EB POWER

AC KIT INSTALL GUIDE

2008.5 - 2021+ Club Car Precedent

www.ecobattery.com

BEFORE YOU BEGIN



Your AC Motor and Controller **must be registered within 60 days of purchase** to activate the 2 year limited warranty. Products not registered within 60 days of purchase will carry a 1 year limited warranty.

Tip: The serial numbers on the components are easier to read when not installed.

www.ecobattery.com/register

INTRODUCTION

This guide covers the installation process for Club Car Precedent carts with the controller mounted at the rear of the battery bay. If your cart has a center-mounted controller, please use the 2004–2008 Precedent Installation Guide instead.

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WARNING!



• Remove all batteries before you begin installation.

• Working with batteries can be dangerous. Safety gear such as protective eyewear, insulated gloves, and insulated tools are required for safe installation.

• We recommend using glasses and other personal protective equipment during the install. When working with lead acid batteries, it is highly recommended to use rubber gloves to prevent contact with acid and other harmful chemicals.

• This guide is not meant to give an untrained person enough knowledge to competently work with lithium batteries or electric vehicle systems. If you do not fully understand this guide, please stop and seek professional installation.

• Damage to the battery, system components, or property due to incorrect or improper installation is not covered by the warranty. Do not short circuit or connect with reverse polarity, damage from improper connections is not covered by warranty.

• When working with electrical components take extra care to avoid contact between tools, battery terminals and other electrical components that would lead to damage or injury.

Important: Inspect your new products for any damage that may have occurred during shipping. If there are any visible signs of damage, **DO NOT CONTINUE** and contact your dealer or Eco Battery.

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INSTALLATION





Step 1:

Support the cart with jack stands located under the frame. Support the rear differential with a floor jack.





Step 2:

Remove the lower shock hardware and the lower rear spring shackle bolts.



Step 3:

Lower the rear differential.

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INSTALLATION



Step 4:

Remove the motor bolts.



Step 5:

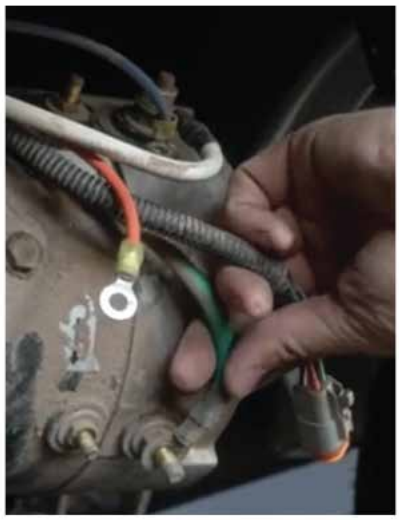
Rotate the motor housing to better access the motor cables.



Step 6:

Disconnect the motor speed sensor.

INSTALLATION



Step 7:

Remove the motor cables from the motor.



Step 8:

Remove the motor.



Step 9:

Remove the factory controller plate screw.

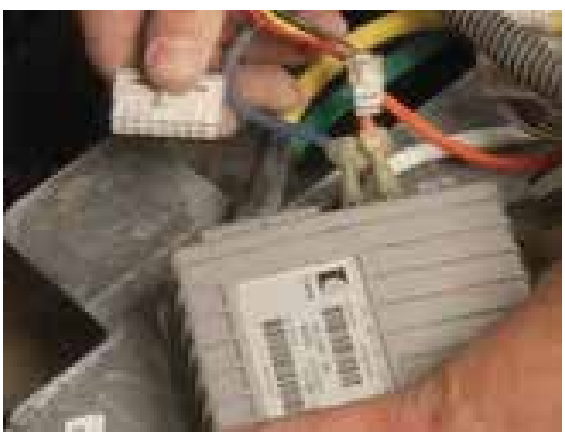
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INSTALLATION

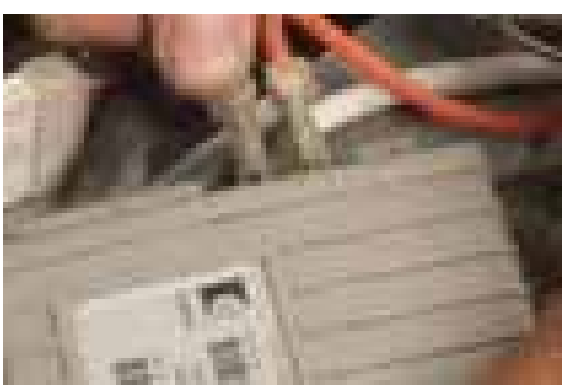




Step 10:
Pull the controller plate up and out.

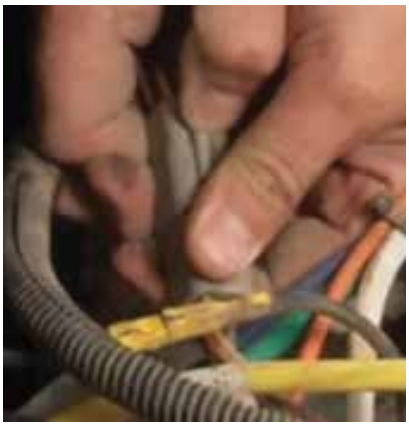


Step 11:
Disconnect the main harness and programming cable from the controller.



Step 12:
Disconnect the two field cables.

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Step 13:

Disconnect the onboard computer.



Step 14:

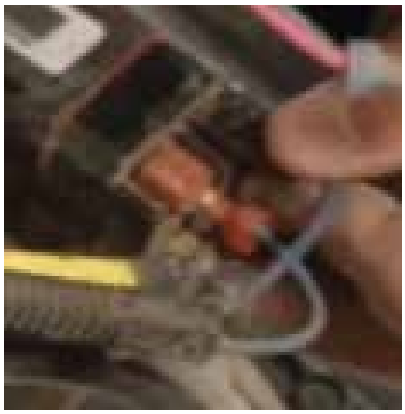
Disconnect the tow/run switch.



Step 15:

Disconnect the tow/run power wire.

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Step 16:

Disconnect the coil wires from the solenoid.



Step 17:

Disconnect the black accessory wire.



Step 18:

Remove cable ties.



Step 19:

Remove the controller assembly.





Step 20:

Remove the four Torx bolts in the rocker panels.





Step 21:

Pull the rocker panels back.

Step 22:

Remove the floor mat.




Step 23: Remove the charge port bezel as shown.





Step 24: Remove the three Torx bolts from the seat base panel.




Step 25: Remove the four Torx screws in the seat base.



Step 26: Pull up on the body and remove the seat base panel.



Step 27: Remove the three Torx screws from the dash panel.






Step 28:

Lay the dash panel down.



Step 29:

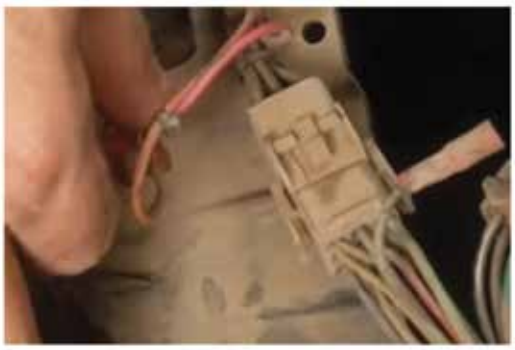
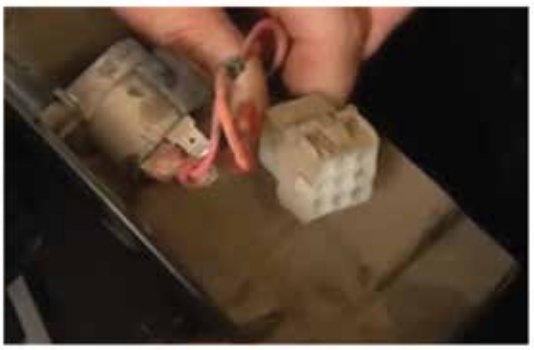
Remove the two Torx screws from the FNR switch pod.




Step 30:

Remove the wires from the FNR switch.

Step 31: Disconnect the dash harness.

Step 32: Remove the plastic push pin and four Torx screws from the pedal assembly.





Step 33: Disconnect the throttle harness from the throttle pedal sensor.





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Step 34: Remove the factory drive harness from the cart.

Step 35:

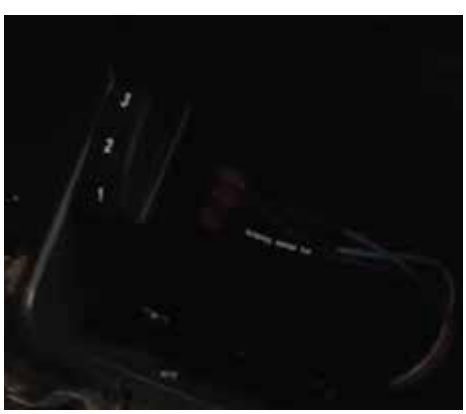
Starting with the key switch side of the harness, loosely route the harness through the guide in the frame and towards the front of the cart.











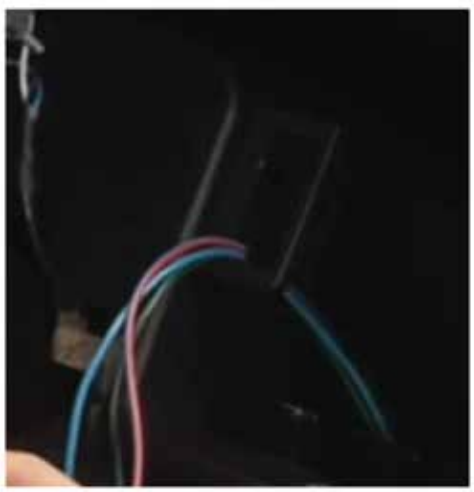
Step 36:

Locate the MCU plate and install it on the MCU mounting bracket using the supplied M6x20 bolts and nuts.

Step 37: Drill a ⅜" hole in the dash to provide access to the mode switch harness.

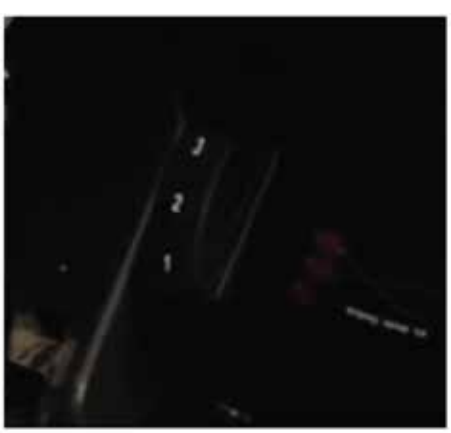
Step 38: Install the mode switch bracket using the two self-tapping screws.

Step 39: Route the main harness through the body and wire track towards the dash. We suggest using a little bit of tape to keep the cables in the track.



Step 40:
Route the harness through the bracket.



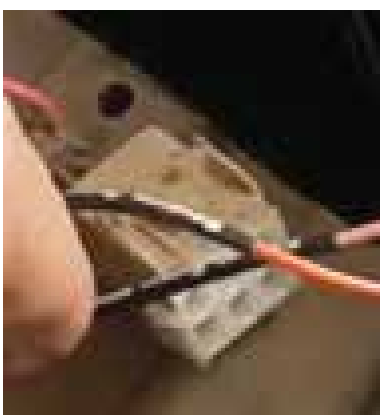
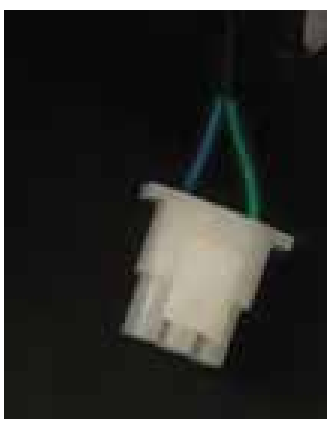


Step 41:
Install the mode switch spade connectors on the mode switch. Note the P1, P2, and P3 labels on the harness correspond with the 1, 2, and 3 positions molded on the side of the switch housing, as highlighted in the diagram on step 47.

Step 42: Install the Reverse Buzzer wires. Note the positive and negative orientation.





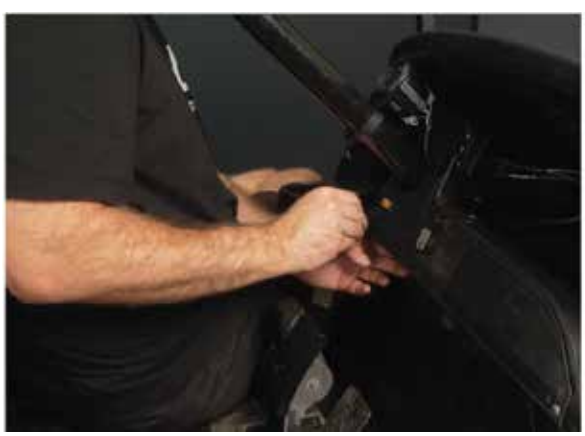



Step 43:

Locate the key switch adapter.
Plug the adapter into the harness.
Install the spade connectors on the key switch.

Step 44:

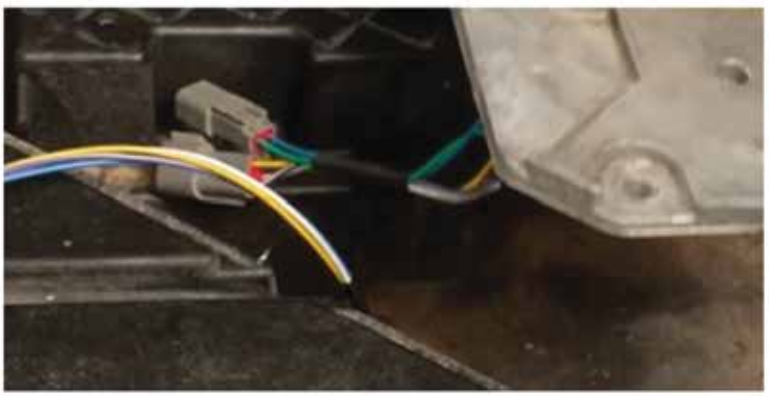
Tidy any loose wires in the dash.




Step 45:

Reinstall the dash panel.

Step 46: Some carts may require a throttle adapter. If necessary, locate the throttle adapter and plug it into the throttle pedal sensor. If your cart does not require an adapter, plug the EB Power harness directly into the throttle pedal sensor.


Step 47: Install the Forward, Neutral, and Reverse spade connectors on the FNR switch. Note the P1, P2, and P3 labels on the harness correspond with the 1, 2, and 3 positions molded on the side of the switch housing, as highlighted in the diagram.






Step 48:

Reinstall the FNR switch pod.



Step 49: Reinstall the pedal assembly.



Step 50:
Locate the EB Power controller plate and place it in the battery compartment.



Step 51:
Route the battery cables through the controller plate as shown.

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Step 52:
Connect the positive battery cable to the solenoid in the orientation shown.

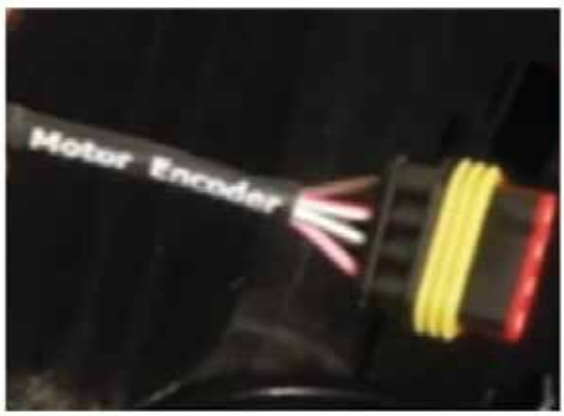


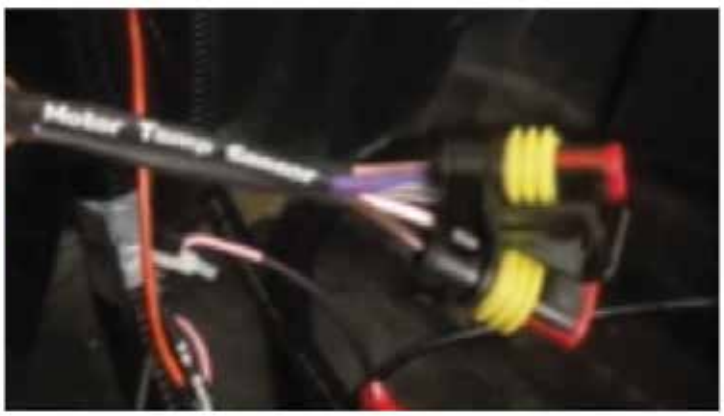
Step 53:
Connect the negative battery cable to the controller as shown.



Step 54: Locate the motor cables and route them towards the motor. Install the motor cables on the corresponding color-coded controller terminals.

Step 55: Route the motor speed sensor and temp sensor towards the motor.







Step 56:

Connect the main harness connector to the controller.

Make sure that the connector snaps in completely.



Step 57:

Route the tow/run wires through the controller plate.



Step 58:
Connect the tow/run switch wires to the tow/run switch. It does not matter which terminals you connect the wires to as long as they are in line vertically when holding the switch upright.

Step 59: Plug in the solenoid harness labeled "TO SOLENOID."

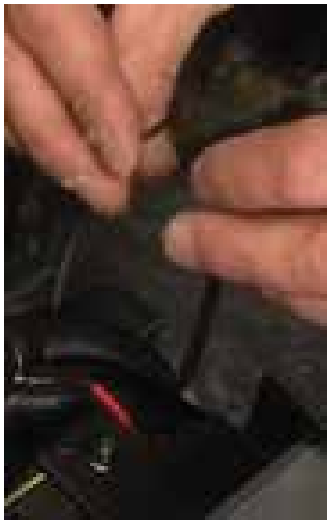






Step 60:
Plug the pink wire from the tow/run switch to the pigtail on the high current cable on the solenoid.

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Step 61:

Secure the harness with the provided zip ties.



Step 62:

Install the EB controller plate in the cart and replace the screw.



Step 63: Install the negative battery cable and any associated cables on the negative battery terminal.

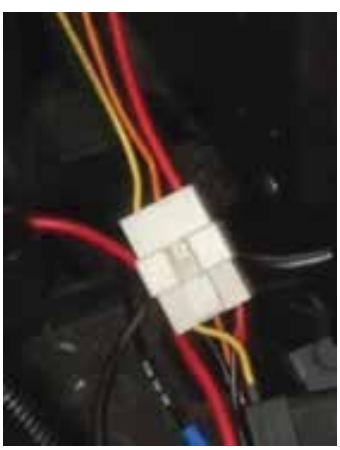
Install the positive battery cable and any associated cables on the positive battery terminal.

Torque the terminal hardware to 8 foot pounds or 96 inch pounds.

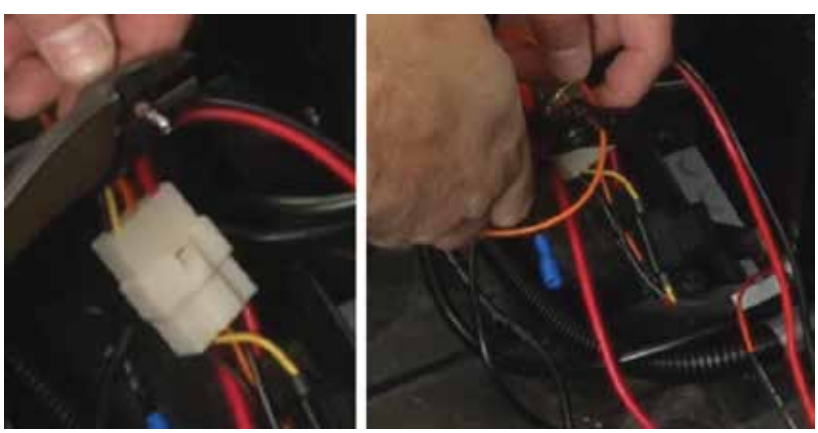
Step 64: Route the controller CAN harness towards the battery.

Step 65: Connect the CAN harness labeled “CAN TO BATTERY” to either CAN port on the battery meter cable.





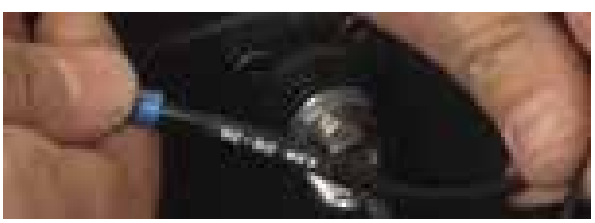
Step 66:
Connect the DC to DC reducer harness into the reducer.



Step 67: Cut the ring terminal off of the orange 16-gauge wire and install the provided 4mm bullet connector.



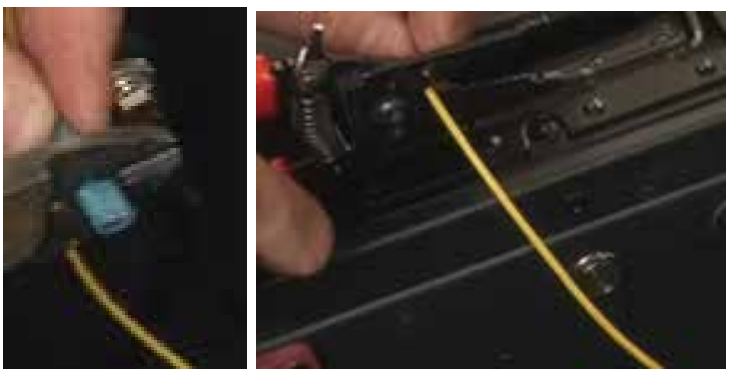
Step 68:
Connect the orange 16-gauge wire to the KSI/DC to DC Trigger wire.



Step 69:
Cut the ring terminal off of the black 16-gauge wire (smaller of the two black wires) and install the 5mm male bullet connector.



Step 70:
Connect the black 16-gauge wire to the pigtail coming off of the negative battery cable.



Step 71:
Cut the ring terminal off the yellow 16-gauge wire and install the provided quarter-inch female spade connector.



Step 72:
Connect the yellow wire to the pigtail coming off of the positive battery cable.



Step 73:
Reinstall the seat base panel and hardware.



Step 74:
Reinstall the charge port bezel.



Step 75:
Reinstall the floor mat.



Step 76: Reinstall the rocker panels and hardware.

Step 77: Reinstall the seat base hardware.





Step 78:
Apply a small amount of grease to the differential input shaft.



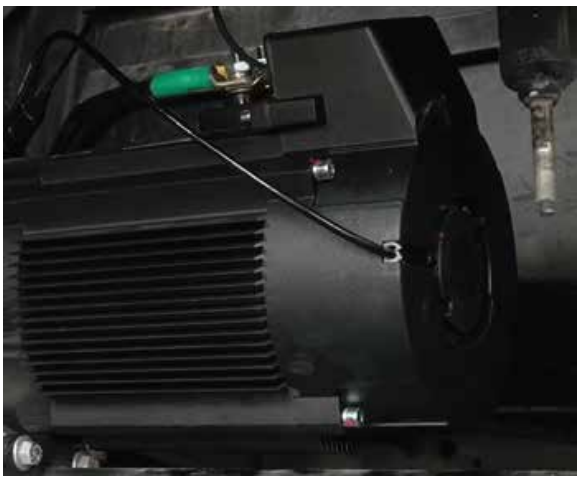
Step 79:
Install the motor on the differential.



Step 80: Install the provided high-current motor cables on the corresponding color-coded motor terminals. Torque the terminal hardware to 8 foot pounds or 96 inch pounds.

Step 81: Apply a small amount of grease to the differential input shaft.





Step 82:

Install the motor on the differential.



Step 83: Install the provided motor hardware.
DO NOT use the old hardware.
Torque to 15 foot pounds or 180 in pounds.



Step 84: Raise the rear axle and reinstall the spring hardware.



Step 85:
Reinstall the lower shock mount hardware.

Step 86:
Tidy all cables.

INSTALLATION

Final Step:

Connect to the EB Power App and tune your cart.

Step-by-step App instructions can be found by scanning the first QR code below, and selecting Product Resources, then Install Help and AC Controller App Programming.

NEED MORE HELP?

877-326-2288

support@ecobattery.com

For additional product info, user manuals, user guides, and warranty information visit **https://ecobattery.com/pages/quickstart**

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