



Shop Order

Carrier Truck Center Inc.
645 Athlone Place
Woodstock, ON N4S 7V8

Rosemont District Fire Department
Adjala, ON

Exp. Date: 10/27/2017
Quote No: E-Rosemont-ON-0022
Job/Order No: 20123
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

04/03/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER F	1	MTL
00-00-0020	U	Exceptions to Specifications	1	
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1501	S	Extended Body Warranty - one year bumper to bumper	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	S	Quality System registered to ISO 9001:2015	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
10-11-1100	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 ***Keep as low and compact as possible - Fire Department has 12' doors.	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-2600	S	Preconstruction Meeting - at the Customer's location - by CCEV	1	MTL
10-11-3000	S	Manuals - three copies ***Three copies of chassis 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		
10-11-4300	S	Payment Terms - Chassis Net 10; Body 90% COD, 10% Net 30 days	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
		ENG. NOTE: Specify the type of hose and quantity of hose to be carried on the vehicle		
		The hose load expected on this vehicle is: 1000' of 4" Hi-Volume hose 800' of 2-1/2" double jacket hose 600' of 1-3/4" double jacket hose		

PART NO	S	DESCRIPTION	QTY	ID
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106 four door 4x4	1	MTL
		224" Wheelbase 111.2" Cab to axle		
		40,000 lb GVW 14,000 lb front axle 26,000 lb rear axle		
		Cummins L9 350 HP @ 2000 rpm 2200 governed rpm		
		1000 lb/ft torque @ 1400 rpm		
		Allison 3000 EVS automatic transmission, PTO opening on top right		
		275 Amp alternator		
		189 liter fuel tank, LH		
		Two tone paint - white over red - Paint codes as follows;		
		L0006 White		
		L5994 Harvester Red		
		Paint spray out to be sent to Customer for sign off		
		Paint line to match previous truck (M08-10008)		
		Air ride drivers and passengers seat, NFPA, Pass side for SCBA		
		Three rear seats for SCBA		
		Flashing headlights		
		Auxiliary air tank (for air primer)		
		691-014 option for overhead storage (above windshield) included		
		Polished aluminum rims with DURABRIGHT finish		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	S	Chassis Motor Vehicle Inspection - PMCVI 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
		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"		
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	1	MTL
		Continuous type		
20-31-1500	S	> Special compartments in chassis steps	2	MTL
		ENG. NOTE:		
		Specify any required dimensions, latch type in the shop note		
		Drivers side and passengers side - compartment to be as large as possible as space permits.		
		Add a partition for customer storage of customer helmet in the right side compartment - no venting in this portion - reference Muskoka		
20-31-1900	S	Chassis cab painted by chassis OEM	1	MTL
20-31-4500	S	Extend front bumper 15", gravel shield and compartments	1	MTL
		Bumper to be extended approximately 15" ahead of cab		
		Include a tread plate gravel shield and storage compartment in centre only. The left side compartment was removed as per 12.24.2018 e-mail where the size was going to be too small to be practical.. Provision for remote control monitor on right side, located to clear headlights. Note that monitor will have to be removed to open hood.		

PART NO	S	DESCRIPTION	QTY	ID
20-31-7000		SS nut covers, hub caps and high hats - single axle	1	MTL
20-31-7500	S	Console in cab Install switch panel and mini water level gauge, siren, signal master control, Joystick for front bumper turret, rear view camera monitor and PTO pump shift in console. Provision for Motorola XPR5550 DIN mount provided by Carrier Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish Design to be finalized and signed off at the Pre-Construction meeting.	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 ***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
20-41-1801		Battery boost terminals not required - batteries accessible	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 12,000 lb trailer load, 1000 lb tongue weight Capacity label to be installed adjacent to the receiver. Locate immediately under the rollup door at rear so angle of departure is not reduced. Note that a drop type hitch will be required to tow a trailer due to the height of the receiver (estimated 35")	1	MTL
20-41-5210	S	Front receiver 12,000 lb trailer load, 1000 lb tongue weight Capacity label to be installed adjacent to the receiver.	1	MTL
20-41-5295	U	Electric brake controller in cab Locate within easy reach of driver where space permits, wired to the rear 7-pole trailer wiring connection	1	
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 not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-5600	S	Flashing headlights w/ daytime running lights Ordered with the chassis	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection in chassis cab ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle in chassis cab, not fused For 20-51-6600 battery conditioner, mount on back wall of cab	1	MTL
20-51-6600	S	Kussmaul Pump Plus conditioner/ AC compressor Conditioner to be located under or behind rear seats in cab Compressor to located in compartment L1 in the right side wall. It will be in the fender well under the SCBA tubes and protected with a vented cover. 120 VAC compressor instead of 12 VDV compressor	1	MTL
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure Located on left side chassis step	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-51-8500	S	Engine compartment lights (pair) LED Switched when park brake is set	1	MTL
20-51-9001	S	Air horns and controls as supplied with Chassis Air horns on cab hood controlled by foot switch controls at drivers side and passengers side shall be provided with the Freightliner chassis	1	MTL
20-52-0010	U	Air horn control on pump panel SOPT #475 Label EVACUATION ALARM	1	
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4000	S	Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab. Monitor is located on the face of the dash	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-0010	U	Helmet holder plates only Install a brushed aluminum plate behind driver's seat for customer mounting of customer helmet holders	1	
20-99-0020	U	Install plate over back window back of cab Install brushed aluminum plate(s) over rear window between outboard right and middle crew seat and between outboard left and middle crew seat for customer installation of customer helmet holder.	1	
PUMP AND PLUMBING			1	MTL
30-11-3801	S	Hale RSD PTO driven midship pump - 1250 IGPM ***Driven by the transfer case PTO***	1	MTL
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500	S	Valves and controls - side mount panel - HEAT style	1	MTL
30-20-1002	S	Akron valves specified	1	MTL
30-20-1620	S	Piping stainless steel - non manifold pumps	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	S	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
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump 4" piping and check valve.	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020	S	Suction - 6" not gated each side SS non manifold pump 6" header Requested height from grade to centre of suction = 40"	1	MTL
30-31-6026	U	Suction - 6" gated rear intake - 5" piping, SS, Electric valve, bleeder	1	
30-31-7200	S	> Hale master intake suction valve - electric control for rear suction ENG. NOTE: Required for top mount panels Show location in Shop Note *** Suction to be gated is the 6" rear intake	1	MTL
30-32-7550		Suction - 2-1/2" left side SS, bleeder, non manifold pump	1	MTL
30-32-8050		Suction - 2-1/2" right side SS, bleeder, non manifold pump	1	MTL
30-40-2006	S	4" right discharge, plumbed 3", bleeder, slow close, non manifold pump	1	MTL
30-41-2040		2-1/2" RS discharge SS, bleeder, non manifold pump	1	MTL
30-41-2540		2-1/2" LS discharge SS, bleeder, non manifold pump	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-43-1520		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder ***Left side as shown on the proposal drawing	1	MTL
30-44-0720	S	1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" Capacity for 200' x 1-3/4" hose and nozzle in each lay. It shall be wide enough to carry a nozzle that is 4-3/4" wide as per October 10th e-mail. Also reference 30-99-0010 Locate swivels as close to the ends of the speedlays as possible (outboard) so that easily connected from the side of the truck - one each side.	2	MTL
30-44-1041	U	2-1/2" front discharge, SS piping for bumper mounted monitor Electric valve controlled by the front turret joystick control in cab.	1	
30-44-1042	U <	Elkhart Sidewinder electric remote monitor on front bumper Elkhart electric sidewinder monitor with 6000-200E nozzle with joystick in cab console and electric valve at pump	1	
30-44-3520	S	2-1/2" speedlay SS, plumbed 2-1/2", bleeder Capacity for 200' x 2-1/2" hose and nozzle. The width shall be wide enough to carry a nozzle that is 4-3/4" wide as per October 10th e-mail. Swivel to be located on Driver's side (LS) as close to the end of the speedlay as possible (outboard) so easily connected from side of truck	1	MTL
30-44-6520		Piping for monitor SS, plumbed 3", bleeder Monitor not included - outlet is capped.	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 Mount PTO on transfer cast PTO opening	1	MTL
30-51-1501		PTO driveshaft E	1	MTL
30-51-6640	S	Class One "TPG Plus" Governor/Throttle The governor will be in KPa.	1	MTL
30-51-77AA	U	Trident Air primer, 3 barrel, two location Location 1 - Main pump Location 2 - Rear suction pre-prime	1	
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
30-52-5510	S	Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to front 2-1/2" discharge for Elkhart Sidewinder Electric and both 1-1/2" 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
30-99-0010	U	Discharge Relief valve for crosslay (pump and roll protection) Each discharge shall have a fixed pressure relief valve plumbed in (after the valve) for protection when using the pump and roll function. ***The relief valve shall be adjusted to 125 psi unless otherwise specified***	2	
WATER AND FOAM TANKS			1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-4500		Tank capacity 800 Imperial Gallons	1	MTL
40-12-4500		Foam cell - 20 Imperial gallon	1	MTL
40-13-0100	S	> Through the tank tunnel - up to 1200 gallon tank	1	MTL
		ENG. NOTE: Requires Ladder tube storage 60-40-90 or any other tube mounts necessary		
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
40-23-1000		1" foam level gauge 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
40-31-6050		Rear fill not requested E	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	1	MTL
		As required by ULC and NFPA standards		
50-11-0900	S	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -FLASHING WARNING -LEFT SIDE SCENE -RIGHT SIDE SCENE -REAR SCENE -LS TELE LIGHT -RS TELELIGHT -FLASHING HEADLIGHTS (with chassis in dash) -WATER LEVEL GAUGE (MINI) -De-Activation of water level gauge	1	MTL
50-11-1400	S	Federal PA300 200 watt siren The siren will be a Federal PA300 200 watt unit.	1	MTL
50-11-1620		Siren speaker, 100 watt, in front bumper	2	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5810	S	> Federal Light Package ENG. NOTE: Adds 6.5" to overall height (measuring from roof of chassis)	1	MTL
50-11-5812	U	Federal LPX53DS-NFPA LED lightbar	1	
50-11-7600	S	Rear LED Signal Master warning lights SL85-A (31.8" Long) - Mounted under intermediate step on rear.	1	MTL
50-11-8001		> Rear beacons not required E ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present	1	MTL
50-12-5020	S	Front LED flashers (pr)-red Federal QL64XF Located in cab grille LS light to be red, RS light to be blue	1	MTL
50-12-5110	S	Rear LED flashers (pr)-red Federal QL64XF Located above tail light modules LS light to be blue, RS light to be red	1	MTL
50-12-5120	S	Rear LED flashers (pr)-red Federal QL97XF-R Located upper outer corners - above scene lights LS light to be red, RS light to be blue	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-12-5210	S	Front side inter lts (pr)-red LED Federal QL43XF-R Located in bumper tails	1	MTL
50-12-5310		Body side inter lts (pr)-red LED Federal QL64XF-R Located in rear fenders - rearward	1	MTL
50-12-5320		Body side warning lights (pr)-red LED Federal QL97XF-R Located in upper corners of body outboard of Scene lights. Two each side	2	MTL
50-21-2560	U	FRC telescoping EVOLUTION LED 12v flood (ea) with hazard switch Mounted on front of body as shown on the proposal drawing - they shall not extend past the top of the body when in the stored position. Switched in cab console Hazard option required Managed to shed ****Will required the shorter standoffs****	2	
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 Located in the upper console over the drivers seating position. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001	S	Step lights for body steps - LED Switched when park brake is applied	1	MTL
50-21-8201	S	Step lights for chassis steps - LED Switched when park brake is applied	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
50-31-6006	S	> Scene lights (pr) - Federal QL97 LED - right side ENG. NOTE: Specify location Located upper corners of body, inboard of red flashing lights Switched in cab and wired to shed	1	MTL
50-31-6007	U	Scene lights (pr) - Federal QL97 LED - left side Located upper corners of body, inboard of red flashing lights Switched in cab and wired to shed	1	
50-31-6008	U	Scene lights (pr) - Federal QL97 LED - rear facing Located upper corners under the red flashing lights Switched in cab and switched when vehicle is in reverse. These lights cannot be managed, as they are required for ULC.	1	
50-31-6011		Scene light boxes not required E	1	MTL
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis Switched when park brake is applied	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body Switched when park brake is applied	1	MTL
50-35-0500	S	Installation of customer supplied mobile radio Metalfab will install the following equipment supplied by Carrier: Cable kit, jack and speaker on the pump panel (routed to chassis console 20-31-7500).	1	MTL
50-35-0560		VHF antenna with base - commercial chassis Located center of roof behind lightbar unless otherwise specified.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Cable will be routed to the console 20-31-7500 area.		
50-99-10AA	U	Hose bed cover lights - LED strip lighting Switched when park brake is applied.	1	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body Minimum 1/2" rise in floors of sweep out compartments Intermediate step on rear as wide as possible	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 ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430	S	> Drop down step on rear as shown on the proposal drawing ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
		Wire this step to the door ajar warning light in cab to warn that step is not in stowed position when the park brake is released. To be approximately 68" wide so located immediately under LS folding step and equidistant on RS.		
60-10-6000		Extruded rub rail	1	MTL
60-11-0300		> 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
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
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-31-5500	S	Steps at rear of body (folding) with LED lights Maximum height between steps is 18"	1	MTL
60-31-5600		Steps and grab handles at front of body next to pump panel As required.	1	MTL
60-31-5800	S	Special step over rear compartment There will be a step above the rear compartment to access the hose bed.	1	MTL
60-31-6500	S	Compartment matting - plastic interlocking tile	1	MTL
60-31-8001	U	Double SCBA cylinder tubes in rear fenders (pr) Require door ajar switch Total of 4 double SCBA cylinder tubes - 2 in RS rear fender and 2 in LS rear fender	2	
60-31-8210	S	> Sliding vertical tool board - locking hardware ENG. NOTE: Specify location L3 compartment, 8" from rear sidewall	1	MTL
60-31-8400	S	Fixed vertical partition Install in L3 8" forward of sliding vertical tool board	1	MTL
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity with locking hardware ENG. NOTE: Specify location Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Located in R3 compartment at floor level	1	MTL
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Locate at floor level in R1 and B1	2	MTL
60-31-9000	S	> Tip down tray - 30 degree, 250 pound capacity ENG. NOTE: Specify location Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Located in L2, adjustable in height	1	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Two full depth in L1 Two full depth in L3 One full depth in B1 One shallow in R3 One full depth in R1 One shallow in R1 (leave clearance to allow removal of pump access panel)	8	MTL
60-32-3560	S	Three hose divider (each) - 1 fixed & 2 adjustable Hand hold required in end One fixed shall be located in the center of the hose bed to support the hose bed covers and there will be an adjustable divider on each side.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-32-7500		Hose bed - aluminum The hose load expected on this vehicle is: 1000' of 4" Hi-Volume hose 800' of 2-1/2" double jacket hose 600' of 1-3/4" double jacket hose	1	MTL
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		Chassis wheels not painted	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1600		Special paint compartment interior - gray zolatone E The compartment interiors, shelves, and trays are finished with a gray textured paint for chip resistance. The mounting tracks and hardware are left natural aluminum.	1	MTL
60-33-2300	S	Lettering - as required *** Vinyl letters, Fire Department to provide details on location and text. The lettering will be as follows: 12" door decal in front chassis door "Pumper 1" on rear chassis door Canadian flag between front and rear chassis door "Fire - Maple leaf - Rescue" on upper portion of body "911" with a tilted phone on rear side compartment doors "P1" on rear RS of body in white reflective with a black	1	MTL
60-33-23AA	U	Additional lettering There is additional "Z" stripe, P1 on front bumper and cursive motto on compartment doors. These were approved by the Fire Department 01.18.2019.	1	
60-33-3200	S	Reflective stripe - 1" - 4" - 1" white and red 50% of perimeter each side and rear, 25% of perimeter front. The painted surfaces will have white stripe and the aluminum rollup doors will have red stripe.	1	MTL
60-33-3320	U	Diamond Grade reflective stripe - Red & Yellow chevrons To cover minimum 80% of rear vertical surface with Red and Yellow Diamond Grade chevrons.	1	
60-33-4000	S	End tarps for speedlays - Red A red flap will be furnished on each end of the speedlays with Velcro straps to wrap around footman's loops.	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - Red Wired to the door ajar warning light in cab. Red rear flaps with Velcro straps will be provided on the rear of the cover to tie around footman's loops.	1	MTL
60-40-5500		Suction hose tube (each) with door Storage for the 6" x 10' long suction hoses 80-11-5000 Install a nylon strap with Velcro to tie around a footman's loop to secure suction hoses and preventing them from hitting the inside of the roll up door.	2	MTL
60-40-9000	S	> Tube mount for ladders, with rear door ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied For Duo Safety 24' two section, 14' roof, 10' attic ladders and two tubes (2" ID) for pike poles	1	MTL
60-41-1015	S	Pike Pole tubes in ladder storage tube For Duo Safety 24' two section, 14' roof, 10' attic ladders and two tubes (2" ID) for pike poles	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-99-0010	U	PAC TRAC back wall of compartments Install on back walls of upper L1 (behind pump panel), R2, and R3 (upper section) as shown on proposal drawing.	3	
INSTRUMENTATION				
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
70-11-1500		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	1	MTL
70-11-3200		Colour coded tags	1	MTL
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 at top of pump house with tread plate cover Lights and door ajar required. Drain holes and plastic interlocking tile to be installed in floor of compartment	1	MTL
70-11-5500	S	Right side pump access door in back wall of R1 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
70-20-0500	S	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	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.	10	MTL
70-20-3100	S	Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position. Included transmission Warning (visual and audible) The governor will be in KPa.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610	S	Remote PSTANK water level indicators each side, rear with driver Interlock with park brake so powered only when the park brake is set. Located on front corner of body each side behind the scene light.	1	MTL
70-20-3700	S	Additional remote water level gauge readout, Class One in cab Display to be on all the time, not interlocked with park brake. There will be a switch in the switch panel to de-activate the water level gauge (50-11-0900)	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-20-7600		Pump cooler control valve	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
70-21-2100		> PTO Hourmeter ENG. NOTE: Specify location in shop note Located on pump operators panel	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-21-5500	S	Panel readout for Battery Conditioner Located on left side chassis step over Auto Eject. The wiring to the display will have a protective weatherproof booth to protect it from corrosion.	1	MTL
70-99-0010	U	Coffin Compartment above pump house Coffin compartment located above pump house as large as possible - approximately 50" wide (to leave room for monitor piping) x 23" wide x minimum 12" deep	1	
70-99-10AA	U	Rubber seal around suction and discharge openings on pump panel	1	
		ACCESSORIES	1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea) Tube mounted	2	MTL
80-13-1000	S	Hose wrenches (double) with holder Mounted as directed by Customer, otherwise shipped loose for dealer installation. The make and model is Kocheck K01 wrenches and a K46-2 holder.	3	MTL
80-14-0505	U	Duo Safety 24' extension ladder	1	
80-14-5510	U	Duo Safety 14' roof ladder	1	
80-14-8510	U	Duo Safety 10' folding ladder	1	
80-19-0500	S	Large folding wheel chock - aluminum (ea) Mounted as directed by Customer, otherwise shipped loose for dealer installation.	2	MTL
80-99-0020	U	SCBA bracket ZICO EZ-Loc with centre pull front of seat Zico QM-EZL-F with center pull release kit	4	
80-99-30AA	U	Kocheck KS34 wrenches and holder There will be a set of Kocheck KS34 Storz wrenches (qty 4) and a holder installed on each side of the truck.	2	