



Shop Order

Town of Marystown
 Justin Bolt Fire Chief
 PO Box 1118
 Marystown, NL,
 1-709-279-3015
 1-709-279-2226
 jbolt@townofmarystown.ca

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Sales Rep: Ryan Stacey Business Development Manager	Terms: Chassis & Body COD
Drawing #: FT-11619	
Est. Delivery Date: 04/30/24	
Customer PO #:	Penalty:
Customer #:	None
QPF #:	Delivery 12 months from receipt of chassis

Exp. Date: 03/09/2023
Quote No: RMANL-0016
Job/Order No: 22918
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

07/10/2024

PART NO	QTY	DESCRIPTION
== Metalfab Pumper - ULC 05/13 - 0.000 ==		
Change Order D		
00-05-0030	1	Dealer - Emergency Repair Ltd
00-10-1500	1	Metalfab Pumper
00-20-0500	1	List of References not provided
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1600	1	Waterous Pump Warranty - 5 years
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
GENERAL INFORMATION		
10-11-0000	1	Intent
10-11-0105	1	Vehicle Data Recorder not requested
10-11-1100	1	ULC S515-13 Compliance
10-11-11AA	1	ULC labels bilingual English/French
10-11-1500	1	ULC Testing - Pumper - Imperial units of measure
10-11-2100	1	Maximum length 380"
Confirmed at Preconstruction Meeting		

PART NO	QTY	DESCRIPTION
10-11-2200	1	Maximum height 127" Confirmed at Preconstruction Meeting
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies ***Two copies of chassis manuals are required.
10-11-30AA	1	Digital copy of manuals Provide a digital copy of all manuals where available
10-11-3600	1	Delivery - FOB Fire Department Delivery to be 12 months from Receipt of Chassis
10-11-4200	1	Payment Terms - Chassis and Body COD
10-20-1400	1	Hose capacity exceeding ULC/NFPA requirements 300' - 4" LDH 600' - 2-1/2" DJ 600' - 1-1/2" DJ Add 200 pounds to weight allowance for ULC testing
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab Freightliner 2-door 2-man cab 44,000 lb GVWR 14,000 lb front axle 30,000 lb rear axle Wheelbase - 236", cab to axle 170.67" Cummins B6.7 360 hp @ 2600 rpm 2600 governed rpm 800 lb/ft torque @ 1800 rpm 270 Amp alternator Cummins exhaust brake - activates stop lamps Allison 3000 EVS automatic transmission - package 198 six speed 189 litre fuel tank, LH Air ride Driver's seat/Fixed Passenger's seat Single color red - code L0890EB Paint sample approved June 8 To match their previous unit M11-15596 Include exterior visor per 11.6 Include overhead storage above windshield per 11.6
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB As provided from chassis dealer
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1000	1	Maximum riders sign - 2 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1560	1	LED Tire Pressure Indicators - Single Axle
20-21-1600	1	Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high

PART NO	QTY	DESCRIPTION
		** 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	1	Non removable key
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
20-21-3800	1	Front mudflaps
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-0600	1	Alum tread fuel tank covers, diamond grip steps, Conv - 2 dr
20-31-1900	1	Chassis cab not painted
20-31-6000	1	Stainless steel wheel covers - single axle
20-31-75AA	1	Console in cab - SPECIAL CONFIGURATION
		To include:
		50-11-0900 switch panel
		50-11-1400 siren
		30-51-0500 pump shift in console
		50-11-7600 Traffic Advisor Economy Control
		Provision for 50-99-05AA mobile radio
		Blank plate for 50-35-0560 future customer radio
		Two mike clips - one for siren, one for mobile radio
		20-90-1600 USB power points
		20-90-1500 12 volt power points
		Remote control for 50-31-1700 Inverter
		Storage area with hinged cover and LOCKING latch provided at rear of console.
		Gray zolatone finish
		Storage comp has lockable cover
		Mount 80-20-3000 portable hand lights on top rear of console behind the storage door
20-41-0600	1	Intake air shutoff for engine not required
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1110	1	Transmission Programming - Allison 3000EVS
		***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels
		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.
		Adapt to customer Plymovent per 20-99-05AA - minimum dimension from any point on the body to the centre of the exhaust is 4"
		Add heat shield between exhaust and front RS compartment floor
20-41-1900	1	Battery boost terminals with chassis
		Included with chassis 295-029 under hood in wheel well.
		Accepted at precon provided they are easily accessible
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location

PART NO	QTY	DESCRIPTION
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)
20-41-5500	1	ON SPOT Automatic traction chains Install switch on LS driver's dash similar to M20-21182
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3100	1	Air inlet not required
20-51-3400	1	Protection valve installed for air operated accessories
20-51-6100	2	120 volt 15 A Inverter connection in chassis cab Standard 5-15R duplex receptacle in chassis cab, not fused, powered from 50-31-1700 Inverter 1 - On console LS back 2 - On console RS back
20-51-6200	4	120 volt 20 A shore line connection in chassis cab Standard 5-20R duplex receptacle in chassis cab/body, not fused, powered from 20-51-1700 Shore Line connection 1 - 1 for portable pump - Left Rear Compartment for Battery Tender for customer portable pump. Metalfab to provide a CTC 11-1940-0 .75 A/12 V Battery Tender at this location. 2 - 1 for Battery Conditioner in Chassis Cab behind driver seat 3 - On console LS back 4 - On console RS back
20-51-6600	1	Kussmaul Pump Plus conditioner/compressor Install Battery conditioner on back of 20-31-75AA console/ Install compressor in pump house with splash shield.
20-51-7102	1	Electric System Manager included WELDON VMUX Electric System management provided with 50-11-0300 VMUX multiplexed electrical system.
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Locate forward on LS cab step same as M20-21182 and proposal drawing, confirmed at Preconstruction meeting
20-51-8505	1	Engine compartment light included with chassis LED engine compartment light provided with chassis (469-014), switched in cab and hood switch. Confirmed at Preconstruction meeting
20-51-9001	1	Air horns provided with chassis, foot switch controlled ***Controlled by foot switches at driver and officer positions Freightliner 727-1B0, 264-014
20-51-9500	1	Code 3 utility LED 33" light bar in front bumper Switched on cab console, not connected to chassis headlight wiring.
20-52-1000	1	Federal Littlite gooseneck map light (ea) Located right side of console
20-52-3500	1	Chassis steering wheel lined up by Metalfab

PART NO	QTY	DESCRIPTION
20-52-4009	1	Pro-Vision camera system - 4 cameras - front, right, left and rear - with DVR Mount monitor on dash, forward facing camera mounted forward of monitor (low). Confirmed at preconstruction meeting Rear view camera will display when vehicle is in reverse. All other cameras displayed when manually selected.
20-60-0400	1	Chassis wheelbase does not change
20-90-1500	4	12 volt power point Located on cab console in addition to the socket provided with the chassis 284-101. Powered from chassis master battery switch.
20-90-1600	2	Kussmaul Dual USB charging socket Located on cab console in addition to the socket provided with the chassis 284-101. Powered from chassis master battery switch.
20-99-05AA	1	Plymovent Adapter Supply and install a 100 mm tailpipe adapter/connector as shown in the documentation in the Basecamp job folder under "Other Documents"
20-99-15AA	1	Dock for Tablet in Cab Located on Passenger side of console Tablet will be an iPad Mount will be a RAM Tab-Tite 9"10.5" tablet holder with flat surface mount, model RAM-138-TAB20U
PUMP AND PLUMBING		
30-12-3900	1	Packing for Waterous pumps
30-12-5500	1	Waterous CS single stage 1050 IGPM
30-15-0203	1	Plumbing - Waterous manifold pump SM
30-20-1000	1	Valves and controls - top mount panel
30-20-1003	1	Elkhart valves specified
30-20-1600	1	Piping stainless steel - general
30-20-1700	1	1-1/2" thread specifications - 1-1/2 TPI - ODM 1-7/8" (NPSH)
30-20-1800	1	2-1/2" thread specifications - 5 VTPI - ODM 3.25" (St. John's) Department to supply sample male and female coupling _____
30-20-2000	1	Piping hydrostatic test
30-20-2500	1	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.
30-21-5690	1	Tank to pump 3" w/check valve manifold pump
30-22-0630	1	Tank Fill valve 2"
30-31-4010	1	Suction - 6" not gated right side manifold pump
30-31-7210	1	Waterous large intake Monarch suction valve - electric control *** Suction to be gated is - Left side 6"
30-32-7645	1	Suction - 2-1/2" left side, bleeder, Waterous manifold pump Controlled at top mount panel
30-32-8145	1	Suction - 2-1/2"right side, bleeder, Waterous manifold pump Controlled at top mount panel

PART NO	QTY	DESCRIPTION
30-40-21AA	1	4" right discharge, plumbed 3" Elkhart with slo cloz, Waterous manifold pump 4" Storz connection, includes 30 degree droop, bleeder, cap.
30-41-2135	1	2-1/2" RS discharge, bleeder, Waterous manifold pump Controlled from top mount panel
30-41-2635	2	2-1/2" LS discharge, bleeder, Waterous manifold pump Controlled from Top Mount panel
30-43-2535	1	2-1/2" rear discharge, plumbed 2-1/2", bleeder Upper Right Rear, confirmed at preconstruction meeting Provide clearance for customer gated wye so it can be left in place without interfering with the ladder tube door
30-44-0785	2	1-1/2" speedlay (each) front of pumphouse, plumbed 2" Each speedlay includes a removable tray, stainless steel angles at each end to protect the finish around the hose bed.
30-44-6630	1	Piping for monitor, plumbed 3", bleeder Maximum height with monitor installed - 127" Make and Model of Monitor - Elkhart Vulcan 8500-02 (80-99-10AA)
30-51-0500	1	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
30-51-0700	1	Pump Gearbox mounted manual over ride for pump shift
30-51-6630	1	Class One "TPG" Governor/Throttle
30-51-7000	2	Suction side relief V/V, manifold pump One for pump, one outboard of LS inlet valve
30-51-7500	1	Primer electric vane type 12V with oil tank Waterous Indicator light on panel to show when primer is operating Include slot in RS pump access door for PrimeSafe tank
30-51-8000	1	Heat exchanger provided by Metalfab, not available from Freightliner
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	Drain valve for foam system header
30-52-5515	1	Foam System-Hypro FoamPro 2001 Single tank Foam system is plumbed to following discharges: 2-1/2" Rear 2 1-1/2" Speedlays
30-52-8100	1	Electric foam fill pump with panel pickup Provide pickup connection on RS pump panel, pickup hose stored in pump house
30-52-9100	1	Foam concentrate label at foam tank fill
30-52-9200	1	Foam System Instruction Plates
30-52-9400	1	NFPA Foam System certification test

PART NO	QTY	DESCRIPTION
WATER AND FOAM TANKS		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-5000	1	Tank capacity 1000 Imperial Gallons
40-12-5000	1	Foam cell - 30 Imperial gallon
40-21-0500	1	3" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	3/4" water level gauge connection
40-23-0500	3	Price Adjustment
40-23-1050	1	4" Fireman's Friend connection
40-23-1060	1	10" Newton dump connection
40-30-0400	1	Price Adjustment
40-30-0500	1	Sump drain valve (3" gate valve) with linkage Control located under the body rub rail under left side front compartment
40-30-1000	1	Water Fill Box front left corner
40-31-3500	1	10" rear Newton dump telechute, stainless steel, included with 40-31-5610
40-31-4610	1	Newton dump, top mount operation, stainless steel
40-31-5510	1	Electric operator for Newton dump, top mount Switch located left side above rear taillights
40-31-5610	1	Rotating dump chute for Newton dump SS with telechute
40-31-5800	1	Support for rotating dump chute if necessary Engineering to determine if this support is required
40-31-9000	1	4" Storz rear fill, Fireman's Friend Includes 30 degree droop, bleeder and cap
ELECTRICAL		
50-11-0300	1	Base electrical system - multiplex
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -REAR FLOODS -FRONT UTILITY BAR -SPARE Ground lights operate with park brake, confirmed acceptable at preconstruction meeting
50-11-1400	1	Federal PA300 100 watt siren
50-11-1620	1	Siren speaker, 100 watt, in front bumper - Federal AS124
50-11-2600	1	Siren to be accessible to driver and officer
50-11-5812	1	Federal LPX53DS - NFPA LED light bar The Federal Legend Light Bar proposed approved at the preconstruction meeting

PART NO	QTY	DESCRIPTION
50-11-7600	1	Rear LED Signal Master warning lights Federal Signal SL85-A-50 with economy controller
50-11-9010	1	Rear beacons - Federal NVG10 LED (pr) - both red
50-12-5028	1	Front LED flashers (pr)-red Federal QL43-RR Located in chassis grille
50-12-5110	1	Price Adjustment
50-12-5218	1	Front side inter lts (pr)-red LED Federal QL43-RR Mounted in sides of chassis hood
50-12-5310	2	Body side inter lts (pr)-red LED Federal QL43-RR Located in rear fender well, one ahead and one behind the rear wheels each side
50-21-1505	1	Rear floods (pr) Unity LED Note that these lights are also used as rear step lights and cannot be managed Both lights are flood lights to meet ULC requirements Lights are switched on the light with an over ride switch in the cab.
50-21-2541	2	FRC telescoping SPECTRA LED 12V flood (ea) 1 each side back of cab Switched on lighthouse OK to load manage
50-21-3050	2	Go Light white with wireless remote LED Remote mounted on console Light mounted on forward portion roof of cab, right side & Left side OK to load manage
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Warning label in cab to read: "Do Not Move Apparatus when Light is on" Locate in overhead console above driver
50-21-5550	1	Equipment rack not stowed warning light Warning label in cab to read: "Do Not Move Apparatus when Light is on" Locate in overhead console above driver To warn when the telescoping lights are not stowed
50-21-8001	1	Step lights for body steps - 4" LED To illuminate when park brake applied
50-21-8110	1	Step lights for walkway - 4" LED To illuminate when park brake applied
50-21-8200	1	Step lights for chassis steps - LED marker type To illuminate when park brake applied
50-21-8600	1	LED clearance lts and reflectors
50-21-8605	1	Polished aluminum license plate holder on rear of body, with LED light

PART NO	QTY	DESCRIPTION
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-0800	1	Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr) Lights installed from top to bottomL Red Warning Red Brake/Tail Amber Turn White Backup Include rear step face mounted auxiliary brake/tail and turn lights due to Zico access ladder
50-31-1700	1	3000 Watt Power Inverter - 12 VDC to 120 VAC Powers two outlets in chassis cab 20-51-6100 Cobra Pro3000 Install within 10' of chassis batteries - behind the walkway on the LS under the speedlays in an enclosed compartment to protect from the weather Install after the ULC test. Install remote control in cab console
50-31-6600	1	Ground lighting (4" LED) - 2 door chassis
50-31-6630	1	Ground lighting (4" LED) - top mount body
50-35-0560	2	VHF antenna with base - commercial chassis Located on cab roof behind light bar
50-35-0560	1	Price Adjustment
50-35-0590	1	Cellular/TMR antenna with base - commercial chassis For customer supplied and installed radio, antenna wire routed to cab console with 2' of wire coiled in console. Located on cab roof behind light bar Antenna to be compatible with NL TMR - same as NB and NS
50-99-05AA	1	Kenwood Radio - capable of NXDN Format in VHF band Kenwood NX-3720 Nexedge Radio information sheet and programming information documents located in Basecamp job folder under "Other Information"
50-99-06AA	1	Price Adjustment
50-99-06SS	1	3M Peltor bluetooth headset Model MT15H7AWS6-WS programmed to work with radio to allow operation in cab and at pump panel. Mounted in the cab.
50-99-10AA	1	Price Adjustment
50-99-15AA	1	Siren TAP II feature - Steering Wheel horn button
60-10-1400	1	Single axle extruded aluminum body Sweep out Floors - 1" Lip Full width style body with integral suction hose tubes at the top each side
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4770	1	Removable stainless steel fender trim - single axle
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step Proposed rear step is 19" to be even with the rotating dump. Step depth approved

PART NO	QTY	DESCRIPTION
		at preconstruction meeting
60-10-6500	1	Bolt on extruded aluminum rub rail
60-11-0300	1	Front left side compartments full height
60-11-0700	1	Front right side compartments full height
60-11-1000	1	Rear left side compartments full height
60-11-1400	1	Rear right side compartments full height
60-11-2000	2	High side compartment (over 18") each
60-11-3100	1	No rear compartment
60-11-5500	2	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	4	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5530	1	Rollup door - to enclose pump panel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point To enclose top mount pump panel
60-11-5655	2	Amdor pull straps - Flex - HD (for door opening 20"-37")
60-11-5660	4	Amdor pull straps - Flex - HD (for door opening 49"-70")
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5000	1	Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction This ladder's side rails also serve as handrails, confirmed acceptable at preconstruction meeting
60-31-5500	1	Steps at rear of body (folding) Maximum height between steps is 18" Right side only due to 60-31-5000 ladder on Left side rear.
60-31-5610	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" Include an approx 30" handrail each side to access the walkway. Steps and handles to allow access to the storage area at the rear of the pump house so the monitor can be accessed safely for operation. See layout on 22918-19 Revision 3 for complete layout.
60-31-6500	1	Compartment matting - black plastic interlocking tile
60-31-8006	4	BA bottle compt (ea)-fender well Install forward and rear of each rear wheel in rear fenderwell panel. The standard SCBA tube dimensions are acceptable (same as job 21182)
60-31-8650	1	Sliding tray (ea) - 500 pound capacity with lock-in, lock-out sliding hardware Rear Left side for department supplied Portable Pump. Department to supply dimensions: Length - 28" Width - 33" wide tray, 28" wide pump

PART NO	QTY	DESCRIPTION
		Height - 26" high Photos of the pump provided, see photos in O:NL M24-22918photos, the tray is to be "L" shaped - layout to be approved by customer _____
60-31-9600	9	Adjustable shelf (ea) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1 - L1 Deep 1 - L1 Shallow 1 - L3 Shallow 1 - R1 Deep 1 - R1 Shallow 2 - R2 Deep 1 - R3 Deep 1 - R3 Shallow
60-32-3550	1	Two adjustable hose divider (each) Hand hold required in end
60-32-7500	1	Hose bed - aluminum 300' of LDH 600' of 2-1/2" 600' of 1-1/2" Maximum height from ground to floor of hose bed not to exceed 120"
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour - To match chassis Cab L0890EB
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted Wheels are equipped with 20-31-6000 stainless wheel liners.
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-1600	1	Price Adjustment
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Includes reflective Compartment numbers minimum 4" high red reflective lettering installed on cabinet doors in the right bottom corner as follows: L1 to be on left rear door and make its way to the front left door which will be L3 R1 to be on right rear door and make its way to the front right door which will be R3 LS walkway compartment to be labelled L4 RS walkway compartment to be labelled R4
60-33-3000	1	Reflective stripe - 4" white 50% of perimeter each side and rear, 25% of perimeter front
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Proposed chevron layout shown on the proposal drawing approved at the preconstruction meeting.

PART NO	QTY	DESCRIPTION
60-33-3520	1	Hose restraint - black webbing type - for main hose bed Hose bed tarp to be webbing style, permanently attached at the front partition. Fastened with velcro each side, quarter turn fasteners on rear corners, and velcro straps on the rear.
60-33-4620	1	Hose restraint - black webbing type - for speedlays Black webbing style, permanently attached at the bottom and velcro along sides with velcro straps and footman loops at the top
60-40-5000	2	Top mount hose tray (ea) integral with body One each side above the high side compartments with rear access door, integral with body for customer suction hose. Doors equipped with door ajar switches. Each hose is 12' long and 7" OD external lug to external lug.
60-40-5500	2	Suction hose tube (each) with door For 80-11-5000 6" x 10' long suction hoses, one tube to be longer to allow the 80-12-2500 suction strainer to be left on the hose Door equipped with door ajar switch
60-40-9000	1	Tube mount for ladders, with rear door Right side Rear Access For 24' 2 Section (80-14-0500) 14' roof (80-14-5500) Door equipped with door ajar switch
60-41-1015	2	Pike Pole tube in suction hose tube Locate in 60-40-5500 suction tubes
60-41-1500	1	Attic ladder tube with rear door Under Right Side Fender Top Door equipped with door ajar switch
60-91-0800	1	Swing out tool board Swing out tool board installed at half depth, punched in peg board pattern at 1-7/8" centres Locate in L2 compartment
60-99-05AA	1	Driver Side PPE Storage Arrangement Two SCBA brackets along with storage arrangements for 2 SCBA facepieces and 1 helmet, bunker pant, boots, and jacket shall be located in front left compartment. Provide a pullout tool board for the SCBA storage and a bunker compartment for additional gear.
INSTRUMENTATION		
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-1500	1	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
70-11-2000	1	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

PART NO	QTY	DESCRIPTION
70-11-20AA	1	Provide tarp over top mount pump panel Tarp attached permanently at the bottom, velcro along sides and top edges, and velcro straps with footman loops each side and top similar to M22-22368.
70-11-2500	1	Transverse walkway Include a shield between the cab and walkway
70-11-2600	1	Tread plate overlay on back of chassis cab
70-11-3000	1	Mansaver bars - 20" Changed to 20" due to telescoping floods on back of cab
70-11-3200	1	Colour coded tags
70-11-3500	1	Compartments in ends of walkway Final dimensions will depend on space available when chassis is received and design is complete. Compartment lighting, plastic tile, and door ajar switches will be provided
70-11-4506	1	Diamondback grip type panel hood step right side
70-11-4606	1	Diamondback grip type panel hood step left side
70-11-5110	1	Open storage at rear top of pump house Includes LED tube light switched with park brake and plastic tile. Drains provided to divert water below the plumbing
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18" Slot required for Primer level viewing
70-11-5600	1	Left side tread plate pump access door No opening dimension less than 18"
70-11-5700	1	Transverse tread plate pump access door No opening dimension less than 18" Note that speedlay trays will have to be removed to access the pump and plumbing.
70-11-7550	1	Heat pan - aluminum - cold weather type
70-11-8000	1	Heater in pump compartment
70-11-8200	1	Rubber seal around suction and discharge openings on side pump panels
70-20-1120	2	4-1/2" compound gauge - dual face 0-400 Thuemling brand
70-20-2170	8	2-1/2" pressure gauge - dual face 0-400 - Thuemling brand
70-20-2500	1	Primer control
70-20-3100	1	Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3500	1	Electric water level gauge on pump panel, Class One
70-20-3500	3	Price Adjustment
70-20-3610	1	Remote PSTANK water level indicators each side, rear with driver Interlock with park brake so powered only when the park brake is set. PSTANK confirmed acceptable at preconstruction meeting
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	Heat exchanger control valve

PART NO	QTY	DESCRIPTION
70-21-1600	1	<i>Electric Foam Level gauge not required</i>
70-21-5500	1	<i>Panel readout for Battery Conditioner</i>
		ACCESSORIES
80-11-5000	2	<i>6" x 10' lightweight suction hose (ea)</i> Mounted in 60-40-5500 suction tubes under T of tank
80-12-2500	1	<i>6" barrel strainer</i> To be preconnected on one 80-11-5000 suction hose
80-13-0500	1	<i>Rubber mallet</i> Mount on forward wall of LS rear compartment with 80-13-0510 PAC bracket
80-13-0510	1	<i>PAC Toolok bracket 1003-HD-Y for mounting rubber mallet</i> P/N1562258, model#1003-HD-Y
80-13-1100	2	<i>Hose wrenches (triple) with holder</i> One set mounted on forward wall of LS rear compartment One set shipped loose
80-13-1500	1	<i>Bar with bracket</i> Mount on 60-90-0800 tool board
80-13-2200	1	<i>Pike pole, fibreglass handle - 8' long</i> Tube mounted in 60-41-1015
80-13-2500	1	<i>Pike pole, fibreglass handle - 10' long</i> Tube mounted in 60-41-1015
80-13-3500	1	<i>Axe, pick head, wooden handle and bracket</i> Mount on 60-90-0800 tool board
80-13-3600	1	<i>Axe, flat head, wooden handle and bracket</i> Mount on 60-90-0800 tool board
80-14-0500	1	<i>24' 2 section extension ladder PEL 24</i> Mounted in 60-40-9000 tube
80-14-5500	1	<i>14' aluminum roof ladder PRL-14</i> Mounted in 60-40-9000 tube
80-14-8500	1	<i>10' aluminum folding attic ladder FL-10</i> Mounted in 60-41-1500 tube
80-17-0500	1	<i>20# dry chemical fire extinguisher and mount</i> Mount on the shallow adjustable shelf in LS rear compartment
80-17-1500	1	<i>2 gallon water extinguisher with mount</i> Mount on the shallow adjustable shelf in LS rear compartment
80-18-0500	2	<i>SCBA bracket with strap - compt mount</i> Mounted in L1 as determined in 60-99-05AA
80-19-0550	2	<i>Yellow urethane wheel chock, ULC compliant</i>

PART NO	QTY	DESCRIPTION
80-20-0000	1	<i>NFPA Pumper Equipment List</i> Only the equipment listed in this shop order will be provided, all other NFPA required equipment will be supplied and installed by the Fire Department. A listing will be provided to Metalfab prior to the ULC test as required by ULC.
80-20-3000	2	<i>Portable hand light with charger Streamlight Survivor</i> Mount on top rear of console in cab behind the storage door 12 volt charger unless otherwise specified
80-20-3500	1	<i>First Aid Kit</i> Mount under passenger seat in cab
80-20-4000	2	<i>Double female adapter 2-1/2" PYROLITE</i> Mount on 60-90-0800 tool board Requires a 1562739 PAC 1042-2 adapter lock for each adapter
80-20-4500	2	<i>Double male adapter 2-1/2" PYROLITE</i> Mount on 60-90-0800 tool board Requires a 1562739 PAC 1042-2 adapter lock for each adapter
80-20-5000	2	<i>Salvage Cover 12' x 14'</i> Ship loose
80-20-5015	2	<i>Helmet holder - mounted (ea) - Zico UHH-1</i> Mount in the front LS compartment
80-20-5020	8	<i>Traffic Cone (ea) - 28" with reflective collars - shipped loose with apparatus</i>
80-99-05AA	1	<i>6" F to 4" Storz 30 degree adapter</i> Mount on the LS suction, ship the 6" long handle cap loose 6" female thread is NH to match pump large intake. Storz cap provided.
80-99-10BB	1	<i>Elkhart Stinger 2.0 8297-25 deck/portable monitor</i> Elkhart 8297-25 upper monitor with lower portable base with customer thread on the inle swivels (2 x 2-1/2") Include truck mount 3" NPTF x monitor Include CSW-L master stream nozzle with spring loaded selector for 350-500-750-1000-1250 GPM Ground base shipped loose
80-99-15AA	1	<i>1-1/2" Nozzle Holder</i> See photos in O:NL M24-22918photos for the nozzle to be mounted
80-99-20AA	1	<i>2-1/2" Nozzle Holder</i> See photos in O:NL M24-22918photos for the nozzle to be mounted
80-99-25AA	1	<i>TFT Blitzfire Nozzle</i> TFT Blitzfire Nozzle or equal with a TFT Max- Force nozzle or equal. To be provided with mounting bracket to be installed by the customer after delivery.