Eco Battery

AC KIT

Club Car Precedent (2004-2008)

Install Guide

BEFORE YOU BEGIN



This guide covers the installation of your new AC Kit on a Club Car Precedent (2004-2008) with a center-mounted stock controller.

Your AC Kit **must be registered within 60 days of purchase** to activate the full duration of the warranty. Products not registered within 60 days of purchase will be covered by a 1-year limited warranty.

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

www.ecobattery.com/register

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RECOMMENDED TOOLS



To follow this guide you'll need basic hand tools including, but not limited to:

1. Basic Socket Set
2. Basic End Wrenches
3. Screwdrivers
4. Basic Electrical Tools
5. Torx Drivers
6. Plastic Clip Removal Tool (Not Required)

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!** Contact your dealer or Eco Battery.

INSTALLATION PREP

1. Block the cart and set the parking brake to prevent the cart from rolling.

2. Turn the key to the OFF position.

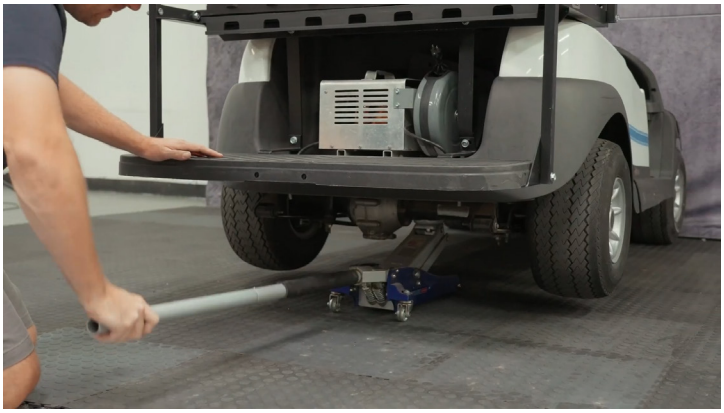
3. Tilt the seat forward to access the batteries.

4. Place the RUN/OFF switch in the OFF position.

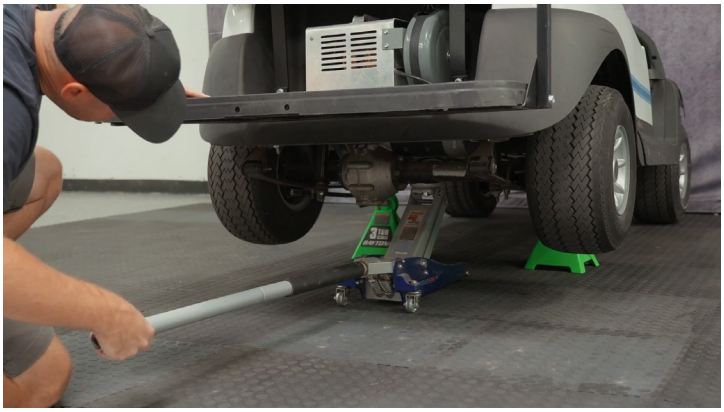
5. Remove the batteries.

If applicable, remove the battery watering system. Clean any spills with a disposable rag and safely discard them.

6. If your battery compartment is dirty or has any battery corrosion, take this opportunity to clean the area.



7. Support the rear differential with a floor jack.



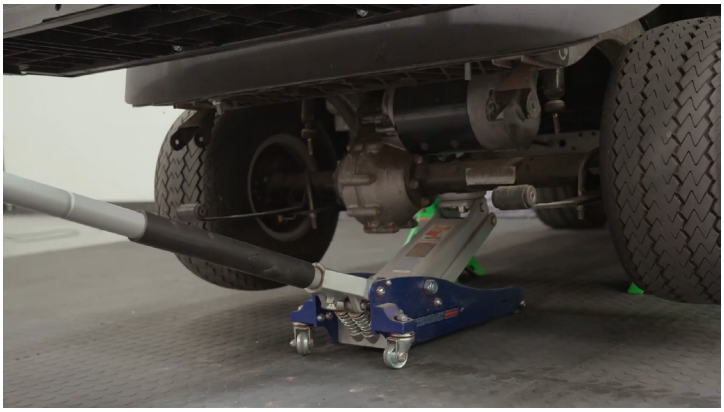
8. Support the cart with jack stands, placing them under the frame and support the rear differential with the floor jack.



9. Remove the lower shock hardware.



10. Remove the lower rear spring shackle bolts.



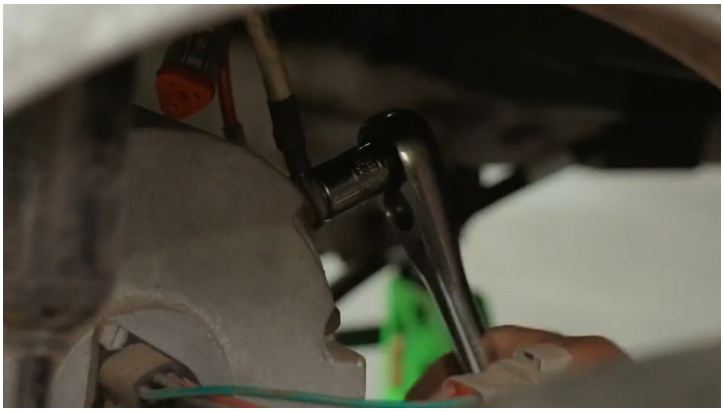
11. Lower the rear differential.



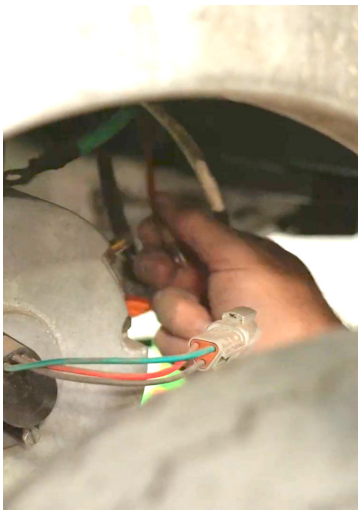
12. Remove the motor bolts.



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



14. Remove the motor cables from the motor.

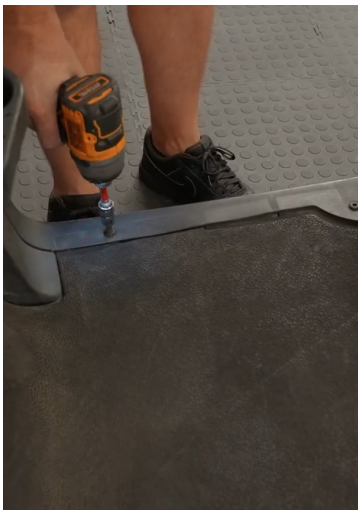




15. Disconnect the motor speed sensor if applicable and remove the motor.




16. Remove the controller cover.




17. Remove the rocker panel hardware and pull off the panel.

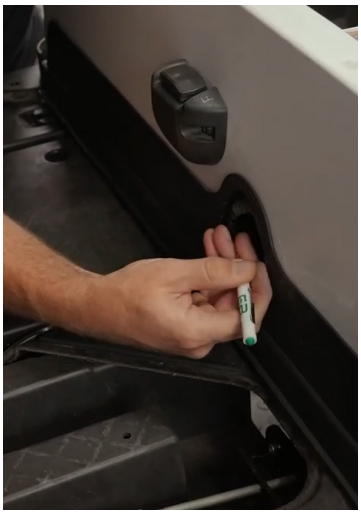
Repeat this process on the other side.

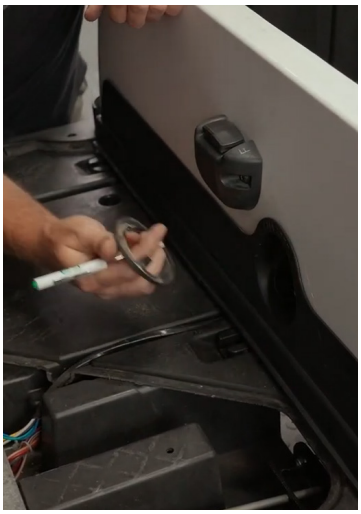


18. Remove the floor mat.



19. Remove the pedal assembly cover.





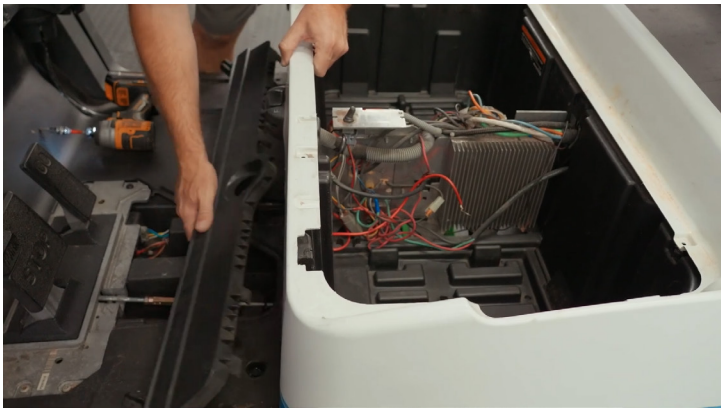
20. Remove the charge port bezel as shown.



21. Remove the kick panel hardware.



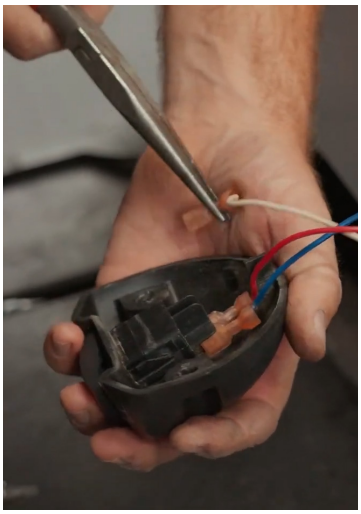
22. Remove the four Torx screws in the seat base.



23. Remove the kick panel.



24. Remove the hardware from the FNR switch.

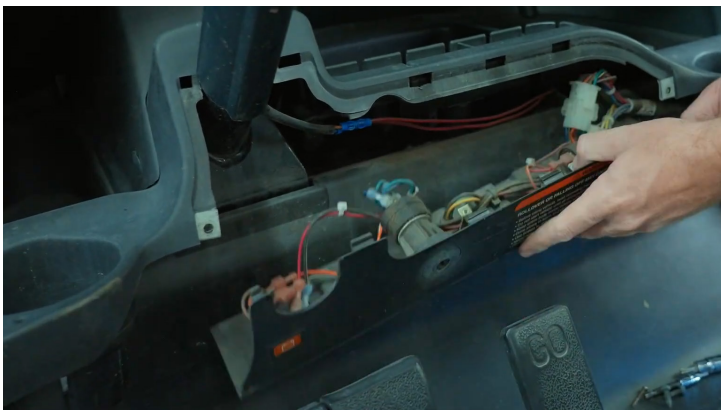




25. Remove the wires from the FNR switch.



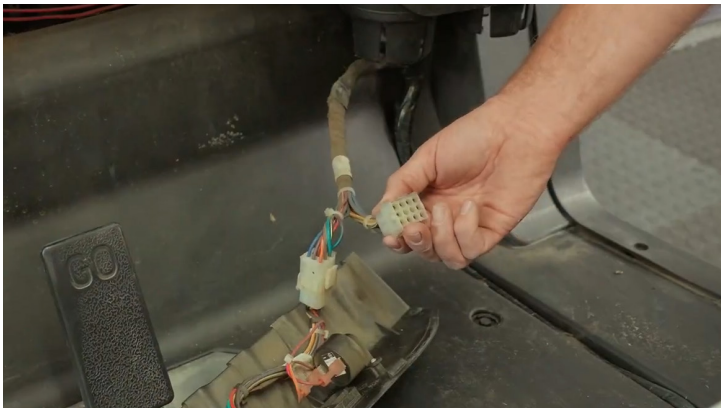
26. Remove the three Torx screws from the dash panel.



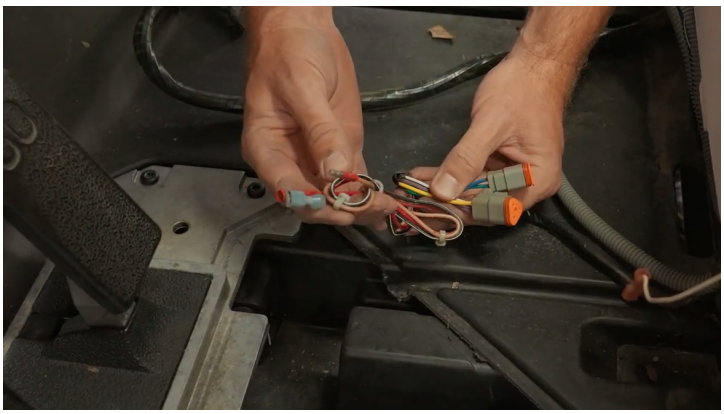
27. Lay the dash panel down.



28. Disconnect the dash harness.



29. If your cart has a 12-volt wiring system for headlights, tail lights, and blinkers, disconnect the connection.

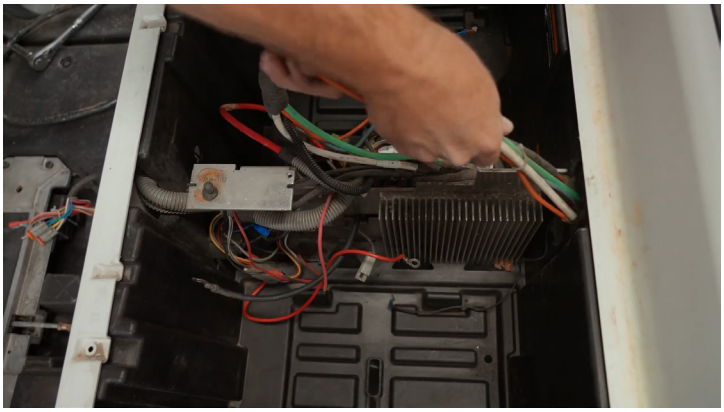


30. Disconnect the throttle harness from the throttle pedal sensor.

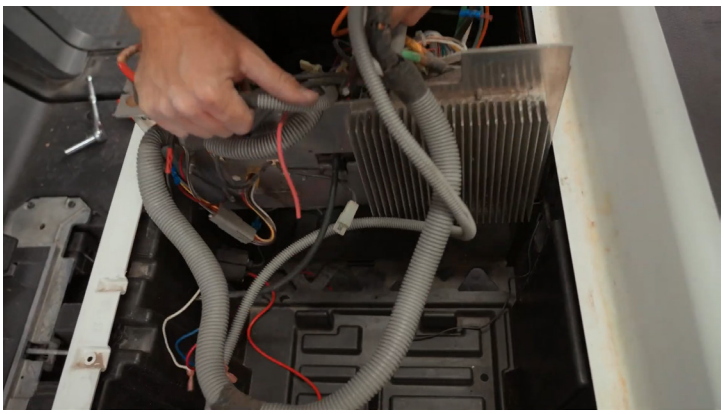
If your cart has a 12-volt wiring system, also disconnect the brake pedal switch.



31. If your cart has tail lights, disconnect the tail light connectors before removing the harness.



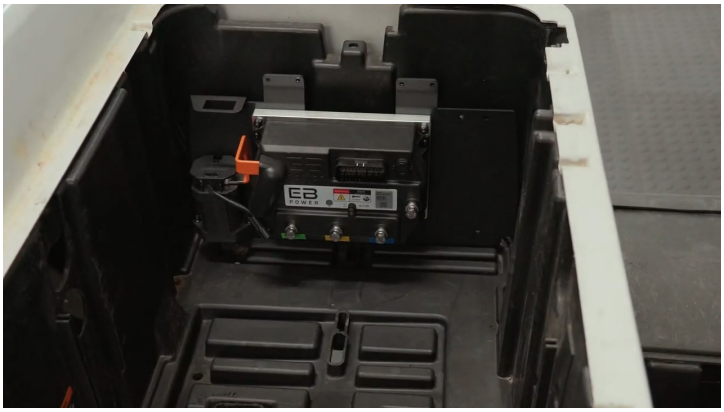
32. Pull all cables and harness components into the cart body.



33. Pull the controller plate up and out.



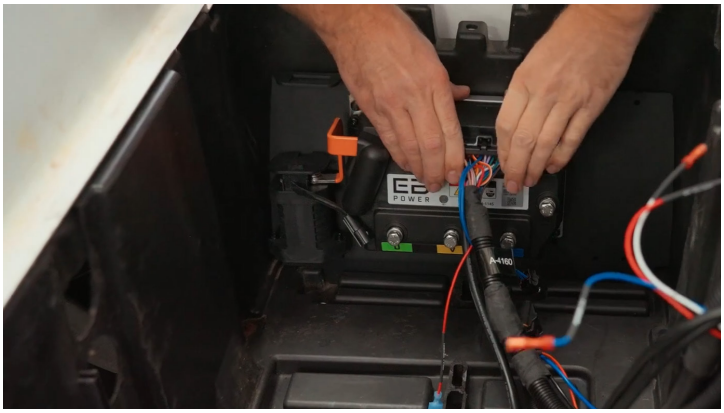
34. If you're installing an Eco Battery lithium battery, remove the bosses as shown. We prefer an oscillating tool; you can use a cutoff tool of your choice.



35. Locate the EB Power Controller Plate and install it on the driver's side of the battery compartment.



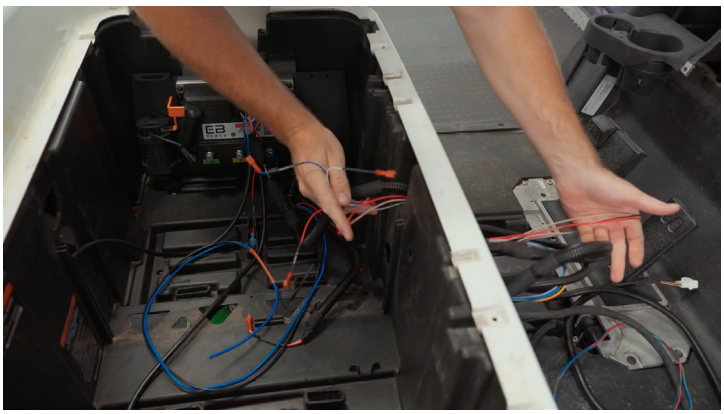
36. Install the plate hardware.



37. Connect the main harness connector to the controller. Make sure that the connector snaps in completely.



38. Route the motor speed sensor and temp sensor towards the motor.

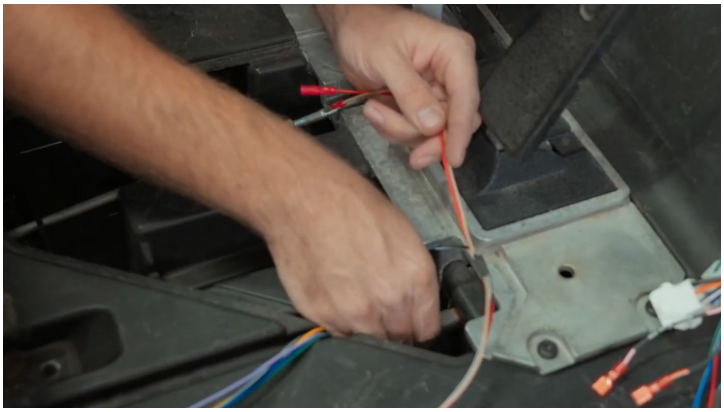


39. Starting with the key switch side of the harness. Route the harness loosely through the body as shown.



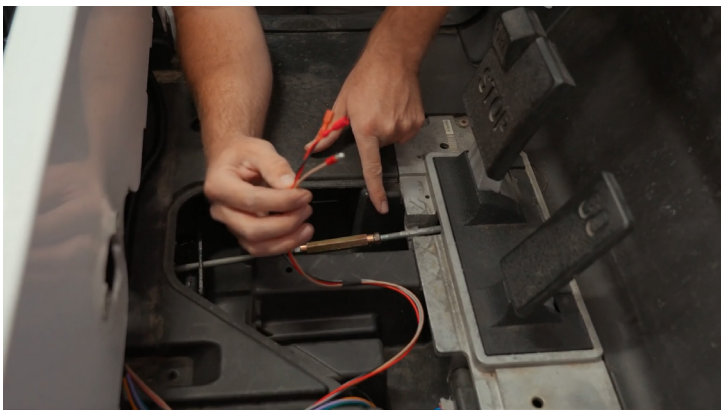
40. If your cart has taillights, you will need to connect the taillight connectors.

If your cart does not have tail lights, you can simply tuck the tail light harnesses away.

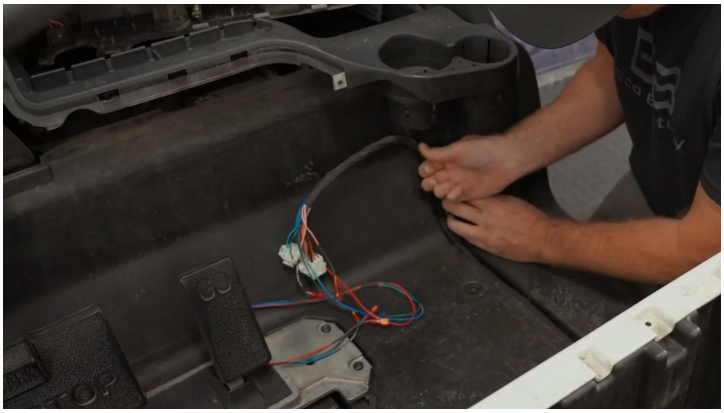


41. Plug the throttle pedal connections directly into the throttle pedal sensor.

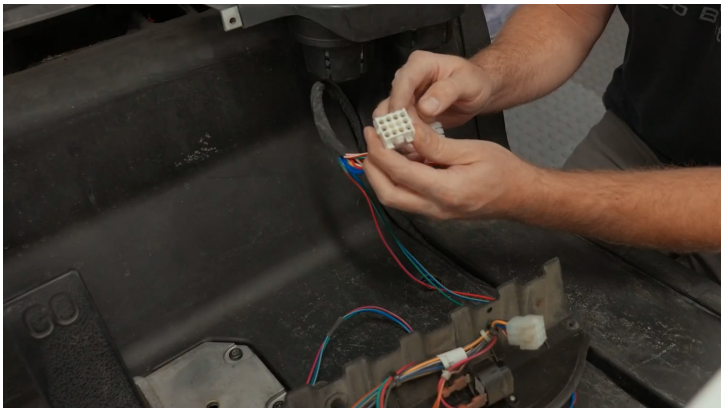
If your cart requires an adapter, plug the adapter in now.



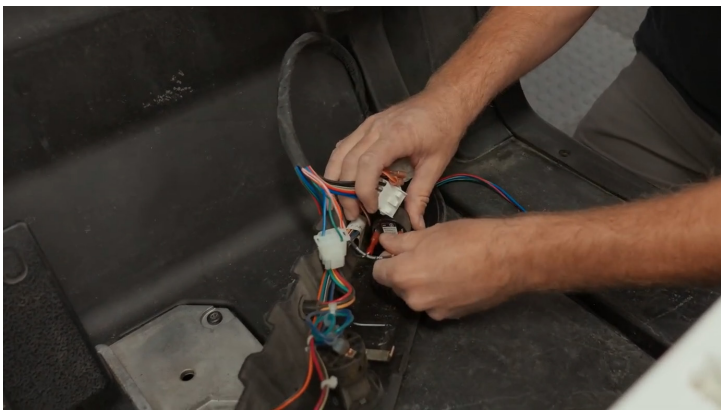
42. Connect your brake lights here if applicable.



43. Route the mode switch harness through the body and wire track towards the dash.



44. If your cart is equipped with a 12-volt wiring harness, connect it here.



45. Install the reverse buzzer wires. Note the positive and negative orientation.



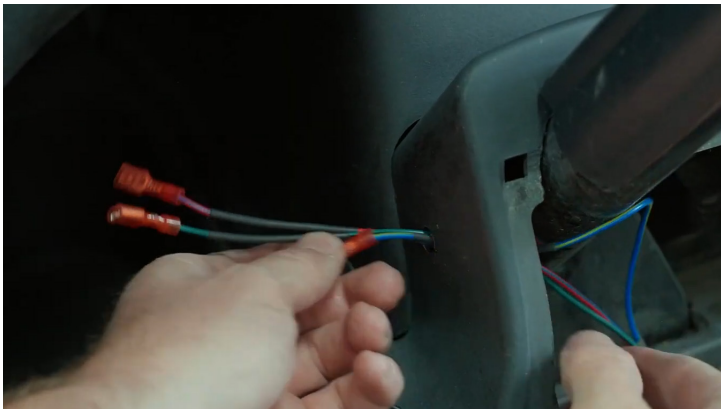
46. If your cart does not have a 12-volt wiring harness, you will only need to plug in the connector shown.



47. If your cart has a 12-volt wiring harness, you will need to plug in both connectors shown.



48. Find a suitable location for the mode switch and bracket. You will likely need to drill a hole to gain access to the mode switch harness. The following is our preferred location.



49. Route the mode switch spade connectors through the hole.



50. Mount the switch bracket using the provided hardware.



51. Feed the mode switch spade connectors through the bracket and install the spade connectors for 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.



52. Install the mode switch on the mode switch bracket.



53. Tidy any loose wires in the dash.



54. Reinstall the dash panel.



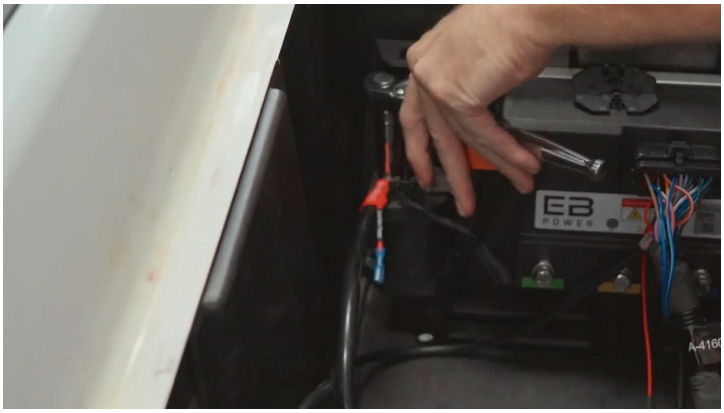
55. Route the FNR spade connectors toward the front of the cart.



56. Install the forward, neutral, and reverse spade connectors on the FNR switch. Note the proper connections as shown on the harness.



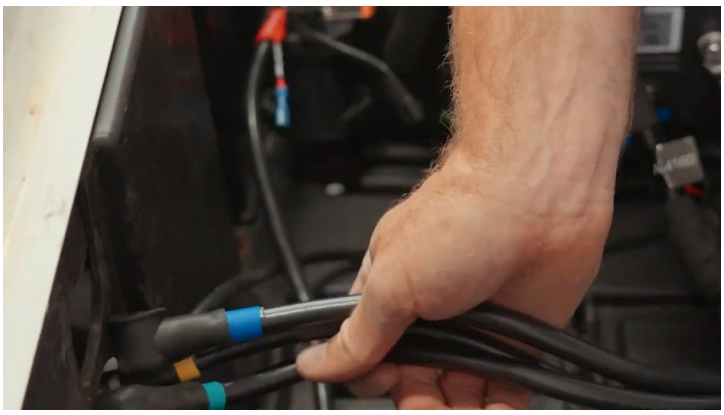
57. Reinstall the FNR switch pod.



58. Connect the positive battery cable to the solenoid using the cable labeled, “Solenoid”



59. Connect the negative battery cable to the controller using the cable labeled, “Controller B-”

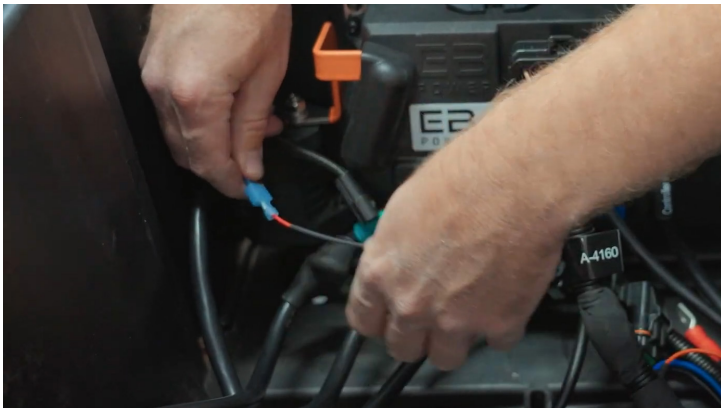


60. Locate the motor cables and route them towards the motor.



61. Install the motor cables on the corresponding color-coded controller terminals.

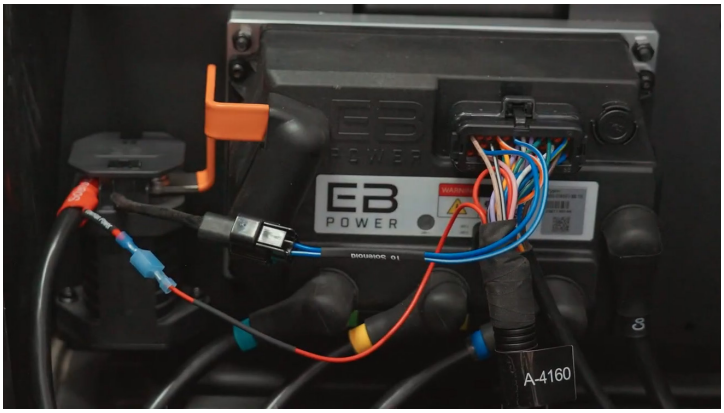
Torque the terminal hardware to 8 ft/lb or 96 in/lbs.



62. Connect the tow run power.



63. Plug in the solenoid connector.



64. Install the solenoid cover.

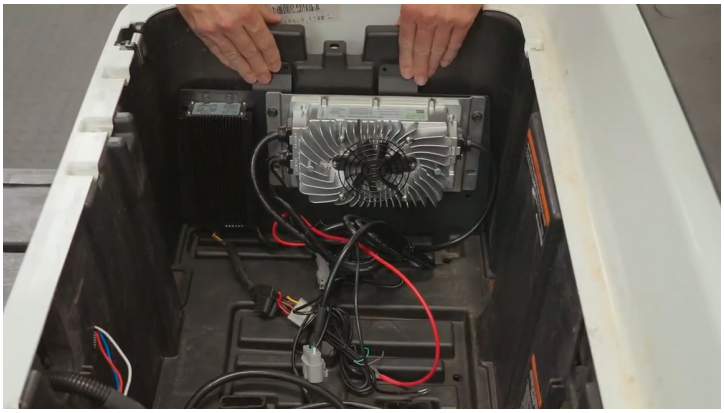


65. Route the tow run wires through the controller plate.

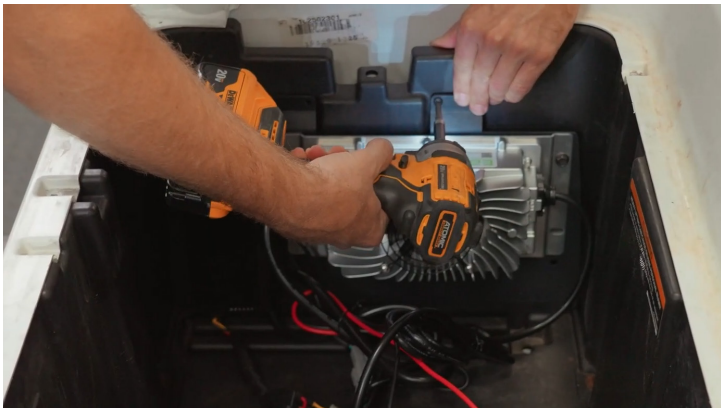


66. Connect the tow/run switch wires to the tow/run switch.

It does not matter which terminals you connect the wires to.



67. If you are using the optional EB Power charger mounting plate, mount the charger on the plate and then install it on the passenger side of the battery compartment.



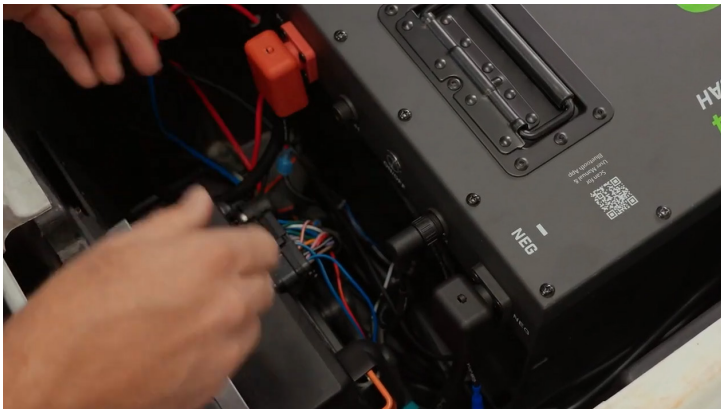
68. Install mounting hardware.



69. 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 the terminal hardware to 8 ft/lb or 96 in/lbs.

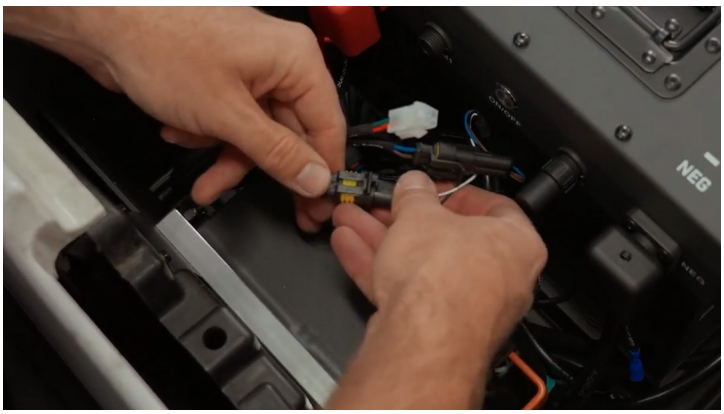


70. Install the battery terminal covers.





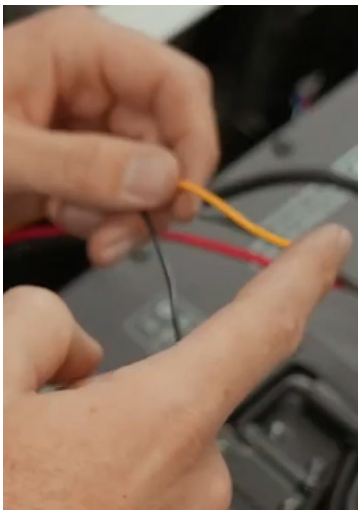
71. If you are using an Eco Battery lithium battery, connect the CAN harness labeled, “CAN to Battery” to either of the CAN ports on the battery meter cable.

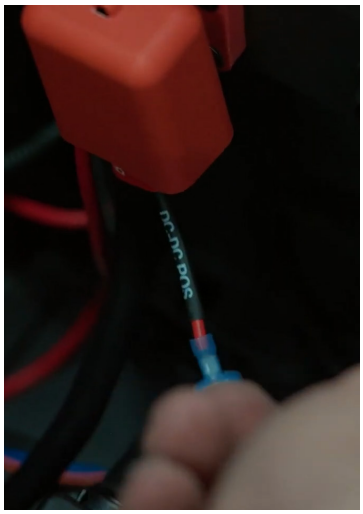


72. The black wire is battery negative and connects to the pigtail on the battery negative terminal labeled, “DC-DC Negative”

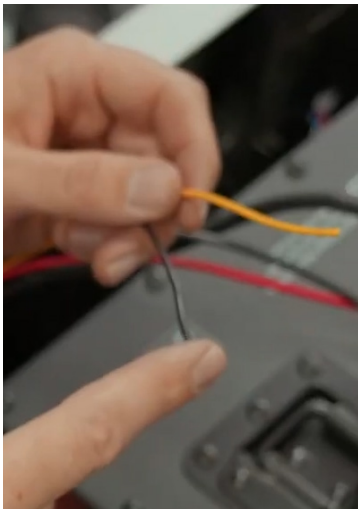


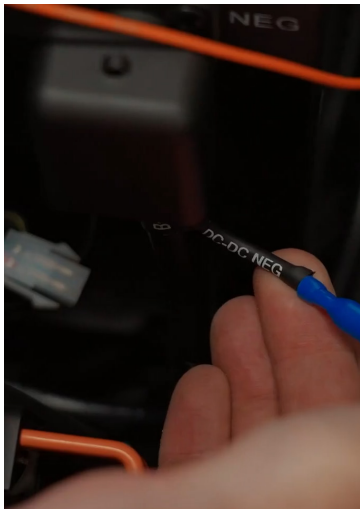
73. If your cart has 12-volt wiring, the connections can be made as shown using the supplied connectors. The orange and black wires are the battery input for the 12-volt converter.



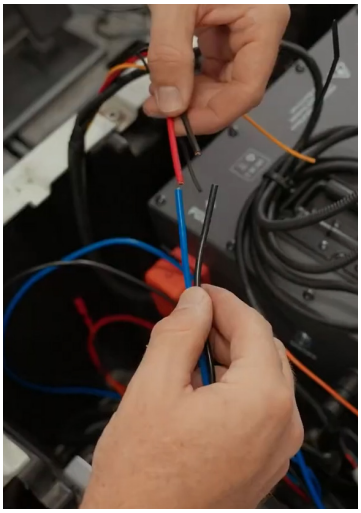


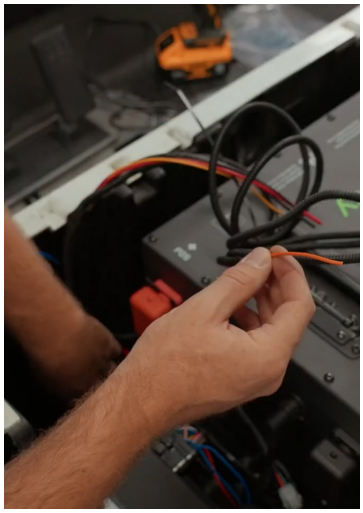
74. The orange wire is battery positive and connects to the pigtail on the battery positive terminal labeled “DC-DC Positive”.





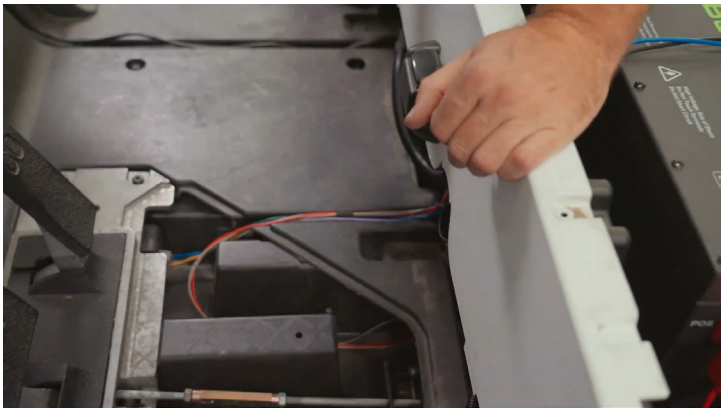
75. Install the supplied bullet connector to the orange key-on trigger wire on the DC-DC converter. Connect the bullet connector to the EB Power harness wire labeled, “DC-DC Trigger”





76. If you have 12-volt accessories, connect them as shown.

The orange key on the connection can be connected to the DC-to-DC trigger.

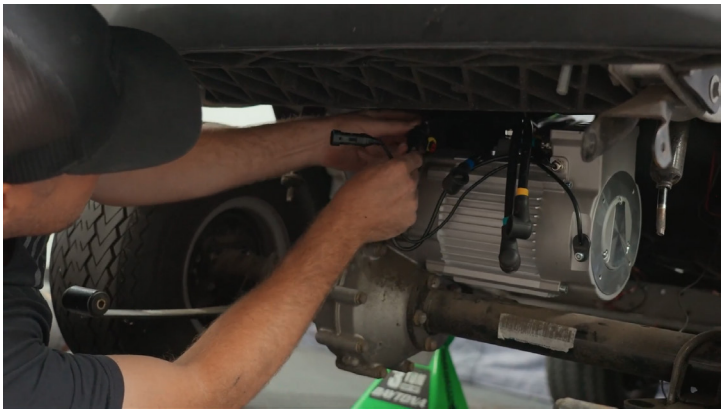


77. Tidy all connections and wiring.

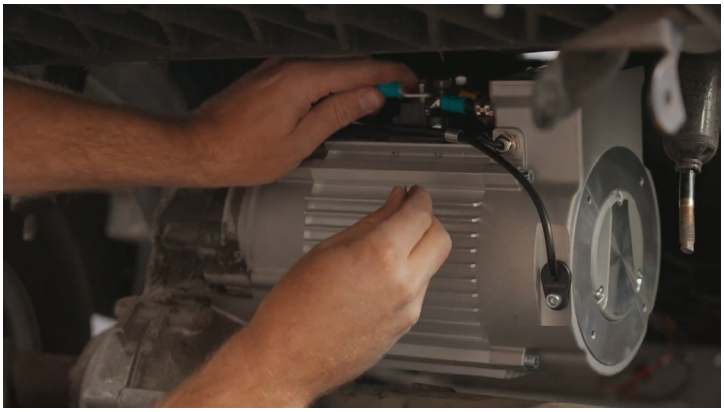


78. Apply a small amount of grease to the differential input shaft and install the motor.

Install the provided motor hardware and torque the motor bolts to 10 ft/lb or 120 in/lbs.



79. Connect the encoder and the temp sensor cables to the motor.



80. Install the provided high-current motor cables on the corresponding color-coded motor terminals.

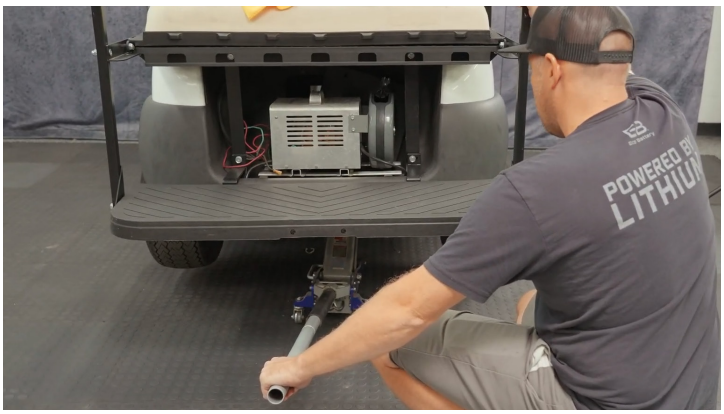
Torque the terminal hardware to 8 ft/lb or 96 in/lbs.



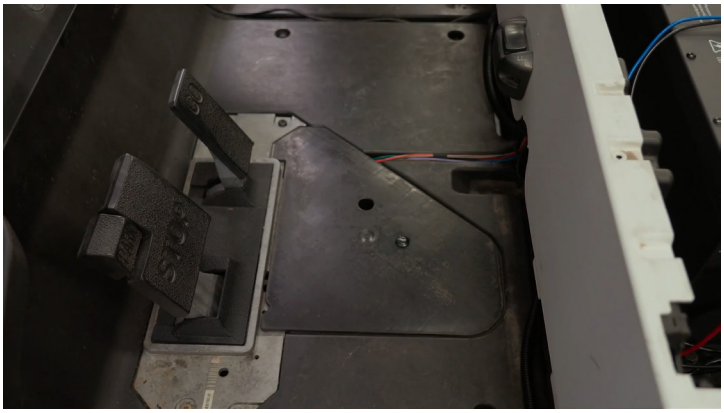
81. Raise the rear axle.



82. Reinstall the lower shock and spring shackle hardware.



83. Remove the jack stands and lower the cart back down.



84. Reinstall the pedal cover.



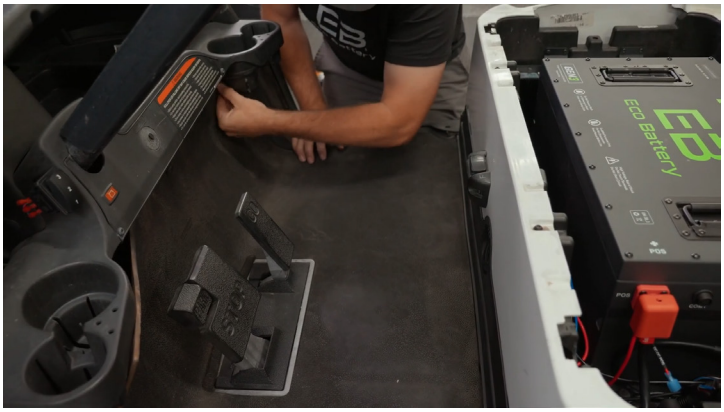
85. Reinstall the kick panel and hardware.



86. Reinstall the seat base hardware.



87. Reinstall the charge port bezel.



88. Reinstall the floor mat.



89. Reinstall the rocker panels and hardware.

90. Connect to the EB Power App and tune your cart.

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



91. For additional benefits and advanced integration, please see your dealer about our Eco Battery Tech Tool.

Your installation is now complete.

Battery User Manual

NEED MORE HELP?

877-326-2288
support@ecobattery.com

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

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