



Shop Order

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

Canton de Champlain Township
 Paula Knudsen
 948 Pleasant Corner Road East
 Vankleek Hill, ON K0B 1R0
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Sales Rep: Drawing #: FT-10879 Est. Delivery Date: / / Customer PO #: 16015 Customer #: 1560 QPF #:	Terms: Chassis, Body and Equipment Net 30 days Penalty: None
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Quote No: GCHON-0009
Job/Order No: 19557
 09/11/2017

PART NO	QTY	DESCRIPTION
	1	== Metalfab Pumper - ULC 05/13 - 0.000 ==
	1	CHANGE ORDER D
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
00-20-1700	1	Hale 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 Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2008
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	1	GENERAL INFORMATION
10-11-0000	1	Intent E
10-11-0105	1	Vehicle Data Recorder not requested E
10-11-1100	1	ULC S515-13 Compliance
10-11-1500	1	ULC Testing - Pumper
10-11-2100	1	Maximum length not specified E
10-11-2200	1	Maximum height not specified E
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 manuals are required.
10-11-3600	1	Delivery and Orientation by Carrier Centers
10-11-4300	1	Payment Terms - Chassis and Body NET 30
10-20-1000	1	Hose bed capacity - standard ULC Pumper
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
	1	CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - M2 106 2 door 62,000 lb GVW 16,000 lb Front axle 46,000 lb Rear axle 229" Wheelbase, 163.45" (approx.) Cab to Axle, 103" rear frame overhang Cummins ISL 350hp @ 2000 rpm, 2200 rpm governed, 1000 lb/ft torque @ 1400 rpm

PART NO	QTY	DESCRIPTION
		Allison 3000 EVS automatic transmission, 275 Amp alternator
		189 liter fuel tank
		Steel wheels
		ESC
		L0214 EB Red Elite BC
		April 17 - changed air horn actuation to outboard lanyard, one each side rather than foot switches
		Added power windows, disable power door locks
		Enable 6th gear - manually selectable
20-11-1500	1	2013 Emission chassis modifications
20-11-1600	1	Chassis Motor Vehicle Inspection not required
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1010	1	Maximum riders sign - 3 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
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"
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 FL Code 586-024
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-0500	1	Alum tread fuel tank trim, Conv - 2 door Vertical trim only, OEM cab steps remain
20-31-1900	1	Chassis cab painted by chassis OEM
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 ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel. Chassis transmission programmed as a 6 speed by chassis OEM
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 On frame by starter - FL Code 295-029
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
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks through back of body above rear step (2)
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis

PART NO	QTY	DESCRIPTION
20-51-2600	1	Back up alarm
20-51-3400	1	Protection valve installed for air operated accessories
20-51-4000	1	Auto eject for air inlet - LS Located on left pump panel
20-51-6500	1	Kussmaul Autocharge 1000 battery conditioner w/battery saver
20-51-7100	1	Electric System Manager
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Located on left pump panel
20-51-8500	1	Engine compartment lights (pair) One required each side to light up complete engine compartment To meet ULC
20-51-9001	1	Air horns on hood controlled by lanyard each side - chassis OEM
20-52-3500	1	Chassis steering wheel lined up by Metalfab E
20-52-4000	1	Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab mounted in or on dash where space permits
20-60-0400	1	Chassis wheelbase does not change
	1	PUMP AND PLUMBING
30-11-3800	1	Hale DSD midship pump - 1050 IGPM
30-15-0304	1	Plumbing - non manifold pump SM SS E
30-20-0500	1	Valves and controls - side mount panel
30-20-1003	1	Elkhart valves
30-20-1620	1	Piping stainless steel - MG, DSD pumps
30-20-1700	1	1-1/2" thread specifications NPSH
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 -AP/MG/DSD 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.
30-21-5520	1	Tank to Pump SS 3" w/ check valve non manifold pump 4" piping and check valve
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
30-32-7550	1	Suction - 2-1/2" left side SS, bleeder, non manifold pump
30-41-2040	2	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 Right side
30-44-0520	2	1-1/2" crosslay (each) SS, 2" valve, bleeder Capacity for 200' x 1-3/4" DJ hose in each lay. The transverse hose bed is equipped with horizontal stainless steel rollers only each end for easier hose removal. Vertical stainless angles provided to protect paint.
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 E
30-51-6630	1	Class One "TPG" Governor/Throttle
30-51-7000	1	Suction side relief V/V, manifold pump
30-51-7700	1	Primer Hale oil less ESP with oil tank Hale Indicator light on panel to show when primer is operating

PART NO	QTY	DESCRIPTION
30-51-8100	1	Heat exchanger included with chassis
30-52-1000	1	Master drain V/V, 12 port
30-52-3001	1	Foam system not requested
	1	E
		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 Lock open device is required
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
40-31-9000	1	4" Storz rear fill, Fireman's Friend
	1	ELECTRICAL
50-11-0500	1	Base electrical system ***Includes green "Battery On" indicator light on chassis instrument panel.
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 -REAR BEACONS -FLASHING WARNING -FRONT SCENE (Take down lights in lightbar) -REAR SCENE -GROUND LIGHTS Mount in centre overhead console in chassis cab
50-11-1400	1	Federal PA300 100 watt siren
50-11-1620	1	Siren speaker, 100 watt, in front bumper
50-11-2600	1	Siren to be accessible to driver and officer Mount in centre overhead console with rocker switches
50-11-5900	1	Federal LED light bar - Discrete model LPX53DS-NFPA
50-11-6501	1	Rear Directional Light not requested
50-11-9010	1	Rear beacons-Federal NVG10 LED (pr) - both red
50-12-5028	1	Front LED flashers (pr)-red Federal QL43-RR
50-12-5118	1	Rear LED flashers (pr)-red Federal QL43-RR
50-12-5218	1	Front side inter lts (pr)-red LED Federal QL43-RR
50-12-5318	2	Body side inter lts (pr)-red LED Federal QL43-RR
50-21-2525	2	FRC telescoping SPECTRA LED 12V flood (ea) Switched on light head Include switch to operate door ajar light when not stowed (Option SW) Mounted on front of pump house as shown on the proposal drawing Model SPA530-Q15-ON-SR-SW

PART NO	QTY	DESCRIPTION
		Managed to shed with the ESM (Electric System Manager)
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Located overhead of 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 Located overhead of drivers seating position. Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-8001	1	Step lights for body steps - 4" LED
50-21-8200	1	Step lights for chassis steps - LED
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-0700	1	Whelen 64 LED tail/brake-turn-backup module (pr)
50-31-6020	1	Rear Scene Lights Whelen LED (pr) Switched in cab rocker switch panel These lights required by ULC and cannot be shed
50-31-6550	1	Ground lighting (LED Lumabar) - 2 door chassis
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body
50-99-0010	1	Antenna base only Install on cab roof, wired to dash under cup holder - base and cap only
	1	BODY
60-10-1600	1	Tandem axle extruded aluminum body
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround E
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6000	1	Extruded rub rail
60-11-0100	1	Front left side compartment to top of wheel well
60-11-0700	1	Front right side compartments full height E
60-11-0800	1	Rear left side compartment to top of wheel well
60-11-1400	1	Rear right side compartments full height E
60-11-2000	2	High side compartment (over 18") each Both right side as shown on the proposal drawing
60-11-3100	1	No rear compartment E
60-11-5500	4	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	2	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5650	4	Roll up door pull down strap (ea)
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 LED lights Maximum height between steps is 18" Intermediate step replaces top folding steps
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"

PART NO	QTY	DESCRIPTION
60-31-5800	1	Intermediate step above rear scene lights Locate above scene lights, approximately 9" deep x full width, 18" below hose bed
60-31-6500	1	Compartment matting-Turtle tile
60-31-8000	4	BA bottle compt (ea)-fender well Two each side, front and rear of fender well, Cast Products
60-31-8700	2	Sliding tray (ea) - 400 pound capacity with gas strut Customer to specify location of slide out tray Tray #1 - _L1 at floor level_ Tray #2 - _R1 at floor level_ Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-31-9600	2	Adjustable shelf (ea) Customer to specify location of adjustable shelf and if shallow or full depth; Shelf #1 - __R4__ Full Depth Shelf #2 - __R4__ Shallow Depth Shelf #3 - _R1__ Shallow Depth (Note that additional shelf added since the vertical unistruts are already present) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-32-3550	1	Two adjustable hose divider (each) Hand hold required in end
60-32-7500	1	Hose bed - aluminum
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour red to match cab
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0500	1	Paint chassis wheels job colour with silver trim E
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.
60-33-3000	1	Reflective stripe - 4" white Minimum 50% of perimeter each side and 25% of perimeter front
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface
60-33-3500	1	Tarp over hose bed - red Tarp to be RED
60-33-4600	1	Aluminum cover over crosslays - with end tarps (red) End tarps to be RED
60-40-2000	2	4" Hose tray - top mount (ea) Install vertically in hose bed on RS, under the HLAS, provide a door to secure hoses in place - door ajar switch required
60-40-5500	2	Suction hose tube (each) with door For 6" x 10' suction hoses 80-11-5000
60-41-1015	2	Pike Pole tube in suction hose tube
60-41-6500	1	Portable tank rack - side mount Left side

PART NO	QTY	DESCRIPTION
60-41-7100	1	Tread plate on body behind porta tank rack
60-41-9500	1	Zico Horizontal Ladder Access system Right 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. Customer to provide make, model, and dimensions of ladders to be carried: Alco Lite PEL3-35 3 section extension ladder Alco Lite PEL-24 2 section extension ladder
60-41-9510	1	ZICO HLAS switched at rear above tail light Switch is located on same side as electric rack - right side
60-99-0010	1	Hose bed lighting - on front partition to meet ULC Use LED strip lights to meet ULC, switched by panel lights or equivalent
60-99-0020	2	Horizontal unistruts for customer SCBA storage Install in RS compartments over rear wheels (R2, R3)
60-99-0030	2	Vertical unistruts for future shelves - single depth compartment Install in lower LS compartments (L1, L2)
60-99-0040	2	Vertical unistruts for future shelves - double depth compartment Install in lower RS compartments (R1, R4)
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0500	1	Side 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
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
70-11-4000	1	Stainless steel side panel hood right side
70-11-4100	1	Stainless steel side panel hood left side
70-11-5000	1	Standard cover over rear top of pump house - no storage
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18" Slot required for Primer level viewing
70-11-7500	1	Heat pan-aluminum
70-11-8000	1	Heater in pump compartment
70-20-0500	2	4-1/2" compound gauge - dual face 0-600 To be within 8" of each other - edge to edge
70-20-2100	7	2-1/2 pressure gauge - dual face 0-400 psi Gauge to be no more than 6" from edge of the gauge of the center of the control
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.
70-20-3510	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

PART NO	QTY	DESCRIPTION
70-20-7500	1	<i>Heat exchanger control valve</i>
70-21-5500	1	<i>Panel readout for Battery Conditioner</i>
	1	ACCESSORIES
80-11-5000	2	<i>6" x 10' lightweight suction hose (ea)</i> Tube mounted
80-12-2500	1	<i>6" barrel strainer</i> Not mounted - shipped loose - Customer will mount
80-13-0500	1	<i>Price Adjustment</i>
80-14-0500	1	<i>Price Adjustment</i>
80-14-5500	1	<i>Price Adjustment</i>
80-14-9000	1	<i>Attic ladder bracket (Zico)</i> Mount on HLAS
80-15-1000	1	<i>2000 l gallon portable tank - Husky</i> Stored in side mount portable tank rack.