



Shop Order

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

The Corporation of the Township of Muskoka Lakes
 Finance Department Township of Muskoka Lakes
 1 Bailey Street
 Port Carling, ON P0B 1J0

Sales Rep: Gordon Green Metalfab Ltd.	Terms: Chassis Net 10 days, Body and Equipment COD
Drawing #: FT-11117 Est. Delivery Date: / / Customer PO #: 19671 Customer #: 1560 QPF #:	Penalty: None

Quote No: JMUON-0025
Job/Order No: 20584
 11/26/2019

PART NO	QTY	DESCRIPTION
	1	== Metalfab Pumper - ULC 05/13 - 0.000 ==
	1	Change Order H
00-10-1500	1	Metalfab Pumper E
00-20-1000	1	Company Profile E
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
00-20-2100	1	Plant Inspection Visits - CCEV
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	1	GENERAL INFORMATION
10-11-0000	1	Intent E
10-11-0110	1	Vehicle data recorder included with chassis
10-11-1100	1	ULC S515-13 Compliance
10-11-1102	1	ULC S515-13 and NFPA 1901-2016 compliance SOPT 1145
10-11-1500	1	ULC Testing - Pumper Customer confirmed that pump is tested to 5000 Litres per minute on 02.12.2019.
10-11-2100	1	Maximum length - removed to meet preferred compartment layout. The overall length restriction has been removed to allow the desired compartment layout.
10-11-2200	1	Maximum height - 10' - 8" or 128"
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-2600	1	Preconstruction Meeting at Fire Department by CCEV
10-11-3000	1	Manuals - two copies Two (2) copies of manuals are provided. Chassis manuals are those supplied by the chassis manufacturer. Digital manuals are acceptable. Initial online access to Freightliner Cummins Quick Serve online portal with applicable connection hardware and software and minimum one-year subscription.

PART NO	QTY	DESCRIPTION
10-11-3600	1	Delivery - FOB Fire Department - by CCEV Delivery to: Township of Muskoka Lakes 1 Lee Valley Drive Port Carling, ON
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD
10-20-1400	1	Hose capacity exceeding ULC/NFPA requirements Each 1-1/2" speedlay will carry 200' of 45mm hose The 2-1/2" speedlay will carry 200' of 65mm hose The hose bed will carry: 600' of 100mm supply hose 600' of 65mm attack hose ***Extra weight allowance of 412 pounds.***
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper This vehicle is designed to carry the standard ULC miscellaneous equipment load of 2000 pounds.
	1	CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - Freightliner M2 106 Tandem 64,740 lb GVW 18,740 lb front axle 46,000 lb rear axle 224" wheelbase 158.45" cab to axle Cummins L9 350 HP @ 2000 rpm 2200 governed rpm 1000 lb/ft torque at 1400 rpm 320 Amp alternator Allison 3000 EVS automatic transmission, 6 speed LH/RH PTO openings 1350 cu in auxiliary air tank 189 liter fuel tank, LH LED head lights No rear window Safety kit ESC L0006 CB white over L2225 EB Red Paint line to match previous units A grease/lubrication system is included with the chassis.
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - ON by CCEV
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate Customer confirmed that pump is tested to 5000 Litres per minute on 02.12.2019.
20-21-1000	1	Maximum riders sign - 2 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1520	1	Helmet warning label - do not wear helmet
20-21-1540	1	Tire Pressure Indicators - Tandem Axle The stems must be visible for every tire from the outboard side so 180-degree extensions (1580768) will be required for four (4) tires SOPT #19 - truck specific
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 ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"

PART NO	QTY	DESCRIPTION
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required E
20-21-3500	1	Rear step warning label
20-21-3810	1	Front mudflaps provided with chassis E
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 painted white over red by chassis OEM
20-31-7500	1	Console in cab Install switch panel (50-11-0900), siren (50-11-1460), controller for the traffic advisor (50-11-6616) , and PTO shift for pump (30-50-1500) in console. There will be a cutout for a customer supplied radio (XPR 5000 that measures 2.1" x 6.9"). The DIN mount for the radio arrived 05.15.2019. Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish. Console to match M16-18977.
20-31-7505	1	Rubber glove box dispenser There will be a rubber glove box dispenser installed in the rear of the console area towards the officer position
20-41-0600	1	Intake air shutoff for engine not required
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT
20-41-1500	1	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.
20-41-1900	1	Battery boost terminals with chassis E
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
20-41-5010	1	Rear Tow Hooks - through rear of body E *** Flat bar tow hooks below swivel dump.
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-6200	4	120 volt 20 A shore line connection in chassis cab Standard 5-20R duplex receptacle in chassis cab, not fused 1 - Chassis console 20-31-7500 2 - Beside the Kussmaul battery conditioner in L1 - see pic 6490 under M16-18977) 3 - L4 compartment - Back wall towards the front of the compartment under the shelf. 4 - R2 compartment - upper right area of the compartment
20-51-6501	1	Special Battery Charger - Kussmaul EV 40 with single display Kussmaul #445-5265-0 Located in the upper area above the pump operators panel in L1 compartment and plugged into the shore power outlet in that location. The display is to be located on the left side pump panel for easy viewing. SOPT in file
20-51-6700	1	Kussmaul Auto Pump 120 V compressor with Auto drain Kussmaul #091-9B-1-AD Located in the upper area above the pump operators panel in L1 compartment and plugged into the shore power outlet in that location. Auto drain to be plumbed through the back wall to atmosphere. See pic 6490 under M16-18977)

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20-51-68AA	1	Guard over Kussmaul charger and compressor A shield shall be provided above the charger and compressor in L1 to provide water / slush / debris from the roll up door (when open) from contaminating the units. SOPT in file
20-51-7101	1	Electric System Management - done by VMUX
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Located in left side cab step area
20-51-8500	1	Engine compartment light Switched when park brake is applied
20-51-9001	1	Air horns on cab hood, controlled by foot switches as supplied by chassis OEM (2) LH and RH foot switched with dash switch for horn button to control air horn, default to electric <85 psi.
20-52-0010	1	Air horn control on pump panel There will be an air horn control installed on the pump panel and it shall be labeled "AIR HORN". SOPT 475
20-52-3500	1	Chassis steering wheel lined up by Metalfab E
20-60-0400	1	Chassis wheelbase does not change
20-90-1810	1	Extend air tank moisture ejectors to rubrail and tag The cables for the air tank drains will be run to the rub rail and there will be a tag installed on the rub rail as approved by customer 02.12.2019 SOPT 507
20-99-0015	1	Stud block in console - 4 terminal, 20 Amp match previous truck - see M16-18977 - pic 5061 There will be a 4 terminal, 20 Amp stud block (1130437)supplied and installed in the console 20-31-7500 SOPT 1030
20-99-0020	1	Supply and install driving lights in front bumper (pr) The driving lights under the bumper (with chassis) will be relocated to the center bumper opening. There will be a control switch in the console 20-31-7500 SOPT 548
20-99-0025	1	Power bar for inverter Provide a 6 outlet power bar plugged into the inverter. The power bar shall be installed vertically on the back face or side of the console 20-31-7500 SOPT 1072
20-99-05AA	1	Rear View Safety B/U heated camera There will be a Rear View Safety RVS-770812N with 7" monitor and heated camera installed on the unit. Monitor to be located in center overhead console area. SOPT in file
	1	PUMP AND PLUMBING
30-11-3002	1	Waterous CXVPA 1250 PTO driven pump - 1050 IGPM tested at 5000 L/min The pump will be tested at 5000 L/min
30-15-0304	1	Plumbing - non manifold pump SM SS E
30-20-0501	1	Valves and controls - compartment mounted panel E
30-20-1002	1	Akron valves specified
30-20-1620	1	Piping stainless steel - non manifold Pumper
30-20-1700	1	1-1/2" thread specifications - NPSH

PART NO	QTY	DESCRIPTION
30-20-1800	1	2-1/2" thread specifications CSA
30-20-2000	1	Piping hydrostatic test
30-20-2510	1	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.
30-21-8515	1	4" Akron air actuated tank to pump, SS A 4" Akron air actuated valve with check valve to prevent accidental pressurization of the water tank through the pump connection is installed in the supply line from the tank to the pump. There will be a visual indicator to show the position of the valve at all times. SOPT 832
30-22-0520	1	Tank Fill valve 2" SS
30-31-4020	1	Suction - 6" not gated each side SS non manifold pump 6" header Have enough room to allow the installation of a customer supplied TFT AB8NX-NX valve - will be recessed into the panel so it doesn't stick past the body.
30-31-5100	1	Suction - 4" SS piping to rear - electric control - 6" connection, bleeder 4" piping to rear to terminate with 4" NPT thread. A 4" NPT female x 6" NH male CP adapter with screen will be installed along with a 6" LH cap. Bleeder shall be located at rear. Will match previous unit M16-18977.
30-31-7210	1	Waterous master intake suction valve - electric control *** Suction to be gated is rear intake - control is on the left side pump panel.
30-32-7550	1	Suction - 2-1/2" left side SS, bleeder, non manifold pump Control at the valve.
30-32-8050	1	Suction - 2-1/2" right side SS, bleeder, non manifold pump Control at the valve.
30-40-2006	1	4" right discharge, plumbed 3", non manifold pump
30-41-2040	1	2-1/2" RS discharge SS, bleeder, non manifold pump
30-41-2540	2	2-1/2" LS discharge SS, bleeder, non manifold pump
30-43-1520	1	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder ***The rear discharge will be on the Left side as low as possible over the rear suction.
30-44-0720	2	1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" Each speedlay to have capacity of minimum 200' of 1.75" hose and nozzle. Speedlay trays are oriented side by side, rear of the 2.5" speedlay as shown the proposal drawing. The swivel connection is to be outboard as much as possible - one (1) each side. Each speedlay will slide on UHMW and is removable. Trays are fabricated from aluminum plate. Hose rollers are installed around the speedlay openings at the front next to the cab (one vertical) and at the bottom (one horizontal). There is no vertical roller next to the body. The bottom hose roller will be located in such a way to help hold the speedlay tray in place.
30-44-0740	1	2.5" speedlay, Akron, SS with removable tray Hose storage capacity will be 200' and will be located ahead of the 1.5" speedlays. The swivel connection will be on the right side as close to the outside as possible. Aluminum tray that slides on UHMW One common horizontal roller under all 3 speedlays, One roller towards the cab (none required towards the body)
30-44-08AA	1	Price Adjustment
30-44-6520	1	Piping for monitor SS, plumbed 3", bleeder Located in area ahead of water tank at or near centerline of body for monitor and riser 80-99-15AA The riser pipe shall be adjusted so that the monitor/ nozzle will reside below the top of

PART NO	QTY	DESCRIPTION
		the truck when in the stowed position. There will be a rubber gasket around the pipe opening to the pump module to seal the opening. Bleeder valve on left side pump panel.
30-51-0400	1	Pump shift - PTO ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. ***Indicator lights in cab will be located in drivers side overhead console over drivers seat. Pump and roll will not be used on this unit - disable prior to delivery if present to match previous unit 19725
30-51-1500	1	Power shift PTO - Automatic transmission To drive pump
30-51-1501	1	PTO driveshaft E
30-51-6700	1	FRC Pump Boss Governor/Throttle engine display Display shall be Metric with preset for 700 kpa and 1100 RPM
30-51-7002	2	Suction side relief V/V, non manifold pump One for the main pump One for the 6" rear suction inlet
30-51-7712	1	Trident Air Primer 3 barrel 2 location Primer plumbed to the pump and outboard of the Master Intake Valve for the rear suction.
30-51-7720	1	Additional air tank for air primer system An additional air tank is provided to improve air primer capacity ***Ordered with the Freightliner chassis***
30-51-8100	1	Heat exchanger included with chassis
30-51-8500	1	Pump cooler with control valve, check valve
30-51-90AA	1	Waterous Thermal Relief Valve (OPM) Part number 1542007 Mounted on left side operators panel SOPT 844
30-52-1002	1	Air operated master drain Class 1 103005 Master drain (1550449) with panel mounted air switch. ***Drain is normally open - closed by air pressure
30-52-3001	1	Foam system not requested E
	1	WATER AND FOAM TANKS
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-7000	1	Tank capacity 2000 Imperial Gallons
40-21-1000	1	4" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	1" water level gauge connection
40-23-1050	1	4" Fireman's Friend connection
40-23-1060	1	10" Newton dump connection
40-30-0400	1	3" plug in sump box
40-30-1100	1	Water Fill Box middle left side
40-31-4500	1	10" rear Newton dump, painted steel
40-31-4700	1	Newton dump, top mount manual operation, painted steel Lock open device is required

PART NO	QTY	DESCRIPTION
40-31-5000	1	Newton dump - 36" telechute painted steel
40-31-5600	1	Rotating dump chute for Newton dump painted steel
40-31-5800	1	Support for rotating dump chute if necessary Engineering to determine if this support is required
40-31-59AA	1	Dump valve shield - not painted, buffed aluminum There will be a dump valve shield installed between the body and the tank in the dump valve opening. SOPT - truck specific
40-31-9000	1	4" Storz rear fill, Fireman's Friend Include bleeder
40-31-90AA	1	MC Panel gauge heater on direct tank fill There will be a Series 5000 Panel gauge heater installed on the direct tank fill plumbing to prevent freezing.
	1	ELECTRICAL
50-11-0300	1	Base electrical system - multiplex E
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 - Controlled by Master -LIGHT BAR CLEAR - Controlled by Master -FLASHING WARNING - Controlled by Master -Left scene -Rear scene -Right scene -Driving Lights -Front LS Teelight -Rear LS Teelight -Front RS Teelight -Rear RS Teelight -Horn Ring transfer -Mini Water Level gauge (70-99-20AA) The order of the switches was approved 02.12.2019. The reference to the switch for a Green Flasher was removed 10.23.2019 where there is no Green Flasher on this unit (removed on Change Order C)
50-11-1460	1	Federal EQ2B 200 watt siren Located in cab console 20-31-7500
50-11-1631	1	Siren speaker, 200 watt for EQ2B, in front bumper The cutout will be on the Left side and the bumper material around the cut to be treated to prevent rust or corrosion.
50-11-2600	1	Siren to be accessible to driver and officer
50-11-3500	1	Horn ring transfer switch The steering wheel horn button shall be used to activate both the chassis horn and the siren. There shall be a switch in the rocker switch panel that will act as a selector between which function the horn button will actuate.
50-11-6100	1	Whelan F4N0QLED LED light bar NFPA Additional 4 forward facing lights in the bar - Red, White, White and Blue. Alternating Red and White lights on the Driver's Side. Alternating Blue and White lights on the Passenger's Side. SOPT 42 in file with light bar proposed layout

PART NO	QTY	DESCRIPTION
		Customer to confirm light bar layout before ordering - WeCad was sent 03.15.2019 and approved 05.15.2019
50-11-6199	1	Opticom for Whelen F4N0QLED light bar There will be an opticom model 795H ordered with the Whelen F4N0QLED light bar 50-11-6100. SOPT 703 The opticom will be controlled with the Emergency Master switch and disabled when the Park Brake is applied as advised by Rod Harris by e-mail on 10.23.2019.
50-11-6616	1	Rear LED Traffic Advisor warning lights - flush mount TAM 83
50-11-8001	1	No Rear beacons
50-12-8000	1	Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25'
50-12-8520	1	Front LED flashers (pr)-Whelen LED C6 red left side/blue right side These lights shall flash alternate to each other. The layout will match their last Pumper.
50-12-8620	1	Rear LED flashers (pr)-Whelen C9 red left side/blue right side - upper corners These lights shall flash alternate to the opposing lower warning light in tail light module.
50-12-8710	1	Front side inter lts (pr) - Whelen LED C6 - both red
50-12-8810	1	Body side inter lts (pr)-Whelen LED C6 - both red
50-12-8820	2	Body side inter lts (pr)-Whelen C9 - both red - upper corners
50-21-2540	4	FRC telescoping SPECTRA LED 12V flood (ea) There will be one pair installed at the front of the body at the pump module. They will be installed so the light head is below the apparatus body and stainless steel plates will be installed if the light head can hit the body. There will be one pair installed at the rear of the body. They will be installed so the light head is below the apparatus body and stainless steel plates will be installed if the light head can hit the body. The lights will be wired to the equipment rack not stowed circuit to show when they are not stored. Switched on switch in cab only. FRC #SPA530-Q15-SW-NS-SR These lights can be managed.
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light 2" round light located in overhead console over drivers seating position Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-5550	1	Equipment rack not stowed warning light 2" round located in overhead console over drivers seating position Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" For the HLAS and the Telescoping lights
50-21-8001	1	Step lights for body steps - 4" LED Switched when park brake is set.
50-21-8200	1	Step lights for chassis steps - LED Switched when park brake is set. SOPT 194a
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-075A	1	Whelen M6 LED tail light assembly M6FCV4 The low level flashers will be red on the right side and blue on the left side.

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		These lights shall flash alternate to the opposing upper warning light. SOPT 1093
50-31-6021	1	Left side Scene light (pr) Whelen C9SL Located in upper corners beside the flashing lights. Switched in cab The lights can be managed to shed SOPT 39c
50-31-6022	1	Rear scene light (pr) Whelen C9SL Located in upper corners under the flashing lights. Switched in cab and when transmission is in reverse gear. The lights cannot be managed to shed - required for ULC SOPT 39c
50-31-6023	1	Right side scene light (pr) Whelen C9SL Located in upper corners inboard of the flashing lights. Switched in cab The lights can be managed to shed SOPT 39c
50-31-6550	1	Ground lighting (LED Lumabar) - 2 door chassis Switched when park brake is set.
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body Switched when park brake is set.
50-35-0500	1	Installation of customer supplied mobile radio equipment Radio information list required Metalfab will install Motorola XPR 5000 DIN mount that arrived at Metalfab 05.15.2019. This will be installed in the console 20-31-7500.
50-35-0559	1	Mobile radio antenna provided by customer Install the antenna base and power cord that Carrier supplied 05.15.2019. There is a second antenna that will be returned with the completed unit.
50-99-05AA	1	Push button at officer side for EQ2B Siren activation Right side for activation of the siren by the officer will be a push button on the console. SOPT in file
50-99-06AA	1	Stainless Steel scuff plates for Telelight heads There shall be a stainless steel scuff plate behind the head of each telescopic flood light to prevent chipping of the paint. SOPT in the file
50-99-10AA	1	1500 Watt Inverter in/on cab console A 1500 inverter (1031847) shall be provided in the chassis cab, mounted on the rear of the console. Installed after ULC test Power bar 20-99-0025 will plug into this inverter. SOPT 405a - truck specific
50-99-11AA	1	Hose bed cover lights - 40" Lumabar Switched when park brake is set. SOPT 209
50-99-20AA	1	LED Lighting for rear steps/platform (s) Switched when park brake is set. SOPT 307B

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51-31-4500	1	Dielectric strength test for line voltage system A Dielectric test will be done after the ULC test for the Inverter 50-99-10AA.
	1	BODY
60-10-1600	1	Tandem axle extruded aluminum body
60-10-1688	1	Right side of body to have porta tank rack inset SOPT in file
60-10-3088	1	Notch in left side of body for HLAS SOPT 1200
60-10-40AA	1	Inset step below the hose bed - Approx 8" deep above traffic advisor SOPT in file
60-10-4100	1	No "beavertail" rear step supports
60-10-4510	1	Aluminum tread plate fender surround - tandem axle The fender well area will be aluminum thread plate.
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback rear step - approx 19"
60-10-6500	1	Bolt on extruded aluminum rub rail E
60-11-0300	1	Front left side compartments full height E
60-11-0700	1	Front right side compartments full height E
60-11-1000	1	Rear left side compartments full height Compartment to be 42" wide.
60-11-1100	1	Rear right side compartment to top of wheel well Compartment to be 42" wide.
60-11-2000	2	High side compartment (over 18") each Will be mounted on the left side of the body above the rear wheels. One each side of the Zico HLAS
60-11-3100	1	No rear compartment E
60-11-5500	3	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point The standard doors will be installed on L2, L3 and R2 compartments.
60-11-5520	3	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5655	2	Amdor pull strap - High side compartments L2 & L3 Order with doors SOPT 1114
60-11-5660	3	Amdor pull strap - Full height compartments L1, L4 & r1 Order with doors SOPT 1114
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5500	1	Steps at rear of body (folding) with integral LED lights LED lighted folding step with Gasket. Maximum height between steps is 18".
60-31-6500	1	Compartment matting-Interlocking tile
60-31-8003	4	Double SCBA Cylinder storage compartment in rear fender (ea) Stainless steel doors.

PART NO	QTY	DESCRIPTION
		<p>Webbing cylinder restraints. Door ajar switch required. SOPT 1023 There will be a 2" red reflective label "O2/RIT" on the forward tube on the LS. Part # CPI # AD2002-21P-A</p>
60-31-8400	1	<p>Fixed vertical partition Install in the L1 compartment to protect the pump panel linkages and allow the rest of the compartment to be used for storage.</p>
60-31-8800	3	<p>Sliding tray (ea) - 600 pound capacity Customer to specify location of slide out trays; Tray #1 - Bottom of L4 compartment Tray #2 - Bottom of R2 compartment Tray #3 - Bottom of R1 compartment ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open</p>
60-31-9600	5	<p>Adjustable shelf (ea) Customer to specify location of shelves and if shallow or full depth; Shelf #1 - L1 below PAC board Depth - full Shelf #2 - L4 Depth - shallow as requested by Rod Harris by e-mail on 11.01.2019 Shelf #3 - L2 Depth -shallow Shelf #4 - R1 Depth - full Shelf #5 - R1 Depth - shallow Reflective stripe is applied on the exposed edge for visibility when the compartment door is open</p>
60-32-3550	1	<p>Two adjustable hose divider (each) and one fixed to support hose bed covers Hand hold required in end</p>
60-32-7500	1	<p>Hose bed - aluminum The hose bed will carry: 600' of 100mm supply hose 600' of 65mm attack hose</p>
60-33-0000	1	<p>Paint exterior - Imron Elite *** Paint code and colour red to match cab</p>
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	<p>Lettering - Customer supplied decals, T4 and 911 decals The lettering installed will be: Customer supplied decals T4 and 911 decals to match previous units Include 2" Red reflective "O2/RIT" on officer side forward SCBA storage tube door. Approval drawing has been received</p>
60-33-3300	1	<p>Reflective stripe - 4"-1" with elongated stripe (hockey stick) on front compt 50% of perimeter each side and 25% of perimeter front. The spacing will be 4", 1" separation below and 1" stripe.Red on the roll up doors and white on the body and chassis cab to match previous units Customer approval drawing received</p>
60-33-3310	1	<p>Reflective stripe - red and yellow chevron at rear Printed on 3M Scotchlite To match M17-19725</p>

PART NO	QTY	DESCRIPTION
60-33-3600	1	Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door
60-33-4000	1	Tarp at ends of speedlays - black The tarps shall be fully removable and secured with quarter turn fasteners across the top of the opening and Velcro straps through two (2) each side, chrome footman loops.
60-33-5000	1	Aluminum cover over hose bed with end tarps - black Door ajar switches required. The rear flap shall be secured using Velcro straps looped through four (4) chrome footman loops. The location of the footman loops will be determined by the fire department at the final inspection.
60-40-5500	4	Suction hose tube (each) with door Two (2) in the body for 6" x 10' suction hoses 80-11-5000. These doors will be smooth painted with lift and turn latches. Door ajar switches required and stainless steel scuff plates around the tube opening. Two (2) in the hose bed for customer supplied 4" suction hoses. These tubes will have a common aluminum tread plate door with a lift and turn latch. Door ajar switch required. 4" suction hose size: Lenght: 120" Dimension of the fitting at the widest part: Longue handles
60-41-1015	2	Pike Pole tube in suction hose tube In the tubes for the 6" suction hose only - these tubes will house the 10' pike pole 80-13-2500 and the 6' pike pole 80-13-2510.
60-41-6001	1	Zico hydraulic portable tank rack Right side for the Metalfab supplied 2100 Imperial Gallon porta tank 80-15-1005. To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.
60-41-6010	1	ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - right side
60-41-6110	1	Painted plate on exterior of Zico PTS The porta tank rack will be covered with an aluminum plate painted job color.
60-41-7100	1	Tread plate on body behind porta tank rack
60-41-9500	1	Zico Horizontal Ladder Access system Located on left side Include HLAS-OS optional stop To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. The ladder rack will be nestled beside the hose bed and will not be the highest part of the body. It will carry the 80-14-0500 24' 2-section, 80-14-5500 14' roof and 80-14-5800 10' attic ladder.
60-41-9510	1	ZICO HLAS switched at rear above tail light Switch is located on same side as electric rack - left side
60-91-0900	3	Top mount "coffin" compartments Two (2) right side outboard of hose bed One (1) over speedlays Each coffin compartment shall have a deck plate door, lighting and door ajar switched required in all coffin compartments. SOPT 625 Coffin compartments to be constructed as stand alone units, not just holes in the top of

PART NO	QTY	DESCRIPTION
		the body.
60-91-1000	1	Aluminum corner guards There will be aluminum corner guards installed on the front corners of the body to protect from the speedlays from damaging the paint.
60-99-0100	1	Mesh swing out tool board and back panel To match 60-99-20AA on M18-19725, single panel with back wall mounted panel, mounted midway in compartment depth with 1/3 solid panel. Includes flashing lights and reflective stripe.
60-99-25AA	2	PAC tool mounting board On back wall of L1 rearward of fixed partition - upper shallow part of compartment only R1 left of pump panel door from the body back to the same height as the access door. SOPT 624
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-10AA	1	Linkage controls in left front compartment Linkage controls with the exception of the 2-1/2" suction inlets will be located in the front left side compartment. SOPT 847
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
70-11-3200	1	Colour coded tags All markings will be in metric
70-11-4000	1	Stainless steel side panel hood right side w/Lumabar There will be LED Lumabar installed under the hood.
70-11-4100	1	Stainless steel side panel hood left side w/Lumabar There will be LED Lumabar installed under the hood.
70-11-5500	1	Right side pump access Located in R1 compartment on back wall. Door will be smooth plate with buffed finish to match compartment finish No opening dimension less than 18"
70-11-7500	1	Heat pan-aluminum
70-11-8000	2	Heater in pump compartment There will be two (2) pump house heaters installed to match previous unit.
70-20-0500	2	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge. The scale will be 0-400.
70-20-1500	9	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control. The scale will be 0-400.
70-20-2500	1	Primer control For the main pump and plumbing
70-20-2501	1	Additional Primer control For the rear suction pre-prime
70-20-3200	1	FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.

PART NO	QTY	DESCRIPTION
70-20-3510	1	Electric water level gauge on pump panel and at rear, Class One
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	Heat exchanger control valve
70-20-7600	1	Pump cooler control valve
70-21-2100	1	PTO Hourmeter Located on pump operators panel in L! (to match previous units)
70-21-5500	1	Panel readout for Battery Conditioner Install on left side pump panel
70-99-20AA	1	Mini water level gauge in chassis cab SOPT 251
	1	ACCESSORIES
80-11-5000	2	6" x 10' lightweight suction hose (ea) Tube mounted
80-12-2500	1	6" barrel strainer Shipped loose, not mounted. Customer will mount.
80-13-0500	1	Rubber mallet Shipped loose, not mounted. Customer will mount.
80-13-1100	1	Hose wrenches (triple) with holder Shipped loose, not mounted. Customer will mount.
80-13-1200	3	Clare hose wrenches (double) with holder Shipped loose, not mounted. Customer will mount.
80-13-2500	1	Pike pole, fibreglass handle - 10' long The pike pole will be 10' and be tube mounted.
80-13-2510	1	Pike pole, fibreglass handle - 6' long Tube mounted
80-14-0500	1	24' 2 section extension ladder PEL 24 Stored on HLAS
80-14-5500	1	14' aluminum roof ladder PRL-14 Stored on HLAS
80-14-8500	1	10' aluminum folding attic ladder FL-10 Stored on HLAS in 80-14-9000 attic ladder brackets
80-14-9000	1	Attic ladder bracket (Zico) Bolted to the HLAS
80-15-1005	1	2100 l gallon portable tank - Husky A Husky 2100 Imperial Gallon porta tank with yellow liner, dual drains and handles on the bottom will be supplied and installed in the porta tank rack 60-41-6001
80-15-6500	1	6" external suction butterfly valve Shipped loose, not mounted. Customer will mount.
80-19-0500	2	Large folding wheel chock - aluminum (ea) Shipped loose with no storage brackets supplied.
80-99-05AA	2	Zico UHH-1 helmet holder (ea) - mounted A brushed aluminum plate shall be installed on the upper back wall of the chassis cab

PART NO	QTY	DESCRIPTION
		<p>between the driver and officer seats. The plate shall be large enough to provide a suitable mounting surface for the helmet holders. Two (2) Zico UHH-1 helmet holders shall be provided and installed. SOPT 426</p>
80-99-15AA	1	<p>TFT Hurrigan Remote Controlled Monitor One (1) monitor and nozzle shall be supplied and installed on the completed apparatus as per 30-44-6520; One (1) TFT Hurricane remote controlled monitor (XFIH-EL1A). ***Monitor outlet thread to be CSA thread*** One (1) TFT Panel Mount Monitor Operation Station with tether (Y4E-CT-30). One (1) TFT Master Stream 1250 ER Nozzle (M-ERP1250SNJ). ***Swivel on nozzle to be CSA thread*** Ordered with CSA threads. One (1) TFT 3" Remote controlled telescoping waterway (XGA38VL-RL) with bracket set (XGB-33). ***Nozzle swivel and monitor outlet to be 2-1/2" CSA thread*** Engineering to confirm all part numbers before ordering.</p>