



Shop Order

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

Alnwick/Haldimand Fire-Rescue Service
 Chief Mark Diminie
 9160 County Road 45
 Roseneath, ON K0K 2X0

Exp. Date: 11/18/2019
Quote No: Alnwick-Haldimand,ON-0027
Job/Order No: 21310
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

08/31/2021

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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
00-05-0020		Dealer - Carrier Centers Emergency Vehicles - Rod	1	MTL
00-10-1520	U	Metalfab Pumper - Ontario This will be a Pumper built for Ontario	1	
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	S	Waterous Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	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
10-11-1700	S	> ULC Testing - Pumper - Metric units of measure - Capacity of 5000 LPM ENG. NOTE: Note in the shop note if the Fire Department wishes to witness the test	1	MTL
		The unit will be tested in Metric at a capacity of 5000 LPM		
10-11-2100	S	Maximum length - 11 Metres (433")	1	MTL
10-11-2200	S	Maximum height - 3.6 Metres (141.75")	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 ENG. NOTE: Note in the shop note if more than 4 hours of training is required	1	MTL
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	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis - International HV613 6x4 four door GVWR 64,000 lb 18,000 lb front axle 46,000 lb rear axle 276" Wheel base; 165" Cab to axle International A26 430 hp @ 1700 rpm, 2100 governed rpm 1550 lb/ft torque @ 1000 rpm as approved by Rod Harris by e-mail on 02.18.2020 Allison 4000 EVS automatic transmission - 5 speed Leaf suspension as approved by Rod Harris by e-mail on 02.18.2020	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		60 MPH top speed 320AMP Alternator Jacob C-brakes will operate brake lights for NFPA 265 litre fuel tank, LH with Clean Back of Cab Polished Aluminum wheels ESC, VDR and seatbelt display Single color - NAV2562 as confirmed by Rod Harris by e-mail on 03.11.2020 Following changes approved by Rod Harris by e-mail on 02.18.2020 Add tilt/telescoping steering column Delco Remy Starter Change officer seat to fixed non SCBA Delete sunvisor Delete flashing headlights Defeat power door locks at PDI at Richwil		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1710	U	Chassis Motor Vehicle Inspection required - by CCEV Carrier will perform an MVI before the unit is delivered	1	
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
20-21-1520		Helmet warning label - do not wear helmet	4	MTL
20-21-1570	U	Tire Pressure Indicators - Tandem Axle	1	
20-21-1600		Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"	1	MTL
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3800		Front mudflaps	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 Single piece design	1	MTL
20-31-1510	S	> Special compartments in chassis steps with light, door ajar ENG. NOTE: Specify any required dimensions, latch type in the shop note There will be a compartment in the right side rear chassis step area as large as possible (the door opening may be smaller than the compartment size). The deck plate door will be hinged vertically, will have a d-handle latch and be tied to the door ajar system. The compartment will be illuminated, vented and have plastic interlocking tiles on the floor. As requested by Rod Harris by e-mail on 07.07.2020	1	MTL
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-7500	S	Console in cab Install siren (50-11-1492), On-Spot switch (20-41-5500) and PTO hour meter (70-21-2100) in console. There will be a Carrier supplied DIN mount for a Motorola XPR550 radio installed The customer will complete the radio installation after delivery as advised by Rod Harris by e-mail on 07.07.2020. The DIN mount arrived at Metalfab 09.02.2020 and given to Inventory Control. Storage area at top back of console and lower rear of console will be covered with webbing. Gray zolatone finish Customer approved console layout on 04.26.2021	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1140	U	Transmission programming - Allison WT - Waterous pump The transmission will be programmed to operate a Waterous Pump	1	
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
20-41-5500	S	ON SPOT Automatic traction chains On Spot chains installed for front tandem axle. The switch supplied from On-Spot will be installed on the console 20-31-7500	1	MTL
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3000	S	Air inlet with matching fitting - LS chassis step area The inlet will be installed in the LS chassis step area unless otherwise specified	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200		> 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. The outlet will be on the back wall minimum 12" from cab floor to meet ULC. Receptacle for battery conditioner to plug into (20-51-6500)	1	MTL
20-51-6500		Kussmaul Autocharge 1000 battery conditioner w/battery saver Conditioner located in cab behind rear seat.	1	MTL
20-51-7101	S	Electric System Management - Diamond Logic	1	MTL
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure Located in LS chassis step area unless otherwise specified	1	MTL
20-51-8510	S	Engine compartment light LED Switched when park brake is set.	1	MTL
20-51-9110		Air horns on hood, chassis OEM switch controlled E The controls will be left side lanyard and right side push button on the chassis dash as supplied by OEM	1	MTL
20-52-3000		> Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan Required for all chassis except Freightliner, Sterling, Spartan	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-0010	U	Helmet plate behind front seats There will be a vertical plate mounted behind the front chassis seats to allow the customer to mount their own helmet brackets - Similar to Magnetawan ON M19-20515. Helmet brackets not included. As requested by Rod Harris by e-mail on 07.07.2020	2	
PUMP AND PLUMBING				
30-11-3002	S	> Waterous CXVPA PTO driven pump - 5000 LPM / 1050 IGPM ENG. NOTE: Use LS PTO	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		The pump will be a Waterous CXVPA 1050 IGPM / 5000 LPM. As approved by Rod Harris by e-mail on 02.18.2020 for a PTO pump layout		
30-11-3800	U	Price Adjustment	1	
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002	S	Akron valves specified	1	MTL
		The valves will be Akron as requested by Rod Harris by e-mail on 07.07.2020		
30-20-1620		Piping stainless steel - non manifold Pumper	1	MTL
30-20-1700	S	38mm (1-1/2") thread specifications - NPSH	1	MTL
30-20-1800	S	65mm (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	1	MTL
		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.		
30-21-5520	S	Tank to Pump SS 75mm (3") w/ check valve non manifold pump - 100mm (4)" piping	1	MTL
30-22-0520	S	Tank Fill valve 50mm (2") SS	1	MTL
30-31-4020	S	Suction - 150mm (6") not gated each side SS non manifold pump 150mm (6") header	1	MTL
30-32-7550	S	Suction - 65mm (2-1/2") left side SS, bleeder, non manifold pump	1	MTL
30-41-2040	S	65mm (2-1/2") RS discharge SS, bleeder, non manifold pump	1	MTL
30-41-2540	S	65mm (2-1/2") LS discharge SS, bleeder, non manifold pump	1	MTL
30-43-1520	S	65mm (2-1/2") rear discharge SS, plumbed 2-1/2", bleeder *** Right Side	1	MTL
30-44-0520	S	38mm (1-1/2") crosslay (each) SS, 50mm (2") valve, bleeder	2	MTL
		The crosslays will be plumbed with 50mm (2") valves, have interlocking tiles on the bottom and rollers at each end to protect the body. As approved by Rod Harris by e-mail on 02.18.2020 for the standard side mount pump panel layout		
30-44-0720	U	Price Adjustment	2	
30-45-10AA	U	100mm (4") rear discharge, SS, 100mm (4") valve and piping, bleeder, Storz conne	1	
		Install 80-99-10AA two in one adapter on rear discharge The control on the pump panel will be a manual hand wheel to meet ULC		
30-51-0400	S	Pump shift - PTO Pump for Waterous CXVPA pump - Stationary only ***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. This unit will be set up to pump stationary only as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
30-51-0500	U	Price Adjustment	1	
30-51-1500	S	Power shift PTO - Automatic transmission	1	MTL
		Power shift PTO for Waterous CXVPA pump as approved by Rod Harris by e-mail on 02.18.2020		
30-51-1501	S	> PTO driveshaft ENG. NOTE: Quantity of 2 for pumps mounted on 4 door cabs due to length There will be a PTO shaft for the Waterous CXVPA pump as approved by Rod Harris by e-mail on 02.18.2020	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-51-6700	S	FRC Pump Boss Governor/Throttle engine display Settings are to be KPA as advised by Rod Harris by e-mail on 07.07.2020	1	MTL
30-51-7002		Suction side relief V/V, non manifold pump	1	MTL
30-51-7718	S	Trident Automatic Air Primer 3 barrel 1 location with gauge	1	MTL
30-51-7720	S	Additional air tank for air primer system An additional air tank is provided to improve air primer capacity	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-3001		Foam system not requested E	1	MTL
		WATER AND FOAM TANKS	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7500	S	Tank capacity 10,500 Litre (2310 Imp Gal)	1	MTL
40-13-0100	S	> Through the tank tunnel - up to 20 cu ft ENG. NOTE: Charge 60 per cubic foot of tunnel volume For ladder tube 60-40-9000 and 60-43-1500 as approved by Rod Hars by e-mail on 02.18.2020	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection The water level gauge connection will be 3/4"	1	MTL
40-23-1050		4" Fireman's Friend connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	MTL
40-30-1100		Water Fill Box middle left side	1	MTL
40-31-4500		10" rear Newton dump, painted steel	1	MTL
40-31-4600		Newton dump, side mount manual operation, painted steel Lock open device is required	1	MTL
40-31-5600		> Rotating dump chute for Newton dump painted steel ENG. NOTE: Requires top mount control on dump valve	1	MTL
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-9000	S	100 mm (4") Storz rear fill, Fireman's Friend, bleeder Located on right of the dump.	1	MTL
		ELECTRICAL	1	MTL
50-11-0450		Base electrical system - International Diamond Logic multiplex	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	S	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -REAR FLOODS -RIGHT SCENE LIGHT -LEFT SCENE LIGHT -REAR SCENE LIGHT - LS tele light (as requested by Rod Harris by e-mail on 08.13.2020) - 50-21-2540 - RS tele light (as requested by Rod Harris by e-mail on 08.13.2020) - 50-21-2540	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		The switches will be supplied from International and will be located in the chassis dash. The order and orientation will not match their current chassis where this unit is a new model.		
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		> Siren speaker, 100 watt, in front bumper	1	MTL
		ENG. NOTE: AS124 speaker 1570860		
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-6100	S	Whelen F4N0QLED LED light bar NFPA SOPT#891 Light bar P/N#1571022 Customer approved WeCad supplied with Shop Order - as advised by Rod Harris by e-mail on 07.07.2020.	1	MTL
50-11-6501	S	Rear Directional Light not requested	1	MTL
50-11-8600	S	Rear LED beacons-Whelen MCFLED2 (pr) red/blue The left side beacon will be blue and the right side will be red as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-12-8520	S	Front LED flashers (pr)-Whelen LED 600 - Red/Blue The flashers will be red on the left side and blue on the right side as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-12-8600	U	Price Adjustment	1	
50-12-8800	S	Body side inter lts (pr)-Whelen red LED 400 These will be installed towards the rear of the rear fender well area and will be red in color as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-12-88AA	U	Whelen LINZ6R flasher with chrome bezel (pr) There will be a Whelen LINZ6R with chrome flange flasher installed on each side of the chassis hood as requested by Rod Harris by e-mail on 07.07.2020	1	
50-12-8900	S	> Add'l body side inter lts (pr)-Whelen blue LED 400 ENG. NOTE: Required if distance between front and rear side intersection lights exceeds 25' These will be installed towards the front of the rear fender well area and will be blue in color as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-21-1505	U	Unity LED rear flood light Switched in cab and when transmission is placed in reverse. These lights cannot be managed to shed.	1	
50-21-2540	S	FRC telescoping SPECTRA LED 12V flood (ea) There will be a pair of 12-volt LED extendable FRC lights supplied and installed on the front of the pump house. They will be wired to the equipment not stored light in the chassis dash and switched from the chassis rocker switches (50-11-0900) . As requested by Rod Harris by e-mail on 08.13.2020. Model SPA530-Q15	2	MTL
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500	S	Door Ajar warning light Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Located in chassis dash with International warning lights	1	MTL
50-21-5550	U	Price Adjustment	2	
50-21-5560	U	Equipment rack not stowed warning light Warning label in cab to read: "Do not move Apparatus when Light is on" For PTS not stowed	1	

PART NO	S	DESCRIPTION	QTY	ID
		Located in chassis dash with International warning lights		
50-21-8001		Step lights for body steps - 4" LED Switched with park brake.	1	MTL
50-21-8201	S	Step lights for chassis steps - LED Switched with park brake.	1	MTL
50-21-83AA	U	LED lighting for rear platform/step as required Switched with park brake.	1	
50-21-8510	S	Rear clearance lights on rubber arms (pr) There will be a pair of Brittax rubber arm with marker light installed at the rear of the body as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8605	U	Cast Products license plate holder w/LED lighting	1	
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0750	S	Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr) The rear brake-turn-b/u lights will be upgraded to a CAST4V module with red flashers on the left side and blue flashers on the right side as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
50-31-6021	U	Whelen C9SL LED scene lights (pr) - one each side Located right side and left side upper center. Switched in cab and can be managed to shed.	1	
50-31-6022	U	Whelen C9SL LED scene lights (pr) - rear Switched in cab and interlocked with reverse of transmission as requested by Rod Harris by e-mail on 07.07.2020. These lights can be managed to shed since rear floods present.	1	
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis Switched with park brake.	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body Switched with park brake.	1	MTL
50-35-0500	U	Radio power cable provision There will be 12-volt power lead supplied in the console (20-31-7500) for a customer supplied and installed radio as requested by Rod Harris by e-mail on 07.07.2020 This can be terminals labelled for this purpose as advised by Rod Harris by e-mail on 09.04.2020	1	
50-35-0559	U	Install customer supplied antenna base Metafab will install a Carrier supplied antenna base and run the cable to the console (20-31-7500) as requested by Rod Harris by e-mail on 07.07.2020 Antenna base arrived at Metafab on 09.02.2020 and given to Inventory Control	1	
50-99-10AA	U	Hose bed cover lights - 40" LED Lumabars Switched with park brake.	1	
		BODY	1	MTL
60-10-1600		Tandem axle extruded aluminum body	1	MTL
60-10-30AA	U	Price Adjustment	1	
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 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

PART NO	S	DESCRIPTION	QTY	ID
60-10-6500	S	Bolt on extruded aluminum rub rail There will be bolt on rub rail with reflective red/white stripe (60-10-6599) as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-10-6599	U	Red/white reflective stripe in rub rail There will be red/white reflective stripe installed in the bolt on rub rail (60-10-6500) as requested by Rod Harris by e-mail on 07.07.2020	1	
60-11-0150	U	Price Adjustment	1	
60-11-0200	S	> Front left side compartments full height ENG. NOTE: Specify critical dimensions in shop note To match drawing FT-11261A as approved by Rod Harris by e-mail on 02.18.2020 Compartment will be full height as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-11-0300	U	Price Adjustment	1	
60-11-0550	U	Price Adjustment	1	
60-11-0700	S	> Front right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note Compartment will be intermediate height as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-11-0800	U	Price Adjustment	1	
60-11-0900	S	> Rear left side compartments full height ENG. NOTE: Specify critical dimensions in shop note To match drawing FT-11261-A as approved by Rod Harris by e-mail on 02.18.2020 Compartment will be full height as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-11-1400	S	> Rear right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note Compartment will be intermediate height as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-11-1900	S	> Low side compartment (up to 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 To be located on right side. To match drawing FT-11261-A as approved by Rod Harris by e-mail on 02.18.2020 Compartments changed side as requested by Rod Harris by e-mail on 07.07.2020	2	MTL
60-11-2000	S	> 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 To be located on left side. To match drawing FT-11261-A as approved by Rod Harris by e-mail on 02.18.2020 The compartments are to be 29" high to allow the storage of customer supplied ISI 4500 psi SCBA that measure 25" tall as requested by Rod Harris by e-mail on	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		07.07.2020		
60-11-3100		No rear compartment E	1	MTL
60-11-4500	S	Flush mount aluminum door - single with "D" handle To be located on right side and doors will be flip up. To match drawing FT-11261-A as approved by Rod Harris by e-mail on 02.18.2020	2	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
60-11-5500	U	Price Adjustment	3	
60-11-5510	S	Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point These will be for the R1 and R4 compartments as requested by Rod Harris by e-mail on 07.07.2020	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520	U	Price Adjustment	1	
60-11-5655	U	Amdor pull straps - Flex - HD - for L1, L2, L3, L4 compartments The compartments on the left side of the body will have Amdor straps due to the height. As requested by Rod Harris by e-mail on 07.07.2020	1	
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
60-31-5800	S	Intermediate platform on rear of body There will be a step mounted above the scene lights (50-31-6022) Step to be at a distance of Maximum 18" from hose bed. Shall include reflective yellow delienation stripe to meet NFPA	1	MTL
60-31-6500	S	Compartment matting - plastic interlocking tile	1	MTL
60-31-7900	U	Unistrut in L2 compartment for customer supplied SCBA bracket There will be Unistrut installed on the back wall of the L2 compartment for customer supplied and mounted SCBA brackets. As requested by Rod Harris by e-mail on 08.11.2020 SOPT 271	1	
60-31-8000	S	BA bottle compt (ea)-fender well There will be four (4) SCBA tubes per side with secondary restraint loops in the rear fender well as requested by Rod Harris by e-mail on 08.13.2020. Department to supply: Make: _____ Model: _____ Diameter: 7" Lenght: 24" Picture of the valve to ensure the loop will fit around the valve: F:/Data/Jacques/Current Projects/Alnwick Haldimand/Pictures/IMG_2335 As advised by Rod Harris by e-mail on 11.20.2020	8	MTL
60-31-88AA	U	Slidemaster 100% Extension AM3 tray There will be a 100% extension 600 lb capacity pull out tray supplied and installed in the R1 compartment to carry department supplied and installed	1	

PART NO	S	DESCRIPTION	QTY	ID
		extrication equipment. There will be enough room for a Hurst Power unit: Model: _____ Length: 22" Width: 17" Height: 22" As requested by Rod Harris by e-mail on 07.07.2020 and dimensions supplied by e-mail on 11.20.2020		
60-31-89AA	U	Hydraulic hose storage and fixed vertical partition One side of the 600 lb Slidemaster tray in the R1 compartment will have two (2) pockets to carry customer supplied hydraulic hoses and there will be a vertical plate beside that for the customer to mount their extrication tool with their own mounts. See sketch at F:\Data\Jacques\Current Projects\Alnwick Haldimand\ R1 tray drawing As requested by Rod Harris by e-mail on 07.07.2020	1	
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 Locations to be: 1. R1 - fixed at compartment depth change 2. R4 - fixed at compartment depth change 3. L4 - fixed at compartment depth change 4. L4 - adjustable and full depth 5. R4 - adjustable and full depth As requested by Rod Harris by e-mail on 07.07.2020	5	MTL
60-32-3550	S	One fixed and two adjustable hose dividers Hand hold required in end	1	MTL
60-32-7500	S	Hose bed - aluminum There will be a partition at the front of the hose bed to protect the mechanism for the power assisted hose bed cover 60-33-5005	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and color to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - Aluminum wheels	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2000	S	Lettering - no lettering provided	1	MTL
60-33-3000	S	Reflective stripe - 4" white w/ 1/8" black pinstripe 50% of perimeter each side and 25% of perimeter front Shall include a black pinstripe as requested by Rod Harris by e-mail on 07.07.2020 Striping layout approved by Rod Harris Apr 7-21	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface.	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-33-4600	S	Deck plate over crosslays with end tarps (red) The crosslays will have a deckplate cover with red end tarps and footman loops as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-33-5005	U	Power assisted main hose bed covers with red end tarps The hose bed cover will extend to the front partition in the hose bed (as close to the front of the body as possible). Switch at rear of the body Door ajar switch required The end tarps will be red and will include footman loops as requested by Rod	1	

PART NO	S	DESCRIPTION	QTY	ID
		Harris by e-mail on 07.07.2020		
60-40-5500	S	Suction hose tube (each) with door - fully enclosed Rear right and rear left side - for storage of the two 6"x10' suction hoses (80-11-5000). Door ajar switch required Tubes shall be completely enclosed The right side tube will be longer to allow the barrel strainer 80-12-2500 to remain connected and will have a label on the door to indicate this. As requested by Rod Harris by e-mail on 07.07.2020	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 The ladders 80-14-0505 and 80-14-5510 will be stored in a tube through the water tank. As approved by Rod Harris by e-mail on 02.18.2020 Door ajar switch required	1	MTL
60-41-1015	S	Pike Pole tube in suction hose tube Located inside suction hose tube Tube has 2" inner diameter by length of suction hose tube unless otherwise requested Tube length for customer supplied pike pole: Pike pole #1 length: 8' as advised by Rod Harris by e-mail on 07.07.2020 Pike pole #2 length: 10' as advised by Rod Harris by e-mail on 07.07.2020 Note - tubes are designed for straight pike poles only	2	MTL
60-41-1500	S	Attic ladder tube with rear door The ladder 80-14-8510 will be stored in a tube through the water tank. As approved by Rod Harris by e-mail on 02.18.2020	1	MTL
60-41-6001	S	> 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 Located on the right side for 11,000 litre Porta tank (80-15-1005) as requested by Rod Harris by e-mail on 07.07.2020 To be wired so only operable when park brake is engaged and low side compartment doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.	1	MTL
60-41-6010	S	ZICO PTS switched at rear above tail light - Right side Switch is located on the right side (same side as the rack) as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
60-41-9500	U	Price Adjustment	1	
60-41-9510	U	Price Adjustment	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	Price Adjustment	1	
70-11-1500		Stainless steel instrument panels No gauge or visual display can be higher than 84" above the operator's standing position	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Midpoint of any control cannot be higher than 72" above the operator's standing position		
70-11-3200	S	Colour coded tags - Metric units of measure	1	MTL
70-11-4002	U	Stainless Steel side panel hood right side There will be stainless steel side panel hood installed on the right side with LED Lumabar under to illuminate the pump panel	1	
70-11-4102	U	Stainless steel side panel hood left side There will be stainless steel side panel hood installed on the left side with LED Lumabar under to illuminate the pump panel	1	
70-11-5100	S	Storage at rear top of pump house There will be storage behind the crosslays with end doors only (70-11-5200) as requested by Rod Harris by e-mail on 07.07.2020. The top will be closed in so the storage will only be accessible from each end.	1	MTL
70-11-5200	U	End doors on pump house storage There will be a deck plate door at each end of the pump house storage (70-11-5100). The door will be deck plate, will be hinged vertically and will be wired to the door ajar system. As requested by Rod Harris by e-mail on 07.07.2020	1	
70-11-5500	S	Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7550	U	Heat pan-aluminum extreme weather type There will be an extreme aluminum heat pan supplied and installed under the pump house to limit the amount of heat loss.	1	
70-11-8000	S	Heater in pump compartment There will be a pump house heater supplied and installed as requested by Rod Harris by e-mail on 07.07.2020	1	MTL
70-11-8200	U	Rubber seal around suction and discharge openings on side pump panels	1	
70-20-1120	U	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	
70-20-2130	U	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.	6	
70-20-2500	S	Primer control	1	MTL
70-20-3200	S	FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3510	S	Electric water level gauge on pump panel and at rear, Class One There will be a water level gauge supplied and installed on the pump panel and rear of the body as requested by Rod Harris by e-mail on 07.07.2020	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
70-21-2100	S	> PTO Hourmeter ENG. NOTE: Specify location in shop note There will be a PTO hourmeter installed on the chassis console 20-31-7500 for the PTO pump. As approved by Rod Harris by e-mail on 02.18.2020	1	MTL
70-21-5500	S	Panel readout for Battery Conditioner Located in LS step area unless otherwise specified	1	MTL
71-21-3101	S	> Transmission warning light not required E ENG. NOTE:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Requires the FRC InControl, Pump Boss or TPG Plus		
		Present on the FRC InControl, Pump Boss and TPG Plus		
		ACCESSORIES		
80-11-5000		6" x 10' lightweight suction hose (ea)	1	MTL
		Tube mounted	2	MTL
80-12-2500	S	6" barrel strainer	1	MTL
		To be mounted on a suction hose (80-11-5000) and stored in the right side suction hose tube (60-40-5500) as requested by Rod Harris by e-mail on 07.07.2020		
80-13-0500		Rubber mallet	1	MTL
		Not mounted. Shipped loose		
80-14-0505	U	Duo Safety 24' extension ladder	1	
		Stored in tube 60-40-9000 as approved by Rod Harris by e-mail on 02.18.2020		
80-14-5510	U	Duo Safety 14' roof ladder	1	
		Stored in tube 60-40-9000 as approved by Rod Harris by e-mail on 02.18.2020		
80-14-8510	U	Duo Safety 10' folding attic ladder	1	
		Stored in tube 60-41-1500 as approved by Rod Harris by e-mail on 02.18.2020		
80-14-9000	U	Price Adjustment	1	
80-15-10AA	U	11,000 litre (2400 Imp Gal) portable tank-Husky	1	
		Stored on PTS (60-41-6001), yellow liner		
		The label from Husky to show both Litres and Imperial Gallons measurement		
80-18-0600	U	Price Adjustment	4	
80-18-0600	S	SCBA brkt w/strap - ZICO ULLH - crew cab mount	3	MTL
		There will be an SCBA bracket installed in each rear SCBA seat (front officer seat is non-SCBA). As approved by Rod Harris by e-mail on 02.18.2020		
80-99-10AA	U	4" Storz x 2-1/2" CSA "2-in-1" fitting for the rear discharge	1	
		SOPT#498		
		Kochek Two in one adapter with cap for two in one		
		Fitting to be 4" NPT to 4" Storz to 2.5" male CSA with 4" Storz cap		
		https://www.kochek.com/shop/2-in-1-universal-storz-adapter/		