



Shop Order

Carrier Truck Center Inc
 645 Athlone Place
 Woodstock, ON N4S 7V8

ArcelorMittal Dofasco Fire Department

Exp. Date: 10/26/2016
Quote No: GDOON-0021
Job/Order No: 20249
BODY: 00-10-21 Metalfab Walk Around 05/13

05/09/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Walk Around 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER H	1	MTL
00-10-2000		Metalfab Walk Around Rescue/Equipment Unit E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0105		Vehicle Data Recorder not requested E	1	MTL
10-11-0700		ULC S515-04 Compliance - Rescue/Equipment	1	MTL
		Reference ULC S515:		
		Chapter 3 - General Requirements		
		Chapter 10 - Special Services Apparatus		
		Chapter 11 - Chassis		
		Chapter 12 - Low Voltage Electrical/Warning		
		Chapter 13 - Driving and Crew Areas		
		Chapter 14 - Body		
10-11-1501		ULC Testing not requested E	1	MTL
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200		Maximum height not specified E	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of chassis manuals are required.		
10-11-3600	S	> Delivery - FOB Fire Department - by Carrier Centers	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-11-40AA	U	Chassis interest charges	1	
		Interest charge for Invoice 19550 for chassis payment of \$123,170.00 invoice 12.20.2018 and due net 10 days as per 10-11-4000.		
10-20-2630		Equipment carrying capacity - ULC/NFPA SSV 30,001 to 40,000 GVW	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - 4 dr Freightliner M2 106	1	MTL
		33,000 lb GVWR 12,000 lb front axle 21,000 lb rear axle		
		210" wheelbase 97.2" cab to axle		
		Detroit DD8 7.8 Litre 260 hp @ 2200 rpm 2600 governed rpm		
		660 lb/ft torque @ 1200 rpm		

PART NO	S	DESCRIPTION	QTY	ID
		Allison 3000 EVS automatic transmission, 275 amp alternator 189 liter fuel tank - LH Color to match PPG 71698 red - spray out has been approved. Include foot switch for air horn officer's side. Include tilt and telescope steering column. Include one 12 volt power point, one USB power point in cab. Top speed of the chassis will be 105km/h as confirmed 08.15.2018 There will be an AM/FM radio installed in the chassis.		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600		Chassis Motor Vehicle Inspection not required	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-1020		Maximum riders sign - 4 persons	1	MTL
20-21-1510		Seat belt warning labels - 4 door chassis	1	MTL
20-21-1530		Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		Apparatus Information Label	1	MTL
		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		Non removable key	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		Front mudflaps provided with chassis E	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1000		Alum tread fuel tank trim, Conv - 4 door Vertical trim only, OEM cab steps remain Two piece design as shown on the proposal drawing.	1	MTL
20-31-1900		Chassis cab not painted E	1	MTL
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.	1	MTL
20-41-1900		Battery boost terminals with chassis E	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5000		Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)	1	MTL
20-51-0710		Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2600		Back up alarm	1	MTL
20-51-3100	S	Air inlet not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6600		Kussmaul Pump Plus conditioner/compressor Components located behind or under rear seats in cab	1	MTL
20-51-7101	S	Electric System Management not requested	1	MTL
20-51-7300	S	> Low Voltage Alarm in cab ENG. NOTE: Requires 20-51-7100 Electric System Manager Kussmaul Low Voltage Alarm 091-85-12 (p/n 103924) Light/buzzer (p/n 1030595)	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located in left cab step area as shown on the proposal drawing.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-51-8500	S	Engine compartment lighting Switched when park brake is applied	1	MTL
20-51-9001	S	Air horns with chassis Chassis has hood mounted air horns controlled with DS and PS foot switches.	1	MTL
20-52-1000	>	Federal Littlite gooseneck map light (ea) E ENG. NOTE: Specify location in shop note Mounted on Officers "A" post.	1	MTL
20-52-3000	>	Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan	1	MTL
20-52-4000		Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab located on top of dash.	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-0010	U	Cabinet between rear seats Storage with door in top. Door to open towards back of cab. Zolatone finish.	1	
ELECTRICAL				
50-11-0500		Base electrical system ***Includes green "Battery On" indicator light on chassis instrument panel.	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents As required by ULC and NFPA standards	1	MTL
50-11-0900	S	Rocker switch panel with master warning switch Rocker switches to be mounted in the chassis centre overhead console beside the EQ2B 50-11-0900. ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR BLUE -FLASHING WARNING -LEFT SIDE SCENE -RIGHT SIDE SCENE -REAR SCENE	1	MTL
50-11-1460		Federal EQ2B 200 watt siren Controller to be mounted in center overhead console right of rocker switches.	1	MTL
50-11-1631	<	Siren speaker, 200 watt for EQ2B, in front bumper To have Q2B Grille	1	MTL
50-11-2500		Siren to be accessible to driver only E	1	MTL
50-11-6100	S	Whelan FN60QLED LED light bar NFPA ****To be red and blue lights (as opposed to red and white)****	1	MTL
50-11-6600	S	Rear LED Traffic Advisor warning lights - surface mount The controller will be installed in the centre portion of the chassis dash.	1	MTL
50-11-8001	>	Rear beacons not required E ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present	1	MTL
50-12-8520	S	Front LED flashers (pr)-Whelen red/blue LED 400 with integral flasher One light on the right side to be red, one light on the left side to be blue	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-12-8610	S	Rear LED flashers (pr)-Whelen red LED 400 with integral flasher	1	MTL
50-12-8620	S	Rear LED flashers (pr)-Whelan LED C9LR with integral flasher One light on the right side to be blue and one light on the left side to be red	1	MTL
50-12-8710	S	Front side inter lts (pr) - Whelen red LED 400 with integral flasher	1	MTL
50-12-8810	S	Body side inter lts (pr)-Whelen red LED 400 with integral flasher	1	MTL
50-12-8820	S	Body side inter lts (pr)-Whelen red LED C9LR with integral flasher One light on the right side to be red and one light on the left side to be blue	2	MTL
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500	S	Door Ajar warning light Located in the chassis dash Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8006	S	Step lights for body steps - LED	1	MTL
50-21-8201	S	Step lights for chassis steps - LED	1	MTL
50-21-8610	U	LED clearance lts and reflectors - Rescue	1	
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6006		> Scene lights (pr) - Federal QL97 LED ENG. NOTE: Specify location One each side centered on upper body sides. Two on back of body inboard of flashing lights - upper level Three (3) switches required; Left side scene Right side scene Rear scene	2	MTL
50-31-6011		Scene light boxes not required E	2	MTL
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis	1	MTL
50-31-6590	S <	Ground lighting - Rescue Body - Not Required	1	MTL
		*****NOT REQUIRED*****		
50-35-0500	S	Installation of customer supplied mobile radio Radio information list required to confirm location, power, frequencies will be sent to Metalfab when the chassis arrives. The radio will be installed in the overhead console above the officer seat as per the e-mail 03.25.2019 and it will be powered through the battery master switch. There will be a 12-volt, 10 amp power connection run to the back wall of the chassis between the two (2) rear seats for a customer supplied / installed onboard repeater system that measures 18" wide x 14" long x 5" high. This will be installed by the end user after the delivery as requested 09.02.2018. The customer supplied gate controller that was delivered 12.13.2018 will be installed in the overhead console above the driver seating position and will be wired to 12-volts.	1	MTL
50-35-0560	S	VHF antenna with base - commercial chassis Mounted behind light bar. The antenna will be trimmed to 450-470	1	MTL
50-99-0010	U	12 volt wiring in liquid tight conduit - exterior *****Metalfab installed wiring only***** All 12 volt electrical wiring in the body that is exposed to the elements under the body are protected by liquid tight conduit and bulkhead connections where they enter the body. Waytek #27203 - 1" conduit Waytek #27243 - 1" Bulkheads Waytek #27250 - 1" 90 degree elbows See SOPT in file	1	

PART NO	S	DESCRIPTION	QTY	ID
		Engineering to provide ordering details of components and quantity.		
50-99-0020	U	FRC Spectra 12 VDC telescoping flood with switch on body SPA530-Q15-SW-NS This will need to be spaced out far enough from the body to clear the warning and scene lights. This is to be switched at the rear of the body with weatherproof switches (12 VDC) rather than on the light head. To be wired to the door ajar warning light.	2	
		BODY		
60-10-1401	S	Walk Around rescue body - 14'	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5450		> Diamondback 10" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6000		Extruded rub rail	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0700		> Front right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1000		> Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1400		> Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	2	MTL
60-11-3200		> Full Height Rear compartment ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-5500		Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	5	MTL
60-31-4125		Extruded aluminum handrails - rubber inserts - rescue truck rear Minimum 2" clearance from handrail to any surface	1	MTL
60-31-6500	S	Compartment matting - interlocking plastic tile	1	MTL
60-31-8000		BA bottle compt (ea)-fender well	4	MTL
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity with gas strut ENG. NOTE: Specify location	5	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Located at floor level in L1, L3, R1 half width, R1 half width, and R3 Note modifications to R1 sliding trays in 60-99-0020 Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
60-31-8800		> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location	1	MTL
		Located at depth change in B1 - full depth (to the back wall of L1/R1) SlideMaster 100% type slide out hardware. ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location	6	MTL
		Located in the following compartments L1, L2, L3, R1, R2 and R3 Reflective stripe is applied on the exposed edge for visibility when the compartment door is open The shelves in L1 and R1 are to be located in the through area of the compartment and are to be half the depth of the through area (approximately 47").		
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		Chassis wheels not painted	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2200	S	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Department supplied decals were delivered 12.13.2018.	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-99-0010	U	Basket stretcher storage front wall L1/R1 Fabricate mounting tube for International basket stretcher on the front wall of transverse compartment L1/R1. Provide a Velcro strap with footman loop each end to secure stretcher in tube. Customer provided dimensions of 80" long x 24" wide x 8" deep on 07.07.2018.	1	
60-99-0020	U	Fire extinguisher storage in R1 trays Install back and sides with front bar per photos in Dofasco 2018 folder for both R1 sliding trays for storage of customer fire extinguishers.	1	
60-99-0030	U	Step Ladder storage high in B1 Provide a rear access storage tube in B1 as high as possible for customer step ladder. Provide a Velcro strap and footman's loop to secure the ladder. Customer provided dimensions of ladder 01.24.2018: 73" L x 23" W x 8" H	1	
70-21-5500		Panel readout for Battery Conditioner Located in left cab step area as shown on the proposal drawing.	1	MTL

