



Agenda

**San Mateo Consolidated Fire Department
Board of Directors
Regular Meeting
Wednesday, September 17, 2025 – 5:30 P.M.**

Consistent with Government Code Section 54953, this meeting will be conducted both in person and also via Zoom Teleconferencing to promote public participation at public meetings while maintaining compliance with local, state, and federal guidelines. Department officials and members of the public are invited to attend and give public comment either in person or via teleconference. Comments may also be submitted prior to the meeting by email to: nmorales@smcfire.org

To Attend in-person

2121 S. El Camino Real, Building D, San Mateo

To Observe and Participate via Video Teleconference

Register in advance for this Zoom webinar:

https://us06web.zoom.us/webinar/register/WN_eB1iA6EWS2edN3CYEuiNFg

1. OPENING

- 1.1 Call to Order & Determination of a Quorum
- 1.2 Pledge of Allegiance
- 1.3 Roll Call

2. AGENDA CHANGES

The Chair/Board Member may change the order of the Agenda or request discussion of a Consent Item. A member of the public may request discussion of a Consent Item by emailing the Board Clerk Nicole Morales at nmorales@smcfire.org prior to Public Comment.

3. PUBLIC COMMENT

Public Comment is limited to 15 minutes, with a maximum of three (3) minutes per speaker. If you wish to address the hearing body, please notify the Department as soon as practical by emailing the Board Clerk of the Fire Board at nmorales@smcfire.org. If you are addressing the Board of Directors on a non-agenda item, the Board of Directors may, but is not required to, briefly respond to statements made or questions posed as allowed by the Brown Act (GC 54954.2). The Board of Directors may refer items to staff for attention, or have a matter placed on a future Board of Directors Meeting, for more comprehensive action or report.

4. CONSENT

- [4.1](#) Approval of Fire Board Meeting Minutes from July 9, 2025.
- [4.2](#) Adopt a resolution approving the revised salary schedules to reflect the hourly ranges for per diem and merit classifications within the San Mateo Consolidated Fire Department.

5. NEW BUSINESS

- [5.1](#) First reading of Ordinance No. 2025-003, updating the San Mateo Consolidated Fire Department Fire Code – 1st Public Hearing
- [5.2](#) Adopt a resolution approving the purchase of one new fire aerial ladder truck and two new fire engines from Golden State Fire Apparatus and authorize the Fire Chief to sign the purchase agreement.

6. REPORTS AND ANNOUNCEMENTS

- 6.1 Board Members and Department Management Staff will have an opportunity to make announcements.
- 6.2 Fire Chief Update (*verbal only*)

7. PUBLIC COMMENT ON CLOSED SESSION ITEMS

8. CLOSED SESSION

- 8.1 Conference with Legal Counsel regarding Existing Litigation, Workers' Compensation pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9
Name of Case: Mark Way
Agency Designated Representative(s): Yuliya Shukhat, Senior Risk Management Analyst, Willian D. Ross, Attorney, and Mark R. Peterson, Attorney
- 8.2 Conference with Legal Counsel regarding Existing Litigation, Workers' Compensation pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9
Name of Case: Greg Wilson
Agency Designated Representative(s): Yuliya Shukhat, Senior Risk Management Analyst, Willian D. Ross, Attorney, and Mark R. Peterson, Attorney
- 8.3 Conference with Legal Counsel regarding Existing Litigation, Workers' Compensation pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9
Name of Case: Kojo Williams
Agency Designated Representative(s): Yuliya Shukhat, Senior Risk Management Analyst, Willian D. Ross, Attorney, and Mark R. Peterson, Attorney

9. RETURN FROM CLOSED SESSION

- 9.1 Legal Counsel will provide a report from Closed Session

10. ADJOURNMENT

I, Nicole Morales, Board Clerk of the San Mateo Consolidated Fire Department, hereby declare that the foregoing Agenda was posted in compliance with the Brown Act prior to the meeting date.

In compliance with the Americans with Disability Act, if you need special assistance to participate in this meeting, please contact the Fire Board Clerk at (650) 522-7900 no less than 72 hours prior to the meeting. Notification in advance of the meeting will enable the Fire Department to make reasonable arrangements to ensure accessibility to this meeting.

Copies of documents distributed at the meeting are available in alternative formats upon request. Any writing or documents provided to a majority of the Board regarding any item on this Agenda will be made available for public inspection at the Department Fire Administration Office located at 1040 E. Hillsdale Blvd., Foster City, CA 94404, during normal business hours. In addition, most documents will be posted on the Department's website at <https://www.smcfire.org/meeting-dates-agendas-minutes/>



Meeting Minutes
San Mateo Consolidated Fire Department
Board of Directors Regular Meeting
Wednesday, July 9, 2025 – 5:30 P.M.
Hybrid Remote Teleconference Meeting
2121 S. El Camino Real, Building D, San Mateo

1. OPENING

The meeting was called to order at 5:34 p.m. by Board Chair Mates

1.1. Call to Order & Determination of a Quorum

Legal Counsel Ross stated that Chair Mates is participating remotely under the 'just cause' provisions of Government Code Section 54953(j)(2), as she is engaged in government business outside the Department's jurisdiction.

1.2. Pledge of Allegiance

1.3. Roll Call

Board Members Present: Newsom, Jimenez

Teleconference Board Member: Mates

Board Members Absent: None

2. AGENDA CHANGES

None

3. PUBLIC COMMENT

None

4. CONSENT

Board Chair Mates asked if there was any public comment on this item, which there was not. Board Member Jimenez moved to approve the Consent calendar; Vice Chair Newsom seconded. The Board Secretary took a roll call vote, and the Consent calendar items were approved 3-0.

5. REPORTS AND ANNOUNCEMENTS

There were no announcements from Board members. It was noted that Vice Chair Newsom and CAO Khojikian will be visiting San Mateo's sister city of Toyonaka, Japan, with a potential visit to a local fire department.

Fire Chief Turturici provided a verbal update. Some highlights include:

- Fire Captain Brad Olson was promoted to Battalion Chief, and Firefighter Tony Panacci was promoted to Fire Captain.
- A new fire engine is now in service at Station 14 in Belmont.
- The Department's new ADA-compliant website is live.

- On July 4, crews responded to a small vegetation fire near Central School in Belmont and several nuisance fires; no significant damage occurred.
- Three personnel completed the didactic portion of paramedic school, marking the first Department-sponsored participation in over 25 years.
- Fire season has begun; one crew member is currently deployed to the Madre Fire.
- Call volume is up 7.5% from the same time last year, with approximately 800 additional calls to date.
- The annual Chili Cook-Off is scheduled for September 6 at Central Park in San Mateo.
- No significant changes in illegal fireworks activity were observed over the holiday weekend.

6. ADJOURNMENT

The Board meeting was adjourned at 5:42 p.m.



STAFF REPORT

To: San Mateo Consolidated Fire Department Board of Directors

From: Matt Turturici, Fire Chief

Meeting Date: September 17, 2025

Subject: Salary Schedule- Amendment

RECOMMENDATION

Adopt a resolution to amend the revised salary schedules to reflect the hourly ranges for per diem and merit classifications within the San Mateo Consolidated Fire Department.

BACKGROUND

Title 2 of the California Code of Regulations (CCR) Section 570.5, requires the Fire Board to adopt a full salary schedule as a standalone document detailing the rates of pay for each department classification, and to maintain this salary schedule as a publicly available document for at least five years. The California Public Employees' Retirement System (CalPERS) uses this salary schedule to determine the "compensation earnable" when calculating the monthly pension an individual will receive when they retire. "Compensation earnable" is defined by the Public Employees Retirement Law (PERL) Government Code Sections 20636 and 20636.1 as "pay rates and special compensation as defined in the statutes."

The San Mateo Consolidated Fire Department Merit and Per Diem Salary Schedules are consistent with classifications and pay rates for current employees at this time, and no changes to the various salary ranges are proposed by the adoption of the salary schedules.

The Merit Salary Schedules (Attachments B-K) reflect salary changes previously approved by the Fire Board of Directors by signed Resolution. The Per Diem Salary Schedules (Attachment L and M) reflect salary changes previously approved by the Fire Board of Directors by signed Resolution. Salary schedules are periodically brought to the Fire Board for approval in compliance with CalPERS and PERL. Salary schedules are available to the public on the Department's website.

FISCAL IMPACT

The adopted FY 2025-26 budget assumed these changes.

ATTACHMENTS

- A. Resolution
- B. Revised Merit Salary Schedule – Effective 7/21/24
- C. Revised Merit Salary Schedule – Effective 11/24/24
- D. Merit Salary Schedule – Effective 12/10/23 retroactive
- E. Merit Salary Schedule – Effective 1/24/24 retroactive

- F. Merit Salary Schedule – Effective 7/1/24 retroactive
- G. Merit Salary Schedule – Effective 7/7/24 retroactive
- H. Merit Salary Schedule – Effective 11/24/24
- I. Merit Salary Schedule – Effective 11/24/24 retroactive
- J. Master Salary Schedule-Effective 7/6/25
- K. Master Salary Schedule-Effective 7/20/25
- L. Per Diem Salary Schedule- Effective 7/6/25
- M. Per Diem Salary Schedule – Effective 7/20/25

RESOLUTION NO. RES-2025-

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN MATEO
CONSOLIDATED FIRE DEPARTMENT APPROVING A REVISED SALARY
SCHEDULE TO REFLECT THE HOURLY RANGES FOR PER DIEM AND MERIT
CLASSIFICATIONS**

WHEREAS, Title 2 of the California Code of Regulations (CCR), Section 570.5, requires the Fire Board to adopt a full salary schedule as a standalone document detailing the rates of pay for each department classification, and to maintain this salary schedule as a publicly available document for at least five years; and,

WHEREAS, the Merit and Per Diem Salary Schedules are consistent with classifications and pay rates for current employees at this time, and no changes to the various salary ranges are proposed by the adoption of the salary schedules; and,

WHEREAS, the Merit Salary Schedules (Attachments B-K) reflect salary changes previously approved by the Fire Board of Directors by signed Resolution; and,

WHEREAS, the Per Diem Salary Schedules (Attachment L and M) reflect salary changes previously approved by the Fire Board of Directors by signed Resolution; and,

WHEREAS, salary schedules are available to the public on the Department's website.

NOW, THEREFORE, the Board of Directors of the San Mateo Consolidated Fire Department resolves as follows:

1. Approve the revised salary schedules, attached hereto and incorporated herein, to reflect the hourly ranges for per diem and merit classifications within San Mateo Consolidated Fire Department.

PASSED AND ADOPTED as a resolution of the Board of Directors of the San Mateo Consolidated Fire Department at the regular meeting held on the 17th day of September, 2025 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

Board Secretary

Board President

APPROVED AS TO FORM:

William D. Ross, General Counsel



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/21/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	36.50	2,920.28	6,327.28	75,927.36
			STEP 2	38.15	3,052.46	6,613.67	79,364.04
			STEP 3	39.85	3,187.99	6,907.32	82,887.84
			STEP 4	41.64	3,331.33	7,217.88	86,614.56
			STEP 5	43.53	3,481.92	7,544.15	90,529.80
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	43.76	3,500.82	7,585.10	91,021.20
			STEP 2	45.69	3,656.10	7,921.55	95,058.60
			STEP 3	47.78	3,821.88	8,280.75	99,369.00
			STEP 4	49.96	3,996.50	8,659.09	103,909.08
			STEP 5	52.17	4,173.90	9,043.44	108,521.28
2106	BUSINESS MANAGER	E	STEP 1	59.18	4,733.84	10,256.66	123,079.92
			STEP 2	61.83	4,946.46	10,717.34	128,608.08
			STEP 3	64.62	5,169.42	11,200.40	134,404.80
			STEP 4	67.53	5,401.79	11,703.87	140,446.44
			STEP 5	70.56	5,644.59	12,229.95	146,759.40
5110	CENTRAL SERVICES WORKER	NE	STEP 1	24.32	1,945.68	4,215.64	50,587.68
			STEP 2	25.42	2,033.60	4,406.14	52,873.68
			STEP 3	26.55	2,125.32	4,604.86	55,258.32
			STEP 4	27.75	2,219.86	4,809.69	57,716.28
2410	DEPUTY FIRE CHIEF	E	STEP 1	127.42	10,193.43	22,085.76	265,029.12
			STEP 2	132.98	10,638.58	23,050.26	276,603.12
			STEP 3	138.80	11,103.77	24,058.17	288,698.04
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	73.59	5,887.49	12,756.23	153,074.76
			STEP 2	76.84	6,148.05	13,320.78	159,849.36
			STEP 3	80.39	6,430.92	13,933.66	167,203.92
			STEP 4	84.01	6,719.67	14,559.28	174,711.36
			STEP 5	87.75	7,020.16	15,210.34	182,524.08
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	78.11	6,248.48	13,538.38	162,460.56
			STEP 2	81.62	6,529.54	14,147.33	169,767.96
			STEP 3	85.29	6,823.40	14,784.03	177,408.36
			STEP 4	89.14	7,130.70	15,449.85	185,398.20
			STEP 5	93.15	7,452.08	16,146.17	193,754.04
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/21/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	64.70	5,175.97	11,214.60	134,575.20
			STEP 2	67.61	5,408.88	11,719.23	140,630.76
			STEP 3	70.65	5,652.28	12,246.61	146,959.32
			STEP 4	73.85	5,906.63	12,797.70	153,572.40
			STEP 5	77.15	6,172.43	13,373.60	160,483.20
2085	FIRE BAT CHIEF-40	E	STEP 1	98.77	7,901.87	17,120.72	205,448.64
			STEP 2	103.58	8,286.61	17,954.33	215,451.96
			STEP 3	108.63	8,690.63	18,829.70	225,956.40
			STEP 4	113.93	9,114.49	19,748.06	236,976.72
			STEP 5	119.50	9,559.95	20,713.23	248,558.76
2086	FIRE BAT CHIEF-56	E	STEP 1	70.55	7,901.87	17,120.72	205,448.64
			STEP 2	73.99	8,286.61	17,954.33	215,451.96
			STEP 3	77.59	8,690.63	18,829.70	225,956.40
			STEP 4	81.38	9,114.49	19,748.06	236,976.72
			STEP 5	85.36	9,559.95	20,713.23	248,558.76
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	76.67	6,133.45	13,289.15	159,469.80
			STEP 2	80.10	6,407.87	13,883.72	166,604.64
			STEP 3	83.64	6,690.50	14,496.09	173,953.08
3120	FIRE CAPTAIN-56	NE	STEP 1	54.77	6,133.45	13,289.15	159,469.80
			STEP 2	57.22	6,407.87	13,883.72	166,604.64
			STEP 3	59.74	6,690.50	14,496.09	173,953.08
1150	FIRE CHIEF	E	STEP 1	132.45	10,595.90	22,957.79	275,493.48
			STEP 2	139.07	11,125.70	24,105.69	289,268.28
			STEP 3	146.02	11,681.99	25,310.97	303,731.64
2430	FIRE MARSHAL	E	STEP 1	96.18	7,694.90	16,672.28	200,067.36
			STEP 2	101.00	8,079.64	17,505.89	210,070.68
			STEP 3	106.05	8,483.66	18,381.26	220,575.12
			STEP 4	111.34	8,907.52	19,299.62	231,595.44
			STEP 5	116.92	9,352.98	20,264.79	243,177.48



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/21/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3175	FIRE PREV INSPECT I	NE	STEP 1	58.15	4,652.71	10,080.87	120,970.44
			STEP 2	60.77	4,861.64	10,533.56	126,402.72
			STEP 3	63.55	5,083.47	11,014.19	132,170.28
			STEP 4	66.40	5,312.35	11,510.09	138,121.08
			STEP 5	69.37	5,550.61	12,026.33	144,315.96
3178	FIRE PREV INSPECT II	NE	STEP 1	63.98	5,118.69	11,090.50	133,086.00
			STEP 2	66.87	5,348.74	11,588.94	139,067.28
			STEP 3	69.85	5,588.18	12,107.73	145,292.76
			STEP 4	73.00	5,839.37	12,651.96	151,823.52
			STEP 5	76.28	6,103.45	13,224.15	158,689.80
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	50.07	4,006.02	8,679.72	104,156.64
			STEP 2	52.32	4,186.05	9,069.78	108,837.36
			STEP 3	54.68	4,374.10	9,477.21	113,726.52
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	35.75	4,006.02	8,679.72	104,156.64
			STEP 2	37.38	4,186.05	9,069.78	108,837.36
			STEP 3	39.06	4,374.10	9,477.21	113,726.52
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	56.53	4,521.17	9,795.87	117,550.44
			STEP 1	58.91	4,712.80	10,211.07	122,532.84
			STEP 2	61.49	4,919.86	10,659.70	127,916.40
			STEP 3	64.29	5,143.34	11,143.91	133,726.92
			STEP 4	67.24	5,378.32	11,653.02	139,836.24
			STEP 5	70.26	5,619.86	12,176.37	146,116.44
3140	FIREFIGHTER-56	NE	STEP 0	40.38	4,521.17	9,795.87	117,550.44
			STEP 1	42.08	4,712.80	10,211.07	122,532.84
			STEP 2	43.92	4,919.86	10,659.70	127,916.40
			STEP 3	45.92	5,143.34	11,143.91	133,726.92
			STEP 4	48.03	5,378.32	11,653.02	139,836.24
			STEP 5	50.18	5,619.86	12,176.37	146,116.44
2078	FLEET & FACILITIES MANAGER	E	STEP 1	67.51	5,400.71	11,701.53	140,418.36
			STEP 2	70.64	5,642.68	12,225.81	146,709.72
			STEP 3	73.71	5,896.78	12,776.35	153,316.20
			STEP 4	77.02	6,161.86	13,350.69	160,208.28
			STEP 5	80.50	6,440.15	13,953.65	167,443.80
5106	FLEET MECHANIC I	NE	STEP 1	46.74	3,738.76	8,100.65	97,207.80
			STEP 2	48.83	3,906.51	8,464.10	101,569.20
			STEP 3	51.02	4,081.94	8,844.21	106,130.52
			STEP 4	53.31	4,265.04	9,240.93	110,891.16
			STEP 5	55.68	4,454.72	9,651.90	115,822.80



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/21/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5107	FLEET MECHANIC II	NE	STEP 1	52.54	4,203.63	9,107.87	109,294.44
			STEP 2	54.91	4,393.32	9,518.85	114,226.20
			STEP 3	57.37	4,589.58	9,944.08	119,328.96
			STEP 4	59.96	4,796.80	10,393.06	124,716.72
			STEP 5	62.65	5,011.70	10,858.68	130,304.16
2023	MGMT ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88
2022	MGMT ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
5230	OFFICE ASSISTANT I	NE	STEP 1	26.45	2,115.29	4,583.12	54,997.44
			STEP 2	27.61	2,209.47	4,787.19	57,446.28
			STEP 3	28.82	2,305.80	4,995.89	59,950.68
			STEP 4	30.14	2,411.69	5,225.32	62,703.84
			STEP 5	31.49	2,519.72	5,459.40	65,512.80
5430	OFFICE ASSISTANT II	NE	STEP 1	31.88	2,550.58	5,526.26	66,315.12
			STEP 2	33.48	2,677.76	5,801.82	69,621.84
			STEP 3	35.15	2,811.86	6,092.37	73,108.44
			STEP 4	36.90	2,952.36	6,396.77	76,761.24
			STEP 5	38.75	3,100.29	6,717.30	80,607.60
5460	SYSTEMS ANALYST I	NE	STEP 1	51.68	4,134.23	8,957.49	107,489.88
			STEP 2	53.98	4,319.87	9,359.72	112,316.64
			STEP 3	56.40	4,512.19	9,776.42	117,317.04
			STEP 4	59.00	4,720.07	10,226.82	122,721.84
			STEP 5	61.63	4,930.16	10,682.01	128,184.12
2033	SYSTEMS ANALYST II	E	STEP 1	59.73	4,779.61	10,355.83	124,269.96
			STEP 2	62.42	4,993.13	10,818.45	129,821.40
			STEP 3	65.20	5,218.39	11,306.51	135,678.12
			STEP 4	68.20	5,455.38	11,819.99	141,839.88
			STEP 5	71.23	5,700.58	12,351.25	148,215.00



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 11/24/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	36.50	2,920.28	6,327.28	75,927.36
			STEP 2	38.15	3,052.46	6,613.67	79,364.04
			STEP 3	39.85	3,187.99	6,907.32	82,887.84
			STEP 4	41.64	3,331.33	7,217.88	86,614.56
			STEP 5	43.53	3,481.92	7,544.15	90,529.80
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	43.76	3,500.82	7,585.10	91,021.20
			STEP 2	45.69	3,656.10	7,921.55	95,058.60
			STEP 3	47.78	3,821.88	8,280.75	99,369.00
			STEP 4	49.96	3,996.50	8,659.09	103,909.08
			STEP 5	52.17	4,173.90	9,043.44	108,521.28
2106	BUSINESS MANAGER	E	STEP 1	64.50	5,159.89	11,179.76	134,157.12
			STEP 2	67.40	5,391.65	11,681.90	140,182.80
			STEP 3	70.43	5,634.66	12,208.44	146,501.28
			STEP 4	73.60	5,887.95	12,757.22	153,086.64
			STEP 5	76.91	6,152.61	13,330.65	159,967.80
5110	CENTRAL SERVICES WORKER	NE	STEP 1	24.32	1,945.68	4,215.64	50,587.68
			STEP 2	25.42	2,033.60	4,406.14	52,873.68
			STEP 3	26.55	2,125.32	4,604.86	55,258.32
			STEP 4	27.75	2,219.86	4,809.69	57,716.28
2410	DEPUTY FIRE CHIEF	E	STEP 1	127.42	10,193.43	22,085.76	265,029.12
			STEP 2	132.98	10,638.58	23,050.26	276,603.12
			STEP 3	138.80	11,103.77	24,058.17	288,698.04
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	73.59	5,887.49	12,756.23	153,074.76
			STEP 2	76.84	6,148.05	13,320.78	159,849.36
			STEP 3	80.39	6,430.92	13,933.66	167,203.92
			STEP 4	84.01	6,719.67	14,559.28	174,711.36
			STEP 5	87.75	7,020.16	15,210.34	182,524.08
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	78.11	6,248.48	13,538.38	162,460.56
			STEP 2	81.62	6,529.54	14,147.33	169,767.96
			STEP 3	85.29	6,823.40	14,784.03	177,408.36
			STEP 4	89.14	7,130.70	15,449.85	185,398.20
			STEP 5	93.15	7,452.08	16,146.17	193,754.04
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88



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2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	64.70	5,175.97	11,214.60	134,575.20
			STEP 2	67.61	5,408.88	11,719.23	140,630.76
			STEP 3	70.65	5,652.28	12,246.61	146,959.32
			STEP 4	73.85	5,906.63	12,797.70	153,572.40
			STEP 5	77.15	6,172.43	13,373.60	160,483.20
2085	FIRE BAT CHIEF-40	E	STEP 1	98.77	7,901.87	17,120.72	205,448.64
			STEP 2	103.58	8,286.61	17,954.33	215,451.96
			STEP 3	108.63	8,690.63	18,829.70	225,956.40
			STEP 4	113.93	9,114.49	19,748.06	236,976.72
			STEP 5	119.50	9,559.95	20,713.23	248,558.76
2086	FIRE BAT CHIEF-56	E	STEP 1	70.55	7,901.87	17,120.72	205,448.64
			STEP 2	73.99	8,286.61	17,954.33	215,451.96
			STEP 3	77.59	8,690.63	18,829.70	225,956.40
			STEP 4	81.38	9,114.49	19,748.06	236,976.72
			STEP 5	85.36	9,559.95	20,713.23	248,558.76
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	76.67	6,133.45	13,289.15	159,469.80
			STEP 2	80.10	6,407.87	13,883.72	166,604.64
			STEP 3	83.64	6,690.50	14,496.09	173,953.08
3120	FIRE CAPTAIN-56	NE	STEP 1	54.77	6,133.45	13,289.15	159,469.80
			STEP 2	57.22	6,407.87	13,883.72	166,604.64
			STEP 3	59.74	6,690.50	14,496.09	173,953.08
1150	FIRE CHIEF	E	STEP 1	132.45	10,595.90	22,957.79	275,493.48
			STEP 2	139.07	11,125.70	24,105.69	289,268.28
			STEP 3	146.02	11,681.99	25,310.97	303,731.64
2430	FIRE MARSHAL	E	STEP 1	96.18	7,694.90	16,672.28	200,067.36
			STEP 2	101.00	8,079.64	17,505.89	210,070.68
			STEP 3	106.05	8,483.66	18,381.26	220,575.12
			STEP 4	111.34	8,907.52	19,299.62	231,595.44
			STEP 5	116.92	9,352.98	20,264.79	243,177.48



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3175	FIRE PREV INSPECT I	NE	STEP 1	58.15	4,652.71	10,080.87	120,970.44
			STEP 2	60.77	4,861.64	10,533.56	126,402.72
			STEP 3	63.55	5,083.47	11,014.19	132,170.28
			STEP 4	66.40	5,312.35	11,510.09	138,121.08
			STEP 5	69.37	5,550.61	12,026.33	144,315.96
3178	FIRE PREV INSPECT II	NE	STEP 1	63.98	5,118.69	11,090.50	133,086.00
			STEP 2	66.87	5,348.74	11,588.94	139,067.28
			STEP 3	69.85	5,588.18	12,107.73	145,292.76
			STEP 4	73.00	5,839.37	12,651.96	151,823.52
			STEP 5	76.28	6,103.45	13,224.15	158,689.80
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	50.07	4,006.02	8,679.72	104,156.64
			STEP 2	52.32	4,186.05	9,069.78	108,837.36
			STEP 3	54.68	4,374.10	9,477.21	113,726.52
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	35.75	4,006.02	8,679.72	104,156.64
			STEP 2	37.38	4,186.05	9,069.78	108,837.36
			STEP 3	39.06	4,374.10	9,477.21	113,726.52
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	56.53	4,521.17	9,795.87	117,550.44
			STEP 1	58.91	4,712.80	10,211.07	122,532.84
			STEP 2	61.49	4,919.86	10,659.70	127,916.40
			STEP 3	64.29	5,143.34	11,143.91	133,726.92
			STEP 4	67.24	5,378.32	11,653.02	139,836.24
			STEP 5	70.26	5,619.86	12,176.37	146,116.44
3140	FIREFIGHTER-56	NE	STEP 0	40.38	4,521.17	9,795.87	117,550.44
			STEP 1	42.08	4,712.80	10,211.07	122,532.84
			STEP 2	43.92	4,919.86	10,659.70	127,916.40
			STEP 3	45.92	5,143.34	11,143.91	133,726.92
			STEP 4	48.03	5,378.32	11,653.02	139,836.24
			STEP 5	50.18	5,619.86	12,176.37	146,116.44
2078	FLEET & FACILITIES MANAGER	E	STEP 1	67.51	5,400.71	11,701.53	140,418.36
			STEP 2	70.64	5,642.68	12,225.81	146,709.72
			STEP 3	73.71	5,896.78	12,776.35	153,316.20
			STEP 4	77.02	6,161.86	13,350.69	160,208.28
			STEP 5	80.50	6,440.15	13,953.65	167,443.80
5106	FLEET MECHANIC I	NE	STEP 1	46.74	3,738.76	8,100.65	97,207.80
			STEP 2	48.83	3,906.51	8,464.10	101,569.20
			STEP 3	51.02	4,081.94	8,844.21	106,130.52
			STEP 4	53.31	4,265.04	9,240.93	110,891.16
			STEP 5	55.68	4,454.72	9,651.90	115,822.80



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5107	FLEET MECHANIC II	NE	STEP 1	52.54	4,203.63	9,107.87	109,294.44
			STEP 2	54.91	4,393.32	9,518.85	114,226.20
			STEP 3	57.37	4,589.58	9,944.08	119,328.96
			STEP 4	59.96	4,796.80	10,393.06	124,716.72
			STEP 5	62.65	5,011.70	10,858.68	130,304.16
5033	MGMT ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88
2022	MGMT ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
5230	OFFICE ASSISTANT I	NE	STEP 1	26.45	2,115.29	4,583.12	54,997.44
			STEP 2	27.61	2,209.47	4,787.19	57,446.28
			STEP 3	28.82	2,305.80	4,995.89	59,950.68
			STEP 4	30.14	2,411.69	5,225.32	62,703.84
			STEP 5	31.49	2,519.72	5,459.40	65,512.80
5430	OFFICE ASSISTANT II	NE	STEP 1	31.88	2,550.58	5,526.26	66,315.12
			STEP 2	33.48	2,677.76	5,801.82	69,621.84
			STEP 3	35.15	2,811.86	6,092.37	73,108.44
			STEP 4	36.90	2,952.36	6,396.77	76,761.24
			STEP 5	38.75	3,100.29	6,717.30	80,607.60
5460	SYSTEMS ANALYST I	NE	STEP 1	51.68	4,134.23	8,957.49	107,489.88
			STEP 2	53.98	4,319.87	9,359.72	112,316.64
			STEP 3	56.40	4,512.19	9,776.42	117,317.04
			STEP 4	59.00	4,720.07	10,226.82	122,721.84
			STEP 5	61.63	4,930.16	10,682.01	128,184.12
2033	SYSTEMS ANALYST II	E	STEP 1	59.73	4,779.61	10,355.83	124,269.96
			STEP 2	62.42	4,993.13	10,818.45	129,821.40
			STEP 3	65.20	5,218.39	11,306.51	135,678.12
			STEP 4	68.20	5,455.38	11,819.99	141,839.88
			STEP 5	71.23	5,700.58	12,351.25	148,215.00



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5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	40.52	3,241.50	7,023.24	84,278.88
			STEP 2	42.31	3,385.28	7,334.77	88,017.24
			STEP 3	44.24	3,538.78	7,667.36	92,008.32
			STEP 4	46.26	3,700.47	8,017.68	96,212.16
			STEP 5	48.31	3,864.72	8,373.56	100,482.72
2106	BUSINESS MANAGER	E	STEP 1	59.18	4,733.84	10,256.66	123,079.92
			STEP 2	61.83	4,946.46	10,717.34	128,608.08
			STEP 3	64.62	5,169.42	11,200.40	134,404.80
			STEP 4	67.53	5,401.79	11,703.87	140,446.44
			STEP 5	70.56	5,644.59	12,229.95	146,759.40
5110	CENTRAL SERVICES WORKER	NE	STEP 1	23.38	1,870.85	4,053.50	48,642.00
			STEP 2	24.44	1,955.39	4,236.67	50,840.04
			STEP 3	25.53	2,043.58	4,427.75	53,133.00
			STEP 4	26.68	2,134.48	4,624.70	55,496.40
2410	DEPUTY FIRE CHIEF	E	STEP 1	120.05	9,604.22	20,809.15	249,709.80
			STEP 2	125.45	10,036.41	21,745.56	260,946.72
			STEP 3	131.10	10,488.05	22,724.11	272,689.32
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	71.45	5,716.01	12,384.69	148,616.28
			STEP 2	74.60	5,968.98	12,932.80	155,193.60
			STEP 3	78.05	6,243.61	13,527.83	162,333.96
			STEP 4	81.56	6,523.95	14,135.22	169,622.64
			STEP 5	85.19	6,815.69	14,767.32	177,207.84
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	71.66	5,732.55	12,420.53	149,046.36
			STEP 2	74.88	5,990.40	12,979.20	155,750.40
			STEP 3	78.25	6,260.00	13,563.33	162,759.96
			STEP 4	81.78	6,541.92	14,174.17	170,090.04
			STEP 5	85.46	6,836.77	14,813.00	177,756.00
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	59.36	4,748.59	10,288.62	123,463.44
			STEP 2	62.03	4,962.27	10,751.59	129,019.08
			STEP 3	64.82	5,185.58	11,235.42	134,825.04
			STEP 4	67.75	5,418.93	11,741.01	140,892.12
			STEP 5	70.78	5,662.78	12,269.36	147,232.32



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5345	EMERGENCY SERVICES SPECIALIST	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
2085	FIRE BAT CHIEF-40	E	STEP 1	92.87	7,429.44	16,097.11	193,165.32
			STEP 2	97.45	7,795.86	16,891.03	202,692.36
			STEP 3	102.26	8,180.64	17,724.71	212,696.52
			STEP 4	107.30	8,584.31	18,599.34	223,192.08
			STEP 5	112.61	9,008.56	19,518.55	234,222.60
2086	FIRE BAT CHIEF-56	E	STEP 1	66.33	7,429.44	16,097.11	193,165.32
			STEP 2	69.61	7,795.86	16,891.03	202,692.36
			STEP 3	73.04	8,180.64	17,724.71	212,696.52
			STEP 4	76.65	8,584.31	18,599.34	223,192.08
			STEP 5	80.43	9,008.56	19,518.55	234,222.60
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	74.44	5,954.81	12,902.09	154,825.08
			STEP 2	77.77	6,221.23	13,479.34	161,752.08
			STEP 3	81.20	6,495.63	14,073.87	168,886.44
3120	FIRE CAPTAIN-56	NE	STEP 1	53.17	5,954.81	12,902.09	154,825.08
			STEP 2	55.55	6,221.23	13,479.34	161,752.08
			STEP 3	58.00	6,495.63	14,073.87	168,886.44
1150	FIRE CHIEF	E	STEP 1	133.73	10,698.78	23,180.68	278,168.22
			STEP 2	140.42	11,233.72	24,339.72	292,076.68
			STEP 3	147.44	11,795.40	25,556.71	306,680.52
2430	FIRE MARSHAL	E	STEP 1	91.60	7,328.47	15,878.36	190,540.32
			STEP 2	96.19	7,694.90	16,672.28	200,067.36
			STEP 3	101.00	8,079.67	17,505.96	210,071.52
			STEP 4	106.04	8,483.35	18,380.59	220,567.08
			STEP 5	111.35	8,907.60	19,299.80	231,597.60
3175	FIRE PREV INSPECT I	NE	STEP 1	56.46	4,517.19	9,787.25	117,447.00
			STEP 2	59.00	4,720.04	10,226.76	122,721.12
			STEP 3	61.70	4,935.41	10,693.39	128,320.68
			STEP 4	64.47	5,157.62	11,174.84	134,098.08
			STEP 5	67.35	5,388.95	11,676.05	140,112.60



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3178	FIRE PREV INSPECT II	NE	STEP 1	62.12	4,969.61	10,767.48	129,209.76
			STEP 2	64.92	5,192.95	11,251.40	135,016.80
			STEP 3	67.82	5,425.42	11,755.08	141,060.96
			STEP 4	70.87	5,669.29	12,283.46	147,401.52
			STEP 5	74.06	5,925.68	12,838.98	154,067.76
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	48.61	3,889.34	8,426.91	101,122.92
			STEP 2	50.80	4,064.13	8,805.61	105,667.32
			STEP 3	53.09	4,246.69	9,201.17	110,414.04
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	34.71	3,889.34	8,426.91	101,122.92
			STEP 2	36.29	4,064.13	8,805.61	105,667.32
			STEP 3	37.92	4,246.69	9,201.17	110,414.04
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	54.88	4,389.48	9,510.55	114,126.60
			STEP 1	57.19	4,575.54	9,913.66	118,963.92
			STEP 2	59.70	4,776.56	10,349.22	124,190.64
			STEP 3	62.42	4,993.54	10,819.33	129,831.96
			STEP 4	65.28	5,221.67	11,313.61	135,763.32
			STEP 5	68.21	5,456.18	11,821.72	141,860.64
3140	FIREFIGHTER-56	NE	STEP 0	39.20	4,389.48	9,510.55	114,126.60
			STEP 1	40.85	4,575.54	9,913.66	118,963.92
			STEP 2	42.64	4,776.56	10,349.22	124,190.64
			STEP 3	44.58	4,993.54	10,819.33	129,831.96
			STEP 4	46.63	5,221.67	11,313.61	135,763.32
			STEP 5	48.72	5,456.18	11,821.72	141,860.64
2078	FLEET & FACILITIES MANAGER	E	STEP 1	63.09	5,047.39	10,936.01	131,232.12
			STEP 2	66.02	5,273.53	11,425.99	137,111.88
			STEP 3	68.89	5,511.00	11,940.51	143,286.12
			STEP 4	71.98	5,758.74	12,477.28	149,727.36
			STEP 5	75.23	6,018.83	13,040.79	156,489.48
5105	FLEET AND FACILITIES TECH	NE	STEP 1	41.86	3,348.40	7,254.86	87,058.32
			STEP 2	43.74	3,499.08	7,581.33	90,975.96
			STEP 3	45.71	3,656.53	7,922.49	95,069.88
			STEP 4	47.77	3,821.08	8,279.00	99,348.00
			STEP 5	49.92	3,993.02	8,651.55	103,818.60
2023	MGMT ANALYST I	NE	STEP 1	43.87	3,509.47	7,603.85	91,246.20
			STEP 2	45.86	3,668.84	7,949.15	95,389.80
			STEP 3	47.89	3,831.36	8,301.28	99,615.36
			STEP 4	50.06	4,004.37	8,676.14	104,113.68
			STEP 5	52.28	4,182.63	9,062.37	108,748.44



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 12/10/2023 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
2022	MGMT ANALYST II	E	STEP 1	48.16	3,853.39	8,349.02	100,188.24
			STEP 2	50.36	4,028.50	8,728.41	104,740.92
			STEP 3	52.60	4,207.80	9,116.90	109,402.80
			STEP 4	54.96	4,397.58	9,528.08	114,336.96
			STEP 5	57.42	4,593.64	9,952.89	119,434.68
5230	OFFICE ASSISTANT I	NE	STEP 1	25.43	2,033.93	4,406.85	52,882.20
			STEP 2	26.55	2,124.49	4,603.07	55,236.84
			STEP 3	27.71	2,217.11	4,803.74	57,644.88
			STEP 4	28.98	2,318.93	5,024.35	60,292.20
			STEP 5	30.28	2,422.81	5,249.42	62,993.04
5430	OFFICE ASSISTANT II	NE	STEP 1	30.65	2,452.48	5,313.71	63,764.52
			STEP 2	32.19	2,574.77	5,578.67	66,944.04
			STEP 3	33.80	2,703.72	5,858.05	70,296.60
			STEP 4	35.48	2,838.80	6,150.74	73,808.88
			STEP 5	37.26	2,981.05	6,458.94	77,507.28
5460	SYSTEMS ANALYST I	NE	STEP 1	48.53	3,881.90	8,410.79	100,929.48
			STEP 2	50.69	4,056.22	8,788.47	105,461.64
			STEP 3	52.96	4,236.80	9,179.74	110,156.88
			STEP 4	55.40	4,431.99	9,602.65	115,231.80
			STEP 5	57.87	4,629.26	10,030.06	120,360.72
2033	SYSTEMS ANALYST II	E	STEP 1	56.08	4,487.90	9,723.78	116,685.36
			STEP 2	58.61	4,688.39	10,158.17	121,898.04
			STEP 3	61.22	4,899.90	10,616.44	127,397.28
			STEP 4	64.04	5,122.42	11,098.58	133,182.96
			STEP 5	66.88	5,352.66	11,597.42	139,169.04



San Mateo Consolidated Fire Department Merit Salary Schedule

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	40.52	3,241.50	7,023.24	84,278.88
			STEP 2	42.31	3,385.28	7,334.77	88,017.24
			STEP 3	44.24	3,538.78	7,667.36	92,008.32
			STEP 4	46.26	3,700.47	8,017.68	96,212.16
			STEP 5	48.31	3,864.72	8,373.56	100,482.72
2106	BUSINESS MANAGER	E	STEP 1	59.18	4,733.84	10,256.66	123,079.92
			STEP 2	61.83	4,946.46	10,717.34	128,608.08
			STEP 3	64.62	5,169.42	11,200.40	134,404.80
			STEP 4	67.53	5,401.79	11,703.87	140,446.44
			STEP 5	70.56	5,644.59	12,229.95	146,759.40
5110	CENTRAL SERVICES WORKER	NE	STEP 1	23.38	1,870.85	4,053.50	48,642.00
			STEP 2	24.44	1,955.39	4,236.67	50,840.04
			STEP 3	25.53	2,043.58	4,427.75	53,133.00
			STEP 4	26.68	2,134.48	4,624.70	55,496.40
2410	DEPUTY FIRE CHIEF	E	STEP 1	120.05	9,604.22	20,809.15	249,709.80
			STEP 2	125.45	10,036.41	21,745.56	260,946.72
			STEP 3	131.10	10,488.05	22,724.11	272,689.32
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	71.45	5,716.01	12,384.69	148,616.28
			STEP 2	74.60	5,968.98	12,932.80	155,193.60
			STEP 3	78.05	6,243.61	13,527.83	162,333.96
			STEP 4	81.56	6,523.95	14,135.22	169,622.64
			STEP 5	85.19	6,815.69	14,767.32	177,207.84
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	71.66	5,732.55	12,420.53	149,046.36
			STEP 2	74.88	5,990.40	12,979.20	155,750.40
			STEP 3	78.25	6,260.00	13,563.33	162,759.96
			STEP 4	81.78	6,541.92	14,174.17	170,090.04
			STEP 5	85.46	6,836.77	14,813.00	177,756.00
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	59.36	4,748.59	10,288.62	123,463.44
			STEP 2	62.03	4,962.27	10,751.59	129,019.08
			STEP 3	64.82	5,185.58	11,235.42	134,825.04
			STEP 4	67.75	5,418.93	11,741.01	140,892.12
			STEP 5	70.78	5,662.78	12,269.36	147,232.32



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 01/24/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5345	EMERGENCY SERVICES SPECIALIST	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
2085	FIRE BAT CHIEF-40	E	STEP 1	92.87	7,429.44	16,097.11	193,165.32
			STEP 2	97.45	7,795.86	16,891.03	202,692.36
			STEP 3	102.26	8,180.64	17,724.71	212,696.52
			STEP 4	107.30	8,584.31	18,599.34	223,192.08
			STEP 5	112.61	9,008.56	19,518.55	234,222.60
2086	FIRE BAT CHIEF-56	E	STEP 1	66.33	7,429.44	16,097.11	193,165.32
			STEP 2	69.61	7,795.86	16,891.03	202,692.36
			STEP 3	73.04	8,180.64	17,724.71	212,696.52
			STEP 4	76.65	8,584.31	18,599.34	223,192.08
			STEP 5	80.43	9,008.56	19,518.55	234,222.60
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	74.44	5,954.81	12,902.09	154,825.08
			STEP 2	77.77	6,221.23	13,479.34	161,752.08
			STEP 3	81.20	6,495.63	14,073.87	168,886.44
3120	FIRE CAPTAIN-56	NE	STEP 1	53.17	5,954.81	12,902.09	154,825.08
			STEP 2	55.55	6,221.23	13,479.34	161,752.08
			STEP 3	58.00	6,495.63	14,073.87	168,886.44
1150	FIRE CHIEF	E	STEP 1	133.73	10,698.78	23,180.68	278,168.22
			STEP 2	140.42	11,233.72	24,339.72	292,076.68
			STEP 3	147.44	11,795.40	25,556.71	306,680.52
2430	FIRE MARSHAL	E	STEP 1	91.60	7,328.47	15,878.36	190,540.32
			STEP 2	96.19	7,694.90	16,672.28	200,067.36
			STEP 3	101.00	8,079.67	17,505.96	210,071.52
			STEP 4	106.04	8,483.35	18,380.59	220,567.08
			STEP 5	111.35	8,907.60	19,299.80	231,597.60
3175	FIRE PREV INSPECT I	NE	STEP 1	56.46	4,517.19	9,787.25	117,447.00
			STEP 2	59.00	4,720.04	10,226.76	122,721.12
			STEP 3	61.70	4,935.41	10,693.39	128,320.68
			STEP 4	64.47	5,157.62	11,174.84	134,098.08
			STEP 5	67.35	5,388.95	11,676.05	140,112.60



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 01/24/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3178	FIRE PREV INSPECT II	NE	STEP 1	62.12	4,969.61	10,767.48	129,209.76
			STEP 2	64.92	5,192.95	11,251.40	135,016.80
			STEP 3	67.82	5,425.42	11,755.08	141,060.96
			STEP 4	70.87	5,669.29	12,283.46	147,401.52
			STEP 5	74.06	5,925.68	12,838.98	154,067.76
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	48.61	3,889.34	8,426.91	101,122.92
			STEP 2	50.80	4,064.13	8,805.61	105,667.32
			STEP 3	53.09	4,246.69	9,201.17	110,414.04
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	34.71	3,889.34	8,426.91	101,122.92
			STEP 2	36.29	4,064.13	8,805.61	105,667.32
			STEP 3	37.92	4,246.69	9,201.17	110,414.04
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	54.88	4,389.48	9,510.55	114,126.60
			STEP 1	57.19	4,575.54	9,913.66	118,963.92
			STEP 2	59.70	4,776.56	10,349.22	124,190.64
			STEP 3	62.42	4,993.54	10,819.33	129,831.96
			STEP 4	65.28	5,221.67	11,313.61	135,763.32
			STEP 5	68.21	5,456.18	11,821.72	141,860.64
3140	FIREFIGHTER-56	NE	STEP 0	39.20	4,389.48	9,510.55	114,126.60
			STEP 1	40.85	4,575.54	9,913.66	118,963.92
			STEP 2	42.64	4,776.56	10,349.22	124,190.64
			STEP 3	44.58	4,993.54	10,819.33	129,831.96
			STEP 4	46.63	5,221.67	11,313.61	135,763.32
			STEP 5	48.72	5,456.18	11,821.72	141,860.64
2078	FLEET & FACILITIES MANAGER	E	STEP 1	63.09	5,047.39	10,936.01	131,232.12
			STEP 2	66.02	5,273.53	11,425.99	137,111.88
			STEP 3	68.89	5,511.00	11,940.51	143,286.12
			STEP 4	71.98	5,758.74	12,477.28	149,727.36
			STEP 5	75.23	6,018.83	13,040.79	156,489.48
2023	MGMT ANALYST I	NE	STEP 1	43.87	3,509.47	7,603.85	91,246.20
			STEP 2	45.86	3,668.84	7,949.15	95,389.80
			STEP 3	47.89	3,831.36	8,301.28	99,615.36
			STEP 4	50.06	4,004.37	8,676.14	104,113.68
			STEP 5	52.28	4,182.63	9,062.37	108,748.44
2022	MGMT ANALYST II	E	STEP 1	48.16	3,853.39	8,349.02	100,188.24
			STEP 2	50.36	4,028.50	8,728.41	104,740.92
			STEP 3	52.60	4,207.80	9,116.90	109,402.80
			STEP 4	54.96	4,397.58	9,528.08	114,336.96
			STEP 5	57.42	4,593.64	9,952.89	119,434.68



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 01/24/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5230	OFFICE ASSISTANT I	NE	STEP 1	25.43	2,033.93	4,406.85	52,882.20
			STEP 2	26.55	2,124.49	4,603.07	55,236.84
			STEP 3	27.71	2,217.11	4,803.74	57,644.88
			STEP 4	28.98	2,318.93	5,024.35	60,292.20
			STEP 5	30.28	2,422.81	5,249.42	62,993.04
5430	OFFICE ASSISTANT II	NE	STEP 1	30.65	2,452.48	5,313.71	63,764.52
			STEP 2	32.19	2,574.77	5,578.67	66,944.04
			STEP 3	33.80	2,703.72	5,858.05	70,296.60
			STEP 4	35.48	2,838.80	6,150.74	73,808.88
			STEP 5	37.26	2,981.05	6,458.94	77,507.28
5460	SYSTEMS ANALYST I	NE	STEP 1	48.53	3,881.90	8,410.79	100,929.48
			STEP 2	50.69	4,056.22	8,788.47	105,461.64
			STEP 3	52.96	4,236.80	9,179.74	110,156.88
			STEP 4	55.40	4,431.99	9,602.65	115,231.80
			STEP 5	57.87	4,629.26	10,030.06	120,360.72
2033	SYSTEMS ANALYST II	E	STEP 1	56.08	4,487.90	9,723.78	116,685.36
			STEP 2	58.61	4,688.39	10,158.17	121,898.04
			STEP 3	61.22	4,899.90	10,616.44	127,397.28
			STEP 4	64.04	5,122.42	11,098.58	133,182.96
			STEP 5	66.88	5,352.66	11,597.42	139,169.04



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/01/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	40.52	3,241.50	7,023.24	84,278.88
			STEP 2	42.31	3,385.28	7,334.77	88,017.24
			STEP 3	44.24	3,538.78	7,667.36	92,008.32
			STEP 4	46.26	3,700.47	8,017.68	96,212.16
			STEP 5	48.31	3,864.72	8,373.56	100,482.72
2106	BUSINESS MANAGER	E	STEP 1	59.18	4,733.84	10,256.66	123,079.92
			STEP 2	61.83	4,946.46	10,717.34	128,608.08
			STEP 3	64.62	5,169.42	11,200.40	134,404.80
			STEP 4	67.53	5,401.79	11,703.87	140,446.44
			STEP 5	70.56	5,644.59	12,229.95	146,759.40
5110	CENTRAL SERVICES WORKER	NE	STEP 1	23.38	1,870.85	4,053.50	48,642.00
			STEP 2	24.44	1,955.39	4,236.67	50,840.04
			STEP 3	25.53	2,043.58	4,427.75	53,133.00
			STEP 4	26.68	2,134.48	4,624.70	55,496.40
2410	DEPUTY FIRE CHIEF	E	STEP 1	120.05	9,604.22	20,809.15	249,709.80
			STEP 2	125.45	10,036.41	21,745.56	260,946.72
			STEP 3	131.10	10,488.05	22,724.11	272,689.32
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	71.45	5,716.01	12,384.69	148,616.28
			STEP 2	74.60	5,968.98	12,932.80	155,193.60
			STEP 3	78.05	6,243.61	13,527.83	162,333.96
			STEP 4	81.56	6,523.95	14,135.22	169,622.64
			STEP 5	85.19	6,815.69	14,767.32	177,207.84
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	71.66	5,732.55	12,420.53	149,046.36
			STEP 2	74.88	5,990.40	12,979.20	155,750.40
			STEP 3	78.25	6,260.00	13,563.33	162,759.96
			STEP 4	81.78	6,541.92	14,174.17	170,090.04
			STEP 5	85.46	6,836.77	14,813.00	177,756.00
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	59.36	4,748.59	10,288.62	123,463.44
			STEP 2	62.03	4,962.27	10,751.59	129,019.08
			STEP 3	64.82	5,185.58	11,235.42	134,825.04
			STEP 4	67.75	5,418.93	11,741.01	140,892.12
			STEP 5	70.78	5,662.78	12,269.36	147,232.32



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/01/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5345	EMERGENCY SERVICES SPECIALIST	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
2085	FIRE BAT CHIEF-40	E	STEP 1	92.87	7,429.44	16,097.11	193,165.32
			STEP 2	97.45	7,795.86	16,891.03	202,692.36
			STEP 3	102.26	8,180.64	17,724.71	212,696.52
			STEP 4	107.30	8,584.31	18,599.34	223,192.08
			STEP 5	112.61	9,008.56	19,518.55	234,222.60
2086	FIRE BAT CHIEF-56	E	STEP 1	66.33	7,429.44	16,097.11	193,165.32
			STEP 2	69.61	7,795.86	16,891.03	202,692.36
			STEP 3	73.04	8,180.64	17,724.71	212,696.52
			STEP 4	76.65	8,584.31	18,599.34	223,192.08
			STEP 5	80.43	9,008.56	19,518.55	234,222.60
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	74.44	5,954.81	12,902.09	154,825.08
			STEP 2	77.77	6,221.23	13,479.34	161,752.08
			STEP 3	81.20	6,495.63	14,073.87	168,886.44
3120	FIRE CAPTAIN-56	NE	STEP 1	53.17	5,954.81	12,902.09	154,825.08
			STEP 2	55.55	6,221.23	13,479.34	161,752.08
			STEP 3	58.00	6,495.63	14,073.87	168,886.44
1150	FIRE CHIEF	E	STEP 1	133.73	10,698.78	23,180.68	278,168.22
			STEP 2	140.42	11,233.72	24,339.72	292,076.68
			STEP 3	147.44	11,795.40	25,556.71	306,680.52
2430	FIRE MARSHAL	E	STEP 1	91.60	7,328.47	15,878.36	190,540.32
			STEP 2	96.19	7,694.90	16,672.28	200,067.36
			STEP 3	101.00	8,079.67	17,505.96	210,071.52
			STEP 4	106.04	8,483.35	18,380.59	220,567.08
			STEP 5	111.35	8,907.60	19,299.80	231,597.60
3175	FIRE PREV INSPECT I	NE	STEP 1	56.46	4,517.19	9,787.25	117,447.00
			STEP 2	59.00	4,720.04	10,226.76	122,721.12
			STEP 3	61.70	4,935.41	10,693.39	128,320.68
			STEP 4	64.47	5,157.62	11,174.84	134,098.08
			STEP 5	67.35	5,388.95	11,676.05	140,112.60



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/01/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3178	FIRE PREV INSPECT II	NE	STEP 1	62.12	4,969.61	10,767.48	129,209.76
			STEP 2	64.92	5,192.95	11,251.40	135,016.80
			STEP 3	67.82	5,425.42	11,755.08	141,060.96
			STEP 4	70.87	5,669.29	12,283.46	147,401.52
			STEP 5	74.06	5,925.68	12,838.98	154,067.76
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	48.61	3,889.34	8,426.91	101,122.92
			STEP 2	50.80	4,064.13	8,805.61	105,667.32
			STEP 3	53.09	4,246.69	9,201.17	110,414.04
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	34.71	3,889.34	8,426.91	101,122.92
			STEP 2	36.29	4,064.13	8,805.61	105,667.32
			STEP 3	37.92	4,246.69	9,201.17	110,414.04
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	54.88	4,389.48	9,510.55	114,126.60
			STEP 1	57.19	4,575.54	9,913.66	118,963.92
			STEP 2	59.70	4,776.56	10,349.22	124,190.64
			STEP 3	62.42	4,993.54	10,819.33	129,831.96
			STEP 4	65.28	5,221.67	11,313.61	135,763.32
			STEP 5	68.21	5,456.18	11,821.72	141,860.64
3140	FIREFIGHTER-56	NE	STEP 0	39.20	4,389.48	9,510.55	114,126.60
			STEP 1	40.85	4,575.54	9,913.66	118,963.92
			STEP 2	42.64	4,776.56	10,349.22	124,190.64
			STEP 3	44.58	4,993.54	10,819.33	129,831.96
			STEP 4	46.63	5,221.67	11,313.61	135,763.32
			STEP 5	48.72	5,456.18	11,821.72	141,860.64
2078	FLEET & FACILITIES MANAGER	E	STEP 1	63.09	5,047.39	10,936.01	131,232.12
			STEP 2	66.02	5,273.53	11,425.99	137,111.88
			STEP 3	68.89	5,511.00	11,940.51	143,286.12
			STEP 4	71.98	5,758.74	12,477.28	149,727.36
			STEP 5	75.23	6,018.83	13,040.79	156,489.48
5106	FLEET MECHANIC I	NE	STEP 1	44.94	3,594.96	7,789.09	93,469.08
			STEP 2	46.95	3,756.26	8,138.56	97,662.72
			STEP 3	49.06	3,924.95	8,504.05	102,048.60
			STEP 4	51.26	4,101.00	8,885.51	106,626.12
			STEP 5	53.54	4,283.39	9,280.67	111,368.04
5107	FLEET MECHANIC II	NE	STEP 1	50.52	4,041.96	8,757.57	105,090.84
			STEP 2	52.80	4,224.34	9,152.74	109,832.88
			STEP 3	55.16	4,413.06	9,561.62	114,739.44
			STEP 4	57.65	4,612.31	9,993.33	119,919.96
			STEP 5	60.24	4,818.94	10,441.04	125,292.48



San Mateo Consolidated Fire Department

Merit Salary Schedule

Effective Date: 07/01/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
2023	MGMT ANALYST I	NE	STEP 1	43.87	3,509.47	7,603.85	91,246.20
			STEP 2	45.86	3,668.84	7,949.15	95,389.80
			STEP 3	47.89	3,831.36	8,301.28	99,615.36
			STEP 4	50.06	4,004.37	8,676.14	104,113.68
			STEP 5	52.28	4,182.63	9,062.37	108,748.44
2022	MGMT ANALYST II	E	STEP 1	48.16	3,853.39	8,349.02	100,188.24
			STEP 2	50.36	4,028.50	8,728.41	104,740.92
			STEP 3	52.60	4,207.80	9,116.90	109,402.80
			STEP 4	54.96	4,397.58	9,528.08	114,336.96
			STEP 5	57.42	4,593.64	9,952.89	119,434.68
5230	OFFICE ASSISTANT I	NE	STEP 1	25.43	2,033.93	4,406.85	52,882.20
			STEP 2	26.55	2,124.49	4,603.07	55,236.84
			STEP 3	27.71	2,217.11	4,803.74	57,644.88
			STEP 4	28.98	2,318.93	5,024.35	60,292.20
			STEP 5	30.28	2,422.81	5,249.42	62,993.04
5430	OFFICE ASSISTANT II	NE	STEP 1	30.65	2,452.48	5,313.71	63,764.52
			STEP 2	32.19	2,574.77	5,578.67	66,944.04
			STEP 3	33.80	2,703.72	5,858.05	70,296.60
			STEP 4	35.48	2,838.80	6,150.74	73,808.88
			STEP 5	37.26	2,981.05	6,458.94	77,507.28
5460	SYSTEMS ANALYST I	NE	STEP 1	48.53	3,881.90	8,410.79	100,929.48
			STEP 2	50.69	4,056.22	8,788.47	105,461.64
			STEP 3	52.96	4,236.80	9,179.74	110,156.88
			STEP 4	55.40	4,431.99	9,602.65	115,231.80
			STEP 5	57.87	4,629.26	10,030.06	120,360.72
2033	SYSTEMS ANALYST II	E	STEP 1	56.08	4,487.90	9,723.78	116,685.36
			STEP 2	58.61	4,688.39	10,158.17	121,898.04
			STEP 3	61.22	4,899.90	10,616.44	127,397.28
			STEP 4	64.04	5,122.42	11,098.58	133,182.96
			STEP 5	66.88	5,352.66	11,597.42	139,169.04



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Effective Date: 07/07/2024 *

JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	40.52	3,241.50	7,023.24	84,278.88
			STEP 2	42.31	3,385.28	7,334.77	88,017.24
			STEP 3	44.24	3,538.78	7,667.36	92,008.32
			STEP 4	46.26	3,700.47	8,017.68	96,212.16
			STEP 5	48.31	3,864.72	8,373.56	100,482.72
2106	BUSINESS MANAGER	E	STEP 1	59.18	4,733.84	10,256.66	123,079.92
			STEP 2	61.83	4,946.46	10,717.34	128,608.08
			STEP 3	64.62	5,169.42	11,200.40	134,404.80
			STEP 4	67.53	5,401.79	11,703.87	140,446.44
			STEP 5	70.56	5,644.59	12,229.95	146,759.40
5110	CENTRAL SERVICES WORKER	NE	STEP 1	23.38	1,870.85	4,053.50	48,642.00
			STEP 2	24.44	1,955.39	4,236.67	50,840.04
			STEP 3	25.53	2,043.58	4,427.75	53,133.00
			STEP 4	26.68	2,134.48	4,624.70	55,496.40
2410	DEPUTY FIRE CHIEF	E	STEP 1	127.42	10,193.43	22,085.76	265,029.12
			STEP 2	132.98	10,638.58	23,050.26	276,603.12
			STEP 3	138.80	11,103.77	24,058.17	288,698.04
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	73.59	5,887.49	12,756.23	153,074.76
			STEP 2	76.84	6,148.05	13,320.78	159,849.36
			STEP 3	80.39	6,430.92	13,933.66	167,203.92
			STEP 4	84.01	6,719.67	14,559.28	174,711.36
			STEP 5	87.75	7,020.16	15,210.34	182,524.08
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	71.66	5,732.55	12,420.53	149,046.36
			STEP 2	74.88	5,990.40	12,979.20	155,750.40
			STEP 3	78.25	6,260.00	13,563.33	162,759.96
			STEP 4	81.78	6,541.92	14,174.17	170,090.04
			STEP 5	85.46	6,836.77	14,813.00	177,756.00
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	59.36	4,748.59	10,288.62	123,463.44
			STEP 2	62.03	4,962.27	10,751.59	129,019.08
			STEP 3	64.82	5,185.58	11,235.42	134,825.04
			STEP 4	67.75	5,418.93	11,741.01	140,892.12
			STEP 5	70.78	5,662.78	12,269.36	147,232.32



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5345	EMERGENCY SERVICES SPECIALIST	NE	STEP 1	33.49	2,679.16	5,804.84	69,658.08
			STEP 2	35.00	2,800.43	6,067.59	72,811.08
			STEP 3	36.56	2,924.76	6,336.99	76,043.88
			STEP 4	38.20	3,056.27	6,621.91	79,462.92
			STEP 5	39.94	3,194.42	6,921.24	83,054.88
2085	FIRE BAT CHIEF-40	E	STEP 1	98.77	7,901.87	17,120.72	205,448.64
			STEP 2	103.58	8,286.61	17,954.33	215,451.96
			STEP 3	108.63	8,690.63	18,829.70	225,956.40
			STEP 4	113.93	9,114.49	19,748.06	236,976.72
			STEP 5	119.50	9,559.95	20,713.23	248,558.76
2086	FIRE BAT CHIEF-56	E	STEP 1	70.55	7,901.87	17,120.72	205,448.64
			STEP 2	73.99	8,286.61	17,954.33	215,451.96
			STEP 3	77.59	8,690.63	18,829.70	225,956.40
			STEP 4	81.38	9,114.49	19,748.06	236,976.72
			STEP 5	85.36	9,559.95	20,713.23	248,558.76
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	76.67	6,133.45	13,289.15	159,469.80
			STEP 2	80.10	6,407.87	13,883.72	166,604.64
			STEP 3	83.64	6,690.50	14,496.09	173,953.08
3120	FIRE CAPTAIN-56	NE	STEP 1	54.77	6,133.45	13,289.15	159,469.80
			STEP 2	57.22	6,407.87	13,883.72	166,604.64
			STEP 3	59.74	6,690.50	14,496.09	173,953.08
1150	FIRE CHIEF	E	STEP 1	137.75	11,019.74	23,876.11	286,513.32
			STEP 2	144.63	11,570.73	25,069.91	300,838.92
			STEP 3	151.87	12,149.27	26,323.41	315,880.92
2430	FIRE MARSHAL	E	STEP 1	96.18	7,694.90	16,672.28	200,067.36
			STEP 2	101.00	8,079.64	17,505.89	210,070.68
			STEP 3	106.05	8,483.66	18,381.26	220,575.12
			STEP 4	111.34	8,907.52	19,299.62	231,595.44
			STEP 5	116.92	9,352.98	20,264.79	243,177.48
3175	FIRE PREV INSPECT I	NE	STEP 1	58.15	4,652.71	10,080.87	120,970.44
			STEP 2	60.77	4,861.64	10,533.56	126,402.72
			STEP 3	63.55	5,083.47	11,014.19	132,170.28
			STEP 4	66.40	5,312.35	11,510.09	138,121.08
			STEP 5	69.37	5,550.61	12,026.33	144,315.96



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3178	FIRE PREV INSPECT II	NE	STEP 1	63.98	5,118.69	11,090.50	133,086.00
			STEP 2	66.87	5,348.74	11,588.94	139,067.28
			STEP 3	69.85	5,588.18	12,107.73	145,292.76
			STEP 4	73.00	5,839.37	12,651.96	151,823.52
			STEP 5	76.28	6,103.45	13,224.15	158,689.80
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	50.07	4,006.02	8,679.72	104,156.64
			STEP 2	52.32	4,186.05	9,069.78	108,837.36
			STEP 3	54.68	4,374.10	9,477.21	113,726.52
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	35.75	4,006.02	8,679.72	104,156.64
			STEP 2	37.38	4,186.05	9,069.78	108,837.36
			STEP 3	39.06	4,374.10	9,477.21	113,726.52
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	56.53	4,521.17	9,795.87	117,550.44
			STEP 1	58.91	4,712.80	10,211.07	122,532.84
			STEP 2	61.49	4,919.86	10,659.70	127,916.40
			STEP 3	64.29	5,143.34	11,143.91	133,726.92
			STEP 4	67.24	5,378.32	11,653.02	139,836.24
			STEP 5	70.26	5,619.86	12,176.37	146,116.44
3140	FIREFIGHTER-56	NE	STEP 0	40.38	4,521.17	9,795.87	117,550.44
			STEP 1	42.08	4,712.80	10,211.07	122,532.84
			STEP 2	43.92	4,919.86	10,659.70	127,916.40
			STEP 3	45.92	5,143.34	11,143.91	133,726.92
			STEP 4	48.03	5,378.32	11,653.02	139,836.24
			STEP 5	50.18	5,619.86	12,176.37	146,116.44
2078	FLEET & FACILITIES MANAGER	E	STEP 1	63.09	5,047.39	10,936.01	131,232.12
			STEP 2	66.02	5,273.53	11,425.99	137,111.88
			STEP 3	68.89	5,511.00	11,940.51	143,286.12
			STEP 4	71.98	5,758.74	12,477.28	149,727.36
			STEP 5	75.23	6,018.83	13,040.79	156,489.48
5106	FLEET MECHANIC I	NE	STEP 1	44.94	3,594.96	7,789.09	93,469.08
			STEP 2	46.95	3,756.26	8,138.56	97,662.72
			STEP 3	49.06	3,924.95	8,504.05	102,048.60
			STEP 4	51.26	4,101.00	8,885.51	106,626.12
			STEP 5	53.54	4,283.39	9,280.67	111,368.04
5107	FLEET MECHANIC II	NE	STEP 1	50.52	4,041.96	8,757.57	105,090.84
			STEP 2	52.80	4,224.34	9,152.74	109,832.88
			STEP 3	55.16	4,413.06	9,561.62	114,739.44
			STEP 4	57.65	4,612.31	9,993.33	119,919.96
			STEP 5	60.24	4,818.94	10,441.04	125,292.48



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
2023	MGMT ANALYST I	NE	STEP 1	43.87	3,509.47	7,603.85	91,246.20
			STEP 2	45.86	3,668.84	7,949.15	95,389.80
			STEP 3	47.89	3,831.36	8,301.28	99,615.36
			STEP 4	50.06	4,004.37	8,676.14	104,113.68
			STEP 5	52.28	4,182.63	9,062.37	108,748.44
2022	MGMT ANALYST II	E	STEP 1	48.16	3,853.39	8,349.02	100,188.24
			STEP 2	50.36	4,028.50	8,728.41	104,740.92
			STEP 3	52.60	4,207.80	9,116.90	109,402.80
			STEP 4	54.96	4,397.58	9,528.08	114,336.96
			STEP 5	57.42	4,593.64	9,952.89	119,434.68
5230	OFFICE ASSISTANT I	NE	STEP 1	25.43	2,033.93	4,406.85	52,882.20
			STEP 2	26.55	2,124.49	4,603.07	55,236.84
			STEP 3	27.71	2,217.11	4,803.74	57,644.88
			STEP 4	28.98	2,318.93	5,024.35	60,292.20
			STEP 5	30.28	2,422.81	5,249.42	62,993.04
5430	OFFICE ASSISTANT II	NE	STEP 1	30.65	2,452.48	5,313.71	63,764.52
			STEP 2	32.19	2,574.77	5,578.67	66,944.04
			STEP 3	33.80	2,703.72	5,858.05	70,296.60
			STEP 4	35.48	2,838.80	6,150.74	73,808.88
			STEP 5	37.26	2,981.05	6,458.94	77,507.28
5460	SYSTEMS ANALYST I	NE	STEP 1	48.53	3,881.90	8,410.79	100,929.48
			STEP 2	50.69	4,056.22	8,788.47	105,461.64
			STEP 3	52.96	4,236.80	9,179.74	110,156.88
			STEP 4	55.40	4,431.99	9,602.65	115,231.80
			STEP 5	57.87	4,629.26	10,030.06	120,360.72
2033	SYSTEMS ANALYST II	E	STEP 1	56.08	4,487.90	9,723.78	116,685.36
			STEP 2	58.61	4,688.39	10,158.17	121,898.04
			STEP 3	61.22	4,899.90	10,616.44	127,397.28
			STEP 4	64.04	5,122.42	11,098.58	133,182.96
			STEP 5	66.88	5,352.66	11,597.42	139,169.04



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	36.50	2,920.28	6,327.28	75,927.36
			STEP 2	38.15	3,052.46	6,613.67	79,364.04
			STEP 3	39.85	3,187.99	6,907.32	82,887.84
			STEP 4	41.64	3,331.33	7,217.88	86,614.56
			STEP 5	43.53	3,481.92	7,544.15	90,529.80
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	43.76	3,500.82	7,585.10	91,021.20
			STEP 2	45.69	3,656.10	7,921.55	95,058.60
			STEP 3	47.78	3,821.88	8,280.75	99,369.00
			STEP 4	49.96	3,996.50	8,659.09	103,909.08
			STEP 5	52.17	4,173.90	9,043.44	108,521.28
2106	BUSINESS MANAGER	E	STEP 1	64.50	5,159.89	11,179.76	134,157.12
			STEP 2	67.40	5,391.65	11,681.90	140,182.80
			STEP 3	70.43	5,634.66	12,208.44	146,501.28
			STEP 4	73.60	5,887.95	12,757.22	153,086.64
			STEP 5	76.91	6,152.61	13,330.65	159,967.80
5110	CENTRAL SERVICES WORKER	NE	STEP 1	24.32	1,945.68	4,215.64	50,587.68
			STEP 2	25.42	2,033.60	4,406.14	52,873.68
			STEP 3	26.55	2,125.32	4,604.86	55,258.32
			STEP 4	27.75	2,219.86	4,809.69	57,716.28
2410	DEPUTY FIRE CHIEF	E	STEP 1	127.42	10,193.43	22,085.76	265,029.12
			STEP 2	132.98	10,638.58	23,050.26	276,603.12
			STEP 3	138.80	11,103.77	24,058.17	288,698.04
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	73.59	5,887.49	12,756.23	153,074.76
			STEP 2	76.84	6,148.05	13,320.78	159,849.36
			STEP 3	80.39	6,430.92	13,933.66	167,203.92
			STEP 4	84.01	6,719.67	14,559.28	174,711.36
			STEP 5	87.75	7,020.16	15,210.34	182,524.08
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	78.11	6,248.48	13,538.38	162,460.56
			STEP 2	81.62	6,529.54	14,147.33	169,767.96
			STEP 3	85.29	6,823.40	14,784.03	177,408.36
			STEP 4	89.14	7,130.70	15,449.85	185,398.20
			STEP 5	93.15	7,452.08	16,146.17	193,754.04
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	64.70	5,175.97	11,214.60	134,575.20
			STEP 2	67.61	5,408.88	11,719.23	140,630.76
			STEP 3	70.65	5,652.28	12,246.61	146,959.32
			STEP 4	73.85	5,906.63	12,797.70	153,572.40
			STEP 5	77.15	6,172.43	13,373.60	160,483.20
2085	FIRE BAT CHIEF-40	E	STEP 1	98.77	7,901.87	17,120.72	205,448.64
			STEP 2	103.58	8,286.61	17,954.33	215,451.96
			STEP 3	108.63	8,690.63	18,829.70	225,956.40
			STEP 4	113.93	9,114.49	19,748.06	236,976.72
			STEP 5	119.50	9,559.95	20,713.23	248,558.76
2086	FIRE BAT CHIEF-56	E	STEP 1	70.55	7,901.87	17,120.72	205,448.64
			STEP 2	73.99	8,286.61	17,954.33	215,451.96
			STEP 3	77.59	8,690.63	18,829.70	225,956.40
			STEP 4	81.38	9,114.49	19,748.06	236,976.72
			STEP 5	85.36	9,559.95	20,713.23	248,558.76
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	76.67	6,133.45	13,289.15	159,469.80
			STEP 2	80.10	6,407.87	13,883.72	166,604.64
			STEP 3	83.64	6,690.50	14,496.09	173,953.08
3120	FIRE CAPTAIN-56	NE	STEP 1	54.77	6,133.45	13,289.15	159,469.80
			STEP 2	57.22	6,407.87	13,883.72	166,604.64
			STEP 3	59.74	6,690.50	14,496.09	173,953.08
1150	FIRE CHIEF	E	STEP 1	137.75	11,019.74	23,876.11	286,513.32
			STEP 2	144.63	11,570.73	25,069.91	300,838.92
			STEP 3	151.87	12,149.27	26,323.41	315,880.92
2430	FIRE MARSHAL	E	STEP 1	96.18	7,694.90	16,672.28	200,067.36
			STEP 2	101.00	8,079.64	17,505.89	210,070.68
			STEP 3	106.05	8,483.66	18,381.26	220,575.12
			STEP 4	111.34	8,907.52	19,299.62	231,595.44
			STEP 5	116.92	9,352.98	20,264.79	243,177.48



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3175	FIRE PREV INSPECT I	NE	STEP 1	58.15	4,652.71	10,080.87	120,970.44
			STEP 2	60.77	4,861.64	10,533.56	126,402.72
			STEP 3	63.55	5,083.47	11,014.19	132,170.28
			STEP 4	66.40	5,312.35	11,510.09	138,121.08
			STEP 5	69.37	5,550.61	12,026.33	144,315.96
3178	FIRE PREV INSPECT II	NE	STEP 1	63.98	5,118.69	11,090.50	133,086.00
			STEP 2	66.87	5,348.74	11,588.94	139,067.28
			STEP 3	69.85	5,588.18	12,107.73	145,292.76
			STEP 4	73.00	5,839.37	12,651.96	151,823.52
			STEP 5	76.28	6,103.45	13,224.15	158,689.80
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	50.07	4,006.02	8,679.72	104,156.64
			STEP 2	52.32	4,186.05	9,069.78	108,837.36
			STEP 3	54.68	4,374.10	9,477.21	113,726.52
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	35.75	4,006.02	8,679.72	104,156.64
			STEP 2	37.38	4,186.05	9,069.78	108,837.36
			STEP 3	39.06	4,374.10	9,477.21	113,726.52
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	56.53	4,521.17	9,795.87	117,550.44
			STEP 1	58.91	4,712.80	10,211.07	122,532.84
			STEP 2	61.49	4,919.86	10,659.70	127,916.40
			STEP 3	64.29	5,143.34	11,143.91	133,726.92
			STEP 4	67.24	5,378.32	11,653.02	139,836.24
			STEP 5	70.26	5,619.86	12,176.37	146,116.44
3140	FIREFIGHTER-56	NE	STEP 0	40.38	4,521.17	9,795.87	117,550.44
			STEP 1	42.08	4,712.80	10,211.07	122,532.84
			STEP 2	43.92	4,919.86	10,659.70	127,916.40
			STEP 3	45.92	5,143.34	11,143.91	133,726.92
			STEP 4	48.03	5,378.32	11,653.02	139,836.24
			STEP 5	50.18	5,619.86	12,176.37	146,116.44
2078	FLEET & FACILITIES MANAGER	E	STEP 1	67.51	5,400.71	11,701.53	140,418.36
			STEP 2	70.64	5,642.68	12,225.81	146,709.72
			STEP 3	73.71	5,896.78	12,776.35	153,316.20
			STEP 4	77.02	6,161.86	13,350.69	160,208.28
			STEP 5	80.50	6,440.15	13,953.65	167,443.80
5106	FLEET MECHANIC I	NE	STEP 1	46.74	3,738.76	8,100.65	97,207.80
			STEP 2	48.83	3,906.51	8,464.10	101,569.20
			STEP 3	51.02	4,081.94	8,844.21	106,130.52
			STEP 4	53.31	4,265.04	9,240.93	110,891.16
			STEP 5	55.68	4,454.72	9,651.90	115,822.80



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5107	FLEET MECHANIC II	NE	STEP 1	52.54	4,203.63	9,107.87	109,294.44
			STEP 2	54.91	4,393.32	9,518.85	114,226.20
			STEP 3	57.37	4,589.58	9,944.08	119,328.96
			STEP 4	59.96	4,796.80	10,393.06	124,716.72
			STEP 5	62.65	5,011.70	10,858.68	130,304.16
5033	MGMT ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88
2022	MGMT ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
5230	OFFICE ASSISTANT I	NE	STEP 1	26.45	2,115.29	4,583.12	54,997.44
			STEP 2	27.61	2,209.47	4,787.19	57,446.28
			STEP 3	28.82	2,305.80	4,995.89	59,950.68
			STEP 4	30.14	2,411.69	5,225.32	62,703.84
			STEP 5	31.49	2,519.72	5,459.40	65,512.80
5430	OFFICE ASSISTANT II	NE	STEP 1	31.88	2,550.58	5,526.26	66,315.12
			STEP 2	33.48	2,677.76	5,801.82	69,621.84
			STEP 3	35.15	2,811.86	6,092.37	73,108.44
			STEP 4	36.90	2,952.36	6,396.77	76,761.24
			STEP 5	38.75	3,100.29	6,717.30	80,607.60
5460	SYSTEMS ANALYST I	NE	STEP 1	51.68	4,134.23	8,957.49	107,489.88
			STEP 2	53.98	4,319.87	9,359.72	112,316.64
			STEP 3	56.40	4,512.19	9,776.42	117,317.04
			STEP 4	59.00	4,720.07	10,226.82	122,721.84
			STEP 5	61.63	4,930.16	10,682.01	128,184.12
2033	SYSTEMS ANALYST II	E	STEP 1	59.73	4,779.61	10,355.83	124,269.96
			STEP 2	62.42	4,993.13	10,818.45	129,821.40
			STEP 3	65.20	5,218.39	11,306.51	135,678.12
			STEP 4	68.20	5,455.38	11,819.99	141,839.88
			STEP 5	71.23	5,700.58	12,351.25	148,215.00



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5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	36.50	2,920.28	6,327.28	75,927.36
			STEP 2	38.15	3,052.46	6,613.67	79,364.04
			STEP 3	39.85	3,187.99	6,907.32	82,887.84
			STEP 4	41.64	3,331.33	7,217.88	86,614.56
			STEP 5	43.53	3,481.92	7,544.15	90,529.80
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	43.76	3,500.82	7,585.10	91,021.20
			STEP 2	45.69	3,656.10	7,921.55	95,058.60
			STEP 3	47.78	3,821.88	8,280.75	99,369.00
			STEP 4	49.96	3,996.50	8,659.09	103,909.08
			STEP 5	52.17	4,173.90	9,043.44	108,521.28
2106	BUSINESS MANAGER	E	STEP 1	64.50	5,159.89	11,179.76	134,157.12
			STEP 2	67.40	5,391.65	11,681.90	140,182.80
			STEP 3	70.43	5,634.66	12,208.44	146,501.28
			STEP 4	73.60	5,887.95	12,757.22	153,086.64
			STEP 5	76.91	6,152.61	13,330.65	159,967.80
5110	CENTRAL SERVICES WORKER	NE	STEP 1	24.32	1,945.68	4,215.64	50,587.68
			STEP 2	25.42	2,033.60	4,406.14	52,873.68
			STEP 3	26.55	2,125.32	4,604.86	55,258.32
			STEP 4	27.75	2,219.86	4,809.69	57,716.28
2410	DEPUTY FIRE CHIEF	E	STEP 1	127.42	10,193.43	22,085.76	265,029.12
			STEP 2	132.98	10,638.58	23,050.26	276,603.12
			STEP 3	138.80	11,103.77	24,058.17	288,698.04
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	73.59	5,887.49	12,756.23	153,074.76
			STEP 2	76.84	6,148.05	13,320.78	159,849.36
			STEP 3	80.39	6,430.92	13,933.66	167,203.92
			STEP 4	84.01	6,719.67	14,559.28	174,711.36
			STEP 5	87.75	7,020.16	15,210.34	182,524.08
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	78.11	6,248.48	13,538.38	162,460.56
			STEP 2	81.62	6,529.54	14,147.33	169,767.96
			STEP 3	85.29	6,823.40	14,784.03	177,408.36
			STEP 4	89.14	7,130.70	15,449.85	185,398.20
			STEP 5	93.15	7,452.08	16,146.17	193,754.04
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88



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2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	64.70	5,175.97	11,214.60	134,575.20
			STEP 2	67.61	5,408.88	11,719.23	140,630.76
			STEP 3	70.65	5,652.28	12,246.61	146,959.32
			STEP 4	73.85	5,906.63	12,797.70	153,572.40
			STEP 5	77.15	6,172.43	13,373.60	160,483.20
2085	FIRE BAT CHIEF-40	E	STEP 1	98.77	7,901.87	17,120.72	205,448.64
			STEP 2	103.58	8,286.61	17,954.33	215,451.96
			STEP 3	108.63	8,690.63	18,829.70	225,956.40
			STEP 4	113.93	9,114.49	19,748.06	236,976.72
			STEP 5	119.50	9,559.95	20,713.23	248,558.76
2086	FIRE BAT CHIEF-56	E	STEP 1	70.55	7,901.87	17,120.72	205,448.64
			STEP 2	73.99	8,286.61	17,954.33	215,451.96
			STEP 3	77.59	8,690.63	18,829.70	225,956.40
			STEP 4	81.38	9,114.49	19,748.06	236,976.72
			STEP 5	85.36	9,559.95	20,713.23	248,558.76
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	76.67	6,133.45	13,289.15	159,469.80
			STEP 2	80.10	6,407.87	13,883.72	166,604.64
			STEP 3	83.64	6,690.50	14,496.09	173,953.08
3120	FIRE CAPTAIN-56	NE	STEP 1	54.77	6,133.45	13,289.15	159,469.80
			STEP 2	57.22	6,407.87	13,883.72	166,604.64
			STEP 3	59.74	6,690.50	14,496.09	173,953.08
1150	FIRE CHIEF	E	STEP 1	137.75	11,019.74	23,876.11	286,513.32
			STEP 2	144.63	11,570.73	25,069.91	300,838.92
			STEP 3	151.87	12,149.27	26,323.41	315,880.92
2430	FIRE MARSHAL	E	STEP 1	96.18	7,694.90	16,672.28	200,067.36
			STEP 2	101.00	8,079.64	17,505.89	210,070.68
			STEP 3	106.05	8,483.66	18,381.26	220,575.12
			STEP 4	111.34	8,907.52	19,299.62	231,595.44
			STEP 5	116.92	9,352.98	20,264.79	243,177.48



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
3175	FIRE PREV INSPECT I	NE	STEP 1	58.15	4,652.71	10,080.87	120,970.44
			STEP 2	60.77	4,861.64	10,533.56	126,402.72
			STEP 3	63.55	5,083.47	11,014.19	132,170.28
			STEP 4	66.40	5,312.35	11,510.09	138,121.08
			STEP 5	69.37	5,550.61	12,026.33	144,315.96
3178	FIRE PREV INSPECT II	NE	STEP 1	63.98	5,118.69	11,090.50	133,086.00
			STEP 2	66.87	5,348.74	11,588.94	139,067.28
			STEP 3	69.85	5,588.18	12,107.73	145,292.76
			STEP 4	73.00	5,839.37	12,651.96	151,823.52
			STEP 5	76.28	6,103.45	13,224.15	158,689.80
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	50.07	4,006.02	8,679.72	104,156.64
			STEP 2	52.32	4,186.05	9,069.78	108,837.36
			STEP 3	54.68	4,374.10	9,477.21	113,726.52
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	35.75	4,006.02	8,679.72	104,156.64
			STEP 2	37.38	4,186.05	9,069.78	108,837.36
			STEP 3	39.06	4,374.10	9,477.21	113,726.52
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	56.53	4,521.17	9,795.87	117,550.44
			STEP 1	58.91	4,712.80	10,211.07	122,532.84
			STEP 2	61.49	4,919.86	10,659.70	127,916.40
			STEP 3	64.29	5,143.34	11,143.91	133,726.92
			STEP 4	67.24	5,378.32	11,653.02	139,836.24
			STEP 5	70.26	5,619.86	12,176.37	146,116.44
3140	FIREFIGHTER-56	NE	STEP 0	40.38	4,521.17	9,795.87	117,550.44
			STEP 1	42.08	4,712.80	10,211.07	122,532.84
			STEP 2	43.92	4,919.86	10,659.70	127,916.40
			STEP 3	45.92	5,143.34	11,143.91	133,726.92
			STEP 4	48.03	5,378.32	11,653.02	139,836.24
			STEP 5	50.18	5,619.86	12,176.37	146,116.44
2078	FLEET & FACILITIES MANAGER	E	STEP 1	67.51	5,400.71	11,701.53	140,418.36
			STEP 2	70.64	5,642.68	12,225.81	146,709.72
			STEP 3	73.71	5,896.78	12,776.35	153,316.20
			STEP 4	77.02	6,161.86	13,350.69	160,208.28
			STEP 5	80.50	6,440.15	13,953.65	167,443.80
5106	FLEET MECHANIC I	NE	STEP 1	46.74	3,738.76	8,100.65	97,207.80
			STEP 2	48.83	3,906.51	8,464.10	101,569.20
			STEP 3	51.02	4,081.94	8,844.21	106,130.52
			STEP 4	53.31	4,265.04	9,240.93	110,891.16
			STEP 5	55.68	4,454.72	9,651.90	115,822.80



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JOB CODE	TITLE	E=Exempt NE=Non Ex	STEPS	HOURLY	BI-WEEKLY	MONTHLY	ANNUAL
5107	FLEET MECHANIC II	NE	STEP 1	52.54	4,203.63	9,107.87	109,294.44
			STEP 2	54.91	4,393.32	9,518.85	114,226.20
			STEP 3	57.37	4,589.58	9,944.08	119,328.96
			STEP 4	59.96	4,796.80	10,393.06	124,716.72
			STEP 5	62.65	5,011.70	10,858.68	130,304.16
5033	MGMT ANALYST I	NE	STEP 1	46.94	3,755.13	8,136.12	97,633.44
			STEP 2	49.07	3,925.66	8,505.59	102,067.08
			STEP 3	51.24	4,099.56	8,882.37	106,588.44
			STEP 4	53.56	4,284.68	9,283.47	111,401.64
			STEP 5	55.94	4,475.42	9,696.74	116,360.88
2022	MGMT ANALYST II	E	STEP 1	51.53	4,123.13	8,933.45	107,201.40
			STEP 2	53.89	4,310.49	9,339.40	112,072.80
			STEP 3	56.28	4,502.34	9,755.08	117,060.96
			STEP 4	58.81	4,705.41	10,195.05	122,340.60
			STEP 5	61.44	4,915.20	10,649.59	127,795.08
5230	OFFICE ASSISTANT I	NE	STEP 1	26.45	2,115.29	4,583.12	54,997.44
			STEP 2	27.61	2,209.47	4,787.19	57,446.28
			STEP 3	28.82	2,305.80	4,995.89	59,950.68
			STEP 4	30.14	2,411.69	5,225.32	62,703.84
			STEP 5	31.49	2,519.72	5,459.40	65,512.80
5430	OFFICE ASSISTANT II	NE	STEP 1	31.88	2,550.58	5,526.26	66,315.12
			STEP 2	33.48	2,677.76	5,801.82	69,621.84
			STEP 3	35.15	2,811.86	6,092.37	73,108.44
			STEP 4	36.90	2,952.36	6,396.77	76,761.24
			STEP 5	38.75	3,100.29	6,717.30	80,607.60
5460	SYSTEMS ANALYST I	NE	STEP 1	51.68	4,134.23	8,957.49	107,489.88
			STEP 2	53.98	4,319.87	9,359.72	112,316.64
			STEP 3	56.40	4,512.19	9,776.42	117,317.04
			STEP 4	59.00	4,720.07	10,226.82	122,721.84
			STEP 5	61.63	4,930.16	10,682.01	128,184.12
2033	SYSTEMS ANALYST II	E	STEP 1	59.73	4,779.61	10,355.83	124,269.96
			STEP 2	62.42	4,993.13	10,818.45	129,821.40
			STEP 3	65.20	5,218.39	11,306.51	135,678.12
			STEP 4	68.20	5,455.38	11,819.99	141,839.88
			STEP 5	71.23	5,700.58	12,351.25	148,215.00



**SAN MATEO CONSOLIDATED FIRE DEPARTMENT
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E = Exempt NE = Non-							
JOB CODE	TITLE	Exempt	STEPS	HOURLY	BIWEEKLY	MONTHLY	ANNUAL
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	37.5986	3007.8916	6517.0984	78205.1808
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 2	39.3005	3144.0370	6812.0801	81744.9612
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 3	41.0454	3283.6337	7114.5396	85374.4752
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 4	42.8909	3431.2691	7434.4164	89212.9968
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 5	44.8297	3586.3728	7770.4745	93245.6940
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	45.0730	3605.8398	7812.6530	93751.8360
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 2	47.0723	3765.7830	8159.1965	97910.3580
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 3	49.2068	3936.5412	8529.1725	102350.0700
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 4	51.4550	4116.3982	8918.8627	107026.3524
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 5	53.7389	4299.1122	9314.7432	111776.9184
2106	BUSINESS MANAGER	E	STEP 1	67.7623	5420.9800	11745.4567	140945.4800
2106	BUSINESS MANAGER	E	STEP 2	70.8058	5664.4638	12273.0050	147276.0600
2106	BUSINESS MANAGER	E	STEP 3	73.9972	5919.7788	12826.1875	153914.2500
2106	BUSINESS MANAGER	E	STEP 4	77.3235	6185.8781	13402.7358	160832.8300
2106	BUSINESS MANAGER	E	STEP 5	80.7991	6463.9300	14005.1817	168062.1800
5110	CENTRAL SERVICES WORKER	NE	STEP 1	25.0506	2004.0504	4342.1092	52105.3104
5110	CENTRAL SERVICES WORKER	NE	STEP 2	26.1826	2094.6112	4538.3242	54459.8904
5110	CENTRAL SERVICES WORKER	NE	STEP 3	27.3635	2189.0796	4743.0058	56916.0696
5110	CENTRAL SERVICES WORKER	NE	STEP 4	28.5807	2286.4526	4953.9807	59447.7684
2410	DEPUTY FIRE CHIEF	E	STEP 1	131.2404	10499.2308	22748.3333	272980.0000
2410	DEPUTY FIRE CHIEF	E	STEP 2	136.9717	10957.7392	23741.7683	284901.2200
2410	DEPUTY FIRE CHIEF	E	STEP 3	142.9611	11436.8842	24779.9158	297358.9900
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	79.5915	6367.3213	13795.8627	165550.3529
3160	DEPUTY FIRE MARSHAL	NE	STEP 2	83.1140	6649.1186	14406.4236	172877.0828
3160	DEPUTY FIRE MARSHAL	NE	STEP 3	86.9380	6955.0400	15069.2533	180831.0395
3160	DEPUTY FIRE MARSHAL	NE	STEP 4	90.8415	7267.3206	15745.8613	188950.3358
3160	DEPUTY FIRE MARSHAL	NE	STEP 5	94.9037	7592.2997	16449.9827	197399.7925
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	84.4717	6757.7346	14641.7583	175701.1000
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 2	88.2712	7061.6942	15300.3375	183604.0500
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 3	92.2438	7379.5062	15988.9300	191867.1600
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 4	96.3982	7711.8523	16709.0133	200508.1600
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 5	100.7428	8059.4235	17462.0842	209545.0100
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	48.3473	3867.7863	8380.2036	100562.4432
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 2	50.5428	4043.4266	8760.7577	105129.0924
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 3	52.7818	4222.5420	9148.8411	109786.0932
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 4	55.1652	4413.2188	9561.9741	114743.6892
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 5	57.6210	4609.6810	9987.6422	119851.7064
2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	53.0853	4246.8250	9201.4542	110417.4500
2150	EMERGENCY SERVICES ANALYST II	E	STEP 2	55.4976	4439.8073	9619.5825	115434.9900
2150	EMERGENCY SERVICES ANALYST II	E	STEP 3	57.9677	4637.4150	10047.7325	120572.7900
2150	EMERGENCY SERVICES ANALYST II	E	STEP 4	60.5821	4846.5700	10500.9017	126010.8200
2150	EMERGENCY SERVICES ANALYST II	E	STEP 5	63.2831	5062.6515	10969.0783	131628.9400
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	67.9734	5437.8735	11782.0592	141384.7100
2482	EMERGENCY SERVICES MANAGER	E	STEP 2	71.0321	5682.5650	12312.2242	147746.6900
2482	EMERGENCY SERVICES MANAGER	E	STEP 3	74.2286	5938.2873	12866.2892	154395.4700
2482	EMERGENCY SERVICES MANAGER	E	STEP 4	77.5688	6205.5069	13445.2650	161343.1800
2482	EMERGENCY SERVICES MANAGER	E	STEP 5	81.0595	6484.7562	14050.3050	168603.6600
2085	FIRE BAT CHIEF-40	E	STEP 1	103.7244	8297.9508	17978.8933	215746.7200
2085	FIRE BAT CHIEF-40	E	STEP 2	108.7140	8697.1215	18843.7633	226125.1600
2085	FIRE BAT CHIEF-40	E	STEP 3	113.9536	9116.2892	19751.9600	237023.5200
2085	FIRE BAT CHIEF-40	E	STEP 4	119.4505	9556.0423	20704.7583	248457.1000
2085	FIRE BAT CHIEF-40	E	STEP 5	125.2276	10018.2104	21706.1225	260473.4700
2086	FIRE BAT CHIEF-56	E	STEP 1	74.0888	8297.9508	17978.8933	215746.7200
2086	FIRE BAT CHIEF-56	E	STEP 2	77.6529	8697.1215	18843.7633	226125.1600
2086	FIRE BAT CHIEF-56	E	STEP 3	81.3954	9116.2892	19751.9600	237023.5200
2086	FIRE BAT CHIEF-56	E	STEP 4	85.3218	9556.0423	20704.7583	248457.1000



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2086	FIRE BAT CHIEF-56	E	STEP 5	89.4483	10018.2104	21706.1225	260473.4700
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	82.9166	6633.3303	14372.2157	172466.5887
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 2	86.6264	6930.1122	15015.2432	180182.9182
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 3	90.4472	7235.7791	15677.5213	188130.2560
3120	FIRE CAPTAIN-56	NE	STEP 1	59.2262	6633.3303	14372.2157	172466.5887
3120	FIRE CAPTAIN-56	NE	STEP 2	61.8760	6930.1122	15015.2432	180182.9182
3120	FIRE CAPTAIN-56	NE	STEP 3	64.6052	7235.7791	15677.5213	188130.2560
1150	FIRE CHIEF	E	STEP 1	141.8792	11350.3354	24592.3933	295108.7200
1150	FIRE CHIEF	E	STEP 2	148.9731	11917.8496	25822.0075	309864.0900
1150	FIRE CHIEF	E	STEP 3	156.4218	12513.7442	27113.1125	325357.3500
2430	FIRE MARSHAL	E	STEP 1	99.7932	7983.4573	17297.4908	207569.8900
2430	FIRE MARSHAL	E	STEP 2	104.7829	8382.6285	18162.3617	217948.3400
2430	FIRE MARSHAL	E	STEP 3	110.0224	8801.7958	19070.5575	228846.6900
2430	FIRE MARSHAL	E	STEP 4	115.5194	9241.5488	20023.3558	240280.2700
2430	FIRE MARSHAL	E	STEP 5	121.2965	9703.7169	21024.7200	252296.6400
3175	FIRE PREV INSPECT I	NE	STEP 1	62.8988	5031.9050	10902.4609	130829.5309
3175	FIRE PREV INSPECT I	NE	STEP 2	65.7233	5257.8670	11392.0451	136704.5417
3175	FIRE PREV INSPECT I	NE	STEP 3	68.7222	5497.7753	11911.8465	142942.1578
3175	FIRE PREV INSPECT I	NE	STEP 4	71.8163	5745.3057	12448.1623	149377.9480
3175	FIRE PREV INSPECT I	NE	STEP 5	75.0374	6002.9889	13006.4759	156077.7107
3178	FIRE PREV INSPECT II	NE	STEP 1	69.1983	5535.8657	11994.3758	143932.5090
3178	FIRE PREV INSPECT II	NE	STEP 2	72.3083	5784.6640	12533.4386	150401.2633
3178	FIRE PREV INSPECT II	NE	STEP 3	75.5452	6043.6200	13094.5100	157134.1199
3178	FIRE PREV INSPECT II	NE	STEP 4	78.9409	6315.2745	13683.0947	164197.1369
3178	FIRE PREV INSPECT II	NE	STEP 5	82.5111	6600.8853	14301.9182	171623.0187
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	54.1564	4332.5156	9387.1172	112645.4062
3142	FIREFIGHTER TRAINEE-40	NE	STEP 2	56.5902	4527.2156	9808.9671	117707.6048
3142	FIREFIGHTER TRAINEE-40	NE	STEP 3	59.1323	4730.5858	10249.6026	122995.2314
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	38.6832	4332.5156	9387.1172	112645.4062
3143	FIREFIGHTER TRAINEE-56	NE	STEP 2	40.4216	4527.2156	9808.9671	117707.6048
3143	FIREFIGHTER TRAINEE-56	NE	STEP 3	42.2374	4730.5858	10249.6026	122995.2314
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	61.1206	4889.6462	10594.2334	127130.8009
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 1	63.7112	5096.8949	11043.2722	132519.2665
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 2	66.5104	5320.8303	11528.4656	138341.5866
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 3	69.5316	5562.5255	12052.1387	144625.6640
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 4	72.7081	5816.6498	12602.7411	151232.8936
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 5	75.9735	6077.8819	13168.7442	158024.9299
3140	FIREFIGHTER-56	NE	STEP 0	43.6576	4889.6462	10594.2334	127130.8009
3140	FIREFIGHTER-56	NE	STEP 1	45.5080	5096.8949	11043.2722	132519.2665
3140	FIREFIGHTER-56	NE	STEP 2	47.5074	5320.8303	11528.4656	138341.5866
3140	FIREFIGHTER-56	NE	STEP 3	49.6654	5562.5255	12052.1387	144625.6640
3140	FIREFIGHTER-56	NE	STEP 4	51.9344	5816.6498	12602.7411	151232.8936
3140	FIREFIGHTER-56	NE	STEP 5	54.2668	6077.8819	13168.7442	158024.9299
2078	FLEET & FACILITIES MANAGER	E	STEP 1	69.5341	5562.7277	12052.5767	144630.9200
2078	FLEET & FACILITIES MANAGER	E	STEP 2	72.6495	5811.9623	12592.5850	151111.0200
2078	FLEET & FACILITIES MANAGER	E	STEP 3	75.9210	6073.6804	13159.6408	157915.6900
2078	FLEET & FACILITIES MANAGER	E	STEP 4	79.3339	6346.7127	13751.2108	165014.5300
2078	FLEET & FACILITIES MANAGER	E	STEP 5	82.9169	6633.3508	14372.2600	172467.1200
5106	FLEET MECHANIC I	NE	STEP 1	48.1366	3850.9244	8343.6695	100124.0340
5106	FLEET MECHANIC I	NE	STEP 2	50.2963	4023.7029	8718.0230	104616.2760
5106	FLEET MECHANIC I	NE	STEP 3	52.5550	4204.4014	9109.5363	109314.4356
5106	FLEET MECHANIC I	NE	STEP 4	54.9124	4392.9960	9518.1579	114217.8948
5106	FLEET MECHANIC I	NE	STEP 5	57.3546	4588.3648	9941.4570	119297.4840
5107	FLEET MECHANIC II	NE	STEP 1	54.1218	4329.7413	9381.1061	112573.2732
5107	FLEET MECHANIC II	NE	STEP 2	56.5639	4525.1148	9804.4155	117652.9860
5107	FLEET MECHANIC II	NE	STEP 3	59.0908	4727.2626	10242.4024	122908.8288
5107	FLEET MECHANIC II	NE	STEP 4	61.7588	4940.7008	10704.8518	128458.2216
5107	FLEET MECHANIC II	NE	STEP 5	64.5256	5162.0494	11184.4404	134213.2848
5033	MGMT ANALYST I	NE	STEP 1	49.3143	3945.1420	8547.8077	102573.6921



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5033	MGMT ANALYST I	NE	STEP 2	51.5537	4124.2952	8935.9729	107231.6742
5033	MGMT ANALYST I	NE	STEP 3	53.8374	4306.9929	9331.8179	111981.8151
5033	MGMT ANALYST I	NE	STEP 4	56.2685	4501.4832	9753.2136	117038.5630
5033	MGMT ANALYST I	NE	STEP 5	58.7734	4701.8746	10187.3950	122248.7405
2022	MGMT ANALYST II	E	STEP 1	54.1470	4331.7615	9385.4833	112625.8000
2022	MGMT ANALYST II	E	STEP 2	56.6075	4528.6035	9811.9742	117743.6900
2022	MGMT ANALYST II	E	STEP 3	59.1270	4730.1635	10248.6875	122984.2500
2022	MGMT ANALYST II	E	STEP 4	61.7938	4943.5015	10710.9200	128531.0400
2022	MGMT ANALYST II	E	STEP 5	64.5488	5163.9046	11188.4600	134261.5200
5230	OFFICE ASSISTANT I	NE	STEP 1	27.2343	2178.7447	4720.6136	56647.3632
5230	OFFICE ASSISTANT I	NE	STEP 2	28.4470	2275.7565	4930.8057	59169.6684
5230	OFFICE ASSISTANT I	NE	STEP 3	29.6871	2374.9692	5145.7667	61749.2004
5230	OFFICE ASSISTANT I	NE	STEP 4	31.0505	2484.0367	5382.0796	64584.9552
5230	OFFICE ASSISTANT I	NE	STEP 5	32.4414	2595.3148	5623.1820	67478.1840
5430	OFFICE ASSISTANT II	NE	STEP 1	32.8387	2627.0990	5692.0478	68304.5736
5430	OFFICE ASSISTANT II	NE	STEP 2	34.4762	2758.0960	5975.8746	71710.4952
5430	OFFICE ASSISTANT II	NE	STEP 3	36.2027	2896.2190	6275.1411	75301.6932
5430	OFFICE ASSISTANT II	NE	STEP 4	38.0116	3040.9260	6588.6731	79064.0772
5430	OFFICE ASSISTANT II	NE	STEP 5	39.9163	3193.3011	6918.8190	83025.8280
5460	SYSTEMS ANALYST I	NE	STEP 1	53.2282	4258.2529	9226.2147	110714.5764
5460	SYSTEMS ANALYST I	NE	STEP 2	55.6183	4449.4669	9640.5116	115686.1392
5460	SYSTEMS ANALYST I	NE	STEP 3	58.0945	4647.5597	10069.7126	120836.5512
5460	SYSTEMS ANALYST I	NE	STEP 4	60.7709	4861.6729	10533.6246	126403.4952
5460	SYSTEMS ANALYST I	NE	STEP 5	63.4758	5078.0632	11002.4703	132029.6436
2033	SYSTEMS ANALYST II	E	STEP 1	61.5375	4923.0023	10666.5050	127998.0600
2033	SYSTEMS ANALYST II	E	STEP 2	64.2866	5142.9250	11143.0042	133716.0500
2033	SYSTEMS ANALYST II	E	STEP 3	67.1868	5374.9412	11645.7058	139748.4700
2033	SYSTEMS ANALYST II	E	STEP 4	70.2380	5619.0415	12174.5900	146095.0800
2033	SYSTEMS ANALYST II	E	STEP 5	73.3949	5871.5942	12721.7875	152661.4500



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JOB CODE	TITLE	E = Exempt NE	STEPS	HOURLY	BIWEEKLY	MONTHLY	ANNUAL
		= Non-Exempt					
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 1	37.5986	3007.8916	6517.0984	78205.1808
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 2	39.3005	3144.0370	6812.0801	81744.9612
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 3	41.0454	3283.6337	7114.5396	85374.4752
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 4	42.8909	3431.2691	7434.4164	89212.9968
5340	ADMINISTRATIVE ASSISTANT	NE	STEP 5	44.8297	3586.3728	7770.4745	93245.6940
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 1	45.0730	3605.8398	7812.6530	93751.8360
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 2	47.0723	3765.7830	8159.1965	97910.3580
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 3	49.2068	3936.5412	8529.1725	102350.0700
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 4	51.4550	4116.3982	8918.8627	107026.3524
5025	ADMINISTRATIVE TECHNICIAN	NE	STEP 5	53.7389	4299.1122	9314.7432	111776.9184
2106	BUSINESS MANAGER	E	STEP 1	67.7623	5420.9800	11745.4567	140945.4800
2106	BUSINESS MANAGER	E	STEP 2	70.8058	5664.4638	12273.0050	147276.0600
2106	BUSINESS MANAGER	E	STEP 3	73.9972	5919.7788	12826.1875	153914.2500
2106	BUSINESS MANAGER	E	STEP 4	77.3235	6185.8781	13402.7358	160832.8300
2106	BUSINESS MANAGER	E	STEP 5	80.7991	6463.9300	14005.1817	168062.1800
5110	CENTRAL SERVICES WORKER	NE	STEP 1	25.0506	2004.0504	4342.1092	52105.3104
5110	CENTRAL SERVICES WORKER	NE	STEP 2	26.1826	2094.6112	4538.3242	54459.8904
5110	CENTRAL SERVICES WORKER	NE	STEP 3	27.3635	2189.0796	4743.0058	56916.0696
5110	CENTRAL SERVICES WORKER	NE	STEP 4	28.5807	2286.4526	4953.9807	59447.7684
2410	DEPUTY FIRE CHIEF	E	STEP 1	139.1148	11129.1846	24113.2333	289358.8000
2410	DEPUTY FIRE CHIEF	E	STEP 2	145.1900	11615.2035	25166.2742	301995.2900
2410	DEPUTY FIRE CHIEF	E	STEP 3	151.5387	12123.0973	26266.7108	315200.5300
3160	DEPUTY FIRE MARSHAL	NE	STEP 1	79.5915	6367.3213	13795.8627	165550.3529
3160	DEPUTY FIRE MARSHAL	NE	STEP 2	83.1140	6649.1186	14406.4236	172877.0828
3160	DEPUTY FIRE MARSHAL	NE	STEP 3	86.9380	6955.0400	15069.2533	180831.0395
3160	DEPUTY FIRE MARSHAL	NE	STEP 4	90.8415	7267.3206	15745.8613	188950.3358
3160	DEPUTY FIRE MARSHAL	NE	STEP 5	94.9037	7592.2997	16449.9827	197399.7925
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 1	84.4717	6757.7346	14641.7583	175701.1000
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 2	88.2712	7061.6942	15300.3375	183604.0500
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 3	92.2438	7379.5062	15988.9300	191867.1600
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 4	96.3982	7711.8523	16709.0133	200508.1600
2415	EMERGENCY MEDICAL SERVICES MGR	E	STEP 5	100.7428	8059.4235	17462.0842	209545.0100
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 1	48.3473	3867.7863	8380.2036	100562.4432
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 2	50.5428	4043.4266	8760.7577	105129.0924
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 3	52.7818	4222.5420	9148.8411	109786.0932
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 4	55.1652	4413.2188	9561.9741	114743.6892
5346	EMERGENCY SERVICES ANALYST I	NE	STEP 5	57.6210	4609.6810	9987.6422	119851.7064
2150	EMERGENCY SERVICES ANALYST II	E	STEP 1	53.0853	4246.8250	9201.4542	110417.4500
2150	EMERGENCY SERVICES ANALYST II	E	STEP 2	55.4976	4439.8073	9619.5825	115434.9900
2150	EMERGENCY SERVICES ANALYST II	E	STEP 3	57.9677	4637.4150	10047.7325	120572.7900
2150	EMERGENCY SERVICES ANALYST II	E	STEP 4	60.5821	4846.5700	10500.9017	126010.8200
2150	EMERGENCY SERVICES ANALYST II	E	STEP 5	63.2831	5062.6515	10969.0783	131628.9400
2482	EMERGENCY SERVICES MANAGER	E	STEP 1	67.9734	5437.8735	11782.0592	141384.7100
2482	EMERGENCY SERVICES MANAGER	E	STEP 2	71.0321	5682.5650	12312.2242	147746.6900
2482	EMERGENCY SERVICES MANAGER	E	STEP 3	74.2286	5938.2873	12866.2892	154395.4700
2482	EMERGENCY SERVICES MANAGER	E	STEP 4	77.5688	6205.5069	13445.2650	161343.1800
2482	EMERGENCY SERVICES MANAGER	E	STEP 5	81.0595	6484.7562	14050.3050	168603.6600
2085	FIRE BAT CHIEF-40	E	STEP 1	103.7244	8297.9508	17978.8933	215746.7200
2085	FIRE BAT CHIEF-40	E	STEP 2	108.7140	8697.1215	18843.7633	226125.1600
2085	FIRE BAT CHIEF-40	E	STEP 3	113.9536	9116.2892	19751.9600	237023.5200
2085	FIRE BAT CHIEF-40	E	STEP 4	119.4505	9556.0423	20704.7583	248457.1000
2085	FIRE BAT CHIEF-40	E	STEP 5	125.2276	10018.2104	21706.1225	260473.4700
2086	FIRE BAT CHIEF-56	E	STEP 1	74.0888	8297.9508	17978.8933	215746.7200
2086	FIRE BAT CHIEF-56	E	STEP 2	77.6529	8697.1215	18843.7633	226125.1600
2086	FIRE BAT CHIEF-56	E	STEP 3	81.3954	9116.2892	19751.9600	237023.5200
2086	FIRE BAT CHIEF-56	E	STEP 4	85.3218	9556.0423	20704.7583	248457.1000



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2086	FIRE BAT CHIEF-56	E	STEP 5	89.4483	10018.2104	21706.1225	260473.4700
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 1	82.9166	6633.3303	14372.2157	172466.5887
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 2	86.6264	6930.1122	15015.2432	180182.9182
3121	FIRE CAPTAIN-40 (LT DUTY)	NE	STEP 3	90.4472	7235.7791	15677.5213	188130.2560
3120	FIRE CAPTAIN-56	NE	STEP 1	59.2262	6633.3303	14372.2157	172466.5887
3120	FIRE CAPTAIN-56	NE	STEP 2	61.8760	6930.1122	15015.2432	180182.9182
3120	FIRE CAPTAIN-56	NE	STEP 3	64.6052	7235.7791	15677.5213	188130.2560
1150	FIRE CHIEF	E	STEP 1	150.3919	12031.3554	26067.9367	312815.2400
1150	FIRE CHIEF	E	STEP 2	157.9115	12632.9208	27371.3283	328455.9400
1150	FIRE CHIEF	E	STEP 3	165.8071	13264.5688	28739.8992	344878.7900
2430	FIRE MARSHAL	E	STEP 1	99.7932	7983.4573	17297.4908	207569.8900
2430	FIRE MARSHAL	E	STEP 2	104.7829	8382.6285	18162.3617	217948.3400
2430	FIRE MARSHAL	E	STEP 3	110.0224	8801.7958	19070.5575	228846.6900
2430	FIRE MARSHAL	E	STEP 4	115.5194	9241.5488	20023.3558	240280.2700
2430	FIRE MARSHAL	E	STEP 5	121.2965	9703.7169	21024.7200	252296.6400
3175	FIRE PREV INSPECT I	NE	STEP 1	62.8988	5031.9050	10902.4609	130829.5309
3175	FIRE PREV INSPECT I	NE	STEP 2	65.7233	5257.8670	11392.0451	136704.5417
3175	FIRE PREV INSPECT I	NE	STEP 3	68.7222	5497.7753	11911.8465	142942.1578
3175	FIRE PREV INSPECT I	NE	STEP 4	71.8163	5745.3057	12448.1623	149377.9480
3175	FIRE PREV INSPECT I	NE	STEP 5	75.0374	6002.9889	13006.4759	156077.7107
3178	FIRE PREV INSPECT II	NE	STEP 1	69.1983	5535.8657	11994.3758	143932.5090
3178	FIRE PREV INSPECT II	NE	STEP 2	72.3083	5784.6640	12533.4386	150401.2633
3178	FIRE PREV INSPECT II	NE	STEP 3	75.5452	6043.6200	13094.5100	157134.1199
3178	FIRE PREV INSPECT II	NE	STEP 4	78.9409	6315.2745	13683.0947	164197.1369
3178	FIRE PREV INSPECT II	NE	STEP 5	82.5111	6600.8853	14301.9182	171623.0187
3142	FIREFIGHTER TRAINEE-40	NE	STEP 1	54.1564	4332.5156	9387.1172	112645.4062
3142	FIREFIGHTER TRAINEE-40	NE	STEP 2	56.5902	4527.2156	9808.9671	117707.6048
3142	FIREFIGHTER TRAINEE-40	NE	STEP 3	59.1323	4730.5858	10249.6026	122995.2314
3143	FIREFIGHTER TRAINEE-56	NE	STEP 1	38.6832	4332.5156	9387.1172	112645.4062
3143	FIREFIGHTER TRAINEE-56	NE	STEP 2	40.4216	4527.2156	9808.9671	117707.6048
3143	FIREFIGHTER TRAINEE-56	NE	STEP 3	42.2374	4730.5858	10249.6026	122995.2314
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 0	61.1206	4889.6462	10594.2334	127130.8009
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 1	63.7112	5096.8949	11043.2722	132519.2665
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 2	66.5104	5320.8303	11528.4656	138341.5866
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 3	69.5316	5562.5255	12052.1387	144625.6640
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 4	72.7081	5816.6498	12602.7411	151232.8936
3144	FIREFIGHTER-40 (LT DUTY)	NE	STEP 5	75.9735	6077.8819	13168.7442	158024.9299
3140	FIREFIGHTER-56	NE	STEP 0	43.6576	4889.6462	10594.2334	127130.8009
3140	FIREFIGHTER-56	NE	STEP 1	45.5080	5096.8949	11043.2722	132519.2665
3140	FIREFIGHTER-56	NE	STEP 2	47.5074	5320.8303	11528.4656	138341.5866
3140	FIREFIGHTER-56	NE	STEP 3	49.6654	5562.5255	12052.1387	144625.6640
3140	FIREFIGHTER-56	NE	STEP 4	51.9344	5816.6498	12602.7411	151232.8936
3140	FIREFIGHTER-56	NE	STEP 5	54.2668	6077.8819	13168.7442	158024.9299
2078	FLEET & FACILITIES MANAGER	E	STEP 1	69.5341	5562.7277	12052.5767	144630.9200
2078	FLEET & FACILITIES MANAGER	E	STEP 2	72.6495	5811.9623	12592.5850	151111.0200
2078	FLEET & FACILITIES MANAGER	E	STEP 3	75.9210	6073.6804	13159.6408	157915.6900
2078	FLEET & FACILITIES MANAGER	E	STEP 4	79.3339	6346.7127	13751.2108	165014.5300
2078	FLEET & FACILITIES MANAGER	E	STEP 5	82.9169	6633.3508	14372.2600	172467.1200
5106	FLEET MECHANIC I	NE	STEP 1	48.1366	3850.9244	8343.6695	100124.0340
5106	FLEET MECHANIC I	NE	STEP 2	50.2963	4023.7029	8718.0230	104616.2760
5106	FLEET MECHANIC I	NE	STEP 3	52.5550	4204.4014	9109.5363	109314.4356
5106	FLEET MECHANIC I	NE	STEP 4	54.9124	4392.9960	9518.1579	114217.8948
5106	FLEET MECHANIC I	NE	STEP 5	57.3546	4588.3648	9941.4570	119297.4840
5107	FLEET MECHANIC II	NE	STEP 1	54.1218	4329.7413	9381.1061	112573.2732
5107	FLEET MECHANIC II	NE	STEP 2	56.5639	4525.1148	9804.4155	117652.9860
5107	FLEET MECHANIC II	NE	STEP 3	59.0908	4727.2626	10242.4024	122908.8288
5107	FLEET MECHANIC II	NE	STEP 4	61.7588	4940.7008	10704.8518	128458.2216
5107	FLEET MECHANIC II	NE	STEP 5	64.5256	5162.0494	11184.4404	134213.2848
5033	MGMT ANALYST I	NE	STEP 1	49.3143	3945.1420	8547.8077	102573.6921



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5033	MGMT ANALYST I	NE	STEP 2	51.5537	4124.2952	8935.9729	107231.6742
5033	MGMT ANALYST I	NE	STEP 3	53.8374	4306.9929	9331.8179	111981.8151
5033	MGMT ANALYST I	NE	STEP 4	56.2685	4501.4832	9753.2136	117038.5630
5033	MGMT ANALYST I	NE	STEP 5	58.7734	4701.8746	10187.3950	122248.7405
2022	MGMT ANALYST II	E	STEP 1	54.1470	4331.7615	9385.4833	112625.8000
2022	MGMT ANALYST II	E	STEP 2	56.6075	4528.6035	9811.9742	117743.6900
2022	MGMT ANALYST II	E	STEP 3	59.1270	4730.1635	10248.6875	122984.2500
2022	MGMT ANALYST II	E	STEP 4	61.7938	4943.5015	10710.9200	128531.0400
2022	MGMT ANALYST II	E	STEP 5	64.5488	5163.9046	11188.4600	134261.5200
5230	OFFICE ASSISTANT I	NE	STEP 1	27.2343	2178.7447	4720.6136	56647.3632
5230	OFFICE ASSISTANT I	NE	STEP 2	28.4470	2275.7565	4930.8057	59169.6684
5230	OFFICE ASSISTANT I	NE	STEP 3	29.6871	2374.9692	5145.7667	61749.2004
5230	OFFICE ASSISTANT I	NE	STEP 4	31.0505	2484.0367	5382.0796	64584.9552
5230	OFFICE ASSISTANT I	NE	STEP 5	32.4414	2595.3148	5623.1820	67478.1840
5430	OFFICE ASSISTANT II	NE	STEP 1	32.8387	2627.0990	5692.0478	68304.5736
5430	OFFICE ASSISTANT II	NE	STEP 2	34.4762	2758.0960	5975.8746	71710.4952
5430	OFFICE ASSISTANT II	NE	STEP 3	36.2027	2896.2190	6275.1411	75301.6932
5430	OFFICE ASSISTANT II	NE	STEP 4	38.0116	3040.9260	6588.6731	79064.0772
5430	OFFICE ASSISTANT II	NE	STEP 5	39.9163	3193.3011	6918.8190	83025.8280
5460	SYSTEMS ANALYST I	NE	STEP 1	53.2282	4258.2529	9226.2147	110714.5764
5460	SYSTEMS ANALYST I	NE	STEP 2	55.6183	4449.4669	9640.5116	115686.1392
5460	SYSTEMS ANALYST I	NE	STEP 3	58.0945	4647.5597	10069.7126	120836.5512
5460	SYSTEMS ANALYST I	NE	STEP 4	60.7709	4861.6729	10533.6246	126403.4952
5460	SYSTEMS ANALYST I	NE	STEP 5	63.4758	5078.0632	11002.4703	132029.6436
2033	SYSTEMS ANALYST II	E	STEP 1	61.5375	4923.0023	10666.5050	127998.0600
2033	SYSTEMS ANALYST II	E	STEP 2	64.2866	5142.9250	11143.0042	133716.0500
2033	SYSTEMS ANALYST II	E	STEP 3	67.1868	5374.9412	11645.7058	139748.4700
2033	SYSTEMS ANALYST II	E	STEP 4	70.2380	5619.0415	12174.5900	146095.0800
2033	SYSTEMS ANALYST II	E	STEP 5	73.3949	5871.5942	12721.7875	152661.4500



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JOB CODE	TITLE	STEPS	HOURLY
9504	ADMINISTRATIVE ASSIST PDM	STEP 1	37.6000
9504	ADMINISTRATIVE ASSIST PDM	STEP 2	39.2900
9504	ADMINISTRATIVE ASSIST PDM	STEP 3	41.0500
9504	ADMINISTRATIVE ASSIST PDM	STEP 4	42.8900
9504	ADMINISTRATIVE ASSIST PDM	STEP 5	44.8400
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 1	45.0700
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 2	47.0600
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 3	49.2100
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 4	51.4600
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 5	53.7400
9604	CENTRAL SERVICES WORKER PDM	STEP 1	25.0500
9604	CENTRAL SERVICES WORKER PDM	STEP 2	26.1800
9604	CENTRAL SERVICES WORKER PDM	STEP 3	27.3500
9604	CENTRAL SERVICES WORKER PDM	STEP 4	28.5800
9316	DEPUTY FIRE MARSHAL PDM	STEP 1	79.5900
9316	DEPUTY FIRE MARSHAL PDM	STEP 2	83.1100
9316	DEPUTY FIRE MARSHAL PDM	STEP 3	86.9400
9316	DEPUTY FIRE MARSHAL PDM	STEP 4	90.8600
9316	DEPUTY FIRE MARSHAL PDM	STEP 5	94.9000
9963	FIRE BATTALION CHIEF 40 PDM	STEP 1	103.7200
9963	FIRE BATTALION CHIEF 40 PDM	STEP 2	108.7100
9963	FIRE BATTALION CHIEF 40 PDM	STEP 3	113.9500
9963	FIRE BATTALION CHIEF 40 PDM	STEP 4	119.4500
9963	FIRE BATTALION CHIEF 40 PDM	STEP 5	125.2300
9964	FIRE BATTALION CHIEF 56 PDM	STEP 1	74.0900
9964	FIRE BATTALION CHIEF 56 PDM	STEP 2	77.6500
9964	FIRE BATTALION CHIEF 56 PDM	STEP 3	81.4000
9964	FIRE BATTALION CHIEF 56 PDM	STEP 4	85.3200
9964	FIRE BATTALION CHIEF 56 PDM	STEP 5	89.4500
9250	FIRE CHIEF PDM	STEP 1	141.8800
9250	FIRE CHIEF PDM	STEP 2	148.9700



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9250	FIRE CHIEF PDM	STEP 3	156.4300
9962	FIRE CHIEF SPECIALIST PDM	STEP 1	101.7400
9962	FIRE CHIEF SPECIALIST PDM	STEP 2	106.8300
9962	FIRE CHIEF SPECIALIST PDM	STEP 3	112.1700
9317	FIRE PREVENTION INSP I PDM	STEP 1	62.8800
9317	FIRE PREVENTION INSP I PDM	STEP 2	65.7200
9317	FIRE PREVENTION INSP I PDM	STEP 3	68.7300
9317	FIRE PREVENTION INSP I PDM	STEP 4	71.8100
9317	FIRE PREVENTION INSP I PDM	STEP 5	75.0200
9202	MGMT ANALYST I PDM	STEP 1	49.3200
9202	MGMT ANALYST I PDM	STEP 2	51.5500
9202	MGMT ANALYST I PDM	STEP 3	53.8400
9202	MGMT ANALYST I PDM	STEP 4	56.2700
9202	MGMT ANALYST I PDM	STEP 5	58.7700
9222	MGMT ANALYST II PDM	STEP 1	54.1400
9222	MGMT ANALYST II PDM	STEP 2	56.6200
9222	MGMT ANALYST II PDM	STEP 3	59.1300
9222	MGMT ANALYST II PDM	STEP 4	61.7800
9222	MGMT ANALYST II PDM	STEP 5	64.5500
9511	OFFICE ASSISTANT I PDM	STEP 1	27.2300
9511	OFFICE ASSISTANT I PDM	STEP 2	28.4400
9511	OFFICE ASSISTANT I PDM	STEP 3	29.6800
9511	OFFICE ASSISTANT I PDM	STEP 4	31.0400
9511	OFFICE ASSISTANT I PDM	STEP 5	32.4300
9513	OFFICE ASSISTANT II PDM	STEP 1	32.8400
9513	OFFICE ASSISTANT II PDM	STEP 2	34.4800
9513	OFFICE ASSISTANT II PDM	STEP 3	36.2000
9513	OFFICE ASSISTANT II PDM	STEP 4	38.0100
9513	OFFICE ASSISTANT II PDM	STEP 5	39.9100
9269	PROJECT MANAGER I PDM	STEP 1	54.6200
9269	PROJECT MANAGER I PDM	STEP 2	57.0600
9269	PROJECT MANAGER I PDM	STEP 3	59.6500



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9269	PROJECT MANAGER I PDM	STEP 4	62.3200
9269	PROJECT MANAGER I PDM	STEP 5	65.1300
9267	PROJECT MANAGER II PDM	STEP 1	60.3100
9267	PROJECT MANAGER II PDM	STEP 2	62.9700
9267	PROJECT MANAGER II PDM	STEP 3	65.8200
9267	PROJECT MANAGER II PDM	STEP 4	68.8000
9267	PROJECT MANAGER II PDM	STEP 5	71.8700
9268	PROJECT MANAGER SR PDM	STEP 1	66.3400
9268	PROJECT MANAGER SR PDM	STEP 2	69.2900
9268	PROJECT MANAGER SR PDM	STEP 3	72.4200
9268	PROJECT MANAGER SR PDM	STEP 4	75.6800
9268	PROJECT MANAGER SR PDM	STEP 5	79.0700
9911	STUDENT INTERN PDM	STEP 1	20.0000
9911	STUDENT INTERN PDM	STEP 2	21.0000
9911	STUDENT INTERN PDM	STEP 3	22.0500
9911	STUDENT INTERN PDM	STEP 4	23.1500
9911	STUDENT INTERN PDM	STEP 5	24.3100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 1	77.3500
9230	SYSTEMS NETWORK MANAGER PDM	STEP 2	80.8400
9230	SYSTEMS NETWORK MANAGER PDM	STEP 3	84.5100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 4	88.3100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 5	92.2400



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JOB CODE	TITLE	STEPS	HOURLY
9504	ADMINISTRATIVE ASSIST PDM	STEP 1	37.6000
9504	ADMINISTRATIVE ASSIST PDM	STEP 2	39.2900
9504	ADMINISTRATIVE ASSIST PDM	STEP 3	41.0500
9504	ADMINISTRATIVE ASSIST PDM	STEP 4	42.8900
9504	ADMINISTRATIVE ASSIST PDM	STEP 5	44.8400
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 1	45.0700
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 2	47.0600
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 3	49.2100
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 4	51.4600
9500	ADMINISTRATIVE TECHNICIAN PDM	STEP 5	53.7400
9604	CENTRAL SERVICES WORKER PDM	STEP 1	25.0500
9604	CENTRAL SERVICES WORKER PDM	STEP 2	26.1800
9604	CENTRAL SERVICES WORKER PDM	STEP 3	27.3500
9604	CENTRAL SERVICES WORKER PDM	STEP 4	28.5800
9316	DEPUTY FIRE MARSHAL PDM	STEP 1	79.5900
9316	DEPUTY FIRE MARSHAL PDM	STEP 2	83.1100
9316	DEPUTY FIRE MARSHAL PDM	STEP 3	86.9400
9316	DEPUTY FIRE MARSHAL PDM	STEP 4	90.8600
9316	DEPUTY FIRE MARSHAL PDM	STEP 5	94.9000
9963	FIRE BATTALION CHIEF 40 PDM	STEP 1	103.7200
9963	FIRE BATTALION CHIEF 40 PDM	STEP 2	108.7100
9963	FIRE BATTALION CHIEF 40 PDM	STEP 3	113.9500
9963	FIRE BATTALION CHIEF 40 PDM	STEP 4	119.4500
9963	FIRE BATTALION CHIEF 40 PDM	STEP 5	125.2300
9964	FIRE BATTALION CHIEF 56 PDM	STEP 1	74.0900
9964	FIRE BATTALION CHIEF 56 PDM	STEP 2	77.6500
9964	FIRE BATTALION CHIEF 56 PDM	STEP 3	81.4000
9964	FIRE BATTALION CHIEF 56 PDM	STEP 4	85.3200
9964	FIRE BATTALION CHIEF 56 PDM	STEP 5	89.4500
9250	FIRE CHIEF PDM	STEP 1	150.3900
9250	FIRE CHIEF PDM	STEP 2	157.9100

Fire Chief tied 6% salary increase.



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9250	FIRE CHIEF PDM	STEP 3	165.8200
9962	FIRE CHIEF SPECIALIST PDM	STEP 1	101.7400
9962	FIRE CHIEF SPECIALIST PDM	STEP 2	106.8300
9962	FIRE CHIEF SPECIALIST PDM	STEP 3	112.1700
9317	FIRE PREVENTION INSP I PDM	STEP 1	62.8800
9317	FIRE PREVENTION INSP I PDM	STEP 2	65.7200
9317	FIRE PREVENTION INSP I PDM	STEP 3	68.7300
9317	FIRE PREVENTION INSP I PDM	STEP 4	71.8100
9317	FIRE PREVENTION INSP I PDM	STEP 5	75.0200
9202	MGMT ANALYST I PDM	STEP 1	49.3200
9202	MGMT ANALYST I PDM	STEP 2	51.5500
9202	MGMT ANALYST I PDM	STEP 3	53.8400
9202	MGMT ANALYST I PDM	STEP 4	56.2700
9202	MGMT ANALYST I PDM	STEP 5	58.7700
9222	MGMT ANALYST II PDM	STEP 1	54.1400
9222	MGMT ANALYST II PDM	STEP 2	56.6200
9222	MGMT ANALYST II PDM	STEP 3	59.1300
9222	MGMT ANALYST II PDM	STEP 4	61.7800
9222	MGMT ANALYST II PDM	STEP 5	64.5500
9511	OFFICE ASSISTANT I PDM	STEP 1	27.2300
9511	OFFICE ASSISTANT I PDM	STEP 2	28.4400
9511	OFFICE ASSISTANT I PDM	STEP 3	29.6800
9511	OFFICE ASSISTANT I PDM	STEP 4	31.0400
9511	OFFICE ASSISTANT I PDM	STEP 5	32.4300
9513	OFFICE ASSISTANT II PDM	STEP 1	32.8400
9513	OFFICE ASSISTANT II PDM	STEP 2	34.4800
9513	OFFICE ASSISTANT II PDM	STEP 3	36.2000
9513	OFFICE ASSISTANT II PDM	STEP 4	38.0100
9513	OFFICE ASSISTANT II PDM	STEP 5	39.9100
9269	PROJECT MANAGER I PDM	STEP 1	54.6200
9269	PROJECT MANAGER I PDM	STEP 2	57.0600
9269	PROJECT MANAGER I PDM	STEP 3	59.6500

Fire Chief tied 6% salary increase.



SAN MATEO CONSOLIDATED FIRE DEPARTMENT EFFECTIVE DATE: 07/20/2025
PER DIEM SALARY SCHEDULE

9269	PROJECT MANAGER I PDM	STEP 4	62.3200
9269	PROJECT MANAGER I PDM	STEP 5	65.1300
9267	PROJECT MANAGER II PDM	STEP 1	60.3100
9267	PROJECT MANAGER II PDM	STEP 2	62.9700
9267	PROJECT MANAGER II PDM	STEP 3	65.8200
9267	PROJECT MANAGER II PDM	STEP 4	68.8000
9267	PROJECT MANAGER II PDM	STEP 5	71.8700
9268	PROJECT MANAGER SR PDM	STEP 1	66.3400
9268	PROJECT MANAGER SR PDM	STEP 2	69.2900
9268	PROJECT MANAGER SR PDM	STEP 3	72.4200
9268	PROJECT MANAGER SR PDM	STEP 4	75.6800
9268	PROJECT MANAGER SR PDM	STEP 5	79.0700
9911	STUDENT INTERN PDM	STEP 1	20.0000
9911	STUDENT INTERN PDM	STEP 2	21.0000
9911	STUDENT INTERN PDM	STEP 3	22.0500
9911	STUDENT INTERN PDM	STEP 4	23.1500
9911	STUDENT INTERN PDM	STEP 5	24.3100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 1	77.3500
9230	SYSTEMS NETWORK MANAGER PDM	STEP 2	80.8400
9230	SYSTEMS NETWORK MANAGER PDM	STEP 3	84.5100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 4	88.3100
9230	SYSTEMS NETWORK MANAGER PDM	STEP 5	92.2400



STAFF REPORT

To: San Mateo Consolidated Fire Department Board of Directors

From: Matt Turturici, Fire Chief

Meeting Date: September 17, 2025

Subject: San Mateo Consolidated Fire Ordinance

RECOMMENDATION

Introduce an ordinance 2025-003 adopting changes to Ordinance 2022-001 and the 2025 California Wildland-Urban Interface Code (CWUIC), also known as Title 24, Part 7 and the 2025 California Fire Code with local amendments.

BACKGROUND

Every 3 years, the California Building Standards Commission updates and adopts the newest California Building Standards Code. This code automatically became effective on January 1, 2023. The San Mateo Consolidated Fire Department (SMC Fire) Board of Directors last adopted the 2022 California Fire Code and 2021 Wildland Urban Interface Code with local amendments on October 12, 2022.

The JPA Agreement stipulates that SMC Fire is required to “enforce all fire codes within the jurisdictions which they serve.

Sections 1 and 2.14 of the JPA Agreement specify that SMC Fire is responsible for “Fire and Emergency Medical Services”, including:

The provision of fire suppression, fire prevention, investigation, rescue, training, public education, disaster preparedness, emergency medical services, hazardous materials response and directly related activities”. Under this authority, the Board of Directors has the ability to approve Fire Code Ordinances within their respective jurisdiction.

ANALYSIS

The existing Fire Code ordinance was introduced at a public hearing during the August 31, 2022 Fire Board meeting. SMC Fire provides the Fire Board with the proposed changes to the code in order to stay in line with State law and maintain the amendments currently in place from the last adopted ordinance. This ordinance also includes the Wildland Ordinance adopted in 2019, the Local Responsibility Area (LRA) map adoption and fire code amendments made in 2025 combining documents into one for this adoption.

There are two significant changes to the 2025 local fire code amendments.

The first change is that the State has adopted the California Wildland-Urban Interface Code as Title 24, Part 7 and deleted Chapter 49 from the California Fire Code.

The second change is that SMC Fire previously prohibited NFPA 13R sprinkler systems. In this Ordinance, the prohibition has been removed to allow contractors to have greater flexibility in design.

All other changes were formatting and updating the fire code sections to match the newly adopted California Fire Code sections.

NOTICE PROVIDED

This ordinance shall be published in summary in the San Francisco Examiner, posted in the San Mateo Fire Administrative Office and the Fire Prevention Office, and shall be effective 30 days after the date of adoption.

ATTACHMENTS

- A. Ordinance
- B. Findings in Support of Ordinance

**SAN MATEO CONSOLIDATED FIRE DEPARTMENT
FIRE CODE**

ORDINANCE NO. ORD-2025-003

**ESTABLISHING THE SAN MATEO CONSOLIDATED FIRE DEPARTMENT FIRE
CODE BY ADOPTING THE ~~2021~~ 2024 INTERNATIONAL FIRE CODE WITH THE
~~2022-2025~~ CALIFORNIA FIRE CODE AMENDMENTS AND THE ~~2021~~ 2024
INTERNATIONAL WILDLAND URBAN INTERFACE CODE WITH THE 2025
CALIFORNIA WILDLAND –URBAN INTERFACE CODE AND LOCAL FINDINGS
AND MODIFICATIONS**

The San Mateo Consolidated Fire Department Board of Directors HEREBY ORDAINS
THE FOLLOWING:

PARTS

- I. Adoption
- II. Applicability
- III. Modifications
 - a. Division 1- Modifications to the California Fire Code
 - b. Division 2- Adoption and Modifications to the ~~International~~ California Wildland Urban Interface Code
- IV. Violations
- V. Fire and Life Safety Inspections
- VI. Local Findings and Amendments
- VII. Environmental Determination
- VIII. Notice Provided; Effective Date

PART I- ADOPTION

- A. The San Mateo Consolidated Fire Department hereby adopts the ~~2022-2025~~ California Fire Code (California Code of Regulations, Title 24, Part, 9 [based on the ~~2021-2024~~ International Fire Code published by the International Code Council]), with California Amendments and the ~~2021-2024~~ International Wildland Urban Interface Code as amended and as specified in part III of this ordinance. Those chapters and appendices not mentioned in section III are only enforceable if adopted by the State Fire Marshal. The ~~2022-2025~~ California Fire Code, with the changes, additions, and deletions set forth this ordinance, is adopted by this reference as though fully set forth in this ordinance. As of the effective date of this ordinance, the provisions of the fire code are controlling and enforceable within the limits of each city within the jurisdiction of the Department.
- B. The ~~2022-2025~~ California Fire Code (CFC), California Code of Regulations, Title 24, Part 9, adopting the ~~2021-2024~~ International Fire Code of the International Code Council with necessary California amendments, together with the non-building standards reproduced therein except otherwise provided by this ordinance, are adopted by reference as the Fire Code of the San Mateo Consolidated Fire Department. This Code including all amendments thereto, shall hereafter be called the “Fire Code,” and/or this “Code” and are adopted as and for the rules, regulations, and standards within the Jurisdiction as to all matters therein, except otherwise provided.
- C. No section of the Fire Prevention Code shall impose a mandatory duty of enforcement on the Jurisdiction, or on any officer, official, agent, employee, board, council, or commission thereof. Instead, if any section purports to impose a mandatory duty of enforcement, said section shall be deemed to invest the Jurisdiction, and the appropriate officer, official, agent, employee, board, council, or commission with discretion to enforce the section, or not to enforce it.
- D. A copy of the Fire Code, as defined herein, shall be kept on file on with the office of the San Mateo Consolidated Fire Department Fire Marshal.
- E. The San Mateo Consolidated Fire Department has determined that modifications to the ~~2021-2024~~ International Fire Code with the ~~2022-2025~~ California Amendments are needed and reasonably necessary due to local climatic, geological, and topographical conditions, as set forth in Attachment 1 (Findings in Support of Amendments to the ~~2022-2025~~ California Fire Code), which are incorporated fully herein.

PART II- APPLICABILITY

- A. All sections of this Code shall apply to all buildings, structures and portions thereof, and to replace premise or building.
- B. Whenever any provision of this Chapter code or in any other law, ordinance, or resolution of any kind, impose overlapping or contradictory regulations, or contain any restrictions covering the same subject matter, the provision that is more restrictive or imposes higher standards or requirements shall govern.
- C. For purposes of delegation of enforcement, the Building Official of the city is empowered to enforce Chapter 5 CWUI Title 24, Part 7.

PART III- ADOPTION OF SECTIONS AND MODIFICATIONS

Division 1: Modifications to the California Fire Code

The following sections are adopted as described below.

Chapter 1 is adopted in its entirety as amended below.

SECTION 101.1 TITLE. AMENDED

101.1 Title. These regulations shall be known as the 2025 CALIFORNIA FIRE CODE, and with amendments adopted by the SAN MATEO CONSOLIDATED FIRE DEPARTMENT (SMCFD), will be referred to herein as this “CODE,” and/or “FIRE CODE.”

SECTION 102.3 CHANGE OF USE OR OCCUPANCY. AMENDED

102.3 A change of occupancy shall not be made unless the use or occupancy is made to comply with the requirements of this code and the California Existing Building Code. Any change in use or occupancy creating a more hazardous fire/life safety condition, as determined by the Fire Code Official requires that an automatic fire sprinkler system be installed. For purposes of this section, the relative hazard categories table 1011.5 of the International Existing Building Code, herein incorporated by reference.

SECTION 102.6 HISTORIC BUILDINGS. AMENDED

102.6 The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or

local jurisdiction as historic buildings where such buildings or structures do not constitute a distinct hazard to life or property. Fire protection in designated historic buildings shall be provided in accordance with the California Historic Building Code.

SECTION 103.1 CREATION OF AGENCY. AMENDED

[A] 103.1.1 Creation of agency. The San Mateo Consolidated Fire Department is hereby created and the official in charge thereof shall be known as the fire code official. The function of the agency shall be the implementation, administration, and enforcement of the provisions of this code.

SECTION 103.2 APPOINTMENT. DELETED

SECTION 104.7 OFFICIAL RECORDS. AMENDED

104.7 Official records. The fire code official shall keep official records as required by the San Mateo Consolidated Fire Department's Record Retention Schedule, and Title 24, Part 1, The California Administrative Code. Requests for records shall be in accordance with the California Public Records Act.

SECTIONS 104.7.1 THROUGH SECTION 104.7.6 DELETED

SECTION 105.3.1 EXPIRATION. AMENDED.

An operational permit shall remain in effect until reissued, renewed or revoked, or at the next annual inspection. Construction permits shall automatically become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced. Before such work recommences, a new permit shall be first obtained and the fee to recommence work shall be as per the SMCFD Fee Schedule, Permit Reinstatement Fee, provided that changes have not been made and will not be made in the original construction documents for such work, and provided further that such suspension or abandonment has not exceeded one year. Permits are not transferable and any change in occupancy, operation, tenancy or ownership shall require that a new permit be issued.

SECTION 105.6 REQUIRED CONSTRUCTION PERMITS. AMENDED.

Section 105.6 Required Construction Permits. The fire code official is authorized to issue construction permits for work as set forth in Sections 105.6.1 through 105.6.26, as well as all required construction permits in Title 24, Parts 2, 2.5, 3, 4, or 5 where enforced by the California State Fire Marshal.

SECTION 108.2 SCHEDULE OF PERMIT FEES AMENDED

108.2 Schedule of permit fees. Where a permit Or other inspection fee is required, a fee for each permit shall be paid as required, in accordance with the San Mateo Consolidated Fire Department Master Fee Schedule.

112 MEANS OF APPEALS AMENDED.

~~109.1~~ ~~112~~ ~~Board~~ Means of Appeals. In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of appeals shall be the Board of Directors for SMCFD, and shall render all decisions and findings in writing to the appellant through the fire code official.

112.3 Qualifications. DELETED.

SECTION 113.4 Violation Penalties. AMENDED

112.4 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be assessed a reinspection fee in accordance with the San Mateo Consolidated Fire Department Master Fee Schedule. Violations that remain unabated after the 5th reinspection shall guilty of an Administrative Violation punishable by a fine of \$130 for the first violation, \$700 for the second violation, and \$1300 dollars for the third and each successive violation in addition to the reinspection fee (Government Code 36900). Each day that a violation continues after due notice has been served shall be deemed a separate offense. Administrative violations shall be appealable thorough the board of appeals in section 109.

Chapter 2 is adopted in its entirety as amended below.

SECTION 202 GENERAL DEFINITIONS. ADDED

All Weather Driving Surface. A roadway designed to carry the imposed weight loads of fire apparatus (Minimum load of 68,000 pounds) and a minimum surface finish of one layer of asphalt or concrete or road pavers.

Alteration. Any work done to a structure that increases the fire area of a room or area.

Driveway. Access road from the public way to a structure that is used for public vehicular access, including fire and emergency vehicles.

SECTION 303 ASPHALT KETTLES IS ADOPTED IN ITS ENTIRETY

SECTION 305 IGNITION SOURCES IS ADOPTED IN ITS ENTIRETY

**SECTION 306 MOTION PICTURE PROJECTION ROOMS AND FILM IS
ADOPTED IN ITS ENTIRETY**

**SECTION 307 OPEN BURNING, RECREATIONAL FIRES, AND PORTABLE
OUTDOOR FIREPLACES IS ADOPTED AS AMENDED BELOW**

SECTION 307.1.1 PROHIBITED OPEN BURNING. AMENDED

307.1.1 Prohibited open burning. Open burning, other than cooking, shall be prohibited.

Exception: [No change]

SECTION 307.4.1 BONFIRES. AMENDED

307.4.1 Bonfires. Bonfires, other than for cooking purposes, shall be prohibited.

SECTION 307.4.2 RECREATIONAL FIRES. AMENDED

307.4.2 Recreational Fires. When approved by the fire code official, recreational fires shall not be conducted within 25 feet (7620 mm) of a structure or combustible material. Conditions that could cause a fire to spread within 25 feet (7620 mm) of the structure shall be eliminated prior to ignition. If allowed, all such fires shall require a fire code permit.

~~SECTION 308.1.4 OPEN FLAME COOKING DEVICES. AMENDED~~

~~308.1.4 Open Flame Cooking Devices. [No change]~~

~~Exceptions:~~

- ~~1. Group R-2, R-3, and R-3.1 occupancies~~
- ~~2. [No change]~~
- ~~3. [No change]~~

SECTION 308.3.2 THEATRICAL PERFORMANCES. AMENDED

308.3.2 Theatrical performances.

Where approved, open-flame devices used in conjunction with theatrical performances are allowed to be used where adequate safety precautions have been taken in accordance with NFPA 160 and Title 19 CCR.

SECTION 309 POWERED INDUSTRIAL TRUCKS AND EQUIPMENT IS ADOPTED

SECTION 310 SMOKING IS ADOPTED

SECTION 311 VACANT PREMISES IS ADOPTED

SECTION 318 LAUNDRY CARTS IS ADOPTED

SECTION 319 ADDITIVE MANUFACTURING (3D PRINTING) IS ADOPTED

SECTION ~~319~~ 324 MOBILE FOOD PREPARATION VEHICLES ADOPTED ~~AS~~

SECTION ~~324.1~~ HEALTH DEPARTMENT APPROVAL. ADDED

~~324.1~~ Health department approval. Mobile food preparation vehicles shall display a San Mateo County health apartment sticker as prescribed by County health.

SECTION 320 BATTERY STORAGE IS ADOPTED

SECTION 321 ARTIFICIAL COMBUSTIBLE VEGETATION IS ADOPTED

SECTION 322 POWERED MICROBILITY DEVICES IS ADOPTED

Chapter 4 is partially adopted with adopted sections listed below. (Sections adopted by the State Fire Marshal remain unchanged unless modified below)

SECTION 405 EMERGENCY EVACUATION DRILLS IS ADOPTED

SECTION 406 EMPLOYEE TRAINING AND RESPONSE PROCEDURES IS ADOPTED

Chapter 5 is adopted in its entirety as amended below.

SECTION 501.1 SCOPE. AMENDED

501.1 Scope. Fire service features for buildings, structures and premises shall comply with this chapter, and appendix D.

SECTION 503.1.1 BUILDINGS AND FACILITIES. AMENDED

503.1.1 Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and Appendix D, and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.

Exceptions: *No Changes*

SECTION 503.3.1 FIRE LANE DESIGNATION. ADDED

503.3.1 Fire Lane Designation. Designation of fire lanes shall be by one of the following means:

1. By a white sign measuring at least twelve inches by eighteen inches (12" x 18") posted immediately adjacent thereto and clearly visible. It should clearly state in red letters not less than one inch (1") in height, that the space is a fire lane and parking is prohibited. Fire lane signs shall be spaced at a minimum of 50 feet apart.
2. By outlining and hash marking the area in contrasting colors clearly marking it with the words "Fire Lane - No Parking."
3. By identifying the space with a red curb upon which the words "Fire Lane - No Parking" are stenciled every 15 feet.
 - a. Both sides of fire lanes shall be red curbed when the fire lane is twenty (20) feet to twenty-eight (28) feet in width.
 - b. At least one side of a fire lane shall be red curbed and stenciled when the fire lane is over twenty-eight (28) and up to thirty-six (36) feet in width.
 - c. Curbs need not be painted red nor stenciled when the fire lane is more than thirty-six (36) feet in width.

SECTION 505.1.1 MULTI-TENANT BUILDINGS. ADDED

505.1.1 Multi -Tenant Buildings. Numbers or letters shall be designated on all occupancies within a building. Size shall be one-half inch (1/2") stroke by four inches (4") high and on a contrasting background. Directional address numbers or letters shall be provided. Said addresses or numbers shall visible from the street posted at a minimum

height of 5 feet, 6 inches (5' 6") above the finished floor, shall be visible from the street and shall be either internally or externally illuminated in all new construction.

SECTION 505.1.2 MULTIPLE BUILDINGS ON ONE SITE. ADDED

505.1.2 Multiple buildings on one site. Where multiple buildings on one property the buildings cannot be viewed from the public way, a monument sign, or other signs or other approved means shall be used to identify the entry to the given structure. Address identification shall be maintained on each of the buildings within the site.

SECTION 505.1.3 REAR ADDRESSING. ADDED

505.1.3 Rear Addressing. When required by the chief, approved numbers or addresses shall be placed on all new and existing buildings in such a position as to be plainly visible and legible from the fire apparatus road at the back of a property or where rear parking lots or alleys provide an acceptable vehicular access. Number stroke and size shall comply with 505.1.

Chapter 5 is adopted in its entirety ~~as adopted in ordinance 2022-001~~ and further amended below.

SECTION 506.1 LOCKS. MODIFIED

506.1 Where required.

Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or firefighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be manufactured by the Knox Company, and shall contain keys to gain necessary access the location as required by the fire code official.

506.1.1 An approved lock shall be installed on doors, gates or similar barriers where required by the fire code official.

506.1.2 (Remains unchanged).

506.1.3 Existing Key boxes not manufactured by the Knox company shall be replaced under the following circumstances:

1. In all Multi-residential buildings subject to the mandatory inspection requirements in Health and Safety Code section 13146.2
2. In all other occupancy types, work done on any structure requiring a permit in accordance with Section 105 of any part of Title 24.

Exception R-3 Occupancies

506.1.4 Existing Key boxes manufactured by the Knox company with the incorrect lock cylinder shall have their cylinders replaced under the following circumstances:

1. In all Multi-residential buildings subject to the mandatory inspection requirements in Health and Safety Code section 13146.2
2. In all other occupancy types, work done on any structure requiring a permit in accordance with Section 105 of any part of Title 24.

Exception R-3 Occupancies

SECTION 506.1.1.2 GATES. ADDED

506.1.1.2 Gates. Where a new gate or barrier is installed on a fire access roadway, the fire department shall have emergency access by means of a padlock, key switch or other approved means.

Exception:

1. Driveways serving a single R-3 occupancy

SECTION 508.2 FIRE CONTROL ROOM. ADDED

508.2 Fire control room. An approved fire control room shall be provided for all new buildings or occupancies with a change of use, requiring protection by an automatic fire sprinkler system. The room shall contain the sprinkler riser, fire alarm control panels, ERCES control equipment, and other fire equipment required by the Fire Chief. Fire control rooms shall be located within the building at a location approved by the Fire Chief, and shall be provided at grade with a means to access the room directly from the exterior. Durable signage shall be provided on the exterior side of the access door to identify the fire control room. Fire Control Rooms shall not be less than 35 square feet.

Exceptions:

1. Group R, Division 3 Occupancies.
2. Occupancies with a fire pump shall have a fire control room that is a minimum of 200 square feet.
3. In high-rise buildings, the fire control room shall not be less than 200 square feet.

**SECTION 510.1 EMERGENCY RESPONDER COMMUNICATION.
COVERAGE IN NEW BUILDINGS. MODIFIED**

510.1 Emergency responder communication coverage in new buildings.

Approved in-building, two-way emergency responder communication coverage for emergency responders shall be provided in all new buildings. In-building, two-way emergency responder communication coverage within the building shall be based on the existing coverage levels of the public safety communication systems utilized by the jurisdiction, measured at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

Exceptions:

1. Where approved by the fire code official, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained instead of an approved radio coverage system.
2. Where it is determined by the fire code official that the radio coverage system is not needed.
3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

510.4.2 System design.

The in-building, two-way emergency responder communication coverage system shall be designed in accordance with Sections 510.4.2.1 through 510.4.2.10 and NFPA 1225.

SECTION 510.4.2.10UL CERTIFICATION. ADDED

~~510.4.2.9~~ **510.4.2.10** UL CERTIFICATION. New ERCES systems shall be UL-Certified. A Certificate of Completion and other documentation as listed in NFPA 72 shall be provided for all new fire alarm system installations. It is the responsibility of the building owner or owner's representative to obtain and maintain a current and valid Certificate.

SECTION 510.4.2.10 POWER SWITCH. ADDED

510.4.2.10 Power Switch. A keyed power switch shall be installed in the system allowing for power to the system to be easily turned on or off. The default condition will be for the system to be off unless otherwise specified by the inspector during the final inspection.

SECTION ~~510.5.2-510.2.2.3~~ 510.5.3 MINIMUM QUALIFICATIONS OF PERSONNEL. MODIFIED

~~510.5.2~~ 510.5.3 Minimum qualifications of personnel.

~~510.2.1~~ **510.5.3.1** Designers. The minimum qualifications of the system designer for both new and existing buildings shall be all of the following:

1. A valid FCC issued general radio operator's license.

2. Certification of in building system training issued by an approved organization or approved school, or a certificate issued by the manufacturer of the equipment being installed.

3. Certification by a nationally recognized testing or certification agency (For example, NICET)

510.5.3.2 Installing personnel. Installation of approved ERRC systems shall be conducted by a State Licensed C-7, C-10, or C-16 contractor.

510.5.3.3 Testing personnel. For system acceptance and annual testing, personnel shall be certified by a professional certification agency approved by the authority having jurisdiction. (IEEE, NICET, etc.)

Chapter 9 is adopted in its entirety as amended below.

**~~SECTION 901.6.3.2 RECORDS REPORTING.~~ 901.6.3.2 RECORDS,
RECORDS INFORMATION AND SYSTEMS OUT OF SERVICE ADDED**

901.6.3.2 Records Reporting. Fire detection, alarm and extinguishing systems, shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Non-required fire protection systems and equipment shall be inspected, tested, and maintained or removed in accordance with the appropriate standard. All inspection, testing and maintenance reports shall be forwarded to the Fire Department using electronic media to the designated third party Paper (hard copy) reports are not permitted.

SECTIONS 903.2.1 THROUGH 903.2.10 ARE DELETED

~~SECTION 903.3.1.2 NFPA-13R SPRINKLER~~

~~SYSTEMS. AMENDED 903.3.1.2 NFPA 13 sprinkler systems. Automatic sprinkler systems in Group R occupancies shall be installed throughout in accordance with 903.3.1.1. Exception: R-3 occupancies shall have an automatic sprinkler system installed in accordance with NFPA 13D~~

NOTE: SECTION 903.3.1, 903.3.1.3 AND 903.4.3 IS A CARRY OVER FROM PREVIOUS ADOPTIONS. THE LIMITS OF AB-130 DO NOT APPLY.

SECTION ~~903.2.20~~ 903.3.1 AUTOMATIC SPRINKLER SYSTEMS - EXISTING BUILDINGS AND STRUCTURES. ~~ADDED~~ AMENDED

~~903.2.20~~ 903.3.1 Existing Buildings and Structures. Proposed addition, alterations or fire repairs in existing non-sprinklered buildings over a three-year period exceeding 50% of the original gross floor area square footage shall require the entire building to be installed with an automatic fire sprinkler system as follows;

1. Any additions that increase the existing gross floor area by more than 50% require the entire building to be installed with an automatic fire sprinkler system.
2. Any combination of additions, alterations and/or fire repairs to more than 50% of the existing gross building area requires the entire existing building to be installed with an automatic fire sprinkler system. For purposes of this section, alterations shall only apply to the building area if they increase the size of the fire area of the room or space. See the Policy Manual for further guidance.
3. Any addition, alteration and/or repair within a building that contains an automatic fire sprinkler system shall have the automatic fire sprinkler system extended/modified to the area of proposed work.
4. Any change in use or occupancy creating a more hazardous fire/life safety condition, as determined by the Fire Code Official requires that an automatic fire sprinkler system be installed. For purposes of this section, the relative hazard category shall be in accordance with table 903.2.20 based on table 1011.5 of the International Existing Building Code.

Table 903.2.20

Relative Hazard	Occupancy Class
1 (Highest Hazard)	H, L
2	I-2, I-2.1, I-3, I-4
3	A, C, E, M, R-1, R-2, R-2.1, R-4
4	B, F-1, M, S-1, R-3, R-3.1
5 (Lowest Hazard)	F-2, S-2, U

Exceptions:

1. Seismic or accessibility improvements
2. Any exemption otherwise allowable under the Fire Code, as adopted by the San Mateo Consolidated Fire Department at the discretion of the Fire Marshal.
3. Exterior improvements and work not requiring permits as provided in the Building Code.
4. Detached Group U occupancies or detached carports less than 400 square feet.
5. Work requiring only a mechanical, electrical, plumbing and/or demolition permit.
6. Group R-3.1 occupancies unless already containing a fire sprinkler system.

SECTION 903.3.1.3 NFPA 13D SPRINKLER SYSTEMS. AMENDED

903.3.1.3 NFPA 13D sprinkler systems. Automatic Sprinkler systems installed in one-and two-family dwellings; Group R-3; and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D as amended in Chapter 80. NFPA 13D sprinkler systems shall also comply with section 903.4.2 Alarms.

SECTION ~~903.4.2~~ 903.4.3 ALARMS. AMENDED

~~903.4.2~~ 903.4.3 Alarms. One approved audible and visual devices shall be connected to every automatic sprinkler system at an approved location. Such sprinkler water-flow alarm devices shall be activated by waterflow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

SECTION 905.3.1 HEIGHT. AMENDED

905.3 [No Change]

1. [No Change]
2. Buildings that are more than 2 stories in height.
3. [No Change]
4. [No Change]

SECTION 907.1.6 FIRE ALARM CERTIFICATION. ADDED

907.1.6 Certification. New fire alarm systems shall be UL-Certified. A Certificate of Completion and other documentation as listed in NFPA 72 shall be provided for all new fire alarm system installations. It is the responsibility of the building owner or owner's representative to obtain and maintain a current and valid Certificate. The protected premise shall be issued a UUFX type certification from Underwriters Laboratories (UL).

SECTION 907.1.6.1 POSTING OF CERTIFICATE. ADDED

907.1.6.1 Posting of Certificate. The UL certificate required in section 907.1.6 shall be posted in a durable transparent cover within 3 feet of the fire alarm control panel within 45 days of the final acceptance test/inspection.

Chapter 12 is adopted in its entirety as adopted in ordinance 2022-001 and further amended below.

1207.1 General.

Stationary and mobile electrical energy storage systems (ESS) shall comply with this section and NFPA 855

Exception: ESS in Group R-3 and R-4 occupancies shall comply with Section 1207.11 and Chapter 15 of NFPA 855.

Chapter 26 is adopted in its entirety without amendment

Chapter 49 is adopted in its entirety as amended below ~~DELETED~~

~~Section 4901.1 is amended as follows~~

~~4901.1 Scope. The mitigation of conditions where a wildfire burning in vegetative fuels may readily transmit fire to buildings and threaten to destroy life, overwhelm fire suppression capabilities, or result in large property losses shall comply with this chapter and the 2021 International Wildland Urban Interface Code as adopted by the San Mateo Consolidated Fire Department.~~

~~SECTION 4902 DEFINITIONS. ADDED~~

~~**LOCAL AGENCY HIGH FIRE HAZARD SEVERITY ZONE.** An area designated by the local agency based on a fire assessment conducted by the San Mateo Consolidated Fire Department.~~

~~SECTION 4904.3 LOCAL FIRE HAZARD SEVERITY ZONES. ADDED.~~

~~4904.3 Local Fire Hazard Severity Zones. Local Fire Hazard Severity Zones shall be as determined by the San Mateo Consolidated Fire Department Wildland Fire Assessment conducted in July 2019.~~

**~~SECTION 4905.2 CONSTRUCTION METHODS AND REQUIREMENTS
WITHIN ESTABLISHED LIMITS. AMENDED.~~**

~~4905.2.1 Construction Methods and Requirements Within Established Limits. Within the limits established by law, construction methods intended to mitigate wildfire exposure shall comply with the wildfire protection building construction requirements contained in the California Building Standards Code, including the following:~~

~~California Building Code, Chapter 7A,
California Residential Code, Section R337,
California Referenced Standards Code, Chapter 12-7A.~~

~~4905.2.2 Additions to structures. If an addition to a structure exceeds 50% of the original square footage and the structure is in a designated fire hazard zone of high or very high, the structure shall meet the requirements of California Department of Forestry and Fire Protection's Low Cost Retrofit List. (Attached)~~

**~~SECTION 4905.3.1 LOCAL FIRE HAZARD SEVERITY ZONE
REQUIREMENTS. ADDED~~**

~~SECTION 4905.3.1 LOCAL AGENCY MODERATE FIRE HAZARD SEVERITY ZONE REQUIREMENTS.~~

~~4905.3.1 Local fire hazard severity zone requirements. Buildings constructed in local Agency Fire Hazard Severity Zones considered to be "High" or "Very High" shall comply with section 4905.2.~~

~~SECTION 4906.2 APPLICATION. AMENDED~~

~~4906.2 Application. [No change]~~

~~1. [No change]~~

~~1.1. [No change]~~

~~1.2. [No Change]~~

~~1.3. [No Change]~~

~~2. All land designated by the San Mateo Consolidated Fire Department Wildland Fire Assessment in one of the following zones:~~

~~2.1. Moderate~~

~~2.2. High~~

~~2.3. Very High~~

~~SECTION 4907.1 GENERAL. AMENDED~~

~~4907.1 General. Defensible space will be maintained around all buildings and structures in State Responsibility Areas (SRA) as required in Public Resources Code 4290 and “SRA Fire Safe Regulations” California Code of Regulations, Title 14, Division 1.5, Chapter 7, Subchapter 2, Section 1270.~~

~~Buildings and structures within the Local Responsibility Area (LRA) shall maintain defensible space as outlined in Government code sections 51175 through 51189 in moderate, high, and very high fire hazard severity zones as designated by the San Mateo Consolidated Fire Department Wildland Fire Assessment.~~

Chapter 56 is adopted in its entirety as amended below

SECTION 5601.1.3 FIREWORKS. AMENDED

Section 5601.1.3 Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks are prohibited within the jurisdiction of the department.

Exceptions:

1. Storage and handling of fireworks has allowed in section 5604.
2. The use of fireworks for fireworks displays, pyrotechnics before proximate audience, pyrotechnic special effects in motion pictures, television, theatrical, or group entertainment productions as allowed by title 19, Division I, chapter 6 fireworks reprinted in section 5608 and the Health & Safety Code division 11.
3. Snap caps and party poppers classified by the state fire marshal as pyrotechnic devices.

SECTION 5601.1.3.1 FIREWORKS – SEIZURE. ADDED

5601.1.3.1 Fireworks-seizure. The Chief shall seize, remove or cause to be removed at the expense of the owner all stocks of fireworks offered or exposed for sale, stored or held in violation of this code.

SECTION 5601.2.4 FINANCIAL RESPONSIBILITY. AMENDED

5601.2 .4 Financial responsibility. Before a permit is issued pursuant to section 5601.2, the applicant shall file with the jurisdiction a corporate surety bond in the principal sum of \$2 million or a public liability insurance policy for the same amount, for the purpose of the payment of all damages to persons or property which arise from, or are caused by, the conduct of any act authorized by permit upon which any judicial judgment results.

The fire code official is authorized to specify a greater or lesser amount when, in his or her opinion, conditions at the location of use indicate a greater or lesser amount is required. Government entities shall be exempt from this bond requirement.

Exception: fireworks in accordance with California code of regulations, title 19, Division I, chapter 6, see section 5608.

SECTION 5601.9 PROHIBITED AND LIMITED ACTS. ADDED

5601.9 Prohibited and limited acts. The storage of explosive materials is prohibited in all zoning districts except district zone for industrial or agricultural uses. In districts where the storage of explosive materials is permitted, the quantities of explosives and distances shall be in accordance with California fire code section 5601.8

Chapter 57 is adopted in its entirety as amended below.

SECTION 5704.2.9.6.1 LOCATIONS WHERE ABOVE GROUND TANKS ARE PROHIBITED. AMENDED

5704.2.9.6.1 Locations where above-ground tanks are prohibited. Storage of class I and 2 liquids in above-ground tanks is prohibited in all zoning districts except districts zoned for commercial, industrial, or agricultural use.

SECTION 5706.2.4.4 LOCATIONS WHERE ABOVE-GROUND TANKS ARE PROHIBITED. AMENDED

5706.2.4.4 Locations where above-ground tanks are prohibited. Locations where above-ground tanks are prohibited. Storage of class I and 2 liquids in above-ground tanks is prohibited in all zoning districts except districts zoned for commercial, industrial, or agricultural use

Chapter 58 is adopted in its entirety as amended below.

SECTION 5806.2 LIMITATIONS. AMENDED

5806.2 Limitations. The storage of flammable cryogenic fluids in stationary containers outside of buildings is prohibited in any area which is zoned for other than industrial use.

Exception: Hydrogen fuel systems in compliance with section 5806.3 or 5806.4.

Chapter 61 is adopted in its entirety as amended below.

SECTION 6104.2 MAXIMUM CAPACITY WITHIN ESTABLISHED LIMITS. AMENDED

6104.2 Maximum capacity within established limits. The storage of liquefied petroleum gases prohibited in any central business district and in all zoning districts except districts zoned for commercial, industrial, rural, or agricultural uses. The aggregate capacity of any one installation used for the storage of liquefied petroleum gas shall not exceed a water capacity of 2000 gallons (7570 L).

Chapter 80 is adopted in its entirety as adopted in ordinance 2022-001 and further amended below.

Added:

NFPA 855-23 Standard for the Installation of Stationary Energy Storage Systems
1207.1

Appendix B fire flow requirements for buildings is adopted in its entirety as amended below.

NOTE: APPENDIX B IS A CARRY OVER FROM PREVIOUS ADOPTIONS. THE LIMITS OF AB-130 DO NOT APPLY.

TABLE B105.2 REQUIRED FIRE FLOW FOR BUILDINGS OTHER THAN ONE AND 2 FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOMES. AMENDED.

**TABLE B105.2
REQUIRED FIRE FLOW FOR BUILDINGS OTHER THAN ONE AND 2
FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND
TOWNHOUSES**

Automatic Sprinkler System (Design Standard)	Minimum Fire Flow (Gallons Per Minute)	Flow Duration (Hours)
No automatic sprinkler system	Value in Table B 105.1 (2)	Duration in Table B 105.1 (2)
Section 903.3.1.1 of the California Fire Code	50% of the value in table B105.1 (2) ^a	Duration in table B105.1 (2) at the reduced flow rate
Section 903.3.1.2 of the California Fire Code ^c	50% of the value in table B105.1 (2) ^b	Duration in table B105.1 (2) at the reduced flow rate

For SI: 1 gallon per minute equals 3.785 L per minute

- The reduced fire flow shall not be less than 1000 gallons per minute.
- The reduced fire flow shall not be less than 1500 gallons per minute.

- c. Section 903.3.1.2 of the California Fire Code has been amended by the San Mateo Consolidated Fire Department

Appendix C number and distribution of fire hydrants is adopted in its entirety as amended below.

TABLE C 102.1 OF APPENDIX C. AMENDED

TABLE NO. C102.1

NUMBER AND DISTRIBUTION OF FIRE HYDRANTS^f

FIRE FLOW REQUIREMENT (GPM)	MINIMUM NUMBER OF HYDRANTS	AVERAGE SPACING BETWEEN HYDRANTS^{a, b, c, d, e} (Ft.)	MAXIMUM DISTANCE FROM HYDRANT TO ANY POINT ON STREET OR ROADWAY FRONTAGE (Ft.)
1750 or less	1	250	150
2000-2250	2	250	150
2500-3250	3	250	150
3500-4250	4	250	150
4500-5250	5	250	150
5500-5750	6	250	150
6000-6250	6	250	150
6500-7250	7	250	150
7500 or more	8 or more ^c	200	120

For SI: 1 foot equals 304.8 mm, 1 gallon per minute equals 3.785 L per minute.

- a. Reduce by 100 feet for dead-end streets or roadways.
- b. Hydrants shall be required on both sides of the street whenever one or more of the following conditions exist:
 - i. Street has a median center divider that makes access to hydrants difficult, causes a time delay or creates an undue hazard;
 - ii. There are four or more lanes of traffic;
- iii. Width of the street is in excess of 88 feet; or
 - iv. The existing street will be widened or will have a raised median center divider installed in the future pursuant to the General Plan Roadway Improvement Plans.
- c. One hydrant for each 1,000 GPM or fraction thereof.
- d. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants should be provided every 1,000 feet of street to provide for transportation hazards. In addition, there shall be at least one hydrant at each intersection.
- e. Average spacing between hydrants may be extended to 500 feet on streets serving one- and two-family dwellings.

- f. The fire code official is authorized to modify the location, number and distribution of fire hydrants based on site-specific constraints and hazards.

Appendix D Fire Apparatus Access Roads is adopted in its entirety.

NOTE: APPENDIX D IS A CARRY OVER FROM PREVIOUS ADOPTIONS. THE LIMITS OF AB-130 DO NOT APPLY.

Appendix O temporary haunted houses, ghost walks and similar amusement uses is adopted in its entirety

Division 2- Adoption and Modifications to the 2025 CALIFORNIA Wildland Urban Interface Code

The following sections of the 2025 CALIFORNIA Wildland Urban Interface Code are adopted and modified as described below.

Chapter 1 is partially adopted with adopted sections and modifications listed below.

SECTION 101 IS ADOPTED EXCEPT AS MODIFIED AND DELETED AS BELOW:

SECTION 101.1 TITLE. AMENDED

101.1 Title. These regulations shall be known as the Wildland Urban Interface Code of SAN MATEO CONSOLIDATED FIRE DEPARTMENT, will be referred to herein as this “CODE,” and/or “WUI CODE.”

SECTION 104 IS ADOPTED AS AMENDED BELOW:

~~104.11~~ 104.7.3 Alternate Materials, design, and methods. Where alternate materials, design, and methods are to be used, the process listed in section 104.9 of the California Fire Code as adopted by the San Mateo Consolidated Fire Department shall be used.

SECTION 105 IS ADOPTED AS AMENDED BELOW

105.1 permits shall be as set forth in section 105 of the California Fire Code as adopted by the San Mateo Consolidated Fire Department shall be used.

SECTION 107 IS ADOPTED

SECTION 106 IS ADOPTED

~~SECTION 107.5 IS ADDED (In CWUI 106.3)~~

~~107.5 Site Plan. In addition to the requirements for plans in the California Building Code and California Fire Code, site plans shall include topography, width, and percent of grade of access roads, landscape, and vegetation details, locations of structures or building envelopes, existing or proposed overhead utilities, occupancy classification of buildings, types of ignition-resistant construction of buildings, structures, and their appendages, roof classification of buildings and site water supply systems. The code official is authorized to waive or modify the requirement for a site plan where the application for permit is for alteration or repair or where otherwise warranted.~~

~~SECTION 107.6 IS AMENDED BELOW (In CWUI 106.4)~~

~~107.4 Hazardous Vegetation and Fuel Management. Vegetation and fuel management plans required by this code, Chapter 7A of the California Building Code or the California Fire Code shall comply with Section 4906 of the California Fire Code as adopted by the San Mateo Consolidated Fire Department~~

~~SECTION 107.7 IS AMENDED BELOW (In CWUI 106.5)~~

~~107.7 Fire protection plan. Where required by the code official pursuant to Section 405, a fire protection plan shall be prepared and shall be submitted to the code official for review and approved as a part of the plans required for a permit.~~

SECTION 108 IS ADOPTED AS AMENDED BELOW

108.2 Fees. Fees shall be in accordance with the San Mateo Consolidated Fire Department Master Fee Schedule.

Chapter 2 is adopted in its entirety as amended below.

~~**Local agency fire hazard severity zone.** An area in the jurisdiction designated as having a low, medium, high, or very high fire risk as determined by the San Mateo Consolidated Fire Department Wildland Hazard Assessment.~~

LOCAL AGENCY FIRE HAZARD SEVERITY ZONE. Property within a Local Responsibility Area (LRA) served by the San Mateo Consolidated Fire Department that

has been designated by the Office of the State Fire Marshal and/or the San Mateo Consolidated Fire Department as a Moderate, High, or Very High Fire Hazard Severity Zone.

LOCAL AGENCY MODERATE FIRE HAZARD SEVERITY ZONE. An area designated by the local agency based on Fire Hazard Severity Zones as recommended by the California Department of Forestry and Fire Protection pursuant to Government Code Section 51178.

Hazardous Tree: A tree that is dead or otherwise poses a “Fire Hazard” as defined in Title 19 CCR Section 3.14. A tree is not deemed hazardous solely because of its species.

Important Structure: A building that is considered not expendable in an exposure fire.

Chapter 3 is adopted in its entirety as amended below

SECTION ~~302.1~~ 302.3 IS AMENDED AS BELOW ADDED

302.3 Declaration. The San Mateo Consolidated Fire Department hereby designates the Fire Hazard Severity Zones as recommended by the California Department of Forestry and Fire Protection pursuant to Government Code Section 51178. The map, approved by the San Mateo Consolidated Fire Department is hereby incorporated by reference, and entitled “City (or County or District) Fire Hazard Severity Zones.” The official map is also located electronically on the following website Fire Hazard Severity Zones (FHSZ) & Local Responsibility Areas (LRA) – SMC Fire.

<https://www.smcfire.org/fire-hazard-severity-zones-fhsz-local-responsibility-areas-lra/>

~~4905.3.1~~ 302.3.1 Local Agency Moderate fire hazard severity zone requirements. Buildings constructed in local Agency Moderate Fire Hazard Severity Zones shall ~~comply with section 4905.2-~~ shall comply with this code.

Exception: Provisions in Chapter 6 related to hazardous trees shall comply with the section regardless of the severity zone.

Chapter 4 is adopted in its entirety

Chapter 5 is adopted in its entirety

Chapter 6 is adopted in its entirety and amended as below.

SECTION 602.1 IS AMENDED AS BELOW

602.1 Automatic Sprinkler Systems. Automatic Sprinkler systems shall be installed in accordance with Chapter 9 of the California Fire Code as amended by the San Mateo Consolidated Fire Department.

SECTION 613 HAZARDOUS TREES ADDED

613 Trees.

613.1 Hazardous Trees

Trees shall be managed as follows within the 30-foot (9144 mm) zone of a structure

1. New trees shall be planted and maintained so that the tree's drip line at maturity is a minimum of 10 feet (3048 mm) from any combustible structure.
2. The horizontal distance between crowns of new trees and crowns of adjacent trees shall not be less than 10 feet (3048 mm).
3. Existing trees shall be trimmed to provide a minimum separation of 10 feet (3048 mm) away from chimney and stovepipe outlets per Title 14, Section 1299.03.
4. Hazardous Trees shall be removed if they are within 100 feet of any important structure.

613.2 Non-fire-resistant vegetation.

New trees not classified as fire-resistant vegetation, such as conifers, palms, pepper trees and eucalyptus species, shall be permitted provided the tree is planted and maintained so that the tree's drip line at maturity is a minimum 30 feet (9144 mm) from any combustible structure. Nothing in this section is designed to prevent the planting of any species.

613.2.2 Trees.

Trees are allowed within the defensible space, provided that the horizontal distance between crowns of adjacent trees and crowns of trees and structures, overhead electrical facilities or unmodified fuel is not less than 10 feet (3048 mm). Trees shall be maintained alive. Hazardous trees as defined in this ordinance shall be removed as per Chapter 49 of the Fire Code.

Chapter 7 is adopted in its entirety

PART IV- VIOLATIONS.

It is unlawful to violate or fail to comply with any provisions of this Code, or violate or fail to comply with any order made under this Code or to build in violation of any detailed statement of specification or plans submitted and approved under this Code, or any certificate or permit issued under this Code.

PART V- FIRE AND LIFE SAFETY INSPECTIONS.

Inspections by the Fire Department shall periodically be made of buildings and structures that are used for residential or non-residential purposes as follows:

- a) The time and frequency of inspections shall be determined by the Fire Chief. No buildings shall be inspected for a fee more than annually except for re-inspections to assure that code corrections have been made or hazards have been corrected.
- b) A fee for inspections shall be established in the adopted Master Fee Schedule to offset costs of the regulatory inspection program and shall be collected upon inspection from each property subject to this ordinance. Revenues shall be used for the inspection and enforcement program.
- c) All properties shall be subject to inspection fees.
- d) Nothing in this section is intended to prevent inspections of property under nuisance abatement or other laws.

PART VI – LOCAL FINDINGS AND AMENDMENTS

The Fire Department has determined that modifications to the ~~2021-2024~~ International Fire Code with the ~~2022~~ 2025 California Amendments are needed and reasonably necessary due to local climatic, geological, and topographical conditions, as set forth in Attachment 1 (Findings in Support of Amendments to the ~~2022~~ 2025 California Fire Code), which are incorporated herein as substantive provisions of this Ordinance.

PART VII- ENVIRONMENTAL DETERMINATION.

The Department Board of Directors finds that the modifications to California building standards, adopted by reference by the proposed ordinance, are enacted to provide a safer, more protected environment in response to local conditions, including local climatic, geological, and topographical conditions. The adoption of this ordinance is exempt from review under the California Environmental Quality Act (Public Resources Code section 21000 *et seq.*, “CEQA”) as the Ordinance is not a “project” as defined under CEQA. Moreover, the Ordinance is exempt from review pursuant to the CEQA Guidelines (California Code of Regulations Title 14, Chapter

3) consistent with, among other things, CEQA Guidelines Section 15061(b)(3), Section 15308, and Section 15321.

PART VIII- NOTICE PROVIDED; EFFECTIVE DATE.

This Ordinance shall be published in summary in the San Francisco Examiner, posted in the Departments administrative offices, and posted on the Department's Website, and shall be effective on **January 1, 2026**.

I hereby certify this to be a correct copy of Ordinance 2025-003 of the San Mateo Consolidated Fire Department, which was introduced on September 17, 2025 at a regular meeting of the Department Board of Directors by the following vote

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

Board Secretary

Board President

APPROVED AS TO FORM:

William D. Ross, General Counsel

San Mateo Consolidated Fire Department

**FINDINGS IN SUPPORT OF LOCAL AMENDMENTS TO THE 2025 CALIFORNIA FIRE CODE
AS ADOPTED BY THE SAN MATEO CONSOLIDATED FIRE DEPARTMENT
THAT IMPLEMENT ADDITIONAL REQUIREMENTS
DUE TO LOCAL CLIMATIC, GEOLOGICAL, AND TOPOGRAPHICAL CONDITIONS**

WHEREAS, pursuant to Sections 17958.5, 17958.7, and 18941.5 of the State of California Health and Safety Code, the Board of Directors for the San Mateo Consolidated Fire Department ("Department") has determined and finds that the attached changes or modifications to the 2024 International Fire Code with the 2022 2025 California Amendments are needed and are reasonably necessary because of local climatic, geological, and topographical conditions.

WHEREAS, based upon information provided by staff in support of these proposed amendments to the Fire Code and similar information provided in support of prior amendments and facts on which a local court could take judicial notice documenting the unique conditions found in the Board of Directors for the Department, it is expressly found by the Department Board of Directors that the following unique conditions are undisputed and do exist in the jurisdiction and that as a result, modifications to the 2025 California Fire Code are reasonably necessary for the Department.

NOW, THEREFORE, THE BOARD OF DIRECTORS FOR THE SAN MATEO CONSOLIDATED FIRE DEPARTMENT HEREBY ORDAINS THAT:

1. Climatic

The weather patterns within the Department are considered to be moderately affected by westerly winds that can average from 10-15 mph and gusts that can exceed 40 mph which are experienced almost year-round. Fog is a common occurrence in the jurisdiction, becoming quite dense at times. An average year's rainfall is approximately 22.95 inches, while summer conditions are hot and dry. These summer conditions create hazardous fuel situations that have caused grassland and brush land fires in recent years. Year-round average temperatures range from 58 in the winter to 81 degrees during the summer, however high temperatures have ranged from 75 in the winter to 110 degrees in the summer. Low humidity, high temperatures and gusting winds can move a fire quickly in the hillsides and canyon areas of the Department and can tax the capabilities of the urban design of the fire department. Lower water pressure in these areas also affects the abilities to quickly suppress any fires. Climate Change is expected to adversely affect these conditions, moving the weather towards more extremes in the coming years.

Because of the unpredictable weather patterns, intermittent drought and water rationing can be expected, causing dry vegetation and hazardous fire conditions. Weather patterns can go to the other extreme with heavy rains creating higher fuel load in the hillsides. A heavy rain pattern would also impact a flood plain area located in the northeast portion of the Department. This condition has the potential of causing additional barriers in this area when flooding blocks streets and underpasses.

The conditions described in this section make it reasonably necessary for the Department to adopt the following ordinance sections as modifications to the 2022 California Fire Code and these findings are specifically intended to satisfy the requirements of California Health and Safety Code Section 17958.7 in that regard:

San Mateo Consolidated Fire Department Ordinance Part I (Adoption), Part II (Applicability), Part III amending CFC Sections 108, 202, 303, 304, 305, 306, 307, 308, 309, 310, 501.1, 503.1.1, 503.3.1, 505.1, 505.1.1, 505.1.2, 505.1.3, 506.1.1.1, 506.1.1.2, 508.2, 901.6.3.2, 903.2, 903.3.1.2, 903.2.20, 903.3.1.2, 903.4.2, 905.3.1, Chapter 49, 5601.1.3, 5601.1.3.1, 5601.2.4, 5601.9, 5704.2.9.6.1, 5706.2.4.4, 5806.2, 6104.2, Table B105.2, Table C102.1, Appendix D, section D106.1, D107.1, and Part III adopting the International Wildland Urban Interface Code (All modifications and adoptions), Part IV (Violations), and Part V (Fire and Life Safety Inspections).

2. Geographical

The jurisdiction's geography is diverse, with scenic hillsides to the west and north and the San Francisco Bay shoreline and in-land lagoons to the northeast. Certain eastern portions of the Department are built on landfill. These geographic features establish roadways, waterways, and building sites and create barriers for accessibility for fire suppression forces. Such geological barriers increase fire emergency response time.

The cities in the Department's jurisdiction lie near several potentially active seismic hazards, including the San Andreas and San Mateo Faults. Seismic activity within the Department occurs yearly with little or no damage, although in 1989, the Loma Prieta Earthquake caused substantial damage (building collapses, fires, closure of main travel arteries, medical emergencies, etc.) from San Francisco to Santa Cruz. Within minutes of the quake, all emergency services were exhausted. Additionally, a large quake, greater than 6.7 magnitude is predicted along one of the major Bay Area Earthquake Faults before 2030. Landslide areas become a critical concern with seismic activity due to the possibility of liquefaction. The northern hillsides create slopes in excess of 60% with an average of between 5-10%. The Department continues to see building on these hillside areas. Such sites are prone to landslide activity during the rainy season and during seismic activity.

The Department is located in a nationally recognized earthquake prone area which caused unique challenges for fire and disaster relief agencies. Because the problem is regional and potentially suffocating in scope, tailored response programs with other agencies are essential. Seismic considerations, elsewhere not applicable, must be recognized in all construction projects.

The conditions described in this section make it reasonably necessary for the Department to adopt the following ordinance sections as modifications to the 2019 California Fire Code and these findings are specifically intended to satisfy the requirements of California Health and Safety Code Section 17958.7 in that regard:

San Mateo Consolidated Fire Department Ordinance Part I (Adoption), Part II (Applicability), Part III amending CFC Sections 108, 202, 303, 304, 305, 306, 307, 307.1.1, 307.4.1, 307.4.2, 308, 309, 310, 311, 501.1, 503.1.1, 503.3.1, 505.1, 505.1.1, 505.1.2, 505.1.3, 506.1.1.1, 506.1.1.2, 508.2, 510.4.2, 510.4.2.9, 510.5.2, 510.5.2.1, 510.5.2.2, 510.5.2.3, 510.5.3.1, 405, 406, 901.6.3.2, 903.2, 903.3.1.2, , 903.2.20, 903.3.1.2, 903.4.2, 905.3.1, 907.1.6, 907.1.6.1, 1009.3.1, Chapter 49, Table B105.2, Table C102.1, Appendix D, section D106.1, D107.1, and Part III adopting the 2021 Wildland

Urban Interface Code (All adoptions and Modifications), Part IV (Violations), and Part V (Fire and Life Safety Inspections).

3. Topographical

The topographical element is associated closely with the geographical element noted above. The Department's water supply (domestic and fire flow) system is directly affected by the topographical layout of the member cities comprising the Department. The distribution system consists of "lift-zones," which carry the water to the public via conduits of water pipes from various reservoirs, storage tanks, and dammed areas. In these "lift-zones" the pressure and flows are adequate at the lower elevations of the zone, but as the elevation increase water flow can vary greatly. Such variations create predictable problems for fire suppression units.

The roadway system through the Department is, by and large, designed around the topographical lay of the land with narrow, steep grades, large highway over-passes and roadways inefficient to handle current traffic demands. This creates "barriers" that increase the fire department response time.

Additionally, developers are creating denser residential developments in many areas throughout the Department. There is a trend to develop more concentrated structures such as "podium" buildings which are residential, or business occupancies built over parking structures. These structures are generally built with reduced access around the building because they are being constructed in a "Built-out" environment, replacing existing structures. These larger, denser developments generally add 3+ minutes to response times by creating unique challenges to accessing and suppressing fires. The additional time could allow "flashover" to occur ("Flashover" occurs when a fire can burn freely without any suppression intervention, causing the structure or room to become completely engulfed with fire in a short time). These "podium" buildings are generally designed to support a higher occupancy load. Mid-rise buildings also pose unique suppression challenges because of the size and complexity of the building footprint that adds to the time needed to locate a fire. The height of these structures, and the combustible nature of the buildings built above the podium present additional challenges when it comes to fire extinguishment and rescue. The higher density of buildings in the jurisdiction, along with the hills of the jurisdiction pose challenges for the radio systems used by the department for emergency communications. Inadequate communications pose a direct threat to the health and wellbeing of responders.

The remaining structures (those not redeveloped into larger, denser structures) pose another concern in that they lack adequate fire protection like firewalls, fire extinguishing systems, fire alarm system, etc. Historical buildings also create cause for concern in that they were built under less stringent building codes and with narrower setback requirements, creating further "barriers" that firefighters must work around. Some of these buildings date as far back as 100 years and are irreplaceable, holding significant historical.

The western hills of the jurisdiction are steep, and are covered in many different kinds of vegetation. There are structures built in and bordering densely vegetated areas, making the spread of vegetation fires to structures more likely.

The conditions described in this section make it reasonably necessary for the Department to adopt the following ordinance sections as modifications to the 2022 California Fire Code and these

findings are specifically intended to satisfy the requirements of California Health and Safety Code Section 17958.7 in that regard:

San Mateo Consolidated Fire Department Ordinance Part I (Adoption), Part II (Applicability), Part III amending CFC Sections 108, 202, 303, 304, 305, 306, 307, 308, 309, 310, 311, 318, 319.1.1, 501.1, 503.1.1, 503.3.1, 505.1, 505.1.1, 505.1.2, 505.1.3, 506.1.1.1, 506.1.1.2, 508.2, 510.4.2, 510.4.2.9, 510.5.2, 510.5.2.1, 510.5.2.2, 510.5.2.3, 510.5.3.1, 405, 406, 901.6.3.2, 903.2, 903.3.1.2, , 903.2.20, 903.3.1.2, 903.4.2, 905.3.1, 907.1.6, 907.1.6.1, 1009.3.1, Chapter 49, Table B105.2, Table C102.1, Appendix D, section D106.1, D107.1, and Part III, the 2021 International Wildland Urban Interface Code (All adoptions and modifications), Part IV (Violations), and Part V (Fire and Life Safety Inspections).



STAFF REPORT

To: San Mateo Consolidated Fire Department Board of Directors

From: Matt Turturici, Fire Chief

Meeting Date: September 17, 2025

Subject: Purchase of One (1) Replacement Fire Aerial Ladder Truck and Two (2) Fire Engines

RECOMMENDATION

Adopt a resolution approving the purchase of one new fire aerial ladder truck and two new fire engines from Golden State Fire Apparatus and authorizing the Fire Chief to sign the purchase agreement. The Fire Department will utilize and piggyback on the public agency contract services of the Houston-Galveston Area Council (HGAC) to purchase the replacement fire truck and fire engines in the amount of \$5,138,413.41 including sales tax and destination charges. The purchase order will be through Golden State Fire Apparatus, who will honor the HGAC price.

BACKGROUND

Research through the Texas purchasing consortium (HGAC) reveals that Pierce Manufacturing of Appleton, Wisconsin continues to offer the best pricing for fire apparatus vehicles that meet the needs of our community. The Chief and Finance Director have agreed to proceed with ordering the apparatus and to defer payment until the equipment is received. This decision is based on the financial advantage of retaining the funds in the Equipment Replacement Fund (ERF) account. Given the extended delivery timeline, currently estimated at over four years, the interest accrued by keeping the funds invested outweighs the benefits of early payment.

Fleet Update and Transition Plan

The Fire Department currently maintains a fleet of:

- 2 frontline aerial ladder trucks
- 2 reserve aerial ladder trucks
- 10 frontline engines
- 6 reserve engines

To maintain operational readiness and ensure continued service to our geographically diverse community, the following fleet transitions will occur as part of the new apparatus acquisition:

- One 2015 aerial ladder truck and two 2015 engines will be reassigned from frontline to reserve status.
- The expected service life of an engine is 15 years, and 20 years for an aerial ladder truck.
 - Apparatus manufacturers are only responsible for maintaining parts availability for up to 20 years.

- One 1998 reserve ladder truck, along with 2006 and 2007 reserve engines, have reached the end of their service life and will be designated as surplus. These units will be sold or donated in accordance with the Department's purchasing policy.

This transition supports the department's long-term fleet sustainability and ensures continued reliability and safety in emergency response operations.

ANALYSIS

In 2025, the Apparatus and Equipment Committee completed its assignment to create specifications for new aerial ladder trucks and fire engines using the following criteria:

- Capable of maneuvering the varied terrain of the community, including engineered traffic calming controls, while responding to emergency incidents;
- Operable for the longest possible service life;
- Operable with high reliability and minimal operating costs;

Additionally, the Committee was tasked with designing a tiller truck and fire engines that could serve as a model for future group purchases on a county-wide basis or for a larger geographical area.

The selection of Pierce Manufacturing and the associated costs are supported by several key factors. The Fire Department currently operates ten frontline Pierce fire engines and two frontline Pierce aerial ladder trucks. The addition of two new Pierce engines and one aerial ladder truck will replace the aged out apparatus per our equipment replacement fund standards and maintain the goal of fleet standardization. This improves efficiency in several areas including:

- Vehicle operator training
- Emergency scene operations
- Fleet maintenance
- Parts acquisition

The SMC Fire Shop is staffed with a trained fire mechanic and is fully capable of maintaining and repairing Pierce apparatus. The selected specifications also align with a regional model, as nine of the thirteen fire agencies in the county already operate Pierce apparatus. The cost increases associated with this purchase are largely the result of:

- Inflation of materials
- Potential tariffs
- Supply chain disruptions
- EPA regulatory changes
- Rising labor costs
- Increased demand

Since the last engine purchase in 2022, the cost of fire engines has risen by 32% and aerial ladder trucks by 42%.

Estimated delivery timelines are:

- Fire Engines: 49 to 52 months
- Fire Truck: 46.5 to 49.5 months

A request for bid with fire engine specifications and delivery requirements was sent by HGAC to Pierce Fire Engine manufacturers. Staff is recommending the purchase of the following:

<u>Description</u>	<u>Price</u>
Two (2) Pierce Manufacturing, Inc. Enforcer 1750 GPM Type 1 Fire Engines	2,455,230.00
9.625% State Sales Tax	236,315.88
California Tire Fee	21.00
100% Performance Bond	3,604.00
Two (2) Fire Engines Grand Total	2,695,170.88

<u>Description</u>	<u>Price</u>
One (1) Pierce Manufacturing, Inc. 107' Enforcer Ascendant Tiller	2,223,351.00
9.625% State Sales Tax	213,997.53
California Tire Fee	14.00
100% Performance Bond	5,880.00
One (1) Fire Truck Grand Total	2,443,242.53

Apparatus Buildup Costs

In addition to the base vehicle costs, the Fire Department will require an estimated **\$245,000** for apparatus buildup if the equipment were to be outfitted today. This amount covers essential operational components such as radios, hose, med vaults, KeySecure6 systems, Rescue 42 stabilization tools, e-hydraulic tools, small tools, and all necessary mounting equipment. Given the extended delivery timelines, it is anticipated annual inflation of 3–5% on these buildup costs. This escalation will be factored into future budget planning to ensure the apparatus are fully equipped and operational upon delivery.

FISCAL IMPACT

Acquisition of this fire apparatus is a planned expenditure. Funds are being accumulated through the Vehicle and Equipment Replacement Fund each year to make sure sufficient funding is available to meet the requirements of this purchase. The current replacement plan adopted in fiscal year 2025-26 maintains consistent cost recovery rates while also ensuring the fund balance is at an appropriate level for fiscal years 2028-29 and 2029-30 when these replacement purchases need to be made.

ATTACHMENTS

- A. Resolution
- B. Purchase Proposal for Truck
- C. Purchase Proposal for Engine

RESOLUTION NO RES-2025-

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN MATEO
CONSOLIDATED FIRE DEPARTMENT AUTHORIZING PARTICIPATION IN A
COOPERATIVE PURCHASING PROGRAM APPROVING THE PURCHASE OF ONE
FIRE AERIAL LADDER TRUCK AND TWO FIRE ENGINES FROM GOLDEN STATE
FIRE APPARATUS THROUGH THE HOUSTON-GALVESTON AREA COUNCIL
(HGAC) IN THE AMOUNT OF \$5,138,413.41, AND AUTHORIZING THE FIRE CHIEF
TO EXECUTE THE PURCHASE AGREEMENT**

WHEREAS, the San Mateo Consolidated Fire Department (SMC Fire) has identified the need to replace aging apparatus to maintain operational readiness and ensure continued reliability and safety in emergency response operations; and,

WHEREAS, the Houston-Galveston Area Council (HGAC) cooperative purchasing program provides competitive pricing that satisfies the SMC Fire's bidding requirements, and Golden State Fire Apparatus has agreed to honor the HGAC price; and

WHEREAS, Pierce Manufacturing, Inc. has been identified as the manufacturer that best meets the Department's operational and fleet standardization needs, and the total cost of one aerial ladder truck and two fire engines, including sales tax and destination charges, is \$5,138,413.41; and,

WHEREAS, fire apparatus manufacturers are currently experiencing significant cost increases due to inflation, supply chain disruptions, and regulatory requirements, and extended delivery timelines of approximately four years for new fire engines and aerial ladder trucks; and,

WHEREAS, in addition to the base vehicle costs, the Fire Department will require an estimated \$245,000 for apparatus buildup to outfit the new fire engines and aerial ladder truck with essential operational equipment, including radios, hoses, med vaults, and rescue tools, and this estimate does not include anticipated inflation; and,

WHEREAS, sufficient funds have been accumulated through the SMC Fire's Vehicle and Equipment Replacement Fund and appropriated in the Fiscal Year 2025–26 adjusted budget to cover this expenditure.

NOW, THEREFORE, the Board of Directors of the San Mateo Consolidated Fire Department resolves as follows:

1. Authorize the purchase of one Pierce Tiller Truck and two Pierce Enforcer Fire Engines from Golden State Fire Apparatus in the amount of \$5,138,413.41 through the HGAC cooperative purchasing program.
2. Authorize the Fire Chief to execute all documents necessary to complete the purchase agreement.

PASSED AND ADOPTED as a resolution of the Board of Directors of the San Mateo Consolidated Fire Department at the regular meeting held on the 17th day of September, 2025, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

Board Secretary

Board President

APPROVED AS TO FORM:

William D. Ross, General Counsel



GOLDEN STATE

FIRE APPARATUS

PREPARED ESPECIALLY FOR:

SAN MATEO CONSOLIDATED FIRE DEPARTMENT

One (1) Pierce Manufacturing, Inc.
107' Enforcer Ascendant Tiller





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- 2** Standard Terms and Conditions (Exhibit A)
- 3** Product Specifications (Exhibit B)
- 4** Product Warranties (Exhibit C)
- 5** Dealer Supplied Products and/or Services (Exhibit D)



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

1 PRODUCT PROPOSAL

OPTION A

100% PRE-PAYMENT

This will be the price of the Product(s) contingent upon the Customer paying the Grand Total Purchase Price to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

IF YOU ELECT THIS OPTION,
IT RESULTS IN A SAVINGS OF
(\$373,756.24) OFF
OF THE GRAND TOTAL OF OPTION B

Please note this discount is also available contingent upon a Third Party (Leasing Company) paying 100% of the Grand Total Purchase Price on behalf of the Customer to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:**San Mateo Consolidated Fire Department**31 Karen Road
Belmont, CA 94002**Sales Consultant**Ryan Wright
ryan@goldenstatefire.com
Mobile: (209) 613-3809

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
07/24/2025	08/31/2025	90724-25AT	987	Pierce Manufacturing, Inc.	HGAC contract FS12-23, Model 23A-110

Golden State Fire Apparatus, Inc. ("GSFA") is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the "Product") to SAN MATEO CONSOLIDATED FIRE DEPARTMENT ("Customer") for consideration. This proposal (this "Product Proposal") includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the "Terms and Conditions"); the Product Specifications attached as Exhibit B (the "Specifications"); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the "Dealer Supplied Products/Services List") (all of the foregoing, collectively, the "Agreement"). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the "Executed Date").

ITEM	PRODUCT DESCRIPTION	UNIT PRICE
A	One (1) Pierce Manufacturing, Inc. 107' Enforcer Ascendant Tiller	2,223,351.00
B	<i>Discount for 100% Payment at Time of Order (the "Prepayment Discount")</i>	<i>(340,148.00)</i>
C	SUBTOTAL	1,883,203.00
D	9.625% State Sales Tax	181,258.29
E	California Tire Fee	14.00
F	100% Performance Bond	5,011.00
G	GRAND TOTAL PURCHASE PRICE	2,069,486.29

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the "Grand Total Purchase Price") to GSFA within thirty (30) calendar days of the Executed Date. If payment of the Grand Total Purchase Price is late, a late fee as specified in section 6 of the Terms and Conditions may be applied, and the Prepayment Discount may be adjusted, and the Grand Total Purchase Price increased in accordance with section 2.c of the Terms and Conditions. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above ("Manufacturer") and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA's further performance under the Agreement is contingent upon Manufacturer's acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable

amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **46.5 to 49.5 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE / EQUIPMENT MOUNTING – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **1 to 1.5 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

PURCHASE ORDER – Any PO shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

ACCEPTANCE – ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN GSFA AND CUSTOMER. “**ACCEPTANCE**” MEANS THAT THE CUSTOMER DELIVERS TO GSFA: (A) A SIGNED COPY OF THIS PRODUCT PROPOSAL, OR (B) A SIGNED COPY OF A PURCHASE ORDER INCORPORATING THE AGREEMENT IN ITS ENTIRETY. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER’S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED AND OF NO EFFECT UNLESS APPROVED IN WRITING SIGNED BY GSFA.

COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 07/24/2025, GSFA Proposal Number 90724-25AT to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

Signature of Authorized Customer Representative

Print Name

Title

Date**ACCEPTED AND AGREED TO BY GSFA**

Signature of Authorized GSFA Representative

Print Name

Title

Date

OPTION B

PAYMENT AT TIME OF DELIVERY OR PICKUP

This will be the price of the Product(s) contingent
upon the Customer paying the Grand Total
Purchase Price to GSFA at time of delivery or pickup
pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:**San Mateo Consolidated Fire Department**31 Karen Road
Belmont, CA 94002**Sales Consultant**Ryan Wright
ryan@goldenstatefire.com
Mobile: (209) 613-3809

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
07/24/2025	08/31/2025	90724-25BT	987	Pierce Manufacturing, Inc.	HGAC contract FS12-23, Model 23A-110

Golden State Fire Apparatus, Inc. ("GSFA") is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the "**Product**") to SAN MATEO CONSOLIDATED FIRE DEPARTMENT ("**Customer**") for consideration. This proposal (this "**Product Proposal**") includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the "**Terms and Conditions**"); the Product Specifications attached as Exhibit B (the "**Specifications**"); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the "**Dealer Supplied Products/Services List**") (all of the foregoing, collectively, the "**Agreement**"). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the "**Executed Date**").

ITEM	PRODUCT DESCRIPTION	UNIT PRICE
A	One (1) Pierce Manufacturing, Inc. 107' Enforcer Ascendant Tiller	2,223,351.00
B	9.625% State Sales Tax	213,997.53
C	California Tire Fee	14.00
D	100% Performance Bond	5,880.00
E	GRAND TOTAL PURCHASE PRICE	2,443,242.53

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the "**Grand Total Purchase Price**") to GSFA no later than the time of GSFA's delivery of the applicable Product to Customer's address listed above (or Customer's pick up of such Product at GSFA's facilities, if approved by GSFA). GSFA shall have no obligation to deliver, or permit pick up of the Product if the Customer does not have full payment ready when the Product is complete and ready to deliver or pick up, as applicable. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above ("**Manufacturer**") and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA's further performance under the Agreement is contingent upon Manufacturer's acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **46.5 to 49.5 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE / EQUIPMENT MOUNTING – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **1 to 1.5 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

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COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 07/24/2025, GSFA Proposal Number 90724-25BT to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

Signature of Authorized Customer Representative

Print Name

Title

Date**ACCEPTED AND AGREED TO BY GSFA**

Signature of Authorized GSFA Representative

Print Name

Title

Date

2 STANDARD TERMS AND CONDITIONS

Exhibit "A"

STANDARD TERMS AND CONDITIONS

1. Definitions.

- a. **"Agreement"** has the meaning given in the Product Proposal.
- b. **"Customer"** means the customer identified in the Product Proposal.
- c. **"Dealer Preparation,"** if applicable, means additional product(s) and/or services added or provided by GSFA after Manufacturer's completion of the Product and transportation to GSFA's premises prior to delivery to Customer, in accordance with the Dealer Supplied Products/Services List and/or a valid Change Order(s).
- d. **"Dealer Supplied Products/Services List"** means the Dealer Supplied Products and/or Services List attached to the Product Proposal as Exhibit D, which reflects all Dealer Preparation under the Agreement absent a valid Change Order(s).
- e. **"Grand Total Purchase Price"** means the total purchase price for the Product identified in the Product Proposal (subject to any adjustments required or permitted by these Terms and Conditions, including by the execution of a valid Change Order(s)).
- f. **"GSFA"** means Golden State Fire Apparatus, Inc., a California corporation.
- g. **"Manufacturer"** means the person or persons, company, firm, corporation, partnership, or other organization identified in the Product Proposal as responsible for manufacturing the Product.
- h. **"Party"** or **"Parties"** means GSFA and/or Customer, as applicable.
- i. **"Prepayment Discount"** means a discount to the purchase price for the Product granted to Customer in connection with Customer's advance payment of the Grand Total Purchase Price (or portion thereof, as specified in the Product Proposal), if applicable.
- j. **"Product"** means the fire apparatus(es) and any associated equipment listed in the Product Proposal and further described in the Specifications.
- k. **"Product Proposal"** means the GSFA proposal executed by Customer to which these Terms and Conditions are attached.
- l. **"Product Warranties"** means the Manufacturer warranties for the Product attached to the Product Proposal as Exhibit C.
- m. **"Specifications"** means the specifications for the Product attached to the Product Proposal as Exhibit B.
- n. **"Terms and Conditions"** means these Standard Terms and Conditions, which are attached to the Product Proposal as Exhibit A.

2. Purchase and Payment.

a. Purchase. Customer agrees to purchase the Product at the Grand Total Purchase Price (as such amount may be adjusted in accordance with these Terms and Conditions), pursuant to the payment terms set forth in the Product Proposal. The Grand Total Purchase Price is payable in U.S. dollars.

b. Contingency Reserve Fund. The Grand Total Purchase Price may include an amount to be set aside for the purpose of funding any future costs or financial obligations incurred by Customer under the Product Proposal or any valid Change Order(s) (the **"Contingency Reserve Fund"**). If applicable, the amount of any required Contingency Reserve Fund will be set forth in either the Product Proposal or Exhibit D. The Contingency Reserve Fund may be withdrawn against by Customer or GSFA for the purpose of satisfying Customer's payment obligations under the initial Product Proposal or any valid Change Order(s) (including, without limitation, a Change Order submitted by GSFA pursuant to Section 8.b). If a Contingency Reserve Fund is required under the Agreement, the amount of such fund is not intended as an estimate of the actual additional costs of contingencies, Change Orders, unforeseen items or other required work that may be incurred under the Agreement after submission of the Product Proposal to Customer, which amounts Customer acknowledges may exceed the Contingency Reserve Fund amount. The balance of any Contingency Reserve Fund will be credited against Customer's payment obligations, or otherwise returned to Customer within thirty (30) calendar days of delivery of all Products under the Agreement (provided that Customer has paid all amounts owed under the Agreement as of such date).

c. Prepayment Discount. If GSFA has granted Customer a Prepayment Discount, Customer must provide each associated prepayment (each, a “**Prepayment**”) within the time frame specified in the Product Proposal in order to receive such discount. Customer’s failure to timely make any Prepayment may result in: (i) GSFA’s termination of the Agreement; and/or (ii) Customer’s loss of the Prepayment Discount for the portion of the Grand Total Purchase Price represented by such outstanding Prepayment and the application of a late fee as set forth in Section 6, in each case in GSFA’s sole discretion.

d. State Sales Tax. Customer shall be responsible for the cost of state sales tax associated with, or attributable to, the Product. The taxes stated in the Product Proposal are subject to adjustment for the applicable state sales tax rate in effect at the time of delivery. Therefore, the sales tax set forth on the Product Proposal is only an estimate of such taxes and will be increased or decreased at the time of delivery if a change in the applicable sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the difference in the applicable sales tax.

3. Product Completion Date. Within thirty (30) calendar days of the date on which the last required signatory executes the Product Proposal (such date, the “**Executed Date**”), GSFA shall submit to Customer a tentative Product completion date based on the then-estimated time to complete the manufacturing of the Product(s) and for the Product(s) to be ready for inspection and final approval by Customer at the manufacturing facility (which may differ from the Product completion estimate contained in the Product Proposal). Due to global supply chain constraints, any Product completion date contained herein, or in the Product Proposal, or otherwise provided to Customer, is a good faith estimate only as of the date provided to Customer, and merely an approximation based on current information available to GSFA and Manufacturer. Customer shall not be entitled to rely on any such estimate, and GSFA shall have no liability to Customer for a failure by GSFA or Manufacturer to meet any such estimate. All Product completion estimates are subject to modification and, if applicable, GSFA will provide updates to such estimates to Customer when available.

4. Stock / Demo Units. Notwithstanding any other provision contained in the Agreement (including Section 12 hereof concerning warranties), any Products constituting stock/demo unit(s) are sold to Customer on an as-is, first-come and first-served basis and GSFA makes no further representation or warranty to any customer with respect to such unit(s). Regardless of the terms of the Product Proposal, GSFA shall only be obligated to sell such stock/demo unit(s) to the first customer to enter into a purchase agreement with GSFA identifying such unit(s), and after the execution by GSFA of such agreement any subsequent purchase agreement (including the Agreement, as applicable) shall have no further force or effect with respect to such unit(s).

5. Multiple Unit Purchase. If the Grand Total Purchase Price includes pricing for multiple Products, the Product price stated in the Product Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Agreement. GSFA shall have no obligation to offer the same price for any Product if purchased by Customer pursuant to a later purchase agreement.

6. Late Fee; Storage Fee. A late fee equal to 0.033% of the outstanding portion of the Grand Total Purchase Price will be charged per calendar day for overdue payments beginning ten (10) calendar days after the payment is due and continuing for the first thirty (30) calendar days thereafter. After such thirty (30) calendar day period, the late fee shall increase to 0.044% per calendar day until payment of the outstanding portion of the Grand Total Purchase Price is received; provided that if Customer is a public agency, the foregoing late fees shall not exceed the statutory limit set forth in Section 926.10 of the California Government Code. If Customer is unable to satisfy the delivery requirements hereunder or is unwilling to take delivery of the Product, then GSFA shall be entitled to a storage charge running from the earlier of: (i) the date of delivery agreed to between GSFA and Customer (provided GSFA is willing and able to deliver the Product on such date), or (ii) twenty-one (21) calendar days after GSFA notifies Customer that the Product is available for delivery. The storage charge is equal to: (i) \$175.00 per calendar day per apparatus stored, or (ii) the actual charges incurred by GSFA with a third party for storage of the Product, whichever is greater. Such storage charge shall continue until the actual time of delivery and Customer’s possession of the Product, and any such storage by GSFA or such third party shall be at the sole risk of Customer.

7. Delivery; Inspection and Acceptance.

a. Delivery. Subject to Section 5 hereof, the Product is scheduled to be delivered to the location and within the time period specified in the Product Proposal. Such delivery date is an estimate, and GSFA is, notwithstanding this Section 7.a, not bound to such date unless it otherwise agrees in a separate writing to complete delivery by a date certain. For the avoidance of doubt, GSFA is not responsible for delivery delays caused by or because of actions, omissions or conduct of Customer, the Manufacturer, or their respective employees, affiliates, suppliers, contractors, and carriers. Risk of loss for the Product shall pass to Customer at the point and time of delivery (which shall include an attempted delivery by GSFA which cannot be completed due to any act or omission of Customer). However, title to the Product shall only pass to Customer upon delivery if Customer has then fully paid GSFA all amounts due hereunder (including additional amounts due under any valid Change Order). Absent GSFA's separate written agreement, which it may or may not provide in its sole and absolute discretion, delivery of the Product will not occur before Customer has fully paid all amounts due under the Agreement and provided proof of insurance reasonably satisfactory to GSFA. If GSFA permits Customer to take possession of the Product prior to such payment, Customer may not mount equipment, conduct training, or place the Product into service until all amounts due under the Agreement have been paid. If Customer has ordered multiple Products, GSFA reserves the right to deliver such Products in installments and to separately invoice Customer for such Products.

b. Inspection and Acceptance. Upon delivery, Customer shall have ten (10) calendar days within which to inspect the Product for substantial conformance to the Specifications, and in the event of substantial non-conformance to the Specifications to furnish GSFA with written notice sufficient to permit GSFA to evaluate such non-conformance ("**Notice of Nonconformance to Specifications**"). Contingent upon part availability and Customer's cooperation, any Product not in substantial conformance to material Specifications shall be remedied by GSFA (by repair or replacement, at GSFA's election) within thirty (30) calendar days from GSFA's receipt of the Notice of Nonconformance to Specifications. In the event GSFA does not receive a Notice of Nonconformance to Specifications within ten (10) calendar days of delivery, the Product will be deemed to be in conformance with Specifications and accepted by Customer.

8. Changes to Agreement Terms.

a. Change Orders. The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product, or GSFA may submit changes to the Agreement required or permitted to be made by GSFA (pursuant to Section 8.b or otherwise), by delivering a written Change Order to the other party hereto, which shall include a description of the proposed change sufficient to permit the receiving party to evaluate such change (either, a "**Change Order**"). For any Change Order submitted by Customer, GSFA will provide Customer a written response (a "**Response**") stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion); and (ii) the terms of the modification to the order, including any increase or decrease in the Grand Total Purchase Price resulting from such Change Order, a date on which any increase in the Grand Total Purchase Price must be paid, and an estimate of any effect on production scheduling or delivery resulting from such Change Order. Customer shall have seven (7) calendar days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer countersigns GSFA's Response, Customer shall pay the increase (or be refunded the decrease) in the Grand Total Purchase Price by the date specified in the Response. GSFA may also send Customer a Change Order to account for any changes to the Agreement required or permitted to be made by GSFA (including those changes required pursuant to Section 8.b hereof), and such Change Order shall be effective upon delivery to Customer unless Customer elects to terminate the applicable Product order under the Agreement in accordance with Section 9.

b. Additional Changes.

i. Component Price Volatility; Increases Imposed by Manufacturer. GSFA shall not be responsible for (i) any unforeseen price increase or surcharge enacted by suppliers of major components of the Product (including but not limited to commercial chassis, engine, transmission, and fire pump); or (ii) price increases imposed on GSFA by Manufacturer pursuant to Manufacturer's terms and conditions for sale of the Product (a "**Manufacturer**

Price Increase”), after Customer becomes bound by the Agreement. Customer shall be responsible for all amounts arising from any price increases for major components of the Product (including all associated taxes and fees thereon) or any Manufacturer Price Increases occurring after the execution of the Agreement which increase the cost of the Product to GSFA, and such amounts will be documented on a Change Order adjusting the Grand Total Purchase Price accordingly. Customer shall pay any such price increase prior to Product delivery. A Manufacturer Price Increase may include, but shall not be limited to, an increase in Product price resulting from an increase in the Producer Price Index of Components for Manufacturing (see www.bls.gov Series ID: WPUID6112) in excess of a compounded annual growth rate of five percent (5%), as measured between the month Manufacturer accepts the applicable Product order and the month that is fourteen (14) months prior to the then-current estimated Product completion date (the foregoing, a **“PPI-Based Price Increase”**). If, upon Customer’s receipt of a Change Order reflecting a PPI-Based Price Increase, Customer elects to terminate the applicable Product order in accordance with Section 8.b.iii rather than pay such increase, then in lieu of the cancellation fees described in Section 9.a hereof GSFA shall be entitled to recover and Customer shall pay GSFA’s actual non-reimbursable costs incurred in connection with the Product order through the date of Customer’s termination of such Product order.

ii. New Legal Standards. In the event the Product design, materials or specifications require an alteration arising from new regulations issued by any governmental entity or trade association, including, but not limited to, the NFPA, DOT, and EPA, and such alteration increases the cost of the Product to GSFA, Customer shall be responsible for changes to the Grand Total Purchase Price arising from such alteration. GSFA shall promptly notify Customer when it becomes aware of any potential or required change in regulations occurring prior to delivery that would impact the Product purchased.

iii. Change Orders. Customer shall execute any Change Order submitted by GSFA documenting any of the changes required or permitted by Sections 8.b.i and 8.b.ii above (which shall, to the extent practicable, itemize any increases in the Grant Total Purchase Price and specify a commercially reasonable date by which Customer must pay such increase), unless Customer instead elects to terminate the applicable Product order under the Agreement within fifteen (15) calendar days of Customer’s receipt of such Change Order and in accordance with Section 9. Absent such a termination, failure or refusal to execute a Change Order does not alter Customer’s obligations under this Section 8.b.

c. Changes in Commercial Specifications. Specifications for all components of the Product manufactured by companies other than the Manufacturer are subject to change without notice. Specifications for such components will be as available at the time of manufacture of the Product. GSFA shall not be liable for any deviations in such specifications arising from a substitution of components or changes in the design of any component by their original manufacturer.

9. Termination.

a. By Customer. Customer may terminate a Product order identified in the Product Proposal or a Change Order by providing written notice to GSFA in accordance with Section 16 hereof. If Customer elects to terminate a Product order, Customer shall pay GSFA a cancellation fee as follows: (a) after the Product order is accepted and entered by GSFA, 10% of the portion of the Grand Total Purchase Price applicable to such Product (including all associated taxes, fees and costs) (such amount, the **“Product Purchase Price”**); (b) after completion of the pre-construction phase of the order process, 20% of the Product Purchase Price; and (c) after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or Manufacturer but before substantial completion of such Product, 50% of the Product Purchase Price. Customer shall not be permitted to terminate a Product order after substantial completion of manufacturing and assembly of such Product (excluding any Dealer Preparation or other pre-delivery services or untypical Product customization, if applicable). Notwithstanding the foregoing, if the applicable tier of cancellation fee is not sufficient to cover all actual costs and fees incurred by GSFA with Manufacturer in connection with Customer’s termination of the Product order (**“Manufacturer Termination Fees”**), then in addition to such cancellation fee Customer shall pay the balance of all Manufacturer Termination Fees. If Customer received a Prepayment Discount, such discount shall not be considered for the purpose of calculating the above cancellation fee. The tier of cancellation fee applicable to any cancellation,

as well as the determination of whether a Product has reached substantial completion, shall be in the sole and absolute discretion of GSFA. Customer may request a fee waiver, and GSFA, in its sole discretion, may agree to waive and/or adjust such fee. GSFA will return the balance of the Grand Total Purchase Price or Product Purchase Price, as applicable, within thirty (30) calendar days of the effective date of the cancellation of the Product order or termination of the Agreement.

Customer may terminate the Agreement for an Event of Default by GSFA after providing GSFA with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following GSFA's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as GSFA has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable.

b. By GSFA. GSFA may terminate the Agreement for an Event of Default by Customer after providing Customer with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following Customer's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as Customer has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable. Notwithstanding the foregoing, GSFA may terminate the Agreement effective immediately upon written notice to Customer for Customer's failure to pay any amount owed under the Agreement when due.

Notwithstanding any other provision of this Agreement, if Customer terminates a Product order in accordance with Section 9.a above, GSFA may elect to instead terminate the Agreement upon notice to Customer in accordance with Section 16 hereof. If GSFA terminates the Agreement in accordance with this Section 9.b, Customer shall pay the applicable tier of cancellation fee for all Products pursuant to Section 9.a above as if Customer had elected to terminate each applicable Product order.

c. Based on Discontinuation or Cancellation by Manufacturer. In the event that Manufacturer cancels a Product order (provided that such cancellation is not the result of an act by Customer in violation of the Agreement) or discontinues the manufacture of a Product prior to its completion and delivery: (i) if such Product is the only Product contemplated under the Agreement, then the Agreement shall terminate; or (ii) if additional Products are contemplated under the Agreement, then only the Product order for the applicable cancelled or discontinued Product shall be terminated. Such Agreement termination or Product termination, as applicable, shall be effective upon GSFA's written notice to Customer of such cancellation or discontinuance in accordance with Section 16 hereof. GSFA's only obligation to Customer in such event shall be the return of any Prepayment paid by Customer for the cancelled or discontinued Product. For the avoidance of doubt, the cancellation fees contemplated in Section 9.a hereof shall not apply in the event of a termination pursuant to this Section 9.c.

10. Customer's Obligations. Customer shall provide its timely and best efforts to cooperate with GSFA and Manufacturer during the Product manufacturing and Dealer Preparation process. Reasonable and timely cooperation includes, without limitation, Customer's providing timely information in response to any requests from Manufacturer or GSFA and the participation of Customer's authorized representatives in traveling to Manufacturer's facility for inspections and approval of the Product, including a final approval before the Product leaves Manufacturer's facility.

11. Representations and Warranties. Customer hereby represents and warrants to GSFA as of the Executed Date that the execution of the Agreement and the purchase of the Product(s) and performance of the other obligations of Customer under the Agreement have been approved by Customer in accordance with applicable general laws and, as applicable, Customer's charter, ordinances, purchasing policies, and other governing documents, and executed by the appropriate Customer employees, officials, and/or representatives, and funding for Customer's performance of its obligations under the Agreement has been duly budgeted and appropriated by Customer.

12. Standard Warranty. All applicable Manufacturer warranties are contained in the Product Warranties. Any additional warranties must be expressly approved in a writing signed by GSFA, and Customer acknowledges and agrees that Manufacturer will not be liable for any such additional warranties.

a. Disclaimer. OTHER THAN AS EXPRESSLY SET FORTH IN THE AGREEMENT, GSFA, ITS AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS, OR REPRESENTATIVES, DO NOT MAKE ANY EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT (WHETHER RELATING TO THE CONDITION OR QUALITY OF THE PRODUCT, OR OTHERWISE) PROVIDED HEREUNDER OR OTHERWISE REGARDING THE AGREEMENT (INCLUDING, WITHOUT LIMITATION, WITH RESPECT TO ANY APPLICABLE DEALER PREPARATION), WHETHER ORAL OR WRITTEN, EXPRESS, IMPLIED OR STATUTORY. WITHOUT LIMITING THE FOREGOING, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, THE IMPLIED WARRANTY AGAINST INFRINGEMENT, THE IMPLIED WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE ARE EXPRESSLY EXCLUDED AND DISCLAIMED BY GSFA. STATEMENTS MADE BY SALES CONSULTANTS OR IN PROMOTIONAL MATERIALS DO NOT CONSTITUTE WARRANTIES.

b. Exclusions of Incidental and Consequential Damages. In no event shall GSFA be liable for special, consequential, incidental, indirect or punitive damages incurred by Customer in connection with any matter arising out of or relating to the Agreement, or the breach thereof, even if GSFA has been advised of the possibility of such damages, and regardless of whether such damages arise out of breach of warranty, the Agreement, indemnity, whether resulting from non-delivery or from GSFA's own negligence, or otherwise, except and solely to the extent such damages arise from the gross negligence or willful misconduct of GSFA.

13. Default. The occurrence of one or more of the following events (each, an "**Event of Default**") shall constitute a default under the Agreement: (a) Customer's failure to pay any amounts due or to perform any of its obligations under the Agreement; (b) GSFA's failure to perform any of its obligations under the Agreement; (c) either Party becoming insolvent or becoming subject to bankruptcy or insolvency proceedings; (d) any representation made by either Party under the Agreement which is false in any material respect; (e) any action by Customer to dissolve, merge, consolidate or transfer a substantial portion of its property to another entity during the term of the Agreement; (f) any other material breach of the terms of the Agreement by a Party; or (g) a default or breach by Customer under any other agreement with GSFA or its affiliates.

14. Indemnification of GSFA. Customer shall indemnify, defend, and hold harmless GSFA, its agents, servants, successors and assigns from and against all losses, damages, injuries, claims, demands and expenses, including attorneys' fees and other legal expenses, of whatever nature ("**Damages**"), to the extent such Damages arise out of or in connection with: (i) Customer's breach of the Agreement, or (ii) Customer's use, storage, or operation of the Product following delivery, regardless of where, how, and by whom operated (excluding any negligent operation by GSFA). The indemnification and assumptions of liability and obligation herein provided shall continue in full force and effect notwithstanding the termination of the Agreement, whether by expiration of time, by operation of law or otherwise. This provision is not intended to and shall not constitute the exclusive remedy of the Parties under the Agreement; the Parties may seek indemnity from one another under other legal principles, whether based in equity or law, so long as they do not nullify or cancel the effects of this paragraph.

15. Force Majeure. GSFA shall not be responsible nor deemed to be in default of any provision of the Agreement on account of delays in performance due to causes which are beyond GSFA's or Manufacturer's control and which make GSFA's performance impracticable, including but not limited to wars, insurrections, strikes or labor unrest, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of federal, state or local government, failure or delays in transportation, inability to obtain necessary labor, supplies or manufacturing facilities, supply chain issues, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, disease, pandemics or epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their agreements or labor troubles causing cessation, slowdown, or interruption of work.

16. Notice. Any notices, requests, consents, claims, demands, waivers and other communications required or permitted to be given hereunder must be given in writing at the address of each Party set forth below, or to such other address as either Party may substitute by written notice to the other in accordance with this Section 16, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally recognized private express courier. All such communications will be deemed to have been given: (i) when delivered by hand (with written confirmation of receipt); (ii) on the third (3rd) calendar day after the date mailed, by registered, express or certified mail; or (iii) when delivered by the addressee if sent by a nationally recognized private express courier.

GSFA:

Golden State Fire Apparatus Inc.
7400 Reese Road
Sacramento, CA 95828

CUSTOMER:

To the address listed in the Product Proposal

17. Contradictions. In the event of a conflict between the Agreement and any Change Order, or between Change Orders, the terms of the latest executed Change Order shall control.

18. Manufacturer's Statement of Origin. It is agreed that the manufacturer's statement of origin ("**MSO**") for the Product covered by the Agreement, if applicable, shall be retained and remain in the possession of GSFA per California Department of Vehicles (DMV) directives. Notwithstanding the foregoing, GSFA shall provide Customer with the original MSO if the Customer is self-registering, and Customer shall comply with all good-faith Process of Duty and other DMV requirements applicable to the Product and retain its own MSO.

19. Assignment. The relationship of the Parties established under the Agreement is that of independent contractors and neither Party is a partner, employee, agent, or joint venturer of or with the other. Neither Party may assign its rights and obligations under the Agreement unless it has obtained the prior written approval of the other Party.

20. Governing Law; Jurisdiction; Disputes. Without regard to any conflict of laws provisions, the Agreement is to be governed by and under the laws of the state of California. Prior to taking any legal action that may and/or can arise out of the Agreement, the Parties shall first attempt mediation with an agreed upon mediator. If the Parties cannot agree upon a mediator within thirty (30) calendar days of the submission of written notice of a dispute in accordance with Section 16 hereof, if any disputed matter remain unresolved within thirty (30) calendar days of the commencement of discussions, or if any party refuses to meet, then either party may submit any remaining disputes concerning and/or claim regarding the Agreement and/or the terms and conditions herein to the Superior Court, County of Sacramento (and the parties expressly consent to exclusive personal jurisdiction and venue before such court).

21. Entire Agreement; Amendments. The Agreement, including the Product Proposal, its exhibits and all valid Change Orders, is the exclusive agreement between the Parties regarding the subject matter contained herein and therein. No change in, modification of, or revision of the Agreement shall be valid unless in writing and signed by duly authorized representatives of both Parties with authority to sign such amendments to the Agreement.

END OF STANDARD TERMS AND CONDITIONS



3 PRODUCT SPECIFICATIONS

Exhibit "B"





Proposal Details Report

7/24/2025

Customer: SAN MATEO CONSOLIDATED FIRE DEPT
Representative: Klockzien, Dave
Requirements Manager:
Description: San Mateo Consolidated 107 Tiller
Chassis: Enforcer Chassis, Tractor (Tiller)
Body: Aerial, Tiller, No Pump, Alum Body
Bid Number: 987
Job Number:
Organization: Golden State Fire Apparatus, Inc

OptionCode	Type	Option	ProposalText
0766599		Boiler Plates, Tiller	GSFA is pleased to submit a proposal to the San Mateo Consolidated Fire Department for a Pierce® Tractor-Drawn Aerial Ladder per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications. PIERCE MANUFACTURING was founded in 1913. Since then, we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land. Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market. Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification. In accordance with the current edition of applicable NFPA standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment. Images and illustrative material in this proposal are as accurate as known at the time of publication but are subject to change without notice. Images and illustrative material are for reference only and may include optional equipment and accessories and may not include all standard equipment. GENERAL DESIGN AND CONSTRUCTION To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system. QUALITY AND WORKMANSHIP Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality. Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal. In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to ensure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce. To demonstrate the quality of our products and services, a list of at least twenty five (25) fire departments/municipalities that have purchased vehicles for a second time is provided. DELIVERY The apparatus will be delivered under its own power to ensure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered. MANUAL AND SERVICE INFORMATION At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle. SAFETY VIDEO At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. A link to the video is also available on the Pierce Training website. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance. PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet the current edition of applicable NFPA standards acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by GSEVS by operating a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within one hundred (100) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operator's manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24-hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

Commercial General Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Personal and Advertising Injury:

\$1,000,000

General Aggregate:

\$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

Commercial Automobile Liability Insurance

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit:

\$1,000,000

Umbrella/Excess Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:

\$3,000,000

Each Occurrence:

\$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

Product Liability Insurance

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when

		required by written contract between the Owner and a Pierce authorized dealer. Umbrella/Excess Liability Insurance The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance: Each Occurrence: \$25,000,000 Aggregate: \$25,000,000 The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies. The required limits can be provided by one (1) or more policies provided all other insurance requirements are met. Coverage will be provided by a carrier(s) rated A- or better by A.M. Best. All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.
0018180	Single Source Compliance, Aerials	SINGLE SOURCE MANUFACTURER Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.
0584456	Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452	RFP Location: Appleton, Wisconsin	
0588609	Vehicle Destination, US	
0770780	SP Truck Lift, Final Inspection	TRUCK LIFT, FINAL INSPECTION The truck will be put on a lift during final inspection.
0670275	Unit to be Similar in some Aspects, Excluding Pump Panel	SPECIAL INSTRUCTIONS The apparatus being proposed will be designed and built to match the 38841. However, some variation may be necessary due to changes in our manufacturing processes or our product offering. Revisions in NFPA guidelines and/or other regulations may also affect our ability to match the previous unit.
0816491	Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	NFPA 2024 STANDARDS This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions. Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus. All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack. A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating. The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications. An official of the company will designate, in writing, who is qualified to witness and certify test results.
0533349	Aerial Fire Apparatus	
0588613	Vehicle Certification, Aerial w/o Pump	

0681279	Agency, Apparatus Certification, Aerial w/o Pump, U.L.	NFPA COMPLIANCY Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA". INSPECTION CERTIFICATE A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly. Visual structural inspections will be performed on all welds on both aluminum and steel ladders. On critical weld areas, or on any suspected defective area, the following tests will be conducted: Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device. A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device. Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components. In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit. GENERATOR TEST If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery. BREATHING AIR TEST If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, <i>Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection</i>.
0816495	Certification, Vehicle Inspection Program, NFPA 1900	VEHICLE INSPECTION PROGRAM CERTIFICATION To assure the vehicle is built to current NFPA1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus. A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.
0092138	Highly Customized Product (HCP)	PRODUCT CHANGES AND IMPROVEMENTS Our components and processes, as described in this proposal document, are as accurate as known at the time of bid submission, but are subject to change for the purpose of product or process improvements, or changes in industry standards providing the change does not affect the meaning or definition of the bid specifications.

0536644	Customer Service Website	AFTERMARKET SUPPORT WEBSITE Pierceparts.com will provide <u>Pierce authorized dealer</u> access to comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the Pierce authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips. Pierceparts.com is also accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized Pierce dealer for additional support and service. The website will consist of the following screens at the dealer level: My Fleet Screen The My Fleet screen will provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc. Parts Screens The Parts screens will provide parts look-up capability of Pierce Manufacturing sourced items, with the aid of digital photographs, part drawings and assembly drawings. The parts search application will permit the searching of parts by item description or function group (major system category). The parts application will provide the ability to submit electronically a parts order, parts quote, or parts return request directly to Pierce Manufacturing for processing. Warranty Screen The Warranty screens will provide dealers the ability to submit electronically warranty claims directly to Pierce Manufacturing for reimbursement. My Reports Screens The My Reports screens will provide access to multiple dealer reports to allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts. Technical Support Screens The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided. Training The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in Pierce Manufacturing training classes will be provided. About Pierce Access to customer service articles, corporate news, quarterly newsletters, and key contacts within the Customer Service Department will be provided. The current Customer Service Policy and Procedure Manual, detailing the operation of the Customer Service group will also be accessible.
0620362	Consortium, HGAC	
0535579	Not Required, Unit of Measure, (no pump, no tank)	
0030006	Bid Bond Not Requested	BID BOND NOT REQUESTED A bid bond will not be included. If requested, the following will apply: All bidders will provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract. Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

0816571	Performance Bond, 100% with 25% Warranty Bond, 1 Yr, and Payment Bond, PPI Terms	PERFORMANCE BOND, 1 YEAR The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited Warranty period, whichever is shorter. Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible. If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month Pierce accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month. The seller will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.
0000007	Approval Drawing	APPROVAL DRAWING A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc. A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.
0682087	Drawing, Compartment Layout, Tiller	DRAWING, COMPARTMENT LAYOUT A basic drawing will be provided for the interior body compartments. This drawing will be provided for graphic representation only and will include such things as shelves, trays, reels, dividers, air control panels, air bottle storage bins, poly boxes, etc.
0781461	Electrical Diagrams, Hard, CD or USB Flash Features	ELECTRICAL WIRING DIAGRAMS There will be electrical wiring diagrams, provided for the model of chassis and body in the following configurations: - no hard copies of the electrical diagrams - one (1) USB flash drive with the electrical diagrams provided - no CDs of the electrical diagrams provided
0626490	Enforcer Chassis, Tractor (Tiller)	ENFORCER CHASSIS The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.
0000110	Wheelbase	WHEELBASE The wheelbase of the vehicle will be 167.00".
0000070	GVW Rating	GVW RATING The gross vehicle weight rating will be 73,300 LBS.
0729280	Frame Rails, 13.38 x 3.50 x .375, Enforcer	FRAME The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.

0889469	Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	FRAME REINFORCEMENT In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb. The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.
0630705	Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer	FRONT NON DRIVE AXLE The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 19,500 lb. Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron. The center cross members and side plates will be constructed out of 80,000-psi yield strength steel. Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations. There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension. The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load. Camber at load will be zero degrees for optimum tire life. The ball joint bearing will be of low friction design and be maintenance free. Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided. The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase. The axle will have a turning angle of up to 45 degrees.
0030264	Suspension, Front TAK-4, 19,500 lb, Qtm/AXT/Imp/Vel/Enf/SFR	FRONT SUSPENSION Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 19,500 lb. The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment. Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension. The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms. The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side. The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	FRONT SHOCK ABSORBERS KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.
0000322	Oil Seals, Front Axle	FRONT OIL SEALS Oil seals with viewing window will be provided on the front axle.
0802633	Tires, Front, Goodyear, Armor Max MSA, 385/65R22.50, 18 ply, Fire Ser. Load Rtg	FRONT TIRES Front tires will be Goodyear 385/65R22.5 radials, 18 ply Armor Max MSA tread, rated for 20,050 lb maximum axle load and 68 mph maximum speed.
0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.
0530461	Axle, Rear, Meritor RS30-185, 31,000 lb, Saber/Enforcer	REAR AXLE The rear axle will be a Meritor™, Model RS-30-185, with a capacity of 31,000 lb.

0818717	Top Speed of Vehicle, 65 MPH/104 KPH, Non-NFPA/ULC 2024	TOP SPEED OF VEHICLE NFPA 1900 and ULC 515, 2024 edition requires limits on the top speed of vehicles. NFPA 7.16.1 requires that the maximum top speed of fire apparatus with a GVWR over 33,000 lb will not exceed either 68 mph or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower. NFPA 7.16.2 requires that if the combined water tank and foam agent tank on the fire apparatus exceed 1250 gallons or the GVWR of the vehicle is over 50,000 lb, the maximum top speed of the apparatus will not exceed either 60 mph or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower. It is the intention of the standard to improve safety by limiting the speed of all apparatus to 68 mph, and tankers or heavy apparatus to 60 mph. By requesting an exception to this requirement, the purchasing authority is consciously choosing to operate their apparatus at speeds above the limits designated as safe speeds by the NFPA Technical Committee on Fire Department Apparatus. The top speed of the apparatus as manufactured exceeds the NFPA requirements. Per fire department specification of a top speed that exceeds NFPA requirements, the apparatus will be non-compliant to NFPA 1900 and ULC 515 standards at time of contract execution. The rear tires being specified have a top speed limit of 65 mph / 104 kph from the tire manufacturer.
0555352	Suspen, Rear, Hendrickson FMX 312 EX, Air Ride, 31,000 lb	REAR SUSPENSION Rear suspension will be a Hendrickson FMX 312 EX, air ride with a ground rating of 31,000 lb. The suspension will have the following features: Heavy-duty shock absorbers to protect air springs from overextension Heavy-duty torque rods and bushings Premium, heavy-duty rubber bushings require no lubrication Integrated stabilizer design results in greater stability Low spring rate air springs for excellent ride quality Dual height control valves to maintain level vehicle from side to side
0000485	Oil Seals, Rear Axle	REAR OIL SEALS Oil seals will be provided on the rear axle(s).
0798161	Tires, Rear, Goodyear, G751 MSA, 315/80R22.50, LRL, Single, Fire Service Speed R	REAR TIRES Rear tires will be four (4) Goodyear 315/80R22.50 radials with load range L, all position, G751 MSA , rated for 33,080 lb maximum axle load and 75 mph maximum speed.
0889830	SP Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Single, 315 GY	The tires will be mounted on Alcoa 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.
0589368	Tire Balancing, All, Single Axle	TIRE BALANCE All tires will be dynamically balanced with wheel weights.
0819008	No Tire Pressure Indicator, Fire Department Omits, Non-NFPA 2024 Compliant	TIRE PRESSURE INDICATOR NFPA 1900, 2024 edition, section 7.14.6 requires each tire be equipped with a visual indicator or monitoring system that indicates tire pressure. Per Fire Department specification, a tire pressure indicator is not on the apparatus as manufactured. This apparatus will be non-compliant to NFPA 1900 standards effective at time of contract execution.
0801909	Lug Nut, Covers, Chrome	CHROME LUG NUT COVERS Chrome lug nut covers will be supplied on front and rear wheels.
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	FRONT HUB COVERS Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.
0003246	Axle Hub Covers w/center hole, S/S, Tiller Axle	HUB COVERS (Tiller Axle) Stainless steel hub covers will be provided on the tiller trailer axle. An oil level viewing window will be provided.
0001960	Axle Hub Covers, Rear, S/S, High Hat (Pair)	REAR HUB COVERS A pair of stainless steel high hat hub covers will be provided on rear axle hubs.
0002045	Mud Flap, Front and Rear, Pierce Logo	MUD FLAPS Mud flaps with a Pierce logo will be installed behind the front and rear wheels.
0020257	Mud Flap, Tiller Trailer, Pierce Logo	MUD FLAPS Mud flaps will be installed behind the tiller trailer wheels of the apparatus.

0889282	SP	Chocks, Wheel, Worden HWGY, Super Gripper	WHEEL CHOCKS There will be two (2) pairs of Worden Safety Products, Model HWGY, open bottom wheel chocks provided. Heavy Duty, large molded aluminum wheel chock, yellow powder coat finish.
0722061	SP	Mounting, Chocks, HWG, Pocket, Open Top, Fender, Smooth Alum, 1 Each Side, Tiller	WHEEL CHOCK STORAGE The wheel chocks will be stored in open top storage boxes. The storage box will be fabricated from smooth aluminum. The storage box will be located to the rear of the tractor drive axle on the fender panel. One (1) storage box shall be provided on each side of the tractor. The storage box will be designed to hold Two (2) Worden HWG-SB Supper Gripper wheel chocks. They will be mounted in a fashion that allows the fuel door to open a full 90 degrees. The wheel chocks will drop in from the top and be held in place with a retaining strap. Drain holes will be provided.
0822288		ABS Wabco Brake System, Single Axle, Tiller, NFPA 1900/ULC	ANTI-LOCK BRAKE SYSTEM The vehicle will be equipped with a Wabco tractor 4S4M and tiller tractor 2S2M anti-lock braking system. The chassis ABS will provide four (4) channel anti-lock braking control on the front and rear axle. The trailer ABS will provide two (2) channel anti-lock braking control on the tiller axle. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control. A tiller trailer ABS fault lamp will be provided in the tiller cab and the chassis cab. Two (2) connectors are provided to read the diagnostics for each ABS system. The two (2) diagnostic systems communicate on different protocols requiring different diagnostics - SAEJ1587 versus J1939.
0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	BRAKES The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.
0803729		Brakes, Meritor, Cam, Rear, 16.50 x 8.63" No Dust Shield	The rear brakes will be Meritor™ 16.50" x 8.63" cam operated with automatic slack adjusters. Dust shields cannot be provided.
0020784		Air Compressor, Brake, Cummins/Wabco 18.7 CFM	BRAKE SYSTEM AIR COMPRESSOR The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.
0637584		Brake Reservoirs, 5,376 Cubic Inch Minimum Capacity, Saber FR/Enforcer	BRAKE SYSTEM The brake system will include: Brake treadle valve Heated automatic moisture ejector on air dryer Total air system minimum capacity of 5,376 cubic inches Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi Spring set parking brake system Parking brake operated by a push-pull style control valve A parking "brake on" indicator light on instrument panel Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa) 1/4 turn drain valves on each air tank The air tank will be primed and painted to meet a minimum 750 hour salt spray test. The air tanks will be painted job color (lower). To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.
0630489		Air Dryer, Bendix, AD-9, With Wet Tank, Heated, Saber FR/Enforcer	BRAKE SYSTEM AIR DRYER The air dryer will be a Bendix AD-9 air dryer, with spin-on coalescing filter cartridge and 100 watt heater.
0000790		Brake Lines, Nylon	BRAKE LINES Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

0000856	Air Inlet, with Kussmaul Air Eject	AIR INLET WITH AUTOMATIC EJECT One (1) air inlet with Kussmaul Air Eject will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will automatically disconnect the air line when the truck is started. It will be equipped with a male coupling and be located in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female coupling will also be provided with the loose equipment.
0643363	Outlet, Air, with Shut Off Valve, Location	AIR OUTLET One (1) air outlet will be installed with a female coupling located recessed LS tractor access steps under top step per signed AD print. This system will tie into the "wet" tank of the brake system, include an 85 psi pressure protection valve in the outlet line to prevent the brake system from losing all air, and include a quarter turn shut off valve mounted at the tank. The valve and hoses will be mounted to the tank as high as possible to ensure maximum clearance and protect the lines from being damaged by brush and rocks during off-road operations.
0646276	Box, Recessed, Smooth Alum, for Air Fitting	RECESSED BOX FOR AIR FITTING One (1) air outlet will have an smooth aluminum recessed box provided. The box(es) will allow the air fitting to be recessed inside the stepwell to prevent damage. for air outlet in LS turntable steps.
0671473	Cover, Air Outlet Connection, 4-way	COVER OVER AIR OUTLET One (1) air outlet will be covered with a hinged, treadplate cover. The cover will be top-hinged.
0656908	All Wheel Lock-up, Single Prk Brk Control	ALL WHEEL LOCK-UP An all wheel lock-up system will be installed which applies air to the front brakes and uses the spring brake at the rear. Front brakes will apply with the standard parking brake control.
0825950	Drain, Remote Air Tank, w/Pull Cable, All Tanks, Tiller	REMOTE AIR TANK DRAIN There will be a remote cable controlled drain valve installed on each air supply reservoir. The drain valve will be actuated from the side of the vehicle and be a vinyl covered stainless steel cable, firmly attached to the underside of the vehicle. A separate mounting location for the tiller trailer air tank pull cables will be provided. A loop will be provided at the cable end for ease of pulling the drain.
0808503	Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2027, Enforcer	ENGINE The chassis will be powered by an electronically controlled engine as described below: Make: Cummins® Model: X15 Power: 605 hp at 1800 rpm Torque: 1850 lb-ft at 1000 rpm Governed Speed: 2100 rpm Emissions Level: EPA 2027 Fuel: Diesel Cylinders: Six (6) Displacement: 912 cubic inches (14.9L) Starter: Delco 39MT™ Fuel Filters: Spin-on style filter from Cummins®. The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected. The engine will be filled with FA-4 10W30 oil as required by Cummins.
0811409	Not Required, Engine Contingency Adjustment	
0730808	Filters, Remote Mounted, Oil, Fuel, X15, VEL/AXT/Enf	REMOTE MOUNTED ENGINE FILTERS The engine fuel and oil filters will be remote mounted for ease of maintenance.

0745684	SP High Idle w/Electronic Engine, Auto On, 90 sec Delay, Custom	HIGH IDLE An automatic high idle will be provided that will automatically maintain a preset engine rpm whenever the engine has been idling for 90 seconds and the interlocks are met. A momentary switch will be installed, at the cab instrument panel, for deactivation. The high idle will reactivate whenever the ignition switch or an interlock is reset and the engine has been idling for 90 seconds. The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. This will only occur when the pump is not engaged.
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine	ENGINE BRAKE A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver. The driver will be able to turn the engine brake system on/off and have a high, medium and low setting. The engine brake will activate when the system is on and the throttle is released. The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine. The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated. The ABS system will automatically disengage the auxiliary braking device, when required.
0644227	Clutch, Fan, Air Actuated, Saber FR/Enforcer	CLUTCH FAN A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.
0640477	Air Intake, Metal Screen, Saber FR/Enforcer	ENGINE AIR INTAKE The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille. A stainless steel metal screen will be installed at the inlet of the air intake system that will meet current edition of applicable NFPA standards. The air cleaner and stainless steel screen will be easily accessible by tilting the cab.
0814375	Exhaust System, Horizontal, Right Side	EXHAUST SYSTEM The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab. The exhaust will terminate horizontally ahead of the right side rear wheels and will be flush with the body rub rail. The exhaust pipes will be aluminized steel. There will be an aluminized steel exhaust diffuser reduced to 5.00" in the center to accommodate the fire department's air recovery system with a standard straight tip on the end provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.
0829493	Radiator, Enforcer X15	RADIATOR The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards. For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes. The radiator core will have a minimum front area of 1060 square inches. The radiator will be compatible with commercial antifreeze solutions. The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain. The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap. A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system. Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.
0001090	Cooling Hoses, Rubber	COOLANT LINES Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing. Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

0828627		Fuel Tank, 50 Gallon, Dual Fill, Tractor Chassis	FUEL TANK A 50 gallon fuel tank will be provided and mounted at rear of chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps. A .75" drain plug will be provided in a low point of the tank for drainage. Duel fills shall be located on the chassis on the vertical portion of the fender skirting area. The inlets shall be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only." A .50" diameter vent will be provided running from top of tank to just below fuel fill inlet. The tank will meet all FHWA 393.67 requirements, including a fill capacity of 95 percent of tank volume.
0001129		Lines, Fuel	All fuel lines will be provided as recommended by the engine manufacturer.
0828880	SP	DEF Tank, 9 Gallon, DS Fill, Fwd of Axle, Tiller	DIESEL EXHAUST FLUID TANK A 9 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body forward of the axle. A 0.50" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be located on the driver's side of the body and be covered with a lift and turn latch, polished stainless steel door that is marked "Diesel Exhaust Fluid Only". The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
0723716		Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	FUEL PRIMING PUMP A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.
0582243		Shutoff Valves, Fuel Line @ Primary Filter, Cummins	FUEL SHUTOFF A fuel line shutoff valve will be installed on both the inlet and outlet of the primary fuel filter.
0553019		Cooler, Engine Fuel, Imp/Vel, SFR/Enf	FUEL COOLER An air to fuel cooler will be installed in the engine fuel return line.
0578959		Fuel/Water Separator, Racor Inline	FUEL SEPARATOR The engine will be equipped with a Racor in-line spin-on fuel and water separator in addition to the engine fuel filters.
0801890		Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4500P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with amber light and buzzer will be installed on the cab instrument panel.
0644809		Transmission, Shifter, 6-Spd, Push Button, 4500 EVS, 4+2 Mode, AXT/Qtm/Enf	TRANSMISSION SHIFTER A six (6)-speed push button shift module with four (4) + two (2) "Mode" selector will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, 6th - 0.67 to 1.00, R - 5.55 to 1.00.
0684459		Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0522824		Mode, Downshift, Aggressive downshift to 3rd, w/engine brake, 6 speed	DOWNSHIFT MODE (w/engine brake) The transmission will be provided with an aggressive downshift mode. This will provide earlier transmission downshifts to 3rd gear from 6th gear, resulting in improved engine braking performance.
0801876		Fluid, 4000 Series Trans, Allison Approved TES-668 Synthetic, IPOS, Custom	TRANSMISSION FLUID The transmission will be provided with TranSynd, or other Allison approved TES-668 heavy duty synthetic transmission fluid.

0001375		Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.
0669988		Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.
0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.
0550144		Logo/Emblem, on Horn Button	LOGO AND CUSTOMER DESIGNATION ON HORN BUTTON The steering wheel will have an emblem containing the Pierce logo and customer name. The emblem will have three (3) rows of text for the customer's department name. There will be a maximum of eight (8) characters in the first row, 11 characters in the second row and 11 characters in the third row. The first row of text will be: San The second row of text will be: Mateo The third row of text will be: Consolidated
0819409	SP	Cover Plate, Aluminum, Curved over Tractor Fender, Tiller	SMOOTH ALUMINUM TRACTOR FENDER COVERS There will be .125" aluminum covers provided over the rear tractor fenders on each side. The covers will be curved to follow the contour of the fender and will be sized from top of wheel chock brackets to transition where fender curve meets flat area under 5th wheel.
0722252	SP	Bumper, 10" Extended, Stainless, Polished, Saber FR/Enforcer	BUMPER A one (1)-piece, 8 gauge stainless steel bumper, with a .38" bend radius will be provided. The bumper will be a minimum 10.00" high will be attached to the front of the chassis frame. The bumper will be polished. The bumper will be extended 10.00" from front face of cab and have 45 degree corners. GRAVEL PAN A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.
0778092		Lift & Tow Package, Enforcer	LIFT AND TOW MOUNTS Mounted to the frame extension will be lift and tow mounts. The lift and tow mounts will be designed and positioned to adapt to certain tow truck lift systems. The lift and tow mounts with eyes will be painted the same color as the frame.
0511353		Tow Eyes, S/S, Below Deck, Extd To Hit Ground Prior to Bumper	TOW EYES Two (2) stainless steel tow eyes will be installed under the bumper and attached to the front frame members. The inner and outer edges of the tow eyes will have a .25" radius. The tow eyes will extend down to contact the road surface before the bottom edge of the bumper. The tow eyes will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow eyes will not be used for lifting of the apparatus.
0689308		Notch, Front For Recessing Of Q2B, Stainless Bumper	FRONT BUMPER NOTCH The front bumper will be notched for recessing of the Q2B siren. The notch will be designed so that the bumper is one (1) continuous piece. The notch will be welded in place for strength with a continuous top and bottom flange. All areas will be polished for appearance. The siren will be located right side of the bumper.
0692444		Recess, Front/Side Warning Light, In Angled Corner of Bumper	SIDE ZONE LIGHT MOUNTING The front warning lights on each side will be recessed into the angled portion of the bumper extension to protect the light from damage. The recessed bracket will be made of polished stainless steel.
0698960		Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	FRONT BUMPER UL-LX COATING Protective black UL-LX® coating will be provided on the outside exterior of the top front bumper flange. It will not be sprayed on the underside of the flange. The lining will be properly installed by an authorized UL-LX dealer.

0648332	Cab, Enforcer, 7010	CAB The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder. The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises. For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards. The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly. The front of the cab will be constructed of a 0.13" firewall plate, covered with a minimum 0.090" front skin thickness, and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin. The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab. The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability. The centerline of front axle to the rear of the cab will be 70.00" long. The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed. The floor to ceiling height inside the crew cab will be 64.50" in the center and outboard positions. The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers. The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure 51.50" to the rear wall. The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants. The cab will be a full tilt cab style. A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab. CAB ROOF DRIP RAIL For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof. FENDER LINERS Full circular inner fender liners in the wheel wells will be provided. PANORAMIC WINDSHIELD A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance. WINDSHIELD WIPERS Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements. The washer reservoir will be able to be filled without raising the cab.
0727969	Engine Tunnel, X15, Foil Insulation w/Mech Fasteners, Enforcer	ENGINE TUNNEL Engine tunnel side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room. The engine tunnel will be insulated for protection from heat and sound. Perforated foil faced insulation will be over a 1.00" thick closed cell foam affixed with pressure sensitive adhesive and further secured with mechanical fasteners. Thermal rating for this insulation will be -40 degrees Fahrenheit to 300 degrees Fahrenheit. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards. The engine tunnel will be no higher than 18.00" off the crew cab floor.
0887601	Cab Insulation, Enforcer/Saber FR	INTERIOR CAB INSULATION The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, a minimum of 1.00" insulation in the crew cab floor, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

0633594	Rear Wall, Interior, Adjustable Seating	INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING) The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.
0632103	Rear Wall, Exterior, Cab, Saber FR/Enforcer	CAB REAR WALL EXTERIOR COVERING The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.
0622582	Cab Lift, Elec/Hyd, Manual Override, Control Loc Feature, Sab FR/Enf	CAB LIFT A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. Hydraulic pump will have a manual override for backup in the event of electrical failure. Lift controls will be located LS8 to the left of the transverse area. The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal. The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position. The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position. For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered. Cab Lift Interlock The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.
0683356	Cab Lift Stay Arm, Painted Yellow	PAINTED CAB LIFT STAY ARM The cab lift stay arm will be painted yellow.
0695930	Grille, Bright Finished, Front of Cab, Enforcer	GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.
0512716	Scuffplate, Rear of Engine Tunnel	SCUFFPLATE A brushed stainless steel scuffplate will be provided on the entire rear vertical surface of the engine tunnel.
0002224	Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	DOOR JAMB SCUFFPLATES All cab door jambs will be furnished with a 1.00" polished stainless steel scuffplate, mounted on the striker side of the jamb.
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	
0015440	No Chrome Molding, On side of cab	
0521669	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	MIRRORS A Retractable, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.
0072484	Mirror, Two (2), 10" Round Convex, Tiller Body	CONVEX MIRRORS (tiller body) A 10.00" diameter round convex mirror with adjustable arm will be installed on each side rear of the tiller body.
0677412	Switch, Mirror Heat, MUX Switch Panel, Location	MIRROR HEAT CONTROL The master mirror heat switch will be provided on a MUX switch panel located Panel 10 which controls all heated mirrors. The switch will be able to turn the heat on or off.

0648170	Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	DOORS To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high. The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands. Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands. The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed. A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit. A chrome grab handle will be provided on the inside of each cab door for ease of entry. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted. The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.
0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	Door Panels The inner cab door panels will be constructed out of brushed stainless steel.
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	ELECTRIC OPERATED CAB DOOR WINDOWS All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.
0528251	Electric Door Locks, Cab Doors, QXS, AXT, Sab, Enf	ELECTRIC CAB DOOR LOCKS The front driver and officer doors will have a door lock master switch that will control all front and rear crew cab door locks. Each rear crew cab door will have its own lock control. There will be one (1) concealed switch located in an easily accessible chassis specific location that will unlock all the doors.
0762273	Steps, 4-Door Cab, Dual, 1" Longer Bottom Step, Saber FR/Enforcer	CAB STEPS A dual step will be provided below each cab and crew cab door. The steps will be designed with a grip pattern punched into bright aluminum treadplate material providing support, slip resistance, and drainage. The steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 7.00" minimum depth. The bottom step will protrude past the middle step 2.00". The step design raises the middle step higher and closer to the cab floor, resulting in a 12.00" distance from the step to cab floor in the cab and a 10.25" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step will be approximately 11.90" and from first step to middle step will be approximately 12.00". The vertical surface of the upper step well will be aluminum treadplate. The first step will be lit by a white 12 volt DC LED light provided on the step.
0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	CAB EXTERIOR HANDRAILS A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	STEP LIGHTS There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps. One (1) light for the left side cab access steps. Two (2) lights for the left side crew cab access steps. Two (2) lights for the right side crew cab access steps. One (1) light for the right side cab access step. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The lights will be activated when the battery switch is on and the adjacent door is opened.
0583698	Fenders, S/S on cab, Extra Wide, Saber/Enf	FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.

0825060	Tractor 5th Wheel and Fenders, Single	FIFTH WHEEL The fifth wheel will be designed to allow the tiller trailer to pivot fore & aft and be rotated. The fifth wheel will also be capable of full operation up to a 14 degree break over angle. A fill and a gauge port will be provided on the top of the trailer goose neck for maintenance. LOCKOUT A fifth wheel lockout system will be provided to limit motion during aerial operations. The fifth wheel lockout system, when activated, will prevent movement between the upper and lower plates of the fifth wheel assembly. In the normal road travel condition the cylinder mounted solenoid valves will be open and will allow transfer of oil between the front and rear pair of cylinders. When the stabilizers are in their proper supporting position and as the aerial leaves the boom support, the solenoid valves will close. The closed valves will allow no oil to be transferred and the fifth wheel assembly will become rigid. There will be a cylinder lockout indicator located in the cab. FENDER PANELS The chassis behind the cab will be assembled with fender panels over the wheels. The fender panels will be fabricated of .125"-5052 aluminum with a 38,000 psi tensile strength. Fender design will be provided for prevention of rust pockets and ease of maintenance. FENDER CROWNS Stainless steel fender crowns will be provided around the rear wheel openings. A rubber welting will be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion. WALKWAY The area over the frame rails between the cab and fifth wheel will be covered with aluminum treadplate to serve as a walkway area. The walkway area will be properly reinforced with a steel substructure attached to the frame rails. RUNNING BOARDS Running boards will be installed on each side directly behind the cab for access to the walkway area behind the cab and the turntable. The running boards will be covered with aluminum treadplate.
0557023	Handrail, 10", Below Cab Windshield, Pair	HANDRAILS BELOW CAB WINDSHIELD A 10.00" long x 1.25" diameter handrail will be mounted below the front cab windshield, one (1) on each side. The handrails will be extruded aluminum with a ribbed design to provide a positive gripping surface.
0637984	Window, Side of C/C, Fixed, Saber FR/Enforcer	CREW CAB WINDOWS One (1) fixed window with tinted glass will be provided on each side of the cab, to the rear of the front cab door. The windows will be sized to enhance light penetration into the cab interior. The windows will measure 18.70" wide x 23.75" high.
0012090	Not Required, Windows, Front/Side of raised roof	
0779033	Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	
0651515	Window Protector Bars, Knurled, Crew Doors, 2" Above Window Sill Plate	WINDOW PROTECTOR BARS, CREW CAB DOORS A knurled window protector bar will be installed on each crew cab door, 2.00" above the bottom of the window opening. The bar will extend from the front of the crew cab door to the rear of the crew cab door, mounted as close to the door frame as possible.
0734681	Compt, 16.50 W x 25.50 H x 15 D, Ea Side C/C, Sgl Pan, 70" SFR/Enf	STORAGE COMPARTMENTS Provided on each side of the cab, to the rear of the crew cab access doors, will be a storage compartment. The compartments will be 16.50" wide x 25.50" high x 15.00" deep. The doors will be two (2) single pan doors painted to match the cab exterior with a locking D-ring latch with #751 key, one (1) on each side of the cab. A pneumatic stay arm for each exterior door will be used as a doorstop. The compartment interior will be painted to match the cab interior. Compartment Light There will be two (2) white LED strip lights provided, one (1) each hinged side of compartment door openings, located horizontally, high on wall.
0604171	Scuffplate, Brushed S/S, Bottom of Door Frame, Each	DOOR FRAME SCUFFPLATE There will be two (2) scuffplate(s) provided for the bottom of the door frame of Cab Aux Compt each side. Each scuffplate will be brushed stainless steel with a 0.38" lip down.
0816748	SP Tag, Special	SPECIAL TAG The following one (1) tags or labels will be provided officer side overhead PTT switch on the chassis. The tag/label will be configured and read "Radio #2 PTT".

0807455	SP	Spacer, Mounting Bracket for Glove Box (Spacer Only)	SPACER, MOUNTING There will be one (1) stainless steel spacer provided on rear wall of crew cab behind glove box. Ensure spaced away from wall to clear the seat channel. Match 38841. The spacer will be 17.25" wide x 10.00" high x 1.00" deep with 1.25" lips on the left and right for mounting. The spacer will be used to mount a glove box 1" off the wall.
0894089		Dash, Heavy Duty Metal, Enforcer	CAB DASH The driver side dash, switch panel located to the right of the driver, and center console will be constructed of metal and painted gray. The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior. The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.
0828799	SP	Shelf, Equip Mounting, Alum, Rr Fcng, FW, 3-Piece, Wall, UL-LX, SFR/Enf	EQUIPMENT MOUNTING SHELF There will be a shelf provided in the crew cab for permanent mounting of equipment. The shelf will be divided into three (3) pieces; left, center and right. The shelves will extend across the crew cab from the left side cab wall to the right side cab wall. The left and right side of the shelf will be 17.75" deep and start at the crew cab door jamb. The left and right side of the shelf will have a 2.00" lip around the four (4) sides. They will be mounted 17.00" above the rear facing seat risers. The area under the left and right of the shelf will be open. There will be a wall provided below the rear of the shelf on the left and right side to enclose the area below the shelf. The center of the shelf will be 40.25" wide x 21.00" deep. It will be mounted to the top of the engine tunnel on the rear, flat portion. The shelf will stick out past the engine tunnel. The front and back of the center shelf will have a lip to match the left and right side shelves. The left and right sides of the center shelf will be 12.00" high and mount to the left and right side shelves. The shelf will be fabricated from 0.188" aluminum and sprayed with black UL-LX® polyurethane/polyurea abrasive resistant material.
0806850	SP	Mounting Provisions, 1/4" Alum, Full Engine Tunnel, UL-LX. Enforcer	MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.25" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel 1.00" to allow for wire routing below the plate. The mounting plate will be sprayed with black UL-LX® polyurethane/polyurea elastomer abrasive resistant material to match the cab interior.
0727685	SP	Tray, Equipment Mounting, Aluminum, Special Lip	EQUIPMENT MOUNTING TRAY There will be a tray for mounting of equipment located rear wall. The front and sides of the tray will be 2.0" high and the rear of the tray will be 9.0" high. The size of the tray will be match job # 38841. Each tray will be fabricated from aluminum and will be brushed aluminum. Tray not intended for storage of loose equipment. Items stored on tray will be permanently attached to meet current edition of applicable NFPA standards.
0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	CAB INTERIOR The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service. The engine tunnel will be padded and covered, on the top and sides, with dark silver gray 36 ounce leather grain vinyl resistant to oil, grease, and mildew. For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum. The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling. The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs. All wiring will be placed in metal raceways. CAB INTERIOR UPHOLSTERY The cab interior upholstery will be 36 oz dark silver gray vinyl.
0753903		Cab Interior, Paint Color, Saber FR/Enforcer	CAB INTERIOR PAINT The cab interior metal surfaces, excluding the rear heater panels, will be painted gray, vinyl texture paint. The rear heater panels will be painted black, vinyl textured paint.
0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	CAB FLOOR The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler. The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

0722038	HVAC, Heavy-Duty, Enforcer, w/X15, CARE	DEFROST/AIR CONDITIONING SYSTEM A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area. Cab Defroster A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following: One (1) adjustable outlet directed towards the left side cab window. One (1) adjustable outlet directed towards the right side cab window. Six (6) fixed outlets directed at the windshield. The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements. Cab/Crew Auxiliary Heater There will be no auxiliary heater provided in the rear facing seat risers. Air Conditioning A 19.10 cubic inch compressor will be installed on the engine. A roof-mounted condenser with a 78,000 BTU output at 2,400 SCFM that meets and exceeds the performance specification will be installed on the cab roof. The condenser cover to be painted to match the cab roof. The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours. The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a metal cover painted to match the cab interior. The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications. Adjustable air outlets will be strategically located on the forward plenum cover per the following: Four (4) outlets directed towards the seating position on the left side of the cab. Four (4) outlets directed towards the seating position on the right side of the cab. Adjustable air outlets will be strategically located on the evaporator cover per the following: Minimum of five (5) outlets directed towards crew cab area. A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be hinged with two (2) thumb latches. The air conditioner refrigerant will be R-134A and will be installed by a certified technician. Climate Control An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control. The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature. The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position. The system controller will be located within panel position #12. Gravity Drain Tubes Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.
0624005	Sun Visor, Vinyl/Fabric, AXT, Qtm, SFR/Enf	SUN VISORS There will be two (2) vinyl covered sun visors provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab. There will be a black plastic thumb latch provided to help secure each sun visor in the stowed position.
0634328	Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	GRAB HANDLES A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.
0730590	SP Lights, Engine Compt, Custom, Auto Sw, TecNiq E10-W000-1 LED	ENGINE COMPARTMENT LIGHTS There will be one (1) TecNiq®, Model E10-W000-1, 12 volt DC, white LED light(s) installed under the cab to be used as engine compartment illumination. These light(s) will be activated automatically when the cab is raised.

0819011		Fluid Check Access, Not Required, Non-NFPA/ULC 2024 Compliant	ACCESS TO ENGINE DIPSTICKS The cab will be tilted for access to the engine oil and transmission fluid dipsticks. NFPA 1900, 2024 edition, section 7.17.1 and CAN/ULC S515:2024 edition, section 5.2 requires the fire apparatus to be designed so all manufacturer's recommended routine maintenance checks of lubricant and fluid levels can be performed by the operator without lifting the cab of a tilt-cab apparatus or without the need for hand tools. The fire apparatus purchaser will realize that by requesting an exception to this aspect of NFPA 1900, this fire apparatus will not contribute to the national standardization initiative. Per the purchaser's specification, this apparatus will not be compliant to NFPA 1900 standards in this regard.
0583039		Not Required, Side Roll and Frontal Impact Protection	
0622618		Seating Capacity, 5 Belted Seats	SEATING CAPACITY The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be five (5).
0636957		Seat, Driver, Pierce PSV, Air Ride, High Back, PRIMARY, SFR/Enf	DRIVER SEAT A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat will be furnished with a 3-point, shoulder type seat belt.
0632923		Seat, Officer, Pierce PSV, Air Ride, High Back, PRIMARY, SFR/Enf	OFFICER SEAT A seat will be provided in the cab for the passenger. The seat design will be a cam action type, with air suspension. The seat back will be a high back style with 9 degree fixed recline angle and side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat will be furnished with a 3-point, shoulder type seat belt.
0002517		Not Required, Radio Compartment	
0102788		Not Required, Seat, Rear Facing C/C, LS Outboard	
0102783		Not Required, Seat, Rr Facing C/C, Center	
0102790		Not Required, Seat, Rear Facing C/C, RS Outboard	
0889201	SP	Seat, Fwd Fcng C/C, LS Otbrd, Pierce PSV,Hi-Back,Foldup,5.5" Inbrd,SECONDARY,Enf	FORWARD FACING DRIVER SIDE OUTBOARD SEAT There will be one (1) forward facing, foldup seat provided at the driver side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be a minimum of 15.00" from the front of the cushion to the face of the seat back and designed with EVC (elastomeric vibration control). The seat will be moved an additional 5.50" inboard from the standard location. The seat will be furnished with a 3-point, shoulder type seat belt.
0103319		Not Required, Seat, Forward Facing C/C, Center	
0889200	SP	Seat, Fwd Fcng C/C, RS Otbrd, Pierce PSV, Hi-Back, Foldup, 5.5" IB,SECONDARY,Enf	FORWARD FACING PASSENGER SIDE OUTBOARD SEAT There will be one (1) forward facing foldup seat provided at the passenger side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be a minimum of 15.00" from the front of the cushion to the face of the seat back and designed with EVC (elastomeric vibration control). The seat will be moved an additional 5.50" inboard from the standard location. The seat will be furnished with a 3-point, shoulder type seat belt.
0890080	SP	Panel, False Wall, Vertical, Compartment Interior	FALSE PANEL(S) There will be a total of two (2) false panel(s) provided on the exterior compartment(s). The panel(s) will be constructed of 0.090" aluminum, painted the same as the compartment. The panel(s) will be located in the (1) each inside rear facing crew cab seat risers to block off area over fenders. Match 36270.

0654721	SP	Wiring Holes, 3", Grommets, Cab Compartments	WIRING HOLES There will be wire chase holes, 3.00" in diameter, with grommets provided forward outboard corner of right side rear facing overhead cabinet in crew cab (Match 36270).
0753973	SP	Rack, Storage, Alum, Latex Gloves (3), Side Load	STORAGE BOX There will be two (2) storage rack(s) provided, designed to hold and dispense three (3) boxes of latex gloves. The rack will be constructed of aluminum and located One (1) on rear wall on polished S/S spacer and one (1) on engine tunnel with exact location at final inspection. The rack will be painted to match the cab interior. Each individual storage box will be 5.00" wide x 3.50" deep x 10.00" high. A slot will be provided on the front of each box to dispense the gloves.
0818615	SP	Cabinet, Rr Fcng, LS, Overhead, 21 W x 10 H x 20 D, Lift, SFR/Enf	LEFT SIDE REAR FACING OVERHEAD STORAGE CABINET There will be an overhead rear facing cabinet installed at the raised roof within the crew cab, on the left side of the air conditioner. The cabinet will be 21.00" wide x 10.00" high x 20.00" deep with one (1) liftup door, painted to match the cab interior with a non-locking paddle latch. A pneumatic stay arm will be provided to hold the door open. The cabinet will be notched around the wireway cover. The cabinet will be constructed of smooth aluminum and painted to match the cab interior. Cabinet Light There will be one (1) white LED strip light installed horizontally above each compartment door opening. The lighting will be controlled by an automatic door switch.
0818619	SP	Cabinet, Rr Fcng, RS, Overhead, 21 W x 10 H x 20 D, Lift, Drop Btm, SFR/Enf	RIGHT SIDE REAR FACING OVERHEAD STORAGE CABINET There will be an overhead rear facing cabinet installed at the raised roof within the crew cab, on the right side of the air conditioner. The cabinet will be 21.00" wide x 10.00" high x 20.00" deep at the bottom with one (1) liftup door, painted to match the cab interior with a non-locking paddle latch. A pneumatic stay arm will be provided to hold the door open. The cabinet will be notched around the wireway cover. The cabinet will be provided with a sweep out style false floor. The clear door opening height won't be affected. The entire bottom of the cabinet will hinge down for better access within the cabinet. The hinge will be at the rear of the cabinet so that when the bottom is dropped and the door is open a large area for access will be provided. The drop down door will be held open with two (2) pneumatic cylinders. The door will be held shut with a bolt on each corner. The cabinet will be constructed of smooth aluminum and painted to match the cab interior. Cabinet Light There will be one (1) white LED strip light installed horizontally above each compartment door opening. The lighting will be controlled by an automatic door switch.
0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	SEAT UPHOLSTERY All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) will have four (4) seating positions.
0511471		No SCBA Brackets Required In Cab Seats, Imp/Vel, AXT 2010, Qtm 2010,Saber FR/Enf	
0734952		Door, Access, Front, (2) Rear Facing Seat Risers, No Heater	ACCESS DOOR An access door will be provided in the front edge of each rear facing seat riser with a drop down door. The drop down door will be provided with a Southco C2 black powder coated flush latch and painted to match the cab interior. There will be no louvers.
0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	SEAT BELTS All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards. The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position. The 3-point shoulder type belts will also include the ReadyReach® D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location. Any flip up seats will include a 3-point shoulder type belts only. To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.
0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	HELMET STORAGE PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC S515:2024 edition, section 5.2, requires a location for helmet storage be provided. There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

0647647	Lights, Dome, FRP Dual LED 4 Lts	CAB DOME LIGHTS There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab. The color of the LED's will be red and white. The white LED's will be controlled by the door switches and the lens switch. The color LED's will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.
0652881	Lights, Dome, FRP Dual LED	ADDITIONAL DOME LIGHTS There will be two (2) dual LED dome light(s) with black bezel(s) mounted in the cab and/or crew cab located centered over the forward facing rear seats, one each side, MATCH 38841. The color of the LED's will be red and white. The white LED(s) will be controlled by the door switches. The color LED(s) will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position. The light(s) may be load managed when the parking brake is applied.
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed. The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.
0727540	Spotlight, Golight/RadioRay, Model 20**4GT, LED, 1 Lt	CAB SPOTLIGHT There will be one (1) Golight/RadioRay®, Model 20**4GT, white LED spotlight located on the cab roof, centered on the roof behind the lightbar. The spotlight will be mounted on a painted Z bracket. This light may be load managed when the parking brake is applied.
0650074	Controller, Spotlight, Golight, Wired Dash Mt, 1 Lt	Spotlight Controller There will be one (1) wired dash mounted remote provided for the spotlight.
0649964	Location, Spotlight Controller, Officer's Side	SPOTLIGHT CONTROLLER LOCATION The remote to control each spotlight will be located within reach of the officer.
0832591	SP Handlts, Pelican, 9050, 12v DC, B+, Shoulder Strap, Yellow, Qty	HAND HELD SPOTLIGHT There will be four (4) Pelican Products, Model 9050 LED, hand light(s) provided with a shoulder strap and a 12VDC direct wire vehicle mount charging base located (1) LS1 center high on rear wall, (1) RS1 centered high on rear wall, (1) LS8 on blister under cab lift control, (1) RS8 on forward blister as high as possible below blue sea panel. (Match 38841) Please LABEL FUSE in Blue Sea panel. The light(s) will have the following features: Spot, Flood, Spot/Flood and Flashing modes 3369 lumens of maximum light output Rear taillights with dedicated switch and adjustable colors (Green, Blue, Red) IP67 Rating Flexible battery system that can run on Li-ion battery packs(included), AA Alkaline or AA NiMH cells
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	CAB INSTRUMENTATION The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership. Gauges The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance: Voltmeter gauge (volts): Low volts (11.8 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly High volts (15.5 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly Very low volts (11.3 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly Very high volts (16.0 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly

Engine Tachometer (RPM)
 Speedometer MPH (Major Scale), KM/H (Minor Scale)
 Fuel level gauge (Empty - Full in fractions):
 Low fuel (1/8 full)
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Very low fuel (1/32 full)
 Red caution indicator on the information center with steady alarm
 Amber caution light on gauge assembly
 Engine Oil pressure Gauge (PSI):
 Low oil pressure to activate engine warning lights and alarms
 Red caution indicator on the information center with steady alarm
 Amber caution light on gauge assembly
 Front Air Pressure Gauges (PSI):
 Low air pressure to activate warning lights and alarm
 Red warning indicator on the information center with a steady alarm
 Amber caution light on gauge assembly
 Rear Air Pressure Gauges (PSI):
 Low air pressure to activate warning lights and alarm
 Red warning indicator on the information center with a steady alarm
 Amber caution light on gauge assembly
 Transmission Oil Temperature Gauge (Fahrenheit):
 High transmission oil temperature activates warning lights and alarm
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Engine Coolant Temperature Gauge (Fahrenheit):
 High engine temperature activates an engine warning light and alarms
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
 Low fluid (1/8 full)
 Amber indicator light in gauge dial
 All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

Low coolant
 Trac cntl (traction control) (where applicable)
 Check engine
 Check trans (check transmission)
 Aux brake overheat (Auxiliary brake overheat)
 Air rest (air restriction)
 Caution (triangle symbol)
 Water in fuel
 DPF (engine diesel particulate filter regeneration)
 Trailer ABS (where applicable)
 Wait to start (where applicable)
 HET (engine high exhaust temperature) (where applicable)
 ABS (antilock brake system)
 MIL (engine emissions system malfunction indicator lamp) (where applicable)
 Side roll fault (where applicable)
 Front air bag fault (where applicable)

The following red telltale lamps will be present:

Warning (stop sign symbol)

Seat belt

Parking brake

Stop engine

Rack down

The following green telltale lamps will be provided:

Left turn

Right turn

Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided. Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by a single Emergency Master switch which controls all emergency warning lights including lightbars, cab warning lights, body warning lights and high beam flash if applicable.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

Engine diagnostic port

Transmission diagnostic port

ABS diagnostic port

Roll sensor diagnostic port

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel.

The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

Odometer

Trip mileage

PTO hours

Fuel consumption

Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm.

The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

0509511

Air Restriction Indicator, Imp/Vel,
AXT, Enf MUX

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

0668061	Light, Do Not Move Apparatus, WIn VTX609R Red LED	"DO NOT MOVE APPARATUS" INDICATOR There will be a Whelen, Model VTX609R, red LED indicator light with chrome trim located in the driving compartment. This light will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On." The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.
0509042	Messages, Open Dr/DNMT, Color Dsply,	DO NOT MOVE TRUCK MESSAGES Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged). The following messages will be displayed (where applicable): Do Not Move Truck DS Cab Door Open (Driver Side Cab Door Open) PS Cab Door Open (Passenger's Side Cab Door Open) DS Crew Cab Door Open (Driver Side Crew Cab Door Open) PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open) DS Body Door Open (Driver Side Body Door Open) PS Body Door Open (Passenger's Side Body Door Open) Rear Body Door Open DS Ladder Rack Down (Driver Side Ladder Rack Down) PS Ladder Rack Down (Passenger Side Ladder Rack Down) Deck Gun Not Stowed Lt Tower Not Stowed (Light Tower Not Stowed) Fold Tank Not Stowed (Fold-A-Tank Not Stowed) Aerial Not Stowed (Aerial Device Not Stowed) Stabilizer Not Stowed Steps Not Stowed Handrail Not Stowed Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.
0622798	Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	SWITCH PANELS The built-in switch panels will be located in the lower console or overhead console of the cab. The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.
0802940	Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	WIPER CONTROL Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control will be located above the ignition switch.
0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	HOURLMETER - AERIAL DEVICE The following aerial hour meter messages will be included in the information centers: Aerial Hours, that keeps track of the time the aerial device is in motion. Aerial PTO Hours, that keeps track of the time the aerial master switch is on and the aerial PTO is engaged.
0002615	Switch, Aerial 12V Master	AERIAL MASTER There will be a master switch for the aerial operating electrical system provided.
0032828	No PTO switch req'd - w/aerial piggyback	
0834416	USB, Cab, 4, 12V DC, Dual USB Termination, NFPA1900/ULC	CAB USB There will be four (4) USB terminations with a combination USB type A & C, provided per the following: One (1) within reach of the driver One (1) within reach of the passenger Two (2) on the rear of the engine tunnel, one (1) each side. This circuit may be load managed.

0832998	SP	Wiring, Radio Spare, 50 A 12V DC, Batt Dir, 1st NFPA1900/ULC	SPARE RADIO CIRCUIT There will be one (1) pair of wires, including a positive and a negative for use with radio equipment, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 50 amps at 12 volts DC. Power and ground will terminate PS rear facing overhead compartment, leave loose until final (Cradlepoint 1900 Router, Kenwood NX 5700 and BK M150 Radio power). Termination will be with a Blue Sea twelve (12) circuit fuse block. Wires will be sized to 125% of the protection. Battery Direct loads cannot be Load Managed.
0829482		Wiring, Spare, (1) 10A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st NFPA1900/ULC	SPARE CIRCUITS There will be one (1) shared 10 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be capable of carrying 10 amps The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will (1) RS4 in S/S box, left outboard shelf track high as possible match 38841 and termination with 15 amp, power point plug with rubber cover Spare circuit drop #2 will (1) RS4 in S/S box right outboard shelf track high as possible match 38841 and termination with 15 amp, power point plug with rubber cover Spare circuit drop #3 will not be required and termination is not required with no location Spare circuit drop #4 will not be required and termination is not required with no location Wires will be protected to meet NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.
0826636		Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 1st, NFPA1900/ULC	SPARE CIRCUITS There will be one (1) shared 15 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be capable of carrying 10 amps The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will (1) LS rear facing seat riser on rear wall outboard as high as possible (match 38841) and termination with a Blue Sea 20 Amp six (6) circuit fuse block Spare circuit drop #2 will officer dash below power points per IP layout and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #3 will LS instrument panel near driver by power point plug per layout and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #4 will not be required and termination is not required with no location Spare circuit drop #5 will not be required and termination is not required with no location Spare circuit drop #6 will not be required and termination is not required with no location Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.
0822612		Wiring, Spare, (1) 20A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st NFPA1900/ULC	SPARE CIRCUITS There will be one (1) shared 20 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be capable of carrying 10 amps The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will (1) RS8 high on blister above Pelican light matching 38841 ((2) pelican, (1) key secure 6 and (2) TIC Cameras) and termination with a Blue Sea 20 Amp six (6) circuit fuse block Spare circuit drop #2 will (1) RS4 left side high (Spare) and termination with a three (3) foot pigtail and heat shrink butt splice connectors Spare circuit drop #3 will not be required and termination is not required with no location Spare circuit drop #4 will not be required and termination is not required with no location Spare circuit drop #5 will not be required and termination is not required with no location Spare circuit drop #6 will not be required and termination is not required with no location Wires will be protected to meet NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.

0823643	SP	Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt Dir, NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected directly to the ground on the main battery post. Wires will be capable of carrying 10 amps. Power and ground will terminate (1) LS1 right side upper rear wall matching 38841. Termination will be to a Blue Sea System, Model 5025, 6 circuit fuse block. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed.
0821232		Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025 2nd NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be capable of carrying 20 amps. Power and ground will terminate RS rear facing overhead, leave loose until final inspection. Termination will be to a Blue Sea System, Model 5025, 6 circuit with negative bus bar. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is set.
0821325		Wiring, Spare, 10 A 12V DC 1st NFPA1900/ULC	SPARE CIRCUIT There will be six (6) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be capable of carrying 10 amps. Power and ground will terminate (2) officers dash per IP layout, (1) DS dash per IP, (1) each in metal box mounted inboard side of FF seat riser of each, (1) Tiller cab right side of steering column match 38841. Termination will be with 15 amp, power point plug with rubber cover. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is applied.
0723827	SP	Radio, AM/FM/Media Receiver, Pioneer MVH-S720BHS	AM/FM/MEDIA RECEIVER There will be one (1) Pioneer, Model MVH-S720BHS Digital Media Receiver with Enhanced Audio Functions, Pioneer Smart Sync App Compatibility, MIXTRAX®, Built-in Bluetooth®, HD Radio™ and SiriusXM-Ready™ mounted in the cab per switch panel layout. There will be one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. Antenna will be a roof-mounted rubber antenna located in an open space, on the cab roof.
0679284		Switch, 12V (Inst Pnl), AM/FM Radio, Off Switch, Auto On	SWITCH, MASTER, AM/FM RADIO There will be a remote switch provided inside the cab to control the AM/FM radio. The switch will be installed Per IP layout. The radio will automatically turn on with when the battery switch is turned on.
0889186	SP	Bracket, Mounting, 2 Push Buttons and 1 PTT Button, Horizontally, PS, S/S	PUSH BUTTON MOUNTING BRACKET There will be a mounting bracket provided officer side engine tunnel, match 38841 exactly for the mounting of electric controls. The mounting bracket will be large enough for two (2) push buttons and one (1) intercom push to talk button. The controls and labels will be mounted horizontally, side by side. The bracket will be fabricated from polished stainless steel.
0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	INFORMATION CENTER An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing. The information center will have the following specifications: Operate in temperatures from -40 to 158 degrees Fahrenheit LCD optically bonded to hardened AR glass lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area. Programmed to read US Customary General Screen Design Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur: An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition The information center will utilize an "Alert Center" to display text messages for audible alarm

tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages. A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol.

Home/Transit Screen

This screen will display the following:

Vehicle Mitigation (if equipped)

Water Level (if the water level system includes compatible communications to the information center)

Foam Level (if the foam level system includes compatible communications to the information center)

Seat Belt Monitoring Screen

Tire Pressure Monitoring (if equipped)

Digital Speedometer

Active Alarms

On Scene Screen

This screen will display the following and will be auto activated with pump engaged (if equipped):

Battery Voltage

Fuel

Oil Pressure

Coolant Temperature

RPM

Water Level (if equipped)

Foam Level (if equipped)

Foam Concentration (if equipped)

Water Flow Rate (if equipped)

Water Used (if equipped)

Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

Diagnostics

Faults

Listed by order of occurrence

Allows to sort by system

Interlock

Throttle Interlocks

Pump Interlocks (if equipped)

Aerial Interlocks (if equipped)

PTO Interlocks (if equipped)

Load Manager

A list of items to be load managed will be provided. The list will provide a description of the load. The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.

The screen will indicate if a load has been shed (disabled) or not shed.

"At a glance" color features are utilized on this screen.

Systems

Command Zone

Module type and ID number

Module Version

Input or output number

Circuit number connected to that input or output

Status of the input or output

Power and Constant Current module diagnostic information

Foam (if equipped)

Pressure Controller (if equipped)

Generator Frequency (if equipped)

Live Data

General Truck Data

Maintenance

Engine oil and filter

Transmission oil and filter

Pump oil (if equipped)

Foam (if equipped)

Aerial (if equipped)

Setup

Clock Setup

Date & Time

12 or 24 hour format

Set time and date

Backlight

Daytime

Night time

Sensitivity

Unit Selection

Home Screen

Virtual Button Setup

On Scene Screen Setup

Configure Video Mode

Set Video Contrast

Set Video Color

		Set Video Tint Do Not Move The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated Driver Side Cab Door Passenger's Side Cab Door Driver Side Crew Cab Door Passenger's Side Crew Cab Door Driver Side Body Doors Passenger's Side Body Doors Rear Body Door(s) Ladder Rack (if applicable) Deck Gun (if applicable) Light Tower (if applicable) Hatch Door (if applicable) Stabilizers (if applicable) Steps (if applicable) Notifications View Active Alarms Shows a list of all active alarms including date and time of the occurrence is shown with each alarm Silence Alarms - All alarms are silenced Timer Screen HVAC (if equipped) Tire Information (if equipped) Ascendant Set Up Confirmation (if equipped) Button functions and button labels may change with each screen.
0734854	Collision Mitigation, Not Requested	
0730766	Disable Notifications, Vehicle Information Center	INFORMATION CENTER NOTIFICATIONS DISABLED The Command Zone™ information center notifications will be disabled.
0606249	Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor	VEHICLE DATA RECORDER There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided. The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line. The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs: Vehicle Speed - MPH Acceleration - MPH/sec Deceleration - MPH/sec Engine Speed - RPM Engine Throttle Position - % of Full Throttle ABS Event - On/Off Seat Occupied Status - Yes/No by Position Seat Belt Buckled Status - Yes/No by Position Master Optical Warning Device Switch - On/Off Internal clock syncs the time and date when a laptop is connected Seat Belt Monitoring System A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display and in the center overhead of the cab instrument panel. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following: Seat Occupied & Buckled = Green LED indicator illuminated Seat Occupied & Unbuckled = Red LED indicator with audible alarm No Occupant & Buckled = Red LED indicator with audible alarm No Occupant & Unbuckled = No indicator and no alarm FAULT = Blue LED indicator illuminated The seat belt monitoring screen will become active on the Command Zone color display when: The home screen is active: and there is any occupant seated but not buckled or any belt buckled with an occupant. and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated. The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.
0671276	SP Wiring Only, David Clark, Tractor Cab to Tiller Cab	INTERCOM WIRING ONLY One (1), David Clark intercom system cable will be routed from the cab REAR WALL CREWCAB CENTERED, BEHIND WIREWAY COVER 100' intercom cable, Part C38-100 (18747G-04) to the tiller cab left side rear wall tiller cab just under window, (small coil of cable) for future use.

0763500	SP	Pre-wire, Remote Push-To-Talk, David Clark, Dash Mount	PRE-WIRE REMOTE RADIO PUSH-TO-TALK There will be three (3) David Clark, remote radio Push-To-Talk switch installed at driver switch panel per IP layout, SS switch panel on engine tunnel mounting plate officer side, officer overhead switch panel. This switch is being installed for customer installed intercom. The following will be included: 25.00' of two (2) conductor cable One (1) 18352G-07 five (5) pin MS connector One (1) DC Push To Talk button One (1) PTT Switch Guard
0807925	SP	Camera, Pro-Vision, LS Mux, F/F, R, Cameras, MDVR, 4-Tiller cam, AHD	FRONT, REAR AND TILLER CAMERA SYSTEM The cameras will be located as follows: One (1) color video camera with microphone located at the rear of the vehicle, pointing rearward, automatically displayed when the apparatus is put into reverse on the left side vehicle information center display. One (1) color Analog High Definition (AHD) forward facing video camera for record only. There will be two (2) 7.00" High Definition (HD) monitor displays, located one (1) each side of the tiller cab dash, to view the respective side cameras. Two (2) side cameras will be placed on each side of the tiller body as follows: Two (2) AHD forward facing, activated with the ignition switch Two (2) AHD rear facing, activated with the apparatus in reverse The mobile digital video recorder (MDVR) will be located easily accessible under the forward instrument panel cover . The MDVR will include a 256 gigabit SDXC memory card and lockable cage. There will be an Event Marker Button located mounted to the driver's side dash, location to be specified at pick up. The MDVR will record the six (6) cameras when the battery switch is turned on. The following Pro-Vision® components will be supplied: One (1) Ranger 1080p HD Hybrid MDVR Base KIT with No Camera [256GB] DVR-908T0-256 Includes: Hybrid HD MDVR - 256GB SDXC Card - Lockable Cage - GPS Antenna - Event Marker Button - Software & Guides One (1) Rear Color Camera with infrared, CCD, mic [REAR] CAM.313C One (1) AHD Forward Facing Camera KIT [FRONT] DVR-922 Includes: Camera and 5M A/V Cable (PX-1942) One (1) Video Splitter Cable PD-1456 One (1) PV camera to RCA Interface Cable - SD CAMERAS ONLY PX-1130 Four (4) 10m HD AV Cable PX-1943 Two (2) 5m HD AV Cable PX-1942 Two (2) 7" Waterproof AHD LCD Quad Monitor KIT - 4 Channel PM-1980s Includes: 7" Waterproof AHD LCD Quad Monitor - Monitor Mounting Brackets & Hardware - Power Harness Four (4) AHD Side Camera KIT [2 front facing and 2 rear facing] DVR-920 Includes: Camera and 10M A/V Cable (PX-1943) Four (4) Video Splitter Cable PD-1456 Two (2) Trailer Connection Kit (Includes : Coil Cord, (2) Receptacles , (2) 10m AV Cables , Brackets & Hardware) PX-1016 Four (4) 10m HD AV Cable PX-1943 Four (4) 3m HD AV Cable PX-1941
0814831		Not Required, Camera Switcher	Camera Switcher A camera switcher is not required.
0653350		Guards, Vehicle Camera(s), Painted Smooth Aluminum	VEHICLE CAMERA GUARDS There will be five (5) smooth, tapered aluminum guard(s) fastened over the cab / body camera(s) located OVER EACH SIDE VIEW TILLER CAMERA, TWO (2) PER SIDE and front camera. The guards will be painted to match the surface they are attached to.
0890416		Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	ELECTRICAL POWER CONTROL SYSTEM The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible. Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership. Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA. Solid-State Control System

A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include a see through housing, a power indicator, a status indicator and circuit indicators located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices. The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.

For increased reliability and simplified use the control system modules will include the following attributes:

Green LED indicator light for module power

Red LED indicator light for network communication stability status

Control system self test at activation and continually throughout vehicle operation

No moving parts due to transistor logic

Software logic control for NFPA mandated safety interlocks and indicators

Integrated electrical system load management without additional components

Integrated electrical load sequencing system without additional components

Customized control software to the vehicle's configuration

Factory and field programmable to accommodate changes to the vehicle's operating parameters

To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:

Module circuit board will meet SAE J771 specifications

Operating temperature from -40 degrees Celsius to +70 degrees Celsius

Storage temperature from -40 degrees Celsius to +70 degrees Celsius

Vibration to 50g

IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter)

Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a white WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR

		for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself. EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.
0831839	Not Required, Prognostics, Electrical System	
0624253	Electrical System, Enforcer MUX	ELECTRICAL All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines: All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug). All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area. All electrical terminals in exposed areas will have silicon applied completely over the metal portion of the terminal. All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments. An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. The results of the tests will be recorded and provided to the purchaser at time of delivery.
0098841	Batteries, (6) Deka Grp 31, 1000 CCA each, Threaded Stud	BATTERY SYSTEM Six (6) 12 volt, Deka, Model 1231MF, maintenance free group 31 batteries that include the following features, each, will be provided: 1000 CCA (cold cranking amps) 185 reserve capacity High cycle Ref. CA of 1190 at 0 degrees Fahrenheit 185 reserve capacity Threaded studs
0591552	SP Battery System, Single Start, Cole-Hersee 75920, Lock Out	BATTERY SYSTEM A single starting system will be provided. An ignition switch and starter button will be located on the instrument panel. MASTER BATTERY SWITCH There will be a Cole-Hersee, Model 75920, master battery switch to activate the battery system provided inside the cab within easy reach of the driver. An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.
0002698	Battery Compartment, Saber/Enforcer	BATTERY COMPARTMENTS Batteries will be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab and bolted directly to the chassis frame. The battery boxes will have reinforced sides. The battery compartments will be constructed of 0.188" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The battery hold-downs will be of a non-corrosive material. All bolts and nuts will be stainless steel. Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound. Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound. JUMPER STUDS One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.

0816197	Charger, Sngl Sys, Kussmaul, LPC 80, 091-206-12-194C-WT-XX, 80 Amp	BATTERY CHARGER There will be a Kussmaul, Model LPC 80, part number 091-206-12-194C-WT-XX, 80 amp 12 volt DC battery charger with part number 091-194-provided. There will be a, Model 091-194X-IND-WT-XX, display indicating the state of charge provided. The color of the outside trim of this display will be red. The battery charger will be wired to the AC shoreline inlet through a splice box.
0818937	Location, Body, Charger, RS7	The battery charger will be located in RS7, right side body compartment, mounted on the right wall as high as practical.
0813919	Panel, Charger Display, Kussmaul, Included w/ Charger	REMOTE CONTROL PANEL - BATTERY CHARGER There will be a Kussmaul™, charger display included.
0814939	Location, Cab, Ind/Remote, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.
0811952	Not Required, Indicator/Remote Status	
0016857	Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus. The shoreline inlet(s) will include red weatherproof flip up cover(s). There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting. The shoreline(s) will be connected to the battery charger. There will be a mating connector body supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency
0026800	Shoreline Location	The shoreline receptacle will be located on the driver side of cab, above wheel.
0560808	Cover, Protection over Battery Charger, Smooth Aluminum	BATTERY CHARGER COVER A removable cover will be fabricated and installed over the battery charger for protection. The cover will be made out of smooth aluminum material.
0082225	Coating, UL-LX, Inside Battery Boxes, Black	UL-LX COATING FOR BATTERY BOXES The battery boxes on both sides of cab will have be sprayed with black UL-LX polyurethane/polyurea elastomer abrasive resistant material on all interior side walls and on the bottom surface.
0647728	Alternator, 430 amp, Delco Remy 55SI	ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.
0805985	SP Cover, Fuse Block, Polished S/S	COVER OVER FUSE BLOCK There will be one (1) polished stainless steel cover(s) provided over the fuse block(s) located in cab over Blue Sea Fuse Panel on DS rear facing .
0805986	SP Bracket, Power Point, Polished S/S	POWER POINT BRACKET There will be two (2) polished stainless steel bracket(s) provided for mounting the power point(s) located RS4, at tp of each outboard shelf track on left and right walls.
0833372	SP Cover, CORE Controller, Vented, Finish	COVER OVER MODULE & WIRING There will be a smooth aluminum painted to match cab interior color cover(s) provided over the Whelen® Core® controller located over Core C399 controller (behind officer seat). The cover will have knockouts for ventilation.

0092582	Load Manager/Sequencer, MUX	ELECTRONIC LOAD MANAGER An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system. For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed. The system will include the following features: System voltage monitoring. A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off. Sixteen available electronic load shedding levels. Priority levels can be set for individual outputs. High Idle to activate before any electric loads are shed and deactivate with the service brake. If enabled: "Load Man Hi-Idle On" will display on the information center. Hi-Idle will not activate until 30 seconds after engine start up. Individual switch "on" indicator to flash when the particular load has been shed. The information center indicates system voltage. The information center, where applicable, includes a "Load Manager" screen indicating the following: Load managed items list, with priority levels and item condition. Individual load managed item condition: ON = not shed SHED = shed SEQUENCER A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator. For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed. Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation. When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order. Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals: Cab Heater and Air Conditioning Crew Cab Heater (if applicable) Crew Cab Air Conditioning (if applicable) Exhaust Fans (if applicable) Third Evaporator (if applicable)
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	HEADLIGHTS There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille: the outside light on each side will contain a part number 055***1 low beam module the inside light on each side will contain a part number 055***1 high beam module the headlights to include chrome bezels The low beam lights will be activated when the headlight switch is on. The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.
0625953	Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Enf/Sab	DIRECTIONAL LIGHTS There will be two (2) Whelen 600 series, LED combination directional/marker lights provided. The lights will be located on the outside cab corners, next to the headlights. The color of the lenses will be clear.
0805325	Light, Directional, Wln M62T* LED, 15 Degree Angle Bracket, Additional	ADDITIONAL DIRECTIONAL LIGHT There will be two (2) Whelen®, Model M62T*, amber LED directional lights provided behind the tractor compartment, one per side. The lens color(s) to be clear. Each light will be surface mounted in a 15 degree angled bracket with chrome housing. The flash pattern of the directional lights will be Steady On (Arrow).
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	INTERMEDIATE LIGHT There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

0631711	SP	Lights, Clearance/Marker/ID, Front, Truck-Lite 33250Y LED 0.75" 5 Lts	CAB CLEARANCE/MARKER/ID LIGHTS There will be five (5) Truck-Lite, Model 33250Y 0.75" amber LED lights provided recessed into the header above the windshield in the following locations: Three (3) identification lights will be in the center no less than 6.00" apart and no more than 12.00" apart at the same height. One (1) clearance/marker light will be installed on the driver's side as close to the outside of the cab as practical. One (1) clearance/marker light will be installed on the passenger's side as close to the outside of the cab as practical.
0625210		Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	FRONT CAB SIDE CLEARANCE/MARKER LIGHTS There will be two (2) Truck-Lite®, Model 19036Y, amber LED lights installed to the outside of the chrome wrap around bezel, one (1) on each side of the cab. The lights will activate as additional directional lights with the corresponding directional circuit.
0534987		Lights, Clearance/Marker/ID, Rear, Truck-Lite 33050R LED 7Lts, Aerial	REAR CLEARANCE/MARKER/ID LIGHTING There will be three (3) Truck-Lite®, Model 33050R, LED lights used as identification lights recessed and located at the rear of the apparatus per the following: As close as practical to the vertical centerline Centers spaced not less than 6.00" or more than 12.00" apart Red in color All at the same height There will be two (2) Truck-Lite, Model 33050R, LED lights recessed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following: To indicate the overall width of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the rear All at the same height There will be two (2) Truck-Lite, Model 33050R, LED lights recessed on the side of the apparatus as marker lights as close to the rear as practical per the following: To indicate the overall length of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the side All at the same height There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground. There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground. Per FMVSS 108 and CMVSS 108 requirements.
0602938		Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	MARKER LIGHTS There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck. These lights will be activated with the running lights of the vehicle.
0804514		Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	REAR FMVSS LIGHTING The rear stop/tail and directional lighting included in the rear tail light housing will include the following: Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern. The lens color(s) to be clear.
0806466		Lights, Backup, Wln M62BU, LED, For Tail Lt Housing	There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.
0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt	LICENSE PLATE BRACKET One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus. One (1) white LED light with chrome housing will be provided to illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.
0556842		Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	LIGHTING BEZEL There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.

0815338	SP	Light, Brake/Tail, TecNiq T10-R*00-1 Brk/Tail, Surface	ADDITIONAL BRAKE/TAIL LIGHT There will be one (1) TecNiq part number T10-R*00-1, 1.28" high x 15.52" wide x 0.48" deep brake/tail light(s) with red LEDs surface mounted onto the rear face of the body, rear of body on narrow area above B1 door . The lens color(s) to be clear.
0589905		Alarm, Back-up Warning, PRECO 1040	BACK-UP ALARM A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.
0614309		Synchronize, Wln Warning Lights, 1st	SYNCHRONIZE WARNING LIGHTS The sync wires to the following eight (8) lights located Rear upper warning and lower rear warning on the apparatus will be connected together to maintain the flash patterns of the lights. The lights located right upper L31 and M6, Lower left M6 in 4 place bezel and left M4 at top rear tiller cab will remain on phase 1 or flash together. The lights located left upper L31 and M6, Lower right M6 in 4 place bezel and right M4 at top rear tiller cab will be changed to phase 2 or flash opposite the lights selected above.
0059809		Light, Marker, Weldon, 9186-1500 LED, Location	MARKER LIGHTS There will be one (1) pair of Weldon, Model: 9186-1500-10 or 9186-1500-20, LED marker lights installed on this apparatus, one (1) light each side per the quantity selected. These lights will be activated with the headlight switch. These lights will be located IN BRACKET ON SIDE OF TRAILER, CENTERED OVER THE REAR TILLER WHEELS, ONE EACH SIDE. (SIMILAR TO 34472). These lights will be installed into the rub rail or with metal flanges to protect them from most damage. Amber lights will be used except for the rear most light at the rear of the apparatus which will be red.
0634118	SP	Mounting, Flange for Marker Type Light, Treadplate, Pair	LIGHT MOUNTING There will be one (1) pair of light mounting bracket(s) provided on the apparatus. Each bracket will be made from aluminum treadplate material and provide an area for a light to be mounted. It will be completely enclosed so the light will not be damaged from the back. The mounting will mount on the CENTER OVER TRAILER AXLE, per SIGNED AD print
0893347	SP	Lights, Cornering, Tiller, TecNiq, E96-WS00-1, 4 lts Ft Sw	TILLER CORNERING LIGHTS There will be four (4) TecNiq®, part #E96-WS00-1, 4.5" high x 8.00" wide x 0.72" deep, 720 lumens, 12V DC white lights installed per the following: one (1) light will be installed on the left side to the front of the trailer axle one (1) light will be installed on the left side to the rear of the trailer axle one (1) light will be installed on the right side to the front of the trailer axle one (1) light will be installed on the right side to the rear of the trailer axle The lights will be activated by a momentary foot switched installed in the tiller cab located, on floor left side of steering column.
0648630		Lights, Perimeter Cab, TecNiq E10-WS00-1 LED 4Dr, Angled Brkt	CAB PERIMETER SCENE LIGHTS There will be four (4) TecNiq Model E10-WS00-1, 6.44" long x 1.38" high x 1.00" deep 12 volt DC weatherproof LED lights with a fabricated aluminum 45 degree brackets provided under the cab and crew cab access areas: One (1) for the driver's access. One (1) for the passenger's side front cab access door. One (1) for the passenger's side crew cab access door. One (1) for the driver's side crew cab access door. These lights will be activated automatically when the battery switch is on and the adjacent doors are opened or by the same means as the body perimeter lights.
0888060	SP	Lights, Perimeter Body, TecNiq E10-W000-1 4lts, Turntbl/Rr Stp, Tiller	BODY PERIMETER SCENE LIGHTS There will be four (4) TecNiq, Model E10-W000-1, 1.39" high x 6.39" long x 0.98" deep lights with white LEDs provided . The lights will be mounted in the following locations: One (1) light will be provided under the left side turntable access steps. One (1) light will be provided under the left side tiller cab access steps. One (1) light will be provided under the right side tiller cab access steps. One (1) light will be provided under the right side turntable access steps. The perimeter scene lights will be activated by a switch within reach of the driver is activated and the marker lights are activated.
0780173	SP	Lights, Perimeter, TecNiq E10-WS00-1 6.39" LED	ADDITIONAL PERIMETER LIGHTS There will be two (2) TecNiq, Model E10-WS00-1, 1.39" high x 6.39" long light(s) with white LEDs provided under Under LS3 and RS3, close to tiller axle. These additional lights will be controlled with the other body perimeter lights.

0896454	Enhanced Software for Perimeter Lts	ENHANCED SOFTWARE FOR PERIMETER LIGHTS All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected. The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.
0813525	Lights, Step, P25 LED, Tiller, Control, Trim Feature	STEP LIGHTS There will be a total of sixteen (16) white LED step lights provided for access to the tiller cab and turntable. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x trim shall be chrome 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The step lights will be activated when the headlight switch is on and the park brake is applied. The [Color, Trim]. All other steps on the apparatus will be illuminated per the current edition of applicable NFPA standards.
0693551	Lights, Tractor Scene, WIn M9LZC LED, pair	SCENE LIGHTS There will be one (1) pair of Whelen, Model M9LZC, LED scene lights installed on the rear exterior wall of the tractor cab with chrome flanges. The lights will be controlled by the aerial master switch.
0725783	Lights, Centering, Cab Roof, Tlr, Clpsbl, Attwood NV2002SS-7, Red/Grn LED	CENTERING LIGHT There will be an Attwood, Model NV2002SS-7, split red/green LED light installed with a 18.00" long collapsible mast, centered on the crew cab roof. The light will be used by the tillerman to center the tiller trailer to the chassis tractor. The light will be wired to the headlight switch.
0776357	Light, Visor, WIn, 12V P*H2* Pioneer, Cnt Feature, 1st	12 VOLT LIGHTING There will be two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light(s) with a combination of flood and spot optics provided on the front visor, one (1) on the driver's side and one (1) on the passenger's side with 8 degree outward bracket. The housing(s) painted parts of this light assembly to be white. The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel. These light(s) may be load managed when the parking brake is applied.
0768059	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 2nd	12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, LS upper rear crew cab, as high as possible. The surface mount housing(s) will be provided with a chrome cover. The light(s) will be activated scene lights to be controlled by the same control that has been selected for the driver's side flood light(s). The light(s) may be load managed when the parking brake is applied.
0768061	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 1st	12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, RS upper rear crew cab, as high as possible. The surface mount housing(s) will be provided with a chrome cover. The light(s) will be activated by the same control that has been selected for the passenger's side flood light(s). The light(s) may be load managed when the parking brake is applied.
0763610	Lights, WIn, PCPSM2*, Pioneer, 12 VDC, 1st	12 VOLT LIGHTING There will be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light (s) installed on the body of the apparatus located, rear tiller cab, below the traffic advisor. The light(s) will include housing(s) with a chrome cover. The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel, by a switch in the tiller cab and by a switch in a stainless steel cup located on the driver's side at the rear of the apparatus no more than 72.00" from the ground. The light(s) may be load managed when the parking brake is applied.
0766291	Cover/Step, Over Light, Horizontal Mt	COVER/STEP OVER LIGHT ONTO A HORIZONTAL SURFACE There will be four (4) housings fabricated from aluminum treadplate installed on the apparatus over scene lights above LS4, LS7, RS4, RS7 for the lights. The cover will be removable for light adjustment and wire protection. The cover will be sized accordingly so to be used as a stepping surface.

0748793	Lights, WIn, S44M** 44" 12VDC, RS Body	12 VOLT LIGHTING There will be two (2) Whelen® Model S44M**, 19,440 lumens 44.00" 12 volt DC light(s) with white LEDs provided on the right side of the body located, RS catwalk, at each corner over RS4 and RS7. The painted parts of this light assembly to be white. The light(s) will include the following: 10 scene light modules with white LEDs Three (3) amber LEDs as marker lights Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs. The lights will be activated per the following: The amber marker lights not activated. The scene LEDs will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel, by a switch in the tiller cab and by a switch in a stainless steel cup located on the passenger's side at the rear of the apparatus no more than 72.00" from the ground. There will be a switch in the cab on the switch panel to control the flashing warning LED modules when selected. The light(s) may be load managed when the parking brake is applied.
0748795	Lights, WIn, S44M** 44" 12VDC, LS Body	12 VOLT LIGHTING There will be two (2) Whelen® Model S44M**, 19,440 lumens 44.00" 12 volt DC light(s) with white LEDs provided on the left side of the body located, LS catwalk, at each corner over LS4 and LS7. The painted parts of this light assembly to be white. The light(s) will include the following: 10 scene light modules with white LEDs Three (3) amber LEDs as marker lights Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs. The lights will be activated per the following: The amber marker lights not activated. The scene LEDs will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel, by a switch in the tiller cab and by a switch in a stainless steel cup located on the driver's side at the rear of the apparatus no more than 72.00" from the ground. There will be a switch in the cab on the switch panel to control the flashing warning LED modules when selected. The light(s) may be load managed when the parking brake is applied.
0645677	Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	
0750472	SP Lights, Walk Surf, 4-P25 LED, Outboard Walkway Area, Mounted atop Catwalk	WALKING SURFACE LIGHT There will be four (4) 12 volt DC, P25 LED lights installed on the walkway area to illuminate the surface of the walkway area. These lights will be evenly spaced and located on the outside edge of the designated walkway area. These lights will be activated with all other rear body step lights.
0090655	Aerial, Tiller, No Pump, Alum Body	
0554269	Body Skirt Height, 18"	
0013481	Not Required, Hose Bed Capacity	
0013534	Not Required, Running Boards	
0825621	Turntable Steps-Morton Cass, LS/RS, Tiller Single Axle	TURNTABLE STEPS Steps to access the turntable from the left and right side will be provided just behind the reservoir compartment. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface. The steps will be welded in place with the stepping area made of Morton Tread-Grip® channel. The stepwell will be lined with bright aluminum treadplate to act as scuffplates. A knurled aluminum handrail handrail will be provided on the forward side of the access steps.
0690023	Wall, Rear, Smooth Aluminum	SMOOTH ALUMINUM REAR WALL The rear wall will be smooth aluminum.
0058049	Tow Eyes, Stainless Steel, (2), Aerial	TOW EYES Two (2) rear stainless steel tow eyes will be located at the rear of the apparatus and will be mounted directly to the torque box. The inner and outer edges of the tow eyes will be radiused.

0090670	Construction, Compt, Alum, Tiller	COMPARTMENTATION Body and compartments will be fabricated of .125", 5052-H32 aluminum. Side compartments will be an integral assembly with the rear fenders. Circular fender liners will be provided for prevention of rust pockets and ease of maintenance. Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The compartment door opening will be framed by flanging the edges in 1.75" and bending out again .75" to form an angle. Drip protection will be provided above the doors by means of bright aluminum extrusion or formed bright aluminum treadplate. The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded. Side compartment covers will be separate from the compartment tops. All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury. A support system will be used which will incorporate a floating substructure by using Neoprene Elastomer isolators to allow the body to remain rigid while the chassis goes through its natural flex. The isolators will have a broad range of proven viability in vehicular applications, be of a fail safe design, and allow for all necessary movement in three (3) transitional and rotational modes. This will result in a 500 lb equipment rating for each lower compartment of the body. The compartmentation will include a 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework will be mounted to the body above these support assemblies connected to the support assemblies with isolators. There will be one (1) support assembly mounted to each chassis frame rail. AGGRESSIVE WALKING SURFACE All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards. LOUVERS All body compartments will have a minimum of one (1) set of louvers stamped into a wall to provide the proper airflow inside the compartment and to prevent water from dripping into the compartment. These louvers will be formed into the metal and not added to the compartment as a separate plate.
0646408	SP Compt, Single Tractor Reservoir, Double Door, F/D LS, 16" Deep RS, 48" WB	TRACTOR RESERVOIR COMPARTMENT A compartment will be provided ahead of the tractor fifth wheel. The compartment on the left side will be approximately 45.00" wide x 37.75" high x 8.00" deep in the forward 10.63" of width, with the remainder of the compartment being 24.00" deep. The door opening will be 40.50" wide x 31.25" high. The compartment on the right side will be approximately 45.00" wide x 36.75" high x 8.00" deep in the forward 10.63" of width, with the remainder of the compartment being 16.00" deep. The door opening will be 40.50" wide x 30.25" high. The floor of this compartment will be raised 1.00" to allow for proper clearance from exhaust components. The transverse section will be approximately 34.38" wide x 15.50" high. There will be two (2) LED strip lights mounted on the forward wall to illuminate this compartment. The compartment will be fabricated out of smooth aluminum painted job color. Bright aluminum treadplate will be provided on the top of the compartment. The compartment will be furnished with double lap doors with a D handle latch and positive door hold open device.
0634723	Compt, F/H, Trans Lap, Front Shortened, 79.00" Wide, LS Front, Tiller	LEFT SIDE COMPARTMENTATION Left side compartmentation will consist of two (2) compartments that are full-height. The forward compartment will be approximately 34.13" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 25.62" wide x 50.87" high. This compartment will have a single lap door. The rear compartment will be approximately 44.50" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. This compartment will have a double lap door. The upper 38.75" of each compartment will be transverse to the right side front compartmentation.
0040132	Compt, F/H, Trans Front, Lap, LS Center, Tiller	Two (2) compartments will be provided in the center body section on the left side. Each compartment will be full-height. The forward compartment will be approximately 47.13" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. The upper 38.75" of the forward compartment will be transverse to the right side front compartmentation. The rear compartment will be approximately 44.50" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. Both compartments will have lap doors.

0818349	SP	Compt, F/H F/D Front Lap, Center Lift, F/H Rear Lap, 4" Raised Flr, Rear Blister	Three (3) compartments will be provided in the rear body section on the left side. The forward compartment will be approximately 69.00" wide x 49.63" high x 24.50" deep in the lower 24.13" of the compartment with the remaining upper portion being approximately 22.50" deep. The clear door opening will be approximately 62.00" wide x 44.87" high. This compartment will be located ahead of the rear wheels and will have a double door. The compartment directly above the rear wheels will be approximately 59.88" wide x 19.63" high x 13.50" deep with a clear door opening of approximately 53.75" wide x 13.75" high. This compartment will be provided with a lift-up door. This lift-up door will be provided with a cylinder that allows it to open approximately 120 degrees. The rearward compartment will be approximately 49.00" wide x 45.63" high x 12.00" deep with a clear door opening of approximately 42.00" wide x 40.87" high. There will be a recessed blister area in the lower, rear area of this compartment that is approximately 30.00" wide x 9.75" high x 5.00" deep. The floor of this compartment will be raised approximately 4.00" from standard to increase the rear angle of departure. This compartment will be located behind the rear wheels and will have a double door.
0634719		Compt, F/H, Trans Lap, Front Shortened, 79.00" Wide, RS Front, Tiller	RIGHT SIDE COMPARTMENTATION Right side compartmentation will consist of two (2) compartments that are full-height. The forward compartment will be approximately 34.13" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 25.62" wide x 50.87" high. This compartment will have a single lap door. The rear compartment will be approximately 44.50" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. This compartment will have a double lap door. The upper 38.75" of each compartment will be transverse to the left side front compartmentation
0040145		Compt, F/H, Trans Front, Lap, RS Center, Tiller	Two (2) compartments will be provided in the center body section on the right side. Each compartment will be full-height. The forward compartment will be approximately 47.13" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. The upper 38.75" of the forward compartment will be transverse to the left side front compartmentation. The rear compartment will be approximately 44.50" wide x 55.63" high x 24.50" deep with a clear door opening of approximately 37.50" wide x 50.87" high. Both compartments will have lap doors.
0818353	SP	Compt, F/H F/D Front Lap, Center Lift, F/H Rear Lap, 4" Raised Floor	Three (3) compartments will be provided in the rear body section on the right side. The forward compartment will be approximately 69.00" wide x 49.63" high x 24.50" deep in the lower 24.13" of the compartment with the remaining upper portion being approximately 22.50" deep. The clear door opening will be approximately 62.00" wide x 44.87" high. This compartment will be located ahead of the rear wheels and will have a double door. The compartment directly above the rear wheels will be approximately 59.88" wide x 19.63" high x 13.50" deep with a clear door opening of approximately 53.75" wide x 13.75" high. This compartment will be provided with a lift-up door. This lift-up door will be provided with a cylinder that allows it to open approximately 120 degrees. The rearward compartment will be approximately 49.00" wide x 45.63" high x 12.00" deep with a clear door opening of approximately 42.00" wide x 40.87" high. The floor of this compartment will be raised approximately 4.00" from standard to increase the rear angle of departure. This compartment will be located behind the rear wheels and will have a double door.
0666828		Doors, Lap with "D" Handle, Aluminum, Side Compartments	SIDE COMPARTMENT DOORS All hinged compartment doors will be lap style with double panel construction and fabricated of .09" 5052H32 aluminum. Doors will be a minimum of 1.50" thick. To provide additional door strength, a "C" section reinforcement will be installed between the outer and interior panels. Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment. All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .25", that is bolted or screwed on with stainless steel fasteners. A dielectric substance will be applied to each hinge fastener. All door lock mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area. Doors will be latched with recessed, polished stainless steel "D" ring handles and Eberhard 106 locks. To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.
0544873		Bumper, Rear, Rub Rail, Aerial	REAR BUMPER An aluminum rub rail will be provided at the rear of the unit. It will extend the full width of the compartments.
0641257	SP	Scuffplate, Alum 4-Way, Lower Rear of Tractor Reservoir Compt, Facing Fifth Wheel	SCUFFPLATES The lower rear portion of the tractor reservoir compartment that faces the fifth wheel will be covered with bright aluminum treadplate scuffplates. These scuffplates will be fastened with self-tapping screws.

0003915		Keyed Locks for Latches, Lap Doors (#751 Lock to Match Cab)	KEYED LOCK(S) A keyed lock will be furnished for 17 compartment doors. The compartmentation, to have a keyed lock, will be LS1-LS8, RS1-RS8, B1.
0731558		Pull Strap for Liftup Doors	LIFTUP DOOR PULL STRAPS There will be one (1) compartment door provided with pull straps. The pull straps will be 12.00" long and black in color. The straps will be installed directly to the inside of the liftup door. Hook and loop fabric will be mounted to the inside of the rollup door and on the pull straps to allow the strap to be retained inside the compartment while being closed. The liftup door compartments to have these straps will be Cord Reel compt.
0021603		Scuffplate, Brushed S/S Bottom of Door Frame	DOOR FRAME SCUFFPLATE Eighteen (18) scuffplates will be provided for the lower door frame(s) LS1-LS8, RS1-RS8, B1 and B2. Each scuffplate will be brushed stainless steel with a .38" lip down.
0819641	SP	Scuffplate, Interior Door Pan, Black Poly, .25" Thick, 4.00" High	SCUFFPLATE ON INTERIOR OF COMPARTMENT DOOR(S) There will be a total of two (2) compartment doors that includes a 0.25" thick black poly scuffplate to cover a portion of the inside panel of each door pan. Each scuffplate will be approximately 4.00" high x the full width of the door. Scuffplate will be located top and bottom of each B1 lap door.
0689549		Lights, Compt, Pierce LED, Dual Light Strips, Each Side of Door	COMPARTMENT LIGHTING There will be eighteen (18) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in compartment(s): LS1-LS8, RS1-RS8, B1 and B2. Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model 79384, light. Each light will have a number 1076 one filament, two wire bulb. Opening the compartment door will automatically turn the compartment lighting on.
0691876		Brackets/Clamps, For Strip Lighting In Compartments, IPO Velcro	BRACKETS/CLAMPS, COMPARTMENT LIGHTS All LED light strips, in all locations will be mounted with brackets, part #64-0766-0063, in place of the standard Velcro®.
0687135		Shelf Tracks, Unpainted	MOUNTING TRACKS There will be 12 sets of tracks for mounting shelf(s) in LS1, LS3, LS4, LS5, LS6, LS7, RS1, RS3, RS4, RS5, RS6 and RS7. These tracks will be installed vertically to support the adjustable shelf (s). The tracks will be unpainted with a natural finish.
0625835		Shelves, Adjustable, 500 lb Capacity, Full Width/Depth, Special Side Height	ADJUSTABLE SHELVES There will be one (1) shelf with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum with a brushed finish. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by .12" thick stamped plated brackets and bolts. The location will be RS4 shelf at frame blister with lip on three sides, front lip bent down. (No turtle tile for this shelf.). The side height of the shelf/shelves will be as follows: Front: 2.00" down-turned flange Rear: 2.00" high Left & Right Sides: 2.00" high
0687079		Shelves, Adjustable, 500 lb Capacity, Full Width/Depth, Brushed Aluminum	ADJUSTABLE SHELF There will be seven (7) shelves provided. Each shelf will be constructed of 0.188" aluminum with 2.00" high sides. Each shelf will as wide and as deep as the compartment space will allow. Each shelf will have a brushed finish. Each shelf will have a load capacity of 500 lb. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by 0.12" thick stamped plated brackets and bolts. The location will be (1) RS1 above SCBA, (1) RS3 top of bottle storage,(1) RS4 32" off floor, (1) LS1 above SCBA, (1) LS3 Centered, (2) in LS4.

0825242	SP	Tray,1000 lb,Slide-Out,2-Way,Utility,Adj Height,3" Sides,Full Trans,Brush Flr	TWO (2) WAY SLIDE-OUT UTILITY TRAY There will be three (3) slide-out trays provided. Each tray will be rated for up to 1,000 lb in the extended position. The tray(s) will be constructed of .19" thick brushed aluminum for the tray bottom and special aluminum extrusions for the tray sides, ends and tracks. The corners will be welded. The tray will have 3.00" high sides, will span the full depth of the transverse compartment and will be as wide as possible for the compartment. The tray will be supported with a minimum of twelve (12) ball bearing rollers. The tray will slide out two thirds (2/3) of its length to either side of the apparatus. Automatic locks will be provided for both the in and out positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand. The vertical location of the tray within the compartment will be adjustable. The tray(s) will be located (1) LS6/RS6, (2) LS7/RS7.
0834111	SP	Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, 42" Deep, Brushed Alum	SLIDE-OUT/TILT-DOWN TRAY There will be two (2) slide-out trays provided. The bottom of each tray will constructed of 0.188" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. Each tray will be designed for a 42.00" deep compartment. A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation. Rubber padded stops will be provided for the tray in the extended position. The capacity rating of the tray will be a minimum of 215 lb in the extended position. The vertical position of the tray within the compartment will be adjustable. The tray(s) will be located (1) RS6 upper and (1) LS6 upper.
0763774	SP	Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Special Depth, Finish Feature	SLIDE-OUT/TILT-DOWN TRAY There will be one (1) slide-out tray provided. The bottom of each tray will constructed of 0.188" thick aluminum with a brushed finish while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. The depth of the tray will be as deep as possible from left side edge of frame to slide out tilt tray in RS5. A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation. Rubber padded stops will be provided for the tray in the extended positions. The capacity rating of the tray will be a minimum of 215 lb in the extended position. The vertical position of the tray within the compartment will be adjustable. The tray(s) will be located LS5 over transverse area .
0667235		Cable, Single Hand Operation, Tilt/Slide Out, Utility Trays	SINGLE HANDED CABLE LATCH A cable will be provided to tie together the two (2) spring loaded locks that are provided as standard at the front of a slide-out/tilt tray in order to provide single hand operation of the tray. The single hand operation cable will be provided on a total of four (4) slide-out trays located LS5, LS6, RS5, RS6.
0670491		Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Brushed Alum	SLIDE-OUT/TILT-DOWN TRAY There will be one (1) slide-out tray provided. The bottom of each tray will constructed of 0.188" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation. Rubber padded stops will be provided for the tray in the extended position. The capacity rating of the tray will be a minimum of 215 lb in the extended position. The vertical position of the tray within the compartment will be adjustable. The tray(s) will be located (1) RS5 upper (tray will align with S/O tray in LS5).
0652268		Tray, 500 lb, Slide-out, 1-Way, Utility, Adj Height, 3" Sides, 3/4 Trans	THREE QUARTER DEPTH SLIDE-OUT UTILITY TRAY There will be one (1) slide-out tray provided for use in the transverse side body compartment(s). Each tray will be a utility style tray that is rated for up to 500 lb in the extended position. The bottom of each tray will be constructed of 0.19" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends and tracks. The corners will be welded. Each tray will be with a dual action finish. Each tray will have 3.00" high sides, will be three quarters (3/4) the depth of the transverse compartment and will be as wide as possible for the designated mounting location. Each tray will be supported with a minimum of six (6) ball bearing rollers. Each tray will slide out two thirds (2/3) of its length in one (1) direction only. Automatic locks will be provided for both the in and out positions. The trip mechanism for the locks will be located at the front of each tray for ease of use with a gloved hand. The vertical location of each tray within the compartment will be adjustable. The tray(s) will be located (1) RS5 just above floor.

0725647		Cabinet, Drawer Assembly, CTECH, Two Drawers, Up To 36" Wide, 24" Deep	DRAWER ASSEMBLY A slide-out drawer assembly will be installed LS7. The clear dimensions of the first drawer starting at the top will be 4.00" with a face plate that is 5.00" high x 21.00" deep. The clear dimensions of the second drawer will be 6.75" with a face plate that is 7.00" high x 21.00" deep. Each drawer will be the same width and not exceed 36.00". The drawers will have a capacity of 250 pounds. The drawers will be mounted in a cabinet housing constructed of light gray powder coated aluminum with anodized aluminum frames. The housing will be 24.00" deep, and completely enclose the drawer. A full-length aluminum extruded rail will be provided at the top edge of each drawer. This rail will act as the latching mechanism as well as the handle for each drawer. There will be a total of one (1) provided.
0650491		DuraSurf, Compartment Floor	COMPARTMENT FLOOR SCUFFPLATE DuraSurf will be provided on the floor of one (1) compartment(s). The B2 compartment(s) will be lined.
0827924	SP	Box,"L" Shape,T/P,Lift Up/Reinf Cover,Slam Latch,Top of Reserv Cpt,Reinf,Till SA	STORAGE/HOSE BOX One (1) storage box constructed of bright aluminum treadplate, will be installed above the hydraulic reservoir compartment on the tiller tractor. The storage box will be divided into two sections to form an "L" shape. The front section will be directly above the hydraulic reservoir and be approximately half the depth as the rear section. The rear section will be directly rearward of the hydraulic reservoir with a storage capacity for 130' of 3.00" double jacketed hose. The overall height of this rear section will be 24.00". A structural reinforcing channel will be added on the inside of the box, on the rear wall. There will be a lift-up cover with a D-ring slam latch on the top and hinge on the forward (cab side) of the box. The hinge side of the box will be reinforced. The cover will be reinforced and have a lipped edge with a rubber seal for weather resistance. Gas struts will be provided to hold the cover open.
0799343		Bracket, SCBA, Zico SC-50-H-6-SF, with PHS	AIR BOTTLE HOLDERS There will be five (5) Ziamatic, Model SC-50-H-6-SF, SCBA holder(s) with PHS (positive holding strap) provided. The bracket(s) will be located LS1-1" above tile & 12" cntr brkt to right wall, RS1-1" above tile & 12" cntr brkt to RIGHT wall, RS1-1" above tile & 12" cntr brkt to LEFT wall, LS8-1" above tile & 12" cntr brkt to left xverse wall, RS8-1" above tile & 12" cntr brkt to right xverse wall.
0693928		Cable Release, Transverse Roll-out Tray, IAT Std Latches	CABLE RELEASE A cable release will be provided to allow one handed operation of the lock for slide out tray(s). A cable will be connect to the lock for operation of the lock release, it will release the lock and release the tray. Cable will be plastic coated. A total of six (6) will be provided slide out trays in LS6/RS6, LS7/RS7.
0062168		Cable Release, Tilt Tray, IAT Std Latches	CABLE RELEASE A cable release will be provided to allow one handed operation of the latches for slide out tilt trays. A cable will connect the two pull knobs so when you pull the cable from the center, it will release the dual knobs and release the tray. Cable will be plastic coated. A total of four (4) will be provided all slide out tilt trays.
0637289	SP	Compt, At Rear Between Tow Eyes, Divider, Alum Sngl Pan Dr, Lock D Ring,Tiller	COMPARTMENT BETWEEN TOW EYES A compartment will be supplied at the rear of the unit, above the rear bumper. It will be 8.50" high x 25.75" wide x 27.00" deep. The compartment will have two fixed dividers equally spaced to create three equal storage areas. The compartment will have a single-pan smooth aluminum drop-down door with a D-ring locking 751 latch.
0004002		Matting, .13" Rubber in Compartment	COMPARTMENT MATTING Black rubber matting will be provided in four (4) compartments. The locations are inside both CTech drawers, transverse floor area of LS/RS5 and LS/RS8. The matting will be .13" thick with corrugated top ribs.
0028026		Matting, Turtle Tile, Compartment Shelving Only	MATTING, COMPARTMENT SHELVING Turtle Tile compartment matting will be provided in 16 shelves. The locations are, all shelving except RS4 lower with inverted lip. The color of the Turtle Tile will be black.
0659383		Matting, Turtle Tile w/Ramp, Compartment Floors	MATTING, COMPARTMENT FLOOR Turtle Tile compartment matting will be provided in 12 compartments on the compartment floor. The locations are, LS1, LS2, LS4, LS5, LS8 lower floor, RS1, RS2, RS4, RS5, RS6, RS7, RS8 lower floor. The Turtle Tile will be black and the leading edge of the matting will include the beveled edge. The beveled edge will be yellow.

0796216		Floor Extension, Compartment, 1.00" Downturned Lip	FLOOR EXTENSION There will be a compartment floor extension provided. The floor extension will extend from the area over the frame rails to within an inch of the compartment door. The floor extension will have a 1.00" vertical downturned lip and no return flange. A total of one (1) will be provided and located RS7.
0811706	SP	Floor Extension, Compartment, 1.00" Downturned Lip, Notched	FLOOR EXTENSION There will be a compartment floor extension provided. The floor extension will extend from the area over the frame rails to within an inch of the compartment door. The floor extension will have a 1.00" vertical downturned lip and no return flange. The lip will be notched accordingly to accommodate a drawer assembly located directly below the floor extension. A total of one (1) will be provided and located LS7.
0636670		Tube, Storage, Auminum	STORAGE TUBES An aluminum storage tube will be provided for equipment storage at Top of LS7 with 3/4" spacing between the tubes . The tube will be for storage of BROOM and SQUEEGEE HANDLES WITH STOP ON REAR OF EACH TUBE. Each tube will be 1.5" ID diameter tubes 54" long deep and capped on the end. A total of six (6) will be provided.
0004016		Rub Rail, Aluminum Extruded, Side of Body	RUB RAIL Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail. Trim will be 2.12" high with 1.38" flanges turned outward for rigidity. The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.
0510626		Fender Crowns, Rear, S/S, Wider Than Standard	BODY FENDER CROWNS Stainless steel fender crowns will be provided around the rear wheel openings. These fender crowns must be wide enough to prevent splashing onto the body from the specified tires. A rubber welting will be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.
0558496		Handrails, Access to Tiller Cab, U-Shaped, Knurled Aluminum, Front Each Side	TILLER CAB HANDRAILS A U-shaped handrail will be installed on each side of the truck on the forward side of the tiller cab access steps. The handrail will extend upward from the existing tiller cab handrail and form a U-shape approximately 10.00" high above the top of the body. The standard handrail will be provided on the rearward side of the steps. Handrails will be 1.25" diameter anodized aluminum extrusion, with a knurled design, to provide a positive gripping surface. Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces. Drain holes will be provided in the bottom of all vertically mounted handrails.
0024210		Storage Bin, Air Bottle, 7.50" Square	AIR BOTTLE STORAGE BIN A storage bin will be provided for storage of 24 air bottles. This storage bin will be installed in RS3. Each separate air bottle storage compartment will be 7.50" square x 23.00" deep. The storage bin will be formed out of aluminum and the flooring lined with Dura-surf.
0891034	SP	Hopper, Oil Dry, Inside Compartment, Special Config, w/Push/Pull Handle	OIL DRY HOPPER There will be an oil dry hopper installed in the LS5 compartment and configured Oil hopper dimensions 20" height X 14.5" wide X 23" depth. (Height does not include the lid on top of the box). A door will be provided on the top of the oil dry bin to allow refilling of the bin. The bin will be sized for storage of no specific capacity of clay-based oil dry absorbent material. The hopper will have a hand valve on the bottom to control the release of the material. The absorbent material will be discharged through a PVC tube through the floor of this compartment allowing a bucket to be placed under the truck and filled. There will be a push/pull handle extended out from under the truck to the side body to allow the blast gate to be operated more easily. This handle will be labeled "oil dry blast gate" on a red label white lettering. The oil dry hopper will be DA finished.

0811646	SP	Ladder, 35' Alaco, WX 021996 2-Sec, 22" Wide, Non-NFPA, Prov by Dealer, Aerial	EXTENSION LADDER PROVIDED BY DEALER There will be two (2) 35', two (2) section, 22.00" outside width, Alaco wood extension ladder, Model WX 021996 provided and installed by the dealer. If using an existing ladder, the following dimensions, including any bolts, pulleys, ropes, butt spurs, etc, are required: stored overall length overall width banking thickness The dimensions are N/A. If dimensions aren't provided, the mounting provided will accommodate ladders sized per Alaco standard dimensions. This ladder is non compliant to NFPA 1931, Chapter 4.4.3.1, " <i>Standard on Design of and Design Verification Tests for Fire Department Ground Ladders</i> ". Per Fire Department specification request of this ladder, the apparatus will be non compliant to the current edition of applicable NFPA standards at time of contract execution.
0084222		Not Required, Extension Ladder	
0811648	SP	Ladder, Alaco 2304-16, Roof, Non-NFPA, Provided by Dealer	ROOF LADDER PROVIDED BY DEALER There will be one (1) 16' wood Alaco Series 2304-16 roof ladder(s) provided by the dealer. The outside width of the ladder will be 16.00" wide. If using an existing ladder, the following dimensions, including any bolts, pulleys, ropes, butt spurs, etc, are required: stored overall length overall width banking thickness The dimensions are N/A. If dimensions aren't provided, the mounting provided will accommodate ladders sized per Alaco standard dimensions. This ladder is non compliant to NFPA 1931, Chapter 4.4.3.1, " <i>Standard on Design of and Design Verification Tests for Fire Department Ground Ladders</i> ". Per Fire Department specification request of this ladder, the apparatus will be non compliant to the current edition of applicable NFPA standards at time of contract execution.
0645444		Ladder, 12' Duo-Safety 775-DR Roof	ADDED ROOF LADDER There will be one (1) 12' aluminum roof ladder, Series 775-DR provided.
0811653	SP	Ladder, 20' Alaco 2302-20 Wall, Provided by Dealer	ADDED ROOF LADDER PROVIDED BY DEALER There will be one (1) 16' wood Alaco Series 2302-20 wall ladder provided and installed by the dealer. The outside width of the ladder will be 22.00" wide. If using an existing ladder, the following dimensions, including any bolts, pulleys, ropes, butt spurs, etc, are required: stored overall length overall width banking thickness The dimensions are N/A. If dimensions aren't provided, the mounting provided will accommodate ladders sized per Alaco standard dimensions.
0818998	SP	Ladder, 16' Alaco 2302-16 Wall, Provided by Dealer	ADDED WALL LADDER PROVIDED BY DEALER There will be one (1) 16' wood Alaco Series 2302-16 wall ladder provided and installed by the dealer. The outside width of the ladder will be 22.00" wide. If using an existing ladder, the following dimensions, including any bolts, pulleys, ropes, butt spurs, etc, are required: stored overall length overall width banking thickness The dimensions are N/A. If dimensions aren't provided, the mounting provided will accommodate ladders sized per Alaco standard dimensions.
0024233		Not Required, Attic Extension Ladder	
0811654		Ladder, 10' Alaco 2305-10, Provided by Dealer, Aerial NFPA 2016 Class	AERIAL FOLDING LADDER PROVIDED BY DEALER NFPA 1901, 2016 edition, section 8.8.1.3 requires a minimum of one folding ladder. The folding ladder is not on the apparatus as manufactured. There will be one (1) 10' wood Alaco 2305-10 folding ladder(s) provided by the dealer. The ladder will be located ladder storage. If using an existing ladder, the following dimensions, including any bolts, pulleys, ropes, butt spurs, etc, are required: stored overall length overall width banking thickness The dimensions are N/A If dimensions aren't provided, the mounting provided will accommodate ladders sized per Alaco standard dimensions.

0751507	SP	Ladder Storage, Vertical Hinged Lap Drs, Free Door Lock, Grabber, Smooth Alum, Tiller	GROUND LADDER STORAGE The ground ladders will be removable from the center rear of the apparatus. The ladders will be individually stored in stainless steel slides and will be arranged in such a manner that any one (1) ladder can be removed without having to move or remove any other ladder. Black Dura-Surf friction reducing material will be added to the stainless steel slides, on the bottom horizontal surfaces, of the ladder storage rack. Vertically hinged double lap doors will be provided at the rear to close the ladder compartment. Doors will be of double pan aluminum construction. Single sheet aluminum doors will not be considered. The lock door will be latched with Eberhard latches with D-ring handles. The free floating door will be provided with a locking mechanism on the top of the door to allow it to be secured to the door frame. There will be no stay arm device provided on either door. Door grabbers will be provided on the outside of each door and the rear body surface to hold each door open.
0827480	SP	Lights, Torque Box Ladder Storage, T/L 44042C 2lts, Amdor AY-9220-020 1 Lt	LADDER STORAGE LIGHTING There will be two (2) Truck Lite, Model 44042C, 4.00" white LED lights with Model 40700 grommets used to illuminate the torque box ladder storage compartment. One (1) each side will be located on the side wall of the torque box near the ladder storage entry area. There will also be one (1) Amdor, Model AY9220-020, white 12 volt DC LED strip light mounted horizontally above the compartment door opening to illuminate the torque box ladder storage compartment. The lights will be activated when the ladder storage compartment door is opened.
0504101		Ladder, Little Giant, Super Duty Type 1AA - Model 17, 10402	ADDITIONAL FOLDING LADDER One (1) 17' aluminum Super Duty Type 1AA Little Giant folding ladder will be provided. The stored dimensions will be 55.00" high x 25.00" wide x 8.00" deep. The weight will be 45lb. Capacity of 375lb. The ladder will be located in diamond plate storage box on top of rear body.
0821462	SP	Poly Hinge Guard, White, Torque Box Ladder Storage, Extended, Full Width	LADDER RETAINER HINGE GUARD There will be a white polyethylene high density strip provided at the rear ladder retainer hinge to protect and allow easy access for the ground ladders. The strip will extend from the very rear of the ladders to the very edge of the inside ladder storage door(s) edge. It will be full width of the ladder storage area, even if ladders aren't the full width. The strip will be attached with countersunk screws. The outboard (rear) edge will be ramped down in place of squared off.
0521794		Deflector Rods, Ground Ladder Storage, PAL/PAP	LADDER RACK DEFLECTOR RODS Deflector rods will be installed on all four sides at the ends of each ladder slot to prevent the ladders from scraping on the ends of the openings. Deflector rods will also be installed on the inboard edge of the vertical ladder rack framing.
0818874	SP	Backboard Storage, Rack, Specify Inside Dims, Access Cutouts, Inside Trans Comp	BACKBOARD STORAGE A bolt-in storage rack will be located in the LS7 transverse compartment, mounted horizontally. This storage rack will provide storage for one (1) backboard sized 76.00" long x 18.00" wide x 2.00" high and will be installed from RS7 just inside door across transverse area centered under 2 way tray. The inside dimensions of the rack will be 77.00" x 19.00" x 2.50. Access will be provided from the right side. A strap will be provided to prevent side to side movement of the backboards. The storage rack will match the compartment interior. A half circle cutout will be provided on the access end of the rack to allow for easier access in removing the backboard(s).
0889410	SP	Compt, Above Rr Comp, T/P, Lift Past 90 Drs, Stokes & Ladder, Ea Side Acc, Till	COMPARTMENT FOR STOKES & LADDER STORAGE A treadplate compartment assembly will be provided for the storage of a stokes basket and a ladder. The box will be divided in the center to provide two (2) separate storage areas. The compartment will be located on top of the rear body, forward of the boom support. The overall length of the box will be the width of the top of the rear body. The front area will store a stokes basket that is 83.50" long x 23.00" wide x 7.25" high. The stokes will be centered in the box (as applicable). The rear area will store a Little Giant Defender Model 17. The ladder will be stored toward the left side of the apparatus. There will be a vertical partition in this area to allow miscellaneous storage opposite of the ladder, if applicable (depending on ladder length). There will be two (2) lift up aluminum treadplate doors on each side with a D-handle latch on each door and pneumatic cylinders that allow the doors to lift up past 90 degrees. The compartment will be reinforced so it can withstand the weight of a person.
0816914		Pike Pole, 12', Provided by Fire Department, NFPA/ULC 2024	12' PIKE POLE PROVIDED BY FIRE DEPARTMENT The pike poles are not on the apparatus as manufactured. The fire department will provide and mount the pike poles. There will be two (2) 12' pike pole(s) provided. The pike pole(s) will be a Nupla 12' pike pole.
0816920		Pike Pole, Provided by Fire Department, NFPA/ULC 2024	PIKE POLE PROVIDED BY FIRE DEPARTMENT The pike poles are not on the apparatus as manufactured. The fire department will provide and mount the pike poles. There will be two (2) pike pole(s) provided. The pike pole(s) will be a Nupla 8' pike pole.

0552649		Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-6	6' PIKE POLE There will be four (4) Fire Hooks Unlimited NY roof hook RH-6, 6' pike pole(s) with steel handles and pry end provided (2) in ladder storage, (1) LS8, (1) RS8.
0759174		Pike Pole, 4' Fire Hooks Unlimited, New York Roof Hook, RH-4, Pry End	4' PIKE POLE There will be two (2) Fire Hooks Unlimited Model RH-4, 4' long roof hook with a steel handle and pry end provided.
0770572		Pike Pole Tubes, in Torque Box/Ladder Storage, Alum, Special Notch, NY Style	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be aluminum tubing provided in the torque box/ladder storage area for a total of two (2) pike poles. The pike pole tube(s) will be notched to allow a New York style pike pole to fit in the tube. If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0819588	SP	Pike Pole Tubes, in Torque Box/Ladder Storage, Alum, Special Notch	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be aluminum tubing provided in the torque box/ladder storage area for a total of four (4) pike poles Nupla fiberglass 12' YPD and Nupla fiberglass 8' YPD. The pike pole tube(s) will be notched to fit the specified pike pole(s). If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0779224	SP	Trough for D-Handled Pike Pole	PIKE POLE STORAGE Stainless steel trough(s) will be provided for the storage of one (1) pike pole. The pike poles to be stored will be NUPLA RH-8DA. The trough(s) will be installed ladder storage per signed ER print.
0004361		Tubes, Alum, Pike Pole Storage	PIKE POLE STORAGE Aluminum tubing will be used for the storage of four (4) pike poles and will be located in the tiller reservoir compartment. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided.
0768976		Bell, 12" Chrome w/Eagle, Mounted on Cab Corner, Large Brkt	BELL A chrome plated, 12.00" bronze cast bell, complete with an eagle, will be mounted on the passenger side radiused corner of cab face. The cab will be properly reinforced to support the weight of the bell, the reinforcement bracket allow the bell to mount toward the upper corner of the windshield. A rope pull, for the bell, will be installed inside the cab.
0692816		Label, Vinyl	SPECIAL LABEL There will be ten (10) special vinyl labels provided and installed (1) each "4' FT NY HOOK" and "6' FT NY HOOK" on pike tubes in RS8/LS8 and all "6' FT RUBBISH HOOK" shipped loose The labels will be worded as follows, Qty 02- "4' FT NY HOOK", Qty 02- "6' FT NY HOOK", Qty 06- "6' FT RUBBISH HOOK"
0024653		No Pump Suction Tube(s)	
0067658		Not Required, Step, Slide-Out Pump Op. Platform	
0665700		Light, Slide-Out Pump Operator Step, Not Required	
0046495		Not Required, Pump Access, No Pump	
0001836		No Light, No Pump Compartment	
0806529	SP	Air Horn, (1) Hadley, 6" Round, eTone, 24.5", In Bumper, 90 psi	AIR HORN SYSTEM One (1) Hadley 24.5" eTone air horn will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air, in the brake system. Air horn air supply will be set to 90 psi.
0606842		Location, Air Horn, Bumper, Right Side, Outside Frame, Inboard (Pos #2)	Air Horn Location The air horn will be located on the right side of the bumper, just outside of the frame rail.

0757092		Control, Air Horn, Multi Select	Air Horn Control The air horn(s) will be activated by the following:
0757081		Control, Air Horn, Ft Sw, LS	Left side foot switch
0757084		Control, Air Horn, Horn Ring	Steering wheel horn ring with electric/air horn selector switch
0814300		Not Required, Electronic Siren Control By CORE System, CCCo	
0046133		No Siren Location	
0748306		Control, Elec Siren, Multi Select	ELECTRONIC SIREN CONTROL The electronic siren will be activated by the following:
0748286		Control, Elec Siren, Rocker/Membrane Sw, LS	The left side momentary switch.
0825719		Speaker, (1) Wln, SA315P, w/Pierce Polished SS Grille, 100 watt, CCTL9, CCCo	SPEAKER There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker will be wired to the Whelen C399 amplifier control module "Siren Out" outputs, and controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. The siren speakers functions will be controlled by the cab mounted CCTL9 control head.
0601555		Location, Speaker, Frt Bumper, Recessed, Left Side, Outside Frame,Outbrd (Pos 7)	The speaker will be recessed in the left side of the front bumper, towards the outside.
0834751	SP	Siren, Aux, Wln CHOWLER Speaker System, CCCo	AUXILIARY ELECTRONIC SIREN AMPLIFIER There will be a Whelen® WeCanX™, Model CHOWLER, siren amplifier with two (2) 100W speakers provided. The siren amplifier will be wired to the Whelen® C 399 control module. The amplifier will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0834766	SP	Control, Aux Electric Siren, Timed Mom. Activation Sw, CCCo	There will be one (1) momentary switch(es) provided on the cab instrument panel located panel #9 per IP layout to control the auxiliary siren. The control for the auxiliary siren will only be enabled when the battery switch is on and the emergency master switch is on. The switch(es) will be wired to the Whelen® C399 control module. The switch(es) will operate as follows when the above conditions are met: Depressing the switch(es) once will activate the siren for a for a specified duration (10 seconds is default, but is adjustable upon request). Depressing the switch a second time will de-activate the siren. The siren will default to de-activated whenever the battery switch is cycled. The siren will default to de-activated whenever the emergency master switch is turned off. The auxiliary siren will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0650543		Location, Aux Elect Siren, Behind PS Seat, Amp Only	Auxiliary Electronic Siren Location The auxiliary electric siren will be located behind the passenger's side seat.
0824471		Not Required, Included with Siren	
0650532		Location, Aux Siren Speaker, Behind Bumper, Vent Holes Down	AUXILIARY SPEAKER LOCATION The auxiliary electric siren speaker(s) will be installed behind the bumper with the vent holes down.

0895310	Siren, Federal Q2B	AUXILIARY MECHANICAL SIREN There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus. The Q2B will be chrome finish. The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on. The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.
0006097	Location of Siren, Recessed in Bumper	The mechanical siren will be recessed in the front bumper on the right side. The siren will be properly supported using the bumper framework.
0748305	Control, Mech Siren, Multi Select	MECHANICAL SIREN CONTROL The mechanical siren will be activated by the following:
0890124	Control Mech Siren, Ft Sw LS, Loc	Left side foot switch centered on wireway cover with air horn footswitch inboard.
0734674	Sw, Siren Brake, Mom Rocker, Red Outline, RS Overhead Sw Pnl, Mux	A momentary rocker switch will be included in the right side overhead switch panel to activate the siren brake. There will be a red outline decal around the black rocker switch.
0737437	Sw, Siren Brake, Momentary Red, Pnl 9, Saber FR/Enf	A momentary red switch will be included in switch panel #9 to activate the siren brake.
0811625	Control System, Supplier Based, Electrical Wln CenCom Core C399 HW CCCo	WARNING SYSTEM CONTROL There will be a Whelen®, CenCom CORE™ WeCanX™ warning system control provided. The system will be a microprocessor based system that utilizes a centralized means of controlling the warning lighting on the vehicle. The system will include a photocell mounted in a location in the cab with a clear view of the ambient light to sense external ambient light. The warning system controlled warning lighting will be controlled as following: When in respond mode (high ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is released, and the vehicle is in high ambient light conditions, the warning light control system will change the flash pattern to LONG FLASH 75 RANDOM flash with high intensity light output. When in respond mode (low ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is released, and the vehicle is in low ambient light conditions, the warning light control system will change the flash pattern to SIGNAL ALERT 75 ALTERNATING flash with high intensity light output. When in blocking mode (high ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is applied, and the vehicle is in high ambient light conditions, the warning light control system will change the flash pattern to SINGLE FLASH 75 ALTERNATING flash with high intensity light output. When in blocking mode (low ambient light): When the emergency master switch is active, the associated warning light switch is activated, the parking brake is applied, and the vehicle is in low ambient light conditions, the warning light control system will enter the Whelen® Dynamic Variable Intensity (DVI) mode. DVI mode lowers warning light output intensity and creates a "calming" effect by slowing flash rates and synchronizing warning light flash patterns.
0824885	Control, Warning Lt Intensity, Wln, Photocell, Prk Brk, CCCo	CONTROL - WARNING LIGHTS INTENSITY When the parking brake is set, and a Whelen®, Model LCPHOTO photocell installed on the interior forward cab dash as near to the windshield as practical, is activated due to diminished ambient light, the designated Whelen® warning lights on the cab and the warning lights on the body will transition to a low power mode. In order for the activation of low power mode of the waming lights, the dash mounted Whelen® photocell must sense diminished ambient light (approx. 50 LUX), the battery switch, the ignition switch, the emergency master switch, must be on, and the parking brake set. The low power intensity mode will be reset to high power intensity mode when any of the above conditions are not met. The control will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.

0810550	Module, Control Head, CCTL9, 6 PB/Rot Knob, CCCo	CONTROL HEAD MODULE There will be one (1) Whelen® WeCanX® Model CCTL9, 2.51" H x 6.01" W x 2.07" D, six (6) button control head module with rotary knob installed in the cab location 13 per IP layout. The CCTL9 control head will have the following functions available: Pushbutton switches - six (6) programmable for various functions (Air horn, Siren, Traffic Directing, Scene Lights, etc.). Rotary knob - seven (7) position rotary switch for RAD (Radio), PA (Public Address), MAN (Manual Control), HF (Hands Free), T1 (Open), T2 (Open), and T3 (Open). Microphone input jack and microphone extension cable. The control head will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0813290	Module, Sync, WIn CV2V, CCCo	VEHICLE TO VEHICLE SYNC MODULE There will be one (1) Whelen®, Model CV2V module, 3.23" high x 4.42" wide x 0.58" deep, Vehicle to Vehicle synchronization module installed on the cab dash, in clear view of the outside through the windshield. The module will be connected to the microprocessor based Whelen® CenCom CORE™ system to synchronize the apparatus flash patterns with other Whelen® Vehicle to Vehicle enabled emergency vehicles in the vicinity, when the vehicles are in blocking mode (parking brake set). Any programming or enabling of the CV2V sync module will be completed by Whelen Engineering.
0746353	Not Required, Warning Lights Intensity	
0834670	SP Lightbar, WIn, Frdm D WCX, 81", RRRRsRWRsrROptRsrWRsrRRRR, CCCo	FRONT ZONE UPPER WARNING LIGHTS There will be one (1) 81.00" Whelen® Freedom® IV Model WCX lightbar mounted on the cab roof. The lightbar will include the following: - One (1) red flashing LED module in the left side rear corner position. - One (1) red flashing LED module in the left side end position. - One (1) red flashing LED module in the left side front corner position. - One (1) red flashing LED module in the left side first front position. - One (1) red steady LED module in the left side second front position. - One (1) red flashing LED module in the left side third front position. - One (1) white flashing LED module in the left side fourth front position. - One (1) red steady burning LED module in the left side fifth front position. - One (1) red flashing LED module in the left side sixth front position. - One (1) 795 LED traffic light controller set to national standard high priority in the center positions. - One (1) red flashing LED module in the right side sixth front position. - One (1) red steady burning LED module in the right side fifth front position. - One (1) white flashing LED module in the right side fourth front position. - One (1) red flashing LED module in the right side third front position. - One (1) red steady LED module in the right side second front position. - One (1) red flashing LED module in the right side first front position. - One (1) red flashing LED module in the right side front corner position. - One (1) red flashing LED module in the right side end position. - One (1) red flashing LED module in the right side rear corner position. There will be clear lenses included on the lightbar. The following switches may be installed in the cab on the switch panel to control the lightbar: - a switch to control the LED modules. - the traffic light controller will be by a cab switch with emergency master control. - there will be no momentary switch to activate the traffic light controller. The traffic light controller and white LED modules will be disabled when the parking brake is applied. The front facing LED modules may be load managed when the parking brake is applied. The light bar will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. An integrated photocell to measure ambient light will be installed in the cab with a clear view of the sky.
0641379	Bracket, Lightbar, Forward Offset, Custom	LIGHTBAR MOUNTING BRACKETS There will be a pair of lightbar mounting brackets that will move the lightbar forward of the normal position on the cab roof. These brackets will be made of 12 gauge steel and painted black.
0016380	No Additional Lights Req'd, Side Zone Upper	

0834724	SP	Lights, Front Zone, WIn M6**, 2Lts, CCCo	LIGHTS, FRONT ZONE LOWER There will be two (2) Whelen®, Model M6**, LED warning lights installed on the cab face, above the headlights. The left side front warning light to include red flashing LEDs. The passenger's side front warning light to be green. The warning light lens color(s) to be clear The lights will be provided with chrome trim. The lights will be controlled utilizing the Whelen® CenCom CORE™, supplier microprocessor system. There will be a switch in the cab on the switch panel to control the lights.
0558676		Daytime Running Lights, Headlights, Qtm, Vel/Imp, Enf/AXT-MUX, (Low Beam)	DAYTIME RUNNING LIGHTS (HEADLIGHTS) The low-beam headlights used as daytime running lights will be activated with the following measures: Ignition switch is turned on Parking brake is released These lights will be deactivated with any one of the following measures: Headlight switch is turned on High-beam flash is turned on Parking brake is set
0815117	SP	Light, Front, WIn IONSM** LED, 1st, CCCo	FRONT WARNING LIGHT There will be one (1) Whelen® Model IONSM**, 1.70" high x 5.90" wide x 1.10" deep LED light(s) with chrome trim and clear lenses mounted on the front of the truck, centered above the grille, 1.50" below the windshield. The light(s) to include red LEDs. The light(s) will be set to steady burn pattern #25. The light(s) will be controlled per the following: A switch in the cab on the switch panel will control the lights White light(s) will be deactivated when the parking brake is applied Amber light(s) will be deactivated when the parking brake is released The light(s) may be load managed when the parking brake is applied These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0536105	SP	Flasher, Headlight Alternating, No On/Off Switch	HEADLIGHT FLASHER The high beam headlights will flash alternately between the left and right side. The lights will be flash when the battery switch and the emergency master switches are on. The flash mode will automatically cancel when the hi-beam headlight switch is activated and when the parking brake is set.
0725610	SP	Lights, Side Zone Lower, WIn M6*CS, M6*CS, Clear Lens, CCCo 4Lts	SIDE ZONE LOWER LIGHTING There will be four (4) Whelen®, Model M6*CS, 4.31" high x 6.75" long x 1.37" deep steady burn LED warning lights with chrome trim installed per the following: Two (2) lights located, one (1) each side on the front custom cab corner. The left side, side front light to include red warning LEDs and the right side, side front light to include red warning LEDs. Two (2) lights located, one (1) each side above rear wheels. The left side, side rear light to include red warning LEDs and the right side, side rear light to include red warning LEDs. The lights will include clear lenses. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. There will be a switch in the cab on the switch panel to control the lights.
0825385	SP	Lights, Door Interior Flash, 4 Dr Cab, WIn M4*S CCCo	INTERIOR CAB DOOR WARNING LIGHTS There will be four (4) Whelen® Model M4*S, 3.37" high x 5.50" long x 1.37" LED warning lights with chrome trim. One (1) light(s) to include amber flashing LED's on the left side cab door One (1) light(s) to include amber flashing LED's on the right side cab door. One (1) light(s) to include amber flashing LED's on the right side crew cab door. One (1) light(s) to include amber flashing LED's on the left side crew cab door. The lens color(s) to be clear. Each light will be located in the door pan as low and far to the outside as practical. Each light will be activated when the battery switch is on, respective door is opened and the ignition switch is on. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0815847		Connectors, Door Interior Flash, All Cabs, Weatherproof	ELECTRICAL CONNECTORS FOR WARNING LIGHTS The lights will be installed with a weatherproof insulated crimped connectors in order to provide ease of connection/disconnection of the circuit applied to.

0813095		Lights, Side, Wln M9**S, CCCo, 1st	SIDE WARNING LIGHTS There will be two (2) Whelen®, Model M9**S, steady burning warning light(s) with chrome trim provided, UPPER CAB BETWEEN THE CAB DOORS, MATCH 38841. The light(s) to include red LEDs. The lens color(s) to be clear. These lights will be activated with the side warning switch. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. White LEDs will be deactivated when the parking brake is applied.
0889407		Lights, Side, Wln M6**S, Trm Fet CCCo 1st	SIDE WARNING LIGHTS There will be two (2) Whelen®, Model M6**S, 4.31" high x 6.75" wide x 1.37" deep steady burning warning light(s) with chrome trim provided, (1) in each recess at corner of front bumper (match 38841). The light(s) to include red LEDs. The warning light lens color(s) to be clear. There will be a switch in the cab on the switch panel to control the lights. The flash pattern of the lights will be controlled through the supplier based electrical control system. White LEDs will be deactivated when the parking brake is applied. Amber, blue, green and red LEDs may be load managed when the parking brake is applied.
0826299	SP	Lights, Side, Wln TLI* LED, Mtd in Rub Rails, CCCo	SIDE WARNING LIGHTS There will be ten (10) Whelen®, Model TLI*, 1.50" 5.00" long x 0.50" deep 12 volt DC LED warning light(s) with clear lenses and chrome trim located in the body rub rails centered as follows: LS1, LS3, LS4/LS5, LS6/LS7, LS angle behind tractor rear axle, RS1, RS3, RS4/RS5, RS6/RS7, RS angle behind tractor rear axle. The lights will NOT be mounted with the rubber gasket behind the light, which will allow the light(s) to fit in the rub rails. The color of the LEDs will be red. There will be a switch in the cab on the switch panel to control the lights. White LEDs will be disabled when the parking brake is applied. These lights will be set to pattern #33, "STEADY". These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0727126		Lights, Rear Zn Lwr, Wln M6**S, For Tail Lt Housing CCCo	REAR ZONE LOWER LIGHTING There will be two (2) Whelen®, Model M6**S, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights located at the rear of the apparatus included in the tail light housings. The left side rear warning light to include red LEDs. The right side rear warning light to include red LEDs. The warning light lens color(s) to be clear. The flash pattern of the lights will be controlled through the supplier based electrical control system. There will be a switch in the cab on the switch panel to control the lights.
0807413	SP	Lights, Rear, Wln M4**S LED, 1st, CCCo	REAR WARNING LIGHTS There will be two (2) Whelen®, Model M4**S, steady burn LED warning lights and chrome trim provided at the rear of the apparatus, on each side above the rear tiller cab window. The light(s) to include red LEDs. The warning light lens color(s) to be clear. These light(s) will be controlled with the rear upper warning switch. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0894892		Lights, Rear Zone Up, Wln L31H5FN Beacon, M6RCS Rr 2lts, CCCo	REAR AND SIDE ZONE UPPER WARNING LIGHTS There will be two (2) Whelen®, Model L31H5FN, 4.01" high x 7.17" diameter red beacons with clear domes, and two (2) Model M6RCS, 5.31" high x 6.75" wide x 1.37" deep steady burn LED warning lights with red LEDs and clear lenses provided. The rear zone upper L31H5FN red beacons with clear domes will be mounted at the rear upper zone of the body. The M6RCS steady burn LED's will be provided as high and to the outside of the rear upper zone as practical. The lights will be provided with chrome trim. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. There will be a switch located in the cab on the switch panel to control the beacons.
0006551		Not Required, Lights, Rear Upper Zone Blocking	
0824946		Light, Traffic Directing, Wln TANF65, 34.00" Long, CTA, CCTL9 Controlled, CCCo	TRAFFIC DIRECTING LIGHT There will be one (1) Whelen®, Model TANF65, 34.00" long x 2.37" high x 2.37" deep, amber LED traffic directing light installed at the rear of the apparatus for use with the Whelen CORE™ system control head Model CCTL9. The traffic directing lights will be controlled by the left, center-out, and right arrow buttons on the CCTL9 control head in the cab, utilizing the microprocessor based Whelen® CenCom CORE™ system. The traffic directing light bar will be enabled for activation when the battery switch is on.

0529278	Location, TDL, Surface Mounted	This traffic directing light will be surface mounted at the rear of the apparatus.
0824950	Location, Traf Dir Lt Control, Wln, CCTL9, CCCo, In Cab	The traffic directing light controls will be located within the Whelen®, CCTL9 control panel in the cab.
0006646	Electrical System, 120/240VAC, General Design	ELECTRICAL SYSTEM GENERAL DESIGN for ALTERNATING CURRENT The following guidelines will apply to the 120/240 VAC system installation: General Any fixed line voltage power source producing alternating current (ac) line voltage will produce electric power at 60 cycles plus or minus 3 cycles. Except where superseded by the requirements of the current edition of applicable NFPA standards, all components, equipment and installation procedures will conform to NFPA 70, National Electrical Code (herein referred to as the NEC). Line voltage electrical system equipment and materials included on the apparatus will be listed and installed in accordance with the manufacturer's instructions. All products will be used only in the manner for which they have been listed. Grounding Grounding will be in accordance with Section 250-6 "Portable and Vehicle Mounted Generators" of the NEC. Ungrounded systems will not be used. Only stranded or braided copper conductors will be used for grounding and bonding. An equipment grounding means will be provided in accordance with Section 250-91 (Grounding Conductor Material) of the NEC. The grounded current carrying conductor (neutral) will be insulated from the equipment grounding conductors and from the equipment enclosures and other grounded parts. The neutral conductor will be colored white or gray in accordance with Section 200-6 (Means of Identifying Grounding Conductors) of the NEC. In addition to the bonding required for the low voltage return current, each body and driving or crew compartment enclosure will be bonded to the vehicle frame by a copper conductor. This conductor will have a minimum amperage rating of 115 percent of the nameplate current rating of the power source specification label as defined in Section 310-15 (amp capacities) of the NEC. A single conductor properly sized to meet the low voltage and line voltage requirements will be permitted to be used. All power source system mechanical and electrical components will be sized to support the continuous duty nameplate rating of the power source. Operation Instructions that provide the operator with the essential power source operating instructions, including the power-up and power-down sequence, will be permanently attached to the apparatus at any point where such operations can take place. Provisions will be made for quickly and easily placing the power source into operation. The control will be marked to indicate when it is correctly positioned for power source operation. Any control device used in the drive train will be equipped with a means to prevent the unintentional movement of the control device from its set position. A power source specification label will be permanently attached to the apparatus near the operator's control station. The label will provide the operator with the following information: Rated voltage(s) and type (ac or dc) Phase Rated frequency Rated amperage Continuous rated watts Power source engine speed Direct drive (PTO) and portable generator installations will comply with Article 445 (Generators) of the NEC. Overcurrent protection The conductors used in the power supply assembly between the output terminals of the power source and the main over current protection device will not exceed 144.00" (3658 mm) in length. For fixed power supplies, all conductors in the power supply assembly will be type THHW, THW, or use stranded conductors enclosed in nonmetallic liquid tight flexible conduit rated for a minimum of 194 degree Fahrenheit (90 degrees Celsius). For portable power supplies, conductors located between the power source and the line side of the main overcurrent protection device will be type SO or type SEO with suffix WA flexible cord rated for 600-volts at 194 degrees Fahrenheit (90 degrees Celsius). Wiring Methods Fixed wiring systems will be limited to the following: Metallic or nonmetallic liquid tight flexible conduit rated at not less than 194 degrees Fahrenheit (90 degrees Celsius) or Type SO or Type SEO cord with a WA suffix, rated at 600 volts at not less than 194 degrees Fahrenheit (90 degrees Celsius) Electrical cord or conduit will not be attached to chassis suspension components, water or fuel lines, air or air brake lines, fire pump piping, hydraulic lines, exhaust system components, or low voltage wiring. In addition the wiring will be run as follows. Separated by a minimum of 12.00" (305 mm), or properly shielded, from exhaust piping Separated from fuel lines by a minimum of 6.00" (152 mm) distance Electrical cord or conduit will be supported within 6.00" (152 mm) of any junction box and at a minimum of every 24.00" (610 mm) of continuous run. Supports will be made of nonmetallic materials or corrosion protected metal. All supports will be of a design that does not cut or abrade the conduit or cable and will be mechanically fastened to the vehicle. Wiring Identification All line voltage conductors located in the main panel board will be individually and permanently identified. The identification will reference the wiring schematic or indicate the final termination point. When prewiring for future power sources or devices, the unterminated ends will be labeled showing function and wire size. Wet Locations

All wet location receptacle outlets and inlet devices, including those on hardwired remote power distribution boxes, will be of the grounding type provided with a wet location cover and installed in accordance with Section 210-7 "Receptacles and Cord Connections" of the NEC.

All receptacles located in a wet location will be not less than 24.00" (610 mm) from the ground. Receptacles on off-road vehicles will be a minimum of 30.00" (762 mm) from the ground.

The face of any wet location receptacle will be installed in a plane from vertical to not more than 45 degrees off vertical. No receptacle will be installed in a face up position.

Dry Locations

All receptacles located in a dry location will be of the grounding type. Receptacles will be not less than 30.00" (762 mm) above the interior floor height.

All receptacles will be marked with the type of line voltage (120-volts or 240-volts) and the current rating in amps. If the receptacles are direct current, or other than single phase, they will be so marked.

Listing

All receptacles and electrical inlet devices will be listed to UL 498, Standard for Safety Attachment Plugs and Receptacles, or other appropriate performance standards. Receptacles used for direct current voltages will be rated for the appropriate service.

Electrical System Testing

The wiring and associated equipment will be tested by the apparatus manufacturer or the installer of the line voltage system.

The wiring and permanently connected devices and equipment will be subjected to a dielectric voltage withstand test of 900-volts for one (1) minute. The test will be conducted between live parts and the neutral conductor, and between live parts and the vehicle frame with any switches in the circuit(s) closed. This test will be conducted after all body work has been completed.

Electrical polarity verification will be made of all permanently wired equipment and receptacles to determine that connections have been properly made.

Operational Test per Current Edition NFPA Standard

The apparatus manufacturer will perform the following operation test and ensure that the power source and any devices that are attached to the line voltage electrical system are properly connected and in working order. The test will be witnessed and the results certified by an independent third-party certification organization.

The prime mover will be started from a cold start condition and the line voltage electrical system loaded to 100 percent of the nameplate rating.

The power source will be operated at 100 percent of its nameplate voltage for a minimum of two (2) hours unless the system meets category certification as defined in the current edition of applicable NFPA standards.

Where the line voltage power is derived from the vehicle's low voltage system, the minimum continuous electrical load as defined in the current edition of applicable NFPA standards will be applied to the low voltage electrical system during the operational test.

0729368	SP	Generator, Harrison 4.8kW MSV 120/240V, Hydraulic, Digital Volt, Hz, Hour, Meter	GENERATOR The apparatus will be equipped with an alternating current (AC) electrical power system. The generator will be a Harrison, 4,800 watt (120/240 VAC 40/20 amps) Stinger, hydraulic driven unit. The generator will be driven by a transmission power take off unit, through a hydraulic pump and motor. The hydraulic engagement supply will be operational at any time (no interlocks). To properly monitor the generator performance, a digital voltage, frequency, hour meter will be provided.
0505796		Location, Hydraulic Generator Above Gooseneck of Tiller	GENERATOR LOCATION The generator will be mounted in the area above the goose neck of the tiller trailer. The flooring in this area will be either reinforced or constructed, in such a manner, that it will handle the additional weight of the generator.
0016752		Starting Sw, Truck Engine Powered Gen, Cab Sw Pnl	GENERATOR START There will be a switch provided on the cab instrument panel to engage the generator.
0016757		Not Required, Remote Start, Generator	
0016740		Not Required, Fuel System	
0016767		Not Required, Oil Drain Extension, Generator	
0672957		Circuit Breaker Panel, PTO Gen, As Small As Practical	CIRCUIT BREAKER PANEL The smallest size practical circuit breaker panel will be located right wall of RS7 as high and outboard by door frame as possible.
0016771		Not Required, Routing Exhaust, Generator	

0006825		Reel, Elect Cable, Hannay, 1600, (3) Wire	ELECTRIC CORD REEL Furnished with the 120 volt AC electrical system will be a Hannay, Series 1600, cord reel. The reel will be provided with a 12-volt electric rewind switch, that is guarded to prevent accidental operation and labeled for its intended use. The switch will be protected with a fuse and installed at a height not to exceed 72.00" above the operators standing position. The exterior finish of the reel(s) will be painted #269 gray from the reel manufacturer. No guide is required on the reel assembly. A ball stop will be provided to prevent the cord from being wound on the reel. A label will be provided in a readily visible location adjacent to the reel. The label will indicate current rating, current type, phase, voltage and total cable length. A total of one (1) cord reel will be provided one (1) outboard on the passenger's side gooseneck. The cord reel will be configured with three (3) conductors.
0006828		Cord, Electric, 10/3 Yellow, 3 Wire	CORD Provided for electric distribution will be one (1) length installed on the reel of 200 feet of yellow 10/3 electrical cord, weather resistant 105 degree Celsius to -50 degree Celsius, 600 volt jacketed SOOW cord. A Hubbell L5-20, 20 amp, 120 volt, twist lock connector body will be installed on the end of the cord.
0722667	SP	Box, Junc, Circle-D, 3Wire, 1-20A 120V Dup SB GFCI, 3-20A 120V TL,LED Lt	PORTABLE JUNCTION BOX There will be a total of one (1) electrical junction box(es), listed for use in wet locations and provided with an LED light to indicate power on. Each box will be designed to keep the exterior electrical components above 2.00" of standing water, protected from corrosion, and capable of being carried with a gloved hand. There will be a cable strain relief and a 1.00' pigtail with wire mesh grip, NEMA L5-20, 20 amp, 120 volt twist lock plug provided for each box. Each box will be yellow powder coated . Each Circle D, PF51G Series, box will be provided with the following receptacles: One (1) 120 vac, 20 amp duplex straight blade receptacle with ground fault circuit protection Three (3) 120 vac, 20 amp single twist lock receptacles, GFCI protected from duplex receptacle
0731504	SP	Enclosure, Reel, Reel Access Door, Spcl Size, Pneu Arm, D Ring	REEL ENCLOSURE An aluminum treadplate enclosure will be installed over the reel(s). The enclosure(s) will be provided with a stainless steel hinge that will allow the cover(s) to be opened. The enclosure(s) will be sized so that it fits as tight up against the reel as possible, and wide enough to store an electric junction box to the side of the reel. There will also be an aluminum treadplate door with a D-Ring handle latch on the front (body side) of the reel(s) enclosure(s). A pneumatic arm will be provided to hold the door panel(s) open when reel(s) are in use. The enclosure will not extend out beyond the side of the body, when the door is closed. A captive roller assembly will be provided to assist with the payout of the cord. A ball stop will be provided on the cord to stop the cord at the roller assembly. A total of one (1) will be installed .
0006824		Holder, Junction Box, Tread Plate Aluminum	JUNCTION BOX HOLDER There will be an aluminum junction box holder installed adjacent to the cord reel. A total of one (1) will be mounted at pick-up.
0519934		Not Required, Brand, Hydraulic Tool System	
0649753		Not Required, PTO Driven Hydraulic Tool System	
0755072		Aerial, 107' ASL, 750/500 Tip, 50 MPH Wind, Tiller	FOUR (4)-SECTION 107 FOOT TRACTOR-DRAWN AERIAL LADDER CONSTRUCTION STANDARDS The ladder will be constructed to meet all of the requirements as described in the current edition of applicable NFPA standards. The aerial device will be a true ladder type device. These capabilities will be established in an unsupported configuration. All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50 percent of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA standard. All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20 percent of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA standard. Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire core for increased flexibility. The wire rope will be galvanized to reduce corrosion. The aerial base pivot bearings will be maintenance free type bearings and require no external lubrication. The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface.

The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.

With the aerial device out of the cradle and in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows.

All welding of aerial components, including the aerial ladder sections, turntable, pedestal, and outriggers, will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes.

The aerial device will be capable of operating in conditions of wind up to 50 mph and icing conditions of up to a 0.25" coating over the aerial structure.

All of the design criteria must be supported by the following test data:

Strain gage testing of the complete aerial device

Analysis of deflection data taken while the aerial device was under test load

The following standards for materials are to be used in the design of the aerial device:

Materials are to be certified by the mill that manufactured the material

Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification

All welded structural components for the ladder will be traceable to their mill lots.

LADDER CONSTRUCTION

The ladder is comprised of four (4) sections.

The ladder will have the capability to support a minimum of 750 lb at the tip in the unsupported configuration, based upon 360 degree rotation, up to full extension and from -10 degrees to +77 degrees.

The ladder (handrails, baserails, trusses, K-braces and rungs) will be constructed of high strength low alloy steel, minimum 100,000 pounds per square inch yield, with full traceability on all structural members.

Each section will be trussed diagonally, vertically and horizontally using welded steel tubing.

All ladder rungs are round and welded to each section utilizing "K" bracing for lateral and torsional rigidity.

The inside width dimensions of the ladder will be:

Base Section:

41.87"

Lower Mid Section:

34.88"

Upper Mid Section:

27.87"

Fly Section:

21.63"

The height of the handrails above the centerline of the rungs will be:

Base Section:

26.28"

Lower Mid Section:

22.68"

Upper Mid Section:

20.06"

Fly Section:

17.32"

The ladder will be designed to provide continuous egress for firefighters and civilians from an elevated position to the ground.

The egress section will be designed to maintain the rated load of the aerial device. It will be bolted on for easy replacement. There will be a lift eye welded on to each side of the egress.

VERTICAL HEIGHT

The ladder will extend to a minimum height of 107' above the ground at full extension and elevation. The measurement of height will be consistent with NFPA standards.

HORIZONTAL REACH

The rated horizontal reach will be 100'. The measurement of horizontal reach will be consistent with NFPA standards.

TURNTABLE

The upper turntable assembly will connect the aerial ladder to the turntable bearing. The steel structure will have a mounting position for the aerial elevation cylinders, ladder connecting pins, and upper turntable operator's position.

The turntable will be coated with a non-skid, chemical resistant material in the walking areas.

The stepping surfaces will meet the skid-resistance requirements of the current NFPA standard.

The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from aluminum and have a slip resistant knurled surface. The turntable vertical handrail spacing will be designed with a 44.00" wide x 27.00" high opening to allow for equipment to pass through from the ground to the aerial ladder.

The opening will be located at the center, rear of the turntable. A chain will be provided across this opening.

ELEVATION SYSTEM

Dual 5.50" diameter elevating cylinders will be mounted on the underside of the base section of the ladder, one (1) on each side. One (1) 2.25" diameter stainless steel pin will fasten each cylinder to the ladder and one (1) 2.50" diameter stainless steel pin will fasten each cylinder to the turntable. The pins will have 125,000 psi minimum yield strength and will be secured with 0.50" Grade 8 bolts with castle nut and cotter pin. The bolts are to ensure that the pins do not walk out of the mounting brackets on the turntable and base section.

The elevating cylinders will be mounted utilizing maintenance-free spherical bearings on both ends of the cylinders. The aerial base pivot bearings will be maintenance-free type bearings with no external lubrication required. **The cylinders will function only to elevate the ladder and not as a structural member to stabilize the ladder side movement. The elevating cylinders will be provided with pilot-operated check valves on the barrel and rod side of the piston to prevent movement of the ladder in case of a loss of hydraulic pressure.**

The operation envelope will be 10 degrees below horizontal to 77 degrees above horizontal.

The elevation system will be designed following NFPA standards. The elevation hydraulic cylinders will incorporate cushions on the upper limit of travel.

The lift cylinders will be equipped with integral holding valves located in the cylinder to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. Linear transducers will measure the extension of the elevation cylinder. The microprocessor will provide the following features:

Collision avoidance of the elevation system to prevent accidental body damage

Automatic deceleration when the aerial device is lowered into the cradle

Automatic deceleration at the end of stroke, in maximum raise and lower positions

Deceleration of the aerial device at the limits of travel.

EXTENSION/RETRACTION SYSTEM

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. Each set will be capable of operating the ladder in the event of a failure, of the other. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. Linear transducers will measure the ladder extension. The microprocessor will provide the following features:

Automatic deceleration at the end of stroke, in maximum extend and retract positions

All sheaves will require lubrication. They will have bronze bushings and grease zerks.

MANUAL OVERRIDE CONTROLS

Manual override controls will be provided for all aerial and stabilizer functions.

LADDER SLIDE MECHANISM

UHMW polyethylene wear pads will be used between the telescoping ladder sections, to provide greater bearing surface area for load transfer. Adjustable slide pads will be used to control side play between the ladder sections.

ROTATION SYSTEM

The aerial will be supplied with a powered rotation system as outlined in NFPA standards.

The hydraulic rotation motor will provide continuous rotation under all rated conditions and be supplied with a brake to prevent unintentional rotation. One (1) hydraulically driven, planetary gear box with drive speed reducers will be used to provide infinite and minute rotation control throughout the entire rotational travel. One (1) spring applied, hydraulically released disc type swing brake will be furnished to provide positive braking of the turntable assembly. Provisions will be made for emergency operation of the rotation system should complete loss of normal hydraulic power occur. The hydraulic system will be equipped with pressure relief valves which will limit the rotational torque to a nondestructive power. The gearbox will have a minimum continuous torque rating of 80,000 in. lbs. and a minimum intermittent rating of 160,000 in. lbs. The turntable bearing, ring gear teeth, pinion gear, planetary gearbox, and output shaft will be certified by the manufacturer of the components for the application.

The rotation system will be controlled by the microprocessor. The microprocessor will provide the following features:

Collision avoidance to prevent accidental body damage

Prevent the aerial from being rotated into an unstable condition.

ROTATION INTERLOCK

The microprocessor will be used to prevent the rotation of the aerial device to the side in which the stabilizers have not been fully deployed (short-jacked). The microprocessor will allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where the stabilizers have been fully deployed. The system will also have a manual override to comply with the current edition of applicable NFPA standards.

LADDER CRADLE INTERLOCK SYSTEM

A ladder cradle interlock system will be provided through the microprocessor to prevent the lifting of the aerial device from the nested position until the operator places all the stabilizers in a load supporting configuration. A switch will be installed at the boom support to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

AERIAL TORQUE BOX/PEDESTAL

The pedestal assembly will be a welded assembly made of high strength 0.25" plate. The vertical member will be a 0.375" reinforced wall cylinder with a 28.00" outside diameter and will connect the rotation bearing mounting plate to the lower substructure.

The pedestal assembly will be bolted to the chassis frame with 0.88" diameter Grade 8 bolts, and will be utilized to mount the outrigger jacks and reservoir for the aerial hydraulic system.

LOAD CAPACITIES

The following load capacities will be established with the stabilizers at full horizontal extension and placed in the down position to level the truck and to relieve the weight from the tires and axles. Capacities will be based upon full extension and 360 degree rotation. A load chart, visible at the operator's station, will be provided. The load chart will show the recommended safe load at any condition of the aerial device's elevation and extension.

50 MPH WIND CONDITIONS/WATERWAY DRY

Degrees of

Elevation

-10 to 9

10 to 19

20 to 29

30 to 39

40 to 49

50 to 59
 60 to 69
 70 to 77
 Egress
 750
 750
 750
 750
 750
 750
 750
 Fly
 -
 -
 -
 -
 -
 250
 500
 750
 Upper Mid
 -
 -
 -
 -
 250
 500
 1000
 1000
 Lower Mid
 -
 -
 -
 -
 500
 750
 1000
 1000
 Base
 -
 -
 -
 500
 500
 1000
 1000
 1000
 50 MPH WIND CONDITIONS/WATERWAY CHARGED
 Degrees of
 Elevation
 -10 to 9
 10 to 19
 20 to 29
 30 to 39
 40 to 49
 50 to 59
 60 to 69
 70 to 77
 Egress
 500
 500
 500
 500
 500
 500
 500
 500
 Fly
 -
 -
 -
 -
 -
 250
 500
 500
 Upper Mid
 -
 -
 -
 -
 250
 500
 750
 1000
 Lower Mid
 -

			- - 250 500 750 1000 1000 Base - - 250 500 750 1000 1000 1000 Reduced loads at the tip can be redistributed in 250 lb increments to the fly, mid, or base sections as needed. The tip capacity will be reduced to zero when flowing water with the nozzle above the waterway centerline. BOOM SUPPORT A heavy-duty boom support will be provided for support of the ladder in the travel position. On the base section of the ladder, a stainless steel scuffplate will be provided where the ladder comes into contact with the boom support.
0785993	SP	Light, Boom Support, TecNiq E10-W000-1 LED	AERIAL BOOM SUPPORT LIGHT There will be one (1) TecNiq part number E10-W000-1, 1.39" high x 6.39" long light with white LEDs mounted on the boom support cradle. This light will be activated by the aerial master switch.
0786378	SP	Skid Plate, 0.50" Steel, Under Tiller Trailer Rear Body, 72.00" Wide	SKID PLATE AT REAR OF TRAILER FRAME RAILS There will be a 72.00" wide skid plate bolted under the rear of the tiller trailer, to the rear of the frame rails that is approximately 10.00" forward of the rear wall. The skid plate will be a 0.50" thick formed steel channel that is approximately 9.00" wide and positioned on slant with the departure angle and slightly below the departure angle line. The plate will be painted job color.
0755127		Tie Down, Rope, Per Pair, 9000lb Rating, Trailer Gooseneck, Tiller	ROPE TIE DOWN AT GOOSENECK There will be two (2) pairs of rope tie downs provided each side of the tiller gooseneck in the forward and rearward locations. Equal quantities will be provided on each side. The tie downs will be rated for a straight line pull of 9000 lb and will be nickel plated.
0663833		Boom Support, Raised, Tiller	SPECIAL HEIGHT BOOM SUPPORT A special height boom support will be provided to raise the aerial device to clear the compartment on top of the body.
0680821		Boom Panel, Pair	AERIAL BOOM PANEL There will be one boom panel provided on each side of the aerial ladder base section. The boom panel will be painted #10 white. The boom panels will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.
0526885		Indicator, Extension, Inside and Outside Handrails, Every 10'	EXTENSION INDICATOR Extension markings and corresponding numerical indicators will be provided along each inside and outside top rail of the base section of the aerial every 10'. They will indicate various positions of extension up to full. Markings and indicators will be clearly visible to the console operator. To aid in visibility during hours of darkness, the markings and numerical indicators will be red reflective material.
0723718		Steps, Folding, Two, Aerial Device, Trident	FOLDING STEPS One (1) set of folding steps will be provided at the tip of the ladder. The steps will be bright finished with a black tread coating on the stepping surface. Each step will have no integrated light.
0688232		Rung Covers, Aerial Device	AERIAL DEVICE RUNG COVERS Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating. The rung covers will be glued to each rung and will be easily replaceable should the rung cover become damaged. The center portion of each rung cover will be black and the outside 2.00" edge at each side will be black. Under no circumstances will the rung covers be fastened to the rungs using screws or rivets. The rung covers will have a 10-year, limited warranty.

0780041		Egress, Shortened, Ascendant Ladder, 100'/105'	SPECIAL LENGTH EGRESS A special egress section will be provided on the aerial ladder. The egress will be shortened by one (1) rung.
0826842	SP	Polished S/S Holder, for Sign Kit, Aerial Device	PLATE HOLDER FOR DEPARTMENT NUMBERS There will be two (2) polished stainless steel sign plate holder(s) attached to the aerial device lacing Base section, one each side. SS Holder, 24.00" x 16.00" with bent edge on three sides to hold number plate. The holder will be hemmed on each side and the bottom to hold the sign plate in place. The sign plate will slide in from the top and bent tabs at the top will hold the department plate in place. This will be sized to allow for the following size sign plate: Painted number plate, 23 5/8" X 16.00" x 3/16" with 0.75" top lip bent at 90 degree forward as grab handle (Pictures available upon request)
0828094	SP	Brackets Only, Roof/Fresno Ladder, Base Section, Inbd of Boom Panel, Spcl Strap Mtg	LADDER STORAGE MOUNTING BRACKETS Mounting will be provided on the right side of the aerial device while viewed from the turntable for storage of one (1) roof ladder(s). The bracket(s) will be located inboard of the boom panel at the base section. The bracket(s) will hold the boom panel as close to the base section as possible and include straps that are mounted to a plate that extends above the base section handrail to secure the ladder. The mounting brackets will accommodate a 12' Duo-Safety 775-DR roof ladder as determined by the type of aerial device and the available space.
0674963		Scabbard, Temporary Vent Saw Storage, No Depth Gauge, Aerial Ladder	TEMPORARY SCABBARD AT END OF AERIAL There will be a total of two (2) vent saw scabbard(s) provided. The scabbard(s) will be mounted on each side of the aerial tip. The scabbard(s) will be DA finished.
0676785		Bracket Only, Rubbish Hook, Aerial Fly Section	RUBBISH HOOK MOUNTING BRACKET Mounting will be provided near the end of the fly section of the aerial ladder for a rubbish hook. The bracket will be sized to hold a Nupla 8' roof vent rubbish hook with D handle.
0623645		Aerial Stability Test, Maximum Tip Options	STABILITY TEST An aerial stability test will be run on the apparatus using the maximum weight allowance for tip options.
0601972		Lights, Turntable Walkway, P25, LED	LIGHTS FOR TURNTABLE WALKWAY There will be white LED lights provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.
0767535		Light, Turntable Console, TecNiq E-10, LED	TURNTABLE CONSOLE LIGHTING There will be one (1), TecNiq Model E10, white LED light mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.
0806144	SP	Grease Points Extended, Eight (8), Lockout Cylinders to 5th Wheel, Tiller	EXTENDED GREASE POINTS The two (2) grease fittings for each of the four (4) lockout cylinders on the trailer 5th wheel will be extended to two (2) central grease points mounted on the right side of the 5th wheel mount.
0682164		Cover, Around Aerial Rotation Bearing	ROTATION BEARING COVER A cover will be fitted over the aerial rotation bearing and drive pinion gear(s). The cover will be aluminum treadplate and attached to the underside of the turntable deck.
0814632		Control Stations, ASL Tiller, MUX, Color Display, CL714	INFORMATION CENTER There will be an information center provided at the aerial turntable control station. The information center will operate in temperatures from -40 to 158 degrees Fahrenheit. The information center will employ a Linux operating system and a 7.00" (diagonal measurement) LCD display. The LCD will have a 1000 nits rated, color display. The LCD will be sunlight readable. The LCD display will be encased in an ABS, grey plastic housing with a Pierce decal. There will be five (5), weather-resistant user interface switches provided. The LCD display can be changed to an available foreign language. OPERATION The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed. GENERAL SCREEN DESIGN Where possible, background colors will be used to provide vehicle information <i>At A Glance</i> . If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a

warning condition.

Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.

A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.

Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.

PAGE SCREENS

The Information center will include the following pages:

The Aerial Main and Load Chart page will indicate the following information:

Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols.

Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder.

Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time.

Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20%. A red bar graph will indicate oxygen levels at or below 20%. When oxygen levels are at or below 10% the red bar graph will flash.

The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable).

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Aerial Reach and Hydraulic Systems page will indicate the following information:

Aerial Hydraulic Oil Temperature will be indicated with symbol and text. At a glance features will be utilized.

Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. At a glance features will be utilized.

The following calculations will be indicated on a representative vehicle symbol:

Aerial Device Extension length.

Aerial Device Height indicating the height of the aerial device tip from the ground.

Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable.

Aerial Device Angle indicating the angle from the vehicle which the device is at.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Level Vehicle page will indicate the following information:

The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade.

The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope.

Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following:

Outrigger stowed indicated with a silver pan located close to the vehicle

Outrigger fully extended indicated with a fully deployed green outrigger

Outrigger short-jacked indicated by a yellow outrigger partially deployed

Outrigger not set indicated by a red outrigger that is not set on the ground

A text box located on the vehicle symbol will be utilized to identify the overall status of the outrigger leveling system. The following status will be indicated in the text box:

Deployed status will indicate all outriggers are properly set on the ground at full extension

Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.

Not Set status will indicate one or more outriggers is not properly set on the ground.

Stowed status will indicate all outriggers are stowed for vehicle travel.

A bedding assist alert will indicate that the aerial device is being aligned by the Command Zone system as the operator lowers the aerial device into the cradle with the joystick.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

MENU SCREENS

The following screens will be available through the Menu button:

The View System Information screen will display aerial device hours, aerial PTO hours, ladder aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).

The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.

The Configure Video Mode screen will allow setting of video contrast, video color and video tint.

The Set Startup screen allows setting of the screen that will be active at vehicle power-up.

The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.

The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.

The System Diagnostics screen allows the user to view system status for each module and it's respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.

Aerial calibrations screen indicates items that may be calibrated by the user and instructions to

follow for proper calibration of the aerial device.

Button functions and button labels may change with each screen.

STABILIZER CONTROL STATION

There will be an easily accessible control station located on the trailer gooseneck, one (1) each side of the apparatus. The following controls and indicator lights will be clearly identified and conveniently located for ease of operation and viewing at each control station.

Driver Side/Passenger Side In/Out control switches

Driver Side/Passenger Side Up/Down control switches

Driver Side/Passenger Side Fully Extended indicator lights

Driver Side/Passenger Side Firm On Ground indicator lights

Stabilizer Emergency Power control switch

Trailer Level Assist control toggle switch

Global Safety Interlock Override red guarded switch

Aerial system Emergency Stop switch

Aerial system Emergency Stop Activated indicator light

TURNTABLE CONTROL STATION

There will be one (1) device control station located on the right side of the turntable so the operator may easily observe the ladder tip while operating the controls. All elevation, extension and rotation controls will operate from this location. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits, as determined by the manufacturer and NFPA standards. Each control will be equipped, with a positive lock to hold the control in a neutral position, preventing accidental activation. In addition to the neutral lock, a console cover will be provided at the turntable control station.

The following items will also be provided at the turntable control station, clearly identified and lighted for nighttime operation and conveniently located for ease of operation and viewing:

Intercom controls

Tip tracking light switch

Emergency stop switch

Emergency power unit switch

Operator's load chart

Two (2) position switch for selecting aerial operational speed

HIGH IDLE

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle, only when the parking brake is set and the transmission is placed in neutral.

0789602	Stabilizers, ASL Tractor Drawn Steel Aerial, Split Pan, 17' Spread	STABILIZERS The vehicle will come equipped with a stabilization system consisting of two (2) hydraulically operated out and down style stabilizers. This system will meet or exceed all requirements of the NFPA specifications related to stabilization and setup on sloped surfaces. The stabilizer/leveling jacks will have a maximum spread of 17' measured from the centerline of the jack footpads when the beams are fully extended. The beams will be 6.81" wide x 8.88" high with 0.75" thick top and bottom plates and 0.50" thick sides of 100,000-PSI minimum yield strength steel. The cylinders will have pilot-operated check valves with thermal relief designed to ensure that the beams will not drift out of the stowed position during travel. Wear pads will guide the stabilizers. The horizontal extension cylinders will be totally enclosed within the beams and will incorporate telescoping hydraulic tubing to supply the jack cylinder hydraulic power. Stabilizer hydraulic hoses will remain stationary during operation of the stabilizers to prevent hose wear and potential failure. The cylinders will be equipped with decelerators to reduce the speed of extension and retraction when the beams are near the fully retracted and extended positions. The stabilizer extension hydraulic cylinders will have the following dimensions: 2.25" bore, 1.38" rod, and 57.25" stroke. The vertical jack cylinders will be capable of 12.00" ground penetration. The cylinders will be supplied with pilot operated check valves on each jack cylinder to hold the cylinder in the stowed or working position, should a charged line be severed at any point in the hydraulic system. For safety, the integral holding valves will be located in the cylinder base end, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods from damage. The stabilizer jack hydraulic cylinders will have the following dimensions: 4.25" bore, 3.00" rod, and 28.88" stroke. Each stabilizer jack will have a pan that will be of the split-pan design and will be a maximum 12.50" wide so as to allow the extension of the stabilizer between parked cars or other obstacles. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back 90 degrees for added strength. STABILIZER PADS The stabilizer footpad will be 12.00" in diameter. The footpad will be attached to the jack cylinder rod by means of a machined ball at the end of the jack cylinder rod which mates to a socket machined into the footpad. The footpad will have the ability to pivot 20 degrees from horizontal in any direction to allow setup on uneven terrain. AUXILIARY STABILIZER PADS An auxiliary ground pad will be supplied for each stabilizer to provide additional load distribution on soft surfaces. The pads will be 24.00" square and made from lightweight composite material. The ground pressure will not exceed 75 lb per square inch when the ground pads are used and the apparatus is fully loaded and the aerial device is carrying its rated capacity in any position. There will be one (1) pad located on each side of the apparatus, behind the stabilizers. STABILIZER CONTROLS An electrically controlled hydraulic valve will power stabilizer movement. The valve can also be manually controlled in the event of electrical malfunction. Hydraulic power override controls will be incorporated into the valve. The manual override mechanism will be completely sealed within the valve assembly to prevent any possibility of corrosion. The stabilizer controls will be located on the trailer gooseneck, one (1) each side of the apparatus, to provide the operator with a full view of each stabilizer being positioned. Each stabilizer control panel will include the following: - Driver Side/Passenger Side In/Out control toggle switches - Driver Side/Passenger Side Up/Down control toggle switches - Driver Side/Passenger Side Fully Extended indicator lights - Driver Side/Passenger Side Firm On Ground indicator lights - Stabilizer Emergency Power control toggle switch - Trailer Level Assist control toggle switch - Global Safety Interlock Override red guarded toggle switch - Aerial system Emergency Stop mushroom switch - Aerial system Emergency Stop Activated indicator light As a safety device, an electrically actuated diverter valve will be provided. The hydraulic power will be diverted to the aerial ladder controls automatically the instant all stabilizer jacks are firmly planted on the ground. Once the aerial ladder is raised from the bedded position, the stabilizer hydraulic power is cut off so the stabilizers will not accidentally be moved while the aerial is being operated. To aid in leveling the unit, two (2) bubble type angle indicators will be located near the stabilizer controls. One (1) indicator will show the angle of the truck from the front to rear and the other will show the side to side angle of the truck. The indicators will be color coded green to show when the truck has been properly leveled allowing the aerial device to be operated at full capacity. A stabilizer deployment audible warning alarm will be provided at each side of the body, activated by the stabilizer movement. A "Stabilizers Not Stowed" indicator light will be provided in the cab within view of the driver. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the vehicle if it is moved. The stabilizer system will also be wired to the "Do Not Move Truck" indicator light. This light will flash whenever the apparatus parking brake is not engaged and the stabilizers are not fully stowed.
0728961	Stabilizer Pan Material	STABILIZER PAN MATERIAL The aerial stabilizer pans will be polished stainless steel.
0530819	Not Required, Aerial Stabilizer Pins	STABILIZER PINS The stabilizer jacks will not have holes for the stabilizer pins.

0779621	Doors, Stabilizer Control Box, Valve/Electrical Distribution Box, Tiller	STABILIZER CONTROL BOX DOORS There will be polished stainless steel doors hinged on the bottom with a flush lift and turn latch provided over each stabilizer control box. VALVE/POWER DISTRIBUTION BOX ACCESS DOOR There will be polished stainless steel doors with a flush lift and turn latch provided over the valve and power distribution box doors. These doors will be bottom hinged.
0786011	Hydraulic System, ASL Tiller	HYDRAULIC SYSTEM All hose assemblies will be assembled and crimped by the hose manufacturers certified technician. All manufacturing employees responsible for the installation of hydraulic components will be properly trained. Training will include: proper handling, installation, torque requirements, cleanliness and quality control procedures for hydraulic components. Hoses used in the aerial hydraulic system will be of a premium quality hose with a high abrasion resistant cover. All pressure hoses will have a working pressure of 4000 psi and a burst pressure rating of 16,000 psi. All hydraulic fittings and tubing will be plated to minimize corrosion. The fitting will use an O-ring seal where possible to minimize hydraulic leaks. An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in the current edition of applicable NFPA standards. The system will meet the performance requirement of the current edition of applicable NFPA standards, which requires adequate cooling less than 2.5 hours of operations. All hydraulic components that are non-sealing whose failure could result in the movement of the aerial will comply with current edition of applicable NFPA standards and have burst strength of 4:1. Dynamic sealing components whose failure could cause aerial movement will have a margin of 2:1 on maximum operating pressure per the current edition of applicable NFPA standards. All hydraulic hoses, tubes, and connections will have a minimum burst strength of 4:1 per the current edition of applicable NFPA standards. A chassis mounted positive displacement piston pump for consistent pressure and rapid responses will supply hydraulic power for all aerial operations. The positive displacement pump will provide 3,150psi. The hydraulic pump will be solely dedicated to aerial operations. The hydraulic oil will be a premium Multi-Vis product having a leading edge additive package, provide oxidation stability, be extremely shear stable and maximum anti-wear properties. All oil delivered to the manufacturing site will have a minimum ISO cleanliness level of 18/15/13. Each aerial will be evaluated as to the region and climate where it will be used to determine the optimum viscosity and proper oil grade. Oil viscosity will be based on an optimum range of 80 to 1000 SUS during normal aerial use. Before shipment of the unit, an oil sample will be taken and analyzed to confirm the oil is within the allowable ISO grade tolerance. The aerial hydraulic system will have a minimum oil cleanliness level of ISO 18/15/13 based on the ISO 4406:1999 cleanliness standard. Each customer will receive a certificate of actual cleanliness test results and an explanation of the rating system. Each aerial will include an oil sample port, identified with a yellow dust cap and a label, for subsequent customer testing. Ball valves will be provided in the hydraulic suction lines to permit component servicing without draining the oil reservoir. The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks. Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel. The system hydraulic pressure will be displayed on the turntable display. The hydraulic system will be additionally protected from excessive pressure by a secondary pressure relief valve set at 3,150 psi. In the event the main hydraulic pump compensator malfunctions, the secondary relief will prevent system damage. HYDRAULIC CYLINDERS All cylinders used on the aerial device will be produced by a manufacturer that specializes in the manufacture of hydraulic cylinders. Each cylinder will include integral safety holding cartridges. Each cylinder will be designed to a minimum safety factor of 4:1 to failure. All safety holding cartridges will be installed at the cylinder manufacturer, in a controlled clean environment to avoid possible contamination and or failure. POWER TAKEOFF/HYDRAULIC PUMP The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift, located inside the cab. The power takeoff which drives the hydraulic pump will meet all the requirements for the aerial unit operations. An amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged. An interlock will be provided that allows operation of aerial power only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle. The hydraulic system will be supplied by a variable displacement load and pressure compensating piston pump. The pump will meet the demands of all three simultaneous aerial functions. The pump will provide proper flow for single aerial function with the engine at idle speed. A switch will be provided on the control console to increase the engine speed for multiple function operation. EMERGENCY PUMP The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of the current NFPA standard. The aerial will be equipped with an emergency hydraulic pump, electrically driven from the truck batteries. The pump will be capable of running for 30 minutes for limited aerial functions to stow the unit in case of a main pump or truck system failure. A momentary switch will be located at the stabilizer and aerial control locations to activate the emergency pump. AERIAL CONTROL VALVE The aerial hydraulic control valve will be designed with special spool flows, limiting the oil flow for the designed function speed. The valve will be electrically controlled and be located in the control console with the handles oriented downward for manual operation. The activation handles will be

spaced a minimum of 3.50" for ease of operation. The valve spools will be designed to bleed off downstream pressure, in the neutral position and allow proper sealing of any cylinder holding cartridge.

OIL RESERVOIR

The oil reservoir will have a minimum capacity of 40 gallons. The oil fill location will be easily accessible and be labeled "Hydraulic Oil Only" and also indicate the grade of oil that is installed in the reservoir. The fill cap will have a 40 micron filter to provide protection from contamination. A drain hose will be included and will terminate with a quarter turn ball valve.

Two suction ports will be provided, one for the main hydraulic pump and one for the emergency pump. The main suction will be slightly elevated off the bottom of the reservoir and include a 100 mesh suction strainer. The emergency suction port will be closer to the bottom of the reservoir to provide some reserve oil for emergency operation.

A six (6) disc type magnetic drain will also be provided to collect any ferrous contaminants.

A combination sight glass and thermometer will be mounted to the reservoir in an easily viewable location.

The hydraulic oil reservoir will be labeled per the current edition of applicable NFPA standards.

RETURN FILTER

The low pressure oil return filter will be remote mounted and designed to prevent oil loss during filter change. A 50 psi bypass will be included to protect the element and hydraulic system during lower than normal operating temperatures. The system will incorporate the following filter to provide dependable service:

return filter: beta 200 at 6 micron

0786880

Swivels, D-Series w/Encoder, ASL-Tandem/Tiller, MUX (32 Collector Rings)

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 32 collector rings will be provided that are capable of supplying 30 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

12-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 12-Bit Absolute Encoder which provides 4096 counts per shaft turn for position and direction reference.

The 12-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 12-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 12-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

0709718

Electrical System, ASL Tiller, MUX

ELECTRICAL SYSTEM

The aerial device will utilize a microprocessor-based control system. The system will consist of the following components:

Control System Modules

Each of the control system modules will be configured as follows:

Sealed to a NEMA 4X rating

Operating range from -40 degrees F to 156 degrees F (-40 degrees C to 70 degrees C)

Communicate using J1939 data link

Two (2) diagnostic LED lights

One (1) green light that illuminates when module has power (B+) and ground

One (1) red light that flashes to indicate the module is capable of communicating via the data link

Up to 16 diagnostic LEDs on each module

Ground matrix identification system

The following control system modules will be used:

Control Module

Main controller for the system

USB connection allows for computer diagnostics

Power Module

Built-in fault sensing

Eight (8) digital outputs

Pulse width modulating (PWM) capable

10A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Current Control Module

Built-in fault sensing

Three (3) analog inputs

Eight (8) digital outputs

Pulse width modulating (PWM) capable

3A continuous per output

Closed Loop System

Circuit protection based on actual current draw (not affected by heat)

Input Module

16 software selectable (digital or analog) inputs

Output Module

16 digital outputs

Input/Output Module

Eight (8) software selectable (digital or analog) inputs

Eight (8) digital outputs

0804781		Aerial Scene Lts Separated into Aerial Tip Category and Aerial Tracking Category	
0803462		Lights, Tip, Wln MP** LED, 2lts	TIP LIGHT There will be two (2) Whelen® Model MP**, 5,695 lumens 12 volt DC LED lights installed at the tip of the aerial device. One (1) will be located on the left side with left side tip light to include flood optics. One (1) will be located on the right side with right side tip light to include flood optics. The light(s) to be installed on adjustable bail bracket(s). The painted parts of this light assembly to be white The lights will be controlled with the tracking lights.
0802753		Lights, Tracking, Wln MP** LED, 2lts	TRACKING LIGHTS There will be two (2) Whelen® MP**, 5,695 lumens 12 volt DC LED lights installed on the base section of the aerial device below the hand rails per the following: One (1) will be located on the left side with left side tracking light to include spot optics. One (1) will be located on the right side with right side tracking light to include spot optics. The light(s) to be installed on adjustable bail bracket(s). The painted parts of this light assembly to be white. The tracking lights will be controlled by a switch located at the turntable only.
0759048	SP	Light, Locator, Wln M6** At Tip, Facing Out, PAL/PAP, 2lts	AERIAL LED LOCATOR LIGHT There will be two (2) Whelen®, Model M6**, 4.31" high x 6.75" wide x 1.37" deep 12 volt DC flashing LED lights with chrome trim installed at the aerial tip facing out, one (1) on the left side and one (1) on the right side. The light(s) to include blue LEDs and the warning light lens color(s) to be clear. The light will be activated when the aerial master switch is activated.
0653677		Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid, Fly	LIGHTING ON AERIAL LADDER There will be TecNiq, Model D02 LED rung lighting provided on both sides of the aerial ladder base, lower and upper mid, and fly sections. The lighting will be located adjacent to the ladder rungs along the lower rail of the ladder sections and will run the length of the ladder section. The color of the sections will be: The base section of the ladder to be blue. The lower mid section of the ladder to be blue. The upper mid section of the ladder to be blue. The fly section of the ladder, excluding the egress, to be blue. The LED rung lighting will be activated when a switch at the turntable operator's panel is activated through the aerial master. The lights may be load managed when the parking brake is applied.
0724727		Lights, Stabilizer Warn (1) Set, Wln M6**S, CCCo	STABILIZER WARNING LIGHTS There will be two (2) Whelen®, Model M6**S, steady burn LED warning lights. The lights will have chrome housing and be installed on the stabilizer cover panels, one (1) each side. The left side rear stabilizer pan warning light to include red LEDs. The right side rear stabilizer pan warning light to include red LEDs. The lens color(s) to be clear. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. These warning lights will be activated by the same switch as the side warning lights.
0068703		Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	STABILIZER BEAM WARNING LIGHTS Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.
0888066	SP	Lights, Stabilizer Scene, (1) set, TecNiq E10-W000-1, LED	STABILIZER SCENE LIGHTS There will be two (2) TecNiq, Model E10-W000-1, 1.39" high x 6.39" long x 0.98" deep lights with white LEDs installed under the stabilizer beam to illuminate the surrounding area, one (1) under each stabilizer. These lights will be activated by the aerial master switch.
0006929		Not Required, 120v To Tip	
0737181		Intercom, 2-Way Fire Research ICA910 Hands Free	2-WAY AERIAL COMMUNICATION SYSTEM There will be a Fire Research, Model ICA910, two-way intercom system provided. The control module with an LED volume display and push-button volume control will be located on the turntable operator console. A hands free module will be located at the aerial tip or platform and constantly transmit to the other module unless the control module push-to-talk button is pressed. Each intercom unit will be weatherproof.

0540895	Not Required, Breathing Air to Tip, Aerial Ladder	
0024742	Not Required, Mask, Breathing Air To Tip	
0066919	Not Required, Raised Pedestal, Tiller	
0604457	Lifting Eye Assembly, Rope Rescue Attachment, ASL, LSL	LIFTING EYE ASSEMBLY - ROPE RESCUE ATTACHMENT A lifting eye assembly will be provided that is designed to evenly distribute load at the tip of the aerial. The lift eye assembly is retained by two (2) locking pins, one (1) at each end outboard side of the egress. Leveling is maintained by the lifting eye assembly rotating within the egress mounting. The lifting eye assembly rating will match the capacity rating of the aerial device.
0530828	Turntable Access, Chains	AERIAL TURNTABLE CHAIN A chain will be installed at the aerial turntable.
0026967	Not Required, Waterway and Monitor	
0543509	No Monitor Required, No Waterway	
0086974	Flowmeter Not Req'd, Waterway Deleted (PAL)	
0036953	Not Required, Waterway Inlet	
0011770	Not Required, Quick-Lock Waterway	
0047901	Not Required, Tools, Aerial, PAL/PAP	
0559494	Manuals and Training, 3 Consecutive Days, Ascendant Ladder, PAL	MANUALS Two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device will be provided with the apparatus at time of pick-up. INITIAL INSTRUCTION On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of three (3) consecutive days.

0832198	Cab, Tiller, 2025	TILLER CAB A permanently mounted tiller cab will be located on top of the tiller trailer, to the rear of the aerial ladder. The maximum overall height of the tiller cab will not exceed 134.00". The tiller cab will be totally enclosed. The cab windshield will be automotive approved tinted safety glass and will provide a minimum of 1,513 square inches of clear viewing area. Each side window, directly rearward of the windshield, will be more than 536 square inches. The side windows, combined with the windshield, will provide a minimum of 2,585 square inches of unobstructed viewing area. In order to provide maximum visibility for the tillerman, there will be no corner posts at the forward corners of the windshield. The upper area of each tiller cab door will be contoured into the roof, providing greater clearance when entering and exiting the tiller cab. The tiller cab doors will be equipped with drop-down sliding window. The windows will be 18.00" wide x 31.00" high. The rear wall of the tiller cab will have a vertically-split sliding window. The window will be 33.50" wide x 27.75" high. The tiller cab floor will be constructed of aluminum treadplate. A two (2) speed electric windshield wiper with washer will be provided for the front windshield. The windshield washer reservoir will have a capacity of two (2) quarts and will be located forward of the tiller cab. An adjustable, telescopic steering column will be provided. The diagnostic plug for the trailer ABS system will be provided in the driver side tiller access stepwell, behind the fuel fill door. The following controls/alarms will be provided inside the tiller cab: - Buzzer signaling system with push button in tiller cab steering wheel as well as a labeled push button in the tractor cab, within reach of the driver. - Jackknife alarm The following will be provided on the steering column support pedestal: - Two (2) heater/defroster outlets - Heater/defroster control switch The following controls/gauges will be located in the upper control panel: - Tiller wheel position indicator LCD color display gauge (L-C-R) - Two (2) LED amber turn signals - Windshield wiper/washer control switch
0726217	Sun Visor, Vinyl/Fabric, Tiller Cab	A vinyl covered sun visor will be provided in the tiller cab above the windshield. There will be a black plastic thumb latch provided to help secure the sun visor in the stowed position.
0636263	Light, Dome, FRP Dual LED 1lt	TILLER CAB DOME LIGHT There will be one (1) dual LED dome light with black bezel installed in the tiller cab. The color of the LED will be red and white. The white LED will be controlled by the door switches and the lens switch. The color LED will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.
0830310	Heater/Defroster, Tiller Cab, Electric, Dual 12V, Badger, 3 Spd, Med Climate	TILLER CAB HEATER/DEFROSTER There will be two (2) Badger Truck, combination heater/defroster assemblies, part number 2968329, provided in the tiller cab. Each heater/defroster system will have an airflow of 220 cfm. Each heater/defroster will have a 3-speed motor, a high/low heat switch, and thermostatic control located in the tiller cab within reach of the tillerman. The system will be 12-volt and be powered through the tractor ignition circuit. There will be a minimum of two (2) defrost outlets in the cab for maximum defrost performance.
0555793	Not Required, Air Conditioner, Tiller Cab, Tiller	
0695671	Seat, Tiller, Pierce PS6, Premium, Air Ride Hi-Back	TILLER CAB SEAT A seat will be provided in the tiller cab. The seat will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. The seat will have a reclining back adjustable from 20 degrees back to 0 degrees forward. The seat back will be a high back style with manual lumbar adjustment lever, and will include minimum 7.50" deep side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep dual density foam cushions designed with EVC (elastomeric vibration control). To ensure safe operation, the seat will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled. The seat will be furnished with a 3-point, shoulder type seat belt. The seat belt will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

0661495		Steps, Tiller Access, Narrow Rear	TILLER CAB STEPS For access to the tiller cab, two (2) sets of steps will be furnished at the rear of the apparatus, one set each side. The bottom three (3) access steps will be full width, approximately 21.00" wide, and located just behind the tiller axle. The top step will be full width, approximately 18.50" wide. The steps will be securely reinforced and constructed of aluminum treadplate. The outside corners at the rear edges of the steps will be mitered at 45 degrees. A vertical handrail will be provided on each side of the step assemblies for maximum safety. There will also be a curved handrail from the top of the body up onto the tiller cab. The steps will be illuminated for nighttime operation.
0819650	SP	Tiller Warning Indicators, Seatbelt Warn in Cab, Clr Dis, Bl Gravoply, Spcl Lts	JACKKNIFE ALARM An audible warning system will be provided to warn both the tractor and tiller drivers when the jackknife position approaches the maximum allowable angle. There will be a warning message displayed on the color display located in the tractor cab to warn the driver when the jackknife position approaches the maximum allowable angle. There will be an indicator light located in a switch panel in the tractor cab to warn when the jackknife position approaches the maximum allowable angle. This indicator will include a blue Gravoply™ cover. There will be a Whelen®, Model RS*02ZCR LED indicator light mounted with a chrome trim located in the tiller cab to warn the tiller cab driver when the jackknife position approaches the maximum allowable angle. The light will be blue in color and be mounted on an angled bracket that matches the tiller cab interior coating, centered on the overhead of the tiller cab above the windshield. TILLER WARNING INDICATOR There will be a warning message displayed on the color display located in the tractor cab for when the parking brake is released and the tiller driver is not present in the tiller cab. There will be a Whelen, Model VTX609B blue LED indicator light mounted with a Whelen, Model VTXFC chrome flange provided overhead center on metal bracket (see pictures shared on workflow) on the tractor cab overhead.
0618861	SP	Mirror, 8" Round Convex, Tiller Cab Mounting Arm Extended .50"	CONVEX MIRRORS ON TILLER CAB An 8.00" diameter round convex mirror with adjustable arm will be installed on each side of tiller cab.
0618862	SP	Window Protector Bars, Knurled, Tiller Cab Doors, 2" Above Window Sill Plate	WINDOW PROTECTOR BARS, TILLER CAB DOORS A knurled window protector bar will be installed on each tiller cab door, 2.00" above the bottom of the window opening. The bar will extend from the front of the cab door to the rear of the cab door, mounted as close to the door frame as possible.
0661114		Tinted Glass, 14%, Tiller Cab Rear Wall Window	WINDOW TINT The tiller cab rear wall sliding window will be tinted with 14% light transmission tint.
0051052		Window Defrost Fans (2)	WINDOW DEFROST FANS Two (2) window defrost fans will be mounted dashboard one each side forward of each camera screen like job 28346.
0512533		Lights, Turn Signals Model 33 IPOS, Tiller Cab	LIGHTS, TURN SIGNALS (inside tiller cab) The turn signal lights inside the tiller cab will be amber. There will be two (2) Truck-Lite, model 33050Y recessed LED light, mounted one (1) each side in overhead position of tiller cab.
0548464		Footswitch, Buzzer Signaling System, Location	FOOTSWITCH A foot switch will be provided in the tiller cab to activate the buzzer signaling system. The foot switch will be installed RS floor of the tiller cab, LEAVE LOOSE UNTIL FINAL
0503743		Door Stop, Rubber Bumper, w/Door Plate, Tiller Cab Doors	DOOR STOP Rubber material will be provided on an angled bracket to stop the open travel for each of the tiller cab doors. A polished stainless steel scuffplate will be provided on the outside of the door and extend under the bottom of the door to protect the door from the bumper.

0626264	Trailer, 3.00" Extended Gooseneck, Shorter Trailer, Single Axle, Tiller	TILLER TRAILER The gooseneck area of the tiller trailer will be constructed of 100,000 psi minimum yield strength steel. The gooseneck area will have a section modulus of 289.00 cu. in. and a resistance to bending moment of 28,900,000 inch pounds. The gooseneck area will be 46.00" wide x 13.50" deep. The tiller trailer frame will be box type construction to effectively resist trailer twist. The side rails will have a 13.38" tall web over the front and mid sections of the trailer, with a continuous smooth taper to a 10.75" over the tiller axle. The frame rails will be constructed of 80,000 psi minimum yield strength heat treated .38" thick steel, with 3.50" wide flanges and covered by top and bottom plates to form a ridged box structure. Cover plates will be 50,000 psi minimum yield strength steel. The tiller trailer frame will have a section modulus of 257.70 cu. in., and a resisting bending moment (rbm) of 12,880,000 inch pounds over the critical regions of the frame assembly, with a section modulus of 18.96 cu. in. with an rbm of 2,085,803 inch pounds over the rear axle. The overall length of the tiller trailer will be 458.00". This will be shorter than standard, but will include a 3.00" extended gooseneck area of the trailer.
0090681	Walkway, Turntable to Body, Tiller	WALKWAY, TURNTABLE TO BODY A walkway will be provided from the aerial turntable to the tiller body.
0052481	Axle, Tiller Trailer, Oshkosh TAK-4, Non Drive, 22,800#	TILLER TRAILER NON DRIVE AXLE The tiller trailer axle will be of the independent suspension design with a ground rating of 22,800 lb. Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron. The center cross members and side plates will be constructed out of 80,000-psi yield strength steel. Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations. The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative chamber above rated load. Camber at load will be zero degrees for optimum tire life. The kingpin bearing will be of low friction design and be sealed for life. Toe links that are adjustable for alignment of the wheel to the center of the trailer will be provided. The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase. The turning angle will be up to 24 degrees. TILLER TRAILER NON DRIVE AXLE WARRANTY The non drive axle system will have a three (3) year parts and labor warranty.
0032125	Steering, Sheppard M110 w/tilt, TAK-4, Tiller Trailer	TILLER TRAILER STEERING Dual Sheppard M110 steering gears, with integral heavy-duty power steering, will be provided. The steering wheel will be 18.00" in diameter, and capable of tilting and telescoping. A lock-out pin will be provided on the tiller cab steering column.
0652502	Brakes, Meritor, EX225, 17", Disc Plus, TAK-4, Tiller	BRAKES The tiller trailer brake calipers will be Meritor® DiscPlus™ EX225 air disc type. The brake rotors will be 17.00" ventilated.
0052483	Suspension, Tiller, 22,800#	SUSPENSION Independent suspension will be provided with a minimum ground rating of 22,800 lb. The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces, and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment. Each wheel will have torsion bar type spring. In addition, each wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension. The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms. The torsion bar type spring and anchor lock system will allow for simple lean adjustments without the use of shims. Adjustment for a lean will be accomplished within 15 minutes. Anchor adjustment design is such that it allows 4.00" of ride height adjustment per side. The independent suspension will have been put through a durability test that simulated a minimum of 140,000 miles of inner city driving.
0898937	Tires, Goodyear, Armor MAX MSA, 425/65R22.5 20 Ply (tiller)	TIRES Tiller trailer tires will be Goodyear 425/65R22.50 radials, 20 ply Armor MAX MSA, rated for 22,800 lb maximum axle load and 68 mph maximum speed.

0037030	Wheels, Alum. Alcoa, 22.50" x 12.25" (385/425), Tiller	WHEELS, TILLER The tires will be mounted on Alcoa® 22.50" x 12.25" polished aluminum disc type wheels with a ten (10)-stud 11.25" bolt circle.
0037050	Oil Seals, Tiller Axle	OIL SEALS Oil seals with viewing window will be provided on the tiller axle.
0007150	Bag of Nuts and Bolts	LOOSE EQUIPMENT The following equipment will be furnished with the completed unit: Five (5) bags of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.
0816498	NFPA Required Loose Equipment, Aerial, NFPA/ULC 2024, Provided by Fire Dept	NFPA LOOSE EQUIPMENT NFPA Required Loose Equipment Provided by Fire Department The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department: One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 107, <i>American National Standard for High-Visibility Safety Apparel and Accessories</i> , and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front. Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band. Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities. Four (4) ladder belts meeting the requirements of NFPA 2500. NFPA Loose Equipment That Should be Considered The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered: Two (2) 3 ft - 4 ft plaster hooks with D handles mounted in brackets fastened to the apparatus Two (2) crowbars Two (2) claw tools Two (2) 12 lb (5 kg) sledgehammers Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit Six (6) salvage covers, each a minimum size of 12 ft x 18 ft (3.6 m x 5.5 m) Four (4) combination spanner wrenches Two (2) scoop shovels One (1) pair of bolt cutters, 24.00" (0.6 m) minimum One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 2500 One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 2500 One (1) 150 ft (45 m) utility ropes having a breaking strength of at least 5000 lb (2300 kg) One (1) box of tools to include the following: one (1) hacksaw with three (3) blades one (1) keyhole saw one (1) 12" (.3 m) pipe wrench one (1) 24" (.6 m) pipe wrench one (1) ballpeen hammer one (1) pair of tin snips one (1) pair of pliers one (1) pair of lineman's pliers assorted types and sizes of screwdrivers assorted adjustable wrenches assorted combination wrenches One (1) automatic external defibrillator (AED)
0816518	NFPA Req'd Loose Equipt, No Waterway, NFPA/ULC 2024, Provided by Fire Department	NFPA REQUIRED LOOSE EQUIPMENT NO WATERWAY The following loose equipment as outlined in 1900, 2024 edition, Chapter 8 and CAN/ULC S515:2024 edition, section 5.2, will be provided by the fire department. Manual ladder pipe with 1.25" in. (32 mm), 1.375" (35 mm), and 1.50" (38 mm) tips or electric ladder pipe with automatic nozzle that can be attached to the aerial ladder. Sufficient length(s) of 3.00" (75 mm) or larger attack hose complying with the requirements of NFPA 1961 to reach between the installed ladder pipe and the ground with at least 10 ft (3 m) of hose available on the ground with the ladder at full extension. One (1) hose strap for each ladder section. Halyards to control the ladder pipe from ground level (for manual ladder pipe only). A bracket for carrying the detachable ladder pipe provided on the apparatus and designed so that the ladder pipe clamps will not have to be readjusted to secure the pipe to the aerial ladder.
0816939	Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0007482	Not Required, Crowbars	
0007484	Not Required, Claw Tools	
0816998	Axe, Flathead, Provided by Fire Department	FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0817000	Axe, Pickhead, Provided by Fire Department	PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0007494	Not Required, Sledgehammers	

0741569	Paint Process / Environmental Requirements, Appleton	PAINT PROCESS The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows: <u>Manual Surface Preparation</u> - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate. <u>Chemical Cleaning and Pretreatment</u> - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. <u>Surfacer Primer</u> - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded. <u>Finish Sanding</u> - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat. <u>Sealer Primer</u> - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated. <u>Basecoat Paint</u> - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment. <u>Clear Coat</u> - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer. After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color. All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly. The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacture's written paint standards will be available upon request. Environmental Impact Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions: Topcoats and primers will be chrome and lead free. Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals. Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor. Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient. Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean. Paint wastes are disposed of in an environmentally safe manner. Empty metal paint containers will be recycled to recover the metal. Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse. Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.
0709566	Paint, Two-Tone Color, Enforcer	TWO-TONE CAB PAINT The cab will be painted two-tone with the upper section painted #10 white and the lower section painted Dark Red # 100. There will be a standard two-tone cab paint break provided. There will be no cab shield provided.
0709845	Paint, Single Color, Body	BODY PAINT The body will be painted to match the lower section of the cab.
0509327	Paint, Two Tone, Tiller Cab	PAINT The cab will be two-tone, with the upper section painted White #10 and the lower section of the cab painted Red #100. The paint break will be located to match 28726.

0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly will be finished with primer and gloss paint to match the lower job color before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc. Components that are included with the chassis frame assembly that will be painted (unless otherwise stated in a secondary option) are: - Frame rails - Frame liners - Cross members - Axles - Suspensions - Steering gear - Battery boxes - Bumper extension weldment - Frame extensions - Body mounting angles - Rear Body support substructure (front and rear) - Pump house substructure - Steel fuel tank - Castings Individual piece parts used in chassis and body assembly Components treated with epoxy E-coat protection prior to paint: - Two (2) C-channel frame rails - Two (2) frame liners The E-coat process will meet the technical properties shown.
0693797	No Paint Required, Aluminum Front Wheels	
0693792	No Paint Required, Aluminum Rear Wheels	
0809564	No Paint Required, Aluminum Tiller Wheels	
0733739	Paint, Axle Hubs	AXLE HUB PAINT All axle hubs will be painted black #101.
0007234	Compartment, Unpainted, D/A Finished	COMPARTMENT INTERIOR FINISH The interior of the compartments will be dual action finished and not painted.
0790913	Aerial Ladder Paint, Incl Gooseneck, Stabilizers, Tiller	AERIAL DEVICE PAINT COLOR The aerial device paint procedure will consist of a seven (7) step finishing process as follows: 1. <u>Manual Surface Preparation</u> - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting. 2. <u>Zinc Rich Primer</u> - Zinc rich primer will be applied to the trailer including the gooseneck and stabilizer housings, stabilizer beams and jacks, and upper 5th wheel components. 3. <u>Primer/Surfacer Coats</u> - A two (2) component epoxy primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting. 4. <u>Hand Sanding</u> - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish. 5. <u>Primer Coat</u> - A two (2) component epoxy primer coat will be applied over the sanded primer. 6. <u>Topcoat Paint</u> - Urethane base coat will be applied to opacity for correct color matching. 7. <u>Clear Coat</u> - Two (2) coats of an automotive grade two (2) component urethane will be applied. Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate. All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor. Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items. The aerial device components will be painted as follows using the aforementioned seven (7) step finishing process: - Aerial device ladder sections and extension cylinders: white 10 - Aerial turntable: white 10 - Aerial control console: white 10 - Aerial lift cylinders: white 10 - Aerial rotation motor (if applicable): white 10 - Aerial trailer including the gooseneck and stabilizer housings, 5th wheel components below the rotation point, body support structure, tiller axle and suspension: dark red 100 - Aerial stabilizers: dark red 100 - Aerial egress: 100 dark red (will be contrasting color to the aerial device ladder sections) - Aerial boom support: dark red 100

0544129		Reflective Band, 1"-6"-1"	REFLECTIVE STRIPES Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.
0007356		Reflective across Cab Face	The reflective band provided on the cab face will be at the headlight level.
0583446		Stripe, Chevron, Rear, Diamond Grade, Tiller	REAR CHEVRON STRIPING There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus including the rear door. The tillerman cab and rear bumper will not be covered. The colors will be red and fluorescent yellow green diamond grade. Each stripe will be 6.00" in width. This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.
0598747		Stripe, Reflective/Diamond Grade, Chevron Stripes, Two (2) Stabilizers	REFLECTIVE STRIPE ON STABILIZERS There will be 4.00" wide alternating red diamond grade and fluorescent yellow green diamond grade reflective chevron stripes provided on the forward and rear facing sides of both aerial stabilizers. The stripes will be angled at a 45 degree angle.
0082587		Folded Ribbon in Reflective Stripe, Pair With Air Brushing	FOLDED RIBBON IN REFLECTIVE STRIPE There will be one (1) folded type ribbon/s added to the reflective stripe LS6/RS6 per signed LSP.
0017359		Stripe, Black Outline, Vinyl on Reflective Band	REFLECTIVE STRIPE OUTLINE A black outline will be applied on the top and the bottom of the reflective band. There will be three (3) set of outline stripes required.
0671876		Stripe, Diamond Grade Chevron, Slide Out Tray, Front and Sides	SLIDE OUT TRAY DIAMOND GRADE CHEVRON STRIPING A series of alternating red diamond grade and fluorescent yellow green diamond grade reflective stripes will be applied to the front and sides of eleven (11) slide out tray(s) located (1) RS5, (2) LS7/RS7 xverse, (1) RS5 upper, (2) RS6, (2) LS6, (1) LS5, .
0660093		Stripe, Reflective, Chevron, Body Compt Door Interior, Diamond Grade	DIAMOND GRADE CHEVRON STRIPE ON BODY COMPARTMENT DOOR INTERIOR A fluorescent yellow green diamond grade and red diamond grade reflective stripe will be provided across the interior of 30 body compartment door(s). LS1, LS3-LS9, RS1, RS3-RS9 . The stripe will be located approximately 1.00" up from the bottom, on the door panel.
0667294		Stripe, Reflective, Chevron, Body Compt Door Edge, Diamond Grade	DIAMOND GRADE CHEVRON STRIPE ON COMPARTMENT DOOR EDGE A red diamond grade and fluorescent yellow green diamond grade reflective stripe will be provided on the door edge of two (2) compartment doors. LS2 and RS2.
0545179		Stripe, Diamond Grade, Chevron, Front Bumper	CHEVRON STRIPING ON THE FRONT BUMPER There will be alternating chevron striping located on the front bumper. The colors will be Fluorescent Yellow-Green 983-23 and Red 983-72 diamond grade. The size of the striping will be 6.00".
0644274	SP	Stripe,Chevron on Alum Plate, Bolted Onto Rear of Truck under Turn Table,Tiller	REAR REFLECTIVE STRIPE (Additional) A Reflective stripe in a Chevron design will be installed on a smooth aluminum plate that will be bolted to the rear of the truck under the turn table on a Tiller.
0818686	SP	Stripe,Chevron on Alum Plate, Curved Panel on Fender Under Turn Table,Tiller	REAR REFLECTIVE STRIPE (Additional) A Reflective stripe in a Chevron design will be installed on a curved aluminum plate on the fender under the turn table on a tiller.
0634721		Stripe, Reflective, Chevron, Cab Doors Interior, Diamond Grade	CHEVRON, INVERTED "V" STRIPING ON CABDOORS There will be alternating chevron striping located on the inside of each cab door. The striping will consist of the following colors: The first color will be red diamond grade The second color will be fluorescent yellow green diamond grade The size of the striping will be 4.00".

0579602		Stripe, Reflective, Tillerman Doors Interior, Diamond Grade, Chevron	REFLECTIVE STRIPE, TILLERMAN DOORS A 4.00" diamond grade reflective stripe will be provided across the interior of each tillerman's entry door. The stripe will be located approximately 1.00" up from the bottom, on the door panel. The diamond grade stripe will be the same colors as the reflective striping on the interior of the cab doors. This stripe will meet the NFPA 1901 requirement.
0680368		Stripe, Gold Leaf, Two-Tone Paint Break, Tiller Cab	TILLER CAB STRIPE There will be a genuine gold leaf stripe provided on the paint break located at the tiller cab.
0680372		Stripe, Gold Leaf, Cab Sides, IPO Chrome Molding	CAB STRIPE There will be a genuine gold leaf stripe provided on both sides of the cab in place of the chrome molding.
0033179		Lettering Specifications, Reflective	
0686166		Lettering, Reflective, 2.00", (21-40)	LETTERING Twenty-one (21) to forty (40) reflective lettering, 2.00" high, with outline and shade will be provided.
0017773		Stripe, Gold Leaf, Side of Body, Over Fender Only, Single Axle	BODY STRIPE There will be a genuine gold leaf stripe provided on each side of the body, over the fender.
0685979		Lettering, Reflective, 16.00", Each	LETTERING There will be reflective lettering, 16.00" high, with no outline or shade provided. There will be three (3) letters provided.
0685998		Lettering, Reflective, 9.00", Each	LETTERING There will be reflective lettering, 9.00" high, with outline and shade provided. There will be 16 letters provided.
0686013		Lettering, Reflective, 6.00", Each	LETTERING There will be reflective lettering, 6.00" high, with outline and shade provided. There will be three (3) letters provided.
0686018		Lettering, Reflective, 5.00", Each	LETTERING There will be reflective lettering, 5.00" high, with outline and shade provided. There will be 24 letters provided.
0686048		Lettering, Reflective, 1.00", Each	LETTERING There will be reflective lettering, 1.00" high, with outline and shade provided. There will be 12 letters provided.
0686084		Lettering, Reflective, 3.00", Each	LETTERING There will be reflective lettering, 3.00" high, with outline and shade provided. There will be eight (8) letters provided.
0585190	SP	Emblem, "Star of Life", 6", Reflective, Each	EMBLEM one (1) emblem/s, showing a "Star of Life", will be installed per the LSP on the vehicle. The emblem will be made with reflective material. The size will be approximately 6.00" high x 6.00" wide.
0029814		Emblem, Maltese Cross, Gold Leaf, 18"-20", Pair	MALTESE CROSS INSTALLATION There will be one (1) pair of maltese crosses, comprised of genuine gold leaf material, provided and installed located on cab doors.
0755303		Artwork File, Provided on Custom USB Drive	ARTWORK ON CUSTOM USB DRIVE There will be a custom USB drive with department specific artwork files provided to the Fire Department. Stock artwork, or artwork developed exclusively by Pierce Manufacturing, and proprietary fonts will not be included on the USB drive.

0769753	Emblem, American Flag Painted on Cab Grille, All Custom Chassis	CAB GRILLE DESIGN An American flag design will be painted on the cab grille.
0772003	Manual, Fire Apparatus Parts, USB Flash Drive, Custom	FIRE APPARATUS PARTS MANUAL There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided. The manual(s) will contain the following: Job number Part numbers with full descriptions Table of contents Parts section sorted in functional groups reflecting a major system, component, or assembly Parts section sorted in alphabetical order Instructions on how to locate parts Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies. Service Parts Internet Site The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.
0772037	Manual, Chassis Service, USB Flash Drive, Custom	CHASSIS SERVICE MANUALS There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit. The manual will contain the following sections: Job number Table of contents Troubleshooting Front Axle/Suspension Brakes Engine Tires Wheels Cab Electrical, DC Air Systems Plumbing Appendix The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.
0773381	Manual, Chassis Operation, (1) USB Flash Drive, Custom	CHASSIS OPERATION MANUAL The chassis operation manual will be provided on one (1) USB flash drive.
0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.
0696698	Warranty, Engine, Cummins, 5 Year, WA0181	ENGINE WARRANTY A Cummins five (5) year limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	STEERING GEAR WARRANTY A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.
0596017	Warranty, Frame, 50 Year, Custom Chassis, WA0013	FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.
0733306	Warranty, Single Axle, 5 Year, Meritor General Service, WA0384	SINGLE REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor™ Axle 5 year limited warranty will be provided.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.

0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0647720	Warranty, Pierce LED Strip Lights, WA0203	COMPARTMENT LIGHT WARRANTY The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	TRANSMISSION WARRANTY The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission. Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.
0685945	Warranty, Transmission Cooler, WA0216	TRANSMISSION COOLER WARRANTY The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be included with this proposal.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.
0690936	Warranty, Roll up Doors, Not Required	
0006999	Warranty, Structure, 20 Year, Aerial Device, WA0052	TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY The Pierce device limited warranty certificate, WA0052, is included with this proposal.
0687388	Warranty, Swivels, 5 Year, Aerial Device, WA0197	AERIAL SWIVEL WARRANTY An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be included with this proposal.
0685727	Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	HYDRAULIC SYSTEM COMPONENTS WARRANTY Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty. HYDRAULIC SEAL WARRANTY Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty. A copy of the warranty certificates is included with this proposal.
0681128	Warranty, Waterway, Not Required	
0595860	Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	FOUR (4) YEAR PRO-RATED PAINT AND CORROSION A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.
0725636	Warranty, Harrison Generator, 2 Year	TWO (2) YEAR GENERATOR MATERIAL AND WORKMANSHIP WARRANTY A Harrison Hydra-Gen generator two (2) year limited warranty will be provided.
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.
0595412	Warranty, Graphics Lamination, 1 Year, Apparatus, WA0168	ONE (1) YEAR MATERIAL AND WORKMANSHIP The Pierce graphics fading and deterioration limited warranty limited warranty certificate, WA0168, is included with this proposal.

0819254	Certification, Vehicle Stability, CD0196	VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.
0808564	Certification, Engine Installation, Enf, Cummins X15, 2027	ENGINE INSTALLATION CERTIFICATION The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.
0686786	Certification, Power Steering, CD0098	POWER STEERING CERTIFICATION The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification is included with this proposal.
0892691	Certification, Cab Integrity, Saber FR/Enforcer, CD0189	CAB INTEGRITY CERTIFICATION The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below: SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. European Occupant Protection Standard ECE Regulation No.29. SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks. Side Impact The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident. Frontal Impact The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420. Additional Frontal Impact The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420) Roof Crush The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons. Additional Roof Crush The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29) The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.
0631973	Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	CAB DOOR DURABILITY CERTIFICATION Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.
0631978	Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	WINDSHIELD WIPER DURABILITY CERTIFICATION Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i> . The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.
0631974	Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.

0631977	Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	SEAT BELT ANCHOR STRENGTH Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria. SEAT MOUNTING STRENGTH Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.
0735949	Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	PERFORMANCE CERTIFICATIONS Cab Air Conditioning Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria. Cab Defroster Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. <i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i> Cab Auxiliary Heater <i>Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.</i>
0545073	Amp Draw Report, NFPA Current Edition	AMP DRAW REPORT The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. The manufacturer of the apparatus will provide the following: Documentation of the electrical system performance tests. A written load analysis, which will include the following: The nameplate rating of the alternator. The alternator rating under the conditions specified per: Current edition of applicable NFPA standards. The minimum continuous load of each component that is specified per: Current edition of applicable NFPA standards. Additional loads that, when added to the minimum continuous load, determine the total connected load. Each individual intermittent load. All of the above listed items will be provided by the bidder per the current edition of applicable NFPA standards.
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000029	TILLER BODY	
0000012	PIERCE CHASSIS	
0004713	ENGINE, OTHER	
0046396	EVS 4000 Series TRANSMISSION	
0020037	NO PUMP	
0020015	ABS SYSTEM	
0755455	AERIAL HIGH	



Electrical Analysis

7/24/2025

Bid #: 987 **Job #:**

Desc: San Mateo Consolidated 107 Tiller (Duplicate 38841) **Sales Rep:** Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT **Organization:** Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0006825	Reel, Elect Cable, Hannay, 1600, (3) Wire		0.00	36.00	0.00
0098841	Batteries, (6) Deka Grp 31, 1000 CCA each, Threaded Stud		0.00	3.00	0.00
0589905	Alarm, Back-up Warning, PRECO 1040		0.00	0.50	0.00
0622582	Cab Lift, Elec/Hyd, Manual Override, Control Loc Feature, Sab		0.00	180.00	0.00
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber		0.00	26.00	0.00
0637289	Compt, At Rear Between Tow Eyes, Divider, Alum Sngl Pan Dr,		0.00	0.00	1.80
0652881	Lights, Dome, FRP Dual LED		0.00	0.00	0.80
0653350	Guards, Vehicle Camera(s), Painted Smooth Aluminum		0.00	0.00	0.00
0653677	Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid,		0.00	0.00	7.20
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine		0.00	0.42	0.00
0725783	Lights, Centering, Cab Roof, Tlr, Clpsbl, Attwood NV2002SS-7,		0.00	0.00	1.44
0730590	Lights, Engine Compt, Custom, Auto Sw, TecNiq E10-W000-1 LED		0.00	0.44	0.00
0734681	Compt, 16.50 W x 25.50 H x 15 D, Ea Side C/C, Sgl Pan, 70"		0.00	0.00	0.00
0745684	High Idle w/Electronic Engine, Auto On, 90 sec Delay, Custom		0.00	1.20	0.00
0768059	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 2nd		0.00	0.00	12.00
0768061	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 1st		0.00	0.00	12.00
0789602	Stabilizers, ASL Tractor Drawn Steel Aerial, Split Pan, 17' Spread		0.00	2.00	0.00
0803462	Lights, Tip, WIn MP** LED, 2lts		0.00	0.00	7.03
0804781	Aerial Scene Lts Separated into Aerial Tip Category and Aerial		0.00	0.00	0.00
0805325	Light, Directional, WIn M62T* LED, 15 Degree Angle Bracket,		0.00	1.50	0.00
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing		0.00	3.20	0.00
0807925	Camera, Pro-Vision, LS Mux, F/F, R, Cameras, MDVR, 4-Tiller		0.00	1.20	0.00
0813095	Lights, Side, WIn M9**S, CCCo, 1st		0.00	3.60	2.40
0815117	Light, Front, WIn IONSM** LED, 1st, CCCo		0.00	0.24	0.16
0821232	Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025		0.00	0.00	20.00
0822288	ABS Wabco Brake System, Single Axle, Tiller, NFPA 1900/ULC		0.00	6.00	0.00
0822612	Wiring, Spare, (1) 20A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st		0.00	0.00	20.00
0823643	Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt		0.00	0.00	10.00
0825385	Lights, Door Interior Flash, 4 Dr Cab, WIn M4*S CCCo		0.00	5.63	0.00
0826299	Lights, Side, WIn TLI* LED, Mtd in Rub Rails, CCCo		0.00	4.92	3.28
0826636	Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 1st,		0.00	0.00	15.00
0829482	Wiring, Spare, (1) 10A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st		0.00	0.00	10.00
0832591	Handlts, Pelican, 9050, 12v DC, B+, Shoulder Strap, Yellow, Qty		0.00	0.00	2.80
0889407	Lights, Side, WIn M6**S, Trm Fet CCCo 1st		0.00	2.70	1.80
0893347	Lights, Cornering, Tiller, TecNiq, E96-WS00-1, 4 lts Ft Sw		0.00	0.00	2.20
0895310	Siren, Federal Q2B		0.00	100.00	0.00
0693551	Lights, Tractor Scene, WIn M9LZC LED, pair	Load Managed	0.00	0.00	12.00
0722038	HVAC, Heavy-Duty, Enforcer, w/X15, CARE	LM - Middle	0.00	0.00	100.00
0723827	Radio, AM/FM/Media Receiver, Pioneer MVH-S720BHS	LM - First	0.00	0.00	10.00
0727540	Spotlight, Golight/RadioRay, Model 20**4GT, LED, 1 Lt	Load Managed	0.00	0.00	3.00
0748793	Lights, WIn, S44M** 44" 12VDC, RS Body	Load Managed	0.00	0.00	21.60
0748795	Lights, WIn, S44M** 44" 12VDC, LS Body	Load Managed	0.00	0.00	21.60
0763610	Lights, WIn, PCPSM2*, Pioneer, 12 VDC, 1st	Load Managed	0.00	0.00	12.00
0776357	Light, Visor, WIn, 12V P*H2* Pioneer, Cnt Feature, 1st	LM - First	0.00	0.00	26.00
0821325	Wiring, Spare, 10 A 12V DC 1st NFPA1900/ULC	Load Managed	0.00	0.00	60.00
0830310	Heater/Defroster, Tiller Cab, Electric, Dual 12V, Badger, 3 Spd,	LM - Middle	0.00	0.00	156.00
0834416	USB, Cab, 4, 12V DC, Dual USB Termination, NFPA1900/ULC	LM - First	0.00	0.00	10.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/24/2025

Bid #: 987 **Job #:**

Desc: San Mateo Consolidated 107 Tiller (Duplicate 38841) **Sales Rep:** Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT **Organization:** Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0002615	Switch, Aerial 12V Master	NFPA	0.08	0.00	0.00
0002758	Amp Draw, NFPA/ULC Radio Allowance	NFPA	5.00	0.00	0.00
0040132	Compt, F/H, Trans Front, Lap, LS Center, Tiller	NFPA	1.80	0.00	1.80
0040145	Compt, F/H, Trans Front, Lap, RS Center, Tiller	NFPA	1.80	0.00	1.80
0059809	Light, Marker, Weldon, 9186-1500 LED, Location	NFPA	0.10	0.00	0.00
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	NFPA	1.60	0.00	0.00
0092582	Load Manager/Sequencer, MUX	NFPA	0.56	0.56	0.00
0534987	Lights, Clearance/Marker/ID, Rear, Truck-Lite 33050R LED 7Lts,	NFPA	0.35	0.00	0.00
0601972	Lights, Turntable Walkway, P25, LED	NFPA	0.35	0.00	0.00
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29	NFPA	0.10	0.90	0.00
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	NFPA	1.26	0.00	0.00
0625210	Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED,	NFPA	0.12	0.00	0.00
0625953	Light, Directional, WIn 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts,	NFPA	0.70	0.70	0.00
0630489	Air Dryer, Bendix, AD-9, With Wet Tank, Heated, Saber	NFPA	7.81	0.00	0.00
0631711	Lights, Clearance/Marker/ID, Front, Truck-Lite 33250Y LED 0.75"	NFPA	0.35	0.00	0.00
0634719	Compt, F/H, Trans Lap, Front Shortened, 79.00" Wide, RS Front,	NFPA	1.80	0.00	1.80
0634723	Compt, F/H, Trans Lap, Front Shortened, 79.00" Wide, LS Front,	NFPA	1.80	0.00	1.80
0646408	Compt, Single Tractor Reservoir, Double Door, F/D LS, 16" Deep	NFPA	1.80	0.00	1.80
0647647	Lights, Dome, FRP Dual LED 4 Lts	NFPA	0.80	0.80	0.00
0648332	Cab, Enforcer, 7010	NFPA	6.80	10.20	0.00
0648630	Lights, Perimeter Cab, TecNiq E10-WS00-1 LED 4Dr, Angled Brkt	NFPA	3.00	0.00	0.00
0665700	Light, Slide-Out Pump Operator Step, Not Required	NFPA	0.65	0.00	0.00
0668061	Light, Do Not Move Apparatus, WIn VTX609R Red LED	NFPA	0.30	0.45	0.00
0725610	Lights, Side Zone Lower, WIn M6*CS, M6*CS, Clear Lens, CCCo	NFPA	3.60	5.40	0.00
0727126	Lights, Rear Zn Lwr, WIn M6**S, For Tail Lt Housing CCCo	NFPA	1.80	2.70	0.00
0729368	Generator, Harrison 4.8kW MSV 120/240V, Hydraulic, Digital Volt,	NFPA	19.30	0.00	0.00
0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT,	NFPA	0.10	0.00	0.00
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free	NFPA	0.50	0.00	0.00
0750472	Lights, Walk Surf, 4-P25 LED, Outboard Walkway Area, Mounted	NFPA	0.56	0.00	0.00
0751507	Ladder Storage, Vertical Hinged Lap Drs, Free Door	NFPA	0.90	0.00	0.90
0755072	Aerial, 107' ASL, 750/500 Tip, 50 MPH Wind, Tiller	NFPA	5.00	0.00	0.00
0759048	Light, Locator, WIn M6** At Tip, Facing Out, PAL/PAP, 2lts	NFPA	1.80	2.70	0.00
0762273	Steps, 4-Door Cab, Dual, 1" Longer Bottom Step, Saber	NFPA	2.14	0.00	0.00
0767535	Light, Turntable Console, TecNiq E-10, LED	NFPA	0.36	0.00	0.00
0780173	Lights, Perimeter, TecNiq E10-WS00-1 6.39" LED	NFPA	0.88	0.00	0.00
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	NFPA	4.20	4.20	0.00
0785993	Light, Boom Support, TecNiq E10-W000-1 LED	NFPA	2.10	0.00	0.00
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	NFPA	2.00	2.00	0.00
0802753	Lights, Tracking, WIn MP** LED, 2lts	NFPA	8.00	0.00	0.00
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw	NFPA	0.83	2.49	0.00
0807413	Lights, Rear, WIn M4**S LED, 1st, CCCo	NFPA	1.50	1.50	0.00
0808503	Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2027,	NFPA	10.00	0.00	0.00
0813525	Lights, Step, P25 LED, Tiller, Control, Trim Feature	NFPA	0.50	0.00	0.00
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX,	NFPA	1.20	0.00	0.00
0814632	Control Stations, ASL Tiller, MUX, Color Display, CL714	NFPA	4.26	0.00	0.00
0815338	Light, Brake/Tail, TecNiq T10-R*00-1 Brk/Tail, Surface	NFPA	0.03	0.26	0.00
0818349	Compt, F/H F/D Front Lap, Center Lift, F/H Rear Lap, 4" Raised	NFPA	3.60	0.00	3.60
0818353	Compt, F/H F/D Front Lap, Center Lift, F/H Rear Lap, 4" Raised	NFPA	3.60	0.00	3.60

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/24/2025

Bid #: 987 **Job #:**

Desc: San Mateo Consolidated 107 Tiller (Duplicate 38841) **Sales Rep:** Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT **Organization:** Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0818615	Cabinet, Rr Fcng, LS, Overhead, 21 W x 10 H x 20 D, Lift,	NFPA	0.11	0.11	0.00
0818619	Cabinet, Rr Fcng, RS, Overhead, 21 W x 10 H x 20 D, Lift, Drop	NFPA	0.11	0.11	0.00
0819650	Tiller Warning Indicators, Seatbelt Warn in Cab, Clr Dis, BI	NFPA	0.51	0.69	0.00
0824946	Light, Traffic Directing, Wln TANF65, 34.00" Long, CTA, CCTL9	NFPA	0.60	1.20	0.00
0827480	Lights, Torque Box Ladder Storage, T/L 44042C 2lts, Amdor AY-	NFPA	2.60	0.00	0.00
0828880	DEF Tank, 9 Gallon, DS Fill, Fwd of Axle, Tiller	NFPA	0.60	11.40	0.00
0832198	Cab, Tiller, 2025	NFPA	1.60	30.40	0.00
0834670	Lightbar, Wln, Frdm D WCX, 81",	NFPA	6.48	13.08	17.19
0834724	Lights, Front Zone, Wln M6**, 2Lts, CCCo	NFPA	2.25	2.25	0.90
0834751	Siren, Aux, Wln CHOWLER Speaker System, CCCo	NFPA	1.50	13.50	0.00
0888060	Lights, Perimeter Body, TecNiq E10-W000-1 4lts, Turntbl/Rr Stp,	NFPA	1.60	0.00	0.00
0888066	Lights, Stabilizer Scene, (1) set, TecNiq E10-W000-1, LED	NFPA	0.80	0.00	0.00
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	NFPA	0.07	0.00	0.00
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	NFPA	1.00	0.00	0.00
0894892	Lights, Rear Zone Up, Wln L31H5FN Beacon, M6RCS Rr 2lts,	NFPA	7.44	4.96	0.00
0647728	Alternator, 430 amp, Delco Remy 55SI	S	0.00	0.00	0.00
0832998	Wiring, Radio Spare, 50 A 12V DC, Batt Dir, 1st NFPA1900/ULC	Mission Critical	50.00	0.00	0.00
Load Totals:			194.96	491.11	597.30

Note: Minimum Continuous Load is in "Blocking Right of Way" mode.(Reference current edition of NFPA 1901)

Note: Intermittent Load items are not factored in on any alternator load comparisons. These items are included on the report for reference only and should be looked at as amp draw exclusion items. (Reference current edition of NFPA 1901)

Note: Total Connected Load "Demand" represents Total Connected Load minus any Load Managed items

Alternator Output at Idle: 254.00

Minimum Continuous Load	
Supply:	254.00
Demand:	194.96
Variance:	59.04

Alternator Output at Governed Speed: 370.00

Total Connected Load	
Supply:	370.00
Demand:	360.06
Variance:	9.94

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply

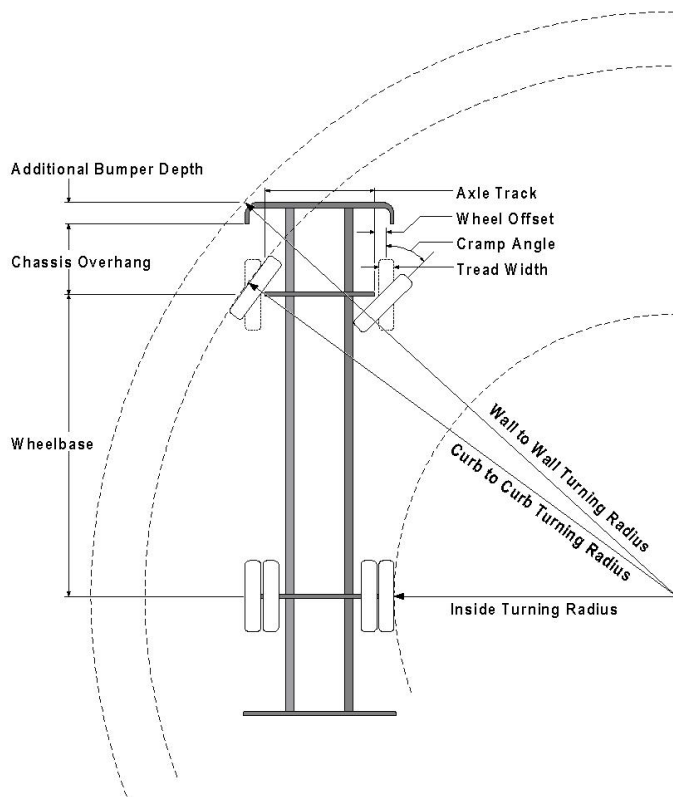


Turning Performance Analysis

07/24/2025

Bid Number: 987
Department: SAN MATEO CONSOLIDATED FIRE DEPT

Chassis: Enforcer Chassis, Tractor (Tiller)
Body: Aerial, Tiller, No Pump, Alum Body



Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	15.9 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	10 in.
Front Overhang:	75.95 in.
Wheelbase:	167 in.

Calculated Turning Radii:

Inside Turn:	12 ft. 10 in.
Curb to curb:	26 ft. 1 in.
Wall to wall:	29 ft. 10 in.

Category	Option	Description
Tires, Front	0802633	Tires, Front, Goodyear, Armor Max MSA, 385/65R22.50, 18 ply, Fire Ser. Load Rtg
Axle, Front, Custom	0630705	Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer
Bumpers	0722252	Bumper, 10" Extended, Stainless, Polished, Saber FR/Enforcer
Aerial Devices	0755072	Aerial, 107" ASL, 750/500 Tip, 50 MPH Wind, Tiller
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot

Notes:

*Actual Inside cramp angle may be less than shown.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:

Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

4 PRODUCT WARRANTIES

Exhibit "C"



Fire and Rescue Apparatus

One (1) Year Material and Workmanship

Basic Apparatus

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Portions of the apparatus manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	Twelve (12) months.
Conditions and Exclusions: See Also Paragraphs 2 thru 4	No specific exclusions apply

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Cummins Warranty

Worldwide

Fire Apparatus/Crash Trucks



Coverage

Products Warranted

This Warranty applies to new diesel Engines sold by Cummins and delivered to the first user on or after April 1, 2007, that are used in fire apparatus truck and crash truck* applications Worldwide.

Base Engine Warranty

The Base Engine Warranty covers any failures of the Engine which result, under normal use and service, from a defect in material or factory workmanship (Warrantable Failure). This Coverage begins with the sale of the Engine by Cummins and ends five years or 100,000 miles (160,935 kilometers), whichever occurs first, after the date of delivery of the Engine to the first user.

Engine aftertreatment components included in the Cummins Critical Parts List (CPL) and marked with a Cummins part number are covered under Base Engine Warranty.

Additional Coverage is outlined in the Emission Warranty section.

These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.

Cummins Responsibilities

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay for reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

Cummins will pay reasonable costs for towing a vehicle disabled by a Warrantable Failure to the nearest authorized repair location. In lieu of the towing expense, Cummins will pay reasonable costs for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging when the repair is performed at the site of the failure.

Owner Responsibilities

Owner is responsible for the operation and maintenance of the Engine as specified in Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Except for Engines disabled by a Warrantable Failure, Owner must also deliver the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items provided during Warranty repairs unless such items are not reusable due to the Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

Owner is responsible for a \$100 (U.S. Dollars) deductible per each service visit under this plan in the 3rd, 4th and 5th years of Base Engine Warranty. The deductible will not be charged during the first 2 years of the Base Engine Warranty.

Limitations

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel



exhaust fluid.

This Warranty does not apply to accessories supplied by Cummins which bear the name of another company. Such non-warranted accessories include, but are not limited to: alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, vacuum pumps, power steering pumps, fan drives and air compressors. Cummins branded alternators and starters are covered for the first two years from the date of delivery of the Engine to the first user, or the expiration of the Base Engine Warranty, whichever occurs first.

Failures resulting in excessive oil consumption are not covered beyond the duration of the Coverage or 100,000 miles (160,935 kilometers) or 7,000 hours from the date of delivery of the Engine to the first user, whichever of the three occurs first. Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Failures of belts and hoses supplied by Cummins are not covered beyond the first year from the date of delivery of the Engine to the first user or the duration of the Warranty, whichever occurs first.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THIS WARRANTY AND THE EMISSION WARRANTY SET FORTH HEREINAFTER ARE THE SOLE WARRANTIES MADE BY CUMMINS IN REGARD TO THESE ENGINES. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Emission Warranty

Products Warranted

This Emission Warranty applies to new Engines marketed by Cummins that are used in the United States** in vehicles designed for transporting persons or property on a street or highway. This Warranty applies to Engines delivered to the first user on or after September 1, 1992.

Coverage

Cummins warrants to the first user and each subsequent purchaser that the Engine is designed, built and equipped so as to conform at the time of sale by Cummins with all U.S. federal emission regulations applicable at the time of manufacture and that it is free from defects in material or factory workmanship which would cause it not to meet these regulations within the longer of the following periods: (A) Five years or 100,000 miles (160,935 kilometers) of operation, whichever occurs first, as measured from the date of delivery of the Engine to the first user or (B) The Base Engine Warranty.

If the vehicle in which the Engine is installed is registered in the state of California, a separate California Emission Warranty also applies.

Limitations

Failures, other than those resulting from defects in material or factory workmanship, are not covered by this Warranty.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Cummins is not responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs or other losses resulting from a Warrantable Failure.

**CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL
OR CONSEQUENTIAL DAMAGES.**

* Airport operated crash trucks and fire department
operated trucks employed to respond to fires,
hazardous material releases, rescue and other
emergency-type situations.

** United States includes American Samoa, the
Commonwealth of Northern Mariana Islands, Guam,
Puerto Rico and the U.S. Virgin Islands.



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R. H. SHEPPARD CO., INC.
101 Philadelphia St.
Hanover, PA 17331
Pierce Manufacturing Inc.
2600 American Drive
Appleton, WI 54912

LIMITED WARRANTY: The R. H. Sheppard Co. Inc., ("Sheppard") warrants all M110PKG1 and M110SAU1 steering gears manufactured and sold to Pierce Manufacturing Inc. ("Pierce") for application on Pierce TAK-4 equipped vehicles to be free from defects of workmanship and material under normal use and service for a period of thirty six months from the in service date of the vehicle to its original owner.

Vehicle applications where Sheppard product is used require an application approval before production build. If Pierce uses Sheppard product for any purpose or application which has not been approved by Sheppard in advance, including aftermarket devices (defined as a device added to the steering system directly or indirectly affecting the performance or operation of the Sheppard product in its approved application) not tested and approved by Sheppard this limited warranty SHALL NOT APPLY AND SHALL BE VOID. SHEPPARD MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED. SHEPPARD EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

SHEPPARD SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES OR FOR LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF A PRODUCT. Pierce expressly acknowledges its obligation to inform all users (customers) of the above disclaimer.

CONDITIONS: Claims under this Limited Warranty may only be made by Pierce. In no event shall Sheppard be held liable for warranty charges by unauthorized persons. No allowance will be made for repairs or alterations, unless made with the written consent of Sheppard. Authorized Pierce dealers shall be the only authorized repair facility for Sheppard products applied to Pierce vehicles. Any warrantable repair made under this Limited Warranty must be made on or before 36 months of the in-service date for the Product to which the claim relates. Sheppard shall not be liable for claims made after such date. Sheppard product fitted to Pierce vehicles that are repaired at a repair facility other than an authorized Pierce dealer within the warranty period will be considered for payment under the guidelines of this agreement only by joint written consideration of Sheppard and Pierce warranty departments. It shall be the responsibility of the Pierce warranty department to notify Sheppard if and when this situation occurs. Sheppard will not be held responsible for damage to other steering components such as but not limited to pumps and reservoirs due to improper adjustment of steering gear relief plungers. Vehicle downtime and towing will not be considered under warranty.

REMEDIES: The sole and exclusive remedy of Pierce for Sheppard's breach of the foregoing warranty is limited to the return and repair or reimbursement as follows:

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 2

Warranty Support: In support of the Pierce dealer network, Sheppard will provide a toll-free "Hotline" service to assist in the diagnosis and troubleshooting of steering problems. The R. H. Sheppard Co., Inc. Field Service Department can be reached at 1-800-274-7437 for assistance. Sheppard will require that Pierce dealers contact this toll-free "Hotline" for approval before product is removed from a vehicle in a warranty situation. When contacted regarding a warranty situation, the Sheppard representative will provide an authorization number for removal of the product. This Returned Goods Authorization (RGA) number must be included in all warranty correspondence and attached to all returned goods.

Procedure: In the event of a warranty situation, the servicing dealer shall contact the Sheppard Hotline and receive an RGA number before replacing any steering gear. For M110PKG1 and M110SAU1 steering gear models, the dealer will first obtain an RGA number from Sheppard, and then order the replacement gear from Pierce. Replacement M110PKG1 and M110SAU1 steering gears shall be shipped from Pierce once those models are in full production. A warranty claim for both parts and labor will then be generated by the dealer and sent to Pierce. After reviewing the claim, Pierce will submit it to Sheppard for reimbursement.

Parts Reimbursement: Sheppard agrees to reimburse Pierce at Pierce's purchase price plus 30% mark-up for parts found to be defective within the warranty period. Parts being returned for warranty consideration shall be sent to the R. H. Sheppard Company, 447 E. Middle St., Hanover, PA 17331 ATTN: Warranty Dept. Sheppard's determination as to whether the part is covered by the foregoing warranty is final and conclusive. Sheppard requires the return of complete steering gears only. Individual seals replaced under warranty **should not** be returned unless specifically requested by Sheppard. All parts being returned for warranty consideration must be clearly tagged with all pertinent warranty information including, but not limited to (1) Returned Goods Authorization number (RGA); (2) claim number; (3) date in service; (4) date of failure; (5) mileage; (6) part number; (7) labor hours; (8) dealer labor rate and; (9) dollar amount claimed. Claims submitted without prior authorization are subject to rejection under this agreement.

Labor: Labor to repair Sheppard product found to be defective within the warranty period will be reimbursed at not more than 10 hours per vehicle. Labor shall be reimbursed at the rate of \$85.00 USD per hour for M110PGK1 and M110SAU1 steering gears.

Freight: Pierce will collect M110PGK1 and M110SAU1 warranty material at a designated collection point. Inbound freight to the Pierce collection point will be the responsibility of Pierce. All warranty material should be returned from the Pierce collection point to R. H. Sheppard Co. Freight Collect by a Sheppard-specified common carrier based on location of the Pierce collection point. Sheppard does not require the return of failed seals. Any freight charges incurred for the return of seals will be the responsibility of Pierce. Parts returned for warranty consideration without prior authorization are subject to rejection under this agreement and may be subject to a charge back of inbound freight charges. Parts rejected under this warranty will be returned to Pierce Freight Collect or scrapped by Sheppard at Pierce's discretion.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 3

Outside Purchases: Pierce authorized dealers shall be the only outlet for repair, warranty service and parts for Sheppard products applied to Pierce vehicles. Sheppard will not be responsible for consumables such as hoses, belts, fluids, fittings or miscellaneous shop material that may be required for the repair of the product.

Warranty Documentation: Warranty credit memos will be issued monthly to the Pierce Warranty Department. Monthly credit memos will include (1) claim number; (2) part number; (3) parts reimbursement; (4) labor reimbursement; (5) any applicable Pierce reference number and; (6) reason for rejection or acceptance of the claim. Credit memos will be issued in U.S. funds. Debits for warranty claims will not be accepted under this agreement. Claim disposition will constitute the final and conclusive resolution of warranty claims.

Parts Retention: Sheppard will retain parts submitted for warranty consideration for a period of sixty (60) days for any material found to be rejected for warranty. Sheppard will notify Pierce within sixty (60) days of receipt of Sheppard's determination as to whether any such part is covered by this warranty. Warranty reimbursement will be issued within thirty days of receipt of material at Sheppard.

Good-Will Requests: Good-Will requests will be considered jointly between Sheppard and Pierce for equitable compensation.

RECALLS: Sheppard retains the right to review information regarding federal motor vehicle recall and /or product repair programs if Sheppard products fitted to Pierce vehicles are alleged to be non-compliant with federal motor vehicle safety standards. Sheppard retains the right to review any claims of product defect or non-compliance before participating in reimbursement of expenses incurred as a result of alleged non-compliance or defect of its products. Sheppard agrees to negotiate in good faith for the reimbursement of expenses incurred by Pierce for all administrative, material and labor cost and expense associated with any recall where Sheppard product is found to be defective or non-compliant with federal motor vehicle standards.

MISCELLANEOUS: This writing constitutes the full complete and final statement of Sheppard's limited warranty for M110PKG1 and M110SAU1 products sold to Pierce. All prior oral or written correspondence, test data, negotiations, representations, understandings and the like regarding products are merged in this writing and extinguished by it. This limited warranty may not be altered, amended extended or modified except by a writing signed by the President or Vice President of Sheppard. No employee, vendor, dealer, distributor or other representative of Sheppard has authority to make statements to extend, expand, alter or amend the terms of this Limited Warranty. Sheppard expressly disclaims any statements contrary to the Limited Warranty. Sheppard's failure at any time to enforce any of the terms and conditions stated herein shall not constitute a waiver of any provisions herein. This Limited Warranty shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 4

Any legal actions which may arise as a result of disputes, controversies or claims arising out of or related to this limited warranty shall be in such forum as Sheppard and Pierce shall agree, or, in the absence of agreement, in a court of appropriate jurisdiction other than in the county in which either party is located. This Limited Warranty shall not be assigned by Pierce.

COOPERATIVE EFFORT: Sheppard and Pierce agree to work cooperatively toward expanding this warranty coverage to a period of sixty months from the in service date. These cooperative efforts shall focus on examining the effects of increased heat generated by 2007 model engines and its impact on the entire power steering system.

AGREEMENT: This agreement is effective April 3, 2006 and may be modified by mutual agreement between Sheppard and Pierce of a signed amendment to be attached to the original Limited Warranty. There are no third party beneficiaries to this Limited Warranty. This warranty agreement applies to Pierce authorized dealers only. It does not encompass any special arrangements that Pierce may now have or that Pierce may enter into, with any other segments of the trucking industry. This warranty agreement does not apply to non-conforming product removed at Pierce assembly plants.

This Limited Warranty agreement between the R. H. Sheppard Co., Inc and Pierce Manufacturing Inc. may be terminated by either party with thirty days written notice prior to termination.

Signed at Pierce Manufacturing Inc., Appleton, WI this _____ day of _____, 2006.

R. H. SHEPPARD CO., INC.

PIERCE MANUFACTURING INC.

Authorized Signature

Authorized Signature

Title

Title



Fire and Rescue Apparatus

Lifetime Fifty (50) Year Structural Integrity

Custom Chassis Frame

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	Custom chassis frame rail manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Fifty (50) Years (Expected Life of Apparatus)
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies to the frame rails only, crossmembers are excluded. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship TAK-4 Independent Front Suspension

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The TAK-4 Front Independent Suspension and Steering Gears shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years -or- 30,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty excludes brake pads, brake rotors, seal boots and shock absorbers.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

SUPPLIER

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	The Meritor axle shall be covered by Meritor as indicated in the attached Meritor warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor warranty description shall apply.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

CUMMINS-MERITOR COMMERCIAL VEHICLE SYSTEMS WARRANTY

COVERAGE FOR THE
UNITED STATES AND CANADA
MODEL YEAR 2024 VEHICLES



Meritor

WARRANTY INFORMATION

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How to Read Warranty Coverage

Number of Years	Mileage (in thousands) Unl = Unlimited	P = Parts Only P&L = Parts and Labor

Notice:

Models or components that are approved for use by Cummins-Meritor's vocational guidelines contained in Cummins-Meritor publication TP-9441 for axles, SP-8320 for trailer axles and TP-12126 for drivelines, or any other products that have an application approval completed with Cummins-Meritor which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Unl/P).

Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles, parts only (1/Unl/P).

Advantage Program

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting **meritor.com** or by contacting Cummins-Meritor at **866-OnTrac1 (866-668-7221)**.

LINEHAUL WARRANTY INFORMATION

Vocational Definition of Linehaul

- Long distance hauling of food, goods and finished materials
- Not included are raw ferrous materials, minerals (except oil), sand, gravel, stone, rocks, topsoil, waste or logs
- Linehaul includes turnpike and hub & spoke

Linehaul Vehicles

- Auto Hauler¹
- Bulk Hauler¹
- Chip Hauler^{1,2}
- Doubles
- Flatbed
- General Freight
- Grain Hauler¹
- Livestock Hauler
- Moving Van
- Pipe Hauler
- Refrigerated Freight
- Tanker¹
- Triples

¹ Cummins-Meritor classifies these vehicle types as high center of gravity, which require special axle housing considerations.

² Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.

Linehaul Typically Is:

- High mileage operation (over 60,000 miles/year)
- Greater than 30 miles between starts and stops
- Maximum grades of 12%
- Well maintained highways of concrete or asphalt construction (100% on-road)

- Category A job sites, terminals, docks and transfer sites (defined as pavement, concrete or maintained and hard packed gravel).

Note: Category B job sites, terminals, docks, transfer sites (defined as loose or unmaintained sand, dirt or gravel; landfill; farm field; mud; or other similar surfaces) are **NOT** approved for certain linehaul axle models.

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/750/P&L

FD-965	MFS-10-144A-N	MFS-12-143A-N	MFS-13B-132B-N	MFS-14G-132B-N
FF-941	MFS-12-122A-N	MFS-12E-143A-N	MFS-13B-132C-N	MFS-14-132C-N
FF-942	MFS-12-122B-N	MFS-12-144A-N	MFS-14-122A-N	MFS-14F-132C-N
FF-943	MFS-12-122C-N	MFS-13-122A-N	MFS-14-122B-N	MFS-14G-132C-N
FF-944	MFS-12E-122A-N	MFS-13-122B-N	MFS-14F-122B-N	MFS-14-142B-N
FF-961	MFS-12E-122B-N	MFS-13-122C-N	MFS-14G-122B-N	MFS-14F-142B-N
FF-966	MFS-12E-122C-N	MFS-13-132B-N	MFS-14-122C-N	MFS-14G-142B-N
FF-967	MFS-12-124A-N	MFS-13-132C-N	MFS-14F-122C-N	MFS-14-142C-N
FG-941	MFS-12-132B-N	MFS-13-143A-N	MFS-14G-122C-N	MFS-14F-142C-N
FG-943	MFS-12-132C-N	MFS-13-144A-N	MFS-14-124A-N	MFS-14G-142C-N
MFS-10-122A	MFS-12E-132B-N	MFS-13B-122B-N	MFS-14-132B-N	MFS-14-143A-N
MFS-10-143A-N	MFS-12E-132C-N	MFS-13B-122C-N	MFS-14F-132B-N	MFS-14-144A-N

Rear Drive Single Axles – 5/750/P&L

MS-19-14X	MS-23-17H ^{1,2}	RS-23-160	RS-23-185
RS-21-160	MS-23-17X ²	RS-23-161	RS-23-186

¹ Not approved for use in any Category B job sites, terminals, docks or transfer sites.

² Recommend 11 mm minimum wall thickness for these models used in combination with high center of gravity vehicles and trailing arm suspensions or vehicles operating mainly in Canada.

LINEHAUL WARRANTY INFORMATION

Rear Drive Tandem/Tridem Axles – 5/750/P&L

RT-40-160/P ^{1,2}	RZ-166 ²	MA-40-17H ³	MT-34-14X/P ⁴	MT-40-14X/P ⁴
RT-46-160/P ^{1,2}	RT-50-160/P ^{1,2}	RZ-188	MT-40-14T/P	MT-40-14H/E ^{3,4}
RT-46-164/P ^{1,2}	MA-40-165	MA-40-175	MT-40-14X/P ⁴	

¹ These models required for Chip Hauler and Linehaul warranty consideration.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

³ Not approved for use in any Category B job sites, terminals, docks or transfer sites.

⁴ Recommend 11 mm minimum wall thickness for these models used in combination with high center of gravity vehicles and trailing arm suspensions or vehicles operating mainly in Canada.

Trailer Axles¹

Beam and Brackets	5/500/P, 1/100/L
TPX3000 Axle Series ²	10/Unl/P, 1/Unl/L
Wheel End Systems ³	
Standard System ⁴	1/100/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁵	7/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² Structural components only excluding spindle wear. Spindle wear is 5/Unl/P, 1/Unl/L.

³ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁴ When installed by Cummins-Meritor.

⁵ When specified with AxlePak7 wheel end system, coverage on Meritor Tire Inflation System (MTIS) thru-tee and stator is 7/Unl/P, 1/Unl/L.

TAG/Pusher Axles¹

TQ, TR Beam and Brackets	5/750/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

Trailer Mechanical Suspension Systems¹

IMS40 (Integrated Mechanical Suspension – Tandem) ²	1/Unl/P&L
IMS20 (Integrated Mechanical Suspension – Single) ²	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

Trailer Air Suspension Systems

MPA40 (Tandem Axle Parallelogram) ¹	
Major Structural Components	5/500/P, 1/100/L
Curbing Damage Warranty ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L
MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ Fastener torque coverage is limited to 2/Unl/P&L when torqued by Cummins-Meritor (For axle and ABS coverage, refer to appropriate product warranties.)

² "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding sub-frame consisting of the frame rails, cross-members and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

LINEHAUL WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	5/500/P, 1/100/L
Q+ Drum Brake™ ¹	5/500/P, 1/Unl/P&L
ASA	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ²	12-Years or Wearable Life/P
EX+ L and EX+LS Air Disc Brake™ ³	5/500/P, 1/Unl/L
EX+L Air Disc Brake Extended Standard Warranty ^{3,4}	5/500/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III.

² Based on stamped wear diameter max.

³ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.
Warranty coverage for pads is 1/100/P.

⁴ Applies only to calipers using friction: MA9300 (EX225LXXXCGXXX).

Drivelines

RPL	5/500/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
92N	1/Unl/P

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

GENERAL SERVICE WARRANTY INFORMATION

General Service Vehicles

- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler
- Cross Country Coach
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Newspaper Delivery
- Pick-Up and Delivery
- Pipe Hauler
- Platform Auto Hauler
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Trailer
- Tour Bus
- Wrecker

General Service Typically Is:

- Typically, moderate mileage operation (less than 60,000 miles/year)
- An average of 3 to 30 miles between starts and stops
- Maximum grades of 12%
- Generally, on-road service (less than 10% off-road allowed)
- Category A job sites, terminals, docks and transfer sites (defined as pavement, concrete or maintained and hard packed gravel) or Category B job sites, terminals, docks and transfer sites (defined as loose or unmaintained sand, dirt or gravel; landfill; farm field; mud, or other similar surfaces)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-7-113C-N	MFS-12-132C-N	MFS-14G-122B-N	MFS-16-122A-N
FF-941	MFS-7-153C-N	MFS-12E-132C-N	MFS-14-122C-N	MFS-16-133A-N
FF-942	MFS-7-163C-N	MFS-12-143A-N	MFS-14F-122C-N	MFS-16-135A-N
FF-943	MFS-8-113B-N	MFS-12-144A-N	MFS-14G-122C-N	MFS-16-143A-N
FF-944	MFS-8-143A-N	MFS-12E-143A-N	MFS-14-124A-N	MFS-18-133A-N
FF-946	MFS-8-153B-N	MFS-13-122A-N	MFS-14-132B-N	MFS-18-135A-N
FF-961	MFS-8-163B-N	MFS-13-122B-N	MFS-14F-132B-N	MFS-18-193A-N
FF-966	MFS-10-122A	MFS-13B-122B-N	MFS-14G-132B-N	MFS-20-133A-N
FF-967	MFS-10-143A-N	MFS-13-122C-N	MFS-14-132C-N	MFS-20-135A-N
FG-941	MFS-10-144A-N	MFS-13B-122C-N	MFS-14F-132C-N	MFS-20-192A-N
FH-941	MFS-12-122A-N	MFS-13-132B-N	MFS-14G-132C-N	MFS-20-193A-N
FH-946 ¹	MFS-12E-122A-N	MFS-13-132C-N	MFS-14-142B-N	MFS-22-135A-N
FL-941	MFS-12-122B-N	MFS-13B-132B-N	MFS-14F-142B-N	MFS-22H-135A-N
FL-943	MFS-12E-122B-N	MFS-13B-132C-N	MFS-14G-142B-N	MFS-22-193A-N
MFS-6-151A-N	MFS-12-122C-N	MFS-13-143A-N	MFS-14-142C-N	MFS-22H-193A-N
MFS-6-153B-N	MFS-12E-122C-N	MFS-13-144A-N	MFS-14F-142C-N	
MFS-6-162B-N	MFS-12-124A-N	MFS-14-122A-N	MFS-14G-142C-N	
MFS-6-153C-N	MFS-12-132B-N	MFS-14-122B-N	MFS-14-143A-N	
MFS-6-162C-N	MFS-12E-132B-N	MFS-14F-122B-N	MFS-14-144A-N	

¹ Can also be used with reduced steer angles in tag position in Coach applications.

GENERAL SERVICE WARRANTY INFORMATION

Rear Drive Single Axles – 2/Unl/P&L

MS-17-13X	MS-21-14X	RC-23-162 ¹	RS-23-186	MS-26-616-SP
MS-17-14X	MS-23-17X	RC-23-165 ¹	RS-24-160	RS-30-185
MS-19-13X	RS-21-160	RS-23-160	RC-25-160	MS-30-616
MS-19-14X	RC-23-160	RS-23-161	RS-26-185	MS-30-616-SP
MS-21-13X	RC-23-161	RS-23-185	MS-26-616	RS-35-380

¹ 3/Unl/P&L if PreSet by Cummins-Meritor.

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-44-14X/P	RT-52-185 ¹	MT-70-380
MT-40-14T/P	RT-46-169	MT-58-616	RZ-188
MT-40-14X/P	MT-52-616	RT-58-185 ¹	

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P	RT-46-160/P	RT-46-164/P	RT-50-160/P	RZ-166

Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A

Brake Components

Cam Q Series Trailer Brakes ¹	3/Unl/P, 1/Unl/L
Cam P ²	2/200/P
Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ^{1,2}	2/200/P&L
ASA	3/Unl/P
ASA ²	2/200/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ³	12-Years or Wearable Life/P
EX+ Air Disc Brake™ ⁴	2/Unl/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III or Chassis Protect.

² Applies to Tour Bus and Cross Country Coach only.

³ Based on stamped wear diameter max.

⁴ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.

Drivelines

RPL	4/400/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
92N	1/Unl/P

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

GENERAL SERVICE WARRANTY INFORMATION

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
TPX4000 Axle Series ³	10/Unl/P, 1/Unl/L
Wheel End Systems ⁴	
Standard System ⁵	1/Unl/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁶	7/Unl/P&L
AxlePak10 ⁷	10/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Structural components only excluding spindle wear. Spindle wear 5/Unl/P, 1/Unl/L.

⁴ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁵ When installed by Cummins-Meritor.

⁶ When specified with AxlePak7 wheel end system, coverage on Meritor Tire Inflation System (MTIS) thru-tee and stator is 7/Unl/P, 1/Unl/L.

⁷ AxlePak10 is limited to Intermodal Chassis applications equipped with TPX4000 series axles.

TAG/Pusher Axles¹

TQ, TR Beam and Brackets	3/Unl/P, 1/Unl/L
MC14002, MC16003, FH946 ²	2/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 3/Unl/P&L if sold with PreSet by Cummins-Meritor.

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

Trailer Mechanical Suspension Systems¹

IMS40 (Integrated Mechanical Suspension – Tandem) ²	1/Unl/P&L
IMS20 (Integrated Mechanical Suspension – Single) ²	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

Trailer Air Suspension Systems¹

MPA40 (Tandem Axle Parallelogram) ²	
Major Structural Components	5/Unl/P, 1/Unl/L
Curbing Damage Warranty ³	5/500/P, 1/100/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
PinLoc Air Controls	1/Unl/P&L
PinLoc Actuator	3/Unl/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings ⁴	5/Unl/P, 3/Unl/L
Shock Absorbers	2/Unl/P&L
Lift Kit System	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Fastener torque coverage is limited to 2/Unl/P&L when torqued by Cummins-Meritor.

³ "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding sub-frame, consisting of the frame rails, cross-members and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

⁴ Raw wood applications 3/Unl/P, 1/Unl/L

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Heavy Service/Specialty Vehicles

- Airport Rescue Fire Fighting (ARFF)
- Airport Shuttle¹
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Mixer
- Demolition
- Drill Rig
- Dump
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Train
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rear Loader (Refuse)
- Recycling Truck
- Residential Pick-Up (Refuse)
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus¹
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Utility Truck
- Winch Truck

¹ Commercial chassis only

Heavy Service/Specialty Vehicle Typically Is:

- Moderate mileage operation (less than 60,000 miles per year)
- On/off-road vocations (10% or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)
- An average of three (3) miles between starting and stopping

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-7-113C-N	MFS-12E-132C-N	MFS-14G-122B-N	MFS-16-122A-N
FF-941	MFS-7-153C-N	MFS-12-143A-N	MFS-14-122C-N	MFS-16-133A-N
FF-942	MFS-7-163C-N	MFS-12-144A-N	MFS-14F-122C-N	MFS-16-135A-N
FF-943	MFS-8-113B-N	MFS-12-155	MFS-14G-122C-N	MFS-16-143A-N
FF-944	MFS-8-153B-N	MFS-13-122	MFS-14-124A-N	MFS-18-133A-N
FF-946	MFS-8-163B-N	MFS-13-122B-N	MFS-14-132B-N	MFS-18-135A-N
FF-961	MFS-10-122A	MFS-13B-122B-N	MFS-14F-132B-N	MFS-18-192A-N
FF-966	MFS-10-143A-N	MFS-13-122C-N	MFS-14G-132B-N	MFS-18-193A-N
FF-967	MFS-10-144A-N	MFS-13B-122C-N	MFS-14-132C-N	MFS-20-133A-N
FG-941	MFS-12-122	MFS-13-132B-N	MFS-14F-132C-N	MFS-20-135A-N
FG-943	MFS-12E-122	MFS-13B-132B-N	MFS-14G-132C-N	MFS-20-192A-N
FH-941	MFS-12-122B-N	MFS-13-132C-N	MFS-14-142B-N	MFS-20-193A-N
FH-946	MFS-12E-122B-N	MFS-13B-132C-N	MFS-14F-142B-N	MFS-22-135A-N
FL-941	MFS-12-122C-N	MFS-13-143A-N	MFS-14G-142B-N	MFS-22H-135A-N
FL-943	MFS-12E-122C-N	MFS-13-144A-N	MFS-14-142C-N	MFS-22-193A-N
MFS-6-151A-N	MFS-12-124A-N	MFS-13-155	MFS-14F-142C-N	MFS-22H-193A-N
MFS-6-153B	MFS-12-132B-N	MFS-14-122	MFS-14G-142C-N	RF-16-145
MFS-6-162B	MFS-12E-132B-N	MFS-14-122B-N	MFS-14-143A-N	RF-21-160
MFS-6-162C	MFS-12-132C-N	MFS-14F-122B-N	MFS-14-144A-N	

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Front Drive Steer Axles – 2/Unl/P&L

MX-10-120	MX-12-120 EVO	MX-16-120	MX-19-140	MX-23-160
MX-10-120 EVO	MX-14-120	MX-18-120	MX-21-140	MX-23-810
MX-12-120	MX-14-120 EVO	MX-17-140	MX-21-160	

Front Drive Steer Axles – 1/Unl/P&L

MX-08-130-FV (FSD-08A)	MX-14-130-FV (FSD-14A)	MX-20-130-FV (FSD-20A)	MX-23-130-SD (SDA-2300)
MX-10-130-FV (FSD-10A)	MX-16-130-FV (FSD-16A)	MX-21-130-FV (FSD-21A)	
MX-12-130-FV (FSD-12A)	MX-18-130-FV (FSD-18A)	MX-21-130-SD (SDA-2100)	
MX-13-130-FV (FSD-13A)	MX-18-130-SD (SDA-1800)	MX-23-130-FV (FSD-23A)	

Rear Drive Axles – 2/Unl/P&L

MS-17-14X	RH-23-160	RS-23-186/380	MS-26-616-SP	RS-30-185/380
MS-19-14X	RS-23-160	RS-24-160	RS-26-185/380	MS-35-380
MS-21-14X	RC-23-161	RC-25-160	RC-26-633	RS-38-380
RS-21-160	RS-23-161	RS-25-160	MS-30-616	MT-58-616
RC-23-160	RS-23-185	MS-26-616	MS-30-616-SP	MT-58-616-SP

Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-44-14X/P	MT-52-616	MT-58-616	RT-70-380
MT-40-14T/P	RT-46-169	MT-52-616-SP	MT-58-616-SP	MT-70-380
MT-40-14X/P	RT-58-160	RT-52-185/380 ^{1,2}	RT-58-185/380 ^{1,2}	RZ-188

¹ Axle model designated will vary according to options and variations specified on these axles. Contact Cummins-Meritor Axle Applications Engineering for details.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P/A ³	RT-46-160/P/A ^{1,3}	RT-46-164/P ^{2,3}	RT-50-160/P/A ³	RZ-166

¹ U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

² Axle model designated will vary according to options and variations specified on these axles. Contact Cummins-Meritor Axle Applications Engineering for details.

³ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Drivelines

RPL	3/Unl/P, 1/Unl/P&L
92N	1/Unl/P&L
MXL	1/Unl/P&L

Transmission – 1/Unl/P&L

FAT 30

Brake Components

Cam P	3/Unl/P
Cam P	2/100/P
Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™ ¹	3/Unl/P&L
Q+ Drum Brake™ ²	2/100/P&L
ASA	3/Unl/P
ASA ²	2/100/P
Hubs/Cast Drums and Other Wheel-End Components ³	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ⁴	2/100/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III.

² Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

³ Based on stamped wear diameter max.

⁴ Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P. Warranty coverage for pads is 1/100/P.

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3124 (T-2119)	MTC-3312-FV (TC-270)
MTC-3106-FV (TC-137)	MTC-3203	MTC-3220-FC (TC-142)
MTC-3111 (T-2111)	MTC-3205-GV (MTC-25/RTC-25)	MTC-4206-FV (TC-38)
MTC-3112-CV (548C)	MTC-3206-FV (TC-237)	MTC-4208
MTC-3116 (T-2111 through-shaft)	MTC-3206-CS (544)	MTC-4210
MTC-3118-FV (TC-180 and TC-180-23)	MTC-3208-GV (RTC-50)	MTC-4213
MTC-3118-CV (358)	MTC-3209-GV (MTC-60/RTC-60)	
MTC-3120-FV (TC-143)	MTC-3212-CV (315 and 548B)	

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
Wheel End Systems ³	
Standard System ⁴	1/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁴ When installed by Cummins-Meritor.

Trailer Air Suspension Systems¹

MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings ²	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Raw wood applications 3/Unl/P, 1/Unl/L

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

FIRE AND EMERGENCY WARRANTY INFORMATION

Fire and Emergency Vehicles

- Aerial Ladder Truck ■ Ambulance ■ Crash Fire Rescue ■ Rapid Intervention ■ Tanker
- Aerial Platform ■ Command Vehicle ■ Pumper Vehicle (RIV)

Fire and Emergency Typically Is:

- Lower mileage operations (less than 20,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/Unl/P&L

FL-941	MFS-18-135A-N	MFS-20-135A-N	MFS-22H-135A-N
FL-943	MFS-18-193A-N	MFS-20-193A-N	MFS-22-193A-N
MFS-18-133A-N	MFS-20-133A-N	MFS-22-135A-N	MFS-22H-193A-N

Front Drive Steer Axles – 2/Unl/P&L

MX-19-140	MX-21-140	MX-21-160	MX-23-160	MX-23-810

Rear Drive Single Axles – 5/Unl/P&L

RC-23-160	RS-23-185	RC-25-160	RS-35-185 ¹
RS-23-160	RS-23-186	RS-26-185	RS-25-160
RS-23-161	RS-24-160	RS-30-185	

¹ 2/Unl/P&L if PreSet by Cummins-Meritor.

Rear Drive Tandem/Tridem Axles – 5/Unl/P&L

MT-40-14X/P	RT-46-160/P	RT-50-160/P	MT-58-616
RT-40-160/P	RT-46-164/P	MT-52-616	RT-58-185 ¹
MT-44-14X/P	RT-46-169	RT-52-185 ¹	MT-70-380 ²

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

² 2/Unl/P&L

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3124 (T-2119)	MTC-3220-FC (TC-142)
MTC-3106-FV (TC-137)	MTC-3206-FV (TC-237)	MTC-4206-FV (TC-38)
MTC-3111 (T-2111 through-shaft)	MTC-3206-CS (544)	MTC-4208
MTC-3112-CV (548C)	MTC-3208-GV (RTC-50)	MTC-4210
MTC-3118-FV (TC-180 and TC-180-23)	MTC-3209-GV (MTC-60/RTC-60)	MTC-4213
MTC-3118-CV (358)	MTC-3212-CV (315 and 548B)	
MTC-3120-FV (TC-143)	MTC-3312-FV (TC-270)	

FIRE AND EMERGENCY WARRANTY INFORMATION

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake™ ¹	2/Unl/P&L

¹ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.
Warranty coverage for pads is 1/100/P.

Drivelines

RPL	4/400/P, 1/Unl/L
MXL	3/350/P, 1/Unl/L
92N	1/Unl/P

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

TRANSIT BUS WARRANTY INFORMATION

Transit Bus Vehicles

- Airport Shuttle ▪ Commuter Coach ▪ Transit Bus ▪ Trolley
- City Bus ▪ Shuttle Bus

Transit Bus Typically Is:

- Moderate mileage operation (less than 50,000 miles per year)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/300/P&L

FH-946	FH-941 ¹	MFS-12-155	MFS-13-155

¹ Commuter coach only – 2/Unl/P&L

Rear Drive Single Axles – 5/300/P&L

RS-23-160	71163	RC-23-162 ¹	RS-21-160
RC-23-161	79163	RC-23-165 ¹	

¹ Commuter coach only – 2/Unl/P&L

Tag Axles – 2/Unl/P&L

MC-14002	MC-16003	FH-946

Center Non-drive Axles – 5/300/P&L

MC-26000	71063	79063

Gearboxes – 1/Unl/P&L

MGX-450	MGX-451	MGX-538

Brake Components

Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™ ¹	2/100/P&L
ASA ¹	2/100/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ²	2/100/P&L

Drivelines

RPL	3/Unl/P, 1/Unl/L
92N	1/Unl/P&L
MXL	1/Unl/P&L

¹ Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

² Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P.
Warranty coverage for pads is 1/100/P.

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Industrial and Off-Highway Service Vehicles

▪ Load-On/Load-Off	▪ Trailer Spotter	▪ Material Handling	▪ Fertilizer Spreader	▪ Loader
▪ Port Tractor	▪ Yard Jockey	▪ Specialized Heavy	▪ Snow Blower	▪ Tow Tractor
▪ Rail Yard Spotter	▪ All and Rough	▪ Haul	▪ Mining and	▪ Pushback Tractor
▪ Roll-On/Roll-Off	▪ Terrain Cranes	▪ Excavator	▪ Specialized Mining	
▪ Stevedoring Tractor	▪ Forestry	▪ Compactor	▪ Rail Car Mover	

Industrial and Off-Highway Service Typically Is:

- Low mileage operation
- Low speed vehicle speed restriction
- Vehicles are not typically licensed for highway use
- Six (6) starts/stops per mile (typical)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 1/Unl/P

FF - 941	FG - 941	FN - 951	MFS-20-192A-N	MFS-22-193A-N
FF - 943	FG - 943	FS-25	MFS-20-193A-N	MFS-22H-193A-N
FF - 961	FL - 941	MFS-20-133A-N	MFS-22-135A-N	MON-ZO FAMILY
FF - 966	FL - 943	MFS-20-135A-N	MFS-22H-135A-N	

Rear Drive Axles – 1/Unl/P

MT-14X ¹	RS-23-380	RS-30-185	RT-145 ¹
RS-23-186	RS-24-160	RS-30-380	RT-160 ¹

¹ 2/Unl/P for LO/LO Terminal Tractor applications

Planetary Axles – 1/Unl/P

MOB	MOE	MOH	MOT	MOZ
MOC	MOF	MOR	MOX	
MOD	MOG	MOS	MOY	

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3118-FV (TC-180 and TC-180-23)	MTC-3208-GV (RTC-50)
MTC-3106-FV (TC-137)	MTC-3118-CV (358)	MTC-3209-GV (MTC-60/RTC-60)
MTC-3111 (T-2111 through-shaft)	MTC-3120-FV (TC-143)	MTC-3220-FC (TC-142)
MTC-3112-CV (548C)	MTC-3124 (T-2119)	
MTC-3116 (T-2111)	MTC-3206-FV (TC-237)	

Drivelines – 1/Unl/P

RPL	MXL

Transmission – 1/Unl/P&L

FAT 30

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P

TERMS AND CONDITIONS

Coverage Exclusions

Product Description

All

The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine Cummins-Meritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.

For axle assemblies supplied by Cummins-Meritor with suspension and interface brackets designed and/or attached by non-Cummins-Meritor parties, Cummins-Meritor warranty coverage does not apply to the brackets, bracket attachment methods and field issues caused by brackets or bracket attachments to any covered component unless specified in a separate OEM agreement.

Front Axles¹

Linehaul — King Pin Bushings 1yr/Unl P&L
All Other Vocations — King Pin Bushings Excluded

¹ King Pin Bushing wear excluded for all vocations.

Rear Axles

Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Eaton.

ASA

Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.

Cam Brake

Brake lining wear and brake shoe “rust-jacking.”

Disc Brake

Pad wear, rotor wear.

Coverage Limitations

Product Description

All

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program. Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your Cummins-Meritor representative for specific details.

Front Axles

Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Cummins-Meritor.

Rear Axles

Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by Cummins-Meritor. If yoke is not installed by Cummins-Meritor, then Cummins-Meritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Cummins-Meritor.

Rear Axles

The Cummins-Meritor breather part number A-2297-C-8765 with A-3196-J-1336 hose must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axles.

Cam Brake

Limited to bracket, brake spider and camshaft structural integrity.

STEELite X30

Wearable life is up to the discard diameter of the drum.

Terms and Conditions

(1) What is Covered by this Commercial Warranty?

Meritor Heavy Vehicle Systems, LLC warrants to the owner (“Owner”) that the components listed in this publication, which have been installed by an Original Equipment Manufacturer (“OEM”) as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM’s vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner or the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see Cummins-Meritor publication Maintenance Manual Number 1 and the applicable Cummins-Meritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

TERMS AND CONDITIONS

(2) Designation of Vocational Use Required

To obtain warranty coverage, each Owner must notify Cummins-Meritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the Cummins-Meritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with Cummins-Meritor directly. Failure to notify Cummins-Meritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify Cummins-Meritor as to the intended vocational use of the vehicle. This notification can be sent directly to Cummins-Meritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under Cummins-Meritor's warranty requires that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

(3) What is the Cost of this Warranty?

There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty?

This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage or vocation from that which was originally approved by Cummins-Meritor), (II) accident, natural disaster, abuse or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the axle and/or driveline capacity) or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals or lube levels). This warranty does not cover any component or part that is not branded by Cummins-Meritor. **For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/Unl/P) will apply.**

(5) Remedy

The exclusive remedy under this warranty shall be the repair or replacement of the defective component at Cummins-Meritor's option. Cummins-Meritor reserves the right to require that all applicable failed materials are available and/or returned to Cummins-Meritor for review and evaluation.

(6) Disclaimer of Warranty

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

(7) Limitation of Remedies

In no event shall Cummins-Meritor be liable for special, incidental, indirect or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes or any other losses or costs resulting from a defective covered component.

(8) To Obtain Service

If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either Cummins-Meritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized Cummins-Meritor service location. The dealer will inspect the vehicle and contact Cummins-Meritor for an evaluation of the claim. When authorized by Cummins-Meritor, the dealer will repair or replace during the term of this warranty any defective Cummins-Meritor component covered by this warranty.

(9) Entire Agreement

This is the entire agreement between Cummins-Meritor and the Owner about warranty and no Cummins-Meritor employee or dealer is authorized to make any additional warranty on behalf of Cummins-Meritor. This agreement allocates the responsibilities for component failure between Cummins-Meritor and the Owner.



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Fire and Rescue Apparatus

Three (3) Year Material and Workmanship Meritor Wabco ABS Brake System Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Meritor Wabco ABS brake system shall be covered by Meritor Wabco as indicated in the attached Meritor Wabco warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor Wabco warranty description shall apply.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

WARRANTY

MODEL YEAR 2021 VEHICLES



Warranty coverage is essential to protecting your investment. But understanding the full details of your coverage can be challenging. This straightforward approach allows you, our valued customer, to better understand how your specific vehicle applications will be covered in your region. Our component warranty coverage is provided according to vocation/usage categories listed below.

- Linehaul covers high mileage operation (over 60,000 miles/year) on well-maintained major highways of concrete or asphalt construction.
- General Service covers moderate mileage operations (less than 60,000 miles/year) on well-maintained public roads (less than 10 percent off-road) typically with less than three (3) stops per mile.
- Heavy Service (Vocational) covers vehicles with more than 10 percent off-road OR moderate to frequent starts/stops typically with more than three (3) stops per mile.
- Off-Highway Service covers lower mileage operations. Vehicles are not typically licensed for highway use.

How to Read Warranty Coverage (Example)

Number of Years	Mileage (in thousands) Unl=Unlimited	P=Parts Only P&L=Parts & Labor
3	300	P

- The standard aftermarket warranty for WABCO products - including WABCO Original parts, WABCO Reman Solutions, ProVia quality aftermarket parts and WABCO retrofit solutions - is one year, parts only from in-service date when purchased from ZF distributor networks or its affiliates and/or subsidiaries.

WABCO

WARRANTY - MODEL YEAR 2021 VEHICLES

LINEHAUL/GENERAL SERVICE WARRANTY INFORMATION

LINEHAUL/GENERAL SERVICE VEHICLES

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler (Truck)
- Cross Country Coach
- Doubles
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Pipe Hauler
- Platform Auto Hauler
- Pumper
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Truck
- Triples
- Tour Bus
- Wrecker

LINEHAUL TYPICALLY IS

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction

GENERAL SERVICE TYPICALLY IS

- Moderate mileage operations (less than 60,000 miles/year)
- Well maintained public roads (less than 10% off-road)
- Less than three (3) stops per mile

WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Trailer Lift Axle Control Valve	
Trailer Control Line Filter ³	
Air Compressors (ALL) ²	2/200/P&L
Air Dryers (ALL)	3/300/P&L
Aerodynamics	
OptiFlow® TrailerSkirt	2/UnU/P
OptiFlow® Trailer Tail and AutoTail	2/UnI/P
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Electronic Braking System (EBS)	
Electronic Stability Control (ESC)	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Trailer ABS (Anti-Lock Braking System) ³	
Driveline Suspension Control	
Clutch Controls	2/200/P&L
Leveling Valves	1/100/P&L
OptiRide® Automated Manual Transmission (AMT)	
OptiRide® Electronically Controlled Air Suspension (ECAS)	3/300/P&L

WABCO Components ¹ (cont.)	
Safety	
OnGuardACTIVE®	3/300/P&L
OnLane®	
OnLaneALERT®	
OnSide®	
Trailer SafeStart™	
Trailer TailGUARD™	
Telematics	
TrailerCAST™ Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit™ Slack Adjuster	6/600/P
MAXXUS™ Truck Air Disc Brake	5/500/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 17 and 19 Air Disc Brake	2/UnI/P and 1/UnI/L
Pan 22 Air Disc Brake	5/500/P and 1/L
TRISTOP™ D Actuator w/ IBV or IRB	6/600/P
TRISTOP™ D Actuator	3/300/P
UNISTOP™ Actuator	2/200/P
Trailer MAXX22T™ Air Disc Brake	5/500/P and 1/L

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

HEAVY SERVICE (VOCATIONAL) WARRANTY INFORMATION

HEAVY SERVICE VEHICLES

- Airport Rescue Fire (ARF)
- Airport Shuttle
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer
- Combination
- Cementing Vehicle
- City Bus
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Crash Fire Rescue (CFR)
- Mixer
- Demolition
- Drill Rig
- Dump
- Emergency Service
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Newspaper Delivery
- Package Delivery
- Pick-up and Delivery
- Rapid Intervention Vehicle (RIV)
- Rear Loader
- Recycling Truck
- Residential Pick-Up/Waste
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Transit Bus
- Trolley
- Utility Truck
- Winch Truck

HEAVY SERVICE TYPICALLY IS

- On/Off road vocations (10% or more off-road) OR
- Moderate to frequent starts/stops typically more than three (3) stops per mile



WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Air Compressors (ALL)2	
Air Dryers (ALL)	
Trailer Control Line Filter ³	
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	2/200/P&L
Electronic Braking System (EBS)	3/300/P&L
Electronic Stability Control (ESC)	
Trailer ABS Valve ³	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Driveline Suspension Control	
OptiRide® Electronically Controlled Air Suspension (ECAS)	2/200/P&L
Leveling Valves	1/100/P&L
Clutch Controls	2/200/P&L
Safety	
OnGuardACTIVE®	3/300/P&L
OnLane®	
OnLaneALERT®	
OnSide®	
Trailer SafeStart™	
Trailer TailGUARD™	
Telematics	
TrailerCAST™ Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
MAXXUS™ Air Disc Brake	1/Unl/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
Trailer MAXX22T™	1/Unl/P&L
TRISTOP™ D Actuator w/ IBV	3/Unl/P
TRISTOP™ D Actuator	2/200/P
UNISTOP™ Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

WARRANTY - MODEL YEAR 2021 VEHICLES

INDUSTRIAL/OFF-HIGHWAY SERVICE WARRANTY INFORMATION

INDUSTRIAL AND OFF-HIGHWAY SERVICE TYPICALLY IS

- Low mileage operation³
- Vehicles are not typically licensed for highway use

Market	Common Application Types
Agriculture	Fertilizer Spreader, Tractor, Heavy Duty Ag Trailers, Harvester, Sprayer, Skid Loader, Silage Bagger, Slurry Wagons, Grain Cart
Airport Support	Pushback Tractor, Towing Tugs, Aircraft Tow Tractor, Refueling Trucks, Food Service Trucks, Baggage Tractors, De-Icing Equipment, Runway Clearing Equipment
Construction	All-Terrain Crane, Rough Terrain Crane, Excavator, Compactor, Wheel Loader, Road Roller, Motor Grader, Articulated Dump Truck, Rubber Tire Road Roller, Backhoe Loaders, Haul Trucks, Scraper Rough Terrain Forklifts, Trenchers, Drills
Forestry	Logging Forwarder, Kidder, Loaders, Yard Forklifts, Harvesters Fellers
Material Handling	Port Tractor, Rail Yard Spotter, Stevedoring Tractor, Trailer Spotter, Yard Jockey, Scissor Lift, Straddle Carrier, Manlift, Forklift, Boom Lift Telehandlers, Aerial Work Platforms
Mining	Specialized Mining, Excavator, Haul Truck, Underground Loader, Service Trucks, Wheel Loaders, Scrapers, Load Haul Dumps, Personnel Transports, Bolters, Scalpers
Municipal	Street Sweeper, Utility Tractor, Utility Trucks, Tree Trimmers, Dump Trucks, Tow Trucks, Flat Bed Trucks, Winch Applications
Oil & Gas	Fracturing Trailer, Injector Heads, Top Drives, Jack/Lift Boats, Wireline Trucks, Load-On / Load-Off
Rail	Railcar Mover, Track Layers, Grinders, Platform Crane, Locomotive Railcars, Ballast Equipment, Winch Applications



WABCO Components ¹	
Air Management	
Air Brake Valves	2/Unl/P
Air Compressors (ALL)2	
Air Dryers (ALL)	
Brake Actuation	
Air/Hydraulic Actuators	2/Unl/P
Master Cylinders	
Remote Actuators	
Slave and Wheel Cylinders	
Two Fluid Actuators	
Brake Locks	
Brake Locks (ALL)	2/Unl/P
Electric Brake Locks	
Lever Locks	
Braking Systems	
ABS (Anti-Lock Braking System) Air	1/100/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Driveline Suspension Control	
Clutch Controls	1/100/P&L
Leveling Valves	
Electrohydraulics & Controls	
Electronic Pedals	2/Unl/P
Electrohydraulic Brake Valves (EBV)	
Pressure Switches	
Hydraulic Braking Solutions	
Accumulator Charging Valves	2/Unl/P
Hydraulic Throttle Controls and Switches	
Modulating Brake Valves	
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
Caliper Disc Brakes	2/Unl/P
MAXXUSTM Air Disc Brake	1/Unl/P&L
Multiple Disc Brakes	2/Unl/P
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
TRISTOPTM D Actuator w/ IBV	3/Unl/P
TRISTOPTM D Actuator	2/200/P
UNISTOPTM Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ Equivalent hours of service limit: 2,000 hours for all components.

TERMS AND CONDITIONS

COVERAGE EXCLUSIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

This Warranty shall not apply to the following, but not limited to: (1) damage to the product or its component parts caused by incorrect use, installation, maintenance or repair, including without limitation (a) improper fit of mating components or brackets, damaged threads, cut, broken, chafed, pinched or otherwise damaged wiring (sensors, harnesses and connectors), (b) sensors damaged during removal when seized in block, or associated with sensor adjustments/ alignments, and (c) damage resulting from the use or installation of non-genuine WABCO components or materials; (2) damage to the product, its component parts, or diminished product or component part performance due to incorrect operation, deviation from approved conditions or misapplication; (3) any unauthorized disassembly of the product or its component parts including without limitation (a) obliterated, defaced or missing WABCO or WABCO name plate, serial numbers or label identifying the device as a ZF product or WABCO component, (b) changes to sealed adjusting screws, and (c) opening or attempted repair of non-serviceable components; (4) malfunction of the component due to internal contamination of the vehicle system including without limitation (a) water and other contamination damage that is due to the use of a non-genuine air dryer cartridge or (b) valve failures due to contamination in air system, (5) complaints associated with noise, (6) damage resulting from corrosion (including oxidation of electrical devices and connections).

AIR DRYERS

Mounting brackets (see vehicle OEM). Desiccant cartridge housing only.

AIR SYSTEM COMPONENTS

Normal wear items; Gladhand seals, dash valve knobs, valve actuation handles, treadles, pedals.

ABS, ELECTRONIC STABILITY CONTROL (ESC), ROLL STABILITY CONTROL (RSC), OPTIRIDE®, ONGUARD® AND ONLANE®, COLLECTIVELY “ELECTRONICS”

Failure of electronic components due to overvoltage condition, improper grounding, electrostatic discharge (ESD), improper shielding, electromagnetic interference (EMI), or other wiring or installation issues. Malfunctions and failure codes caused by other electronic subsystem failures (data bus, engine, transmission, dashboard, etc.)

HYDRAULIC COMPONENTS

For certain components, brake fluid DOT3 or DOT4 is used as the operating medium. Use of any other fluid will void all warranties associated with that component. For hydraulic braking applications the brake fluid is considered a maintenance item. Maintenance intervals are listed in TB-1367.

COVERAGE LIMITATIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program.

Products purchased on an incomplete vehicle (glider) are limited to one year, 1/Unl/P.

For vehicles that operate full- or part-time outside of the United States and Canada, a 1-Year/Unlimited Miles parts only (1/Unl/P) will apply.

TOOLBOX PLUS™ DIAGNOSTIC SOFTWARE

Proper diagnostics of WABCO Electronics may require the latest version of TOOLBOX PLUS™. Additional labor due to use of an outdated version of TOOLBOX™ software and/or the time to purchase or install the latest version of TOOLBOX PLUS™ are not covered under product warranty.

WARRANTY - MODEL YEAR 2021 VEHICLES

TERMS AND CONDITIONS

(1) What is Covered by this Commercial Warranty?

ZF CV Systems North America LLC and its North American subsidiaries and affiliates (ZF) warrant to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment will be free from defects in material and workmanship. This warranty coverage begins from the original in-service date to the limits provided and runs concurrently with any warranties provided by OEMs and/or any distribution agreements and/or any service contracts that cover the components listed in this publication, if any. If the components listed in this publication are covered by an OEM warranty and/or service contract, then the OEM's warranty and/or service contract shall supersede ZF's warranty and Owner shall comply with all OEM's warranty and/or service contract requirements for claims under such OEM's warranty and/or service contract until those agreements expire. Once those agreements expire and provided the ZF warranty has not expired under the terms stated above, the ZF warranty will be in effect until its expiration date.

Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed previously in this publication. Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Additional diagnostic time due to use of an outdated version of TOOLBOX™, time to purchase or install latest version of TOOLBOX™ are the responsibility of the authorized ZF distributor networks and are not covered under product warranty. Components installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

(2) Designation of Vocational Use Required. To obtain warranty coverage, each Owner must notify ZF through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the WABCO components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with ZF directly. Failure to notify ZF of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date. A second Owner and each subsequent Owner must also notify ZF as to the intended vocational use of the vehicle. This notification can be sent directly to ZF or through

the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use. Coverage under ZF's warranty requires that the application of products be properly approved pursuant to OEM and ZF, approvals.

(3) What is the Cost of this Warranty? There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty? In addition to the items listed on "Coverage Exclusions," this warranty does not cover normal wear and tear, or service items; nor does it cover a component that fails, malfunctions or is damaged as a result of (a) improper handling, storage, installation, adjustment, repair or modification including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by ZF, (b) accident, fire or other casualty, natural disaster, road debris, negligence, misuse, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the brake system capacity), or (c) improper or insufficient maintenance (including deviation from maintenance intervals, approved lubricants, or lube levels). This warranty does not cover any component or part that is not sold by ZF.

(5) To obtain service. If the owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either ZF or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM dealer or ZF distributor networks' servicer. The dealer or ZF authorized servicer will inspect the vehicle and contact ZF for an evaluation of the claim. When authorized by ZF, the dealer or ZF authorized servicer will repair or replace during the term of this warranty any defective WABCO component covered by this warranty.

(6) Disclaimer of Warranty and Limitation of remedies. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE LIMITED WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR WARRANTY FOR HIDDEN OR LATENT DEFECTS, AND IN NO EVENT WILL ZF OR ANY OF ITS AFFILIATES BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, PROGRESSIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND.

- (7) Legal action. Any legal action or claim arising from or related to this Warranty, in contract or otherwise, must be commenced within one year from the accrual of that cause of action, or be barred forever. Any dispute arising in connection with this agreement shall be governed by and construed according to the laws of the State of Michigan and be brought, heard and determined exclusively in either the Circuit Court for the County of Oakland, State of Michigan or the United States District Court for the Eastern District of Michigan. The parties stipulate that the referenced venues are convenient.
- (8) Remedy. The exclusive remedy under this warranty shall be the repair or replacement of the defective component at ZF's option. ZF reserves the right to require that all applicable covered components are available and/or returned to ZF for review and evaluation. THE MAXIMUM LIABILITY, IF ANY, OF ZF FOR ALL DAMAGES, INCLUDING WITHOUT LIMITATION CONTRACT DAMAGES, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORT, IS LIMITED TO AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE PRODUCT and where indicated in the product and application warranty information above, the inclusion of labor is limited to the standard repair time. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE LIMITATION OF DAMAGES PROVISION SET FORTH IN THIS PARAGRAPH SURVIVES BETWEEN THE ORIGINAL END USER AND ZF EVEN IF THE EXCLUSIVE REMEDY SET FORTH ABOVE IS DEEMED TO FAIL OF ITS ESSENTIAL PURPOSE. ZF may change the design or make improvements to its Products without incurring any warranty obligation for previously manufactured Product .
- (9) Entire Agreement. This is the entire agreement between ZF and the Owner about warranty and no, ZF employee, or dealer is authorized to make any additional warranty on behalf of ZF unless in writing and signed by an authorized representative of ZF.





**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

About ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO). For more information, visit: www.wabco-na.com



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity

Custom Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Pierce Custom Cab shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the cab tubular support and mounting structures and other structural components of the cab of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the cab painted by Pierce shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions:	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any: Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25% Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10% Corrosion Perforation 0-120 months 100% This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty. Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship

Command Zone Electronics

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Command Zone control modules shall be free from failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty applies to all of the control modules for the Command Zone system, including the full color graphic displays. Related wire harnesses, cables and connectors are not covered under this limited warranty and are instead covered under the Pierce One Year Basic Apparatus Limited Warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Material and Workmanship

Pierce 12V LED Strip Light

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	This limited warranty covers repairs to correct any defect related to materials or workmanship of the Pierce 12V LED strip lights installed on the apparatus occurring during the warranty period.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty does not apply to related wire harnesses, cables, and connectors, which are covered by the Pierce one (1) year basic apparatus limited warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

NEW PRODUCT WARRANTY



**PARTICIPATING OEM SALES
DISTRIBUTOR SALES**

LIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS USED IN EMERGENCY VEHICLE APPLICATIONS

Allison Transmission will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in an Emergency Vehicle in accordance with the following terms, conditions, and limitations.

WHAT IS COVERED

- **WARRANTY APPLIES** — This warranty is for new Allison transmission models listed below installed in an Emergency Vehicle and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- **REPAIRS COVERED** — The warranty covers repairs or replacement, at Allison Transmission's option, to correct any transmission malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- **TOWING** — Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- **PAYMENT TERMS** — Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section "APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE."
- **OBTAINING REPAIRS** — To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or Dealer to perform necessary repairs.
- **TRANSMISSION REMOVAL AND REINSTALLATION** — Labor costs for the removal and re-installation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- **WARRANTY PERIOD** — The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail purchaser, with the following exception:

Demonstration Service - A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE

APPLICABLE MODELS	WARRANTY LIMITATIONS (Whichever occurs first)		ADJUSTMENT CHARGE TO BE PAID BY THE CUSTOMER	
	Months	Transmission Miles Or Kilometers	Parts	Labor
MT, MD 3000, 3200, 3500, 3700	0-24	No Limit	No Charge	No Charge
HT with Hydraulic Controls	0-24	No Limit	No Charge	No Charge
AT, 1000 Series™, 2000 Series™, 2400 Series™	0-36	No Limit	No Charge	No Charge
HT with Electronic Controls	0-60	No Limit	No Charge	No Charge
HD 1000 EVS, 2100 EVS, 2200 EVS 2350 EVS, 2500 EVS, 2550 EVS, 3000 EVS, 3500 EVS, 4000, 4000 EVS, 4500, 4500 EVS, 4700, 4700 EVS, 4800, 4800 EVS	0-60	No Limit	No Charge	No Charge

WHAT IS NOT COVERED

- **DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION** — Defects and damage caused as the result of any of the following are not covered:
 - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
 - Misuse of the vehicle;
 - Installation into unapproved applications and installations;
 - Alterations or modification of the transmission or the vehicle, and
 - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
 - Anything other than defects in Allison Transmission material or workmanship

NOTE: This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
 - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
 - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

** Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.
P.O. Box 894
Indianapolis, IN 46206-0894
Attention: Warranty Administration PF-9



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship - Transmission Oil Cooler Three (3) Year Collateral Damage Coverage

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The transmission cooler shall be free from component or structural failures caused by defects in material and/or workmanship. Collateral damage up to \$10,000 per occurrence is available for the first three (3) years.
Warranty Begins:	The date of delivery to the first retail purchaser.
Warranty Period Ends After:	Five (5) Years on Oil Cooler and three (3) years on collateral damage coverage
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty. This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner. Towing is covered to the nearest distributor or authorized dealer only when necessary to prevent further damage to your transmission. Labor costs for the removal and reinstallation of goods may be covered when necessary to make repairs. Please contact your OEM for authorization. Replacement of cooler during the warranty period is limited to 100% of reasonable labor costs up to a maximum of \$700 to remove, replace, or repair the oil cooler.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity

Apparatus Body

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The apparatus body shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the body tubular support and mounting structures and other structural components of the body of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Twenty (20) Year Structural Integrity

Pierce Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each new Pierce Aerial Device shall be free from defects in material and workmanship. Aerial Device Models Covered by this warranty include: Aerial Platforms Aerial Ladders SkyBoom
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Twenty (20) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the torque box, turntable, aerial sections and other structural components of the aerial device, as identified in the Pierce specifications for the aerial device. This warranty shall be void if, or to the extent that the aerial device is not maintained in strict compliance with NFPA Standard 1911 in effect at time of sale, including such periodic inspections and testing by qualified third parties as are required by that Standard as it may be in effect from time to time. Proof of such compliance shall accompany any claims under this warranty. Third party testing agencies known to Pierce to be qualified for such purposes may be obtained from the Pierce Customer Service Department This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



AMITY FIRE AND SAFETY, INC.

3750 CHESTNUT ROAD
ALBURTIS, PA 18011-0451
Phone: 610-966-3115
Fax: 610-965-6313

*** STANDARD FIVE YEAR WARRANTY ***

(standard warranty is in effect for parts shipped after 4/15/10)

Three Function Swivel

A. PRESHIPMENT TESTING The Three Function Swivel fabricated by Amity which is exposed to pressure during normal use is subject to final inspection using the following pressure minimums:

1. Hydrostatic applications will be tested to 400 PSI unless specified otherwise on approved drawings. Operating pressures on installed systems are not to exceed 250 PSI at any point in the system. Warranty will be voided and Amity will not be held liable for failure and/or damage occurring from Water Hammering or freezing of water in any system.
2. Hydraulic applications will be tested to 4000 PSI. System operating pressure in application to be 3000 PSI maximum.
3. Dielectric and Continuity Test all circuits. 30 Amp max current loading.

B. THREE FUNCTION SWIVEL MAINTENANCE – Our Three Function Swivel has been fully tested at assembly. Under no circumstances is there to be any maintenance performed internally or externally to the Three Function Swivel by Purchaser or any other third party other than an authorized representative of or Amity itself. The Three Function Swivel is sealed and must remain so. The Three Function Swivel is designed for a long maintenance free life. Should any problems occur or replacement be necessary, first contact Amity. There is to be no field maintenance performed on the Three Function Swivel .

C. MOUNTING REQUIREMENTS – The following are the mounting requirements for the Three Function Swivel:

1. Mounting points and methods are to be determined at the initial design stage. All drawings and applicable documentation must be signed off by both parties and filed for future reference. No deviation to the approved mounting is allowed without approval from Amity.
2. The Three Function Swivel is to be mounted concentric to the center of the turntable bearing.
3. All inlet and outlet plumbing to conform to swivel mounting, under no circumstances is the Three Function Swivel to be positioned to match connections. This will avoid putting excessive loads on the Three Function Swivel. All tubing or piping to be supported by means other than the Three Function Swivel.

D. LIMITED WARRANTY, LIMITATIONS, CONDITIONS AND PROCEDURES REQUIRED.

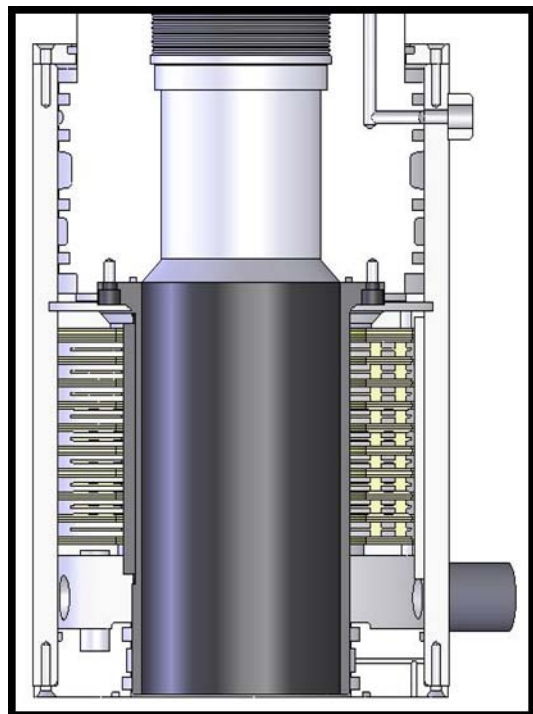
1. The Three Function Swivel is warranted to be free of defects in labor and/or materials for a period of five (5) years from the Date of Service. For purposes here, "Date of Service" shall mean the date when the Three Function Swivel, or the unit to which the Three Function Swivel is incorporated, passes final Underwriters Laboratory testing, or similarly compliant testing, and is certified for service. Evidence of such Date of Service shall be required in connection with any warranty claim by Purchaser.
2. The Three Function Swivel shall be repaired or replaced at the sole option and expense of the Amity provided the Three Function Swivel alleged to be defective was used for its intended normal use of operation and subject to the following qualifications and limitations.
3. Any alteration of the Three Function Swivel without consent from Amity is strictly forbidden and shall void warranty.
4. No welding shall be performed on finished Three Function Swivel.
5. No responsibility is assumed for any malfunctions or damages which are occasionally caused by foreign objects which may be ingested into water or hydraulic systems such as, but not limited to stones, sand or metal chips.
6. Amity assumes responsibility for our Three Function Swivel, which is defective only, and therefore, it will not assume responsibility for labor to either remove or install our Three Function Swivel unless it agrees in writing to assume such responsibility.
7. Unless otherwise approved in writing by the Amity all returns of defective Three Function Swivels (or allegedly defective Three Function Swivels) are at Purchaser's expense and must include a RGA number issued by the Amity.

8. All warranty claims must be presented at the time the problem occurs, or as soon as practical thereafter, either called or faxed to the Amity and include the numbers on the assembly's Amity's label with a detailed explanation of the difficulty in order for the matter to be appropriately evaluated and resolved.
9. Amity will not be held liable for damage incurred during shipment.
10. No responsibility shall be assumed for misuse or improper mounting, unreasonably use or abuse of the Three Function Swivel and or failure to provide or use improper maintenance, failure to follow written installation and use in instruction or any use other than the customary designed use.

THE REMEDIES PROVIDED IN THE ABOVE EXPRESS LIMITED WARRANTY AND ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE. NO OTHER EXPRESS WARRANTIES ARE MADE. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE ARE LIMITED IN DURATION AS SET FORTH ABOVE. IN NO EVENT SHALL THE AMITY ASSUME OR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THE WITHIN DESCRIBED WARRANTY SHALL ONLY BE AFFORDED TO THE ORIGINAL PURCHASER OR FOR INCORPORATION INTO ANOTHER UNIT AND TO FIRST PURCHASER AS PART OF COMPLETED UNIT, HOWEVER, THE WARRANTY PERIOD OF FIVE YEARS IS FROM THE DATE OF SERVICE WITH THE UNDERSTANDING IT IS INSTALLED WITHIN A REASONABLE TIME PERIOD.

Dated: _____, 20__





Fire and Rescue Apparatus

Five (5) Year Material and Workmanship Aerial Hydraulic System Components

Three (3) Year Material and Workmanship Aerial Hydraulic System Seals

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The aerial hydraulic system components and seals shall be free from component or structural failures caused by defects in material and/or workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years and Three (3) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	Pierce's obligation under this warranty is limited to repairing or replacing without charge, as Pierce may elect, the hydraulic lines, fittings, valves, seals, cylinders, filters, pumps, hydraulic motors, rotary actuators, or components which Pierce determines to have failed due to defective material and workmanship. This warranty shall not apply unless the aerial device is inspected in accordance with NFPA 1911 Standard for Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus and the applicable Pierce Operator and Maintenance Manuals.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Four (4) Year Pro-Rated Paint and Corrosion

Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Aerial device shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for exterior surfaces.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Four (4) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any: Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-24 months 100% 25-48 months 50% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-24 months 100% 25-48 months 50% Corrosion: Dissimilar Metal and Crevice 0-24 months 100% 25-48 months 50% Corrosion Perforation 0-24 months 100% 25-48 months 50% This limited warranty applies only to exterior paint. Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



MANUFACTURER'S LIMITED WARRANTY - HYDRAULIC GENERATORS

STANDARD

Harrison Hydra-Gen® (Seller) extends to the original purchaser (Buyer) of goods for use (whether it be an OEM, dealer, re-seller, or end-user) the following warranty covering the Harrison Hydra-Gen® Generator System, subject to the qualifications indicated. Harrison Hydra-Gen® Generator Systems shall consist of a Harrison generator tray assembly and its' components, a Harrison hydraulic pump assembly, and a Harrison supplied meter assembly; unless otherwise specified in below guidelines.

Harrison Hydra-Gen® warrants the original purchaser that the Generator System manufactured or supplied by Harrison Hydra-Gen® will be free from defects in materials and workmanship, provided such goods are:

1. Installed, operated and maintained in accordance with the Harrison Hydra-Gen® owner's manual, and/or written installation addendums.
2. Each new application has been reviewed and approved by the Harrison Hydra-Gen® Application Engineering Group.

PERIOD OF WARRANTY

*Two (2) years or 2000 hours of usage, whichever comes first, from the date the product is shipped from Harrison to the Installer.

***The END USER must complete and return to Harrison Hydra-Gen® the Harrison Hydra-Gen® Warranty Registration Card, Form WR-1, provided in the generator manual and provided online @ www.harrisonhydragen.com, within 45 days of delivery.**

Warranty includes all parts and labor. In addition, maintenance items that are contaminated or damaged by a proven warrantable failure are covered in years 1-2, and Labor time up to 4 hours, travel time up to 2.5 hours, and mileage up to 100 miles for warranty related repairs are covered.



Repair or replacement parts are warranted for ninety (90) days from date of purchase, excluding labor and travel expenses. Any part repaired or replaced during the warranty period assumes the remainder of the warranty or ninety (90) days, whichever is greater.

Only components supplied by Harrison Hydra-Gen® are covered under this warranty.

There is no other express warranty. Implied warranties, including merchantability and fitness for a particular purpose, are limited to periods set forth above and to the extent permitted by law. Any and all implied warranties are excluded. In no event is Harrison Hydra-Gen® liable for incidental or consequential damages.

The Buyer (OEM, dealer, re-seller, or end-user) must notify Harrison Hydra-Gen®, an Authorized Distributor, or a designated Harrison Hydra-Gen® Service Representative, **in writing**, within thirty (30) calendar days after goods or parts failed to meet this warranty.

The sole liability of Harrison Hydra-Gen® and the Buyer's sole remedy for a failure of goods under this warranty and for any and all other claims arising out of the purchase and use of the goods, including negligence on the part of the manufacturer, shall be limited to the repair or replacement of the product, at the option of Harrison Hydra-Gen®, of the parts that do not conform to this warranty, provided that the product or parts are returned to the Harrison Hydra-Gen® manufacturing facility.

A Returned Goods Authorization (RGA) is required for all products and parts being returned, and may be requested by phone, fax, email, or mail.

Failure to make timely delivery to Harrison Hydra-Gen® of the goods claimed to be defective shall void any warranty.

Unless previous written agreements have been made between the Buyer and Harrison Hydra-Gen®, the Buyer shall be responsible for all freight and shipping charges in connection with the delivery of the goods claimed to be defective, to Harrison Hydra-Gen® at its manufacturing facility, and the return of repaired or replacement goods to the Buyer.

If Harrison Hydra-Gen® determines that no warranty coverage is available for goods claimed to be defective, whether determination is based on the warranty being voided, the product failure

being due to a cause not covered by the warranty, the failure to make a timely and proper warranty claim, or otherwise, the Buyer shall have the option of either:

1. Having the goods not repaired and returned to the Buyer, freight collect.
2. Having the goods repaired, If Harrison Hydra-Gen® determines that the product is repairable, and returned to the Buyer, freight collect. The Buyer will be responsible for all costs associated with the repair and testing of the goods and shall authorize Harrison Hydra-Gen®, in writing, to have the goods repaired and tested by Harrison Hydra-Gen®.

The owner is obligated to operate and maintain the goods in accordance with the recommendations published by Harrison Hydra-Gen® in the owner's manual. The owner is responsible for the costs associated with such maintenance and any adjustments that may be required.

This warranty shall not apply to:

1. Damages or defects caused by normal wear, accident, misuse, abuse, abnormal operating conditions, negligence, corrosion, accident causes, or attributable to written specifications or instructions furnished by the installer.
2. Damages or defects caused by improper maintenance in accordance with the Harrison Hydra-Gen® product manuals and operating guidelines.
3. Damages caused by operator error.
4. Damages or defects caused by improper installation.
5. Damages or defects caused by inadequate water drainage provided by the installer in the area where the generator is installed or stored.
6. Damages or defects caused by inadequate air flow space or ventilation provided by the installer in the area where the generator is installed.
7. Any product or part altered or modified by the installer or service facility without written prior consent by Harrison Hydra-Gen®.
8. Cost of normal maintenance, adjustments, installation or start-up.
9. Normal wear items and components needing periodic maintenance such as rubber hoses and filters.
10. Excessive labor due to components being concealed in vehicle as a result of installation.
11. Water, road debris, excessive dirt, salt, abrasive particles, or large foreign objects found in the generator.
12. Telephone or other communications expense.
13. Paint, hydraulic fluid, and interconnecting hoses (internal or external to system assemblies).



This warranty gives you specific legal rights, and you may also have other rights that may vary from state to state or province to province.

No person is authorized to give any other warranties or to assume any other liabilities behalf of Harrison Hydra-Gen®, unless made or assumed in writing by an officer of Harrison Hydra-Gen®.

Contact Harrison Hydra-Gen® for questions regarding your warranty rights and responsibilities at (281) 807-4420; or visit our website at www.harrisonhydragen.com.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion Custom Body Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any: Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25% Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10% Corrosion Perforation 0-120 months 100% This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty. Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Graphics Fading and Deterioration

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each graphic lamination shall be free from defects in material workmanship, fading, and deterioration.
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	One (1) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual).

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

5 DEALER SUPPLIED PRODUCTS AND /OR SERVICES

Exhibit "D"

PROPOSAL INTRODUCTION

With over three decades of industry expertise, Golden State Fire Apparatus, Inc. (GSFA) proudly stands as the premier authorized dealership for top-tier fire apparatus in Central and Northern California. Our steadfast commitment to detail and customer satisfaction has earned us a trusted reputation among first responders.

We sincerely appreciate the opportunity to present this comprehensive proposal for ONE (1) PIERCE MANUFACTURING, INC. 107' ENFORCER ASCENDANT TILLER. Your consideration of this proposal is greatly valued, and we are eager for the opportunity to support your department with the highest level of excellence and professionalism.

DEALER-SUPPLIED PRODUCTS AND SERVICES

Golden State Fire Apparatus Inc. (GSFA) will furnish the following items and/or services before final delivery so that all necessary components and support are in place, contributing to an efficient final delivery process. Please refer to the detailed list below for a comprehensive overview of the products and/or services included:

AUTHORIZED MANUFACTURER

In accordance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "every manufacturer of a vehicle subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." The manufacturer, as of the proposal submission, holds a valid license in compliance with this requirement and is prepared to furnish a copy upon request. This adherence to regulatory standards ensures that the manufacturer maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED DEALERSHIP

In compliance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "a dealer in vehicles of a type subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." Golden State Fire Apparatus, Inc. possesses a valid license at the time of the bid, as detailed above, and can promptly provide a copy upon request. This adherence to regulatory standards ensures that the dealership maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED SALES REPRESENTATIVE

In accordance with the State of California Vehicle Code, specifically Section 11800, it is expressly prohibited for any individual to function as a vehicle salesperson without obtaining a license issued by the Department of Motor Vehicles (DMV). The representative, at the time of

proposal, holds a valid vehicle salesperson's license and is ready to furnish a copy upon request. This adherence to regulatory standards ensures that the sales representative maintains a current and official status, promoting transparency and compliance with legal requirements throughout the bidding process and subsequent phases.

VEHICLE REGISTRATION

In adherence to the State of California Vehicle Code Section 11739, it is mandated that the "dealer of a new motor vehicle sale is responsible for applying for the title, securing vehicle registration, and obtaining license plates for the Customer" through the Department of Motor Vehicles (DMV). Being a factory-authorized dealer of the vehicle being sold, Golden State Fire Apparatus, Inc. is duly authorized to register the vehicle with the State of California as a new vehicle manufacturer.

GSFA is committed to facilitating an excellent vehicle ownership experience for the customer. As such, we will manage all necessary applications and complete all transfer papers, including the application for California Exempt "E" license plates. This approach ensures compliance with regulatory requirements and a hassle-free registration process for our valued customers.

WEEKLY PROGRESS PHOTOGRAPHS

GSFA is committed to ensuring transparency and comprehensive reporting throughout the construction process of the apparatus. To achieve this, GSFA will provide weekly photographs capturing various stages of the apparatus or major components under construction.

Commencing from the initiation of the manufacturing process, the photographic documentation will extend throughout the entire production phase by the manufacturer. These weekly reports will offer a visual representation of the ongoing progress of the apparatus, highlighting key milestones and showcasing unique features and aspects as construction unfolds.

Our focus is to provide customers with a clear and detailed insight into the evolution of the apparatus, fostering a deeper understanding of the craftsmanship and distinct elements incorporated during the construction process. This commitment to regular, visual updates aims to enhance communication and transparency regarding the progress of the apparatus.

CONTINGENCY RESERVE FUND

A Contingency Reserve Fund amounting to \$50,000 per unit is incorporated into the quotation to address potential change orders, unforeseen items, or necessary work that may arise during the contract. The utilization of this reserve fund is at the sole discretion of the Customer. It is essential to note that this reserve fund is not an estimate for the aforementioned contingencies, and the actual costs associated with change orders, unforeseen items, or required work may surpass the reserved amount depending on their nature.

Any unused portion of the Contingency Reserve Fund will be credited back on the final invoice. Alternatively, if not credited, the remaining funds will be promptly returned to the Customer in the form of a check following the completion of the final invoicing process. This approach guarantees financial transparency and effective management throughout the project.

FIRE FIGHTING EQUIPMENT MOUNTING FUND

A Fire Fighting Equipment Mounting Fund amounting to \$10,000 per unit is incorporated into the quotation and is specifically designated to cover the expenses associated with mounting of said equipment, adhering to the directives of the Customer.

In the event that the mounting costs surpass the stipulated allowance, any additional work required can be undertaken at the prevailing shop rate. Any unused portion of the Fire Fighting Equipment Mounting Fund will be credited back on the final invoice. Alternatively, if not credited, the remaining funds will be promptly returned to the Customer in the form of a check following the completion of the final invoicing process. This approach guarantees financial transparency and effective management throughout the project.

PRE-CONSTRUCTION, FACTORY VISIT

A pre-construction trip to the manufacturing facility is included for five (5) Customer representatives. The primary objective of review and finalize, in detail, the specifications prior to the start of production. The pre-construction trip is anticipated to span four (4) days and three (3) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the pre-construction trip.

FINAL INSPECTION, FACTORY VISIT

A final inspection trip to the manufacturing facility is included for five (5) Customer representatives. The primary objective of this visit is to ensure the adherence of the apparatus to specifications and promptly identify any potential deficiencies. The final inspection trip is

anticipated to span five (5) days and four (4) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the final inspection trip.

DELIVERY TO AUTHORIZED SERVICE FACILITY

GSFA will deliver the apparatus to our Northern California facility located in Sacramento for a comprehensive dealer preparation inspection. This service, conducted at the expense of GSFA, aims to have the apparatus in optimal condition at the time of final delivery.

To ensure the proper break-in of all components while still under warranty, the apparatus will be delivered under its own power. The use of rail or truck freight for transportation is deemed unacceptable in order to uphold the highest standards of quality assurance during the delivery process. This approach not only aligns with warranty considerations but also emphasizes the commitment to delivering a fully operational apparatus to our valued customers.

PRE-DELIVERY SERVICE

Before reaching its final destination, the apparatus undergoes a pre-delivery service conducted by Golden State Emergency Vehicle Service, Inc. This service is designed to tap into the expertise of an external source, providing an experienced perspective that enhances the thoroughness of your final inspection. Our pre-delivery service covers the following areas:

1. Engine Compartment and Undercarriage:
 - Inspect for broken mounting brackets.
 - Inspect and identify locations of any fluid leaks.
 - General inspection of hoses, wiring, and linkage, focusing on potential wear points.
 - Verify correct fluid capacities for engine oil, coolant, power steering fluid, washer reservoir fluid, transmission fluid, rear-end fluid, pump transmission oil, and primer oil if applicable.

- Re-torque U-bolts to OEM specifications if equipped with leaf spring suspension (Pierce Custom chassis only).
2. Interior:
 - Confirm proper operation of doors, windows, and locks, ensuring accurate adjustment.
 - Confirm proper operation of seatbelt alarms.
 - Confirm proper operation of all compartment door alarms, as well as hose bed cover, ladder rack, light tower, and deck gun alarms.
 - Ensure functionality of auxiliary power points, interior lighting, mirror, and seat controls, and if applicable - headsets and radios.
 - Inspect upholstery for quality and condition.
 3. Exterior:
 - Address reasonable paint scratches or chips.
 - Tighten any loose hardware.
 - Inspect tires and wheels, ensure proper pressure.
 - Check compartment doors for proper operation and latch fit.
 - Lubricate compartment door locks if applicable.
 4. Road Test:
 - Conduct a road test with a full water tank (if applicable), covering approximately twenty miles on both city and highway roads.
 - Perform a DOT compliant brake test to verify the system is holding air.
 - Inspect brake condition, wheel seals, and ensure drive train components reach optimal operating temperatures.
 - Conduct an Allison Transmission self-diagnostic to verify fluid level, fluid and filter life, and check for fault codes.
 5. Electrical:
 - Verify the operation of all lights, sirens, and other electrical accessories.
 6. Pump:
 - Operate the Pressure Governor or Relief Valve, transfer valve, and check pump shift.
 - Inspect water tank, pump and plumbing for leaks and calibrate the water level gauge.
 - Ensure smooth operation of all discharge, suction, and drain valves.
 7. Pierce Husky™ Foam System:

- If applicable, draft and inject clean water to ensure proper operation of the foam pump.
8. Fuel and DEF Tanks:
 - Fill the fuel tank and DEF tank prior to final delivery.
 9. Wash:
 - Thoroughly wash the apparatus prior to final delivery.

This pre-delivery service assists the apparatus to meet our high standards of quality and operational efficiency before reaching its final destination.

FINAL DELIVERY (CUSTOMER LOCATION)

GSFA will deliver the completed Product, inclusive of any relevant equipment, spare parts, and supplies, to the Customer's specified address at GSFA's expense.

In preparation for the Product's delivery, the Customer is required to furnish GSFA with proof of liability and physical damage insurance. GSFA will withhold the release of the Product until such proof of insurance is provided.

To ensure a timely delivery process, it is incumbent upon the Customer to settle any outstanding balance owed to GSFA before or at the time the Product is completed and ready for delivery. In the event of delayed payment or delivery, GSFA reserves the right to impose a late fee and daily storage charge as outlined in the Standard Terms and Conditions until payment is received.

For compliance with insurance liability considerations, the Product will only be delivered upon full acceptance and full payment, or through a prior written agreement mutually reached between the Customer and GSFA. This ensures a secure and efficient finalization of the delivery process, aligning with both parties' obligations and safeguarding against potential liabilities.

COMPREHENSIVE SALES AND SERVICE SUPPORT

At GSFA, we understand that immediate response is essential - and the service and support of your apparatus should be no different. Since our founding in 1989, our mission has been to provide first responders with the highest quality, most reliable fire and emergency apparatus from top-tier manufacturers. We specialize in guiding our customers through the entire process - from apparatus evaluation and customization to final inspection - and ensuring years of reliable service through our Golden State Emergency Vehicle Service (GSEVS) division.

Golden State Emergency Vehicle Service (GSEVS)

Established in 2014, GSEVS is committed to building long-term, collaborative relationships by providing exceptional warranty and technical support. Our services cover a wide range of needs, including chassis,

electrical systems, pump, aerial, routine maintenance, equipment mounting, and pump testing - with priority given to new units sold by GSFA. Our goal is to deliver prompt, professional service and unwavering support for your apparatus.

Sacramento Facility

Our Sacramento location features a 33,814-square-foot facility with 14 working bays and a 4,500-square-foot, two-story parts distribution department. Conveniently located near Highway 99 with easy access to Interstates 80 and 50, we are positioned to serve you efficiently.

Tracy Facility (Opening Fall 2025)

Our second location in Tracy will expand our service capacity with a 49,634-square-foot facility featuring 21 working bays and a parts department equal in size to our Sacramento facility. Strategically located within the "Tracy Triangle" - bordered by I-580, I-205, and I-5 - this facility will enhance our ability to serve customers in the Bay Area and beyond.

Certified and Experienced Technicians

Our service team includes factory-trained professionals certified by Pierce, ASE, and EVT. They undergo regular training to stay current on chassis, electrical systems, and aerial devices, ensuring expert handling of any challenge. Whether it's routine maintenance or complex diagnostics, you can count on expert care and precision with every visit.

Parts

At Golden State, we're dedicated to keeping your apparatus fully operational and mission-ready. That's why we maintain a robust inventory of both Pierce and non-Pierce parts—ready for immediate deployment when you need them most. If a part isn't in stock, we expedite orders directly from the manufacturer to minimize downtime and get your unit back in service without delay.

To make the process even more efficient, our digital Parts Request Portal offers a streamlined, user-friendly experience. It provides 24/7 access to submit requests, monitor order status, and communicate directly with our team—ensuring transparent updates and quicker turnaround times every step of the way.

Mobile Service

To minimize emergency apparatus downtime, we offer a robust mobile service program for on-site repairs and maintenance.

Pre-Delivery Inspection (PDI) Process

We employ a dedicated team of Pre-Delivery Inspection (PDI) technicians solely focused on ensuring your apparatus arrives in peak condition. Before your new custom unit is delivered, it undergoes a thorough, multi-point inspection to verify quality, performance, and compliance with all specifications. Our team handles every detail of the acceptance and delivery process—so you can take ownership with complete confidence and peace of mind.

Your Single Source for Sales and Service

With Golden State Fire, you have a single point of contact for sales, service, and support - all under one roof, with two strategically located facilities to serve you better. We are confident that our combination

of expertise, customer service, and product support is unmatched by any other fire and emergency apparatus dealership in California.

END OF EXHIBIT “D”



GOLDEN STATE

FIRE APPARATUS

PREPARED ESPECIALLY FOR:

SAN MATEO CONSOLIDATED FIRE DEPARTMENT

Two (2) Pierce Manufacturing, Inc.
Enforcer 1750 GPM Type 1 Fire Engines



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1 PRODUCT PROPOSAL

OPTION A

100% PRE-PAYMENT

This will be the price of the Product(s) contingent upon the Customer paying the Grand Total Purchase Price to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

IF YOU ELECT THIS OPTION,
IT RESULTS IN A SAVINGS OF
(\$427,992.88) OFF
OF THE GRAND TOTAL OF OPTION B

Please note this discount is also available contingent upon a Third Party (Leasing Company) paying 100% of the Grand Total Purchase Price on behalf of the Customer to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:**San Mateo Consolidated Fire Department**31 Karen Road
Belmont, CA 94002**Sales Consultant**Ryan Wright
ryan@goldenstatefire.com
Mobile: (209) 613-3809

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
07/24/2025	08/31/2025	90724-25A	986	Pierce Manufacturing, Inc.	HGAC contract FS12-23, Model 23P-105

Golden State Fire Apparatus, Inc. ("GSFA") is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the "Product") to SAN MATEO CONSOLIDATED FIRE DEPARTMENT ("Customer") for consideration. This proposal (this "Product Proposal") includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the "Terms and Conditions"); the Product Specifications attached as Exhibit B (the "Specifications"); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the "Dealer Supplied Products/Services List") (all of the foregoing, collectively, the "Agreement"). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the "Executed Date").

ITEM	PRODUCT DESCRIPTION	EXTENDED PRICE
A	Two (2) Pierce Manufacturing, Inc. Enforcer 1750 GPM Type 1 Fire Engines	2,455,230.00
B	<i>Discount for 100% Payment at Time of Order (the "Prepayment Discount")</i>	<i>(389,952.00)</i>
C	SUBTOTAL	2,065,278.00
D	9.625% State Sales Tax	198,783.00
E	California Tire Fee	21.00
F	100% Performance Bond	3,096.00
G	GRAND TOTAL PURCHASE PRICE	2,267,178.00

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the "Grand Total Purchase Price") to GSFA within thirty (30) calendar days of the Executed Date. If payment of the Grand Total Purchase Price is late, a late fee as specified in section 6 of the Terms and Conditions may be applied, and the Prepayment Discount may be adjusted, and the Grand Total Purchase Price increased in accordance with section 2.c of the Terms and Conditions. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above ("Manufacturer") and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA's further performance under the Agreement is contingent upon Manufacturer's acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable

amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **49 to 52 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE / EQUIPMENT MOUNTING – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **1 to 1.5 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

PURCHASE ORDER – Any PO shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

ACCEPTANCE – ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN GSFA AND CUSTOMER. “**ACCEPTANCE**” MEANS THAT THE CUSTOMER DELIVERS TO GSFA: (A) A SIGNED COPY OF THIS PRODUCT PROPOSAL, OR (B) A SIGNED COPY OF A PURCHASE ORDER INCORPORATING THE AGREEMENT IN ITS ENTIRETY. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER’S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED AND OF NO EFFECT UNLESS APPROVED IN WRITING SIGNED BY GSFA.

COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 07/24/2025, GSFA Proposal Number 90724-25A to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

Signature of Authorized Customer Representative

Print Name

Title

Date**ACCEPTED AND AGREED TO BY GSFA**

Signature of Authorized GSFA Representative

Print Name

Title

Date

OPTION B

PAYMENT AT TIME OF DELIVERY OR PICKUP

This will be the price of the Product(s) contingent
upon the Customer paying the Grand Total
Purchase Price to GSFA at time of delivery or pickup
pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:**San Mateo Consolidated Fire Department**31 Karen Road
Belmont, CA 94002**Sales Consultant**Ryan Wright
ryan@goldenstatefire.com
Mobile: (209) 613-3809

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
07/24/2025	08/31/2025	90724-25B	986	Pierce Manufacturing, Inc.	HGAC contract FS12-23, Model 23P-105

Golden State Fire Apparatus, Inc. ("GSFA") is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the "**Product**") to SAN MATEO CONSOLIDATED FIRE DEPARTMENT ("**Customer**") for consideration. This proposal (this "**Product Proposal**") includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the "**Terms and Conditions**"); the Product Specifications attached as Exhibit B (the "**Specifications**"); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the "**Dealer Supplied Products/Services List**") (all of the foregoing, collectively, the "**Agreement**"). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the "**Executed Date**").

ITEM	PRODUCT DESCRIPTION	EXTENDED PRICE
A	Two (2) Pierce Manufacturing, Inc. Enforcer 1750 GPM Type 1 Fire Engines	2,455,230.00
B	9.625% State Sales Tax	236,315.88
C	California Tire Fee	21.00
D	100% Performance Bond	3,604.00
E	GRAND TOTAL PURCHASE PRICE	2,695,170.88

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the "**Grand Total Purchase Price**") to GSFA no later than the time of GSFA's delivery of the applicable Product to Customer's address listed above (or Customer's pick up of such Product at GSFA's facilities, if approved by GSFA). GSFA shall have no obligation to deliver, or permit pick up of the Product if the Customer does not have full payment ready when the Product is complete and ready to deliver or pick up, as applicable. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above ("**Manufacturer**") and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA's further performance under the Agreement is contingent upon Manufacturer's acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **49 to 52 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE / EQUIPMENT MOUNTING – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **1 to 1.5 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

PURCHASE ORDER – Any PO shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

ACCEPTANCE – ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN GSFA AND CUSTOMER. “**ACCEPTANCE**” MEANS THAT THE CUSTOMER DELIVERS TO GSFA: (A) A SIGNED COPY OF THIS PRODUCT PROPOSAL, OR (B) A SIGNED COPY OF A PURCHASE ORDER INCORPORATING THE AGREEMENT IN ITS ENTIRETY. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER’S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED AND OF NO EFFECT UNLESS APPROVED IN WRITING SIGNED BY GSFA.

COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 07/24/2025, GSFA Proposal Number 90724-25B to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

Signature of Authorized Customer Representative

Print Name

Title

Date**ACCEPTED AND AGREED TO BY GSFA**

Signature of Authorized GSFA Representative

Print Name

Title

Date

2 STANDARD TERMS AND CONDITIONS

Exhibit "A"

STANDARD TERMS AND CONDITIONS

1. Definitions.

- a. **"Agreement"** has the meaning given in the Product Proposal.
- b. **"Customer"** means the customer identified in the Product Proposal.
- c. **"Dealer Preparation,"** if applicable, means additional product(s) and/or services added or provided by GSFA after Manufacturer's completion of the Product and transportation to GSFA's premises prior to delivery to Customer, in accordance with the Dealer Supplied Products/Services List and/or a valid Change Order(s).
- d. **"Dealer Supplied Products/Services List"** means the Dealer Supplied Products and/or Services List attached to the Product Proposal as Exhibit D, which reflects all Dealer Preparation under the Agreement absent a valid Change Order(s).
- e. **"Grand Total Purchase Price"** means the total purchase price for the Product identified in the Product Proposal (subject to any adjustments required or permitted by these Terms and Conditions, including by the execution of a valid Change Order(s)).
- f. **"GSFA"** means Golden State Fire Apparatus, Inc., a California corporation.
- g. **"Manufacturer"** means the person or persons, company, firm, corporation, partnership, or other organization identified in the Product Proposal as responsible for manufacturing the Product.
- h. **"Party"** or **"Parties"** means GSFA and/or Customer, as applicable.
- i. **"Prepayment Discount"** means a discount to the purchase price for the Product granted to Customer in connection with Customer's advance payment of the Grand Total Purchase Price (or portion thereof, as specified in the Product Proposal), if applicable.
- j. **"Product"** means the fire apparatus(es) and any associated equipment listed in the Product Proposal and further described in the Specifications.
- k. **"Product Proposal"** means the GSFA proposal executed by Customer to which these Terms and Conditions are attached.
- l. **"Product Warranties"** means the Manufacturer warranties for the Product attached to the Product Proposal as Exhibit C.
- m. **"Specifications"** means the specifications for the Product attached to the Product Proposal as Exhibit B.
- n. **"Terms and Conditions"** means these Standard Terms and Conditions, which are attached to the Product Proposal as Exhibit A.

2. Purchase and Payment.

a. Purchase. Customer agrees to purchase the Product at the Grand Total Purchase Price (as such amount may be adjusted in accordance with these Terms and Conditions), pursuant to the payment terms set forth in the Product Proposal. The Grand Total Purchase Price is payable in U.S. dollars.

b. Contingency Reserve Fund. The Grand Total Purchase Price may include an amount to be set aside for the purpose of funding any future costs or financial obligations incurred by Customer under the Product Proposal or any valid Change Order(s) (the **"Contingency Reserve Fund"**). If applicable, the amount of any required Contingency Reserve Fund will be set forth in either the Product Proposal or Exhibit D. The Contingency Reserve Fund may be withdrawn against by Customer or GSFA for the purpose of satisfying Customer's payment obligations under the initial Product Proposal or any valid Change Order(s) (including, without limitation, a Change Order submitted by GSFA pursuant to Section 8.b). If a Contingency Reserve Fund is required under the Agreement, the amount of such fund is not intended as an estimate of the actual additional costs of contingencies, Change Orders, unforeseen items or other required work that may be incurred under the Agreement after submission of the Product Proposal to Customer, which amounts Customer acknowledges may exceed the Contingency Reserve Fund amount. The balance of any Contingency Reserve Fund will be credited against Customer's payment obligations, or otherwise returned to Customer within thirty (30) calendar days of delivery of all Products under the Agreement (provided that Customer has paid all amounts owed under the Agreement as of such date).

c. Prepayment Discount. If GSFA has granted Customer a Prepayment Discount, Customer must provide each associated prepayment (each, a “**Prepayment**”) within the time frame specified in the Product Proposal in order to receive such discount. Customer’s failure to timely make any Prepayment may result in: (i) GSFA’s termination of the Agreement; and/or (ii) Customer’s loss of the Prepayment Discount for the portion of the Grand Total Purchase Price represented by such outstanding Prepayment and the application of a late fee as set forth in Section 6, in each case in GSFA’s sole discretion.

d. State Sales Tax. Customer shall be responsible for the cost of state sales tax associated with, or attributable to, the Product. The taxes stated in the Product Proposal are subject to adjustment for the applicable state sales tax rate in effect at the time of delivery. Therefore, the sales tax set forth on the Product Proposal is only an estimate of such taxes and will be increased or decreased at the time of delivery if a change in the applicable sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the difference in the applicable sales tax.

3. Product Completion Date. Within thirty (30) calendar days of the date on which the last required signatory executes the Product Proposal (such date, the “**Executed Date**”), GSFA shall submit to Customer a tentative Product completion date based on the then-estimated time to complete the manufacturing of the Product(s) and for the Product(s) to be ready for inspection and final approval by Customer at the manufacturing facility (which may differ from the Product completion estimate contained in the Product Proposal). Due to global supply chain constraints, any Product completion date contained herein, or in the Product Proposal, or otherwise provided to Customer, is a good faith estimate only as of the date provided to Customer, and merely an approximation based on current information available to GSFA and Manufacturer. Customer shall not be entitled to rely on any such estimate, and GSFA shall have no liability to Customer for a failure by GSFA or Manufacturer to meet any such estimate. All Product completion estimates are subject to modification and, if applicable, GSFA will provide updates to such estimates to Customer when available.

4. Stock / Demo Units. Notwithstanding any other provision contained in the Agreement (including Section 12 hereof concerning warranties), any Products constituting stock/demo unit(s) are sold to Customer on an as-is, first-come and first-served basis and GSFA makes no further representation or warranty to any customer with respect to such unit(s). Regardless of the terms of the Product Proposal, GSFA shall only be obligated to sell such stock/demo unit(s) to the first customer to enter into a purchase agreement with GSFA identifying such unit(s), and after the execution by GSFA of such agreement any subsequent purchase agreement (including the Agreement, as applicable) shall have no further force or effect with respect to such unit(s).

5. Multiple Unit Purchase. If the Grand Total Purchase Price includes pricing for multiple Products, the Product price stated in the Product Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Agreement. GSFA shall have no obligation to offer the same price for any Product if purchased by Customer pursuant to a later purchase agreement.

6. Late Fee; Storage Fee. A late fee equal to 0.033% of the outstanding portion of the Grand Total Purchase Price will be charged per calendar day for overdue payments beginning ten (10) calendar days after the payment is due and continuing for the first thirty (30) calendar days thereafter. After such thirty (30) calendar day period, the late fee shall increase to 0.044% per calendar day until payment of the outstanding portion of the Grand Total Purchase Price is received; provided that if Customer is a public agency, the foregoing late fees shall not exceed the statutory limit set forth in Section 926.10 of the California Government Code. If Customer is unable to satisfy the delivery requirements hereunder or is unwilling to take delivery of the Product, then GSFA shall be entitled to a storage charge running from the earlier of: (i) the date of delivery agreed to between GSFA and Customer (provided GSFA is willing and able to deliver the Product on such date), or (ii) twenty-one (21) calendar days after GSFA notifies Customer that the Product is available for delivery. The storage charge is equal to: (i) \$175.00 per calendar day per apparatus stored, or (ii) the actual charges incurred by GSFA with a third party for storage of the Product, whichever is greater. Such storage charge shall continue until the actual time of delivery and Customer’s possession of the Product, and any such storage by GSFA or such third party shall be at the sole risk of Customer.

7. Delivery; Inspection and Acceptance.

a. Delivery. Subject to Section 5 hereof, the Product is scheduled to be delivered to the location and within the time period specified in the Product Proposal. Such delivery date is an estimate, and GSFA is, notwithstanding this Section 7.a, not bound to such date unless it otherwise agrees in a separate writing to complete delivery by a date certain. For the avoidance of doubt, GSFA is not responsible for delivery delays caused by or because of actions, omissions or conduct of Customer, the Manufacturer, or their respective employees, affiliates, suppliers, contractors, and carriers. Risk of loss for the Product shall pass to Customer at the point and time of delivery (which shall include an attempted delivery by GSFA which cannot be completed due to any act or omission of Customer). However, title to the Product shall only pass to Customer upon delivery if Customer has then fully paid GSFA all amounts due hereunder (including additional amounts due under any valid Change Order). Absent GSFA's separate written agreement, which it may or may not provide in its sole and absolute discretion, delivery of the Product will not occur before Customer has fully paid all amounts due under the Agreement and provided proof of insurance reasonably satisfactory to GSFA. If GSFA permits Customer to take possession of the Product prior to such payment, Customer may not mount equipment, conduct training, or place the Product into service until all amounts due under the Agreement have been paid. If Customer has ordered multiple Products, GSFA reserves the right to deliver such Products in installments and to separately invoice Customer for such Products.

b. Inspection and Acceptance. Upon delivery, Customer shall have ten (10) calendar days within which to inspect the Product for substantial conformance to the Specifications, and in the event of substantial non-conformance to the Specifications to furnish GSFA with written notice sufficient to permit GSFA to evaluate such non-conformance ("**Notice of Nonconformance to Specifications**"). Contingent upon part availability and Customer's cooperation, any Product not in substantial conformance to material Specifications shall be remedied by GSFA (by repair or replacement, at GSFA's election) within thirty (30) calendar days from GSFA's receipt of the Notice of Nonconformance to Specifications. In the event GSFA does not receive a Notice of Nonconformance to Specifications within ten (10) calendar days of delivery, the Product will be deemed to be in conformance with Specifications and accepted by Customer.

8. Changes to Agreement Terms.

a. Change Orders. The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product, or GSFA may submit changes to the Agreement required or permitted to be made by GSFA (pursuant to Section 8.b or otherwise), by delivering a written Change Order to the other party hereto, which shall include a description of the proposed change sufficient to permit the receiving party to evaluate such change (either, a "**Change Order**"). For any Change Order submitted by Customer, GSFA will provide Customer a written response (a "**Response**") stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion); and (ii) the terms of the modification to the order, including any increase or decrease in the Grand Total Purchase Price resulting from such Change Order, a date on which any increase in the Grand Total Purchase Price must be paid, and an estimate of any effect on production scheduling or delivery resulting from such Change Order. Customer shall have seven (7) calendar days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer countersigns GSFA's Response, Customer shall pay the increase (or be refunded the decrease) in the Grand Total Purchase Price by the date specified in the Response. GSFA may also send Customer a Change Order to account for any changes to the Agreement required or permitted to be made by GSFA (including those changes required pursuant to Section 8.b hereof), and such Change Order shall be effective upon delivery to Customer unless Customer elects to terminate the applicable Product order under the Agreement in accordance with Section 9.

b. Additional Changes.

i. Component Price Volatility; Increases Imposed by Manufacturer. GSFA shall not be responsible for (i) any unforeseen price increase or surcharge enacted by suppliers of major components of the Product (including but not limited to commercial chassis, engine, transmission, and fire pump); or (ii) price increases imposed on GSFA by Manufacturer pursuant to Manufacturer's terms and conditions for sale of the Product (a "**Manufacturer**

Price Increase”), after Customer becomes bound by the Agreement. Customer shall be responsible for all amounts arising from any price increases for major components of the Product (including all associated taxes and fees thereon) or any Manufacturer Price Increases occurring after the execution of the Agreement which increase the cost of the Product to GSFA, and such amounts will be documented on a Change Order adjusting the Grand Total Purchase Price accordingly. Customer shall pay any such price increase prior to Product delivery. A Manufacturer Price Increase may include, but shall not be limited to, an increase in Product price resulting from an increase in the Producer Price Index of Components for Manufacturing (see www.bls.gov Series ID: WPUID6112) in excess of a compounded annual growth rate of five percent (5%), as measured between the month Manufacturer accepts the applicable Product order and the month that is fourteen (14) months prior to the then-current estimated Product completion date (the foregoing, a **“PPI-Based Price Increase”**). If, upon Customer’s receipt of a Change Order reflecting a PPI-Based Price Increase, Customer elects to terminate the applicable Product order in accordance with Section 8.b.iii rather than pay such increase, then in lieu of the cancellation fees described in Section 9.a hereof GSFA shall be entitled to recover and Customer shall pay GSFA’s actual non-reimbursable costs incurred in connection with the Product order through the date of Customer’s termination of such Product order.

ii. New Legal Standards. In the event the Product design, materials or specifications require an alteration arising from new regulations issued by any governmental entity or trade association, including, but not limited to, the NFPA, DOT, and EPA, and such alteration increases the cost of the Product to GSFA, Customer shall be responsible for changes to the Grand Total Purchase Price arising from such alteration. GSFA shall promptly notify Customer when it becomes aware of any potential or required change in regulations occurring prior to delivery that would impact the Product purchased.

iii. Change Orders. Customer shall execute any Change Order submitted by GSFA documenting any of the changes required or permitted by Sections 8.b.i and 8.b.ii above (which shall, to the extent practicable, itemize any increases in the Grant Total Purchase Price and specify a commercially reasonable date by which Customer must pay such increase), unless Customer instead elects to terminate the applicable Product order under the Agreement within fifteen (15) calendar days of Customer’s receipt of such Change Order and in accordance with Section 9. Absent such a termination, failure or refusal to execute a Change Order does not alter Customer’s obligations under this Section 8.b.

c. Changes in Commercial Specifications. Specifications for all components of the Product manufactured by companies other than the Manufacturer are subject to change without notice. Specifications for such components will be as available at the time of manufacture of the Product. GSFA shall not be liable for any deviations in such specifications arising from a substitution of components or changes in the design of any component by their original manufacturer.

9. Termination.

a. By Customer. Customer may terminate a Product order identified in the Product Proposal or a Change Order by providing written notice to GSFA in accordance with Section 16 hereof. If Customer elects to terminate a Product order, Customer shall pay GSFA a cancellation fee as follows: (a) after the Product order is accepted and entered by GSFA, 10% of the portion of the Grand Total Purchase Price applicable to such Product (including all associated taxes, fees and costs) (such amount, the **“Product Purchase Price”**); (b) after completion of the pre-construction phase of the order process, 20% of the Product Purchase Price; and (c) after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or Manufacturer but before substantial completion of such Product, 50% of the Product Purchase Price. Customer shall not be permitted to terminate a Product order after substantial completion of manufacturing and assembly of such Product (excluding any Dealer Preparation or other pre-delivery services or untypical Product customization, if applicable). Notwithstanding the foregoing, if the applicable tier of cancellation fee is not sufficient to cover all actual costs and fees incurred by GSFA with Manufacturer in connection with Customer’s termination of the Product order (**“Manufacturer Termination Fees”**), then in addition to such cancellation fee Customer shall pay the balance of all Manufacturer Termination Fees. If Customer received a Prepayment Discount, such discount shall not be considered for the purpose of calculating the above cancellation fee. The tier of cancellation fee applicable to any cancellation,

as well as the determination of whether a Product has reached substantial completion, shall be in the sole and absolute discretion of GSFA. Customer may request a fee waiver, and GSFA, in its sole discretion, may agree to waive and/or adjust such fee. GSFA will return the balance of the Grand Total Purchase Price or Product Purchase Price, as applicable, within thirty (30) calendar days of the effective date of the cancellation of the Product order or termination of the Agreement.

Customer may terminate the Agreement for an Event of Default by GSFA after providing GSFA with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following GSFA's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as GSFA has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable.

b. By GSFA. GSFA may terminate the Agreement for an Event of Default by Customer after providing Customer with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following Customer's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as Customer has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable. Notwithstanding the foregoing, GSFA may terminate the Agreement effective immediately upon written notice to Customer for Customer's failure to pay any amount owed under the Agreement when due.

Notwithstanding any other provision of this Agreement, if Customer terminates a Product order in accordance with Section 9.a above, GSFA may elect to instead terminate the Agreement upon notice to Customer in accordance with Section 16 hereof. If GSFA terminates the Agreement in accordance with this Section 9.b, Customer shall pay the applicable tier of cancellation fee for all Products pursuant to Section 9.a above as if Customer had elected to terminate each applicable Product order.

c. Based on Discontinuation or Cancellation by Manufacturer. In the event that Manufacturer cancels a Product order (provided that such cancellation is not the result of an act by Customer in violation of the Agreement) or discontinues the manufacture of a Product prior to its completion and delivery: (i) if such Product is the only Product contemplated under the Agreement, then the Agreement shall terminate; or (ii) if additional Products are contemplated under the Agreement, then only the Product order for the applicable cancelled or discontinued Product shall be terminated. Such Agreement termination or Product termination, as applicable, shall be effective upon GSFA's written notice to Customer of such cancellation or discontinuance in accordance with Section 16 hereof. GSFA's only obligation to Customer in such event shall be the return of any Prepayment paid by Customer for the cancelled or discontinued Product. For the avoidance of doubt, the cancellation fees contemplated in Section 9.a hereof shall not apply in the event of a termination pursuant to this Section 9.c.

10. Customer's Obligations. Customer shall provide its timely and best efforts to cooperate with GSFA and Manufacturer during the Product manufacturing and Dealer Preparation process. Reasonable and timely cooperation includes, without limitation, Customer's providing timely information in response to any requests from Manufacturer or GSFA and the participation of Customer's authorized representatives in traveling to Manufacturer's facility for inspections and approval of the Product, including a final approval before the Product leaves Manufacturer's facility.

11. Representations and Warranties. Customer hereby represents and warrants to GSFA as of the Executed Date that the execution of the Agreement and the purchase of the Product(s) and performance of the other obligations of Customer under the Agreement have been approved by Customer in accordance with applicable general laws and, as applicable, Customer's charter, ordinances, purchasing policies, and other governing documents, and executed by the appropriate Customer employees, officials, and/or representatives, and funding for Customer's performance of its obligations under the Agreement has been duly budgeted and appropriated by Customer.

12. Standard Warranty. All applicable Manufacturer warranties are contained in the Product Warranties. Any additional warranties must be expressly approved in a writing signed by GSFA, and Customer acknowledges and agrees that Manufacturer will not be liable for any such additional warranties.

a. Disclaimer. OTHER THAN AS EXPRESSLY SET FORTH IN THE AGREEMENT, GSFA, ITS AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS, OR REPRESENTATIVES, DO NOT MAKE ANY EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT (WHETHER RELATING TO THE CONDITION OR QUALITY OF THE PRODUCT, OR OTHERWISE) PROVIDED HEREUNDER OR OTHERWISE REGARDING THE AGREEMENT (INCLUDING, WITHOUT LIMITATION, WITH RESPECT TO ANY APPLICABLE DEALER PREPARATION), WHETHER ORAL OR WRITTEN, EXPRESS, IMPLIED OR STATUTORY. WITHOUT LIMITING THE FOREGOING, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, THE IMPLIED WARRANTY AGAINST INFRINGEMENT, THE IMPLIED WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE ARE EXPRESSLY EXCLUDED AND DISCLAIMED BY GSFA. STATEMENTS MADE BY SALES CONSULTANTS OR IN PROMOTIONAL MATERIALS DO NOT CONSTITUTE WARRANTIES.

b. Exclusions of Incidental and Consequential Damages. In no event shall GSFA be liable for special, consequential, incidental, indirect or punitive damages incurred by Customer in connection with any matter arising out of or relating to the Agreement, or the breach thereof, even if GSFA has been advised of the possibility of such damages, and regardless of whether such damages arise out of breach of warranty, the Agreement, indemnity, whether resulting from non-delivery or from GSFA's own negligence, or otherwise, except and solely to the extent such damages arise from the gross negligence or willful misconduct of GSFA.

13. Default. The occurrence of one or more of the following events (each, an "**Event of Default**") shall constitute a default under the Agreement: (a) Customer's failure to pay any amounts due or to perform any of its obligations under the Agreement; (b) GSFA's failure to perform any of its obligations under the Agreement; (c) either Party becoming insolvent or becoming subject to bankruptcy or insolvency proceedings; (d) any representation made by either Party under the Agreement which is false in any material respect; (e) any action by Customer to dissolve, merge, consolidate or transfer a substantial portion of its property to another entity during the term of the Agreement; (f) any other material breach of the terms of the Agreement by a Party; or (g) a default or breach by Customer under any other agreement with GSFA or its affiliates.

14. Indemnification of GSFA. Customer shall indemnify, defend, and hold harmless GSFA, its agents, servants, successors and assigns from and against all losses, damages, injuries, claims, demands and expenses, including attorneys' fees and other legal expenses, of whatever nature ("**Damages**"), to the extent such Damages arise out of or in connection with: (i) Customer's breach of the Agreement, or (ii) Customer's use, storage, or operation of the Product following delivery, regardless of where, how, and by whom operated (excluding any negligent operation by GSFA). The indemnification and assumptions of liability and obligation herein provided shall continue in full force and effect notwithstanding the termination of the Agreement, whether by expiration of time, by operation of law or otherwise. This provision is not intended to and shall not constitute the exclusive remedy of the Parties under the Agreement; the Parties may seek indemnity from one another under other legal principles, whether based in equity or law, so long as they do not nullify or cancel the effects of this paragraph.

15. Force Majeure. GSFA shall not be responsible nor deemed to be in default of any provision of the Agreement on account of delays in performance due to causes which are beyond GSFA's or Manufacturer's control and which make GSFA's performance impracticable, including but not limited to wars, insurrections, strikes or labor unrest, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of federal, state or local government, failure or delays in transportation, inability to obtain necessary labor, supplies or manufacturing facilities, supply chain issues, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, disease, pandemics or epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their agreements or labor troubles causing cessation, slowdown, or interruption of work.

16. Notice. Any notices, requests, consents, claims, demands, waivers and other communications required or permitted to be given hereunder must be given in writing at the address of each Party set forth below, or to such other address as either Party may substitute by written notice to the other in accordance with this Section 16, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally recognized private express courier. All such communications will be deemed to have been given: (i) when delivered by hand (with written confirmation of receipt); (ii) on the third (3rd) calendar day after the date mailed, by registered, express or certified mail; or (iii) when delivered by the addressee if sent by a nationally recognized private express courier.

GSFA:

Golden State Fire Apparatus Inc.
7400 Reese Road
Sacramento, CA 95828

CUSTOMER:

To the address listed in the Product Proposal

17. Contradictions. In the event of a conflict between the Agreement and any Change Order, or between Change Orders, the terms of the latest executed Change Order shall control.

18. Manufacturer's Statement of Origin. It is agreed that the manufacturer's statement of origin ("**MSO**") for the Product covered by the Agreement, if applicable, shall be retained and remain in the possession of GSFA per California Department of Vehicles (DMV) directives. Notwithstanding the foregoing, GSFA shall provide Customer with the original MSO if the Customer is self-registering, and Customer shall comply with all good-faith Process of Duty and other DMV requirements applicable to the Product and retain its own MSO.

19. Assignment. The relationship of the Parties established under the Agreement is that of independent contractors and neither Party is a partner, employee, agent, or joint venturer of or with the other. Neither Party may assign its rights and obligations under the Agreement unless it has obtained the prior written approval of the other Party.

20. Governing Law; Jurisdiction; Disputes. Without regard to any conflict of laws provisions, the Agreement is to be governed by and under the laws of the state of California. Prior to taking any legal action that may and/or can arise out of the Agreement, the Parties shall first attempt mediation with an agreed upon mediator. If the Parties cannot agree upon a mediator within thirty (30) calendar days of the submission of written notice of a dispute in accordance with Section 16 hereof, if any disputed matter remain unresolved within thirty (30) calendar days of the commencement of discussions, or if any party refuses to meet, then either party may submit any remaining disputes concerning and/or claim regarding the Agreement and/or the terms and conditions herein to the Superior Court, County of Sacramento (and the parties expressly consent to exclusive personal jurisdiction and venue before such court).

21. Entire Agreement; Amendments. The Agreement, including the Product Proposal, its exhibits and all valid Change Orders, is the exclusive agreement between the Parties regarding the subject matter contained herein and therein. No change in, modification of, or revision of the Agreement shall be valid unless in writing and signed by duly authorized representatives of both Parties with authority to sign such amendments to the Agreement.

END OF STANDARD TERMS AND CONDITIONS



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

3 PRODUCT SPECIFICATIONS

Exhibit "B"



Proposal Details Report

7/24/2025

Customer: SAN MATEO CONSOLIDATED FIRE DEPT
Representative: Klockzien, Dave
Requirements Manager:
Description: Two (2) San Mateo Consolidate
Chassis: Enforcer Chassis
Body: Pumper, Medium, Aluminum, 2nd Gen
Bid Number: 986
Job Number:
Organization: Golden State Fire Apparatus, Inc

OptionCode	Type	Option	ProposalText
0766611		Boiler Plates, Pumper	GSFA is pleased to submit a proposal to the San Mateo Consolidated Fire Department for a Pierce® triple combination pumper per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications. PIERCE MANUFACTURING was founded in 1913. Since then, we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land. Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market. Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification. In accordance with the current edition of applicable NFPA standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment. Images and illustrative material in this proposal are as accurate as known at the time of publication but are subject to change without notice. Images and illustrative material are for reference only and may include optional equipment and accessories and may not include all standard equipment. GENERAL DESIGN AND CONSTRUCTION To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system. QUALITY AND WORKMANSHIP Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality. Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal. In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to ensure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce. To demonstrate the quality of our products and services, a list of at least twenty five (25) fire departments/municipalities that have purchased vehicles for a second time is provided. DELIVERY The apparatus will be delivered under its own power to ensure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered. MANUAL AND SERVICE INFORMATION At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle. SAFETY VIDEO At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. A link to the video is also available on the Pierce Training website. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance. PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power, nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet the current edition of applicable NFPA standards acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by GSEVS by operating a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within one hundred (100) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operator's manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

Commercial General Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Personal and Advertising Injury:

\$1,000,000

General Aggregate:

\$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

Commercial Automobile Liability Insurance

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit:

\$1,000,000

Umbrella/Excess Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:

\$3,000,000

Each Occurrence:

\$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

Product Liability Insurance

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when

		required by written contract between the Owner and a Pierce authorized dealer. Umbrella/Excess Liability Insurance The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance: Each Occurrence: \$25,000,000 Aggregate: \$25,000,000 The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies. The required limits can be provided by one (1) or more policies provided all other insurance requirements are met. Coverage will be provided by a carrier(s) rated A- or better by A.M. Best. All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.
0661794	Single Source Compliance	SINGLE SOURCE MANUFACTURER Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.
0584456	Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452	RFP Location: Appleton, Wisconsin	
0588609	Vehicle Destination, US	
0770780	SP Truck Lift, Final Inspection	TRUCK LIFT, FINAL INSPECTION The truck will be put on a lift during final inspection.
0670275	Unit to be Similar in some Aspects, Excluding Pump Panel	SPECIAL INSTRUCTIONS The apparatus being proposed will be designed and built to match the 38840. However, some variation may be necessary due to changes in our manufacturing processes or our product offering. Revisions in NFPA guidelines and/or other regulations may also affect our ability to match the previous unit.
0816491	Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	NFPA 2024 STANDARDS This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions. Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus. All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack. A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating. The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications. An official of the company will designate, in writing, who is qualified to witness and certify test results.
0533347	Pumper/Pumper with Aerial Device Fire Apparatus	
0588611	Vehicle Certification, Pumper	

0661778	Agency, Apparatus Certification, Pumper/Tanker, U.L.	NFPA COMPLIANCY Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA". PUMP TEST Underwriters Laboratory (UL) will test, approved, and certify the pump. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the pump manufacturer's record of pump construction details will be forwarded to the Fire Department. GENERATOR TEST If the unit has a generator, Underwriters Laboratory (UL) will test, approved, and certify the generator. The test results will be provided to the Fire Department at the time of delivery. BREATHING AIR TEST If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and have the sample certified that the air quality meets the requirements of NFPA 1989, <i>Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection</i>.
0816495	Certification, Vehicle Inspection Program, NFPA 1900	VEHICLE INSPECTION PROGRAM CERTIFICATION To assure the vehicle is built to current NFPA1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus. A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.
0092138	Highly Customized Product (HCP)	PRODUCT CHANGES AND IMPROVEMENTS Our components and processes, as described in this proposal document, are as accurate as known at the time of bid submission, but are subject to change for the purpose of product or process improvements, or changes in industry standards providing the change does not affect the meaning or definition of the bid specifications.
0536644	Customer Service Website	AFTERMARKET SUPPORT WEBSITE Pierceparts.com will provide <u>Pierce authorized dealer</u> access to comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the Pierce authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips. Pierceparts.com is also accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized Pierce dealer for additional support and service. The website will consist of the following screens at the dealer level: My Fleet Screen The My Fleet screen will provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc. Parts Screens The Parts screens will provide parts look-up capability of Pierce Manufacturing sourced items, with the aid of digital photographs, part drawings and assembly drawings. The parts search application will permit the searching of parts by item description or function group (major system category). The parts application will provide the ability to submit electronically a parts order, parts quote, or parts return request directly to Pierce Manufacturing for processing. Warranty Screen The Warranty screens will provide dealers the ability to submit electronically warranty claims directly to Pierce Manufacturing for reimbursement. My Reports Screens The My Reports screens will provide access to multiple dealer reports to allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts. Technical Support Screens The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided. Training The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in Pierce Manufacturing training classes will be provided. About Pierce Access to customer service articles, corporate news, quarterly newsletters, and key contacts within the Customer Service Department will be provided. The current Customer Service Policy and Procedure Manual, detailing the operation of the Customer Service group will also be accessible.
0620362	Consortium, HGAC	
0537375	Unit of Measure, US Gallons	

0030006	Bid Bond Not Requested	BID BOND NOT REQUESTED A bid bond will not be included. If requested, the following will apply: All bidders will provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract. Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.
0816571	Performance Bond, 100% with 25% Warranty Bond, 1 Yr, and Payment Bond, PPI Terms	PERFORMANCE BOND, 1 YEAR The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited Warranty period, whichever is shorter. Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible. If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month Pierce accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month. The seller will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.
0000007	Approval Drawing	APPROVAL DRAWING A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc. A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.
0781461	Electrical Diagrams, Hard, CD or USB Flash Features	ELECTRICAL WIRING DIAGRAMS There will be electrical wiring diagrams, provided for the model of chassis and body in the following configurations: no hard copies of the electrical diagrams one (1) USB flash drive with the electrical diagrams provided no CDs of the electrical diagrams provided
0649754	Enforcer Chassis	ENFORCER CHASSIS The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.
0000110	Wheelbase	WHEELBASE The wheelbase of the vehicle will be 187.50".
0000070	GVW Rating	GVW RATING The gross vehicle weight rating will be 43,500.

0649713	Frame Rails, 10.25" x 3.50" x .375", Saber FR/Enf	FRAME The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will be heat-treated steel measuring 10.25" x 3.50" x 0.375". Each rail will have a section modulus of 16.00 cubic inches, yield strength of 120,000 psi, and a resisting bending moment (rbm) of 1,921,069 inch-pounds.
0020018	Frame Liner Not Req'd	
0630705	Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer	FRONT NON DRIVE AXLE The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 19,500 lb. Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron. The center cross members and side plates will be constructed out of 80,000-psi yield strength steel. Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations. There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension. The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load. Camber at load will be zero degrees for optimum tire life. The ball joint bearing will be of low friction design and be maintenance free. Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided. The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase. The axle will have a turning angle of up to 45 degrees.
0030264	Suspension, Front TAK-4, 19,500 lb, Qtm/AXT/Imp/Vel/Enf/SFR	FRONT SUSPENSION Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 19,500 lb. The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment. Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension. The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms. The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side. The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	FRONT SHOCK ABSORBERS KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.
0000322	Oil Seals, Front Axle	FRONT OIL SEALS Oil seals with viewing window will be provided on the front axle.
0582936	Tires, Front, Goodyear, G289 WHA, 315/80R22.50, 20 ply	FRONT TIRES Front tires will be Goodyear® 315/80R22.50 radials, 20 ply G289 WHA tread, rated for 20,400 lb maximum axle load and 68 mph maximum speed.
0019575	Wheels, Front, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot	The tires will be mounted on Alcoa 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud, 11.25" bolt circle.
0530457	Axle, Rear, Meritor RS23-186, 24,000 lb Saber/Enforcer	REAR AXLE The rear axle will be a Meritor™, Model RS-23-186, with a capacity of 24,000 lb.
0544253	Top Speed of Vehicle, 68 MPH /109 KPH	TOP SPEED OF VEHICLE A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 68 mph / 109 kph.

0565379	Suspen, Rear, Single Slipper Spring, 24,000 lb, Saber/Enforcer	REAR SUSPENSION The rear suspension will be Standens, semi-elliptical, 3.00" wide x 52.50" long, with a ground rating of 24,000 lb. The spring hangers will be castings. The two (2) top leaves will wrap the forward spring hanger pin, and the rear of the spring will be a slipper style end that will ride in a rear slipper hanger. A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.
0000485	Oil Seals, Rear Axle	REAR OIL SEALS Oil seals will be provided on the rear axle(s).
0824971	Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Single	REAR TIRES Rear tires will be four (4) Goodyear® 12R22.50 radials, 16 ply all season G622 RSD tread, rated for 27,120 lb maximum axle load and 75 mph maximum speed.
0019625	Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Single	The tires will be mounted on Alcoa 22.50" x 8.25" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.
0589368	Tire Balancing, All, Single Axle	TIRE BALANCE All tires will be dynamically balanced with wheel weights.
0819008	No Tire Pressure Indicator, Fire Department Omits, Non-NFPA 2024 Compliant	TIRE PRESSURE INDICATOR NFPA 1900, 2024 edition, section 7.14.6 requires each tire be equipped with a visual indicator or monitoring system that indicates tire pressure. Per Fire Department specification, a tire pressure indicator is not on the apparatus as manufactured. This apparatus will be non-compliant to NFPA 1900 standards effective at time of contract execution.
0801909	Lug Nut, Covers, Chrome	CHROME LUG NUT COVERS Chrome lug nut covers will be supplied on front and rear wheels.
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	FRONT HUB COVERS Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.
0001960	Axle Hub Covers, Rear, S/S, High Hat (Pair)	REAR HUB COVERS A pair of stainless steel high hat hub covers will be provided on rear axle hubs.
0002045	Mud Flap, Front and Rear, Pierce Logo	MUD FLAPS Mud flaps with a Pierce logo will be installed behind the front and rear wheels.
0889282	SP Chocks, Wheel, Worden HWGY, Super Gripper	WHEEL CHOCKS There will be two (2) pairs of Worden Safety Products, Model HWGY, open bottom wheel chocks provided. Heavy Duty, large molded aluminum wheel chock, yellow powder coat finish.
0646364	Mounting Brackets, Chocks, Worden Safety, Model U815T	Wheel Chock Brackets There will be two (2) pairs of Worden Safety, Model U815T, mounting wheel chock brackets provided. The brackets will be mounted one pair under LS3, one chock under RS3, ship one chock loose. Outside edge of chock bracket (not retention wire) should be even with rubrail. Reference 38840 final inspection report.

0820509	ESC/ABS/ATC Wabco Brake System, Single Rear Axle, NFPA 1900/ULC	ELECTRONIC STABILITY CONTROL A vehicle control system will be provided as an integral part of the ABS brake system from Meritor Wabco. The system will monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system will automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event. The system will monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system will selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction. ANTI-LOCK BRAKE SYSTEM The vehicle will be equipped with a Wabco 4S4M, anti-lock braking system. The ABS will provide a four (4) channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any wheel begins to lockup, a signal will be sent to the control unit. This control unit will then reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control. AUTOMATIC TRACTION CONTROL An anti-slip feature will be included with the ABS. The Automatic Traction Control will be used for traction in poor road and weather conditions. The Automatic Traction Control will act as an electronic differential lock that will not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) will work with the engine ECU, sharing information concerning wheel slip. Engine ECU will use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch will be provided on the instrument panel. Activation of the switch will allow additional tire slip to let the truck climb out and get on top of deep snow or mud.
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	BRAKES The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.
0000740	Brakes, Meritor, Cam, Rear, 16.50 x 8.63"	The rear brakes will be Meritor™ 16.50" x 8.63" cam operated with automatic slack adjusters. Dust shields will be provided.
0020784	Air Compressor, Brake, Cummins/Wabco 18.7 CFM	BRAKE SYSTEM AIR COMPRESSOR The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.
0644232	Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer	BRAKE SYSTEM The brake system will include: - Brake treadle valve - Heated automatic moisture ejector on air dryer - Total air system minimum capacity of 4,272 cubic inches - Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi - Spring set parking brake system - Parking brake operated by a push-pull style control valve - A parking "brake on" indicator light on instrument panel - Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi - A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa) 1/4 turn drain valves on each air tank - The air tank will be primed and painted to meet a minimum 750 hour salt spray test. - The air tanks will be painted job color (lower). - To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.
0630489	Air Dryer, Bendix, AD-9, With Wet Tank, Heated, Saber FR/Enforcer	BRAKE SYSTEM AIR DRYER The air dryer will be a Bendix AD-9 air dryer, with spin-on coalescing filter cartridge and 100 watt heater.
0000790	Brake Lines, Nylon	BRAKE LINES Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

0000856	Air Inlet, with Kussmaul Air Eject	AIR INLET WITH AUTOMATIC EJECT One (1) air inlet with Kussmaul Air Eject will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will automatically disconnect the air line when the truck is started. It will be equipped with a male coupling and be located in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female coupling will also be provided with the loose equipment.
0000860	Outlet, Air, with shut off valve	AIR OUTLET One (1) air outlet will be installed with a female coupling and shut off valve, located on the driver side pump panel. This system will tie into the "wet" tank of the brake system and include an 85-psi pressure protection valve in the outlet line to prevent the brake system from losing all air. Female coupling and male fitting will be .25" thread. A mating male fitting will be provided with the loose equipment.
0675244	All Wheel Lock-up, Single Prk Brk Control	ALL WHEEL LOCK-UP An all wheel lock-up system will be installed which will apply air to the front brakes and use the spring brake at the rear. Front brakes will apply when standard rear parking brake control valve is activated.
0582244	Drain, Remote Air Tank, w/Pull Cable, Location	REMOTE AIR TANK DRAIN There will be a remote cable controlled drain valve installed on each air supply reservoir. The drain valve will be actuated from the side of the vehicle and be a vinyl covered stainless steel cable, firmly attached to the underside of the vehicle. A loop will be provided at the cable end for ease of pulling the drain. All loops for the remote drains will be located under LS3.
0810947	Engine, Cummins X10, 450 hp, HT1650 lb-ft, W/OBD, EPA 2027, Saber FR/Enforcer	ENGINE The chassis will be powered by an electronically controlled engine as described below: Make: Cummins Model: X10 Power: 450 hp at 1800 rpm Torque: 1650 lb-ft at 1000 rpm Governed Speed: 1900 rpm Emissions Level: EPA 2027 Fuel: Diesel Cylinders: Six (6) Displacement: 604 cubic inches (9.9L) Starter: Delco 39MT™ Fuel Filters: Spin-on style primary filter with water separator and water-in-fuel sensor. Secondary spin-on style filter. The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected. The engine will be filled with FA-4 10W30 oil as required by Cummins.
0811409	Not Required, Engine Contingency Adjustment	
0745684	SP High Idle w/Electronic Engine, Auto On, 90 sec Delay, Custom	HIGH IDLE An automatic high idle will be provided that will automatically maintain a preset engine rpm whenever the engine has been idling for 90 seconds and the interlocks are met. A momentary switch will be installed, at the cab instrument panel, for deactivation. The high idle will reactivate whenever the ignition switch or an interlock is reset and the engine has been idling for 90 seconds. The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. This will only occur when the pump is not engaged.

0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine	ENGINE BRAKE A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver. The driver will be able to turn the engine brake system on/off and have a high, medium and low setting. The engine brake will activate when the system is on and the throttle is released. The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine. The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated. The ABS system will automatically disengage the auxiliary braking device, when required.
0644227	Clutch, Fan, Air Actuated, Saber FR/Enforcer	CLUTCH FAN A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.
0640477	Air Intake, Metal Screen, Saber FR/Enforcer	ENGINE AIR INTAKE The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille. A stainless steel metal screen will be installed at the inlet of the air intake system that will meet current edition of applicable NFPA standards. The air cleaner and stainless steel screen will be easily accessible by tilting the cab.
0814375	Exhaust System, Horizontal, Right Side	EXHAUST SYSTEM The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab. The exhaust will terminate horizontally ahead of the right side rear wheels and will be flush with the body rub rail. The exhaust pipes will be aluminized steel. There will be an aluminized steel exhaust diffuser reduced to 5.00" in the center to accommodate the fire department's air recovery system with a standard straight tip on the end provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.
0788765	Radiator, Saber FR/Enforcer	RADIATOR The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards. For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes. The radiator core will have a minimum front area of 1060 square inches. Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability. The radiator will be compatible with commercial antifreeze solutions. The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain. The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap. A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system. Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.
0001090	Cooling Hoses, Rubber	COOLANT LINES Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing. Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.
0041125	Fuel Tank, 65 Gallon, Dual Fills	FUEL TANK A 65 gallon fuel tank will be provided and mounted at rear of chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps. A .75" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be located on the left hand and right hand sides of the body and be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only." A .50" diameter vent will be provided running from top of tank to just below fuel fill inlets. The tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume. Servicing the fuel tank pick-up tubes and fuel gauge sending unit will be capable of being accomplished by draining fuel and dropping tank.

0001129	Lines, Fuel	All fuel lines will be provided as recommended by the engine manufacturer.
0833002	SP DEF Tank, 8.0 Gallon, LS Fill, Rear of Rear Axle, Triple Door, 2nd Gen Body	DIESEL EXHAUST FLUID TANK An 8.0 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body rearward of the rear axle. A 0.50" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located adjacent to the engine fuel inlet behind a triple, painted door on the left side of the vehicle. The fuel door will be held closed by one (1) Southco raised C2 black lever latch. The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
0723716	Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	FUEL PRIMING PUMP A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.
0582243	Shutoff Valves, Fuel Line @ Primary Filter, Cummins	FUEL SHUTOFF A fuel line shutoff valve will be installed on both the inlet and outlet of the primary fuel filter.
0553019	Cooler, Engine Fuel, Imp/Vel, SFR/Enf	FUEL COOLER An air to fuel cooler will be installed in the engine fuel return line.
0645743	Fuel/Water Separator, Racor 690R1210, 10 Micron, Heater, IATS, ISL9	FUEL/WATER SEPARATOR In addition to the standard fuel filters, a Racor 690R1210, 10 micron fuel/water separator with heater will be provided.
0887546	Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/SFR/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4000P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with an amber light and buzzer will be installed on the cab instrument panel.
0625331	Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	TRANSMISSION SHIFTER A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be: 1st 3.51 to 1.00 2nd 1.91 to 1.00 3rd 1.43 to 1.00 4th 1.00 to 1.00 5th 0.75 to 1.00 6th 0.64 to 1.00 R 4.80 to 1.00
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0522824	Mode, Downshift, Aggressive downshift to 3rd, w/engine brake, 6 speed	DOWNSHIFT MODE (w/engine brake) The transmission will be provided with an aggressive downshift mode. This will provide earlier transmission downshifts to 3rd gear from 6th gear, resulting in improved engine braking performance.
0801876	Fluid, 4000 Series Trans, Allison Approved TES-668 Synthetic, IPOS, Custom	TRANSMISSION FLUID The transmission will be provided with TranSynd, or other Allison approved TES-668 heavy duty synthetic transmission fluid.

0001375		Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.
0669988		Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.
0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.
0550144		Logo/Emblem, on Horn Button	LOGO AND CUSTOMER DESIGNATION ON HORN BUTTON The steering wheel will have an emblem containing the Pierce logo and customer name. The emblem will have three (3) rows of text for the customer's department name. There will be a maximum of eight (8) characters in the first row, 11 characters in the second row and 11 characters in the third row. The first row of text will be: San The second row of text will be: Mateo The third row of text will be: Consolidated
0817116	SP	Bumper, 16" Extended, Polished S/S, Saber FR/Enforcer	BUMPER A one (1) piece bumper manufactured from 8 gauge formed stainless steel with a 0.38" bend radius will be provided. The bumper will be a minimum of 10.00" high with a 1.50" top and bottom flange, and will extend 16.00" from the face of the cab. The bumper will be 95.28" wide with 45 degree corners and side plates. The bumper will be bright polished finish. To provide adequate support strength, the bumper will be mounted directly to the front of the C channel frame. The frame will be a bolted modular extension frame constructed of 50,000 psi tensile steel. Gravel Pan A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and the cab face. The pan will be properly supported from the underside to prevent flexing and vibration.
0640199		Tray, Hose, Center, 16" Bumper, Outside Air Horns	CENTER HOSE TRAY A hose tray, constructed of aluminum, will be placed in the center of the bumper extension. The tray will have a capacity of 100' of 1.75" double jacket cotton-polyester hose. Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.
0768564	SP	Cover, Aluminum Treadplate, (2) Southco C2 Chrome Latches, Hose Tray, Notched	CENTER HOSE TRAY COVER A bright aluminum treadplate cover will be provided over the center hose tray. The cover will be "notched" allowing the hose to be pre connected to hose connection. The notch will be as reward toward the grill as possible. The cover will be attached with a stainless steel hinge. Two (2) Southco C2 chrome latches will secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position.
0638008		Tray, (1) Hose Left Side of Bumper	LEFT SIDE HOSE TRAY A hose tray will be placed in the left side of the extended bumper. The tray will have a capacity of 65' of 1.50" double jacket cotton-polyester hose. Black rubber grating will be provided at the bottom of the tray. Drain holes will be provided.
0768567	SP	Cover, Aluminum Treadplate, Two (2) Southco C2 Chrome Latches, Hose Tray	LEFT SIDE HOSE TRAY COVER A bright aluminum treadplate cover will be provided over the left side mounted hose tray. The cover will be attached with a stainless steel hinge. There will be two (2) Southco C2 chrome latches provided to secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position.
0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Ent	

0061058	Tow Eyes, Below Deck, S/S	TOW EYES Two (2) .75" thick stainless steel tow eyes will be installed under the bumper and attached to the front frame members. The tow eyes will be designed and positioned to allow up to a 9,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow eyes will not be used for lifting of the apparatus. The tow eyes will not be painted.
0689308	Notch, Front For Recessing Of Q2B, Stainless Bumper	FRONT BUMPER NOTCH The front bumper will be notched for recessing of the Q2B siren. The notch will be designed so that the bumper is one (1) continuous piece. The notch will be welded in place for strength with a continuous top and bottom flange. All areas will be polished for appearance. The siren will be located right side OUTBOARD of the bumper.
0692444	Recess, Front/Side Warning Light, In Angled Corner of Bumper	SIDE ZONE LIGHT MOUNTING The front warning lights on each side will be recessed into the angled portion of the bumper extension to protect the light from damage. The recessed bracket will be made of polished stainless steel.
0532853	Recess, Side Zone Warning Light, In Side of Extended Bumper	SIDE ZONE LIGHT MOUNTING The front lower warning lights on each side will be recessed into the side of the bumper extension to protect the light from damage. The recessed bracket will be made of polished stainless steel.
0030434	Travel Stops, Front Inlet/Outlet Swivel, Qty & Location	SWIVEL STOPS Installed on the front bumper extension will be one (1) sets of stainless steel rods to limit the travel of a front outlet or inlet swivel. Two (2) stainless steel rods, for each application, will be threaded into the bumper deck and mounted RS BUMPER TOP.
0698960	Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	FRONT BUMPER UL-LX COATING Protective black UL-LX® coating will be provided on the outside exterior of the top front bumper flange. It will not be sprayed on the underside of the flange. The lining will be properly installed by an authorized UL-LX dealer.

0648332	Cab, Enforcer, 7010	CAB The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder. The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises. For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards. The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly. The front of the cab will be constructed of a 0.13" firewall plate, covered with a minimum 0.090" front skin thickness, and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin. The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab. The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability. The centerline of front axle to the rear of the cab will be 70.00" long. The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed. The floor to ceiling height inside the crew cab will be 64.50" in the center and outboard positions. The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers. The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure 51.50" to the rear wall. The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants. The cab will be a full tilt cab style. A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab. CAB ROOF DRIP RAIL For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof. FENDER LINERS Full circular inner fender liners in the wheel wells will be provided. PANORAMIC WINDSHIELD A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance. WINDSHIELD WIPERS Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements. The washer reservoir will be able to be filled without raising the cab.
0647919	Engine Tunnel, ISL, Spray Insulation, Saber FR/Enforcer	ENGINE TUNNEL Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room. The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards. The engine tunnel will be no higher than 17.00" off the crew cab floor.
0887601	Cab Insulation, Enforcer/Saber FR	INTERIOR CAB INSULATION The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, a minimum of 1.00" insulation in the crew cab floor, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.
0633594	Rear Wall, Interior, Adjustable Seating	INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING) The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

0632103	Rear Wall, Exterior, Cab, Saber FR/Enforcer	CAB REAR WALL EXTERIOR COVERING The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.
0622582	Cab Lift, Elec/Hyd, Manual Override, Control Loc Feature, Sab FR/Enf	CAB LIFT A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. Hydraulic pump will have a manual override for backup in the event of electrical failure. Lift controls will be located As located on the PP drawing.. The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal. The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position. The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position. For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered. Cab Lift Interlock The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.
0683356	Cab Lift Stay Arm, Painted Yellow	PAINTED CAB LIFT STAY ARM The cab lift stay arm will be painted yellow.
0695930	Grille, Bright Finished, Front of Cab, Enforcer	GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.
0512716	Scuffplate, Rear of Engine Tunnel	SCUFFPLATE A brushed stainless steel scuffplate will be provided on the entire rear vertical surface of the engine tunnel.
0002224	Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	DOOR JAMB SCUFFPLATES All cab door jambs will be furnished with a 1.00" polished stainless steel scuffplate, mounted on the striker side of the jamb.
0012226	Scuffplates, S/S Corner Guard, Polished, Rear Cab Corners	SCUFFPLATES, REAR CAB CORNER GUARDS Both rear cab corners will be furnished with a full height, polished stainless steel corner guard scuffplate. The guard will extend 1.00" from the corner to protect paint from damage when pulling items (such as booster hose) around the cab.
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	
0015440	No Chrome Molding, On side of cab	
0521669	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	MIRRORS A Retractable, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.

0648170	Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	DOORS To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high. The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands. Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands. The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed. A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit. A chrome grab handle will be provided on the inside of each cab door for ease of entry. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted. The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.
0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	Door Panels The inner cab door panels will be constructed out of brushed stainless steel.
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	ELECTRIC OPERATED CAB DOOR WINDOWS All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.
0528251	Electric Door Locks, Cab Doors, QXS, AXT, Sab, Enf	ELECTRIC CAB DOOR LOCKS The front driver and officer doors will have a door lock master switch that will control all front and rear crew cab door locks. Each rear crew cab door will have its own lock control. There will be one (1) concealed switch located in an easily accessible chassis specific location that will unlock all the doors.
0762273	Steps, 4-Door Cab, Dual, 1" Longer Bottom Step, Saber FR/Enforcer	CAB STEPS A dual step will be provided below each cab and crew cab door. The steps will be designed with a grip pattern punched into bright aluminum treadplate material providing support, slip resistance, and drainage. The steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 7.00" minimum depth. The bottom step will protrude past the middle step 2.00". The step design raises the middle step higher and closer to the cab floor, resulting in a 12.00" distance from the step to cab floor in the cab and a 10.25" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step will be approximately 11.90" and from first step to middle step will be approximately 12.00". The vertical surface of the upper step well will be aluminum treadplate. The first step will be lit by a white 12 volt DC LED light provided on the step.
0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	CAB EXTERIOR HANDRAILS A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	STEP LIGHTS There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps. One (1) light for the left side cab access steps. Two (2) lights for the left side crew cab access steps. Two (2) lights for the right side crew cab access steps. One (1) light for the right side cab access step. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The lights will be activated when the battery switch is on and the adjacent door is opened.
0002141	Fenders, s/s on cab - Saber/Enforcer	FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.

0557023		Handrail, 10", Below Cab Windshield, Pair	HANDRAILS BELOW CAB WINDSHIELD A 10.00" long x 1.25" diameter handrail will be mounted below the front cab windshield, one (1) on each side. The handrails will be extruded aluminum with a ribbed design to provide a positive gripping surface.
0697329		Handrail, Extra - 21-30" Long	ADDITIONAL HANDRAIL There will be two (2) handrail(s) provided each side of cab at rear corner - height and length to mirror the front body handrails. Each handrail will be an anodized aluminum extrusion with a ribbed design to provide a positive gripping surface.
0637984		Window, Side of C/C, Fixed, Saber FR/Enforcer	CREW CAB WINDOWS One (1) fixed window with tinted glass will be provided on each side of the cab, to the rear of the front cab door. The windows will be sized to enhance light penetration into the cab interior. The windows will measure 18.70" wide x 23.75" high.
0012090		Not Required, Windows, Front/Side of raised roof	
0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	
0651515		Window Protector Bars, Knurled, Crew Doors, 2" Above Window Sill Plate	WINDOW PROTECTOR BARS, CREW CAB DOORS A knurled window protector bar will be installed on each crew cab door, 2.00" above the bottom of the window opening. The bar will extend from the front of the crew cab door to the rear of the crew cab door, mounted as close to the door frame as possible.
0734681		Compt, 16.50 W x 25.50 H x 15 D, Ea Side C/C, Sgl Pan, 70" SFR/Enf	STORAGE COMPARTMENTS Provided on each side of the cab, to the rear of the crew cab access doors, will be a storage compartment. The compartments will be 16.50" wide x 25.50" high x 15.00" deep. The doors will be two (2) single pan doors painted to match the cab exterior with a locking D-ring latch with #751 key, one (1) on each side of the cab. A pneumatic stay arm for each exterior door will be used as a doorstop. The compartment interior will be painted to match the cab interior. Compartment Light There will be two (2) white LED strip lights provided, one (1) each hinged side of compartment door openings, located horizontally, high on wall.
0604171		Scuffplate, Brushed S/S, Bottom of Door Frame, Each	DOOR FRAME SCUFFPLATE There will be two (2) scuffplate(s) provided for the bottom of the door frame of cab aux compartment each side. Each scuffplate will be brushed stainless steel with a 0.38" lip down.
0807455	SP	Spacer, Mounting Bracket for Glove Box (Spacer Only)	SPACER, MOUNTING There will be one (1) stainless steel spacer provided rear cab wall behind glove box holder, MATCH 38840. The spacer will be 17.25" wide x 10.00" high x 1.00" deep with 1.25" lips on the left and right for mounting. The spacer will be used to mount a glove box 1" off the wall.
0894089		Dash, Heavy Duty Metal, Enforcer	CAB DASH The driver side dash, switch panel located to the right of the driver, and center console will be constructed of metal and painted gray. The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior. The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.
0828799	SP	Shelf, Equip Mounting, Alum, Rr Fcng, FW, 3-Piece, Wall, UL-LX, SFR/Enf	EQUIPMENT MOUNTING SHELF There will be a shelf provided in the crew cab for permanent mounting of equipment. The shelf will be divided into three (3) pieces; left, center and right. The shelves will extend across the crew cab from the left side cab wall to the right side cab wall. The left and right side of the shelf will be 17.75" deep and start at the crew cab door jamb. The left and right side of the shelf will have a 2.00" lip around the four (4) sides. They will be mounted 17.00" above the rear facing seat risers. The area under the left and right of the shelf will be open. There will be a wall provided below the rear of the shelf on the left and right side to enclose the area below the shelf. The center of the shelf will be 40.25" wide x 21.00" deep. It will be mounted to the top of the engine tunnel on the rear, flat portion. The shelf will stick out past the engine tunnel. The front and back of the center shelf will have a lip to match the left and right side shelves. The left and right sides of the center shelf will be 12.00" high and mount to the left and right side shelves. The shelf will be fabricated from 0.188" aluminum and sprayed with black UL-LX® polyurethane/polyurea abrasive resistant material.

0806850	SP	Mounting Provisions, 1/4" Alum, Full Engine Tunnel, UL-LX. Enforcer	MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.25" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel 1.00" to allow for wire routing below the plate. The mounting plate will be sprayed with black UL-LX® polyurethane/polyurea elastomer abrasive resistant material to match the cab interior.
0727685	SP	Tray, Equipment Mounting, Aluminum, Special Lip	EQUIPMENT MOUNTING TRAY There will be a tray for mounting of equipment located rear cab wall. The front and sides of the tray will be 2.0" high and the rear of the tray will be 9.0" high. The size of the tray will be 20" Wide x 7" deep (see photo provided). Each tray will be fabricated from aluminum and will be brushed aluminum. Tray not intended for storage of loose equipment. Items stored on tray will be permanently attached to meet current edition of applicable NFPA standards.
0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	CAB INTERIOR The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service. The engine tunnel will be padded and covered, on the top and sides, with dark silver gray 36 ounce leather grain vinyl resistant to oil, grease, and mildew. For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum. The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling. The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs. All wiring will be placed in metal raceways. CAB INTERIOR UPHOLSTERY The cab interior upholstery will be 36 oz dark silver gray vinyl.
0753903		Cab Interior, Paint Color, Saber FR/Enforcer	CAB INTERIOR PAINT The cab interior metal surfaces, excluding the rear heater panels, will be painted gray, vinyl texture paint. The rear heater panels will be painted black, vinyl textured paint.
0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	CAB FLOOR The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler. The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

0891411	HVAC, Heavy-Duty, Enforcer, CARE	DEFROST/AIR CONDITIONING SYSTEM A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area. Cab Defroster A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following: One (1) adjustable outlet directed towards the left side cab window. One (1) adjustable outlet directed towards the right side cab window. Six (6) fixed outlets directed at the windshield. The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements. Cab/Crew Auxiliary Heater There will be no auxiliary heater provided in the rear facing seat risers. Air Conditioning A 19.10 cubic inch compressor will be installed on the engine. A roof-mounted condenser with a 78,000 BTU output at 2,400 SCFM that meets and exceeds the performance specification will be installed on the cab roof. Mounting the condenser below the cab or body would reduce the performance of the system and will not be acceptable. The condenser cover to be painted to match the cab roof. The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours. The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a metal cover painted to match the cab interior. The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications. Adjustable air outlets will be strategically located on the forward plenum cover per the following: Four (4) outlets directed towards the seating position on the left side of the cab. Four (4) outlets directed towards the seating position on the right side of the cab. Adjustable air outlets will be strategically located on the rear plenum cover per the following: Minimum of five (5) outlets directed towards crew cab area. A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be hinged with two (2) thumb latches. The air conditioner refrigerant will be R-134A and will be installed by a certified technician. Climate Control An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control. The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature. The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position. The system controller will be located within panel position #12. Gravity Drain Tubes Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.
0624005	Sun Visor, Vinyl/Fabric, AXT, Qtm, SFR/Enf	SUN VISORS There will be two (2) vinyl covered sun visors provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab. There will be a black plastic thumb latch provided to help secure each sun visor in the stowed position.
0634328	Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	GRAB HANDLES A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.
0730590	SP Lights, Engine Compt, Custom, Auto Sw, TecNiq E10-W000-1 LED	ENGINE COMPARTMENT LIGHTS There will be one (1) TecNiq®, Model E10-W000-1, 12 volt DC, white LED light(s) installed under the cab to be used as engine compartment illumination. These light(s) will be activated automatically when the cab is raised.

0819011		Fluid Check Access, Not Required, Non-NFPA/ULC 2024 Compliant	ACCESS TO ENGINE DIPSTICKS The cab will be tilted for access to the engine oil and transmission fluid dipsticks. NFPA 1900, 2024 edition, section 7.17.1 and CAN/ULC S515:2024 edition, section 5.2 requires the fire apparatus to be designed so all manufacturer's recommended routine maintenance checks of lubricant and fluid levels can be performed by the operator without lifting the cab of a tilt-cab apparatus or without the need for hand tools. The fire apparatus purchaser will realize that by requesting an exception to this aspect of NFPA 1900, this fire apparatus will not contribute to the national standardization initiative. Per the purchaser's specification, this apparatus will not be compliant to NFPA 1900 standards in this regard.
0583039		Not Required, Side Roll and Frontal Impact Protection	
0622619		Seating Capacity, 4 Belted Seats	SEATING CAPACITY The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be four (4).
0636957		Seat, Driver, Pierce PSV, Air Ride, High Back, PRIMARY, SFR/Enf	DRIVER SEAT A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat will be furnished with a 3-point, shoulder type seat belt.
0632923		Seat, Officer, Pierce PSV, Air Ride, High Back, PRIMARY, SFR/Enf	OFFICER SEAT A seat will be provided in the cab for the passenger. The seat design will be a cam action type, with air suspension. The seat back will be a high back style with 9 degree fixed recline angle and side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat will be furnished with a 3-point, shoulder type seat belt.
0002517		Not Required, Radio Compartment	
0102788		Not Required, Seat, Rear Facing C/C, LS Outboard	
0102783		Not Required, Seat, Rr Facing C/C, Center	
0102790		Not Required, Seat, Rear Facing C/C, RS Outboard	
0889201	SP	Seat, Fwd Fcng C/C, LS Otbrd, Pierce PSV,Hi-Back,Foldup,5.5" Inbrd,SECONDARY,Enf	FORWARD FACING DRIVER SIDE OUTBOARD SEAT There will be one (1) forward facing, foldup seat provided at the driver side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be a minimum of 15.00" from the front of the cushion to the face of the seat back and designed with EVC (elastomeric vibration control). The seat will be moved an additional 5.50" inboard from the standard location. The seat will be furnished with a 3-point, shoulder type seat belt.
0103319		Not Required, Seat, Forward Facing C/C, Center	
0889200	SP	Seat, Fwd Fcng C/C, RS Otbrd, Pierce PSV, Hi-Back, Foldup, 5.5" IB,SECONDARY,Enf	FORWARD FACING PASSENGER SIDE OUTBOARD SEAT There will be one (1) forward facing foldup seat provided at the passenger side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be a minimum of 15.00" from the front of the cushion to the face of the seat back and designed with EVC (elastomeric vibration control). The seat will be moved an additional 5.50" inboard from the standard location. The seat will be furnished with a 3-point, shoulder type seat belt.
0890080	SP	Panel, False Wall, Vertical, Compartment Interior	FALSE PANEL(S) There will be a total of two (2) false panel(s) provided on the exterior compartment(s). The panel (s) will be constructed of 0.090" aluminum, painted the same as the compartment. The panel(s) will be located in the (1) each inside rear facing crew cab seat risers to block off area over fenders. Match 36270.

0654721	SP	Wiring Holes, 3", Grommets, Cab Compartments	WIRING HOLES There will be wire chase holes, 3.00" in diameter, with grommets provided forward outboard corner of right side rear facing overhead cabinet in crew cab (Match 36270).
0753973	SP	Rack, Storage, Alum, Latex Gloves (3), Side Load	STORAGE BOX There will be two (2) storage rack(s) provided, designed to hold and dispense three (3) boxes of latex gloves. The rack will be constructed of aluminum and located (1) on angled portion of engine tunnel with slot openings facing forward, (1) between rear crew cab seats on rear wall with slot openings facing up. MATCH 38840. The rack will be painted to match the cab interior. Each individual storage box will be 5.00" wide x 3.50" deep x 10.00" high. A slot will be provided on the front of each box to dispense the gloves.
0818615	SP	Cabinet, Rr Fcng, LS, Overhead, 21 W x 10 H x 20 D, Lift, SFR/Enf	LEFT SIDE REAR FACING OVERHEAD STORAGE CABINET There will be an overhead rear facing cabinet installed at the raised roof within the crew cab, on the left side of the air conditioner. The cabinet will be 21.00" wide x 10.00" high x 20.00" deep with one (1) liftup door, painted to match the cab interior with a non-locking paddle latch. A pneumatic stay arm will be provided to hold the door open. The cabinet will be notched around the wireway cover. The cabinet will be constructed of smooth aluminum and painted to match the cab interior. Cabinet Light There will be one (1) white LED strip light installed horizontally above each compartment door opening. The lighting will be controlled by an automatic door switch.
0818619	SP	Cabinet, Rr Fcng, RS, Overhead, 21 W x 10 H x 20 D, Lift, Drop Btm, SFR/Enf	RIGHT SIDE REAR FACING OVERHEAD STORAGE CABINET There will be an overhead rear facing cabinet installed at the raised roof within the crew cab, on the right side of the air conditioner. The cabinet will be 21.00" wide x 10.00" high x 20.00" deep at the bottom with one (1) liftup door, painted to match the cab interior with a non-locking paddle latch. A pneumatic stay arm will be provided to hold the door open. The cabinet will be notched around the wireway cover. The cabinet will be provided with a sweep out style false floor. The clear door opening height won't be affected. The entire bottom of the cabinet will hinge down for better access within the cabinet. The hinge will be at the rear of the cabinet so that when the bottom is dropped and the door is open a large area for access will be provided. The drop down door will be held open with two (2) pneumatic cylinders. The door will be held shut with a bolt on each corner. The cabinet will be constructed of smooth aluminum and painted to match the cab interior. Cabinet Light There will be one (1) white LED strip light installed horizontally above each compartment door opening. The lighting will be controlled by an automatic door switch.
0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	SEAT UPHOLSTERY All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) will have four (4) seating positions.
0511471		No SCBA Brackets Required In Cab Seats, Imp/Vel, AXT 2010, Qtm 2010,Saber FR/Enf	
0734952		Door, Access, Front, (2) Rear Facing Seat Risers, No Heater	ACCESS DOOR An access door will be provided in the front edge of each rear facing seat riser with a drop down door. The drop down door will be provided with a Southco C2 black powder coated flush latch and painted to match the cab interior. There will be no louvers.
0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	SEAT BELTS All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards. The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position. The 3-point shoulder type belts will also include the ReadyReach® D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location. Any flip up seats will include a 3-point shoulder type belts only. To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.
0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	HELMET STORAGE PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC S515:2024 edition, section 5.2, requires a location for helmet storage be provided. There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

0647647	Lights, Dome, FRP Dual LED 4 Lts	CAB DOME LIGHTS There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab. The color of the LED's will be red and white. The white LED's will be controlled by the door switches and the lens switch. The color LED's will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.
0652881	Lights, Dome, FRP Dual LED	ADDITIONAL DOME LIGHTS There will be two (2) dual LED dome light(s) with black bezel(s) mounted in the cab and/or crew cab located centered over the forward facing rear seats, one each side. The color of the LED's will be red and white. The white LED(s) will be controlled by the door switches. The color LED(s) will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position. The light(s) may be load managed when the parking brake is applied.
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed. The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.
0727540	Spotlight, Golight/RadioRay, Model 20**4GT, LED, 1 Lt	CAB SPOTLIGHT There will be one (1) Golight/RadioRay®, Model 20**4GT, white LED spotlight located on the cab roof, Centered on the roof behind the light bar.. The spotlight will be mounted on a painted Z bracket. This light may be load managed when the parking brake is applied.
0650074	Controller, Spotlight, Golight, Wired Dash Mt, 1 Lt	Spotlight Controller There will be one (1) wired dash mounted remote provided for the spotlight.
0649964	Location, Spotlight Controller, Officer's Side	SPOTLIGHT CONTROLLER LOCATION The remote to control each spotlight will be located within reach of the officer.
0832591	SP Handlts, Pelican, 9050, 12v DC, B+, Shoulder Strap, Yellow, Qty	HAND HELD SPOTLIGHT There will be four (4) Pelican Products, Model 9050 LED, hand light(s) provided with a shoulder strap and a 12VDC direct wire vehicle mount charging base located (1) LS1 27" ceiling to top base, 23.75" left wall to mid base, (1) LS3 8.5" left wall to cntr base 7 27" ceiling to top base, (1) RS3 5.5" rt wall to mid base & 12" ceiling to top base, (1) ship loose. , WIRE TO THE BLUE SEA FUSE BLOCK DIRECT.. The light(s) will have the following features: Spot, Flood, Spot/Flood and Flashing modes 3369 lumens of maximum light output Rear taillights with dedicated switch and adjustable colors (Green, Blue, Red) IP67 Rating Flexible battery system that can run on Li-ion battery packs(included), AA Alkaline or AA NiMH cells
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	CAB INSTRUMENTATION The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership. Gauges The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance: Voltmeter gauge (volts): Low volts (11.8 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly High volts (15.5 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly Very low volts (11.3 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly Very high volts (16.0 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly

Engine Tachometer (RPM)
 Speedometer MPH (Major Scale), KM/H (Minor Scale)
 Fuel level gauge (Empty - Full in fractions):
 Low fuel (1/8 full)
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Very low fuel (1/32 full)
 Red caution indicator on the information center with steady alarm
 Amber caution light on gauge assembly
 Engine Oil pressure Gauge (PSI):
 Low oil pressure to activate engine warning lights and alarms
 Red caution indicator on the information center with steady alarm
 Amber caution light on gauge assembly
 Front Air Pressure Gauges (PSI):
 Low air pressure to activate warning lights and alarm
 Red warning indicator on the information center with a steady alarm
 Amber caution light on gauge assembly
 Rear Air Pressure Gauges (PSI):
 Low air pressure to activate warning lights and alarm
 Red warning indicator on the information center with a steady alarm
 Amber caution light on gauge assembly
 Transmission Oil Temperature Gauge (Fahrenheit):
 High transmission oil temperature activates warning lights and alarm
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Engine Coolant Temperature Gauge (Fahrenheit):
 High engine temperature activates an engine warning light and alarms
 Amber caution indicator on the information center with intermittent alarm
 Amber caution light on gauge assembly
 Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
 Low fluid (1/8 full)
 Amber indicator light in gauge dial
 All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.
 The following amber telltale lamps will be present:

Low coolant
 Trac cntl (traction control) (where applicable)
 Check engine
 Check trans (check transmission)
 Aux brake overheat (Auxiliary brake overheat)
 Air rest (air restriction)
 Caution (triangle symbol)
 Water in fuel
 DPF (engine diesel particulate filter regeneration)
 Trailer ABS (where applicable)
 Wait to start (where applicable)
 HET (engine high exhaust temperature) (where applicable)
 ABS (antilock brake system)
 MIL (engine emissions system malfunction indicator lamp) (where applicable)
 Side roll fault (where applicable)
 Front air bag fault (where applicable)

The following red telltale lamps will be present:

Warning (stop sign symbol)

Seat belt

Parking brake

Stop engine

Rack down

The following green telltale lamps will be provided:

Left turn

Right turn

Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided. Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by a single Emergency Master switch which controls all emergency warning lights including lightbars, cab warning lights, body warning lights and high beam flash if applicable.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

Engine diagnostic port

Transmission diagnostic port

ABS diagnostic port

Roll sensor diagnostic port

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel.

The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

Odometer

Trip mileage

PTO hours

Fuel consumption

Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm.

The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

0509511

Air Restriction Indicator, Imp/Vel,
AXT, Enf MUX

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

0668061	Light, Do Not Move Apparatus, Wln VTX609R Red LED	"DO NOT MOVE APPARATUS" INDICATOR There will be a Whelen, Model VTX609R, red LED indicator light with chrome trim located in the driving compartment. This light will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On." The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.
0509042	Messages, Open Dr/DNMT, Color Dsply,	DO NOT MOVE TRUCK MESSAGES Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged). The following messages will be displayed (where applicable): Do Not Move Truck DS Cab Door Open (Driver Side Cab Door Open) PS Cab Door Open (Passenger's Side Cab Door Open) DS Crew Cab Door Open (Driver Side Crew Cab Door Open) PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open) DS Body Door Open (Driver Side Body Door Open) PS Body Door Open (Passenger's Side Body Door Open) Rear Body Door Open DS Ladder Rack Down (Driver Side Ladder Rack Down) PS Ladder Rack Down (Passenger Side Ladder Rack Down) Deck Gun Not Stowed Lt Tower Not Stowed (Light Tower Not Stowed) Fold Tank Not Stowed (Fold-A-Tank Not Stowed) Aerial Not Stowed (Aerial Device Not Stowed) Stabilizer Not Stowed Steps Not Stowed Handrail Not Stowed Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.
0622798	Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	SWITCH PANELS The built-in switch panels will be located in the lower console or overhead console of the cab. The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.
0802940	Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	WIPER CONTROL Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control will be located above the ignition switch.
0834416	USB, Cab, 4, 12V DC, Dual USB Termination, NFPA1900/ULC	CAB USB There will be four (4) USB terminations with a combination USB type A & C, provided per the following: One (1) within reach of the driver One (1) within reach of the passenger Two (2) on the rear of the engine tunnel, one (1) each side. This circuit may be load managed.
0833124	SP Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt Dir, NFPA1900,2nd	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected directly to the ground on the main battery post. Wires will be capable of carrying 10 amps. Power and ground will terminate (1) upper left corner back wall above crew cab seat riser w/ stainless cover with 5' coil of wire for movement. (Motorola Radio Charger 5a). Termination will be to a Blue Sea System, Model 5025, 6 circuit fuse block. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed.

0832794	SP	Wiring, Spare, (1) 15A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st NFPA1900/ULC	SPARE CIRCUITS There will be one (1) shared 15 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be capable of carrying 10 amps The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will in RS1, (1) outlet plugs on left side 12.5" from the top of the compt mounted on a stainless steel plate and termination with 15 amp, power point plug with rubber cover Spare circuit drop #2 will in RS1, (1) outlet plugs on right side 12.5" from the top of the compt mounted on a stainless steel plate and termination with 15 amp, power point plug with rubber cover Spare circuit drop #3 will in RS1, top left corner of compartment and termination with a three (3) foot pigtail and heat shrink butt splice connectors Spare circuit drop #4 will RS3 upper right wall for flashlight mounted on rear wall and termination with a three (3) foot pigtail and heat shrink butt splice connectors Spare circuit drop #5 will not be required and termination is not required with no location Spare circuit drop #6 will not be required and termination is not required with no location Wires will be protected to meet NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.
0832998	SP	Wiring, Radio Spare, 50 A 12V DC, Batt Dir, 1st NFPA1900/ULC	SPARE RADIO CIRCUIT There will be one (1) pair of wires, including a positive and a negative for use with radio equipment, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 50 amps at 12 volts DC. Power and ground will terminate P/S crew cab rear facing overhead compartment. Termination will be with a Blue Sea twelve (12) circuit fuse block. Wires will be sized to 125% of the protection. Battery Direct loads cannot be Load Managed.
0830360		Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 2nd, NFPA1900/ULC	SPARE CIRCUITS There will be one (1) shared 15 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be capable of carrying 10 amps. The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will be located in the cab dash on the right side and termination with 15 amp, power point plug with rubber cover Spare circuit drop #2 will be located in the cab dash on the right side and termination with 15 amp, power point plug with rubber cover Spare circuit drop #3 will driver dash per IP layout and termination with 15 amp, power point plug with rubber cover Spare circuit drop #4 will left rear corner inside tray mounted between crew cab seats and termination with 15 amp, power point plug with rubber cover Spare circuit drop #5 will RS cab near powerpoints per IP LAYOUT and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #6 will not be required and termination is not required with no location Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.
0822267	SP	Wiring, Spare, 15 A 12V DC, 6 Ckt FB, Blue Sea 5025 Batt Dir 1st NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be capable of carrying 15 amps. Power and ground will terminate RS3 on flat plate on forward shelf tracks with 5' coil of wire for movement. (Key secure 7A, Flashlight 3A, TIC 5A). Termination will be to a Blue Sea System, Model 5025, 6 circuit with negative bus bar. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed

0821232		Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025 2nd NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be capable of carrying 20 amps. Power and ground will terminate RS rear facing overhead compartment, left side wall outboard close to door. (See photo). Termination will be to a Blue Sea System, Model 5025, 6 circuit with negative bus bar. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is set.
0823643	SP	Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt Dir, NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected directly to the ground on the main battery post. Wires will be capable of carrying 10 amps. Power and ground will terminate LS1 on flat plate on forward shelf tracks with 5' coil of wire for movement.. Termination will be to a Blue Sea System, Model 5025, 6 circuit fuse block. The terminal block will include a cover with circuit labels. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed.
0723827	SP	Radio, AM/FM/Media Receiver, Pioneer MVH-S720BHS	AM/FM/MEDIA RECEIVER There will be one (1) Pioneer, Model MVH-S720BHS Digital Media Receiver with Enhanced Audio Functions, Pioneer Smart Sync App Compatibility, MIXTRAX®, Built-in Bluetooth®, HD Radio™ and SiriusXM-Ready™ mounted in the cab per switch panel layout. There will be one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. Antenna will be a roof-mounted rubber antenna located in an open space, on the cab roof.
0889186	SP	Bracket, Mounting, 2 Push Buttons and 1 PTT Button, Horizontally, PS, S/S	PUSH BUTTON MOUNTING BRACKET There will be a mounting bracket provided officer side engine tunnel for the mounting of electric controls. The mounting bracket will be large enough for two (2) push buttons and one (1) intercom push to talk button. The controls and labels will be mounted horizontally, side by side. The bracket will be fabricated from polished stainless steel.
0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	INFORMATION CENTER An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing. The information center will have the following specifications: Operate in temperatures from -40 to 158 degrees Fahrenheit LCD optically bonded to hardened AR glass lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area. Programmed to read US Customary General Screen Design Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur: An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages. A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol. Home/Transit Screen This screen will display the following: Vehicle Mitigation (if equipped) Water Level (if the water level system includes compatible communications to the information center) Foam Level (if the foam level system includes compatible communications to the information center) Seat Belt Monitoring Screen Tire Pressure Monitoring (if equipped) Digital Speedometer Active Alarms

On Scene Screen

This screen will display the following and will be auto activated with pump engaged (if equipped):

Battery Voltage
Fuel
Oil Pressure
Coolant Temperature
RPM
Water Level (if equipped)
Foam Level (if equipped)
Foam Concentration (if equipped)
Water Flow Rate (if equipped)
Water Used (if equipped)
Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

Diagnostics
Faults
Listed by order of occurrence
Allows to sort by system
Interlock
Throttle Interlocks
Pump Interlocks (if equipped)
Aerial Interlocks (if equipped)
PTO Interlocks (if equipped)
Load Manager
A list of items to be load managed will be provided. The list will provide a description of the load. The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.
The screen will indicate if a load has been shed (disabled) or not shed.
"At a glance" color features are utilized on this screen.

Systems
Command Zone
Module type and ID number
Module Version
Input or output number
Circuit number connected to that input or output
Status of the input or output
Power and Constant Current module diagnostic information
Foam (if equipped)
Pressure Controller (if equipped)
Generator Frequency (if equipped)
Live Data
General Truck Data
Maintenance
Engine oil and filter
Transmission oil and filter
Pump oil (if equipped)
Foam (if equipped)
Aerial (if equipped)
Setup
Clock Setup
Date & Time
12 or 24 hour format
Set time and date
Backlight
Daytime
Night time
Sensitivity
Unit Selection
Home Screen
Virtual Button Setup
On Scene Screen Setup
Configure Video Mode
Set Video Contrast
Set Video Color
Set Video Tint
Do Not Move

The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated

Driver Side Cab Door
Passenger's Side Cab Door
Driver Side Crew Cab Door
Passenger's Side Crew Cab Door
Driver Side Body Doors
Passenger's Side Body Doors
Rear Body Door(s)
Ladder Rack (if applicable)
Deck Gun (if applicable)
Light Tower (if applicable)
Hatch Door (if applicable)
Stabilizers (if applicable)
Steps (if applicable)
Notifications
View Active Alarms

		Shows a list of all active alarms including date and time of the occurrence is shown with each alarm Silence Alarms - All alarms are silenced Timer Screen HVAC (if equipped) Tire Information (if equipped) Ascendant Set Up Confirmation (if equipped) Button functions and button labels may change with each screen.
0734854	Collision Mitigation, Not Requested	
0730766	Disable Notifications, Vehicle Information Center	INFORMATION CENTER NOTIFICATIONS DISABLED The Command Zone™ information center notifications will be disabled.
0606249	Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor	VEHICLE DATA RECORDER There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided. The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line. The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs: Vehicle Speed - MPH Acceleration - MPH/sec Deceleration - MPH/sec Engine Speed - RPM Engine Throttle Position - % of Full Throttle ABS Event - On/Off Seat Occupied Status - Yes/No by Position Seat Belt Buckled Status - Yes/No by Position Master Optical Warning Device Switch - On/Off Internal clock syncs the time and date when a laptop is connected Seat Belt Monitoring System A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display and in the center overhead of the cab instrument panel. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following: Seat Occupied & Buckled = Green LED indicator illuminated Seat Occupied & Unbuckled = Red LED indicator with audible alarm No Occupant & Buckled = Red LED indicator with audible alarm No Occupant & Unbuckled = No indicator and no alarm FAULT = Blue LED indicator illuminated The seat belt monitoring screen will become active on the Command Zone color display when: The home screen is active: and there is any occupant seated but not buckled or any belt buckled with an occupant. and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated. The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.
0763500	SP Pre-wire, Remote Push-To-Talk, David Clark, Dash Mount	PRE-WIRE REMOTE RADIO PUSH-TO-TALK There will be three (3) David Clark, remote radio Push-To-Talk switch installed at OVERHEAD PER SWITCH PANEL LAYOUT, DRIVER SIDE LOWER SWITCH PANEL (MATCH 88840), OFFICER SIDE IN THE HORIZONTAL SWITCH PANEL ON THE ENGINE TUNNEL. (MATCH 38840). This switch is being installed for customer installed intercom. The following will be included: 25.00' of two (2) conductor cable One (1) 18352G-07 five (5) pin MS connector One (1) DC Push To Talk button One (1) PTT Switch Guard

0814902	SP Camera, Pro-Vision, LS Mux, F/F, RS, LS, R, Cameras, HD HVR, View, AHD	FRONT, SIDE, AND REAR CAMERA SYSTEM The cameras will be located as follows: One (1) Analog High Definition (AHD) color video camera with microphone located at the rear of the vehicle, pointing rearward, automatically displayed when the apparatus is put into reverse. One (1) AHD color video camera with microphone located on the front center of cab windshield to match 38841, pointing forward. Record only One (1) AHD color video camera located on the right side of the cab, forward of the cab doors, pointing rearward, automatically displayed with the right turn signal. One (1) AHD color video camera located on the left side of the cab, forward of the cab doors, pointing rearward, automatically displayed with the left turn signal. The AHD camera images will be displayed on the left side vehicle information center display through the standard definition output of the hybrid video recorder (HVR). All trigger will be switch through the HVR. The HVR will be located under the forward instrument panel cover MOUNTED to cover using bolts. The HVR will include a 256 gigabit SDXC memory card and lockable cage. The HVR will record the four (4) cameras when the battery switch is turned to the on position. There will be an event button mounted in reach of the driver on the engine tunnel. The following Pro-Vision® components will be supplied: One (1) Ranger 1080p AHD Hybrid DVR Bas e KIT with (3) Cameras [256GB] DVR-908T3-256 Includes: AHD Forward Facing Camera - (2) AHD Side Cameras - Ranger AHD DVR - 256GB SDXC Card - DVR to Monitor Interface Cable - Lockable Cage - GPS Antenna - Event Marker Button - User Guide AHD Heavy Duty Camera KIT DVR-916 Includes: Camera and 10m AHD Cable
0814831	Not Required, Camera Switcher	Camera Switcher A camera switcher is not required.
0653350	Guards, Vehicle Camera(s), Painted Smooth Aluminum	VEHICLE CAMERA GUARDS There will be two (2) smooth, tapered aluminum guard(s) fastened over the cab / body camera(s) located both side cameras. The guards will be painted to match the surface they are attached to.
0890416	Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	ELECTRICAL POWER CONTROL SYSTEM The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible. Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership. Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA. Solid-State Control System A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include a see through housing, a power indicator, a status indicator and circuit indicators located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices. The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership. For increased reliability and simplified use the control system modules will include the following attributes: - Green LED indicator light for module power - Red LED indicator light for network communication stability status - Control system self test at activation and continually throughout vehicle operation - No moving parts due to transistor logic - Software logic control for NFPA mandated safety interlocks and indicators - Integrated electrical system load management without additional components - Integrated electrical load sequencing system without additional components - Customized control software to the vehicle's configuration - Factory and field programmable to accommodate changes to the vehicle's operating parameters To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:

Module circuit board will meet SAE J771 specifications
Operating temperature from -40 degrees Celsius to +70 degrees Celsius
Storage temperature from -40 degrees Celsius to +70 degrees Celsius
Vibration to 50g
IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter)
Operating voltage from eight (8) volts to 32 volts DC
The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a white WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

0896456

Prognostics, Electrical System

ELECTRICAL SYSTEM PROGNOSTICS

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

Engine oil and filter

Transmission oil and filter

0624253		Electrical System, Enforcer MUX	ELECTRICAL All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines: All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug). All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area. All electrical terminals in exposed areas will have silicon applied completely over the metal portion of the terminal. All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments. An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. The results of the tests will be recorded and provided to the purchaser at time of delivery.
0098841		Batteries, (6) Deka Grp 31, 1000 CCA each, Threaded Stud	BATTERY SYSTEM Six (6) 12 volt, Deka, Model 1231MF, maintenance free group 31 batteries that include the following features, each, will be provided: 1000 CCA (cold cranking amps) 185 reserve capacity High cycle Ref. CA of 1190 at 0 degrees Fahrenheit 185 reserve capacity Threaded studs
0591552	SP	Battery System, Single Start, Cole-Hersee 75920, Lock Out	BATTERY SYSTEM A single starting system will be provided. An ignition switch and starter button will be located on the instrument panel. MASTER BATTERY SWITCH There will be a Cole-Hersee, Model 75920, master battery switch to activate the battery system provided inside the cab within easy reach of the driver. An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.
0002698		Battery Compartment, Saber/Enforcer	BATTERY COMPARTMENTS Batteries will be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab and bolted directly to the chassis frame. The battery boxes will have reinforced sides. The battery compartments will be constructed of 0.188" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The battery hold-downs will be of a non-corrosive material. All bolts and nuts will be stainless steel. Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound. Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound. JUMPER STUDS One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.
0816197		Charger, Sngl Sys, Kussmaul, LPC 80, 091-206-12-194C-WT-XX, 80 Amp	BATTERY CHARGER There will be a Kussmaul, Model LPC 80, part number 091-206-12-194C-WT-XX, 80 amp 12 volt DC battery charger with part number 091-194-provided. There will be a, Model 091-194X-IND-WT-XX, display indicating the state of charge provided. The color of the outside trim of this display will be red. The battery charger will be wired to the AC shoreline inlet through a splice box.
0822754	SP	Location, Body, Charger, RS2	The battery charger will be located in RS2, right side body compartment, mounted on the back wall as high as practical towards the front.

0813919		Panel, Charger Display, Kussmaul, Included w/ Charger	REMOTE CONTROL PANEL - BATTERY CHARGER There will be a Kussmaul™, charger display included.
0814939		Location, Cab, Ind/Remote, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.
0811952		Not Required, Indicator/Remote Status	
0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus. The shoreline inlet(s) will include red weatherproof flip up cover(s). There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting. The shoreline(s) will be connected to the battery charger. There will be a mating connector body supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency
0026800		Shoreline Location	The shoreline receptacle will be located on the driver side of cab, above wheel.
0560808		Cover, Protection over Battery Charger, Smooth Aluminum	BATTERY CHARGER COVER A removable cover will be fabricated and installed over the battery charger for protection. The cover will be made out of smooth aluminum material.
0082225		Coating, UL-LX, Inside Battery Boxes, Black	UL-LX COATING FOR BATTERY BOXES The battery boxes on both sides of cab will have be sprayed with black UL-LX polyurethane/polyurea elastomer abrasive resistant material on all interior side walls and on the bottom surface.
0647729		Alternator, 320 amp, Delco Remy 40SI	ALTERNATOR A Delco Remy®, Model 40SI, alternator will be provided. It will have a rated output current of 320 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.
0805985	SP	Cover, Fuse Block, Polished S/S	COVER OVER FUSE BLOCK There will be one (1) polished stainless steel cover(s) provided over the fuse block(s) located over blue sea box behind driver seat.
0833372	SP	Cover, CORE Controller, Vented, Finish	COVER OVER MODULE & WIRING There will be a smooth aluminum painted to match cab interior color cover(s) provided over the Whelen® Core® controller located over Core C399 controller (behind officer seat). The cover will have knockouts for ventilation.

0092582	Load Manager/Sequencer, MUX	ELECTRONIC LOAD MANAGER An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system. For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed. The system will include the following features: System voltage monitoring. A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off. Sixteen available electronic load shedding levels. Priority levels can be set for individual outputs. High Idle to activate before any electric loads are shed and deactivate with the service brake. If enabled: "Load Man Hi-Idle On" will display on the information center. Hi-Idle will not activate until 30 seconds after engine start up. Individual switch "on" indicator to flash when the particular load has been shed. The information center indicates system voltage. The information center, where applicable, includes a "Load Manager" screen indicating the following: Load managed items list, with priority levels and item condition. Individual load managed item condition: ON = not shed SHED = shed SEQUENCER A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator. For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed. Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation. When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order. Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals: Cab Heater and Air Conditioning Crew Cab Heater (if applicable) Crew Cab Air Conditioning (if applicable) Exhaust Fans (if applicable) Third Evaporator (if applicable)
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	HEADLIGHTS There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille: the outside light on each side will contain a part number 055***1 low beam module the inside light on each side will contain a part number 055***1 high beam module the headlights to include chrome bezels The low beam lights will be activated when the headlight switch is on. The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.
0625953	Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Enf/Sab	DIRECTIONAL LIGHTS There will be two (2) Whelen 600 series, LED combination directional/marker lights provided. The lights will be located on the outside cab corners, next to the headlights. The color of the lenses will be clear.
0805325	Light, Directional, Wln M62T* LED, 15 Degree Angle Bracket, Additional	ADDITIONAL DIRECTIONAL LIGHT There will be two (2) Whelen®, Model M62T*, amber LED directional lights provided behind the cab each side. The lens color(s) to be the same as the LEDs. Each light will be surface mounted in a 15 degree angled bracket with chrome housing. The flash pattern of the directional lights will be Steady On (Arrow).
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	INTERMEDIATE LIGHT There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

0631711	SP	Lights, Clearance/Marker/ID, Front, Truck-Lite 33250Y LED 0.75" 5 Lts	CAB CLEARANCE/MARKER/ID LIGHTS There will be five (5) Truck-Lite, Model 33250Y 0.75" amber LED lights provided recessed into the header above the windshield in the following locations: Three (3) identification lights will be in the center no less than 6.00" apart and no more than 12.00" apart at the same height. One (1) clearance/marker light will be installed on the driver's side as close to the outside of the cab as practical. One (1) clearance/marker light will be installed on the passenger's side as close to the outside of the cab as practical.
0625210		Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	FRONT CAB SIDE CLEARANCE/MARKER LIGHTS There will be two (2) Truck-Lite®, Model 19036Y, amber LED lights installed to the outside of the chrome wrap around bezel, one (1) on each side of the cab. The lights will activate as additional directional lights with the corresponding directional circuit.
0563675		Lights, Clearance/Marker/ID, Rear, Truck-Lite 33050R LED 7Lts	REAR CLEARANCE/MARKER/ID LIGHTING There will be three (3) Truck-Lite®, Model 33050R, LED lights used as identification lights recessed and located at the rear of the apparatus per the following: As close as practical to the vertical centerline Centers spaced not less than 6.00" or more than 12.00" apart Red in color All at the same height There will be two (2) Truck-Lite, Model 33050R, LED lights recessed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following: To indicate the overall width of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the rear All at the same height There will be two (2) Truck-Lite, Model 33050R, LED lights recessed on the side of the apparatus as marker lights as close to the rear as practical per the following: To indicate the overall length of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the side All at the same height There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground. There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground. Per FMVSS 108 and CMVSS 108 requirements.
0804514		Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	REAR FMVSS LIGHTING The rear stop/tail and directional lighting included in the rear tail light housing will include the following: Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern. The lens color(s) to be clear.
0806466		Lights, Backup, WIn M62BU, LED, For Tail Lt Housing	There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.
0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt	LICENSE PLATE BRACKET One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus. One (1) white LED light with chrome housing will be provided to illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.
0556842		Bezels, WIn, (2) M6 Chrome Pierce, For mtg (4) WIn M6 lights	LIGHTING BEZEL There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.
0729466	SP	Light, Brake Lt, Additional, TecNiq T11-R*00-1, Third Brake	ADDITIONAL BRAKE LIGHT There will be one (1) TecNiq part number T11-R*00-1, 1.28" high x 15.52" wide x 0.48" deep brake light(s) with red LEDs, and chrome trim, installed onto the rear of the body, Over B1 Door. The lens color(s) to be clear. The light will activate when the service brake is depressed.

0589905		Alarm, Back-up Warning, PRECO 1040	BACK-UP ALARM A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.
0648630		Lights, Perimeter Cab, TecNiq E10-WS00-1 LED 4Dr, Angled Brkt	CAB PERIMETER SCENE LIGHTS There will be four (4) TecNiq Model E10-WS00-1, 6.44" long x 1.38" high x 1.00" deep 12 volt DC weatherproof LED lights with a fabricated aluminum 45 degree brackets provided under the cab and crew cab access areas: One (1) for the driver's access. One (1) for the passenger's side front cab access door. One (1) for the passenger's side crew cab access door. One (1) for the driver's side crew cab access door. These lights will be activated automatically when the battery switch is on and the adjacent doors are opened or by the same means as the body perimeter lights.
0780178		Lights, Perimeter Pump House, TecNiq E10-WS00-1 6.39" LED 2lts	PUMP HOUSE PERIMETER LIGHTS There will be two (2) TecNiq, Model E10-WS00-1, 1.39" high x 6.39" long 12 volt DC LED light with white LEDs provided under the pump panel running boards, one (1) each side. The lights will be controlled by the same means as the body perimeter lights.
0780176		Lights, Perimeter Body, TecNiq E10-WS00-1 6.39" LED 2lts, Rear Step	BODY PERIMETER SCENE LIGHTS There will be two (2) TecNiq, Model E10-WS00-1, 1.39" high x 6.39" long 12 volt DC LED lights white LEDs provided at the rear step area of the body, one (1) each side shining to the rear. The perimeter scene lights will be activated when a switch within reach of the driver is activated and the marker lights are activated.
0780173	SP	Lights, Perimeter, TecNiq E10-WS00-1 6.39" LED	ADDITIONAL PERIMETER LIGHTS There will be four (4) TecNiq, Model E10-WS00-1, 1.39" high x 6.39" long light(s) with white LEDs provided under mounted on the forward edge of the wheel wells, just behind RS3 and LS3, also at the rear edge of the wheel wells under RS1 and LS1. These additional lights will be controlled with the other body perimeter lights.
0896454		Enhanced Software for Perimeter Lts	ENHANCED SOFTWARE FOR PERIMETER LIGHTS All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected. The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.
0793062		Lights, Step, P25 LED 4lts, Control Feature	STEP LIGHTS There will be four (4) white LED step lights will be provided. One (1) step light will be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard. These step lights will be activated when the marker lights are on and the parking brake is applied.. All steps on the apparatus will be illuminated per the current edition of applicable NFPA standards.
0781587	SP	Light, Step, Additional, TecNiq E10-W000-1 LED	ADDITIONAL STEP LIGHT There will be two (2) TecNiq, Model E10-W000-1, 1.37" high x 6.50" long x 1.00" deep 675 lumens 12 volt DC white LED step lights with all wiring totally enclosed provided mounted under the upper rear body step facing down above the rear compartment. The additional lights will be activated by the same means as the standard step lights.
0776357		Light, Visor, Wln, 12V P*H2* Pioneer, Cnt Feature, 1st	12 VOLT LIGHTING There will be two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light(s) with a combination of flood and spot optics provided on the front visor, one (1) on the driver's side and one (1) on the passenger's side with 8 degree outward bracket. The housing(s) painted parts of this light assembly to be white. The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the left side pump panel and by a switch at the passenger's side switch panel. These light(s) may be load managed when the parking brake is applied.
0768059		Lights, Wln, PCPSM2* Pioneer, 12 VDC, 2nd	12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, RS UPPER REAR CREW CAB. The surface mount housing(s) will be provided with a chrome cover. The light(s) will be activated by a switch at the driver's side switch panel, by a switch at the left side pump panel and by a switch at the passenger's side switch panel. The light(s) may be load managed when the parking brake is applied.

0768061		Lights, WIn, PCPSM2* Pioneer, 12 VDC, 1st	12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, LS UPPER REAR CREW CAB. The surface mount housing(s) will be provided with a chrome cover. The light(s) will be activated by a switch at the driver's side switch panel, by a switch at the left side pump panel and by a switch at the passenger's side switch panel. The light(s) may be load managed when the parking brake is applied.
0766906		Lights, WIn, PCPSM1*, Pioneer, 12 VDC, 1st	12 VOLT LIGHTING There will be two (2) Whelen® Model PCPSM1*, 10,444 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, upper rear bulkhead, one each side. The light(s) will include black housing(s) with a chrome cover. The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by a switch in a recessed cup located at the driver's side rear bulkhead. The light(s) may be load managed when the parking brake is applied.
0831800	SP	Lights, Hose Bed, Below Alum Cvr, TecNiq E10-W000-1 LED 4lts	LIGHTS HOSE BED/HOSE BED COVER There will be four (4) TecNiq, Part number E10-W000-1, white LED lights provided to illuminate the hose bed area. Two (2) LED lights will be installed at the front of the hose bed/storage area and will illuminate the hose bed/storage area. Two (2) LED lights will be installed on the hose bed covers. One (1) on the driver side cover, and one (1) on the passenger side cover. The lights will be mount under the covers, near the location of the handle. Both lights will have a protective tread plate shroud. The lights will be activated when the battery switch is on, and when the hosebed cover is raised.
0645677		Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	
0892704		Lights, Walk Surf, 8-P25 LED, Hose Bed Cover, Overall Height Restrictions	WALKING SURFACE LIGHT There will be eight (8) P25 12 volt DC LED lights with chrome housing provided on the hose bed cover to illuminate the walking surface. The lights will be located near the hose bed cover hinges evenly spaced four (4) on each side. The lights will be activated when the body step lights are on.
0060115		Pumper, Medium, Aluminum, 2nd Gen	
0554271		Body Skirt Height, 20"	
0081452	SP	Tank, Water, 550 Gallon, Poly, Med	WATER TANK Booster tank will have a capacity of 550 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated. Tank joints and seams will be nitrogen welded inside and out. Tank will be baffled in accordance with the current edition of applicable NFPA standards. Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments. Longitudinal partitions will be constructed of .38" polypropylene plastic and will extend from the bottom of the tank through the top cover to allow for positive welding. Transverse partitions will extend from 4.00" off the bottom of the tank to the underside of the top cover. All partitions will interlock and will be welded to the tank bottom and sides. Tank top will be constructed of .50" polypropylene. It will be recessed .38" and will be welded to the tank sides and the longitudinal partitions. Tank top will be sufficiently supported to keep it rigid during fast filling conditions. Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes. A sump that will be sized dependent on the tank to pump plumbing will be provided at the bottom of the water tank. Sump will include a drain plug and the tank outlet. Tank will be installed in a fabricated cradle assembly constructed of structural steel. Sufficient crossmembers will be provided to properly support bottom of tank. Crossmembers will be constructed of steel bar channel or rectangular tubing. Tank will "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on. Stops or other provision will be provided to prevent an empty tank from bouncing excessively while moving vehicle. Mounting system to be approved by the tank manufacturer.
0003405		Overflow, 4.00" Water Tank, Poly	Fill tower will be constructed of 0.50" polypropylene and will be a minimum of 8.00" wide x 14.00" long. Fill tower will be furnished with a 0.25" thick polypropylene screen and a hinged cover. An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

0028104	Foam Cell Required	
0729265	SP Drain, Tank - 2.50" @ Sump, Tee Handle Below Body	2.50" TANK DRAIN A 2.50" tank drain will be installed with a 2.50" ball valve and tee handle control. The valve shall be installed close to the water tank sump to minimize the chance of freezing. The tee handle control will be located underneath the forward section of the left front compartments and will be properly labeled. The valve and control handle will be installed in a manner that neither one could be hit during normal operation.
0633066	Sleeve, Through Tank	SLEEVE PLUMBING THROUGH TANK One (1) sleeve will be provided in the water tank for a 3.00" pipe to the rear.
0553729	Not Required, Restraint, Water Tank, Heavy Duty	
0003429	Not Required, Direct Tank Fill	
0003424	Not Required, Dump Valve	
0048710	Not Required, Jet Assist	
0030007	Not Required, Dump Valve Chute	
0514778	Not Required, Switch, Tank Dump Master	
0126633	Hose Bed, Aluminum, Pumper	HOSE BED The hose bed will be fabricated of 0.125"-5052 aluminum with a nominal 38,000 psi tensile strength. Upper and rear edges of side panels will have a double break for rigidity, a split tube finish will not be acceptable. The upper area at the rear of the hose bed will be covered with brushed stainless steel to prevent damage to painted surface when hose is removed. Flooring of the hose bed will be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats will be a minimum of 0.50" x 4.50" with spacing between slats for hose ventilation.
0723549	Painted Hose Bed	The hose bed interior walls will be painted to match the lower body color.
0003481	Hose Bed Capacity, Special	Hose bed will accommodate Left to right- HB#1 50' of 2.50", x 3 BUNDLES (6.25" clear wall to divider) #2 300' OF 1.75" DJ HOSE #3 400' of 2.50" #4 400' of 2.50" #5 800' of 5.00" backboard compartment.
0083488	Divider, Hose Bed, .25" Unpainted	HOSE BED DIVIDER Three (3) hosebed dividers will be furnished for separating hose. Each divider will be constructed of a 0.25" brushed aluminum sheet. Flat surfaces will be sanded for uniform appearance or constructed of brushed aluminum. Divider will be fully adjustable by sliding in tracks, located at the front and rear of the hose bed. Divider will be held in place by tightening bolts, at each end. Acorn nuts will be installed on all bolts in the hose bed which have exposed threads.
0815195	Cover, Hose Bed, Alum Treadplate, Bolted T-Bar	HOSE BED COVER A two (2) section hose bed cover, constructed of .125" bright aluminum treadplate will be furnished. The cover will be hinged with full length stainless steel piano hinge. The sides will be slanted down with the center of the cover supported by a stationary modular bridgework support. The cover will be reinforced so that it can support the weight of a man walking on the cover. The cover is designed with the left cover opening first. If access to water tank fill tower is blocked by the hose bed cover, then a hinged door will be provided in it so that tank may be filled without raising cover doors. Chrome grab handles and gas filled cylinders will be provided to assist in opening and closing the cover. Two (2) rubber latches will be provided to hold the cover in the stowed position. A handrail is to be provided at the rear, in the center of the support, to assist in opening the cover. The hose bed cover will be connected to the Do Not Move Truck indicator. The light will be activated if the cover is not in the stowed position and the parking brake is released.

0822063	SP	Hose Restraint, Hose Bed, Serge Ferrari, Rear, Separate From Top	At the rear of the hose bed, a red Serge Ferrari flame retardant material flap will be provided with quarter turn at the top. At the bottom of the flap, fixed style seat belt buckle will be provided. The bottom of the flap will be chain weighted.
0010133		Cross-Divider, Hose Bed	A cross-divider will be provided just behind the fill tower. The divider will be bolted to the side sheet.
0581892		Divider, .25", Unpainted, Permanent	ADDITIONAL HOSE BED DIVIDER There will be two (2) additional hose bed dividers furnished. Each divider will be constructed of a 0.25" brushed aluminum sheet. Partition will be permanently installed and located LS hosebed #1, leave 6.25" clear from LS side sheet, RS hosebed, leave 7.00" clear from RS side sheet. Acorn nuts will be installed on all bolts in the hose bed which have exposed threads. Flat surfaces will be sanded for uniform appearance or constructed of brushed aluminum.
0889285	SP	Shelf, Hinged, In Hose Bed, Between Side Sheet, Crosslay Style Grating	SHELF, HINGED IN HOSE BED There will be two (2) hinged shelves, constructed of crosslay style aluminum grating (aluminum with .75" diameter holes) , provided for hose or equipment storage inside the hose bed located LS deadlay compartment, equal vertical spacing from floor to HB cover, Divider has a "Z" bracket as a stop for the shelf no an L bracket. See Photos MINIMUM 6.50" WIDE, MATCH 38840 EXACTLY on the left side. The shelf will be attached to the hose bed side sheet.
0608609	SP	Stop, Hose Bed, Size	STOP In the hosebed FORWARD PORTION OF HB#1, a PLACED 76.00" FROM THE REAR OF THE HOSEBED TOWARDS THE FRONT OF THE TRUCK aluminum stop will be provided and secured to a hosebed divider and side sheet. This stop will help prevent movement of equipment while in transit.
0060884		Stay Arm, Hose Bed Cover, Mechanical	HOSE BED STAY ARM COVER An additional positive stay arm will be provided at the front of the cover. The additional stay arms will be a flat bar, mechanical design.
0822274		Location/Quantity, Seat Belt Buckles, Bottom of Hose Bed	SPECIAL SEAT BELT BUCKLE LOCATION/QUANTITY BOTTOM The bottom of the hose bed will have three seat belt buckles . The seat belt buckles at the bottom of the hose bed will be located (2) fixed and one hinged by hosebed backboard compartment all matching 38840.
0013512		Running Boards, 12.75" Deep	RUNNING BOARDS Running boards will be fabricated of 0.125" bright aluminum treadplate. Each running board will be supported by a welded 2.00" square tubing and channel assembly, which will be bolted to the pump compartment substructure. Running boards will be 12.75" deep and spaced 0.50" away from the pump panel. A splash guard will be provided above the running board treadplate.
0689497		Tailboard, 24" & 8" Deep, T-Shaped, Angled Corners	TAILBOARD The tailboard will also be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly. The tailboard area will be 24.00" deep in the center area and 8.00" deep to the rear of the side compartments. The tailboard will be T-shaped. The outboard sides of the tailboard will be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard. The exterior side will be flanged down and in for increased rigidity of tailboard structure.
0818176		Wall, Rear, Smooth Aluminum/Body Material, 16" Inset	REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL The rear facing surfaces of the center rear wall will be smooth aluminum. The bulkheads, the surface to the rear of the side body compartments, will be smooth and the same material as the body. The center rear wall will be inset 16" from the body bulkhead rear walls. Any inboard facing surfaces below the height of the hosebed will be aluminum diamondplate.
0889214		Tow Eyes, w/Tow Bar, 2G Pumper	REAR TOW EYES Two (2) tow eyes, which are an integral part of the body mounting substructure, will be installed below the rear of the truck. The tow eyes will be of adequate strength to allow the truck to be pulled from the eyes. REAR TOW BAR One (1) tow bar will be installed under the tailboard. The tow bar assembly will be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow bar design will have been tested and evaluated using finite element analysis techniques.

0590934	Hose Restraint, Running Board, Straps, FV Fastener	RUNNING BOARD HOSE RESTRAINT A pair of 2.00" wide black nylon straps with seat belt buckle fasteners will be provided for each hose tray to secure the hose during travel. There will be Two (2) hose trays located one (1) in each side running board.
0014112	Tray, Hose, Running Board, Special Capacity, Predefined	HOSE TRAY Two (2) hose trays will be recessed one (1) in each side running board. Capacity of the tray will be 30' of 5.00" hose. Rubber matting will be installed on the floor of the tray to provide proper ventilation. Drain holes will be provided.
0895820	Construction, Compt, Alum, 2G Pumper	COMPARTMENTATION Body and compartments will be fabricated of 0.125", 5052-H32 aluminum. Side compartments will be an integral assembly with the rear fenders. Circular fender liners will be provided for prevention of rust pockets and ease of maintenance. Side compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The side compartment door opening will be framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle. Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel. The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded. Side compartment covers will be separate from the compartment tops. Front facing compartment walls will be covered with bright aluminum treadplate. All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury. UNDERBODY SUPPORT SYSTEM Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load will be provided. The backbone of the support system will be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads. Forward to the rear axle, the support system will include "L"-shaped support members bolted to the chassis frame rails. These welded support members will include vertical formed channels, horizontal structural channels, and support gussets. These parts extend from the chassis frame outward underneath the body. Rearward to the rear axle, the body support system will include two rearward facing "L"-shaped support members bolted to the chassis frame rails. These support members will be connected to the two body supporting crossmembers forming a boxed foundation for the rear body support system. Steel upper platform decks will be mounted on the top of these support members to create a floating substructure which will result in a 500 lb equipment support rating per lower compartment. All structural components of this system will be made from high strength 50K steel plate material or structural steel componentry. The steel frames as well as the steel vertical angles will be treated with an epoxy E-coat or equivalent to provide resistance to corrosion and chemicals as standard. The floating substructure will be separated from the horizontal members with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body. Isolators will have a broad load range, proven viability in vehicular applications, be of a fail-safe design and allow for all necessary movement in three (3) transitional and rotational modes. The neoprene isolators will be installed in a pattern which assimilates a three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body. A design with body compartments hanging on the chassis in an unsupported fashion will not be acceptable. AGGRESSIVE WALKING SURFACE All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards. LOUVERS Louvers will be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they will be formed into the metal and not added to the compartment as a separate plate. TESTING OF BODY DESIGN Body structural analysis will be fully tested. Proven engineering and test techniques such as finite element analysis, strain gauging, and model analysis will be performed with special attention given to fatigue, life and structural integrity of the body and substructure. Body will be tested while loaded to its greatest in-service weight. The criteria used during the testing procedure will include: Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb. Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions. Driving the vehicle at 35 mph on a washboard road. Driving the vehicle at 55 mph on a smooth road. Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement. Evidence of actual testing techniques will be made available upon request.

0063610	LS 152" Lap, Full Height Compts, FDLER	LEFT SIDE COMPARTMENTATION The left side compartmentation will consist of three lap door compartments. A full height, vertically hinged, single door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 34.50" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 28.63" wide x 61.88" high. A horizontally hinged, single lift-up door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 59.25" wide x 27.00" high. A full height, vertically hinged, double door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 43.50" wide x 62.88" high. The interior height of the compartments will be measured from the compartment floor to the ceiling. The depth of the compartments will be measured from the back wall to the inside of the door frame. Closing of the doors will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand. The vertically hinged doors will be furnished with a positive door holder. The lift-up door will be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There will be a field adjustable, three-position bracket mounted on the vertical side door opening that will allow the door to be held open at 87, 90, or 93 degrees.
0063624	RS 152" Lap, Full Height Compts, FDLER	RIGHT SIDE COMPARTMENTATION The right side compartmentation will consist of three lap door compartments. A full height, vertically hinged, single door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 34.50" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 28.63" wide x 61.88" high. A horizontally hinged, single lift-up door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 59.25" wide x 27.00" high. A full height, vertically hinged, double door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 43.50" wide x 62.88" high. The interior height of the compartments will be measured from the compartment floor to the ceiling. The depth of the compartments will be measured from the back wall to the inside of the door frame. Closing of the doors will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand. The vertically hinged doors will be furnished with a positive door holder. The lift-up door will be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There will be a field adjustable, three-position bracket mounted on the vertical side door opening that will allow the door to be held open at 87°, 90°, or 93°.
0063911	Doors, Lap w/ "D" Handles - Side Compartments	SIDE COMPARTMENT DOORS All hinged compartment doors will be lap style with double panel construction and will be a minimum of 1.50" thick. The doors will be made out of the same material as the body. To provide additional door strength a "C" section reinforcement will be installed between the outer and interior panels. Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment. All compartment doors will have polished stainless steel continuous hinge with a pin diameter of 0.25" that is bolted or screwed on with stainless steel fasteners. All door locking mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area. Doors will be latched with recessed, polished stainless steel "D" ring handles and FMVSS approved door latching mechanisms. To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.
0083700	Rear, Rollup, 37.75" F-F, 25.88" D	REAR COMPARTMENTATION A roll-up door compartment above the rear tailboard will be provided. The interior dimensions of this compartment will be 40.00" wide x 40.63" high x 25.88" deep. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartment will be calculated with the compartment door closed. A louvered, removable access panel will be furnished on the back wall of the compartment. The rear compartment will be open into the rear side compartments. The clear door opening of this compartment will be a minimum of 33.25" wide x 30.88" high. Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

0594003	Door, Amdor, Rollup, Rear Compartment	ROLLUP REAR COMPARTMENT DOOR The rear compartment will have a rollup door. The door will be double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR™ brand rollup doors. The door will be constructed using 1.00" extruded double wall aluminum slats which will feature a flat smooth interior surface to provide maximum protection against equipment hang-up. The slats will be connected with a structural driven ball and socket hinge designed to provide maximum curtain diaphragm strength. Mounting and adjusting the curtain will be done with a clip system that connects the curtain to the balancer drum allowing for easy tension adjustment without tools. The slats will be mounted in reusable slat shoes with positive snap-lock securement. Each slat will incorporate weather tight recessed dual durometer seals. One (1) fin will be designed to locate the seal within the extrusion. The second will serve as a wiping seal which will also allow for compression to prevent water ingress. The door will be mounted in a one (1)-piece aluminum side frame with recessed side seals to minimize seal damage during equipment deployment. All seals including side frames, top gutters and bottom panel are to be manufactured utilizing non-marring materials. Bottom panel flange of rollup door will be equipped with two (2) cut-outs to allow for easier access with gloved hands. A polished stainless steel lift bar with locking key latches to be provided for each roll-up door. The keys to be Model 751 to match all compartment and cab doors. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals. All injection molded rollup door wear components will be constructed of Type 6 Nylon. The door will have a 3.00 inch diameter balancer/tensioner drum to assist in lifting the door. The header for the rollup door assembly will not exceed 4.00". A heavy-duty magnetic switch will be used for control of open compartment door warning lights.
0554995	No Body Modification Required	
0650792	Scuffplate, S/S Around Air Bottle Compt Openings, Qty	SCUFFPLATE Four (4) scuffplates will be furnished around the opening for the air bottle compartment(s). The scuffplate(s) will be constructed of brushed stainless steel and provided for the each SCBA door air bottle compartment(s).
0045159	Guard, Drip Pan, S/S, L-Shape, Cover Bottom and Rear of Rollup Door Roll	DOOR GUARD The one (1) compartment door will include an L-shaped guard designed to protect the bottom and interior side of the roll-up door from damage when in the retracted position and contain any water spray while the door is being opened. The guard will be fabricated from stainless steel and installed B1.
0003915	Keyed Locks for Latches, Lap Doors (#751 Lock to Match Cab)	KEYED LOCK(S) A keyed lock will be furnished for six (6) compartment doors. The compartmentation, to have a keyed lock, will be LS1, LS2, LS3, RS1, RS2, RS3.
0731558	Pull Strap for Liftup Doors	LIFTUP DOOR PULL STRAPS There will be two (2) compartment doors provided with pull straps. The pull straps will be 12.00" long and black in color. The straps will be installed directly to the inside of the liftup door. Hook and loop fabric will be mounted to the inside of the rollup door and on the pull straps to allow the strap to be retained inside the compartment while being closed. The liftup door compartments to have these straps will be LS2 RS2.
0003919	Reverse Hinge Compartment Door	REVERSE HINGED DOOR The two (2) compartment doors, located on the LS3 and RS3 compartment(s), will have the hinge located opposite of the standard location.
0021603	Scuffplate, Brushed S/S Bottom of Door Frame	DOOR FRAME SCUFFPLATE Six (6) scuffplates will be provided for the lower door frame(s) each side compartment. Each scuffplate will be brushed stainless steel with a .38" lip down.
0616670	Lights, Compt, Pierce LED, Dual Light Strips, Each Side of Door, Pumper/Tanker	COMPARTMENT LIGHTING There will be seven (7) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in all body compartment (s). Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb. Opening the compartment door will automatically turn the compartment lighting on.

0691876	Brackets/Clamps, For Strip Lighting In Compartments, IPO Velcro	BRACKETS/CLAMPS, COMPARTMENT LIGHTS All LED light strips, in all locations will be mounted with brackets, part #64-0766-0063, in place of the standard Velcro®.
0739915	Hatch, (2) Liftup, Pumper	HATCH COMPARTMENT Two (2) hatch compartments will be provided above the left and right side compartments. Each hatch compartment will extend the full length of the side body compartmentation x 13.75" wide. The height of each hatch compartment will match the side sheet height. Sides of the compartment will be constructed of the same material as the body and painted job color. A 2.00" tall formed aluminum painted to match the lower body color will be provided to cover the seam between the top of the body panel and the bottom of the hatch compartment. The vertical outboard seam at the center of the compartment will be smooth weld finished and painted. The top of the compartment will be constructed of bright aluminum treadplate. Two (2) lift-up, bright aluminum treadplate doors will be provided on the top of the compartment. Doors will have lipped edges with a rubber seal for weather resistance. Each door will have a socket and plunger type latch and chrome grab handle. Doors will be hinged on the outboard side and will utilize a gas strut (or rubber covered chain on narrow width doors) Compartment will drain to an area below the hose bed. Black Turtle Tile mattin shall be provided to help prevent stored equipment in pooled water.
0730092	Not Required	
0805983	Lights, Hatch Compt, 42", LED, Light Strips, 2-Sides 4 Dr, Opposite Hinge Side	COMPARTMENT LIGHTING There will be a 42.00" 12 volt DC strip light with white LEDs mounted on the interior, opposite of the hinged side of each door. The lights will be mounted with mechanical fasteners. The lights will be installed as high as practical so as to not interfere with the compartment opening, and to provide protection from stowing equipment. The lights will be activated when the battery switch is on and the door is opened.
0687135	Shelf Tracks, Unpainted	MOUNTING TRACKS There will be six (6) sets of tracks for mounting shelf(s) in LS1, LS3, RS1, RS2, RS3 and B1. These tracks will be installed vertically to support the adjustable shelf(s). The tracks will be unpainted with a natural finish.
0600350	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations	ADJUSTABLE SHELVES There will be nine (9) shelves with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum with a brushed finish with 2.00" sides. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by .12" thick stamped plated brackets and bolts. The location(s) will be in LS1 at the depth transition point, in RS2 centered between the floor and the ceiling, in RS3 centered between the floor and the ceiling, in RS1 in the lower third, in RS3 in the lower third, in RS1 in the upper third, in RS1 in the upper third, in B1 centered between the floor and ceiling and in LS3 in the upper third.
0620552	SP Tray, 250 lb Slide-out, 2" Sides - Adj. Height, Each	SLIDE-OUT ADJUSTABLE HEIGHT TRAY There will be two (2) slide-out trays provided. Each tray will have 2.00" high sides and a capacity rating of up to 250 lb in the extended position. Each tray will be with a brushed finish. Each tray will be mounted on a pair of side mounted slides. The slide mechanisms will have ball bearings for ease of operation and years of dependable service. The slides will be mounted to shelf tracks to allow the tray to be adjustable up and down within the designated mounting location. An automatic lock will be provided for both the in and out tray positions. The lock trip mechanism will be located at the front of the tray and will be easily operated with a gloved hand. The tray(s) will be located (1) LS3 with bottom tray 3" from top of Turtle Tile, (1) LS3 with bottom tray 14.5" from top of Turtle Tile.
0540317	Toolboard, Swing-out, Alum, .188", Peg Board	SWING OUT TOOLBOARD A swing out aluminum toolboard will be provided. It will be a minimum of 0.188" thick with .281" diameter holes in a pegboard pattern with 1.00" centers between holes. A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard. The board will be mounted on a pivoting device at the front of the compartment on the top and bottom to allow easy movement in and out of the compartment. The maximum tool load will be 400 lb. The board will have positive lock in the stowed and extended position. The board will have a D-ring handle to secure it in the stowed position. The board will be mounted stationary within the compartment. One (1) toolboard(s) will be provided. The toolboard(s) will be with a brushed finish and installed LS2 full height and width.
0726441	Partition, Trans Rear Compt	PARTITION, TRANSVERSE REAR COMPARTMENT Two (2) partitions will be bolted in place to separate the left and right side rear compartments from the rear tailboard compartment. The partition will be body material with a dual action finish.

0726403		Partition, Vertical Compt, Special Height	VERTICAL COMPARTMENT PARTITION One (1) partition will be bolted in in LS1 under shelf at transition point, 25" tall and centered (23.5" from left and right walls). Each partition will be LS1 vertical height of the compartment. Each partition will be with a dual action finish.
0659383		Matting, Turtle Tile w/Ramp, Compartment Floors	MATTING, COMPARTMENT FLOOR Turtle Tile compartment matting will be provided in eight (8) compartments on the compartment floor. The locations are, all floors including upper hatch compartments. The Turtle Tile will be black and the leading edge of the matting will include the beveled edge. The beveled edge will be yellow.
0028026		Matting, Turtle Tile, Compartment Shelving Only	MATTING, COMPARTMENT SHELVING Turtle Tile compartment matting will be provided in 11 shelves. The locations are, all shelves and trays. The color of the Turtle Tile will be black.
0027090		Tracks, Equipment Mounting, Horizontal	MOUNTING TRACKS There will be three (3) sets of tracks for mounting equipment. These tracks will be installed horizontally on the back wall of the compartment(s). The compartment(s) with mounting tracks will be RS3 (17"L, 4" off lft wall, 10.5" & 26" ceiling to cntr ea track), LS3 (36"L, 4" off lft wall, 7"rt wall 10.5" & 26" ceiling to cntr ea track) LS1 (26"L, 4" off both walls 10.5" & 26" ceiling to cntr each track).
0727025	SP	Pocket, Storage, Circular, Mounted In Compartment	CIRCULAR STORAGE POCKET There will be a circular storage pocket provided for storage of monitor nozzle. The pocket will be approximately per attached photos" in diameter with per attached photos, 6.5 Diameter" tall sides. The pocket will be constructed of aluminum and mounted LS3 left side so base of bracket is 15" from ceiling. (Reference 38840 Final Inspection report).
0831799	SP	Pocket, Open Top/Bottom, Hat Bracket, Aluminum, Misc Storage, In Compartment	STORAGE POCKET There will be an open storage pocket provided for miscellaneous storage. It will have a "hat bracket" design with an open top and bottom and mounting flanges on each side. It will be approximately Match dimensions from 38840 option 888317 (12" W x 5.5" D x 7" High with a 1.5" lip each side to secure to wall. Mount so bottom of pocket is 21.5" from ceiling. Reference 38840 final inspection report in size. It will be constructed of 0.125" aluminum and mounted in RS1 upper left corner mounted so bottom of pocket is 21.5" from ceiling. Reference 38840 final inspection report.
0004016		Rub Rail, Aluminum Extruded, Side of Body	RUB RAIL Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail. Trim will be 2.12" high with 1.38" flanges turned outward for rigidity. The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.
0784811		Fender Crowns, Rear, Stainless, w/Removable Liner	BODY FENDER CROWNS Polished stainless steel fender crowns will be provided around the rear wheel openings with a dielectric barrier will be provided between the fender crown and the fender sheet metal to prevent corrosion. The fender crowns will be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion. Rubber welting will be provided between the body and crown. BODY FENDER LINER A aluminum painted black 101 fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.
0816944		Hose, Hard Suction, Provided by Fire Department, NFPA/ULC 2024	HARD SUCTION HOSE Hose is not on the apparatus as manufactured. The fire department will provide suction or supply hose. There will be Two (2) lengths of 10' long x 4.50" diameter hose provided and equipped with rocker lug couplings provided on the ends.
0626229		Handrails, Side Pump Panels, Per Print	HANDRAILS The handrails will be 1.25" diameter knurled aluminum to provide a positive gripping surface. Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces. Drain holes will be provided in the bottom of all vertically mounted handrails. Handrails will be provided to meet current edition of applicable NFPA standards. The handrails will be installed as noted on the sales drawing.

0625975	Handrails, Beavertail, Hansen Tubing, Knurled Aluminum, LED Backlit	HANDRAILS One (1) Hansen LED lit knurled aluminum vertical handrail will be located on each rear beavertail. The handrail will be lit with a blue LED light. The hand rail will be activated with the headlight switch activated and the parking brake applied. Stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces.
0004146	Handrail, Rear, Below Hose Bed, Full Width	HANDRAIL One (1) full width horizontal knurled aluminum handrail will be provided below the hose bed at the rear of the apparatus.
0004154	Handrail, Extra - 10" Long	ADDITIONAL HANDRAIL Four (4) handrails, 10.00" long, will be mounted Two (2) mounted on each side of the front body bulkhead, exact location shown on the AD. Two (2) on the upper rear hatch compartments, locations shown on the AD. The handrail will be constructed out of knurled aluminum.
0004150	Handrail, Extra - 15-20" Long	ADDITIONAL HANDRAIL Two (2) handrails will be mounted (1) under PS step shield (MATCH 38840) and (1) vertical, left of step light shield on left side pump panel. The handrail(s) will be constructed of knurled aluminum.
0636301	Compt, Extinguisher (2) Fender Panel, Triangular Door, 8" Dia	EXTINGUISHER/AIR BOTTLE/ STORAGE (Triangular) A total of one (1) extinguisher/air bottle/storage compartments will be provided on the right side forward of the rear wheels. The triangular shaped compartment will be sized to fit a 8.00" diameter extinguisher in the lower area and a 8.00" diameter extinguisher in the upper area. The compartment will be approximately 25.50" deep. A partition will be provided to separate the compartment. Also inside the compartment, black Dura-Surf friction reducing material will be provided. The compartment will be furnished with a drain hole. A painted stainless steel, triangular shaped door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottles. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. AIR BOTTLE COMPARTMENT STRAP A strap will be provided in the air bottle compartment(s) to help contain the bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
0654143	Compt, Air Bottle, Single, Tri Door (DEF/Fuel), Fender Panel	AIR BOTTLE STORAGE (Single) A quantity of one (1) air bottle compartment, approximately 7.50" wide x 7.50" tall x 26.00" deep, will be provided on the driver side rearward of the rear wheels. The triangular door will cover the air bottle opening, the DEF tank access, and fuel fill. The compartment will be square with angled corners. A painted stainless steel door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black Dura-Surf friction reducing material will be provided. Air Bottle Compartment Strap A strap will be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
0657522	Compt, Air Bottle, Triple, Fender Panel	AIR BOTTLE STORAGE (Triple) A quantity of one (1) air bottle compartment designed to hold (3) air bottles up to 7.25" in diameter x 26.00" deep will be provided on the left side forward of the rear wheels. A painted stainless steel door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black Dura-Surf friction reducing material will be provided. Air Bottle Compartment Strap A strap will be provided in the air bottle compartment(s) to help contain the air bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
0648325	Compt, Air Bottle, Double, Tri Door, Fender Panel	AIR BOTTLE STORAGE (Double) A quantity of one (1) air bottle compartment, 15.25" wide x 7.75" tall x 26.00" deep, will be provided on the right side rearward of the rear wheels. The triangular door to cover the double air bottle opening and the fuel tank access. A painted stainless steel door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black Dura-Surf friction reducing material will be provided. AIR BOTTLE COMPARTMENT STRAP A strap will be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.

0887817	SP	Holder, Air Bottle, Zico Model SC-50-H-6-SFPHS, Mounted in Compt w/Tracks	AIR BOTTLE HOLDERS Four (4) brackets will be provided for mounting air bottles. Each bracket will be a Ziamatic, Model SC-50-H-6-SFPHS that will be mounted on tracks used for adjusting the location of the bracket within the compartment. Install (2) LS1 8.75" from top, 13" from left wall, 18.5" apart, (1) LS3 13" from left wall to cntr bracket, (1) RS3 12" from left wall to cntr brkt, .
0512553		Ladder, 24' Duo-Safety 900A 2-Sect, w/Kernmantle Rope	EXTENSION LADDER There will be a 24', two (2) section, aluminum, Duo-Safety, Series 900-A extension ladder provided. The ladder will have Kermantle rope IPO Hemp Rope.
0004230		Ladder, 14' Duo-Safety 775A Roof	ROOF LADDER There will be a 14' aluminum Duo-Safety Series 775-A roof ladder provided.
0787027		Ladders Btwn Tank & S.Sht, RS, Extended Rear, Enclosed, RPH, Special Mounting	LADDER STORAGE The ladders will be stored between the water tank and the right side compartments. The ladders will extend into the pump compartment just to the rear of the water pump discharges. The ladder storage area will be enclosed as practical by means of sheet metal to protect the ladders from road dirt. The ladders that extend into the pump house will also be enclosed. A black rubber boot will be provided to enclosed the ladders in the gap between the pump house and the body. Each ladder will be stored vertically in a separate stainless steel storage trough. Each stainless steel trough will be lined with Dura-Surf nylon slides. If the apparatus does not have a flush rear wall, an aluminum enclosure will be provided at the rear of the body to properly contain the ladders. This enclosure will extend to the rear of the side body compartments. The ladders will be stored 24' ladder fly inboard. The enclosure will also include a vertically hinged smooth aluminum door with a D-handle latch to access the ladders.
0507711		Ladder, 10' Duo-Safety Folding 585A, w/Spcl Mtg	FOLDING LADDER One (1) 10' aluminum Series 585-A Duo-Safety folding ladder will be provided. The folding ladder will be installed Tank T compartment (match 38840), mounted with an aluminum trough painted job color on the exterior and unpainted on the interior. A Velcro® strap will be installed to hold the ladder in the trough.
0725324		Compt w/Door, Backboard, In Hose Bed	BACKBOARD STORAGE A compartment with one (1) storage trough for storage of backboard(s) will be located on the right side of the hose bed. The backboard(s) will be installed vertically. The trough(s) will be sized for backboard(s) 76.00" long x 18.00" wide x 2.00" high. The storage compartment will consist of a permanent hose bed divider. A aluminum treadplate door will be provided at the rear of the storage area with a Southco C2 chrome flush latch. The door will be hinged on the left side. Grating will be provided at the top of this compartment.
0547754		Not Required, Pike, Pole, 8'	
0552649		Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-6	6' PIKE POLE There will be two (2) Fire Hooks Unlimited NY roof hook RH-6, 6' pike pole(s) with steel handles and pry end provided PP Compartment.
0762449	SP	Compt, Long Tools, Btwn Tank & Side Sheet/Below Tank Tee, LS	LONG TOOL STORAGE One (1) compartment will be provided below the tank tee between the tank and side sheet on the left side. The compartment will be roughly sized to match job 38840 (must hold (2) steel RH-6 Fire Hooks Unlimited 6' NY Hook, (1) YPD-10 10' HD Classic Nuplaglass Pike Pole w/ Butt End., (1) Folding ladder) in size. A door will be provided at the rear of the compartment for access. The door will be made of polished stainless steel with a lift and turn latch. The door will be hinged on the bottom.
0004361		Tubes, Alum, Pike Pole Storage	PIKE POLE STORAGE Aluminum tubing will be used for the storage of three (3) pike poles and will be located in the driver side long tool storage compartment. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided.
0768976		Bell, 12" Chrome w/Eagle, Mounted on Cab Corner, Large Brkt	BELL A chrome plated, 12.00" bronze cast bell, complete with an eagle, will be mounted on the passenger side radiused corner of cab face. The cab will be properly reinforced to support the weight of the bell, the reinforcement bracket allow the bell to mount toward the upper corner of the windshield. A rope pull, for the bell, will be installed inside the cab.

0785102	Steps, Folding, Front of Body, Cargo Bed Access, w/LED, Trident	FOLDING STEPS FRONT OF BODY Folding steps will be provided full height on the left side and right side body compartments to provide access to the cargo bed. Steps will be spaced evenly on the sales drawing. Actual quantity may vary due to pump panel interferences but will meet the NFPA required maximum stepping height. The Trident steps will be bright finished, non-skid with a black tread coating on the stepping surface. The step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.
0592994	Steps, Folding, Rear of Body, w/LED, Trident	REAR FOLDING STEPS Bright finished, non-skid folding steps with a black tread coating on the stepping surface will be provided at the rear. Each step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.
0531223	SP I Zone Bracket, Pair	I-ZONE BRACKETS Two (2) I-Zone brackets will be provided and mounted at the rear of the apparatus, These are mounted in the rear step, one each end. Poles to be Hi Viz yellow and 24.00" long. The brackets will be designed with adequate reinforcement to eliminate flexing of the body (oil canning) and not interfere with any of the rear facing lights when carrying hose. A removable pipe will be provided that will slide into the permanently mounted base.
0724153	Step, Folding - Extra, Body Only, w/LED, Trident	One (1) additional folding step will be located right side rear body ABOVE BOTTOM STEP. The step(s) will be bright finished, non-skid with a black tread coating on the stepping surface. Each step will incorporate an LED light to illuminate the stepping surface. The step(s) can be used as a hand hold with two openings wide enough for a gloved hand.
0028046	Step, Special Width, Rear Of Body, 8.00",Used w/Recessed Traffic Directing Light	An 8.00" deep bright aluminum treadplate step will be provided at the rear of the body above the rear compartment. The step will be sized to accommodate the mounting of a recessed traffic directing light. The step will be At the rear per print..
0007575	Pump House, Side Control, 48", Control Zone	PUMP COMPARTMENT The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment will be constructed of the same material as the body compartmentation. The pump compartment substructure will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards. The pump compartment will be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist. Pump compartment, pump, plumbing and gauge panels will be removable from the chassis in a single assembly. PUMP MOUNTING Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. LEFT SIDE PUMP CONTROL PANEL All pump controls and gauges will be located at the left (driver's) side of the apparatus and properly identified. Layout of the pump control panel will be ergonomically efficient and systematically organized. The pump operator's control panel will be removable in two (2) main sections for ease of maintenance: The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges. The lower section of the panel will contain all inlets, outlets, and drains. All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding. IDENTIFICATION TAGS The identification tag for each valve control will be recessed in the face of the tee handle. All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge. All line pressure gauges will be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag. All remaining identification tags will be mounted on the pump panel in chrome plated bezels. The pump panel on the right (passenger's) side will be removable with lift and turn type fasteners. Trim rings will be installed around all inlets and outlets.
0037731	Pump House Structure, Raised, Included with Ladder Storage	

0004465	Pump, Waterous, CMU, 1750 GPM, Two Stage	PUMP Pump will be a Waterous CMU 1750 gpm two (2) stage midship mounted centrifugal type. Pump will be the class "A" type. Pump will deliver the percentage of rated discharge at pressures indicated below: - 100% of rated capacity at 150 psi net pump pressure. - 70% of rated capacity at 200 psi net pump pressure. - 50% of rated capacity at 250 psi net pump pressure. Pump body will be close-grained gray iron, bronze fitted, and horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings). Pump will be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping. Pump case halves will be bolted together on a single horizontal face to minimize a chance of leakage and facilitate ease of reassembly. No end flanges will be used. Discharge manifold of the pump will be cast as an integral part of the pump body assembly and will provide a minimum of three (3) 3.50" openings for flexibility in providing various discharge outlets for maximum efficiency. The three (3) 3.50" openings will be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold. Impeller shaft will be stainless steel, accurately ground to size. It will be supported at each end by sealed, anti-friction ball bearings for rigid precise support. Impeller will have flame plated hubs assuring maximum pump life and efficiency despite any presence of abrasive matter in the water supply. Bearings will be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings will be used.
0004482	Seal, Mechanical, Waterous	Pump will be equipped with a self-adjusting, maintenance-free, mechanical shaft seal. The mechanical seal will consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring will press against a highly polished stainless steel stationary ring that is sealed within the pump body. In addition, a throttling ring will be pressed into the steel chamber cover, providing a very small clearance around the rotating shaft in the event of a mechanical seal failure. The pump performance will not deteriorate, nor will the pump lose prime, while drafting if the seal fails during pump operation. Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.
0816447	Trans, Pump, Waterous C22 Series	PUMP TRANSMISSION The pump transmission will be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump will be through a high strength Morse HY-VO silent drive chain. By using a chain rather than gears, 50 percent of the sprocket will be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work. Drive shafts will be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case will be designed to eliminate the need for water cooling.
0635600	Pumping Mode, Stationary Only	PUMPING MODE An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.
0605126	Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	AIR PUMP SHIFT Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control will also be located on the left side pump panel. Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump". The pump shift will be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements. The pump shift control in the cab will be illuminated to meet NFPA requirements.
0003148	Transmission Lock-up, EVS	TRANSMISSION LOCK-UP The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.
0004547	Auxiliary Cooling System	AUXILIARY COOLING SYSTEM A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger will be a separate unit. It will be installed in the pump or engine compartment with the control located on the pump operator's control panel. The exchanger will be plumbed to the master drain valve.

0004485	Transfer Valve, Electric, Watrous	TRANSFER VALVE Transfer valve design will be of the latest ball type, of all bronze construction and incorporate a hydraulically balanced seal assembly, minimizing leakage around the ball and assuring maximum pump efficiency. Transfer valve will operate smoothly and without sticking, even when exposed to sandy or dirty water. Transfer valve will be operated electrically with a control switch mounted on the pump operator's control panel, with two (2) indicator lights which will indicate "pressure" or "volume". Transfer valve will have the ability to change from series (pressure) operation to parallel (volume) operation without reducing the operating speed of the engine regardless of the operating pressure of the pump, thus maintaining an effective fire stream at the nozzle at all times. A manual override will be provided in the event of electrical malfunction. The manual override system operates with the use of a removable hand crank located at the left side pump panel.
0746501	Valve, Relief Intake, Elkhart	INTAKE RELIEF VALVE - PUMP One (1) Elkhart Style 40 relief valve(s) will be installed on the suction side of the pump preset at 125 psig. The relief valve(s) will have a working range of 75 psi to 250 psi. The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag. The relief valve pressure control will be located behind the right side pump panel with a stainless steel access door.
0721609	Controller, Pressure, Pierce LCD, Custom Chassis	PIERCE PRESSURE CONTROLLER A Pierce electronic pressure controller will be provided. A pressure transducer will be installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller will be programmed to turn on/default to Pressure Setting mode. In the RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will maintain the set engine speed, regardless of engine load (within engine operation capabilities). In the pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow. A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center will be a integrated/part of the pressure controller. The throttle control knob will be programmed for Clockwise rotation to increase engine speed. Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode will be located on the pressure controller for easy viewing. A pump cavitation protection feature will also be provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds. Other safety features include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle. The pressure controller LCD screen will be 4.20" in size with a minimum brightness of 750 nits. The LCD screen and LED intensity will be automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed. The following information will be provided/displayed on the LCD screen - Engine RPM Check engine and stop engine warning indicators Engine oil pressure Engine coolant temperature Water pump transmission temperature Fuel Level Water tank level Battery voltage Operating mode (RPM or pressure) Pressure or RPM setting On screen messaging show diagnostic and warning messages as they occur. It will show apparatus information, stored data, and program options when selected by the operator. It will monitor inputs outputs and support audible and visual warning alarms for the following conditions - High battery voltage Low battery voltage/engine off Low battery voltage/engine running High water pump temperature Low fuel Low engine oil pressure High engine coolant temperature Water tank out of water (visual alarm only) No engine response (visual alarm only) The pressure controller will store the accumulated operating hours for the pump and engine. These items are to be displayed within the pressure controller menu. The pressure controller will include a USB port on the back of the controller for easy software upgrades if needed.

0641743	Primer, Waterous, VPO Motor, (1) VAP Valve, (1) Push Button Control	PRIMER SYSTEM A Waterous electric pump priming system conforming to standards outlined in the current edition of applicable NFPA standards will be furnished with the apparatus. One (1) VPO electric motor driven rotary vane primer will be provided. One (1) VAP vacuum activated priming valve will be plumbed main pump. One (1) momentary push-button control will be located at the pump operator's panel. The push button control system control will operate an electric priming motor and the priming valve will automatically open during priming and close when the primer is deactivated.
0620445	Foam Drain(s), Special Location	FOAM DRAIN(S), LOCATION The foam drain(s) will be located under the driver running board forward of tray as high as possible so they do not extended past front edge of running board under cab..
0780364	Manuals, Pump, (2) Total, Electronic Copies	PUMP MANUALS There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.
0602509	Plumbing, Stainless Steel and Hose, Two Stage Pump, Control Zone	PLUMBING, STAINLESS STEEL AND HOSE All inlet and outlet lines will be plumbed with either stainless steel pipe, hydraulic type hose or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness. Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings. Plumbing manifold bodies will be ductile cast iron or stainless steel. All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame. All water carrying gauge lines will be hydraulic or reinforced poly hose. All piping, hose and fittings will have a minimum of a 700 PSI hydrodynamic pressure rating.
0795135	Plumbing, Stainless Steel, w/Foam System	FOAM SYSTEM PLUMBING All piping that is in contact with the foam concentrate or foam/water solution will be stainless steel. The fittings will be stainless steel or brass. Cast iron pump manifolds will be allowed.
0004645	Inlets, 6.00" - 1250 GPM or Larger Pump	MAIN PUMP INLETS A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.
0014650	Pump Suction Tube(s), Short, All	SHORT SUCTION TUBE(S) The suction tube(s) on the water pump will have short suction tube(s) installed to allow for installation of adapters, elbows or intake valves without excessive overhang.
0755923	Valve, Ball Intake, Akron Revolution	INLET VALVES WITH INTAKE RELIEF VALVE There will be Two (2) Akron Brass Revolution 7982 (30 degree swivel inlet) manually operated aluminum ball intake valve(s) provided LS/RS main inlets . The inlet connection will be 5.0" Storz swivel with a cap and the outlet connection will be 6.0" FNST swivel long handle . A 12.5" diameter handwheel will be included to operate valve open and close functions. A position indicator will be included to indicate position of the ball. The ball intake valve will be equipped with an adjustable pressure relief valve. The relief valve will have a working range of 50 PSI to 250 PSI. A 3/4" bleeder/drain valve will be provided on the ball intake valve to exhaust excess air or water from the valve. The Intake Valve will be constructed of lightweight, corrosion-resistant, hard-anodized aluminum and stainless steel. To protect against corrosion, the casting will be coated with a powder coat finish and all components on the wet side of the valve will be constructed from stainless steel.
0820184	Cap, Main Pump Inlet, Provided by Fire Department, NFPA/ULC 2024	MAIN PUMP INLET CAP PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 13.6.8 and CAN/ULC S515:2024 edition, section 5.2, requires all intakes to be provided with caps or closures capable of withstanding a hydrostatic gauge pressure of 500 psi (3400 kPa). The caps are not on the apparatus as manufactured. The fire department will provide both caps for the main pump inlets.
0084610	Valves, Akron 8000 series- All	VALVES All ball valves will be Akron® Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve. Valves will have a ten (10) year warranty.

0016158	Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	The location of the valve for the two (2) inlets will be recessed behind the pump panel.
0004700	Control, Inlet, at Valve	INLET CONTROL The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.
0004660	Inlet (1), Left Side, 2.50"	LEFT SIDE INLET There will be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter. The auxiliary inlet will be provided with a strainer, chrome swivel and plug.
0004680	Inlet, Right Side, 2.50"	RIGHT SIDE INLET There will be one (1) auxiliary inlet with a 2.50" valve at the right side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter. The auxiliary inlet will be provided with a strainer, chrome swivel and plug.
0034720	Anode, Zinc, Pair, Pump Inlets	ANODE, INLET A pair of sacrificial zinc anodes will be provided in the water pump inlets to protect the pump from corrosion.
0092569	No Rear Inlet (Large Dia) Requested	
0064116	No Rear Inlet Actuation Required	
0092696	Not Required, Cap, Rear Inlet	
0009648	No Rear Intake Relief Valve Required on Rear Inlet	
0092568	No Rear Auxiliary Inlet Requested	
0723049	Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	INLET BLEEDER VALVE A 0.75" bleeder valve will be provided for each side gated inlet. The valves will be located behind the panel with a "T" swing style handle control extended to the outside of the panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders will be routed below the chassis frame rails.
0029043	Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	TANK TO PUMP The booster tank will be connected to the intake side of the pump with stainless steel piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line will run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing. A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.
0004905	Outlet, Tank Fill, 1.50"	TANK REFILL A 1.50" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.
0062133	Control, Outlets, Manual, Pierce HW if applicable	DISCHARGE OUTLET CONTROLS The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve. If a handwheel control valve is used, the control will be a minimum of a 3.90" diameter stainless steel handwheel with a dial position indicator built into the center of the handwheel. Any 3.00 inch or larger discharge valve will be a slow-operating valve to meet current edition of applicable NFPA standards.
0004940	Outlet, Left Side, 2.50"	LEFT SIDE DISCHARGE OUTLETS Two (2) discharge outlets with a 2.50" valve will be provided on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

0005091	Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	LEFT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092570	Not Required, Outlets, Left Side Additional	
0035094	Not Required, Elbow, Left Side Outlets, Additional	
0004945	Outlet, Right Side, 2.50"	RIGHT SIDE DISCHARGE OUTLET One (1) discharge outlet with a 2.50" valve will be provided on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.
0025091	Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	RIGHT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092571	Not Required, Outlets, Right Side Additional	
0089584	Not Required, Elbow, Right Side Outlets, Additional	
0816627	Outlet, Large Diameter, Right Side, Waterous Valve	LARGE DIAMETER DISCHARGE OUTLET There will be a Waterous 3.50" ball valve with 4.00" plumbing terminating with a 4.00" MNST chrome adapter on the right side pump panel. The valve will be controlled with a(n) Pierce small handwheel with indicator located at the pump operator's panel.
0650671	Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz, TFT AH3ST-NP, w/Cap	LARGE DIAMETER OUTLET ELBOWS The 4.00" outlet will be furnished with a 4.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap. The NST end on the elbow will swivel until tightened to stay in determined positions. One (1) 5.00" Storz cap with cable will be provided.
0649939	Outlet, Front, 1.50" w/2" Plumbing	FRONT DISCHARGE OUTLET There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located RS TOP OF BUMPER, AS CLOSE TO TRAY AS POSSIBLE, MATCH27904. Plumbing will consist of 2.00" piping and flexible hose with a 2.00" ball valve with control at the pump operator's panel. A fabricated weldment made of stainless steel pipe will be used in the plumbing where appropriate. The piping will terminate with a 1.50" NST with 90 degree stainless steel swivel. There will be automatic drains provided at all low points of the piping.
0592885	SP Outlet, Rear, 2.50" Fill In BlankSpecial Location	REAR DISCHARGE OUTLET There will be One (1) discharge outlet piped to the rear of the hose bed, on left side with discharge 1.5" further to left than provided on 38840, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.
0045091	Elbow, Rear Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	REAR OUTLET ELBOWS The 2.50" discharge outlets located at the rear of the apparatus will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092574	Not Required, Outlet, Rear, Additional	

0820233	Elbow, Additional Rear, Large Outlet, Provided by Fire Department, NFPA 2024	ADDITIONAL REAR OUTLET ELBOWS PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 13.7.7 requires any 2.00" or larger discharge outlet that is located more than 42.00" off the ground and to which hose is to be connected and that is not in a hose storage area will be supplied with a sweep elbow of at least 30 degrees downward. NFPA 1900, 2024 edition, section 13.7.4 requires all discharge outlet connections, except connections to which a hose will be pre-connected, will be equipped with caps or closures capable of withstanding a hydrostatic gauge pressure of 100 psi over the maximum pump close-off pressure or 500 psi, whichever is greater. The elbow(s) and cap are not on the apparatus as manufactured. The fire department will provide the elbow(s) and cap.
0004990	Outlet, Front HB, 2.50" w/2.50" Plumbing	FRONT OF HOSE BED DISCHARGE OUTLET There will be One (1) discharge outlet discharge(s) piped to the front of the hose bed and located driver side HB # 2 as shown on the AD. Plumbing will consist of 2.50" piping with a 2.50" full-flow ball valve controlled at the pump operator's panel. The discharge(s) will terminate with a 2.50" (M) National Standard hose thread adapter.
0752097	Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	DISCHARGE CAPS/ INLET PLUGS Chrome plated, rocker lug, caps with chain will be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets. Chrome plated, rocker lug, plugs with chain will be furnished for all auxiliary inlets 1.00" thru 3.00" in size. The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.
0723042	Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	OUTLET BLEEDER VALVE A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application. The valves will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel. The handles will be chrome plated and provide a visual indication of valve position. The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders will be routed below the chassis frame rails.
0005080	Reducer, 2.50" FNST x 1.50" MNST, w/Cap	REDUCER There will be seven (7) adapters with 2.50" FNST x 1.50" MNST threads and a 1.50" chrome plated cap installed on each 2.50" outlet and 2 shipped loose..
0729297	Outlet, 3.00" Deluge, Dual Control, SM HW's, w/TFT Extend-a-Gun XG18 riser	DELUGE RISER A 3.00" deluge riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping will be installed securely so no movement develops when the line is charged. The riser will be gated and controlled at the pump operator's panel by a small handwheel control. DUAL CONTROL There will be a second small handwheel control installed near the deluge outlet within easy reach of the deluge appliance operator. TELESCOPIC PIPING The deluge riser piping will include a 18.00" Task Force Model XG18 Extend-A-Gun extension. This extension will be telescopic to allow the deluge gun to be raised 18.00" increasing the range of operation. A position sensor will be provided on the telescopic piping that will activate the "do not move vehicle" light inside the cab when the monitor is in the raised position.
0095958	Deluge Outlet, Special Height/Location	DELUGE OUTLET SPECIAL INSTRUCTIONS The deluge gun outlet will be located Recessed as shown on the drawing, centered between the hose reel and the Husky foam tower.
0770359	No Monitor Requested, Customer/Dealer Furnished and Installed	MONITOR A customer/dealer supplied and installed make and model TFT Crossfire XC-52 monitor will be properly installed on the deluge riser.
0029304	No Nozzle Req'd	
0046857	Deluge Mount, For TFT Crossfire Monitor, TFT Manual Extend-A-Gun Only	The deluge riser Extend-a-Gun will have provisions for direct mounting a Task Force Tips CrossFire monitor.
0723726	Speedlay Module Not Required	

0722432		Hose Restraint Not Required, No Speedlay Module	
0723395		Speedlays, Not Required	
0723394		Speedlays, Not Required	
0518764	SP	Crosslays Sngl Sheet Unpainted, (2+) 1.50", Spcl. Cap	CROSSLAY HOSE BEDS Two (2) crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200' of 2.00"DJ Hose, with 8.00" clear opening for each bed and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve. Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus. The crosslay controls will be at the pump operator's panel. The center crosslay dividers will be fabricated of .25" aluminum and will provide adjustment from side to side. The divider will be un-painted. Vertical scuffplates, constructed of polished stainless steel, will be provided at the front and rear ends of the bed on each side of vehicle. Crosslay bed flooring will consist of removable perforated brushed aluminum.
0029196		Not Required, 2.50" Crosslay	
0623374		Hose Restraint, Crosslays, 2" Nylon Web, Seat Belt Buckle, Tether, Bar, Sides	CROSSLAY HOSE RESTRAINT A 2.00" black nylon webbing design restraint will be provided at each of the ends of three (3) crosslay(s) to secure the hose during travel. The webbing assembly is to be attached at the bottom of the crosslays, with footman loops and a permanent attachment, and is to attach at the top outside corners with seat belt buckles. The female end of the seat buckle will be permanently attached at the top corner of the opening. A bar will be attached to the female ends of the seat belt buckles to allow a single pull release. A single orange nylon strap will be attached to the bar for releasing the buckles on the webbing.
0029260		Not Required, Speedlays	
0750536		Hose Restr, Spdly, Not Required, No Spdly	
0580925		Hose Restraint, Crosslay/Deadlay, 3/16" Alum Treadplate, Top Only	CROSSLAY/DEADLAY HOSE RESTRAINT A hinged .19" aluminum treadplate cover, hinged at the front will be installed over the crosslay/deadlay(s). It will include a latch at each end of the cover to hold it securely in place, a chrome grab handle at each end for opening and closing the cover and a foam rubber gasket where the cover comes into contact to a painted surface. The cover will be provided with rubber latch hold open device.
0721871	SP	Crosslays, 15.00" Lower Than Standard - Control Zone w/ Raised PH	CROSSLAY 15.00" LOWER THAN STANDARD The crosslays will be lowered 15.00" from standard with a raised pumphouse.
0014329		Cutouts, (2) Handhold, Crosslay Divider	CUTOUT, HANDHOLD, CROSSLAY DIVIDER Two (2) cutouts with radiused corners will be provided at side of the crosslay divider(s) two (2).
0092844		Deadlay(s), Special Cap.	DEADLAY HOSE BED One (1) deadlay bed without plumbing, will be provided above the pump compartment capable of carrying One (1) deadlay bed for (2) two 100' x 2.00" hose bundles with nozzles. Make opening 8.00" clear . Stainless steel vertical scuffplates will be provided at hose bed ends (each side of vehicle). The bottom of hose bed ends (each side) will also be equipped with a stainless steel scuffplate. above the pump compartment Deadlay bed flooring will consist of removable perforated brushed aluminum.
0038549		Hinged Shelf, In Crosslay/Deadlay, Ea	HOSE BED SHELF one (1) hinged aluminum shelf will be installed in the crosslay hose bed located above the pump area in the dead lay compartment. The shelf will be full width of the crosslay and will separate the crosslay into two (2) separate hose storage areas. It will allow for storage over the bed of the crosslay.

0015216	Reel, Booster, Aluminum - Over Pump, Right Side	BOOSTER HOSE REEL A Hannay electric rewind booster hose reel will be installed over the pump in a recessed open compartment on the right side of the apparatus. The reel will be fabricated of aluminum and have highly polished end discs. A polished stainless steel roller and guide assembly will be mounted on the reel side of the apparatus. Discharge control will be provided at the pump operator's panel. Plumbing to the reel will consist of 1.50" Aeroquip hose and a 1.50" valve.
0011060	Switch, Reel Rewind - One at Pump Panel	Reel motor will be protected from overload with a circuit breaker rated to match the motor. An electric rewind control switch will be installed on the reel side pump panel.
0075300	Hose, Booster - 100' of 1.00"/800 PSI	Booster hose, 1.00" diameter and 100 feet, with chrome plated Barway, or equal couplings will be provided. Working pressure of the booster hose will be a minimum of 800 psi.
0025244	Capacity, Hose Reel 100' of 1"	Capacity of the hose reel will be 100 feet of 1.00" booster hose.
0007122	Nozzle, Task Force Tips, B-BGH 10-125 gpm	HOSE REEL NOZZLE A Task Force, model B-BGH10-125 gpm, booster hose nozzle will be provided.
0021954	Cutout for Reel Access, One, w/ S/S Trim	HOSEREEL ACCESS A cutout will be provided in the side sheet next to the booster hose reel. This cutout will allow access to the hose and provide a window to view the reel. Stainless steel trim will be mounted horizontally and vertically around the cutout.
0085328	Nozzle Cup, Zico w/Bracket	NOZZLE CUP AND BRACKET A Zico nozzle cup and chrome plated mounting bracket will be provided for storage of the booster reel nozzle. There will be one (1) provided. The nozzle cup(s) will have a 3-1/8" inside diameter and will be located right side step shield, angled just above 4-way step 15" from top of RS3 compartment..
0622237	Roller Assembly, Additional	There will be one (1) additional polished stainless steel roller and guide assembly mounted LEFT SIDE.

HUSKY 3 FOAM PROPORTIONER

A Pierce Husky® 3 foam proportioning system will be provided. The Husky 3 is an on demand, automatic proportioning, single point, direct injection system suitable for all types of Class A and B foam concentrates, including the high viscosity (6000 cps), alcohol resistant Class B foams. Operation will be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. The system will automatically proportion foam solution at rates from .1 percent to 3 percent regardless of variations in water pressure and flow, up to the maximum rated capacity of the foam concentrate pump.

The design of the system will allow operation from draft, hydrant, or relay operation.

System Capacity

The system will have the ability to deliver the following minimum foam solution flow rates at accuracies that meet or exceed NFPA requirements at a pump rating of 150 psi.

100 gpm @ 3 percent

300 gpm @ 1 percent

600 gpm @ 0.5 percent

Class A foam setting in 0.1 percent increments from 0.1 percent to 1 percent. Typical settings of 1 percent, 0.5 percent and 0.3 percent (maximum capacity will be limited to the plumbing and water pump capacity).

Control System

The system will be equipped with a digital electronic control display located on the pump operator's panel. Push button controls will be integrated into the panel to turn the system on/off, control the foam percentage, and to set the operation modes.

The percent of injection will have a preset. This preset can be changed at the fire department as desired. The percent of injection will be able to be easily changed at the scene to adjust to changing demands.

Three (3) .50 tall LEDs will display the foam percentage in numeric characters. Three (3) indicator LEDs will also be included, one (1) green, one (1) red, and one (1) yellow. The LEDs will indicate various system operation or error states.

The indications will be:

Solid Green - System On

Solid Red - Valve Position Error

Solid Yellow - Priming System

Flashing Green - Injecting Foam

Flashing Red - Low Tank Level

Flashing Yellow - Refilling Tank

The control display will house a microprocessor, which receives input from the systems water flow meter while also monitoring the position of the foam concentrate pump. The microprocessor will compare the values of the water flow versus the position/rate of the foam pump, to ensure the proportion rate is accurate. One (1) check valve will be installed in the plumbing to prevent foam from contaminating the water pump.

Hydraulic Drive System

The foam concentrate pump will be powered by an electric over hydraulic drive system. The hydraulic system and motor will be integrated into one (1) unit.

Foam Concentrate Pump

The foam concentrate pump will be of positive displacement, self-priming; linear actuated design, driven by the hydraulic system. The pump will be constructed of brass body; chrome plated stainless steel shaft, with a stainless steel piston. In order to increase longevity of the pump, no aluminum will be present in its construction.

A relief system will be provided which is designed to protect the drive system components and prevent over pressuring the foam concentrate pump.

The foam concentrate pump will have minimum capacity for 3 gpm with all types of foam concentrates with a viscosity at or below 6000 cps including protein, fluoroprotein, AFFF, FFFP, or AR-AFFF. The system will deliver only the amount of foam concentrate flow required, without recirculating foam back to the storage tank. Recirculating foam concentrate back to the storage tank can cause agitation and premature foaming of the concentrate, which can result in system failure. The foam concentrate pump will be self-priming and have the ability to draw foam concentrate from external supplies such as drums or pails.

External Foam Concentrate Connection

An external foam pick-up will be provided to enable use of a foam agent that is not stored on the vehicle. The external foam pick-up will be designed to allow continued operation after the on-board foam tank is empty, or the use of foam different than the foam in the foam tank.

Panel Mounted External Pick-Up Connection / Valve

A bronze three (3)-way valve will be provided. The unit will be mounted to the pump panel. The valve unit will function as the foam system tank to pump valve and external suction valve. The external foam pick-up will be one (1) 0.75" male connection GHT (garden hose thread) with a cap.

Pick-Up Hose

A 0.75" flexible hose with an end for insertion into foam containers will be provided. The hose will be supplied with a 0.75" female swivel GHT (garden hose thread) swivel connector. The hose will be shipped loose.

Discharges

The foam system will be plumbed to the center of front bumper, hose reel in right side of dunnage area, left rear outlet, front crosslay and rear crosslay.

System Electrical Load

The maximum current draw of the electric motor and system will be no more than 55 amperes at 12 VDC.

0592527	Refill, Foam Tank, Integral, Husky 3	SINGLE FOAM TANK REFILL The foam system's proportioning pump will be used to fill the foam tank. This will allow use of the auxiliary foam pick-up to pump the foam from pails or a drum on the ground into the foam tank. A foam shut-off switch will be installed in the fill dome of the tank to shut the system down when the tank is full. The fill operation will be controlled by a mode in the foam system controller. While the proportioner pump is filling the tank, the controller will display a flashing yellow LED to indicate that the tank is filling. When the tank is full, as determined by the float switch in the tank dome, the pump will stop and the controller will shut the yellow LED off. If it attempted to use tank fill and the refill valve and suction valve are in the wrong position(s), then a red LED will illuminate to indicate the improper valve position(s). When the valves are positioned properly, then filling will commence.
0031896	Demonstration, Foam System, Dealer Provided	
0005446	Foam Cell, 20 Gallon, Not Reduce Water	FOAM TANK The foam tank will be an integral portion of the polypropylene water tank. The cell will have a capacity of 20 gallons of foam with the intended use of Class A foam. The foam cell will not reduce the capacity of the water tank. The foam cell will have a screen in the fill dome and a breather in the lid.
0697589	Drain, 1.00", Foam Tank #1, Husky 3 Foam System, Quarter Turn	FOAM TANK DRAIN The foam tank drain will be a 1.00" quarter turn drain valve located inside the pump/plumbing compartment.
0091079	Not Required, Foam Tank #2	
0091112	Not Required, Foam Tank #2 Drain	
0746447	Approval Dwg, All Pump Panel(s), Includes Color And Label Tags	The following drawing(s) will be provided for approval by the customer. The drawing(s) will be made for up 38840 apparatus and/or similar Pierce job number. PUMP OPERATOR'S PANEL DRAWING A detailed drawing to scale of the pump operator's panel will be provided for the customer to review. The drawing will include all of the gauges, controls, switching, etc., located on the pump operator's panel. The customer will be allowed to make changes and/or mark-ups to this approval drawing. The fire apparatus manufacturer will make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line. The finalized and signed customer approved pump operator's panel drawing will become part of the contract documents. Due to the way drain(s), bleeder(s), operational/maintenance tag(s) and NFPA required warning tag(s) are placed on pump panel(s), these items will NOT be shown on any pump panel approval drawing(s). These item(s) will be placed on pump panel(s) at the fire apparatus manufacturer discretion. REMAINING PUMP PANEL(S) Detailed drawing(s) to scale of the remaining pump panel(s) will be provided for the customer to review. The drawing(s) will include all of the gauges, controls, switching, etc., located on the pump panel(s). The customer will be allowed to make changes and/or mark-ups to these approval drawing(s). The fire apparatus manufacturer will make revisions (If needed) to the drawing(s) per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line. The finalized and signed customer approved pump panel drawing(s) will become part of the contract documents. Due to the way drain(s), bleeder(s), operational/maintenance tag(s) and NFPA required warning tag(s) are placed on pump panel(s), these items will NOT be shown on any pump panel approval drawing(s). These item(s) will be placed on pump panel(s) at the fire apparatus manufacturer discretion. COLOR CODED TAGS A detailed drawing/chart of the colors used on all of the inlet(s) and outlet(s) will be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer will make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line. The finalized and signed customer approved drawing/chart of the colors will become part of the contract documents. SPECIAL TEXT/VERBIAGE TAGS A detailed drawing/chart of the text/verbiage used on all of the inlet(s) and outlet(s) will be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer will make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line. The finalized and signed customer approved drawing/chart of the text/verbiage will become part of the contract documents.

0032479		Pump Panel Configuration, Control Zone	PUMP PANEL CONFIGURATION The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.
0629224		Material, Pump Panels, Side Control Black UL-LX	PUMP AND GAUGE PANEL The pump and gauge panels will be constructed of aluminum with a black UL-LX spray-on polyurethane/polyurea material finish. A polished aluminum trim molding will be provided around each panel.
0721772		Panel, Pump Access - Right Side, Side Control	PUMP ACCESS Right Side Panel The right side pump panel will be removable. Panel Fastener The right side removable panel will be secured using a chrome lift and turn latch . The left side pump panels will be attached with screws. The right side lower panel (drain bank) will be secured using screws.
0888111	SP	Light, Pump Compt, TecNiq E10-W000-01, Pmp Pnl Lt Sw	PUMP COMPARTMENT LIGHT There will be two (2) TecNiq part number E10-W000-1, 1.39" high x 6.39" wide x 0.98" deep light (s) with white LEDs installed in the pump compartment. The light(s) will be activated with the pump panel light switch.
0586438		Gauges, (5), Engine - Pump Panel, IAT Pressure Controller	PUMP PANEL GAUGES AND CONTROLS The following will be provided on the pump and gauge panels in a neat and orderly fashion. These gauges will be in addition to what is provided with the pressure controller. - Engine Oil Pressure Gauge: With visual and audible warning - Engine Water Temperature Gauge: With visual and audible warning - Tachometer: Electric - Master Pump Drain Control - Voltmeter - Fuel
0005601		Throttle, Engine, Incl'd w/Press Controller	
0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	THROTTLE READY GREEN INDICATOR LIGHT There will be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.
0549333		Indicators, Engine, Included with Pressure Controller	
0745568		Indicator Light, Pump Panel, Ok To Pump, Green	OK TO PUMP INDICATOR LIGHT There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.
0081262		Drains, RS, Keep Area Under Main Inlet Clear	RIGHT SIDE DRAINS The drains on the right side pump panel will be located to keep the area under the main pump inlet clear for customer installed piston intake valve.
0066121		Drains, LS, Keep Area Under Main Inlet Clear	DRAINS, LEFT SIDE The drains on the left side pump panel will be located to keep the area under the main pump inlet clear for customer installed piston intake valve.
0058796		Gauge Panel, Vertically Hinged	HINGED GAUGE PANEL The pump gauge panel will be vertically hinged with quarter turn lift and turn latches for access.
0763688		Garnish Ring(s), Color Coded, Painted, Location	PAINTED COLOR CODED GARNISH RING(S) There will be seven (7) color coded garnish ring(s) provided around LS 2.50" outlets, LS 2.50" inlet, RS 2.50" outlet, RS LDH Outlet, RS 2.50" inlet, Driver Rear Discharge. The color of the ring (s) will be match pump panel colors for selected valves and will be painted on a stainless steel garnish ring.
0025637		Pump Panel Trim Rings, Oversized for Valve Removal	OUTLET TRIM RINGS The side discharges and auxiliary inlet valves will be recessed behind the panel and have larger holes provided in the pump panel to facilitate removal of the valves without removing the complete pump panel. Stainless steel trim plates will be provided to trim the holes.

0832001	SP Speaker, Atkinson Dynamics ADSF-25-Z, 25Watt, Front Bulkhead, Switch, Wiring	RADIO SPEAKER An Atkinson Dynamics, Model ADSF-25-Z, 25 Watt, flush mount speaker will be provided and mounted in the front bulkhead near the pump panel. There will be an on/off switch located on the pump panel. The wiring from the switch will be terminated at officer side per direction.
0677894	Gauges, 4.50" Master, Class 1, Special, LED	VACUUM AND PRESSURE GAUGES The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated ©. The gauges will be a minimum of 4.50" in diameter and will have white faces with black lettering, with a pressure range of 30.00" 0-600 psi. The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel. The blue LED backlight will be activated by the pump in gear interlock circuit. Test port connections will be provided at the pump operator's panel. One (1) will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and polished stainless steel plugs. They will be marked with a label.
0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	PRESSURE GAUGES The individual "line" pressure gauges for the discharges will be Class 1 interlube filled. They will be a minimum of 2.00" in diameter and have white faces with black lettering. Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. Gauges will have a pressure range of 30"-0-400#. The individual pressure gauge will be installed as close to the outlet control as practical. This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.
0750526	Gauge, Water Level, Pierce, In pressure Controller, Lt Driver	WATER LEVEL GAUGE An electric water level gauge will be incorporated in the pressure controller that registers water level by means of nine (9) LEDs. They will be at 1/8 level increments with a tank empty LED. The LEDs will be a bright type that is readable in sunlight and have a full 180-degree of clear viewing. To further alert the pump operator, the gauge will have a warning flash when the tank volume is less than 25 percent. The gauge will have down chasing LEDs when the tank is almost empty. The level measurement will be ascertained by sensing the head pressure of the fluid in the tank or cell. There will be a light driver module with this installation to power additional water level gauge(s) included on the apparatus.
0750438	Water Level Gauge, WIn PSTANK2, LED 1-Light, 4-Level	WATER LEVEL GAUGE There will be two (2) additional water level indicator(s), Whelen®, Model PSTANK 2, LED module with chrome trim, installed one (1) each side rearward of crew cab doors. This light module(s) will include four (4) colored levels, and function similar to the water level indicator located at the operators panel: First green module indicates a full water level Second blue module indicates a water level above 3/4 full Third amber module indicates a water level above 1/2 full Last red module indicates a water level above 1/4 full and empty Above 1/4 this light will be steady burning At empty this light will be flashing The flash rate will be determined by the main water level tank sensor. This module will be activated when the ignition switch and parking brake is applied.
0604354	Gauge, Foam Level, FRC, Tank Vision Pro, WLA 360-A00, Class "A"	CLASS "A" FOAM LEVEL GAUGE A Fire Research TankVision Pro, Model WLA360-A00, cell/tank level indicator kit will be installed on the pump operator's panel. The kit will include an electronic indicator module, a pressure sensor, a 10' sensor cable and a tank vent. The indicator will show the volume of Class "A" foam concentrate in the cell/tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs will provide for a viewing angle of 180 degrees. The indicator case will be waterproof, manufactured of Polycarbonate/Nylon material and have a distinctive green label. The program features will be accessed from the front of the indicator module. The program will support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display cell/tank volume, adjustable brightness control levels and a data link to connect remote indicators. Low foam level warnings will include flashing LEDs at 1/4 cell/tank and down chasing LEDs when the cell/tank is almost empty. The indicator will receive an input signal from an electronic pressure sensor. The sensor will be mounted from the outside of the foam cell/tank near the bottom. No probe will be placed on the interior of the cell/tank. Wiring will be weather resistant and have automotive type plug-in connectors.

0890969	SP	Light Shield/Step 8", S/S Shield Under Crosslay, TecNiq E10 Stp Lt	STEP/LIGHT SHIELD There will be a polished, 16 gauge stainless steel light shield installed under the crosslays. This shield will be properly reinforced to support the crosslay hose weight. There will be 12 volt DC white LED light(s) installed under the stainless steel light shield. These lights will be activated when the battery switch is on and the pump panel light switch is on. There will be an aluminum treadplate stepping surface no less than 8.00" deep and properly reinforced to support a man's weight, installed over the pump operator's panel. There will be 12 volt DC white LED lights installed under the step to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house. One (1) pump panel light will come on when the pump is in okay to pump mode. The switch panel will be lit when the parking brake is set. This is to afford the operator illumination when first approaching the control panel. There will be one (1) TecNiq Model E10-W000-1, 12 volt DC white LED step light with a fabricated aluminum angled bracket with all wiring enclosed to angle the light downward provided above the step. The step light will be activated by the pump panel light switch. All step lights on the apparatus will be illuminated per the current edition of applicable NFPA standards.
0890968	SP	Light Shield/Step 8", PS, S/S Under Crosslay, TecNiq E10 Stp Lt	ADDITIONAL STEP/LIGHT SHIELD There will be a polished, 16 gauge stainless steel light shield installed under the crosslays. This shield will be properly reinforced to support the crosslay hose weight. There will be 12 volt DC white LED light(s) installed under the stainless steel light shield. These lights will be activated when the battery switch is on and the pump panel light switch is on. There will be an additional aluminum treadplate stepping surface no less than 8.00" deep and properly reinforced to support a man's weight, installed over the passenger's side pump panel, and as full-width as possible. There will be 12 volt DC white LED lights installed under the step to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house. There will be one (1) TecNiq, Model E10-W000-1, 12 volt DC white LED step light with a fabricated aluminum angled bracket with all wiring totally enclosed to angle the light downward provided above the step. The step light will be activated by the pump panel light switch.
0806529	SP	Air Horn, (1) Hadley, 6" Round, eTone, 24.5", In Bumper, 90 psi	AIR HORN SYSTEM One (1) Hadley 24.5" eTone air horn will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air, in the brake system. Air horn air supply will be set to 90 psi.
0606842		Location, Air Horn, Bumper, Right Side, Outside Frame, Inboard (Pos #2)	Air Horn Location The air horn will be located on the right side of the bumper, just outside of the frame rail.
0757092		Control, Air Horn, Multi Select	Air Horn Control The air horn(s) will be activated by the following:
0757081		Control, Air Horn, Ft Sw, LS	Left side foot switch
0757084		Control, Air Horn, Horn Ring	Steering wheel horn ring with electric/air horn selector switch
0814300		Not Required, Electronic Siren Control By CORE System, CCCo	
0046133		No Siren Location	
0748306		Control, Elec Siren, Multi Select	ELECTRONIC SIREN CONTROL The electronic siren will be activated by the following:
0748286		Control, Elec Siren, Rocker/Membrane Sw, LS	The left side momentary switch.
0825719		Speaker, (1) Wln, SA315P, w/Pierce Polished SS Grille, 100 watt, CCTL9, CCCo	SPEAKER There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker will be wired to the Whelen C399 amplifier control module "Siren Out" outputs, and controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. The siren speakers functions will be controlled by the cab mounted CCTL9 control head.

0601555		Location, Speaker, Frt Bumper, Recessed, Left Side, Outside Frame, Outbrd (Pos 7)	The speaker will be recessed in the left side of the front bumper, towards the outside.
0834751	SP	Siren, Aux, Wln CHOWLER Speaker System, CCCo	AUXILIARY ELECTRONIC SIREN AMPLIFIER There will be a Whelen® WeCanX™, Model CHOWLER, siren amplifier with two (2) 100W speakers provided. The siren amplifier will be wired to the Whelen® C 399 control module. The amplifier will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0834766	SP	Control, Aux Electric Siren, Timed Mom. Activation Sw, CCCo	There will be one (1) momentary switch(es) provided on the cab instrument panel located panel #9 per IP layout to control the auxiliary siren. The control for the auxiliary siren will only be enabled when the battery switch is on and the emergency master switch is on. The switch(es) will be wired to the Whelen® C 399 control module. The switch(es) will operate as follows when the above conditions are met: Depressing the switch(es) once will activate the siren for a for a specified duration (10 seconds is default, but is adjustable upon request). Depressing the switch a second time will de-activate the siren. The siren will default to de-activated whenever the battery switch is cycled. The siren will default to de-activated whenever the emergency master switch is turned off. The auxiliary siren will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0650543		Location, Aux Elect Siren, Behind PS Seat, Amp Only	Auxiliary Electronic Siren Location The auxiliary electric siren will be located behind the passenger's side seat.
0824471		Not Required, Included with Siren	
0650532		Location, Aux Siren Speaker, Behind Bumper, Vent Holes Down	AUXILIARY SPEAKER LOCATION The auxiliary electric siren speaker(s) will be installed behind the bumper with the vent holes down.
0895310		Siren, Federal Q2B	AUXILIARY MECHANICAL SIREN There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus. The Q2B will be chrome finish. The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on. The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.
0006097		Location of Siren, Recessed in Bumper	The mechanical siren will be recessed in the front bumper on the right side. The siren will be properly supported using the bumper framework.
0748305		Control, Mech Siren, Multi Select	MECHANICAL SIREN CONTROL The mechanical siren will be activated by the following:
0890124		Control Mech Siren, Ft Sw LS, Loc	Left side foot switch centered on wireway cover with air horn footswitch inboard.
0737437		Sw, Siren Brake, Momentary Red, Pnl 9, Saber FR/Enf	A momentary red switch will be included in switch panel #9 to activate the siren brake.
0734674		Sw, Siren Brake, Mom Rocker, Red Outline, RS Overhead Sw Pnl, Mux	A momentary rocker switch will be included in the right side overhead switch panel to activate the siren brake. There will be a red outline decal around the black rocker switch.

0811625	Control System, Supplier Based, Electrical Wln CenCom Core C399 HW CCCo	WARNING SYSTEM CONTROL There will be a Whelen®, CenCom CORE™ WeCanX™ warning system control provided. The system will be a microprocessor based system that utilizes a centralized means of controlling the warning lighting on the vehicle. The system will include a photocell mounted in a location in the cab with a clear view of the ambient light to sense external ambient light. The warning system controlled warning lighting will be controlled as following: When in respond mode (high ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is released, and the vehicle is in high ambient light conditions, the warning light control system will change the flash pattern to LONG FLASH 75 RANDOM flash with high intensity light output. When in respond mode (low ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is released, and the vehicle is in low ambient light conditions, the warning light control system will change the flash pattern to SIGNAL ALERT 75 ALTERNATING flash with high intensity light output. When in blocking mode (high ambient light): When the emergency master switch is active, the associated warning light switch is activated, and the parking brake is applied, and the vehicle is in high ambient light conditions, the warning light control system will change the flash pattern to SINGLE FLASH 75 ALTERNATING flash with high intensity light output. When in blocking mode (low ambient light): When the emergency master switch is active, the associated warning light switch is activated, the parking brake is applied, and the vehicle is in low ambient light conditions, the warning light control system will enter the Whelen® Dynamic Variable Intensity (DVI) mode. DVI mode lowers warning light output intensity and creates a "calming" effect by slowing flash rates and synchronizing warning light flash patterns.
0824885	Control, Warning Lt Intensity, Wln, Photocell, Prk Brk, CCCo	CONTROL - WARNING LIGHTS INTENSITY When the parking brake is set, and a Whelen®, Model LCPHOTO photocell installed on the interior forward cab dash as near to the windshield as practical, is activated due to diminished ambient light, the designated Whelen® warning lights on the cab and the warning lights on the body will transition to a low power mode. In order for the activation of low power mode of the warning lights, the dash mounted Whelen® photocell must sense diminished ambient light (approx. 50 LUX), the battery switch, the ignition switch, the emergency master switch, must be on, and the parking brake set. The low power intensity mode will be reset to high power intensity mode when any of the above conditions are not met. The control will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0813290	Module, Sync, Wln CV2V, CCCo	VEHICLE TO VEHICLE SYNC MODULE There will be one (1) Whelen®, Model CV2V module, 3.23" high x 4.42" wide x 0.58" deep, Vehicle to Vehicle synchronization module installed on the cab dash, in clear view of the outside through the windshield. The module will be connected to the microprocessor based Whelen® CenCom CORE™ system to synchronize the apparatus flash patterns with other Whelen® Vehicle to Vehicle enabled emergency vehicles in the vicinity, when the vehicles are in blocking mode (parking brake set). Any programming or enabling of the CV2V sync module will be completed by Whelen Engineering.
0810550	Module, Control Head, CCTL9, 6 PB/Rot Knob, CCCo	CONTROL HEAD MODULE There will be one (1) Whelen® WeCanX® Model CCTL9, 2.51" H x 6.01" W x 2.07" D, six (6) button control head module with rotary knob installed in the cab location 13 per IP layout. The CCTL9 control head will have the following functions available: Pushbutton switches - six (6) programmable for various functions (Air horn, Siren, Traffic Directing, Scene Lights, etc.). Rotary knob - seven (7) position rotary switch for RAD (Radio), PA (Public Address), MAN (Manual Control), HF (Hands Free), T1 (Open), T2 (Open), and T3 (Open). Microphone input jack and microphone extension cable. The control head will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0746353	Not Required, Warning Lights Intensity	

0834670	SP	Lightbar, Wln, Frdm D WCX, 81", RRRRsrRWsrROptRsrWRsrRRRR, CCCo	FRONT ZONE UPPER WARNING LIGHTS There will be one (1) 81.00" Whelen® Freedom® IV Model WCX lightbar mounted on the cab roof. The lightbar will include the following: One (1) red flashing LED module in the left side rear corner position. One (1) red flashing LED module in the left side end position. One (1) red flashing LED module in the left side front corner position. One (1) red flashing LED module in the left side first front position. One (1) red steady LED module in the left side second front position. One (1) red flashing LED module in the left side third front position. One (1) white flashing LED module in the left side fourth front position. One (1) red steady burning LED module in the left side fifth front position. One (1) red flashing LED module in the left side sixth front position. One (1) 795 LED traffic light controller set to national standard high priority in the center positions. One (1) red flashing LED module in the right side sixth front position. One (1) red steady burning LED module in the right side fifth front position. One (1) white flashing LED module in the right side fourth front position. One (1) red flashing LED module in the right side third front position. One (1) red steady LED module in the right side second front position. One (1) red flashing LED module in the right side first front position. One (1) red flashing LED module in the right side front corner position. One (1) red flashing LED module in the right side end position. One (1) red flashing LED module in the right side rear corner position. There will be clear lenses included on the lightbar. The following switches may be installed in the cab on the switch panel to control the lightbar: a switch to control the LED modules. the traffic light controller will be by a cab switch with emergency master control. there will be no momentary switch to activate the traffic light controller. The traffic light controller and white LED modules will be disabled when the parking brake is applied. The front facing LED modules may be load managed when the parking brake is applied. The light bar will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. An integrated photocell to measure ambient light will be installed in the cab with a clear view of the sky.
0016380		No Additional Lights Req'd, Side Zone Upper	
0834724	SP	Lights, Front Zone, Wln M6**, 2Lts, CCCo	LIGHTS, FRONT ZONE LOWER There will be two (2) Whelen®, Model M6**, LED warning lights installed on the cab face, above the headlights. The left side front warning light to include red flashing LEDs. The right side front warning light to include red flashing LEDs. The warning light lens color(s) to be clear The lights will be provided with chrome trim. The lights will be controlled utilizing the Whelen® CenCom CORE™, supplier microprocessor system. There will be a switch in the cab on the switch panel to control the lights.
0558676		Daytime Running Lights, Headlights, Qtm, Vel/Imp, Enf/AXT-MUX, (Low Beam)	DAYTIME RUNNING LIGHTS (HEADLIGHTS) The low-beam headlights used as daytime running lights will be activated with the following measures: Ignition switch is turned on Parking brake is released These lights will be deactivated with any one of the following measures: Headlight switch is turned on High-beam flash is turned on Parking brake is set
0815117	SP	Light, Front, Wln IONSM** LED, 1st, CCCo	FRONT WARNING LIGHT There will be one (1) Whelen® Model IONSM**, 1.70" high x 5.90" wide x 1.10" deep LED light(s) with chrome trim and clear lenses mounted on the front of the truck, centered above the grille, 1.50" below the windshield. The light(s) to include red LEDs. The light(s) will be set to steady burn pattern #25. The light(s) will be controlled per the following: A switch in the cab on the switch panel will control the lights White light(s) will be deactivated when the parking brake is applied Amber light(s) will be deactivated when the parking brake is released The light(s) may be load managed when the parking brake is applied These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.

0536105	SP	Flasher, Headlight Alternating, No On/Off Switch	HEADLIGHT FLASHER The high beam headlights will flash alternately between the left and right side. The lights will be flash when the battery switch and the emergency master switches are on. The flash mode will automatically cancel when the hi-beam headlight switch is activated and when the parking brake is set.
0725610	SP	Lights, Side Zone Lower, Wln M6*CS, M6*CS, Clear Lens, CCCo 4Lts	SIDE ZONE LOWER LIGHTING There will be four (4) Whelen®, Model M6*CS, 4.31" high x 6.75" long x 1.37" deep steady burn LED warning lights with chrome trim installed per the following: Two (2) lights located, one (1) each side on the bumper extension. The left side, side front light to include red warning LEDs and the right side, side front light to include red warning LEDs. Two (2) lights located, one (1) each side above rear wheels. The left side, side rear light to include red warning LEDs and the right side, side rear light to include red warning LEDs. The lights will include clear lenses. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. There will be a switch in the cab on the switch panel to control the lights.
0825385	SP	Lights, Door Interior Flash, 4 Dr Cab, Wln M4*S CCCo	INTERIOR CAB DOOR WARNING LIGHTS There will be four (4) Whelen® Model M4*S, 3.37" high x 5.50" long x 1.37" LED warning lights with chrome trim. One (1) light(s) to include amber flashing LED's on the left side cab door One (1) light(s) to include amber flashing LED's on the right side cab door. One (1) light(s) to include amber flashing LED's on the right side crew cab door. One (1) light(s) to include amber flashing LED's on the left side crew cab door. The lens color(s) to be clear. Each light will be located in the door pan as low and far to the outside as practical. Each light will be activated when the battery switch is on, respective door is opened and no other controls are on. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.
0815847		Connectors, Door Interior Flash, All Cabs, Weatherproof	ELECTRICAL CONNECTORS FOR WARNING LIGHTS The lights will be installed with a weatherproof insulated crimped connectors in order to provide ease of connection/disconnection of the circuit applied to.
0813095		Lights, Side, Wln M9**S, CCCo, 1st	SIDE WARNING LIGHTS There will be four (4) Whelen®, Model M9**S, steady burning warning light(s) with chrome trim provided, each front corner of the upper side hatch compartments, each side of cab above the crew cab windows. The light(s) to include red LEDs. The lens color(s) to be clear. These lights will be activated with the side warning switch. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. White LEDs will be deactivated when the parking brake is applied.
0889407		Lights, Side, Wln M6**S, Trm Fet CCCo 1st	SIDE WARNING LIGHTS There will be two (2) Whelen®, Model M6**S, 4.31" high x 6.75" wide x 1.37" deep steady burning warning light(s) with chrome trim provided, in the forward angled portion of the front bumper, one per side. The light(s) to include red LEDs. The warning light lens color(s) to be clear. There will be a switch in the cab on the switch panel to control the lights. The flash pattern of the lights will be controlled through the supplier based electrical control system. White LEDs will be deactivated when the parking brake is applied. Amber, blue, green and red LEDs may be load managed when the parking brake is applied.
0826299	SP	Lights, Side, Wln TLI* LED, Mtd in Rub Rails, CCCo	SIDE WARNING LIGHTS There will be four (4) Whelen®, Model TLI*, 1.50" 5.00" long x 0.50" deep 12 volt DC LED warning light(s) with clear lenses and chrome trim located in the body rub rails in the rub rail under LS3, RS3, LS1, RS1. The lights will NOT be mounted with the rubber gasket behind the light, which will allow the light(s) to fit in the rub rails. The color of the LEDs will be red. There will be a switch in the cab on the switch panel to control the lights. White LEDs will be disabled when the parking brake is applied. These lights will be set to pattern #33, "STEADY". These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system.

0727126		Lights, Rear Zn Lwr, Wln M6**S, For Tail Lt Housing CCCo	REAR ZONE LOWER LIGHTING There will be two (2) Whelen®, Model M6**S, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights located at the rear of the apparatus included in the tail light housings. The left side rear warning light to include red LEDs. The right side rear warning light to include red LEDs. The warning light lens color(s) to be clear. The flash pattern of the lights will be controlled through the supplier based electrical control system. There will be a switch in the cab on the switch panel to control the lights.
0812611	SP	Lights, Rear/Side Up Zone, Wln M9*S, M9D#, M9D#, M9*S, 4lts CCCo	REAR AND SIDE ZONE UPPER WARNING LIGHTS There will be Whelen® LED lights provided at the following locations: There will be two (2) Whelen, Model M9D#, two color LED lights provided at the rear upper bulkhead, facing the rear of the truck: The driver's side rear light to include red and amber LEDs with a clear lens. The passenger's side rear light to include red and amber LEDs with a clear lens. he light(s) will be set to pattern #26 steady. There will be two (2) Whelen, Model M9*S, steady burn LED lights provided at the rear side upper corners of the side sheet facing the side of the truck: The side upper rear light on the left side to include red flashing LEDs. The side upper rear light on the right side to include red flashing LEDs. The color of the side facing LED light lenses will be lens color(s) to be clear. The lights will have chrome trim. These lights will be controlled utilizing the microprocessor based Whelen® CenCom CORE™ system. There will be a switch located in the cab on the switch panel to control the lights.
0006551		Not Required, Lights, Rear Upper Zone Blocking	
0026813		No Hose Bed Warn Lts Brkts Required, Lts On Hatch Compts, Pumper	
0824946		Light, Traffic Directing, Wln TANF65, 34.00" Long, CTA, CCTL9 Controlled, CCCo	TRAFFIC DIRECTING LIGHT There will be one (1) Whelen®, Model TANF65, 34.00" long x 2.37" high x 2.37" deep, amber LED traffic directing light installed at the rear of the apparatus for use with the Whelen CORE™ system control head Model CCTL9. The traffic directing lights will be controlled by the left, center-out, and right arrow buttons on the CCTL9 control head in the cab, utilizing the microprocessor based Whelen® CenCom CORE™ system. The traffic directing light bar will be enabled for activation when the battery switch is on.
0529858		Location, TDL, Recessed Within Treadplate Step	This traffic directing light will be recessed within a treadplate step at the rear of the apparatus.
0824950		Location, Traf Dir Lt Control, Wln, CCTL9, CCCo, In Cab	The traffic directing light controls will be located within the Whelen®, CCTL9 control panel in the cab.
0519934		Not Required, Brand, Hydraulic Tool System	
0649753		Not Required, PTO Driven Hydraulic Tool System	
0649752		Not Required, Hydraulic Power Supply	
0649748		Not Required, Hydraulic Hose	
0649736		Not Required, Hydraulic Tools	

0007150	Bag of Nuts and Bolts	LOOSE EQUIPMENT The following equipment will be furnished with the completed unit: Five (5) bags of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.
0816508	NFPA Required Loose Equipment, Pumper, NFPA/ULC 2024, Provided by Fire Dept	NFPA LOOSE EQUIPMENT NFPA Required Loose Equipment Provided by Fire Department The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department: One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, <i>Standard for High Visibility Public Safety Vests</i> , and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front. Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band. Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities. NFPA Loose Equipment That Should be Considered The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered: 800 ft (60 m) of 2.50" (65 mm) or larger fire hose. 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose. One (1) handline nozzle, 200 gpm (750 L/min) minimum. Two (2) handline nozzles, 95 gpm (360 L/min) minimum. One (1) smooth bore or combination nozzle with shutoff and with 2.50" (65 mm) inlet that flows a minimum of 250 gpm (950 L/min). Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit. Four (4) combination spanner wrenches. Two (2) hydrant wrenches. One (1) double female 2.50" (65 mm) adapter with national hose (NH) threads. One (1) double male 2.50" (65 mm) adapter with national hose (NH) threads. One (1) rubber mallet, for use on suction hose connections. Two (2) salvage covers each a minimum size of 12 ft × 18 ft (3.7 m × 5.5 m). One (1) automatic external defibrillator (AED).
0519913	Not Required, Soft Suction Hose	SOFT SUCTION HOSE There will be no soft suction hose provided.
0821565	Strainer, Provided by Fire Department, Pumper NFPA/ULC 2024 Classification	STRAINER PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 8.3 and CAN/ULC S515:2024 edition, section 5.2 requires a suction strainer when suction hose is provided. The strainer is not on the apparatus as manufactured. The fire department will provide the suction strainer.
0816939	Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0816998	Axe, Flathead, Provided by Fire Department	FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0817000	Axe, Pickhead, Provided by Fire Department	PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

0741569	Paint Process / Environmental Requirements, Appleton	PAINT PROCESS The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows: <u>Manual Surface Preparation</u> - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate. <u>Chemical Cleaning and Pretreatment</u> - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. <u>Surfacer Primer</u> - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded. <u>Finish Sanding</u> - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat. <u>Sealer Primer</u> - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated. <u>Basecoat Paint</u> - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment. <u>Clear Coat</u> - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer. After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color. All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly. The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacture's written paint standards will be available upon request. Environmental Impact Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions: Topcoats and primers will be chrome and lead free. Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals. Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor. Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient. Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean. Paint wastes are disposed of in an environmentally safe manner. Empty metal paint containers will be recycled to recover the metal. Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse. Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.
0709566	Paint, Two-Tone Color, Enforcer	TWO-TONE CAB PAINT The cab will be painted two-tone with the upper section painted #10 white and the lower section painted #100 Red. There will be a standard two-tone cab paint break provided. There will be no cab shield provided.
0709845	Paint, Single Color, Body	BODY PAINT The body will be painted to match the lower section of the cab.

0646897	Paint Chassis Frame Assy, E-Coat, Standard	PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly will be finished with primer and gloss paint to match the lower job color before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc. Components treated with epoxy E-coat protection prior to paint: Two (2) C-channel frame rails Components that are included with the chassis frame assembly that will be painted not e-coated (unless otherwise stated in a secondary option) are: Cross members Axles Suspensions Steering gear Battery boxes Bumper extension weldment Frame extensions Body mounting angles Rear Body support substructure (front and rear) Pump house substructure Steel fuel tank Castings Individual piece parts used in chassis and body assembly The E-coat process will meet the technical properties shown.
0693797	No Paint Required, Aluminum Front Wheels	
0693792	No Paint Required, Aluminum Rear Wheels	
0733739	Paint, Axle Hubs	AXLE HUB PAINT All axle hubs will be painted black #101.
0067398	Door Pans, Unpainted and D/A Finished, Alum Body	The door pans on the body will be unpainted and D/A finished.
0007234	Compartment, Unpainted, D/A Finished	COMPARTMENT INTERIOR FINISH The interior of the compartments will be dual action finished and not painted.
0544129	Reflective Band, 1"-6"-1"	REFLECTIVE STRIPES Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.
0007356	Reflective across Cab Face	The reflective band provided on the cab face will be at the headlight level.
0536954	Stripe, Chevron, Rear, Diamond Grade, Pumper	REAR CHEVRON STRIPING There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, will be covered. The colors will be red and fluorescent yellow green diamond grade. Each stripe will be 6.00" in width. This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.
0082587	Folded Ribbon in Reflective Stripe, Pair With Air Brushing	FOLDED RIBBON IN REFLECTIVE STRIPE There will be one (1) folded type ribbon/s added to the reflective stripe Located on D3 & P3 doors..
0017359	Stripe, Black Outline, Vinyl on Reflective Band	REFLECTIVE STRIPE OUTLINE A black outline will be applied on the top and the bottom of the reflective band. There will be three (3) set of outline stripes required.
0671876	Stripe, Diamond Grade Chevron, Slide Out Tray, Front and Sides	SLIDE OUT TRAY DIAMOND GRADE CHEVRON STRIPING A series of alternating red diamond grade and fluorescent yellow green diamond grade reflective stripes will be applied to the front and sides of two (2) slide out tray(s) located LS3.
0670035	Stripe, Diamond Grade Chevron, Toolboard	TOOLBOARD DIAMOND GRADE CHEVRON STRIPING A series of alternating red diamond grade and fluorescent yellow green diamond grade reflective stripes will be applied to the one (1) toolboard(s) located LS2 tool board.

0660093	Stripe, Reflective, Chevron, Body Compt Door Interior, Diamond Grade	DIAMOND GRADE CHEVRON STRIPE ON BODY COMPARTMENT DOOR INTERIOR A red diamond grade and fluorescent yellow green diamond grade reflective stripe will be provided across the interior of six (6) body compartment door(s). Located inside D1, D3, D4, P1, P3 & P4 door interiors.. The stripe will be located approximately 1.00" up from the bottom, on the door panel.
0667294	Stripe, Reflective, Chevron, Body Compt Door Edge, Diamond Grade	DIAMOND GRADE CHEVRON STRIPE ON COMPARTMENT DOOR EDGE A fluorescent yellow green diamond grade and red diamond grade reflective stripe will be provided on the door edge of two (2) compartment doors. Located on D2 & P2 lap doors..
0545179	Stripe, Diamond Grade, Chevron, Front Bumper	CHEVRON STRIPING ON THE FRONT BUMPER There will be alternating chevron striping located on the front bumper. The colors will be Fluorescent Yellow-Green 983-23 and Red 983-72 diamond grade. The size of the striping will be 6.00".
0634721	Stripe, Reflective, Chevron, Cab Doors Interior, Diamond Grade	CHEVRON, INVERTED "V" STRIPING ON CABDOORS There will be alternating chevron striping located on the inside of each cab door. The striping will consist of the following colors: The first color will be red diamond grade The second color will be fluorescent yellow green diamond grade The size of the striping will be 4.00".
0680372	Stripe, Gold Leaf, Cab Sides, IPO Chrome Molding	CAB STRIPE There will be a genuine gold leaf stripe provided on both sides of the cab in place of the chrome molding.
0033179	Lettering Specifications, Reflective	
0017773	Stripe, Gold Leaf, Side of Body, Over Fender Only, Single Axle	BODY STRIPE There will be a genuine gold leaf stripe provided on each side of the body, over the fender.
0020877	Lettering, Reflective 3.00" (21-40)	LETTERING Twenty-one (21) to forty (40) reflective lettering, 3.00" high, will be provided.
0685979	Lettering, Reflective, 16.00", Each	LETTERING There will be reflective lettering, 16.00" high, with no outline or shade provided. There will be three (3) letters provided.
0685981	Lettering, Reflective, 14.00", Each	LETTERING There will be reflective lettering, 14.00" high, with outline and shade provided. There will be four (4) letters provided.
0685993	Lettering, Reflective, 10.00", Each	LETTERING There will be reflective lettering, 10.00" high, with outline and shade provided. There will be two (2) letters provided.
0686013	Lettering, Reflective, 6.00", Each	LETTERING There will be reflective lettering, 6.00" high, with outline and shade provided. There will be 18 letters provided.
0686033	Lettering, Reflective, 4.00", Each	LETTERING There will be reflective lettering, 4.00" high, with outline and shade provided. There will be six (6) letters provided.
0686042	Lettering, Reflective, 2.00", Each	LETTERING There will be reflective lettering, 2.00" high, with outline and shade provided. There will be eight (8) letters provided.
0686048	Lettering, Reflective, 1.00", Each	LETTERING There will be reflective lettering, 1.00" high, with outline and shade provided. There will be 12 letters provided.

0585190	SP	Emblem, "Star of Life", 6", Reflective, Each	EMBLEM one (1) emblem/s, showing a "Star of Life", will be installed P1 door only on the vehicle. The emblem will be made with reflective material. The size will be approximately 6.00" high x 6.00" wide.
0689407	SP	Emblem, "RIT", On Roll-up Door, Each	RIT EMBLEM An emblem consisting of the acronym RIT will be installed on the roll-up door located LS1 in lower right corner.
0029814		Emblem, Maltese Cross, Gold Leaf, 18"-20", Pair	MALTESE CROSS INSTALLATION There will be one (1) pair of maltese crosses, comprised of genuine gold leaf material, provided and installed Located on cab doors..
0769753		Emblem, American Flag Painted on Cab Grille, All Custom Chassis	CAB GRILLE DESIGN An American flag design will be painted on the cab grille.
0529225		Manuals, Two (2) CD, Fire Apparatus Parts, Custom Chassis	FIRE APPARATUS PARTS CD MANUAL There will be two (2) custom parts manuals for the complete fire apparatus provided in CD format with the completed unit. The manuals will contain the following: Job number Part numbers with full descriptions Table of contents Parts section sorted in functional groups reflecting a major system, component, or assembly Parts section sorted in alphabetical order Instructions on how to locate parts The manuals will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies. Service Parts Internet Site The service parts information included in these manuals are also available on the factory website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.
0531636		Manual, (2) CD, Chassis Service, Custom	CHASSIS SERVICE CD MANUALS There will be two (2) CD format chassis service manuals containing parts and service information on major components provided with the completed unit. The manual will contain the following sections: Job number Table of contents Troubleshooting Front Axle/Suspension Brakes Engine Tires Wheels Cab Electrical, DC Air Systems Plumbing Appendix The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.
0531638		Manual, Two (2) CD, Chassis Operation, Custom	CHASSIS OPERATION CD MANUALS There will be two (2) CD format chassis operation manuals provided.
0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.
0696698		Warranty, Engine, Cummins, 5 Year, WA0181	ENGINE WARRANTY A Cummins five (5) year limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.
0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	STEERING GEAR WARRANTY A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.
0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.

0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.
0733306	Warranty, Single Axle, 5 Year, Meritor General Service, WA0384	SINGLE REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor™ Axle 5 year limited warranty will be provided.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0647720	Warranty, Pierce LED Strip Lights, WA0203	COMPARTMENT LIGHT WARRANTY The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	TRANSMISSION WARRANTY The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission. Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.
0685945	Warranty, Transmission Cooler, WA0216	TRANSMISSION COOLER WARRANTY The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be included with this proposal.
0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	WATER TANK WARRANTY A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.
0693126	Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY An AMDOR roll-up door limited warranty will be provided. The roll-up door will be warranted against manufacturing defects for a period of ten (10) years . A five (5) year limited warranty will be provided on painted roll up doors. The limited warranty certificate, WA0185, is included with this proposal.
0734463	Warranty, Pump, Waterous, 7 Year Parts, WA0382	PUMP WARRANTY The Waterous pump will be provided with a seven (7) year material and workmanship limited warranty . A copy of the warranty certificate will be included with this proposal.
0648675	Warranty, 10 Year S/S Pumping, WA0035	TEN (10) YEAR PUMP PLUMBING WARRANTY The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.
0657990	Warranty, Foam System, Husky 3, WA0231	FOAM SYSTEM WARRANTY The Husky 3 foam system limited warranty certificate, WA0231, is included with this proposal.

0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.
0595412	Warranty, Graphics Lamination, 1 Year, Apparatus, WA0168	ONE (1) YEAR MATERIAL AND WORKMANSHIP The Pierce graphics fading and deterioration limited warranty limited warranty certificate, WA0168, is included with this proposal.
0819254	Certification, Vehicle Stability, CD0196	VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.
0808582	Certification, Engine Installation, Saber FR/Enf, Cummins X10, 2027	ENGINE INSTALLATION CERTIFICATION The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.
0686786	Certification, Power Steering, CD0098	POWER STEERING CERTIFICATION The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification is included with this proposal.
0892691	Certification, Cab Integrity, Saber FR/Enforcer, CD0189	CAB INTEGRITY CERTIFICATION The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below: SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. European Occupant Protection Standard ECE Regulation No.29. SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks. Side Impact The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident. Frontal Impact The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420. Additional Frontal Impact The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420) Roof Crush The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons. Additional Roof Crush The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29) The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.
0631973	Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	CAB DOOR DURABILITY CERTIFICATION Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.
0631978	Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	WINDSHIELD WIPER DURABILITY CERTIFICATION Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i> . The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.
0631974	Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.

0631977	Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	SEAT BELT ANCHOR STRENGTH Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria. SEAT MOUNTING STRENGTH Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.
0735949	Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	PERFORMANCE CERTIFICATIONS Cab Air Conditioning Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria. Cab Defroster Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. <i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i> Cab Auxiliary Heater <i>Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.</i>
0545073	Amp Draw Report, NFPA Current Edition	AMP DRAW REPORT The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. The manufacturer of the apparatus will provide the following: Documentation of the electrical system performance tests. A written load analysis, which will include the following: The nameplate rating of the alternator. The alternator rating under the conditions specified per: Current edition of applicable NFPA standards. The minimum continuous load of each component that is specified per: Current edition of applicable NFPA standards. Additional loads that, when added to the minimum continuous load, determine the total connected load. Each individual intermittent load. All of the above listed items will be provided by the bidder per the current edition of applicable NFPA standards.
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000018	PUMPER, 2ND GEN	
0000012	PIERCE CHASSIS	
0004713	ENGINE, OTHER	
0046396	EVS 4000 Series TRANSMISSION	
0020011	WATEROUS PUMP	
0020009	POLY TANK	
0028048	FOAM SYSTEM	

0020006	SIDE CONTROL
0020007	AKRON VALVES
0020015	ABS SYSTEM
0658751	PUMPER BASE



Electrical Analysis

7/24/2025

Bid #: 986 **Job #:**

Desc: Two (2) San Mateo Consolidated FD Pumper (duplicate to 38840) **Sales Rep:** Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT **Organization:** Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0004485	Transfer Valve, Electric, Watrous		0.00	0.00	0.20
0015216	Reel, Booster, Aluminum - Over Pump, Right Side		0.00	36.00	0.00
0098841	Batteries, (6) Deka Grp 31, 1000 CCA each, Threaded Stud		0.00	3.00	0.00
0549333	Indicators, Engine, Included with Pressure Controller		0.00	0.35	0.00
0589905	Alarm, Back-up Warning, PRECO 1040		0.00	0.50	0.00
0604354	Gauge, Foam Level, FRC, Tank Vision Pro, WLA 360-A00, Class		0.00	0.00	1.23
0622582	Cab Lift, Elec/Hyd, Manual Override, Control Loc Feature, Sab		0.00	180.00	0.00
0624939	Foam Sys, Husky 3, Single Agent, Multi Select Feature		0.00	55.00	0.00
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber		0.00	26.00	0.00
0641743	Primer, Watrous, VPO Motor, (1) VAP Valve, (1) Push Button		0.00	260.00	0.00
0652881	Lights, Dome, FRP Dual LED		0.00	0.00	0.80
0653350	Guards, Vehicle Camera(s), Painted Smooth Aluminum		0.00	0.00	0.00
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine		0.00	0.42	0.00
0730590	Lights, Engine Compt, Custom, Auto Sw, TecNiq E10-W000-1 LED		0.00	0.44	0.00
0734681	Compt, 16.50 W x 25.50 H x 15 D, Ea Side C/C, Sgl Pan, 70"		0.00	0.00	0.00
0745684	High Idle w/Electronic Engine, Auto On, 90 sec Delay, Custom		0.00	1.20	0.00
0805325	Light, Directional, Wln M62T* LED, 15 Degree Angle Bracket,		0.00	1.50	0.00
0806466	Lights, Backup, Wln M62BU, LED, For Tail Lt Housing		0.00	3.20	0.00
0813095	Lights, Side, Wln M9**S, CCCo, 1st		0.00	7.20	4.80
0814902	Camera, Pro-Vision, LS Mux, F/F, RS, LS, R, Cameras, HD HVR,		0.00	1.20	0.00
0815117	Light, Front, Wln IONSM** LED, 1st, CCCo		0.00	0.24	0.16
0820509	ESC/ABS/ATC Wabco Brake System, Single Rear Axle, NFPA		0.00	6.00	0.00
0821232	Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025		0.00	0.00	20.00
0822267	Wiring, Spare, 15 A 12V DC, 6 Ckt FB, Blue Sea 5025 Batt Dir 1st		0.00	0.00	15.00
0823643	Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt		0.00	0.00	10.00
0825385	Lights, Door Interior Flash, 4 Dr Cab, Wln M4*S CCCo		0.00	5.63	0.00
0826299	Lights, Side, Wln TLI* LED, Mtd in Rub Rails, CCCo		0.00	1.97	1.31
0830360	Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 2nd,		0.00	0.00	15.00
0832591	Handlts, Pelican, 9050, 12v DC, B+, Shoulder Strap, Yellow, Qty		0.00	0.00	2.80
0832794	Wiring, Spare, (1) 15A 12V DC, Multi Loc, RS Bdy/Rear, B+ 1st		0.00	0.00	15.00
0833124	Wiring, Spare, 10A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025, Batt		0.00	0.00	10.00
0834416	USB, Cab, 4, 12V DC, Dual USB Termination, NFPA1900/ULC		0.00	0.00	10.00
0888111	Light, Pump Compt, TecNiq E10-W000-01, Pmp Pnl Lt Sw		0.00	0.80	0.00
0889407	Lights, Side, Wln M6**S, Trm Fet CCCo 1st		0.00	2.70	1.80
0895310	Siren, Federal Q2B		0.00	100.00	0.00
0723827	Radio, AM/FM/Media Receiver, Pioneer MVH-S720BHS	Load Managed	0.00	0.00	10.00
0727540	Spotlight, Golight/RadioRay, Model 20**4GT, LED, 1 Lt	Load Managed	0.00	0.00	3.00
0766906	Lights, Wln, PCPSM1*, Pioneer, 12 VDC, 1st	Load Managed	0.00	0.00	12.00
0768059	Lights, Wln, PCPSM2* Pioneer, 12 VDC, 2nd	Load Managed	0.00	0.00	12.00
0768061	Lights, Wln, PCPSM2* Pioneer, 12 VDC, 1st	Load Managed	0.00	0.00	12.00
0776357	Light, Visor, Wln, 12V P*H2* Pioneer, Cnt Feature, 1st	Load Managed	0.00	0.00	26.00
0891411	HVAC, Heavy-Duty, Enforcer, CARE	Load Managed	0.00	0.00	136.00
0002758	Amp Draw, NFPA/ULC Radio Allowance	NFPA	5.00	0.00	0.00
0058796	Gauge Panel, Vertically Hinged	NFPA	0.11	0.00	0.00
0063610	LS 152" Lap, Full Height Compts, FDLER	NFPA	4.50	0.00	4.50
0063624	RS 152" Lap, Full Height Compts, FDLER	NFPA	4.50	0.00	4.50
0083700	Rear, Rollup, 37.75" F-F, 25.88" D	NFPA	0.90	0.00	0.90

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/24/2025

Bid #: 986

Job #:

Desc: Two (2) San Mateo Consolidated FD Pumper (duplicate to 38840)

Sales Rep: Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT

Organization: Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT

Type: Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0092582	Load Manager/Sequencer, MUX	NFPA	0.56	0.56	0.00
0563675	Lights, Clearance/Marker/ID, Rear, Truck-Lite 33050R LED 7Lts	NFPA	0.35	0.00	0.00
0586438	Gauges, (5), Engine - Pump Panel, IAT Pressure Controller	NFPA	0.30	0.00	0.00
0605126	Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	NFPA	1.00	0.00	0.00
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29	NFPA	0.10	0.90	0.00
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	NFPA	1.26	0.00	0.00
0625210	Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED,	NFPA	0.12	0.00	0.00
0625953	Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts,	NFPA	0.70	0.70	0.00
0625975	Handrails, Beavertail, Hansen Tubing, Knurled Aluminum, LED	NFPA	1.00	1.00	2.00
0630489	Air Dryer, Bendix, AD-9, With Wet Tank, Heated, Saber	NFPA	7.81	0.00	0.00
0631711	Lights, Clearance/Marker/ID, Front, Truck-Lite 33250Y LED 0.75"	NFPA	0.35	0.00	0.00
0647647	Lights, Dome, FRP Dual LED 4 Lts	NFPA	0.80	0.80	0.00
0648332	Cab, Enforcer, 7010	NFPA	6.80	10.20	0.00
0648630	Lights, Perimeter Cab, TecNiq E10-WS00-1 LED 4Dr, Angled Brkt	NFPA	3.00	0.00	0.00
0668061	Light, Do Not Move Apparatus, Wln VTX609R Red LED	NFPA	0.30	0.45	0.00
0721609	Controller, Pressure, Pierce LCD, Custom Chassis	NFPA	1.70	0.00	0.00
0725610	Lights, Side Zone Lower, Wln M6*CS, M6*CS, Clear Lens, CCCo	NFPA	3.60	5.40	0.00
0727126	Lights, Rear Zn Lwr, Wln M6**S, For Tail Lt Housing CCCo	NFPA	1.80	2.70	0.00
0729466	Light, Brake Lt, Additional, TecNiq T11-R*00-1, Third Brake	NFPA	0.06	0.54	0.00
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure	NFPA	0.10	0.00	0.00
0739915	Hatch, (2) Liftup, Pumper	NFPA	1.80	0.00	1.80
0745568	Indicator Light, Pump Panel, Ok To Pump, Green	NFPA	0.10	0.00	0.00
0750438	Water Level Gauge, Wln PSTANK2, LED 1-Light, 4-Level	NFPA	1.60	0.00	0.00
0750526	Gauge, Water Level, Pierce, In pressure Controller, Lt Driver	NFPA	1.23	0.00	0.00
0762273	Steps, 4-Door Cab, Dual, 1" Longer Bottom Step, Saber	NFPA	2.14	0.00	0.00
0763688	Garnish Ring(s), Color Coded, Painted, Location	NFPA	0.77	0.00	0.00
0780173	Lights, Perimeter, TecNiq E10-WS00-1 6.39" LED	NFPA	1.76	0.00	0.00
0780176	Lights, Perimeter Body, TecNiq E10-WS00-1 6.39" LED 2lts, Rear	NFPA	0.88	0.00	0.00
0780178	Lights, Perimeter Pump House, TecNiq E10-WS00-1 6.39" LED	NFPA	0.88	0.00	0.00
0781587	Light, Step, Additional, TecNiq E10-W000-1 LED	NFPA	0.48	0.00	0.00
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	NFPA	4.20	4.20	0.00
0793062	Lights, Step, P25 LED 4lts, Control Feature	NFPA	1.00	0.00	0.00
0804514	Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw	NFPA	0.83	2.49	0.00
0805983	Lights, Hatch Compt, 42", LED, Light Strips, 2-Sides 4 Dr,	NFPA	0.84	0.84	0.00
0810947	Engine, Cummins X10, 450 hp, HT1650 lb-ft, W/OBD, EPA 2027,	NFPA	1.00	0.00	0.00
0812611	Lights, Rear/Side Up Zone, Wln M9*S, M9D#, M9D#, M9*S, 4lts	NFPA	10.80	7.20	0.00
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX,	NFPA	1.20	0.00	0.00
0818615	Cabinet, Rr Fcng, LS, Overhead, 21 W x 10 H x 20 D, Lift,	NFPA	0.11	0.11	0.00
0818619	Cabinet, Rr Fcng, RS, Overhead, 21 W x 10 H x 20 D, Lift, Drop	NFPA	0.11	0.11	0.00
0824946	Light, Traffic Directing, Wln TANF65, 34.00" Long, CTA, CCTL9	NFPA	0.60	1.20	0.00
0831800	Lights, Hose Bed, Below Alum Cvr, TecNiq E10-W000-1 LED 4lts	NFPA	1.76	0.00	0.00
0833002	DEF Tank, 8.0 Gallon, LS Fill, Rear of Rear Axle, Triple Door, 2nd	NFPA	0.60	11.40	0.00
0834670	Lightbar, Wln, Frdm D WCX, 81",	NFPA	6.48	13.08	17.19
0834724	Lights, Front Zone, Wln M6**, 2Lts, CCCo	NFPA	2.25	2.25	0.90
0834751	Siren, Aux, Wln CHOWLER Speaker System, CCCo	NFPA	1.50	13.50	0.00
0887546	Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics,	NFPA	2.00	2.00	0.00
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	NFPA	0.07	0.00	0.00
0890968	Light Shield/Step 8", PS, S/S Under Crosslay, TecNiq E10 Stp Lt	NFPA	3.50	0.00	0.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/24/2025

Bid #: 986

Job #:

Desc: Two (2) San Mateo Consolidated FD Pumper (duplicate to 38840)

Sales Rep: Klockzien, Dave

Customer: SAN MATEO CONSOLIDATED FIRE DEPT

Organization: Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT

Type: Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0890969	Light Shield/Step 8", S/S Shield Under Crosslay, TecNiq E10 Stp	NFPA	3.50	0.00	0.00
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	NFPA	1.00	0.00	0.00
0892704	Lights, Walk Surf, 8-P25 LED, Hose Bed Cover, Overall Height	NFPA	0.07	0.00	0.00
0647729	Alternator, 320 amp, Delco Remy 40SI	S	0.00	0.00	0.00
0832998	Wiring, Radio Spare, 50 A 12V DC, Batt Dir, 1st NFPA1900/ULC	Mission Critical	50.00	0.00	0.00
Load Totals:			151.78	774.98	350.89

Note: Minimum Continuous Load is in "Blocking Right of Way" mode.(Reference current edition of NFPA 1901)

Note: Intermittent Load items are not factored in on any alternator load comparisons. These items are included on the report for reference only and should be looked at as amp draw exclusion items. (Reference current edition of NFPA 1901)

Note: Total Connected Load "Demand" represents Total Connected Load minus any Load Managed items

Alternator Output at Idle: 187.00

Minimum Continuous Load	
Supply:	187.00
Demand:	151.78
Variance:	35.22

Alternator Output at Governed Speed: 285.00

Total Connected Load	
Supply:	285.00
Demand:	291.67
Variance:	-6.67

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply

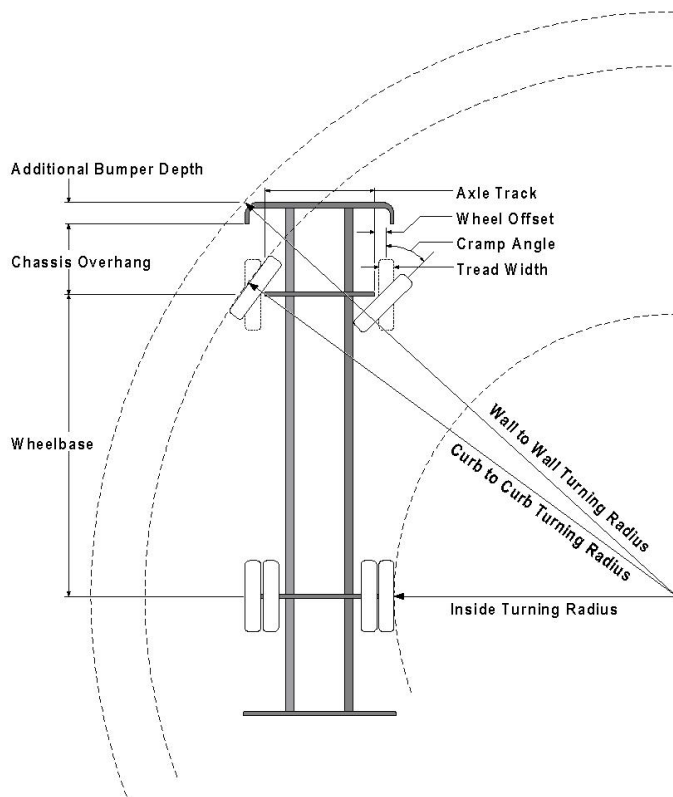


Turning Performance Analysis

07/24/2025

Bid Number: 986
Department: SAN MATEO CONSOLIDATED FIRE
DEPT

Chassis: Enforcer Chassis
Body: Pumper, Medium, Aluminum, 2nd Gen



Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	3.12 in.
Tread Width:	12.4 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	16 in.
Front Overhang:	81.95 in.
Wheelbase:	187.5 in.

Calculated Turning Radii:

Inside Turn:	14 ft. 10 in.
Curb to curb:	28 ft. 2 in.
Wall to wall:	32 ft. 4 in.

Category	Option	Description
Axle, Front, Custom	0630705	Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer
Wheels, Front	0019575	Wheels, Front, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot
Bumpers	0817116	Bumper, 16" Extended, Polished S/S, Saber FR/Enforcer
Tires, Front	0582936	Tires, Front, Goodyear, G289 WHA, 315/80R22.50, 20 ply

Notes:

*Actual Inside cramp angle may be less than shown.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:	
Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

4 PRODUCT WARRANTIES

Exhibit "C"



Fire and Rescue Apparatus

One (1) Year Material and Workmanship

Basic Apparatus

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Portions of the apparatus manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	Twelve (12) months.
Conditions and Exclusions: See Also Paragraphs 2 thru 4	No specific exclusions apply

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Cummins Warranty

Worldwide

Fire Apparatus/Crash Trucks



Coverage

Products Warranted

This Warranty applies to new diesel Engines sold by Cummins and delivered to the first user on or after April 1, 2007, that are used in fire apparatus truck and crash truck* applications Worldwide.

Base Engine Warranty

The Base Engine Warranty covers any failures of the Engine which result, under normal use and service, from a defect in material or factory workmanship (Warrantable Failure). This Coverage begins with the sale of the Engine by Cummins and ends five years or 100,000 miles (160,935 kilometers), whichever occurs first, after the date of delivery of the Engine to the first user.

Engine aftertreatment components included in the Cummins Critical Parts List (CPL) and marked with a Cummins part number are covered under Base Engine Warranty.

Additional Coverage is outlined in the Emission Warranty section.

These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.

Cummins Responsibilities

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay for reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

Cummins will pay reasonable costs for towing a vehicle disabled by a Warrantable Failure to the nearest authorized repair location. In lieu of the towing expense, Cummins will pay reasonable costs for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging when the repair is performed at the site of the failure.

Owner Responsibilities

Owner is responsible for the operation and maintenance of the Engine as specified in Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Except for Engines disabled by a Warrantable Failure, Owner must also deliver the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items provided during Warranty repairs unless such items are not reusable due to the Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

Owner is responsible for a \$100 (U.S. Dollars) deductible per each service visit under this plan in the 3rd, 4th and 5th years of Base Engine Warranty. The deductible will not be charged during the first 2 years of the Base Engine Warranty.

Limitations

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel



exhaust fluid.

This Warranty does not apply to accessories supplied by Cummins which bear the name of another company. Such non-warranted accessories include, but are not limited to: alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, vacuum pumps, power steering pumps, fan drives and air compressors. Cummins branded alternators and starters are covered for the first two years from the date of delivery of the Engine to the first user, or the expiration of the Base Engine Warranty, whichever occurs first.

Failures resulting in excessive oil consumption are not covered beyond the duration of the Coverage or 100,000 miles (160,935 kilometers) or 7,000 hours from the date of delivery of the Engine to the first user, whichever of the three occurs first. Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Failures of belts and hoses supplied by Cummins are not covered beyond the first year from the date of delivery of the Engine to the first user or the duration of the Warranty, whichever occurs first.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THIS WARRANTY AND THE EMISSION WARRANTY SET FORTH HEREINAFTER ARE THE SOLE WARRANTIES MADE BY CUMMINS IN REGARD TO THESE ENGINES. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Emission Warranty

Products Warranted

This Emission Warranty applies to new Engines marketed by Cummins that are used in the United States** in vehicles designed for transporting persons or property on a street or highway. This Warranty applies to Engines delivered to the first user on or after September 1, 1992.

Coverage

Cummins warrants to the first user and each subsequent purchaser that the Engine is designed, built and equipped so as to conform at the time of sale by Cummins with all U.S. federal emission regulations applicable at the time of manufacture and that it is free from defects in material or factory workmanship which would cause it not to meet these regulations within the longer of the following periods: (A) Five years or 100,000 miles (160,935 kilometers) of operation, whichever occurs first, as measured from the date of delivery of the Engine to the first user or (B) The Base Engine Warranty.

If the vehicle in which the Engine is installed is registered in the state of California, a separate California Emission Warranty also applies.

Limitations

Failures, other than those resulting from defects in material or factory workmanship, are not covered by this Warranty.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Cummins is not responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs or other losses resulting from a Warrantable Failure.

**CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL
OR CONSEQUENTIAL DAMAGES.**

* Airport operated crash trucks and fire department
operated trucks employed to respond to fires,
hazardous material releases, rescue and other
emergency-type situations.

** United States includes American Samoa, the
Commonwealth of Northern Mariana Islands, Guam,
Puerto Rico and the U.S. Virgin Islands.



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R. H. SHEPPARD CO., INC.
101 Philadelphia St.
Hanover, PA 17331
Pierce Manufacturing Inc.
2600 American Drive
Appleton, WI 54912

LIMITED WARRANTY: The R. H. Sheppard Co. Inc., ("Sheppard") warrants all M110PKG1 and M110SAU1 steering gears manufactured and sold to Pierce Manufacturing Inc. ("Pierce") for application on Pierce TAK-4 equipped vehicles to be free from defects of workmanship and material under normal use and service for a period of thirty six months from the in service date of the vehicle to its original owner.

Vehicle applications where Sheppard product is used require an application approval before production build. If Pierce uses Sheppard product for any purpose or application which has not been approved by Sheppard in advance, including aftermarket devices (defined as a device added to the steering system directly or indirectly affecting the performance or operation of the Sheppard product in its approved application) not tested and approved by Sheppard this limited warranty SHALL NOT APPLY AND SHALL BE VOID. SHEPPARD MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED. SHEPPARD EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

SHEPPARD SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES OR FOR LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF A PRODUCT. Pierce expressly acknowledges its obligation to inform all users (customers) of the above disclaimer.

CONDITIONS: Claims under this Limited Warranty may only be made by Pierce. In no event shall Sheppard be held liable for warranty charges by unauthorized persons. No allowance will be made for repairs or alterations, unless made with the written consent of Sheppard. Authorized Pierce dealers shall be the only authorized repair facility for Sheppard products applied to Pierce vehicles. Any warrantable repair made under this Limited Warranty must be made on or before 36 months of the in-service date for the Product to which the claim relates. Sheppard shall not be liable for claims made after such date. Sheppard product fitted to Pierce vehicles that are repaired at a repair facility other than an authorized Pierce dealer within the warranty period will be considered for payment under the guidelines of this agreement only by joint written consideration of Sheppard and Pierce warranty departments. It shall be the responsibility of the Pierce warranty department to notify Sheppard if and when this situation occurs. Sheppard will not be held responsible for damage to other steering components such as but not limited to pumps and reservoirs due to improper adjustment of steering gear relief plungers. Vehicle downtime and towing will not be considered under warranty.

REMEDIES: The sole and exclusive remedy of Pierce for Sheppard's breach of the foregoing warranty is limited to the return and repair or reimbursement as follows:

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 2

Warranty Support: In support of the Pierce dealer network, Sheppard will provide a toll-free "Hotline" service to assist in the diagnosis and troubleshooting of steering problems. The R. H. Sheppard Co., Inc. Field Service Department can be reached at 1-800-274-7437 for assistance. Sheppard will require that Pierce dealers contact this toll-free "Hotline" for approval before product is removed from a vehicle in a warranty situation. When contacted regarding a warranty situation, the Sheppard representative will provide an authorization number for removal of the product. This Returned Goods Authorization (RGA) number must be included in all warranty correspondence and attached to all returned goods.

Procedure: In the event of a warranty situation, the servicing dealer shall contact the Sheppard Hotline and receive an RGA number before replacing any steering gear. For M110PKG1 and M110SAU1 steering gear models, the dealer will first obtain an RGA number from Sheppard, and then order the replacement gear from Pierce. Replacement M110PKG1 and M110SAU1 steering gears shall be shipped from Pierce once those models are in full production. A warranty claim for both parts and labor will then be generated by the dealer and sent to Pierce. After reviewing the claim, Pierce will submit it to Sheppard for reimbursement.

Parts Reimbursement: Sheppard agrees to reimburse Pierce at Pierce's purchase price plus 30% mark-up for parts found to be defective within the warranty period. Parts being returned for warranty consideration shall be sent to the R. H. Sheppard Company, 447 E. Middle St., Hanover, PA 17331 ATTN: Warranty Dept. Sheppard's determination as to whether the part is covered by the foregoing warranty is final and conclusive. Sheppard requires the return of complete steering gears only. Individual seals replaced under warranty **should not** be returned unless specifically requested by Sheppard. All parts being returned for warranty consideration must be clearly tagged with all pertinent warranty information including, but not limited to (1) Returned Goods Authorization number (RGA); (2) claim number; (3) date in service; (4) date of failure; (5) mileage; (6) part number; (7) labor hours; (8) dealer labor rate and; (9) dollar amount claimed. Claims submitted without prior authorization are subject to rejection under this agreement.

Labor: Labor to repair Sheppard product found to be defective within the warranty period will be reimbursed at not more than 10 hours per vehicle. Labor shall be reimbursed at the rate of \$85.00 USD per hour for M110PGK1 and M110SAU1 steering gears.

Freight: Pierce will collect M110PGK1 and M110SAU1 warranty material at a designated collection point. Inbound freight to the Pierce collection point will be the responsibility of Pierce. All warranty material should be returned from the Pierce collection point to R. H. Sheppard Co. Freight Collect by a Sheppard-specified common carrier based on location of the Pierce collection point. Sheppard does not require the return of failed seals. Any freight charges incurred for the return of seals will be the responsibility of Pierce. Parts returned for warranty consideration without prior authorization are subject to rejection under this agreement and may be subject to a charge back of inbound freight charges. Parts rejected under this warranty will be returned to Pierce Freight Collect or scrapped by Sheppard at Pierce's discretion.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 3

Outside Purchases: Pierce authorized dealers shall be the only outlet for repair, warranty service and parts for Sheppard products applied to Pierce vehicles. Sheppard will not be responsible for consumables such as hoses, belts, fluids, fittings or miscellaneous shop material that may be required for the repair of the product.

Warranty Documentation: Warranty credit memos will be issued monthly to the Pierce Warranty Department. Monthly credit memos will include (1) claim number; (2) part number; (3) parts reimbursement; (4) labor reimbursement; (5) any applicable Pierce reference number and; (6) reason for rejection or acceptance of the claim. Credit memos will be issued in U.S. funds. Debits for warranty claims will not be accepted under this agreement. Claim disposition will constitute the final and conclusive resolution of warranty claims.

Parts Retention: Sheppard will retain parts submitted for warranty consideration for a period of sixty (60) days for any material found to be rejected for warranty. Sheppard will notify Pierce within sixty (60) days of receipt of Sheppard's determination as to whether any such part is covered by this warranty. Warranty reimbursement will be issued within thirty days of receipt of material at Sheppard.

Good-Will Requests: Good-Will requests will be considered jointly between Sheppard and Pierce for equitable compensation.

RECALLS: Sheppard retains the right to review information regarding federal motor vehicle recall and /or product repair programs if Sheppard products fitted to Pierce vehicles are alleged to be non-compliant with federal motor vehicle safety standards. Sheppard retains the right to review any claims of product defect or non-compliance before participating in reimbursement of expenses incurred as a result of alleged non-compliance or defect of its products. Sheppard agrees to negotiate in good faith for the reimbursement of expenses incurred by Pierce for all administrative, material and labor cost and expense associated with any recall where Sheppard product is found to be defective or non-compliant with federal motor vehicle standards.

MISCELLANEOUS: This writing constitutes the full complete and final statement of Sheppard's limited warranty for M110PKG1 and M110SAU1 products sold to Pierce. All prior oral or written correspondence, test data, negotiations, representations, understandings and the like regarding products are merged in this writing and extinguished by it. This limited warranty may not be altered, amended extended or modified except by a writing signed by the President or Vice President of Sheppard. No employee, vendor, dealer, distributor or other representative of Sheppard has authority to make statements to extend, expand, alter or amend the terms of this Limited Warranty. Sheppard expressly disclaims any statements contrary to the Limited Warranty. Sheppard's failure at any time to enforce any of the terms and conditions stated herein shall not constitute a waiver of any provisions herein. This Limited Warranty shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 4

Any legal actions which may arise as a result of disputes, controversies or claims arising out of or related to this limited warranty shall be in such forum as Sheppard and Pierce shall agree, or, in the absence of agreement, in a court of appropriate jurisdiction other than in the county in which either party is located. This Limited Warranty shall not be assigned by Pierce.

COOPERATIVE EFFORT: Sheppard and Pierce agree to work cooperatively toward expanding this warranty coverage to a period of sixty months from the in service date. These cooperative efforts shall focus on examining the effects of increased heat generated by 2007 model engines and its impact on the entire power steering system.

AGREEMENT: This agreement is effective April 3, 2006 and may be modified by mutual agreement between Sheppard and Pierce of a signed amendment to be attached to the original Limited Warranty. There are no third party beneficiaries to this Limited Warranty. This warranty agreement applies to Pierce authorized dealers only. It does not encompass any special arrangements that Pierce may now have or that Pierce may enter into, with any other segments of the trucking industry. This warranty agreement does not apply to non-conforming product removed at Pierce assembly plants.

This Limited Warranty agreement between the R. H. Sheppard Co., Inc and Pierce Manufacturing Inc. may be terminated by either party with thirty days written notice prior to termination.

Signed at Pierce Manufacturing Inc., Appleton, WI this _____ day of _____, 2006.

R. H. SHEPPARD CO., INC.

PIERCE MANUFACTURING INC.

Authorized Signature

Authorized Signature

Title

Title



Fire and Rescue Apparatus

Lifetime Fifty (50) Year Structural Integrity

Custom Chassis Frame

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	Custom chassis frame rail manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Fifty (50) Years (Expected Life of Apparatus)
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies to the frame rails only, crossmembers are excluded. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship TAK-4 Independent Front Suspension

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The TAK-4 Front Independent Suspension and Steering Gears shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years -or- 30,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty excludes brake pads, brake rotors, seal boots and shock absorbers.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

SUPPLIER

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	The Meritor axle shall be covered by Meritor as indicated in the attached Meritor warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor warranty description shall apply.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

CUMMINS-MERITOR COMMERCIAL VEHICLE SYSTEMS WARRANTY

COVERAGE FOR THE
UNITED STATES AND CANADA
MODEL YEAR 2024 VEHICLES



Meritor

WARRANTY INFORMATION

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How to Read Warranty Coverage

Number of Years	Mileage (in thousands) Unl = Unlimited	P = Parts Only P&L = Parts and Labor

Notice:

Models or components that are approved for use by Cummins-Meritor's vocational guidelines contained in Cummins-Meritor publication TP-9441 for axles, SP-8320 for trailer axles and TP-12126 for drivelines, or any other products that have an application approval completed with Cummins-Meritor which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Unl/P).

Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles, parts only (1/Unl/P).

Advantage Program

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting **meritor.com** or by contacting Cummins-Meritor at **866-OnTrac1 (866-668-7221)**.

LINEHAUL WARRANTY INFORMATION

Vocational Definition of Linehaul

- Long distance hauling of food, goods and finished materials
- Not included are raw ferrous materials, minerals (except oil), sand, gravel, stone, rocks, topsoil, waste or logs
- Linehaul includes turnpike and hub & spoke

Linehaul Vehicles

- Auto Hauler¹
- Bulk Hauler¹
- Chip Hauler^{1,2}
- Doubles
- Flatbed
- General Freight
- Grain Hauler¹
- Livestock Hauler
- Moving Van
- Pipe Hauler
- Refrigerated Freight
- Tanker¹
- Triples

¹ Cummins-Meritor classifies these vehicle types as high center of gravity, which require special axle housing considerations.

² Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.

Linehaul Typically Is:

- High mileage operation (over 60,000 miles/year)
- Greater than 30 miles between starts and stops
- Maximum grades of 12%
- Well maintained highways of concrete or asphalt construction (100% on-road)

- Category A job sites, terminals, docks and transfer sites (defined as pavement, concrete or maintained and hard packed gravel).

Note: Category B job sites, terminals, docks, transfer sites (defined as loose or unmaintained sand, dirt or gravel; landfill; farm field; mud; or other similar surfaces) are **NOT** approved for certain linehaul axle models.

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/750/P&L

FD-965	MFS-10-144A-N	MFS-12-143A-N	MFS-13B-132B-N	MFS-14G-132B-N
FF-941	MFS-12-122A-N	MFS-12E-143A-N	MFS-13B-132C-N	MFS-14-132C-N
FF-942	MFS-12-122B-N	MFS-12-144A-N	MFS-14-122A-N	MFS-14F-132C-N
FF-943	MFS-12-122C-N	MFS-13-122A-N	MFS-14-122B-N	MFS-14G-132C-N
FF-944	MFS-12E-122A-N	MFS-13-122B-N	MFS-14F-122B-N	MFS-14-142B-N
FF-961	MFS-12E-122B-N	MFS-13-122C-N	MFS-14G-122B-N	MFS-14F-142B-N
FF-966	MFS-12E-122C-N	MFS-13-132B-N	MFS-14-122C-N	MFS-14G-142B-N
FF-967	MFS-12-124A-N	MFS-13-132C-N	MFS-14F-122C-N	MFS-14-142C-N
FG-941	MFS-12-132B-N	MFS-13-143A-N	MFS-14G-122C-N	MFS-14F-142C-N
FG-943	MFS-12-132C-N	MFS-13-144A-N	MFS-14-124A-N	MFS-14G-142C-N
MFS-10-122A	MFS-12E-132B-N	MFS-13B-122B-N	MFS-14-132B-N	MFS-14-143A-N
MFS-10-143A-N	MFS-12E-132C-N	MFS-13B-122C-N	MFS-14F-132B-N	MFS-14-144A-N

Rear Drive Single Axles – 5/750/P&L

MS-19-14X	MS-23-17H ^{1,2}	RS-23-160	RS-23-185
RS-21-160	MS-23-17X ²	RS-23-161	RS-23-186

¹ Not approved for use in any Category B job sites, terminals, docks or transfer sites.

² Recommend 11 mm minimum wall thickness for these models used in combination with high center of gravity vehicles and trailing arm suspensions or vehicles operating mainly in Canada.

LINEHAUL WARRANTY INFORMATION

Rear Drive Tandem/Tridem Axles – 5/750/P&L

RT-40-160/P ^{1,2}	RZ-166 ²	MA-40-17H ³	MT-34-14X/P ⁴	MT-40-14X/P ⁴
RT-46-160/P ^{1,2}	RT-50-160/P ^{1,2}	RZ-188	MT-40-14T/P	MT-40-14H/E ^{3,4}
RT-46-164/P ^{1,2}	MA-40-165	MA-40-175	MT-40-14X/P ⁴	

¹ These models required for Chip Hauler and Linehaul warranty consideration.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

³ Not approved for use in any Category B job sites, terminals, docks or transfer sites.

⁴ Recommend 11 mm minimum wall thickness for these models used in combination with high center of gravity vehicles and trailing arm suspensions or vehicles operating mainly in Canada.

Trailer Axles¹

Beam and Brackets	5/500/P, 1/100/L
TPX3000 Axle Series ²	10/Unl/P, 1/Unl/L
Wheel End Systems ³	
Standard System ⁴	1/100/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁵	7/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² Structural components only excluding spindle wear. Spindle wear is 5/Unl/P, 1/Unl/L.

³ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁴ When installed by Cummins-Meritor.

⁵ When specified with AxlePak7 wheel end system, coverage on Meritor Tire Inflation System (MTIS) thru-tee and stator is 7/Unl/P, 1/Unl/L.

TAG/Pusher Axles¹

TQ, TR Beam and Brackets	5/750/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

Trailer Mechanical Suspension Systems¹

IMS40 (Integrated Mechanical Suspension – Tandem) ²	1/Unl/P&L
IMS20 (Integrated Mechanical Suspension – Single) ²	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

Trailer Air Suspension Systems

MPA40 (Tandem Axle Parallelogram) ¹	
Major Structural Components	5/500/P, 1/100/L
Curbing Damage Warranty ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/Unl/P, 3/Unl/L
MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ Fastener torque coverage is limited to 2/Unl/P&L when torqued by Cummins-Meritor (For axle and ABS coverage, refer to appropriate product warranties.)

² "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding sub-frame consisting of the frame rails, cross-members and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

LINEHAUL WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	5/500/P, 1/100/L
Q+ Drum Brake™ ¹	5/500/P, 1/Unl/P&L
ASA	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ²	12-Years or Wearable Life/P
EX+ L and EX+LS Air Disc Brake™ ³	5/500/P, 1/Unl/L
EX+L Air Disc Brake Extended Standard Warranty ^{3,4}	5/500/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III.

² Based on stamped wear diameter max.

³ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.
Warranty coverage for pads is 1/100/P.

⁴ Applies only to calipers using friction: MA9300 (EX225LXXXCGXXX).

Drivelines

RPL	5/500/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
92N	1/Unl/P

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

GENERAL SERVICE WARRANTY INFORMATION

General Service Vehicles

- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler
- Cross Country Coach
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Newspaper Delivery
- Pick-Up and Delivery
- Pipe Hauler
- Platform Auto Hauler
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Trailer
- Tour Bus
- Wrecker

General Service Typically Is:

- Typically, moderate mileage operation (less than 60,000 miles/year)
- An average of 3 to 30 miles between starts and stops
- Maximum grades of 12%
- Generally, on-road service (less than 10% off-road allowed)
- Category A job sites, terminals, docks and transfer sites (defined as pavement, concrete or maintained and hard packed gravel) or Category B job sites, terminals, docks and transfer sites (defined as loose or unmaintained sand, dirt or gravel; landfill; farm field; mud, or other similar surfaces)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-7-113C-N	MFS-12-132C-N	MFS-14G-122B-N	MFS-16-122A-N
FF-941	MFS-7-153C-N	MFS-12E-132C-N	MFS-14-122C-N	MFS-16-133A-N
FF-942	MFS-7-163C-N	MFS-12-143A-N	MFS-14F-122C-N	MFS-16-135A-N
FF-943	MFS-8-113B-N	MFS-12-144A-N	MFS-14G-122C-N	MFS-16-143A-N
FF-944	MFS-8-143A-N	MFS-12E-143A-N	MFS-14-124A-N	MFS-18-133A-N
FF-946	MFS-8-153B-N	MFS-13-122A-N	MFS-14-132B-N	MFS-18-135A-N
FF-961	MFS-8-163B-N	MFS-13-122B-N	MFS-14F-132B-N	MFS-18-193A-N
FF-966	MFS-10-122A	MFS-13B-122B-N	MFS-14G-132B-N	MFS-20-133A-N
FF-967	MFS-10-143A-N	MFS-13-122C-N	MFS-14-132C-N	MFS-20-135A-N
FG-941	MFS-10-144A-N	MFS-13B-122C-N	MFS-14F-132C-N	MFS-20-192A-N
FH-941	MFS-12-122A-N	MFS-13-132B-N	MFS-14G-132C-N	MFS-20-193A-N
FH-946 ¹	MFS-12E-122A-N	MFS-13-132C-N	MFS-14-142B-N	MFS-22-135A-N
FL-941	MFS-12-122B-N	MFS-13B-132B-N	MFS-14F-142B-N	MFS-22H-135A-N
FL-943	MFS-12E-122B-N	MFS-13B-132C-N	MFS-14G-142B-N	MFS-22-193A-N
MFS-6-151A-N	MFS-12-122C-N	MFS-13-143A-N	MFS-14-142C-N	MFS-22H-193A-N
MFS-6-153B-N	MFS-12E-122C-N	MFS-13-144A-N	MFS-14F-142C-N	
MFS-6-162B-N	MFS-12-124A-N	MFS-14-122A-N	MFS-14G-142C-N	
MFS-6-153C-N	MFS-12-132B-N	MFS-14-122B-N	MFS-14-143A-N	
MFS-6-162C-N	MFS-12E-132B-N	MFS-14F-122B-N	MFS-14-144A-N	

¹ Can also be used with reduced steer angles in tag position in Coach applications.

GENERAL SERVICE WARRANTY INFORMATION

Rear Drive Single Axles – 2/Unl/P&L

MS-17-13X	MS-21-14X	RC-23-162 ¹	RS-23-186	MS-26-616-SP
MS-17-14X	MS-23-17X	RC-23-165 ¹	RS-24-160	RS-30-185
MS-19-13X	RS-21-160	RS-23-160	RC-25-160	MS-30-616
MS-19-14X	RC-23-160	RS-23-161	RS-26-185	MS-30-616-SP
MS-21-13X	RC-23-161	RS-23-185	MS-26-616	RS-35-380

¹ 3/Unl/P&L if PreSet by Cummins-Meritor.

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-44-14X/P	RT-52-185 ¹	MT-70-380
MT-40-14T/P	RT-46-169	MT-58-616	RZ-188
MT-40-14X/P	MT-52-616	RT-58-185 ¹	

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P	RT-46-160/P	RT-46-164/P	RT-50-160/P	RZ-166

Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A

Brake Components

Cam Q Series Trailer Brakes ¹	3/Unl/P, 1/Unl/L
Cam P ²	2/200/P
Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ^{1,2}	2/200/P&L
ASA	3/Unl/P
ASA ²	2/200/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ³	12-Years or Wearable Life/P
EX+ Air Disc Brake™ ⁴	2/Unl/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III or Chassis Protect.

² Applies to Tour Bus and Cross Country Coach only.

³ Based on stamped wear diameter max.

⁴ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.

Drivelines

RPL	4/400/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
92N	1/Unl/P

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

GENERAL SERVICE WARRANTY INFORMATION

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
TPX4000 Axle Series ³	10/Unl/P, 1/Unl/L
Wheel End Systems ⁴	
Standard System ⁵	1/Unl/P&L
AxlePak5	5/Unl/P&L
AxlePak7 ⁶	7/Unl/P&L
AxlePak10 ⁷	10/Unl/P&L

¹ For brake components and ABS coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Structural components only excluding spindle wear. Spindle wear 5/Unl/P, 1/Unl/L.

⁴ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁵ When installed by Cummins-Meritor.

⁶ When specified with AxlePak7 wheel end system, coverage on Meritor Tire Inflation System (MTIS) thru-tee and stator is 7/Unl/P, 1/Unl/L.

⁷ AxlePak10 is limited to Intermodal Chassis applications equipped with TPX4000 series axles.

TAG/Pusher Axles¹

TQ, TR Beam and Brackets	3/Unl/P, 1/Unl/L
MC14002, MC16003, FH946 ²	2/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 3/Unl/P&L if sold with PreSet by Cummins-Meritor.

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

Trailer Mechanical Suspension Systems¹

IMS40 (Integrated Mechanical Suspension – Tandem) ²	1/Unl/P&L
IMS20 (Integrated Mechanical Suspension – Single) ²	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² All other suspension components refer to appropriate manufacturer's warranty.

Trailer Air Suspension Systems¹

MPA40 (Tandem Axle Parallelogram) ²	
Major Structural Components	5/Unl/P, 1/Unl/L
Curbing Damage Warranty ³	5/500/P, 1/100/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
PinLoc Air Controls	1/Unl/P&L
PinLoc Actuator	3/Unl/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings ⁴	5/Unl/P, 3/Unl/L
Shock Absorbers	2/Unl/P&L
Lift Kit System	1/Unl/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Fastener torque coverage is limited to 2/Unl/P&L when torqued by Cummins-Meritor.

³ "Curbing damage" is defined as deformation (bending, buckling or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding sub-frame, consisting of the frame rails, cross-members and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferable to another trailer VIN and coverage does not apply if the trailer is deemed to be a total loss, scrapped or otherwise not salvageable.

⁴ Raw wood applications 3/Unl/P, 1/Unl/L

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Heavy Service/Specialty Vehicles

- Airport Rescue Fire Fighting (ARFF)
- Airport Shuttle¹
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Mixer
- Demolition
- Drill Rig
- Dump
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Train
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rear Loader (Refuse)
- Recycling Truck
- Residential Pick-Up (Refuse)
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus¹
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Utility Truck
- Winch Truck

¹ Commercial chassis only

Heavy Service/Specialty Vehicle Typically Is:

- Moderate mileage operation (less than 60,000 miles per year)
- On/off-road vocations (10% or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)
- An average of three (3) miles between starting and stopping

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Unl/P&L

FD-965	MFS-7-113C-N	MFS-12E-132C-N	MFS-14G-122B-N	MFS-16-122A-N
FF-941	MFS-7-153C-N	MFS-12-143A-N	MFS-14-122C-N	MFS-16-133A-N
FF-942	MFS-7-163C-N	MFS-12-144A-N	MFS-14F-122C-N	MFS-16-135A-N
FF-943	MFS-8-113B-N	MFS-12-155	MFS-14G-122C-N	MFS-16-143A-N
FF-944	MFS-8-153B-N	MFS-13-122	MFS-14-124A-N	MFS-18-133A-N
FF-946	MFS-8-163B-N	MFS-13-122B-N	MFS-14-132B-N	MFS-18-135A-N
FF-961	MFS-10-122A	MFS-13B-122B-N	MFS-14F-132B-N	MFS-18-192A-N
FF-966	MFS-10-143A-N	MFS-13-122C-N	MFS-14G-132B-N	MFS-18-193A-N
FF-967	MFS-10-144A-N	MFS-13B-122C-N	MFS-14-132C-N	MFS-20-133A-N
FG-941	MFS-12-122	MFS-13-132B-N	MFS-14F-132C-N	MFS-20-135A-N
FG-943	MFS-12E-122	MFS-13B-132B-N	MFS-14G-132C-N	MFS-20-192A-N
FH-941	MFS-12-122B-N	MFS-13-132C-N	MFS-14-142B-N	MFS-20-193A-N
FH-946	MFS-12E-122B-N	MFS-13B-132C-N	MFS-14F-142B-N	MFS-22-135A-N
FL-941	MFS-12-122C-N	MFS-13-143A-N	MFS-14G-142B-N	MFS-22H-135A-N
FL-943	MFS-12E-122C-N	MFS-13-144A-N	MFS-14-142C-N	MFS-22-193A-N
MFS-6-151A-N	MFS-12-124A-N	MFS-13-155	MFS-14F-142C-N	MFS-22H-193A-N
MFS-6-153B	MFS-12-132B-N	MFS-14-122	MFS-14G-142C-N	RF-16-145
MFS-6-162B	MFS-12E-132B-N	MFS-14-122B-N	MFS-14-143A-N	RF-21-160
MFS-6-162C	MFS-12-132C-N	MFS-14F-122B-N	MFS-14-144A-N	

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Front Drive Steer Axles – 2/Unl/P&L

MX-10-120	MX-12-120 EVO	MX-16-120	MX-19-140	MX-23-160
MX-10-120 EVO	MX-14-120	MX-18-120	MX-21-140	MX-23-810
MX-12-120	MX-14-120 EVO	MX-17-140	MX-21-160	

Front Drive Steer Axles – 1/Unl/P&L

MX-08-130-FV (FSD-08A)	MX-14-130-FV (FSD-14A)	MX-20-130-FV (FSD-20A)	MX-23-130-SD (SDA-2300)
MX-10-130-FV (FSD-10A)	MX-16-130-FV (FSD-16A)	MX-21-130-FV (FSD-21A)	
MX-12-130-FV (FSD-12A)	MX-18-130-FV (FSD-18A)	MX-21-130-SD (SDA-2100)	
MX-13-130-FV (FSD-13A)	MX-18-130-SD (SDA-1800)	MX-23-130-FV (FSD-23A)	

Rear Drive Axles – 2/Unl/P&L

MS-17-14X	RH-23-160	RS-23-186/380	MS-26-616-SP	RS-30-185/380
MS-19-14X	RS-23-160	RS-24-160	RS-26-185/380	MS-35-380
MS-21-14X	RC-23-161	RC-25-160	RC-26-633	RS-38-380
RS-21-160	RS-23-161	RS-25-160	MS-30-616	MT-58-616
RC-23-160	RS-23-185	MS-26-616	MS-30-616-SP	MT-58-616-SP

Rear Drive Axles – 1/Unl/P&L

RND-14H	RND-16A

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-44-14X/P	MT-52-616	MT-58-616	RT-70-380
MT-40-14T/P	RT-46-169	MT-52-616-SP	MT-58-616-SP	MT-70-380
MT-40-14X/P	RT-58-160	RT-52-185/380 ^{1,2}	RT-58-185/380 ^{1,2}	RZ-188

¹ Axle model designated will vary according to options and variations specified on these axles. Contact Cummins-Meritor Axle Applications Engineering for details.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Rear Drive Tandem/Tridem – 3/Unl/P&L

RT-40-160/P/A ³	RT-46-160/P/A ^{1,3}	RT-46-164/P ^{2,3}	RT-50-160/P/A ³	RZ-166

¹ U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

² Axle model designated will vary according to options and variations specified on these axles. Contact Cummins-Meritor Axle Applications Engineering for details.

³ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Drivelines

RPL	3/Unl/P, 1/Unl/P&L
92N	1/Unl/P&L
MXL	1/Unl/P&L

Transmission – 1/Unl/P&L

FAT 30

Brake Components

Cam P	3/Unl/P
Cam P	2/100/P
Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™ ¹	3/Unl/P&L
Q+ Drum Brake™ ²	2/100/P&L
ASA	3/Unl/P
ASA ²	2/100/P
Hubs/Cast Drums and Other Wheel-End Components ³	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ⁴	2/100/P&L

¹ For Trailer only, 3/300/P against rust jacking when equipped with Platinum Shield III.

² Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

³ Based on stamped wear diameter max.

⁴ Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P. Warranty coverage for pads is 1/100/P.

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3124 (T-2119)	MTC-3312-FV (TC-270)
MTC-3106-FV (TC-137)	MTC-3203	MTC-3220-FC (TC-142)
MTC-3111 (T-2111)	MTC-3205-GV (MTC-25/RTC-25)	MTC-4206-FV (TC-38)
MTC-3112-CV (548C)	MTC-3206-FV (TC-237)	MTC-4208
MTC-3116 (T-2111 through-shaft)	MTC-3206-CS (544)	MTC-4210
MTC-3118-FV (TC-180 and TC-180-23)	MTC-3208-GV (RTC-50)	MTC-4213
MTC-3118-CV (358)	MTC-3209-GV (MTC-60/RTC-60)	
MTC-3120-FV (TC-143)	MTC-3212-CV (315 and 548B)	

Trailer Axles¹

Beam and Brackets ²	5/Unl/P, 1/Unl/L
Wheel End Systems ³	
Standard System ⁴	1/Unl/P&L

¹ For brake components coverage, refer to appropriate product warranties.

² 9000 Series is 3/Unl/P, 1/Unl/L

³ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

⁴ When installed by Cummins-Meritor.

Trailer Air Suspension Systems¹

MTA and MTA-Tec6 Trailing Arm Suspension System	
Major Structural Components ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Air Springs	2/200/P, 1/100/L
Bushings ²	5/500/P, 3/300/L
Shock Absorbers	2/200/P&L
Lift Kit System	1/100/P&L

¹ For axle coverage, refer to appropriate product warranties.

² Raw wood applications 3/Unl/P, 1/Unl/L

Meritor Tire Inflation System (MTIS)

MTIS Components	5/Unl/P, 1/Unl/L

FIRE AND EMERGENCY WARRANTY INFORMATION

Fire and Emergency Vehicles

- Aerial Ladder Truck ■ Ambulance ■ Crash Fire Rescue ■ Rapid Intervention ■ Tanker
- Aerial Platform ■ Command Vehicle ■ Pumper Vehicle (RIV)

Fire and Emergency Typically Is:

- Lower mileage operations (less than 20,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/Unl/P&L

FL-941	MFS-18-135A-N	MFS-20-135A-N	MFS-22H-135A-N
FL-943	MFS-18-193A-N	MFS-20-193A-N	MFS-22-193A-N
MFS-18-133A-N	MFS-20-133A-N	MFS-22-135A-N	MFS-22H-193A-N

Front Drive Steer Axles – 2/Unl/P&L

MX-19-140	MX-21-140	MX-21-160	MX-23-160	MX-23-810

Rear Drive Single Axles – 5/Unl/P&L

RC-23-160	RS-23-185	RC-25-160	RS-35-185 ¹
RS-23-160	RS-23-186	RS-26-185	RS-25-160
RS-23-161	RS-24-160	RS-30-185	

¹ 2/Unl/P&L if PreSet by Cummins-Meritor.

Rear Drive Tandem/Tridem Axles – 5/Unl/P&L

MT-40-14X/P	RT-46-160/P	RT-50-160/P	MT-58-616
RT-40-160/P	RT-46-164/P	MT-52-616	RT-58-185 ¹
MT-44-14X/P	RT-46-169	RT-52-185 ¹	MT-70-380 ²

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Cummins-Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

² 2/Unl/P&L

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3124 (T-2119)	MTC-3220-FC (TC-142)
MTC-3106-FV (TC-137)	MTC-3206-FV (TC-237)	MTC-4206-FV (TC-38)
MTC-3111 (T-2111 through-shaft)	MTC-3206-CS (544)	MTC-4208
MTC-3112-CV (548C)	MTC-3208-GV (RTC-50)	MTC-4210
MTC-3118-FV (TC-180 and TC-180-23)	MTC-3209-GV (MTC-60/RTC-60)	MTC-4213
MTC-3118-CV (358)	MTC-3212-CV (315 and 548B)	
MTC-3120-FV (TC-143)	MTC-3312-FV (TC-270)	

FIRE AND EMERGENCY WARRANTY INFORMATION

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake™ ¹	2/Unl/P&L

¹ Warranty coverage for boots, seals, caps, bushings and pins is 2/200/P.
Warranty coverage for pads is 1/100/P.

Drivelines

RPL	4/400/P, 1/Unl/L
MXL	3/350/P, 1/Unl/L
92N	1/Unl/P

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

TRANSIT BUS WARRANTY INFORMATION

Transit Bus Vehicles

- Airport Shuttle ▪ Commuter Coach ▪ Transit Bus ▪ Trolley
- City Bus ▪ Shuttle Bus

Transit Bus Typically Is:

- Moderate mileage operation (less than 50,000 miles per year)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/300/P&L

FH-946	FH-941 ¹	MFS-12-155	MFS-13-155

¹ Commuter coach only – 2/Unl/P&L

Rear Drive Single Axles – 5/300/P&L

RS-23-160	71163	RC-23-162 ¹	RS-21-160
RC-23-161	79163	RC-23-165 ¹	

¹ Commuter coach only – 2/Unl/P&L

Tag Axles – 2/Unl/P&L

MC-14002	MC-16003	FH-946

Center Non-drive Axles – 5/300/P&L

MC-26000	71063	79063

Gearboxes – 1/Unl/P&L

MGX-450	MGX-451	MGX-538

Brake Components

Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™ ¹	2/100/P&L
ASA ¹	2/100/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake ²	2/100/P&L

Drivelines

RPL	3/Unl/P, 1/Unl/L
92N	1/Unl/P&L
MXL	1/Unl/P&L

¹ Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

² Warranty coverage for boots, seals, caps, bushings and pins is 2/100/P.
Warranty coverage for pads is 1/100/P.

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Industrial and Off-Highway Service Vehicles

- Load-On/Load-Off
- Port Tractor
- Rail Yard Spotter
- Roll-On/Roll-Off
- Stevedoring Tractor
- Trailer Spotter
- Yard Jockey
- All and Rough Terrain Cranes
- Forestry
- Material Handling
- Specialized Heavy Haul
- Excavator
- Compactor
- Fertilizer Spreader
- Snow Blower
- Mining and Specialized Mining
- Rail Car Mover
- Loader
- Tow Tractor
- Pushback Tractor

Industrial and Off-Highway Service Typically Is:

- Low mileage operation
- Low speed vehicle speed restriction
- Vehicles are not typically licensed for highway use
- Six (6) starts/stops per mile (typical)

Coverage under Cummins-Meritor's warranty require that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Contact Cummins-Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 1/Unl/P

FF - 941	FG - 941	FN - 951	MFS-20-192A-N	MFS-22-193A-N
FF - 943	FG - 943	FS-25	MFS-20-193A-N	MFS-22H-193A-N
FF - 961	FL - 941	MFS-20-133A-N	MFS-22-135A-N	MON-ZO FAMILY
FF - 966	FL - 943	MFS-20-135A-N	MFS-22H-135A-N	

Rear Drive Axles – 1/Unl/P

MT-14X ¹	RS-23-380	RS-30-185	RT-145 ¹
RS-23-186	RS-24-160	RS-30-380	RT-160 ¹

¹ 2/Unl/P for LO/LO Terminal Tractor applications

Planetary Axles – 1/Unl/P

MOB	MOE	MOH	MOT	MOZ
MOC	MOF	MOR	MOX	
MOD	MOG	MOS	MOY	

Gearboxes – 1/Unl/P&L

MGX-402	MGX-450	MGX-466	MGX-538
MGX-423	MGX-451	MGX-479	

PTO – 1/Unl/P&L

MPT-170	MPT-185	MPT-500	MPT-1702
MPT-180	MPT-309	MPT-518	

OFF-HIGHWAY SERVICE WARRANTY INFORMATION

Transfer Cases – 1/Unl/P

MTC-2212-CV (306)	MTC-3118-FV (TC-180 and TC-180-23)	MTC-3208-GV (RTC-50)
MTC-3106-FV (TC-137)	MTC-3118-CV (358)	MTC-3209-GV (MTC-60/RTC-60)
MTC-3111 (T-2111 through-shaft)	MTC-3120-FV (TC-143)	MTC-3220-FC (TC-142)
MTC-3112-CV (548C)	MTC-3124 (T-2119)	
MTC-3116 (T-2111)	MTC-3206-FV (TC-237)	

Drivelines – 1/Unl/P

RPL	MXL

Transmission – 1/Unl/P&L

FAT 30

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-End Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P

TERMS AND CONDITIONS

Coverage Exclusions

Product Description

All

The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine Cummins-Meritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.

For axle assemblies supplied by Cummins-Meritor with suspension and interface brackets designed and/or attached by non-Cummins-Meritor parties, Cummins-Meritor warranty coverage does not apply to the brackets, bracket attachment methods and field issues caused by brackets or bracket attachments to any covered component unless specified in a separate OEM agreement.

Front Axles¹

Linehaul — King Pin Bushings 1yr/Unl P&L
All Other Vocations — King Pin Bushings Excluded

¹ King Pin Bushing wear excluded for all vocations.

Rear Axles

Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Eaton.

ASA

Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.

Cam Brake

Brake lining wear and brake shoe “rust-jacking.”

Disc Brake

Pad wear, rotor wear.

Coverage Limitations

Product Description

All

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program. Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your Cummins-Meritor representative for specific details.

Front Axles

Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Cummins-Meritor.

Rear Axles

Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by Cummins-Meritor. If yoke is not installed by Cummins-Meritor, then Cummins-Meritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Cummins-Meritor.

Rear Axles

The Cummins-Meritor breather part number A-2297-C-8765 with A-3196-J-1336 hose must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axles.

Cam Brake

Limited to bracket, brake spider and camshaft structural integrity.

STEELite X30

Wearable life is up to the discard diameter of the drum.

Terms and Conditions

(1) What is Covered by this Commercial Warranty?

Meritor Heavy Vehicle Systems, LLC warrants to the owner (“Owner”) that the components listed in this publication, which have been installed by an Original Equipment Manufacturer (“OEM”) as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM’s vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner or the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see Cummins-Meritor publication Maintenance Manual Number 1 and the applicable Cummins-Meritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

TERMS AND CONDITIONS

(2) Designation of Vocational Use Required

To obtain warranty coverage, each Owner must notify Cummins-Meritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the Cummins-Meritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with Cummins-Meritor directly. Failure to notify Cummins-Meritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify Cummins-Meritor as to the intended vocational use of the vehicle. This notification can be sent directly to Cummins-Meritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under Cummins-Meritor's warranty requires that the application of products be properly approved pursuant to OEM and Cummins-Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines and/or contact Cummins-Meritor regarding specific application approval questions on any product line.

(3) What is the Cost of this Warranty?

There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty?

This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage or vocation from that which was originally approved by Cummins-Meritor), (II) accident, natural disaster, abuse or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the axle and/or driveline capacity) or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals or lube levels). This warranty does not cover any component or part that is not branded by Cummins-Meritor. **For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/Unl/P) will apply.**

(5) Remedy

The exclusive remedy under this warranty shall be the repair or replacement of the defective component at Cummins-Meritor's option. Cummins-Meritor reserves the right to require that all applicable failed materials are available and/or returned to Cummins-Meritor for review and evaluation.

(6) Disclaimer of Warranty

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

(7) Limitation of Remedies

In no event shall Cummins-Meritor be liable for special, incidental, indirect or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes or any other losses or costs resulting from a defective covered component.

(8) To Obtain Service

If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either Cummins-Meritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized Cummins-Meritor service location. The dealer will inspect the vehicle and contact Cummins-Meritor for an evaluation of the claim. When authorized by Cummins-Meritor, the dealer will repair or replace during the term of this warranty any defective Cummins-Meritor component covered by this warranty.

(9) Entire Agreement

This is the entire agreement between Cummins-Meritor and the Owner about warranty and no Cummins-Meritor employee or dealer is authorized to make any additional warranty on behalf of Cummins-Meritor. This agreement allocates the responsibilities for component failure between Cummins-Meritor and the Owner.



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Fire and Rescue Apparatus

Three (3) Year Material and Workmanship Meritor Wabco ABS Brake System Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Meritor Wabco ABS brake system shall be covered by Meritor Wabco as indicated in the attached Meritor Wabco warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor Wabco warranty description shall apply.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

WARRANTY

MODEL YEAR 2021 VEHICLES



Warranty coverage is essential to protecting your investment. But understanding the full details of your coverage can be challenging. This straightforward approach allows you, our valued customer, to better understand how your specific vehicle applications will be covered in your region. Our component warranty coverage is provided according to vocation/usage categories listed below.

- Linehaul covers high mileage operation (over 60,000 miles/year) on well-maintained major highways of concrete or asphalt construction.
- General Service covers moderate mileage operations (less than 60,000 miles/year) on well-maintained public roads (less than 10 percent off-road) typically with less than three (3) stops per mile.
- Heavy Service (Vocational) covers vehicles with more than 10 percent off-road OR moderate to frequent starts/stops typically with more than three (3) stops per mile.
- Off-Highway Service covers lower mileage operations. Vehicles are not typically licensed for highway use.

How to Read Warranty Coverage (Example)

Number of Years	Mileage (in thousands) Unl=Unlimited	P=Parts Only P&L=Parts & Labor
3	300	P

- The standard aftermarket warranty for WABCO products - including WABCO Original parts, WABCO Reman Solutions, ProVia quality aftermarket parts and WABCO retrofit solutions - is one year, parts only from in-service date when purchased from ZF distributor networks or its affiliates and/or subsidiaries.

WABCO

WARRANTY - MODEL YEAR 2021 VEHICLES

LINEHAUL/GENERAL SERVICE WARRANTY INFORMATION

LINEHAUL/GENERAL SERVICE VEHICLES

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler (Truck)
- Cross Country Coach
- Doubles
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Pipe Hauler
- Platform Auto Hauler
- Pumper
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Truck
- Triples
- Tour Bus
- Wrecker

LINEHAUL TYPICALLY IS

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction

GENERAL SERVICE TYPICALLY IS

- Moderate mileage operations (less than 60,000 miles/year)
- Well maintained public roads (less than 10% off-road)
- Less than three (3) stops per mile

WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Trailer Lift Axle Control Valve	
Trailer Control Line Filter ³	
Air Compressors (ALL) ²	2/200/P&L
Air Dryers (ALL)	3/300/P&L
Aerodynamics	
OptiFlow® TrailerSkirt	2/UnU/P
OptiFlow® Trailer Tail and AutoTail	2/UnI/P
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Electronic Braking System (EBS)	
Electronic Stability Control (ESC)	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Trailer ABS (Anti-Lock Braking System) ³	
Driveline Suspension Control	
Clutch Controls	2/200/P&L
Leveling Valves	1/100/P&L
OptiRide® Automated Manual Transmission (AMT)	
OptiRide® Electronically Controlled Air Suspension (ECAS)	3/300/P&L

WABCO Components ¹ (cont.)	
Safety	
OnGuardACTIVE®	3/300/P&L
OnLane®	
OnLaneALERT®	
OnSide®	
Trailer SafeStart™	
Trailer TailGUARD™	
Telematics	
TrailerCAST™ Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit™ Slack Adjuster	6/600/P
MAXXUS™ Truck Air Disc Brake	5/500/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 17 and 19 Air Disc Brake	2/UnI/P and 1/UnI/L
Pan 22 Air Disc Brake	5/500/P and 1/L
TRISTOP™ D Actuator w/ IBV or IRB	6/600/P
TRISTOP™ D Actuator	3/300/P
UNISTOP™ Actuator	2/200/P
Trailer MAXX22T™ Air Disc Brake	5/500/P and 1/L

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

HEAVY SERVICE (VOCATIONAL) WARRANTY INFORMATION

HEAVY SERVICE VEHICLES

- Airport Rescue Fire (ARF)
- Airport Shuttle
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer
- Combination
- Cementing Vehicle
- City Bus
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Crash Fire Rescue (CFR)
- Mixer
- Demolition
- Drill Rig
- Dump
- Emergency Service
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Newspaper Delivery
- Package Delivery
- Pick-up and Delivery
- Rapid Intervention Vehicle (RIV)
- Rear Loader
- Recycling Truck
- Residential Pick-Up/Waste
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Transit Bus
- Trolley
- Utility Truck
- Winch Truck

HEAVY SERVICE TYPICALLY IS

- On/Off road vocations (10% or more off-road) OR
- Moderate to frequent starts/stops typically more than three (3) stops per mile



WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Air Compressors (ALL)2	
Air Dryers (ALL)	
Trailer Control Line Filter ³	
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	2/200/P&L
Electronic Braking System (EBS)	3/300/P&L
Electronic Stability Control (ESC)	
Trailer ABS Valve ³	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Driveline Suspension Control	
OptiRide® Electronically Controlled Air Suspension (ECAS)	2/200/P&L
Leveling Valves	1/100/P&L
Clutch Controls	2/200/P&L
Safety	
OnGuardACTIVE®	3/300/P&L
OnLane®	
OnLaneALERT®	
OnSide®	
Trailer SafeStart™	
Trailer TailGUARD™	
Telematics	
TrailerCAST™ Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
MAXXUS™ Air Disc Brake	1/Unl/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
Trailer MAXX22T™	1/Unl/P&L
TRISTOP™ D Actuator w/ IBV	3/Unl/P
TRISTOP™ D Actuator	2/200/P
UNISTOP™ Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

WARRANTY - MODEL YEAR 2021 VEHICLES

INDUSTRIAL/OFF-HIGHWAY SERVICE WARRANTY INFORMATION

INDUSTRIAL AND OFF-HIGHWAY SERVICE TYPICALLY IS

- Low mileage operation³
- Vehicles are not typically licensed for highway use

Market	Common Application Types
Agriculture	Fertilizer Spreader, Tractor, Heavy Duty Ag Trailers, Harvester, Sprayer, Skid Loader, Silage Bagger, Slurry Wagons, Grain Cart
Airport Support	Pushback Tractor, Towing Tugs, Aircraft Tow Tractor, Refueling Trucks, Food Service Trucks, Baggage Tractors, De-Icing Equipment, Runway Clearing Equipment
Construction	All-Terrain Crane, Rough Terrain Crane, Excavator, Compactor, Wheel Loader, Road Roller, Motor Grader, Articulated Dump Truck, Rubber Tire Road Roller, Backhoe Loaders, Haul Trucks, Scraper Rough Terrain Forklifts, Trenchers, Drills
Forestry	Logging Forwarder, Kidder, Loaders, Yard Forklifts, Harvesters Fellers
Material Handling	Port Tractor, Rail Yard Spotter, Stevedoring Tractor, Trailer Spotter, Yard Jockey, Scissor Lift, Straddle Carrier, Manlift, Forklift, Boom Lift Telehandlers, Aerial Work Platforms
Mining	Specialized Mining, Excavator, Haul Truck, Underground Loader, Service Trucks, Wheel Loaders, Scrapers, Load Haul Dumps, Personnel Transports, Bolters, Scalpers
Municipal	Street Sweeper, Utility Tractor, Utility Trucks, Tree Trimmers, Dump Trucks, Tow Trucks, Flat Bed Trucks, Winch Applications
Oil & Gas	Fracturing Trailer, Injector Heads, Top Drives, Jack/Lift Boats, Wireline Trucks, Load-On / Load-Off
Rail	Railcar Mover, Track Layers, Grinders, Platform Crane, Locomotive Railcars, Ballast Equipment, Winch Applications



WABCO Components ¹	
Air Management	
Air Brake Valves	2/Unl/P
Air Compressors (ALL)2	
Air Dryers (ALL)	
Brake Actuation	
Air/Hydraulic Actuators	2/Unl/P
Master Cylinders	
Remote Actuators	
Slave and Wheel Cylinders	
Two Fluid Actuators	
Brake Locks	
Brake Locks (ALL)	2/Unl/P
Electric Brake Locks	
Lever Locks	
Braking Systems	
ABS (Anti-Lock Braking System) Air	1/100/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Driveline Suspension Control	
Clutch Controls	1/100/P&L
Leveling Valves	
Electrohydraulics & Controls	
Electronic Pedals	2/Unl/P
Electrohydraulic Brake Valves (EBV)	
Pressure Switches	
Hydraulic Braking Solutions	
Accumulator Charging Valves	2/Unl/P
Hydraulic Throttle Controls and Switches	
Modulating Brake Valves	
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
Caliper Disc Brakes	2/Unl/P
MAXXUSTM Air Disc Brake	1/Unl/P&L
Multiple Disc Brakes	2/Unl/P
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
TRISTOPTM D Actuator w/ IBV	3/Unl/P
TRISTOPTM D Actuator	2/200/P
UNISTOPTM Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ Equivalent hours of service limit: 2,000 hours for all components.

TERMS AND CONDITIONS

COVERAGE EXCLUSIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

This Warranty shall not apply to the following, but not limited to: (1) damage to the product or its component parts caused by incorrect use, installation, maintenance or repair, including without limitation (a) improper fit of mating components or brackets, damaged threads, cut, broken, chafed, pinched or otherwise damaged wiring (sensors, harnesses and connectors), (b) sensors damaged during removal when seized in block, or associated with sensor adjustments/ alignments, and (c) damage resulting from the use or installation of non-genuine WABCO components or materials; (2) damage to the product, its component parts, or diminished product or component part performance due to incorrect operation, deviation from approved conditions or misapplication; (3) any unauthorized disassembly of the product or its component parts including without limitation (a) obliterated, defaced or missing WABCO or WABCO name plate, serial numbers or label identifying the device as a ZF product or WABCO component, (b) changes to sealed adjusting screws, and (c) opening or attempted repair of non-serviceable components; (4) malfunction of the component due to internal contamination of the vehicle system including without limitation (a) water and other contamination damage that is due to the use of a non-genuine air dryer cartridge or (b) valve failures due to contamination in air system, (5) complaints associated with noise, (6) damage resulting from corrosion (including oxidation of electrical devices and connections).

AIR DRYERS

Mounting brackets (see vehicle OEM). Desiccant cartridge housing only.

AIR SYSTEM COMPONENTS

Normal wear items; Gladhand seals, dash valve knobs, valve actuation handles, treadles, pedals.

ABS, ELECTRONIC STABILITY CONTROL (ESC), ROLL STABILITY CONTROL (RSC), OPTIRIDE®, ONGUARD® AND ONLANE®, COLLECTIVELY “ELECTRONICS”

Failure of electronic components due to overvoltage condition, improper grounding, electrostatic discharge (ESD), improper shielding, electromagnetic interference (EMI), or other wiring or installation issues. Malfunctions and failure codes caused by other electronic subsystem failures (data bus, engine, transmission, dashboard, etc.)

HYDRAULIC COMPONENTS

For certain components, brake fluid DOT3 or DOT4 is used as the operating medium. Use of any other fluid will void all warranties associated with that component. For hydraulic braking applications the brake fluid is considered a maintenance item. Maintenance intervals are listed in TB-1367.

COVERAGE LIMITATIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program.

Products purchased on an incomplete vehicle (glider) are limited to one year, 1/Unl/P.

For vehicles that operate full- or part-time outside of the United States and Canada, a 1-Year/Unlimited Miles parts only (1/Unl/P) will apply.

TOOLBOX PLUS™ DIAGNOSTIC SOFTWARE

Proper diagnostics of WABCO Electronics may require the latest version of TOOLBOX PLUS™. Additional labor due to use of an outdated version of TOOLBOX™ software and/or the time to purchase or install the latest version of TOOLBOX PLUS™ are not covered under product warranty.

WARRANTY - MODEL YEAR 2021 VEHICLES

TERMS AND CONDITIONS

(1) What is Covered by this Commercial Warranty?

ZF CV Systems North America LLC and its North American subsidiaries and affiliates (ZF) warrant to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment will be free from defects in material and workmanship. This warranty coverage begins from the original in-service date to the limits provided and runs concurrently with any warranties provided by OEMs and/or any distribution agreements and/or any service contracts that cover the components listed in this publication, if any. If the components listed in this publication are covered by an OEM warranty and/or service contract, then the OEM's warranty and/or service contract shall supersede ZF's warranty and Owner shall comply with all OEM's warranty and/or service contract requirements for claims under such OEM's warranty and/or service contract until those agreements expire. Once those agreements expire and provided the ZF warranty has not expired under the terms stated above, the ZF warranty will be in effect until its expiration date.

Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed previously in this publication. Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Additional diagnostic time due to use of an outdated version of TOOLBOX™, time to purchase or install latest version of TOOLBOX™ are the responsibility of the authorized ZF distributor networks and are not covered under product warranty. Components installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

(2) Designation of Vocational Use Required. To obtain warranty coverage, each Owner must notify ZF through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the WABCO components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with ZF directly. Failure to notify ZF of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date. A second Owner and each subsequent Owner must also notify ZF as to the intended vocational use of the vehicle. This notification can be sent directly to ZF or through

the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use. Coverage under ZF's warranty requires that the application of products be properly approved pursuant to OEM and ZF, approvals.

(3) What is the Cost of this Warranty? There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty? In addition to the items listed on "Coverage Exclusions," this warranty does not cover normal wear and tear, or service items; nor does it cover a component that fails, malfunctions or is damaged as a result of (a) improper handling, storage, installation, adjustment, repair or modification including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by ZF, (b) accident, fire or other casualty, natural disaster, road debris, negligence, misuse, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the brake system capacity), or (c) improper or insufficient maintenance (including deviation from maintenance intervals, approved lubricants, or lube levels). This warranty does not cover any component or part that is not sold by ZF.

(5) To obtain service. If the owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either ZF or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM dealer or ZF distributor networks' servicer. The dealer or ZF authorized servicer will inspect the vehicle and contact ZF for an evaluation of the claim. When authorized by ZF, the dealer or ZF authorized servicer will repair or replace during the term of this warranty any defective WABCO component covered by this warranty.

(6) Disclaimer of Warranty and Limitation of remedies. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE LIMITED WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR WARRANTY FOR HIDDEN OR LATENT DEFECTS, AND IN NO EVENT WILL ZF OR ANY OF ITS AFFILIATES BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, PROGRESSIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND.

- (7) Legal action. Any legal action or claim arising from or related to this Warranty, in contract or otherwise, must be commenced within one year from the accrual of that cause of action, or be barred forever. Any dispute arising in connection with this agreement shall be governed by and construed according to the laws of the State of Michigan and be brought, heard and determined exclusively in either the Circuit Court for the County of Oakland, State of Michigan or the United States District Court for the Eastern District of Michigan. The parties stipulate that the referenced venues are convenient.
- (8) Remedy. The exclusive remedy under this warranty shall be the repair or replacement of the defective component at ZF's option. ZF reserves the right to require that all applicable covered components are available and/or returned to ZF for review and evaluation. THE MAXIMUM LIABILITY, IF ANY, OF ZF FOR ALL DAMAGES, INCLUDING WITHOUT LIMITATION CONTRACT DAMAGES, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORT, IS LIMITED TO AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE PRODUCT and where indicated in the product and application warranty information above, the inclusion of labor is limited to the standard repair time. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE LIMITATION OF DAMAGES PROVISION SET FORTH IN THIS PARAGRAPH SURVIVES BETWEEN THE ORIGINAL END USER AND ZF EVEN IF THE EXCLUSIVE REMEDY SET FORTH ABOVE IS DEEMED TO FAIL OF ITS ESSENTIAL PURPOSE. ZF may change the design or make improvements to its Products without incurring any warranty obligation for previously manufactured Product .
- (9) Entire Agreement. This is the entire agreement between ZF and the Owner about warranty and no, ZF employee, or dealer is authorized to make any additional warranty on behalf of ZF unless in writing and signed by an authorized representative of ZF.





**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

About ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO). For more information, visit: www.wabco-na.com



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity

Custom Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Pierce Custom Cab shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the cab tubular support and mounting structures and other structural components of the cab of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the cab painted by Pierce shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions:	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any: Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25% Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10% Corrosion Perforation 0-120 months 100% This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty. Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship

Command Zone Electronics

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Command Zone control modules shall be free from failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty applies to all of the control modules for the Command Zone system, including the full color graphic displays. Related wire harnesses, cables and connectors are not covered under this limited warranty and are instead covered under the Pierce One Year Basic Apparatus Limited Warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Material and Workmanship

Pierce 12V LED Strip Light

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	This limited warranty covers repairs to correct any defect related to materials or workmanship of the Pierce 12V LED strip lights installed on the apparatus occurring during the warranty period.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty does not apply to related wire harnesses, cables, and connectors, which are covered by the Pierce one (1) year basic apparatus limited warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

NEW PRODUCT WARRANTY



**PARTICIPATING OEM SALES
DISTRIBUTOR SALES**

LIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS USED IN EMERGENCY VEHICLE APPLICATIONS

Allison Transmission will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in an Emergency Vehicle in accordance with the following terms, conditions, and limitations.

WHAT IS COVERED

- **WARRANTY APPLIES** — This warranty is for new Allison transmission models listed below installed in an Emergency Vehicle and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- **REPAIRS COVERED** — The warranty covers repairs or replacement, at Allison Transmission's option, to correct any transmission malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- **TOWING** — Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- **PAYMENT TERMS** — Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section "APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE."
- **OBTAINING REPAIRS** — To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or Dealer to perform necessary repairs.
- **TRANSMISSION REMOVAL AND REINSTALLATION** — Labor costs for the removal and re-installation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- **WARRANTY PERIOD** — The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail purchaser, with the following exception:

Demonstration Service - A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE

APPLICABLE MODELS	WARRANTY LIMITATIONS (Whichever occurs first)		ADJUSTMENT CHARGE TO BE PAID BY THE CUSTOMER	
	Months	Transmission Miles Or Kilometers	Parts	Labor
MT, MD 3000, 3200, 3500, 3700	0-24	No Limit	No Charge	No Charge
HT with Hydraulic Controls	0-24	No Limit	No Charge	No Charge
AT, 1000 Series™, 2000 Series™, 2400 Series™	0-36	No Limit	No Charge	No Charge
HT with Electronic Controls	0-60	No Limit	No Charge	No Charge
HD 1000 EVS, 2100 EVS, 2200 EVS 2350 EVS, 2500 EVS, 2550 EVS, 3000 EVS, 3500 EVS, 4000, 4000 EVS, 4500, 4500 EVS, 4700, 4700 EVS, 4800, 4800 EVS	0-60	No Limit	No Charge	No Charge

WHAT IS NOT COVERED

- **DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION** — Defects and damage caused as the result of any of the following are not covered:
 - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
 - Misuse of the vehicle;
 - Installation into unapproved applications and installations;
 - Alterations or modification of the transmission or the vehicle, and
 - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
 - Anything other than defects in Allison Transmission material or workmanship

NOTE: This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
 - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
 - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

** Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.
P.O. Box 894
Indianapolis, IN 46206-0894
Attention: Warranty Administration PF-9



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship - Transmission Oil Cooler Three (3) Year Collateral Damage Coverage

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The transmission cooler shall be free from component or structural failures caused by defects in material and/or workmanship. Collateral damage up to \$10,000 per occurrence is available for the first three (3) years.
Warranty Begins:	The date of delivery to the first retail purchaser.
Warranty Period Ends After:	Five (5) Years on Oil Cooler and three (3) years on collateral damage coverage
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty. This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner. Towing is covered to the nearest distributor or authorized dealer only when necessary to prevent further damage to your transmission. Labor costs for the removal and reinstallation of goods may be covered when necessary to make repairs. Please contact your OEM for authorization. Replacement of cooler during the warranty period is limited to 100% of reasonable labor costs up to a maximum of \$700 to remove, replace, or repair the oil cooler.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

UNITED PLASTIC FABRICATING
Limited Lifetime Warranty
Effective as of January 1, 2024

1. General. United Plastic Fabricating, Inc. (the "Company") warrants to the owner (the "Owner") that the products set forth on Exhibit A, attached hereto (the "Product") will be reasonably free from defects in materials and workmanship for the service life of the Product. This Limited Lifetime Warranty (the "Warranty") only applies to Company Products that are: (a) owned by a federal, state, county or local government, a volunteer fire department or dedicated commercial fire service operation; (b) continuously and actively used in emergency response and/or fire suppression vehicles; and (c) used, stored, handled and installed in the manner recommended by Company.

2. Warranty Obligations. Subject to the exclusions and limitations set forth in this Warranty, Company will, at its option, repair or offer a one (1) time replacement of the Product without charge, if the Product fails or does not perform as warranted during the warranty period due to a manufacturing defect or a defect in materials. Repair or replacement shall include reasonable labor charges necessary to repair or replace the defective Product but shall not include: (a) the costs associated with removal of the Product from the vehicle or the cost to otherwise provide access to the Product in the vehicle; (b) the cost associated with any required upgrades the vehicle (including, without limitation, upgrades required to strengthen the vehicle's frame); or (c) travel costs, except as provided by Section 3. Company's obligation as to repair or replacement shall further be limited to repair or replacement with the models of the Product that are available at the time of the repair or replacement, and shall be limited to the repair or replacement of only the specific Product that fails due to a manufacturing defect. In the event a Product becomes unavailable or cannot be supplied by Company for any reason a substitute Product of equal quality and functionality of the subject Product may be substituted by Company. Any repaired Product shall remain subject to this Warranty and any repair shall not extend the warranty period in any manner or start a new warranty period. Any Product that is replaced by Company shall be excluded from this Warranty. In no

event shall Company be required to expend, in any one (1) or series of expenditures, more than the purchase price of the Product to repair or replace a defective Product. Amounts expended by Company shall include all amounts paid by Company in connection the repair or replacement, including without limitation, amounts paid to third-parties, material costs, incidental costs and travel costs (except as provided by Section 3).

3. Travel; Expenses; Product Access. Company shall be responsible for any travel costs incurred to repair or replace the Product provided that: (a) the Product is located in the continental United States or Canada; and (ii) the warranty claim is initiated prior to the date on which NFPA 1912 Standards (Annex D) recommends replacement of the Product. All other travel costs incurred by Company or its agents to repair or replace the Product shall be the responsibility of the party asserting the warranty claim. Company reserves the right to require, as a condition to undertaking any repair or replacement: (y) pre-payment of its anticipated travel costs; and (z) satisfactory arraignments concerning scheduling and access to the Product. If the subject Product is located in an area of the world considered, in Company's sole discretion, to be unsafe Company may refuse to process the claim or require relocation of the Product, at no expense to Company, to an area where such repairs can be performed safely by Company or its agents. In the event Company or Company's agents are dispatched to repair or replace a defective Product and the vehicle in which the Product has been installed is not available or the Product is not readily accessible, for any reason, Company or Company's agents, as the case may be, shall be immediately reimbursed for all expenses incurred therewith.

4. Exclusions: Products must be stored, handled, installed, used and maintained in accordance with instructions provided by Company, and this Warranty is conditioned upon compliance with all such instructions. This Warranty does not cover defects caused by: (a) improper installation; (b) modification, alteration or repair of the Product by any unauthorized third-party; (c) misuse, including, without limitation, improper

storage or handling of the Product (e.g. excessive exposure to UV rays); chemical abuse (e.g. harsh cleansers and solvents), thermal abuse or shock (e.g. excessive heat or cold); (d) damage not resulting from manufacturing defects that occur while the Product is not in Company's possession (e.g. accidents); or (e) unreasonable or unintended use of the Product. Copies of the Company's operation and maintenance instructions are available on the Company's website <https://www.unitedplastic.com/upf-documents/>

5. Disclaimer. THE WARRANTIES SET FORTH HEREIN ARE THE ONLY WARRANTIES MADE BY COMPANY IN CONNECTION WITH THE PRODUCT. COMPANY CAN NOT AND DOES NOT MAKE ANY IMPLIED OR EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, AND DISCLAIMS ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PRODUCTS SOLD BY COMPANY ARE SOLD ONLY TO THE SPECIFICATIONS SPECIFICALLY SET FORTH BY COMPANY IN WRITING. OTHER THAN THE LIMITED WARRANTY SET FORTH HEREIN, COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE REPAIR OR REPLACEMENT OF NON-CONFORMING PRODUCT. BUYER ASSUMES ALL RISK WHATSOEVER AS TO THE RESULT OF THE USE OF THE PRODUCT PURCHASED, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCTS OR SUBSTANCES.

6. Limitation of Liability. NO CLAIM BY OWNER OF ANY KIND, INCLUDING CLAIMS FOR INDEMNIFICATION, SHALL BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL COMPANY BE LIABLE TO OWNER IN TORT, CONTRACT OR OTHERWISE, FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, ANY OBLIGATION OF COMPANY TO REPAIR OR REPLACE ANY CHASSIS, SUB-FRAMES, BODIES, VALVES, DUMPS, HOSES, PRESSURE VACUUM VENTS OR OTHER SIMILAR COMPONENTS), RELIANCE, STATUTORY, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF USE, LOSS OF TIME,

LOSS OF REVENUES, INCONVENIENCE, LOSS BUSINESS OPPORTUNITIES, OR DAMAGE TO GOOD WILL OR REPUTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR SUCH DAMAGES COULD HAVE BEEN REASONABLY FORESEEN, IN CONNECTION WITH, ARISING OUT OF, OR AS A RESULT OF, THE SALE, DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS SOLD HEREUNDER, OR FOR ANY LIABILITY OF BUYER TO ANY THIRD PARTY WITH RESPECT THERETO.

7. Reformation. If any term or provision of this Warranty shall be held or deemed to be, or shall in fact be, invalid, inoperative, illegal or unenforceable as applied in any case or in any jurisdiction or jurisdictions because of the conflicting nature of any provision with any constitution or statute or rule of public policy or for any other reason, then: (a) such circumstance shall not have the effect of rendering the provision or provisions in question invalid, inoperative, illegal or unenforceable in any other jurisdiction or in any other case or circumstance or of rendering any other provision or provisions herein contained invalid, inoperative, illegal or unenforceable to the extent that such other provisions are not themselves actually in conflict with such constitution, statute or rule of public policy; and (b) any such invalid, inoperative, illegal or unenforceable provision shall be reformed and construed in any such jurisdiction or case so that such provision would be valid, operative and enforceable to the maximum extent permitted in such jurisdiction or case.

8. Headings. The headings contained herein are for convenience and reference only, and shall be given no effect in the interpretation of any term or condition of this Warranty.

9. Submitting a Warranty Claim. To request coverage under this Warranty you must submit a claim through Company's website:
<https://www.unitedplastic.com/contact/product-support/>

10. Transferability. This Warranty is transferable and entitles the transferee to coverage for the remainder of the original warranty period.

11. Modification. This Warranty may be modified (a) as set forth on a binding sales order for the Product or (b) by a written agreement between Company and the Owner.

Exhibit A

Covered Product List

- Poly-Tanks®
- PolySide® Wetside Tanks
- Defender™ Skid Tanks
- Ellip-T™ Elliptical Tanks
- ARFF Tanks



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity Apparatus Body Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The apparatus body shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the body tubular support and mounting structures and other structural components of the body of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



AMDOR Inc. TERMS OF BUSINESS AND GENERAL INFORMATION

Warranty:

All AMDOR Inc. roll-up door products are warranted for a period of 10 years from the date of delivery (with the exception of wet paint adhesion - please see below). AMDOR Inc. liability covers the replacement or repair of any component that fails due to defects in material and / or workmanship during the coverage period. We accept no liability for claims made for damages to any part (or parts) of a vehicle and / or machine (of any type) or injury claims by a person or persons assumed or alleged to have been brought about by the use or misuse of any product supplied by AMDOR Inc. Warranty coverage does not extend to door attachments including (but not limited to) decals, emblems, stripes and adhesives.

In order to initiate the claims process please contact your authorized representative of AMDOR Inc. Warranty claims must be accompanied by a written description providing full and reasonable details as to the nature of the defect. Upon receipt of your claim arrangements will be made to inspect the defective product (if necessary). Justified warranty claims will be repaired, exchanged, or credited to the customer's account at AMDOR Inc.'s discretion. All warranty claims must be approved in writing by the Customer Service Manager for AMDOR Inc. There are no exceptions to this clause.

Limited warranty coverage includes the labor associated with the disassembly and assembly of products deemed to be defective by AMDOR Inc. Labor allowances are based on a set time schedule as determined by AMDOR Inc. The maximum allowable hourly labor rate is \$ 50. All warranty labor claims must be approved in writing by an authorized representative of AMDOR Inc. prior to commencement of work. Allowances for removal and installation:

Curtain replacement:	3/4 hour
Balancer replacement:	1 hour
Door ajar switch	3/4 hour
Bottom Panel Assembly:	1/2 hour
Slat replacement:	3/4 hour
Door removal and replacement	1 1/2 hours

Items authorized for return must be accompanied by a Return Goods Authorization (RGA) number. We will accept collect shipments of items deemed to be defective provided that they are returned via the most economical carrier. Should items be

returned by means other than the most economical carrier the difference will be charged back to the sender.

AMDOR Inc. reserves the right to reject any claim when a product has been opened, interfered with or modified. Claims may also be rejected when damage to the product (or any sub-assembly) has been brought about by accident, misuse, abuse, vandalism, incorrect installation, temperature extremes, chemical exposure or any factor other than regular operating conditions.

Limited Wet Paint Match Adhesion Warranty

AMDOR Inc. warrants wet paint finishes applied by AMDOR utilizing our approved factory paint specification. All wet paint match colors must be approved in writing by an authorized OEM representative. AMDOR Inc. will provide a color spray out for this purpose. The time required for shipping and consideration of initial color spray outs will be considered over and above stated lead times. Warranty coverage will extend for a period of not less than 5 years from the date of delivery as determined by AMDOR Inc.'s Packing Slip. AMDOR reserves the right to determine whether individual units will be replaced and / or repaired by an AMDOR approved vendor. An allowance will be made for labor associated with the disassembly and assembly of individual units at the prescribed hourly rate of \$ 50 per hour. Compensation for labor will not exceed the maximum time allowance permitted for door removal and replacement. Written approval including specified allowance for time must be obtained from AMDOR prior to initiating work. Warranty coverage will extend to the following visible paint system defects:

- 1./ Loss of mechanical adhesion as evidenced by peeling, cracking or blistering which exposes the substrate material.
- 2./ Corrosion of the substrate due to paint system failure.
- 3./ Fading which results in a substantial departure from the primary AMDOR approved body color.

Wet paint adhesion limited warranty coverage will be excluded when damages to the system are determined by AMDOR Inc. to be a result of the following:

- 1./ Damage caused through the use of attachments including (but not limited to) decals, labels, adhesives, non factory approved coatings.
- 2./ Loss of gloss, discoloration or damage due to improper maintenance (including but not limited to) mechanical wash systems, pressure washers, steam cleaners, non approved wash or polishing agents.
- 3./ Abuse, acts of nature, excessive heat / cold, chemical exposure, vandalism and / or accidents.
- 4./ Scratches, chips, abrasions, or dents from any source.

This document supercedes all previous written and / or verbal warranties provided by AMDOR Inc. and / or it's affiliates.

Waterous Seven-Year Limited Warranty

WATEROUS warrants, to the original Buyer only, that products manufactured by WATEROUS will be free from defects in material and workmanship under normal use and service for a period of seven (7) years from the date the product is first placed in service, or seven and one-half (7-1/2) years from the date of shipment by WATEROUS, whichever period shall be the first to expire; provided the Buyer notifies WATEROUS, in writing, of the defect in said product within the warranty period, and said product is found by WATEROUS to be nonconforming with the aforesaid warranty. When required in writing by WATEROUS, defective products must be promptly returned by Buyer to WATEROUS at WATEROUS' plant at South St. Paul, Minnesota, or at such other place as may be specified by WATEROUS, with transportation and other charges prepaid. A Returned Material Authorization (RMA) is required for all products and parts and may be requested by phone, fax, email, or mail. The aforesaid warranty excludes any responsibility or liability of WATEROUS for:

- (a) damages or defects due to accident, abuse, misuse, abnormal operating conditions, negligence, accidental causes, use in non-firefighting applications, or improper maintenance, or attributable to written specifications or instructions furnished by Buyer;
- (b) defects in products manufactured by others and furnished by WATEROUS hereunder, it being understood and agreed by the parties that the only warranty provided for such products shall be the warranty provided by the manufacturer thereof which, if assignable, WATEROUS will assign to Buyer, if requested by Buyer;
- (c) any product or part, altered, modified, serviced or repaired other than by WATEROUS, without its prior written consent;
- (d) the cost of dismantling, removing, transporting, storing, or insuring the defective product or part and the cost of reinstallation; and
- (e) normal wear items (packing, strainers, filters, light bulbs, anodes, intake screens, mechanical seals, etc.).

ALL OTHER WARRANTIES ARE EXCLUDED, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER CAUSE OF ACTION, SHALL WATEROUS BE LIABLE FOR ANY PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR PERSONAL INJURY OR PROPERTY DAMAGES.

The exclusive remedy of Buyer and the sole liability of WATEROUS, whether based on contract, warranty, tort or any other basis of recovery whatsoever, is expressly limited at the election of WATEROUS to:

- (a) the replacement at the agreed point of delivery of any product or part, which upon inspection by WATEROUS or its duly authorized representative, is found not to conform to the limited warranty set forth above, or
- (b) the repair of such product or part, or
- (c) the refund or crediting to Buyer of the net sales price of the defective product or part.

BUYER'S REMEDIES CONTAINED HEREIN ARE EXCLUSIVE OF ANY OTHER REMEDY OTHERWISE AVAILABLE TO BUYER.

Waterous Company
125 Hardman Avenue South
South St. Paul, MN 55075 USA
www.waterousco.com

WATEROUS



Fire and Rescue Apparatus

Ten (10) Year Material and Workmanship Stainless Steel Piping Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Stainless steel piping shall be free from structural failures caused by defects in material and workmanship, or perforation caused by corrosion.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	Pierce's obligation under this warranty is limited to repairing or replacing without charge, as Pierce may elect, the stainless steel piping or components which Pierce determines to have failed due to defective material and workmanship, or perforation caused by corrosion. This warranty does not cover the use of fluoroprotein (FP) type foam. The sodium chloride within FP foam can cause long-term damage to system components if not thoroughly flushed immediately after use.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Foam System & Five (5) Year Material and Workmanship Control Head Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Limited warranty 1 year parts and labor for the foam system and 5 years parts and labor for the control head.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	One (1) Year & Five (5) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty. This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion Custom Body Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any: Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25% Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10% Corrosion Perforation 0-120 months 100% This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty. Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Graphics Fading and Deterioration

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each graphic lamination shall be free from defects in material workmanship, fading, and deterioration.
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	One (1) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual).

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



GOLDEN STATE
FIRE APPARATUS

goldenstatefire.com

5 DEALER SUPPLIED PRODUCTS AND /OR SERVICES

Exhibit "D"

PROPOSAL INTRODUCTION

With over three decades of industry expertise, Golden State Fire Apparatus, Inc. (GSFA) proudly stands as the premier authorized dealership for top-tier fire apparatus in Central and Northern California. Our steadfast commitment to detail and customer satisfaction has earned us a trusted reputation among first responders.

We sincerely appreciate the opportunity to present this comprehensive proposal for TWO (2) PIERCE MANUFACTURING, INC. ENFORCER 1750 GPM TYPE 1 FIRE ENGINES. Your consideration of this proposal is greatly valued, and we are eager for the opportunity to support your department with the highest level of excellence and professionalism.

DEALER-SUPPLIED PRODUCTS AND SERVICES

Golden State Fire Apparatus Inc. (GSFA) will furnish the following items and/or services before final delivery so that all necessary components and support are in place, contributing to an efficient final delivery process. Please refer to the detailed list below for a comprehensive overview of the products and/or services included:

AUTHORIZED MANUFACTURER

In accordance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "every manufacturer of a vehicle subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." The manufacturer, as of the proposal submission, holds a valid license in compliance with this requirement and is prepared to furnish a copy upon request. This adherence to regulatory standards ensures that the manufacturer maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED DEALERSHIP

In compliance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "a dealer in vehicles of a type subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." Golden State Fire Apparatus, Inc. possesses a valid license at the time of the bid, as detailed above, and can promptly provide a copy upon request. This adherence to regulatory standards ensures that the dealership maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED SALES REPRESENTATIVE

In accordance with the State of California Vehicle Code, specifically Section 11800, it is expressly prohibited for any individual to function as a vehicle salesperson without obtaining a license issued by the Department of Motor Vehicles (DMV). The representative, at the time of

proposal, holds a valid vehicle salesperson's license and is ready to furnish a copy upon request. This adherence to regulatory standards ensures that the sales representative maintains a current and official status, promoting transparency and compliance with legal requirements throughout the bidding process and subsequent phases.

VEHICLE REGISTRATION

In adherence to the State of California Vehicle Code Section 11739, it is mandated that the "dealer of a new motor vehicle sale is responsible for applying for the title, securing vehicle registration, and obtaining license plates for the Customer" through the Department of Motor Vehicles (DMV). Being a factory-authorized dealer of the vehicle being sold, Golden State Fire Apparatus, Inc. is duly authorized to register the vehicle with the State of California as a new vehicle manufacturer.

GSFA is committed to facilitating an excellent vehicle ownership experience for the customer. As such, we will manage all necessary applications and complete all transfer papers, including the application for California Exempt "E" license plates. This approach ensures compliance with regulatory requirements and a hassle-free registration process for our valued customers.

WEEKLY PROGRESS PHOTOGRAPHS

GSFA is committed to ensuring transparency and comprehensive reporting throughout the construction process of the apparatus. To achieve this, GSFA will provide weekly photographs capturing various stages of the apparatus or major components under construction.

Commencing from the initiation of the manufacturing process, the photographic documentation will extend throughout the entire production phase by the manufacturer. These weekly reports will offer a visual representation of the ongoing progress of the apparatus, highlighting key milestones and showcasing unique features and aspects as construction unfolds.

Our focus is to provide customers with a clear and detailed insight into the evolution of the apparatus, fostering a deeper understanding of the craftsmanship and distinct elements incorporated during the construction process. This commitment to regular, visual updates aims to enhance communication and transparency regarding the progress of the apparatus.

CONTINGENCY RESERVE FUND

A Contingency Reserve Fund amounting to \$50,000 per unit is incorporated into the quotation to address potential change orders, unforeseen items, or necessary work that may arise during the contract. The utilization of this reserve fund is at the sole discretion of the Customer. It is essential to note that this reserve fund is not an estimate for the aforementioned contingencies, and the actual costs associated with change orders, unforeseen items, or required work may surpass the reserved amount depending on their nature.

Any unused portion of the Contingency Reserve Fund will be credited back on the final invoice. Alternatively, if not credited, the remaining funds will be promptly returned to the Customer in the form of a check following the completion of the final invoicing process. This approach guarantees financial transparency and effective management throughout the project.

FIRE FIGHTING EQUIPMENT MOUNTING FUND

A Fire Fighting Equipment Mounting Fund amounting to \$10,000 per unit is incorporated into the quotation and is specifically designated to cover the expenses associated with mounting of said equipment, adhering to the directives of the Customer.

In the event that the mounting costs surpass the stipulated allowance, any additional work required can be undertaken at the prevailing shop rate. Any unused portion of the Fire Fighting Equipment Mounting Fund will be credited back on the final invoice. Alternatively, if not credited, the remaining funds will be promptly returned to the Customer in the form of a check following the completion of the final invoicing process. This approach guarantees financial transparency and effective management throughout the project.

PRE-CONSTRUCTION, FACTORY VISIT

A pre-construction trip to the manufacturing facility is included for five (5) Customer representatives. The primary objective of review and finalize, in detail, the specifications prior to the start of production. The pre-construction trip is anticipated to span four (4) days and three (3) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the pre-construction trip.

Please note that one (1) factory pre-construction trip has been priced for the two (2) units being proposed (meaning that the cost for this trip has been spread evenly over two (2) units).

FINAL INSPECTION, FACTORY VISIT

A final inspection trip to the manufacturing facility is included for five (5) Customer representatives. The primary objective of this visit is to ensure the adherence of the apparatus to specifications and promptly identify any potential deficiencies. The final inspection trip is anticipated to span six (6) days and five (5) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the final inspection trip.

Please note that one (1) factory final inspection trip has been priced for the two (2) units being proposed (meaning that the cost for this trip has been spread evenly over two units).

DELIVERY TO AUTHORIZED SERVICE FACILITY

GSFA will deliver the apparatus to our Northern California facility located in Sacramento for a comprehensive dealer preparation inspection. This service, conducted at the expense of GSFA, aims to have the apparatus in optimal condition at the time of final delivery.

To ensure the proper break-in of all components while still under warranty, the apparatus will be delivered under its own power. The use of rail or truck freight for transportation is deemed unacceptable in order to uphold the highest standards of quality assurance during the delivery process. This approach not only aligns with warranty considerations but also emphasizes the commitment to delivering a fully operational apparatus to our valued customers.

PRE-DELIVERY SERVICE

Before reaching its final destination, the apparatus undergoes a pre-delivery service conducted by Golden State Emergency Vehicle Service, Inc. This service is designed to tap into the expertise of an external source, providing an experienced perspective that enhances the thoroughness of your final inspection. Our pre-delivery service covers the following areas:

1. Engine Compartment and Undercarriage:
 - Inspect for broken mounting brackets.

- Inspect and identify locations of any fluid leaks.
- General inspection of hoses, wiring, and linkage, focusing on potential wear points.
- Verify correct fluid capacities for engine oil, coolant, power steering fluid, washer reservoir fluid, transmission fluid, rear-end fluid, pump transmission oil, and primer oil if applicable.
- Re-torque U-bolts to OEM specifications if equipped with leaf spring suspension (Pierce Custom chassis only).

2. Interior:

- Confirm proper operation of doors, windows, and locks, ensuring accurate adjustment.
- Confirm proper operation of seatbelt alarms.
- Confirm proper operation of all compartment door alarms, as well as hose bed cover, ladder rack, light tower, and deck gun alarms.
- Ensure functionality of auxiliary power points, interior lighting, mirror, and seat controls, and if applicable - headsets and radios.
- Inspect upholstery for quality and condition.

3. Exterior:

- Address reasonable paint scratches or chips.
- Tighten any loose hardware.
- Inspect tires and wheels, ensure proper pressure.
- Check compartment doors for proper operation and latch fit.
- Lubricate compartment door locks if applicable.

4. Road Test:

- Conduct a road test with a full water tank (if applicable), covering approximately twenty miles on both city and highway roads.
- Perform a DOT compliant brake test to verify the system is holding air.
- Inspect brake condition, wheel seals, and ensure drive train components reach optimal operating temperatures.
- Conduct an Allison Transmission self-diagnostic to verify fluid level, fluid and filter life, and check for fault codes.

5. Electrical:

- Verify the operation of all lights, sirens, and other electrical accessories.

6. Pump:

- Operate the Pressure Governor or Relief Valve, transfer valve, and check pump shift.

- Inspect water tank, pump and plumbing for leaks and calibrate the water level gauge.
 - Ensure smooth operation of all discharge, suction, and drain valves.
7. Pierce Husky™ Foam System:
- If applicable, draft and inject clean water to ensure proper operation of the foam pump.
8. Fuel and DEF Tanks:
- Fill the fuel tank and DEF tank prior to final delivery.
9. Wash:
- Thoroughly wash the apparatus prior to final delivery.

This pre-delivery service assists the apparatus to meet our high standards of quality and operational efficiency before reaching its final destination.

FINAL DELIVERY (CUSTOMER LOCATION)

GSFA will deliver the completed Product, inclusive of any relevant equipment, spare parts, and supplies, to the Customer's specified address at GSFA's expense.

In preparation for the Product's delivery, the Customer is required to furnish GSFA with proof of liability and physical damage insurance. GSFA will withhold the release of the Product until such proof of insurance is provided.

To ensure a timely delivery process, it is incumbent upon the Customer to settle any outstanding balance owed to GSFA before or at the time the Product is completed and ready for delivery. In the event of delayed payment or delivery, GSFA reserves the right to impose a late fee and daily storage charge as outlined in the Standard Terms and Conditions until payment is received.

For compliance with insurance liability considerations, the Product will only be delivered upon full acceptance and full payment, or through a prior written agreement mutually reached between the Customer and GSFA. This ensures a secure and efficient finalization of the delivery process, aligning with both parties' obligations and safeguarding against potential liabilities.

COMPREHENSIVE SALES AND SERVICE SUPPORT

At GSFA, we understand that immediate response is essential - and the service and support of your apparatus should be no different. Since our founding in 1989, our mission has been to provide first responders with the highest quality, most reliable fire and emergency apparatus from top-tier manufacturers. We specialize in guiding our customers through the entire process - from apparatus

evaluation and customization to final inspection - and ensuring years of reliable service through our Golden State Emergency Vehicle Service (GSEVS) division.

Golden State Emergency Vehicle Service (GSEVS)

Established in 2014, GSEVS is committed to building long-term, collaborative relationships by providing exceptional warranty and technical support. Our services cover a wide range of needs, including chassis, electrical systems, pump, aerial, routine maintenance, equipment mounting, and pump testing - with priority given to new units sold by GSFA. Our goal is to deliver prompt, professional service and unwavering support for your apparatus.

Sacramento Facility

Our Sacramento location features a 33,814-square-foot facility with 14 working bays and a 4,500-square-foot, two-story parts distribution department. Conveniently located near Highway 99 with easy access to Interstates 80 and 50, we are positioned to serve you efficiently.

Tracy Facility (Opening Fall 2025)

Our second location in Tracy will expand our service capacity with a 49,634-square-foot facility featuring 21 working bays and a parts department equal in size to our Sacramento facility. Strategically located within the "Tracy Triangle" - bordered by I-580, I-205, and I-5 - this facility will enhance our ability to serve customers in the Bay Area and beyond.

Certified and Experienced Technicians

Our service team includes factory-trained professionals certified by Pierce, ASE, and EVT. They undergo regular training to stay current on chassis, electrical systems, and aerial devices, ensuring expert handling of any challenge. Whether it's routine maintenance or complex diagnostics, you can count on expert care and precision with every visit.

Parts

At Golden State, we're dedicated to keeping your apparatus fully operational and mission-ready. That's why we maintain a robust inventory of both Pierce and non-Pierce parts—ready for immediate deployment when you need them most. If a part isn't in stock, we expedite orders directly from the manufacturer to minimize downtime and get your unit back in service without delay.

To make the process even more efficient, our digital Parts Request Portal offers a streamlined, user-friendly experience. It provides 24/7 access to submit requests, monitor order status, and communicate directly with our team—ensuring transparent updates and quicker turnaround times every step of the way.

Mobile Service

To minimize emergency apparatus downtime, we offer a robust mobile service program for on-site repairs and maintenance.

Pre-Delivery Inspection (PDI) Process

We employ a dedicated team of Pre-Delivery Inspection (PDI) technicians solely focused on ensuring your apparatus arrives in peak condition. Before your new custom unit is delivered, it undergoes a thorough, multi-point inspection to verify quality, performance, and compliance with all specifications.

Our team handles every detail of the acceptance and delivery process—so you can take ownership with complete confidence and peace of mind.

Your Single Source for Sales and Service

With Golden State Fire, you have a single point of contact for sales, service, and support - all under one roof, with two strategically located facilities to serve you better. We are confident that our combination of expertise, customer service, and product support is unmatched by any other fire and emergency apparatus dealership in California.

END OF EXHIBIT “D”