



Shop Order

ELG, Local Government
 Marysville Place
 20 McGloin Street
 Fredericton, NB E3A 5TA

Dumfries Fire Department
 Province of NB

Sales Rep: Ryan Stacey Metalfab Ltd.	Terms: Chassis, body and Equipment COD
Drawing #: FT-11462-A	
Est. Delivery Date: / /	
Customer PO #: P100101221	Penalty:
Customer #: 1572	None
QPF #:	

Exp. Date: 12/14/2020
Quote No: RDUNB-0018
Job/Order No: 21981
BODY: 00-10-36 Metalfab Fast Response - 05/13

11/18/2024

PART NO	QTY	DESCRIPTION
		== Metalfab Fast Response - 05/13 - 0.000 ==
		CHANGE ORDER F
00-10-0500	1	Metalfab Minipumper
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
00-20-1700	1	Hale Pump Warranty - 5 years
00-20-1800	1	Polypropylene Water Tank Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
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 available from Ford The standard seat belt warning from Ford will be provided
10-11-1101	1	ULC S515-13 and NFPA 1901-2009 Compliance
10-11-15AA	1	ULC Testing - Intial Attack Fire Fighting Apparatus - Imperial units of measure
10-11-2100	1	Maximum length not specified
10-11-2200	1	Maximum height not specified
10-11-2300	1	Overall length is less than 30'
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies and one (1) Digital ***Two copies of manuals are required and one (1) digital copy

PART NO	QTY	DESCRIPTION
10-11-3600	1	Delivery - FOB Fire Department Minimum of one day of training shall be provided and one (1) video presentation to be used for future training
10-11-4200	1	Payment Terms - Chassis and Body Net 30 days
10-20-1250	1	Hose bed capacity - standard Mini Pumper
10-20-2400	1	Equipment carrying capacity exceeding ULC/NFPA requirements - 1890 lbs Department advised that they would be carrying 1890 lbs - as per e-mail received 04.07.2021
CHASSIS INFORMATION		
20-11-1000	1	Chassis supplied by Metalfab - Ford Super Duty F-550 XL 4WD Crew Cab 205" Wheelbase 84" Cab to axle 19,500 lb GVWR V-8 Diesel 6.7 litre engine 300 hp @ 2600 rpm 825 lb-ft torque @ 2000 rpm 10-Speed TorqShift automatic transmission 397 amp alternator 151.4 litre fuel tank Color is Race Red Black front bumper and grille Electric windows Rubber floor Power Mirrors Vinyl seat material Steel wheels with stainless wheel liners
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB
20-21-0500	1	Fluid capacity plate
20-21-05AA	1	Special label in cab specifying cleaning of ember separator Label in cab reading "This apparatus is equipped with an air filter ember protection screen; routine inspection is required"
20-21-0600	1	Pumping test plate
20-21-1030	1	Maximum riders sign - 5 persons
20-21-1510	1	Seat belt warning labels - 4 door chassis
20-21-1520	3	Helmet warning label - do not wear helmet
20-21-1530	1	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 ** 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 There will be a chain attached to the key to meet ULC
20-21-2500	1	Shifter lock not required

PART NO	QTY	DESCRIPTION
20-21-3500	1	Rear step warning label
20-21-3800	1	Front mudflaps
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0100	1	Fuel tank or step covers not required
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only Include a label for the DEF fill as well.
20-31-1900	1	Chassis cab painted red by OEM Ford Motor Co.
20-31-7500	1	Console in cab Install switch panel (50-11-0900), siren (50-11-2500), provisions for Customer's radios (50-35-0500), Pump shift indicator lights, and door ajar light (50-21-5600) in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish
20-31-7505	3	Stainless glove box holder/dispenser Ship loose
20-31-7588	1	Remove center section of front cab seat for room for console (Ford and Dodge)
20-41-0600	1	Intake air shutoff for engine not requested
20-41-1520	1	Extend exhaust pipe - RS rear 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.
20-41-1801	1	Battery boost terminals not required - batteries accessible
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2550	2	Fuel fill at LS rear fender well One forward and one rear of rear wheels in fender well LS
20-41-25AA	1	DEF fill RS pump panel OEM DEF fill located on RS pump panel
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5200	1	Rear trailer receiver - Class III/IV and 7-pin trailer connection There will be a 7-pin trailer connection wired to industry standard
20-41-5215	2	Side receiver, under body 2" Class 3 receiver 5,000 pound capacity One each side ahead of rear wheels No power point provided
20-41-5240	1	Supply pintle hook with adapter and pin to slide into receiver There will be a pintle hook supplied for the rear receiver (20-41-5200) and shipped loose with the completed unit to meet ULC.
20-51-05AA	1	Master disconnect switch - rocker switch Rocker switch in console to energize the Kissling Relay
20-51-2500	1	Back up alarm included with chassis
20-51-3100	1	Air inlet not requested
20-51-6200	1	120 volt 20 A shore line connection in chassis cab Standard 5-20R duplex receptacle in chassis cab, not fused To be on back wall of chassis, 12" off the floor as per ULC, for battery conditioner

PART NO	QTY	DESCRIPTION
20-51-6500	1	Kussmaul Autocharge 1000 battery conditioner w/battery saver Will be installed on the back wall behind the rear seats
20-51-7101	1	Electric System Management - VMUX
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Located driver side pump panel as discussed with Roland Caissie
20-51-8500	1	Engine compartment light One required to light up complete engine compartment
20-51-8600	1	Air intake ember seperator SOPT #301
20-51-9001	1	Air horns not requested
20-52-4009	1	Pro-Vision camera system - 4 cameras - front, right, left and rear - with DVR The front camera will be installed on the chassis dash area To be programmed so rear camera view is shown on monitor when transmission is placed in reverse; LS camera view is shown on monitor when the LS turn signal is active; and RS camera view is shown on monitor when the RS turn signal is active.
20-60-0400	1	Chassis wheelbase does not change
20-99-05AA	1	Running boards for Ford F-550 Crew cab 4x4 Tubing type under cab steps to be installed each side of chassis
PUMP AND PLUMBING		
30-11-3800	1	Hale DSD midship pump - 1050 IGPM
30-15-0304	1	Plumbing - non manifold pump SM SS
30-20-0500	1	Valves and controls - side mount panel
30-20-1003	1	Elkhart valves specified
30-20-1620	1	Piping stainless steel - non manifold Pumper
30-20-1700	1	1-1/2" thread specifications - Storz Department confirmed that preferred thread is Storz
30-20-1800	1	2-1/2" thread specifications - Storz Department confirmed that preferred thread is Storz
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.
30-21-55AA	1	Tank to Pump SS 3" w/check valve non manifold pump - 3" piping
30-22-0520	1	Tank Fill valve 2" SS
30-31-4020	1	Suction - 6" not gated LS only, SS non manifold pump 6" header The left side will be gated with the electric MIV 30-31-7200, have a Camlock fitting (80-99-05AA) and the right side will have a customer supplied and installed Akron Revolution valve. As discussed at the pre-construction meeting of 05.06.2021 The right side pump panel will be recessed to allow the customer intake valve to be installed without going over width. The Akron Revolution intake valve received at Metalfab July 5, 2024

PART NO	QTY	DESCRIPTION
30-31-7200	1	Hale master intake suction valve - electric control *** Suction to be gated is left side Added as requested by e-mail on 03.22.2021
30-32-7550	1	Suction - 2-1/2" left side SS, bleeder, non manifold pump
30-32-8050	1	Suction - 2-1/2" right side SS, bleeder, non manifold pump
30-40-2006	1	4" right discharge, SS, plumbed 3", bleeder, 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 To be on the left side of the body and be foam capable as requested by customer by e-mail on 03.22.2021
30-44-05AA	2	1-1/2" discharge under crosslay hose bed Provide 1-1/2" discharge each side under crosslay hose bed, plumbed 2", no cap required, bleeder required. OK to raise crosslays if necessary for clearance around pump panel.
30-51-05AA	1	Pump shift - midship air with compressor Hale air shift provided, Kussmaul compressor provided with reservoir for air supply
30-51-6810	1	FRC InControl Governor/Throttle engine display with buttons To be compatible with Ford chassis
30-51-7000	1	Price Adjustment
30-51-7000	2	Suction side relief valve One for LS MIV One for pump
30-51-7700	1	Primer Hale oil less ESP with oil tank Hale Indicator light on panel to show when primer is operating Include a master disconnect for the primer, locate on the side or front of the cab console
30-51-8000	1	Heat exchanger Sendure
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	Drain valve for foam system header
30-52-4010	1	Foam System - Hypro FoamPro 1600 Specify the discharge(s) to be plumbed with foam: Rear 2.5" and both crosslays as advised by customer by e-mail on 03.22.2021
30-52-8100	1	Electric foam fill pump with panel pickup There will be a foam refill pump supplied and installed on the right side pump panel with the refill hose stored inside the right side pump panel access door. As requested by e-mail on 03.22.2021
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
WATER AND FOAM TANKS		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)

PART NO	QTY	DESCRIPTION
40-11-3500	1	Tank capacity 165 Imperial Gallons minimum The water capacity will be a minimum of 165 Imperial Gallons to meet ULC but Metalfab will attempt to get as close to 200 Imperial Gallons. This will be dependent of the final body design and weight distribution. Fill tower to be front left corner
40-12-4500	1	Foam cell - 10 Imperial gallon 10 Imperial gallon as per provincial document
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
40-23-1000	1	3/4" foam level gauge connection
40-30-0500	1	Sump drain valve (3" gate valve) with linkage There will be a sump drain control supplied and mounted under the body rub rail as discussed at the pre-construction meeting of 05.06.2021
40-31-6050	1	Rear fill not requested
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: E-MASTER LIGHT BAR RED LIGHT BAR WHT FLASHING WARNING REAR BEACONS HOSE BED WORK LIGHT SIREN BRAKE LEFT SCENE REAR SCENE RIGHT SCENE
50-11-1460	1	Federal EQ2B 200 watt siren
50-11-1631	1	Siren speaker, 200 watt for EQ2B, in front bumper
50-11-2010	1	Price Adjustment
50-11-5812	1	Federal LPX53DS - NFPA LED light bar ****red/white****
50-11-7600	1	Rear LED Federal Signal Master warning lights SL8S
50-11-9010	1	Rear beacons - Federal NVG10 LED (pr) - both red - no height restriction
50-12-5020	1	Front LED flashers (pr)-red Federal QL43
50-12-5210	1	Front side inter lts (pr)-red LED Federal QL43
50-12-5310	1	Body side inter lts (pr)-red LED Federal QL43
50-21-1505	1	Rear floods (pr) Unity LED Note that these lights are also used as rear step lights and cannot be managed Switched on light head and switched in cab. As requested by e-mail on 03.22.2021
50-21-2540	2	FRC telescoping SPECTRA LED 12V flood (ea) Wired to the "Do not move apparatus" light in the cab

PART NO	QTY	DESCRIPTION
		Control switch at light head
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"
50-21-8001	1	Step lights for body steps - 4" LED Switched when transmission is placed in park as approved by customer by e-mail on 03.22.2021
50-21-8201	1	Step lights for chassis steps - LED Luma bar Switched when transmission is placed in park as approved by customer by e-mail on 03.22.2021
50-21-8600	1	LED clearance lts and reflectors
50-22-0800	1	Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)
50-31-6012	1	Scene lights (pr) - Whelen M6ZC LED - left side
50-31-6013	1	Scene lights (pr) - Whelen M6ZC LED - rear facing Switched in cab and when vehicle is in reverse
50-31-6014	1	Scene lights (pr) - Whelen M6ZC LED - right side
50-31-6560	2	Ground lighting (LED Lumabar) - 4 door chassis Switched when transmission is placed in park as approved by customer by e-mail on 03.22.2021
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body Switched when transmission is placed in park as approved by customer by e-mail on 03.22.2021
50-35-0500	2	Installation of customer supplied mobile radio Radios are here, information sheets are in Basecamp
50-35-0559	2	Mobile radio antenna provided by customer
50-41-5261	2	12 volt power point not required
50-99-10AA	1	Deck light at front of hose bed - switched on light head, Master switch in cab
		BODY
60-10-1000	1	Mini Pumper extruded aluminum body
60-10-4100	1	No "beavertail" rear step supports
60-10-4500	1	Aluminum tread plate fender surround - single axle
60-10-4700	1	Integral aluminum fender trim
60-10-5450	1	Diamondback 10" rear step
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
60-11-3200	1	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

PART NO	QTY	DESCRIPTION
60-11-5520	5	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
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" Three (3) per side
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" Steps to go to top of body each side
60-31-6500	1	Compartment matting - black plastic interlocking tile
60-31-8200	2	Sliding vertical tool board Install at top of L3 compartment, one next to each sidewall. Install 2 80-18-0500 SCBA brackets for spare cylinders on each toolboard on the inboard side.
60-31-8700	4	Sliding tray (ea) - 400 pound capacity with gas strut Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Tray location: Tray #1 - L3 compartment Tray #2 - B1 compartment Tray #3 - R1 compartment Tray #4 - R3 compartment As requested by customer at the pre-construction meeting of 05.06.2021
60-31-9600	6	Adjustable shelf (ea) White reflective stripe is applied on the exposed edge for visibility when the compartment door is open Customer to specify location of shelves; Shelf #1 - L2 compartment Shelf #2 - L3 compartment Shelf #3 - B1 compartment Shelf #4 - R1 compartment Shelf #5 - R2 compartment Shelf #6 - R3 compartment As advised by customer by e-mail on 03.22.2021
60-32-3560	1	Three 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 body
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
60-33-1600	1	Special paint compartment interior - gray zolatone

PART NO	QTY	DESCRIPTION
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Truck number "254", door decal "DUMFRIES FIRE", 911, Keep back, compartment door near handle and on door header Layout approved July 16, 2024
60-33-3000	1	Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material Layout approved July 16, 2024
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface. 3M printed Scotchlite material The rollup door and the body panel each side of the back compartment to have chevrons. The outer portion of the body to be painted
60-33-3500	1	Tarp over hose bed - black Hose bed tarp to have J-hooks on side and at rear along with shock cord to retain in place. As requested by customer at pre-construction meeting of 05.06.2021
60-33-3600	1	Reflective stripe - inside entry doors 96 square inches minimum inside each cab and crew cab entry door
60-33-4000	1	Tarp over crosslays - black Crosslay tarp to have J-hooks on ends along with shock cord to retain in place. There will be velcro along the top edge. As requested by customer at pre-construction meeting of 05.06.2021
60-40-5000	2	6" Hose tray - top mount (ea) In hose bed as per drawing FT-11462
60-40-9000	2	Tube mount for ladders A ladder tube shall be installed behind the passenger side compartments. The ladder tube will be designed to securely store the 12 roof ladder (80-14-5000), 24 three section ladder (80-14-0510) and the 10' attic ladder (80-14-8500)
60-41-1000	1	Pike Pole tube with door Will be in same tube as ladders 60-40-9000
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
70-11-4100	1	Stainless steel side panel hood left side

PART NO	QTY	DESCRIPTION
70-11-4500	1	Diamondback grip type panel hood step right side There will be a grip strut step supplied and installed on the right side pump panel as discussed at the pre-construction meeting of 05.06.2021
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 Switch for heater is located on the left side pump operator's panel
70-20-1120	2	4-1/2" compound gauge - dual face 0-400 Thuemling brand
70-20-2130	7	2-1/2" pressure gauge - dual face 0-400 - Thuemling brand Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-2500	1	Primer control
70-20-3300	1	FRC InControl 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
70-20-6500	1	Test gauge panel
70-20-7500	1	Heat exchanger control valve
70-21-1500	1	Electric Foam Level gauge Include access to and room for sender in front of body and back of pump house
70-21-5500	1	Panel readout for Battery Conditioner To be installed on left side pump panel
ACCESSORIES		
80-12-2500	1	6" barrel strainer
80-13-1000	3	Hose wrenches (double) with holder Install at LS pump panel, RS pump panel and rear of unit
80-13-2500	1	Pike pole, fibreglass handle - 10' long
80-13-2510	1	Pike pole, fibreglass handle - 6' long
80-14-0510	1	24' 3 section extension ladder PEL3 24
80-14-5000	1	12' aluminum roof ladder PRL-12
80-14-8500	1	10' aluminum folding attic ladder FL-10
80-18-0500	8	SCBA bracket with strap - compt mount For four (4) customer supplied SCBA and four (4) customer supplied spare bottles Fire department to advise: Make and model of SCBA Dimensions of SCBA Length: 24" Depth: 8" Width: 12" Bottle: Length: 24" Diameter: 6" As advised by customer by e-mail on 03.22.2021

