EB POWER

AC KIT INSTALL GUIDE

EZGO TXT

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 explains how to install the EB Power AC Controller and Motor from Eco Battery on EZGO TXT carts. It provides the general installation process and applies to multiple generations of TXT models, including both 36V and 48V versions. While certain model-year details may vary, the steps outlined here cover the standard installation approach that applies broadly across these carts.

Eco Battery

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.

Eco Battery

INSTALLATION





Step 1:

Remove the controller cover hardware and disconnect the tow-run switch.



Step 2:

Remove the three high-current cables from the controller.

Step 3:

Disconnect the throttle harness.

Eco Battery

INSTALLATION



Step 4:

Disconnect the motor speed sensor, if applicable.



Step 5:

Disconnect the main harness connector.





Step 6:

Disconnect the solenoid coil wires.



Step 7:

Remove the high current cables from the solenoid.

Step 8: Remove the controller and mounting plate assembly.









Step 9:

Support the cart with jack-stands, placing them under the frame. Support the rear differential with a floor jack.



Step 10:
Remove the lower shock hardware and the lower rear spring shackle bolts.



Step 11:
Lower the rear differential.

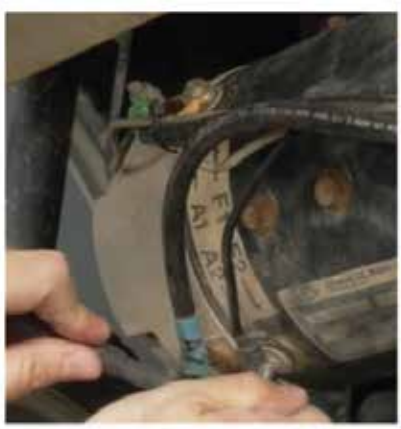


Step 12:
Remove the motor bolts.

Eco Battery




Step 13:
Rotate the motor housing to better access the motor cables.




Step 14:
Remove the motor cables from the motor.

Step 15: Remove the cables from the cart.







Step 16:

Remove the motor.



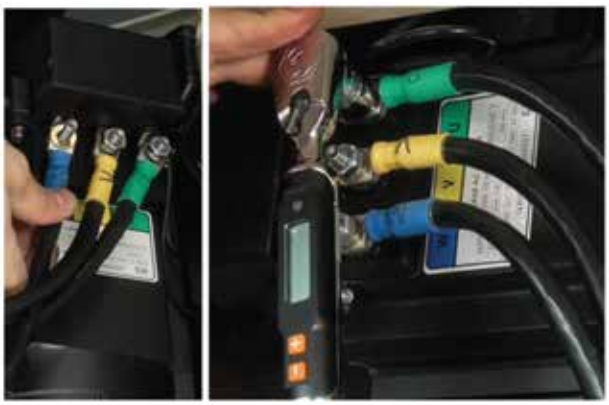
Step 17:

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



Step 18:

Install the motor on the differential.



Step 19:
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 20: Route the motor cables through the factory cable loop as shown. Rotate the motor into position.



Step 21: Install the provided motor hardware; DO NOT use the factory hardware. Torque to 15 foot pounds or 180 in pounds.



Eco Battery

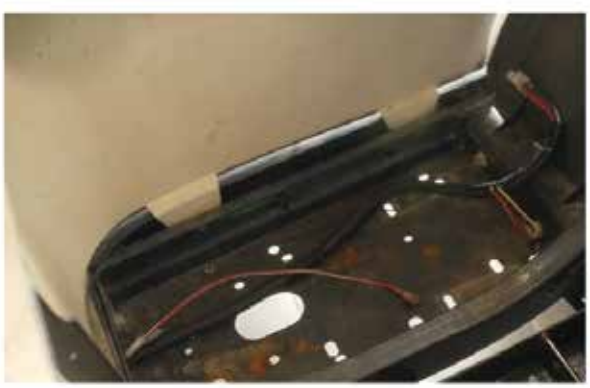


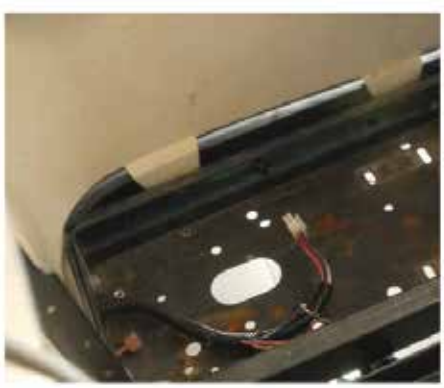


Step 22:

Disconnect the charger interlock wire.

Step 23: Remove the wiring harness through the battery compartment.







Step 24:

Remove the harness from under the cart.




Step 25:
Remove the rivets from the key switch panel.




Step 26:
Remove the cup holder.

Step 27: Disconnect the key switch. (if you have a 12-volt harness connected to the key switch for lighting, disconnect it, but do not remove the 12-volt harness from the cart, it will be reinstalled later). Disconnect the wires from the reverse buzzer. Disconnect the FNR switch.





Step 28: Remove the factory harness from the cart.

Step 29: Locate the new Eco Battery harness.



Step 30: 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.



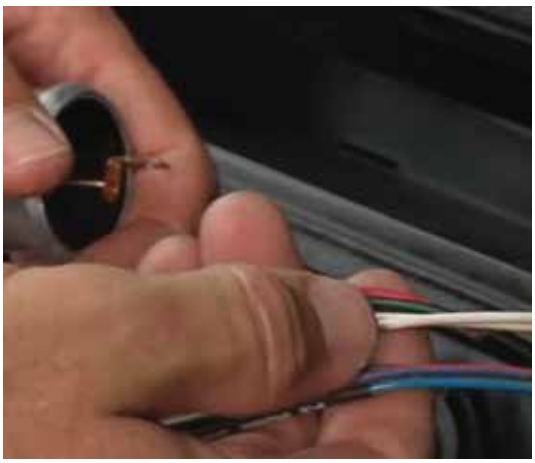




Eco Battery

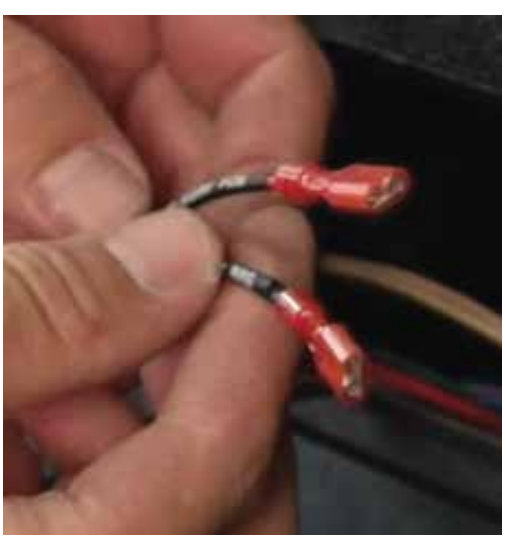
Step 31: Feed the harness up through the dash as shown.





Step 32:

Install the Key Switch Input and Key Switch Output wires on the key switch.



Step 33:

Install the Reverse Buzzer wires.

Note the positive and negative orientation.



Step 34:

Install the three-position mode switch.

Install the FNR switch.

Step 35: Install the Forward, Neutral, and Reverse spade connectors on the FNR switch. 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.







Step 36:

Install the switch panel.

INSTALLATION



Step 37: Locate the provided plastic rivets.
Remove the plunger from the body.
Install the body of the rivet in the switch panel
and insert the plunger until it's fully seated.



Step 38: Locate the controller mounting plate and M5 hardware. Place the mounting plate on the passenger side of the cart and line up the mounting holes in the plate with the existing holes in the cart.



Step 39: Install the M5x8 bolts from the bottom of the cart into the two tapped holes on the back of the controller plate.
Install the two M8x25 bolts from the top in the holes shown.

Eco Battery



Step 40:
Route the motor temp sensor and speed sensor cables through the cable guide and towards the motor.



Step 41:
Route the high current motor cables through the cable guide and towards the controller.



Step 42:
Connect the motor temp sensor and speed sensor cables to the motor.



Step 43:
Raise the rear differential and reinstall the shackle hardware.



Step 44:
Reinstall the shock hardware.





Step 45:
Tighten all hardware.

INSTALLATION

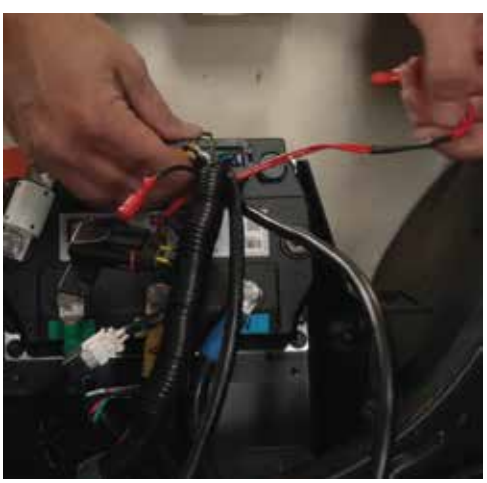


Step 46:
Connect the motor cables on the corresponding color-coded controller terminals. Torque the terminal hardware to 8 foot pounds or 96 inch pounds.





Step 47:
Install the tow/run switch bracket using the provided hardware as shown.



Step 48:
Connect the main harness connector to the controller. Make sure that the connector snaps in completely.

Eco Battery

Step 49: Plug in the solenoid harness labeled "TO SOLENOID."






Step 50: Route the tow/run wires through the switch bracket. 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 51:

Locate the optional charger plate.

Step 52: Install the three standoffs in the shown locations.





Step 53:
Hand tighten and then back off about ¼ turn.

Step 54: Place the charger plate in the shown locations on the driver's side of the cart. Once in position, tighten the screws into the standoffs, securing their positions. Install the three nuts on the bottom of the cart.







Step 55:

If you have a cart with a factory horn, it will need to be relocated.

We chose to drill a hole in the side of the plate and install as shown.



Step 56:

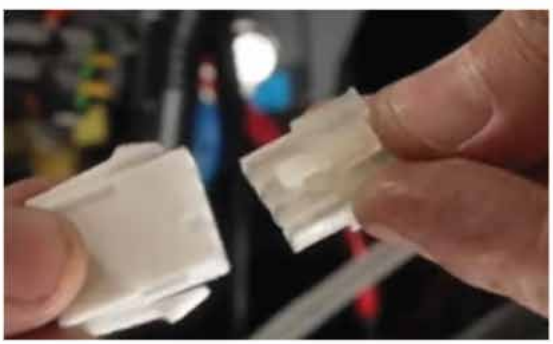
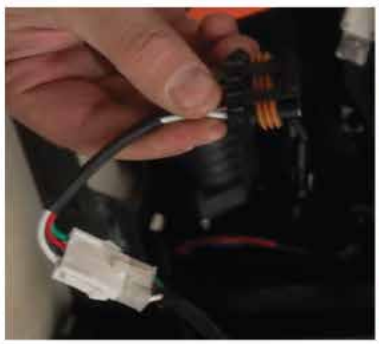
Install the 12-volt, DC to DC reducer.

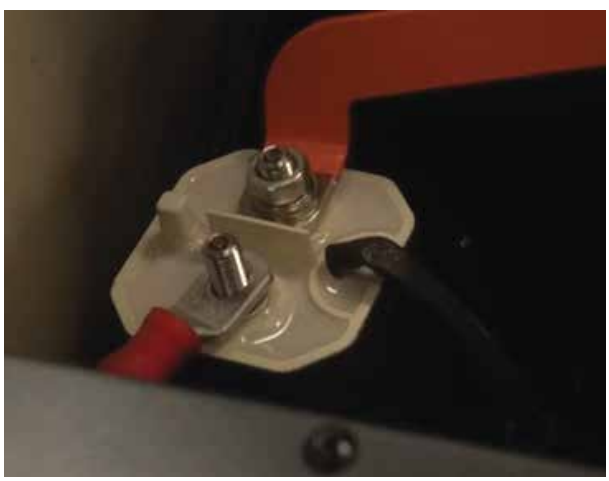


Step 57:

Install the charger.

Step 58: Locate the appropriate throttle adapter for your cart. Note that the TXT48 model carts will not need a throttle adapter. Plug in the throttle adapter.

Step 59:
Install the positive battery cable labeled "TO SOLENOID" on the solenoid. Torque terminal hardware to 8 foot pounds or 96 inch pounds.



Step 60:
Connect the tow-run switch wire to the battery positive cable.



Step 64:
Install the negative battery cable labeled "TO CONTROLLER B negative" on the controller. Torque terminal hardware to 8 foot pounds or 96 inch pounds.

Step 62: Install the positive battery cable and any associated cables on the positive battery terminal. Install the negative battery cable and any associated cables on the negative battery terminal. Torque to 8 foot pounds or 96 inch pounds.

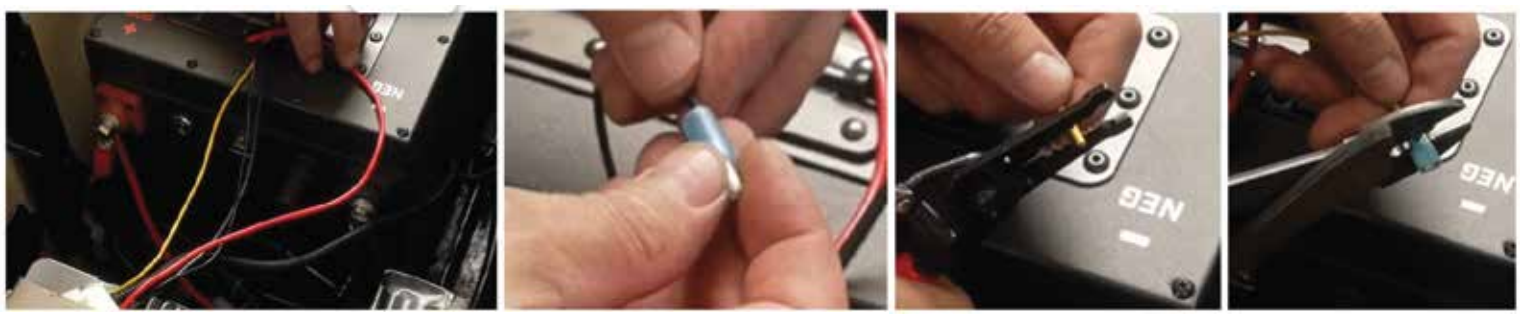







Step 63:
Route the controller CAN harness towards the battery. Connect the CAN harness labeled "CAN TO BATTERY" to either CAN port on the battery meter cable.

Step 64: If you are using an Eco Battery 12-Volt Reducer, locate the 12-volt reducer harness. Route the small 16-gauge black and yellow wires towards the battery. Install the provided 5mm bullet connector on the black 16-gauge wire. Install the provided one-quarter female spade connector on the yellow 16-gauge wire.



Step 65: Install any necessary connectors on the larger red and black 12-volt wires.

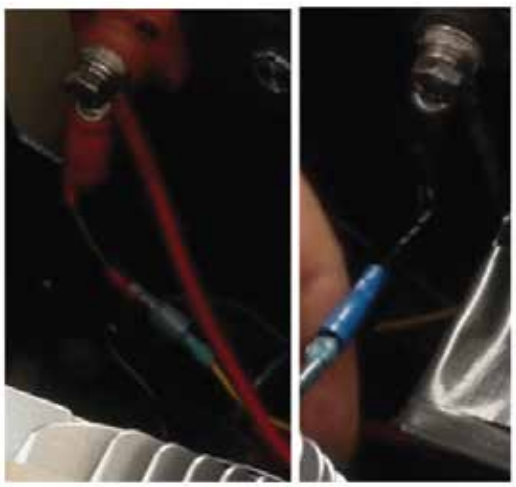




Step 66:

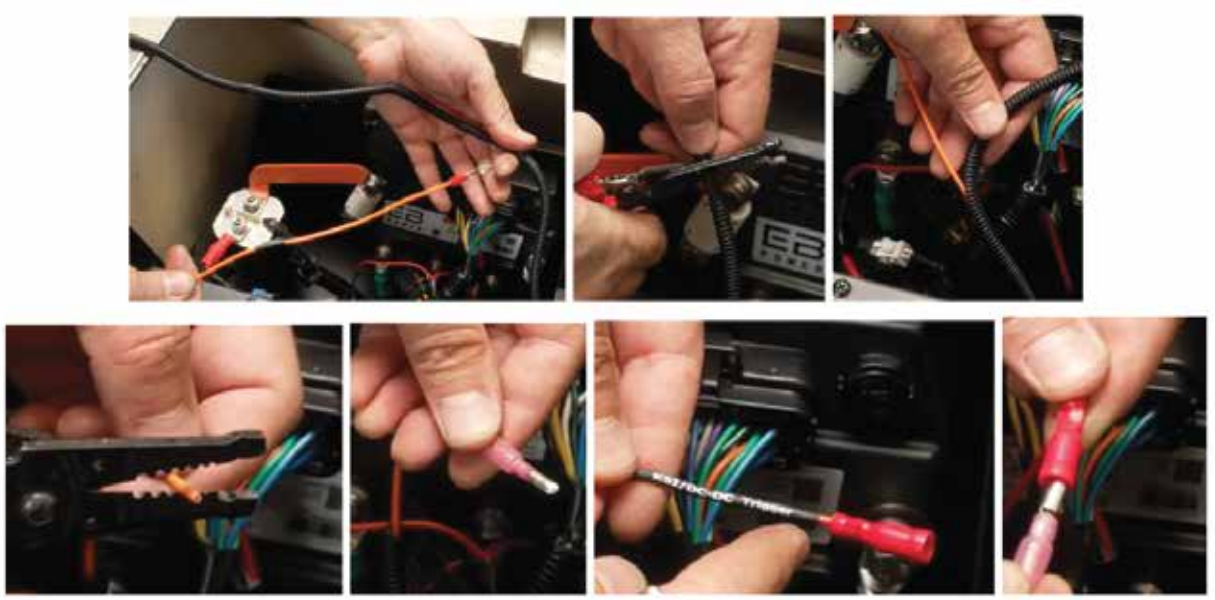
Plug the harness into the 12-volt reducer.

Step 67:
Connect the red (positive) and black (negative) 12-gauge wires to the input side of your cart's 12-volt system.



Step 68:
Connect the black and yellow 16-gauge wires to the pigtails on the battery cables labeled "DC-DC positive" and "DC-DC negative," respectively.

Step 69:
Cut the orange DC to DC trigger wire as shown. Install the provided 4mm male bullet connector. Plug the previously installed 4mm male bullet connector into the 4mm female bullet connector on the harness labeled "KSI/DC-DC TRIGGER.



Eco Battery

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**

DOWNLOAD OUR APP!

Available on the App Store

ANDROID APP ON Google play

EB Eco Battery