



Shop Order

Township of Warwick
 6332 Nauvoo Road
 RR #8
 Warwick, ON NoM 2S0



Exp. Date: 10/15/2018
Quote No: Warwick, ON Pumper-0018
Job/Order No: 20574
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

12/05/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER H	1	MTL
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
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S	Plant Inspection Visit - final inspection, 2 persons - Costs covered by CCEV	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		
10-11-0000		Intent E	1	MTL
10-11-0105		Vehicle Data Recorder not requested E	1	MTL
10-11-1100	S	ULC S515-13 Compliance	1	MTL
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		Manuals - two copies ***Two copies of manuals are required.	1	MTL
10-11-3600	S	> Delivery - FOB Fire Department - by CCEV	1	MTL
		ENG. NOTE: Note in the shop note if more than 4 hours of training is required		
10-11-4200	S	Payment Terms - Chassis and Body COD	1	MTL
10-20-1000		Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper This vehicle is designed to carry the standard ULC miscellaneous equipment load of 2000 pounds.	1	MTL
		CHASSIS INFORMATION		
20-11-1000	S	Chassis supplied by Metalfab - Freightliner four door M2 106	1	MTL
		41,600 lb GVW 14,600 lb front axle 27,000 lb rear axle		
		256" Wheelbase 143.21" Cab to axle		
		Cummins L9 330 HP @ 2000 rpm 2200 governed rpm		
		1000 lb/ft torque @ 1400 rpm		
		Allison 3000 EVS automatic transmission, LH PTO opening		
		275 Amp alternator		
		189 liter fuel tank, LH under cab		
		Safety kit included		
		ESC		

PART NO	S	DESCRIPTION	QTY	ID
		<p>Colors and paint line to match M10-15027 Red was L3240EB White was N0006 ***Spray outs for Customer sign off required*** Top of hood was white and paint line was upper portion of cab just under windows</p>		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required - by CCEV	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1030		Maximum riders sign - 5 persons	1	MTL
20-21-1510		Seat belt warning labels - 4 door chassis	1	MTL
20-21-1530		Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		Apparatus Information Label	1	MTL
		<p>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>		
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
20-31-1100		Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr One piece design	1	MTL
20-31-1500	S	<p>> Special compartment in chassis steps - RS only ENG. NOTE: Specify any required dimensions, latch type in the shop note</p> <p>Compartment to be as large as possible. Vertically hinged deck plate door with "D" handle - open toward the front. Lighting and door ajar switch required. Drain holes and black plastic interlocking tile required.</p>	1	MTL
20-31-1900	S	<p>Chassis cab paint two tone by chassis OEM - white over red The paint lines were approved by e-mail on Jan 2nd, 2019.</p>	1	MTL
20-31-4700	S	<p>> Extend front bumper, gravshld with preconnected hosewell ENG. NOTE: Note location of preconnect elbow Note special capacity requirements_____</p> <p>***Bumper to be extended approximately 20" ahead of cab. The chrome swivel to be on top of the gravel shield. Hose well to hold 150' of hose and nozzle. The cover will have a notch for the pre-connected hose line and the cover will be held closed by a D-handle latch as discussed with the customer on 08.26.2019 .</p>	1	MTL
20-31-7500	S	<p>Console in cab Install switch panel (50-11-0900), siren (50-11-1400), USB connection (20-99-05AA). 2" x 7" cutout for Motorola XPR 5550 radio (50-35-0500), joystick for bumper monitor (ref 80-99-05AA), PTO shift for pump (30-51-1500), and the PTO hour meter (70-21-2100) in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Storage included for 4 Customer supplied portable radios and Thermal Imager. Dark Red Zolatone finish Customer provided Make, Model and dimensions so adequate space can be provided:</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Thermal Imager is a FLIR K55 that measures 7" wide x 14" long The four (4) Motorola charging bases measure 4" wide x 6" long each ***Design and layout to be sent to Customer for approval before build - approved by e-mail on 08.27.2019		
20-41-0600	S	No intake air shutoff for engine	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	1	MTL
		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.		
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
20-41-5200	S	Rear trailer receiver and trailer wiring - Class III/IV, 7 pin connector 7 pin round connection wired to industry standard and the male end will be shipped loose with the completed unit as discussed with the customer on 08.26.2019.	1	MTL
20-41-5210		Front receiver	1	MTL
20-41-5215		Side receiver, under body	2	MTL
20-51-0710		Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3100	S	No air inlet	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection (ea) ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle, not fused Locations are as follows; Receptacle #1 - Back wall of console Receptacle #2 - Left side front compartment on back wall in the rear upper corner Receptacle #3 - Left side compartment over wheels on back wall in the upper forward part of compartment Receptacle #4 - Left side compartment over wheels on back wall in the lower forward part of compartment Receptacle #5 - Right side front compartment on back wall in the upper forward corner Receptacle #6 - Right side front compartment on back wall in the upper rear corner	6	MTL
20-51-6600		Kussmaul Pump Plus conditioner/compressor Conditioner is mounted on floor behind/under rear seat. Compressor is located in the pump house, easily accessible through the right side pump access door.	1	MTL
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located in left side cab step area.	1	MTL
20-51-8510		Engine compartment lights LED (pair) One required each side to light up complete engine compartment Switched when park brake is set.	1	MTL
20-51-9001	S	Air horns on hood controlled by dual lanyards supplied with chassis	1	MTL
20-52-0500		Rear step to cab buzzer Momentary switch to activate buzzer is location on rear of body over the left tail light module.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4000		Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab mounted on cab dash	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-05AA	U	Kussmaul dual USB Charging Port Kussmaul 091-219-4 Metalfab p/n 1521659 SOPT #467 Located in 20-31-7500 console at the end of the rocker switch row.	1	
PUMP AND PLUMBING			1	MTL
30-11-3002		> Waterous CXVPA 1250 PTO driven pump - 1050 IGPM ENG. NOTE: Use LS PTO	1	MTL
Mounted between frame rails (Center mounted)				
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1001		Valve brand not specified E	1	MTL
30-20-1620		Piping stainless steel - non manifold Pumper	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
30-20-2510		Anodes in suction and discharge piping - non manifold pump 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
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump 4" piping	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020		Suction - 6" not gated each side SS non manifold pump 6" header	1	MTL
30-31-5100		Suction - 4" SS piping to rear - handwheel control - 6" connection E Bleeder required (at rear)	1	MTL
30-31-7220		Butterfly valve handwheel control remote indicator light closed only Indicator light is located adjacent to the hand wheel control on the left side pump panel.	1	MTL
30-32-7550		Suction - 2-1/2" left side SS, bleeder, non manifold pump Controlled at the valve.	2	MTL
30-32-8050		Suction - 2-1/2" right side SS, bleeder, non manifold pump Controlled at the valve.	2	MTL
30-40-2006	S	4" right discharge, plumbed 3", non manifold pump, bleeder Red Head Storz adapter cap.	1	MTL
30-40-2599	U	4" rear discharge, plumbed 3", non manifold pump, bleeder There will be a rear discharge plumbed with a 3" valve, controlled from the pump panel and will have a 4" Red Head Storz adapter cap.	1	
30-41-2040	S	2-1/2" RS discharge SS, bleeder, non manifold pump Install reducing cap 80-99-20AA (to replace standard 2-1/2" CP cap).	1	MTL
30-41-2540	U	Price Adjustment	1	
30-41-2540	S	2-1/2" LS discharge SS, bleeder, non manifold pump Install reducing cap 80-99-20AA (to replace standard 2-1/2" CP cap).	2	MTL
30-43-1520	S	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder *** One each side	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Install reducing cap 80-99-20AA (to replace standard 2-1/2" CP Cap)		
30-44-1020		> 1-1/2" front trash line SS, plumbed 2", hosewell ENG. NOTE: Requires extended front bumper, gravelshield See also 20-31-4700	1	MTL
30-44-1040		> 2" front discharge for monitor, electric valve and monitor extra ENG. NOTE: Requires extended front bumper, gravelshield Right of trash line hose well on front bumper Ref 80-99-05AA	1	MTL
30-51-0400		Pump shift - PTO Pump and Roll ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode.	1	MTL
30-51-1500		Power shift PTO - Automatic transmission To drive the pump. PTO switch is located in the 20-31-7500 console.	1	MTL
30-51-1501		> PTO driveshaft E ENG. NOTE: Quantity of 2 for pumps mounted on 4 door cabs due to length	1	MTL
30-51-6640		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7002		Suction side relief V/V, non manifold pump SSRV's for the following; Main pump 6" rear gated suction	2	MTL
30-51-7500	S	Primer electric vane type 12V with oil tank Waterous with no pre-prime Indicator light on panel to show when primer is operating	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-4010	S	Foam System - Hypro FoamPro 1600 Customer specified the outlet(s) that are to be foam solution capable will be: Front trash line 30-44-1020 Rear left 2.5" discharge 30-43-1520 as advised by the fire department on 07.12.2019 Front monitor 30-43-1520 The foam system will inject 1.7 GPM of foam which will sustain the following flows: 850 GPM at 0.2% 340 GPM at 0.5% 170 GPM at 1%	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	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000		Tank capacity 1000 Imperial Gallons	1	MTL
40-12-4500		Foam cell - 20 Imperial gallon	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500		1" water level gauge connection	1	MTL
40-23-1050		4" Fireman's Friend connection	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400		Rear dump valve not requested E	1	MTL
40-31-9000		4" Storz rear fill, Fireman's Friend Located inside back compartment. 4" Storz fittings to be Red Head brand.	1	MTL
ELECTRICAL			1	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
50-11-0900		Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -REAR FLOODS -USB charging port (ref 20-99-05AA)	1	MTL
50-11-1400		Federal PA300 100 watt siren Located in cab console 20-31-7500	1	MTL
50-11-1620		> Siren speaker, 100 watt, in front bumper ENG. NOTE: AS124 speaker 1570860 Left side	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-6100	S	Whelen Emergency Light package	1	MTL
50-11-62AA	U	Whelen F4N7QLED 72" light bar - NFPA red and blue lights	1	
50-11-66AA	U	Whelen Rear LED Traffic Adviser model TANF 85 - surface mount SOPT #890 - truck specific	1	
50-11-8340	U	Rear beacons, Whelen L31HRF red DS, L31HBF blue PS SOPT #9 - Truck specific	1	
50-12-85AA	U	Front and front side LD flashers - Whelen M6 - two red, two blue Grille lights - blue drivers side, red passengers side Lights in bumper tails - red drivers side, blue passengers side SOPT # 952a - Truck specific	1	
50-12-88AA	U	Body side intersection lights (pr) - Whelen M6 - red DS, Blue PS SOPT # 953a - Truck specific	1	
50-12-8900	S	> Add'l body side inter lts (pr)-Whelen LED M6 - on chassis cab between doors ENG. NOTE: Required if distance between front and rear side intersection lights exceeds 25' The additional flasher is required due to the length of the unit. It will be installed on the chassis cab between the chassis doors as approved by the fire department on 07.12.2019.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-21-1505	U	Unity LED Rear floods (pr) Switched in cab and on light head These lights cannot be managed as they are required for ULC	1	
50-21-2540		FRC telescoping SPECTRA LED 12V flood (ea) One on each side of the pump house. These lights are switched on the light head and can be managed to shed. Wire hazard switch to the equipment rack not stowed warning light (50-21-5550) SPA530-Q15-SW-ON-SR-NS-A	2	MTL
50-21-29AA	U	Price Adjustment	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only The small compartment over the right side rear wheels will have a 4" LED grommet mounted compartment light	1	MTL
50-21-5500		Door Ajar warning light Located in overhead console over driver seat (Standard 1030436 light) Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5550		Equipment rack not stowed warning light Located in overhead console over driver seat (Standard 1030436 light) Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" The PTS, light tower and the Telelights will be wired to this warning light	1	MTL
50-21-8001		Step lights for body steps - 4" LED Switched when park brake is set.	1	MTL
50-21-8201	S	Step lights for chassis steps - LED Switched when park brake is set.	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
50-21-8900	U	LED mid body amber turn signal Mounted high in rear fenders slightly ahead of wheel cutout Truck-Lite #60080Y Metalfab p/n1031531 SOPT #204 - Truck specific	1	
50-22-0750	S	Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr) Both warning light are red in color.	1	MTL
50-31-6610		Ground lighting (4" LED) - 4 door chassis Switched when park brake is set.	1	MTL
50-31-6620		Ground lighting (4" LED) - side mount body Switched when park brake is set.	1	MTL
50-35-0500	S	Provisions for installation of customer supplied and installed mobile radio The Department will install radio after delivery. Metalfab to provide 12-Volt and ground wires to console for future installation. Metalfab to cut hole in console. Department provided dimensions for cutout - 2" x 7" Department provided Make and Model of radio - Motorola XPR 5550	1	MTL
50-35-0560		VHF antenna with base - commercial chassis Antenna lead to be run to console for future hook-up to radio by the Customer.	1	MTL
50-41-5260	U	12-Volt power points for winch - rear by receiver SOPT #283a	1	
50-41-5265	U	12 volt power points for winch - front and both sides by receivers SOPT #283a	3	

PART NO	S	DESCRIPTION	QTY	ID
50-99-05AA	U	Command Light - Knight Light - KL415D-W2-BL 12 Volt lights No Strobe light Umbilical remote with 15 ft control Light is located in dunnage area over pump house ahead of the tank fill boxes. Control for the light tower to be installed in the left side front compartment SOPT #1223 - Truck specific	1	
50-99-10AA	U	Hose bed cover lights - 20" LED lumabars x 6 Switched when park brake is set. There will be six (6) 20" Lumabar required to cover the entire hose bed due to the cover layout	1	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps	1	MTL
		ENG. NOTE: Maximum height of step is 24" from ground		
60-10-5430		> Diamondback 19" rear step	1	MTL
		ENG. NOTE: Maximum height of rear step is 24" from ground		
60-10-6000		Extruded rub rail	1	MTL
60-11-0300		> Front left side compartments full height E	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
60-11-0600		> Front right side compartments intermediate height	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
60-11-1000		> Rear left side compartments full height E	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
60-11-1300		> Rear right side compartments intermediate height	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
60-11-1900		> Low side compartment (up to 18") each	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body		
		Right side over wheels		
60-11-2000		> High side compartment (over 18") each	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body		
		Left side over rear wheels		
60-11-3200		> Full Height Rear compartment	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		

PART NO	S	DESCRIPTION	QTY	ID
60-11-4500		Flush mount aluminum door - single with "D" handle Drop down type door for compartment over right side rear wheels	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	1	MTL
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	3	MTL
60-11-5655	U	Amdor Pull straps - Flex-HD - for L2 roll up door	1	
60-11-5660	U	Amdor Pull straps - Flex-HD - for L1 and L3 roll up doors	2	
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) with LED lights Maximum height between steps is 18"	1	MTL
60-31-5600	S	Grab handles at front of body next to pump panels as required	1	MTL
60-31-6500	S	Compartment matting - interlocking tile	1	MTL
60-31-8006	U	BA bottle compt (ea) - fender well with SS door and cylinder restraining strap One left side rear fender rearward of wheels One right side rear fender rearward of wheels	2	
60-31-8210	S	> Sliding vertical tool board - with open / closed latches ENG. NOTE: Specify location	2	MTL
		Both tool boards are located in the left side back compartment - full height and centered evenly		
60-31-8400		Fixed vertical partition Located in left side front compartment to separate Pump Operators panel from rest of compartment	1	MTL
60-31-8650	U	Sliding tray (ea) - 400 pound capacity with open / closed latches Trays are located on the floor of the following compartments; Tray #1 - Front left side compartment Tray #2 - Front right side compartment Tray #3 - Rear right side compartment Tray #4 - Back compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	4	
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Shelf locations are as follows: Shelf #1 - Left side front compartment - shallow rearward of operator's panel Shelf #2 - Left side front compartment - shallow rearward of operator's panel Shelf #3 - Left side compartment over rear wheels - full depth of compartment Shelf #4 - Right side front compartment - shallow depth - at lower depth change Shelf #5 - Right side rear compartment - shallow depth - at lower depth change Shelf #6 - Back compartment over the rear fill - full depth of compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	6	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-32-3550	S	Two adjustable hose divider (each) and one fixed in center to support HB covers Hand hold required in end	1	MTL
60-32-7500		Hose bed - aluminum	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab (same as M10-15027, L3240EB Red)	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		Chassis wheels not painted	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2200		Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Similar to M10-15027 - The Department will send details - will send a PDF file of Logo for Metalfab to create and install on unit. Truck number will follow.	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front	1	MTL
60-33-3320	U	Reflective stripe - red and lime green chevron at rear - Diamond grade Chevron is applied to cover 100% of the rear facing vertical surface of the vehicle. Samples to be sent to the Customer for approval and sign off.	1	
60-33-4700		No crosslay preconnects on vehicle E	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - black Over hose bed only Door ajar switch required. Rear flaps with Velcro straps will be provided on the rear of the cover to tie around footman's loops. The grab handles will be installed on the rear face like Norfolk, ON 20410 as per the conversation with the customer 08.27.2019	1	MTL
60-40-5500		Suction hose tube (each) with door Under tee of tank to store 6" x 10' suction hoses 80-11-5000. Door ajar switches required	2	MTL
60-40-9000	S < >	Tube mount for ladders Fully enclosed under tank. A horizontal partition will be installed to separate the roof and extension ladder. Note that the ladder tube protrudes into back compartment. A Velcro restraining strap shall be installed to secure ladder from hitting the inside of the roll up door. For storage of the 24' extension ladder 80-14-0500, and 14' roof ladder 80-14-5500. The 10' attic ladder 80-14-8500 will be stored under the right side fender top tube 60-41-1500 as discussed with the customer on 08.26.2019. ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied	2	MTL
60-41-1015		Pike Pole tube in suction hose tube To store the 10' pike poles 80-13-2500	2	MTL
60-41-1500	S	Attic ladder tube with rear door The 10' attic ladder 80-14-8500 will be stored under the right side fender top tube 60-41-1500 as discussed with the customer on 08.26.2019.	1	MTL
60-41-6001	>	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 Right side - for the 1500 gallon portable tank 80-15-0500 To be wired so only operable when park brake is engaged.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.		
60-41-6010		ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - right side	1	MTL
60-41-6110	S	Painted plate on exterior of Zico PTS There will be painted aluminum plate on the exterior of the Zico PTS.	1	MTL
60-41-7090		No tread plate on body behind porta tank rack	1	MTL
60-99-05AA	U	Floor/oil dry dispenser in fender well compartment - (ea) One left side rear fender forward of wheels One right side rear fender forward of wheels SOPT #714	2	
60-99-06AA	U	Step over rear compartment The rear view camera and traffic bar will be lowered. There will be a step as wide as possible installed under the horizontal grab handle under the hose bed. This will allow an easier transition from the folding steps to the hose bed and easier deployment of the hose bed covers. As requested at the final inspection visit of 10.09.2019.	1	
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500		Side mount instrument panel 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
70-11-0600	U	Linkage controls in left front compartment HEAT Style design Linkage controls with the exception of the 2-1/2" suction inlets will be located in the front left side compartment.	1	
70-11-1500	S	Stainless steel instrument panels 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 The pump panel layout was reviewed and approved by the customer on 08.26.2019	1	MTL
70-11-3205	U	Vision Mark tags SOPT #180a - Truck specific	1	
70-11-4000		Stainless steel side panel hood right side	1	MTL
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-5100	S	Storage top of pump house for command light	1	MTL
70-11-5500		Right side tread plate pump access door No opening dimension less than 18" Slot required for Primer level viewing	1	MTL
70-11-5600		Left side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment	1	MTL
70-20-1500	S	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control.	8	MTL
70-20-2500		Primer control	1	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

PART NO	S	DESCRIPTION	QTY	ID
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-20-7600		Pump cooler control valve	1	MTL
70-21-1600		Electric Foam Level gauge not required	1	MTL
70-21-2100		> PTO Hourmeter	1	MTL
		ENG. NOTE: Specify location in shop note		
		Install in cab console 20-31-7500		
70-21-5500		Panel readout for Battery Conditioner Located in left side cab step area.	1	MTL
		ACCESSORIES		
80-11-5000	S	6" x 10' lightweight suction hose (ea) There will be two (2) lengths of 6" suction hoses x 10' long supplied and stored in the tubes 60-40-5500.	2	MTL
80-12-2500		6" barrel strainer Shipped loose, not mounted. Customer will mount.	1	MTL
80-13-0500		Rubber mallet Shipped loose, not mounted. Customer will mount.	1	MTL
80-13-1100	S	Hose wrenches (triple) with holder One mounted on the side wall of the side pump panel (see marking for exact location) and the other will be mounted on the side wall of the R1 compartment (see marking for exact location) - as discussed at the final inspection visit of 10.09.2019.	2	MTL
80-13-1500		Bar with bracket Mounted under back door opening above rear step unless otherwise specified.	1	MTL
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted	2	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket Mounted on side wall of back compartment as directed by the Customer at the final inspection of 10.09.2019	1	MTL
80-13-4500	S	Axe, flat head, fibreglass handle and bracket Mounted on side wall of back compartment as directed by the Customer at the final inspection of 10.09.2019	1	MTL
80-14-0500		24' 2 section extension ladder PEL 24 Tube mounted	1	MTL
80-14-5500		14' aluminum roof ladder PRL-14 Tube mounted	1	MTL
80-14-8500		10' aluminum folding attic ladder FL-10 Tube mounted	1	MTL
80-15-0500	S <	1500 l gallon portable tank - Husky 1500 Imperial gallon folding portable tank with aluminum frame, two drain sleeves, and grab handles included. Portable tank is stored on the PTS.	1	MTL
80-15-6500		6" external suction butterfly valve To be installed on left side 6" inlet and not to extend beyond body.	1	MTL
80-15-7000		Piston Intake Relief Valve 6" NHF x 4" Storz with cap To be installed on right side 6" inlet and not to extend beyond body.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-18-0600		SCBA brkt w/strap - ZICO ULLH - crew cab mount	4	MTL
80-19-0500		Large folding wheel chock - aluminum (ea) not mounted Shipped loose, not mounted. Customer will mount.	2	MTL
80-19-0600		> Horizontal bracket for folding wheel chock (ea) ENG. NOTE: Specify location, otherwise ship loose	2	MTL
		Shipped loose, not mounted. Customer will mount.		
80-99-05AA	U <	Elkhart Sidewinder Electric monitor on front bumper - joystick control in cab An Elkhart 8494-01 Electric Sidewinder Remote Monitor with joystick control is supplied with the unit. The monitor shall be installed on the front bumper and come complete with an electric discharge valve to be controlled from the joystick control. The joystick control shall be mounted in the chassis cab to the officer's side on the 20-31-7500 console. SOPT #887a - Truck specific Elkhart part numbers; 8494111 - Sidewinder electric monitor 3817301 - SM-10FE Nozzle - When ordering the AM-10FE nozzle, order as Automatic (not fixed-flow) 81181001 - 2" electric valve kit 81342001 - Quick connect base, 2.0 81172001 - Joystick in cab	1	
		Engineering to confirm the above numbers before ordering		
80-99-10AA	U	Warn XD9000i 12-volt winch There will be a Warn winch supplied shipped loose. Metalfab will supply two (2) L-shape brackets that the department will be able to mount to secure the winch in a location of their choice. The end will be wired to work with power points 50-41-5260 and 50-41-5265.	1	
80-99-20AA	U	2-1/2" x 1-1/2" reducing cap - chrome plated CSA x NPSH Part number 1501243 - Include 1-1/2" CP Cap (1500281) SOPT #791 - Truck specific	5	
80-99-40AA	U	4" Storz x 6" Male NH adapter - Kocheck S36S46 Part number 1501437 SOPT #541 - Truck specific Shipped loose, not mounted. Customer will mount.	1	