



**Specialty Vehicles, Inc.**

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## TAB 8 – PRODUCTS

Specialty Vehicles, Inc. / Ferrara Fire Apparatus are in compliance with the requirements as set forth in Tab 8 - Products of the RFP #FCAM 2015 Pumpers.

A description of each product has been provided on the following apparatus:

PRODUCT CODE	MODEL NAME	APPARATUS TYPE AND CLASSIFICATION
INF-MVP-1000	Inferno MVP Pumper	High-End Custom Pumper
IGN-MVP-1000	Igniter MVP Pumper	High-End Custom Pumper
CIN-MVP-1000	Cinder MVP Pumper	High-End Custom Pumper
INF-PMP-1000	Inferno Pumper	Mid-Range Custom Pumper
IGN-PMP-1000	Igniter Pumper	Mid-Range Custom Pumper
CIN-PMP-1000	Cinder Pumper	Mid-Range Custom Pumper
FL-COM-1000	Freightliner 2-Door Commercial Pumper	Basic Commercial Pumper
FL-PMP-1001	Freightliner 4-Door Commercial Pumper	Mid-Range Commercial Pumper
FL-LBT-1001	Freightliner 4-Door Commercial Rescue Pumper	High-End Commercial Pumper

**INFERNO MVP  
PUMPER**



## **MODEL: INFERNO MVP PUMPER**

### **HIGH END CUSTOM PUMPER**

This apparatus is a heavy duty MVP rescue pumper that is mounted on our Inferno chassis. It is powered by a Cummins ISX12 500hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is provided with a steel bumper that is fabricated from 80,000 psi 10-1/2 x 3-1/2" x 0.375" steel channel material. This bumper provides superior protection against frontal and angled impacts. The extended front bumper also includes the air horns and electronic siren speaker.

The apparatus is equipped with aluminum wheels for all six (6) wheels.

The cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The 100" wide cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Inferno cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This MVP body has a 1000 gallon water tank and **over 600 cubic feet** of enclosed compartment storage. This amount does not include the hose bed or the ladder storage compartment. This amount of storage allows fire departments to use this apparatus as both a heavy rescue and as an engine possibly allowing a reduction in the number of apparatus needed. The MVP apparatus body is equipped with ROM roll-up doors painted to match the body.

The body also has wheel well storage for eight (8) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1750 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 -- Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Inferno MVP Pumper

Quote No: 61208-0003

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	300	FE
00-B2-0620	Custom XD Full Tilt Cab - INFERNO MVP	1	FE
	<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
	<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
02-B2-1020	-- Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1420	-- Tow Hooks - Chrome, Below the Bumper	1	FE
02-C4-2220	-- Front Bumper Extension - 24"	1	FE
02-D2-0220	-- Gravelshield - Front Bumper Extension	1	FE
02-D6-0420	-- Compartment - Front Bumper, Full Length	1	FE
02-E6-4020	-- Cover - Raised Aluminum T/P, Full Length	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
	<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
04-A2-0820	-- Front Axle - 22,500 Pounds, Meritor MFS-20	1	FE
02-A2-2020	-- Wheelbase - Greater than 209"	1	FE
02-A4-0420	-- Framerail - Double	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0620	-- Steering System - TRW, Over 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-1020	-- Front Suspension - 22,500 Pounds, Parabolic	1	FE
04-C2-0620	-- Front Brakes - Disc, Meritor EX-225	1	FE
04-C4-0220	-- Cramp Angle - 41 Degrees	1	FE
04-D4-1020	-- Front Tires - Michelin 425/65R 22.5 "L" XFE 22,500 Pounds	1	FE
04-E2-2820	-- Front Wheels - Aluminum (425 Tires)	1	FE
04-E4-0220	-- Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-G2-1020	-- Rear Axle - 33,000 Pounds, Meritor RS-30-185	1	FE
04-K2-8420	-- Rear Suspension - 33,000 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0420	-- Vehicle Top Speed: 60-62 MPH	1	FE
04-P2-0620	-- Rear Brakes - S-Cam 16-1/2" x 8.62"	1	FE
04-R4-1220	-- Rear Tires - Michelin 315/80R22.5 "L" XDN 33,000 Pounds	1	FE
04-S2-2420	-- Rear Wheels - Aluminum (315 Tires)	1	FE
04-T2-0220	-- Wheel Trim - Rear, Lincoln Hats	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
<b>AIR BRAKE SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
<b>ENGINES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
08-A4-0620	-- Engine - 500 HP, Cummins ISX12 (EPA 2013)	1	FE
<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
10-A2-1220	-- Transmission - Allison 4000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0420	-- Driveline - 1810 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0420	-- Engine Brake - Cummins ISX Engine	1	FE
<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISX</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
08-C2-0220	-- Cooling System - Cummins Engine	1	FE
08-C2-1220	-- Cooling System Fan - Cummins ISX	1	FE
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4020	-- Coolant Hoses - Silicone	1	FE
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISX</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-J4-2420	-- Fuel Water Separator - Racor 3150R	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filter/SCR	1	FE
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-D2-2220	-- Alternator - 430 AMP, Delco Remy 55SI	1	FE
08-E2-0620	-- Battery System - 6 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-2020	-- Covers - Battery Box, Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6620	-- Termination Point - Driver's Step Area	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-E8-0620	-- Battery Charger - Auto Charge 1200, Kussmaul 091-187-12-REMOTE	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmaul 091-199-01	1	FE
10-J6-0220	-- DEF System w/5 Gallon Tank - L1 Compartment	1	FE
<b>CAB CONFIGURATIONS - INFERNO XD - SMFD thru XLFD</b>		<b>1</b>	<b>FE</b>
12-E8-2620	-- Custom XD 100" XMFD Cab w/8" Raised Roof (MVP Raised Dog House)	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
12-S6-0220	-- Compartment - Pike Pole Storage, Rear of Cab	1	FE
14-P2-0220	-- Front Cab Circulation Fans (2)	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom	1	FE
	SCBA		
16-E6-4420	-- Brackets (2) - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
	<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-A2-0220	-- Front Grille - Cast Aluminum	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0420	-- Cab Mirrors - Heated/Remote, FFA West Coast Style	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
	<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
14-H4-2220	-- Interior Trim - Mounting Plate, Engine Tunnel	1	FE
14-H4-2420	-- Interior Trim - Mounting Plate, Raised Engine Tunnel Section	1	FE
	<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>	<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE

PART NO	DESCRIPTION	QTY	ID
14-K6-4220	-- Switch - Manual Fast Idle	1	FE
<b>CUSTOM CAB - ACCESSORIES</b>		<b>1</b>	<b>FE</b>
16-M2-0820	-- Fuse Block - 12-Volt 6-Place, Blue Sea 5025	1	FE
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420	-- 12-Volt Power Outlet - Cab Mounted	2	FE
16-M2-6620	-- Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-2420	-- Light - Open Door w/Alarm, Whelen TIR3 LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE

PART NO	DESCRIPTION	QTY	ID
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-1220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM - ENCLOSED	1	FE
20-A4-4020	Trim - Dunnage Area, Tread Plate	1	FE
20-C4-2020	Pump Panels - Black Anodized Aluminum	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F8-0220	Slide-Out Platform - Pump Operator's, 500-Pound Capacity	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-2020	-- Certification - U.L. 1750 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Left Side	1	FE
24-B2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-1020	-- Tank-To-Pump - 3" Valve w/Air Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-1220	-- Tank Fill - 2" Valve w/Electric Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Electric</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-F2-8420	-- Speedlays - (2) 200' 1-3/4" (1) 2-1/2" Double Lay, MVP Style	1	FE
28-F4-0620	-- Speedlay No. 1 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-1820	-- Speedlay No. 2 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-6220	-- Speedlay No. 3 - Double Lay, 2-1/2" Valve w/Electric Control	1	FE
28-F6-0620	-- Trays - Removable Speedlay (3)	1	FE
28-F8-0420	-- Cover - End Flaps w/Snaps, Speedlays (3)	1	FE
28-F8-2020	-- Cover Color: Red	1	FE
28-H8-0620	-- Discharge - LPF, 2-1/2" Akron Valve w/Electric Control	1	FE
28-J8-0620	-- Discharge - LPR, 2-1/2" Akron Valve w/Electric Control	1	FE

PART NO	DESCRIPTION	QTY	ID
28-M2-2620	-- Discharge - RPF, 3" Akron Valve w/Electric Control	1	FE
28-P6-0620	-- Discharge - RPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-V6-2620	-- Discharge - Left Rear, 3" Akron Valve w/Electric Control	1	FE
32-A2-4220	Water Tank - Polypropylene, 1000 Gallons (R)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A4-8420	Body - 103" Wide, MVP1000 Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6420	-- Body/Compartment Construction - 103" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D6-2820	-- Compartments- Left Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	2	FE
52-F2-6220	-- Compartment Door - Left Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-H4-4620	-- Compartments- Right Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Inter	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J6-2220	-- Compartment Door - Right Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-J8-1620	-- Compartment - Center Rear, Full Height w/Roll Up Door	1	FE
52-J8-4220	-- Compartment Door - Rear Roll Up, ROM Painted (Slats & Door Frame)	1	FE
52-J8-6220	-- Rear Body Construction - Flat Back Design	1	FE
58-E2-0820	-- Compartments (6) - Roof Top Storage	1	FE
62-A2-8220	Compartment - Ladder/Pike Pole Storage, Thru Tank	1	FE
62-B2-1220	-- Tubes (2) - Pike Pole Storage	1	FE
62-D2-1620	Compartment - Suction Hose Storage, In Hose Bed	1	FE
62-I2-1420	Storage Module - Backboard, Transverse	1	FE
64-B2-0420	-- Compartment - Wheel Well Double Air Bottle, Left Front	1	FE
64-B4-0420	-- Compartment - Wheel Well Double Air Bottle, Left Rear	1	FE
64-B4-6220	-- Compartment - Wheel Well Double Air Bottle, Right Front	1	FE
64-B6-6220	-- Compartment - Wheel Well Double Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0420	-- Step - 10" Rear, Slotted Aluminum	1	FE
66-A4-8480	-- Ladder - Rear Access, Zico Quic-Ladder RL15-2-6	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-6220	-- Cover - Aluminum w/End Flaps, Pumper/Tanker	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>		<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
<b>AUDIBLE WARNING DEVICES</b>		<b>1</b>	<b>FE</b>
<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>1</b>	<b>FE</b>
70-E2-2620	-- Light - 12" LED Compartment, On Scene Access 73012	2	FE
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	4	FE
70-E2-8620	-- Light - 36" LED Compartment, On Scene Access 73036	2	FE
70-E4-0620	-- Light - 44" LED Compartment, On Scene Access 73044	2	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	1	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	1	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-M8-1720	-- Zone B/D Upper Body Side Front Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-P8-1020	-- Zone B/D Upper Body Side Rear Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-S6-2420	-- Zone C Upper Outboard Lights (4) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
74-L0-2220	-- Lights - LED Clearance and Marker, Whelen OS	1	FE
74-L2-1020	-- Lights (6) - LED Underbody, Whelen 20C0CDCD	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
	<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
74-Q2-0420	-- Brow Light Location - Front of Cab, Centered	1	FE
74-Q4-0620	-- Light - 12 Volt 75 Watt LED Brow, Whelen Pioneer Plus PFP1	1	FE
74-Q8-8020	-- Switch - Brow Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
74-R2-0820	-- Lights (2) - 12 Volt 75 Watt LED Semi Recessed, Whelen Pioneer Plus PFP1-PBA103	1	FE
74-R8-2020	-- Recessed Light Locations - Side of Body, Center	1	FE
74-R8-2220	-- Switch - Center Body Side Scene Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE

PART NO	DESCRIPTION	QTY	ID
98-A6-1020	Warranty - Frame Corrosion "F"-Shield	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Year Non Pro-Rated	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kochek 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kochek BS60C	1	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**IGNITER MVP  
PUMPER**



## **MODEL: IGNITER MVP PUMPER**

### **HIGH END CUSTOM PUMPER**

This apparatus is a heavy duty MVP rescue pumper that is mounted on our Igniter chassis. It is powered by a Cummins ISL9 450hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is provided with a steel bumper that is fabricated from 80,000 psi 10-1/2 x 3-1/2" x 0.375" steel channel material. This bumper provides superior protection against frontal and angled impacts. The extended front bumper also includes the air horns and electronic siren speaker.

The apparatus is equipped with aluminum wheels for all six (6) wheels.

The 100" wide cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Igniter cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This MVP body has a 1000 gallon water tank and **over 600 cubic feet** of enclosed compartment storage. This amount does not include the hose bed or the ladder storage compartment. This amount of storage allows fire departments to use this apparatus as both a heavy rescue and as an engine possibly allowing a reduction in the number of apparatus needed. The MVP apparatus body is equipped with ROM roll-up doors painted to match the body.

The body also has wheel well storage for eight (8) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1750 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Igniter MVP Pumper

Quote No: 61208-0002

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	300	FE
00-A2-0820	Custom XD Full Tilt Cab - IGNITER MVP	1	FE
<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-1020	-- Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1420	-- Tow Hooks - Chrome, Below the Bumper	1	FE
02-C4-2220	-- Front Bumper Extension - 24"	1	FE
02-D2-0220	-- Gravelshield - Front Bumper Extension	1	FE
02-D6-0420	-- Compartment - Front Bumper, Full Length	1	FE
02-E6-4020	-- Cover - Raised Aluminum T/P, Full Length	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
04-A2-0820	-- Front Axle - 22,500 Pounds, Meritor MFS-20	1	FE
02-A2-2020	-- Wheelbase - Greater than 209"	1	FE
02-A4-0420	-- Framerail - Double	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0620	-- Steering System - TRW, Over 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-1020	-- Front Suspension - 22,500 Pounds, Parabolic	1	FE
04-C2-0620	-- Front Brakes - Disc, Meritor EX-225	1	FE
04-C4-0220	-- Cramp Angle - 41 Degrees	1	FE
04-D4-1020	-- Front Tires - Michelin 425/65R 22.5 "L" XFE 22,500 Pounds	1	FE
04-E2-2820	-- Front Wheels - Aluminum (425 Tires)	1	FE
04-E4-0220	-- Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-G2-1020	-- Rear Axle - 33,000 Pounds, Meritor RS-30-185	1	FE
04-K2-8420	-- Rear Suspension - 33,000 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0420	-- Vehicle Top Speed: 60-62 MPH	1	FE
04-P2-0620	-- Rear Brakes - S-Cam 16-1/2" x 8.62"	1	FE
04-R4-1220	-- Rear Tires - Michelin 315/80R22.5 "L" XDN 33,000 Pounds	1	FE
04-S2-2420	-- Rear Wheels - Aluminum (315 Tires)	1	FE
04-T2-0220	-- Wheel Trim - Rear, Lincoln Hats	1	FE
04-S4-0220	-- Valve Stem Extensions (4)	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
<b>AIR BRAKE SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
<b>ENGINES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
08-A2-1020	-- Engine - 450 HP, Cummins ISL9 (EPA 2013)	1	FE
<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
10-A2-0220	-- Transmission - Allison 3000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220	-- Driveline - 1710 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0620	-- Engine Brake - Cummins ISL Engine	1	FE

PART NO	DESCRIPTION	QTY	ID
<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISL</b>		<b>1</b>	<b>FE</b>
08-C2-0220	-- Cooling System - Cummins Engine	1	FE
08-C2-1420	-- Cooling System Fan - Cummins ISL	1	FE
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4020	-- Coolant Hoses - Silicone	1	FE
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISL</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filer/SCR	1	FE
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-D2-2220	-- Alternator - 430 AMP, Delco Remy 55SI	1	FE
08-E2-0620	-- Battery System - 6 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-2020	-- Covers - Battery Box, Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6620	-- Termination Point - Driver's Step Area	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-E8-0620	-- Battery Charger - Auto Charge 1200, Kussmaul 091-187-12-REMOTE	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmual 091-199-01	1	FE
10-J6-0220	-- DEF System w/5 Gallon Tank - L1 Compartment	1	FE
<b>CAB CONFIGURATIONS - IGNITER XD - SMFD thru XLFD</b>		<b>1</b>	<b>FE</b>
12-C8-1820	-- Custom XD 100" XMFD Cab w/8" Raised Roof (MVP)	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
12-S6-0220	-- Compartment - Pike Pole Storage, Rear of Cab	1	FE
14-P2-0220	-- Front Cab Circulation Fans (2)	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom SCBA	1	FE
16-E6-4420	-- Brackets (2) - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-A2-0220	-- Front Grille - Cast Aluminum	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0420	-- Cab Mirrors - Heated/Remote, FFA West Coast Style	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
14-H4-2220	-- Interior Trim - Mounting Plate, Engine Tunnel	1	FE
<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>		<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
14-K6-4220	-- Switch - Manual Fast Idle	1	FE

PART NO	DESCRIPTION	QTY	ID
<b>CUSTOM CAB - ACCESSORIES</b>		<b>1</b>	<b>FE</b>
16-M2-0820	-- Fuse Block - 12-Volt 6-Place, Blue Sea 5025	1	FE
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420	-- 12-Volt Power Outlet - Cab Mounted	2	FE
16-M2-6620	-- Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-2420	-- Light - Open Door w/Alarm, Whelen TIR3 LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-1220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM - ENCLOSED	1	FE

PART NO	DESCRIPTION	QTY	ID
20-A4-4020	Trim - Dunnage Area, Tread Plate	1	FE
20-C4-2020	Pump Panels - Black Anodized Aluminum	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F8-0220	Slide-Out Platform - Pump Operator's, 500-Pound Capacity	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-2020	-- Certification - U.L. 1750 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Left Side	1	FE
24-B2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-1020	-- Tank-To-Pump - 3" Valve w/Air Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-1220	-- Tank Fill - 2" Valve w/Electric Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Electric</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-F2-8420	-- Speedlays - (2) 200' 1-3/4" (1) 2-1/2" Double Lay, MVP Style	1	FE
28-F4-0620	-- Speedlay No. 1 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-1820	-- Speedlay No. 2 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-6220	-- Speedlay No. 3 - Double Lay, 2-1/2" Valve w/Electric Control	1	FE
28-F6-0620	-- Trays - Removable Speedlay (3)	1	FE
28-F8-0420	-- Cover - End Flaps w/Snaps, Speedlays (3)	1	FE
28-F8-2020	-- Cover Color: Red	1	FE
28-H8-0620	-- Discharge - LPF, 2-1/2" Akron Valve w/Electric Control	1	FE
28-J8-0620	-- Discharge - LPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-M2-2620	-- Discharge - RPF, 3" Akron Valve w/Electric Control	1	FE
28-P6-0620	-- Discharge - RPR, 2-1/2" Akron Valve w/Electric Control	1	FE

PART NO	DESCRIPTION	QTY	ID
28-V6-2620	-- Discharge - Left Rear, 3" Akron Valve w/Electric Control	1	FE
32-A2-4220	Water Tank - Polypropylene, 1000 Gallons (R)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A4-8420	Body - 103" Wide, MVP1000 Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6420	-- Body/Compartment Construction - 103" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D6-2820	-- Compartments- Left Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	2	FE
52-F2-6220	-- Compartment Door - Left Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-H4-4620	-- Compartments- Right Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Inter	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J6-2220	-- Compartment Door - Right Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-J8-1620	-- Compartment - Center Rear, Full Height w/Roll Up Door	1	FE
52-J8-4220	-- Compartment Door - Rear Roll Up, ROM Painted (Slats & Door Frame)	1	FE
52-J8-6220	-- Rear Body Construction - Flat Back Design	1	FE
58-E2-0820	-- Compartments (6) - Roof Top Storage	1	FE
62-A2-8220	Compartment - Ladder/Pike Pole Storage, Thru Tank	1	FE
62-B2-1220	-- Tubes (2) - Pike Pole Storage	1	FE
62-D2-1620	Compartment - Suction Hose Storage, In Hose Bed	1	FE
62-I2-1420	Storage Module - Backboard, Transverse	1	FE
64-B2-0420	-- Compartment - Wheel Well Double Air Bottle, Left Front	1	FE
64-B4-0420	-- Compartment - Wheel Well Double Air Bottle, Left Rear	1	FE
64-B4-6220	-- Compartment - Wheel Well Double Air Bottle, Right Front	1	FE
64-B6-6220	-- Compartment - Wheel Well Double Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0420	-- Step - 10" Rear, Slotted Aluminum	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A4-8480	-- Ladder - Rear Access, Zico Quic-Ladder RL15-2-6	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-6220	-- Cover - Aluminum w/End Flaps, Pumper/Tanker	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>		<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
<b>AUDIBLE WARNING DEVICES</b>		<b>1</b>	<b>FE</b>
<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>1</b>	<b>FE</b>
70-E2-2620	-- Light - 12" LED Compartment, On Scene Access 73012	2	FE
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	4	FE
70-E2-8620	-- Light - 36" LED Compartment, On Scene Access 73036	2	FE
70-E4-0620	-- Light - 44" LED Compartment, On Scene Access 73044	2	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	1	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	1	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-M8-1720	-- Zone B/D Upper Body Side Front Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-P8-1020	-- Zone B/D Upper Body Side Rear Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-S6-2420	-- Zone C Upper Outboard Lights (4) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-1020	-- Lights (6) - LED Underbody, Whelen 20C0CDCD	1	FE

PART NO	DESCRIPTION	QTY	ID
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
	<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
74-Q2-0420	-- Brow Light Location - Front of Cab, Centered	1	FE
74-Q4-0620	-- Light - 12 Volt 75 Watt LED Brow, Whelen Pioneer Plus PFP1	1	FE
74-Q8-8020	-- Switch - Brow Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
74-R2-0820	-- Lights (2) - 12 Volt 75 Watt LED Semi Recessed, Whelen Pioneer Plus PFP1-PBA103	1	FE
74-R8-2020	-- Recessed Light Locations - Side of Body, Center	1	FE
74-R8-2220	-- Switch - Center Body Side Scene Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A6-1020	Warranty - Frame Corrosion "F"-Shield	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE

PART NO	DESCRIPTION	QTY	ID
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Years Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kocheck BS60C	1	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**CINDER MVP  
PUMPER**



## **MODEL: CINDER MVP PUMPER**

### **HIGH END CUSTOM PUMPER**

This apparatus is a heavy duty MVP rescue pumper that is mounted on our Cinder chassis. It is powered by a Cummins ISL 450hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is provided with a steel bumper that is fabricated from 80,000 psi 10-1/2 x 3-1/2" x 0.375" steel channel material. This bumper provides superior protection against frontal and angled impacts. The extended front bumper also includes the air horns and electronic siren speaker.

The apparatus is equipped with aluminum wheels for all six (6) wheels.

The cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The 96" wide cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Cinder cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This MVP body has a 1000 gallon water tank and **over 600 cubic feet** of enclosed compartment storage. This amount does not include the hose bed or the ladder storage compartment. This amount of storage allows fire departments to use this apparatus as both a heavy rescue and as an engine possibly allowing a reduction in the number of apparatus needed. The MVP apparatus body is equipped with ROM roll-up doors painted to match the body.

The body also has wheel well storage for eight (8) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1750 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Cinder MVP Pumper

Quote No: 61208-0001

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	300	FE
00-D2-0620	Custom XD Full Tilt Cab - CINDER MVP	1	FE
<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-0220	-- Front Bumper - 12" High, Polished Stainless Steel	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1620	-- Tow Hooks - Painted, Below the Bumper	1	FE
02-C4-2220	-- Front Bumper Extension - 24"	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-A2-0820	-- Front Axle - 22,500 Pounds, Meritor MFS-20	1	FE
02-A2-2020	-- Wheelbase - Greater than 209"	1	FE

PART NO	DESCRIPTION	QTY	ID
02-A4-0420	-- Framerail - Double	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0620	-- Steering System - TRW, Over 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-1020	-- Front Suspension - 22,500 Pounds, Parabolic	1	FE
04-C2-0220	-- Front Brakes - S-Cam, 16-1/2" x 6"	1	FE
04-C4-0220	-- Cramp Angle - 41 Degrees	1	FE
04-D2-1020	-- Front Tires - Goodyear 425/65R22.5 "L" G296 MSA 22,500 Pounds	1	FE
04-E2-2820	-- Front Wheels - Aluminum (425 Tires)	1	FE
04-E4-0220	-- Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
	<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
04-G2-0820	-- Rear Axle - 31,500 Pounds, Meritor RS-30-185	1	FE
04-K2-8220	-- Rear Suspension - 31,500 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0420	-- Vehicle Top Speed: 60-62 MPH	1	FE
04-P2-0220	-- Rear Brakes - S-Cam 16-1/2" x 7"	1	FE
04-R2-1020	-- Rear Tires - Goodyear 315/80R22.5 "J" Regional RHD 31,500 Pounds	1	FE
04-S2-2420	-- Rear Wheels - Aluminum (315 Tires)	1	FE
04-T2-0220	-- Wheel Trim - Rear, Lincoln Hats	1	FE
04-S4-0220	-- Valve Stem Extensions (4)	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
	<b>AIR BRAKE SYSTEM / COMPONENTS</b>	<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
	<b>ENGINES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
08-A2-1020	-- Engine - 450 HP, Cummins ISL9 (EPA 2013)	1	FE
	<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
10-A2-0220	-- Transmission - Allison 3000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220	-- Driveline - 1710 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0620	-- Engine Brake - Cummins ISL Engine	1	FE
	<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISL</b>	<b>1</b>	<b>FE</b>
08-C2-0420	-- Cooling System - 1400 Square Inch Radiator	1	FE

PART NO	DESCRIPTION	QTY	ID
08-C2-1420	-- Cooling System Fan - Cummins ISL	1	FE
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4220	-- Coolant Hoses - Premium Rubber	1	FE
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISL</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0420	-- Valve - Fuel Shutoff	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filer/SCR	1	FE
08-D2-2220	-- Alternator - 430 AMP, Delco Remy 55SI	1	FE
08-E2-0620	-- Battery System - 6 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6220	-- Termination Point - Battery Box	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-E8-0620	-- Battery Charger - Auto Charge 1200, Kussmaul 091-187-12-REMOTE	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmaul 091-199-01	1	FE
10-J6-0820	-- DEF System w/5 Gallon Tank - Left Rear Under Cab	1	FE
10-J8-2020	-- DEF Fill w/Door - Left Crew Cab Extension	1	FE
<b>CAB CONFIGURATIONS - CINDER XD - SMFD thru LFD</b>		<b>1</b>	<b>FE</b>
12-H6-2220	-- Custom XD 96" XMFD Cab w/8" Raised Roof (MVP)	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
12-S6-0220	-- Compartment - Pike Pole Storage, Rear of Cab	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE

PART NO	DESCRIPTION	QTY	ID
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-0220	-- Bracket - Cab Seat SCBA, Zico ULLH	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-2020	-- Bracket - Cab Seat SCBA, Zico ULLH	1	FE
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-2020	-- Bracket - Cab Seat SCBA, Zico ULLH	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom SCBA	1	FE
16-E6-2020	-- Brackets (2) - Cab Seat SCBA, Zico ULLH	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
	<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-A2-0230	-- Front Grille - Stainless Steel	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0620	-- Cab Mirrors - Heated/Remote, Velvac Stainless Steel	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
14-A6-8220	-- Exterior Trim - Tread Plate, Back of Cab	1	FE
	<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G4-6420	-- Interior Trim - Sprayed Aluminum, Rear Wall	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
	<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>	<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
	<b>CUSTOM CAB - ACCESSORIES</b>	<b>1</b>	<b>FE</b>
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE

PART NO	DESCRIPTION	QTY	ID
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420	-- 12-Volt Power Outlet - Cab Mounted	2	FE
16-M2-6620	-- Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-6020	-- Light - Open Door, Whelen OS LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
02-D2-0220	Gravelshield - Front Bumper Extension	1	FE
02-D6-0420	Compartment - Front Bumper, Full Length	1	FE
02-E6-4020	-- Cover - Raised Aluminum T/P, Full Length	1	FE
14-H4-2220	Interior Trim - Mounting Plate, Engine Tunnel	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-1220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM - ENCLOSED	1	FE
20-A4-4020	Trim - Dunnage Area, Tread Plate	1	FE
20-C4-2020	Pump Panels - Black Anodized Aluminum	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE

PART NO	DESCRIPTION	QTY	ID
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F8-0220	Slide-Out Platform - Pump Operator's, 500-Pound Capacity	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-2020	-- Certification - U.L. 1750 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Left Side	1	FE
24-B2-4620	-- Suction Header Short - 6" w/Electric MIV Valve, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-1020	-- Tank-To-Pump - 3" Valve w/Air Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-1220	-- Tank Fill - 2" Valve w/Electric Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Electric</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-F2-8420	-- Speedlays - (2) 200' 1-3/4" (1) 2-1/2" Double Lay, MVP Style	1	FE
28-F4-0620	-- Speedlay No. 1 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-1820	-- Speedlay No. 2 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-6220	-- Speedlay No. 3 - Double Lay, 2-1/2" Valve w/Electric Control	1	FE
28-F6-0620	-- Trays - Removable Speedlay (3)	1	FE
28-F8-0420	-- Cover - End Flaps w/Snaps, Speedlays (3)	1	FE
28-F8-2020	-- Cover Color: Red	1	FE
28-H8-0620	-- Discharge - LPF, 2-1/2" Akron Valve w/Electric Control	1	FE
28-J8-0620	-- Discharge - LPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-M2-2620	-- Discharge - RPF, 3" Akron Valve w/Electric Control	1	FE
28-P6-0620	-- Discharge - RPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-V6-2620	-- Discharge - Left Rear, 3" Akron Valve w/Electric Control	1	FE

PART NO	DESCRIPTION	QTY	ID
32-A2-4220	Water Tank - Polypropylene, 1000 Gallons (R)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A4-8420	Body - 103" Wide, MVP1000 Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6420	-- Body/Compartment Construction - 103" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D6-2820	-- Compartments- Left Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	2	FE
52-F2-6220	-- Compartment Door - Left Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-H4-4620	-- Compartments- Right Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Inter	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J6-2220	-- Compartment Door - Right Side Roll Up, ROM Painted (Slats & Door Frame)	4	FE
52-J8-1620	-- Compartment - Center Rear, Full Height w/Roll Up Door	1	FE
52-J8-4220	-- Compartment Door - Rear Roll Up, ROM Painted (Slats & Door Frame)	1	FE
52-J8-6220	-- Rear Body Construction - Flat Back Design	1	FE
58-E2-0820	-- Compartments (6) - Roof Top Storage	1	FE
62-A2-8220	Compartment - Ladder/Pike Pole Storage, Thru Tank	1	FE
62-B2-1220	-- Tubes (2) - Pike Pole Storage	1	FE
62-D2-1620	Compartment - Suction Hose Storage, In Hose Bed	1	FE
62-I2-1420	Storage Module - Backboard, Transverse	1	FE
64-B2-0420	-- Compartment - Wheel Well Double Air Bottle, Left Front	1	FE
64-B4-0420	-- Compartment - Wheel Well Double Air Bottle, Left Rear	1	FE
64-B4-6220	-- Compartment - Wheel Well Double Air Bottle, Right Front	1	FE
64-B6-6220	-- Compartment - Wheel Well Double Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0420	-- Step - 10" Rear, Slotted Aluminum	1	FE
66-A4-8480	-- Ladder - Rear Access, Zico Quic-Ladder RL15-2-6	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-6220	-- Cover - Aluminum w/End Flaps, Pumper/Tanker	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>		<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
<b>AUDIBLE WARNING DEVICES</b>		<b>1</b>	<b>FE</b>
<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>1</b>	<b>FE</b>
70-E2-2620	-- Light - 12" LED Compartment, On Scene Access 73012	2	FE
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	4	FE
70-E2-8620	-- Light - 36" LED Compartment, On Scene Access 73036	2	FE
70-E4-0620	-- Light - 44" LED Compartment, On Scene Access 73044	2	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	1	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	1	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-M8-1720	-- Zone B/D Upper Body Side Front Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-P8-1020	-- Zone B/D Upper Body Side Rear Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
72-S6-2420	-- Zone C Upper Outboard Lights (4) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-1020	-- Lights (6) - LED Underbody, Whelen 20C0CDCD	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
74-Q2-0420	-- Brow Light Location - Front of Cab, Centered	1	FE
74-Q4-0620	-- Light - 12 Volt 75 Watt LED Brow, Whelen Pioneer Plus PFP1	1	FE
74-Q8-8020	-- Switch - Brow Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
74-R2-0820	-- Lights (2) - 12 Volt 75 Watt LED Semi Recessed, Whelen Pioneer Plus PFP1-PBA103	1	FE
74-R8-2020	-- Recessed Light Locations - Side of Body, Center	1	FE
74-R8-2220	-- Switch - Center Body Side Scene Light Activation, Cab Mounted	1	FE
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A6-1020	Warranty - Frame Corrosion "F"-Shield"	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE

PART NO	DESCRIPTION	QTY	ID
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps 5-Year Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220	- Strainer - 6" NH Barrel, Kocheck BS60C	1	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**INFERNO  
PUMPER**



## **MODEL: INFERNO PUMPER**

### **MID-RANGE CUSTOM PUMPER**

This apparatus is a heavy duty pumper that is mounted on our Inferno chassis. It is powered by a Cummins ISX12 500hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is provided with a steel bumper that is fabricated from 80,000 psi 10-1/2 x 3-1/2" x 0.375" steel channel material. This bumper provides superior protection against frontal and angled impacts. The extended front bumper also includes the air horns and electronic siren speaker.

The apparatus is equipped with aluminum wheels for all six (6) wheels.

The 100" wide cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Inferno cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This apparatus body has a 1000 gallon water tank, rescue style compartments on the left side and low side compartments on the right side with the ground ladders above the compartments.

The body also has wheel well storage for four (4) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1500 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows. There is also a triple crosslay allowing for two (1) 1-3/4" lines and one (1) 2-1/2" line.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Inferno Pumper

Quote No: 61209-0002

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	300	FE
00-B2-0420	Custom XD Full Tilt Cab - INFERNO	1	FE
<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-1020	-- Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1420	-- Tow Hooks - Chrome, Below the Bumper	1	FE
02-C4-1420	-- Front Bumper Extension - 18"	1	FE
02-D2-0220	-- Gravelshield - Front Bumper Extension	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-A2-0820	-- Front Axle - 22,500 Pounds, Meritor MFS-20	1	FE

PART NO	DESCRIPTION	QTY	ID
02-A2-0220	-- Wheelbase - Less than 209"	1	FE
02-A4-0220	-- Framerrail - Single	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0620	-- Steering System - TRW, Over 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-1020	-- Front Suspension - 22,500 Pounds, Parabolic	1	FE
04-C2-0220	-- Front Brakes - S-Cam, 16-1/2" x 6"	1	FE
04-C4-0220	-- Cramp Angle - 41 Degrees	1	FE
04-D2-1020	-- Front Tires - Goodyear 425/65R22.5 "L" G296 MSA 22,500 Pounds	1	FE
04-E2-2820	-- Front Wheels - Aluminum (425 Tires)	1	FE
04-E4-0220	-- Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-G2-0620	-- Rear Axle - 27,000 Pounds, Meritor RS-26-185	1	FE
04-K2-8020	-- Rear Suspension - 27,000 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0820	-- Vehicle Top Speed: 65-68 MPH	1	FE
04-P2-0220	-- Rear Brakes - S-Cam 16-1/2" x 7"	1	FE
04-R2-0820	-- Rear Tires - Goodyear 12R22.5 "H" G622 RSD 27,000 Pounds	1	FE
04-S2-2020	-- Rear Wheels - Aluminum (11R/12R Tires)	1	FE
04-T2-0220	-- Wheel Trim - Rear, Lincoln Hats	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
<b>AIR BRAKE SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
<b>ENGINES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
08-A4-0620	-- Engine - 500 HP, Cummins ISX12 (EPA 2013)	1	FE
<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
10-A2-1220	-- Transmission - Allison 4000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0420	-- Driveline - 1810 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0420	-- Engine Brake - Cummins ISX Engine	1	FE
<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISX</b>		<b>1</b>	<b>FE</b>
08-C2-0220	-- Cooling System - Cummins Engine	1	FE

PART NO	DESCRIPTION	QTY	ID
08-C2-1220	-- Cooling System Fan - Cummins ISX	1	FE
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4020	-- Coolant Hoses - Silicone	1	FE
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISX</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0420	-- Valve - Fuel Shutoff	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-J4-2420	-- Fuel Water Separator - Racor 3150R	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filer/SCR	1	FE
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-D2-0620	-- Alternator - 320 AMP, Leece Neville 178-131-100	1	FE
08-E2-0420	-- Battery System - 4 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-2020	-- Covers - Battery Box, Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6220	-- Termination Point - Battery Box	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-E8-0620	-- Battery Charger - Auto Charge 1200, Kussmaul 091-187-12-REMOTE	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmaul 091-199-01	1	FE
10-J6-0420	-- DEF System w/5 Gallon Tank - Left Side Pump Module	1	FE
<b>CAB CONFIGURATIONS - INFERNO XD - SMFD thru XLFD</b>		<b>1</b>	<b>FE</b>
12-E8-1820	-- Custom XD 100" XMFD Cab w/8" Raised Roof (Raised Dog House)	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
14-P2-0220	-- Front Cab Circulation Fans (2)	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom SCBA	1	FE
16-E6-4420	-- Brackets (2) - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-A2-0220	-- Front Grille - Cast Aluminum	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0420	-- Cab Mirrors - Heated/Remote, FFA West Coast Style	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
14-H4-2220	-- Interior Trim - Mounting Plate, Engine Tunnel	1	FE
14-H4-2420	-- Interior Trim - Mounting Plate, Raised Engine Tunnel Section	1	FE
<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>		<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
<b>CUSTOM CAB - ACCESSORIES</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
16-M2-0820	-- Fuse Block - 12-Volt 6-Place, Blue Sea 5025	1	FE
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420	-- 12-Volt Power Outlet - Cab Mounted	2	FE
16-M2-6620	-- Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-2420	-- Light - Open Door w/Alarm, Whelen TIR3 LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-0220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-C4-0220	Pump Panels - Black Anodized Aluminum	1	FE

PART NO	DESCRIPTION	QTY	ID
20-C6-1020	Pump Panel - Fully Hinged, Right Side	1	FE
20-C6-2020	Front Pump Module Access Panel	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F4-2020	Running Board - Slotted Aluminum, Left Side	1	FE
20-F4-4020	-- Running Board - Slotted Aluminum, Right Side	1	FE
20-G2-0220	Handrails (2) - Above Pump Panel, 12" Knurled Aluminum	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-M2-0220	-- Anodes - Pump Corrosion (Each)	2	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-1820	-- Certification - U.L. 1500 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4020	-- Suction Header - 6" w/Long Handle Cap, Left Side	1	FE
24-B2-4020	-- Suction Header - 6" w/Long Handle Cap, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-0420	-- Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-0820	-- Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Push-Pull</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-D2-0820	-- Crosslay No. 1 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D4-0820	-- Crosslay No. 2 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D6-4220	-- Crosslay No. 3 - Double Lay, 2-1/2" Valve w/Push Pull Control	1	FE
28-D8-0420	-- Dividers - Crosslays (2)	1	FE
28-D8-0820	-- Cover - Hypalon, Crosslays	1	FE
28-D8-2020	-- Cover - End Flaps w/Snaps, Crosslays (2)	1	FE
28-D8-6020	-- Cover Color: Red	1	FE
28-H8-0220	-- Discharge - LPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE

PART NO	DESCRIPTION	QTY	ID
28-J8-0220	-- Discharge - LPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-M2-2220	-- Discharge - RPF, 3" Akron Valve w/Handwheel Control	1	FE
28-P6-0220	-- Discharge - RPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-Q6-0420	-- Discharge - Deck Gun, 3" Akron Valve w/Handwheel Control	1	FE
28-V6-0220	-- Discharge - Left Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-W6-0220	-- Discharge - Right Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
32-C2-2020	Water Tank - Polypropylene, 1000 Gallons (T)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A2-1020	-- Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6020	-- Body/Compartment Construction - 96" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D4-0220	-- Compartments- Left Side, Rescue Style (43/50/36 w/64" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	3	FE
52-F4-1020	-- Compartments - Right Side, Low Side w/Hinged Doors (43/36)	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J8-0220	-- Compartment - Center Rear, Standard Height w/Hinged Door	1	FE
52-J8-2020	-- Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-8620	-- Rear Compartment Blouse	1	FE
52-J8-6020	-- Rear Body Construction - Beavertails	1	FE
60-A2-4820	Vertical Load Test - Body	1	FE
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-D2-0220	Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0220	-- Compartment - Wheel Well Single Air Bottle, Left Front	1	FE
64-B4-0220	-- Compartment - Wheel Well Single Air Bottle, Left Rear	1	FE
64-B4-6020	-- Compartment - Wheel Well Single Air Bottle, Right Front	1	FE
64-B6-6020	-- Compartment - Wheel Well Single Air Bottle, Right Rear	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0620	-- Step - 20" Rear, Slotted Aluminum	1	FE
66-A4-4420	-- Step - Chrome Folding, Front of Body	2	FE
66-A4-6820	-- Steps (4) - LED Lighted, Rear	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-4220	-- Cover - Hose Bed, Hypalon	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
	<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>	<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
	<b>AUDIBLE WARNING DEVICES</b>	<b>1</b>	<b>FE</b>
	<b>INTERIOR COMPARTMENT LIGHTING</b>	<b>1</b>	<b>FE</b>
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	8	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	4	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	6	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-R8-4020	-- Zone C Upper Lights (2) - Red LED Beacons, Whelen B6TMRR1P	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
	<b>REAR DIRECTIONAL LIGHTING</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>	<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
74-L0-0220	-- Lights (2) - 6" Halogen Deck, Unity	1	FE
74-L0-2220	-- Lights - LED Clearance and Marker, Whelen OS	1	FE
74-L2-0420	-- Lights (6) - Halogen Underbody	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
	<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A6-1020	Warranty - Frame Corrosion "F"-Shield"	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE

PART NO	DESCRIPTION	QTY	ID
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Year Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-A2-0220	Equipment Package - NFPA 1901 2009, Fire Department Supplied	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kocheck BS60C	1	FE
92-C4-0220	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0	2	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**IGNITER  
PUMPER**



## **MODEL: IGNITER PUMPER**

### **MID-RANGE CUSTOM PUMPER**

This apparatus is a heavy duty pumper that is mounted on our Igniter chassis. It is powered by a Cummins ISL9 450hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is provided with a steel bumper that is fabricated from 80,000 psi 10-1/2 x 3-1/2" x 0.375" steel channel material. This bumper provides superior protection against frontal and angled impacts. The extended front bumper also includes the air horns and electronic siren speaker.

The apparatus is equipped with aluminum wheels for all six (6) wheels.

The 100" wide cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Igniter cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This apparatus body has a 1000 gallon water tank, rescue style compartments on the left side and low side compartments on the right side with the ground ladders above the compartments.

The body also has wheel well storage for four (4) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1500 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows. There is also a triple crosslay allowing for two (1) 1-3/4" lines and one (1) 2-1/2" line.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Igniter Pumper

Quote No: 61209-0001

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	1	FE
00-A2-0420	Custom XD Full Tilt Cab - IGNITER	1	FE
	<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
	<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
02-B2-1020	-- Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1420	-- Tow Hooks - Chrome, Below the Bumper	1	FE
02-C4-1420	-- Front Bumper Extension - 18"	1	FE
02-D2-0220	-- Gravelshield - Front Bumper Extension	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
	<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
04-A2-0420	-- Front Axle - 20,000 Pounds, Meritor MFS-20	1	FE

PART NO	DESCRIPTION	QTY	ID
02-A2-0220	-- Wheelbase - Less than 209"	1	FE
02-A4-0220	-- Framerail - Single	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0420	-- Steering System - TRW, 20,000 to 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-0420	-- Front Suspension - 20,000 Pounds, Parabolic	1	FE
04-C2-0220	-- Front Brakes - S-Cam, 16-1/2" x 6"	1	FE
04-C4-0620	-- Cramp Angle - 43 Degrees	1	FE
04-D2-0620	-- Front Tires - Goodyear 385/65R22.5 "J" G296 MSA 20,000 Pounds	1	FE
04-E2-2420	-- Front Wheels - Aluminum (385 Tires)	1	FE
04-E4-0220	-- Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
	<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
04-G2-0420	-- Rear Axle - 27,000 Pounds, Meritor RS-25-160	1	FE
04-K2-8020	-- Rear Suspension - 27,000 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0820	-- Vehicle Top Speed: 65-68 MPH	1	FE
04-P2-0220	-- Rear Brakes - S-Cam 16-1/2" x 7"	1	FE
04-R2-0820	-- Rear Tires - Goodyear 12R22.5 "H" G622 RSD 27,000 Pounds	1	FE
04-S2-2020	-- Rear Wheels - Aluminum (11R/12R Tires)	1	FE
04-T2-0220	-- Wheel Trim - Rear, Lincoln Hats	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
	<b>AIR BRAKE SYSTEM / COMPONENTS</b>	<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
	<b>ENGINES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
08-A2-1020	-- Engine - 450 HP, Cummins ISL9 (EPA 2013)	1	FE
	<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
10-A2-0220	-- Transmission - Allison 3000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220	-- Driveline - 1710 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0620	-- Engine Brake - Cummins ISL Engine	1	FE
	<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISL</b>	<b>1</b>	<b>FE</b>
08-C2-0220	-- Cooling System - Cummins Engine	1	FE
08-C2-1420	-- Cooling System Fan - Cummins ISL	1	FE

PART NO	DESCRIPTION	QTY	ID
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4020	-- Coolant Hoses - Silicone	1	FE
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISL</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filter/SCR	1	FE
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-D2-0620	-- Alternator - 320 AMP, Leece Neville 178-131-100	1	FE
08-E2-0420	-- Battery System - 4 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-2020	-- Covers - Battery Box, Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6620	-- Termination Point - Driver's Step Area	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-E8-0620	-- Battery Charger - Auto Charge 1200, Kussmaul 091-187-12-REMOTE	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmaul 091-199-01	1	FE
10-J6-0420	-- DEF System w/5 Gallon Tank - Left Side Pump Module	1	FE
<b>CAB CONFIGURATIONS - IGNITER XD - SMFD thru XLFD</b>		<b>1</b>	<b>FE</b>
12-C6-1020	-- Custom XD 100" MFD Cab w/8" Raised Roof	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
14-P2-0220	-- Front Cab Circulation Fans (2)	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE

PART NO	DESCRIPTION	QTY	ID
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom SCBA	1	FE
16-E6-4420	-- Brackets (2) - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-A2-0220	-- Front Grille - Cast Aluminum	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0420	-- Cab Mirrors - Heated/Remote, FFA West Coast Style	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
14-H4-2220	-- Interior Trim - Mounting Plate, Engine Tunnel	1	FE
<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>		<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
<b>CUSTOM CAB - ACCESSORIES</b>		<b>1</b>	<b>FE</b>
16-M2-0820	-- Fuse Block - 12-Volt 6-Place, Blue Sea 5025	1	FE
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE

PART NO	DESCRIPTION	QTY	ID
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-2420	-- Light - Open Door w/Alarm, Whelen TIR3 LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-0220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-C4-0220	Pump Panels - Black Anodized Aluminum	1	FE
20-C6-1020	Pump Panel - Fully Hinged, Right Side	1	FE
20-C6-2020	Front Pump Module Access Panel	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE

PART NO	DESCRIPTION	QTY	ID
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F4-2020	Running Board - Slotted Aluminum, Left Side	1	FE
20-F4-4020	-- Running Board - Slotted Aluminum, Right Side	1	FE
20-G2-0220	Handrails (2) - Above Pump Panel, 12" Knurled Aluminum	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-M2-0220	-- Anodes - Pump Corrosion (Each)	2	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-1820	-- Certification - U.L. 1500 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4020	-- Suction Header - 6" w/Long Handle Cap, Left Side	1	FE
24-B2-4020	-- Suction Header - 6" w/Long Handle Cap, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-0420	-- Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-0820	-- Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Push-Pull</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-D2-0820	-- Crosslay No. 1 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D4-0820	-- Crosslay No. 2 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D6-4220	-- Crosslay No. 3 - Double Lay, 2-1/2" Valve w/Push Pull Control	1	FE
28-D8-0420	-- Dividers - Crosslays (2)	1	FE
28-D8-0820	-- Cover - Hypalon, Crosslays	1	FE
28-D8-2020	-- Cover - End Flaps w/Snaps, Crosslays (2)	1	FE
28-D8-6020	-- Cover Color: Red	1	FE
28-H8-0220	-- Discharge - LPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-J8-0220	-- Discharge - LPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-M2-2220	-- Discharge - RPF, 3" Akron Valve w/Handwheel Control	1	FE
28-P6-0220	-- Discharge - RPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-Q6-0420	-- Discharge - Deck Gun, 3" Akron Valve w/Handwheel Control	1	FE

PART NO	DESCRIPTION	QTY	ID
28-V6-0220	-- Discharge - Left Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-W6-0220	-- Discharge - Right Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
32-C2-2020	Water Tank - Polypropylene, 1000 Gallons (T)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A2-1020	-- Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6020	-- Body/Compartment Construction - 96" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D4-0220	-- Compartments- Left Side, Rescue Style (43/50/36 w/64" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	3	FE
52-F4-1020	-- Compartments - Right Side, Low Side w/Hinged Doors (43/36)	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J8-0220	-- Compartment - Center Rear, Standard Height w/Hinged Door	1	FE
52-J8-2020	-- Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-8620	-- Rear Compartment Blouse	1	FE
52-J8-6020	-- Rear Body Construction - Beavertails	1	FE
60-A2-4820	Vertical Load Test - Body	1	FE
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-D2-0220	Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0220	-- Compartment - Wheel Well Single Air Bottle, Left Front	1	FE
64-B4-0220	-- Compartment - Wheel Well Single Air Bottle, Left Rear	1	FE
64-B4-6020	-- Compartment - Wheel Well Single Air Bottle, Right Front	1	FE
64-B6-6020	-- Compartment - Wheel Well Single Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0620	-- Step - 20" Rear, Slotted Aluminum	1	FE
66-A4-4420	-- Step - Chrome Folding, Front of Body	2	FE
66-A4-6820	-- Steps (4) - LED Lighted, Rear	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-4220	-- Cover - Hose Bed, Hypalon	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>		<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
<b>AUDIBLE WARNING DEVICES</b>		<b>1</b>	<b>FE</b>
<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>1</b>	<b>FE</b>
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	8	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	4	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	6	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-R8-4020	-- Zone C Upper Lights (2) - Red LED Beacons, Whelen B6TMRR1P	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
74-L0-0220	-- Lights (2) - 6" Halogen Deck, Unity	1	FE
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-0420	-- Lights (6) - Halogen Underbody	1	FE

PART NO	DESCRIPTION	QTY	ID
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
	<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A6-1020	Warranty - Frame Corrosion "F"-Shield"	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Year Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE

PART NO	DESCRIPTION	QTY	ID
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-A2-0220	Equipment Package - NFPA 1901 2009, Fire Department Supplied	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kocheck BS60C	1	FE
92-C4-0220	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0	2	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**CINDER  
PUMPER**



## **MODEL: CINDER PUMPER**

### **MID-RANGE CUSTOM PUMPER**

This apparatus is a heavy duty pumper that is mounted on our Cinder chassis. It is powered by a Cummins ISL9 450hp engine.

We manufacture our chassis with stronger frame rails than many other builders and because this apparatus will be operating in the harsh winter environment we protect the completed frame assembly with an encapsulation to protect against corrosion of the frame assembly. Corrosion is one of the leading major expenses in keeping apparatus in service for 15 or more years. Our use of this F-Shield product provides the fire department with a limited lifetime warranty against corrosion of the completed frame assembly. We also provide this coverage on the fuel tank and air tanks and attach them to the frame with stainless fasteners and mounting straps.

The extended front bumper is 12" polished stainless steel. The extended front bumper also includes the air horns and electronic siren speaker.

The 96" wide cab is constructed of marine grade aluminum to help prevent corrosion in the harsh winter climates. The roll cage design does not require any supports posts in the interior of the cab, allowing for an unobstructed view from the rear of the cab looking forward.

The cab was tested to exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test consisted of an impact load test and a vertical load test to the cab. A frontal impact test was done via a pendulum with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum was a minimum of 18.2 mph. The cab doors remained closed during the impact test but were able to open after the impact. There was no passenger compartment intrusion or any structural component failures. In conjunction with the frontal impact test, a vertical load test was implemented to the cab. The cab roof was loaded with a minimum of 65,979 lbs. (29.53 metric tons). There was no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure.

Cinder cabs are equipped with power windows and full length doors. The cab doors are constructed from 3/16" outer skins with a 1/8" inner skin to provide for superior protection of the firefighters.

The high capacity air conditioning/heating system for the crew area is mounted below the forward facing seats and runs up a plenum on the rear wall and is distributed through vents on the ceiling. This leaves the doghouse clear for the mounting of fire department equipment such as portable radios, handlights, and other items such as thermal imaging cameras. Separate heat and air conditioning units are mounted in the dash to provide heat through defroster vents onto the windshield and heat and air conditioning through dash and floor vents.

Our dash is constructed of all aluminum without any ABS formed plastic. There are easy access panels provided to minimize the time required when performing service on dash components.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This apparatus body has a 1000 gallon water tank, rescue style compartments on the left side and low side compartments on the right side with the ground ladders above the compartments.

The body also has wheel well storage for four (4) spare SCBA bottles or fire extinguishers in the rear wheel wells.

All compartments are provided with LED strip lighting. Compartments more than 36" wide are provided with two (2) lights to ensure personnel can see the contents of the entire compartment.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1500 GPM. In addition to the standard 2-1/2" discharges we have provided a 3" discharge with a Storz elbow on right side panel that is handwheel controlled. This allows for better control of the valve when regulating large flows. There is also a triple crosslay allowing for two (1) 1-3/4" lines and one (1) 2-1/2" line.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Lifetime frame members
- Lifetime frame against corrosion
- Five (5) years on the Hale pump

- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
Heidi Anderson  
Metropolitan Area Planning Council  
60 Temple Place 6th Floor Reception  
Boston, MA 02111  
handerson@mapc.org

Cinder Pumper

Quote No: 61209-0003

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0620	Principal Dimensions	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	300	FE
00-D2-0220	Custom XD Full Tilt Cab - CINDER	1	FE
<b>WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-0220	-- Front Bumper - 12" High, Polished Stainless Steel	1	FE
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-A6-1620	-- Tow Hooks - Painted, Below the Bumper	1	FE
02-C4-2220	-- Front Bumper Extension - 24"	1	FE
02-D2-0220	-- Gravelshield - Front Bumper Extension	1	FE
02-P2-0420	-- Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020	-- Air Horn - DS Thru Bumper (P6)	1	FE
02-R2-1420	-- Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420	-- Siren Speaker - Cast Product 100	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
<b>FRONT AXLES / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
04-A2-0420	-- Front Axle - 20,000 Pounds, Meritor MFS-20	1	FE

PART NO	DESCRIPTION	QTY	ID
02-A2-0220	-- Wheelbase - Less than 209"	1	FE
02-A4-0220	-- Framerail - Single	1	FE
02-A4-2420	-- Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620	-- "F-Shield" Color: Black	1	FE
04-A6-0420	-- Steering System - TRW, 20,000 to 21,500 Pounds	1	FE
04-A8-0220	-- Chassis Alignment	1	FE
04-B2-0420	-- Front Suspension - 20,000 Pounds, Parabolic	1	FE
04-C2-0220	-- Front Brakes - S-Cam, 16-1/2" x 6"	1	FE
04-C4-0620	-- Cramp Angle - 43 Degrees	1	FE
04-D2-0620	-- Front Tires - Goodyear 385/65R22.5 "J" G296 MSA 20,000 Pounds	1	FE
04-E2-0220	-- Front Wheels - Steel Disc	1	FE
04-E2-0420	-- Front Wheel Paint - Job Color	1	FE
04-E4-2020	-- Mud Flaps - Front	1	FE
	<b>SINGLE REAR AXLES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
04-G2-0420	-- Rear Axle - 27,000 Pounds, Meritor RS-25-160	1	FE
04-K2-8020	-- Rear Suspension - 27,000 Pounds, Spring	1	FE
04-M2-0220	-- Standard Differential - Single Axle	1	FE
04-M6-0820	-- Vehicle Top Speed: 65-68 MPH	1	FE
04-P2-0220	-- Rear Brakes - S-Cam 16-1/2" x 7"	1	FE
04-R2-0820	-- Rear Tires - Goodyear 12R22.5 "H" G622 RSD 27,000 Pounds	1	FE
04-S2-0220	-- Rear Wheels - Steel Disc	1	FE
04-S2-0620	-- Rear Wheel Paint - Job Color	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
	<b>AIR BRAKE SYSTEM / COMPONENTS</b>	<b>1</b>	<b>FE</b>
06-A2-0220	-- Harness and Hose Routing System	1	FE
06-A2-0420	-- Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020	-- Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020	-- ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-2020	-- Air Dryer - Bendix AD-9	1	FE
	<b>ENGINES / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
08-A2-1020	-- Engine - 450 HP, Cummins ISL9 (EPA 2013)	1	FE
	<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
10-A2-0220	-- Transmission - Allison 3000 EVS	1	FE
10-A4-0620	-- Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220	-- Driveline - 1710 Series	1	FE
10-H4-1820	-- Fire Pump Installation	1	FE
08-B2-0620	-- Engine Brake - Cummins ISL Engine	1	FE
	<b>ENGINE / COMPONENTS / COOLING SYSTEM - ISL</b>	<b>1</b>	<b>FE</b>
08-C2-0420	-- Cooling System - 1400 Square Inch Radiator	1	FE
08-C2-1420	-- Cooling System Fan - Cummins ISL	1	FE
08-C2-2620	-- Radiator Coolant - Extended Life	1	FE
08-C2-4220	-- Coolant Hoses - Premium Rubber	1	FE

PART NO	DESCRIPTION	QTY	ID
08-C2-4420	-- Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020	-- Auxiliary Engine Cooler	1	FE
<b>FUEL SYSTEM / COMPONENTS - ISL</b>		<b>1</b>	<b>FE</b>
10-J2-0220	-- Fuel Tank - 50 Gallon	1	FE
10-J4-0220	-- Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0420	-- Valve - Fuel Shutoff	1	FE
10-J4-0820	-- Fuel Filter - Cummins	1	FE
10-M2-0820	-- Exhaust System - EPA 13 Particulate Filer/SCR	1	FE
08-D2-0620	-- Alternator - 320 AMP, Leece Neville 178-131-100	1	FE
08-E2-0220	-- Battery System - 3 Group 31	1	FE
08-E4-0220	-- Battery Boxes - Stainless Steel	1	FE
08-E4-4220	-- Battery Jumper Studs	1	FE
08-E4-6620	-- Termination Point - Driver's Step Area	1	FE
08-E6-0220	-- Battery Master Load Disconnect	1	FE
08-E6-0420	-- Total System Manager w/High Idle - Class 1	1	FE
08-G2-2620	-- Receptacle - Battery Charging, Kussmaul VW-8 (15A/12V)	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G4-0220	-- Cover - Battery Charging Receptacle Yellow, Kussmaul 091-3YW	1	FE
10-J6-0820	-- DEF System w/5 Gallon Tank - Left Rear Under Cab	1	FE
10-J8-2020	-- DEF Fill w/Door - Left Crew Cab Extension	1	FE
<b>CAB CONFIGURATIONS - CINDER XD - SMFD thru LFD</b>		<b>1</b>	<b>FE</b>
12-H6-1420	-- Custom XD 96" XMFD Cab w/8" Raised Roof	1	FE
12-P2-1020	-- Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220	-- Cab Door Hinges - Concealed	1	FE
12-P6-0820	-- Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020	-- Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620	-- Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820	-- Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420	-- Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2020	-- Cab Tilt Electric Pump	1	FE
14-P2-1620	-- Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2420	-- A/C Condenser Housings: Black	1	FE
<b>CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS</b>		<b>1</b>	<b>FE</b>
16-A8-0620	-- Seat Material - Durawear	1	FE
16-A8-1220	-- Seat Color - Gray	1	FE
16-B4-0220	-- Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620	-- Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-B6-4020	-- Filler Panel For SCBA Seat	1	FE
16-C4-0420	-- Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE

PART NO	DESCRIPTION	QTY	ID
16-C8-6020	-- Filler Panel For SCBA Seat	1	FE
16-D4-0420	-- Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4420	-- Bracket - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-D8-6020	-- Filler Panel For SCBA Seat	1	FE
16-E4-1020	-- Seats (2) - Inboard Forward Facing Crew, Bostrom Tanker 450 Fixed Bottom SCBA	1	FE
16-E6-4420	-- Brackets (2) - Cab Seat SCBA, Bostrom SecureAll	1	FE
16-E8-6020	-- Filler Panels For SCBA Seat (2)	1	FE
	<b>CUSTOM CAB - EXTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-A2-0230	-- Front Grille - Stainless Steel	1	FE
14-A2-1420	-- Side Grilles w/Ember Separator - Notched Right Side	1	FE
14-A4-0620	-- Cab Mirrors - Heated/Remote, Velvac Stainless Steel	1	FE
14-A6-2020	-- Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
14-A6-8220	-- Exterior Trim - Tread Plate, Back of Cab	1	FE
	<b>CUSTOM CAB - INTERIOR TRIM COMPONENTS</b>	<b>1</b>	<b>FE</b>
14-G2-1020	-- Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220	-- Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220	-- Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G4-6420	-- Interior Trim - Sprayed Aluminum, Rear Wall	1	FE
14-G6-0420	-- Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020	-- Interior Trim - Officer's Dash, Glove Box	1	FE
14-G6-6020	-- Interior Trim - Sun Visors (3)	1	FE
14-H2-0820	-- Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220	-- Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220	-- Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
	<b>CUSTOM CAB - INSTRUMENTS AND CONTROLS</b>	<b>1</b>	<b>FE</b>
14-K2-0220	-- Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620	-- Driver's Information Display Panel	1	FE
14-K2-0820	-- Chassis Electrical System - Standard Wiring	1	FE
14-K2-2020	-- Doghouse Mounted Switch Panel	1	FE
14-K2-8220	-- Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420	-- Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020	-- Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
	<b>CUSTOM CAB - ACCESSORIES</b>	<b>1</b>	<b>FE</b>
16-M2-1420	-- 12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-2920	-- Radio Antenna Mount - MNO	1	FE
16-M2-4220	-- Radio 12-Volt Power Circuit (Center Dash)	1	FE
16-M2-6020	-- 12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420	-- 12-Volt Power Outlet - Cab Mounted	2	FE
16-M2-6620	-- Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620	-- Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620	-- Electric Horn - Single	1	FE
16-M6-2020	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE

PART NO	DESCRIPTION	QTY	ID
<b>CUSTOM CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-0220	-- Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-6020	-- Light - Open Door, Whelen OS LED	1	FE
16-P4-0220	-- Lights (4) - Step Well, Whelen OS LED	1	FE
16-R4-0420	-- Lights (2) - Engine Maintenance, LED	1	FE
<b>CUSTOM CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-A2-0220	-- Front Cab Lighting - LED	1	FE
18-A4-0220	-- Headlights - Halogen	1	FE
18-A6-0420	-- Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220	-- Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020	-- Lights - Corning, LED	1	FE
18-A6-6220	-- Lights - DOT, LED	1	FE
18-B4-0420	-- Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>CUSTOM CAB - EXTERIOR PAINT FINISH</b>		<b>1</b>	<b>FE</b>
12-T2-0220	-- Paint - Custom Cab, Single Color	1	FE
12-T6-0220	-- Primary/Lower Cab Paint Finish	1	FE
12-T6-0620	-- Primary/Lower Paint Color/Code: Red 854008	1	FE
14-H4-2220	Interior Trim - Mounting Plate, Engine Tunnel	1	FE
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2820	-- Plate - Seating Capacity 6 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-0220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-C4-0220	Pump Panels - Black Anodized Aluminum	1	FE
20-C6-1020	Pump Panel - Fully Hinged, Right Side	1	FE
20-C6-2020	Front Pump Module Access Panel	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F4-2020	Running Board - Slotted Aluminum, Left Side	1	FE
20-F4-4020	-- Running Board - Slotted Aluminum, Right Side	1	FE
20-G2-0220	Handrails (2) - Above Pump Panel, 12" Knurled Aluminum	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE

PART NO	DESCRIPTION	QTY	ID
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-M2-0220	-- Anodes - Pump Corrosion (Each)	2	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-1820	-- Certification - U.L. 1500 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4020	-- Suction Header - 6" w/Long Handle Cap, Left Side	1	FE
24-B2-4020	-- Suction Header - 6" w/Long Handle Cap, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
20-J4-1620	-- Pressure Governor - FRC Pump Boss PBA400-A00	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
32-E2-2020	-- Return Line - Fill Subsurface	1	FE
24-R2-0420	-- Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-0820	-- Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Push-Pull</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-D2-0820	-- Crosslay No. 1 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D4-0820	-- Crosslay No. 2 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D6-4220	-- Crosslay No. 3 - Double Lay, 2-1/2" Valve w/Push Pull Control	1	FE
28-D8-0420	-- Dividers - Crosslays (2)	1	FE
28-D8-0820	-- Cover - Hypalon, Crosslays	1	FE
28-D8-2020	-- Cover - End Flaps w/Snaps, Crosslays (2)	1	FE
28-D8-6020	-- Cover Color: Red	1	FE
28-H8-0220	-- Discharge - LPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-J8-0220	-- Discharge - LPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-M2-2220	-- Discharge - RPF, 3" Akron Valve w/Handwheel Control	1	FE
28-P6-0220	-- Discharge - RPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-Q6-0420	-- Discharge - Deck Gun, 3" Akron Valve w/Handwheel Control	1	FE
28-V6-0220	-- Discharge - Left Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-W6-0220	-- Discharge - Right Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
	<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
32-C2-2020	Water Tank - Polypropylene, 1000 Gallons (T)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE

PART NO	DESCRIPTION	QTY	ID
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A2-1020	-- Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6020	-- Body/Compartment Construction - 96" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D4-0220	-- Compartments- Left Side, Rescue Style (43/50/36 w/64" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	3	FE
52-F4-1020	-- Compartments - Right Side, Low Side w/Hinged Doors (43/36)	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J8-0220	-- Compartment - Center Rear, Standard Height w/Hinged Door	1	FE
52-J8-2020	-- Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-8620	-- Rear Compartment Blouse	1	FE
52-J8-6020	-- Rear Body Construction - Beavertails	1	FE
60-A2-4820	Vertical Load Test - Body	1	FE
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-D2-0220	Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0220	-- Compartment - Wheel Well Single Air Bottle, Left Front	1	FE
64-B4-0220	-- Compartment - Wheel Well Single Air Bottle, Left Rear	1	FE
64-B4-6020	-- Compartment - Wheel Well Single Air Bottle, Right Front	1	FE
64-B6-6020	-- Compartment - Wheel Well Single Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-2420	-- Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0620	-- Step - 20" Rear, Slotted Aluminum	1	FE
66-A4-4420	-- Step - Chrome Folding, Front of Body	2	FE
66-A4-6820	-- Steps (4) - LED Lighted, Rear	1	FE

PART NO	DESCRIPTION	QTY	ID
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-4220	-- Cover - Hose Bed, Hypalon	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>		<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
<b>AUDIBLE WARNING DEVICES</b>		<b>1</b>	<b>FE</b>
<b>INTERIOR COMPARTMENT LIGHTING</b>		<b>1</b>	<b>FE</b>
70-E2-6220	-- Light - 24" LED Compartment, On Scene Access 73024	8	FE
70-E4-2220	-- Light - 56" LED Compartment, On Scene Access 73056	4	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	6	FE
72-G8-4820	-- Zone A Upper Light Bar - 72" LED, Whelen FN72QLED	1	FE
72-R8-4020	-- Zone C Upper Lights (2) - Red LED Beacons, Whelen B6TMRR1P	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0820	-- Stop/Turn/Reverse Lights - LED, Whelen 600	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
74-L0-0220	-- Lights (2) - 6" Halogen Deck, Unity	1	FE
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-0420	-- Lights (6) - Halogen Underbody	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>		<b>1</b>	<b>FE</b>
<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>GENERATORS</b>	<b>1</b>	<b>FE</b>
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0420	Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210	Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210	Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A6-1020	Warranty - Frame Corrosion "F"-Shield"	1	FE
98-A8-0220	Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420	Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220	Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420	Warranty - Allison Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620	Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Year Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220	Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220	Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6220	Wiring Diagrams - Cab/Chassis, AS BUILT	1	FE
98-B2-6820	Wiring Diagrams - Apparatus Body, AS BUILT	1	FE
90-A2-0220	Equipment Package - NFPA 1901 2009, Fire Department Supplied	1	FE

PART NO	DESCRIPTION	QTY	ID
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kocheck 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kocheck BS60C	1	FE
92-C4-0220	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0	2	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-1500	Service -- SVI	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**FREIGHTLINER 2-DOOR  
COMMERCIAL  
PUMPER**



## **MODEL: FREIGHTLINER 2 DOOR COMMERCIAL PUMPER**

### **BASIC COMMERCIAL PUMPER**

This apparatus is a heavy duty pumper that is mounted on a 2 door Freightliner M2-106 commercial chassis. It is powered by a Cummins ISL 350hp engine.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This apparatus body has a 1000 gallon water tank, rescue style compartments on the left side and low side compartments on the right side with the ground ladders above the compartments.

The body also has wheel well storage for four (4) spare SCBA bottles or fire extinguishers in the rear wheel wells.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1500 GPM. The pump is provided with two (2) 2-1/2" discharges on each side of the pump house, two (2) on the rear of the body. There is also a double crosslay allowing for two (1) 1-3/4" lines.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Freightliner 2 Door Commercial Pumper

Quote No: 61206-0004

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	270	FE
<b>COMMERCIAL CHASSIS - 2 DOOR CAB, PUMPER</b>		<b>1</b>	<b>FE</b>
00-G4-0220	-- CHASSIS - Freightliner M2-106 (36K GVW/2-Door/350 Engine)	1	FE
06-A8-0220	Tilt Table Testing	1	FE
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-P4-1020	-- Air Horns (2) - Fender Mounted Driver/Passenger's Side	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
02-R4-6620	-- Siren Speaker - CPI SAD-4318 (Driver's Side)	1	FE
<b>SINGLE AXLE / TIRES / WHEELS / COMMERCIAL</b>		<b>1</b>	<b>FE</b>
04-E4-2020	-- Mud Flaps - Front	1	FE
04-S4-0220	-- Valve Stem Extensions (4)	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
<b>AIR BRAKE SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE

PART NO	DESCRIPTION	QTY	ID
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-E8-0420	-- Battery Charger - Auto Charge 1000, Kussmual 091-215-12	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmual 091-199-01	1	FE
<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
10-A2-6020	-- Transmission Lock-Up - EVS3000	1	FE
10-H4-1820	Fire Pump Installation	1	FE
<b>EXHAUST SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
10-M2-0620	-- Exhaust System - Run to Front of Right Rear Wheels	1	FE
<b>COMMERCIAL CAB - EXTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-E4-0620	-- Exterior Trim - Deluxe Chassis Trim (2 Door Cab)	1	FE
<b>COMMERCIAL CAB - INTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-J4-0220	-- Interior Trim - Lower Door Panels Reflective Material (2 Door Cab)	1	FE
<b>COMMERCIAL CAB - INSTRUMENTS AND CONTROLS</b>		<b>1</b>	<b>FE</b>
14-K6-1020	-- Light - Battery On Indicator	1	FE
14-K6-1220	-- Light - Ignition On Indicator	1	FE
14-K6-2220	-- Switch - Master Load Disconnect	1	FE
14-K6-4420	-- Load Manager /with High Idle	1	FE
14-K6-4620	-- Switch Panel - 6 Position	1	FE
16-A6-6020	-- Vehicle Data Recorder (VDR)	1	FE
16-M4-2420	-- Electronic Siren - Whelen 295SLSA1	1	FE
<b>COMMERCIAL CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-6220	-- Light - Open Door, LED	1	FE
16-R4-0220	-- Lights (2) - Engine Maintenance, Halogen	1	FE
<b>COMMERCIAL CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-D2-1020	-- Lights - Cab Ground, Halogen (2 Door Cab)	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2220	-- Plate - Seating Capacity 3 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-0220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-C4-0220	Pump Panels - Black Anodized Aluminum	1	FE
20-C6-1020	Pump Panel - Fully Hinged, Right Side	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F4-2020	Running Board - Slotted Aluminum, Left Side	1	FE
20-F4-4020	-- Running Board - Slotted Aluminum, Right Side	1	FE
20-G2-0220	Handrails (2) - Above Pump Panel, 12" Knurled Aluminum	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-1820	-- Certification - U.L. 1500 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4020	-- Suction Header - 6" w/Long Handle Cap, Left Side	1	FE
24-B2-4020	-- Suction Header - 6" w/Long Handle Cap, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
24-K2-0420	-- Valve - Pressure Relief, Hale QG	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
20-M2-4020	-- Vernier Engine Throttle - Pump Panel Mounted	1	FE
20-P2-0220	-- NFPA Pump Panel Gauges - Individual Group	1	FE
20-P2-0620	-- Gauge - Engine Oil Pressure, Pump Panel	1	FE
20-P2-0820	-- Gauge - Engine Coolant Temperature, Pump Panel	1	FE
20-P2-1420	-- Gauge - Tachometer, Pump Panel	1	FE
20-P2-1820	-- Gauge - Voltmeter, Pump Panel	1	FE
20-P2-4020	-- Oil Pressure/Water Temperature Audible Alarm	1	FE
24-R2-0420	-- Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-0820	-- Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE

PART NO	DESCRIPTION	QTY	ID
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
	<b>VALVE PACKAGE - AKRON - Controls Push-Pull</b>	<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-D2-0820	-- Crosslay No. 1 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D4-0820	-- Crosslay No. 2 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D8-0220	-- Divider - Crosslay	1	FE
28-D8-0820	-- Cover - Hypalon, Crosslays	1	FE
28-D8-2020	-- Cover - End Flaps w/Snaps, Crosslays (2)	1	FE
28-D8-6020	-- Cover Color: Red	1	FE
28-H8-0220	-- Discharge - LPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-J8-0220	-- Discharge - LPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-M2-0220	-- Discharge - RPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-P6-0220	-- Discharge - RPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-V6-0220	-- Discharge - Left Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-W6-0220	-- Discharge - Right Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
	<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
32-C2-2020	Water Tank - Polypropylene, 1000 Gallons (T)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A2-1020	-- Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6020	-- Body/Compartment Construction - 96" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D4-0220	-- Compartments- Left Side, Rescue Style (43/50/36 w/64" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	3	FE
52-F2-4620	-- Door Extension - Paddle Latch	3	FE
52-F4-1020	-- Compartments - Right Side, Low Side w/Hinged Doors (43/36)	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J8-0220	-- Compartment - Center Rear, Standard Height w/Hinged Door	1	FE
52-J8-2020	-- Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-2620	-- Door Extension - Paddle Latch	1	FE
52-J8-8620	-- Rear Compartment Blouse	1	FE
52-J8-6020	-- Rear Body Construction - Beavertails	1	FE
60-A2-4820	Vertical Load Test - Body	1	FE

PART NO	DESCRIPTION	QTY	ID
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-D2-0220	Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0220	-- Compartment - Wheel Well Single Air Bottle, Left Front	1	FE
64-B4-0220	-- Compartment - Wheel Well Single Air Bottle, Left Rear	1	FE
64-B4-6020	-- Compartment - Wheel Well Single Air Bottle, Right Front	1	FE
64-B6-6020	-- Compartment - Wheel Well Single Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0620	-- Step - 20" Rear, Slotted Aluminum	1	FE
66-A4-4420	-- Step - Chrome Folding, Front of Body	2	FE
66-A4-6820	-- Steps (4) - LED Lighted, Rear	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-4220	-- Cover - Hose Bed, Hypalon	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
	<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>	<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
	<b>AUDIBLE WARNING DEVICES</b>	<b>1</b>	<b>FE</b>
70-B2-0220	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
	<b>INTERIOR COMPARTMENT LIGHTING</b>	<b>1</b>	<b>FE</b>
70-D2-0220	-- Lights - 5" Diameter Halogen Compartment, Truck Lite 80351	1	FE

PART NO	DESCRIPTION	QTY	ID
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	1	FE
72-G8-4020	-- Zone A Upper Light Bar - 60" LED, Whelen FN60VLED	1	FE
72-R8-4020	-- Zone C Upper Lights (2) - Red LED Beacons, Whelen B6TMRR1P	1	FE
74-B8-2020	-- Zone A Lower Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0420	-- Stop/Turn LED /Reverse Halogen Lights - Whelen 600 Series	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
	<b>REAR DIRECTIONAL LIGHTING</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>	<b>1</b>	<b>FE</b>
74-L0-0220	-- Lights (2) - 6" Halogen Deck, Unity	1	FE
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-0420	-- Lights (6) - Halogen Underbody	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
	<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>	<b>1</b>	<b>FE</b>
	<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>	<b>1</b>	<b>FE</b>
80-B4-0420	-- Wheel Paint - Job Color w/Stripe	1	FE
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-C4-0220	-- Body Paint Color/Code: Red B8241EX	1	FE

PART NO	DESCRIPTION	QTY	ID
80-D2-1220	-- Interior Compartment Finish - Natural	1	FE
80-E2-0220	-- Stripe - Scotchlite, 4"	1	FE
80-E4-0420	-- Striping Color: White	1	FE
80-E4-8020	-- Striping Layout: Straight Down Cab/Body	1	FE
80-E8-0220	-- Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620	-- Chevron Striping Colors: 3M Red & Lime Green	1	FE
98-A2-0820	Warranty - Body Parts & Labor, 5-Year	1	FE
98-A2-1020	Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0420	Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0420	Warranty - Body Paint, 5-Year/100,000 Miles Non Pro-Rated	1	FE
98-A8-6020	Warranty - Hale Pumps, 5-Years Parts and Labor	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420	Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-1820	Manuals - Apparatus Body & Components	1	FE
98-B2-2020	Manuals - Pump	1	FE
98-B2-6020	Wiring Diagrams - Cab/Chassis, Standard	1	FE
98-B2-6620	Wiring Diagrams - Apparatus Body, Standard	1	FE
90-A2-0220	Equipment Package - NFPA 1901 2009, Fire Department Supplied	1	FE
90-C2-0420	Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420	Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020	Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-H8-0420	Hose (2) - PVC Flexible Suction, Kochek 10' x 6"	1	FE
90-K2-1220	-- Strainer - 6" NH Barrel, Kochek BS60C	1	FE
92-C4-0220	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0	2	FE
98-D6-0220	Promotional Items	1	FE
98-ZZ-8888	MAPC Fee	1	
	<b>DEALER ===== DEALER ===== DEALER</b>	<b>1</b>	<b>DLR</b>
00-10-0000	Service	1	DLR
80-05-1099	Lettering - SVI	1	DLR

**FREIGHTLINER 4-DOOR  
COMMERCIAL  
PUMPER**



## **MODEL: FREIGHTLINER 4 DOOR COMMERCIAL PUMPER**

### **MID-RANGE COMMERCIAL PUMPER**

This apparatus is a heavy duty pumper that is mounted on a 4 door Freightliner M2-106 commercial chassis. It is powered by a Cummins ISL 350hp engine.

Our apparatus body is constructed entirely from heavy duty aluminum extrusions and marine grade 5052 aluminum sheet. Compartment doors are constructed from 3/16" outer panel with a 1/8" inner panel that is welded to the outer panel. This provides for a true "slam" door designed to withstand the rugged use by firefighters.

This apparatus body has a 1000 gallon water tank, rescue style compartments on the left side and low side compartments on the right side with the ground ladders above the compartments.

The body also has wheel well storage for four (4) spare SCBA bottles or fire extinguishers in the rear wheel wells.

The apparatus is equipped with all LED warning lights

The fire pump is a Hale QMAX rated at 1500 GPM. The pump is provided with two (2) 2-1/2" discharges on each side of the pump house, two (2) on the rear of the body. There is also a double crosslay allowing for two (1) 1-3/4" lines.

Due to the winter conditions in Massachusetts, the pump panel will be provided with a removable heat pan and a 12 volt heater that utilizes water from the engine cooling system to help reduce freeze ups of components.

We cover this apparatus with extensive warranties including but not limited to:

- Two (2) year bumper to bumper mechanical including electrical
- Five (5) year non pro-rated paint warranty
- Five (5) years on the Hale pump
- Ten (10) years on the pump plumbing
- Five (5) years on the Cummins engine
- Five (5) year on the Allison transmission
- Lifetime on the water tank
- Ten (10) years on the cab and body structure

This apparatus meets all of the requirements and standards of Section 5.2 – Fire Apparatus and Emergency Vehicles.



QUOTATION

Fire Chiefs Association of Massachusetts  
 Heidi Anderson  
 Metropolitan Area Planning Council  
 60 Temple Place 6th Floor Reception  
 Boston, MA 02111  
 handerson@mapc.org

Freightliner 4 Door Commercial Pumper

Quote No: 61206-0002

PART NO	DESCRIPTION	QTY	ID
00-02-2420	Proposal Response (Pumper)	1	FE
00-06-0420	Payment Terms: Ferrara Standard	1	FE
00-10-0220	Performance Bond	1	FE
00-12-0220	Single Source Manufacturer	1	FE
00-12-0420	Manufacturer - Virtual	1	FE
00-12-0820	Certified Welders	1	FE
00-14-0220	Drawings - Proposal	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - Over the Road (Per Mile)	1	FE
00-18-1820	Delivery Time: Calendar Days	270	FE
<b>COMMERCIAL CHASSIS - 4 DOOR CAB PUMPER</b>		<b>1</b>	<b>FE</b>
00-G4-0820	-- CHASSIS - Freightliner M2-106 (36K GVW/4-Door/350 Engine)	1	FE
06-A8-0220	Tilt Table Testing	1	FE
<b>FRONT BUMPERS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
02-B2-8020	-- Bumper Diagram for Air Horn and Speaker Locations	1	FE
02-P4-1020	-- Air Horns (2) - Fender Mounted Driver/Passenger's Side	1	FE
02-P6-0620	-- Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
02-P8-0420	-- Air Horn Wiring - Active All Modes	1	FE
02-R4-6620	-- Siren Speaker - CPI SAD-4318 (Driver's Side)	1	FE
<b>SINGLE AXLE / TIRES / WHEELS / COMMERCIAL</b>		<b>1</b>	<b>FE</b>
04-E4-2020	-- Mud Flaps - Front	1	FE
04-S4-0220	-- Valve Stem Extensions (4)	1	FE
04-S6-1220	-- Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
<b>AIR BRAKE SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
06-B4-8020	-- Air Auto Eject - Kussmaul 091-28	1	FE
06-B8-0220	-- Cover - Air Auto Eject Yellow, Kussmaul 091-55YW	1	FE

PART NO	DESCRIPTION	QTY	ID
<b>ENGINE / COMPONENTS / CHARGING SYSTEMS</b>		<b>1</b>	<b>FE</b>
08-E8-0420	-- Battery Charger - Auto Charge 1000, Kussmaul 091-215-12	1	FE
08-G4-2020	-- Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
08-G6-0220	-- Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-8220	-- Plate - Shore Power Inlet	1	FE
08-G8-2020	-- Digital Display - Remote, Kussmaul 091-199-01	1	FE
<b>TRANSMISSION / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
10-A2-6020	-- Transmission Lock-Up - EVS3000	1	FE
10-H4-1820	Fire Pump Installation	1	FE
<b>EXHAUST SYSTEM / COMPONENTS</b>		<b>1</b>	<b>FE</b>
10-M2-0620	-- Exhaust System - Run to Front of Right Rear Wheels	1	FE
<b>COMMERCIAL CAB - EXTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-E4-0820	-- Exterior Trim - Deluxe Chassis Trim (4 Door Cab)	1	FE
<b>COMMERCIAL CAB - INTERIOR TRIM COMPONENTS</b>		<b>1</b>	<b>FE</b>
14-J4-0420	-- Interior Trim - Lower Door Panels Reflective Material (4 Door Cab)	1	FE
<b>COMMERCIAL CAB - INSTRUMENTS AND CONTROLS</b>		<b>1</b>	<b>FE</b>
14-K6-1020	-- Light - Battery On Indicator	1	FE
14-K6-1220	-- Light - Ignition On Indicator	1	FE
14-K6-2220	-- Switch - Master Load Disconnect	1	FE
14-K6-4420	-- Load Manager /with High Idle	1	FE
14-K6-4620	-- Switch Panel - 6 Position	1	FE
16-A6-6020	-- Vehicle Data Recorder (VDR)	1	FE
16-M4-2420	-- Electronic Siren - Whelen 295SLSA1	1	FE
<b>COMMERCIAL CAB - INTERIOR LIGHTING</b>		<b>1</b>	<b>FE</b>
16-P2-6220	-- Light - Open Door, LED	1	FE
16-R4-0220	-- Lights (2) - Engine Maintenance, Halogen	1	FE
<b>COMMERCIAL CAB - EXTERIOR ILLUMINATION</b>		<b>1</b>	<b>FE</b>
18-D2-1420	-- Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
<b>AUDIO / VISUAL COMMUNICATION SYSTEMS</b>		<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
<b>CAB INFORMATION PLATES</b>		<b>1</b>	<b>FE</b>
18-P2-0220	-- Plate - Carrying Capacity NFPA	1	FE
18-P2-2620	-- Plate - Seating Capacity 5 People	1	FE
18-P4-0220	-- Plate - Occupancy/Seat Belt	1	FE
18-P4-0420	-- Plate - "Do Not Wear Helmet While Seated"	1	FE
18-P4-0620	-- Plate - Overall Height/Length/Weight	1	FE
18-P4-0820	-- Plate - Fluid Capacity	1	FE
18-P4-1020	-- Plate - Apparatus Movement Warning	1	FE
18-P4-1220	-- Plate - "Do Not Ride"	1	FE
20-A2-0220	PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-C4-0220	Pump Panels - Black Anodized Aluminum	1	FE
20-C6-1020	Pump Panel - Fully Hinged, Right Side	1	FE
20-D6-0220	Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220	-- Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220	Light - Pump Compartment, Halogen	1	FE
20-F4-2020	Running Board - Slotted Aluminum, Left Side	1	FE
20-F4-4020	-- Running Board - Slotted Aluminum, Right Side	1	FE
20-G2-0220	Handrails (2) - Above Pump Panel, 12" Knurled Aluminum	1	FE
20-H6-0420	Heat Pan w/Heater - Pump House	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420	-- Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	-- Packing Glands - Hale	1	FE
22-G2-0220	-- Pump Shift - Dash Mounted	1	FE
22-J2-0220	-- Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-R2-0220	-- U.L. Test Points	1	FE
22-R2-1820	-- Certification - U.L. 1500 GPM Pump	1	FE
22-R4-0420	-- Plate - Pump Test Certification	1	FE
24-A2-4020	-- Suction Header - 6" w/Long Handle Cap, Left Side	1	FE
24-B2-4020	-- Suction Header - 6" w/Long Handle Cap, Right Side	1	FE
24-J8-0420	-- Valve - Intake Relief, Akron 59	1	FE
24-K2-0420	-- Valve - Pressure Relief, Hale QG	1	FE
20-J2-0220	-- Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
20-M2-4020	-- Vernier Engine Throttle - Pump Panel Mounted	1	FE
20-P2-0220	-- NFPA Pump Panel Gaues - Individual Group	1	FE
20-P2-0620	-- Gauge - Engine Oil Pressure, Pump Panel	1	FE
20-P2-0820	-- Gauge - Engine Coolant Temperature, Pump Panel	1	FE
20-P2-1420	-- Gauge - Tachometer, Pump Panel	1	FE
20-P2-1820	-- Gauge - Voltmeter, Pump Panel	1	FE
20-P2-4020	-- Oil Pressure/Water Temperature Audible Alarm	1	FE
24-R2-0420	-- Tank-To-Pump - 3" Valve w/Push-Pull Control	1	FE
22-P2-0620	-- Valve - Master Pump Drain	1	FE
24-S6-0820	-- Tank Fill - 2" Valve w/Push-Pull Control	1	FE
24-T2-0420	-- Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620	-- Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE

PART NO	DESCRIPTION	QTY	ID
24-W2-0220	-- Plumbing - Galvanized Steel	1	FE
24-W4-0220	-- Paint - Pump and Plumbing, Black	1	FE
<b>VALVE PACKAGE - AKRON - Controls Push-Pull</b>		<b>1</b>	<b>FE</b>
26-C2-0000	-- SUCTION INLETS	1	FE
26-D2-0420	-- Suction - LPF, 2-1/2" Valve w/Swing Control	1	FE
28-00-0000	-- DISCHARGE OUTLETS	1	FE
28-00-0220	-- All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-D2-0820	-- Crosslay No. 1 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D4-0820	-- Crosslay No. 2 - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D8-0220	-- Divider - Crosslay	1	FE
28-D8-0820	-- Cover - Hypalon, Crosslays	1	FE
28-D8-2020	-- Cover - End Flaps w/Snaps, Crosslays (2)	1	FE
28-D8-6020	-- Cover Color: Red	1	FE
28-H8-0220	-- Discharge - LPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-J8-0220	-- Discharge - LPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-M2-0220	-- Discharge - RPF, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-P6-0220	-- Discharge - RPR, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-V6-0220	-- Discharge - Left Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
28-W6-0220	-- Discharge - Right Rear, 2-1/2" Akron Valve w/Push-Pull Control	1	FE
<b>WATER TANKS / COMPONENTS / ACCESSORIES</b>		<b>1</b>	<b>FE</b>
32-C2-2020	Water Tank - Polypropylene, 1000 Gallons (T)	1	FE
32-D8-0420	-- Certification - NFPA Water Tank Size	1	FE
34-A2-1220	-- Gauge - Water Level, Tank Vision WLA200-A00	1	FE
52-A2-1020	-- Body - 96" Wide, Extruded Aluminum	1	FE
52-A6-4020	-- Body Subframe - Extruded Aluminum	1	FE
52-A6-6020	-- Body/Compartment Construction - 96" Wide Body	1	FE
52-A8-0420	-- Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-D4-0220	-- Compartments- Left Side, Rescue Style (43/50/36 w/64" Interior)	1	FE
52-F2-4220	-- Compartment Doors - Left Side Hinged, NON_Locking Flush Look	3	FE
52-F2-4620	-- Door Extension - Paddle Latch	3	FE
52-F4-1020	-- Compartments - Right Side, Low Side w/Hinged Doors (43/36)	1	FE
52-J6-0220	-- Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J8-0220	-- Compartment - Center Rear, Standard Height w/Hinged Door	1	FE
52-J8-2020	-- Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-2620	-- Door Extension - Paddle Latch	1	FE
52-J8-8620	-- Rear Compartment Blouse	1	FE
52-J8-6020	-- Rear Body Construction - Beavertails	1	FE

PART NO	DESCRIPTION	QTY	ID
60-A2-4820	Vertical Load Test - Body	1	FE
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-D2-0220	Trays (2) - Suction Hose, Each Side Above Compartments	1	FE
64-B2-0220	-- Compartment - Wheel Well Single Air Bottle, Left Front	1	FE
64-B4-0220	-- Compartment - Wheel Well Single Air Bottle, Left Rear	1	FE
64-B4-6020	-- Compartment - Wheel Well Single Air Bottle, Right Front	1	FE
64-B6-6020	-- Compartment - Wheel Well Single Air Bottle, Right Rear	1	FE
66-A2-0220	-- Body Trim Package	1	FE
66-A2-0620	-- Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1220	-- Body Trim - Rear Stanchions	1	FE
66-A2-4420	-- Mud Flaps - Rear	1	FE
66-A2-4620	-- Rubrail - Extruded Aluminum	1	FE
66-A4-0620	-- Step - 20" Rear, Slotted Aluminum	1	FE
66-A4-4420	-- Step - Chrome Folding, Front of Body	2	FE
66-A4-6820	-- Steps (4) - LED Lighted, Rear	1	FE
66-A4-8820	-- Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	-- Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	-- Divider - Hose Bed, Pumper	1	FE
66-A8-4220	-- Cover - Hose Bed, Hypalon	1	FE
66-A8-6420	-- Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020	-- Cover Color: Red	1	FE
66-A8-8820	-- Hose Bed Capacity - (Edit Verbiage Qty/Size/Brand)	1	FE
	<b>***** ELECTRICAL / COMPONENTS / ACCESSORIES *****</b>	<b>1</b>	<b>FE</b>
70-A2-2020	-- Electrical System - Apparatus Body	1	FE
70-A2-6020	-- 12-Volt Wiring Protection - Split Loom	1	FE
70-A2-4020	-- Electrical System - 12 Volt Testing	1	FE
70-A2-8020	-- EMI/RFI Protection	1	FE
	<b>AUDIBLE WARNING DEVICES</b>	<b>1</b>	<b>FE</b>
70-B2-0220	-- Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
	<b>INTERIOR COMPARTMENT LIGHTING</b>	<b>1</b>	<b>FE</b>

PART NO	DESCRIPTION	QTY	ID
70-D2-0220	-- Lights - 5" Diameter Halogen Compartment, Truck Lite 80351	1	FE
70-H2-0220	-- Switch - Compartment Door Ajar Indicator	1	FE
72-G8-4020	-- Zone A Upper Light Bar - 60" LED, Whelen FN60VLED	1	FE
72-R8-4020	-- Zone C Upper Lights (2) - Red LED Beacons, Whelen B6TMRR1P	1	FE
74-B8-2020	-- Zone A Lower Lights (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-C8-0420	-- Zone B & D Lower Front (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-D8-2420	-- Zone B & D Lower Midship (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-G8-2020	-- Zone B & D Lower Rear (2) - Red TIR6 LED, Whelen 50R03ZRR	1	FE
74-H8-1020	-- Zone C Lower Lights (2) - Red 600 LED, Whelen 60R02FRR	1	FE
74-J4-0420	-- Stop/Turn LED /Reverse Halogen Lights - Whelen 600 Series	1	FE
74-J4-2220	-- Housing - Rear Tail Light Assembly, CAST4	1	FE
<b>REAR DIRECTIONAL LIGHTING</b>		1	FE
<b>12-VOLT APPARATUS LIGHTING / ACCESSORIES</b>		1	FE
74-L0-0220	-- Lights (2) - 6" Halogen Deck, Unity	1	FE
74-L0-2220	-- Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-0420	-- Lights (6) - Halogen Underbody	1	FE
74-L2-4020	-- Light - LED License, Whelen OSC0EDCR	1	FE
<b>12-VOLT SCENE LIGHTING - SURFACE MOUNT</b>		1	FE
<b>12-VOLT SCENE LIGHTING - BROW MOUNT</b>		1	FE
<b>12-VOLT SCENE LIGHTING - RECESSED MOUNT</b>		1	FE
<b>12-VOLT SCENE LIGHTING - TELESCOPING POLE MOUNT</b>		1	FE
80-C2-0220	-- Paint - Body, Single Color	1	FE
80-C4-0220	-- Body Paint Color/Code: Red B8241EX	1	FE