

FALCON



2025 FALCON XB3

LIGHT MEDICAL & CARGO TRANSPORT VEHICLE
Fleets ONLY





2025 FALCON xB3m

Showcasing a modern, electric driven cross utilization medical services On-Road / Off-Road Vehicle, The xB3 key technology is the continuous Electric/Gasoline drive system

With an effective unlimited range and versatility, the xB3 is a capable all terrain transportation vehicle.

As all-terrain transportation needs continue to evolve, electric range extended vehicles are playing an increasingly important role in creating more efficient, environmentally friendly, and accessing rural areas with limited to no infrastructure support

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Interior and Functionality

The interior functions in specialized vehicles continuously evolve with technology and design advancements. Falcon xB3 is equipped with modern and future-oriented features that enables the vehicle to continuously evolve during its lifetime



Prototype shown, Full Armor Variant, computer generated



Interior and Functionality Medical / Fire Rescue



Prototype shown, North America specification, computer generated

The interior functions in specialized vehicles continuously evolve with technology and design advancements. Falcon xB3 is equipped with modern and future-oriented features that enables the vehicle to continuously evolve during its lifetime

Flexible configuration based on mission requirements, whether transporting large number of refrigerated vaccines, blood banks or transporting patients the xB3 can be rapidly configured to carry any or combination of these functions

Minimalist Design: Falcon xB3 feature minimalist interior designs with clean lines and uncluttered spaces. The absence of a traditional internal combustion engine drive system allows for more creative interior layouts.

AI Integration: Artificial intelligence (AI) is integrated into Falcon Vehicles functions DMS™ provides personalized driving experiences. AI systems learns driver preferences, adjust settings, and offer proactive suggestions. ++





Versatile Interior: The interior of the xB3 was designed to be versatile, with configurable seating arrangements. The design emphasized creating a comfortable environment for operators and patients.

Large primary core screens:

xB3 equipped with large touchscreens that serve as the central hub for patient information, navigation, and vehicle controls.

Advanced Connectivity:

- Advanced connectivity features, including smartphone integration, OTA updates, and the ability to control certain vehicle functions remotely through dedicated apps and through open API
- StarLink connectivity enables the xB3 live information transfer including Video conferencing

Spacious Interiors:

The absence of a traditional engine drivetrain components in the vehicles resulted in a more spacious interior. This led to a highly configurable interior.

Biometric Sensors:

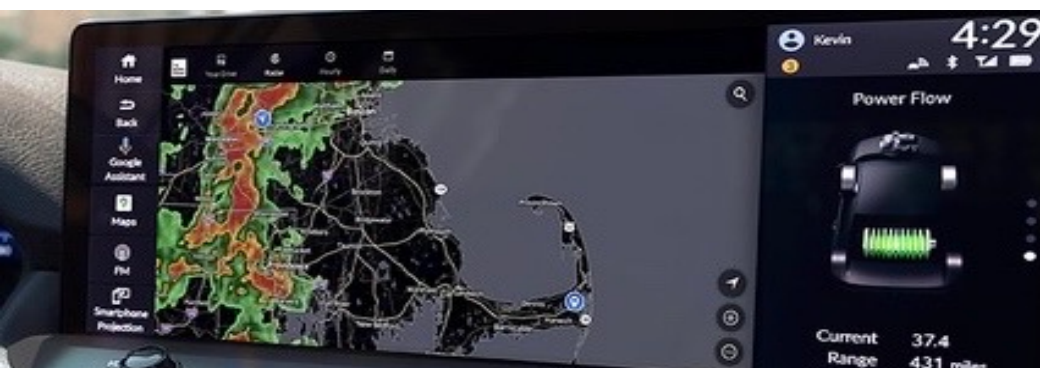
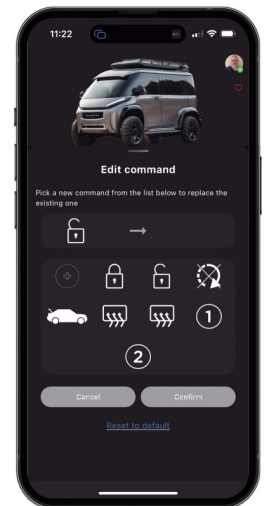
Biometric sensors, such as facial recognition or fingerprint scanning, can be used for vehicle access, personalization of settings, and enhanced security features.





Prototype shown, computer generated

- Open API telematics architectural allows customer specific integration such as B Medical RTMD
- Optional Live video conference between vehicle and Medical service providing facilities **xB3m**
- Advanced Connectivity: Falcon xB3 offer advanced connectivity features, including smartphone integration, over-the-air software updates and the ability to control certain vehicle functions remotely through dedicated apps.
- ++
- 360 remote access camera ***
- Optional StarLink satellite based internet connectivity
- Satellite Weather forecast, maps and warning



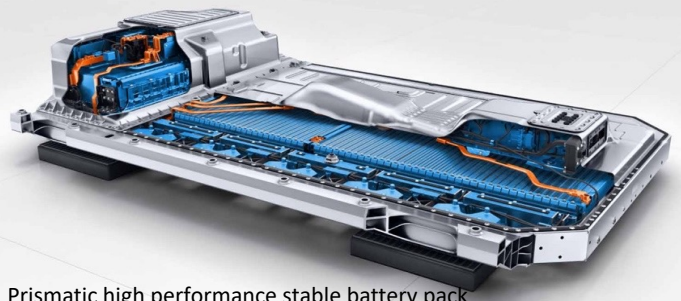
Technology and Manufacturing

Two asynchronous Borg Warner three-phase AC motors, one each at front and rear axle

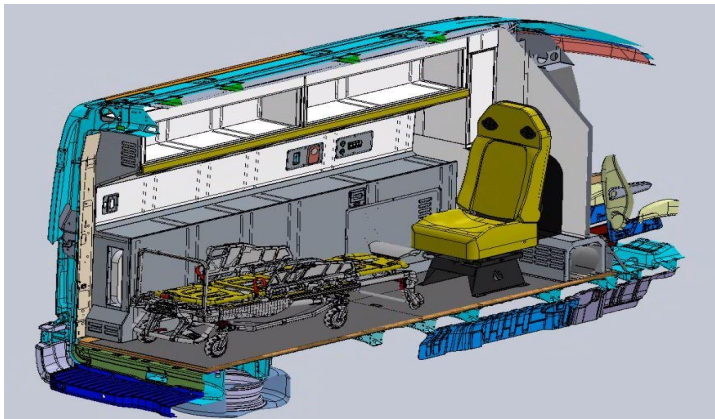


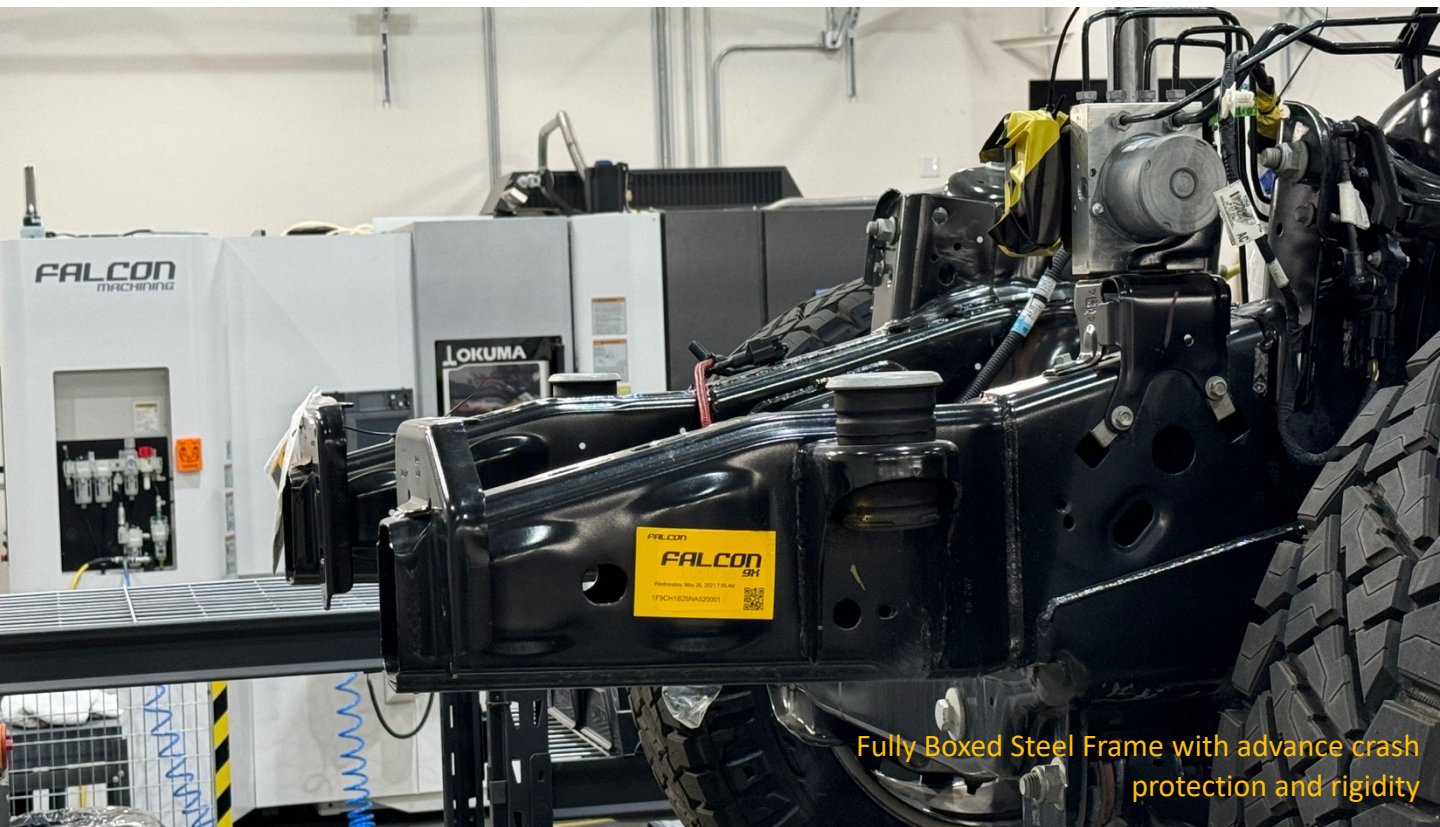
Core value for xB3 is the driving functionality of the vehicle, our design principal is that technology should not affect the core vehicle mobility

Advanced integrated steel and carbon-fiber unified vehicle platform



Prismatic high performance stable battery pack





Advance integrated steel, Aluminum and carbon-fiber unified vehicle platform

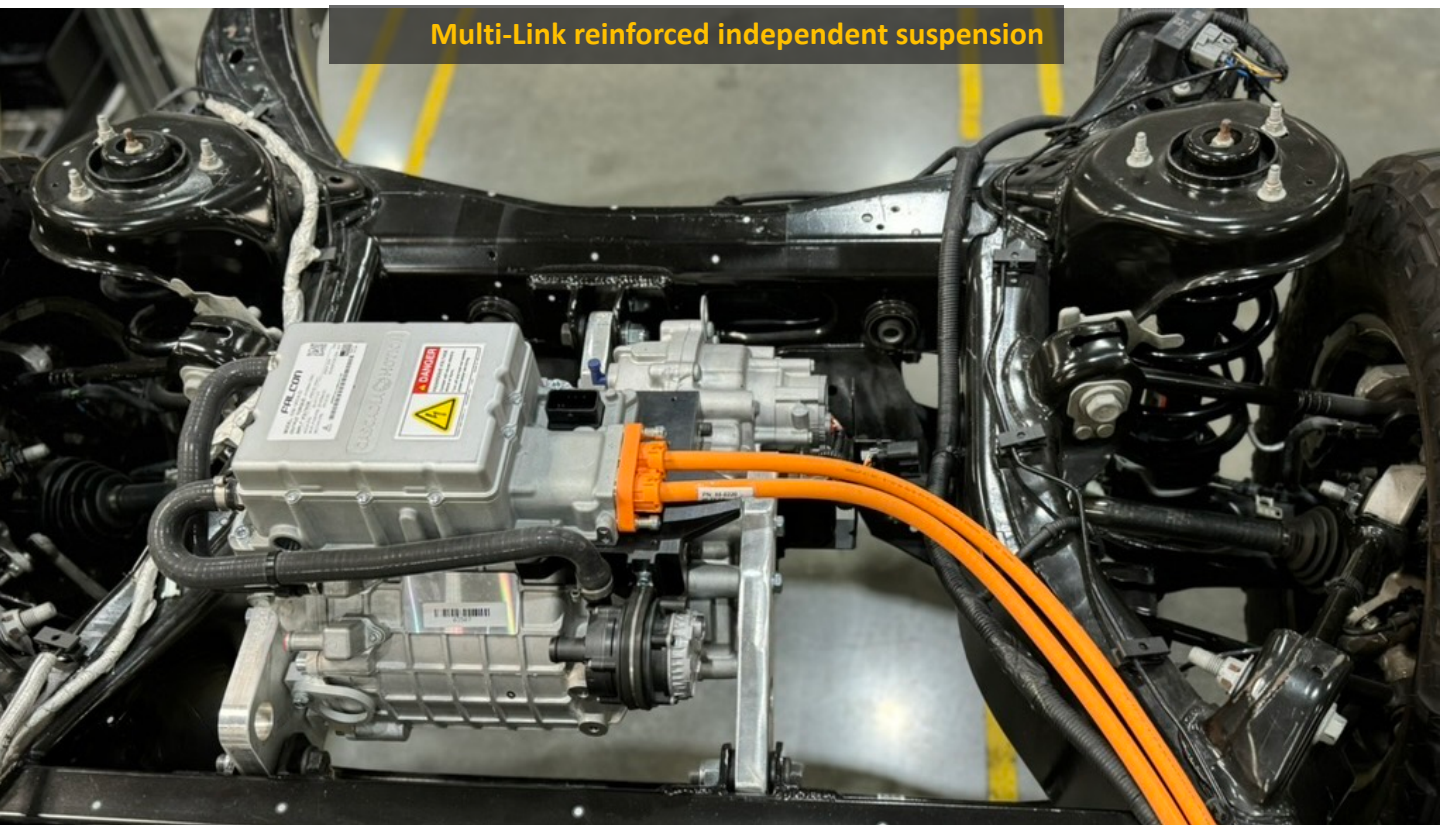


Prismatic high performance stable battery pack



Second Axle Suspension

Multi-Link reinforced independent suspension



Full Skid plate Armor protection



Electronically Disconnecting Sway-bar



Bilstein Off-Road Shocks and Struts



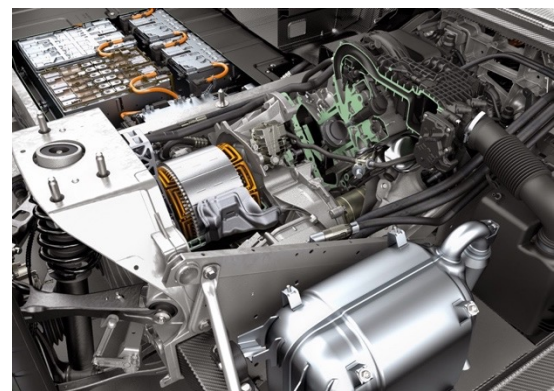


Falcon Interface3™ utilize onboard Artificial Intelligence “AI” to accurately predict range and optimize performance settings. The system prioritize achieving a long driving range per charge. The xB3 offers a substantial range on a full battery charge.



- Triple redundant critical on-board system improves performance and enhances safety
- Fully Box Ford made Chassis

More kilometers of range with Range Extender: The Gasoline engine drives a generator for the production of electricity, extending the vehicle’s range up to 1,140 kilometers. The Range Extender is automatically activated



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Falcon Developed Technology:

Onboard Generator:

-Falcon xB3 can operate as a continuous 50kW generator able to provide electric energy for external use utilizing onboard gasoline fuel and/or battery system.. This allows the vehicle to act as a central hub and a micro Power Generation facility in remote areas, emergencies and during power outages..

-The onboard generation includes distribution panels and circuit breakers



FORD COMPONENT SALES, LLC

Ford 2.3L EcoBoost Engine

Technical Specifications

Engine Type: 2.3L EcoBoost
Block / Head: Aluminum / Aluminum
Bore x Stroke (in): 3.45 x 3.7
Displacement (liters / cu. in):
2.3 / 140
Compression Ratio: 9.5:1
Fuel Injection: Direct Injection
Induction: Single twin-scroll
turbocharger
Fuel Requirement (octane):
87 (min.) / 91+ (rec.)
Exhaust Manifolds: 3-port integrated
into aluminum head
Power (HP @ RPM): 310 @ 5500
Torque (lb.-ft @ RPM): 350 @ 3000
Oil Capacity / Spec:
6 qts / SAE 5W-30
Weight (lbs.): 311
Dimensions (mm) H x W x L:
746 x 665 x 643



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Prototype shown, North America specification

Falcon Developed Technology:

Fully Configurable Drive Modes:

1-Default selectable drive model is Electric drive with Range extending gasoline motor extending the range and increasing the power.. This gives the most power with the longest range.

2-Electric only mode:

Allows the operator to drive the vehicle in electric only in the event silent operations are required or due to the lack of fuel availability

3-Gasoline Only:

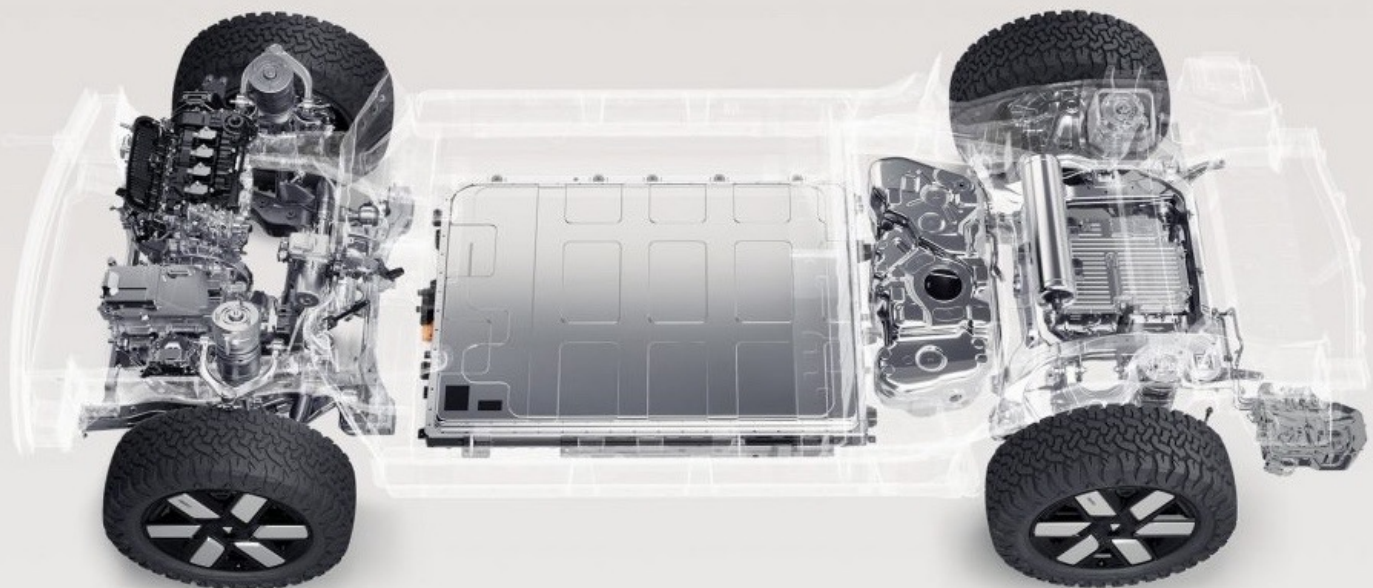
While limited on performance it allows the operator to conserve electric range for secondary operations such as providing onboard power for high demand operations such as x-Ray or facility main power.. Another use of this mode is conserving electric power for a portion of a trip that lacks availability of charging stations.

4-Electric First Gasoline Second:

This mode is designed for operations when the electric charging station is closer on a trip than a gasoline station

5-Gasoline First Electric Second:

This Mode is designed for operations when Gasoline Station is closer on a planned trip than an Electric Vehicle charging station



Prototype shown, North America specification

Dynamic Mode Selector:

Falcon 4th Generation Dynamic Mode Selector (DMS™) is designed specifically for high work-load operator environment.. The single knob allow the operator to change functionally and setup of multiple systems without needing visual detailed references, it is also designed to avoid utilizing any specific language cues and be intuitively operated.

The DMS™ allows the operator to manipulates dynamic set of functions through selection or in full Automation mode. The vehicle onboard system manages functions once the operator presses the A switch on the selection knob.

Key Functions:

- Drive Mode
- Suspension drive setup
- Climate systems
- SOS operations
- Maintenance and vehicle health
- Patient Vital Sign monitoring and actions

Example 1:

1-DMS™ detects off mapped road conditions, DMS™ mode function activates the following:

Suspension Drive Setup, Vehicle Off-Road light package, Enables on Screen off-Road indications. Operator can quickly command any of the functions or Select the Automation switch which activates all prioritized functions.

Example 2:

2-DMS™ detect a significant change in patient Vital conditions, DMS™ mode function activates the following:

Patient Vitals condition window takes over the Primary Display, Rear interior lights activates, Patient Camera activates on Secondary Display, Emergency lights function page opens for the operator.. Operator can quickly command any of the functions or Select the Automation switch which activates all prioritized functions.





xB3
xB3m

2025 Specifications:

Item	Value	Standard	package	Region
Type	Specialized Medical Transport	S		ALL
Seating	Configurable, 3 PAS + Patent + Cargo	S		ALL
Drive System	Dual electric Motor 4 wheel drive with Gasoline Range Extender	S		ALL
Suspension Type	All terrain off-Road tuned	S		ALL
Front Suspension	Double Wishbone	S		ALL
Rear Suspension	Multi link independent suspension	S		ALL
Motor	asynchronous three-phase AC motors	S		ALL
Power	620 hp @ 4800 rpm / Intella-Torque 640 ft lb		O	ALL
Voltage	420V	S		ALL
Battery technology	Prismatic Lithium Battery pack	S		ALL
Standard Range	1100 km /340 km on pure electric	S		ALL
Range Extending system	Gasoline 6 cylinder IC motor generator directly coupled	S		Mena / Asia / Africa
Range Extending Fuel type	Gasoline min. 89 Octane	S		ALL
Range Extending Fuel capacity	110 Liters	S		ALL
Load Capacity	1200 kg	S		ALL
Length x Width x Height	5534mm x 2065mm x 2090mm	S		ALL
Curb Weight	2750 - 6600 kg	S		ALL
Top Speed	160 km (electronically limited)	S		ALL

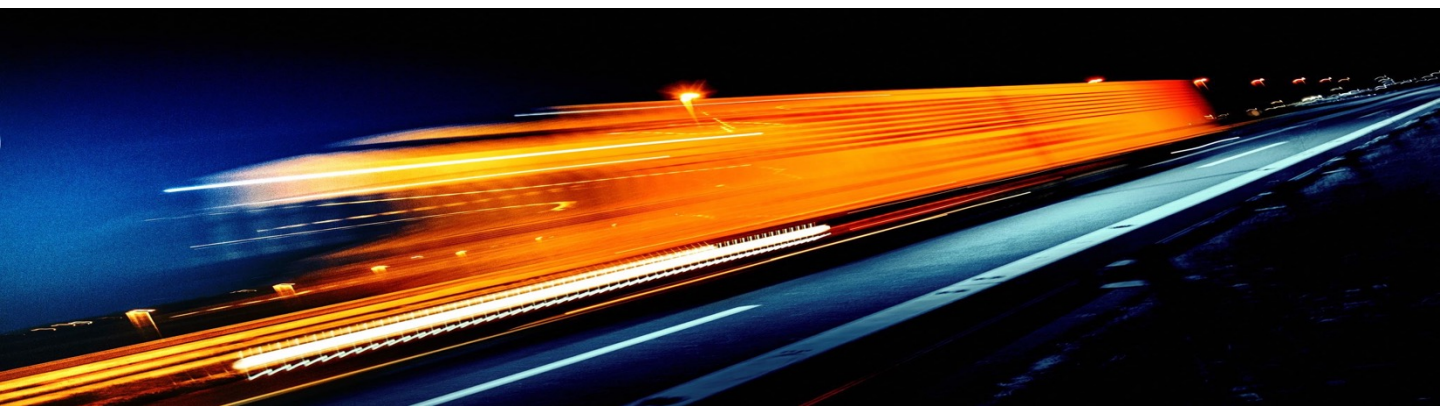


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2025 PACKAGES & OPTIONS:

PACKAGE	CONTENT	PACKAGE	CONTENT
Hot Climate package (F3X1)	High capacity Engine cooler	Medical Support 1 (F3MS1) Standard on xB3m	Static Stretcher single Patient
	High Capacity Electric motor cooler		Interior extended ultra bright lights
	High Capacity HV Electric Battery cooler		Red Interior light for dark operations
	High Capacity Air conditioning		Fully blocked rear windows
	Increased interior insulation panel		Mobile defibrillator
	Customer Refrigerator external ventilation		Vital Sign Patient monitor with remote front screen
	accelerated interior dehumidification		Extra Power ports for Radios / computers / acc.
	built in sun shades (Windshield / side glass)		Emergency lights package
B Medical systems specific	Dual A/C units		Extended Rear Bumper
	WindShield UV protection coating		External work roof lights
	Exhaust manifold electric blower fans		
Cold Climate Package (F3Y2)	Heats Windshield	Extended Mobility (F3T1)	Requires F3M1 package
	Heated Mirrors		Front skid plate
	Rapid supplemental heat		Secondary Battery skid plate
	FRF Battery heating technology		Front Winch
	Grill vent louvers		Side Roof Work lights
	Increased interior insulation panel		Extended ground clearance
	Rear independent heater	Connectivity Package (F3C1)	in Vehicle WIFI
	Heated 360 cameras (if equipped)		Telematics data
	Electronics warming elements		Remote access
	Defogging clusters and screens		*Requires cellular network service*
	Heated Seats		
	Available plug for heated stretcher	Connectivity Package 2 (F3C2)	F3C1 package standard
	Heated Steering Wheel		StarLink global internet service
	Roadside safety Package		Extended wifi service in the vicinity of the Vehicle
			Requires StarLink subscription
Increased Weight Package (F3M1)	Large capacity suspension	Security Package 1 (F3A1)	LEVEL III partial Ballistic Protection
	Increased Wheel hub capacity		Armored Driver & Passenger Door(LVL-III)
	4 piston large front brake calipers		Driver and Passenger Door window (LVL-III)
	Large ventilated Brake rotors		Armored frontal Firewall
	Reinforced carbon fiber Core frame		Armored Forward Bulkhead
Safety & Aid Package 1 (F3FA1)	Increased tire load capacity		Shielded main vehicle electronics
			Requires F3M1
			windscreen is not protected
			Vehicle systems are not protect with F3A1
			No over Lapping Protection



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Prototype shown, North America specification