

ACCEPTANCE OF SHOP ORDER AND APPROVAL DRAWINGS

We appreciate your order for a Ferrara apparatus. In order to confirm our mutual understanding of the vehicle we will be building for you; we ask that you carefully review the enclosed shop order and approval drawings. If these documents meet with your approval, we ask that you initial at the bottom of each page of the shop order, sign the approval drawings and this acceptance form and return each set of the original documents to Eric Adams within 14 days of receipt. We also suggest that you retain a copy of each set of documents for your files.

The approval drawings and shop order are the plans and instructions we will use to build your vehicle and to ensure that it is built to your specific criteria. As your vehicle moves through our production process, these documents will be used for all inspections and quality assurance. Any modifications or changes you wish to make to your vehicle after acceptance by you of the shop order and approval drawings must be accompanied by a written change order request that we provide. The change order request will be reviewed by engineering for approval. These change orders must be acknowledged and approved by both parties and will supersede any previously issued specifications and approval drawings with regards to the changed items only. Each change order issued after acceptance of these shop order and approval drawings will result in an administrative change order fee of \$150 per change order in addition to the price of the items changed. Major body changes will not be allowed after the unit has entered the construction process.

If you have any questions with regard to the enclosed documents, please contact your sales representative. We appreciate your business and look forward to providing you with the best built apparatus in the industry.

Ferrara Truck Number: H/22/
Department/Customer: Bulldog Fire Apparatus Invader Retail Unit
Signature:
Printed Name:
Title:
Date:





Bulldog Fire Apparatus Invader Retail Pumper jvn@FF1.com

Exp. Date: 11/19/2022 **Create Date:** 10/20/2022 **Rev. Date:** 10/18/2023

Ouote No: BFAInvaderPumper-0001

Job/Order No: H7227

PUMPER: FMP-35-100 Custom Pumper - Extruded / Modular

LEGALS: FFA-00-300 Legals - Pumpers (1022V1)
CHASS-CUSM: FCH-30-100 Chassis - Custom Tilt Cab

CHASS-MODS: FCM-70-100 Chassis Modifications - Spartan Chassis

PUMP-ENC: FPE-20-100 Pump Enclosure - Side Mount

BODY: FBP-33-200 Body - Extruded Pumper (500-1250 Gallons)

BODY-CMNT: FBC-30-100 Body Components - Pumpers

ELE-CMPNT: FEC-30-200 Elec. Components - Pumper Custom

PAINT: FPC-10-200 Paint - Extruded Bodies

WRNTY-MNLS: FWM-50-100 Warranty / Manuals - Pumpers Custom

EQUIPMENT: FEP-30-100 Loose Equipment Pkg. - Pumper

10/18/2023 Page 1

PART NO S	DESCRIPTION	QTY	ID
	== Legals - Pumpers (1022V1) - 1022.001 10/01/22 ==		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	Principal Dimensions	1	FE
	The apparatus shall have the following approximate dimensions:		
	Overall Length: 32' 3-3/4"		
	Overall Height: 9' 7-1/2"		
	Wheelbase: 186"		
	Cab to Axle: 126"		
00-12-0820	Certified Welders	1	FE
00-14-0620	Drawings - Approval	1	FE
00-18-0820	Vehicle Transportation - DEALERS ONLY!!!!!!!	1	FE
00-18-2020 X		1	FE
	The pumper / tanker apparatus will have the following delivery sche	dule	
	after receipt of the order.		
	Commercial Pumper / Tanker: 780 Days		
	Custom / Commercial Industrial Pumper / Tanker: 810 Days		

Custom Pumper / Tanker: 720 Days The manufacturer will not be held liable for changes arising from failure to make or delay in making delivery because of fire, flood, strike, riot, supply chain, work force shortages, accidents, acts of God or circumstances beyond our control. = Chassis - Custom Tilt Cab - 1022.001 10/01/22 == Chassis - Spartan Invader EMPD (10" Raised Roof / 47K GVW / L9 450 Engine) Make / Model: Spartan Invader Year Model: Spartan Invader Year Model: 2025 Cab: EMFD w/10" raised roof and full length doors Cab Color: Red FLNA 31979 Engine: Cummias L9 450 horsepower Transmission: Allison 3000 EVS Wheelbase: 186" Rear Overhand: 52" Pump Set (C/L of suction to CL rear axle): 96" Pump Set (C/L of suction to CL rear axle): 90" Additional Spartan Provided Options: Weldon VMUX Electrical System w/Driver's Vista Screen 6-Place Blue Sea Fuse Block (Behind Driver's Seat) Pump Shift Controls Aluminum Wheels Electronic Stability Control Front & Rear Disc Brakes Steel Channel Front Pumper (Red) 21" Front Bumper Extension w/Gravelshield 5" Front Suction Fiping (RH OB) 2" Front Jump Line Piping (LH) Center Bumper Compartment w/Seat Belt Straps Dual Hadley Air Horns (R / L OB) w/Switches CP1 100 Watt Speaker (RH OB) Fully Recessed Mount Q2B Siren (LH OB) Power Windows Bostrom SecureAll SCBA seat Brackets Jump Studs (Driver's Step Well Area)	10/18/2023 PART NO S	DESCRIPTION	QTY	Page 2
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Jump Studs (Driver's Step Well Area)				
· And Andrews Andrews				
INDUITION DELLA TOTAL MAN		Kussmaul Battery Charger		

PART NO S	DESCRIPTION Auto Eject Receptacle (DS Cab Wheel Well)	QTY	
	Auto Eject Receptante (25 cms 11201 1102)		I
	Yellow Cover w/Integrated Display		
	LED Headlights		
	Whelen 72" Freedom Light Bar		
	FireTech 46" Brow Light (White Housing)		
	Whelen M6 Series Front Turn Signals		
	Whelen M6 Series Red / Blue Front Warning Lights		
	Whelen M6 Series Red / Blue Bumper End Warning Lights		
	Whelen Pioneer Surface Mount Scene Lights (Cab Sides)		
	Whelen PFH2 Telescoping Lights (Back of Cab)		
	FRC Max Vision Cab Water Level Lights		
	Whelen 295HFS2 Siren		
	== Chassis Modifications - Spartan Chassis - 1022.001 10/01/22 ==		FE
10-H4-1830	Fire Pump Installation (Spartan Chassis Only)	1	FE
18-M8-8020	Camera Installation - Chassis Supplied	1	FE
10-1/10-0020	The Spartan / Ford supplied back-up camera will be installed on the	rear	
	of the apparatus and connected to the cab monitor.		
	NFPA SAFETY SIGNS		FE
18-P2-0220	Safety Signs - General Requirements	1	FE
18-P2-2420	Safety Sign - Cab Seating, FEMA14	1	
10-12-2420	This vehicle has a seating capacity of 6 personnel.		
	This venicle has a seating capacity of o personner.		
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-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	1	FE
	== Pump Enclosure - Side Mount - 1022.001 10/01/22 ==		FE
20-A2-0220	Pump Module - Side Mounted Extruded / Modular	1	FE
20-A4-2220	Separate Pump Module - Extruded / Modular	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-D6-0220	Light - Left Side Pump Panel, LED Strip	1	FE
20-D6-1220	Light - Right Side Pump Panel, LED Strip	1	FE
20-D8-0620	Light - Pump Compartment, LED	1	FE
20-F2-1820	Steps - Intermediate Pump Panel, Left / Right Side	1	FE
20-F4-0420	Running Boards - Aluminum Tread Plate, Left & Right Side	1	FE
20-F4-2020	Hose Tray - Running Board	1	FE
	The tray will be located in the driver's side pump panel running b	oard	
	and will house 25' of 5" large diameter supply hose.		
	110		

PART NO	DESCRIPTION	QTY	ID
20-F4-2620	Hose Tray Mounting - Floating/Drop In Style w/45-Degree Bottom	1	FE
20112020	Corners		
20-G4-2220	Handrails (2) - Above Dunnage Area, 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" White Face	1	FE
20-J4-1620	Pressure Governor - FRC Pump Boss PBA500-D10	1	FE
20-J4-4020	Return Line - Fill Subsurface	1	FE
20-J6-0220	Gauges - 2-1/2" Pressure, White Face	1	FE
20-J6-6220	Gauge Bezels - Color Coded	1	FE
20-M4-0220	Tags - Pump Panel, Color Coded (Metal)	1	FE
20-141-1 0220	PUMP / COMPONENTS / ACCESSORIES		FE
22-A2-0420	Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220	Packing Glands - Hale	1	FE
22-J2-0220	Primer - Pump, Hale Model ESP (Oil Less)	1	FE
22-92-0220 22-P2-0220	Valve - Master Pump Drain	1	FE
22-P2-1220	Valve - Individual Drain, 3/4" 1/4 Turn	1	FE
22-R2-0220	Pump Test Points - Hale Pumps	1	FE
22-R2-0220 22-R2-2020	Certification - Pump, 1750 GPM Pump	1	FE
22-R2-2020 22-R4-0420	Plate - Pump Test Certification	1	FE
24-A2-1620	Steamer Inlets - 6" w/Long Handle Cap, Left & Right Side	1	FE
	S Suction - Front, 5"	1	FE
24-02-1220	Two-(2) 3/4" ball valves will be provided for the front suction locat	ed at	
	the lowest points of the plumbing and will be properly labeled. The v	alves	
	shall have a cast bronze body, with a 1/4 turn, chrome plated bronze	ball.	
	reinforced Teflon seals, and blow-out-proof stem rated to 600 PSI.	, =,	
	Temporeta Temon seals, and blow out proof stem rated to 500 2 22.		
24-C2-4620	Control - Front Suction, Manual Valve	1	FE
24-02-4020	The handwheel control shall be a Trident brand with center posi	tion	
	indicator.		
	mulcator.		
24-D8-0220	Plumbing - Front Suction, Stainless Steel	1	FE
24-B3-0220 24-E2-6000	Valve - Front Suction Relief	1	FE
24-E2-0000 24-G2-0620	Swivel - Front Suction, 6"	1	FE
24-J8-0420	Valve - Intake Relief	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
24-30-0820 24-T2-0420	Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-12-0420 24-T2-0620	Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-12-0020 24-W2-0220	Plumbing - Stainless Steel	1	FE
24-W4-0220	Plumbing Finish - Natural	1	FE
26-A2-0220	Apparatus Valves - Akron Brass 8800 Series	1	FE
26-D2-0420	Suction - Left Side, 2-1/2" Valve w/Swing Control at Valve	$\begin{bmatrix} \bar{1} \end{bmatrix}$	FE
28-00-0100	DISCHARGE OUTLETS - SIDE MOUNT	1	FE
28-00-0100 28-00-0420	All 2-1/2" Side Discharge Outlets Terminate REMOVABLE	$\begin{vmatrix} 1 \end{vmatrix}$	FE
20-00-0420	30-Degree Elbows	-	
28-A2-0220	Discharge - Front Bumper w/ Swivel - thru Tread Plate (DS)	1	FE
	S Discharge - Front Bumper, 2" Valve w/Push Pull Control	$\begin{vmatrix} 1 \end{vmatrix}$	FE
20-/10-U22U	Discharge - From Dumper, 2 Ture wit usu I am Como	-	

PART NO S	DESCRIPTION	QTY	ID
28-A8-6020	Discharge - Swivel Stop, Tread plate	1	FE
28-D2-0420	Crosslays (2) - Single Lay, 2" Valve w/Push Pull Control	1	FE
20-102-0420	The crosslays will have a minimum capacity of 200' of 1-3/4" of do	uble	
	jacket fire hose w/nozzle.		
	jacket me nose windzzie.		
28-D6-0220	Crosslay - Single Lay, 2-1/2" Valve w/Push Pull Control	1	FE
20 20 0220	The crosslays will have a minimum capacity of 200' of 2-1/2" of do	uble	
	jacket fire hose w/nozzle.		
	Jucket into hose Wildelies		
28-D8-0820	Cover - Hypalon w/End Flaps, Crosslays	1	FE
28-D8-4420	End Flaps - Cargo Net w/Seat Belt Buckles, Crosslays	1	FE
28-D8-6220	Cover/End Flaps Color: Black	1	FE
28-H8-0420	Discharges (2) - Left Side, 2-1/2" Valve w/Push-Pull Control	1	FE
28-K4-0220	Discharge - Right Side, 2-1/2" Valve w/Push-Pull Control	1	FE
28-K4-6220	Discharge - Right Side, 4" Valve w/Handwheel Control	1	FE
	The handwheel control shall be a Trident brand with center posi	tion	
	indicator.		
28-Q2-0820	Discharge - Deck Gun, 3" Valve w/Handwheel Control	1	FE
	The handwheel control shall be a Trident brand with center posi	tion	
	indicator.		
28-V2-1020	Discharge - Left Rear, 2-1/2" Valve w/Push-Pull Control	1	FE
28-V8-8020	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident	1	FE
	01.010.0	_'	
28-W2-1020	Discharge - Right Rear, 2-1/2" Valve w/Push-Pull Control	1	FE
28-W8-8020	Elbow - 2-1/2 FNST x 2-1/2" MNST Chrome 30 Degree, Trident	1	FE
	01.010.0		P. F.
	== Body - Extruded Pumper (500-1250 Gallons) - 1022.001 10/01/22		FE
			10000
	WATER TANKS / COMPONENTS / ACCESSORIES	,	FE
32-A2-2820	Water Tank - Polypropylene, 750 Gallons	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE FE
32-A6-0220	Special Tank Configuration - "L" Shaped	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE
32-D8-0420	Certification - NFPA Water Tank Size	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE
34-A2-1220	Gauge - Water Level, Tank Vision Pro WLA300-A00	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE
52-A2-0220	Body - 96" Wide, Extruded Aluminum	1 1	FE
52-A6-4020	Body Sub Frame - Extruded Aluminum	$\begin{bmatrix} & 1 \\ & 1 \end{bmatrix}$	FE
52-A6-6020	Body/Compartment Construction - 96" Wide Body	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	FE
52-A6-8020	Compartment Tops/Catwalk - Standard	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE
52-A8-0420	Wheel Well Panels & Fenders - Body, Painted Aluminum	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	FE
52-A8-0620	Fenderettes - Polished Stainless Steel	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	FE
52-A8-1020	Hose Bed - 67-1/2" Wide	$\begin{vmatrix} & 1 \\ 1 \end{vmatrix}$	FE
52-D6-4220	Compartments- Left Side, Rescue Style	*	
	L1 There shall be one-(1) left front compartment installed ahead of the	rear	
	axle. The interior dimensions will be approximately 31" wide x 72" h	oh v	
	25" deep in the lower section and 12" deep in the upper section.	*** ^	
	25 ucep in the lower section and 12 ucep in the upper section.		

10/18/2023 PART NO S	DESCRIPTION	QTY	ID
	L2 There shall be one-(1) compartment installed above the wheel well. interior dimensions will be approximately 58" wide x 40" high x deep.	The 12"	
	L3 There shall be one-(1) left rear compartment installed behind the raxle. The interior dimensions will be approximately 48" wide x 72" htransverse in the lower section and 12" deep in the upper section.	ear igh x	
52-F4-2040	Compartments - Right Side, Low Side R1 There will be one-(1) right front compartment installed ahead of the axle. The interior dimensions will be approximately 31" wide x 28" has 25" deep.	1 rear igh x	FE
.a.	R2 There will be one-(1) right rear compartment installed behind the raxle. The interior dimensions will be approximately 48" wide x 28" htransverse.	ear igh x	
52-J8-0420	Compartment - Center Rear, Standard Height B1 There shall be one-(1) compartment installed at the center rear of apparatus. The compartment shall have an interior dimension approximately 46" wide x 28" high x 30" deep.	the of	FE
56-D8-0220	Compartment Doors - Hinged, Flush Look There will be a hinged door installed on compartment R1 compartment R2.	2 and	FE
56-D8-0620	Compartment Door - Roll Up, Satin Finish There will be a ROM satin finish door installed on compartment compartment L2, compartment L3 and compartment B1.	4 L1,	FE
56-D8-1020	Door Extension - Paddle Latch (Hinged Doors Only) The paddle latch extension will be installed on compartment R2.	1	FE
56-D8-1420	Pull Down Strap - Compartment Door There will be a pull down door strap installed on compartment compartment L2 and compartment L3.	3 L1,	FE
56-D8-4020	Keyed Lock - Compartment Door The keyed lock will be installed on compartment L1 roll-up door.	1	FE
56-D8-4620	Drip Pan - Door Interior (Roll Up Doors Only) There will be a interior drip pan installed on compartment	4 L1,	FE

10/18/2023 PART NO S	DESCRIPTION	QTY	ID
TARTINO	compartment L2, compartment L3 and compartment B1.	1,	
58-A0-0420	Rear Body Construction - Flat Back Design		FE
58-A0-1820	Step - Intermediate Rear, Aluminum Tread Plate	1	FE EE
60-A2-4820	Vertical Load Test - Body	1 1	FE FE
62-A2-0220	Brackets - Extension/Roof, Right Side of Body	1	FE
62-B2-1220	Tubes (2) - Pike Pole Storage The tubes will be located on top of right side compartments inboar	_	I'L
	the attic ladder.	. 01	
	The tubes will be notched for NY roof hooks.		
64-B2-0620	Compartment - Wheel Well Triple Air Bottle (FFA)	2	FE
	There will be a triple bottle compartment located in the driver's officer's rearward wheel well panels.	nd	
64-B2-1020	Compartment - Wheel Well Double Extinguisher (FFA)	1	FE
	There will be a double bottle compartment located in the officer's fr wheel well panel.	ont	
	The door will be a triple bottle style door.		
64-B2-1420	Compartment - Wheel Well Equipment Storage (FFA)	1	FE
	There will be an equipment storage compartment located in the drive front wheel well panel.	r's	
64-B8-0220	Doors - Wheel Well Compartments, Stainless Steel	1	
66-A2-0220	Body Trim Package	1	
66-A2-0620	Body Trim - Vertical Handrails (2), Knurled Aluminum	1	FE
66-A2-1221 U	Body Trim - Rear Stanchion	1	
	The officer's side stanchion will extend no further than the side of body and shall be positioned so the top of the lights does not exceed body height.	the I the	
66-A2-2420	Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420	Mud Flaps - Rear	1	
66-A2-4620	Rub Rail - Extruded Aluminum	1	FE
66-A4-1040	Step - 12" Rear, Aluminum Tread Plate	1	FE
	The corners of the rear step will be cut at a 45 degree angles.		
66-A4-4420	Step - Chrome Folding, Front of Body There will be three-(3) steps on the left front compartment face a	5 nd	FE
	two-(2) on the right.		
66-A4-6220	Step - Chrome Folding, Rear of Body	4	FE
	There will be two-(2) steps located on each side of the appara outboard of compartment B1.	tus	

PART NO S			
	DESCRIPTION The Form (2) Poor Polony Pody	QTY	ID FE
66-A4-8820	Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220	Handrail - Below Hose Bed, Knurled Stainless Steel	1	FE.
66-A6-2820	Handrail - Between Stanchions, Knurled Stainless Steel	2	FE
66-A6-6420	Handrail - Front of Body, 12" Knurled Stainless Steel	2	T.E
	The handrails will be mounted at final inspection.		
66-A8-1625	Divider - Hose Bed, Pumper (Heavy Duty)	3	
66-A8-4220	Cover - Hose Bed, Hypalon	1	FE
6-A8-7620	End Flap - Cargo Net w/Seat Belt Buckles, Hose Bed	1	FE
6-A8-8220	Cover/End Flap Color: Black	1	FE
6-A8-8820	Hose Bed Capacity	1	FE
	The hose bed shall have the capacity to hold the following (left to righ	t:	
	500' 1 3/4" DJ hose (double stack above D/S discharge)		
	500' 3" DJ hose		
	1000' 5" Rubber LDH		
	250' 2 1/2" DJ Hose (single stack above P/S discharge)		
	A safety sign FAMA22, which warns of the need to secure hose, sha visible to personnel at the hose storage area.	l be	
	== Body Components - Pumpers - 1022.001 10/01/22 ==		FE
	== Elec. Components - Pumper Custom - 1022.001 10/01/22 ==		FE
	**** ELECTRICAL / COMPONENTS / ACCESSORIES ****		FE
70-A2-2032	Electrical System - Apparatus Body, Point to Point	1	FE
0-A2-4020	Electrical System - 12 Volt Testing	1	FE
70-A2-6020	12-Volt Wiring Protection - Split Loom	1	FE
0-A2-8020	EMI/RFI Protection	1	FE
U-A2-8020	AUDIBLE WARNING DEVICES		FE
	INTERIOR COMPARTMENT LIGHTING		FE
70 E2 2220		12	
70-E2-2220	Light - Compartment, LED Strip There will be two (2) lights installed in each compartment	1-	
	There will be two-(2) lights installed in each compartment.		
′0-H2-0220	Switch - Compartment Door Ajar Indicator	1	FE
72-R8-4020 S	Zone C Upper Lights (2) - Red LED Beacons, Whelen B6LED B6MMRBP	1	FE
	L31 Beacon Color: Red		
	700 Warning Color: Blue		
/4-D8-8820	Zone B & D Lower Midship (2) - Red/Blue w/Clear Lens M6 LED, Whelen M6J	1	FE
	There will be one-(1) light located on each side of the apparatus in	the	
	body wheel well area.		l

10/18/2023 PART NO S	DESCRIPTION	OTY	ID
PART NO S 74-G8-1420	Zone B & D Lower Rear (2) - Red/Blue w/Clear Lens LINZ6 LED,	1	FE
/4-G0-1420	Whelen LINZ6J		
	There will be one-(1) light located on each side of the apparatus be	low	
	compartment L3 / R2.		
	compartment 25 / 22		
74-H8-2020	Zone C Lower Lights (2) - Red w/Clear Lens M6 LED, Whelen M6RC	1	FE
74 110 2020	There will be one-(1) light located on each side of the apparatus in	the	
	rear tail light housings.		
	1000 to a a gard and a company		
74-J4-0620	Stop/Turn/Reverse Lights - LED, Whelen M6	1	FE
74-J4-2620	Housing - Rear Tail Light Assembly, M6FCV4	1	FE
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12-VOLT APPARATUS LIGHTING / ACCESSORIES		FE
74-L0-2220	Lights - LED Clearance and Maker	1	FE
74-L2-0420	Light - LED Underbody	10	FE
	Make / Model: Luma Bar H20 AY-9500-012		
Ti.			
	Locations: Under all cab doors (Invader chassis includes pre-w	ire	
	provisions), under both pump panels, beneath L3 and R2, and tw	o (2)	
	under the tail board		
	The lights shall be controlled by a switch in the cab or when the par	king	
	brake is set.		
74-L2-4020	Light - LED License	1	FE
74-L2-4420	Light - LED Perimeter Illumination	3	FE
	Make / Model: Whelen OS Series 0SC0EDCR		
	The lights will be located along the front bulkhead of the hose bed as	high	
	as possible.		
	The lights will be controlled by a rocker switch on the left rear of	the	
	apparatus next to the rear scene light switch.		
74-P2-2220 U	Light - Single Pioneer LED Scene, Whelen Pioneer Plus PCPSM1C	1	
	The light will be located on upper left rear of the body.		
74-P4-0220	Switch - Additional, Scene Light Activation	1	FE
	In addition to the reverse circuit and dash mounted switch, the		
	scene light shall be controlled by a switch on the left rear of	the	
	apparatus next to the hose bed light switch.		
74-P4-6420	Upper Rear Scene Light Activation - Reverse Circuit		FE
74-S8-0420	Switch - Telescoping Light Activation, Pump Panel	2	FE
	There will be two-(2) switches on the left pump panel to control	the	
	respective side telescoping light.		
			EE
	== Paint - Extruded Bodies - 1022.001 10/01/22 ==		FE

10/18/2023 PART NO S	DESCRIPTION	OTY	Page
PART NO S 80-C2-0230	Paint - Body	1	
80-C2-0420	Paint Color/Code: Red FLNA 31979 (FFA Red 1)	$ \hat{1} $	FE
80-D2-1220	Interior Compartment Finish - Natural	1	FE
80-D2-1220 80-E2-2020	NFPA Striping - Customer / Dealer Supplied	$ \hat{j} $	FE
	Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0220		1	FE
80-E8-0620	Chevron Striping Colors: 3M Red & Lime Green	1 1	FE
80-E8-4020	Reflective Material - Designated Walking Surfaces	$\begin{vmatrix} & 1 \\ 1 \end{vmatrix}$	FE
80-G2-0820	Lettering Package - Customer / Dealer Supplied		FE
00 10 0100	== Warranty / Manuals - Pumpers Custom - 1022.001 10/01/22 ==	1	FE
98-A2-0420	Warranty - Body Material & Workmanship, 2-Year / 36,000 Miles (RFW0002)		
98-A4-0420	Warranty - Body Structure, 10-Year / 100,000 Miles (Aluminum - RFW0502)	1	FE
98-A6-0220	Warranty - Body Paint / Perforation, 10 Year (RFW0710)	1	FE
98-A8-6020	Warranty - Hale Pumps	1	FE
98-A8-8020	Warranty - Plumbing System, 10-Year / 100,000 Miles (RFW0801)	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-B2-2220	Safety Guide - FAMA	1	FE
98 - B2-6620	Wiring Diagrams - Apparatus Body, Standard	1	FE
90 -D 2-0020	== Loose Equipment Pkg Pumper - 1022.001 10/01/22 ==		FE
90-A2-0220	Equipment Package - NFPA 1901 2016, Fire Department Supplied	1	FE
	The loose equipment as outlined in NFPA 1901, 2016 edition, section 5. 5.9.4 shall be provided by the fire department unless it is listed in proposal. All loose equipment shall be installed on the apparatus be placed in emergency service, unless the Fire Department authorized against the State of Exception as listed in the NFPA 1901 Standard Automotive Fire Apparatus sections 4.21 thru 4.21.2.	this fore ent	
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-G4-1020	Bracket - Attic Ladder Right Side, Ziamatic FLBA (Alco-Lite)	1	FE
96-C2-0220	Wheel Chocs (2) - Folding, Ziamatic SAC-44-E	1	FE
96-C2-0420	Holders (2) - Wheel Chocs, Ziamatic SQCH-44-H	1	FE
70-62-0420	The holder will located below compartment L1.		
	The holder will located below comparement 22.		
) Yi

Invader

Ferrara Fire Apparatus 27855 James Chapel Road Holden, LA 70744

Prepared By: ERIC ADAMS

800-443-9006

eadams@revgroup.com

Prepared For: MARC MAZZA

BULLDOG FIRE APPARATUS

Wednesday, October 18, 2023 12:26:11 PM CDT

Price Level: 202308252025A

Quote Id: QA4FPPFBM, Revision Level: -3

Phone: 800-443-9006

Order Id:

Lead Unit Order Id:

Prepared For MARC MAZZA BULLDOG FIRE APPARATUS

Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

Table of Contents

Quotation	
Panel Layout	14
5020-002 Panel Layout	15
Weight Distribution	17
Seat Locations	18
Frame Dimensions	19
Turning Radius	20
Cab Glass	21

Prepared By ERIC ADAMS Quote Id: QA4FPPFBM,Revision Level: -3

Phone: 800-443-9006

Order Id:

Lead Unit Order Id:

Prepared For MARC MAZZA **BULLDOG FIRE APPARATUS**

Sales Order Number: QA4FPPFBM

Lead Sales Order Number:

QA4FPPFBM

Ouotation

Quotation	Description	Qty
VEHICLE		
MODEL	Invader	58 ()
CUSTOMERS / OEMS	Ferrara Fire Apparatus (11150)[1000016]	
MODEL YEAR	Model Year - 2025	
COUNTRY OF SERVICE	Country of Service United States Of America	A1 E3
CAB AND CHASSIS LABELING LANGUAGE	Cab and Chassis Labeling Language English w/Innovative Controls Labels	(t)
APPARATUS TYPE	Apparatus Type Pumper	3
VEHICLE TYPE	Vehicle Type Straight Truck	
VEHICLE ANGLE OF APPROACH PACKAGE	Vehicle Angle of Approach NFPA Minimum 8.00 Degrees	
AXLE CONFIGURATION	Axle Configuration 4x2 (Rear Axle Drive Only)	Ĉ
GROSS AXLE WEIGHT RATINGS FRONT	GAWR Front 20000#	8
GROSS AXLE WEIGHT RATINGS REAR	GAWR Rear 27000#	9
PUMP PROVISION	Pump Provision Driveline Midship, Pump Mode Prog w/Auto Park Brake "N"	
WATER & FOAM TANK CAPACITY	Water & Foam Tank Capacity 750 to 1250 Gallons	
CAB		
CAB STYLE	Cab Style EMFD 10" Raised Roof	
CAB FRONT FASCIA	Cab Frt Fascia Classic w/Quad Headlight Bezels	0.0
FRONT GRILLE	Cab Frt Grille Ferrara	3
CAB UNDERCOAT	Cab Undercoat	
CAB SIDE DRIP RAIL	Cab Side Drip Rail	
CAB PAINT EXTERIOR	Cab Paint Exterior Single Color	
CAB PAINT PROCESS/MANUFACTURER	Cab Paint Process/Manufacturer Sikkens	
CAB PAINT PRIMARY/LOWER COLOR	Cab Paint Primary/Lower Color Sikkens Red FLNA 31979	
CAB PAINT WARRANTY	Cab Paint Warranty (10) Year RFW0710	
CAB PAINT INTERIOR	Cab Paint Int Multi-tone Onyx Blk	
CAB ENTRY DOORS	Cab Entry Doors (4)	
CAB ENTRY DOOR TYPE	Cab Entry Door Type Full Length w/Pollak Switches	
CAB INSULATION	Cab Insulation Nonwoven Polyester Fiber	
CAB STRUCTURAL WARRANTY	Cab Structural Warranty (10) Year RFW0602	
CAB TEST INFORMATION	Cab Test Information Crash Test ECE-R29/SAE J2420/SAE J2422	
ELECTRICAL POWER DISTRIBUT	ΓΙΟΝ	
ELECTRICAL SYSTEM	Elec System 12V DC Multiplex	
APPARATUS WIRING PROVISION	Apparatus Wiring Provision (8) Circuit Panel	3
VEHICLE DISPLAY	Vehicle Display Weldon Vista LH Sw Pnl	3
LOAD MANAGEMENT SYSTEM	Load Management System Multiplex	3

Prepared By ERIC ADAMS Quote Id: QA4FPPFBM,Revision Level: -3 Phone: 800-443-9006

Price Level: 202308252025A

Order Id:

Lead Unit Order Id:

Prepared For MARC MAZZA BULLDOG FIRE APPARATUS

Sales Order Number: QA4FPPFBM

Lead Sales Order Number:

DATA RECORDING SYSTEM	Data Recording Sys Vehicle Data Weldon MUX	1
ACCESSORY POWER	Accessory Pwr & Gnd Stud 40A Batt Dir & 15A Ign Sw & 225A Batt Dir OEM Conn	1
AUXILIARY ACCESSORY POWER	Aux Acc Pwr 6 Fuse Blue Sea Pnl Bhd Drv Seat w/40A Fuse Batt Dir	1
EXTERIOR ELECTRICAL TERMINAL COATING	Exterior Electrical Terminal Coating Spray On Plasti Dip	1
ELECTRICAL SYSTEM WARRANTY	Electrical System Warranty (2) Year RFW0202	1
ENGINE		
ENGINE	Engine Diesel 450HP Cummins L9 - EPA 2021-26	1
CAB ENGINE TUNNEL	Cab Engine Tunnel Small/Medium	1
DIESEL PARTICULATE FILTER CONTROLS	DPF Ctrl Regeneration Sw & Inhibit Sw	1
ENGINE PROGRAMMING HIGH IDLE SPEED	Engine Programming High Idle Speed 1250 RPM	1
ENGINE HIGH IDLE CONTROL	Engine High Idle Ctrl Manual and Automatic w/Disp Actv	1
ENGINE PROGRAMMING ROAD SPEED GOVERNOR	Engine Programming Road Speed Governor Enabled	1
AUXILIARY ENGINE BRAKE	Aux Engine Brake Compression Brake w/VG Turbo	1
AUXILIARY ENGINE BRAKE CONTROL	Aux Engine Brake Ctrl Off/Low/Med/High Disp	1
ELECTRONIC ENGINE OIL LEVEL INDICATOR	Elec Engine Oil Level Indicator	1
FLUID FILLS	Fluid Fills Under Cab	1
ENGINE DRAIN PLUG	Engine Drain Plug	1
ENGINE WARRANTY	Engine Warranty Cummins (5) Year/100,000 Miles	1
REMOTE THROTTLE HARNESS	Rmt Throttle Harness Cab Harness Only Shift Interlock	1
ENGINE PROGRAMMING REMOTE THROTTLE	Engine Program Rmt Throttle Off	5 1
ENGINE PROGRAMMING IDLE SPEED	Engine Programming Idle Speed 700 RPM	1
AIR INTAKE		
ENGINE AIR INTAKE	Engine Air Intake Filtration and Restriction w/Replaceable Element Abv Radiator	1
COOLING		
ENGINE FAN DRIVE	Engine Fan Drive Variable Speed Engaged in Pump Mode	1
ENGINE COOLING SYSTEM	Engine Cooling System Serial Flow w/Package Drop-Out Prov	1
ENGINE COOLING SYSTEM PROTECTION	Engine Cooling System Protection Light Duty Skid Plate Paint Frame Color	1
ENGINE COOLANT	Engine Coolant Extended Life	1
ELECTRONIC COOLANT LEVEL INDICATOR	Elec Low Coolant Level Indicator	1
ENGINE PUMP HEAT EXCHANGER	Engine Pump Heat Exchanger	1
COOLANT HOSES	Coolant Hoses Silicone	1
ENGINE COOLANT OVERFLOW BOTTLE	Engine Coolant Overflow Expansion Bottle	1

Quote Id: QA4FPPFBM, Revision Level: -3

Phone: 800-443-9006

Order Id:

FUEL LINES

FUEL TANK

FUEL SHUTOFF VALVE

ELECTRIC FUEL PRIMER

Price Level: 202308252025A

FUEL TANK MATERIAL AND FINISH

FUEL TANK STRAP MATERIAL AND

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QA4FPPFBM

EXHAUST Eng Exhaust Sys Under Frm RH Single Module Aftertreatment Outboard 1 ENGINE EXHAUST SYSTEM Diesel Exhaust Fluid Tank LH 6 Gal Fill Thru Rr Step 1 DIESEL EXHAUST FLUID TANK Engine Exhaust Acc Temp Mitigation **ENGINE EXHAUST ACCESSORIES** Engine Exhaust Wrap ENGINE EXHAUST WRAP Emissions System Warranty (5) Year/100,000 Miles RFW0140 EMISSIONS SYSTEM WARRANTY TRANSMISSION 1 Transmission Allison 3000 EVS TRANSMISSION 1 Transmission Mode Programming 5th Startup/6th Mode TRANSMISSION MODE PROGRAMMING Transmission Feature Programming Allison Gen 5 & 6-E I/O Package TRANSMISSION FEATURE 198/Pumper **PROGRAMMING** Transmission GEN 5 & 6-E Shift Sel Key Pad/Push Button TRANSMISSION SHIFT SELECTOR 1 Elec Transmission Oil Level Indicator ELECTRONIC TRANSMISSION OIL LEVEL **INDICATOR** 1 TRANSMISSION PRE-SELECT WITH 2nd Gear Pre-Select **AUXILIARY BRAKE** 1 TRANSMISSION COOLING SYSTEM Transmission Cooling System Transmission Drain Plug TRANSMISSION DRAIN PLUG 1 Transmission Warranty Allison (5) Year TRANSMISSION WARRANTY **POWER TAKE OFF** 1 PTO Location 8:00/4:00 PTO LOCATION DRIVELINE 1 Driveline MSI 1710 w/Meritor U-Joints w/Thrust Washers DRIVELINE Midship Pump Jackshaft Only MIDSHIP PUMP / GEARBOX Midship Pump/Gearbox Model Hale QMAX Fwd MIDSHIP PUMP / GEARBOX MODEL Midship Driveline Pump Gearbox Drop Hale "LG" MIDSHIP PUMP GEARBOX DROP Midship Pump Ratio 2.28:1 (23) MIDSHIP PUMP RATIO Midship Pump Location C/L Suction to C/L Rear Axle 96.0" MIDSHIP PUMP LOCATION C/L SUCTION TO C/L REAR AXLE Pump Shift Ctrl Air Ctrl Integrated Shifter Pod PUMP SHIFT CONTROLS Pump Shift Control Plumbing Pre-Plumb Elec/Air PUMP SHIFT CONTROL PLUMBING **FUEL SYSTEMS** Fuel Filter/Wtr Separator Fleetguard FS20121 w/Lt & Alarm FUEL FILTER/WATER SEPARATOR

Fuel Lines Wire Braid

Fuel Tank 50 Gallon

Fuel Shutoff Valve (2) at Primary Filter

Fuel Tank Material Steel & Finish Bedliner

Electric Fuel Primer Engine Sply Electric Lift Pump

Fuel Tank Strap Material SS & Finish Painted Frame Components Color

Price Level: 202308252025A

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FINISH		
FUEL TANK FILL PORT	Fuel Tank Fill Port LH Rwd/RH Mid	1
FUEL TANK SERVICEABILITY PROVISIONS	Fuel Tank Serviceability Prov 8' Fuel Line Extension	1
FUEL TANK DRAIN PLUG	Fuel Tank Drain Plug Magnetic	1
FRONT AXLE		
FRONT AXLE	Frt Axle Meritor MFS 20000# Beam	1
FRONT AXLE WARRANTY	Front Axle Warranty Meritor 2025	1
FRONT WHEEL BEARING LUBRICATION	Frt Wheel Bearing Lube Oil	1
FRONT SUSPENSION		
FRONT SHOCK ABSORBERS	Frt Shock Absorbers Bilstein	1
FRONT SUSPENSION	Frt Suspension 10 Leaf 20000-21500#	1
STEERING		
STEERING COLUMN/WHEEL	Steering Column/Wheel Tilt/Telescopic 18" 4 Spoke	1
ELECTRONIC POWER STEERING FLUID LEVEL INDICATOR	Elec Power Steering Fluid Level Indicator	1
POWER STEERING PUMP	Power Steering Pump TRW w/Passive Cooler	1
FRONT AXLE CRAMP ANGLE	Front Axle Cramp Angle 48L/44R Degrees	1
POWER STEERING GEAR	Power Steering Gear TRW TAS 65 w/Assist	1
CHASSIS ALIGNMENT	Chassis Alignment	1
REAR AXLE		
REAR AXLE	Rear Axle 27000# Meritor RS-25-160	1
REAR AXLE DIFFERENTIAL LUBRICATION	Rear Axle Differential Lubrication Oil	1
REAR AXLE WARRANTY	Rear Axle Warranty Meritor 2025	1
REAR WHEEL BEARING LUBRICATION	Rear Wheel Bearing Lubrication Oil	1
VEHICLE TOP SPEED	Vehicle Top Speed 68 MPH	1
REAR AXLE EXTERNAL VENT	Rear Axle External Vent OEM Housing Breather	1
REAR SUSPENSION		
REAR SUSPENSION	Rear Susp Reyco 79KB 27000# Parabolic 4 Leaf w/Helper	1
REAR SHOCK ABSORBERS	Rear Shock Absorbers Bilstein	1
TIRES		
TIRE INTERMITTENT SERVICE RATING	Tire Intermittent Service Ratings Acceptable	1
FRONT TIRE	Frt Tire 315/80R 22.5 Michelin XZUS 2	2
REAR TIRE	Rear Tire 12R 22.5 Michelin XDN2	4
REAR AXLE RATIO	Rear Axle Ratio 5.38	1
TIRE PRESSURE INDICATOR	Tire Pressure Ind Frt & Rr LED	1

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FRONT WHEEL	Frt Wheel Alcoa 22.5 x 9.00 Alum	
REAR WHEEL	Rr Whl Alcoa 22.5 x 8.25 Alum	
BRAKES		
BRAKE SYSTEM	Brake System ABS/ATC/ESC Sgl Axle	
FRONT BRAKES	Frt Brakes Meritor EX225 Disc 17"	
REAR BRAKES	Rr Brakes Meritor EX225 Disc 17"	
PARK BRAKE	Prk Brake Rr Wheels Only	
PARK BRAKE CONTROL	Prk Brake Ctrl LH Tunnel Mnt, Integrated w/Shift Pod, Adjacent To Trans Shifter	
AIR DRYER	Air Dryer Wabco System Saver 1200 Bhd LH Batt Box	
FRONT BRAKE CHAMBERS	Frt Brake Chambers MGM Type 24 Long Stroke	
REAR BRAKE CHAMBERS	Rr Brake Chambers TSE 24/30 H.O.T.	
AIR SUPPLY SYSTEMS		_
AIR COMPRESSOR	Air Compressor Wabco SS318 18.7 CFM	
AIR GOVERNOR	Air Governor Mnt on Air Dryer Bracket	
MOISTURE EJECTORS	Moisture Ejectors w/Cable/Auto Htd Wet Tank w/Cable	
AIR SUPPLY LINES	Air Sply Lines Nylon w/PTC Fittings	
AIR SUPPLY LINES REAR AIR TANK MOUNTING	Air Sply Lines Nylon w/PTC Fittings Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame	
REAR AIR TANK MOUNTING	• •	
REAR AIR TANK MOUNTING	• •	
REAR AIR TANK MOUNTING FRAME WHEELBASE	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0"	
REAR AIR TANK MOUNTING FRAME WHEELBASE REAR OVERHANG	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width	
REAR AIR TANK MOUNTING FRAME	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0"	
REAR AIR TANK MOUNTING FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY BUMPER FRONT BUMPER	Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316 Frame Components Corrosion Warranty (3) Year RFW0315	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY BUMPER FRONT BUMPER FRONT BUMPER EXTENSION LENGTH	Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316 Frame Components Corrosion Warranty (3) Year RFW0315 Frt Bumper Structural Steel Channel Severe Duty w/Recessed LH Outboard Provision	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY BUMPER FRONT BUMPER FRONT BUMPER EXTENSION LENGTH	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316 Frame Components Corrosion Warranty (3) Year RFW0315 Frt Bumper Structural Steel Channel Severe Duty w/Recessed LH Outboard Provision Frt Bumper Extension Length 21"	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY BUMPER FRONT BUMPER FRONT BUMPER EXTENSION LENGTH FRONT BUMPER PAINT	Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316 Frame Components Corrosion Warranty (3) Year RFW0315 Frt Bumper Structural Steel Channel Severe Duty w/Recessed LH Outboard Provision Frt Bumper Extension Length 21" Frt Bumper Paint Primary/Lower Cab Color w/Bedliner Black Bumper Trim	
FRAME WHEELBASE REAR OVERHANG FRAME FRAME PAINT FRAME ASSEMBLY STRUCTURAL WARRANTY FRAME RAIL CORROSION WARRANTY FRAME COMPONENTS CORROSION WARRANTY BUMPER FRONT BUMPER FRONT BUMPER EXTENSION LENGTH FRONT BUMPER TRIM	Rear Air Tank Mnt Any Bhd Rear Axle Perpendicular w/Frame Wheelbase 186.0" Rear Overhang 52.0" Frame Double Channel 35.00" Width Frame Paint Hot Dipped Galvanized - Frame Only Addl Comp Blk Powder Coat Frame Assembly Structural Warranty (50) Year RFW0305 Frame Rail Corrosion Warranty (25) Year RFW0316 Frame Components Corrosion Warranty (3) Year RFW0315 Frt Bumper Structural Steel Channel Severe Duty w/Recessed LH Outboard Provision Frt Bumper Extension Length 21" Frt Bumper Paint Primary/Lower Cab Color w/Bedliner Black Bumper Trim Frt Bumper Trim SS Painted Band Frt Top Edge & Corners Below Apron	

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FRONT BUMPER COMPARTMENT CENTER	Frt Bumper Cmpt Ctr w/Seat Belt Straps	1
MECHANICAL SIREN	Mechanical Siren Federal Signal Q2B Recess Mnt	1
MECHANICAL SIREN LOCATION	Mech Siren Location Frt Bmpr Face LH OB Fully Recessed	1
AIR HORN	Air Horn (2) 21" Round Hadley E-Tone	1
AIR HORN LOCATION	Air Horn Location (2) Frt Bmpr Face Ctr R/L OB	1
AIR HORN RESERVOIR	Air Horn Reservoir (1) 1200 Cu In	1
ELECTRONIC SIREN SPEAKER	Elect Siren Speaker 100W Cast Products SA2401	1
ELECTRONIC SIREN SPEAKER LOCATION	Elec Siren Speaker Location Frt Bmpr Face RH OB	1
FRONT BUMPER TOW HOOKS	Frt Bumper Tow Hooks Painted Below Fwd	1
CAB TILT		
CAB TILT SYSTEM	Cab Tilt System	1
CAB TILT AUXILIARY PUMP	Cab Tilt Aux Pump Manual Mnt w/Tilt Pump	1
CAB TILT LIMIT SWITCH	Cab Tilt Limit Sw Preset Limit	1
CAB TILT ALARM	Cab Tilt Alarm	1
CAB TILT CONTROL RECEPTACLE	Cab Tilt Ctrl Receptacle For Customer Install In Body	1
CAB TILT LOCK DOWN INDICATOR	Cab Tilt Lock Down Indicator	1
CAB GLASS		
CAB WINDSHIELD	Cab Windshield	1
GLASS FRONT DOOR	Glass Frt Dr Pwr	1
GLASS TINT FRONT DOOR	Glass Tint Frt Dr Automotive Dark Gray	1
GLASS REAR DOOR RIGHT HAND	Glass Rr Dr RH Pwr	1
GLASS TINT REAR DOOR RIGHT HAND	Glass Tint Rr Door RH Automotive Dark Gray	1
GLASS REAR DOOR LEFT HAND	Glass Rr Dr LH Pwr	1
GLASS TINT REAR DOOR LEFT HAND	Glass Tint Rr Door LH Automotive Dark Gray	1
GLASS SIDE MID RIGHT HAND	Glass Side Mid RH Fxd 16"W x 26"H	1
GLASS TINT SIDE MID RIGHT HAND	Glass Tint Side Mid RH Automotive Dark Gray	1
GLASS SIDE MID LEFT HAND	Glass Side Mid LH Fxd 16"W x 26"H	1
GLASS TINT SIDE MID LEFT HAND	Glass Tint Side Mid LH Automotive Dark Gray	1
Ti T		
CLIMATE CONTROL		
CABIN AIR FILTRATION	Cabin Air Filtration System Active Air Pur Upr Rear Wall Horiz Ign/Shore Pwr	1
CLIMATE CONTROL	Climate Ctrl Htr Defroster A/C SGM Ovrhd Alum 10-24" RR Short Plenum	1
CLIMATE CONTROL DRAIN	Climate Control Drain Gravity	1
CLIMATE CONTROL ACTIVATION	Climate Ctrl Actv Rotary Dash Mnt Ctr	1
HVAC OVERHEAD COVER PAINT	HVAC Overhead Cover Paint Multi-tone Onyx Black	1
A/C CONDENSER LOCATION	A/C Condenser Location Roof Mnt Fwd Ctr	1
A/C COMPRESSOR	A/C Compressor TM-31/QP-31	1
UNDER CAB INSULATION	Under Cab Insulation Engine Tunnel	1

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QA4FPPFBM

CAB INTERIOR

INTERIOR TRIM FLOOR	Interior Trim Floor	1
INTERIOR TRIM	Interior Trim Vinyl w/Painted Aluminum Side Walls	1
REAR WALL INTERIOR TRIM	Rear Wall Interior Trim Painted Aluminum	1
HEADER TRIM	Header Trim XDuty	1
TRIM CENTER DASH	Trim Center Dash XDuty w/Gas Cylinder Stay	1
TRIM LEFT HAND DASH	Trim LH Dash XDuty	1
TRIM RIGHT HAND DASH	Trim RH Dash XDuty Glove Cmpt/MDT Prov	1
ENGINE TUNNEL TRIM	Eng Tnl Trim Flr Mat	1
ENGINE TUNNEL ACCESSORIES	Eng Tnl Acc Mtg Plate w/0.75" Spacers/Full Size	1
POWER POINT DASH MOUNT	Pwr Pnt Dash Mnt Batt Dir (1) Sw Pnl/(2) Dual USB Blue Sea 2.1A Sw Pnl	1
STEP TRIM	Step Trim Grip Strut Lwr TPlt Mid	1
STEP TRIM KICKPLATE	Step Trim Kickplate Treadplate	1
UNDER CAB ACCESS DOOR	Under Cab Access Door Rear Step LH Tread Plate	1
INTERIOR DOOR TRIM	Interior Door Trim Painted	1
DOOR TRIM CUSTOMER NAMEPLATE	Door Trim Customer Nameplate	1
CAB DOOR TRIM REFLECTIVE	Cab Dr Trim Reflective Vert Stripe/12" Stop	1
INTERIOR GRAB HANDLE "A" PILLAR	Interior Grab Handle 'A' Pillar 11" Molded	1
INTERIOR GRAB HANDLE FRONT DOOR	Interior Grab Handle Frt Door Horiz 9"	1
INTERIOR GRAB HANDLE REAR DOOR	Int Grab Handle Rr Dr Alum Window Span 30" Polished	1
INTERIOR SOFT TRIM COLOR	Interior Soft Trim Color Black	1
INTERIOR TRIM SUNVISOR	Interior Trim Sunvisor Tinted	1
INTERIOR FLOOR MAT COLOR	Interior Floor Mat Color Black	1
CAB PAINT INTERIOR DOOR TRIM	Cab Paint Int Dr Trim Multi-tone Onyx Black	1
HEADER TRIM INTERIOR PAINT	Header Trim Interior Paint Multi-tone Onyx Black	1
TRIM CENTER DASH INTERIOR PAINT	Trim Center Dash Interior Paint Multi-tone Onyx Black	1
TRIM LEFT HAND DASH INTERIOR PAINT	Trim LH Dash Interior Paint Multi-tone Onyx Black	1
TRIM RIGHT HAND DASH INTERIOR PAINT	Trim RH Dash Interior Paint Multi-tone Onyx Black	1
REAR WALL INTERIOR PAINT	Rear Wall Interior Paint Multi-tone Onyx Black	1
DASH PANEL GROUP	Dash Pnl Group 3-Pnl w/Black Textured Aluminum Panels	1
SWITCHES CENTER PANEL	Switches Ctr Pnl 6 Upr LH	1
SWITCHES LEFT PANEL	Switches Left Pnl 1 Wiper	1
SWITCHES RIGHT PANEL	Switches Right Pnl 1	1

CAB SEATS

Price Level: 202308252025A

SEAT BELT WARNING	Seat Belt Warn Disp w/VDR	1
SEAT MATERIAL	Seat Material Bostrom Durawear Plus	1
SEAT COLOR	Seat Color Black/Red Seat Belts	1
SEAT BACK LOGO	Seat Back Logo FERRARA	6
SEAT DRIVER	Seat Driver Bostrom Firefighter 4-Way Air Non-ABTS	1
SEAT BACK DRIVER	Seat Back Driver Non-SCBA Non-ABTS	1

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SEAT MOUNTING DRIVER	Seat Mounting Driver	1
SEAT OFFICER	Seat Officer Bostrom Firefighter Fixed 500 Series ABTS	1
SEAT BACK OFFICER	Seat Back Officer SCBA Bostrom SecureAll w/Quick-Adjust	1
SEAT MOUNTING OFFICER	Seat Mounting Officer Rwd 2"	1
SEAT BELT ORIENTATION CREW	Seat Belt Orientation Crew Outboard Shoulder To Inboard Hip	1
SEAT REAR FACING OUTER LOCATION	RFO Location Primary Pos (2) R/L	1
SEAT CREW REAR FACING OUTER	Seat Crew RFO Bostrom Firefighter Fixed 500 Series	2
SEAT BACK REAR FACING OUTER	Seat Back RFO SCBA Bostrom SecureAll w/Quick-Adjust	2
SEAT MOUNTING REAR FACING OUTER	Seat Mounting RFO Rwd 2"	1
SEAT FORWARD FACING CENTER LOCATION	Seat FFC Location Secondary Pos (2) Ctr	1
SEAT CREW FORWARD FACING CENTER	Seat Crew FFC Bostrom Firefighter Fixed 500 Series	2
SEAT BACK FORWARD FACING CENTER	Seat Back FFC SCBA Bostrom SecureAll w/Quick-Adjust	2
SEAT FRAME FORWARD FACING	Seat Frm Fwd Fcg Dual	1
SEAT FRAME FORWARD FACING STORAGE ACCESS	Seat Frm Fwd Fcg Strg Acc Dr (2) R/L Sd	1
SEAT MOUNTING FORWARD FACING CENTER	Seat Mounting FFC 6" Apart	1
CAB FRONT UNDERSEAT STORAGE ACCESS DOOR	Cab Frt Undrst Strg Acc Dr	1
SEAT COMPARTMENT DOOR FINISH	Seat Compartment Door Finish Multi-tone Onyx Black	1
CAR EXTERIOR		
CAB EXTERIOR		
WINDSHIELD WIPER SYSTEM	Windshield Wiper System	1
	Electronic Windshield Fluid Level Indicator	1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL		1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR	Electronic Windshield Fluid Level Indicator	1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18"	1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd	1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl	1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate	1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl	1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR	Electronic Windshield Fluid Level Indicator Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate	1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS IGNITION	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris Batt Tray (2) R/L Steel	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS IGNITION BATTERY	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris Batt Tray (2) R/L Steel Batt Box Cover (2) Steel w/Black Handles	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS IGNITION BATTERY BATTERY TRAY	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris Batt Tray (2) R/L Steel Batt Box Cover (2) Steel w/Black Handles Batt Cables	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS IGNITION BATTERY BATTERY TRAY BATTERY BOX COVER	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris Batt Tray (2) R/L Steel Batt Box Cover (2) Steel w/Black Handles Batt Cables Batt Jumper Stud Frt LH Lwr Step w/Label	1 1 1 1 1 1 1
WINDSHIELD WIPER SYSTEM ELECTRONIC WINDSHIELD FLUID LEVEL INDICATOR CAB DOOR HARDWARE DOOR LOCKS GRAB HANDLES REARVIEW MIRRORS REARVIEW MIRROR HEAT SWITCH TRIM REAR WALL EXTERIOR CAB FENDER MUD FLAPS FRONT START / CHARGING SYSTEMS IGNITION BATTERY BATTERY TRAY BATTERY BOX COVER BATTERY CABLE	Cab Door Hardware Chrome Door Locks Manual Grab Handles SS 18" Mirror Aerodynamic Retrac 613305 Rmt Htd Rearview Mirror Heat Sw Mirror Ctrl Pnl Trim Rear Wall Exterior Treadplate Cab Fender SS w/ABS Liner Mud Flaps Frt Ign Mstr Rkr Sw w/Push-Button Start Batt (6) Group 31 Harris Batt Tray (2) R/L Steel Batt Box Cover (2) Steel w/Black Handles Batt Cables	1 1 1 1 1 1 1

Prepared By ERIC ADAMS Quote Id: QA4FPPFBM,Revision Level: -3

Phone: 800-443-9006

Order Id:

Lead Unit Order Id:

Prepared For MARC MAZZA BULLDOG FIRE APPARATUS

Sales Order Number: QA4FPPFBM

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QA4FPPFBM

LINE VOLTAGE ELECTRICAL POWER DISTRIBUTION

BATTERY CONDITIONER	Batt Cond Kussmaul Chief 4012 LH RFO Seat Position	1
BATTERY CONDITIONER DISPLAY	Batt Cond Display Integrated In Elec Inlet w/Digital Status Center	1
ELECTRICAL INLET LOCATION	Elec Inlet Location LH Cab Side Mid Fwd	1
ELECTRICAL INLET	Elec Inlet 120V 20A Auto Eject	1
ELECTRICAL INLET CONNECTION	Elec Inlet Conn to Batt Conditioner	1
ELECTRICAL INLET COLOR	Elec Inlet Color Yellow	1
LIGHTING		
HEADLIGHTS	Headlights 4 Headlamps LED	1
HEADLIGHT LOCATION	Headlights Above Frt Warn Lts	1
FRONT TURN SIGNALS	Frt Turn Signals Whelen M6 LED	1
SIDE TURN/MARKER LIGHTS	Side Turn/Marker Lts LED Tecniq S170	1
MARKER & ICC LIGHTS	Marker & ICC Lts Face Mnt LED Tecniq S170	1
HEADLIGHT AND MARKER LIGHT ACTIVATION	Hdlt & Mrkr Lt Actv MUX/DRL	1
INTERIOR OVERHEAD LIGHTS	Interior Overhead Lts Red/Clear LED	1
INTERIOR OVERHEAD LIGHTING ACTIVATION	Int Ovrhd Lt Actv Resp Dr & MUX	1
LIGHTBAR PROVISION	Lightbar Prov Wire & Lwr Mnt Chassis Supply	1
CAB FRONT LIGHTBAR MODEL	Cab Front Lightbar Model Whelen F4N72	1
CAB FRONT LIGHTBAR	Cab Front Lightbar - Configured in 5450M Subcategory	1
FRONT LIGHTBAR LAYOUT	Cab Front Lightbar Layout	1
FRONT LIGHTBAR ORIENTATION	Front Lightbar Orientation - Standard Fwd	1
FRONT LIGHTBAR LIGHT POSITION 2	Cab Front Lightbar Position 2 - Red LH Side	1
FRONT LIGHTBAR LIGHT POSITION 4	Cab Front Lightbar Position 4 - Red	1
FRONT LIGHTBAR LIGHT POSITION 5	Cab Front Lightbar Position 5 - White	1
FRONT LIGHTBAR LIGHT POSITION 6	Cab Front Lightbar Position 6 - Red	1
FRONT LIGHTBAR LIGHT POSITION 7	Cab Front Lightbar Position 7 - Blue	1
FRONT LIGHTBAR LIGHT POSITION 8	Cab Front Lightbar Position 8 - Red	1
FRONT LIGHTBAR LIGHT POSITION 11	Cab Front Lightbar Position 11 - Red	1
FRONT LIGHTBAR LIGHT POSITION 12	Cab Front Lightbar Position 12 - Blue	1
FRONT LIGHTBAR LIGHT POSITION 13	Cab Front Lightbar Position 13 - Blue	1
FRONT LIGHTBAR LIGHT POSITION 14	Cab Front Lightbar Position 14 - White	1
FRONT LIGHTBAR LIGHT POSITION 15	Cab Front Lightbar Position 15 - Blue	1
FRONT LIGHTBAR LIGHT POSITION 17	Cab Front Lightbar Position 17 - Red RH Side	1
LIGHTBAR SWITCH	Lightbar Sw On w/Mstr Warn	1
FRONT SCENE LIGHTS	Frt Scene Lts FireTech FT-B-46-W 12V LED 46" White	1
FRONT SCENE LIGHT LOCATION	E · C · I · I · · · C · · · P P	1
FROM I SCENE LIGHT LOCATION	Frt Scene Lt Loc Ctr Brow Pos	
FRONT SCENE LIGHTS ACTIVATION	Frt Scene Lts Actv Rkr Sw Pnl	1
		1

Price Level: 202308252025A

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SIDE SCENE ACTIVATION	Side Scene Actv Indv Sw & Resp Side Doors	1
REAR SCENE LIGHTS	Rear Scene Lts Whelen PFH2 12V LED Side Mount Push-up Pole (2)	1
REAR SCENE LIGHT LOCATION	Rr Scene Lt Loc (2) Pole Mnt Outer Rr Wall Cab Corner	1
REAR SCENE LIGHT ACTIVATION	Rear Scene Lt Actv Indv Sw MUX Labeled "Left/Right" Cab Tele Light	1
GROUND LIGHTS	Ground Lts Tecniq T44 LED	1
GROUND LIGHTING ACTIVATION	Ground Lt Actv Prk Brk, Resp Sd Dr & Disp	1
LOWER CAB STEP LIGHTS	Lwr Cab Step Lts Tecniq T44 LED	1
INTERMEDIATE STEP LIGHTS	Intermediate Step Lts Tecniq D06 LED Frt Drs	1
ENGINE COMPARTMENT LIGHT	Engine Cmpt Work Lt LED (1)	1
OPTICAL WARNING DEVICES		
DO NOT MOVE APPARATUS LIGHT	Do Not Move App Lt Flashing Red Tecniq K50 LED w/Alarm	1
MASTER WARNING SWITCH	Mstr Warn Sw MUX	1
INBOARD FRONT WARNING LIGHTS	Inboard Frt Warn Lts Whelen M6 LED Chrm Bezel	1
INBOARD FRONT WARNING LIGHTS COLOR	Inboard Frt Warn Lts Color Red/Blue w/Clr Lens	1
FRONT WARNING SWITCH	Frt Warn Sw Disp	1
INTERSECTION WARNING LIGHTS	Intersection Warn Lts Whelen M6 LED	1
INTERSECTION WARNING LIGHTS COLOR	Int Warn Lts Color Red/Blue w/Clr Lens	1
INTERSECTION WARNING LIGHTS LOCATION	Intersection Warn Lts Location Bumper Tail Recess Mnt	1
SIDE AND INTERSECTION WARNING SWITCH	Side & Intersection Warn Sw Disp	1
TANK LEVEL LIGHTS	Tank Lvl Lts FRC Max Vision	1
TANK LEVEL LIGHTS ACTIVATION	Tank Lvl Lights Actv Prewire Rear of Cab	1
TANK LEVEL LIGHTS LOCATION	Tank Lvl Lights Loc Rear Cab Sides Centered	1
AUDIBLE WARNING DEVICES		
SIREN CONTROL HEAD	Siren Ctrl Head Whelen 295SLSA1	1
AUDIBLE WARNING LH FOOT SWITCH	Audible Warning LH Foot Switch Siren	1
MECHANICAL SIREN FOOT SWITCH LH	Mechanical Siren Foot Switch LH Linemaster 491-S	1
MECHANICAL SIREN FOOT SWITCH LH LOCATION	Mechanical Foot Switch LH Location A-Pillar	1
MECHANICAL SIREN FOOT SWITCH LH POSITION	Mechanical Siren Foot Switch Position Outboard of Other Foot Switches	1
AUDIBLE WARNING LH FOOT SWITCH BRACKET	Audible Warn LH Ft Sw Double Brkt 30Deg TPlate	1
AIR HORN AUXILIARY ACTIVATION	Air Horn Actv LH Lanyard/PB Sw Pnl	1
MECHANICAL SIREN BRAKE/AUXILIARY ACTIVATION	Mech Siren PB Brk Sw, Siren/Brk Combo Sw	1
MECHANICAL SIREN INTERLOCK	Mechanical Siren Interlock Park Brake & Master Warn	1
BACK-UP ALARM	Back-Up Alarm Preco-Matic 1059	1

Quote Id: QA4FPPFBM, Revision Level: -3

Phone: 800-443-9006

Order Id:

Lead Unit Order Id:

ENGINEERING

EFCM/REAR CROSSMEMBERS

Price Level: 202308252025A

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BULLDOG FIRE APPARATUS

Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

INSTRUMENTATION

1 Instrumentation Standard INSTRUMENTATION 1 Backlighting Color Red **BACKLIGHTING COLOR COMMUNICATIONS SYSTEMS** 1 Radio Jensen WB/AM/FM/BT **RADIO** 1 Radio Overhead LH Offset Inboard RADIO LOCATION AM/FM Antenna LH Fwd Cab Roof AM/FM ANTENNA Radio Speakers (4) Front/Rear RADIO SPEAKERS Cam in View 360-HD (4) Cam Bird's Eye View System **CAMERA** Camera Display LH HD Monitor **CAMERA DISPLAY** Comm Ant Base RH Fwd Cab Rf Chassis Sply **COMMUNICATION ANTENNA** Comm Ant Cable Routing Under Rkr Sw Pnl **COMMUNICATION ANTENNA CABLE** ROUTING 1 Panel Layout PANEL LAYOUT ADDITIONAL EQUIPMENT 1 Fire Extinguisher Shiploose FIRE EXTINGUISHER 1 Road Safety Kit Shiploose ROAD SAFETY KIT Door Keys for Manual Locks (4) DOOR KEYS SALES ADMIN 1 Warranty Cab and Chassis (2) Year RFW0102 WARRANTY Chassis Operation Manual Digital Copy (2) **CHASSIS OPERATION MANUAL** Eng & Trans Operation Man Eng Hard Copy/Trans Digital/Eng Owner 1 **ENGINE & TRANSMISSION OPERATION** Digital **MANUAL** Cab/Chassis As Built Wiring Diagrams Digital Copy (2) 1 CAB/CHASSIS AS BUILT WIRING **DIAGRAMS** 1 Sales Terms SALES TERMS

1

End of Frame Cross Member 2.25" From EOF

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Order Id:

Lead Unit Order Id:

Panel Layout

Price Level: 202308252025A

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Price Level: 202308252025A

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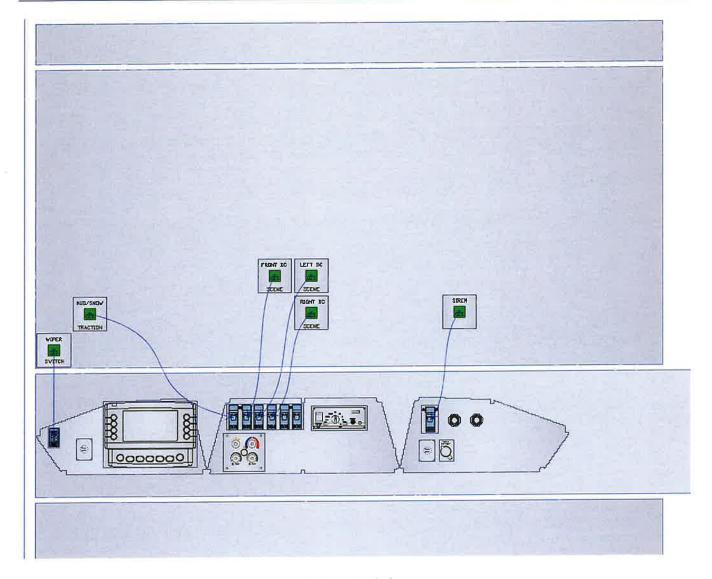
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Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

5020-002 Panel Layout



Option Description SWITCH PANEL - MISC PANELS LEGEND LOCATION CLIMATE CTRLS CTR DASH ABS ROTARY SGM 94" SW PNL 6 SW UPR LH 2010 94" SIREN CONTROL HEAD WHELEN 295SLSA1 SWITCH PANEL RH 1 SWITCHES MOVEABLE 2010 94" PWR POINT DASH MNT BATT DIR 10.5 W DUAL USB SW PNL PWR POINT DASH MNT (2) BATT DIR MECH SIREN PB BRK AIR HORN PB 2010 94" VEHICLE DISPLAY (1) DRIVER PNL 2010 SWITCH PANEL LH (1) WIPER SWITCH 2010 94" DUAL USB 10.5 WATT POWER POINT DASH MNT BATT DIR (3) FRONT SCENE LIGHT ACTIVATION ROCKER SWITCH PANEL BRAKE SYSTEM TYPE ATC RKR SW 'MUD/SNOW TRACTION' LEFT DC SCENE

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Price Level: 202308252025A

Order Id:

Lead Unit Order Id:

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Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

RIGHT DC SCENE WINDSHIELD WIPER SYSTEM SINGLE MOTOR MECH SIREN 3 POS RKR/BRK SW

Page 16 of 21

Quote Id: QA4FPPFBM, Revision Level: -3

Phone: 800-443-9006

Order Id:

Lead Unit Order Id:

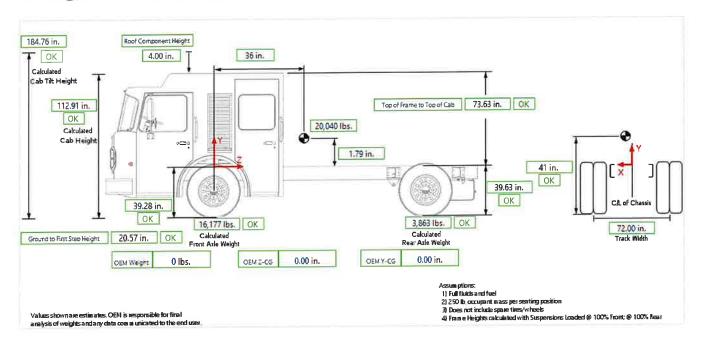
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Sales Order Number: QA4FPPFBM

Lead Sales Order Number:

QA4FPPFBM

Weight Distribution



Calculated Apparatus Weight

20,040 lbs.

Calculated Apparatus Z-CG

36 in.

Calculated Apparatus Y-CG

Price Level: 202308252025A

1.79 in.

Note:

The Y-CG value above is calculated from the top of the frame.

Apparatus refers to total combined value for cab and chassis and OEM inputs.

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Order Id:

Lead Unit Order Id:

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Sales Order Number: QA4FPPFBM Lead Sales Order Number: QA4FPPFBM

Seat Locations

Price Level: 202308252025A



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Quote Id: QA4FPPFBM,Revision Level: -3

Phone: 800-443-9006

Order Id:

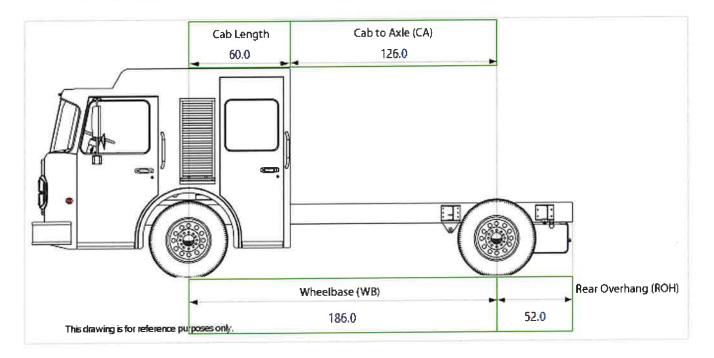
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Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

Frame Dimensions



Quote Id: QA4FPPFBM, Revision Level: -3

Phone: 800-443-9006

Order Id:

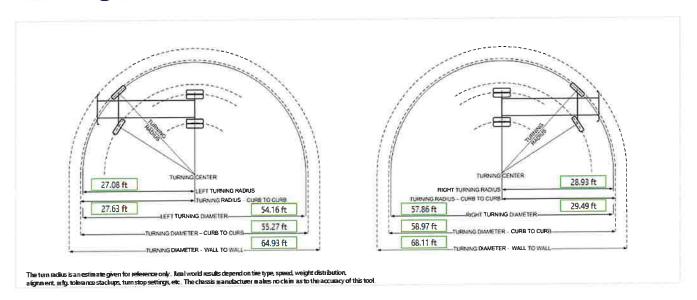
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Sales Order Number: QA4FPPFBM Lead Sales Order Number:

QA4FPPFBM

Turning Radius



Bulldog Fire Apparatus End User Name Chassis Model Wheelbase **Bumper Extension** 99.00 in Bumper Width 33.50 deg Left hand outside tire turn angle Right hand outside tire turn angle Left hand Curb-to-Curb turning radius Right hand Curb-to-Curb turning radius Left hand Wall-to-Wall turning radius Right hand Wall-to-Wall turning radius

Price Level: 202308252025A

0100-011 Invader 186.00 in 21.00 in

31.00 deg 27.63 ft, 8.42 m 29.49 ft, 8.99 m 32.46 ft, 9.89 m 34.05 ft, 10.38 m

Quote Id: QA4FPPFBM, Revision Level: -3 Phone: 800-443-9006

Order Id:

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Sales Order Number: QA4FPPFBM Lead Sales Order Number: QA4FPPFBM

Cab Glass

