



Shop Order

Township of Severn
 PO Box 159
 1024 Hurlwood Lane
 Orillia, ON L3V 6J3



Exp. Date: 04/10/2017
Quote No: E-Severn-ON-0009
Job/Order No: 19726
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

07/19/2018

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER D	1	MTL
00-00-0020	U	Exceptions to Tender form	1	
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700		Hale Pump Warranty - 5 years	1	MTL
00-20-1800	S	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		Quality System registered to ISO 9001:2008	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	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
		Include the following to comply with NFPA 1901-2016		
		**Safety signs with text to meet Section 4.9.4		
		**Brake lights to operate with the engine auxiliary brake (Section 12.3.1.4.3). The Spartan chassis is equipped with this function (Code 1713-010)		
		**Safety delineation for standing and walking surfaces to meet Section 15.7.1.6		
		**Hose restraint safety signs at each hose storage area to meet Section 15.10.6		
10-11-1500		> ULC Testing - Pumper	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		Maximum height not specified E	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000	S	Manuals - two copies	1	MTL
		***Two copies of chassis manuals are required.		
		One copy of all operator, service, and parts manuals MUST be supplied at the time of delivery in electronic format. The electronic manuals shall include the following information:		
		Operating Instructions, descriptions, specifications, and ratings of the cab, chassis, body, installed components, and auxiliary systems.		
		Warnings and cautions pertaining to the operation and maintenance of the fire apparatus and fire fighting systems.		
		Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.		
		Instructions regarding the frequency and procedure for recommended		

PART NO	S	DESCRIPTION	QTY	ID
		<p>maintenance. Maintenance instructions for the repair and replacement of installed components. Parts listing with descriptions and illustrations for identification. Warranty descriptions and coverage. The USB Stick shall incorporate a navigation page with electronic links to the operator's manual, service manual, parts manual, and warranty information, as well as instructions on how to use the manual. Each copy shall include a table of contents with links to the specified documents or illustrations. The USB Stick must be formatted in such a manner as to allow not only the printing of the entire manual, but to also the cutting, pasting, or copying of individual documents to other electronic media, such as electronic mail, memos, and the like. A find feature shall be included to allow for searches by text or by part number. These electronic manuals shall be accessible from any computer operating system capable of supporting portable document format (PDF). Permanent copies of all pertinent data shall be kept file at both the local dealership and at the manufacturer's location. See SOPT 414 for PDF formatting.</p>		
10-11-3600	S	<p>> Delivery - FOB Fire Department - by CCEV ENG. NOTE: Note in the shop note if more than 4 hours of training is required</p>	1	MTL
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1400	S	<p>> Hose capacity exceeding ULC/NFPA requirements ENG. NOTE: Specify the type of hose and quantity of hose to be carried on the vehicle</p> <p>Main hosebed shall have capacity for the following 600' - 1/3/4" hose 600' - 2-1/2" hose 1000' - 4" hose</p>	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	<p>Chassis supplied by Metalfab - Spartan Metro Star MFD with 10" raised roof 51,000 GVW 20,000 lb front axle 31,000 lb rear axle 195" wheel base, 141" cab to axle Cummins L9 380 HP @ 2000 rpm, 2200 governed rpm, 1150 ft-lb torque @ 1400 rpm Allison 3000 EVS automatic transmission, 1710 HD drive lines 320 Amp alternator, engine compression brake Polished aluminum wheels with trim - Alcoa Dura-Bright Color L6572 EG Red Includes option for front discharge pre-plumbing, Code 2237-004 Cab tilt control inside pump compartment door RS same as M11-15321 is OK Windows in rear chassis doors to be sliding</p>	1	MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	S	Chassis Motor Vehicle Inspection required - by Carrier upon delivery	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1040		Maximum riders sign - 6 persons	1	MTL
20-21-1510		Seat belt warning labels - 4 door chassis	1	MTL
20-21-1520		Helmet warning label - do not wear helmet	1	MTL
20-21-1530		Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		<p>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"</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
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
20-31-0100		Fuel tank or step covers not required	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900	S	Chassis cab painted by chassis OEM	1	MTL
20-41-0600		Intake air shutoff for engine not required	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.	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
20-41-2550		Fuel fill at LS rear fender well	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
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3100	S	Air inlet supplied by Spartan	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-3500	S	Air outlet Pump panel with snubber/shutoff on pump panel SOPT #115	1	MTL
20-51-6501	S	Battery Charger with Spartan chassis complete with auto eject Battery charger located behind driver's seat PumpPlus compressor located behind officer's seat	1	MTL
20-51-7102		Electric System Manager included with chassis E	1	MTL
20-51-9001	S	Air horns as supplied by chassis OEM	1	MTL
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-05AA	U	Front Stainless steel hinged license plate bracket - centered under front bumper SOPT #1054	1	
20-99-10AA	U	Extend air tank moisture ejectors to rubrail and tag	1	
20-99-15AA	U	Relocate manual cab tilt override to front right compartment	1	
20-99-20AA	U	Cab Map Box An aluminum map storage box shall be installed in the cab and shall be mounted on the vertical uprights located between and just behind the driver and officer seating position. The box shall be constructed of 1/8" (.125) smooth aluminum. Two hinged drop down doors with push button latches to match M11-15321 shall be installed on the front of the box. The driver's side storage will be open for general use. The officer's side storage area shall have slots four (4) equally spaced horizontal slots for storage of ring binders, map books, etc. The box shall be secured to meet with current NFPA requirements. The map storage box shall have approximate dimensions of: 19 "high x 30" wide x 15" deep. Similar to M11-15321 - see pics 6571 and 6572 and SOPT 1052 Exterior finish to be Gray Zolatone to match cab interior	1	

PART NO	S	DESCRIPTION	QTY	ID
20-99-25AA	U	Air horn control on pump panel SOPT 475 Label this control "AIR HORN"	1	
20-99-30AA	U	Install access door each end of rear forward facing seat riser Same as M11-15321 - see pic 6573 and SOPT in file. Finish to be Gray Zolatone to match cab interior.	1	
PUMP AND PLUMBING				
30-11-5600		Hale QFLO Single stage 1050 IGPM	1	MTL
30-12-3300		Mechanical seal for Hale QFLO/QPAK pumps	1	MTL
30-15-0104		Plumbing - Hale manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002	S	Akron valves for suction and discharges	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 - CSA	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.	1	MTL
30-21-5560		Tank to Pump SS 3" w/ check valve manifold pump	1	MTL
30-22-1520		Tank Fill valve 2-1/2" SS	1	MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	MTL
30-31-50AA	U	6" front suction, 5" piping to front, SS, pre-plumbed by Spartan Controlled by electric valve 30-31-7200	1	
30-31-7200		> Hale master intake suction valve - electric control ENG. NOTE: Required for top mount panels Show location in Shop Note For the 6" Left, right and front suction intakes. All electric controls will be on the left side operators panel. The left and right manual hand wheel over ride controls are adjacent to the respective valve. The manual over ride for the front suction shall be on the right side pump panel.	3	MTL
30-32-7530		Suction - 2-1/2" left side SS, bleeder, Hale manifold pump	1	MTL
30-32-8030		Suction - 2-1/2" right side SS, bleeder, Hale manifold pump	1	MTL
30-40-2020		4" right discharge SS, plumbed 3", Hale manifold pump	1	MTL
30-41-2020		2-1/2" RS discharge SS, bleeder, Hale manifold pump	1	MTL
30-41-2520		2-1/2" LS discharge SS, bleeder, Hale manifold pump	2	MTL
30-43-1520	S	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder Located offset to right as shown on the drawing to allow installation of gated wye	1	MTL
30-44-0520		1-1/2" crosslay (each) SS, 2" valve, bleeder 200' x 1-3/4" hose capacity in each lay. Stainless steel rollers are installed on each end.	2	MTL
30-44-1020		> 1-1/2" front trash line SS, plumbed 2", hosewell ENG. NOTE: Requires extended front bumper, gravelshield 150' x 1-3/4" hose capacity to match M11-15321. Hose bed slats in bottom of hose well. Autodrain(s) installed at low point(s)	1	MTL
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder Piping to be terminated even with the top of the pump house so customer monitor will be located above the pump house. Autodrain will be installed	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-51-0500	S	Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel Mounted on engine tunnel as chassis air bags prevent mounting low to right of steering wheel	1	MTL
30-51-0600		Manual over ride for pump shift on pump panel by Metalfab	1	MTL
30-51-6630		Class One "TPG" Governor/Throttle	1	MTL
30-51-7000		Suction side relief V/V, manifold pump	3	MTL
30-51-7700		Primer Hale oil less ESP with oil tank Hale Indicator light on panel to show when primer is operating The priming valve shall be electronically interlocked to the "Park Brake" circuit to allow priming of the pump before the pump is placed in gear.	1	MTL
30-51-7800		Pre Primer for gated suction Hale primer Front suction only	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	MTL
30-52-1088	U	Master drain V/V, 6 port automatic air Automatic air drain valve - P/n 1550449 Switch - P/n 1550450	1	
30-52-11AA	U	Air assisted front discharge drain See SOPT 403 (to match M11-15321)	1	
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 both Crosslays and the rear 2-1/2" discharge	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		
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000	S	Tank capacity 860 Imperial Gallons (1030 US Gallon)	1	MTL
40-12-5000	S	Foam cell - 25 Imperial gallon (30 US Gallon)	1	MTL
40-21-0500		3" tank to pump connection	1	MTL
40-22-1000		3" tank fill connection	1	MTL
40-23-0500		1" water level gauge connection	1	MTL
40-23-1000		1" foam level gauge connection	1	MTL
40-30-0500	S	Sump drain valve (3" gate valve) with turn linkage Standard 3" gate valve	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400		Rear dump valve not requested E	1	MTL
40-31-6050		Rear fill not requested E	1	MTL
		ELECTRICAL		
50-11-0400	S	Base electrical system - Spartan multiplex No Vista display necessary as the Cencom siren will control all functions	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
50-11-14AA	U	Whelen CenCom Siren A Whelen CenCom Sapphire control module shall be installed to control the operation of the Siren, Emergency Lights, Work Lights and Traffic Advisor. The CenCom shall be recessed in the center console. Desired switch program to be emailed to Metalfab to match the last truck.	1	
50-11-2600		Siren to be accessible to driver and officer	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-11-6110	S	Whelen light bar included with chassis	1	MTL
50-11-6616	U	Rear LED Traffic Advisor warning lights - flush mount Approximately 31.5" long - controlled by the CenCom 50-11-14AA Similar to a TAM83 - Must be WeCan compatible to be controlled by the CenCom To be recessed in the back of the body	1	
50-11-8600		Rear LED beacons-Whelan MCFLED2R (pr) both red	1	MTL
50-12-8000		Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25'	1	MTL
50-12-8521		Front flashers, intersection lights included with chassis, Whelen 600	1	MTL
50-12-8610		Rear LED flashers (pr)-Whelan red LED 600 with integral flasher	1	MTL
50-12-8810		Body side inter lts (pr)-Whelan red LED 600 with integral flasher	1	MTL
50-21-1520	U	PFBP12C LED rear floods (pr) SOPT 955 Mounted on rear as shown on the proposal drawing, switched by a separate switch on the CenCom.	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500		Door Ajar warning light Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Include symbol(s) to meet NFPA	1	MTL
50-21-5550		Equipment rack not stowed warning light Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Include symbol(s) to meet NFPA	1	MTL
50-21-8001		Step lights for body steps - 4" LED	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
50-31-6505	S	Ground lighting included with chassis - LED	1	MTL
50-31-65AA	U	Hose bed lights on front partition to meet ULC Switched on CenCom	1	
50-31-6620		Ground lighting (4" LED) - side mount body Switched on CenCom	1	MTL
50-31-7000		> Work light for crosslay hose beds ENG. NOTE: Required if there is no permanent cover over the crosslays Controlled with hose bed light switch (on CenCom).	1	MTL
50-99-0010	U	Weldon VFD display A Weldon VFD display will be provided to provide messages from the VMUX electrical system, when no messages present, the Fire Department name will be displayed	1	
50-99-05AA	U	750 Watt, 120 Volt Telelight - FCA510E-S75-SW-ON P/N 1031588 Mounted down through the rear beavertails. Switched on light head and wired to door ajar warning light in cab to indicate when the light is not in the stowed position (when the park brake is released).	2	
50-99-06AA	U	750 Watt, 120 Volt Tripod - FCA600-S75-ON-G-6F3-P3 P/N 1001264 Mounted on the back of cab as shown on the proposal drawing. Switched on light head, L5-15 3 prong plug (standard) Provide scuff plate on back of cab to prevent damage from light head when mounted	2	

PART NO	S	DESCRIPTION	QTY	ID
51-31-2500	S	> 5000 watt portable generator, electric start, wired to chassi battery ENG. NOTE: Requires sliding tray Specify 51-31-30 if breaker panel and 110 volt wiring required Installed in pull out tray in right side rear compartment Quick disconnect for 12 volt wiring for electric start	1	MTL
51-31-3000	S	> 120 volt wiring for portable generator ENG. NOTE: Specify number and capacity of circuits, location and complete specifications of all electrical devices to be installed. Note that Neutral is bonded to chassis ground. Breaker box shall be located forward facing on the rear side wall in upper part of L1(Left side front compartment).	1	MTL
51-31-4000	S	> Electric cord reel with 200' x 10/3 yellow cable, lighted box ENG. NOTE: Specify receptacles required in junction box Akron low profile reel ERWC-10-28, painted red Located in upper portion of B1 (back compartment) officers side. The lighted junction box will have four (4) 20 Amp 110 Volt twist lock receptacles L5-20	1	MTL
51-31-4500		Dielectric strength test for line voltage system	1	MTL
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body Fender liners will have removable bolt on access plates.	1	MTL
60-10-2290	U	AMDOR extruded aluminum bottom edge of compartment openings An AMDOR extruded aluminum bottom door sill trim shall be located at the bottom edge of compartment LI, L2, L3, R1, R2 and L3 opening. The trim shall provide added protection of painted surface of the body when equipment is removed from the compartment.	1	
60-10-40AA	U	Squared beaver tails to house extendable lights SOPT 474	1	
60-10-4500		Aluminum tread plate fender surround - single axle	1	MTL
60-10-4700		Integral aluminum fender trim	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 2" White reflective installed in rub rails	1	MTL
60-11-0300	S	> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0700		> Front right side compartments full height E 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

PART NO	S	DESCRIPTION	QTY	ID
60-11-1400		> Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	2	MTL
60-11-3200		> Full Height Rear compartment ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-5500		Rollup door - standard 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	5	MTL
60-11-5650	U	Roll up door pull down straps Include AMDOR FLEX-HD straps with doors	7	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5500	S	Steps at rear of body (folding) - LED lighted Maximum height between steps is 18" Recessed inside beavertails same as M11-15321	1	MTL
60-31-5600		Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"	1	MTL
60-31-6500		Compartment matting-Turtle tile	1	MTL
60-31-8000		BA bottle compt (ea)-fender well	3	MTL
60-31-8400	S	Fixed vertical partition As shown on the proposal drawing: Partition #1 - Left side rear compartment forward of outside arm ladder rack hydraulic cylinder arrangement, width of SCBA storage. Partition #2 - Left side rear compartment rearward of Partition #1, forward of outside arm ladder rack hydraulic cylinder arrangement. Partition #3 - Right side rear compartment rearward of generator tray.	3	MTL
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity with gas strut ENG. NOTE: Specify location Tray #1 - Right side front compartment Tray #2 - Right side rear compartment - for generator Tray #3 - Back compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	3	MTL
60-31-9000		> Tip down tray - 30 degree, 250 pound capacity ENG. NOTE: Specify location Tip down trays are located in the following compartments; Tip Down #1 - Right side front compartment Tip Down #2 - Right side compartment over rear wheels Tip Down #3 - Right side rear compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	3	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-31-9600	S	> <i>Adjustable shelf (ea) 5 adjustable, 2 fixed</i> ENG. NOTE: Specify location Shelves are located in the following locations; Fixed shelf #1 - Left side front compartment at the depth change Fixed shelf #2 - Left side rear compartment at the depth change Adjustable shelf #1 - Left side rear compartment in upper section. Adjustable shelf #2 - Left side front compartment in lower section Adjustable shelf #3 - Right side front compartment in mid section Adjustable shelf #4 - Right side rear compartment in mid section Adjustable shelf #5 - Back compartment in mid section Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	7	MTL
60-31-97AA	U	<i>Fixed Tool board on back wall of L1</i> Located in the upper section of the left side front compartment (to match M11-15321). Spaced out to match M11-15321. SOPT 1166	1	
60-32-3560		<i>Three adjustable hose divider (each)</i> Hand hold required in end	1	MTL
60-32-7500		<i>Hose bed - aluminum</i> Main hosebed shall have capacity for the following 600' - 1/3/4" hose 600' - 2-1/2" hose 1000' - 4" hose	1	MTL
60-33-0100		<i>Paint exterior - Imron Elite and clearcoat E</i> *** Paint code and colour red to match cab - *** Clearcoat required***	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		<i>Chassis wheels not painted</i>	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2300	S	<i>Lettering - to match M11-15321 except P-3</i> See Photos in M11-15321 folder: DSC_6552, 6555, 6557, 6559, 6567 Include Canadian flag inside cab doors at bottom	1	MTL
60-33-3300	S	<i>Reflective stripe - Per Tender and as directed by Customer</i> Minimum 6" reflective white 50% of perimeter each side and 25% of perimeter front 2" reflective will be installed in rub rails	1	MTL
60-33-3310		<i>Reflective stripe - red and yellow chevron at rear</i> Minimum 50% of rear vertical surface	1	MTL
60-33-3500		<i>Tarp over hose bed - black</i> A hosebed cover will be provided and secured to top body flanges by quarter turn snaps at front of hosebed and Velcro on each side edge of the cover. A weighted flap will be furnished at the front of the cover, and Velcro straps will be provided on the rear of the cover to tie around the rear handrail. Color to be black. ***Include hose restraint safety signs at each hose storage area to meet NFPA Section 15.10.6	1	MTL
60-33-4600		<i>Aluminum cover over crosslays - with end tarps (black)</i> Cover is hinged at front ext to cab to match M11-15321. Small tarps attached with 1/4 turn fasteners and Velcro straps to enclose each end are provided. ***Include hose restraint safety signs at each hose storage area to meet NFPA Section 15.10.6	1	MTL
60-40-9000	S	> <i>Tube mount for suction hoses with rear door</i> ENG. NOTE:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied		
		<p>A storage compartment shall be provided at the rear body compartment. The storage compartment shall located to the drivers side of the rear compartment below the 2-1/2" discharge.</p> <p>The storage compartment shall be approximately 11" x 28" high x the length of side assembly.</p> <p>The storage shall store three (3) 6" hard suction storage racks. The storage racks shall be positioned one (1) above the other.</p> <p>The storage compartment shall include a vertically hinged door to secure contents (hinge towards centre of body to match M11-15321). The door shall be constructed of 3/16" (.187") aluminum smooth painted plate and shall have a lift and turn latch.</p> <p>Door ajar switch is required.</p> <p>Customer to provide the dimensions of their suction hose to ensure proper fit of hose</p> <p>Overall length of hose - _____</p> <p>Overall coupling distance - included long handles - 13-1/2"</p>		
60-41-9600	S	<p>> Zico Outside Arm Ladder Access system</p> <p>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. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. The ladder brackets/rack to store a one (1) three section 35' and one (1) 14' roof ladder, one 10' attic ladder (all Duo Safety, ref 80-14-0588 and 80-14-9000) and two 12' pike poles (ref 80-13-3000 and 80-99-10AA). The Hydraulic Power Supply for the 2-Arm Ladder Rack shall be beside the foam tank in the front of the hose bed. Required storage space for hydraulic power supply: 17" wide x 22" long x 12" deep.</p>	1	MTL
60-41-9610	S	<p>ZICO OALAS switched at rear above tail light</p> <p>Locate on LS of body</p>	1	MTL
60-91-0500	S	<p>> Compartment SCBA Storage rack E</p> <p>ENG. NOTE: Specify location and number of cylinders to be stored</p> <p>Lower part of L3: Number of Cylinders - 9 Diameter of Cylinders - 6" QA length of cylinders including valve - 24"</p>	1	MTL
60-99-05AA	U	<p>Corner guards - front of body and rear of body - .063 Alum tread</p> <p>1/16" aluminum treadplate - P/n 3040154 SOPT 531</p>	1	
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500	S	<p>Side mount instrument panel</p> <p>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 Provide clearance for OALAS on LS pump panel - double extrusion</p>	1	MTL
70-11-1500		<p>Stainless steel instrument panels</p> <p>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</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		position		
70-11-2100	U	LED pump compartment lights - two 4" grommet mounted SOPT 466	1	
70-11-3200		Colour coded tags	1	MTL
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-4500		Diamondback grip type panel hood step right side **Safety delineation for standing and walking surfaces to meet Section 15.7.1.6 of NFPA	1	MTL
70-11-5100		Open storage at rear top of pump house To be 3/16" aluminum treadplate - sides and floor Plumb drains down to below frame level.	1	MTL
70-11-55AA	U	RS pump access door - 3/16" Alum tread, horizontally hinged, gas struts SOPT 533 No opening dimension less than 18" D handle latch and one gas strut to match M11-15321	1	
70-11-7500	S	Heat pan-aluminum To be as high as possible - higher than M11-15321 if possible	1	MTL
70-11-80AA	U	25,000 BTU pump compartment heater (2) Switched on left side pump operators panel	1	
70-20-0500		4-1/2" compound gauge - dual face 0-600 To be within 8" of each other - edge to edge	2	MTL
70-20-1500		2-1/2" pressure gauge - dual face 0-600 Gauge to be no more than 6" from edge of the gauge to the center of the control.	9	MTL
70-20-2500		Primer control	2	MTL
70-20-3100		Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7000	U	Pump speed counter Required per page 33 of Tender. Confirm at the pre-construction meeting	1	
70-20-7500		Heat exchanger control valve	1	MTL
70-20-7600		Pump cooler control valve	1	MTL
70-21-1000	S	Low Voltage Alarm - with the TPG	1	MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One Include access to and room for sender in front of body and back of pump house	1	MTL
70-21-2000	S	> Hourmeter - Pump hours ENG. NOTE: Specify location in shop note	1	MTL
70-99-05AA	U <	Fuel gauge on pump panel Fuel tank has provision for second sender and fuel pickup with chassis, sender and gauge not provided with chassis	1	
ACCESSORIES				
80-13-3000		Pike pole bracket Mounted on ladder rack for 80-99-10AA pike poles	2	MTL
80-13-3500		Axe, pick head, wooden handle and bracket Mounted as directed by Customer	2	MTL

