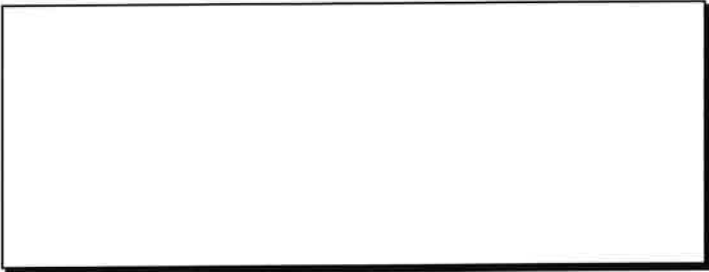


Bulldog Fire Apparatus
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Exp. Date: 01/19/2022 **Create Date:** 12/20/2021 **Rev. Date:** 05/12/2022
Quote No: BFACinderPumper-0003
Job/Order No: H7090
LEGALs: FFA-00-300 Legals - Pumpers
CHASS-CUSM: FCH-30-100 CHASSIS - Custom Tilt Cab - FFA
CHASS-MODS: FCM-10-300 Chassis Mods - Custom
PUMP-ENC: FPE-20-100 Pump Enclosure - SM Extruded
BODY: FBP-30-200 Bodies - Pumper LRS Side Mount Extruded
BODY-CMNT: FBC-30-100 Body Components - Pumpers
ELE-CMPNT: FEC-30-200 Elec. Components - Pumper Custom
PAINT: FPC-10-200 Paint - SM Extruded
WRNTY-MNLS: FWM-50-100 Warranty / Manuals - Pumpers Custom
EQUIPMENT: FEP-30-100 Loose Equipment Pkg. - Pumper

05/22/2022

PART NO	S	DESCRIPTION	QTY	ID
		== <i>Legals - Pumpers - 1021.001 10/13/21</i> ==	1	FE
00-06-0420		Payment Terms: Ferrara Standard	1	FE
00-12-0220		Single Source Manufacturer	1	FE
00-12-0420		Manufacturer - Virtual	1	FE
00-12-0620	S	Principal Dimensions	1	FE
		The apparatus shall have the following dimensions:		
		Overall Length: 32' 8-1/2"		
		Overall Height: 9' 10-3/4"		
		Wheelbase: 202"		
		Cab to Axle: 140"		
00-12-0820		Certified Welders	1	FE
00-12-1020		Body Weight	1	FE
00-14-0620		Drawings - Approval	1	FE
00-18-0820		Vehicle Transportation - DEALERS ONLY!!!!!!!	1	FE
00-18-1820		Delivery Time: Calendar Days	300	FE
00-18-2020		Vehicle Familiarization & Demonstration	1	FE
00-22-1020	S	Service Center	1	FE
		== <i>CHASSIS - Custom Tilt Cab - FFA - 1021.001 10/13/21</i> ==	1	FE

PART NO	S	DESCRIPTION	QTY	ID
00-D2-0420		Custom XD Full Tilt Cab - CINDER	1	FE
		WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES	1	FE
02-A2-0220	S	Wheelbase: 202"	1	FE
02-A4-0420		Frame Rails - Double	1	FE
02-A4-2420		Paint - Frame Rail, "F-Shield"	1	FE
02-A4-2620		"F-Shield" Color: Black	1	FE
02-A6-1620		Tow Hooks - Painted, Below the Bumper	1	FE
		FRONT BUMPERS / COMPONENTS / ACCESSORIES	1	FE
02-B2-1020		Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
		The front bumper shall be painted job color red, FLNA 31979.		
02-B2-2020		Bumper Notch - Q2 Siren Mounting	1	FE
		Location: P7		
02-B4-0220		Recessed Pockets - Front Bumper Sides	1	FE
02-B4-1020		Lights (2) - LED, Under Front Bumper	1	FE
		Make / Model: TecNiq E10-WS00-1		
02-C4-1420		Front Bumper Extension - 18"	1	FE
02-D2-0220		Gravelshield - Front Bumper Extension	1	FE
02-D4-0620		Compartment - Front Bumper, Center	1	FE
		The front bumper compartment will house 150' of 1-3/4" double jacket hose with nozzle.		
		The interior compartment dimensions will measure 31-3/4" long x 10-3/4" wide x 14" deep.		
02-E4-0420		Restraining Strap - Center Compartment	1	FE
02-M6-0220		Mechanical Siren - Federal Q2B DS Thru Bumper (P7)	1	FE
		The P7 position on the front bumper shall be notched for the Q2B siren.		
		The siren brake switch will be located within reach of the driver.		
02-M8-0220		Siren Wiring - Active in Response Mode Only	1	FE
02-M8-0620		Switch - Siren, Driver's Side Floor	1	FE
02-M8-1420		Additional Siren Brake Switch - Q2B Siren	1	FE
		The additional siren brake switch will be located in the officer's dash panel.		
02-M8-1820		Switch - Siren, Officer's Side Dash	1	FE
02-P2-0420		Air Horn - PS Thru Bumper (P2), Hadley Round E-Tone	1	FE
02-P2-1020		Air Horn - DS Thru Bumper (P6), Hadley Round E-Tone	1	FE
02-P8-0420		Air Horn Wiring - Active All Modes	1	FE
02-P8-0820		Switch - Horn/Horn Selector	1	FE
02-P8-1220		Switch - Air Horn, Officer's Side Dash	1	FE
02-R2-0220		Speaker - PS Thru Bumper (P1)	1	FE

PART NO	S	DESCRIPTION	QTY	ID
02-R4-0420		<i>Siren Speaker - Cast Product SA2401</i>	1	FE
		FRONT AXLES / COMPONENTS / ACCESSORIES	1	FE
04-A2-0420		<i>Front Axle - 20,000 Pounds, Hendrickson Steertek</i>	1	FE
04-A6-0820		<i>Steering System - Sheppard, 18,000 to 24,000 Pounds</i>	1	FE
04-A8-0220		<i>Chassis Alignment</i>	1	FE
04-B2-0420		<i>Front Suspension - 20,000 Pounds, Hendrickson Steertek</i>	1	FE
04-C2-0620		<i>Front Brakes - Disc, Meritor EX-225</i>	1	FE
04-C4-0820		<i>Cramp Angle - 45 Degrees</i>	1	FE
04-D4-0620		<i>Front Tires - Michelin 385/65R 22.5 "L" X MultiWay HD XZE</i>	1	FE
		<i>20,000 Pounds</i>		
04-E2-2620		<i>Front Wheels - 22-1/2" x 12-1/4", Alcoa Aluminum w/Dura Bright Finish</i>	1	FE
04-E4-0220		<i>Wheel Trim - Front, Baby Moons/Lug Nut Covers</i>	1	FE
04-E4-2020		<i>Mud Flaps - Front</i>	1	FE
		SINGLE REAR AXLES / COMPONENTS / ACCESSORIES	1	FE
04-G2-0820		<i>Rear Axle - 31,500 Pounds, Meritor RS-30-185</i>	1	FE
04-K2-8220		<i>Rear Suspension - 31,500 Pounds, Spring</i>	1	FE
04-M2-0620		<i>Driver Controlled Differential Lock (DCDL) - Single Axle</i>	1	FE
04-M6-0420		<i>Vehicle Top Speed: 60-62 MPH</i>	1	FE
04-P2-0620		<i>Rear Brakes - S-Cam 16-1/2" x 8.62"</i>	1	FE
04-R4-1020		<i>Rear Tires - Michelin 315/80R22.5 "L" XDN2 GRIP 31,500 Pounds</i>	1	FE
04-S2-2620		<i>Rear Wheels - 22-1/2" x 9", Alcoa Aluminum w/Dura Bright Finish</i>	1	FE
04-S2-6020		<i>Wheel Trim - Rear, Lincoln Hats</i>	1	FE
04-S6-1220		<i>Tire Pressure Monitor (Single Rear Axles) - LED Alert</i>	1	FE
		The TPMS valve stem caps will be shipped loose with the apparatus.		
		AIR BRAKE SYSTEM / COMPONENTS	1	FE
06-A2-0220		<i>Harness and Hose Routing System</i>	1	FE
06-A2-0420		<i>Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves</i>	1	FE
		The 1/4-turn drain valves shall be located on the side of the body, underneath compartment L1.		
06-A2-4220		<i>Chassis Air System Fittings - Compression Type</i>	1	FE
06-A2-6020		<i>Air Compressor - Wabco 18.7</i>	1	FE
06-A2-8020		<i>Front Axle Service Brake Locking System</i>	1	FE
06-A4-4020		<i>ABS/ATC/ESC System - SINGLE AXLE</i>	1	FE
06-B4-0620		<i>Heated Automatic Moisture Ejectors (All Reservoirs)</i>	1	FE
06-B4-2020		<i>Air Dryer - Bendix AD-9</i>	1	FE
		ENGINES / COMPONENTS / ACCESSORIES	1	FE
08-A2-1020		<i>Engine - 450 HP, Cummins L9 (MY2021)</i>	1	FE
08-B2-0620		<i>Engine Brake - Cummins L Series Engines</i>	1	FE
		ENGINE / COMPONENTS / COOLING SYSTEM - L SERIES	1	FE
		ENGINES		
08-C2-0420		<i>Cooling System - 1400 Square Inch Radiator</i>	1	FE
08-C2-1420		<i>Cooling System Fan - Cummins L Series Engines</i>	1	FE
08-C2-2620		<i>Radiator Coolant - Extended Life</i>	1	FE
08-C2-4220		<i>Coolant Hoses - Premium Rubber</i>	1	FE

PART NO	S	DESCRIPTION	QTY	ID
08-C2-4420		Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020		Auxiliary Engine Cooler	1	FE
		ENGINE / COMPONENTS / CHARGING SYSTEMS	1	FE
08-D2-2220		Alternator - 430 AMP, Delco Remy 55SI	1	FE
08-E2-0630		Battery System (6) - DEKA D-31AGM-925 (925 CCA Each)	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-E8-1620		Battery Charger - 40 AMP, Blue Sea 7532 P12	1	FE
08-E8-2020		Charging Relay w/Manual Control - Blue Sea 7622	1	FE
08-G2-0620		Air Compressor - 12-Volt, Blue Sea 7920	1	FE
08-G4-2420		Receptacle - 20 AMP, Blue Sea Sure Eject 7851	1	FE
08-G4-4020		Receptacle Location - Driver's Side Cab Wheel Well Area	1	FE
08-G6-2220		Cover - Sure Eject Red, Blue Sea 7821	1	FE
08-G8-2420		Bar Graph Display - Remote, Blue Sea 7517	1	FE
08-G8-4020		Bar Graph Location - Driver's Seat Riser	1	FE
08-G8-8220		Plate - Shore Power Inlet	1	FE
		TRANSMISSION / COMPONENTS / ACCESSORIES	1	FE
10-A2-0220		Transmission - Allison 3000 EVS	1	FE
10-A4-0620		Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220		Drive line - 1710 Series	1	FE
10-H4-1820		Fire Pump Installation	1	FE
		FUEL SYSTEM / COMPONENTS - L SERIES ENGINES	1	FE
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	2	FE
		There will be one-(1) per side of the primary fuel / water separator.		
10-J4-0620		Fuel Re-Prime Pump - Electric	1	FE
10-J4-2020		Fuel Water Separator - Primary Filter	1	FE
10-J4-2620		Fuel Filter - Secondary Filter	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
10-M2-0820		Exhaust System - EPA 2017/18	1	FE
		CAB CONFIGURATIONS - CINDER XD - SMFD thru LFD	1	FE
12-H6-1420		Custom Cab - Ferrara 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 - Piano	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-R4-2220		Cab Tilt Electric Pump w/Manual Back-Up (Standard Location)	1	FE

PART NO	S	DESCRIPTION	QTY	ID
12-R4-6220		<i>Active Air Purification System - 12 VDC CAPS Mini</i> The system will be located behind the officer seat.	1	FE
		CUSTOM CAB - EXTERIOR TRIM COMPONENTS	1	FE
14-A2-0420		<i>Front Grille - Stainless Steel</i>	1	FE
14-A2-2020	S	<i>Front Grille Logo - Custom/Lighted</i> The front grille shall be have a custom logo that reads BULLDOG with backlit red LED lights that area activated by the battery on/off switch.	1	FE
14-A2-6220		<i>Side Grille w/Ember Separator - Notched Right Side</i>	1	FE
14-A4-0620		<i>Cab Mirrors - Heated/Remote, Velvac Stainless Steel</i>	1	FE
14-A6-0220		<i>Exterior Trim - Cab Handrails, Knurled Stainless Steel</i>	1	FE
14-A6-1620		<i>Fenderettes - Polished Stainless Steel</i>	1	FE
14-A6-2220		<i>Exterior Trim - Rear Step Well w/Hinged Battery Access Doors</i>	1	FE
14-A6-8220		<i>Exterior Trim - Tread Plate, Back of Cab</i>	1	FE
14-A8-0220		<i>Exterior Trim - Tread Plate, Cab Roof</i>	1	FE
		CUSTOM CAB - INTERIOR TRIM COMPONENTS	1	FE
14-G2-0420		<i>Deluxe Insulation - Under Cab</i>	1	FE
14-G2-1020		<i>Corrosion Protection/Sound Deadening - "F-Shield"</i>	1	FE
14-G4-0620		<i>Interior Cab Finish - "F-Shield" Black</i>	1	FE
14-G4-2420		<i>Interior Trim - Black Floor Mats/Engine Tunnel Covering</i>	1	FE
14-G4-6420		<i>Interior Trim - Sprayed Aluminum, Rear Wall</i>	1	FE
14-G6-0420		<i>Interior Trim - Grab Handles (4 Door Cab)</i>	1	FE
14-G6-4220		<i>Interior Trim - Officer's Dash, Recessed</i>	1	FE
14-G6-6220		<i>Interior Trim - Sun Visors (2)</i>	1	FE
14-H2-0820		<i>Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)</i>	1	FE
14-H2-4220		<i>Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)</i>	1	FE
14-H4-0820		<i>Interior Trim - Lower Door Panels Chevron Material (4 Door Cab)</i>	1	FE
14-H4-2220		<i>Interior Trim - Mounting Plate, Engine Tunnel</i>	1	FE
		CUSTOM CAB - INSTRUMENTS AND CONTROLS	1	FE
14-K2-0420		<i>Cab Instrumentation & Controls - Standard Gauges</i>	1	FE
14-K2-0620		<i>Driver's Information Display Panel</i>	1	FE
14-K2-0820		<i>Chassis Electrical System - Point to Point Wiring</i>	1	FE
14-K2-2020		<i>Doghouse Mounted Switch Panel - Ferrara XD Aluminum</i>	1	FE
14-K2-2220		<i>Switch Panel - Driver's Side (Pump Applications)</i>	1	FE
14-K2-4220		<i>Switch Panel - Center, 96" Wide XD Cab</i>	1	FE
14-K2-6220		<i>Switch Panel - Officer's Side</i>	1	FE
14-K2-8220		<i>Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1</i>	1	FE
14-K4-0420		<i>Seat Belt Warning System Panel - Class 1</i>	1	FE
14-K4-4020		<i>Steering Column w/Self Canceling Turn Signals - Douglas</i>	1	FE
14-K6-4220		<i>Switch - Manual Fast Idle</i>	1	FE
14-P2-1620		<i>Heat/Air Conditioning - Under Dash and Rear Crew Area</i>	1	FE
14-P2-2420		<i>A/C Condenser Housings: Black</i>	1	FE
		CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS	1	FE
16-A2-4020		<i>Seating / EMS Compartments - Valor</i>	1	FE
16-A8-0820		<i>Seat Material - VALORTech XD</i>	1	FE

PART NO	S	DESCRIPTION	QTY	ID
16-A8-1420		Seat Color - Black	1	FE
16-A8-4820		Seat Belts - ABTS w/Dual Retractors & Ready Reach	6	FE
16-A8-6420		SCBA Seats Brackets - IMMI Smart Dock	5	FE
16-A8-8020		No Filler Panels Required	1	FE
16-B4-6420		Seat - Driver, USSC Valor Air Suspension Base (G2ELP)	1	FE
16-B4-8620		Seat - Officer, USSC Valor Fixed Base/SCBA	1	FE
16-B4-9220		Compartment Under Officer's Seat w/Door	1	FE
16-C2-2420		Seat - DS Rear Facing Crew, USSC Valor Fixed Base/SCBA	1	FE
16-D2-2420	S	Seat - OS Rear Facing Crew, USSC Valor Fixed Base/SCBA	1	FE
16-E2-6220		Seats (2) - IB Forward Facing Crew, USSC Valor Fixed Base/SCBA	1	FE
		CUSTOM CAB - ACCESSORIES	1	FE
16-M2-1020		Fuse Block - 12-Volt 12-Place, Blue Sea 5026	1	FE
		The fuse block will be located behind the officer seat on the Mini CAPS mounting pedestal.		
16-M2-1420		12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219-4	3	FE
		One-(1) dual USB charging port will be installed on the driver's side dash panel.		
		One-(1) dual USB charging port will be installed on the officer's side dash panel.		
		One-(1) dual USB charging port will be installed on the rear face of the engine tunnel, centered.		
16-M2-2220		Radio - WB/AM/FM/CD/iPod/Sat w/Speakers, Jensen	1	FE
16-M2-2920		Radio Antenna Mount - MNO	2	FE
16-M2-6020		12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420		12-Volt Power Outlet - Cab Mounted	3	FE
		One-(1) 12-volt power port shall be installed on the driver's side lower wing dash panel, next to the specified dual USB charging port.		
		One-(1) 12-volt power port shall be installed on the officer's side lower wing dash panel, next to the specified dual USB charging port.		
		One-(1) 12-volt power port shall be installed on the rear face of the engine enclosure, next to the specified dual USB charging port.		
16-M2-6620		Wiring - 12-Volt Outlet, Battery Direct	3	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
		CUSTOM CAB - INTERIOR LIGHTING	1	FE
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 (6) - Step Well, TecNiq D04 Linear Dragon	1	FE

PART NO	S	DESCRIPTION	QTY	ID
16-R4-0420		Lights (2) - Engine Maintenance, LED	1	FE
		CUSTOM CAB - EXTERIOR ILLUMINATION	1	FE
18-A2-0820	S	Front Cab Lighting - Sound Off Signal LED	1	FE
18-A4-0830		Headlights - LED, FireTech FT-4X6-4KIT	1	FE
18-A4-2820		Daytime Running Lights w/Alternating Flashing	1	FE
18-A6-0430	S	Lights (2) - LED Turn Signal, Sound Off Signal EPSSB0JX9-A (Headlight Module Mou	1	FE
		Two-(2) Sound Off Signal EPSSB0JX9-A turn signal lamps shall be installed, one-(1) each side directly below the low beam headlights in the warning light modules.		
		LED Color: Amber		
		Lens Color: Amber		
18-A6-1220		Lights (2) - Turn Signal/Marker, Whelen 400 Series LED	1	FE
18-A6-6020		Lights (2) - Cornering, LED	1	FE
18-A6-6420		NO FRONT CAB FACE DOT LIGHTS REQUIRED	1	FE
18-B4-2000	S	Lights (2) - Inboard Lower Front Warning, Sound Off Signal EPSSB0JX4-R	1	FE
		Two-(2) Sound Off Signal LED 6x4 lights model EPSSB0JX4-R will be installed, one-(1) each side inboard of the turn signal in the warning light modules.		
		LED Color: Red		
		Lens Color: Red		
18-D2-1220	S	Lights (4) - LED Cab Ground, TecNiq E10-WA00-1 Make / Model: TecNiq E10-WS00-1	1	FE
		AUDIO / VISUAL COMMUNICATION SYSTEMS	1	FE
18-M2-0420		Camera/Video System - Fire Research inView360 SNB100-C00	1	FE
18-M2-0620		Monitor - 7" Color, Fire Research SNB1option-MH0	1	FE
		The monitor will be located in the left front cab corner.		
		== Chassis Mods - Custom - 1021.001 10/13/21 ==	1	FE
		NFPA SAFETY SIGNS	1	FE
18-P2-0220		Safety Signs - General Requirements	1	FE
18-P2-0420		Safety Signs - Battery Explosion, FAMA01	1	FE
18-P2-0620		Safety Signs - Rotating Shafts, FAMA02	1	FE
18-P2-0820		Safety Signs - Hot Surfaces, FAMA03	1	FE
18-P2-1020		Safety Sign - Hot Exhaust, FAMA04	1	FE
18-P2-1220		Safety Sign - Spinning Fan, FAMA05	1	FE
18-P2-1420		Safety Signs - Seated & Belted, FAMA07	1	FE
18-P2-1620		Safety Sign - Air Conditioning Refrigerant, FAMA09	1	FE

PART NO	S	DESCRIPTION	QTY	ID
18-P2-1820		Safety Sign - Cab Equipment Mounting, FAMA10	1	FE
18-P2-2020		Safety Sign - Fire Service Tire Rating, FAMA12	1	FE
18-P2-2220		Safety Sign - Electronic Stability Control, FAMA13	1	FE
18-P2-2420	S	Safety Sign - Cab Seating, FEMA14	1	FE
18-P2-2620		Safety Signs - Helmet Worn in Cab, FAMA15	1	FE
18-P2-2820		Safety Sign - Vehicle Backing, FAMA17	1	FE
18-P2-4020		Safety Signs - Intake/Discharge Cap Pressure, FAMA18	1	FE
18-P2-4220		Safety Signs - Hose Restraint Required, FAMA22	1	FE
18-P2-4420		Safety Signs - Climbing Method Instruction, FAMA23	1	FE
18-P2-4620		Safety Signs - Riding on Exterior, FAMA24	1	FE
18-P2-4820		Safety Sign - Pump Training, FAMA25	1	FE
18-P2-6020		Safety Signs - No-Step, FAMA26	1	FE
18-P2-6220		Safety Sign - Siren Noise, FAMA42	1	FE
18-P4-1020		Safety Sign - Apparatus Movement Warning	1	FE
18-P6-0220		Plate - Fluid Capacity	1	FE
18-P6-0420		Plate - Overall Height/Length/Weight == Pump Enclosure - SM Extruded - 1021.001 10/13/21 ==	1	FE
20-A2-0220		PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM	1	FE
20-A4-2220		Separate Pump Module - Extruded	1	FE
20-A4-4020		Trim - Dunnage Area, Tread Plate	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-D8-0620		Light - Pump Compartment, LED	1	FE
20-F4-0420		Running Boards - Aluminum Tread Plate, Left & Right Side	1	FE
20-F4-2220		Hose Trays (2) - Running Boards, Left & Right Side	1	FE
20-F4-2820		Hose Tray Mounting - Floating/Drop In Style w/45-Degree Bottom Corners	1	FE
20-G2-0820		Handrails (2) - Above Pump Panel, 12" Knurled Stainless Steel	1	FE
20-H4-0820		Switch - Air Horn, Pump Panel	1	FE
20-J2-0220		Gauges - Master Suction/Pressure, 4-1/2" Metal Face	1	FE
20-J2-1020		Back Light Option - LED, Master Gauges	1	FE
20-J4-1620		Pressure Governor - FRC Pump Boss PBA400-A00	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
		PUMP / COMPONENTS / ACCESSORIES	1	FE
22-A4-0820		Pump System - 1250-2000 GPM Single Stage, Waterous CSU	1	FE
22-F4-0420		Mechanical Seal - Waterous (CS/CM/CSU/CMU)	1	FE
22-F4-1420		Flame Plated Impeller Hub - Waterous	1	FE
22-G2-0420		Pump Shift w/Manual Override	1	FE
22-J8-0820		Primer - Automatic Air, Trident 31.001.0 (1250+ GPM)	1	FE
22-M2-0220		Anodes - Pump Corrosion (Each)	2	FE
22-P2-0220		Valve - Master Pump Drain	1	FE
22-P2-1220		Valve - Individual Drain, 3/4" 1/4 Turn	1	FE

PART NO	S	DESCRIPTION	QTY	ID
22-R2-0420		<i>Pump Test Points - Waterous Pumps</i>	1	FE
22-R2-2220		<i>Certification - Pump, 2000 GPM Pump</i>	1	FE
22-R4-0420		<i>Plate - Pump Test Certification</i>	1	FE
24-A2-1620		Steamer Inlets - 6" w/Long Handle Cap, Left & Right Side	1	FE
24-J8-0420		Valve - Intake Relief, TFT	1	FE
24-R2-0420		Tank-To-Pump - 3" Valve w/Push-Pull Control	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 (1/2")	1	FE
24-W2-0220		<i>Plumbing - Stainless Steel</i>	1	FE
24-W4-0220		<i>Plumbing Finish - Natural</i>	1	FE
26-A2-1020		<i>Apparatus Valves - Elkhart Brass Unibody Series/Waterous</i>	1	FE
26-D2-0420		Suction - Left Side, 2-1/2" Valve w/Swing Control at Valve	1	FE
26-G2-0220		<i>Suction - Right Side, 2-1/2" Valve w/Swing Control at Valve</i>	1	FE
28-00-0100		DISCHARGE OUTLETS - SIDE MOUNT	1	FE
28-00-0220		All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-A6-0220		<i>Discharge - Front Bumper w/ Swivel - thru Tread Plate (PS)</i>	1	FE
28-A8-0220		<i>Discharge - Front Bumper, 2" Valve w/Push Pull Control</i>	1	FE
28-A8-6020		<i>Discharge - Swivel Stop, Tread plate</i>	1	FE
28-D4-0420		Crosslays (2) - Double Lay, 2" Valve w/Push Pull Control	1	FE
28-D6-2020		<i>Crosslay - Double Lay, 2-1/2" Valve w/Push Pull Control</i>	1	FE
28-D8-1220		<i>Cover - Aluminum w/End Flaps, Crosslays</i>	1	FE
28-D8-4420		<i>End Flaps - Cargo Net w/Seat Belt Buckles, Crosslays</i>	1	FE
28-D8-6220		<i>Cover/End Flaps Color: Black</i>	1	FE
28-H8-0420		Discharges (2) - Left Side, 2-1/2" Valve w/Push-Pull Control	1	FE
28-K4-0220		<i>Discharge - Right Side, 2-1/2" Valve w/Push-Pull Control</i>	1	FE
28-K4-6220		<i>Discharge - Right Side, 4" Valve w/Handwheel Control</i>	1	FE
		The handwheel control shall be a Trident brand with center position indicator.		
28-Q2-0220		Discharge - Deck Gun, 3" Valve w/Push Pull Control	1	FE
28-R2-0220		<i>Telescoping Waterway - 3" Manual, TFT XG18VL-PL Extend-A-Gun</i>	1	FE
28-S2-1020		<i>Discharge - LF Hose bed, 2-1/2" Valve w/Push-Pull Control</i>	1	FE
28-W2-1020		<i>Discharge - Right Rear, 2-1/2" Valve w/Push-Pull Control</i>	1	FE
28-W8-8020		<i>Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident 01.010.0</i>	1	FE
30-S2-0620		<i>Foam Tank No. 1 - Polypropylene, 30 Gallons</i>	1	FE
		The foam tank shall be integral to the water tank in the apparatus. The foam tank fill tower shall be supplied and outfitted at Ferrara. Do not cap the foam cell.		
30-T2-0420		<i>Foam Outlet - Discharge Front Bumper</i>	1	FE
30-T2-0620		<i>Foam Outlet - Crosslay No. 1</i>	1	FE
30-T2-0820		<i>Foam Outlet - Crosslay No. 2</i>	1	FE
30-T2-1020		<i>Foam Outlet - Crosslay No. 3</i>	1	FE
32-E2-2020		<i>Return Line - Fill Subsurface</i>	1	FE
		== Bodies - Pumper LRS Side Mount Extruded - 1021.001 10/13/21	1	FE
		==		

PART NO	S	DESCRIPTION	QTY	ID
		WATER TANKS / COMPONENTS / ACCESSORIES	1	FE
32-C2-2020		<i>Water Tank - Polypropylene, 1000 Gallons</i>	1	FE
32-D8-0420		<i>Certification - NFPA Water Tank Size</i>	1	FE
34-A2-1220		<i>Gauge - Water Level, Tank Vision Pro WLA300-A00</i>	1	FE
34-B2-1420		<i>Lights (2) - Water Level, FRC MAXVISION WLA280-A00</i>	1	FE
		There will be one-(1) light mounted on each side of the apparatus on the cab extensions as high as possible.		
		The lights will be activated when the park brake is applied.		
52-A2-1220		<i>Body - 102" Wide, Extruded Aluminum</i>	1	FE
52-A6-4020		<i>Body Sub frame - Extruded Aluminum</i>	1	FE
52-A6-6220		<i>Body/Compartment Construction - 102" Wide Body</i>	1	FE
52-A8-0420		<i>Wheel Well Panels & Fenders - Body, Painted Aluminum</i>	1	FE
52-A8-1020		<i>Hose Bed - 67-1/2" Wide</i>	1	FE
52-D6-1020	S	<i>Compartments- Left Side, Rescue Style 50/58/50 w/73" Interior Height</i>	1	FE
		L1		
		There shall be one-(1) left front compartment installed ahead of the rear axle. The interior dimensions shall be approximately 50" wide x 73" high x 28" deep.		
		L2		
		There shall be one-(1) compartment installed above the wheel well. The interior dimensions shall be approximately 58" wide x 41" high x 28" deep.		
		L3		
		There shall be one-(1) left rear compartment installed behind the rear axle. The interior dimensions shall be approximately 50" wide x 73" high x transverse in the lower section and 28" deep in the upper section.		
		The compartments will be 15" deep in the very upper section.		
52-F2-6020		<i>Compartment Doors - Left Side Roll Up, AMDOR Satin Finish</i>	3	FE
52-F2-6620		<i>Pull Down Strap - Compartment Door</i>	3	FE
52-F2-6820		<i>Cover - Roll-Up Door Interior</i>	3	FE
52-H4-1620	S	<i>Compartments - Right Side, Rescue Style 50/58/50 w/73" Interior Height</i>	1	FE
		R1		
		There shall be one-(1) right front compartment installed ahead of the rear axle. The interior dimensions shall be approximately 50" wide x 73" high x 28" deep.		
		R2		
		There shall be one-(1) compartment installed above the wheel well. The interior dimensions shall be approximately 58" wide x 41" high x 28" deep.		

PART NO	S	DESCRIPTION	QTY	ID
		<p>R3</p> <p>There shall be one-(1) right rear compartment installed behind the rear axle. The interior dimensions shall be approximately 50" wide x 73" high x transverse in the lower section and 28" deep in the upper section.</p> <p>The compartments will be 15" deep in the very upper section.</p>		
52-J6-2020		Compartment Doors - Right Side Roll Up, AMDOR Satin Finish	3	FE
52-J6-2620		Pull Down Strap - Compartment Door	3	FE
52-J6-2820		Cover - Roll-Up Door Interior	3	FE
52-J8-0420	S	Compartment - Center Rear, Standard Height	1	FE
		<p>B1</p> <p>There shall be one-(1) compartment installed at the center rear of the apparatus. The compartment shall have a usable door opening of approximately 41" wide x 28" high 32" deep.</p>		
52-J8-2020		Compartment Door - Rear Hinged, NON_Locking Flush Look	1	FE
52-J8-6220		Rear Body Construction - Flat Back Design	1	FE
52-J8-8820		Step - Intermediate Rear, Aluminum Tread Plate	1	FE
58-E2-0620		Compartments (4) - Roof Top Storage	1	FE
		<p>Each compartment will have a grommet mount LED installed to the compartment inner door pan that activates when the door is open.</p> <p>Each rooftop compartment shall be approximately 80-1/2" long x 10-3/4" wide x 15" deep.</p> <p>Each coffin compartment shall be equipped with gravity drains to relieve excess moisture within the compartments.</p> <p>The rearmost coffin compartment on the driver side of the apparatus body shall be equipped with a hinged rear access door. The rear access door opening shall be wide enough for the specified suction hose to slide through. The rear access door shall be constructed of smooth aluminum, and shall be vertically hinged with two-(2) SouthCo thumb latches to keep th door closed.</p> <p>The rearmost coffin compartment on the officer side of the apparatus body shall be equipped with a hinged rear access door. The rear access door opening shall be wide enough for the specified suction hose to slide through. The rear access door shall be constructed of smooth aluminum, and shall be vertically hinged with two-(2) SouthCo thumb latches to keep th door closed.</p>		
60-A2-4820		Vertical Load Test - Body	1	FE
60-A2-8020		Compartment - Full Depth, Per Compartment	6	FE
		The side compartments will be full depth.		

PART NO	S	DESCRIPTION	QTY	ID
62-A2-8220		<i>Compartment - Ladder/Pike Pole Storage, Thru Tank</i> The NFPA ground ladder compliment will be stored on the beams within the compartment.	1	FE
62-B2-1220		<i>Tubes (2) - Pike Pole Storage</i> The tubes will be located in the ladder compartment.	1	FE
62-I2-1020		<i>Storage Slot - Backboard Storage</i> The storage slot will be located below the crosslay cover.	1	FE
64-B2-0420		<i>Compartment - Wheel Well Double Air Bottle, Left Front (SIG4)</i>	1	FE
64-B4-0420		<i>Compartment - Wheel Well Double Air Bottle, Left Rear (SIG4)</i>	1	FE
64-B4-6220		<i>Compartment - Wheel Well Double Air Bottle, Right Front (SIG4)</i>	1	FE
64-B6-6220		<i>Compartment - Wheel Well Double Air Bottle, Right Rear (SIG4)</i>	1	FE
66-A2-0220		Body Trim Package	1	FE
66-A2-1020		<i>Body Trim - Vertical Handrails (2), Knurled Stainless Steel</i>	1	FE
66-A2-1420		<i>Body Trim - NO Rear Stanchions</i>	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		Rub Rail - Extruded Aluminum	1	FE
66-A4-1020		<i>Step - 12" Rear, Aluminum Tread Plate</i>	1	FE
66-A4-4420		<i>Step - Chrome Folding, Front of Body</i> There will be two-(2) steps located on each side of the apparatus on the front compartment faces.	4	FE
66-A4-6820		Steps (4) - LED Lighted, Rear	1	FE
66-A4-8820		Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2620		<i>Handrail - Below Hose Bed, Knurled Stainless Steel</i>	1	FE
66-A8-1620		<i>Divider - Hose Bed, Pumper</i>	2	FE
66-A8-2420		<i>Hand Hole in Hose Bed Divider</i>	2	FE
66-A8-6220	S	<i>Cover - Aluminum w/End Flaps, 4-Piece Design</i>	1	FE
66-A8-7620		<i>End Flap - Cargo Net w/Seat Belt Buckles, Hose Bed</i>	1	FE
66-A8-8220		<i>Cover/End Flap Color: Black</i>	1	FE
66-A8-8820		<i>Hose Bed Capacity</i> The specified hose bed shall be 171" long x 67-1/2" wide x 17-1/4" deep.	1	FE
		== Body Components - Pumpers - 1021.001 10/13/21 ==	1	FE
66-B2-0620		<i>Unistruts - Aluminum, Per Compartment</i> There will be two-(2) sets for tracks on each side wall of compartment L1, compartment L2, compartment L3, compartment R1, compartment R2 and compartment R3.	6	FE
		== Elec. Components - Pumper Custom - 1021.001 10/13/21 ==	1	FE
		***** ELECTRICAL / COMPONENTS / ACCESSORIES ****	1	FE
70-A2-2032		<i>Electrical System - Apparatus Body, Point to Point</i>	1	FE
70-A2-4020		Electrical System - 12 Volt Testing	1	FE

PART NO	S	DESCRIPTION	QTY	ID
70-A2-6020		<i>12-Volt Wiring Protection - Split Loom</i>	1	FE
70-A2-8020		EMI/RFI Protection	1	FE
		AUDIBLE WARNING DEVICES	1	FE
		INTERIOR COMPARTMENT LIGHTING	1	FE
70-D4-0220		<i>Light - LED Compartment, Amdor Luma Bar</i> There will be two-(2) lights installed in each compartment.	14	FE
70-H2-0220		Switch - Compartment Door Ajar Indicator	1	FE
72-G2-1020	S	<i>Zone A Upper Light Bar - Sound Off Signal nForce NXT ENNLB00Q3B-28X</i>	1	FE
72-M4-4820	S	<i>Zone B/D Upper Body Side Front (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed. Lens color shall be: Red LED color shall be: Red There will be one-(1) light installed on each side of the apparatus on the upper front corners of the body.	1	FE
72-P4-4820	S	<i>Zone B/D Upper Body Side Rear (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed. Lens color shall be: Red LED color shall be: Red There will be one-(1) light installed on each side of the apparatus on the upper rear corners of the body.	1	FE
72-S4-4420	S	<i>Zone C Upper Outboard Lights (2) - Red LED, Sound Off Signal EPSSC0JX8-R</i> Two-(2) Sound Off Signal 7x3 LED lights model EPSSC0JX8-R will be installed. Lens color shall be: Red LED color shall be: Red There will be one-(1) light installed on each side of the apparatus on the upper rear of the unit above the scene lights.	1	FE
74-D2-4820	S	<i>Zone B & D Lower Front (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed.	1	FE

PART NO	S	DESCRIPTION	QTY	ID
74-E4-4820	S	<p>Lens color shall be: Red LED color shall be: Red</p> <p>There will be one-(1) light located on each side of the apparatus on the front bumper ends in the recessed pockets.</p> <p><i>Zone B & D Lower Midship (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed.</p>	1	FE
74-G4-2820	S	<p>Lens color shall be: Red LED color shall be: Red</p> <p>There will be one-(1) light located on each side of the apparatus in the body wheel well area.</p> <p><i>Zone B & D Lower Rear (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed.</p>	1	FE
74-H4-4820	S	<p>Lens color shall be: Red LED color shall be: Red</p> <p>There will be one-(1) light located on each side of the apparatus on the rear tailboard ends.</p> <p><i>Zone C Lower Lights (2) - Red LED, Sound Off Signal EPSSB0JX4-R</i> Two-(2) Sound Off Signal 6x4 LED lights model EPSSB0JX4-R will be installed.</p>	1	FE
74-J2-4020	S	<p>Lens color shall be: Red LED color shall be: Red</p> <p>There will be one-(1) light located on each side of the apparatus in the rear tail light housings.</p> <p><i>Stop/Turn/Reverse Lights - LED, Sound Off Signal</i> Two-(2) Sound Off Signal model EPSSB0JX7-R LED brake light / tail light will be installed.</p> <p>Two-(2) Sound Off Signal model EPSSB0JX5-W LED back up lights will be installed.</p> <p>Two-(2) Sound Off Signal model EPSSB0JX9-A LED turn signal lights will be installed.</p>	1	FE

PART NO	S	DESCRIPTION	QTY	ID
74-J8-4220	S	<p>Light - LED Rear Directional, Sound Off Signal EMPAK0098M</p> <p>One-(1) Sound Off Signal mPower model EMPAK0098M 6 module LED directional warning light shall be provided.</p> <p>The light will be controlled by a ETSWDAS01 controller.</p>	1	FE
74-J9-0220		Rear Directional Light Mounting - Surface Mount	1	FE
74-J9-6020		Control Head Location - Traffic Light, Centered Top of Dash	1	FE
		12-VOLT APPARATUS LIGHTING / ACCESSORIES	1	FE
74-L0-2220		Lights - LED Clearance and Maker	1	FE
74-L2-0620	S	<p>Light - LED Underbody, TeqNiq E10-WA00-1</p> <p>One-(1) light will be located underneath compartment L1.</p> <p>One-(1) light will be located underneath compartment L3.</p> <p>One-(1) light will be located underneath compartment R1.</p> <p>One-(1) light will be located underneath compartment R3.</p> <p>Two-(2) lights will be located underneath the rear tailboard.</p>	6	FE
74-L2-4020		Light - LED License, Whelen OAOCEDCR	1	FE
74-P2-9220		<p>Lights (2) - 12 Volt LED Scene, FireTech Guardian FT-GSM</p> <p>There will be one-(1) light located on each side of the apparatus directly behind the cab front doors in the raised roof section. The lights will be controlled by switches in the cab labeled LEFT SCENE LIGHTS and RIGHT SCENE LIGHTS.</p> <p>There will be two-(2) lights installed on each side of the apparatus on the upper front and rear corners of the body. The lights will be controlled by switches in the cab labeled LEFT SCENE LIGHTS and RIGHT SCENE LIGHTS.</p> <p>There will be one-(1) light installed on each side of the apparatus on the upper rear of the unit below the warning lights. The lights will be controlled by switch in the cab labeled REAR SCENE LIGHTS.</p>	4	FE
74-P4-0620		Cab Scene Light Activation - Respective Cab Door	1	FE
74-P4-6420		Upper Rear Scene Light Activation - Reverse Circuit	1	FE
74-Q8-9425		<p>Light - 12 Volt 75" LED Brow w/DOT Lights, FireTech FT-B-72-ML-W (White Housing)</p> <p>The light will be centered across the front of the cab.</p> <p>The cab mounted scene light shall be controlled by a switch in the cab labeled FRONT SCENE.</p>	1	FE
74-S2-0420		Telescoping Light Locations - Back of Cab	1	FE

PART NO	S	DESCRIPTION	QTY	ID
74-S2-1220	S	Light - 12-Volt 20,000 Lumens LED Telescoping, Fire Tech FT-SL-15-FT-W	2	FE
74-S8-0420		Switch - Telescoping Light Activation, Pump Panel	2	FE
		== Paint - SM Extruded - 1021.001 10/13/21 ==	1	FE
80-C2-0220		Paint - Body/Cab	1	FE
80-C2-0420		Paint Color/Code: Red FLNA 31979 (FFA Red 1)	1	FE
80-D2-0620		Paint - Interior Compartment, "F-Shield" Extruded Bodies	1	FE
80-E8-0220		Striping - Rear Body, Reflective Chevron	1	FE
80-E8-1020		Chevron Striping Colors: Reflexite Red & Yellow	1	FE
80-E8-4020		Reflective Material - Designated Walking Surfaces	1	FE
		== Warranty / Manuals - Pumpers Custom - 1021.001 10/13/21 ==	1	FE
98-A2-0420		Warranty - Body Material & Workmanship, 2-Year / 36,000 Miles	1	FE
98-A2-1020		Warranty - Custom Chassis Material & Workmanship, 2-Year / 36,000 Miles	1	FE
98-A4-0210		Warranty - Cab Structural, 10-Year / 100,000 Miles (Aluminum)	1	FE
98-A4-0420		Warranty - Body Structure, 10-Year / 100,000 Miles (Aluminum)	1	FE
98-A6-0210		Warranty - Cab Paint / Perforation, 10 Year	1	FE
98-A6-0220		Warranty - Body Paint / Perforation, 10 Year	1	FE
98-A6-1020		Warranty - Frame Corrosion F-Shield, 10-Year / 100,000 Mile	1	FE
98-A8-0220		Warranty - Frame Assembly Structure, 20-Year / 100,000 Mile	1	FE
98-A8-1220		Warranty - Axles, Hendrickson / Meritor	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-A8-6220		Warranty - Waterous Pumps	1	FE
98-A8-8020		Warranty - Plumbing System, 10-Year / 100,000 Miles	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-B2-2220		Safety Guide - FAMA	1	FE
98-B2-6020		Wiring Diagrams - Cab/Chassis, Standard	1	FE
98-B2-6620		Wiring Diagrams - Apparatus Body, Standard	1	FE
		== Loose Equipment Pkg. - Pumper - 1021.001 10/13/21 ==	1	FE
90-A2-0220		Equipment Package - NFPA 1901 2016, 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-H2-0620		Hose (2) - Tank-Flex Hard Suction, Firequip 10' x 6"	1	FE
92-C4-6220		Elbow - 4" FNST RL x 5" Storz 30 Degree, Kocheck SKE45R	1	FE
		The elbow will be located on the right side 4" discharge.		
92-F4-0820		Cap w/Chain - 5" Storz, Kocheck CC507	1	FE
		The cap will be located on the right side 4" discharge elbow.		