



Shop Order

Carrier Truck Centers
 O/A Carrier Centers
 645 Athlone Place
 Woodstock, ON N4S 7V8

Township of Madawaska Valley, ON

Exp. Date: 12/31/2019
Quote No: Madawaska Valley-0219
Job/Order No: 21383
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

11/19/2021

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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
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1501	S	Extended Body Warranty - 20 year	1	MTL
		KROWN rust proofing has to be maintained by the Customer (responsibility of the Customer) for this warranty to remain in effect		
00-20-1551	S	Extended Paint and Corrosion Warranty - 10 Year	1	MTL
		This warranty applies only to the exterior body paint. Paint on the vehicles body interior is warranted only under the manufacturers standard body warranty.		
		All warranty is FOB Metalfab's factory at 847 Central Street, Centreville, NB or the nearest Metalfab approved warranty centre.		
		KROWN rust proofing has to be maintained by the Customer (responsibility of the Customer) for this warranty to remain in effect		
00-20-1700		Hale Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S	Plant Inspection Visit for final inspection - Costs covered by CCEV	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
10-11-0105		Vehicle Data Recorder not requested E	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance	1	MTL
10-11-1500		> ULC Testing - Pumper - Imperial units of measure	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
		Pump will be tested at 1050 IGPM.		
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	1	MTL
		***Two copies of manuals are required.		
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	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		CHASSIS INFORMATION		
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106 two door	1	MTL
		41,600 lb GVWR 14,600 lb Front Axle 27,000 lb Rear Axle	1	MTL
		Wheelbase, cab to axle - TBD		
		Cummins L9 350HP @ 2000 RPM, 2200 Governed RPM, 1000 lb-ft @ 1400 RPM		
		Allison 3000 Automatic transmission w/PTO provision - 5 speed		
		Cummins exhaust brake - activates stop lamps		
		189 litre fuel tank - LH		
		68 MPH top speed		
		Polished aluminum wheels		
		ESC, VDR and seat-belt display		
		Hood mounted air horns w/shield - Lanyard at driver position only with electric/air switch to allow the horn button to activate the air horn. As approved by Rod Harris by e-mail on 04.01.2020		
		LED marker lights		
		Power windows		
		Air ride drivers seat, non suspension Officers seat		
		Paint, one solid - L2225EB - paint sample sent to customer for approval on 04.01.2020		
		Changes additions to chassis specs upon ordering		
		Add engine compartment light - code 469-014		
		Change maximum top road speed to 68 MPH (from 70 MPH)Upgrade 97 db back up alarm to 107 db if possible (if not, Metalfab will upgrade back up alarm - ref 20-51-2700)		
		Rear tires changed to Michelin XDS as approved by Rod Harris by e-mail on 04.01.2020		
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
20-21-1000		Maximum riders sign - 2 persons	1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
20-21-1520		Helmet warning label - do not wear helmet	1	MTL
20-21-1560		LED Tire Pressure Indicators - Single Axle	1	MTL
		Ship the 180 degree extension loose for dealer installation.		
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
20-21-3800		Front mudflaps	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-21-4510	U	Transportation Safety Kit - with chassis	1	
		Basic First Aid Kit		
		Safety Triangle		
		Fire Extinguisher		
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0500		Alum tread fuel tank trim, Conv - 2 door	1	MTL
		Vertical trim only, OEM cab steps remain		
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-4700		> Extend front bumper, gravshld with preconnected hosewell E	1	MTL
		ENG. NOTE:		
		Note location of preconnect elbow _____		
		Note special capacity requirements _____		

PART NO	S	DESCRIPTION	QTY	ID
		<p>***Bumper to be extended approximately 20" ahead of cab. Hose well to have capacity for 150' of 1-3/4" hose with nozzle. CP Swivel will be located on top, left of hose well cover. Cover will have a notch so hose can remain pre-connected. Cover will be equipped with a gas strut and a lift and turn latch.</p>		
20-31-7500	S	<p>Console in cab Install switch panel (50-11-0900), siren (50-11-1400), Go light control (50-21-3120), and pump shift (30-51-0500) in console. There will be a DIN mount supplied by Carrier installed. It arrived on 09.02.2020 and was given to Inventory Control. The console shall be an angled design making it easier to access the emergency controls (siren, switches, pump shift, etc.) . The top of the console shall be easily removable for maintenance and service. The console shall have a 14"w x 15"l x 12"d storage bin with a hinged lid. Console shall be textured gray painted finish (Zolatone). One (1) fixed divider shall be installed in the console bin. Customer confirmed that the divider should be lateral (from left to right). As advised by Rod Harris by e-mail on 10.07.2020 Customer to approve layout before build - Approval received from Rod Harris by e-mail on 03.19.2021</p>	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		<p>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.</p>	1	MTL
20-41-1900		Battery boost terminals with chassis E	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5010	S	<p>Rear Tow Hooks - through rear of body Two (2) heavy duty steel painted tow hook assemblies shall be bolted directly to the rear frame rails. The tow hooks (small Spartan style) shall be easily accessible from the rear of the apparatus body through a removable panel. The panel shall have lift and turn latches. The door shall be manufactured from 3/16" 5052 - H32 aluminum and Zolatoned to match compartment interior.</p>	1	MTL
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2700	S	<p>Back up alarm - 107 db minimum If not ordered with the Freightliner chassis, a 107 db back up alarm will be installed.</p>	1	MTL
20-51-3100	S	Air inlet not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	U	Price Adjustment	1	
20-51-6200	S	<p>> 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 One (1) In cab for battery conditioner to plug into located on back wall behind console Minimum 12" from floor level to meet ULC. One (1) in body compartment: Department to specify location: B1 compartment, 20" off the floor, back wall towards the left side of the compartment. As advised by Rod Harris by e-mail on 10.26.2020 As requested by Rod Harris by e-mail on 10.07.2020</p>	2	MTL
20-51-6501	S	<p>Kussmaul Pump Plus 1200 - Model #52-21-1100 Battery conditioner mounted behind console/driver's seat. 12 Volt compressor located in the pump house, easily accessible through right side pump access door and equipped with a splash guard.</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Compressor to be orientated so the auto drain is pointed downward for proper draining.		
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 driver's step area. Receptacle to be minimum 24" from ground.	1	MTL
20-51-8505		Engine compartment light included with chassis E	1	MTL
20-51-9001	S	Air horns on hood as supplied with chassis The air horns/chassis horns will be operated from horn button on steering wheel through the Freightliner air/electric toggle switch. There will be a lanyard at the driver position only and Metalfab wwill install a push button control for the officer (20-52-0010). As approved by Rod Harris by e-mail on 04.01.2020	1	MTL
20-52-0010	U	Air horn control at officer position There will be a push button air horn control supplied and installed on the chassis dash at the officer position. As approved by Rod Harris by e-mail on 03.26.2020	1	
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1840	U	Bumper guides, chrome and lighted	1	
		PUMP AND PLUMBING	1	MTL
30-11-3800	S	Hale DSD midship pump - 1050 IGPM Removed mention of 5000 LPM as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
30-15-0302		Plumbing - non manifold pump TM SS E	1	MTL
30-20-1000		Valves and controls - top mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1620		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
30-21-5550		Tank to Pump TM SS 3" w/ check valve non manifold pump	1	MTL
30-22-0530		Tank Fill valve 2" TM SS	1	MTL
30-31-4020		Suction - 6" not gated each side SS non manifold pump 6" header	1	MTL
30-32-7550	S	Suction - 2-1/2" left side SS, bleeder, non manifold pump There will be one (1) 2.5" inlet on the left side of the pump panel and the control will be on the left side panel as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
30-32-8050	U	Price Adjustment	2	
30-32-8050	S	Suction - 2-1/2" right side SS, bleeder, non manifold pump There will be one (1) 2.5" inlet on the right side of the pump panel and the control will be on the right side panel as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
30-32-8550	U	Price Adjustment	2	
30-40-2006	S	4" right discharge TM SS, bleeder, plumbed 3", non manifold pump	1	MTL
30-41-2030	S	2-1/2" RS discharge TM SS, bleeder, Hale non manifold pump	1	MTL
30-41-2530	S	2-1/2" LS discharge TM SS, bleeder, Hale non manifold pump	2	MTL
30-44-0530		1-1/2" crosslay (each) TM SS, 2" valve, bleeder Each hose lay shall have capacity for 200' x 1-3/4" hose and nozzle.	2	MTL
30-44-1030		> 1-1/2" front trash line TM SS, plumbed 2", hosewell ENG. NOTE: Requires extended front bumper, gravelshield Hose well to have capacity for 150' of 1-3/4" hose with nozzle.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		CP Swivel will be located on top, left of hose well cover.		
30-44-6530		Piping for monitor TM SS, plumbed 3", bleeder Centered front to back and left to right behind transverse panel. Adapter 80-99-25AA will be installed.	1	MTL
30-51-0500		Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab. ***Includes "Throttle Ready" indicator light on Pump operating panel	1	MTL
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6640	S	Class One "TPG Plus" Governor/Throttle - PSI The governor will be setup for PSI as advised by Rod Harris by e-mail on 10.07.2020	1	MTL
30-51-7002		Suction side relief V/V, non manifold pump	1	MTL
30-51-7700		Primer Hale oil less ESP with oil tank Hale 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 Plumbed to water tank fill tower	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		Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to the 1-1/2" Crosslays and the 1-1/2" front trash line.	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
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
40-12-5000	S	Foam cell - 25 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
40-23-1000		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 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 WHITE -REAR BEACONS -FLASHING WARNING -REAR FLOODS	1	MTL
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		> Siren speaker,100 watt, in front bumper ENG. NOTE: AS124 speaker 1570860	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-61AA	U	NFPA 56" RRBB Justice 01-0686119-03 light bar See revised WECAD drawing in F:/Data/Jacques/Current Projects/Madawaska Valley Customer approved following layout - from back left corner to right back corner: Red,_,Red,Red,White,Red,_,_,Blue,White,Blue,Blue,_,Blue As advised by Rod Harris by e-mail on 11.03.2020	1	
50-11-6600	S	Rear LED Traffic Advisor warning lights - surface mount There will be a rear traffic advisor installed on the body as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
50-11-8670	U	Whelen L31H*F LED rear beacons - LS red, RS blue SOPT #9 - truck specific	1	
50-11-86BB	U	Cast aluminum stanchions for rear beacons (pr) SOPT # 1091 P/N 1560369	1	
50-12-8000	S	Additional body side intersection light not requested Distance between front and rear side intersection light does not exceed 25' therefore Rod Harris requested to have it removed. As requested by e-mail on 10.07.2020	1	MTL
50-12-8522	U	Price Adjustment	1	
50-12-8523	U	Front LED flashers (pr)-Whelen LED 600 w/ Integral Flasher - Red/Blue There will be two (2) pair of Whelen LED flashers supplied and installed in the front grill. The top row will red on LS and blue on RS. The lower pair will be red on the LS and blue on the RS. As requested by Rod Harris by e-mail on 10.26.2020	2	
50-12-86AA	U	Rear LED flashers (pr)-Whelen LED 600 with integral flasher - Red LS, Blue RS	1	
50-12-8710	S	Front side inter lts (pr) - Whelen red LED 600 with integral flasher	1	MTL
50-12-8810	S	Body side inter lts (pr)-Whelen red LED 600 with integral flasher Location to be rear fender wells - rearward most.	1	MTL
50-21-1505	U	Unity LED rear flood lights (pr) Switched in cab and when transmission is placed in reverse. These lights cannot be managed to shed.	1	
50-21-3120	U	Roof mounted Go-Light - control in cab Above the light bar as shown on the drawing as approved by Rod Harris by e-mail on 10.07.2020 Control to be located on console 20-31-7500.	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only Low side compartment on RS will have a 4" grommet LED compartment light at one end of the compartment (forward end).	1	MTL
50-21-5500		Door Ajar warning light Located in overhead console over driver's seat. 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's seat. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001		Step lights for body steps - 4" LED Switched with park brake.	1	MTL
50-21-8110		Step lights for walkway - 4" LED Switched with park brake.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-21-8200	S	Step lights for chassis steps - LED Switched with park brake.	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8605	U	Cast Products license plate holder c/w LED light	1	
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
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis Switched with park brake.	1	MTL
50-31-6580		Ground lighting (LED Lumabar) - top mount body Switched with park brake.	1	MTL
50-31-65AA	U	Hose bed lighting - LED on front partition Switched with park brake.	1	
50-31-7000		> Work light for crosslay hose beds ENG. NOTE: Required if there is no permanent cover over the crosslays	1	MTL
50-35-0510	U	Provisions (wiring) for customer supplied and installed mobile radio There shall be a dedicated 12V power supply line and ground wires running into the console area through the master disconnect unless otherwise specified.	1	
50-35-0559	S	Mobile radio antenna provided by customer There will be a Carrier supplied antenna base installed behind the light bar centered from left to right and front to back with the cable routed to the console 20-31-7500. It arrived at Metalfab on 09.02.2020 and was given to inventory control.	1	MTL
50-99-05AA	U	Hose bed access ladder step lighting - Whelen PELCC The hose bed access ladder step areas shall be illuminated by Whelen PELCC LED lights - 5 required Switched with park brake. SOPT#1214 - truck specific	1	
50-99-10AA	U	FRC push up style 12 volt telescopic light - FCA510-V20-ON-SW (ea) These lights can be managed to shed. Lights will be switched on light head Location of floodlight shall be on the back of the chassis cab as shown on the drawing Customer confirmed that "push up" style is preferred and that part of the telescopic assembly will have non-slip surface that will be able to be used as a grab handle. As advised by Rod Harris by e-mail on 10.07.2020	2	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-15AA	U	1" drop on lower edge of compartment floor - sweep out type	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4500		Aluminum tread plate fender surround - single axle	1	MTL
60-10-46AA	U	Removable deckplate rear fenders and removable fender liners	1	
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6500		Bolt on extruded aluminum rub rail E No reflective stripe requested.	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Depth of compartment is approximately 25" in the lower section and approximately 12" deep in the upper section.		
60-11-0600		> <i>Front right side compartments intermediate height</i> ENG. NOTE: Specify critical dimensions in shop note	1	MTL
		Depth of compartment is approximately 25" in the lower section and approximately 12" deep in the upper section.		
60-11-1000		> <i>Rear left side compartments full height E</i> ENG. NOTE: Specify critical dimensions in shop note	1	MTL
		Depth of compartment is approximately 25" in the lower section and approximately 12" deep in the upper section.		
60-11-1300		> <i>Rear right side compartments intermediate height</i> ENG. NOTE: Specify critical dimensions in shop note	1	MTL
		Depth of compartment is approximately 25" in the lower section and approximately 12" deep in the upper section.		
60-11-1900	S	> <i>Low side compartment (up to 18") each - RS</i> ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	1	MTL
		Depth of compartment is approximately 12" deep and will be equipped with a drop down style door		
60-11-2000	S	> <i>High side compartment (over 18") each - LS</i> ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	1	MTL
		Depth of compartment is approximately 12" deep.		
60-11-3200		> Full Height Rear compartment ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-4500	S	<i>Flush mount aluminum door - single with "D" handle - drop down for R2 Right low side compartment</i>	1	MTL
60-11-5500	S	<i>Rollup door - standard height</i> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point The rollup door for left side high side will change to unpainted as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
60-11-5510	S	<i>Rollup door - intermediate height</i> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point The rollup doors on R1 and R3 will change to unpainted as requested by Rod Harris by e-mail on 10.07.2020	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-11-5520	S	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point The rollup doors on L1, L3 and B1 will change to unpainted as requested by Rod Harris by e-mail on 10.07.2020	3	MTL
60-11-5600	U	Price Adjustment	1	
60-11-5610	U	Price Adjustment	2	
60-11-5620	U	Price Adjustment	3	
60-11-5650	U	Amdor pull strap - Flex-HD - for the L2 compartment door Order with the roll up door	1	
60-11-5660	U	Amdor pull straps - Flex-HD - L1, L3 and B1 Order with the roll up doors	3	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction Switch required for equipment not stowed warning light in cab (50-21-5550)	1	MTL
60-31-5600		Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"	1	MTL
60-31-6500	S	Compartment matting - plastic interlocking tile	1	MTL
60-31-8006	U	BA bottle compt (ea)-fender well Retaining loops included Customer to specify make and model of cylinder to be stored Make - MSA Model - 2216 Diameter of cylinder - 7" Overall length of cylinder - 24" Photo of valve/cap (to ensure retaining loop will fit) See pics F:/Data/Jacques/Current Project/Madawaska Valley/Pictures As advised by Rod Harris by e-mail on 10.07.2020	4	
60-31-8650	S <	Sliding tray (ea) - 400 pound capacity with lock-in, lock-out sliding hardware SOPT #120 Located at floor level in following compartments: Tray 1 - Front right compartment (R1) Tray 2 - Front left compartment (L1) Locations confirmed by Rod Harris by e-mail on 10.07.2020 and updated on 06.08.2021. White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	2	MTL
60-31-8800	U	Price Adjustment	1	
60-31-88AA	U	Sliding tray (ea) - 600 pound capacity, 100% extension There will be SlideMaster 600lb, 100% extension trays installed in the following locations: Tray #1 - B1 compartment Tray #2 - R3 compartment As requested by Rod Harris by e-mail on 10.07.2020	2	
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 Customer to specify mounting location and depth (shallow or full depth) of the shelves Shelf #1 - Front left side compartment (L1) - Shallow / fixed at compartment depth	5	MTL

PART NO	S	DESCRIPTION	QTY	ID
		change Shelf #2 - Rear left side compartment (L3) - Shallow / fixed at compartment depth change Shelf #3 - Front right side compartment (R1) - Shallow / fixed at compartment depth change Shelf #4 - Rear right side compartment (R3) - Shallow / fixed at compartment depth change Shelf #5 - Back compartment (B1) - full depth As requested by Rod Harris by e-mail on 10.07.2020		
60-31-99AA	U	Pac Board in upper portion of L1 - full width Pac Board - p/n 1562631 - 2 pieces required The PAC bracket will cover the full width of the L1 compartment and will cover the entire upper portion of the compartment (from the depth change to the top of the compartment). As requested by Rod Harris by e-mail on 10.07.2020	1	
60-32-3550	S	Two adjustable hose divider (each) Hand hold required in end There will be two (2) adjustable dividers as requested by Rod Harris by e-mail on 10.07.2020	1	MTL
60-32-7500		Hose bed - aluminum	1	MTL
60-33-0100	S	Paint exterior - Imron Elite and clearcoat *** Paint red to match the cab *****Clearcoat required*****	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	1	MTL
60-33-2000	S	Lettering - no lettering provided There will be no lettering provided as requested by Rod Harris by e-mail on 10.26.2020	1	MTL
60-33-3200	S	Reflective stripe - 1" yellow, 1" space, 4" yellow 50% of perimeter each side and 25% of perimeter front The stripe will be 1" yellow, 1" space and 4" yellow in an elongated "hockey stick" shape on the the L1/R1 compartment to transition from low to high. As requested by Rod Harris by e-mail on 06.07.2021 and approved based on the sample drawing. Approval sent by Rod Harris by e-mail on 08.06.2021	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface. 3M printed Scotchlite material	1	MTL
60-33-3500	S	Tarp over hose bed - red One (1) vinyl hose bed tarp shall be provided with Velcro on top rails and quarter turn fasteners. The hose bed tarp shall have an end flap with Velcro fasteners provided to cover the rear of the hose bed. The tarp shall be red in color.	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-33-4000	S	Tarp over crosslays - red with shock cord fasteners A heavy duty vinyl tarp cover shall be provided over the cross lay compartments. The vinyl tarp shall be red in color.	1	MTL
60-40-5500	S	Suction hose tube (each) with door - one on each side To house the two 10' suction hoses (80-11-5000) Suction hose tubes will be fully enclosed and located in the standard locations - one each side under tee of tank. The left side suction tube will be long enough to leave the barrel strainer 80-12-2500 attached to the suction hose. Door ajar switch required.	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		longer and larger than normal - see Rods email of Dec 12.2019		
60-41-1015		Pike Pole tube in suction hose tube Pike poles not included. Tubes are length of suction tubes and 2" inside diameter.	2	MTL
60-41-1500		Attic ladder tube with rear door Located under the right side fender top to house the 10' folding attic ladder (80-14-8510)	1	MTL
60-41-7500		> Drop down ladder rack - 2 section, roof - manual operation ENG. NOTE: Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model Located on the right side, to hold 24' extension ladder (80-14-0505) and 14' roof ladder (80-14-5510).	1	MTL
60-41-7520		Assist handles for manual drop down ladder rack	1	MTL
60-91-0500	S	> Compartment SCBA Storage rack - L3 ENG. NOTE: Specify location and number of cylinders to be stored 8 bottle tubes in bottom of rear left compartment - over two (2) rows and includes an aluminum plate above the tubes to create a floor.. As requested by Rod Harris by e-mail on 08.06.2021	1	MTL
		INSTRUMENTATION		
70-11-0000		Warning Label on Pump Operator's Panel	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
70-11-2000		Top 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 ***Customer to approve pump panel layout prior to production****	1	MTL
70-11-2500	S	Transverse walkway The walkway will have 25" of space between the cab and pumphouse as requested by Rod Harris by e-mail on 04.01.2020	1	MTL
70-11-2600		Tread plate overlay on back of chassis cab	1	MTL
70-11-3000	S	Mansaver bars Engineering to advise purchasing length to order	1	MTL
70-11-3200	S	Colour coded tags - Imperial units	1	MTL
70-11-3501	S	Compartments in ends of walkway not requested	1	MTL
70-11-4506	U	Diamondback grip type panel hood step right side Requires 1" yellow reflective tape around perimeter to meet NFPA.	1	
70-11-4606	U	Diamondback grip type panel hood step left side Requires 1" yellow reflective tape around perimeter to meet NFPA.	1	
70-11-5630	U	Side pump access door - horizontally hinged, lift and turn latches, G strt Doors are fabricated out of polished aluminum treadplate material	2	
70-11-5700		Transverse tread plate pump access door No opening dimension less than 18"	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-11-7500		<i>Heat pan-aluminum</i>	1	MTL
70-11-8000	S	<i>Heater in pump compartment</i> The heaters shall be mounted low in the pump house so that the heat will be distributed evenly in the pump house and will keep the drain lines open. ***A two speed switch shall be mounted on the pump panel for operation of the heaters.	2	MTL
70-11-8200	U	<i>Rubber seal around suction and discharge openings on side pump panels</i> All discharges and auxiliary inlets shall be sealed with rubber grommets for maximum heat retention.	1	
70-20-1120	U	<i>4-1/2" compound gauge - dual face 0-400</i> To be within 8" of each other - edge to edge	2	
70-20-2170	U	<i>2-1/2" pressure gauge - dual face 0-400</i> Gauge to be no more than 6" from edge of the gauge to the center of the control. Color coded rings will be installed on pressure gauges to match tag colors	8	
70-20-2500		<i>Primer control</i>	1	MTL
70-20-3100		<i>Class One Governor Control</i> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3670	U	<i>FRC WLA300-A00 water level indicator on pump operators panel</i>	1	
70-20-6500		Test gauge panel	1	MTL
70-20-7500		<i>Heat exchanger control valve</i>	1	MTL
70-20-7600		<i>Pump cooler control valve</i>	1	MTL
70-21-1650	U	<i>Electric Foam Level gauge on pump panel - FRC WLA360-A00</i>	1	
70-21-5500		<i>Panel readout for Battery Conditioner</i> Located LS cab step area.	1	MTL
		ACCESSORIES		
80-11-5000		<i>6" x 10' lightweight suction hose (ea)</i> Tube mounted (60-40-5500) Kochek brand requested - Customer to confirm (Harrington, Inc. brand is Metalfab's standard suction hose supplier)	2	MTL
80-12-2500		<i>6" barrel strainer</i> Not mounted. Shipped loose.	1	MTL
80-14-0505	U	<i>Duo Safety 24' extension ladder</i> Tube mounted (60-41-7500)	1	
80-14-5510	U	<i>Duo Safety 14' roof ladder</i> Tube mounted (60-41-7500)	1	
80-14-8510	U	<i>Duo-Safety 10' folding attic ladder</i> Tube mounted (60-40-5500)	1	
80-18-0500	S	<i>SCBA bracket with strap - compt mounted on horizontal tracking so adjustable</i> The two (2) unistruts and four (4) SCBA brackets will be shipped loose for installation after the delivery. As advised by Rod Harris by e-mail on 12.02.2020	4	MTL
80-19-0500	U	<i>Price Adjustment</i>	2	
80-99-20AA	U	<i>Spanner wrench set - TFT #A3840</i> Location of mounting bracket shall be: mounted at left side of pump panel as advised by Rod Harris by e-mail on 10.07.2020.	1	
80-99-25AA	U	<i>Akron Direct Mount only attached to monitor piping for Customers Apollo monitor</i> Akron direct mount only (for Apollo monitors) to supplied and installed on the monitor piping 30-44-6530.	1	

PART NO	S	DESCRIPTION	QTY	ID
80-99-30AA	U	<p><i>Vertical mounting board with stiffener</i> There will be a vertical mounting board installed on the right side of the L1 tray to hold a customer supplied/mounted extinguisher bracket. There will be a stiffener installed on the back side portion of the tray. There will be a vertical mounting board installed on the right side of the R3 tray up to the compartment depth change to be used as a tool board . There will be a stiffener installed on the back portion of the tray. As requested by Rod Harris by e-mail on 10.07.2020</p>	2	
80-99-35AA	U	<p><i>Rolled hose tube</i> There will be a tube installed on the left side of the tray in the L1 compartment. The rolled hose will be for a 25' length of 2.5" hose. The department will supply: Width of tube: 5" Height of the tube: 22" As requested by Rod Harris by e-mail on 10.26.2020</p>	1	