



Ambulance Operator's Manual

Fleet Max 2.0
Type III Ambulance

Table of Contents

Introduction	5
Purpose	5
Scope	5
Contact Information	5
Record of Revisions	5
Labels and Definitions	6
Vehicle Overview.....	7
Key Components.....	7
Vehicle Specifications	8
Ambulance Exterior	9
Label.....	11
Safety Practices	15
General Safety Practices.....	15
System and Equipment	16
Reporting Safety Defects	17
Compliance with Provincial Standards and Warranty Terms	18
Warranty.....	18
Fire Extinguisher	19
Emergency Door Release	19
Wheel Nut Indicator (Optional).....	20
Operator Controls	21
Front Center Control.....	21
Street-Side MCC	23
Curb-Side MCC	23
Touchscreen Controls	25
FCC Touchscreen	25
MCC Touchscreen	29
Pictogram.....	34
Pictogram Meaning	34
Standard Systems	37
Anti-Theft.....	37
High-Idle	37
OEM High-Idle.....	38
Anti-Idle (ECO).....	38
Automatic Functions.....	40
Back-up Alarm.....	41
Park Assist (If Equipped).....	42

Electrical System	43
DC System	43
AC System	45
Radio System	48
Siren	49
Lights	50
Emergency Lights.....	50
Day/Night Mode (If Available).....	51
Smooth Pattern (If Available)	51
Scene Lights.....	52
Exterior Lights	53
Chassis Lights	54
Ground Lights (If Equipped)	54
Patient Compartment Lights (Ceiling Lights).....	54
Cabinet/Compartment Lights.....	55
Driver Intention Lights (If Equipped).....	55
Driver's Cabin	56
Cabin Reading Lights	56
Talk-Through Sliding Window (If Equipped).....	56
Walk-through With Door (If Equipped)	57
Coat Hooks (If Equipped)	57
Laptop Pocket (If Equipped).....	57
Additional Radio Head (If Equipped)	58
Upgraded AM/FM/Stereo (If Equipped).....	58
Ignition Keys and Fobs.....	58
Console Mount With Lid	58
Cab Door Pocket (If Equipped)	58
Patient Compartment Accessories.....	59
Suction System	59
LED Flashlights (If Equipped).....	60
Cabinets	61
Kit-Tree.....	62
IV Warmer (If Equipped).....	63
Incubator Restraints (If Equipped)	63
Clock	63
IV Hooks.....	64
Heart monitor Mounting (If Equipped)	64
Oxygen Compartment	66
O2 to Go Oxygen System (If Equipped).....	67

Oxygen Outlets.....	69
Oxygen Flow-meter (If Supplied).....	69
Oxygen Emergency By-Pass Valve (If Equipped).....	70
Electric Oxygen Gauge (If Equipped).....	70
Exterior Accessories	71
Running Boards.....	71
Protective Screens (If equipped).....	71
Valve Extension for Inside Dual Wheel (If Equipped).....	72
Rear Kick Plate.....	72
Wheel Covers (If Equipped)	72
Rear-Step Bumper	72
Mirrors	73
Door.....	74
S1 Door	74
S2 Door	76
S3 Door (Storage)	77
C1 Door.....	78
C2 Door	79
C3 Door	82
R1 Door	83
R2 Door	84
Auto-Unlock.....	85
Stair Chair (If Equipped).....	86
Seats.....	89
Driver's and Passenger Power Seat Bases	89
Patient Compartment Seats	89
Integrated Suspension System.....	95
Liquid Spring Suspension (If Equipped).....	95
Ride Mode Adjustment.....	96
Suspension Kneeling with Rear Door Switch	96
Ride Height Adjustment.....	97
MORryde RS Suspension System (If Equipped).....	97
Patient Loading	98
Maintenance and Care Procedures	101
Exterior Cleaning.....	101
Interior Cleaning.....	101
Seat Belt Inspection	105
Long-Term Ambulance Storage.....	105

INTRODUCTION

Welcome to the Crestline Ambulance Operator's Manual for the FleetMax series. This manual is designed to provide you with a comprehensive understanding of your ambulance's features and operations.

Crestline ambulances are engineered to deliver unmatched performance, reliability, and safety. With a focus on quality and innovation, our vehicles are built to support emergency medical services with the highest standards of care. Whether it's the durable chassis options like the Chevrolet G3500 or Ford E350, the ergonomic interior layout, or the advanced safety and control systems, every aspect of this ambulance is tailored to meet the demands of your critical work.

This section offers an overview of the key components, specifications, and features of your Crestline ambulance, helping you to familiarize yourself with its design and operation.

PURPOSE

The purpose of this manual is to provide ambulance operators, technicians, and other relevant personnel with detailed instructions and information on the operation of various systems within the ambulance driver's cabin and conversion portion of the vehicle. By adhering to the guidelines outlined in this manual, operators can ensure the safe and efficient operation of the ambulance.

SCOPE

The scope of this manual encompasses all essential aspects related to the operation of the FleetMax 2.0 Units. This includes but is not limited to:

- Electrical systems
- Patient care systems
- Vehicle operations procedures
- Safety protocols

CONTACT INFORMATION

Crestline Coach Ltd	126 Wheeler St, Saskatoon, SK, S7P 0A9 Phone: 1-800-363-7591 Email: info@crestlinecoach.com Website: www.crestlineambulances.com For service related inquiries: Phone: 1-800-363-7591 Email: warranty@crestlinecoach.com
---------------------	---

RECORD OF REVISIONS

REVISION NUMBER	ISSUE DATE
1.0	December, 2023
2.0	December, 2024

LABELS AND DEFINITIONS

Warning/Caution/Note Definition

The words “WARNING,” “CAUTION,” and “NOTE” carry significant importance and should be thoroughly reviewed.

WARNING

Alerts the reader about situations that, if not avoided, could lead to death or serious injury to personnel. It may also describe potential serious adverse conditions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

NOTE

Provides special information to make operation easier or important instructions clearer.

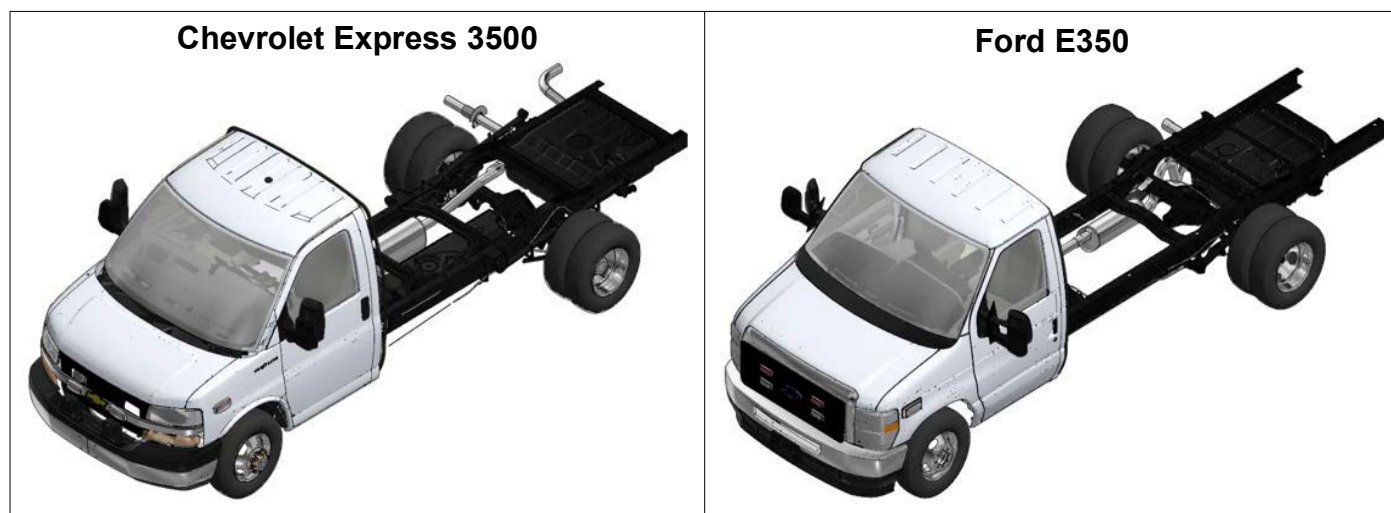
VEHICLE OVERVIEW

This section provides essential information about the vehicle's structure, components, and operational features to help you familiarize yourself with your ambulance. Understanding these elements ensures safe, efficient, and effective operation.

KEY COMPONENTS

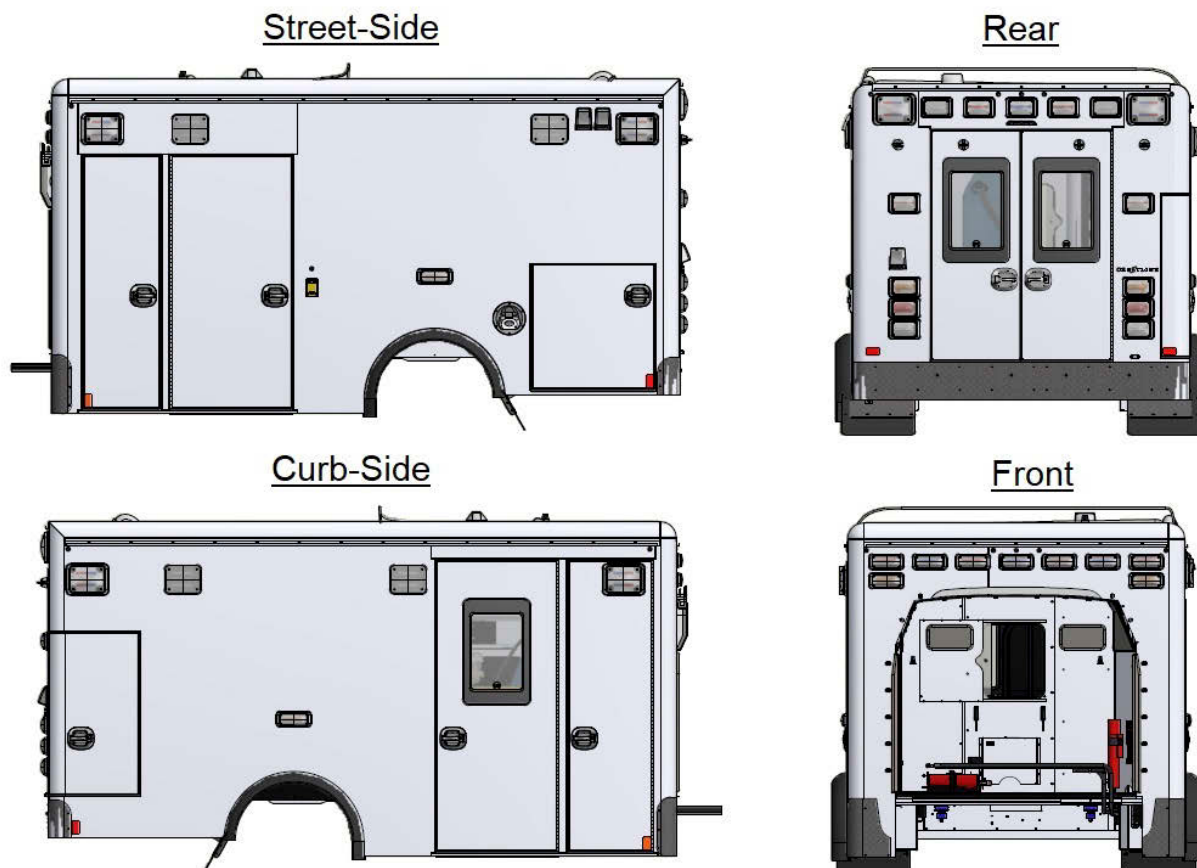
Chassis:

Crestline offers two chassis options: Chevrolet Express 3500 and Ford E350. Both provide a durable foundation, ensuring reliable performance in demanding conditions.



Patient Compartment (Box):

Also referred to as the “Box”, the patient compartment is designed for ergonomic efficiency. It accommodates up to four personnel and provides ample storage for essential medical equipment, ensuring a well-organized and functional workspace for patient care.



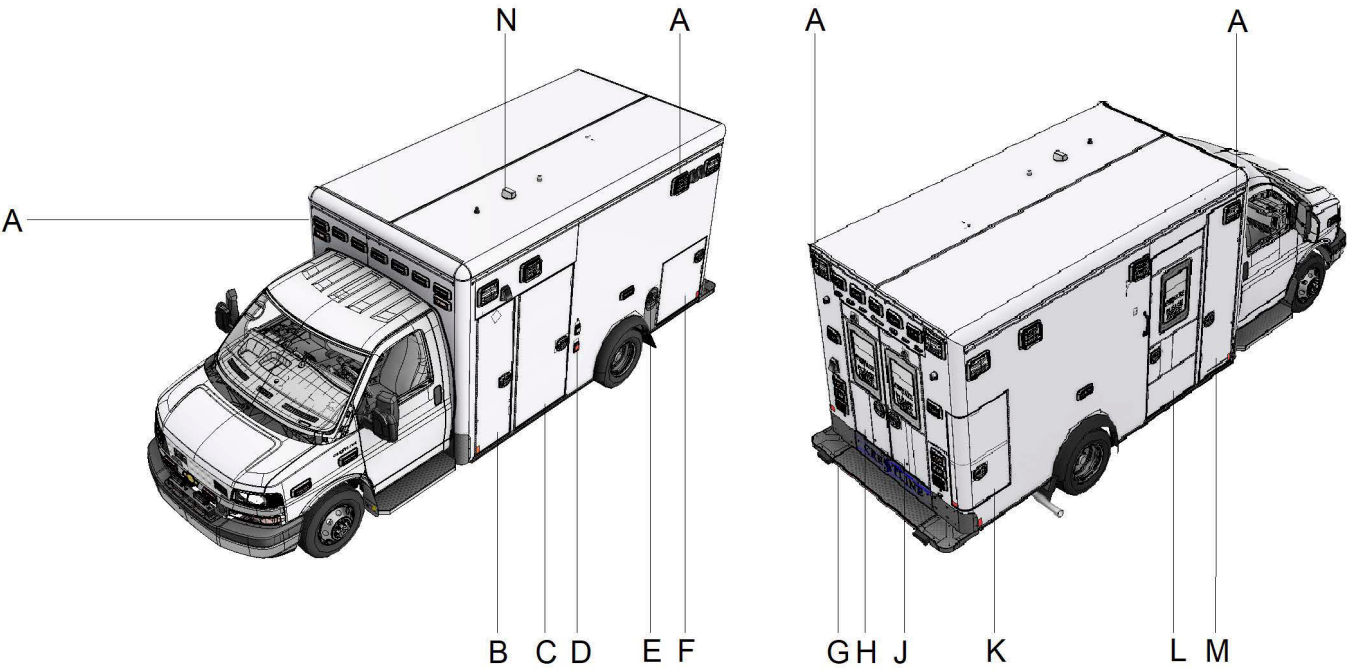
Electrical System:

Crestline ambulances feature an advanced electrical system that ensures seamless power distribution to critical equipment, lighting, and control systems. Each ambulance includes a dedicated Electrical Control Center (ECC) compartment that houses the electrical modules. Depending on the configuration, Crestline ambulances are equipped with either ACETECH or PRAN electrical module systems, which efficiently manage and control various electrical components and functions.

VEHICLE SPECIFICATIONS

Chassis Model	Chevrolet G 3500	Ford E350
Ambulance Type	Type III	Type III
Module Length	164 in.	164 in.
Module Width	88 in.	88 in.
Vehicle Overall Length	270 in.	276 in.
Vehicle Overall Height	• Standard box, 103 inches • Tall box, 107 inches	• Standard box, 103 inches • Tall box, 107 inches
Headroom	• Standard box, 68 inches • Tall box, 72 inches	• Standard box, 68 inches • Tall box, 72 inches
Seating	1 Driver 1 Passenger 1 Airway seat 1 CPR seat (optional) 1 Flip-up seat (optional) 1 High mobility sliding seat or squad bench (optional)	1 Driver 1 Passenger 1 Airway seat 1 CPR seat (optional) 1 Flip-up seat (optional) 1 High mobility sliding seat or squad bench (optional)

AMBULANCE EXTERIOR

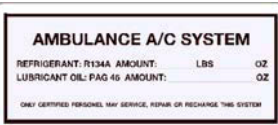


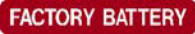
	Name	Function
A	Emergency lights	Refer “Emergency Lights” for more information.
B	Oxygen Compartment (S1 Compartment)	The oxygen compartment is equipped with an optional oxygen cylinder and a loading and unloading system, which consists of a ramp, a cart and straps. Refer “Oxygen Compartment” for more information. Note: The O2-to-go system is an optional feature.
C	ECC Compartment (S2 Compartment)	The ECC (Electrical Control Center) is the centralized system designed to manage and control the various electrical components and systems within the ambulance.
D	Shoreline Plug	A 120V shoreline connection is available to charge the batteries. Refer “Shoreline Connector (If equipped)” .
E	Fuel Filler Port	Open the lid to fill the fuel. Use the appropriate fuel that is recommended by the chassis manufacturer.

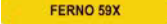
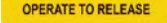
	Name	Function
F	Storage Cabin (S3 Compartment)	The storage compartment is an open-access area designed for storing equipment that needs to be easily retrieved from outside the vehicle. This compartment offers flexibility based on operational needs: • Standard use: Ideal for storing essential tools and equipment. • Optional configurations: • Spare tire and tools: The compartment can be configured to house the spare tire, jack, and necessary tools. • Adjustable shelves: Optionally, two adjustable shelves can be installed to organize and maximize storage capacity for smaller items.
G	Rear Step Bumper	This is a flip-up step bumper and can be used as a step into the rear of the ambulance. Refer “Rear-Step Bumper” .
H	Rear Door 1 (R1)	The door is designed to open wide to allow easy loading and unloading of patients on stretchers. Refer “R1 Door” .
J	Rear Door 2 (R2)	The door is designed to open wide to allow easy loading and unloading of patients on stretchers. Refer “R2 Door” .
K	Backboard Storage Cabin (C3)	The storage space is accessible from both inside and outside the ambulance, allowing for convenient storage of essential equipment that needs to be accessed from either location. Refer “C3 Door” .
L	Patient Compartment Door (C2)	The curb-side entry door. Refer “C2 Door” .
M	Storage compartment (C1)	The compartment is designed to store multiple spine boards. Spine boards can be mounted on the brackets provided inside the compartment and must be secured using the harness when stowed. Alternatively, the compartment can be modified to store other equipment, depending on operational requirements. The bottom compartment serves as the battery well. Refer “C1 Door” .
N	Antenna	The patient compartment ceiling features multiple antenna ports, providing flexibility for mounting antennas as needed. These ports allow for easy installation and future expansion, ensuring seamless integration with communication systems or other equipment requiring external antennas.

LABEL

Note: This manual describes common labels available on units. Common labels may or may not be present on a unit, depending on the available configuration. Additional or custom labels may be included or omitted based on the available features, and customer specifications.

Label	Location	Description
	At every DC outlets	DC outlet identifier
	CHASSIS - Under the hood	Air-condition system material identification
	ECC compartment board	Vehicle electrical system warning label
	Cab, patient compartment & rear doors	Garbage container identification
	Patient compartment - On squad bench, on/above every unmarked Biohazard Sharps container	Bio-hazard warning label
	Patient compartment & cab - Located above each fire extinguisher. Optionally located on the door.	Fire extinguisher label
	Patient compartment - Front and back kit tree shelf	Indicates the maximum load limit for the kit tree shelf
	Oxygen tank door	Oxygen tank identification
	CHASSIS - Under Hood	Shoreline auto eject

Label	Location	Description
	Cabin - driver side dashboard	Set park brake
	Patient compartment - By flip-bench, where stretcher mount is applicable	Stretcher modification
	Driver's cab – Top left of windshield	Vehicle height indicator
	Patient compartment – Driver's Side Cabinets	Cabinet load warning
	Patient compartment – Driver's side rear wall (under cabinets)	Cot retention system load rating warning
	Chassis – Under hood (by battery)	Factory battery identifier
	ECC - Battery tray (optional) C1 - Battery tray (optional)	Conversion battery identifier
	Oxygen compartment/patient compartment. On top of oxygen brackets.	Oxygen tank identifier and maximum load
	Oxygen compartment - on top of oxygen ramp	No step warning on the oxygen ramp
	Driver's cabin - Driver's side dashboard	Vehicle load details and dimensions (Manual entry is required).
	On top of all the electrical outlets	AC outlet identifier
	Oxygen compartment	Oxygen bracket type identifier
	Patient compartment - Above heater	Caution - Do not place any objects on or near heater
	Patient compartment - Above squad bench	Maximum cabinet load warning
	Patient compartment - Above flip step compartment	Maximum compartment load warning
	Patient compartment - Heart monitor platform	Maximum compartment load warning

Label	Location	Description
	Patient compartment - Mobility drawers	Maximum drawer load warning
	Patient compartment - Lower mobility drawer	Maximum drawer load warning
	Patient compartment - Laptop mobility drawer	Maximum drawer load warning
	Patient compartment - Above gas filler	Gasoline identifier
	Patient compartment - In front of patient compartment cabinet, behind driver's seat	Maximum cabinet load details
	Patient compartment - Kit tree cabinet	Maximum cabinet load details
	Patient compartment - Squad bench, beside latch	Maximum cabinet load details
	Driver's cabin - On dashboard	Back-up alarm warning
	C2 door	Ferno powertraxx stair chair bracket identifier
	C2 door	Stryker pro stair chair bracket identifier
	C2 door	Ferno transcend traxx stair chair bracket identifier
	C2 door	Ferno 59X stair chair bracket identifier
	C2 door	Release latch to hold the upper stair chair bracket
	C2 door	Bracket adjustment for different stair chair model
	C2 door	Ferno 59X stair chair installation procedure
	C2 door	Stryker Pro stair chair installation procedure

Label	Location	Description
	Driver's cabin - On the dash-board Patient compartment - Under the street-side cabinets, near the attendant seat	No Smoking/No Vaping/Fasten Seat Belts warning
	Patient compartment - On the street-side wall, near the attendant seat	Storage capacity rating
	C2 door - above stair chair bracket	Maximum load capacity for stair chair bracket
	Chassis door pockets	Maximum load capacity for door pockets
	Patient compartment - Above the wall hooks	Maximum load capacity for helmet hooks
	Patient compartment - On the wall or the squad bench near the D-rings	Maximum load capacity for D rings
	R2 door - above the handle	Door opening instructions
	C2 door - above the handle	Door opening instructions
	In-front of all oxygen brackets	Oxygen cylinder warning
	Driver's cabin - near curb-side windshield	Vehicle height warning
	Patient compartment doors - near the emergency release knobs	Emergency release knob operation for doors
	Chassis - under hood	Additional battery caution note
	Driver's cabin - near map bin	Maximum load capacity for storage bin
	Oxygen compartment door (If O2 to Go system is installed)	Oxygen tank loading/unloading instructions

SAFETY PRACTICES

GENERAL SAFETY PRACTICES

Read and follow the safety guidelines listed below:

Vehicle Operation Safety

- **Emergency Vehicle Operation:** Operating emergency vehicles under lights and sirens presents an increased risk of accidents or collisions. Exercise caution, follow traffic laws, and prioritize the safety of themselves, patients, and other road users while responding to emergencies.
- **Pre-Trip Inspection:** Conduct a thorough inspection of all essential components (tires, brakes, lights, sirens, etc.) before operating the vehicle.
- **Safe Driving Protocols:** Adhere to speed limits and traffic regulations. Use sirens and lights responsibly, only during emergencies.
- **Avoid Distracted Driving:** Ensure the driver remains focused. Minimize use of radios and communication devices while driving.

Patient Compartment Safety

- **Securing Equipment:** Ensure all medical devices are securely fastened using the provided mounts. Check that oxygen tanks, stretchers, and monitors are locked in place.
- **Seatbelt Usage:** All personnel must wear seat belts while seated. Ensure the patient is properly restrained. All personnel must remain seated and restrained when the vehicle is in motion.

Oxygen System Safety

- **Oxygen Compartment Safety:** Exercise caution when interacting with ambulance oxygen compartment to prevent leaks or equipment damage. Regular inspection and maintenance of oxygen equipment are vital to ensure safe operation. Any damage, leaks, or malfunctions should be reported promptly for resolution.
- **Oxygen Valve Handling:** Only authorized personnel should operate the Oxygen Emergency By-Pass Valve. Ensure that the system is energized all the time. Familiarize staff with manual bypass operation in case of power failure.
- **Pressure Monitoring:** Monitor the system's pressure to ensure it remains within the normal operating range.
- **Leak Checks:** Regularly inspect for leaks, especially after oxygen system maintenance or refilling.

Electrical System Safety

- **Electrical System Safety:** Exercise caution when interacting with ambulance electrical systems to prevent electrical shock or fire hazards. Regular inspection and maintenance of electrical components are essential to ensure safe operation. Any signs of damage or malfunction should be addressed promptly by qualified personnel.
- **Battery Management:** Inspect batteries regularly. Ensure connections are secure and corrosion-free.
- **Avoid Overloading:** Ensure electrical loads do not exceed system capacity, especially when operating multiple devices simultaneously.

Emergency Procedures

- **Fire Safety:** Keep fire extinguishers accessible and check them regularly.

Maintenance and Inspection

- **Scheduled Maintenance:** Follow the maintenance schedule outlined in the manual. Only qualified technicians should perform maintenance.
- **Documentation:** Maintain records of all inspections, maintenance, and repairs for accountability.

Loading and Unloading Safety

- **Lifting and Patient Handling:** Improper lifting and patient handling techniques can lead to injuries for operators and patients. Use proper body mechanics and assistive devices to minimize the risk of strains, sprains, and other injuries during patient transfers and transport.

SYSTEM AND EQUIPMENT

- **Incubator Restraint (If equipped):** Use the D-ring incubator restraints located at the rear door threshold (if equipped) to secure incubators.
- **Emergency Door Releases:** In case of patient compartment interior door handle malfunction, use the emergency door release to open the doors. Refer section [“Emergency Door Release”](#)
- **Fire Extinguisher:** In the event of a fire, use one of the fire extinguishers installed in designated locations throughout the unit. Multiple extinguishers are provided to ensure quick access from different areas. Familiarize yourself with the extinguisher locations and ensure they remain unobstructed at all times.
- **Road Flare (If equipped):** In case of distress, use the road flares located behind the seats in the front chassis cab.
- **Reversing Alarm:** The reversing alarm activates automatically when the gear shifter is placed in reverse. Refer section [“Back-up Alarm”](#)
- **Reverse Camera and monitor (If equipped):** The reverse camera activates automatically when the gear shifter is placed in reverse. An added monitor is installed in the cabin.
- **Anti-Theft:** To maintain the vehicle at an ideal operating temperature without the keys, activate the anti-theft function. Refer section [“Anti-Theft”](#)
- **Patient Status Indicator Lights (INTERCODE) System:** An intercode system allows transmission of visual and audio signals from patient care area to the drivers cabin. Refer section [“Patient Compartment Tab”](#)
- **Hidden Grille Unlock Switch:** A hidden vehicle unlock switch is located at the front chassis grille on truck chassis models, or at the rear of the ambulance on cutaway chassis models. Use this switch to unlock the vehicle if the key is unavailable or lost.
- **HEPA Air Filtration System (If equipped):** The ambulance is equipped with a stand-alone powered air filter, added to the patient compartment, as an air scrubber system.
- **UV Air Sterilization System (If equipped):** The ambulance is equipped with a stand-alone, wall-mounted system that uses UV light to sterilize the air in the patient compartment.

REPORTING SAFETY DEFECTS

US Only

If you believe that your vehicle has a defect that could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Crestline Coach Ltd.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Crestline Coach Ltd.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to:

Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590.

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

Canada Only

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada and Crestline Coach Ltd, Canada.

Transport Canada Contact Information

Website	Transport Canada Defects and recalls of vehicles, tires and child car seats
Phone	1-800-333-0510

Crestline Coach Ltd, Canada Contact Information

Website	www.crestlineambulances.com
Contact	Customer Care Direct Line: 1-800-363-7591/303-934-8844 Toll Free phone in North America: 888-887-6886 Fax: 306-242-5838 Toll Free Fax in North America: 800-667-0002
Email	info@crestlinecoach.com

COMPLIANCE

- Operators are advised to comply with all applicable provincial and regulatory standards to ensure safe and effective use of the ambulance.

WARRANTY

For warranty information, refer to the Crestline 2022 Warranty Summary.

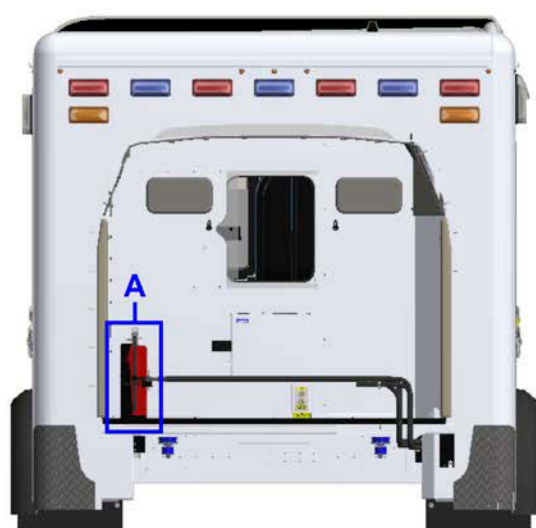
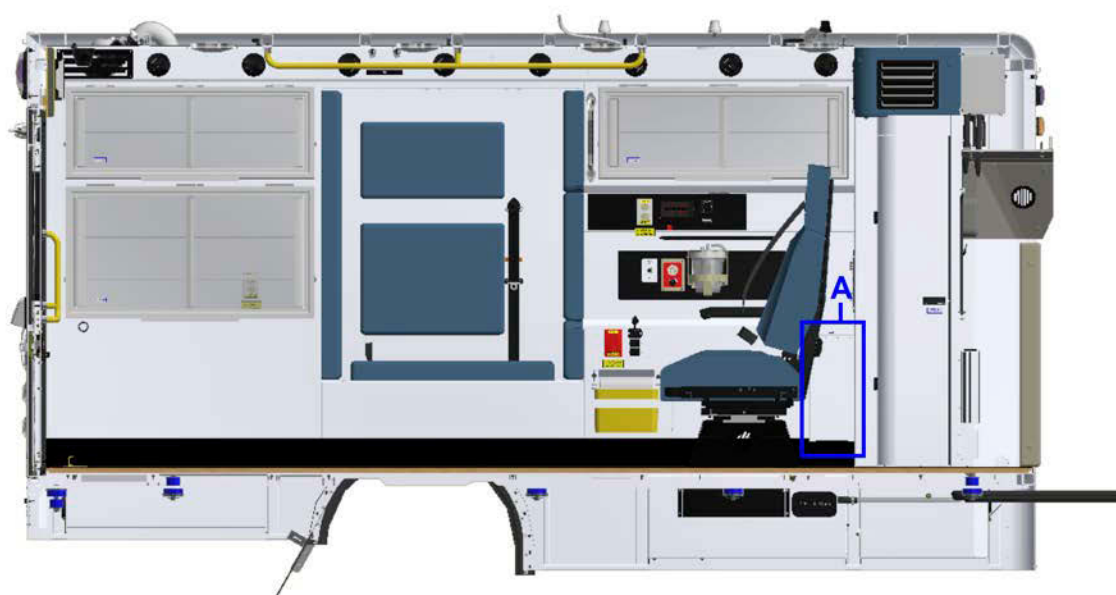
Supplier Manufactured Components Warranty

- OEM components covered under their own warranties.
- Operators should familiarize themselves with these standards and warranty terms to ensure compliance and maintain the vehicle's integrity over time.

FIRE EXTINGUISHER

The ambulance may be equipped with two fire extinguishers: one located behind the passenger seat in the driver's cabin and the other beside the airway seat in the patient compartment. Optionally, another fire extinguisher is mounted inside the ECC compartment. All extinguishers are ABC dry chemical type, each with a capacity of five pounds, and are secured in quick-release brackets. The fire extinguishers can be mounted either vertically or horizontally, depending on the installed mounting bracket.

Warning: Always ensure that fire extinguishers are accessible and in good working condition. Regularly check the pressure gauge and inspect for any signs of damage. In case of fire, use the appropriate extinguisher for the type of fire and follow the correct operating procedures.



EMERGENCY DOOR RELEASE

In the event that an interior door handle fails to open a door, it is necessary to use the emergency release to exit the ambulance. The emergency door releases are available on all the patient com-

partment doors. The mechanism uses door knobs to function. There are two knobs available on each door.

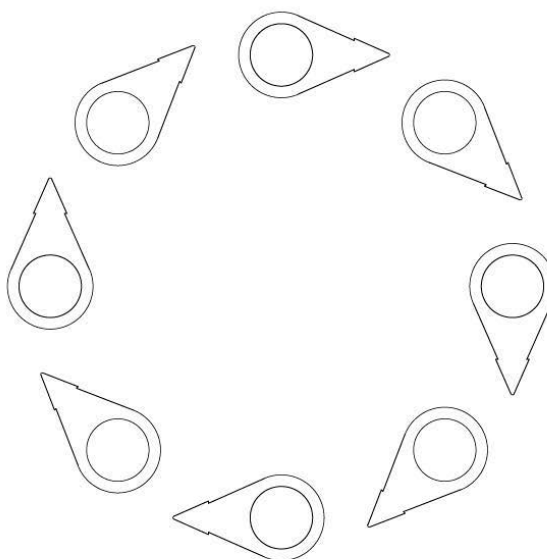
Follow the below procedure to operate the emergency door release:

1. Locate the emergency release door knobs on the door. These can be identified as black round knobs that are placed next to the EMERGENCY RELEASE decals.
2. Slide the top knob in the direction of the arrow until the top rotary latch is released.
3. Repeat the process with the bottom knob to release the bottom rotary latch. When both rotary latches are released, the door can be opened.

Warning: Each knob is only connected to its respective rotary latch. Actuating a knob will only release the latch it is connected to. Therefore, it is crucial to operate both knobs on a given door to fully release and open the door.

WHEEL NUT INDICATOR (OPTIONAL)

The ambulance is optionally equipped with wheel nut indicators to ensure the correct positioning of the wheel nuts. Ensure that the wheel nut torque indicators are correctly positioned, with the arrow end pointing towards the center of the adjacent wheel nut. If any indicator has rotated away from this alignment, it is necessary to have the wheel nut torque inspected promptly by a certified technician.

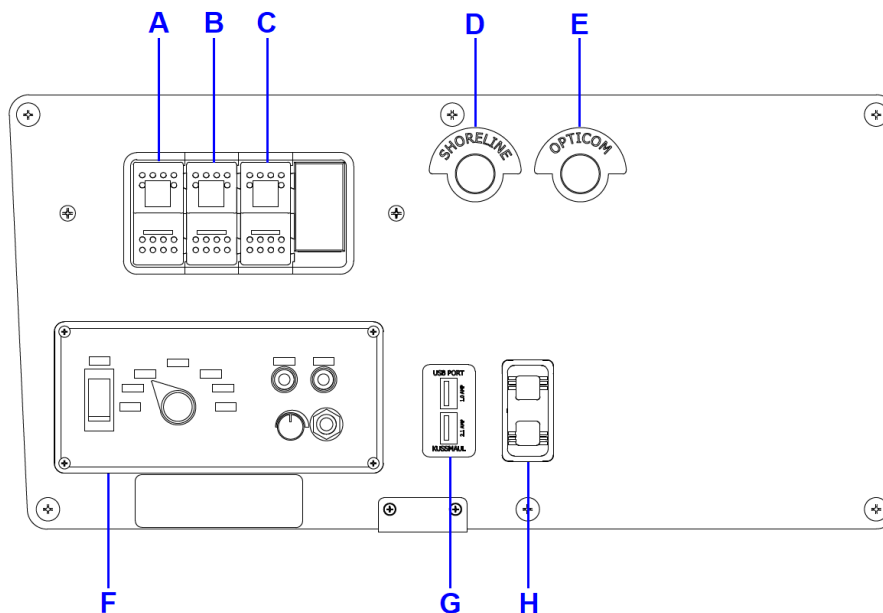


Wheel Nut Orientation

OPERATOR CONTROLS

The ambulance system is managed by a Front Center Control (FCC) unit located in the driver's cabin, along with two Medical Control Center (MCC) panels positioned within the patient compartment. Both the FCC and MCC panels are equipped with the PRAN MMC module, which controls the entire electrical system of the ambulance, ensuring seamless operation of all on-board systems.

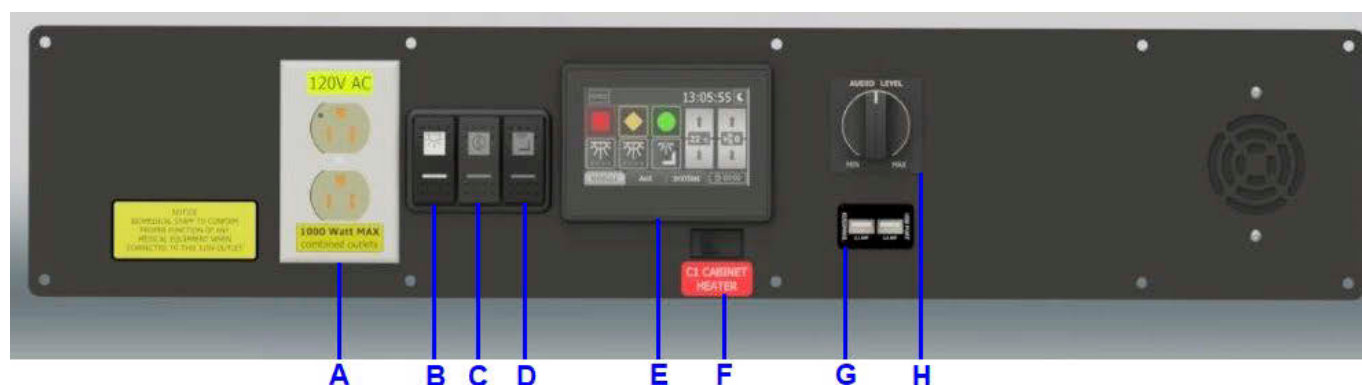
FRONT CENTER CONTROL



	Name	Function
A	PRI-SEC	Push the rocker switch up to activate PRI mode and down to activate SEC mode. PRI mode activates the primary lights, while SEC mode activates the secondary lights on the vehicle. Refer “Emergency Lights” for more information.
B	Howler	Activates the howler along with the siren system. When activated, the speaker produces a low-frequency, high-intensity sound. It complements the standard high-pitched sirens by producing vibrations that can be felt as well as heard.
C	Battery Boost	This feature connects the chassis and conversion batteries to increase battery power, aiding in starting the ambulance if the chassis battery loses power.
D	Shoreline indicator	Indicates when a shoreline is connected to the unit.
E	Opticom Indicator	Indicates when the opticom is activated (If equipped)
F	Siren Control Unit	The vehicle is equipped with a Whelen 295HFSA7 siren. For detailed operating instructions and specifications, refer to the OEM siren system user guide.
G	USB Ports	There are two standard USB ports available for connecting USB-enabled equipment: one with a 2.4 Amp output and another with a 1 Amp output.

	Name	Function
H	Battery Disconnect Switch	The battery disconnect switch is protected by a slider. To disconnect the conversion batteries and deactivate the ambulance electrical system, push the slider up and press OFF. To reactivate the battery control switch, push the slider down and press ON.

STREET-SIDE MCC



	Name	Function
A	120V AC outlet	Refer “AC Outlets” .
B	Ceiling light	Push the rocker switch up or down to control the ceiling lights. Refer “Ceiling Lights Operation” for complete operation of the ceiling lights.
C	Suction	Push the rocker switch up to start the suction machine and down to stop. Refer “Suction System”
D	Reading light	Press the rocker switch up to activate the reading light. Press down to deactivate.
E	Touchscreen	The 4.3" LCD color touchscreen serves as an interface for activating various functions and for displaying information. Refer “MCC Touchscreen” for complete operation
F	Cabinet heater	
G	USB ports	Two 2.4 AMP USB ports are provided for charging multiple USB-enabled devices.
H	Audio Level Switch	Manages the audio level inside the patient compartment.

CURB-SIDE MCC



	Name	Function
A	Ceiling light	Push the rocker switch up or down to control the ceiling lights. Refer “Ceiling Lights Operation” for complete operation of the ceiling lights.

	Name	Function
B	Touchscreen	The 4.3" LCD color touchscreen serves as an interface for activating various functions and for displaying information. Refer “Touchscreen Controls” for complete operation

TOUCHSCREEN CONTROLS

The touchscreen on the FCC and MCC has three section. A top bar, central area and a bottom bar.



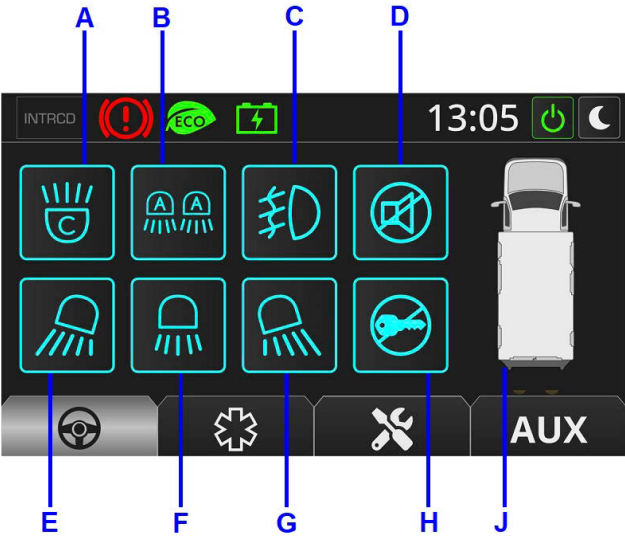
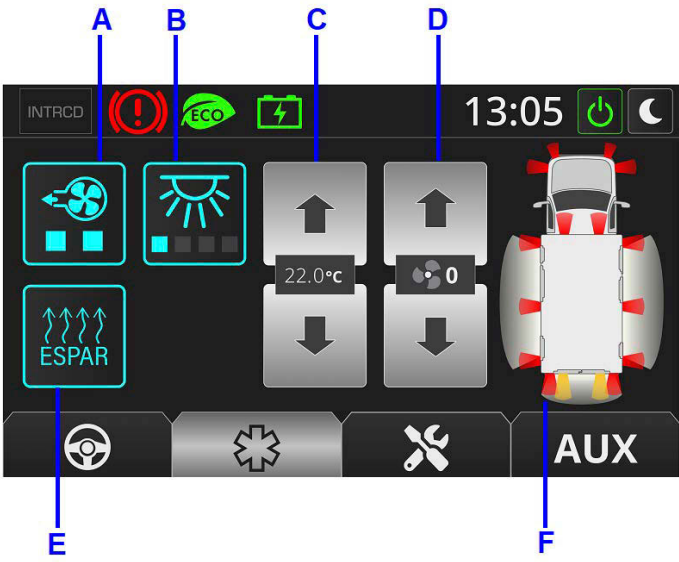
FCC TOUCHSCREEN

Top Bar: The top bar displays the following information:

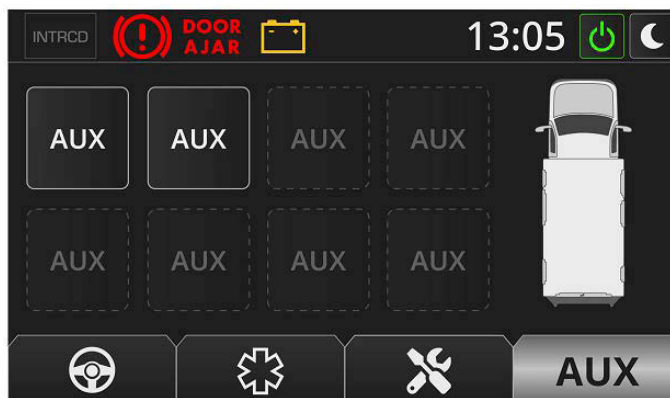
Intercode	The icon changes based on the intercode signal from the patient compartment. Each icon color represents the patient's status: • RED: Indicates an emergency condition that requires immediate attention. • YELLOW: Indicates a warning or cautionary alert. • GREEN: Indicates the patient's status is satisfactory.
Park brake status	Park brake indicator  appears when the parking brake is engaged.
Door status	DOOR AJAR - Indicates the opening of chassis door and patient access door(s). COMP AJAR - Indicates the opening patient compartment doors that do not allow patient access (storage compartment doors).
Anti-idle mode	Anti-idle or ECO mode icon  appears when the vehicle is in ECO mode.
Battery status	Indicates when one of the batteries has a below limit voltage or when the batteries are charging.
Time	Indicates the present time.
Power button	Tap the power button icon to activate or deactivate the screen.
Sleep mode	Tap the Sleep Mode icon to turn off the screen. Tap anywhere on the screen to turn it back on.

Central Area: The central area serves as an interface for displaying information based on the selected tabs in the bottom bar.

Bottom Bar: The bottom bar has four tabs. Refer the following table:

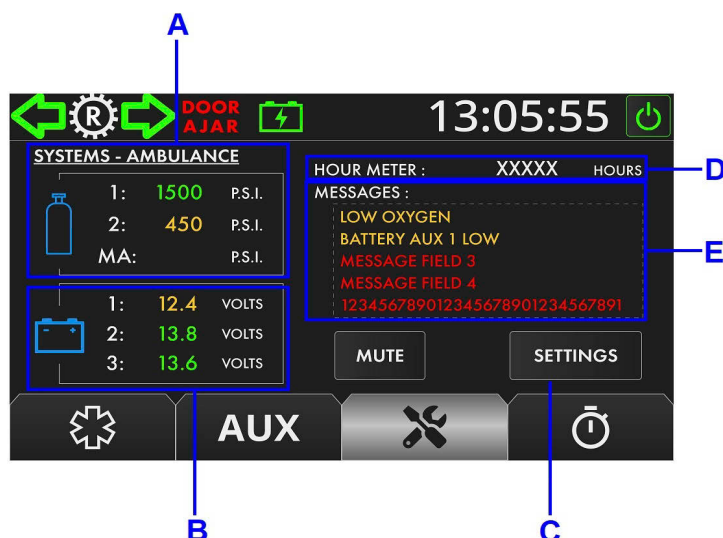
Cabin tab	The following functions can be controlled from this tab:  A - Cabin lights B - Wig-wag lights C - Fog lights D - Reverse alarm mute E - Left scene lights F - Rear loading lights G - Right scene lights H - Anti-theft J - Vehicle door and exterior light indicator
Patient compartment tab	The following functions can be controlled from this tab:  A - Patient compartment exhaust fan B - Patient compartment ceiling lights C - Patient compartment temperature D - Patient compartment fan speed E - Heater F - Vehicle door and exterior light indicator

AUX tab



This tab can be customized by adding additional function that are requested by the customer for the vehicle.

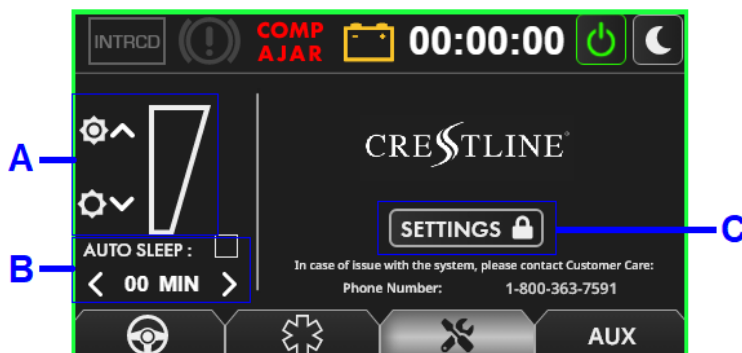
System tab



- A** - Oxygen tank pressure indicator
- B** - Displays the current battery status. Both chassis and conversion battery voltage is displayed here.
- C** - Settings: Tap to display the advanced setting page.
- D** - Hour Meter: Indicate the number of engine hour operation.
- E** - Messages: Displays any system messages that are configured.

System Settings

The following settings are available in the Settings landing page.



A - Brightness

B - Auto sleep timer. Check the box and set the time to start the auto sleep timer.

C - The settings are password protected and must be accessed by authorized persons only. Tap the Settings to navigate to the settings page.

Settings



Enter the password and tap OK to access the settings page. You can make the following settings by default:

1. Date & Time
2. Units. The following unit settings are available:
 - Temperature scale.
 - Pressure scale
 - Distance scale
 - Hour format
 - Date format
 - Language
3. Info
4. Suspension
5. Update

Note: All the settings on this page are not activated for user control. If you wish to update a setting that is available on this page but not activated, contact Crestline Customer Care.

MCC TOUCHSCREEN

Top Bar: The top bar displays the following information:

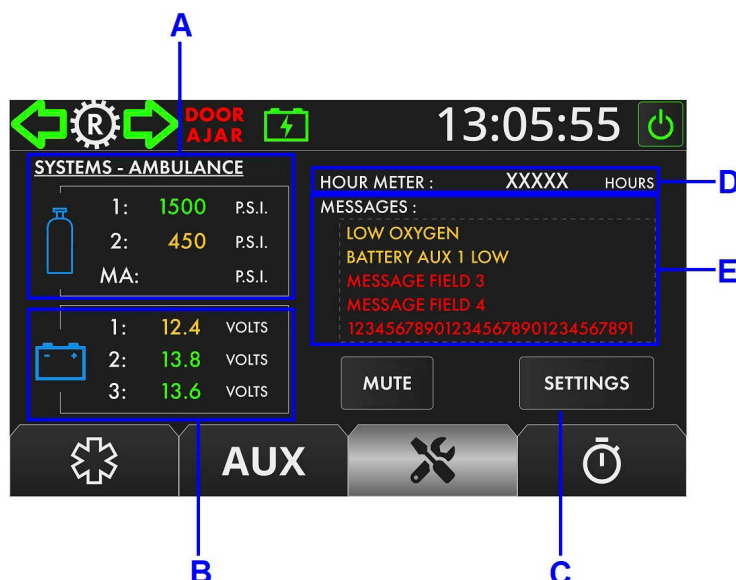
Gear status	The gear status indicator displays the gear information, including P, N, D, and R.
Vehicle indicator status	Left and right indicator status.
Door status	DOOR AJAR - Indicates the opening of chassis door and patient access door(s). COMP AJAR - Indicates the opening patient compartment doors that do not allow patient access (storage compartment doors).
Anti-idle mode	Anti-idle or ECO mode icon  appears when the vehicle is in ECO mode.
Battery status	Indicates when one of the batteries has a below limit voltage or when the batteries are charging.
Time	Indicates the present time.
Power button	Tap the power button icon to activate or deactivate the screen.

Central Area: The central area serves as an interface for displaying information based on the selected tabs in the bottom bar.

Bottom Bar: The bottom bar has four tabs. Refer the following table:

Patient Compartment Tab	The following functions can be controlled from this tab: A - Intercodes: This functionality allows transmission of a visual and audio signal to the FCC screen. Three intercode buttons available; a red square, yellow diamond and a green circle. Tapping a button with specific color transmits the corresponding signal to the FCC screen. Multiple signals can be transmitted at the same time. To deactivate a signal, tap the corresponding button again. B - Right ceiling lights C - Left ceiling lights D - Reading lights E - Temperature control F - Fan speed control
AUX tab	A - Exhaust fan speed control Note: This tab can be customized by adding additional function that are requested by the customer for the vehicle.

System Tab



A - Oxygen tank pressure indicator

B - Displays the current battery status. Both chassis and compartment battery voltage is displayed here.

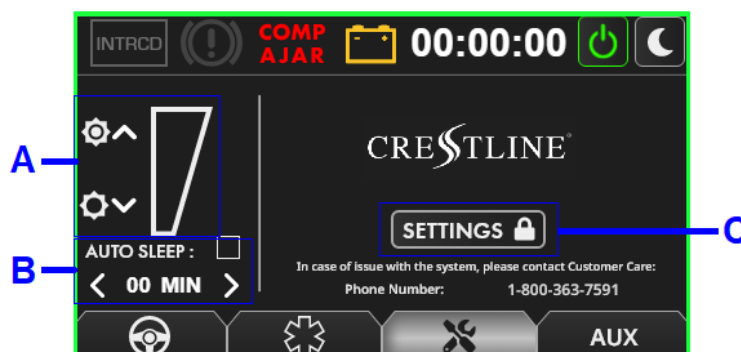
C - Settings: Tap to display the advanced setting page.

D - Hour Meter: Indicate the number of engine hour operation.

E - Messages: Displays any system messages that are configured.

System Settings

The following settings are available in the Settings landing page.



A - Brightness

B - Auto sleep timer. Check the box and set the time to start the auto sleep timer.

C - The settings are password protected and must be accessed by authorized persons only. Tap the Settings to navigate to the settings page.

Settings

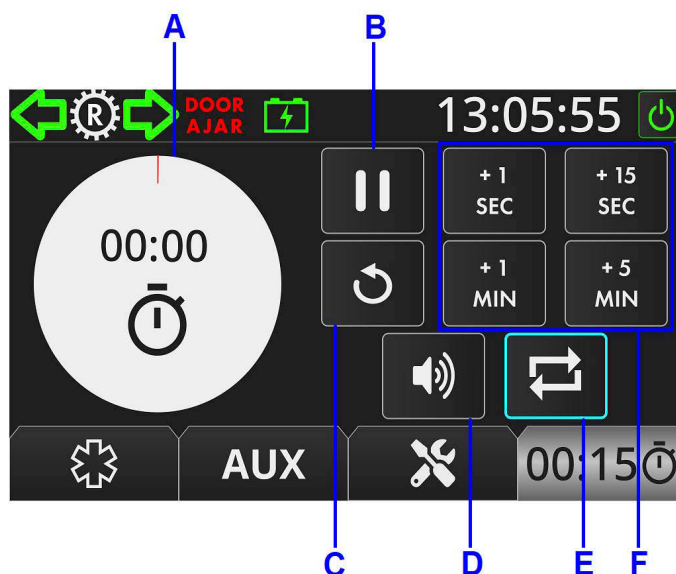


Enter the password and tap OK to access the settings page. You can make the following settings by default:

1. Date & Time
2. Units. The following unit settings are available:
 - Temperature scale.
 - Pressure scale
 - Distance scale
 - Hour format
 - Date format
 - Language
3. Info
4. Suspension
5. Update

Timer Tab

The timer tab allows you to set timer while viewing the scrolling seconds. Once initiated, the timer is also visible in the timer tab, at the bottom right of the screen. The following buttons are available in the timer tab



- A - Timer display
- B - Pause/Start
- C - Reset
- D - Mute/Unmute
- E - Repeat
- F - Time increments

There are two modes in the timer tab:

1. Timer Mode

The timer mode allows you to set a predefined time to start a count down. Press the dedicated buttons on this screen to adjust the time by the increments of one second, 15 seconds, one minute and five minutes. Upon completion of the countdown, an alarm is activated on the screen.

2. Stopwatch Mode

The stop watch mode allows you to count the elapsed time.

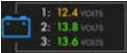
PICTOGRAM

The FCC and MCC features multiple pictograms, both on the screen as well as on the physical switches.

PICTOGRAM MEANING

Pictogram	Location	Description
	FCC	Emergency lights Primary (PRI) mode
	FCC	Emergency lights Secondary (SEC) mode
	MCC	Ceiling lights
	MCC	MCC Reading Light
	MCC	Ventilation
	MCC	Suction
	FCC Screen	Cabin tab.
	FCC Screen	Left scene lights
	FCC Screen	Rear loading lights
	FCC Screen	Right scene lights
	FCC Screen	Anti-theft
	FCC Screen	Alarm mute.
	Front and rear console screen	Patient compartment tab.
	Front and rear console screen	System tab. Displays a number of settings and information. Refer Touchscreen Controls for more information.

Pictogram	Location	Description
	Patient compartment tab in the front and rear console screen	Temperature control
	Patient compartment tab in the front and rear console screen	Fan speed control
	Patient compartment tab in the FCC Screen	Ventilation of the patient compartment
	AUX tab in the front and rear console screen	Auxiliary Switch(s)
	Patient compartment tab in the FCC Screen	Ceiling lights in the patient compartment (left and right)
	Patient compartment tab in the MCC Screen	Left ceiling lights in the patient compartment
	Patient compartment tab in the MCC Screen	Right ceiling lights in the patient compartment
	Patient compartment tab in the MCC Screen	Red intercode light
	Patient compartment tab in the MCC Screen	Yellow intercode light
	Patient compartment tab in the MCC Screen	Green intercode light
	FCC Screen	Sleep mode. When activated, the screen goes dark with only indication of time. To reactivate, tap on the screen or keep the transmission position in a different gear other than park. The screen automatically enters sleep mode after a preset period of inactivity. To update the duration, navigate to System tab.
	MCC Screen	Clock display
	FCC Screen	Appears when the vehicle park brake is engaged. If the park brake is engaged and the vehicle transmission is in a different gear other than park (P), the icon flashes with an audible alarm.

Pictogram	Location	Description
	Front and rear console screen	Appears when an alarm is active. Tap the alarm icon or  (system tab) icon to view all active alarms.
	Front and rear console screen	Appears when one of the battery has a below limit voltage
DOOR AJAR	Front and rear console touchscreen	Appears when a side entry or rear access door is open.
COMP AJAR	Front and rear console touchscreen	Appears when the compartment doors or hood is open
P R N D	MCC	Transission status
	MCC	Turn Signal Indicator - Flashing left/right
	System tab in the front and rear console screen	Battery voltage 1= Chassis Battery 2=Auxiliary Battery 3= Optional radio Battery
	System tab in the front and rear console screen	Oxygen Tank Pressure

STANDARD SYSTEMS

This section lists the standard systems available on the Fleet Max 2.0 ambulance.

ANTI-THEFT

The anti-theft function allows the vehicle's engine to run without the ignition keys. This feature helps maintain the vehicle at an ideal operating temperature while protecting it against theft. In the event of an attempt to drive the vehicle, the engine is automatically turned off.

Warning: Ambulances with Chevrolet chassis, having key less ignition can keep running even if the keys are not nearby, allowing the vehicle to be driven away unless the anti-theft system is activated. When anti-theft is enabled, the engine will shut down if someone tries to drive away without the keys.

Ford E350 truck chassis, on the other hand, will automatically shut off after 30 minutes, regardless of whether the anti-theft system is engaged.

Activating Anti-Theft

1. To activate anti-theft, ensure the following:
 - The engine in running condition
 - The shift selector in the P (Park) position
 - Brake pedal is released
2. On the FCC touch screen, select the Cabin tab and tap the  (Anti-Theft) icon. The button color changes to blue, indicating the activation of anti-theft mode.
3. When activated, you can remove the ignition keys.

Warning: Do not leave children or pets unattended when the anti-theft is activated.

Deactivating Anti-Theft

To deactivate and shut down the engine;

1. On the FCC touch screen, select the Cabin tab and tap the  (Anti-Theft) icon again, or press the brake. The button color changes to white, indicating the deactivation of anti-theft mode and the engine stops.

To deactivate with engine running;

1. Turn the vehicle ignition to on or run position.
2. On the FCC touch screen, select the Cabin tab and tap the  (Anti-Theft) icon again, or press the brake. The button color changes to white, indicating the deactivation of anti-theft mode.

HIGH-IDLE

The high-idle function enables the ambulance to enhance the battery charging and improve the heat and AC performance. This function is commanded by the multiplex module, situated in the electrical panel compartment.

High-Idle Operation

To activate high-idle, the following conditions must be met:

- The engine hood is closed.
- Engine running
- The transmission is in P (park).
- Primary brake pedal released.

- Accelerator pedal released.
- Parking brake on

OEM HIGH-IDLE

Every ambulance is equipped with an OEM (Original Equipment Manufacturer) high-idle, which is different from the Crestline high-idle. This system is defined by the chassis manufacturer and may differ with the make and model of the chassis. Refer the chassis owner manual for more information.

ANTI-IDLE (ECO)

The anti-idle function enables the vehicle to save fuel by automatically starting and stopping when specific voltage and temperature criteria are met. When activated, a  (green leaf) symbol appear at the FCC touch screen.

Anti-Idle Operational Criteria

To activate anti-idle, the following criteria must be met:

- Temperature set point - The conversion (patient care area) temperature must be at the exact thermostat set point, which is set by the user and remain within this range for 30 seconds.
- Voltage range - The conversion battery voltage must be greater than 11.8V and the chassis battery must be greater than 12V. The battery voltage must remain in this range for 30 seconds.

Anti-Idle Operation

- The anti-idle automatically engages after three minutes when the following conditions occur:
 - The vehicle is stopped, with the engine running.
 - The transmission is in P (park).
 - The foot brake is released.
 - The engine hood is closed.
- When activated, the FCC touch screen beeps for 2 seconds, indicating immediate engine shut off.
- While the engine is off, the anti-idle system continues to monitor the conversion temperature and battery voltages.
- The engine restarts when any of the following occur:
 - The conversion temperature increases or decreases more than the range of the thermostat set point, which is set by the user with a tolerance of +/- 4°C.
 - The conversion battery voltage drops below 11.8V or the chassis battery voltage drops below 12V.
- The front touch screen emits a beep after 12 seconds followed by the back-up alarm sound for three seconds, indicating an immediate engine restart.
- If the battery voltage prompts the engine restart, the engine will operate for a minimum of 10 minutes.
- If the conversion temperature prompts the engine restart, the engine will continue to run until the temperature reaches the thermostat set point and remains within the temperature range for 30 seconds.

- Anti-idle will function until one of the following scenarios occurs:
 - The vehicle speed is more than 0 kilometer per hour (KPH).
 - The transmission is out of P.
 - The engine starts manually.
 - The hood is open.
 - The ignition key is removed without enabling the anti-theft function.

AUTOMATIC FUNCTIONS

Auto-Battery Disconnect

The Electrical Control Unit (ECU) will automatically disconnect the electrical system from the batteries when the conversion battery voltage drops to 10.5V.

Auto-Battery Reconnect

When the batteries are disconnected using the Auto Battery Disconnect feature, they automatically reconnect either when the vehicle is started or when the shoreline is plugged in, with a delay of up to 15 minutes. This ensures that the batteries are always ready for use, maintaining the system's functionality and preventing potential power interruptions.

Chassis Power Back-up

If the conversion batteries are disconnected, damaged, or dead, and you turn on the ignition, the conversion

system will automatically switch to the chassis as a backup power source.

Note: The inverter may not function properly without the conversion batteries. Running the inverter load without the conversion batteries is not recommended, as it can lead to poor performance or potential damage to the system.

Door Timer

When the side or rear door is opened, a timer is activated to turn off the corresponding door-activated cot and scene lights after five minutes if the doors remain open. If the door is closed, the lights will turn off immediately as usual. This timer feature does not affect the lights if they are turned on using the control switch, ensuring that manual control of the lights remains uninterrupted.

Engine Off Timer

Ambulance loads, with the exception of 'Life-Support' loads, will operate only when the engine is running or ECO-Run is active. After engine shutdown, a 5-minute timer initiates to deactivate all non-'Life-Support' loads.

Load Shedding

If the conversion voltage drops to 10.5V while the system is running, it will automatically start turning off non-critical loads to preserve essential functions.

Low Voltage Alarm

If the conversion batteries drop to 11.8V, an alarm will activate. This alarm will sound a buzzer in the driver's B-pillar and the electrical compartment. The alarm serves as an immediate alert to the driver and maintenance personnel, ensuring prompt attention to the low battery voltage to prevent potential power issues.

BACK-UP ALARM

The audible back-up alarm activates when the gear lever is set to the R (Reverse).

- To mute, tap the MUTE button on the FCC screen, located under the cabin tab. The button turns blue to confirm that the mute function is activated.
- To deactivate mute, tap the button again.
- When you mute, the back-up alarm deactivates for 30 seconds.

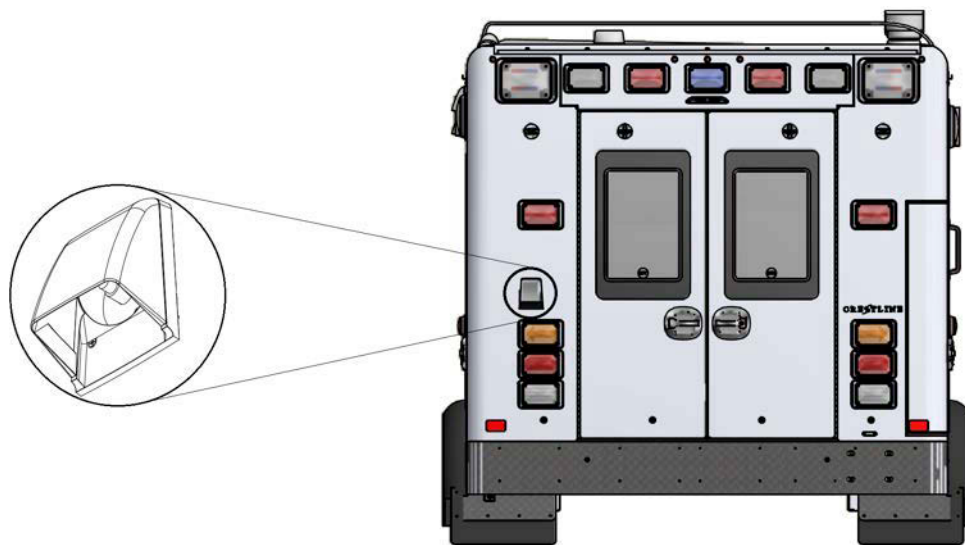
Warning: Always use a spotter to seek assistance while reversing with back-up alarm disabled. Do not use a vehicle with obstructed rear view unless the vehicle has a reverse signal alarm that is audible above the surrounding noise level or a spotter to assist in reversing.

White Noise Back-Up Alarm (If Equipped)

When equipped, the white noise backup alarm emits a directional sound that helps pedestrians and nearby personnel quickly identify the vehicle's location. Unlike traditional tonal alarms, white noise cuts through background noise more effectively and dissipates quickly over distance, reducing noise pollution. Its softer, less intrusive sound enhances situational awareness without being overly disruptive, making it ideal for busy or residential areas.

Reverse Alarm Spotter Switch (If Equipped)

The reverse alarm spotter switch is designed to silence the reverse alarm when a designated person assists the driver while reversing. The spotter switch normally replaces the reverse alarm silence button located near the driver's seat. The system allows alarm remains active unless a spotter is physically present at the rear of the vehicle to deactivate it and provide guidance. This feature enhances safety by preventing unauthorized silencing of the alarm and ensuring that the alarm is only turned off when someone is actively monitoring the vehicle's surroundings while it backs up.



To engage the reverse alarm spotter switch:

1. Locate the spring-loaded switch beneath the spotter switch cover.
2. Press the switch once to deactivate the alarm.

Note: The reverse alarm cannot be reactivated until the vehicle is shifted out of reverse and then engaged again.

PARK ASSIST (IF EQUIPPED)

The park assist uses sensors that are installed above the rear bumper to assist parking and provide obstacle warning while in reverse. The park assist comes on automatically when the gear lever is moved into Reverse (R)

ELECTRICAL SYSTEM

The electrical systems of the ambulance is a sophisticated network of components designed to provide reliable power for critical functions and equipments that are essential for patient care and operational tasks.

There are two distinct electrical systems to power the components; the 12 V (Volt) DC system and the 120 V AC system.

Warning: Contact Crestline Customer Care at 1-800-363-7591 for any repairs or verifications that require access to the main electrical compartment. Only trained personnel should work in this area.

DC SYSTEM

The sources of power for the 12 Volt DC system include chassis battery (OEM battery), conversion batteries, and dedicated 12V DC outlets.

Chassis Battery (OEM battery)

The ambulance is equipped with either one or two chassis (OEM) batteries. The primary chassis battery is installed in the engine compartment, while the optional secondary chassis battery is installed in either the S2 or C1 compartment. These 12V DC batteries serve as the primary power source for starting the engine and supporting various chassis systems. Customers have the option to upgrade the chassis batteries to suitable aftermarket alternatives based on their specific preferences and requirements.

Conversion Batteries

There are two conversion batteries available in the ambulance.

DC Outlets

The ambulance features a standard DC outlet at the MCC. Additionally, multiple DC outlets may be available within the patient compartment. These are used as power sources for various equipment and devices essential for patient care and operational tasks. These outlets are activated either when the ignition is ON or when the shoreline plug is connected to the ambulance. If the ignition is OFF and the ambulance is not connected to the shoreline plug, the outlets deactivate after five minutes.

On a standard unit, the DC outlets are located in the following areas:

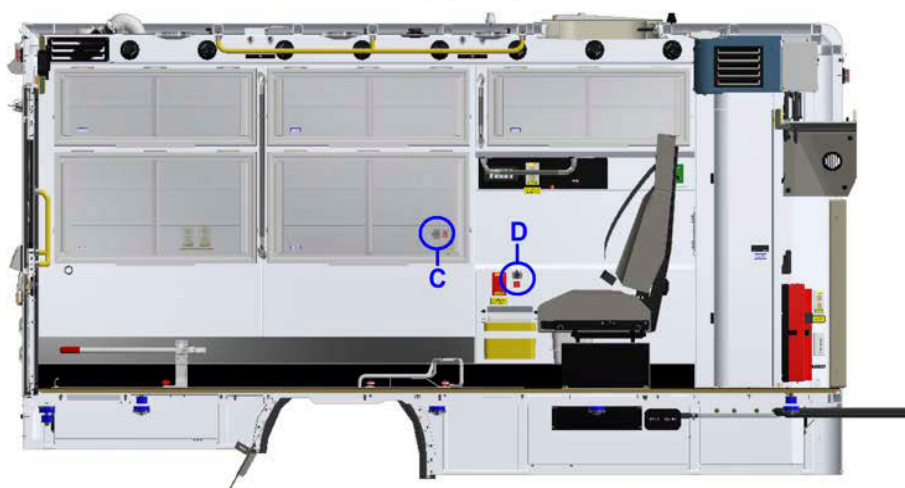
- **A** - At the MCC on the curb-side.
- **B** - On the B-pillar, behind the passenger seat.
- **C** - Inside the cabinet number 4.
- **D** - At the MCC on the street-side.

Warning: Extended operation of the DC outlets without the engine running or shoreline connected will result in battery discharge.

Curb-Side



Street-Side



AC SYSTEM

An inverter or charger unit in the ambulance manages the power distribution and conversion between DC and

AC sources. Additionally, the 120V shoreline outlet serves as an external power source.

Inverter

Warning: The inverter produces a pure sine wave. Use of equipment incompatible with the 120V AC power supply may cause harm. Prior to on-board use, ensure that the operating characteristics of medical equipment are compatible with the 120V AC power supply.

The ambulance is equipped with an either 1000W or 2000W (optional), 120V AC inverter, located in the ECC compartment. It has the following functions:

1. Convert the DC power into AC power source.
2. Recharge all the battery banks when an external shoreline is connected.
3. Power all the 120V AC outlets when the external shoreline is connected.

Note: To activate the inverter, turn the vehicle ignition to the ON position, run the engine, or connect the external shoreline plug.

Shoreline Connector (If equipped)

A shoreline connector is available on the street-side of the ambulance exterior, near the ECC compartment. The connection is a standard 15 amp or an optional 20 amps. The auto-eject feature helps the connection disconnect automatically when the engine is started. The LEDs next to the connector illuminate when the shoreline connector is connected.

Warning: Ensure that the shoreline connection is removed completely before moving the ambulance.

Shoreline Connector for Heater (If equipped)

A 120V, 15-amp shoreline connector is available, which powers a 1000-watt, 120V heater when needed.

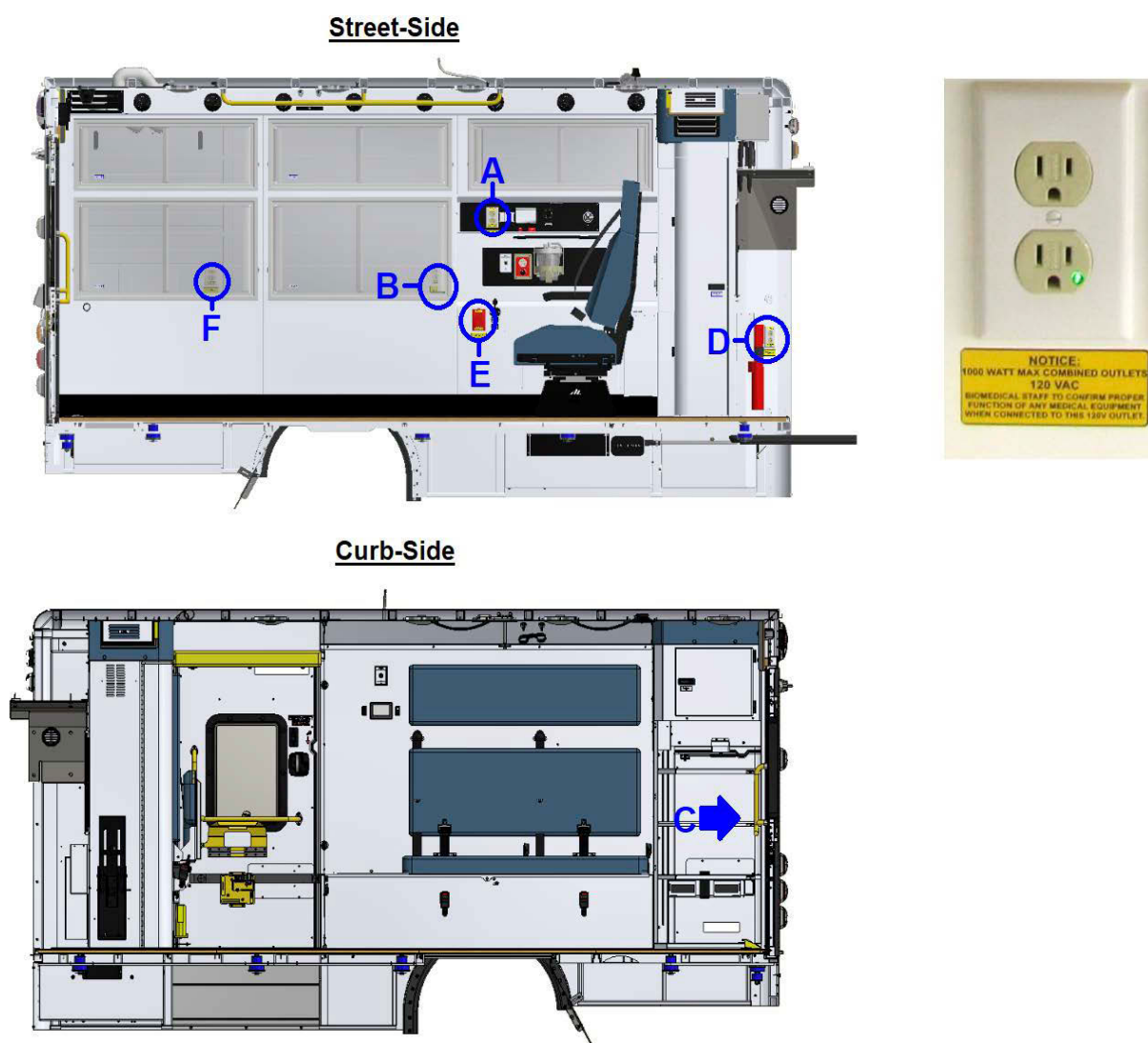
AC Outlets

In the standard configuration, three 120V AC outlets serve as power sources for equipment and devices. In the patient compartment, these outlets are located in the following areas:

- **A** - At the MCC on the street-side.
- **B** - Inside the 4th cabinet on the street-side.
- **C** - Inside the upper kit-tree on the curb-side.

Additionally, there can be up to three more 120V AC outlets (if equipped) available in the patient compartment. These outlets are located in the following areas:

- **D** - On the b-pillar, behind driver seat At the lower curbside wall
- **E** - Below MCC panel
- **F** - Inside the 5th cabinet on the street-side.



GFCI Testing and Reset

Test the GFCI circuit and reset if necessary, to ensure the electrical safety of the AC outlets. Follow the below

procedure to test and reset the circuit:

Note: Prior to testing, ensure that either the ambulance engine is running or the shoreline plug is connected.

Action	Result
Identify and press the Test button on the AC outlet to test the circuit.	• GFCI circuit is tripped. • Electrical supply to all the 120V AC outlets is stopped. • The indicator light color changes from green to red. • The Reset button pops out.
Note: The AC outlet that is located near the attendant seat in the MCC is the only one equipped with the test button.	
Press the Reset button to reset the GFCI circuit	The electrical supply is back on The indicator light color changes from red to green, indicating that the GFCI is reset successfully.
	Note: In the event of an unsuccessful test procedure, contact customer care for further inspection and repairs.

Incubator Outlets

RADIO SYSTEM

The radio system in the ambulance is designed to provide reliable, clear communication for emergency medical services (EMS) operations.

Key Components

1. **Radio Head:** The radio head can be mounted on the center console. The unit may already have a radio head mounting provision made, depending on the specific request.
2. **Antenna System:**
 - The unit is equipped with seven antenna ports on the ceiling.
 - The ports are covered from the patient compartment ceiling.
 - The ports are pre-wired and ready for future installations.
 - Four (4) antenna ports are equipped with 0.5" ID radio pull tubes. These tubes allow for optional coaxial cables to be installed for enhanced radio communication, providing flexibility for future system upgrades.
3. **Speakers:** Two radio speakers are mounted in the patient compartment ceiling. These speakers ensure clear audio coverage throughout the patient care area

SIREN

The ambulance is equipped with a Whelen 295HF series siren system. The Siren controller and integrated amplifier are mounted on the driver console, with two loudspeakers mounted in the front grille of the ambulance. The speakers are either mounted outside or inside of the grille, depending on the selected configuration.



The siren system enables different siren tones for varying levels of urgency. The controls adjust the radio volume and facilitate the generation of specific alert tones as needed. Additionally, the optional Howler system provides an extra layer of warning for intersections and high-risk areas, emitting deep tones that penetrate other vehicles to alert drivers and pedestrians of the ambulance's approach. Refer [Siren Controls](#).

LIGHTS

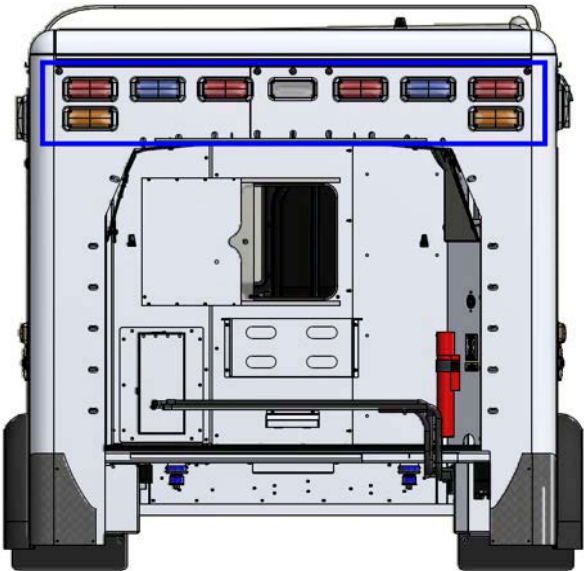
The ambulances are equipped with a comprehensive lighting system designed to ensure maximum visibility, safety, and operational efficiency. This section provides detailed information on the various lighting components and their functions, including exterior emergency lights, interior compartment lights, and control systems.

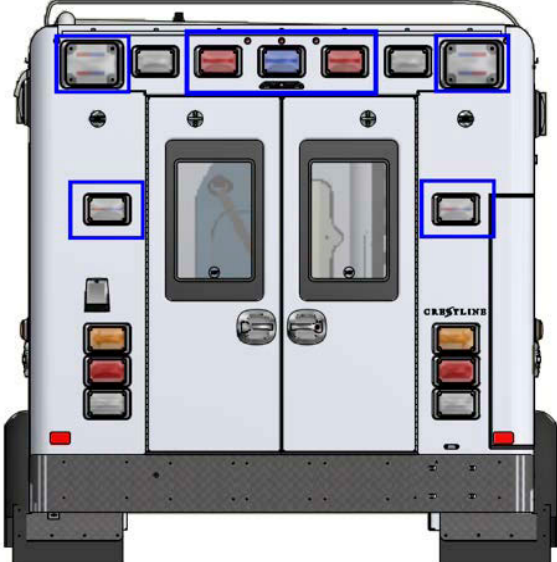
EMERGENCY LIGHTS

The vehicle is equipped with multiple emergency lights to alert other drivers and pedestrians, signaling urgency. The unit includes either standard 900 Series or M-Series Whelen lights, with optional chrome bezels. The lens is clear by default but can be selected in colored options. The emergency lights have two activation modes:

Primary Mode

Primary mode activates all emergency lights on the vehicle. To activate this mode, press the emergency light rocker switch at the FCC upwards. A standard FleetMax 2.0 unit includes the following emergency lights:

	• The upper front of the box features either a five-light or seven-light configuration, with a series of red and blue lights. Note: Blue lights are only permitted in certain provinces and may be restricted based on local regulations. • Optionally, there can be two amber indicator lights on both sides.
	• The grille features two red lights. • Additionally, on a Ford chassis, two wig-wag lights are installed. On a Chevrolet chassis, the high beams perform the wig-wag function.

	The curb-side and the street-side features two red-blue flasher lights on each sides of the unit. Note: Blue lights are only permitted in certain provinces and may be restricted based on local regulations.
	The rear of the patient compartment area features either a three-light or five-light configuration, with a series of red and blue lights. Note: Blue lights are only permitted in certain provinces and may be restricted based on local regulations.

Secondary Mode

Press the emergency light rocker switch at the FCC downwards to activate the secondary mode. When activated, the following emergency lights gets activated.

1. The two red lights on the grille
2. Rear emergency lights.

DAY/NIGHT MODE (IF AVAILABLE)

The day/night mode adjust the emergency lighting brightness based on surrounding light levels. The system automatically detects and adjusts light intensity to suit the environment, whether day, night, or tunnel, to enhance visibility without causing glare. This reduces eye fatigue and improves road safety. Refer the MMC partner documentation for more information.

SMOOTH PATTERN (IF AVAILABLE)

The smooth pattern feature helps alert road users without impairing their vision. When in Park mode, this feature reduces the intensity of emergency flashes, allowing Primary and Secondary lights to maintain visibility at the scene. This approach improves safety for EMS providers and offers passersby a clearer view of their surroundings. Refer the MMC partner documentation for more information.

SCENE LIGHTS

There are six scene lights with two each located at the right and left side of the patient compartment and two at the back of the patient compartment. These lights turns on and gradually turns off within 1.5 seconds, to reduce the glare. The scene lights are identified as follows:

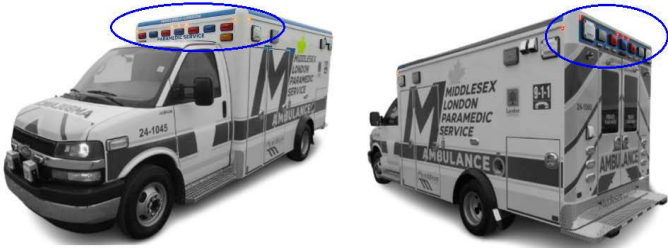
- Right scene lights
- Left scene lights
- Rear load lights

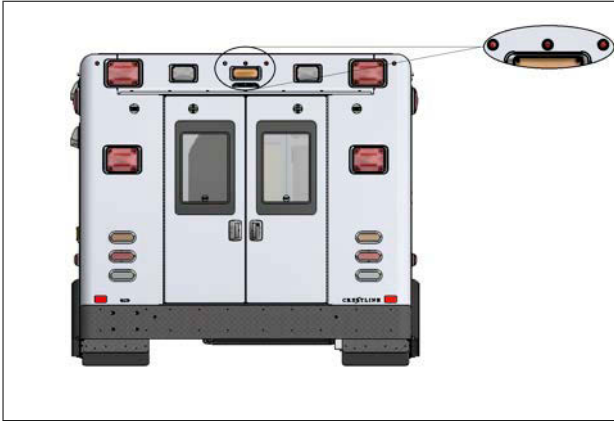
Refer the below table for the activation methods:

Scene Light	Activation/Deactivation Method
Right scene lights	To activate, tap the  (right scene light) button, on the Cabin tab, at the FCC touch screen. Tap the button again to deactivate. Also, the lights activates automatically when the side entry access door is opened and deactivates when the side entry access door is closed.
Left scene lights	To activate, tap the  (left scene light) button on the Cabin tab at the FCC touch screen. Tap the button again to deactivate.
Rear load lights	To activate, tap the  (rear loading lights) button on the Cabin tab at the FCC touch screen. Tap the button again to deactivate. Also, the rear load lights activates automatically when the rear entry access door is opened and deactivates when the rear entry access door is closed. Note: The rear load lights do not activate when the transmission is set to D (drive) mode.

EXTERIOR LIGHTS

The ambulances also features the following exterior lights for efficient operation and safety:

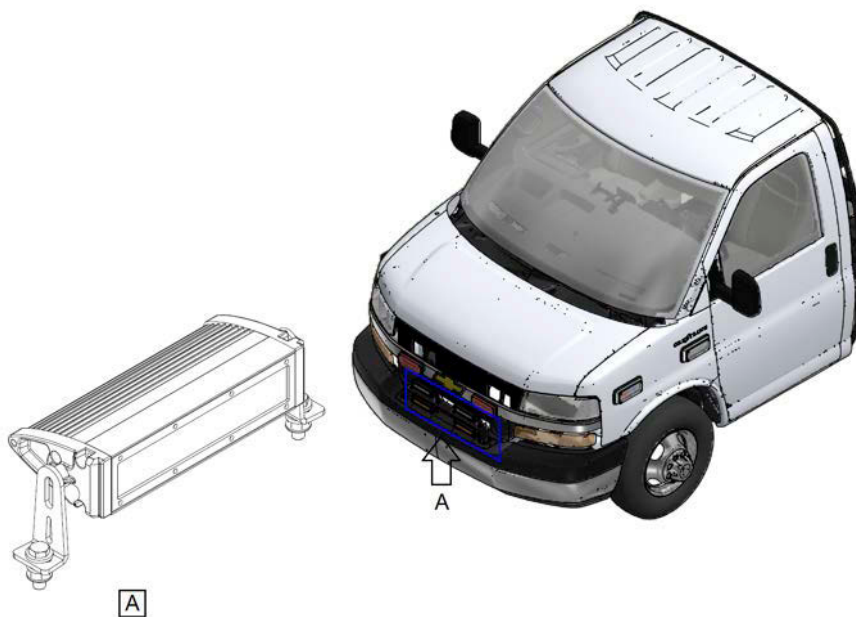
	- Two amber LED turn lights or 7x3 amber turn lights (optional) above the rear wheel. or - Two 7x3 red/amber lights above the rear wheel.
	- Two red LED brake/tail lights or 4x6 brake/tail lights on rear. - Two amber LED turn lights or 4x6 arrow turn lights on rear. - Two white LED reverse lights or 4x6 LED reverse lights on rear.
	- Five red clearance lights are located at the rear of the unit. - Five amber clearance lights are mounted on the front-top side of the patient compartment. - Two lights (amber at the front and red at the rear) are positioned on both the curb side and rear side of the patient compartment. Note: Chevrolet and Ford chassis have different behaviors in their automatic and manual light controls. For full details on the operation of clearance and tail lights, please refer to the chassis owner's manual.



Three high-mounted center brake lights that function as auxiliary brake lights

CHASSIS LIGHTS

The ambulance includes standard chassis lights, such as headlights and indicator lights. Optionally, the chassis can be equipped with LED driving lights and amber LED fog lights mounted on the front grille.



GROUND LIGHTS (IF EQUIPPED)

The ground lights are installed on the side entry door, rear doors and underneath the chassis that helps light up the entry area. Opening the door automatically activates the ground light. The light is angled towards ground, lighting up the ground near the door entry area. Refer [“Door”](#) for the ground light location on the doors. Additionally, a ground light is installed at the patient compartment entry door stairs for better visibility.

PATIENT COMPARTMENT LIGHTS (CEILING LIGHTS)

Each vehicle is equipped with eight ceiling lights, with four lights each on both curb-side and street-side of the ceiling. These lights are controlled by the switches on the MMCs that are placed on the curb side and street side of the patient compartment.

Warning: Extended operation of the lights without the engine running or shoreline connected may result in battery discharge. Avoid using the ceiling lights while driving unless necessary.

Ceiling Lights Operation

Following are the three ways to operate the ceiling lights:

1. By the **CEILING LIGHTS rocker switch**: The ceiling lights in the patient compartment are controlled by the CEILING LIGHTS rocker switches located on the curb-side and street-side MMCs.
 - To activate the lights: Press the rocker switch up. All eight ceiling lights will illuminate together.
 - To adjust intensity: Each press of the switch increases the light intensity by one level, up to a maximum of level four.
 - To decrease intensity: Press the rocker switch down until the desired brightness is reached or the lights turn off.
2. By opening the side entry door or the rear door of the patient compartment: The lights will turn off 15 seconds after the doors are closed. If the doors remain open for 10 minutes with no activity detected inside the vehicle, the lights will automatically turn off until reactivated.
3. By the **buttons on the MCC** (curb and street side) touch screen. To activate the lights, follow the below steps:
 - a. Navigate to the Patient Compartment tab in the MCC screen
 - b. Tap the ceiling lights icon. Ceiling light icon with embedded 1 control the driver side ceiling light and ceiling light icon with embedded 2 controls the curb side ceiling light. Refer ["Touchscreen Controls"](#) to identify the appropriate ceiling light icon.

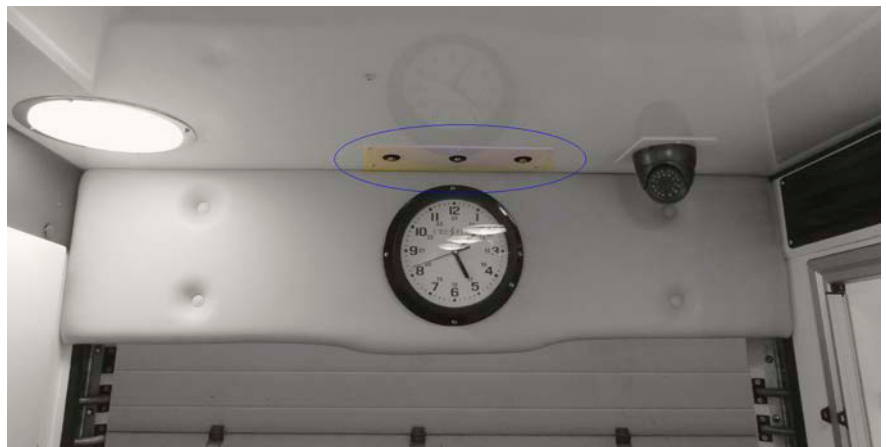
Note: Each tap on the ceiling light icon increases the light intensity by one level, up to a maximum intensity of level four. The fifth tap shuts off the light. Press the icon for more than one second to activate the lights at full intensity. Press again to deactivate.

CABINET/COMPARTMENT LIGHTS

All cabinets and storage compartments are illuminated. In the standard configuration, round compartment lights are mounted inside each external cabinet. There is an option to upgrade to high-intensity LED rope lights for enhanced visibility. The lights automatically turn on when the compartment door is opened.

DRIVER INTENTION LIGHTS (IF EQUIPPED)

The driver intention lights are mounted on the rear ceiling and provide visual signals to the medical team or others inside the ambulance regarding the driver's actions. These lights indicate turn signals and stop signals.



DRIVER'S CABIN

The driver's cabin has the following system or accessories in place:



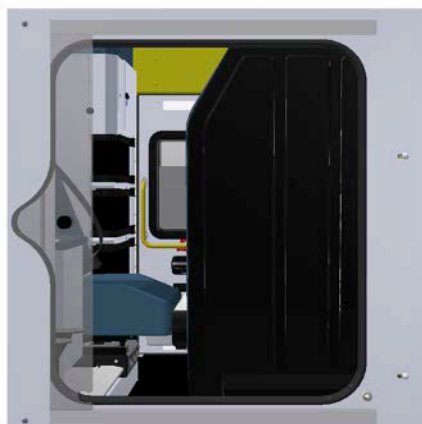
CABIN READING LIGHTS

Every ambulance has a reading light installed on the passenger side. An optional reading light can also be installed on the driver side. Both lights are mounted on the ceiling of the driver's cabin. Each light is controlled by a toggle switch located next to it. The lights are available in two colors: red and white.

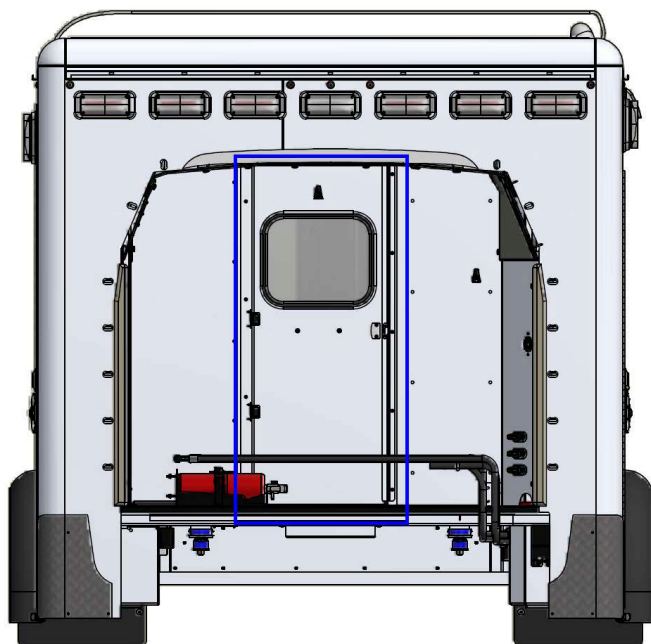


TALK-THROUGH SLIDING WINDOW (IF EQUIPPED)

The ambulance is equipped with a talk-through sliding window to facilitate communication between the driver's cabin and the patient compartment. The sliding mechanism helps seamless interaction between the cabin and the patient compartment while minimizing external noise interference.

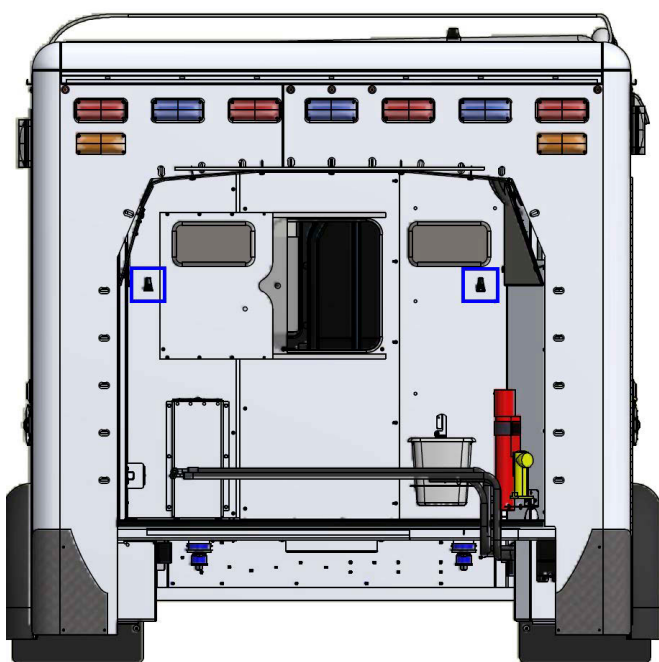


A



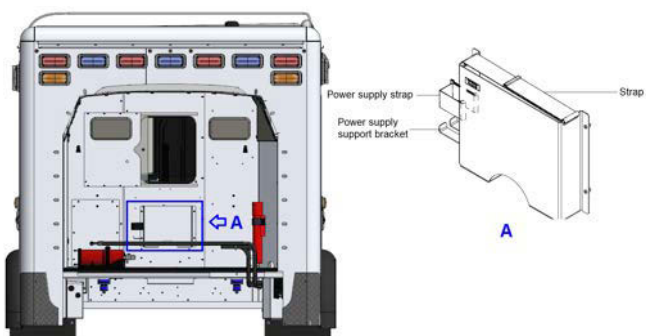
WALK-THROUGH WITH DOOR (IF EQUIPPED)

The door, located in the forward bulkhead of the ambulance, provides access from the driver's cabin to the patient compartment. This door can also be optionally equipped with windows featuring openings or perforations to facilitate communication between the driver and the personnel in the patient compartment. This design enhances operational efficiency and ensures better coordination during emergency situations.



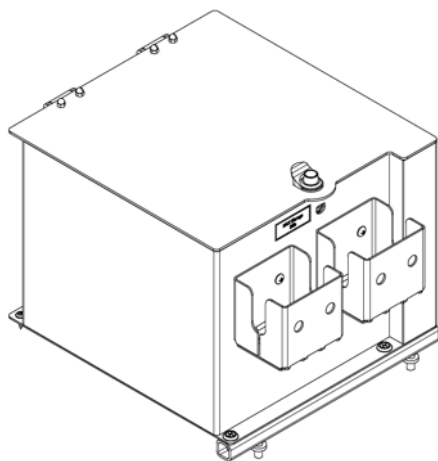
COAT HOOKS (IF EQUIPPED)

The ambulance is equipped with two coat hooks on either side of the chassis bulkhead.



LAPTOP POCKET (IF EQUIPPED)

The laptop pocket is mounted below the talk-through sliding window on the rear cabin wall and can accommodate a laptop with dimensions up to 14" x 12" x 3". To secure the laptop, remove the strap, place the laptop inside the pocket, and then fasten the strap to keep it in place. The strap and support brackets also provide routing options for the laptop charger.



CONSOLE MOUNT WITH LID

A console is mounted between the driver and passenger seats in the driver's cabin for storage. In a standard configuration, the console features a net with a middle opening secured by buckles and Velcro, along with two cup holders. Optionally, the console can be equipped with a lid that opens upward to provide enclosed storage.



CAB DOOR POCKET (IF EQUIPPED)

A cab door net is installed in the cab door pocket, providing a convenient storage solution. The elastic mesh ensures secure and flexible stowage of items.

ADDITIONAL RADIO HEAD (IF EQUIPPED)

The unit can be equipped with an additional radio head if needed. An optional bracket can be mounted on the dashboard to hold the additional radio head. Refer to the figure below for the bracket location.

UPGRADED AM/FM/STEREO (IF EQUIPPED)

The ambulance comes with a standard chassis AM/FM stereo system, included by default based on the selected chassis. Optionally, an aftermarket stereo system with an audio jack, Bluetooth, and SiriusXM capability can be installed. For more details, contact Crestline Customer Care

IGNITION KEYS AND FOBS

Additional chassis ignition keys and door fobs, up to a quantity of four, can be supplied upon request. These provide backup options for vehicle access and ignition, ensuring operational readiness and convenience in case of loss or the need for multiple users. For operation, refer to the chassis manufacturer's operator manual.

PATIENT COMPARTMENT ACCESSORIES

The following accessories are available inside the patient compartment:

SUCTION SYSTEM

The ambulance is equipped with a suction system that helps paramedics for some of the medical procedures.

The system consists of a suction pump, a pressure regulator, tubing, and an overflow canister. A standard ambulance is equipped with a wall-mounted SSCOR suction system.

Operation

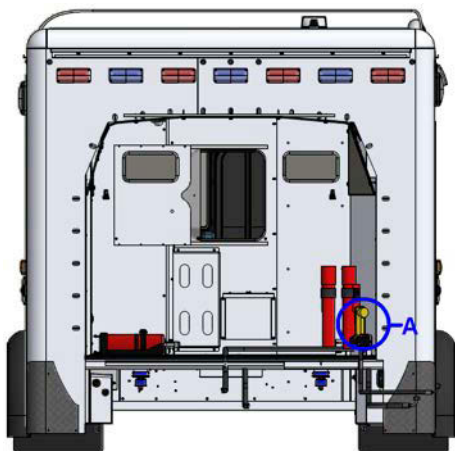
1. Locate the SUCTION rocker switch on the MCC panel and press it up to activate the system.
2. Adjust the airflow using the rotary switch below the dial, which shows the current flow rate.
3. To deactivate the system, press the rocker switch down.



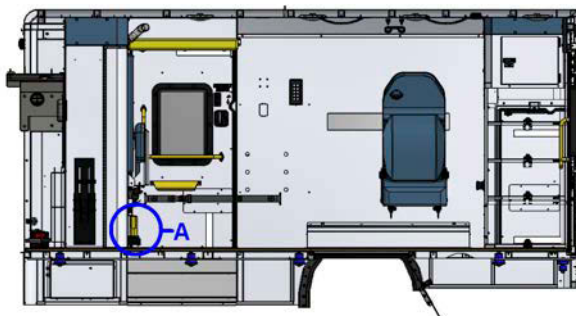
Note: For more information on operation and technical specifications, refer to the OEM suction system operator manual.

LED FLASHLIGHTS (IF EQUIPPED)

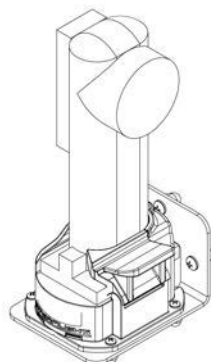
LED flashlights are mounted in the driver's cabin, behind the driver's seat, and at the side entry step well in the patient compartment. These rechargeable flashlights are secured in a charger mount. To use, simply pull the flashlight from the charger. It will begin charging automatically when placed back onto the charger.



Behind driver's seat



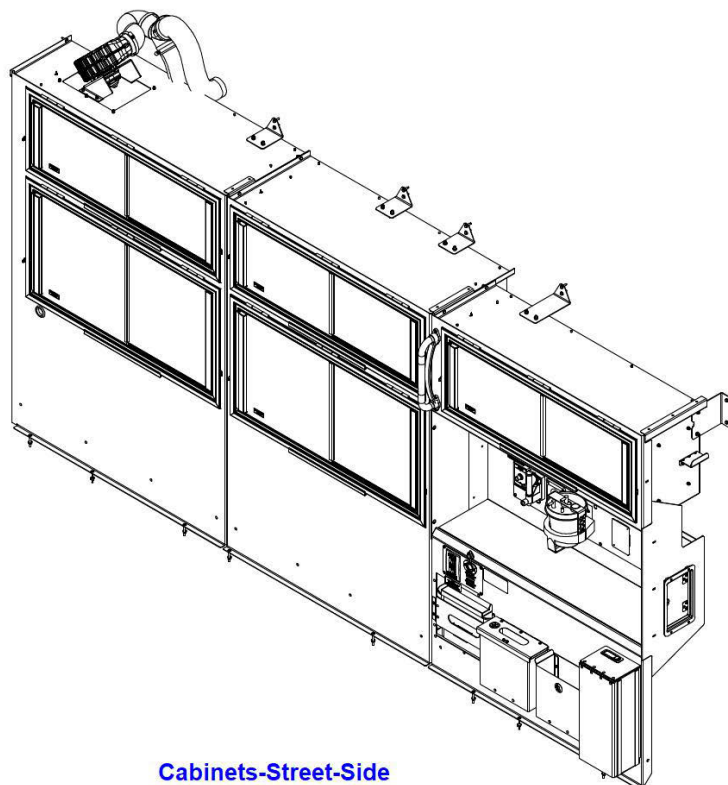
Curb-Side



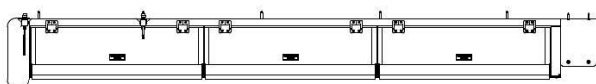
A

CABINETS

The ambulance includes multiple cabinets on both the street side and curb side. The cabinet layout may vary based on the seat configuration and specific customer requirements. Refer to the figure below for a general overview of the cabinet layout inside the patient compartment.

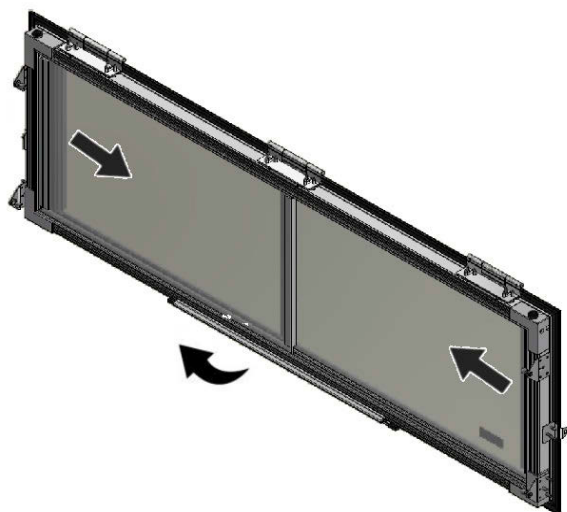


Cabinets-Street-Side



Cabinets-Curb-Side

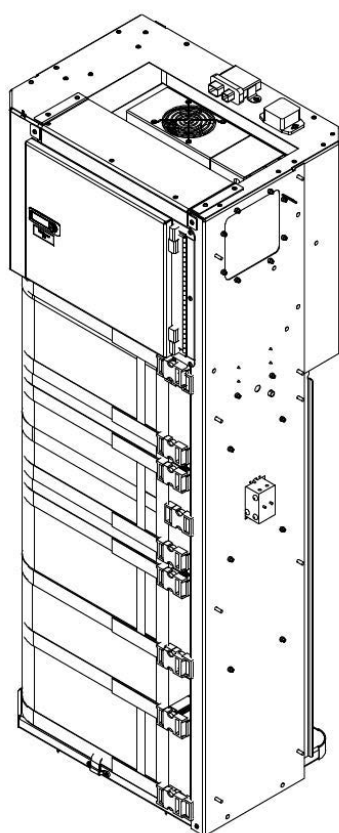
The cabinets include an aluminum counter-top as standard, with an option to upgrade to a stainless steel counter-top. Cabinets are available in two styles: fixed frames or restocking frames. To open a fixed-frame cabinet, lift the side lid and slide the frame. For a restocking frame cabinet, lift the bottom lid. All cabinets are illuminated with LED strips.



The street-side cabinets are also optionally available with dividers, that helps stock the medical items.



KIT-TREE



The unit has a kit tree located in the curb-side aft area with the following features:

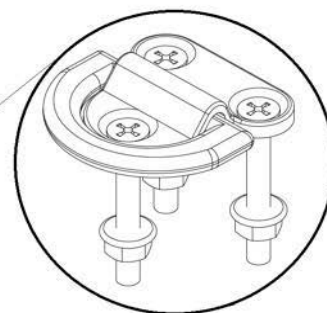
- The kit tree features adjustable shelves. To adjust the height, follow these steps:
 - a. Identify and loosen the screws securing the shelf.
 - b. Adjust the height by moving the shelf up or down.
 - c. Hold the shelf in position and tighten the screws.
- The shelves are equipped with adjustable straps to help secure loose items.
- Kit area can be equipped with a single cargo net that covers the entire shelf area or individual net that covers individual cargo shelves (Optional).
- A drug cabinet is mounted on top of the kit tree with an optional lockable feature.
- The drug cabinet can be optionally equipped with a temperature-controlled system, which includes a heated blanket to maintain warmth inside the cabinet.

IV WARMER (IF EQUIPPED)

The IV warmer is designed to maintain intravenous fluids at an optimal temperature, ensuring safe and efficient delivery to patients. This device operates on a 12-volt DC input, making it compatible with the vehicle's electrical system. A dedicated 12V outlet is provided to keep the system connected. The system is mounted inside the street side cabinet.



INCUBATOR RESTRAINTS (IF EQUIPPED)



The ambulance is equipped with multiple D-ring incubator restraints located near the rear door threshold. These clamps are securely mounted on the floor and are designed to safely restrain incubators during transport. To use the restraints, attach the incubator's straps or securing mechanisms to the D-rings, ensuring they are properly locked in place. Always verify that the connection is secure before transport.

CLOCK

Each unit comes with a standard analog clock mounted above the rear entry door. Alternatively, a recessed digital clock can be installed in place of the analog clock as an optional feature.

IV HOOKS

Four clip-style IV hangers are installed in the patient compartment, with two on each side. Additionally, two IV holder straps with Velcro fasteners are mounted below the hangers to securely hold IV bottles in place.

Recessed IV Hooks (If Equipped)

Recessed IV hooks are mounted on the ceiling, positioned over the main cot, secondary cot, or both. To use, pull the hooks down and attach the IV bottles. Velcro holder straps on the hooks help secure the bottles. When not in use, push the hooks back up into the recessed position.

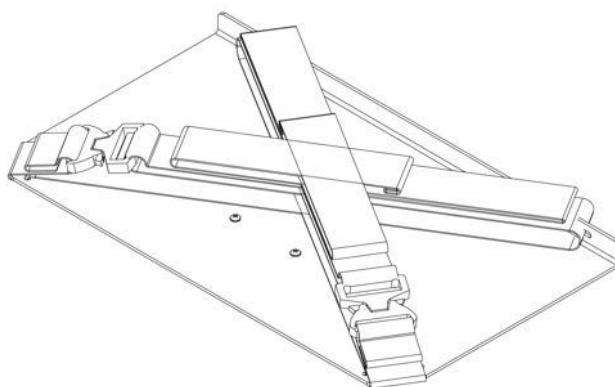


HEART MONITOR MOUNTING (IF EQUIPPED)

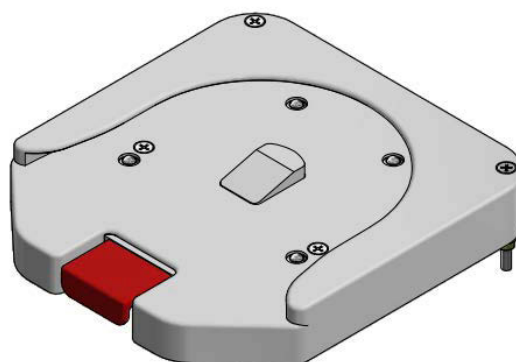
The ambulance includes heart monitor mounting solutions designed for the secure and accessible placement of monitoring equipment during emergency operations. The mounts can be installed on either the curb-side or street-side of the ambulance, depending on the patient compartment layout.

The following heart monitor mounting bases are optionally available inside the patient compartment:

Universal 2-Strap Monitor Mount:
Flexible and secure mounting for standard monitors using adjustable straps.



Heart Monitor Mounting Base:
Provides a stable platform for securely holding heart monitors.



The following mounting brackets can optionally be mounted on the mounting bases

Zoll X Series bracket



Zoll E Series bracket



LP 12 bracket



LP 15 bracket



- Heart Monitor Mounting Base with Zoll X Series Bracket: Designed specifically for the Zoll X Series monitor.

- Heart Monitor Mounting Base with Zoll E Series Bracket (Hard Case): Tailored for the Zoll E Series hard case monitor.

- Heart Monitor Mounting Base with LP 12 Bracket: Supports the LP 12 monitor.

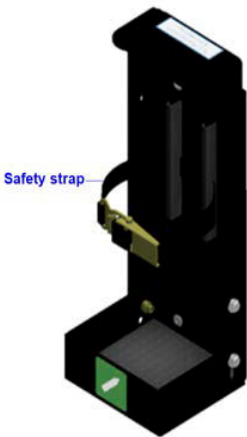
- Heart Monitor Mounting Base with LP 15 Bracket: Designed for the LP 15 monitor.

OXYGEN COMPARTMENT

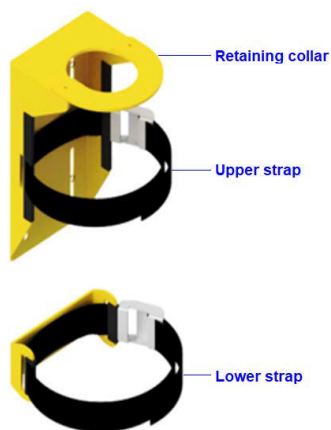
The ambulance has an oxygen compartment on the street side. The system includes O2 cylinders, tank brackets and the system manifold. The brackets feature straps and a neck retainer collar to secure the tanks. The oxygen compartment can be equipped with a 50 PSI oxygen pressure regulator which help regulate the flow of oxygen from the cylinder to the dedicated oxygen outlets in the patient care area. Additionally, a cylinder changing wrench is mounted on the wall of the oxygen compartment.

O2 Brackets

There are two types of oxygen cylinder bracket in an ambulance:

Portable O2 tank bracket 	Houses the portable O2 tanks. The number of portable O2 tanks in a unit may vary depending on the specific request from the customer. A typical portable bracket can accommodate a D-size or an E-size O2 cylinder. <u>Mounting the portable O2 tank on the bracket</u> 1. Loosen the safety strap. 2. Place the portable O2 tank in an upright position, ensuring it passes through the safety strap loop with the O2 valve facing upward. 3. Buckle the safety strap around the tank. 4. Pull the loose end of the strap to ensure that the tank is secured.
--	---

Fixed up-right O2 tank bracket

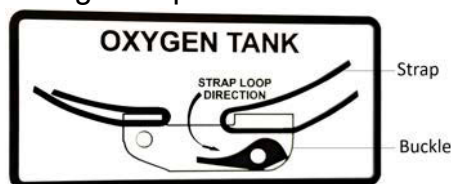


Houses the main O2 tank that supplies the oxygen to the patient compartment. The bracket can hold large sized oxygen or medical air tank ranging from M, G, H & K.

Mounting the main O2 tank on the bracket

1. Remove the retaining collar by removing the two screws holding it in place.
2. Loosen both upper and lower safety straps.
3. Place the O2 tank in an upright position, ensuring it passes through the safety strap loop with the O2 valve facing upward.

Note: Ensure that the strap is properly routed through the buckle as shown in the below diagram. Improper routing may result in difficulty securing the oxygen tank or cause the strap to loosen during transport.



4. Buckle the safety straps around the tank.
5. Pull the loose end of the straps to ensure that the tank is secured.
6. Reinstall the collar and secure it with the screws removed earlier.

Note: The O2 brackets available in the unit have been tested to meet the ambulance pressure vessel retention test standards, ensuring secure retention of oxygen cylinders under all operational conditions.

O2 TO GO OXYGEN SYSTEM (IF EQUIPPED)



The ambulance is optionally equipped with an O2 to Go oxygen system, located in the oxygen compartment. The system consists of a ramp, a cart and straps. The O2 to Go oxygen system helps ease the effort of loading and unloading the oxygen cylinders into the oxygen compartment.

Unloading and Replacing the Oxygen Cylinder

Warning: Handle oxygen cylinders with care. Improper handling can lead to serious injury or death.

Only trained and authorized personnel are permitted to handle oxygen cylinders.

Warning: Always wear appropriate personal protective equipment (PPE) such as gloves and safety glasses when handling oxygen cylinders.

1. Ensure that the oxygen gas valve is off.
2. Remove the Regulator.
3. Lift the ramp by sliding the ramp up from its holding brackets.
4. Attach the base of the ramp to the base of the O2 compartment platform. Ensure that the ramp is aligned with the slots in the base of the tank platform and that the decals marked "NO STEP" are facing upwards.
5. Release the vertical restraint collar and store it in the provided buckle latch at the top of the cabinet.
6. Release the larger horizontal cart buckles; pull the straps all the way out of the buckles.

7. While standing directly in front of the tank with one leg on either side of the ramp, slowly lower the handle of the oxygen cart to the horizontal position.



8. Slowly drag the oxygen cart down the ramp to a level surface. Remove the straps that are holding the tank to the cart. When finished, remove the O2 tank and replace it with a new filled tank.

O2 to Go Tank Loading

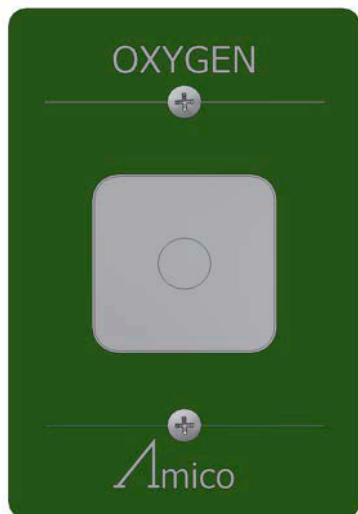
1. Ensure that the O2 tank is strapped to the cart. Push the oxygen cart up the ramp until the wheels fall into the compartment floor



2. Raise the handle until the oxygen bottle and cart are in the upright position. Ensure no straps are caught behind the oxygen tank.
3. Attach the two horizontal cart restraint belts and pull tight.
4. Keep the vertical restraint collar over the valve. Pull the straps tight to secure.
5. Secure the ramp by mounting it onto the brackets installed on the O2 compartment door.
6. Install the regulator onto the oxygen cylinder.
7. Turn on the oxygen gas valve. Inspect for any leaks.

OXYGEN OUTLETS

The ambulance has two oxygen outlets inside the patient compartment: one located on the MCC panel and another on the curb-side wall. Additionally, an optional outlet can be installed on the MCC panel and on the ceiling.



The oxygen outlets are connected to the oxygen cylinder mounted in the oxygen compartment. Follow the below procedure to use the oxygen outlets:

1. Ensure that the main oxygen tank valve is open.
2. Attach a flow meter with an appropriate DISS connection fitting to the ambulance wall mounted oxygen outlet.
3. Use the controls on the flow meter to regulate the flow.

OXYGEN FLOW-METER (IF SUPPLIED)

Oxygen flow meters are supplied separately. Based on the quantity required by the customer, Cresline supplies one or more 0-15 Liter Per Minute (LPM) oxygen flow meters. Oxygen flow rate at individual outlets is controlled by outlet-mounted flow meters. Refer to appropriate OEM regulator and flow meter documentation for proper use and care.

OXYGEN EMERGENCY BY-PASS VALVE (IF EQUIPPED)

The oxygen shut-off system electrical solenoid valve with by-pass switch is installed on the MCC panel. The system prevents unauthorized access of the oxygen system in the unit. The electrical solenoid is connected to the vehicle ignition enabling the oxygen system to power up when the vehicle ignition is on. In the event of power loss or electrical system failure, the manual by-pass knob can be switched from OFF to ON, maintaining access to the oxygen supply.

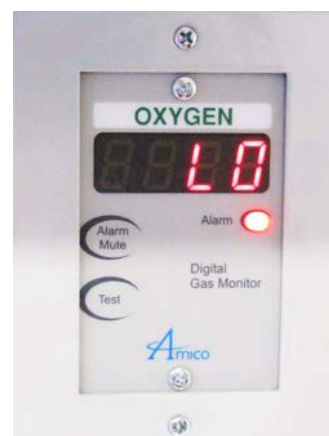
Specifications:

- Voltage: 12VDC
- Normal Operating Pressure: 50 psi
- Maximum Operating Pressure: 80 psi
- Test Pressure (when not in use): 200 psi



ELECTRIC OXYGEN GAUGE (IF EQUIPPED)

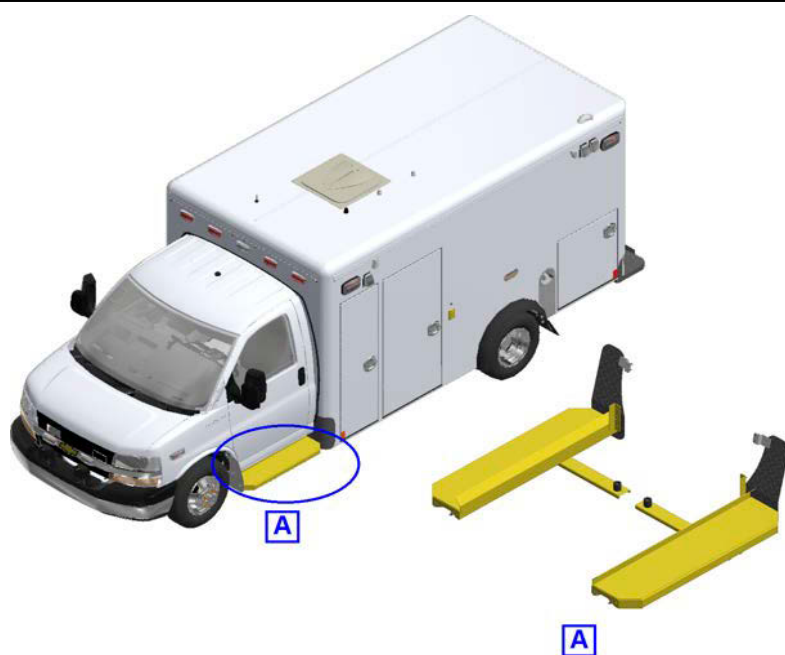
The electric oxygen gauge is installed on the MCC panel. This system efficiently monitors and manages oxygen pressure levels. It includes an adjustable alarm system that alerts users when oxygen levels fall outside the set point. Users can configure and save alarm settings using the "Alarm Mute" and "Test" buttons, ensuring a reliable oxygen supply during patient care.



Note: For detailed operating instructions, refer to the appropriate OEM model documentation.

EXTERIOR ACCESSORIES

The ambulance is equipped with the following accessories.



RUNNING BOARDS

The ambulance is equipped with aluminum running boards on both sides of the chassis. These running boards provide a stable and wide step surface for easy entry and exit. The textured surface prevents slipping. Mudflaps are also included to protect the lower body of the ambulance from mud, debris, and road grime.



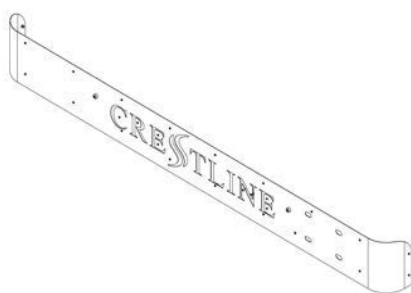
Bug Screen



Winter Cover

PROTECTIVE SCREENS (IF EQUIPPED)

- The ambulance is equipped with a bug screen, that prevents insects, leaves, and other debris from entering the radiator and other engine components.
- The vehicle is also equipped with a winter screen that regulates airflow to the engine and protects it from cold air, preventing over cooling.
- This helps maintain optimal airflow and prevents blockages that can cause overheating or damage.

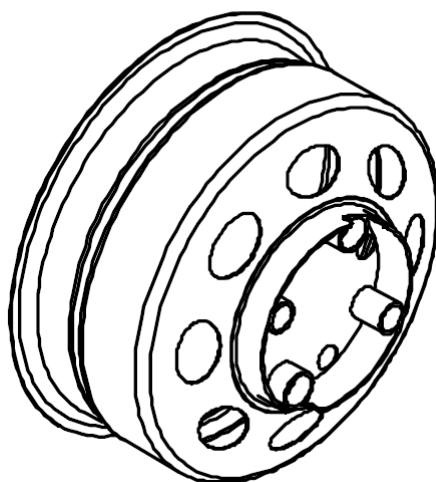
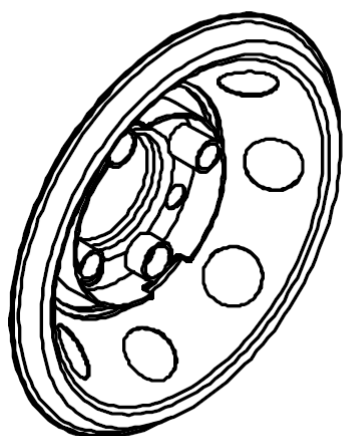


REAR KICK PLATE

The rear kick plates are made of aluminum, protecting the vehicle body from road debris and impact damage, and helping to reduce corrosion. A rear kick plate is a standard feature on all units, with an option to add text or a Crestline logo.

Front wheel cover

Rear wheel cover



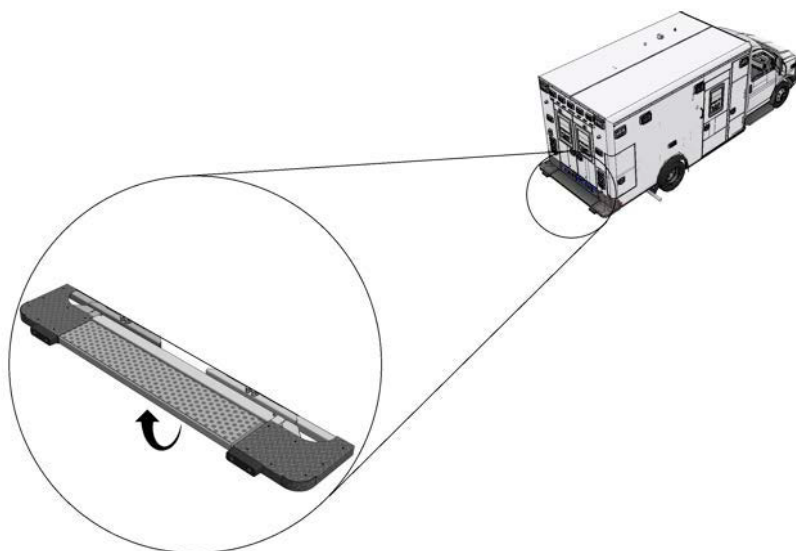
WHEEL COVERS (IF EQUIPPED)

The vehicle can be optionally installed with chrome wheel covers on all the wheels. These are decorative covers designed to fit over the wheels of vehicles. These chrome wheel covers not only enhance the aesthetic appearance of the vehicle but also provide additional protection for the wheels.

REAR-STEP BUMPER

The ambulance is equipped with a rear flip-up step bumper. When flipped down, it can be used as a step into the rear of the ambulance. When loading a patient, it may be necessary to flip up the bumper to avoid contact with the cot. To flip up the bumper:

1. Pull up on the rear edge of the center portion and rotate it upward until it makes contact with the rubber bumpers installed on the rear of the ambulance.



VALVE EXTENSION FOR INSIDE DUAL WHEEL (IF EQUIPPED)

The vehicle can be optionally installed with a stainless steel braided valve extension kit for the inside dual wheel. This is designed to provide easy access to the inner tire's valve stem, which can be challenging to reach due to its location on dual-wheel setups.

MIRRORS

Apart from the standard OEM mirrors, the following mirror options are available for different chassis options:

Ford E350	• Hadley Black chassis mirrors: 86-inch arms, remote adjustment, and heating. • Velvac 2020 Deluxe Black chassis mirrors: 86-inch arms, convex design for enhanced peripheral visibility, remote adjustment, and heating.
Chevrolet G3500	• Velvac 2020 Deluxe Black chassis mirrors: 86-inch arms, remote adjustment, and heating. • Hadley Black chassis mirrors: 86-inch arms, remote adjustment, and heating. • Velvac 2020 Black chassis mirrors: 86-inch arms, remote adjustment, heating, and blind spot detection.

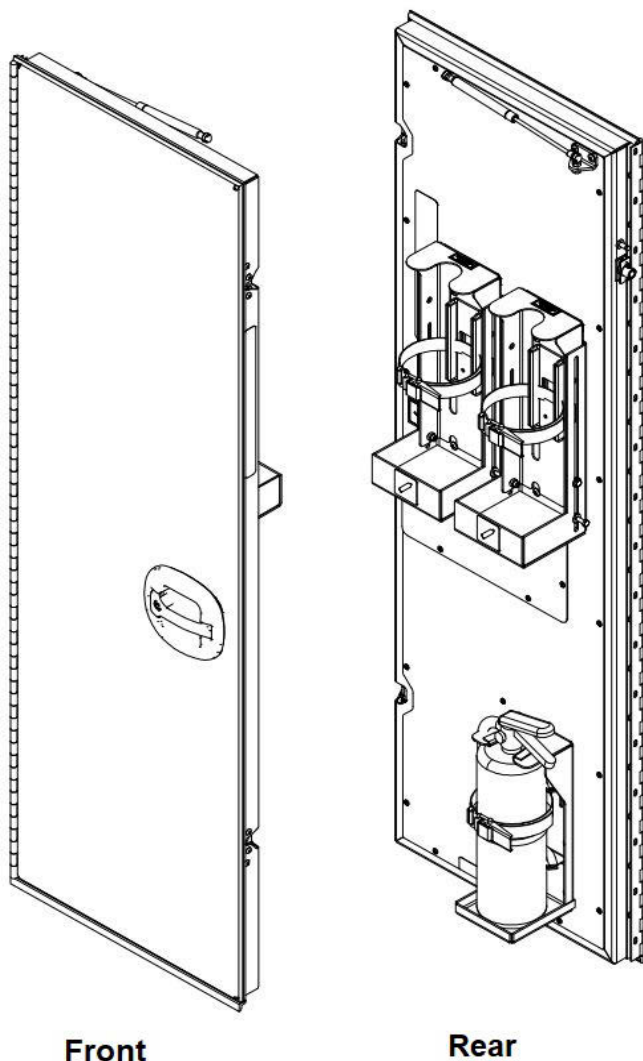
The optional mirror models for the Ford E350 and Chevrolet G3500 offer advanced features, including remote adjustment and heated mirrors, to enhance functionality and usability. The control switches are located on or near the driver's door. Refer to the associated chassis OEM owner's manual for detailed information on the controls.

DOOR

The patient compartment has three doors that provide access to the patient care area. Additionally, there are five other doors that enclose storage compartments, as well as the oxygen and electrical systems. Each door is fitted with two sets of seals, located on both the outer and inner edges. These seals help prevent dust, water, and other small foreign particles from entering the interior compartments. For identification purposes, the doors are classified as follows:

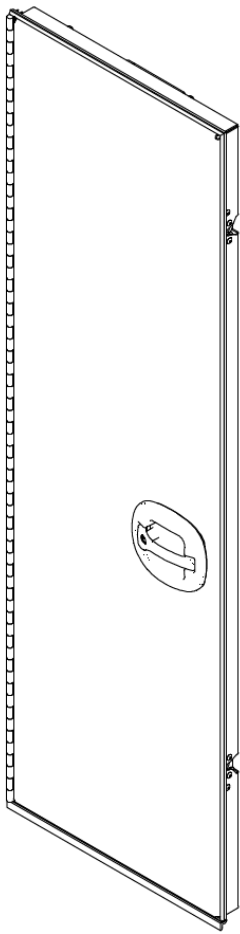
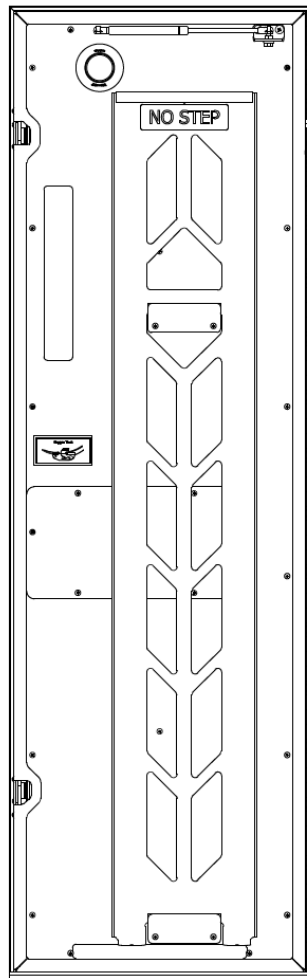
S1 DOOR

[Config 1](#)



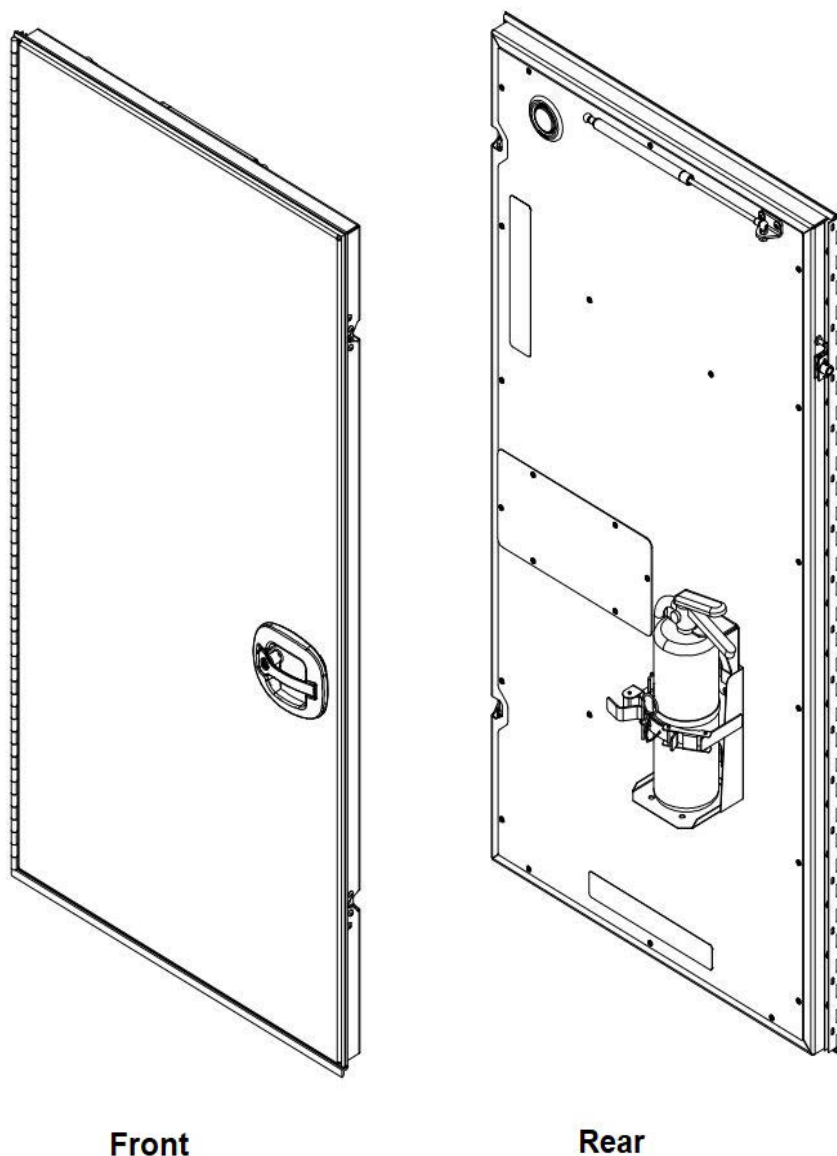
The S1 door, also called the oxygen compartment door, contains the ambulance unit's oxygen system. Oxygen cylinders are secured to the designated brackets inside the compartment. The door can also optionally house a fire extinguisher.

Note: The number of O2 cylinders installed depends on customer requirements.

[Config 2](#)**Front****Rear**

The S1 door houses an O2 to go system that consists of a ramp, a cart and straps. Refer [“O2 to Go Oxygen System \(If Equipped\)”](#) for more information.

S2 DOOR



Front

Rear

The S2 door, also called the ECC door, houses the Electrical Control Center (ECC). The ECC is a centralized system that manages and controls the ambulance's electrical components and systems. The door can also optionally house a fire extinguisher.

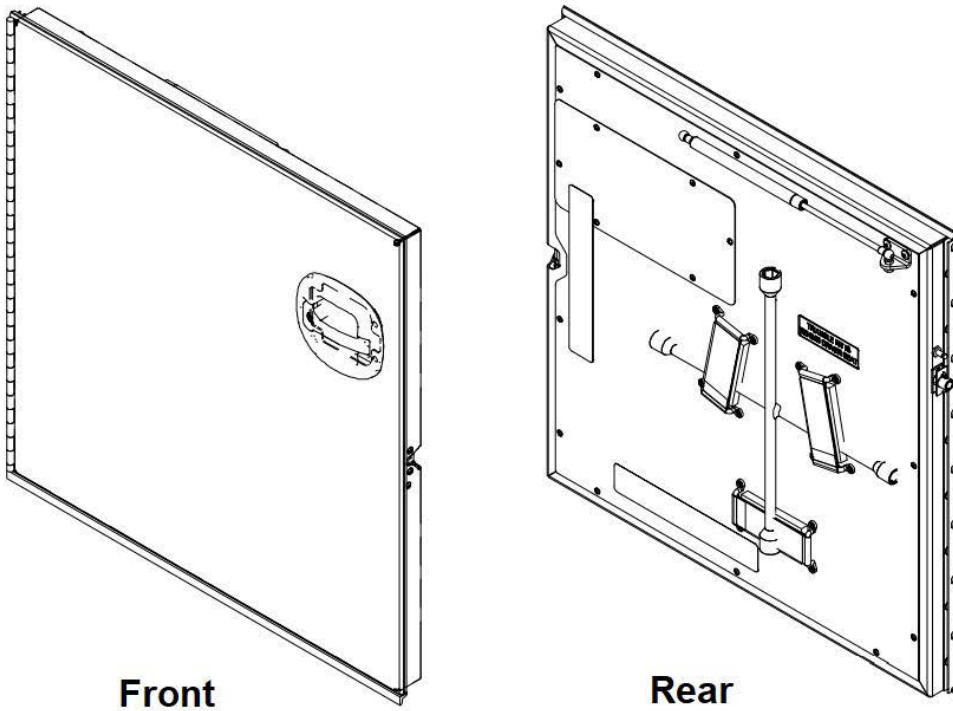
In standard units, the ECC door includes an automatic lock/unlock feature. This feature operates similarly to the chassis door lock/unlock system.

Note: The automatic door lock/unlock feature can be disabled to enhance security. An optional separate key, different from the chassis-supplied keys, can be used to restrict unauthorized access to the ECC compartment.

ECC Cover (If Equipped)

The ECC compartment can be equipped with a transparent cover, pre-fitted with mounting points. The cover helps prevent the storage of unauthorized or unwanted items in the compartment. It is secured in place using screws.

S3 DOOR (STORAGE)

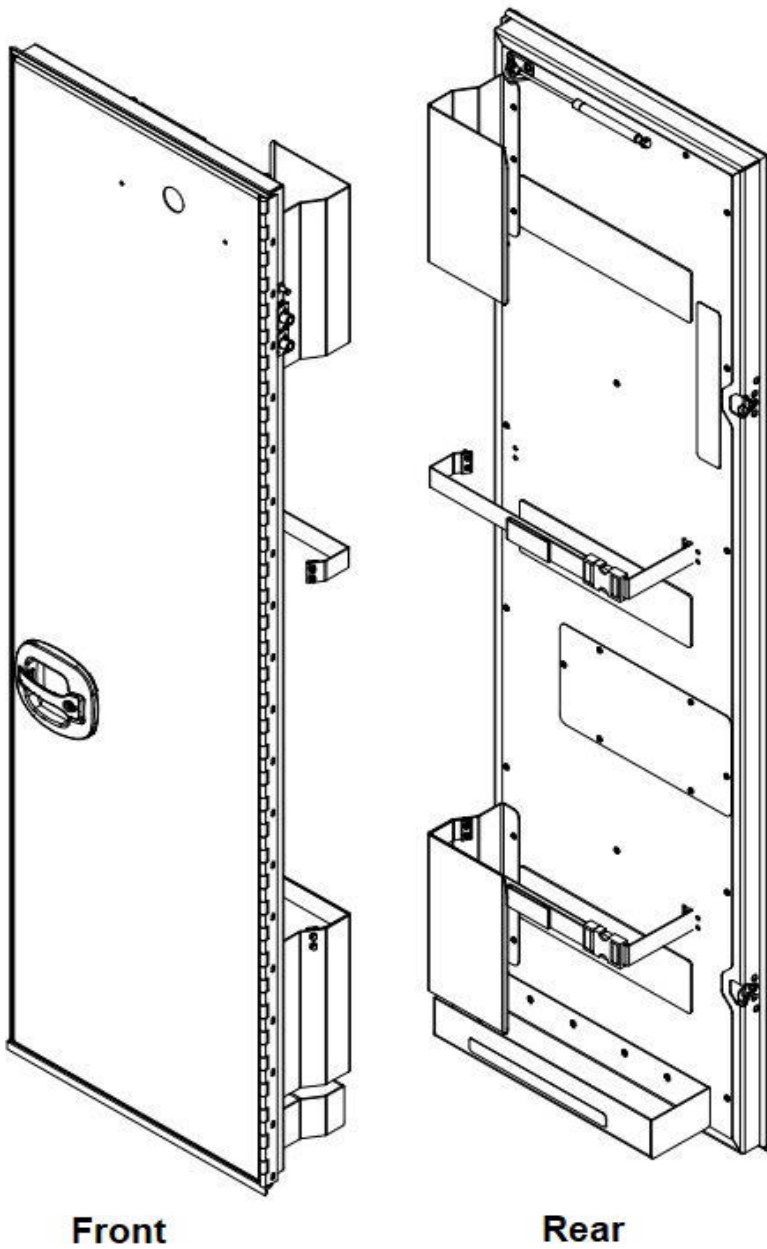


The S3 door, also called the storage compartment door, houses the provision for a spare wheel, the jack and the wheel lug wrench.

Note: The S3 compartment can be used as a storage compartment with adjustable shelves. In this configuration, the spare tire, jack, and wheel lug wrench are provided as loose items.

C1 DOOR

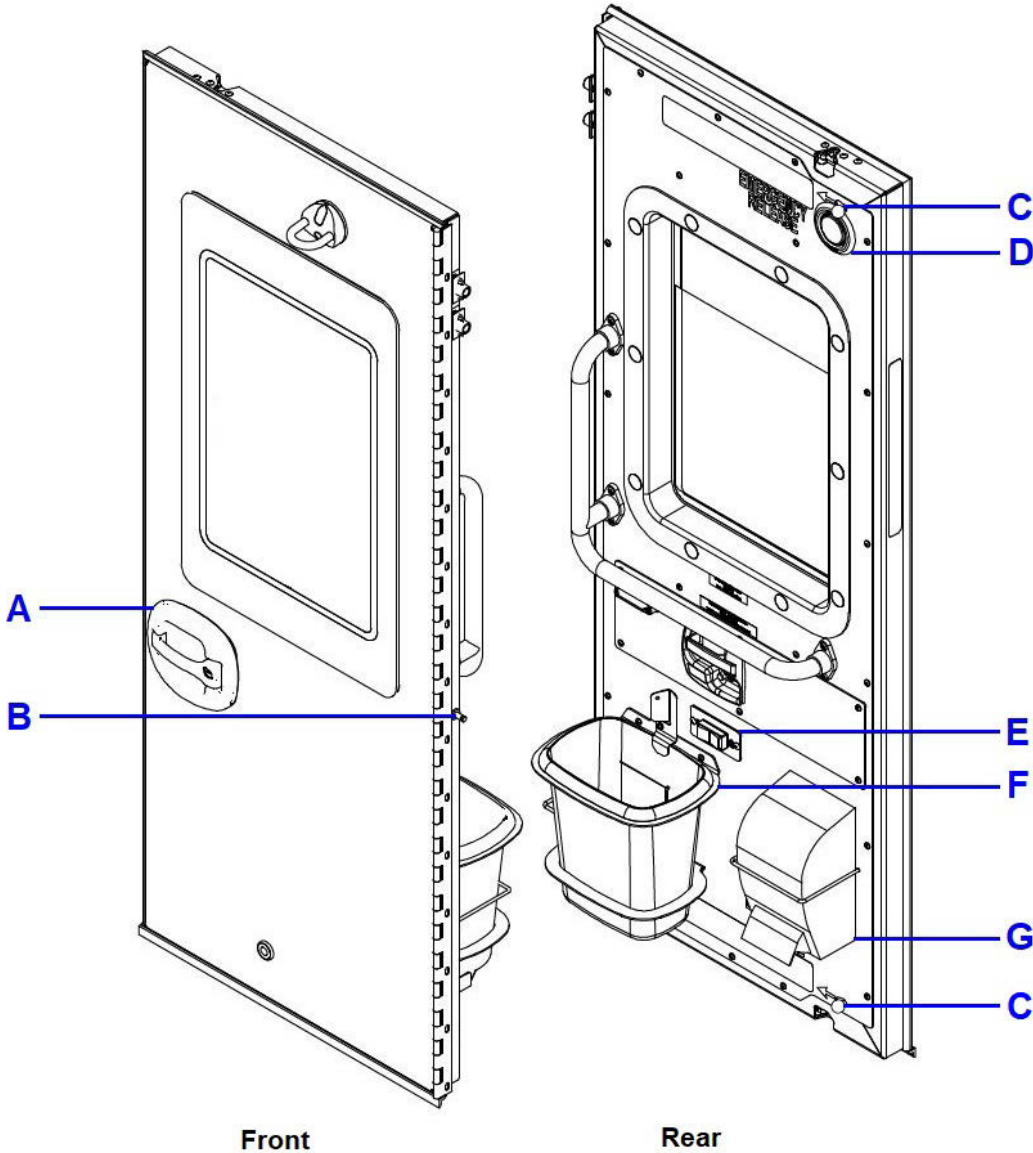
The C1 door houses the storage compartment for personal protective equipment (PPE). The compartment also includes a battery well at the bottom, designed to hold two conversion batteries.



C2 DOOR

The C2 door, or side entry door, provides access to and from the patient compartment. The following accessories are available on the door.

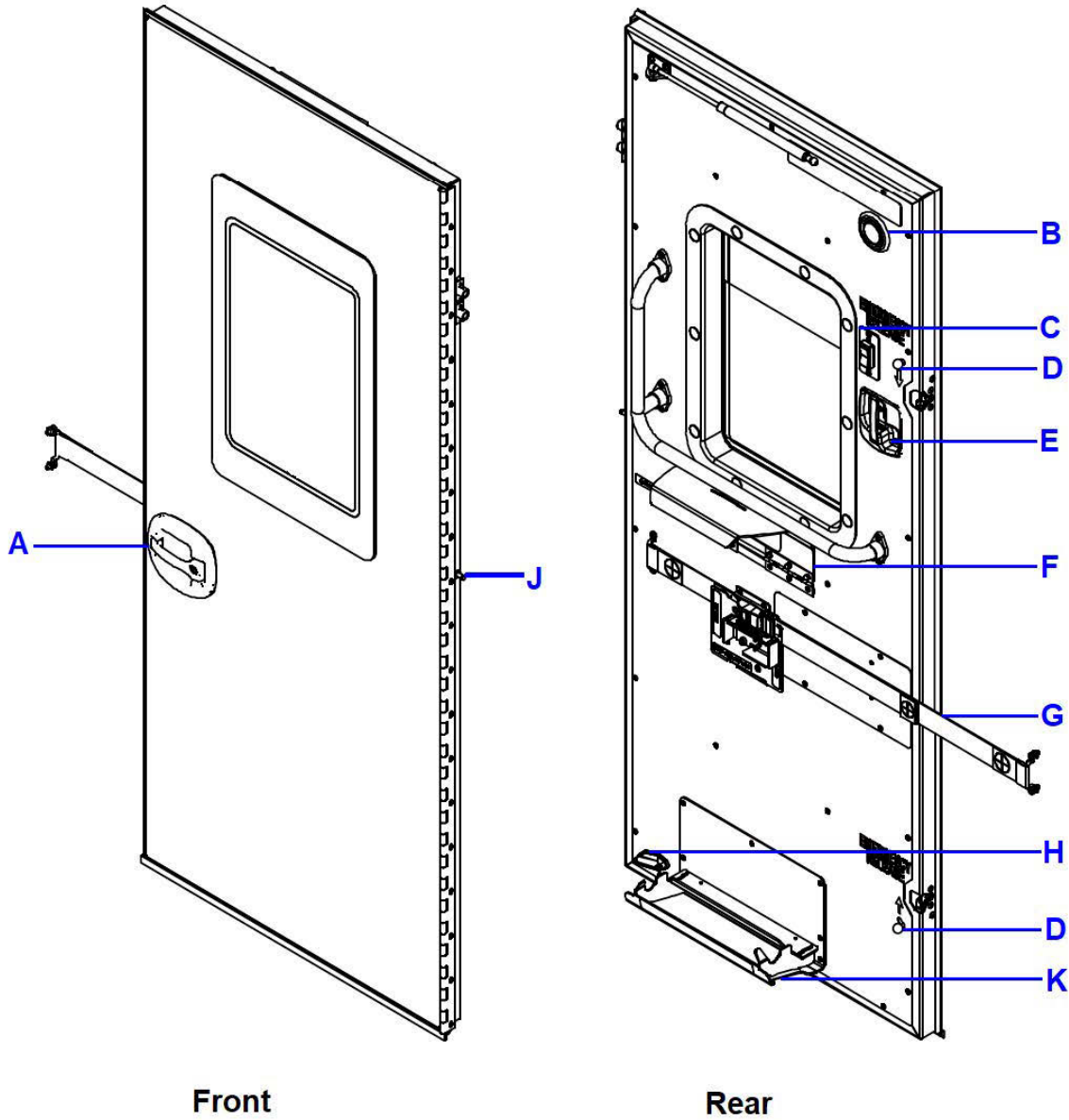
Config1



	Name	Function
A	Door Handle	Pull the handle to open the door.
B	Door Ajar Switch	Opening the C2 door activates the street-side scene lights and the patient compartment lights. The door ajar switch manually deactivates both sets of lights. The operation is as follows: - Press the switch once to deactivate the scene lights. - Press the switch twice to deactivate the patient compartment lights.
C	Emergency Door Knob	Refer “Emergency Door Release” for more information.
D	Door Flasher	A round red LED light is installed and flashes when the door is open.

	Name	Function
E	Door Lock/Unlock	Controls the locking mechanism of the door.
F	Waste Bin	Mounted waste bin
G	Hand Sanitizer	Mounted hand Sanitizer

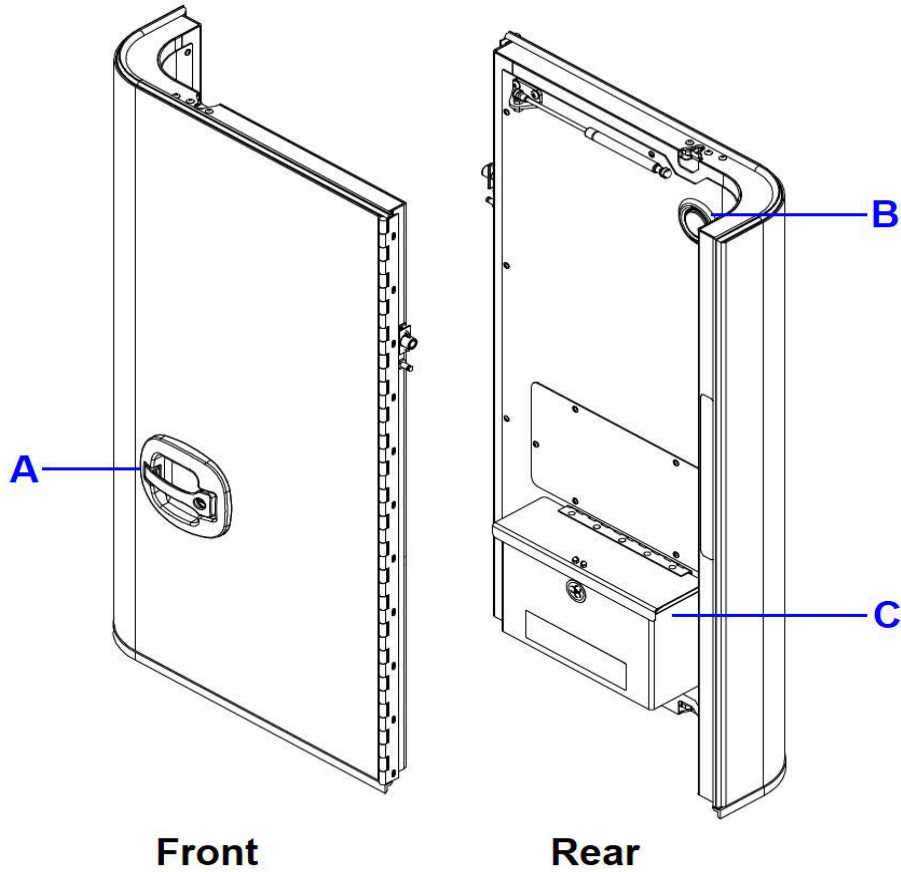
[Config 2](#)



	Name	Function
A	Outside Door Handle	Pull the handle to open the door.
B	Door Flasher	A round red LED light is installed and flashes when the door is open.
C	Door Lock/Unlock	Controls the locking mechanism of the door.
D	Emergency Door Knob	Refer “Emergency Door Release” for more information.

	Name	Function
E	Inside Door Handle	Pull the handle to open the door.
F	Stair Chair Holder: Upper Bracket	The bracket is spring-loaded and hinged. When mounted, it holds the stair chair from top.
G	Stair Chair Holder Harness	Holds the stair chair when mounted.
H	Ground Light (Optional)	Opening the door automatically activates the ground light. The light is angled at 45° towards ground, lighting up the entry area near the door.
J	Door Ajar Switch	Opening the C2 door activates the street-side scene lights and the patient compartment lights. The door ajar switch manually deactivates both sets of lights. The operation is as follows: - Press the switch once to deactivate the scene lights. - Press the switch twice to deactivate the patient compartment lights.
K	Stair Chair Holder: Lower Bracket	The fixed bracket installed to mount the stair chair.

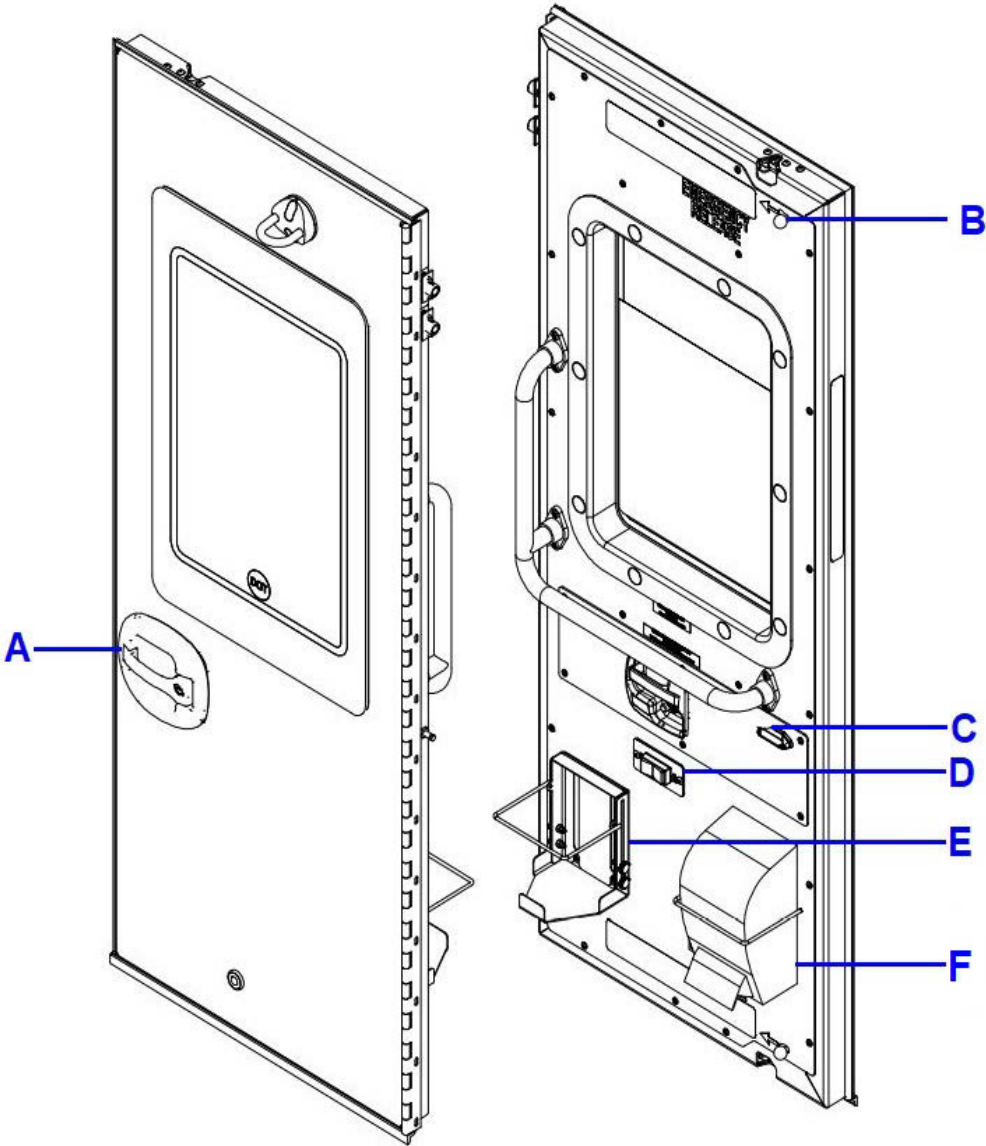
C3 DOOR



C3 door also known as kit-tree exterior access door encloses the storage compartment that can be accessible from both inside and outside of the patient compartment. The following accessories are available on the door.

	Name	Function
A	Outside Door Handle	Pull the handle to open the door.
B	Door Flasher	A round red LED light is installed and flashes when the door is open.
C	Bio-Hazard Container	A container is stowed at the back of the door to keep the bio hazard container

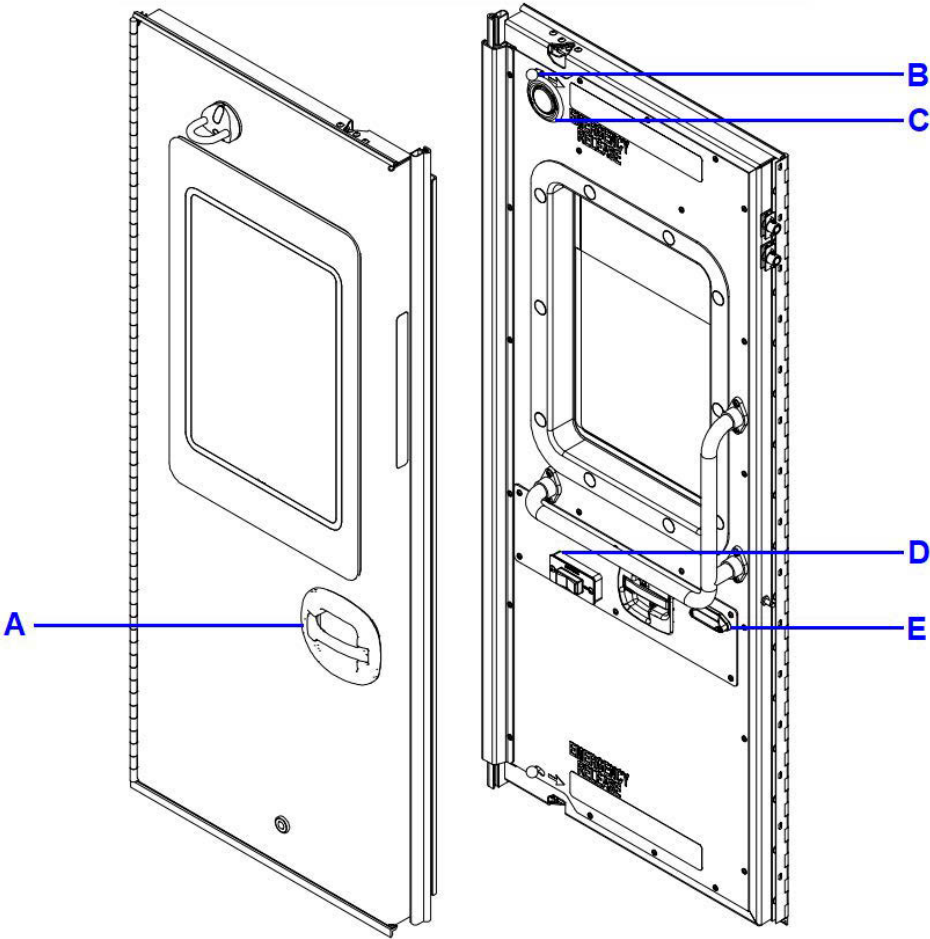
R1 DOOR



The patient compartment has two rear doors that provides access to and from the patient care area. The following accessories are available on the doors.

	Name	Function
A	Outside Door Handle	Pull the handle to open the door.
B	Emergency Door Knob	Refer “Emergency Door Release” for more information.
C	Ground Light	A 45 degree angled ground light is installed to light up the rear stair area.
D	Door Lock/Unlock	Controls the locking mechanism of the door.
E	Wipes Holder	Mounted wipes holder.
F	Hand Sanitizer Dispenser	Mounted hand sanitizer dispenser.

R2 DOOR



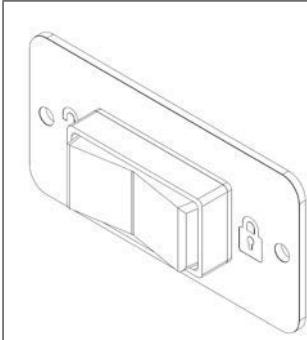
	Name	Function
A	Outside Door Handle	Pull the handle to open the door.
B	Emergency Door Knob	Refer “Emergency Door Release” for more information.
C	Door Flasher	A round red LED light is installed and flashes when the door is open.
D	Door Lock/Unlock	Controls the locking mechanism of the door.
E	Ground Light (Optional)	A 45 degree angled ground light is installed to light up the rear stair area.

AUTO-UNLOCK

The passenger compartment door is equipped with an auto-unlock feature designed to enhance convenience and safety. When the vehicle comes to a complete stop and is shifted into Park (P), this feature automatically unlocks the doors, allowing easy access for EMS personnel and patients.

Remote Door Unlock Switch

Manually lock or unlock the patient compartment door by pressing the door unlock switch placed on the curb-side and rear door (R2).



- To unlock, press the rocker switch toward the unlock icon.
- To lock, press the rocker switch toward the lock icon.

STAIR CHAIR (IF EQUIPPED)

The stair chair helps safely move patients up or down stairs, especially in confined spaces where stretchers cannot be used. It helps ensure smooth, controlled transport in multi-story buildings or tight stairwells.

The ambulance can be equipped with a stair chair holder. The holder is mounted on the curb side entry door and can accommodate the following stair chair models:

- Ferno Powertraxx
- Ferno Transcend Traxx
- Ferno 59X
- Stryker Pro

Warning: Ensure the stair chair is properly secured in the holder before closing the door. An unsecured chair can dislodge during transit, causing injury or damage.

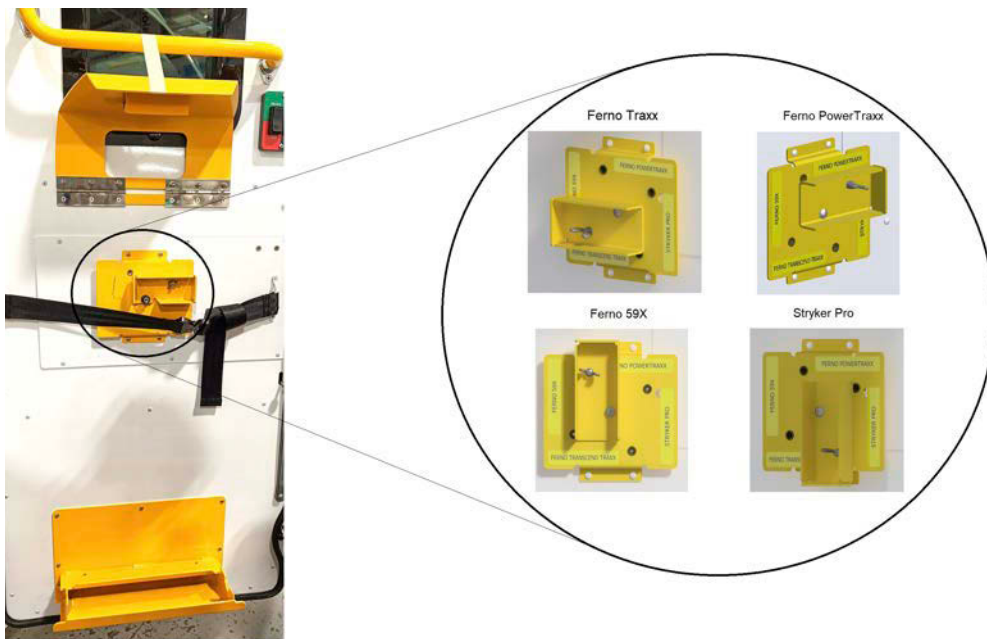
Warning: Heavy Equipment: Always use proper lifting techniques when handling the stair chair to avoid back injuries.

Note: Periodically inspect the holder and latch mechanism for wear or damage to ensure reliable operation.

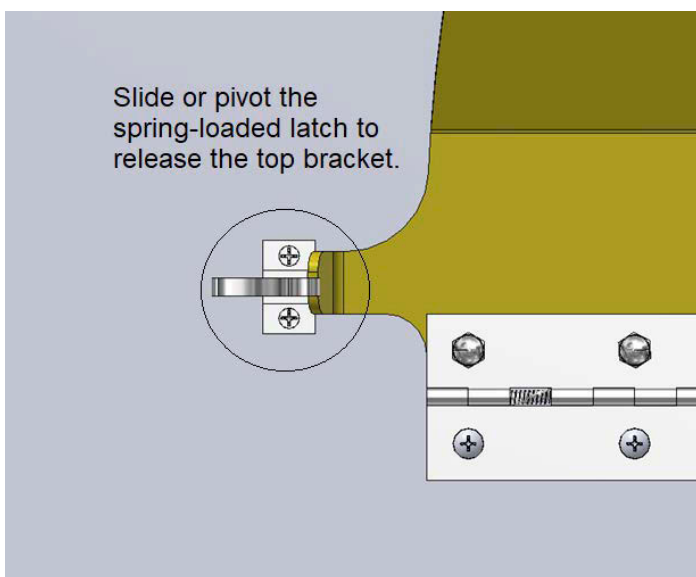
Installing the Stair Chair

To install a stair chair on the holder, follow these steps:

1. Ensure all arms and handles on the stair chair are collapsed.
2. Unbuckle the horizontal strap securing the stair chair on the door.
3. Flip the top bracket up. It is held in position by a spring-loaded latch.
4. Adjust the stopper position by rotating it until the stopper aligns with the orientation indicated by the identification sticker for your specific stair chair type. Refer to the figure below to identify the available stopper positions.



5. Position the stair chair so the track side faces the door.
6. Lift the stair chair onto the bottom brackets, ensuring the bottom bar sits in the bracket notch and the tracks remain outside the brackets. Push the chair firmly toward the door.
7. Release the top bracket by disengaging the latch, ensuring it secures around the top of the stair chair.



8. Release your hold on the stair chair; it should stay securely in place.
9. Buckle the horizontal strap around the stair chair and tighten it.
10. Verify the stair chair is secure by gently shaking the assembly.



Warning: Ensure the stair chair is fully secured before operating the vehicle. An unsecured chair can dislodge, causing injury or damage.

Caution: Always verify the spring-loaded latch is fully engaged to prevent accidental release.

Stair Chair Removal

To remove the stair chair, follow these steps:

1. Unbuckle the horizontal buckle around the stair chair.
2. Hold the top of the stair chair in place and lift the top hinged bracket to release the hold on the handle of the stair chair.
3. Pull the top of the stair chair away from the door until it clears the edge of the hinged bracket.
4. Release the hinged bracket.
5. Lift the stair chair up and out of the bracket, then set it on the ground.

SEATS

The ambulance provides adjustable seating in both the driver cabin and patient compartment for comfort and safety. See the following sections for details.

DRIVER'S AND PASSENGER POWER SEAT BASES

On Chevrolet chassis models, the ambulance includes power seat bases for both the driver and passenger. On Ford chassis models, only the driver seat has a power base. The driver's seat base includes power adjustments to enhance comfort and accessibility, allowing drivers to adjust their seating position according to their preference. The passenger seat base also provides powered adjustments to maximize comfort for front passengers (available on GM models only). For detailed instructions on driver's cabin seats features, please refer to the OEM documentation provided by the chassis manufacturer.

PATIENT COMPARTMENT SEATS

Following seats available in the patient compartment:

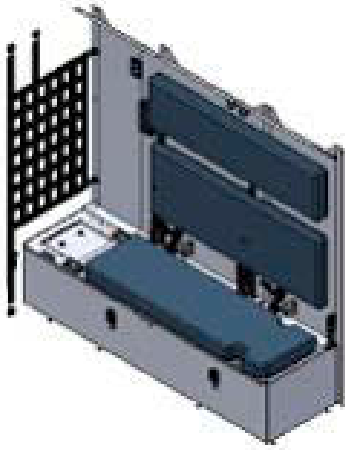


Airway Seats



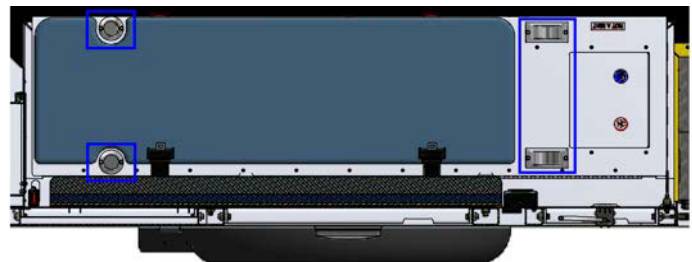
Airway Seat with Child Restraining

- The airway seat is positioned at the forward bulkhead of the patient compartment. This seat is normally rear faced.
- Equipped with a three point seat-belt.
- Forward and backward adjustment is available. Pull the lever at the bottom of the seat and slide the seat forward or backward to adjust (optional).
- Equipped with a five-point child restraint that folds into the seat. To use the child restraint, pull it out. When not in use, fold the restraint back into the seat to use it as a standard airway seat. (optional).
- Equipped with a lockable storage box base (optional).



Squad Bench

- The squad bench is located on the curb side inside the patient compartment.
- It accommodates up to two personnel.
- Two three-point seat belts are provided.
- The bench may include a storage compartment underneath:
 - To open the storage compartment, pull the lever at the bottom of the seat.
 - The storage compartment can hold a sharps container and a waste container.
 - Tie-down straps are mounted on the wall to secure a secondary patient stretcher.
- An alternative configuration is available without a base storage compartment:
 - In this configuration, the bench base can be flipped up to create space for a secondary patient stretcher.
- An additional third spine board retention strap is provided to secure the secondary patient stretcher (optional).
- Post-and-wheel cups to accommodate Ferno 9-series stretcher (optional).

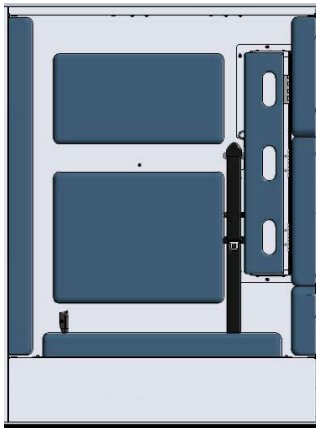


Post-and-wheel cups for Ferno 9 series stretcher



High mobility sliding seat

- The seat is mounted on a scuff plate, allowing it to slide along the surface. To adjust the seat, pull the lever located on the bottom right side.
- Equipped with a three point seat-belt.
- Forward and backward adjustment is available. Pull the lever at the bottom of the seat and slide the seat forward or backward to adjust.
- Recliner adjustment is available. Pull the lever on the left side of the seat and push the back support to adjust the recline.
- Swivel adjustment is available. Pull the lever outwards to swivel the seat. The swivel base can be either two-position or eight-position (optional).
- Post-and-wheel cups to accommodate Ferno 9-series stretcher (optional).
- Can accommodate a secondary patient on a spine board.

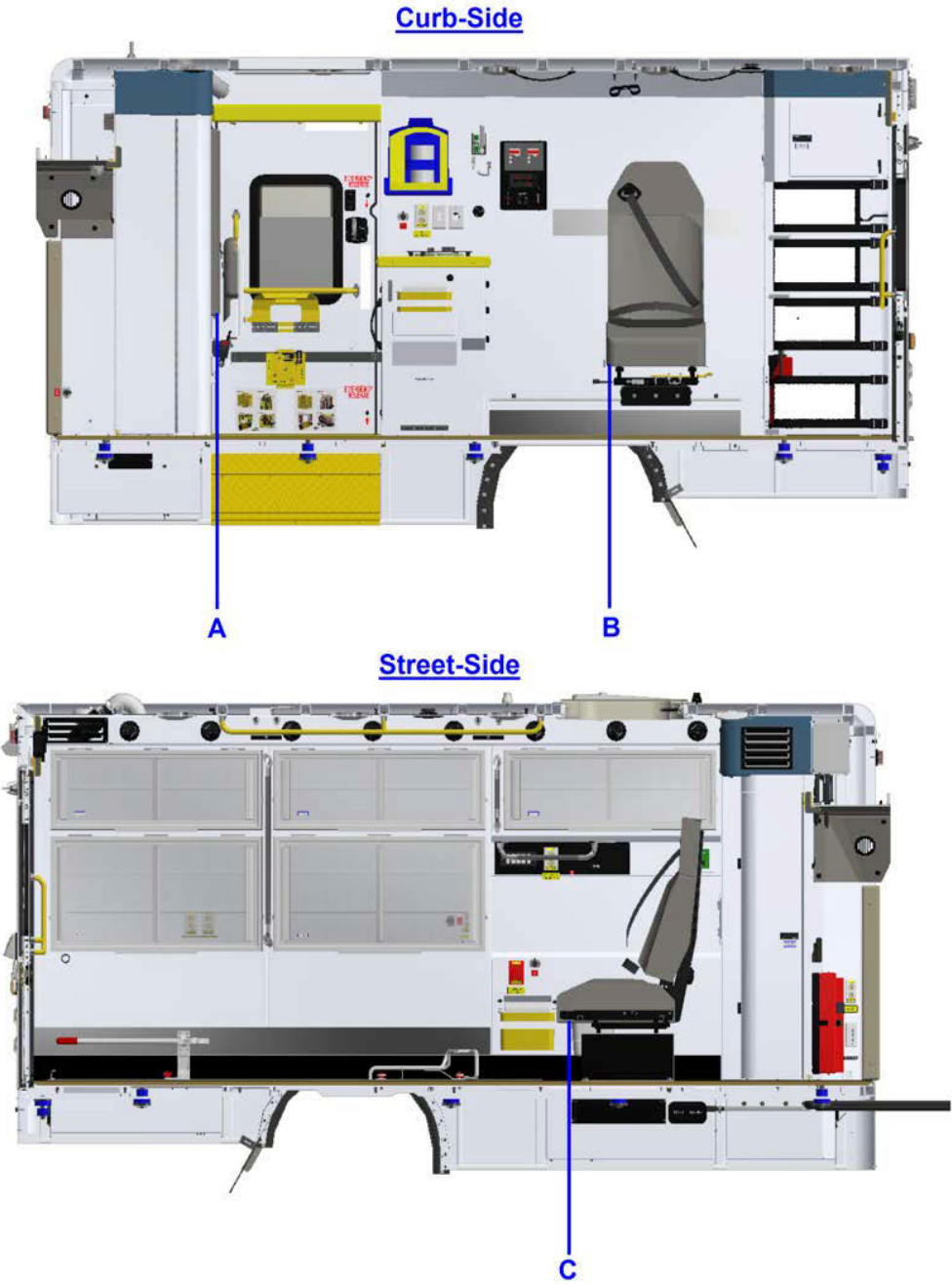


CPR seat (Optional)

- This seat is installed on the street side inside the patient compartment.
- Accommodate a single person and equipped with a three point seat-belt.

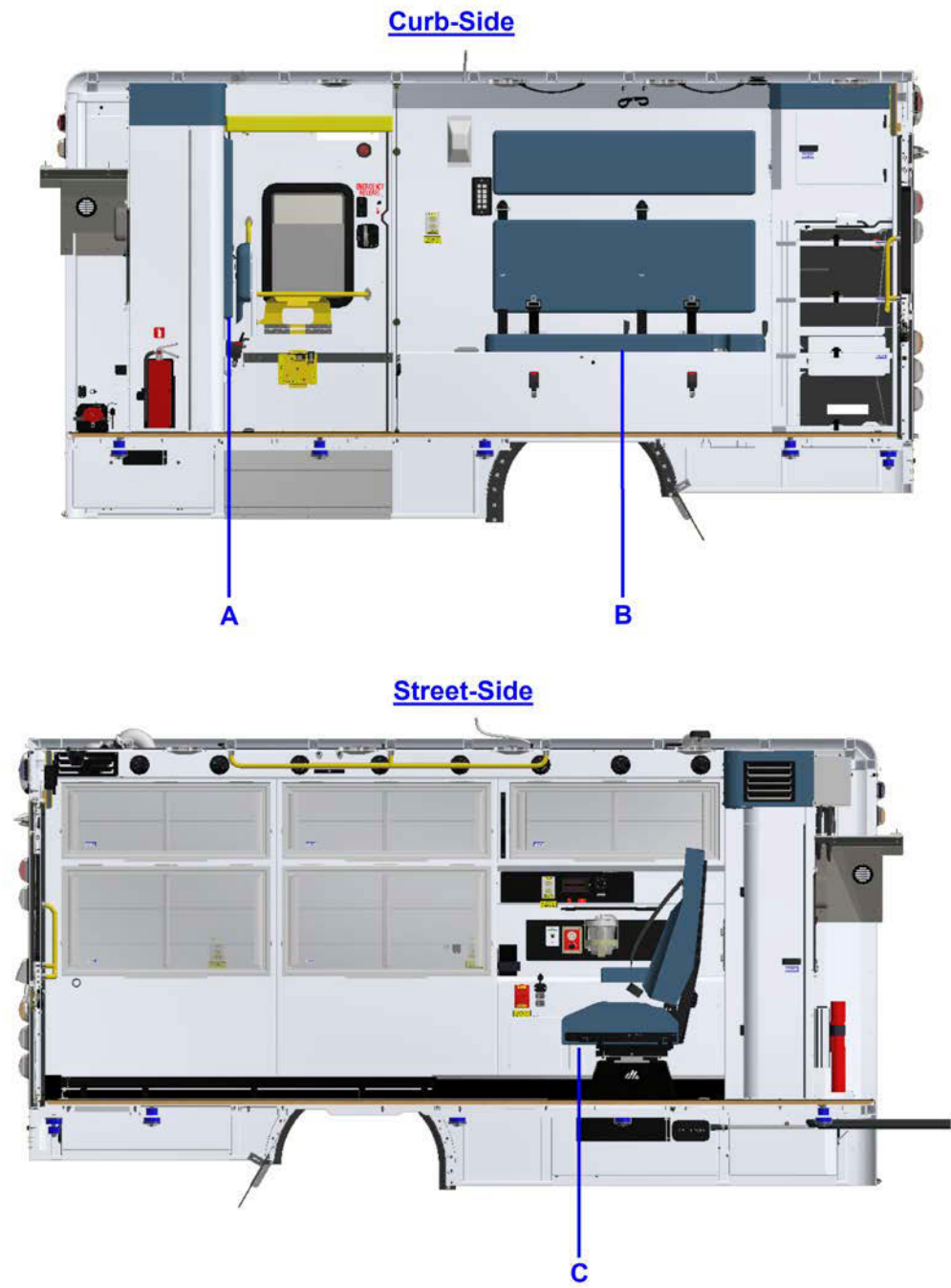
Different seating layouts are available based on specific requirements. Some of the configurations are as follows:

Config.1



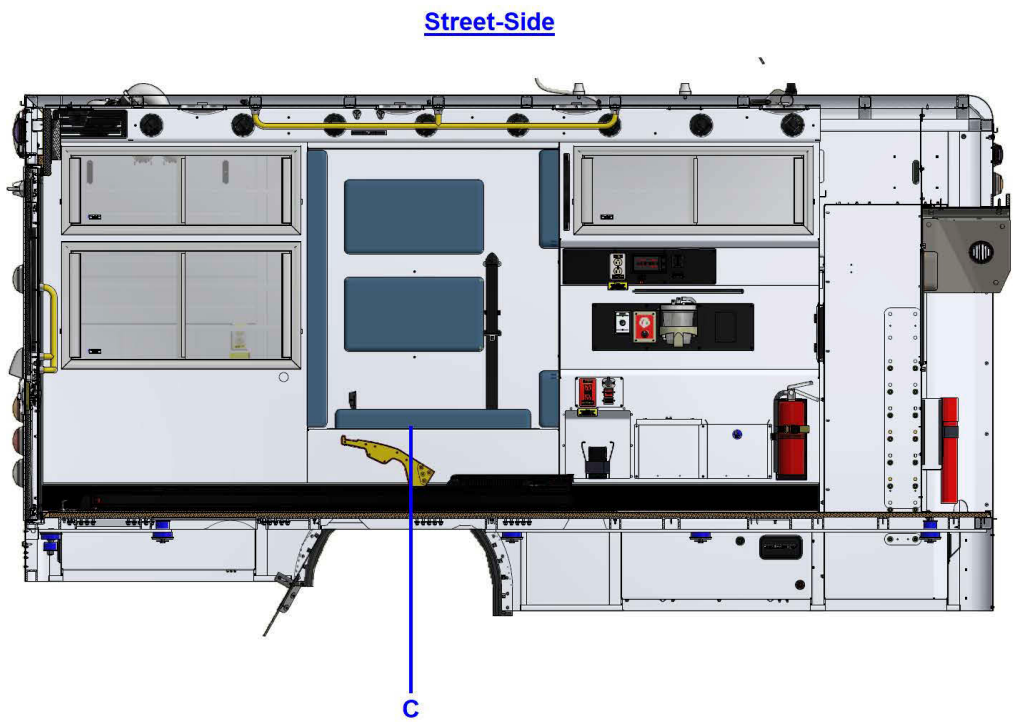
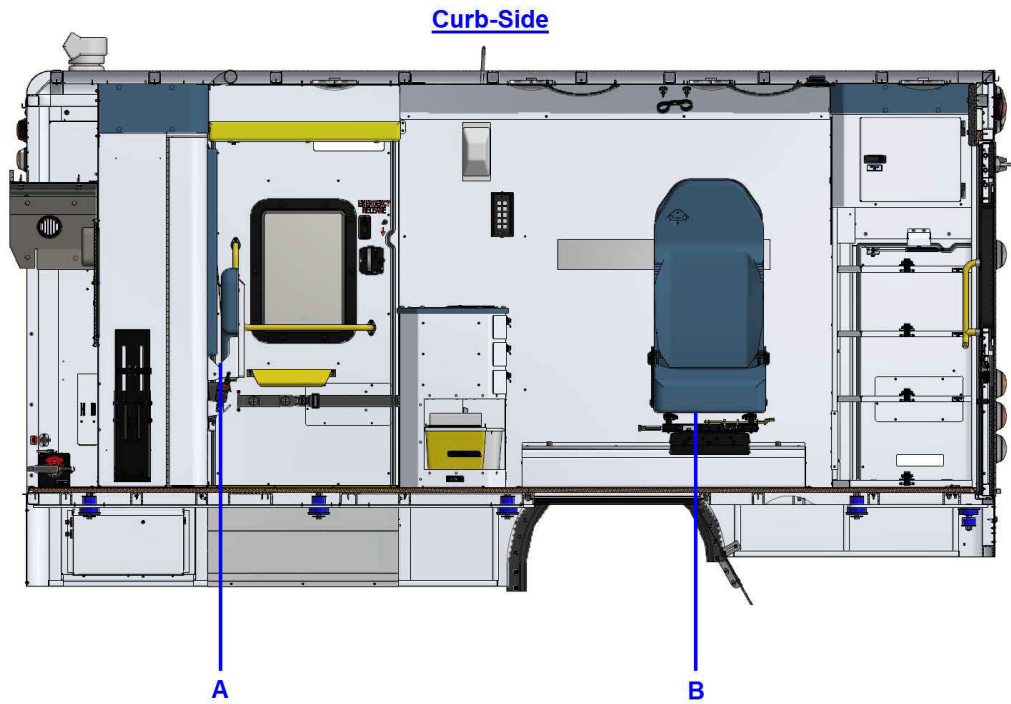
	Name
A	Forward attendant seat
B	Rear attendant seat (High mobility sliding seat)
C	Airway seat

Config.2



	Name
A	Forward attendant seat
B	Rear squad seat
C	Airway seat

Config 3



	Name
A	Forward attendant seat
B	Rear attendant seat (High mobility sliding seat)
C	CPR seat

INTEGRATED SUSPENSION SYSTEM

This section explains how to operate and maintain the third-party suspension systems in your ambulance. It covers the Liquid Spring and MORyde systems, which enhance ride quality, stability, and durability.

LIQUID SPRING SUSPENSION (IF EQUIPPED)

The liquid spring rear axle suspension system helps lower the rear of the vehicle by adjusting the ride heights and set different suspension ride modes.

System Start-Up

The ambulance is equipped with a display and control panel located in the driver's area that controls the operation of the suspension system. In most cases, the suspension system operates automatically and requires no manual intervention.

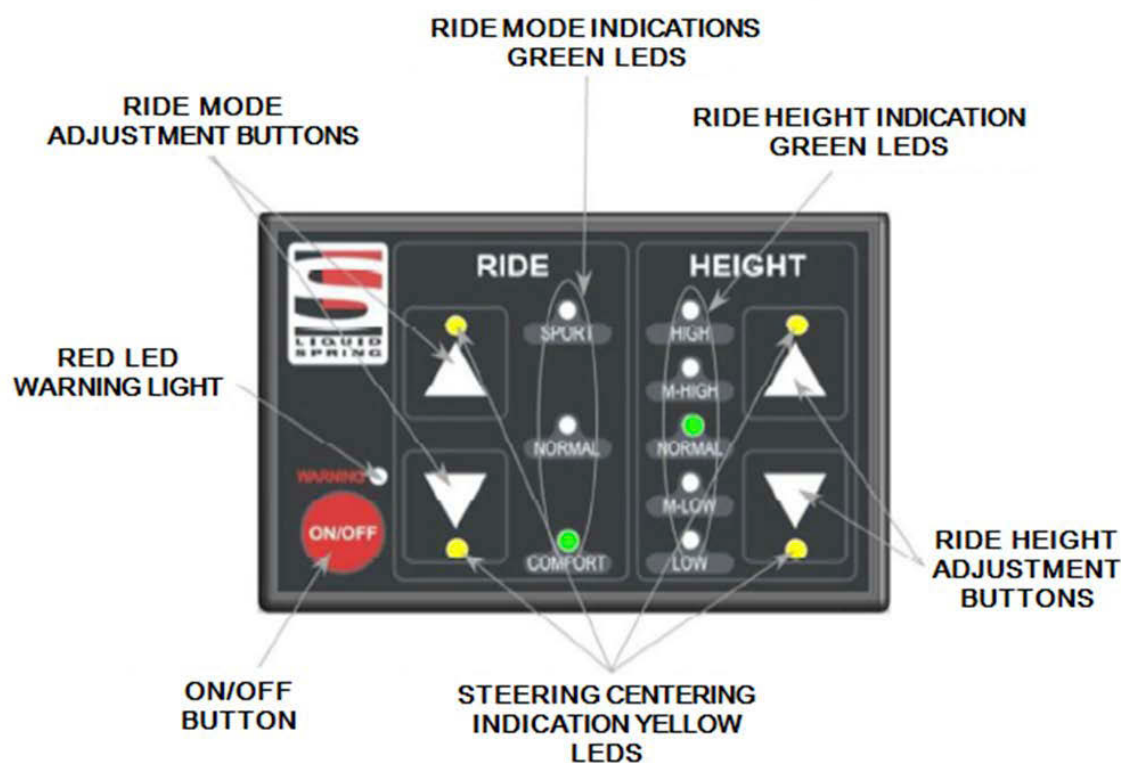
System Initialization

- After starting up, all indicator lights on the control panel will flash ON for 1-2 seconds.
- The Green Ride Height Indication LED and Green Ride Mode Indication LED will then remain illuminated, indicating the current Ride Mode and Ride Height.
- The four Yellow Steering Centering Indication LEDs will light up if the steering wheel is positioned within 10° to 20° of the center (straight-ahead position). These LEDs will turn off if the steering wheel rotation exceeds 20° from the center.

Note: If the vehicle is steered straight ahead and the four yellow LEDs are not illuminated (and the red warning LED is also not illuminated), refer to the ['LiquidSpring Operators Manual'](#) and check section: "Calibrating the Steering Sensor Only" for troubleshooting.

Warning: If the Red LED warning light remains illuminated along with any other indicator lights, have the vehicle inspected by a qualified technician.

System Operation



- Press the ON/OFF button to toggle the suspension system on and off.
- When the suspension is ON, relevant LEDs will illuminate to indicate the system's active status.
- When the suspension is OFF, none of the LEDs will be illuminated.

Note: Keep the suspension system ON at all times unless the vehicle or suspension system requires servicing.

Note: After the vehicle ignition is turned off, the suspension system will remain powered for 1 hour.

RIDE MODE ADJUSTMENT

To change the ride mode, press the UP or DOWN ride mode adjustment arrow buttons to cycle through **SPORT**, **NORMAL**, and **COMFORT** modes. A green indicator light shows the selected mode.

Comfort Mode: Provides a smooth, soft ride. Ideal for standard city and highway driving.

Sport Mode: Increases response to road conditions for greater control. Use when road conditions or personal preference demand a more responsive ride.

Normal Mode: Balances Comfort and Sport modes. Ideal when more control than Comfort but a softer ride than Sport is desired.

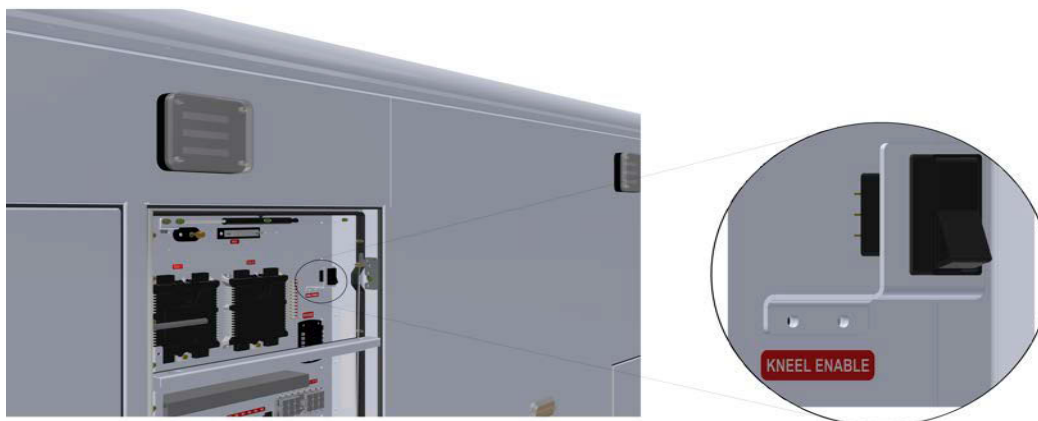
This setting can be changed anytime. Based on road conditions, steering wheel angle, and vehicle speed, the system automatically adjusts to optimize handling and ride smoothness. All three settings provide a similar experience on smooth roads.

SUSPENSION KNEELING WITH REAR DOOR SWITCH

This function is active only if the driver display is set to NORMAL height, the system and ignition are ON, or up to 1 hour after the vehicle ignition is turned OFF.

Characteristics of Operation:

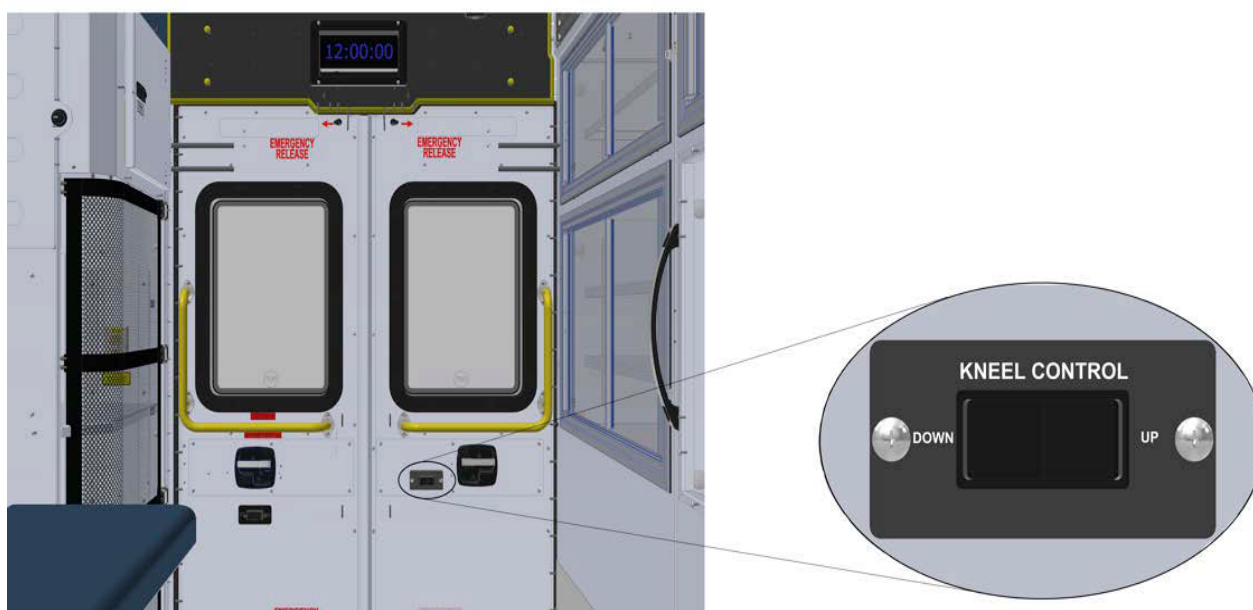
- The kneeling mode is enabled by the switch in the ECC compartment.



Kneel Enable Switch

Note: Always keep the Kneel Enable Switch turned on, except when performing maintenance on the Liquid Spring system

- The operation is influenced by the selected suspension mode. Refer [“Suspension Modes”](#) for detailed operation.
- If the ‘Fully Manual’ suspension mode is selected, use the switch on the rear door 1 to control the kneeling operation.

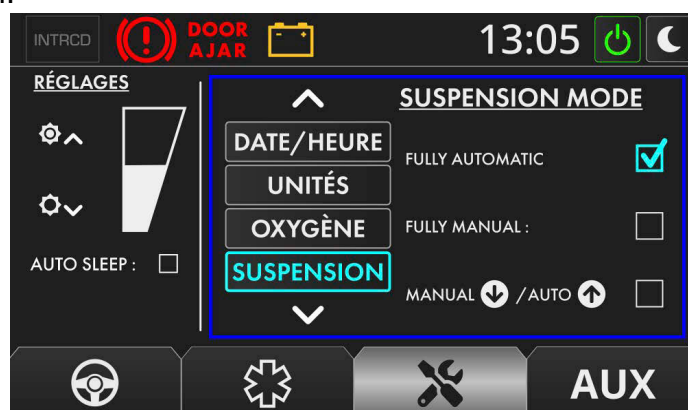


Manual Kneel Control Switch

- The rear door switch can be overridden by the driver display height settings.

Suspension Modes

The kneeling action works based on the suspension mode selected in the FCC or MCC. Navigate to the FCC or MCC touchscreen and access the system tab to control the settings. Refer [“System tab”](#) for more information.



Suspension Modes

- **Fully Automatic:** This mode allows vehicle to automatically adjust the height based on the rear door operation. When activated,

- Open the rear door 1 to lower the rear suspension (kneel down).
- Close either the rear door 1 or 2 to raise the rear suspension (kneel up).

At any point of time, use the UP/DOWN switch on the rear door 1 to manually control the kneeling.

- **Fully Manual:** This mode deactivates the automatic kneel operation. When activated, use the UP/DOWN switch on the rear door 1 to control the kneeling.
- **Manual** / **Auto** : This mode allows partial automatic kneeling. When activated, use the UP/DOWN switch on the rear door 1 to kneel down. The vehicle kneels up as soon as any of the rear door closes.

Note: At any point of time use the driver compartment control panel to manually control the kneeling operation.

RIDE HEIGHT ADJUSTMENT

To adjust ride height, press the UP or DOWN arrow buttons to switch between NORMAL, HIGH (body up), or LOW (body down).

Ride Height Indicators and Operation:

- A solid green LED indicates the selected height.
- A flashing green LED shows that height adjustment is in progress. When the selected height is achieved, the green LED becomes solid.
- Two solid green LEDs indicate a mismatch between the selected and current height, and that no adjustment is in progress.

Height Selection and Vehicle Speed:

- If LOW or HIGH height is selected while the vehicle is moving under 16 km/h or stopped, the suspension adjusts to the corresponding height.
- If LOW or HIGH is selected while traveling above 16 km/h, the suspension stays in NORMAL height. In this case, the NORMAL green LED flashes, and the selected height LED remains solid. If speed drops below 16 km/h within 2 minutes, height adjustment occurs. If not, the suspension remains at NORMAL height, indicated by a solid green LED for NORMAL.

Other Conditions:

- If LOW height is selected and the ignition turns OFF before reaching LOW height, the system continues lowering to LOW height. In LOW height, the system maintains the kneeled position, lowering as needed for up to 1 hour after ignition OFF.
- If HIGH height is selected and the ignition turns OFF before reaching HIGH height, the system stops adjusting height. When in HIGH, the system maintains the current position, lowering as needed, active for 1 hour after ignition OFF.

The door switch kneeling function is disabled when LOW or HIGH height is selected on the control panel before opening the door.

Note: If parked for an extended period with the vehicle or suspension system OFF, suspension ride height may vary with temperature changes. Ambient temperature increases or direct sunlight exposure can cause a rise in ride height, while a drop in temperature may lower it.

MORRYDE RS SUSPENSION SYSTEM (IF EQUIPPED)

The ambulance can be optionally equipped with a MORryde suspension system. Refer [MORryde](#) for more information on the available options

PATIENT LOADING

The ambulance is designed to accommodate a maximum of two patients simultaneously, depending on the selected cot configuration. In a standard unit, the cot can be mounted on the street side of the patient compartment, with additional options to mount the cot in the center or on the curb side. It supports various powered and non-powered cot loading and securing systems. For installation and operation details, refer to the appropriate OEM-supplied cot system manual.

The table below lists the compatible powered and non-powered cot systems for the FleetMax 2.0 unit:

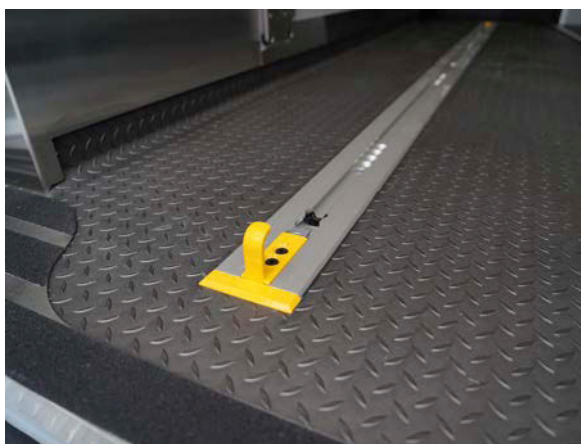
Ferno 175-3/4 single/dual floor mount with safety block	 Diagram showing the Ferno 175-3/4 cot system components, including a long metal bar, a safety block, and the cot frame.
Stryker 6370/6377 single/dual floor mount with dual safety blocks (discontinued)	 Diagram showing the Stryker 6370/6377 cot system components, including a red-handled lever, safety blocks, and the cot frame.
Stryker Performance-LOAD cot fastener with floor plate. Note: Ambulance can be pre-wired for installing the Stryker Performance-LOAD system.	 Diagram showing the Stryker Performance-LOAD cot fastener, a long black and silver device with a red handle.

Stryker Power-LOAD cot fastener with floor plate

Note: Ambulance can be pre-wired for installing the Stryker Power-LOAD system.



Stryker universal floor plate



Ferno PRO F1 universal cot fastener



Ferno iNLINE cot fastner



The following cot options are available for the curb-side configuration equipped with a flip-up squad bench. These configurations are designed to optimize space, enhance functionality, and accommodate various patient care requirements:

Note: Safety hooks are installed according to the cot model selected by the operator to ensure safe operation of the cot system. For detailed operational instructions and safety guidelines, refer to the associated OEM equipment operator's manual.

Stryker MX Pro	
35A Ferno Cot	
35X PROFlexx Ferno Cot	

MAINTENANCE AND CARE PROCEDURES

EXTERIOR CLEANING

- Hand wash using soap and soft bristled brush.
- Use care while removing the stuck-on dirt. Avoid damaging the paint finish and polished surface.
- Use any cleaning materials that are safe to use on commercial vehicles.
- Avoid using a power washer, as the high pressure may damage some components and force water into unwanted and sensitive areas.

INTERIOR CLEANING

Warning: Wear protective gloves and eye wear. Ensure the cleaning area is well-ventilated.

The interior of the ambulance is made of different materials which necessitates usage of different cleaning agents. Follow the below table for the cleaning agents that can be used on various materials:

Cleaning Agents for Different Materials

Material	Description	Cleaning agents
Aluminum	The aluminum parts are powder coated to provide protection against microbial growth.	• A solution of mild soap and warm water. • RM900 cleaner • Glass Cleaner
Fiberglass	Some of the patient compartment cabin parts are made of fiberglass covered in gel coat.	• A solution of mild soap and warm water. • RM900 cleaner • Glass Cleaner
Clear Polycarbonate (Lexan)	Cabin windows and talk-through windows.	• A solution of mild soap and warm water with a soft cloth. Rinse well with clean water and dry thoroughly with a microfiber cloth to reduce water spots. • Isopropyl alcohol with a soft cloth (For grease stains).

Warning: DO NOT use abrasive or highly alkaline cleaners, squeegees, razor blades or any sharp equipments, gasoline, acetone or benzene for cleaning.

Warning: DO NOT clean the Lexan in elevated temperatures.

Flooring

The flooring can be cleaned using a solution of mild soap (PH balanced) and water. Refer the below table for the list of recommended cleaners:

Manufacturer		Neutral Cleaner (Basic Cleaning)	Heavy Duty Cleaner (Periodic Cleaning)	Degreaser	Spray-Buff	Dust Mop Dressing	Disinfectant
Hilway Direct www.hilway.com (877) 356-6748	Cleaners	Neutral Cleaner	Neutral Cleaner (1:10 ratio; rinse with clean water)	Allsafe Stripper (1:10 ratio; rinse with clean water)	Plus Floor Finish (1:5 ratio in spray bottle)	N/A	Disinfectant Cleaner
3M Facilities Care & Cleaning www.3m.com/facility/ (800) 852-9722		3M™ Twist N Fill™ #3 Neutral Cleaner	3M™ Twist N Fill™ #8 General Purpose Cleaner	3M™ Twist N Fill™ #7 Food Service	N/A	3M™ Easy Trap Duster	See Note 1 Below
Hillyard Industries, Inc. www.hillyard.com (800) 365-1555		Top Clean, Super Shine-All	Heavy Duty Floor Cleaner, Citrus Scrub, Super Shine-All	Assurance, Green Select Degreaser	H.R. 2000, Hil-Glo	Super Hil-Tone	Re-Juv-Nal, Vindicator+
Spartan Chemical Company www.spartanchemical.com (800) 537-8990		Damp Mop, Xcelente	Industrial Pathmaker	Industrial Pathmaker	Spraybuff, Super Spraybuff	Dust Mop Dust Cloth Treatment	DMQ Neutral Disinfectant
Dr. Schutz www.schutzna.com (877) 272-4889		Neutral Cleaner	N/A	N/A	N/A	N/A	Disinfectant Cleaner
JFB Hart Coatings, Inc. www.jfbhartcoatings.com (331) 814-3136		N/A	N/A	N/A	N/A	N/A	N/A
Ultra Durable Floors www.udfloors.com (800) 722-2998		UD Neutral Cleaner	UD Neutral Cleaner	UD Degreaser	N/A	N/A	N/A

Note 1	► 3M™ disinfectants are chosen based on the infection risk the floor/area owner is trying to combat. See links below for additional information. 3M™ should be contacted with any questions.
	► Comparison of 3M™ disinfectants: http://multimedia.3m.com/mws/media/973581O/summary-of-3mm-disinfectant-cleaners.pdf
	► 3M™ document for determining the appropriate disinfectant: http://multimedia.3m.com/mws/media/webserver?mwsId=SSSSSuH8c7nZxtUoYt1N8_GevUqe17dHvTSeSSSSSS--&fn=787459.pdf
Note 2	► JFB Hart Coatings recommends the following stripping products to remove their finishes. See links below for additional information. The manufacturers should be contacted with any questions.
	► DoradoStrip 3032 from Eldorado Chemical: http://www.dtep.com/psd/DORADOSTRIP%203032%20TDS.pdf
	► Smart Strip from Dumond Chemicals: https://www.dumondchemicals.com/pdf/tech%20data/Smart_Strip-TDS.pdf
Disclaimer:	The products listed in this chart were tested and approved for use with Lonseal flooring by the manufacturer. All warranties and support for these products lie solely with them. While other manufacturers' products not shown in this chart may be used with Lonseal flooring, that manufacturer should always be contacted to confirm suitability for use with resilient sheet vinyl, as they will be responsible for all warranties and support. Refer to Lonseal's corresponding Maintenance Guides for additional information.

Vinyl Upholstery

The upholsteries are made of duration vinyl. To prevent dirt buildup and potential permanent staining, periodic cleaning of the vinyl upholstery is highly recommended. The cleaning frequency depends on the environmental conditions the material is exposed to.

Cleaning Instructions

- **Common Stains:** Clean using warm, soapy water and rinse with clear water.
- **Moderate Soiling:** Use a medium-bristle brush to loosen soiling materials from the depressions of embossed surfaces.
- **Stubborn Stains:**
 - Use Formula 409® cleaner according to the manufacturer's instructions.
 - If Formula 409® is ineffective, cautiously try full-strength rubbing alcohol or mineral spirits.

Bleach Cleaning

- **Dilution:** Use a 9:1 water-to-bleach ratio (10% bleach solution).
- **Application:** Apply the diluted solution with a sponge. Rinse with cold water multiple times. Wipe dry and repeat if necessary.
- **Regulations:** Follow federal regulations for antiseptic or antimicrobial purposes according to bleach label guidelines.

Note: Indiscriminate use of any solvent or solvent-containing cleaner can damage or discolor vinyl. Always rinse with clear water after using solvents

Note: : Avoid regular or repeated use of detergents for normal cleaning. Rinse with clear water after any cleaning procedure.

Note: Use only the disinfectant cleaners approved by the manufacturer for use on upholsteries. When using a new cleaner, test it in an inconspicuous area first, as cleaning manufacturers may change formulas without notice.

Safety Net/Belt

The safety net can be removed for cleaning, while most of the safety belts are non-removable. Follow these procedure to clean the items:

Cleaning Instruction for Safety Net/Belt

Removable net/belt	1. Unhook the net from the anchor points. 2. Soak the net in a solution of mild detergent (e.g., dish soap) and warm water. 3. Rinse thoroughly with clean water. 4. Hang the net to air dry.
---------------------------	--

Cleaning Instruction for Safety Net/Belt

Non-removable net/belt	Scrub the area with a damp cloth.
-------------------------------	-----------------------------------

Warning: **DO NOT** use solvents or spray cleaners.

Warning: **DO NOT** dry with heat

Cabin Attendant Seats

Cleaning Instruction for Cabin Attendant Seats

Type of soiling	Material Needed	Procedure
Light soiling	• Warm water, liquid cleaner (e.g., Formula 409® Cleaner) • Degreaser or an equivalent cleaner) • Sponge or soft cloth.	5. Apply the liquid cleaner to a sponge or soft cloth. 6. Wipe the vinyl upholstery gently. 7. Rinse with clear water using a damp cloth.
Heavy Soiling	• Soft white cloth • Lighter fluid (naphtha) • Water-dampened cloth.	1. Dampen a soft white cloth with lighter fluid (naphtha). 2. Rub the soiled area gently. 3. Rinse thoroughly with a water-dampened cloth.
Bodily Fluid Stains	• Soft white cloth • Household bleach (sodium hypochlorite), • Water	1. Prepare a solution of 10% bleach and 90% water. 2. Dampen a soft white cloth with the bleach solution. 3. Rub the stained area gently. 4. Rinse thoroughly with a water-dampened cloth to remove any bleach residue.

Oxygen Outlets

The patient cabin oxygen outlets are factory cleaned for oxygen service. Follow these guidelines to maintain and clean the outlets properly:

Cleaning Exposed Surfaces

1. Use a mild detergent solution to clean exposed surfaces.
2. Wipe with a disinfectant commonly used in patient rooms. Ensure the disinfectant is compatible with plastics, anodized aluminum, and die-cast zinc.
3. Sparingly lubricate elastomeric seals with a silicone lubricant that is oxygen compatible

Warning: **DO NOT USE OIL** for lubrication.

SEAT BELT INSPECTION

The ambulance is equipped with standard 2-point, 3-point and child seat belts, all of which require regular inspection to maintain their integrity and performance. Follow the below inspection procedure at regular intervals to ensure the serviceability of safety belts:

Seat Belt Inspection Schedule

Visual Inspection	• Check for fraying, cuts, or tears in the belt material. • Look for signs of wear or damage on the buckle and latch. • Ensure the belt is not twisted or improperly routed.
Latch Operation	• Ensure the latch engages and releases smoothly.
Retractor Functionality	• Check that the belt retracts smoothly without sticking.
Mounting and Anchorage Points	• Inspect the mounting points for rust, damage, or looseness.
Webbing Condition	• Look for signs of fading or discoloration.
Padding (For Child Harnesses)	• Check for adequate padding and comfort features.
Tether and Anchor Points (For Child Harness)	• Inspect tether and anchor points for secure attachment • Buckle Integrity.
Buckle Integrity	• Examine the buckle of the child harness for any visible signs of damage, including cracks, fractures, or breakage

Corrective Actions

- We recommend that all the seat belts that are found defective or with a noted improper operation must be replaced.
- Replace all seat belt assemblies in vehicles involved in a crash unless the crash is minor and an authorized dealer confirms that the belts show no damage and continue to operate smoothly.
- Inspect and replace any seat belt assemblies that were not in use during a crash if improper operation is noted.

Note: Any abnormalities found during the inspection must be reported to Crestline immediately.

LONG-TERM AMBULANCE STORAGE

If an ambulance is not going to be used for an extended period, keep it plugged into a 120-volt outlet via Shoreline to maintain the vehicle batteries in peak condition. Alternatively, disconnect and remove the batteries for safe storage. This will prevent discharge and freezing in cold temperatures.