



# **xRC-3363**

## Hybrid Rescue Charger

### USERS GUIDE

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# General Safety Guidelines

 **IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS**

**IT IS OF UTMOST IMPORTANCE THAT BEFORE USING YOUR xRC-3363, YOU READ THIS MANUAL AND FOLLOW THE SAFETY AND OPERATING INSTRUCTIONS EXACTLY.**

**⚠ DANGER**



**Hazardous voltage.**  
Do not remove protective covers.  
Failure to follow this instruction may result in electric shock, personal injury, or death.

Circuit boards, test points, and output voltages also may be floating above or below chassis ground.

**NOTICE**

This xRC-3363 is designed for indoor use only. Do not operate the xRC-3363 outdoors. Operation of the xRC-3363 in an outdoor environment can result in equipment damage.

## Manual Conventions

Symbol	Description
	The safety symbol indicates instructions for avoiding hazardous conditions and personal injury.
	The safety symbol with the words <b>CAUTION</b> , <b>WARNING</b> , or <b>DANGER</b> indicates instructions for avoiding hazardous conditions and personal injury.
	The wrench symbol indicates procedural notes and helpful information.
	These symbols indicate which arrow keys on the keypad to press for a given function.
<b>Bold Letters</b>	The text for screen options are in <b>Bold</b> letters.

## 1. Maintenance

- **SAVE THESE INSTRUCTIONS** - This manual contains important instructions that shall be followed during installation, operation and maintenance of the unit.

**⚠ WARNING**



**Risk of explosion.**  
This device contains internal arcing and sparking parts which should not be exposed to flammable vapors. This device should be located at least 18 inches (457mm) above grade. Failure to follow this instruction may result in personal injury or death.

- Periodic inspection and care are highly recommended, especially if the xRC-3363 is operating in a harsh environment.
- Inspect for signs of overheating, rust, paint deterioration and general condition of the unit. If corrective measures should be taken, contact Midtronics. [Contact information on back cover.](#) Removal of dust, dirt and debris from the external enclosure surfaces is encouraged and may be performed while the unit is in operation.

 **IMPORTANT:** No user-serviceable parts are inside the xRC-3363. No unauthorized personnel should ever remove the cover.

- Ensure that the AC power line ground is connected properly to the xRC-3363 input connector or chassis. Similarly, other power ground lines including those to application and maintenance equipment must be grounded properly for both personnel and equipment safety.
- In normal operation, the operator does not have access to hazardous voltages within the chassis. However, depending on the user's application configuration, HIGH VOLTAGES HAZARDOUS TO HUMAN SAFETY may be normally generated on the output terminals. The customer/user must ensure that the output power lines are labeled properly as to the safety hazards and that any inadvertent contact with hazardous voltages is eliminated.
- This xRC-3363 is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the xRC-3363 by a person responsible for their safety.

<b>⚠ DANGER</b>	
<b>Risk of explosive gases.</b>	
Batteries may generate explosive gases. To reduce risk, follow these safety instructions and those published by the battery manufacturer and OEM. Failure to follow these instructions may result in personal injury or death.	

- 1.1 To reduce risk of battery explosion, follow these safety instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of a battery. Review cautionary marking on these products and on the engine, and on the vehicle or equipment containing the battery.

<b>⚠ DANGER</b>	
	<b>Charging a non-rechargeable battery may cause the battery to burst.</b>
Only charge batteries for which xRC-3363 has been designed and is intended for use. Failure to follow these instructions may result in personal injury or death	

If you are uncertain as to the type of battery you are attempting to charge, or the correct procedure for checking the battery's state of charge, contact the seller or battery manufacturer.

- 1.2 Use of an attachment not recommended or sold by the xRC-3363 manufacturer may result in a risk of fire, electric shock, or injury to persons.
- 1.3 To reduce risk of damage to the electric plug and cord, pull by the plug rather than by the cord when disconnecting the xRC-3363.
- 1.4 Do not operate the xRC-3363 if it has received a sharp blow, been dropped or otherwise damaged in any way; contact Midtronics (see contact information on back cover).
- 1.5 Do not disassemble the xRC-3363; when repair is required contact nearest Midtronics regional office ([see back cover of this manual for locations and contact information](#)). Incorrect reassembly may result in a risk of electric shock or fire.
- 1.6 To reduce risk of electric shock, unplug the xRC-3363 from the AC outlet before attempting any maintenance or cleaning. Turning off the controls will not reduce this risk.
- 1.7 Connect and disconnect the battery leads only when directed to do so by the xRC-3363.
- 1.8 Do not overcharge the battery (See Section 3).
- 1.9 Charge the battery in a dry, well-ventilated area.
- 1.10 Never place articles on or around the xRC-3363, or locate the xRC-3363 in a way that will restrict the flow of cooling air through the cabinet.
- 1.11 An extension cord should not be used with xRC-3363.
- 1.12 Have a damaged cord or plug replaced immediately.

**NOTICE**

The xRC-3363 has not been designed for exposure to rain or snow. Operate the xRC-3363 only indoors in a clean environment. Failure to follow these instructions may result in equipment damage.

**2. Personal Precautions****⚠ WARNING**

**Only qualified technicians may use this equipment. The required qualifications vary by region. Always observe local laws and legislative directives. Failure to follow this instruction may result in serious personal injury or death.**

- 2.1 Have plenty of fresh water and soap nearby in case battery electrolyte contacts skin, clothing or eyes.
- 2.2 Always wear all personal protective equipment (PPE) defined by OEM when working with batteries serviced by xRC-3363.
- 2.3 If battery electrolyte contacts skin or clothing, wash immediately with soap and water. If electrolyte enters the eye, immediately flush with cold running water for at least 10 minutes, and seek medical attention.
- 2.4 NEVER smoke or allow a spark or flame in vicinity of a battery or engine.
- 2.5 Before working with a battery, remove personal metal items such as rings, bracelets, necklaces, watches, etc. A battery can produce a short circuit current high enough to weld such items causing a severe burns.
- 2.6 The xRC-3363 is not intended to supply power to a low-voltage electrical system other than applications using rechargeable batteries.
- 2.7 **NEVER** charge a battery outside of recommended operating temperature range as defined by OEM. Allow battery to come within operating temperature range xRC-3363 (Pg.7) and battery operating range prior to charging.

**3. Grounding & Power Cord Connections**

- 3.1 The xRC-3363 must be grounded to reduce risk of electric shock. The xRC-3363 is equipped with an electric cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**⚠ DANGER**

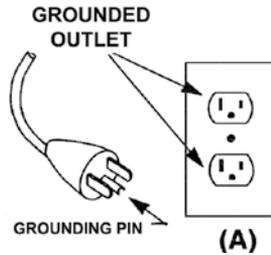
**Hazardous voltage.  
An improper connection can result in electric shock**

To avoid electrical shock or burn, never alter the xRC-3363's original AC cord and plug. Disconnect plug from outlet when xRC-3363 is idle. Failure to follow these instructions may result in personal injury or death.

**IF THE PLUG DOES NOT FIT THE OUTLET, HAVE A PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.**

3.2 This xRC-3363 is for use on a nominal 120 volts or 240 volts circuit.

The 120V grounding plug looks like the plug illustrated in *Figure A*.



3.3 Use of an extension cord could result in a risk of fire and electric shock.

3.4 The plugs and receptacles have dedicated grounding terminals and must be mated with plugs and receptacles having matching grounding terminals.

#### 4. xRC-3363 Location



**IMPORTANT:** The xRC-3363 is designed for indoor use only!

It is the responsibility of the operator to provide a controlled environment for the equipment. Work tents are a common method of protecting equipment in adverse conditions.

The xRC-3363 depends upon the surrounding air for cooling. The free flow of air is important as is the air temperature. The xRC-3363 must be mounted so that air can freely circulate all around it.

- 4.1 Do not place combustible materials on or near the xRC-3363 or mount the xRC-3363 closer than 3 inches from any adjacent wall. The xRC-3363 must never be mounted next to or above heat generating equipment.
- 4.2 Locate the xRC-3363 as far away from the battery as the cables permit.
- 4.3 Never place the xRC-3363 directly above the battery being charged; gases from the battery will corrode and damage the xRC-3363.
- 4.4 Only operate the xRC-3363 in a well-ventilated area that is free of dangerous vapors.
- 4.5 Store the xRC-3363 in safe, dry location.
- 4.6 Do not operate the xRC-3363 in high relative humidity conditions (85% non-condensing maximum).
- 4.7 When using the xRC-3363, follow all regulations for the locality in which the equipment is used.

# Product Specifications

## Power

Input: 100 – 240 , 50/60 Hz; 12A max.  
Output: 336 V , 3A

## Charge Cables

- 2m

## Power Cord

Accepts C19 locking connector for region-specific power cables:

- United States: EMA 5-15 termination, rated at 15A/125V UL CSA
- EU: EMA 5-15 termination, rated at 16A/250V UL CSA
- UK: EMA 5-15 termination, rated at 13A/250V UL CSA

## Application

- Automotive
- Heavy-Duty

## Battery Chemistry Compatibility

- Lithium ion
- Nickel Metal Hydride

## Humidity

- 15% to 85% R.H., non-condensing

## Dimensions

(without cables)

- **WEIGHT:16,78 KG (37 LBS)**
- **44 CM (L) X 43,5 CM (W) X 23 CM (H)**

## Temperature

- Operating temperature range: 0°C to +50°C (32°F to +140°F)
- Storage temperature range: -10°C to + 85°C (14°F to 185°F)

## Certifications

- CE
- RoHS
- FCC
- UL

## Connectivity

- Bluetooth 2.0
- WiFi
- USB 2.0 connection
- CAN bus interface

## User Interface

- Advanced navigation and charge applications
- 5" Touch Screen
- 5 button directional input pad

# 1 – Introduction & Overview

## Safety Precautions

For safe, efficient, and accurate charging, review the safety and operating instructions in this manual before using the xRC-3363. In addition, follow all manufacturers' instructions and SAE instructions. Always use the necessary safety precautions when working with batteries to prevent severe injury or death. Follow all OEM instructions and SAE safety recommendations, as well as the following precautions:

<div style="background-color: red; color: white; padding: 5px; text-align: center;"><b>⚠ DANGER</b></div> <div style="display: flex; align-items: center;">  <div> <p><b>Risk of explosive gases. Never smoke or allow a spark or flame in the vicinity of a battery.</b></p> <p>Batteries can produce a highly explosive mix of gases, even when the battery is not in operation. Always work in a well-ventilated area. Failure to follow these instructions may result in personal injury or death.</p> </div> </div>	<div style="background-color: yellow; color: black; padding: 5px; text-align: center;"><b>⚠ CAUTION</b></div> <div> <p><b>Wash hands after handling.</b></p> <p>REQUIRED BY CALIFORNIA PROP. 65: Battery posts, terminals, and related accessories may contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.</p> </div>
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- Battery electrolyte can be hazardous. Refer to Material Safety Data Sheet for precautions and safety procedure for the type of battery being serviced
- Keep hair, hands, and clothing as well as the xRC-3363 cords and cables away from moving engine parts.
- Before working with a battery, remove personal metal items such as rings, bracelets, necklaces, watches, etc. A battery can produce a short circuit current high enough to weld such items causing a severe burn.
- Use caution when working with metallic tools to prevent sparks or short circuits.
- Never lean over a battery when charging.
- Never operate xRC-3363 outside of defined operating temperature range (pg. 7).
- Never charge a battery outside of OEM specified temperature range.

## Connecting To AC Power

Plug the xRC-3363 into a dedicated, grounded nominal 15-amp or higher AC outlet.

## Front View



- |                       |                                  |
|-----------------------|----------------------------------|
| ① Touchscreen Display | ③ Screen Power Button            |
| ② USB Port            | ④ 5 Button Directional Input Pad |

*Note: It is normal for the xRC-3363 fans to continue running after turning screen off*

## Rear View



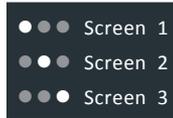
- |                              |                              |
|------------------------------|------------------------------|
| ① Grounding Cable Connection | ③ Fuse Door Cover            |
| ② Power Cord Socket          | ④ HV Common Cable Connection |



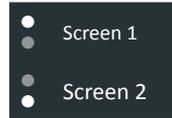
## Main Menu

### Additional Screens

The dots at the bottom or side of a menu or results screen indicate additional screens are available. Use your finger to swipe horizontally left, right, up or down across the Controller screen to view all of the results.



**Swipe  
Horizontally**



**Swipe  
Vertically**

### Initial Setup

- Upon initial power-up, the Language Settings screen is displayed. Tap **Next** to continue.

System Language	Select the Controller default language displayed on the screen.
Test Result Language	Select the Controller default language for all displayed tests and test results.

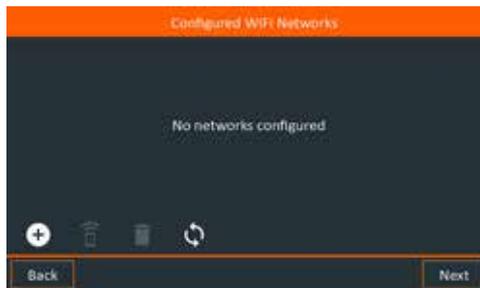
- The Date and Time settings are displayed. once settings are adjusted for your region, tap **Next** to continue.

Select Time Format:	12-hour or 24-hour format
Select Date Format:	DD/MM/YYYY, MM/DD/YYYY, or YYYY/MM/DD
Select Time Zone:	Time zone offset from Greenwich Mean Time
Set Date:	Set the current date
Set Time:	Set the current time in the selected time zone

- The Test Settings are displayed. Tap **Next** to continue after making any adjustments.

Temperature Units	Celsius or Fahrenheit
Decimal Separator	00.00 (dot) or 00,00 (comma)

- The Configured WiFi Networks screen is displayed. Tap **Next** to continue after making any adjustments.



Tap on the WiFi icon to display a list of detected and configured WiFi networks.



### Adding A Network

- Tap to add a WiFi network.  
A list of detected wireless networks is displayed with next to the selected network.
5. • Tap to access the network Security and IP Settings.

Security	None
	WEP
	WPA/WPA2 PSK
IP Address	DHCP
	Static

- Tap to configure the selected network.
- Once the network has been successfully configured, tap to return to the list of available configured networks. A indicates the selected network.

### Deleting A Network

- Tap a displayed network.
- Tap to delete the network and tap Yes to confirm.

## 2 – Rescue Charge



Use this function to perform a rescue charge on the battery pack.

**⚠ DANGER**

**Hazardous voltage.**  
**An improper connection can result in electric shock**

To avoid electrical shock or burn, never alter the xRC-3363's original AC cord and plug. Disconnect plug from outlet when the xRC is idle. Failure to follow these instructions may result in personal injury or death.

**⚠ WARNING**

**High Voltage Present.**

Make sure to properly prepare the battery pack by following all required OEM procedures. Failure to follow these instructions may result in personal injury or death.

**⚠ WARNING**

**High Voltage Present.**

Before charging, inspect all cables to be used for damage to insure that all are in good working order. Damage may include but is not limited to: breakage, swelling, discoloration, corrosion or softening. Do not operate xRC-3363 with damaged cables. Failure to follow these instructions may result in personal injury or death.

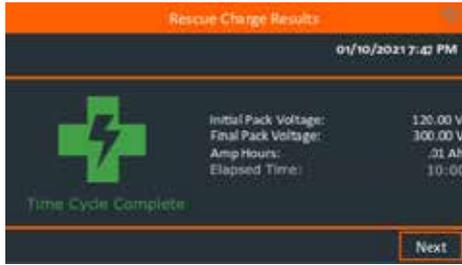
### Procedure

1. At the Main Menu, select **Rescue Charge**.
2. Follow the on screen instructions to connect to battery and complete rescue charge. xRC-3363 will direct you to correct cable set based on vehicle input. The xRC begins the rescue charge process once the initialization process has been successfully completed.



Field	Description
Initial Pack Voltage	The voltage of the pack when the rescue charge was started
Target Pack Voltage	Preprogrammed finishing pack voltage based on pack type
Final Pack Voltage	The voltage of the pack when the rescue charge was completed
Amp Hours	The total number of Amp Hours accepted by the pack
Charge Duration	The amount of time that the rescue charge was operational. The format is HH:MM:SS

The results are displayed on the xRC screen.



**Time Cycle Complete:** The rescue charge ran to completion without any errors.



**Target Voltage Achieved:** The rescue charge ran to completion without any errors.



**Stopped Early:** The rescue charge was stopped by the user before running to completion.



**Error Detected:** There was a fault encountered during the rescue charge. Tap ? for additional error code details.

Tap **Send Results** to email or print the Rescue Charge Results.

3. Follow the on-screen directions to disconnect the cables.

## 3 – History



History shows tests that have been performed on the tool. Records are listed in order of occurrence with the most-recent record on the top of the list.

At the Main Menu, tap **History**. By default the Tool History screen is displayed.



### Tool History



Use Tool History to view test history. Selecting a record will show the full test results.

Tap > to view individual test details.

Tap  $\Sigma$  to view Total By Test Decision, Total By Test Type, and Total By Date And Location.

Tap **Done** to return to the Tool History screen.

### Date History



Date History shows results by date tested.

Tap  to select a date.

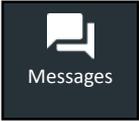
### USB Data Upload



Export history

1. Connect a USB drive to the front panel of the xRC.
2. Select the type of data to export.
3. Tap Confirm once the data has been exported.
4. Remove the USB drive.

# 4 – Messages



The Messages function displays alerts and notifications for upcoming tests and activities. This includes scheduled testing as well as tool software updates and maintenance opportunities.



Mark Read Or Unread



Delete Notification



Perform Message Action

Tap ◀ to return to the previous screen or 🏠 to return to the Main Menu.

## Accessing Messages



A number is displayed next to the Messages icon when the analyzer has received any critical messages. The number does not include non-critical Notifications.

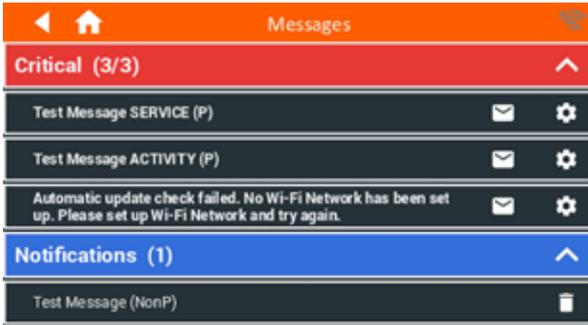


Unread Critical Messages



Read Critical Messages

1. Tap **Messages** on the Main Menu screen.



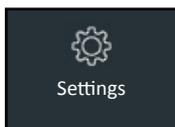
2. Tap to read a message.  
Tap to perform the message action item.  
Tap to delete a message.
3. Tap ^ to collapse a list of messages or v to expand the list.

## Message Types

**Critical:** An important action cannot be performed and may require user input in order to complete action.

**Notifications:** Indicates an action has been performed or data has been sent.

## 5 – Settings



Use the Setup options to setup and adjust WiFi, user information, default language, display settings, shop information, user management, connected accessories, and device information.

Tap ◀ to return to the previous screen or 🏠 to return to the Main Menu.

### WiFi



Use WiFi to view, add, and delete wireless networks.

Tap on the WiFi icon to display a list of detected and configured WiFi networks.



### Adding A Network

1. Tap + to add a WiFi network.

A list of detected wireless networks is displayed with ● next to the selected network.

2. Tap > to access the network Security and IP Settings.

Security	None
	WEP
	WPA/WPA2 PSK
IP Address	DHCP
	Static

3. Tap → to configure the selected network.
4. Once the network has been successfully configured, tap → to return to the list of available configured networks. A ● indicates the selected network.

### Deleting A Network

1. Tap a displayed network.
2. Tap 🗑️ to delete the network and tap Yes to confirm.

### Language Settings



Use the Language & Input function to select the default system language used by the tool. User defaults also include Test Results, Email, and Print languages.

#### System Language

Select the charger default standard language.

#### Test Result Language

Select the default language for the charger to use for all displayed tests and results.

#### Email Language

Select the default language for the charger to use for all messages, tests and results sent via email.

#### Print Language

Select the default language for the charger to use for connected printers.

### Display Settings



Adjust the charger display including the Brightness, Sleep Time, and Dim Time. Auto Brightness can also be turned on and off.

#### Brightness

Adjust the display Brightness by tapping and holding the slider, then moving it right or left to make the screen brighter or darker.

#### Test Settings

1. Tap to access the test setting defaults. Tap the boxes or icons to change the values.

#### Decimal Separator

Default number display using commas or periods separators.

Decimal Separator

1. Enable Power to Serial Bus. Check this box to enable Bar Code Scanner when Barcode Scanner is connected to unit.
2. Tap to return to the Main Menu.

#### Date/Time Settings

1. Tap to access the Date/Time setting defaults.

Select Time Format	<input type="text" value="12 Hour"/>	Select Date Format	<input type="text" value="10/18/2016"/>
Select Date Format	<input type="text" value="10/18/2016"/>	Select Time Zone	<input type="text" value="EST"/>
Set Date		Set Time	

**Select Time Format**  
12 or 24 Hour Format

**Select Date Format**  
Month/Day/Year, Day/Month/Year, or Year/Day/Month

**Select Time Zone**

Time zone in which the analyzer will be operated.

**Set Date**

Tap ▲ or ▼ to enter the month, day, and year. Tap Set to save the date or Cancel to exit without saving.

**Set Time**

Tap ▲ or ▼ to enter the hours, minutes, and AM/PM. Tap Set to save the date or Cancel to exit without saving.



2. Tap  to return to the Main Menu.

**Version Information**

Use Version Information to display data for the unit.



Factory Reset



Check For Updates



Legal Information

Serial Number	0987654321
Configuration Version	192-411340-A00-0039
Data Version	192-481341-A01-005
Controller Version	192-001339-A00-0039
Diagnostic Device Version	192-211379A-25
CVG-2 Device Version	No Device Configured
OS Version	dca8000-eng 4.4.2 DEVR10_06

### **Factory Reset**

Use this function to return the unit to the original, as built configuration. All test history and test setting preferences will be reset.

**IMPORTANT: All previous modifications to the original settings will be overwritten.**

### **Legal Information**

Displays software attribution information via the Midtronics website. The analyzer must be connected to the Internet.

### **Check for Updates**

Use this function to check via the internet connection for any updates to the unit software.

## 6 – Error Codes



The following errors are detectable at various times within the rescue charge session. When an error is detected, the charge session is safely aborted and the user is prompted with a dialog with the error code and message.

Error Description	Error Code	Error Message
Fuse Door Open	1	Fuse door open. Remove power and close the fuse door.
High Voltage Cable Fuse Door Open	2	High voltage cable fuse door open. Remove power and close the fuse door.
High Voltage Cable Not Connected	3	High voltage cable not connected properly. Check cable connections.
Battery High Voltage	6	Battery voltage exceeds the maximum allowed voltage. Contact customer service for additional assistance.
Battery Low Voltage	7	Battery voltage below the minimum threshold required for use of this charger. Contact the Technical Assistance Center if necessary to obtain Prior Approval for a replacement battery.
Excessive Charging Current	12	Charge stopped due to excessive battery charging current. Contact customer service for additional assistance.
12V Fuse Fault	13	Detected 12V fuse open. Remove power and check 12V fuse. Refer to manual for required fuse. Contact customer service for additional assistance
High Voltage Fuse Fault	14	Detected high voltage fuse open. Remove power and check high voltage fuse. Refer to manual for required fuse. Contact customer service for additional assistance.
Grounding Cable Not Connected	15	Grounding green cable not connected.
Internal Temperature Too High	19	Charger overtemperature. Verify nothing is blocking the sides of the unit and the fan is rotating. Contact customer service if issue persist.
Internal EEPROM Fault	21	Internal Error. Contact customer service.
Internal Calibration Fault	22	Internal Error. Contact customer service.
Battery Polarity Fault	25	Battery voltage polarity incorrect. Check battery cable voltage connection leads.
Cable Error	26	The cables are not properly connected. Please verify all low and high voltage connections and try again. Contact customer service for additional assistance.
Pack Already Charged	29	Battery pack already charged.
High Voltage Cable Disconnected During Charging	30	HV cable disconnected detected, check cables. No pack failure detected. If error persists retry, contact Midtronics customer support

## **PATENTS**

This product is made by Midtronics, Inc., and is protected by one or more U.S. and foreign patents. For specific patent information, contact Midtronics, Inc. at +1 630 323-2800.

## **LIMITED WARRANTY**

Midtronics products are warranted to be free of defects in materials and workmanship for a period of one (1) year from date of purchase. Midtronics will, at our option, repair or replace the unit with a re-manufactured unit. This limited warranty applies only to Midtronics products, and does not cover any other equipment, static damage, water damage, overvoltage damage, dropping the unit, or damage resulting from extraneous causes including owner misuse. Midtronics is not liable for any incidental or consequential damages for breach of this warranty. The warranty is void if owner attempts to disassemble the unit or to modify the cable assembly.

## **SERVICE**

To obtain service, contact the Midtronics office in your region (see address block below). Have your model number and serial numbers at hand. This first step is critical as Midtronics will troubleshoot the problem(s) over the phone, and many problem(s) are resolved during this step. If the problem cannot be resolved, the Customer Service Agent will issue a Return Material Authorization (RMA) number and provide instructions on where to ship your equipment. The RMA number becomes your tracking number when communicating with Midtronics. The final step is to pack the equipment to avoid damage in transit and return the equipment freight prepaid (you pay), to the attention of the RMA number and the address provided by the Customer Service Agent.

Midtronics or it's designee will repair and return the unit using the same shipping service level as received. If it is determined that the failure was caused by misuse, alteration, accident or abnormal condition of operation or handling, purchaser will be billed for the repaired product and it will be returned freight prepaid with the shipping & handling charges added to the invoice. Midtronics' products beyond the warranty period are subject to the repair charges in place at that time. Out-of-warranty repairs carry a 6-month warranty.





**Corporate Headquarters**

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Phone: 1.630.323.2800

Canadian Inquiries

TollFree: +1 1866 592 8052

**Asia/Pacific (excluding China)**

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