

FastLane Emergency Vehicles

37241 E Richardson Lane - Purcellville, VA 20132

phone 540.338.0901 fax 540.338.0903

Job/Quote ID: Q2513

Client/Department Name: FL-SUV-CMD

Dealer: NCSA

Rep: North Carolina Sheriffs' Assoc.

Conversion Up-fit of a 2023 Ford Expedition 4dr 4x4 XL - STOCK NOGPC

Which will be supplied by: FastLane

VEHICLE BUILD SPECS

Details & Specification

Date: 5/22/2023

Chassis Specifications (if supplied by FastLane)

If indicated above and vehicle is supplied by FastLane, the following specifications shall be considered "included in contract". Only specifications listed herein shall be considered inclusive. FastLane shall not be responsible for chassis specifications outside this document.

The vehicle, a 2023 Expedition 4dr 4x4 XL - STOCK NOGPC Ford shall be supplied by FastLane.

This vehicle shall be comprised of only the following options, codes or packages:

2023 Expedition 4dr 4x4 XL will be ordered with the following options

Base Vehicle
U1G Base Vehicle Price

Powertrain
99T Engine 3.5L EcoBoost V6
44U Transmission 10-Speed Automatic w/SelectShift
STDGV GVWR 7,450 lbs

Seats & Seat Trim
L Cloth Front Captain's Chairs

Other Options
PAINT Monotone Paint Application
122WB 122 Inch Wheelbase
STD RD Radio AM/FM Stereo w/MP3 Capable
87N Reduced Seat Module Functionality
52L_ Auto Start-Stop Removal

Emissions
425 50 States Emissions System

Interior Color
LH_02 Black Onyx w/Cloth Front Captain's Chairs

Exterior Color
YZ_01 Oxford White

Fleet Options
102A Equipment Group 102A SSV Package
62E ControlTrac w/3.73 Axle Ratio
NONTR2 Tires P275/65R18 AT OWL w/536
64X Wheels 18 Machined-Face
Aluminum w/536
18B Black Platform Running Boards
536 Heavy-Duty Trailer Tow Package

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Conversion/Up-Fit General Specifications

WIRING

Wiring to be automotive type meeting or exceeding SAE J1128-GXL rated for minimum of +125 degrees centigrade. All wiring to be stamped with permanent, indelible marking describing plain word function not less than 6 inches apart for the entire length of the wire. Each run to be rated for 125% the specified ampacity of the connected load. All wires to be run in split corrugated, nylon loom with minimum temperature rating of +115 degrees Centigrade. Loomed harnesses to be wire tied to frame and chassis not greater than 16 inches apart. All high voltage lines such as strobe cables and harnesses to be shielded and in independent harness from all other wires. All pass through holes cut in body of vehicle where wire harnesses travel to have standard Heyco style bushings to protect from chaffing. All holes that pass to exterior of body to have approved sealing compound to seal wires from weather.

CONNECTIONS & TERMINATIONS

All connections made within the body, away from possible weather to be standard crimp style terminals with nylon insulation. Terminals must be crimped with approved tool specific to connector being used. All exterior or engine compartment connections (made on outside vehicle cabin) to be either heat shrink crimp style or Deutsch style, sealed connector and must protect against moisture, dirt and dust, minimum rating of -40 to 120 degrees Centigrade. All ground connections made on chassis frame or body on remote appliances to utilize star (toothed) ring terminal and be coated from weather and corrosion with silicon or approved sealant. Interface to OEM wiring shall be done in accordance with body builder and up-fitter specifications. Where possible any connection to OEM wiring shall use a tee style no-cut harness or shall be soldered into place using standard no-clean flux solder. This soldered connection shall then be covered in a dual wall, polyolefin, sealant lined heat-shrink tubing and heated into place with heat gun or portable torch. Under no circumstances shall fuse taps or crimp tee-taps be used to interface with OEM wiring.

MOUNTING OF EQUIPMENT

All FastLane added equipment to be mounted in accordance to manufacturers specifications. All interior cab items to be mounted with airbag safety standards followed. Modifications to the OEM frame assembly or suspension systems are prohibited. Any modification to bumper systems must be done such that not more than 10% of the entire surface area of the bumper assembly is breeched or modified. All cuts made to any chassis or body panel must be sealed with self-galvanizing, anti rust sealer prior to equipment being mounted. All exterior hardware including screws and fasteners to be minimum of 18-8 stainless steel. All exterior lighting and thru-body equipment shall be fastened to the sheet metal of the vehicle using approved riv-nut fasteners, allowing the use of machine thread screws. The use of sheet metal screws directly into the body skin is prohibited.

POWER DISTRIBUTION (noise free power)

The main FastLane power feed is rated for 200% of total expected ampacity of the carried load. One large gauge cable run from vehicle's battery bank must be circuit protected within a minimum distance of 24 inches from power source (battery) and have the ability to be disconnected by user quickly in the event of emergency or maintenance. This protected power feed will power all FastLane added appliances and warning systems. Specified, lug style power studs will be located in vehicle console and rear cabinet (if specified) to provided clean, capable power. Additionally main ground studs shall be placed in the front console and rear cabinet (if specified) for clean, noise free central grounding of all equipment. These ground cables shall be of matching size to main power feed and be bolted to frame rails using stainless steel fasteners and coated with approved sealing compound.

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Lightbars & Roof Lighting

As it is necessary to make an opening in the vehicle roof for lightbar cable(s) to be routed, proper and effective sealing of these hole(s) is of paramount importance. All wire holes through the vehicle roof will be protected with self-sealing, waterproof, hole-grommets when clearance is available (otherwise FastLane shall seal the hole using standard pliable "duct" seal agent).

FASTLANE SHALL SUPPLY/INSTALL THE FOLLOWING ITEMS:

Quantity: 1 Manufacturer: SOUND OFF Model: ENNLB011E1-26F

Description: 54" nFORCE NXT Lightbar with R/G/W Corners, R/B/W Front, R/B/A Rear

Mounting Location: Roof - Front (Over Driver's Door) Switching/Routing: Front Switch Panel

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Emergency Lighting & Signal

All strobe cable terminations will be made in accordance with the original manufacturer's recommendations, and will be performed using appropriate, proprietary tooling. Further, all connections between fixtures and cabling will be made with Packard-brand weatherproof connectors wherever the likelihood of extensive exposure to the elements exists. Finally, all strobe cable terminations at the power supply(s) are to be clearly marked to identify their destination. Recognizing that a proper functioning reverse alarm is of tremendous safety importance, said alarm is to be engineered to function irrespective of whether the FastLane electrical system is on and functioning.

FASTLANE SHALL SUPPLY/INSTALL THE FOLLOWING ITEMS:

Quantity: 1 Manufacturer: - Model: FP100WSIREN

Description: FastPlex 100W Siren, 15 Tone Selectable, with Hands-Free

Mounting Location: Electrical Access Compt. Switching/Routing: Front Switch Panel

Special Note:

Quantity: 4 Manufacturer: SOUNDOFF Model: EMPS1STS4RBW

Description: mpower 3 Inch Grille Stud Mount, Black Housing, 12 LED, Tricolor - Red/Blue/White

Mounting Location: Grill - Built-In Switching/Routing: Front Switch Panel

Special Note: Mount to the cross bars on front grille.

Quantity: 2 Manufacturer: SOUNDOFF Model: EMPS2004X-F

Description: 4 Inch mPower Fascia with Quick Mount, White Housing, Amber/White

Mounting Location: Bumper, Rear - Built-In Switching/Routing: Front Switch Panel

Special Note: Flash Amber with emergency lights. Burn WHITE steady in REVERSE or when rear liftgate open.

Quantity: 2 Manufacturer: SOUNDOFF Model: EMPSA05BU-8

Description: mpower® Fascia 4x2 Light, Quick Mount, Black Housing, Tri-color R/W/B

Mounting Location: Fenders (Both) - Front Switching/Routing: Front Switch Panel

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Quantity: 2 Manufacturer: SOUNDOFF Model: EMPSA05BU-8
Description: mpower® Fascia 4x2 Light, Quick Mount, Black Housing, Tri-color R/W/B
Mounting Location: Fenders (Both) - Rear Center Over Wheel Switching/Routing: Front Switch Panel
Special Note:

Quantity: 2 Manufacturer: SOUNDOFF Model: EMPSA05BU-8
Description: mpower® Fascia 4x2 Light, Quick Mount, Black Housing, Tri-color R/W/B
Mounting Location: Body, Rear Switching/Routing: Front Switch Panel
Special Note:

Quantity: 1 Manufacturer: SOUNDOFF Model: ETSS100J
Description: 100J Series Composite Speaker w/ Universal Bail Bracket - 100 watt (USE 100U Speaker)
Mounting Location: Bumper, Front - Behind Switching/Routing: to Console
Special Note:

Quantity: 6 Manufacturer: SOUNDOFF Model: PMPSABZ02C
Description: Chrome Mounting Flange for mPower 4x2 LED
Mounting Location: *SEE NOTES BELOW Switching/Routing: *STD
Special Note: Mount for 4x2 LEDs

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Interior Items & Work Lighting

All interior items are to be mounted in approved brackets or straps and are to be secure in mounting method. Any items mounted in the cab of the vehicle are to be mounted such that they do not interfere with the normal function of the driver or driver's airbag and SRS system. Any swing arm devices mounted in the passenger area shall be delivered in the position that will not interfere with the passenger airbag system (if so equipped). It is the responsibility of the user to ensure that these devices are not adjusted, stored or moved into the path of said SRS systems.

FASTLANE SHALL SUPPLY/INSTALL THE FOLLOWING ITEMS:

Quantity: 3 Manufacturer: Tecniq Model: E13-LS00-1

Description: SilhoX 2.75 Round Neutral White LED Flood

Mounting Location: Liftgate, Rear - Interior Surface Switching/Routing: Door (Rear Open)

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Communications

The following equipment shall be installed per any and all manufacturer's recommendation. Power (12V+) supplied to this equipment shall run straight to the battery (or utilize the main FastLane noise free feed) of the vehicle on a minimum of #6 gauge cable to minimize noise. All grounds shall be common and run to chassis frame using a minimum of #6 gauge cable to minimize noise. All weather-exposed connections must be coated to prevent corrosion. Any auxiliary speakers specified by below must be installed and have power and resistance ratings matching those of the speaker outputs on the equipment. Any cable runs to these speakers longer than 24" must utilize a minimum of 18 Ga., shielded, approved speaker cable.

All listed radio equipment to be tested and operate within manufacturer's specifications prior to delivery of the vehicle described herein. The radios must be noise free (less than 10dB of spurious noise per unit) and be functional upon delivery (please note that it may not be possible to test all aspects of transmission and reception on Client's system. FastLane shall not be responsible for defects or damage to customer supplied radio equipment prior to possession by FastLane. All equipment shall be provided to FastLane, free from defects, programmed and in good working order. FastLane does not have the capability to program all makes and models of radios, therefore it shall not be the responsibility of FastLane to insure proper function of the radio systems if any radios are supplied in an un-programmed state. Further, some systems require a home signal in order to function and therefore cannot be 100% tested at the FastLane facility).

FASTLANE SHALL SUPPLY/INSTALL THE FOLLOWING ITEMS:

None

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Console

FastLane will provide and install a custom front console to house all necessary switching, signaling and communications controls, as well as cup holders, map books and 12-volt power-points, as specified below. The primary console construction, if fabricated by FastLane (sides, front, rear), shall be of cabinet grade "lumber core or veneer core ply material, covered in coordinating, finish as indicated below. Where map book or other slots are provided, these spaces shall also feature automotive carpeting. Whenever functions of the OEM installation are interrupted by the console such as rear radio, HVAC controls and ducting, these features shall be reintegrated into the new console (where possible). Installation of console includes mounting of all equipment listed herein for control and use by driver and passenger. FastLane reserves the right for production changes that require adjusting console appliance locations to fit according to size and use. Any mic clips will be shipped loose for installation by dealer or at time of delivery. Consoles are fastened to vehicle chassis using threaded fasteners to floor. A dashboard support may be added for stability if needed. The face surface (top) of all front consoles shall be constructed of .090 aluminum sheet(s). These faceplates will be cut to size using CNC techniques. All holes necessary in the faceplate (radios, switching, etc) will be die-cut to a maximum allowable tolerance of +/- 0.05" through the aluminum. Gaps around mounted appliances will not be tolerated and shall be deemed unacceptable. The finished product will feature rounded edges and corners to prevent injury to people or equipment. These faceplates shall be finished with a black polyester powder-coat finish, producing a textured/wrinkle, scratch resistant coating.

TYPE OF CONSOLE

FastLane Contoured ☒

FastLane Box Style ☐

None/Non-FastLane ☐

CONSOLE FINISH

Exterior Coating: Polybuild Coating

CONSOLE OPTIONS/PARTS

Included in console selected above (or in lieu of console if None Selected), FastLane shall install the following options/parts:

Quantity: 1 - MAPSLOT

Description: Open Map Storage (one per divider)

Special Note:

Quantity: 2 BECKSON - CUPHOLDER

Description: Cup Holder Oversized Marine Style

Special Note:

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Quantity: 1 BLUE SEA SYSTEMS - DUSB-FAST

Description: Fast charge Dual USB Charger, 4.8A (total)

Special Note:

Quantity: 1 MARINCO - 12VPP00

Description: 12V Power Point Receptacle Cigarette Lighter Style

Special Note:

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Rear Cabinetry

This Vehicle Shall
Have a FastLane Rear Cabinet.

Installation of cabinet includes sizing and fitting to vehicle interior. FastLane shall utilize a minimum of four 3/8" diameter grade 5 carriage bolts to fasten the cabinet system to vehicle substructure or frame. Where possible cabinets shall be mounted through structural floor members such as frames or reinforcing plates; however, where mounting to body floor skin only FastLane shall utilize a minimum 4" diameter reinforced 3/16" thick steel plate for connection strength. All hardware utilized shall be rated at 150% of anticipated use and shall be coated to avoid rust and corrosion. All wood used in construction shall be lumber or veneer core ply. The cabinet shall be constructed using " LC/VC ply and be nailed, glued and screwed together at all fixed joints. All exposed edges shall be covered in a coordinating laminate or rubber edging. FastLane reserves the right for minor (cosmetic) modifications to the cabinet's design during final mounting.

Please refer to any FastLane supplied construction drawings for better illustration. However, the specifications within this document shall always supercede any illustrations, depictions or references made by any drawing, design or sketch. Equipment or installation of equipment not listed herein shall be considered for illustrative purposes only and not part of contract.

FINISH SCHEDULE

Color: BLACK

The

INTERIOR

of this cabinet shall be covered using Polybuild.

The

EXTERIOR

of this cabinet shall be covered using Polybuild.

If Interior Finish above is Polybuild, all edges shall be rolled back using a " radius round and the interior coating shall be sprayed to seal against the exterior coating option listed above. In the case of other interior finish options, the exposed edges and side edges to be covered in minimum of 1/8" thick rubber bumper edge, tee-molding. All non-locking doors shall be constructed from " smoked acrylic with composite D-Ring style slam latch. All drawers shall be constructed from " VC Ply coated in gray Polybuild coating with 1/8" aluminum face coated in black powder coat finish (unless HDPE option is listed below). Drawer latches to be Southco C2 all metal panel latch using infinite adjustment feature and black matte finish.

FEATURES

Cabinet Shall Include 1 - Rear Cabinet Control Center

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Cabinet Shall Include 1 - Flip-Up Command Board Option

Special Note:

Cabinet Shall Include 1 - Command Drawer, 24" Deep

Special Note:

Cabinet Shall Include 1 - Sundry Drawer, 24" Deep

Special Note:

Cabinet Shall Include 1 - 12V Power Point Cigarette Style Receptacle

Special Note:

Cabinet Shall Include 1 - Command Drawer Front Load Faceplate Option

Special Note:

Cabinet Shall Include 1 - Fast charge Dual USB Charger, 4.8A (total)

Special Note:

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Graphics - Lettering

FastLane shall utilize only premium cast vinyl with a minimum life rating of 3 years outdoor durability on printed and gradient materials and a minimum of 5-years outdoor durability on all other lettering and striping materials. All efforts shall be made to avoid any bubbles or contaminants in the vinyl field, however small visual imperfections in vinyl are common. While a blemish free application is desired, any blemishes that cannot be seen with the naked eye by a reasonable witness from a distance of not less than three (3) feet shall be deemed acceptable and deliverable. In an effort to conform stiff materials such as reflective vinyl around complex curves, it may be necessary to perform "slack folds" inside door jambs and behind lighting fixtures, this practice shall be performed as little as possible, however some wrinkling in the vinyl may exist in these areas.

FASTLANE SHALL SUPPLY/INSTALL THE FOLLOWING ITEMS:

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Graphics - Striping

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Exterior Accessories

All exterior accessories shall be matched to vehicle make and model and installed following manufacturer recommendations and instructions. By no means shall the original vehicle be modified (structurally) in order to install the equipment listed on this page.

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Electrical Control Center & Summary

This section shall outline the total loads added in previous sections as well as list all control, distribution, electrical upgrades and management devices. The FastPLEX Multiplexed Electrical System is an advanced CAN BUS based control system specifically engineered for FastLane to provide reliability, vehicle specific function and control for this type of conversion. FastPLEX features J-1939 CAN BUS communications, scalable control modules, solid-state switching of ALL loads, integrated flasher and specialized functions, primary touch screen message display center for operator interface, audible prompts. All functions are fully programmable via laptop computer. The actual distribution of power occurs using solid-state module(s) which are standard and interchangeable with other like conversions produced by FastLane. FastPLEX features built-in load management and control and provides system status feedback to the user via a full color 4.3-inch touch screen located in view of the driver. Real time switch feedback tells the user the status of each output during automatic operation. FastPLEX features quick start for all "eMaster" switched circuits allowing soft start turn on prolonging charging systems and extended load life. All loads are protected using solid-state circuit protection. This system shall interface with the OEM circuitry via a no-load interface. This module shall sense all OEM functions via computer signal and relay that information on the CAN BUS network for use by any module via programmable function. The front touch screen panel is unitized, modular and communicates with all modules via CAN BUS communications on two wires running a redundant loop. This control panel is a common part found in all conversions produced by FastLane, such that it could be interchanged with a panel from a similar vehicle. This touch screen panel features full color display with vehicle icon feed back of system status, CAN BUS communications and is fully programmable for easy screen reconfiguration in the future. The touch screen is fully IP67 compliant and is fully weather resistant. Every FastPLEX system includes one front touch screen display (FP3820) and one main control module (FP2306) yielding 16 inputs and 28 solid state outputs. Additional modules provided if specified below.

ELECTRICAL LOAD SUMMARY

Vehicle OEM Alternator: 150

Total Amperage Added: 0

Reserve Amps: 150

Percentage Reserve: 100%

Note: If percentage reserve is less than 25%, FastLane highly recommends the addition of further electrical conditioning devices including a high-idle and/or upgraded alternator.

Quantity: 1 Manufacturer: KUSSMAUL Model: 091-20WP-120

Description: Auto Eject 20-Amp 120V

Mounting Location: Fender Driver's - Behind Door Switching/Routing: Start

Special Note:

Quantity: 1 Manufacturer: PROGRESSIVE DYNAMICS Model: PD9245C

Description: 45-AMP CHARGER, WITH BUILT-IN CHARGE WIZARD

Mounting Location: Electrical Access Compt. Switching/Routing: 110V Shoreline

Special Note:

ACCEPTANCE AS WRITTEN:

By Placing your initials in the space to the right as an authorized representative for Client/Department do attest to the accuracy of the information listed on this page, and confirm acceptance of the information as written.

Sales Agent Initials:_____

Client Agent Initials:_____