



Shop Order

Debert Fire Brigade
 Chief Shane Slack
 34 Carter Road
 Debert, NS B0M 1G0



Exp. Date: 01/06/2021
Quote No: 10132-0020
Job/Order No: 21995
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

07/21/2022

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==		MTL
	S	Change Order G		MTL
00-05-0010		Dealer - Metalfab	1	MTL
00-10-1500		Metalfab Pumper	1	MTL
00-20-1000		Company Profile	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION		MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
10-11-1500		> ULC Testing - Pumper - Imperial units of measure	1	MTL
		ENG. NOTE: Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200	S	Maximum height - 140" Door opening is 11' - 11" (143")	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies ***Two copies of manuals are required.	1	MTL
10-11-3600	S	> Delivery - FOB Fire Department ENG. NOTE: Note in the shop note if more than 4 hours of training is required	1	MTL
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements ENG. NOTE: Specify the type of hose and quantity of hose to be carried on the vehicle 1400' of 5" hose 700' of 2.5" hose	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		CHASSIS INFORMATION		MTL
20-11-1000	S	Chassis - Freightliner 114SD two door 18000lb FA, 46000lb RA 64,000 lb GVWR 263" wheelbase 197.42" cab to axle (chassis spec to be updated to match	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		these numbers) and 100" rear frame overhang Detroit DD13 12.8L, 505HP @ 1625RPM, 1900 gov RPM, 1850 lb-ft @ 975RPM Jacobs brake (activates stop lamps - Code 128-1AW included) Allison 4000 EVS automatic transmission Driveline series Meritor 1810 275 Amp alternator 68 MPH top speed (does not meet NFPA, section 4.15.3 for 60 MPH) 227 liter fuel tank, LH, 25" diameter ESC, VDR and Seat belt display Polished aluminum wheels Air horns - To be shipped loose with chassis for Metalfab installation - see 20-51-9110 Air ride driver's and officer's seat 97 db backup alarm Two tone paint - L0006 White, L3240 Red and paint line to match M14-17603 as confirmed at the pre-construction meeting of 05.04.2021. Samples were approved by Chief Shane Slack 07.09.2021 and approval sent to John Mackay on 07.12.2021 Air horn controls to change to lanyards as requested at the pre-construction meeting		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection as supplied by chassis dealership	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1000		Maximum riders sign - 2 persons	1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
20-21-1520		Helmet warning label - do not wear helmet	1	MTL
20-21-15AA	U	Tire Pressure Monitoring System with gauge in cab-supplied w/chassis Bendix SmartTire - Freightliner code 50W-001	1	
20-21-1600		Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"	1	MTL
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		Front mudflaps provided with chassis E	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0600		Alum tread fuel tank covers, diamond grip steps, Conv - 2 dr	1	MTL
20-31-1900	S	Chassis cab painted two tone by chassis OEM	1	MTL
20-31-4700	S	> Extend front bumper, gravshld with hosewell, cover, and lift and turn latch ENG. NOTE: Note location of preconnect elbow Note special capacity requirements _____ ***Bumper to be extended approximate 18" ahead of cab Lift and turn latch and gas strut provided. Center compartment to carry 150' of 1-3/4" hose and pistol grip nozzle. Plumbing to be on top LS of bumper and have enough room to have a 2-1/2" gated wye left connected. The wye will be a TFT model AYNJ-NF (80-99-25AA) which will be supplied by Metalfab as requested at the pre-construction meeting of 05.04.2021 There will be a light under the cover as requested at the pre-construction meeting of 05.04.2021 and it will be activated when the park brake is applied.	1	MTL
20-31-4800	S	Storage box in extended bumper with cover, lift and turn latch One compartment on the right side outer edge of the gravel shield	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Make compartment as large as possible as space permits. Lift and turn latch and gas strut provided There will be a small LED light in the compartment that will be activated with the park brake. As requested at the pre-construction meeting of 05.04.2021 and confirmed by e-mail on 02.09.2021		
20-31-48AA	U	Bumper compartment interior/exterior painted black Zolatone The two (2) compartments in 20-31-4700 and 20-31-4800 will be painted with black Zolatone inside and outside (including the underside of the cover). As confirmed at the pre-construction meeting of 05.04.2021 Zolatone code to be 20-06 as approved by customer by e-mail on 12.15.2021	1	
20-31-7500	S	Console in cab Install Vista display (50-11-09AA), siren (50-11-14AA), Customer's radios (50-35-0500) and pump shift (30-51-0500 in console. *****Flat top design (similar to M20-21100, Trent Hills, ON)***** Storage area with hinged cover, gas strut for the cover and lift and turn latch provided at rear of console. *****Black Zolatone finish***** Zolatone code to be 20-06 as approved by customer by e-mail on 12.15.2021 As confirmed at the pre-construction meeting of 05.04.2021	1	MTL
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.	1	MTL
20-41-1900		Battery boost terminals with chassis E	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5000		Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)	1	MTL
20-41-5500	S	ON SPOT Automatic traction chains - installed on front tandem axle Installed on front tandem axle unless otherwise specified. Physical Switch located in cab within easy reach of driver, properly labeled. Customer advised that beside the steering wheel on the right side, above the transmission shift is acceptable - as approved by e-mail on 02.09.2022	1	MTL
20-51-0710		Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-4000	S	Auto eject for air inlet - LS Pump panel	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle, not fused Receptacle location to be: #1 - In chassis cab for battery conditioner - Minimum 12" from floor level #2 - R4 compartment - front wall, upper inner corner #3 - L4 compartment - front wall, upper inner corner #4 - R2 compartment - front wall, upper inner corner	4	MTL
20-51-6520	U	Kussmaul AutoCharge 2000 dual battery conditioner w/saver Battery conditioner mounted behind console/driver's seat. Auto Eject and readout located on LS pump panel. The second feed of Kussmaul Charger will be wired to the left side of the R1 compartment and it will have the female end of a flat two-prong connection. As discussed at the pre-construction meeting of 05.04.2021 SOPT#910	1	

PART NO	S	DESCRIPTION	QTY	ID
20-51-7102	S	Electric System Management - VMUX	1	MTL
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure Located left side pump panel - minimum 24" from grade.	1	MTL
20-51-8505		Engine compartment light included with chassis E To be controlled by the Freightliner switch on the chassis dash	1	MTL
20-51-9110	S	Air horns shipped loose with chassis - Installation by Metalfab under the bumper Air horn location to be under the front bumper extension (20-31-4700) and must be protected. Lanyards are the preferred control option as discussed at the pre-construction meeting of 05.04.2021	1	MTL
20-52-0010	S <	Air horn control/actuation on pump operators panel SOPT#475 The control will be named "Air Horn" and will have a yellow label all around for easy identification. As requested at the pre-construction meeting of 05.04.2021	1	MTL
20-52-3500	>	Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4009	S	Pro-Vision camera system - 4 cameras - front, right, left and rear - with VDR Display on chassis dash - Vista display will not support video feed. Side camera are mounted on cab ahead of cab door below windshield level Addition of display was determined to be required during production	1	MTL
20-60-0400	S	Chassis wheelbase does not change	1	MTL
PUMP AND PLUMBING				
30-12-3100	>	Power Transfer valve - Waterous two stage pumps ENG. NOTE: Required for Top Mount panels	1	MTL
30-12-4000		Mechanical seals for Waterous pumps	1	MTL
30-12-8500		Waterous CMU two stage 1500 IGPM	1	MTL
30-15-0202		Plumbing - Waterous manifold pump TM SS E	1	MTL
30-20-1000		Valves and controls - top mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1600		Piping stainless steel - general	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - NSZ1	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2500		Anodes in suction and discharge piping Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility. To be ordered with pump	1	MTL
30-21-9515	S	Tank to Pump 4" Ball valve SS, electric control with check valve manifold pump Navigator Pro 9333 control on operators panel. SOPT in file	1	MTL
30-22-20AA	U	Tank Fill valve 3" SS, electric control Navigator Pro 9333 control on operators panel. SOPT in file	1	
30-31-4010	S	Suction - 6" gated each side, SS manifold pump The left side suction will have the TFT Detent elbow (80-11-6010) installed with a 6" cap. The right side suction will have the TFT 6" to 5" storz elbow installed. The 6" threaded end cap will be shipped loose. As discussed at the pre-construction meeting of 05.04.2021	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-31-7210	S	> Waterous Monarch valve - electric control ENG. NOTE: Required for top mount panels Show location in Shop Note *** Suction to be gated is 6" LS and RS suction Electric controls are located on transverse pump panel. Order with pump	2	MTL
30-32-8035	U	Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump	1	MTL
30-40-21AA	U	4" Right side, Akron 9335 Navigator, pressure and flow 4" Right side discharge TM SS, plumbed 4" Waterous manifold pump, 4" Storz connection, 30-degree droop and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file	1	
30-40-26AA	U	4" Left side, Akron 9335 Navigator, pressure and flow 4" Left side discharge TM SS, plumbed 4" Waterous manifold pump, 4" Storz connection, 30-degree droop and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file	1	
30-41-21AA	U	2.5" Right side, Akron 9335 Navigator, pressure and flow 2.5" Right side discharge TM SS, plumbed 2.5" Waterous manifold pump, 2.5" threaded connection, 30-degree droop and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file	1	
30-41-26AA	U	2.5" Left side, Akron 9335 Navigator, pressure and flow 2.5" Left side discharge TM SS, plumbed 2.5" Waterous manifold pump, 2.5" threaded connection, 30-degree droop and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file	2	
30-43-16AA	U	2.5" Rear, Akron 9335 Navigator, pressure and flow 2.5" rear discharge TM SS, plumbed 2.5" Waterous manifold pump, 2.5" threaded connection, 30-degree droop and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. Both discharges to be located under the hose bed at the right side as requested at the pre-construction meeting of 05.04.2021 SOPT in file	2	
30-44-07AA	U	1.5" Speedlay, Akron 9335 Navigator, pressure and flow 1.5" speedlay discharge under the walkway TM SS, plumbed 2.0" Waterous manifold pump, 1.5" threaded connection, swivel and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file There will be rollers on the side only - none on the bottom of the speedlay. As discussed at the inspection visit of 03.27.2022	2	
30-44-11AA	U	2.5" front, Akron 9335 Navigator, pressure and flow 2.5" front discharge TM SS, plumbed 2.5" Waterous manifold pump, 2.5" threaded connection, chrome swivel on left side of front bumper and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file	1	
30-44-36AA	U	2.5" Crosslay, Navigator 9335, pressure and flow 2.5" crosslay discharge TM SS, plumbed 2.5" Waterous manifold pump, 2.5" threaded connection, swivel and bleeder	1	

PART NO	S	DESCRIPTION	QTY	ID
		Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. SOPT in file		
30-44-66AA	U	Monitor, Navigator 9335, pressure and flow 3" monitor discharge TM SS, plumbed 3" Waterous manifold pump, piping is capped and bleeder Controlled by Akron 9335 Navigator Pro electric valve controller w/ pressure and flow. Piping will be in the front of the hose bed on a riser 80-99-26AA as approved by the customer by e-mail on 12.24.2021. The monitor will be customer supplied Elkhart Vulcan 8500-003 as advised by customer by e-mail SOPT in file	1	
30-51-0510	U	Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab ***Includes "Throttle Ready" indicator light on Pump operating panel	1	
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6800		FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7000	S	Suction side relief V/V, manifold pump One for the left side MIV and one for the right side MIV. The pressure to be set at 150 PSI as requested at the pre-construction meeting of 05.04.2021	2	MTL
30-51-7716		Trident Automatic Air Primer 3 barrel 3 location Location #1 - Main pump Location #2 - LS Suction MIV Location #3 - RS SuctionMIV	1	MTL
30-51-7720		Additional air tank for air primer system An additional air tank is provided to improve air primer capacity	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-90AA	U	Waterous Thermal Relief Valve (OPM) Overheat Protection Manager There will be a Waterous Thermal Relief Valve (OPM) Overheat Protection Manager with warning light ordered with the pump. The display will be mounted on the top pump panel.	1	
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-4210		Foam System - Hypro FoamPro 2002 Single Tank Foam system is plumbed to 2.5" crosslay, 2.5" front bumper discharge, the deckgun/monitor and the two (2) 1.5" speedlays	1	MTL
30-52-9100		Foam concentrate label at foam tank fill	1	MTL
30-52-9200		Foam System Instruction Plates	1	MTL
30-52-9400		NFPA Foam System certification test	1	MTL
		WATER AND FOAM TANKS		MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7000		Tank capacity 2000 Imperial Gallons	1	MTL
40-12-5000		Foam cell - 30 Imperial gallon	1	MTL
40-13-0100	S	> Through the tank tunnel ladder/suction hose storage ENG. NOTE: Charge 60 per cubic foot of tunnel volume Ref 60-40-9000 and 60-40-5500	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-1500		3" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection	1	MTL
40-23-1000	S	3/4" foam level gauge connection	1	MTL
40-23-1040		4" direct fill connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-30-1100	S	Water Fill Box front right side The water fill tower will be on the front right side behind the foam cell as shown on the proposal drawing.	1	MTL
40-31-3500		10" rear Newton dump, stainless steel	1	MTL
40-31-3600		Newton dump - stainless steel 36" telechute	1	MTL
40-31-5510		Electric operator for Newton dump, side mount Located left side above the lower level red flashing light	1	MTL
40-31-5610	>	Rotating dump chute for Newton dump SS ENG. NOTE: Requires top mount control on dump valve	1	MTL
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-8000	S	4" Storz rear gtd fill - with quarter turn type drain/bleeder valve The connection to have a 4" Storz to 5" Storz adapter and 5" end cap (80-99-06AA) which will be installed prior to delivery.	1	MTL
ELECTRICAL				MTL
50-11-0300		Base electrical system - multiplex E	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents As required by ULC and NFPA standards	1	MTL
50-11-09AA	U	Addition of Vista display in cab in place of rocker switch controls, door ajar Emergency lighting controls, door ajar warning, equipment not stowed warning lights and Traffic advisor on Vista as discussed at the pre-construction meeting of 05.04.2021 Engineering to specify list of components to be ordered prior to build	1	
50-11-14AA	U	Whelen Siren - 295SL101 SOPT#16 - truck specific The siren will be a standard 295SL101 with removable mic and have the Traffic Bar controlled by the VISTA display to simplify the wiring as discussed at the pre-construction meeting of 05.04.2021	1	
50-11-1620	S	> Siren speaker, 100 watt, behind front bumper ENG. NOTE: AS124 speaker 1570860 The speaker will be installed behind the front bumper so there will be no cutout in the front bumper required. As requested at the inspection visit of 03.27.2022	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-61AA	U	Whelen F4N0VLED with additional pods The lightbar will be a Whelen F4N0VLED with rear corner red flasher LED which will turn off with the park brake in order not to disrupt the pump operator on scene. One (1) Additional pair of red Alley light flashers and one (1) additional pair of red outer forward flashers will be added as requested at the pre-construction meeting of 05.04.2021	1	
50-11-6610	S	Rear LED Traffic Advisor warning lights - flush mount - SLS8-A Metalfab engineering recommends having the Federal SL8S-A traffic bar controlled by the VISTA display to simplify the wiring. This has been approved at the pre-construction meeting of 05.04.2021	1	MTL
50-11-8001	S	> Rear beacons not requested ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present	1	MTL
50-12-85AA	U	Front LED flashers (pr) - Whelen red with clear lens LED 400	1	

PART NO	S	DESCRIPTION	QTY	ID
50-12-86AA	U	Rear LED flashers (pr) - Whelen red with clear lens LED 400 - lower	1	
50-12-86BB	U	Rear LED flashers (pr)-Whelen red/amber with clear lens LED 90RA5FCR-Upper	1	
50-12-87AA	U	Front side inter lts (pr) - Whelen red with clear lens LED 400 Install on side of chassis hood as shown on the proposal drawing	1	
50-12-88AA	U	Body side inter lts (pr)-Whelen red with clear lens LED 400 - Lower	1	
50-12-88BB	U	Body side inter lts (pr)-Whelen red with clear lens LED 900 - Upper	2	
50-12-89AA	U	Add'l body side inter lts (pr)-Whelen red with clear lens LED 400	1	
50-21-1610		Parking (ditch) lights in rear fenders - LED in stainless steel housings LED ditch light P/N1030348, model#ZQL-SS-LED Switched in cab on Vista display and reverse of transmission These lights can be managed to shed SOPT#160a	2	MTL
50-21-27AA	U	Command light - 12VDC - KL415D-FX - 4 Spectra LED light heads, backlight option, KL415-D-FX light tower with 112,000 lumens Located in front of hose bed, left side - ahead of front partition. Control to be located at the transverse operators location but to be reviewed when the tower gets installed. Can be hard mounted as advised by Shane Slack by phone Shane Slack approved by phone on 02.15.2022 the orientation of light head opposite of the monitor as shown on the accessories drawing.	1	
50-21-5100	>	Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-51AA	U	Compartment lighting - 4" LED at each end of low side compartment Eight (8) total required	1	
50-21-5500	S	Door Ajar warning light - On the Vista display Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5550	S	Equipment rack not stowed warning light - on the Vista display Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	2	MTL
50-21-8001		Step lights for body steps - 4" LED Switched with park brake.	1	MTL
50-21-8110		Step lights for walkway - 4" LED Switched with park brake.	1	MTL
50-21-8200	U	12" Lumabar LED step lights for two door chassis Switched with park brake. SOPT#194a	1	
50-21-83AA	U	LED lumabar lighting for rear access ladder Switched with park brake.	1	
50-21-83BB	U	LED lumabar for intermediate step on rear Switched with park brake.	1	
50-21-8510	S	Rear LED clearance lights on rubber arms (pr)	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6021	U	Whelen scene lights (pr) - C9SL - Left side Located on front and rear upper corners of body side. Switched in cab (Vista) These lights can be managed to shed	1	

PART NO	S	DESCRIPTION	QTY	ID
50-31-6022	U	Whelen scene lights (pr) - C9SL - Rear Located on rear upper outer corners of rear of body. Switched in cab (Vista) and when transmission is placed in reverse gear These lights cannot be managed to shed as they are required for rear area lighting.	1	
50-31-6023	U	Whelen scene lights (pr) - C9SL - Right side Located on front and rear upper corners of body side. Switched in cab (Vista) These lights can be managed to shed	1	
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis Switched with park brake.	1	MTL
50-31-6580		Ground lighting (LED Lumabar) - top mount body Switched with park brake.	1	MTL
50-31-6595	U	LED lumabar lights under front bumper Switched with park brake. SOPT#590	2	
50-35-0500	S	Installation of customer supplied mobile radio Radio frequencies were uploaded to Basecamp on 02.10.2022. The Motorola XTL1500 TMR and Motorola XPR550E were logged into inventory on 02.10.2022	2	MTL
50-35-0590	S	Cellular/TMR antenna with base - commercial chassis The antenna will be behind the light bar and spaced out from the other antenna as much as possible. As discussed at the pre-construction meeting of 05.04.2021	1	MTL
50-35-05AA	U	VHF antenna with base - commercial chassis ***5/8" Wave type*** Standard base with longer antenna The antenna will be behind the light bar and spaced out from the other antenna as much as possible. As discussed at the pre-construction meeting of 05.04.2021	1	
50-99-10AA	U	Hose bed cover lights - 40" LED lumabars Switched with park brake.	1	
		BODY		MTL
60-10-15AA	U	1" drop on lower edge of compartment floor - sweep out type	1	
60-10-1600		Tandem axle extruded aluminum body	1	MTL
60-10-1688	U	Recessed body opening on each side of body There will be a recessed opening on the left side of the body for the porta-tank rack (60-41-6001). There will be a recessed opening on the right side for the ladder rack (60-41-9001).	2	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4760		Removable polished aluminum fender trim - tandem axle	1	MTL
60-10-5400	>	Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430	>	Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6500		Bolt on extruded aluminum rub rail E There will be a white reflective stripe supplied and installed in the rub rail	1	MTL
60-11-0200	>	Front left side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-11-0600		> Front right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1000		> Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1400		> Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1900	S	> Low side compartment (up to 18") each - Special configuration ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body Special configuration - RS rear to be 72" clear to store chimney brush and poles Ref M05-4657	4	MTL
60-11-2500	S	> Rear compartment at step level - For Blitzfire storage ENG. NOTE: Specify critical dimensions in shop note Located under dump line between the tow eyes frame work Customer supplied dimensions of the Blitzfire: 45" long x 12" high x 14" deep including the stacked tips as advised at the pre-construction meeting of 05.04.2021. Note: the stacked tip may have to be removed for storage and compartment will be as large as possible to allow storage of other loose items if possible. The customer supplied Blitzfire and fog nozzle were logged into inventory on 02.10.2022	1	MTL
60-11-4000	U	Surface mount smooth door with "1/4 turn" latch (for Blitzfire compt) For the rear step level compartment 60-11-2500. The door will be covered by Chevron 60-33-3320 as discussed at the pre-construction meeting of 05.04.2021	1	
60-11-4535	U	Flush mount aluminum door - single with "D" handle slam latch Flip up type with gas struts Door for R3 to have two "D" handles due to length of door	4	
60-11-5510		Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5530	S	Rollup door - to enclose transverse pump panel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point. The top transversal pump panel will be covered with a roll up door	1	MTL
60-11-5660	U	Amdor pull straps - Flex HD - Full height compartments L4 and R4	2	
60-11-99AA	U	Fold down step in L4/R4 compartments There will be a fold down step installed at the base of the L4/R4 compartments that will assist in reaching the upper portion of the compartments. There will be a mechanism to help keep the step in the stored position. As requested at the pre-construction meeting of 05.04.2021	2	

PART NO	S	DESCRIPTION	QTY	ID
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction. Switch for not stowed warning light in cab required. Tecniq Stop / Turn module in rub rail required for CMVSS	1	MTL
60-31-5500	S	Steps at rear of body (folding) w/LED lighting - RS only Maximum height between steps is 18"	1	MTL
60-31-5610	U	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"	1	
60-31-5800	S	Intermediate step on rear under hose bed	1	MTL
60-31-6500	S	Compartment matting - Black plastic Interlocking Tile	1	MTL
60-31-82AA	U	Install 4 adjustable partitions on pull out tray in L4 for rolled hose storage Four (4) partitions (three (3) spaces) for rolled hose storage.	1	
60-31-87AA	U	Sliding tray - 400 pound capacity with gas strut - adjustable in height - L1 Tray to be installed in the full depth portion of the L1 compartment White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	1	
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity - 70% extension ENG. NOTE: Specify location Trays will be installed at floor level in the following compartments: Tray #1 - Left front compartment Tray #2 - Left rear compartment - with rolled hose storage 60-31-82AA Tray #3 - Right front compartment Tray #4 - Right rear compartment ***Hardware requires 3-1/2" of compartment height White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	4	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Shelf location and depth: Shelf #1- L1 compartment and shallow depth Shelf #2 - R1 compartment and shallow depth White reflective stripe is applied on the exposed edge for visibility when the compartment door is open. As discussed at the pre-construction meeting of 05.04.2021	2	MTL
60-32-3500	S	One adjustable hose divider - 1 fixed Hand hold required in end. 1 fixed hose bed divider included for deck plate hose bed covers. Adjustable hose divider to be on the right side of the hose bed.	1	MTL
60-32-7500	S	Hose bed - aluminum Hi Vol hose to be on left side, 2.5" hose to be on the right side with divider and 2 x 4" suction hose tubes. Make hose bed as long as possible. Light tower to be mounted left to right, fill towers to be on the right side behind the 4" suction hose tubes. LS/Middle will carry 1400' of 5" hose RS will carry 700' of 2.5" hose There will be a partition mounted from the front of the body to the hose bed partition and 14" from the right side of the body to hold customer supplied foam jugs. As requested by Shane Slack by e-mail on 02.17.2022 There will be a Lumabar on the front portion of the body to illuminate the area around the monitor as requested by Shane Slack by e-mail on 02.17.2022. Light will be activated with the application of the park brake.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - Polished aluminum	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-16AA	U	Special paint compartment interior - dark gray Zolatone *** Dark gray requested *** Zolatone code to be 20-64 as approved by customer by e-mail on 12.15.2021	1	
60-33-2200	S	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Each compartment will be numbered as instructed by fire department - Black compartment number with "D" for driver, "P" for passenger and "R" for rear. Will be on the reflective stripe due to small space of compartment over the wheels and on the rear compartment as shown on the approved layout drawing. Truck # to be "541" Door Decal on chassis door Emergency 911 with telephone to match previous units on rear side rollup doors Keep Back 150 Metres on rear below the dump valve As approved by e-mail by Brandon Slack on 02.08.2022	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material	1	MTL
60-33-3320	U	Reflective stripe - red and yellow Diamond grade chevron at rear SOPT#300a	1	
60-33-351A	U	Reflective on rear flap of hose bed tarp Tarp(s) to say "Debert" on LS and "Fire" on RS in white reflective as discussed at the pre-construction meeting of 05.04.2021 SOPT in file Possible vendor - D&S Custom Covers	1	
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-33-4001	U	End tarps for walkway speedlays (black) With magnets for restraint	1	
60-33-4600		Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-33-5005	U	Power assisted hose bed covers Activation switches are located at rear over the dump line switch End tarps as per 60-33-351A with velcro restraints Door ajar switches required	1	
60-34-05AA	U	Diamondgrade Chevron on the front bumper There will be Diamondgrade chevron supplied and installed on the front bumper as requested at the pre-construction meeting of 05.04.2021	1	
60-40-5500	S	Suction hose tube (each) with door Two in tank for 6" x 15' suction (80-11-5000) - one tube to be longer so a barrel strainer can remain attached to suction hose. It will have a label to identify the longer tube (must be visible when door is open). As requested at the pre-construction meeting of 05.04.2021 Two in right side hose bed for 4" customer supplied suction hoses - accessible from rear without having to raise the hose bed covers. Lower tube to be longer so a barrel strainer can remain attached to suction hose Customer to provide dimensions of their 4" hoses; Overall length - end of coupling to end of coupling - 124" Overall length with barrel strainer attached - end to end - 136" Distance across end coupling - end of long handle to end of long handle - 11"	4	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-40-9000	S	<p>> Tube mount for ladders, through tank, with rear door ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied</p> <p>For 3 section 35' ladder (80-14-2500) Smooth painted aluminum door, with chevron applied. Flip up type door with stay(s), door ajar switch required.</p>	1	MTL
60-41-1015		<p>Pike Pole tube in suction hose tube For the two 10' pike poles 80-13-2500</p>	2	MTL
60-41-6001		<p>> Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position</p> <p>To be wired so only operable when park brake is engaged and low side compartment doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Mounted on LS of body to house the 2000 Imp gallon portable tank 80-15-1000.</p>	1	MTL
60-41-6010	S	<p>ZICO PTS switched at pump panel Switch is located on same side as electric rack on side pump panel</p>	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
60-41-9001		<p>> Zico hydraulic Ladder Access system ENG. NOTE: Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model</p> <p>To be wired so only operable when park brake is engaged and low side compartment doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For 24' 2-section (80-14-0500), 14' roof (80-14-5500) and 10' attic ladder (80-14-8500) - stored on RS of body</p>	1	MTL
60-41-9010	S	<p>ZICO LAS switched at pump panel Switch is located on same side as electric rack on side pump panel</p>	1	MTL
60-41-91AA	U	No manual locking system required for LAS hydraulic system	1	
60-91-0500	S	<p>> Three pocket compartment in rear wall - L4 and R4 - to be as large as possible ENG. NOTE: Specify location and number of cylinders to be stored</p> <p>Similar to Oakhill (except just pockets, No SCBA cylinder storage) Compartments to be as large and deep as possible to avoid wasted space in the body.</p>	2	MTL
60-91-0700	U	<p>Wheel well storage compartment - for wheel chocks - left side For storage of the two wheel chocks 80-19-0500 Drop down type door, smooth painted plate, lift and turn latches. Door ajar switch required WHMW on the bottom of the storage as discussed at the pre-construction meeting of 05.04.2021 SOPT#144</p>	1	
60-91-07AA	U	<p>Wheel well storage compartment - for fire extinguishers - right side For storage of Customer's fire extinguishers Drop down type door, smooth painted plate, lift and turn latches.</p>	1	

PART NO	S	DESCRIPTION	QTY	ID
		Door ajar switch required SOPT#144 Customer to provide overall length and diameter of the extinguishers to be stored: Size to be for two (2) standard water extinguishers as discussed at the pre-construction meeting of 05.04.2021		
60-91-0800	U	Swing out tool board (ea) - peg board style in upper portions of L4 and R4 Customer specified that center to center of holes (1-7/16" is standard for PAC mounting brackets) is acceptable. The tool boards will be as large as possible in the shallow portion of the compartment and they will cover the storage tubes 60-91-0500 like Oakhill, NS. As discussed at the pre-construction meeting of 05.04.2021	2	
INSTRUMENTATION				
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-1100	U	Black Zolatone instrument panel - top No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position Zolatone code to be 20-06 as approved by customer by e-mail on 12.15.2021	1	MTL
70-11-1110	U	Black Zolatone instrument panels - side The side panels will be black Zolatone to match the top panel (70-11-1100) Zolatone code to be 20-06 as approved by customer by e-mail on 12.15.2021	1	
70-11-2000	S	Top mount instrument panel - with Amdor roll up type door over panel opening No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-2500		Transverse walkway There will be a full width step above the walkway compartment door (70-11-3500)	1	MTL
70-11-2600		Tread plate overlay on back of chassis cab Chassis won't have back window. Install deck plate as high as feasible.	1	MTL
70-11-3000		Mansaver bars - 22"	1	MTL
70-11-3200	S	Colour coded tags Imperial units Customer's preferred colors for the following discharges: Speedlay 1 - Red Speedlay 2 - Blue 2.5" Trashline - Yellow 2.5" Crosslay - Green As discussed at the pre-construction meeting of 05.04.2021 and confirmed by DC Brandon Slack by e-mail on 06.28.2021	1	MTL
70-11-3500	>	Compartments in ends of walkway ENG. NOTE: Flush mount doors with quarter turn "D" handle latches and tread plate overlays Final dimensions will depend on space available when chassis is received and design is complete. The door will be smaller than the compartment due to the full width step above the door to allow access to the walkway (70-11-2500) The compartment will have a 4" recessed light, will be zolatoned to match the body compartments (60-33-16AA) and will be wired to the door ajar circuit (50-21-5500)	1	MTL
70-11-4506	U	Diamondback grip type panel hood step right side	1	

PART NO	S	DESCRIPTION	QTY	ID
70-11-4606	U	<i>Diamondback grip type panel hood step left side</i>	1	
70-11-47AA	U	<i>Amdor Super Bright panel light</i> SOPT#49a	1	
70-11-5500		<i>Right side tread plate pump access door</i> No opening dimension less than 18"	1	MTL
70-11-5600		<i>Left side tread plate pump access door</i> No opening dimension less than 18"	1	MTL
70-11-5700		<i>Transverse tread plate pump access door</i> No opening dimension less than 18"	1	MTL
70-11-7500		<i>Heat pan-aluminum</i>	1	MTL
70-11-8000		<i>Heater in pump compartment</i> Switch located on transverse pump operators panel	1	MTL
70-20-2500	S	<i>Primer control - Trident</i> For the main pump	1	MTL
70-20-2501	S	<i>Additional Primer control - Trident</i> One for left side 6" MIV, one for the right side 6" MIV	2	MTL
70-20-3300		<i>FRC InControl Governor Control</i> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3670	<	<i>Electric water level gauge on pump panel, FRC WLA300-A00</i> SOPT #59	1	MTL
70-20-36AA	U	<i>FRC MaxVision - left, rear and right sides of body</i> Interlock with park brake SOPT#973	1	
70-20-6500		Test gauge panel	1	MTL
70-20-7500		<i>Heat exchanger control valve</i>	1	MTL
70-21-1650	U	<i>FRC WLA360-A00 Foam level gauge</i>	1	MTL
		ACCESSORIES		
80-11-5020	U	<i>6" x 15' lightweight suction hose (ea)</i> Tube mounted (60-40-5500)	2	
80-11-6010	S <	<i>TFT Detent Elbow - 6" NHM x 6" NHF, 30 degree, rigid male to swivel handle</i> SOPT #1162 - truck specific Model AJ8NX-NX Customer specified the adapter to be installed on the left side suction - as discussed at the pre-construction meeting of 05.04.2021	1	MTL
80-12-2500		<i>6" barrel strainer</i> Attach to one of the suction hoses	1	MTL
80-13-0500		<i>Rubber mallet</i> Shipped loose, not mounted	1	MTL
80-13-1500		<i>Bar with bracket</i> Mounted in standard location on back face of body above rear step/tailboard.	1	MTL
80-13-2500		<i>Pike pole, fibreglass handle - 10' long</i> Tube mounted.	2	MTL
80-14-0500		<i>24' 2 section extension ladder PEL 24</i> Mounted on LAS	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-14-2500		35' 3 section extension ladder PEL3-35 Tube mounted	1	MTL
80-14-5500		14' aluminum roof ladder PRL-14 Mounted on LAS	1	MTL
80-14-8500		10' aluminum folding attic ladder FL-10 Mounted on LAS	1	MTL
80-14-9000		Attic ladder bracket (Zico) Mounted on LAS	1	MTL
80-15-1000	S	2000 l gallon portable tank - Husky Mounted on PTS The color of the porta tank will be yellow as discussed at the pre-construction meeting of 05.04.2021	1	MTL
80-19-0500	S	Large folding wheel chock - aluminum (ea) Stored in the left side fender compartment	2	MTL
80-99-05AA	U	TFT 6" female NH x 5" Storz elbow and cap 5" Storz elbow model#AJ1ST-NX SOPT#1162 To be installed on the right side suction - as discussed at the pre-construction meeting of 05.04.2021	1	
80-99-06AA	U	4" Storz to 5" Storz adapter with 5" end cap To be installed on the Direct Fill 40-31-8000	1	
80-99-20AA	U	2.5" x 1.5" reducing caps - chrome plated (ea) Installed on 2-1/2" right discharge, 2-1/2" rear discharge and both 2-1/2" left discharges unless otherwise specified. Metalfab part # 1501296 and 1500281	5	
80-99-25AA	U	TFT 2.5" Wye to dual 1.5" model AYNJ-NF There will be a TFT 2.5" wye with dual 1.5" outlets supplied and installed on the front trash line 30-44-11AA as requested at the pre-construction meeting of 05.04.2021 There will be a 1.5" end cap mounted on the side of the wye that is not being used for the pre-connected trashline. It will prevent road grime from getting into the wye and protect the firefighter if the wrong side of the wye is opened. As requested by Shane Slack by e-mail on 02.11.2022	1	
80-99-26AA	U	TFT XG18VL-PL (vic inlet x npt outlet) There will be a TFT XG18VL-PL riser installed on the monitor plumbing 30-44-66AA for a customer supplied Elkhart Vulcan 8500-003 as approved by customer by e-mail on 12.24.2021	1	