



Shop Order-00-10-15: Unclassified

Montague Volunteer Fire Department
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Exp. Date: 04/01/2015
Quote No: JMOPE-0020 **Job/Order No:** 18521
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

02/09/2017

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
			Change Order D	1	MTL
00-10-1500			Metalfab Pumper E	1	MTL
00-20-1000			Company Profile E	1	MTL
00-20-1500			Standard Body Warranty	1	MTL
00-20-1550			Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1600	S		Hale Pump Warranty - see 00-20-1700	1	MTL
00-20-1700			Hale Pump Warranty - 5 years	1	MTL
00-20-1800			Ultra Tank Lifetime Warranty	1	MTL
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000			No Bonding Required	1	MTL
00-20-3500			Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000			Quality System registered to ISO 9001:2008	1	MTL
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent E	1	MTL
10-11-0105			Vehicle Data Recorder not requested	1	MTL
			E		
10-11-1100	S		ULC S515-13 Compliance	1	MTL
10-11-1500	S	>	ULC Testing - Pumper	1	MTL
10-11-2100	S		Maximum length - preferred length - Short as possible	1	MTL
10-11-2200			Maximum height not specified	1	MTL
10-11-2300			Overall length is less than 30'	1	MTL
10-11-2500			General Construction	1	MTL
10-11-3000			Manuals - two copies	1	MTL
10-11-3600	S	>	Delivery - FOB Fire Department	1	MTL
10-11-4000			Payment Terms - Chassis Net 10 days, Balance 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 supplied by Metalfab - 4 dr Freightliner M2 106	1	MTL
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1600			Chassis Motor Vehicle Inspection not required	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
20-21-1550			Tire Pressure Indicators not requested	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			Non removable key	1	MTL
20-21-2500			Shifter lock not required E	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-21-3500			Rear step warning label	1	MTL
20-21-3810			Front mudflaps provided with chassis	1	MTL
			E		
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
20-31-1500		>	Special compartments in chassis steps	1	MTL
			E		
20-31-1900	S		Chassis cab painted red by Freightliner	1	MTL
20-31-7500	S	<	Console in cab	1	MTL
			Change Order A - Customer would like to install the 80-99-25AA Thermal Imaging Camera (TIC), the 80-99-30AA hand light chargers, and the 80-99-35AA Motorola gang charger in/on the console.		
			Customer to approve the layout design of the console before build.		
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-0900			Auxiliary braking system disabled when pumping	1	MTL
20-41-1100			Transmission programming - Allison WT	1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	MTL
			E		
20-41-1900			Battery boost terminals with chassis	1	MTL
					E
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
20-41-5005			Rear Tow Hooks not required	1	MTL
20-41-5210			Eront receiver	1	MTL
20-41-5299	U		12-Volt Power by front and rear receivers	1	
20-41-5500			ON SPOT Automatic traction chains	1	MTL
20-51-0710			Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500			Back up alarm included with chassis	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-4000	S		Auto eject for air inlet - LS	1	MTL
20-51-6200	S	>	120 volt 20 A shore line connection in chassis cab	4	MTL
20-51-6500			Kussmaul Autocharge 1000 battery conditioner w/battery saver	1	MTL
20-51-7100			Electric System Manager	1	MTL
20-51-7500	S		Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
20-51-8500			Engine compartment lights (pair)	1	MTL
20-51-9001	S		Air horns with chassis	1	MTL
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
			E		
20-52-4000	S		Rear View Camera system	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
20-90-1500		>	12 volt power point	1	MTL
					E
20-99-05AA	U		Dual USB charging socket	1	
20-99-10AA	U	<	10,000lb portable Warn Winch system	1	
			Multi Mount Kit - ZEON 10-S		
			SOPT 141		
20-99-15AA	U	<	Rear Receiver integrated into bumper with trailer wiring	1	
			Rear receiver in to integrated into the rear bumper/step to maximize angle of departure.		
			Include a removable pintle hook to slide into receiver (shipped loose).		
			PUMP AND PLUMBING	1	MTL
30-11-3002	S		Hale RSD 1250 IGPM PTO driven pump	1	MTL
30-15-0303			Plumbing - non manifold pump SM	1	MTL
			E		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1001			Valve brand not specified	1	MTL
30-20-1640			Piping galvanized steel - MG/DSD pump	1	MTL
30-20-1700	S		1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S		2-1/2" thread specifications - Charlottetown thread	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-5510			Tank to Pump 3" w/ check valve non manifold pump	1	MTL
30-22-0500			Tank Fill valve 2"	1	MTL
30-31-4000	S		Suction - 6" each side non manifold pump 6" header	1	MTL
30-31-7100	S	>	Hale master intake suction valve - handwheel control	2	MTL
30-32-7520			Suction - 2-1/2" left side, bleeder, non manifold pump	1	MTL
30-40-2006			4" right discharge, plumbed 3", non manifold pump	1	MTL
30-41-2006			2-1/2" RS discharge, bleeder, non manifold pump	1	MTL
30-41-2506			2-1/2" LS discharge, bleeder, non manifold pump	2	MTL
30-42-8500		<	1-1/2" rear discharge, plumbed 2"	1	MTL
			Mount on front wall of hose bed front partition, left side as shown on drawing - leave adequate room so hose wrench can be used to tighten fire hose to preconnect discharge pipe.		
30-43-1500	S		2-1/2" rear discharge, plumbed 2-1/2", bleeder	1	MTL
30-51-0400			Pump shift - PTO Pump and Roll	1	MTL
30-51-1500			Power shift PTO - Automatic transmission	1	MTL
30-51-1501			PTO driveshaft	1	MTL
30-51-6630			Class One "TPG" Governor/Throttle	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	2	MTL
30-51-7000	S	<	Suction side relief valve for 30-99-15AA 4" inlet	1	MTL
			Suction side relief valve provided to meet ULC 15.6.2.11		
30-51-8100			Heat exchanger included with chassis	1	MTL
30-51-9100			Thermal Relief Valve with warning light	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	1	MTL
30-52-8100	S	<	Electric foam fill pump with panel pickup	1	MTL
			Mount on driver's side (Left side) pump panel. Pick up tube to be mounted in the pump house area in a tube under the open top storage (accessible from right side through the pump inspection door).		
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
30-99-05AA	U	<	1.75" preconnects in fender hose well	2	
			No tray - deleted at April 15, 2015 Short vertical hose rollers will be installed at each end of the door opening Capacity for 200 feet of 1-3/4" hose is required		
30-99-06AA	U		Trident Automatic air primer - 3 location	1	
30-99-10AA	U	<	Trident pre-primer	2	
			Included with 30-99-06AA		
30-99-15AA	U	<	4" Inlet right side, 3" valve, push-pull control	1	
			Control will be on the left side pump panel unless otherwise specified. Suction will terminate with a straight 4" Storz fitting complete with screen and blind cap.		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			WATER AND FOAM TANKS	1	MTL
40-11-2100			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-4000			Tank capacity 500 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	1	MTL
40-21-1000			4" tank to pump connection	1	MTL
40-22-0500			2" tank fill connection	1	MTL
40-23-0500			1" water level gauge connection	1	MTL
40-23-1000			1" foam level gauge connection	1	MTL
40-30-0500			Sump drain valve (3" gate valve) with linkage	1	MTL
			E		
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-0400			Rear dump valve not requested	1	MTL
40-31-6050			Rear fill not requested	1	MTL
			ELECTRICAL	1	MTL
50-11-0500			Base electrical system	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
50-11-0900			Rocker switch panel with master warning switch	1	MTL
50-11-1400			Federal PA300 100 watt siren	1	MTL
50-11-1620			Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2600			Siren to be accessible to driver and officer	1	MTL
50-11-5811	S	>	Federal 46" Vision LED light bar RRWRWRR	1	MTL
50-11-7600			Rear LED Signal Master warning lights	1	MTL
50-11-9010			Rear beacons-Federal Micro Escape LED (pr) - both red	1	MTL
50-12-5020			Front LED flashers (pr)-red Federal QL64XF-R	1	MTL
50-12-5210			Front side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-12-5310			Body side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-21-1520	U		Whelen PFBP12C LED rear flood (pr)	1	
50-21-1600		<	Parking (ditch) lights in rear fenders	1	MTL
			Switched in the cab and interlock with reverse of transmission		
50-21-2540			FRC telescoping SPECTRA LED 12V flood (ea)	2	MTL
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			Equipment rack not stowed warning light	1	MTL
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-8201			Step lights for chassis steps - LED marker type	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-22-0800			Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)	1	MTL
50-31-6006		< >	Scene lights (pr) - Federal QL97 LED	3	MTL
			Each upper side corner and upper rear corners of the body		
50-31-6010			Scene light boxes (pr) - tread plate	2	MTL
50-31-6560			Ground lighting (LED Lumabar) - 4 door chassis	1	MTL
50-31-6570			Ground lighting (LED Lumabar) - side mount body	1	MTL
50-35-0500			Installation of customer supplied mobile radio	1	MTL
50-35-0559			Mobile radio antenna provided by customer	1	MTL
			E		
50-90-2600	U		Fridge 12VDC	1	
50-99-01AA	U	<	Honda EU3000iKC Inverter Generator	1	
			Mount on sliding tray in rear right side compartment		
50-99-20AA	U		Hose bed lights	1	
			BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4500	S		Aluminum tread plate fender surround - single axle	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5440		>	Diamondback 14" rear step	1	MTL
60-10-6000			Extruded rub rail	1	MTL
60-11-0300		>	Front left side compartments full height	1	MTL
			E		
60-11-0700		>	Front right side compartments full height	1	MTL
			E		
60-11-1000		>	Rear left side compartments full height	1	MTL
			E		
60-11-1400		>	Rear right side compartments full height	1	MTL
			E		
60-11-1900		< >	Low side compartment (up to 18") each	2	MTL
			Right and left side for speedlay compartment		
60-11-2000		< >	High side compartment (over 18") each	3	MTL
			Left side above speedlay compartment.		
			Right side above speedlay compartment, in front of and behind HLAS arm.		
60-11-3200		>	Full Height Rear compartment	1	MTL
60-11-4500	S		Flat surface mount aluminum door - single with "D" handle	2	MTL
60-11-5500			Rollup door - standard height	3	MTL
60-11-5520			Rollup door - full height	5	MTL
60-11-5530			Rollup door - to enclose pump panel	1	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5500			Steps at rear of body (folding)	1	MTL
60-31-5600			Steps and grab handles at front of body next to pump panel	1	MTL
60-31-5800	U		Step over rear compartment	1	
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-8700	S	>	Sliding tray (ea) - 400 pound capacity with gas strut	2	MTL
60-31-8700	S	>	Sliding tray (ea) - 400 pound capacity with gas strut	1	MTL
60-31-9600	S	>	Adjustable shelf (ea)	4	MTL
60-32-3550			Two adjustable hose divider (each)	1	MTL
60-32-7500			Hose bed - aluminum	1	MTL
60-33-0000			Paint exterior - Imron Elite	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	1	MTL
			E		
60-33-2200			Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
60-33-3000			Reflective stripe - 4" white	1	MTL
60-33-3310			Reflective stripe - red and yellow chevron at rear	1	MTL
60-33-3500			Tarp over hose bed - black	1	MTL
60-33-4700			No crosslay preconnects on vehicle	1	MTL
			E		
60-40-5500		<	Suction hose tube (each) with door	2	MTL
			Located on left side of body between tank and compartment		
60-41-1015			Pike Pole tube in suction hose tube	2	MTL
60-41-9500		>	Zico Horizontal Ladder Access system	1	MTL
60-41-9510			ZICO HLAS switched at rear above tail light	1	MTL
60-91-0500	S	>	Compartment SCBA Storage rack	1	MTL
			E		
60-99-0010	U	<	Fixed shelf	1	
			Install a fixed shelf at the depth change in the front LS compartment		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			INSTRUMENTATION	1	MTL
70-11-0000			<i>Warning Label on Pump Operator's Panel</i>	1	MTL
70-11-0501			<i>Side mount instrument panel with rollup door LS only</i>	1	MTL
70-11-1500			<i>Stainless steel instrument panels</i>	1	MTL
70-11-3200	S	<	<i>Colour coded tags</i>	1	MTL
			The 1-1/2" preconnect discharges are to be colour coded as follows:		
			Pre-connects over rear wheels 30-99-05AA are to be red and orange (no preference which side is which colour), and the hose bed preconnect 30-42-8500 is to be green.		
70-11-4500			<i>Diamondback grip type panel hood step right side</i>	1	MTL
70-11-5100			<i>Open storage at rear top of pump house</i>	1	MTL
70-11-5500			<i>Right side tread plate pump access door</i>	1	MTL
70-11-7500			<i>Heat pan-aluminum</i>	1	MTL
70-11-8100			<i>Heater in pump compartment not requested</i>	1	MTL
70-20-0500			4-1/2" compound gauge - dual face 0-600	2	MTL
70-20-1500			<i>2-1/2" pressure gauge - dual face 0-600</i>	8	MTL
70-20-3100			<i>Class One Governor Control</i>	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			<i>Heat exchanger control valve</i>	1	MTL
70-21-1500			<i>Electric Foam Level gauge</i>	1	MTL
70-21-2100		>	<i>PTO Hourmeter</i>	1	MTL
70-21-5500			<i>Panel readout for Battery Conditioner</i>	1	MTL
71-21-46AA	U	<	<i>Supply and install David Carke Headset H3340 on pump panel</i> Includes headset (1520514), Radio adapter (1520573), bulkhead 6-pin connector (1520574), cap for connector (1520575) and installation.	1	
			ACCESSORIES	1	MTL
80-11-5000			<i>6" x 10' lightweight suction hose (ea)</i>	2	MTL
80-13-0500			<i>Rubber mallet</i>	1	MTL
80-13-1500	S		<i>Bar with bracket</i>	1	MTL
80-13-2500			<i>Pike pole, fibreglass handle - 10' long</i>	2	MTL
80-13-4000	S		<i>Axe, pick head, fibreglass handle and bracket</i>	1	MTL
80-13-4500	S		<i>Axe, flat head, fibreglass handle and bracket</i>	1	MTL
80-14-0500			<i>24' 2 section extension ladder PEL 24</i>	1	MTL
80-14-5500			<i>14' aluminum roof ladder PRL-14</i>	1	MTL
80-14-8500			<i>10' aluminum folding attic ladder FL-10</i>	1	MTL
80-14-9000			<i>Attic ladder bracket (Zico)</i>	1	MTL
80-99-0010	U	<	<i>Smart Dock SCBA bracket for crew cab seat</i> Note that these will be shipped loose for customer installation as delivery time is 4-6 weeks.	3	
80-99-05AA	U	<	<i>On Scene Solution helmet bracket</i> There shall be a fabricated pocket adjacent to the helmet bracket for a Motorola CT250 portable radio (5.4" high plus antenna x 2.3" x 1.5"). On Scene Solution helmet bracket is for a Morning Pride helmet, mounted cab ceiling midway between front and rear dome lights	1	
80-99-10AA	U	<	<i>Extinguisher Vehicle Bracket for Badger Class D Extinguisher</i> For Customer supplied Class D Fire Extinguisher Customer to specify dimensions of the Extinguisher 26" tall and 8" in diameter Pictures of extinguisher are located at Metalfabphotos/road/Montague/Mini Pumper Not Mounted	1	

