



Shop Order

Kemptville Fire Department
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Exp. Date: 07/20/2018
Quote No: CKENS-0015
Job/Order No: 20463
BODY: 00-10-26 Metalfab Walk In - 05/13

06/19/2019

PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Walk In - 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER D	1	MTL
00-10-2500		Metalfab Walk in 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	S	ULC S515-13 compliance - Rescue/Equipment	1	MTL
10-11-2010		> ULC Testing - Special Services Vehicle - no pump	1	MTL
		ENG. NOTE: Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200	S	Maximum height - 132" door opening Confirmed door height at the 12.05.2018 Pre-Construction meeting - 132"	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500	S	General Construction	1	MTL
10-11-3000		Manuals - two copies ***Two copies of chassis manuals are required.	1	MTL
10-11-3600	S	> Delivery - FOB Fire Department	1	MTL
		ENG. NOTE: Note in the shop note if more than 4 hours of training is required		
		Delivery requested after April 1, 2019		
10-11-4100	S	Payment Terms - Body only COD (with customer supplied chassis)	1	MTL
10-20-2610		Equipment carrying capacity - ULC/NFPA SSV 15,001 to 20,000 GVW This vehicle is designed to carry the standard miscellaneous equipment load of 2500 pounds for a Special Services Vehicle of 15,001 to 20,000 pounds GVW.	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-0500	S	> Customer supplied Chassis - Ford F-550 two door	1	MTL
		ENG. NOTE: Include chassis specifications		

PART NO	S	DESCRIPTION	QTY	ID
		Delivery to Metalfab in Centreville of the cab and chassis will be at the cost of the department.		
		Specs: Ford F-550 SD Regular cab 4x4 193" wheelbase 108" cab to axle 19,500 lb GVW 7,000 lb front axle 14,706 lb rear axle 6-speed TorqShift Automatic with Overdrive 6.8L V10 gas engine 288 HP @ 4,000 rpm 424 ft-lb torque @ 3,000 rpm 240 Amp alternator Color is Race Red ***Note: the rear turn/brake signal will have to be separated (Corey Ford).		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	S	Chassis Motor Vehicule Inspection as supplied with Customer's chassis	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-1020		Maximum riders sign - 4 persons 2 Seat in Chassis. 2 SCBA Seats in Body.	1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
20-21-1560	U	LED Tire Pressure indicators - Real Wheels SOPT19	1	
20-21-1600		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"	1	MTL
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3800		Front mudflaps	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0100		Fuel tank or step covers not required	1	MTL
20-31-0200	S	Fuel fill label - Gas Only	1	MTL
20-31-1900	S	Chassis cab - single color - painted by chassis OEM - Race Red	1	MTL
20-31-7500	S	Console in cab A console is installed between the cab seats with controls for the siren (50-11-1620), rocker switches (50-11-0900), Customer's radios (50-35-0500), spot light on hood (50-21-3000) and door ajar warning light (50-21-5500). Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish *** Layout was approved by the fire department Chief Bruce Gates on 04.29.2019***	1	MTL
20-31-7588	U	Remove center section of front cab seat for room for console Return the center section to the Customer.	1	
20-41-1200		Transmission programming not required	1	MTL
20-41-1520		Extend exhaust pipe - RS rear 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
20-41-1801		Battery boost terminals not required - batteries accessible	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2550	S	Fuel fill at LS rear fender well Use the fill guard and hoses as supplied with the chassis	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-41-5000		Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)	1	MTL
20-51-0500		Master disconnect switch - manual *** Floor mounted next to driver's door The only loads that will be disconnected will be the ones installed by Metalfab as per the Ford Bulletin.	1	MTL
20-51-2600		Back up alarm	1	MTL
20-51-3100	S	Air inlet not requested	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle Receptacle #1 - In chassis cab for battery conditioner Receptacle #2 & #3 - Inside the body for radio's on the wall behind the radio chargers inside the extension built over the cab (ref also 20-51-62AA and proposal drawing). These two will be wired to the automatic transfer switch 51-31-3100.	3	MTL
20-51-62AA	U <	Power bars for 120v outlets in body (ea) Affixed to wall behind the radio charges inside the extension built over the cab as shown on the proposal drawing - Ref 60-90-50AA Each power bar has 4 outlets (to accept transformer type plug-ins. Power bars are plugged into receptacles #4 and #5 - ref 20-51-6200. With all 4 bars plugged in there will be 16 outlets in total for battery charging.	4	
20-51-6500		Kussmaul Autocharge 1000 battery conditioner w/battery saver Locate on back of console 20-31-7500	1	MTL
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7300	S	> Low Voltage Alarm in cab ENG. NOTE: Requires 20-51-7100 Electric System Manager	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located on left side front of body on an angled standoff.	1	MTL
20-51-8510	S	Engine compartment light - LED Switched when vehicle is in park.	1	MTL
20-51-8600	U	Air intake ember separator for Ford	1	
20-51-9001		Air horns not requested E	1	MTL
20-52-3000		> Chassis steering wheel lined up by others ENG. NOTE: Required for all chassis except Freightliner, Sterling, Spartan	1	MTL
20-52-4003	U	Installation of rearview camera when supplied with Ford chassis SOPT#1056	1	
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1000		Sealed pass through cab to body Accordion seal around window opening with foam and gray vinyl	1	MTL
20-99-05AA	U	Stirrup step under cab There will be a stirrup step under each cab door to meet ULC and it will be illuminated by a single LED Lumabar 50-31-6550. SOPT 924	1	
		ELECTRICAL	1	MTL
50-11-0300		Base electrical system - multiplex E	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

PART NO	S	DESCRIPTION	QTY	ID
50-11-0900		Rocker switch panel with master warning switch Rocker switches are located in cab console 20-31-7500 ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -FLASHING WARNING -Ditch Lights -Right Scene Lights -Left Scene Lights -Rear Scene Lights	1	MTL
50-11-1400		Federal PA300 100 watt siren Siren is located in cab console 20-31-7500	1	MTL
50-11-1620		> Siren speaker, 100 watt, in front bumper ENG. NOTE: AS124 speaker 1570860	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5812	U <	Federal LPX53DS-NFPA lightbar SOPT#798	1	
50-11-6501	S	Rear Directional Light not requested	1	MTL
50-12-5040	U <	Front LED Flashers (PR) - Red Federal IMPAXX Lower level - located in chassis grille SOPT#1118	1	
50-12-5120	<	Rear LED flashers (pr)-red Federal QL97XF-R Upper level - located outboard of rear scene lights	1	MTL
50-12-5150	U <	Rear LED flashers (PR) - Red Federal IMPAXX Lower level - located above tail lights SOPT#1126	1	
50-12-5230	U <	Front side intersection lights - LED (pr) - red Federal IMPAXX Lower level - located as far forward on side of cab SOPT#1119	1	
50-12-5320	<	Body side warning lights (pr)-red LED Federal QL97XF-R Upper level - Located outboard of side facing scene lights in front and rear upper corners of body	2	MTL
50-12-5340	U <	Body Side intersection lights - LED (PR) - Red Federal IMPAXX Lower level - mounted in rear portion of rear fenders SOPT#1115	1	
50-21-1610	U <	Parking (ditch) lights in rear fenders - LED with Stainless housings Switched in cab and when transmission is in reverse gear. SOPT#160A	1	
50-21-29AA	U <	Additional lighting in Cab to illuminate floor area (ULC reqmt) 2 dr chassis SOPT#998	1	
50-21-3000		> Remote control electric spot/flood (ea) Spartan ENG. NOTE: Specify location of light and location of control panel in cab. Mounted on cab hood. Control is located in cab console 20-31-7500 assessible to Officers seating position	1	MTL
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Small compartments over rear wheels will have 4" LED grommet mounted lights		
50-21-5500		<i>Door Ajar warning light</i> Located in cab console 20-31-7500 Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8006	S	<i>Step lights for body steps/rear platform and entry steps - LED - Rescue</i> 12" LED H20 Lumabars (2) Energized when vehicle is in park	1	MTL
50-21-8200	U <	<i>12" Lumabar LED Step lights for two door chassis</i> Dependant on if cab is supplied with steps/running boards SOPT#194A Energized when vehicle is in park	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-22-0710	U	<i>Whelen C6 LED tail/brake-turn-backup module (pr)</i>	1	
50-31-6006	S < >	<i>Scene lights (pr) - Federal QL97 LED - Right side</i> Located on right side inboard of upper level flashing lights. Switched in cab	1	MTL
		ENG. NOTE: Specify location		
50-31-6007	U	<i>Scene lights (pr) - Federal QL97 LED - Left side</i> Located on left side inboard of upper level flashing lights. Switched in cab	1	
50-31-6008	U	<i>Scene lights (pr) - Federal QL97 LED - Rear facing</i> Located on rear of body inboard of upper level flashing lights. Switched in cab.	1	
50-31-6011		<i>Scene light boxes not required E</i>	1	MTL
50-31-6550		<i>Ground lighting (LED Lumabar) - 2 door chassis</i> Energized when vehicle is in park	1	MTL
50-31-6590		<i>Ground lighting (LED Lumabar) - rescue body</i> Energized when vehicle is in park	1	MTL
50-35-0500	S	<i>Installation of customer supplied mobile radio</i> The radio will be installed in the cab console 20-31-7500. Radio information list was obtained at the 12.05.2018 pre-construction meeting (one copy in the binder and one copy inside the Kenwood radio box). The radios were logged into inventory 12.17.2018 and they are a Motorola XTL1500 TMR and a Kenwood NX-3720HG.	2	MTL
50-35-0560		<i>VHF antenna with base - commercial chassis</i>	1	MTL
50-35-0590		<i>Cellular/TMR antenna with base - commercial chassis</i>	1	MTL
50-90-0540	U <	<i>Rescue Body interior lighting - LED - Truck-Lite 44339C</i> SOPT#298B	1	
		Includes 8 LED ceiling mount lights with flange Switch will be located by the entry door opening. They will be active from the chassis power or shoreline power when plugged in the hall.		
51-31-3000	S >	<i>120 volt wiring for portable generator</i> ENG. NOTE: Specify number and capacity of circuits, location and complete specifications of all electrical devices to be installed. Note that Neutral is bonded to chassis ground. Customer Supplied and installed portable generator Customer to Specify Breaker Location : Front right side compartment (R1) Customer to Specify what type of plug (attachment cap) required to plug into	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		generator: L14-20 - see picture in O:/ Metafabphotos/Road/Kemptville/Rescue Customer to specify generator Make, Model and dimensions: Make - Honda Model - EG3500X Length - 26" wide Width- 14" deep Height- 18" high ***Include two (2) circuits for a 20A receptacle to be installed at the rear of the body to the right of the rear door and the other to the left of the rear door. It will be functional only when the generator is in operation. ***Include a circuit for the automatic transfer switch 51-31-3100.		
51-31-3100	S	> Automatic 110 volt transfer switch ENG. NOTE: Requires 20-51-75 or 20-51-80 120 volt inlet To power receptacles 2 - 3 in the body as referenced in 20-51-6200. Confirmed with Chief Bruce Gates on 04.30.2019.	1	MTL
51-31-4500		Dielectric strength test for line voltage system	1	MTL
		BODY	1	MTL
60-10-2800	S	> Walk in extruded aluminum Rescue Body Aprox 16 feet ENG. NOTE: Specify location of entry door - rear of unit and/or right side of unit	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
60-11-0200	S	< > Front left side compartments intermediate height Must accommodate a gas power portable pump sitting on a 600lbs rolling tray. 29" x 24" x 25" high Measurements were confirmed at the 12.05.2018 Pre-Construction meeting ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0600	S	< > Front right side compartments intermediate height Customer supplied and installed generator will be installed in this compartment. Dimensions: 26" x 14" x 18" High It will sit on a 600 lb roll out tray : 60-31-8800 Measurements were confirmed at the 12.05.2018 Pre-Construction meeting 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
60-11-1300		> Rear right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1900	S	< > Low side compartment (up to 18") Drop Down door ENG. NOTE: Specify critical dimensions in shop note	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Specify type of door Specify flip up or drop down Specify which side of body		
60-11-3100		No rear compartment E	1	MTL
60-11-4400		Flush mount aluminum entry door - Rescue body rear (pair) At rear of unit Note: The "D" handle latch is in the left hand door unless otherwise specified.	1	MTL
60-11-4415		Side entry door not required - Rescue body E	1	MTL
60-11-4500		Flush mount aluminum door - single with "D" handle	2	MTL
60-11-5510		Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	3	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	1	MTL
60-11-56AA	U	Amdor pull strap - Flex-Hd for the L3 roll up door	1	
60-31-4120		Extruded aluminum handrails - rescue truck rear Minimum 2" clearance from handrail to any surface	1	MTL
60-31-4130		Extruded aluminum handrails - rescue truck rear interior Minimum 2" clearance from handrail to any surface	1	MTL
60-31-6500	S	Compartment Interlocking matting	1	MTL
60-31-8200	S	> Sliding vertical tool board ENG. NOTE: Specify location To be installed in rear left side cabinet behind roll up door between the fixed vertical partitions - evenly spaced 8" from each vertical partition Spacing was confirmed at the 12.05.2018 Pre-construction meeting	1	MTL
60-31-8400	S	Fixed vertical partition To be installed in the Rear Left side compartment Customer to specify required spacing from front wall of compartment. Partition #1 - 6" from door rail to allow storage of A-frame ladder that measures 73" high x 6" deep x 24" wide Partition #2 - 8" from tool board 60-31-8200	2	MTL
60-31-8800		> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open (1) One to be installed Right side Front for generator (1) One to be installed Left side Front for Portable Pump	2	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Two (2) in rear Left side Compartment rearward of the fixed partition. Three (3) in left side interior storage compartments (one in each compartment) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open (on the exterior compartment shelves only)	5	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour single colour to match cab	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	Chassis wheels not painted - left factory finish	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2200		Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side, 25% of perimeter front	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% minimum of rear vertical surface	1	MTL
60-80-0500	S	Rescue body windows - fixed in upper portion of rear entry doors	1	MTL
60-90-05AA	U	Flip up SCBA Seat (ea) Rear facing at front of body. Requires minimum 22" shoulder spacing. Seats include ULLH SCBA brackets.	2	
60-90-1000		> Bench seat in Rescue Body - no seat belts ENG. NOTE: Specify location Left side inside body under storage compartments. Requires warning label - do not ride in this location.	1	MTL
60-90-4000		Walk in Rescue - Interior white finish and insulation	1	MTL
60-90-5000		Interior shelving with doors - Rescue Body E 3 compartments left side are fixed with adjustable shelving (60-31-9600) and sliding Lexan doors with finger holes and locking pins. 2 compartments right side are fixed one over the top of the other rearward of the bunker gear compartments with sliding Plexiglas doors with finger holes and locking pins.	1	MTL
60-90-500A	U	Storage Space for body board above left side inside cabinets SOPT in file Customer provided dimensions of body board to be stored at the 12.05.2018 pre-construction meeting - Stokes basket measures 86" long x 24" wide x 8" deep	1	
60-90-5010		Bunker gear compartments - aluminum (per compartment) E Right side inside body as shown on the proposal drawing.	16	MTL
60-90-5015		Bunker gear compartment netting (per compartment) E	16	MTL
60-90-50AA	U	Extension of body over cab for storage and charging of 16 radios and chargers Lip required to prevent radios falling off during transit and LED tube light inside to see the radios stored (activated with rest of interior lights). Flip-up see through Lexan panel to cover the opening. Standard aluminum frame around the Lexan panel with mechanical latch to hold it in place. SOPT in file.	1	
60-90-5500		> Heater in Rescue Body E ENG. NOTE: Specify location of blower switch Specify location of heater Switch is located by light switch at the rear entry door opening.	1	MTL
60-90-6100	S	Roof mounted vent/escape hatch The roof mounted vent/escape hatch will be mounted towards the front of the body.	1	MTL
60-91-0500	S	> Compartment SCBA Storage rack E ENG. NOTE:	1	MTL

