



Shop Order

New Minas Volunteer Fire Department
 6 Jones Road
 New Minas, NS B4N 3N1



Exp. Date: 08/30/2017
Quote No: JNENS-0019
Job/Order No: 19885
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

06/05/2018

| PART NO | S | DESCRIPTION | QTY | ID |
|-------------------|----------|--|----------|------------|
| | | == Metalfab Pumper - ULC 05/13 - 0.000 == | 1 | MTL |
| | S | CHANGE ORDER E | 1 | MTL |
| 00-10-1500 | | Metalfab Pumper E | 1 | MTL |
| 00-20-1000 | | Company Profile E | 1 | MTL |
| 00-20-1500 | | Standard Body Warranty | 1 | MTL |
| 00-20-1550 | | Metalfab Limited Ten (10) Year Paint and Corrosion Warranty | 1 | MTL |
| 00-20-1600 | | Waterous Pump Warranty - 5 years | 1 | MTL |
| 00-20-1800 | 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 | | 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 |
| 10-11-0110 | | 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 | 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 chassis manuals are required. | 1 | MTL |
| 10-11-3600 | S | > Delivery - FOB Fire Department | 1 | MTL |
| | | ENG. NOTE: Note in the shop note if more than 4 hours of training is required | | |
| 10-11-4000 | | Payment Terms - Chassis Net 10 days, Balance COD | 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 | | |
| | | Main hose bed load is as follows; 1500 ft x 5" LDH 300' x 2.5" fire hose ***The additional hose exceeding the ULC standard requirements results in an extra weight of 1,435 pounds*** Note that the hose bed volume is 75 cubic feet and 1500 feet of 5" hi vol takes 58 cubic feet so there is adequate space. | | |
| 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 112 tandem 2 door 64,000 lb GVWR 18,000 lb front axle 46,000 lb rear axle 240" wheelbase, 174.45" calculated cab to axle Detroit DD13 505 hp @ 1625, 1900 governed rpm 1850 torque @ 975 rpm Allison 4000 EVS automatic transmission, 275 amp alternator 189 liter fuel tank, left side under cab No rear window ESC, VDR and Seat belt indicator /display Single color L0795 Red | 1 1 | MTL MTL |
| 20-11-1500 | | 2013 Emission chassis modifications | 1 | MTL |
| 20-11-1700 | S | Chassis Motor Vehicle Inspection - NS - as supplied by chassis dealership | 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 |
| 20-21-1540 | S < | Tire Pressure Indicators - Tandem Axle **** All stems must be visible from the outside of the truck **** SOPT 19 - Four (4) 180 degree solid extensions required | 1 | MTL |
| 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 | 1 | MTL |
| 20-21-3500 | | Rear step warning label | 1 | MTL |
| 20-21-3810 | | Front mudflaps provided with chassis | 1 | MTL |
| 20-21-4000 | | Rear mudflaps - Metalfab Logo | 1 | MTL |
| 20-31-0200 | | Fuel fill label -Ultra Low Sulfur Diesel only | 1 | MTL |
| 20-31-0500 | | Alum tread fuel tank trim, Conv - 2 door Vertical trim only, OEM cab steps remain | 1 | MTL |
| 20-31-1900 | S | Chassis cab single color painted by chassis OEM | 1 | MTL |
| 20-31-4700 | S < > | Extend front bumper, gravshld with Sidewinder Monitor Bumper is extended the minimum length required ***Engineering will determine*** Install a plate in front bumper opening painted black with NEW MINAS cut out with plasma. ENG. NOTE: Note location of preconnect elbow Note special capacity requirements _____ | 1 1 | MTL MTL |
| 20-31-7500 | S | Console in cab To house front turret controls (joystick ref 30-44-1088), tank to pump Navigator control (ref 30-21-95AA), primer control (ref 30-51-7715), pressure gauge (ref 70-20-15AA), governor(ref 30-53-2088), and foam start switch (ref 30-53-2088) similar to Departments previous units. Ref pic 580494 for M13-17331 Ref pic 11609 for M03-16914 Gray Zolatone finish to match cab interior finish ***Preliminary drawing required for the Pre-construction meeting*** The Department to approve the console layout _____ | 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 |

| PART NO | S | DESCRIPTION | QTY | ID |
|------------|---|--|-----|-----|
| 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 |
| 20-41-1900 | | Battery boost terminals with chassis E | 1 | MTL |
| 20-41-2200 | S | Chassis batteries relocated to pump house beside monitor Relocate to the pump house open storage area beside the deck gun on the left side of the body | 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 | | Rear Tow Hooks - through rear of body E Standard flatbar style. | 1 | MTL |
| 20-51-0700 | | Master Battery Disconnect included with chassis | 1 | MTL |
| 20-51-2500 | | Back up alarm included with chassis | 1 | MTL |
| 20-51-3100 | | Air inlet not required | 1 | MTL |
| 20-51-3400 | | Protection valve installed for air operated accessories | 1 | MTL |
| 20-51-6200 | S | > 120 volt 20 A shore line receptacles ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle, not fused Locations as below: Note: Must be minimum 12" from floor level to meet ULC. Receptacle #1 - Back of console for battery conditioner to plug into. Receptacle #2 - L1, high on back wall towards front of body Receptacle #3 - L2, high on back wall towards back of body Receptacle #4 - L3, high on back wall towards back of body Receptacle #5 - R1, high on back wall towards front of body Receptacle #6 - R2, high on back wall towards front of body Receptacle #7 - R2, high on back wall towards rear of body Receptacle #8 - R3, high on back wall towards front of body Receptacle #9 - Back of console Receptacles #1 and #9 to each be equipped with a Velcro strap secured above the receptacle and a footman loop located below the receptacle. This strap will secure transformer type plugs that are used in the receptacles. | 10 | MTL |
| 20-51-6600 | | Kussmaul Pump Plus conditioner/compressor Conditioner mounted on back side of console Compressor mounted in pump house easily accessible through right side pump access opening | 1 | MTL |
| 20-51-7100 | | Electric System Manager | 1 | MTL |
| 20-51-7500 | | Super Auto eject for 120 v - 20 A with sealed enclosure Located in left cab step area | 1 | MTL |
| 20-51-8500 | S | Engine compartment light - 4" LED One required each side to light up complete engine compartment Switched with park brake | 1 | MTL |
| 20-51-9001 | S | Air horns on hood controlled by dual lanyard included with chassis | 1 | MTL |
| 20-52-3500 | | > Chassis steering wheel lined up by Metalfab E | 1 | MTL |
| 20-52-4000 | S | Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab mounted on top of dash unless otherwise specified Camera to be active whenever the park brake is released - to be on all the time when driving. | 1 | MTL |

| PART NO | S | DESCRIPTION | QTY | ID |
|--------------------------|-----|--|-----|-----|
| 20-60-0400 | | Chassis wheelbase does not change | 1 | MTL |
| 20-99-10AA | U < | Brow light for chassis cab - Whelen PFH2 Mounted on brow of cab one each side inboard of the out marker light. Mounting bracket PBAM2C required. Single switch in cab. Wired to shed through the ESM SOPT 569A | 2 | |
| PUMP AND PLUMBING | | | | |
| 30-12-4000 | | Mechanical seals for Waterous pumps | 1 | MTL |
| 30-12-6500 | S | Waterous CSU single stage 1750 IGPM | 1 | MTL |
| 30-15-0204 | | Plumbing - Waterous manifold pump SM SS | 1 | MTL |
| 30-20-0500 | | Valves and controls - side mount panel | 1 | MTL |
| 30-20-1002 | S | Akron valves specified except side 2-1/2" Side 2-1/2" discharges to be Waterous 2-1/2" full flow ball valves (2 required) | 1 | MTL |
| 30-20-1600 | | Piping stainless steel - general | 1 | MTL |
| 30-20-1700 | S | 1-1/2" thread specifications - NPSH | 1 | MTL |
| 30-20-1800 | S | 2-1/2" thread specifications - NSZ1 (3.23 x 5) Sample cut hose provided and given to Inventory Control 10-25-2017 | 1 | MTL |
| 30-20-2000 | | Piping hydrostatic test | 1 | MTL |
| 30-20-2500 | | 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 |
| 30-21-95AA | U | Akron Electric tank to pump with control on panel and in cab, SS, 4" Navigator control on pump panel and in cab on console 20-31-7500. SOPT #788 | 1 | |
| 30-22-1520 | | Tank Fill valve 2-1/2" SS | 1 | MTL |
| 30-31-4010 | | Suction - 6" not gated each side manifold pump | 1 | MTL |
| 30-32-7535 | | Suction - 2-1/2" left side SS, bleeder, Waterous manifold pump | 1 | MTL |
| 30-32-8035 | | Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump | 1 | MTL |
| 30-40-2599 | U < | 5" Rear discharge, stainless, 4" valve and handwheel control, bleeder SOPT 733 Left of dump as shown on the proposal drawing. Piping to be routed between tank and compartments - back top corner of compartments will be notched slightly for clearance. | 1 | |
| 30-40-3015 | S | 5" right discharge SS, plumbed 4", handwheel, Waterous manifold pump, bleeder | 1 | MTL |
| 30-43-1520 | S < | 2-1/2" rear discharge SS, plumbed 2-1/2", bleeder Rear left side discharge to be located in the hose bed and be foam capable. Locate so that the connection is to the left of the fill box and to the rear of the fill box - requires a bulkhead at this point. This will allow a 2-1/2" preconnect to be located in the hose bed to the rear of the fill box. Rear right side discharge to be located under the intermediate step as shown on the proposal drawing | 2 | MTL |
| 30-44-0520 | | 1-1/2" crosslay (each) SS, 2" valve, bleeder Minimum capacity for 250' x 1-3/4" hose and nozzle in each lay. Equipped with stainless steel rollers on each end for easier hose removal | 2 | MTL |
| 30-44-1040 | S > | 2-1/2" front discharge for front Elhart Sidewinder EXM monitor ENG. NOTE: Requires extended front bumper, gravelshield Ref 30-44-1088 for electric valve and monitor | 1 | MTL |
| 30-44-1088 | U < | Elkhart Sidewinder EXM remote monitor on front bumper SOPT #887 - Includes Elkhart Quick Connect 7150 The joystick control will be mounted on the 20-31-7500 console. The preferred location of the Wireless handheld control and charger is beside the officer's seat accessible from outside the vehicle as photo The preferred location | 1 | |

| PART NO | S | DESCRIPTION | QTY | ID |
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| | | of the Wireless handheld control and charger is beside the officer's seat accessible from outside the vehicle similar to photo O:Minas45.JPG Add a vertical indicator pole to the removable section of the monitor to indicate the rotational position of the monitor from inside the cab **** Must have clear instructions on how to reposition the monitor to allow the hood to be opened **** | | |
| 30-44-6520 | S | Piping for monitor SS, plumbed 3", bleeder For the Elkhart Scorpion EXM monitor 80-99-10AA with riser 80-99-11AA Centered in open storage over pump house behind Crosslays. Install aluminum dividers in the open storage area to protect monitor when in stowed position. Position so that the monitor clears the body when in the full extended position; and that the monitor is below the top of the body when in the full retracted position Monitor riser to be reinforced to prevent movement when flowing water | 1 | MTL |
| 30-51-0500 | | Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel Mounted in cab dash to match M03-16914 (if room permits, if not may have to mount in console 20-31-7500). | 1 | MTL |
| 30-51-0700 | | Pump Gearbox mounted manual over ride for pump shift E | 1 | MTL |
| 30-51-6800 | | FRC InControl Governor/Throttle engine display with throttle knob | 1 | MTL |
| 30-51-7000 | | Suction side relief V/V, manifold pump | 1 | MTL |
| 30-51-7718 | U < | Automatic trident air primer with gauge SOPT 586a 3 barrel, single location. Order with an additional push button control to be mounted in cab console 20-31-7500. Install an additional air tank for chassis air | 1 | |
| 30-51-8100 | | Heat exchanger included with chassis | 1 | MTL |
| 30-52-2000 | | Drain valve for foam system header Use brass fittings or SS fittings - NO GALVANIZED | 1 | MTL |
| 30-52-4210 | | Foam System - Hypro FoamPro 2002 Single Tank Foam system is plumbed to the preconnects, front turret and the 2-1/2" rear in hose bed Use brass fittings or SS fittings - NO GALVANIZED | 1 | MTL |
| 30-52-8200 | U < | Power Fill Foam Re-Fill system - FoamPro SOPT 165 Install on RS pump panel. The pick-up hose will be installed in a tube in the pump house. | 1 | |
| 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 |
| 30-53-2088 | U | Additional Governor, primer controls and remote start for foam in cab See SOPT in truck file. All additional controls mounted in cab console - ref 20-31-7500 | 1 | |
| 30-99-0010 | U < | 6 port air operated master drain valve Hale 103005 6 port air operated drain valves, operated automatically by the pump shift cylinder air - no panel control necessary. | 2 | |
| 30-99-0020 | U < | 2-1/2" RS discharge SS Waterous valve Waterous 2-1/2" full flow valve requested | 1 | |
| 30-99-0030 | U < | 2-1/2" LS discharge SS Waterous valve Waterous 2-1/2" full flow valve requested | 1 | |
| 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 |
| 40-11-7500 | S | Tank capacity 2500 Imperial Gallons | 1 | MTL |
| 40-12-5000 | S | Foam cell - 30 Imperial gallon | 1 | MTL |
| 40-21-1000 | | 4" tank to pump connection | 1 | MTL |
| 40-22-1000 | | 3" 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 |
| 40-23-1050 | | 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 | 1 | MTL |
| 40-30-1100 | | Water Fill Box middle left side | 1 | MTL |
| 40-31-3500 | | 10" rear Newton dump, stainless steel | 1 | MTL |
| 40-31-3600 | | Newton dump - stainless steel 36" telechute | 1 | MTL |
| 40-31-5520 | U | Electric operator for Newton dump dual switches Install switches at rear above LS tail lights, and in the cab console | 1 | |
| 40-31-5688 | U | Stainless Steel rotating dump chute w/lock | 1 | |
| 40-99-05AA | U < | 5" Direct tank fill - Fireman Friend SOPT 142a 4" Fireman's Friend with 5" Storz elbow with suction screen adapter and 5" blind plug | 1 | |
| ELECTRICAL | | | 1 | MTL |
| 50-11-0500 | | Base electrical system ***Includes green "Battery On" indicator light on chassis instrument panel. | 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 switches mounted in center overhead cab console ***Rocker switch assignments: MASTER -LIGHT BAR -FLASHING WARNING -BROW LIGHTS -REAR SCENE -LEFT SCENE -RIGHT SCENE -REAR FLOODS -DITCH LIGHTS | 1 | MTL |
| 50-11-1450 | | Federal PA300 200 watt siren Mounted in dash similar to M03-16914 | 1 | MTL |
| 50-11-1630 | | Siren speaker, 200 watt, in front bumper Left side | 1 | MTL |
| 50-11-2010 | S | Federal Q2B mechanical siren - through front bumper Right side through bumper using a pedestal type mount bolted to a bracket to frame behind the bumper. ***Controlled by foot switch at both driver and officer positions. Siren brake switch located on the chassis dash accessible to driver | 1 | MTL |
| 50-11-2600 | | Siren to be accessible to driver and officer | 1 | MTL |
| 50-11-6100 | S < | Whelen LED F4N0QLED light bar - ALL RED Refer to modified SOPT 891 in truck file. | 1 | MTL |
| 50-11-6610 | | Rear LED Traffic Advisor warning lights - flush mount TAL85 Control mounted in dash adjacent to the siren 50-11-1450. | 1 | MTL |

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| 50-11-8001 | | > <i>Rear beacons not required</i> <i>E</i> ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present | 1 | MTL |
| 50-12-8500 | S | <i>Front LED flashers (pr)-Whelen red LED 400 with integral flasher</i> | 1 | MTL |
| 50-12-8600 | S | <i>Rear LED flashers (pr)-Whelen red LED 400 with integral flasher</i> | 1 | MTL |
| 50-12-8620 | S | <i>Rear LED flashers (pr)-Whelen red LED 900 with integral flasher</i> | 1 | MTL |
| 50-12-8700 | S | <i>Front side inter lts (pr) - Whelen red LED 400 with integral flasher</i> *****Mounted in bumper tails***** | 1 | MTL |
| 50-12-8800 | S | <i>Body side inter lts (pr)-Whelen red LED 400 with integral flasher</i> | 1 | MTL |
| 50-12-8820 | S | <i>Body side inter lts (pr)-Whelen red LED 900 with integral flasher</i> | 2 | MTL |
| 50-12-8901 | S | > <i>Add'l body side inter lts (pr)-Whelen red LED 400 with integral flasher</i> ENG. NOTE: Required if distance between front and rear side intersection lights exceeds 25' | 1 | MTL |
| 50-21-1505 | U | <i>Unity LED Rear Floods (pr)</i> Switched in cab. Cannot be managed - required for ULC | 1 | |
| 50-21-1610 | U | <i>Parking (ditch) lights in rear fenders - LED with Stainless housings</i> Switched in cab. Managed to shed through the ESM. | 1 | |
| 50-21-5100 | | > <i>Compartment lighting - LED tube lights in each compartment (rollup doors)</i> ENG. NOTE: Rollup doors only Low side compartments over rear wheels will be equipped with 4" grommet mounted LED compartment lights. | 1 | MTL |
| 50-21-5500 | | <i>Door Ajar warning light</i> Located in upper cab console area over drivers seating position Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" | 1 | MTL |
| 50-21-5550 | | <i>Equipment rack not stowed warning light</i> Located in upper cab console area over drivers seating position - One for LAS, one for PTS, and one for the Elkhart monitor extender 80-99-11AA. Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" | 3 | MTL |
| 50-21-8001 | | <i>Step lights for body steps - 4" LED</i> Lighting required for the lower platform/step where dump chute blocks lighting from unity floods. Switched when park brake is set. | 1 | MTL |
| 50-21-8201 | S | <i>Step lights for chassis steps - LED</i> Switched when park brake is set. SOPT #194a | 1 | MTL |
| 50-21-8510 | S | <i>LED Rear clearance lights on rubber arms (pr)</i> Mounted on rub rail on rear step as shown on the proposal drawing | 1 | MTL |
| 50-21-8600 | | LED clearance lts and reflectors | 1 | MTL |
| 50-21-8800 | | <i>LED intermediate turn signal/clearance/reflector length >30'</i> | 1 | MTL |
| 50-22-0700 | S | <i>Whelen 64 LED tail/brake-turn-backup module (pr)</i> | 1 | MTL |
| 50-31-6016 | U | <i>Whelen 900 LED scene lights (pr) - Rear Facing</i> Switched in cab and switched on when the chassis transmission is placed in reverse. Managed to shed through the ESM. SOPT 39c | 1 | |
| 50-31-60AA | U < | <i>Whelen Pioneer LED scene light - PCPSM1C (pr) - 12-Volt</i> Located upper rear and upper front sides of body, inboard of the red flashing lights. Switched in cab. Managed to shed through the ESM. SOPT 1010 | 2 | |

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| 50-31-6550 | | Ground lighting (LED Lumabar) - 2 door chassis Switched when park brake is set. | 1 | MTL |
| 50-31-6570 | | Ground lighting (LED Lumabar) - side mount body Switched when park brake is set. | 1 | MTL |
| 50-31-6595 | U < | Install LED lumabar under each compartment and front bumper Switched when park brake is set. SOPT 590 | 5 | |
| 50-31-65AA | U < | Hose bed lighting - LED front partition (ULC requirement) Switched when park brake is set. SOPT 958 | 1 | |
| 50-35-0500 | S < | Installation of customer supplied mobile radio Motorola M1225 and TMR Location of radios: Install M1225 VHF radio in slot towards front of cab Install TMR in middle slot Install Firecom module towards rear of cab Power to radios will be provided switched through Master disconnect. Radios will not be wired unless the power harnesses are provided for the radios and the frequencies are provided for each radio See 71-21-60AA for wiring to pump panel Nova Communication will remove the power and accessory harness from the replaced truck and complete the radio install on the new truck. Metalfab will run power, ground and antennas to the radios but Nova will complete the install and perform the programming. | 2 | MTL |
| 50-35-0560 | | VHF antenna with base - commercial chassis Specify any special location of antennas and any special spacing requirements | 2 | MTL |
| 50-99-0010 | U | LED lights in chassis doors SOPT in truck file Requires 4 x 1570899 LIGHT,FLASHING LED OSROOFCR, OVAL; W/CHROME FLANGE, operable when cab door is open | 1 | |
| | | BODY | 1 | MTL |
| 60-10-1600 | | Tandem axle extruded aluminum body | 1 | MTL |
| 60-10-1688 | U | Full width hose bed and inset sides like Oakhill, NS | 1 | |
| 60-10-4100 | | No "beavertail" rear step supports | 1 | MTL |
| 60-10-4600 | | Painted fender surround | 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 |
| 60-10-6000 | | Extruded rub rail | 1 | MTL |
| 60-11-0200 | > | Front left side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note | 1 | MTL |
| 60-11-0600 | > | Front right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note | 1 | MTL |
| 60-11-1000 | S > | Rear left side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note | 1 | MTL |

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| 60-11-1400 | | > Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note | 1 | MTL |
| 60-11-1900 | S | < > Low side compartment (up to 18") each Install cover plates over vent holes in L2 and L3, vents not required ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body | 4 | MTL |
| 60-11-3100 | | No rear compartment E | 1 | MTL |
| 60-11-4500 | | Flush mount aluminum door - single with "D" handle Drop down type - two left side over rear wheels, two right side over rear wheels | 4 | MTL |
| 60-11-5530 | S | Rollup door - to enclose pump panel - painted job colour Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point | 1 | MTL |
| 60-11-5610 | | Rollup door - painted job colour - intermediate height Painted to match body Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point | 2 | MTL |
| 60-11-5620 | | Rollup door - painted job colour - full height Painted to match body Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point | 2 | MTL |
| 60-11-5665 | U | < Amdor Flex-HD pull down straps for R4 roll up doors Return second strap to parts room, L4 changed to an intermediate rollup door | 2 | |
| 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 Left side rear to access top intermediate step Lighting required to meet ULC Minimum 7" clearance between rung and any obstruction | 1 | MTL |
| 60-31-5500 | S | < Lighted steps at rear of body (folding) Right side only RS only to access top intermediate step (LS has a Zico access ladder) Maximum height between steps is 18" | 1 | MTL |
| 60-31-5600 | S | < Steps and grab handles at front of body next to pump panel - RS only RS only to access 70-11-4500 diamond back panel step and open storage over pump house. (LS has a roll up door on the pump panel) Maximum height between steps is 18" | 1 | MTL |
| 60-31-5800 | S | Full width step on rear under hose bed integral with body | 1 | MTL |
| 60-31-6500 | | Compartment matting-Turtle tile | 1 | MTL |
| 60-31-8400 | S | Fixed vertical partition Add two partitions to the Slidemaster in R4 to match photo O:Minas, NS - M13-17331_0719.JPG | 2 | 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 Locations to be at floor level in compartments below; Tray #1 - L1 Tray #2 - L4 Tray #3 - R1 - Add 12" high vertical partitions at end next to fender and 21" from | 4 | MTL |

| PART NO | S | DESCRIPTION | QTY | ID |
|------------|---|---|-----|-----|
| | | end next to pump panel - enclose back with a 12" partition as well. Leave 21" x 24" for customer portable pump at forward end of sliding tray. Tray #4 - R4 | | |
| 60-31-9600 | S | > Adjustable shelf (ea) ENG. NOTE: Specify location | 2 | MTL |
| | | Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1 - L1 full depth 1 - R1 full depth | | |
| 60-31-9610 | U | Fixed shelf for radios and flashlights Make the radio shelf the same height as the console and mount the radio chargers (both here). The TMR will be sideways towards the driver and the small base towards the officer seat. Install an aluminum binder holder on the back wall. Engineering has the details. | 1 | |
| 60-32-3550 | S | Two adjustable hose divider (each) Hand hold required in end One divider to be shorter to extend from the back of the body to the fill box only One divider to be full length of hose bed. Include bulkhead referenced in 30-43-1520 | 1 | MTL |
| 60-32-7500 | S | Hose bed - aluminum Main hose bed load is as follows; 1500 ft x 5" LDH 300' x 2.5" fire hose Include an angled diverter forward of the water fill box so that hose can be stored ahead of the fill box. Note that the hose bed volume is 75 cubic feet and 1500 feet of 5" hi vol takes 58 cubic feet so there is adequate space. Remove bolted grip material at end of body to prevent damage to hose when pulling off. Suggest replacing with embossed deck plate. | 1 | MTL |
| 60-33-0100 | S | Paint exterior - Imron Elite and CLEARCOAT *** 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 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 | | Lettering - no lettering provided | 1 | MTL |
| 60-33-3000 | | Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front | 1 | MTL |
| 60-33-3310 | | Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface | 1 | MTL |
| 60-33-3500 | U | Hose Bed Restraint - black webbing 1/3 rear of hose bed At the rear of the hose bed, 2.00" black nylon webbing with a 1.50" x 4.00" box pattern shall attach at the top rear outside corners with 2.00" cam buckle fasteners. The webbing shall have straps connected with magnets located at the rear body sheet below the hose bed. Note that this will not restrain nozzles connected to the hoses and customer is responsible for making sure that nozzles are secured. | 1 | |
| 60-33-4600 | S | < Aluminum cover over crosslays - with mesh end tarps (black) End tarps to be mesh, anchored below the hose bed with magnets. Note that this will not restrain nozzles connected to the hoses and customer is responsible for making sure that nozzles are secured. Ref SOPT 1101 | 1 | MTL |

| PART NO | S | DESCRIPTION | QTY | ID |
|------------------------|-----|--|-----|-----|
| 60-40-5500 | S < | Suction hose tube (each) with door Two (2) suction tubes under tee of tank in the body with door for storage of the 6" x 10' suction hoses 80-11-5000. Door Ajar switch required. The hose tubes are to be 6" longer than the 6" suction hoses to allow the customer to store their 2-1/2" suction hoses inside. | 2 | MTL |
| 60-41-1015 | S | Pike Pole tube in suction hose tube A 2" ID storage tube for a pike pole is installed with access at the rear, in one corner of the suction hose tube. The pike poles will be customer supplied. Customer confirmed that their pike poles will slide into the 2" ID tube | 2 | MTL |
| 60-41-6001 | > | Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position Left side To be wired so only operable when park brake is engaged and drop down doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body and wired to the equipment not stowed warning light in cab. | 1 | MTL |
| 60-41-6010 | | ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - left side | 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 |
| 60-41-9001 | > | Zico hydraulic Ladder Access system 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 Right side To be wired so only operable when park brake is engaged and drop down doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body and wired to the equipment not stowed warning light in cab. | 1 | MTL |
| 60-41-9010 | | ZICO LAS switched at rear above tail light E Switch is located on same side as electric rack - right side | 1 | MTL |
| 60-41-9100 | | Manual locking system for LAS Install information label at switch location to instruct operator to release locks prior to lowering the ladder. | 1 | MTL |
| 60-99-0010 | U | Drip tray with drain for Rollup door compartment L1 SOPT 1185 | 1 | |
| INSTRUMENTATION | | | | |
| 70-11-0000 | | Warning Label on Pump Operator's Panel | 1 | MTL |
| 70-11-0501 | | Side mount instrument panel with rollup door LS only 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 |

| PART NO | S | DESCRIPTION | QTY | ID |
|--------------------|-----|---|-----|-----|
| 70-11-4500 | S | <i>Diamondback grip type panel hood step right side</i> | 1 | MTL |
| 70-11-5100 | S | <i>Open storage at rear top of pump house with top doors</i> Accessed from steps up right side of pump panel. Install aluminum dividers in the center open storage area to protect monitor when in stowed position. Add framing around storage areas and tread plate doors with gas struts and lift and turn latches each side of monitor to cover storage area. Doors to clear monitor. Compartment lights, door switches, and wiring to door ajar warning in cab required. | 1 | MTL |
| 70-11-5500 | | <i>Right side tread plate pump access door</i> No opening dimension less than 18" | 1 | MTL |
| 70-11-7500 | | <i>Heat pan-aluminum</i> | 1 | MTL |
| 70-11-8000 | | <i>Heater in pump compartment</i> Switch for heater is located on left side operators panel | 1 | MTL |
| 70-20-14AA | U < | <i>2-1/2" pressure gauge - dual scale - 0 - 300 psi (ea)</i> SOPT #1103 - mark up copy in file | 12 | |
| 70-20-15AA | U | <i>Pressure gauge in cab for front turret - dual scale - 0-300 psi</i> Located in console 20-31-7500 | 1 | |
| 70-20-3300 | | <i>FRC InControl Governor Control</i> One for pump operators panel left side and one in the 20-31-7500 console in cab. Throttle on left side pump panel can be no lower than 42" and no higher than 72" from operator's standing position. | 2 | MTL |
| 70-20-3500 | | Electric water level gauge on pump panel, Class One | 1 | MTL |
| 70-20-3610 | | <i>Remote PSTANK water level indicators each side, rear with driver</i> One on rear vertically mounted centered over rear dump. One on each side mounted horizontally centered in the upper portion of the side(s). Interlock with park brake so powered only when the park brake is set. | E 1 | MTL |
| 70-20-6500 | | Test gauge panel | 1 | MTL |
| 70-20-7500 | | <i>Heat exchanger control valve</i> | 1 | MTL |
| 70-21-1500 | S | <i>Electric Foam Level gauge on pump panel, Class One</i> | 1 | MTL |
| 70-21-5500 | | <i>Panel readout for Battery Conditioner</i> Located in left cab step area | 1 | MTL |
| 70-99-10AA | U | <i>Two (2) Firecom radio interface and headsets</i> SOPT #1065 Radio interface to be mounted same area as radio (Motorola M1225) Wireless headsets to be hung from ceiling at the back of the cab | 1 | |
| 71-21-60AA | U | <i>Motorola speaker on pump panel with volume control</i> SOPT in truck file Speaker is a Motorola HSN4040 15 Watt water resistant Include a 6 conductor cable for future installation of a customer microphone connection by others. | 1 | |
| ACCESSORIES | | | 1 | MTL |
| 80-11-5000 | | <i>6" x 10' lightweight suction hose (ea)</i> Tube mounted | 2 | MTL |
| 80-12-2500 | | <i>6" barrel strainer</i> Shipped loose, not mounted - Customer will mount | 1 | MTL |
| 80-12-2700 | | <i>6" floating strainer</i> Shipped loose, not mounted - Customer will mount | 1 | MTL |
| 80-12-4500 | > | <i>6" low level strainer with 1-1/2" venturi connection</i> ENG. NOTE: Gordon, Kocheck says to start at 50 psi but max would be 100 PSI on Jet Siphon | 1 | MTL |

| PART NO | S | DESCRIPTION | QTY | ID |
|------------|-----|---|-----|-----|
| | | Shipped loose, not mounted - Customer will mount | | |
| 80-13-0500 | | <i>Rubber mallet</i> Shipped loose, not mounted - Customer will mount | 1 | MTL |
| 80-14-0500 | | <i>24' 2 section extension ladder PEL 24</i> Mounted on LAS | 1 | MTL |
| 80-14-5500 | | <i>14' aluminum roof ladder PRL-14</i> Mounted on LAS | 1 | MTL |
| 80-14-8500 | | <i>10' aluminum folding attic ladder FL-10</i> Mounted in 80-14-9000 brackets that are mounted on LAS | 1 | MTL |
| 80-14-9000 | | <i>Attic ladder bracket (Zico)</i> Mounted on LAS | 1 | MTL |
| 80-15-1010 | S | <i>3000 l gallon portable tank - Husky</i> | 1 | MTL |
| 80-19-0500 | S | <i>Large folding wheel chock - aluminum (ea)</i> Mounted in 80-19-0600 brackets | 2 | MTL |
| 80-19-0600 | S | > <i>Horizontal bracket for folding wheel chock (ea)</i> ENG. NOTE: Specify location, otherwise ship loose | 2 | MTL |
| | | To be located in the L1 compartment, final location to be determined at first plant visit | | |
| 80-99-0100 | U | <i>Supply and install shovels and brooms in R4</i> Supply and install on vertical tool boards in R4: -2 round point shovels -1 square shovel -1 small broom with long bristles Mounted with PAC 1001 Hooklok brackets | 1 | |
| 80-99-0200 | U < | <i>Clare Wrenches (2) with bracket</i> Suitable for Storz and rocker lug, hydrant | 3 | |
| 80-99-10AA | U | <i>Elkhart Electric Scorpion EXM monitor</i> Elkhart Scorpion EXM monitor with stream shaper, standard panel mount controls with stow, a handheld transmitter for inside cab, and SM-1250E Nozzle SOPT #1194 (ref PO #50640) | 1 | |
| 80-99-11AA | U | <i>Elkhart monitor electric extender - Model 8598</i> Electric extender - 3" victaulic x 3" M NPT, complete with sensor wired to 50-21-5550 warning light in cab, harness and controller with position indicator SOPT #968 (ref PO #50640) Position so that the monitor clears the body when in the full extended position; and that the monitor is below the top of the body when in the full retracted position | 1 | |
| 80-99-15AA | U < | <i>6 28" traffic cones</i> To be installed in L4 compartment, no holder required | 1 | |
| 80-99-20AB | U < | <i>2.5" x 1.5" reducing caps - chrome plated (ea) with end caps</i> Install on the LS discharge, RS discharge, and the two rear discharges. SOPT #791 NSZ1 | 4 | |
| 80-99-25AA | U | <i>Mount Customer supplied flashlight and portable chargers in chassis cab</i> SOPT #96 As directed by Customer Location of flashlight charger so power can be pre-wired - located in L2 compartment, will plug into 120 v shore line connection Location of portable radio charger - on radio shelf as 60-31-9610, will plug into 120 v shore line connection | 1 | |