MODZ®

Battery Installation Guide

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Warranty and Registration

Important: Inspect product for any damage. If there are any visible signs of damage, DO NOT CONTINUE! Contact your dealer or MODZ.

Register your battery before installation. It is much easier to find the registration details before everything is installed.

Your lithium battery must be registered within 60 days of purchase to activate the lifetime warranty. If it is not registered within 60 days, it will default to a 1 year limited warranty.

You can register through the *MODZ app* or *online at ridemodz.com/modz-lithium-battery*

Additional Resources

Please refer to our Owners Manual for additional information about the battery operation, the Battery App, and care of your MODZ battery.

Customer Service: 884-663-9872

ridemodz.com/modz-lithium-battery

Battery Safety Warnings

DANGER / WARNING

Failure to follow these instructions may result in fire, explosion, serious injury, death, or property damage.

Personal Safety (REQUIRED)

- Always wear protective eyewear, insulated gloves, and use insulated tools.
- Rubber or latex gloves are strongly recommended when working with lead-acid batteries.
- This document does not qualify untrained individuals to work on lithium batteries or EV systems. If unsure, stop and seek professional installation.

Fire, Explosion, and Thermal Hazards

- DO NOT disassemble, crush, puncture, incinerate, or modify the battery.
- DO NOT use or store the battery in high temperatures.
- Recommended storage temperature: 32°F - 113°F.
- Keep the battery in original packaging until ready to use.

Electrical Hazards

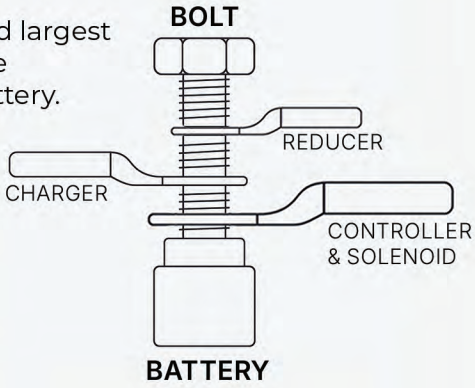
- DO NOT short circuit battery terminals.
  Always remove the negative (-) cable first and install it last.

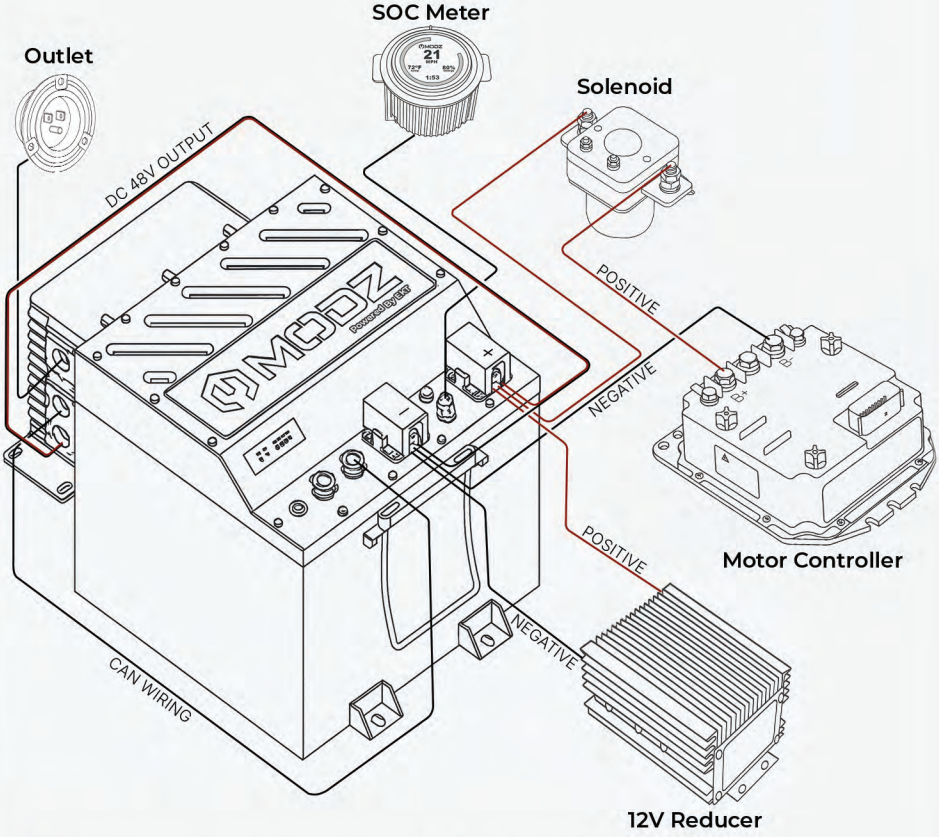
Battery Safety (CRITICAL)

- Confirm you received the correct battery for your cart. The systems are either 38.4 V (36 V), 51.2V (48V) or 73.6 (72V).
- ONLY use MODZ charger.
- DO NOT immerse battery or charger in water or liquids.
- Damage to battery, system components, or property due to incorrect or - improper installation is not covered by our warranty.

Wiring Schematic

Ring terminals should be stacked largest to smallest with the largest cable (highest draw) nearest to the battery.





⚠ If your solenoid has a resistor installed, **do not** remove it. Leave the controller and solenoid configured as originally installed.

Battery Kit Includes

Lithium Battery



Nano
38.4V 60Ah
51.2V 60Ah
51.2V 105Ah



Slim
51.2V 105Ah



Blade
51.2V 175Ah
73.6V 175Ah

Battery Charger



State of Charge Meter



LCD Display



*LED Display

*LED Display Only included in 60Ah models

Mounting Brackets

+ Hardware



AC Charge Port



16ft Extension Cord



2 Gauge Power Cables



AC Charge Port Plates

+ Hardware



Recommended Tools

1. ⅜" Ratchet and Extension
2. Basic Socket Set
3. Open Ended Wrenches
4. Phillips Head Bits or Screwdrivers
5. Drill and Drill Bits
6. Hole Saw or Step Drill Bit
7. Wire Cutters and Crimper
8. Basic Small Gauge Wiring Supplies

Model Specific Tool Requirements

The following tools are required for certain cart models in addition to the standard recommended tool list. Review the section applicable to your vehicle before beginning installation.

Club Car Precedent/Onward/Tempo

Torx Driver Set

Basic Hex Key Set

Plastic Cutting Tool (If installing a Blade battery)

EZGO TXT

Basic Hex Key Set

Angle Grinder or Sawzall with Metal Cutting Blade (If installing a Nano or Blade battery)

**Additional tools may be required.*

Remove Factory Hardware

1. Turn key to off position and set parking brake. Block cart tires to prevent rolling.

2. Remove seat.

3. Switch Run/Tow switch located under seat to TOW position. (if your cart has a Run/Tow switch).

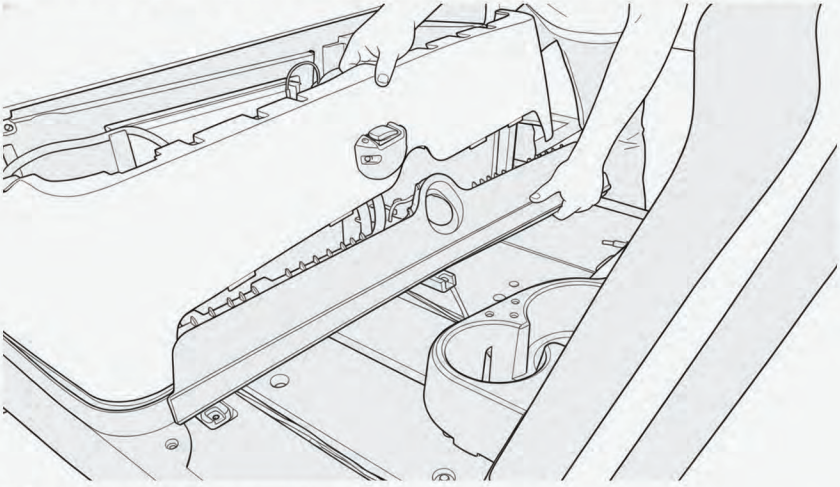
4. Take clear photos of the current battery bay and wiring so you can reference them later if needed. Mark the power wires coming off your controller and solenoid with masking tape so you can clearly identify positive and negative.

⚠ If your solenoid has a resistor installed, **do not** remove it. Leave the controller and solenoid configured as originally installed.

5. Check your cart or aftermarket battery owner's manual for the proper steps to safely remove the batteries before you move forward.

6. Thoroughly remove any debris and ensure the cart is clean and properly prepared before installing the new batteries.

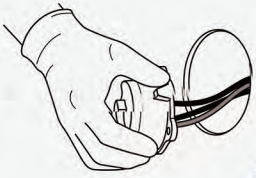
7. Remove any panels, floor mats, or seat base trim as needed to access the



8. Remove the OEM charge port.

9. Replace or reroute power cables.

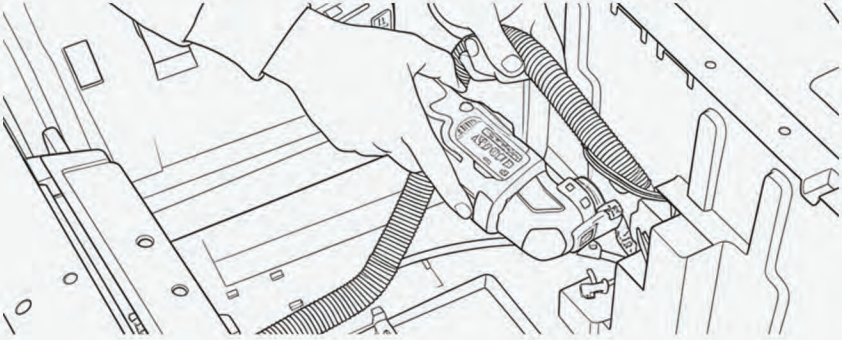
10. If your cart is equipped with an onboard computer, a bypass is typically required. Please refer to our online resources for specific instructions at ridemodz.com/modz-lithium-battery



Battery Compartment Modifications

11. Review the model specific instructions at ridemodz.com before beginning installation. Confirm mounting locations, cable routing, and any known clearance modifications for your cart.

12. Test fit the battery and brackets in the empty compartment to verify proper clearance. Some carts may require minor trimming, such as creating wire clearance near the controller or removing a hold down tab. Complete any necessary modifications and clean out all debris before proceeding.



Battery Bracket

13. Use the provided template to confirm placement. Use the included template to mock up the battery mounting location. Based on the template, determine whether the battery will be secured using the provided brackets or mounted directly, ensuring it is firmly and properly secured. If the bracket is not required, proceed to Step 17.

14. Place the mounting bracket or plate in the battery bay.

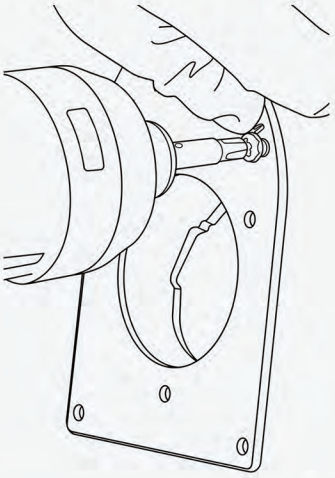
15. Mark holes and drill as required.

16. Bolt the mount down securely.

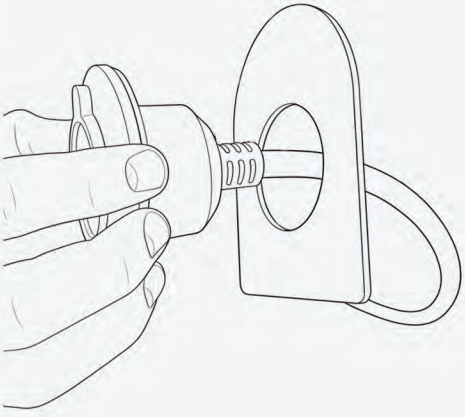


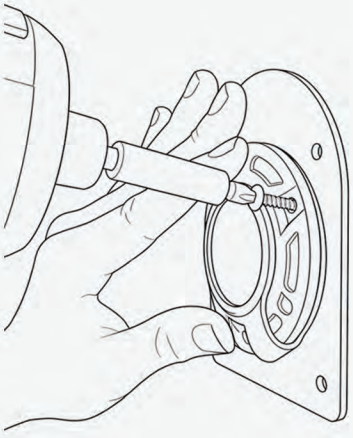
Charge Port Assembly

17. Install the MODZ charge cover plate in place of the OEM charge port using the four provided Phillips screws. If the Phillips screws do not secure properly, use the included hex screws with nuts instead.



18. Feed the port adapter through the charger cover and secure it using the three provided Phillips screws. The adapter cap can be oriented in the 2, 5, or 10 o'clock position.

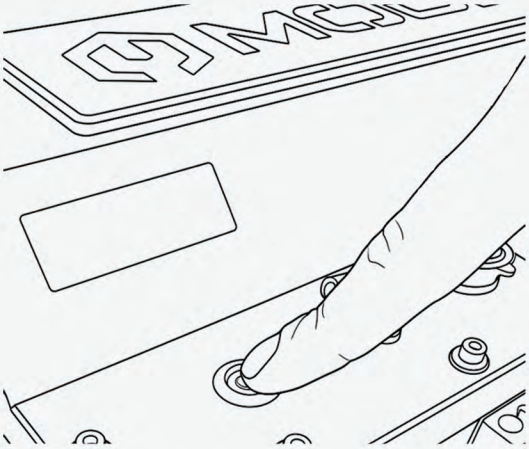




Battery Installation

⚠ **Important:** Please make sure your battery software is updated by following the steps on the ***Firmware Update Card*** and confirm the battery is working properly before starting the install.

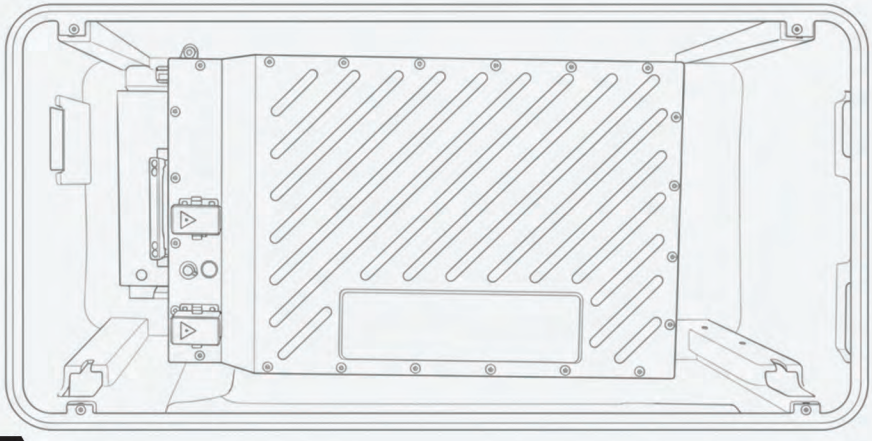
19. Confirm battery is OFF (power switch is located on the top of the battery)



20. Place battery on the mount (or in the marked location).

21. Bolt battery down using the kit hardware.

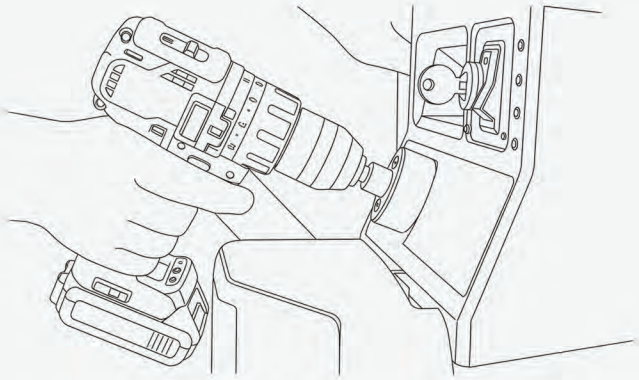
22. Make sure cable routing will not pinch when panels go back on.



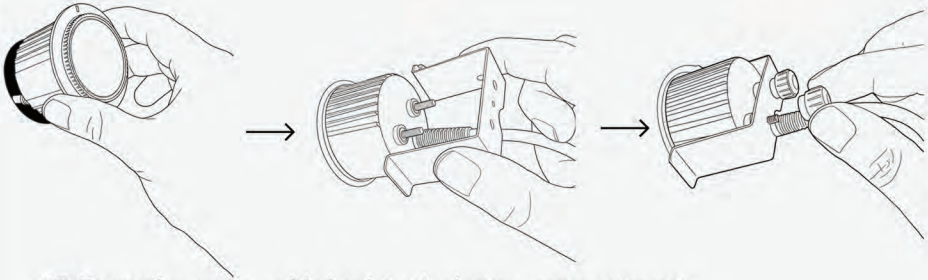
Battery Gauge Installation

23. Select a dash location with enough clearance behind it. If your cart has an existing battery gauge, consider using that spot for a clean look, though drilling may still be required, and you may need to remove the dash panel or cup holder for access.

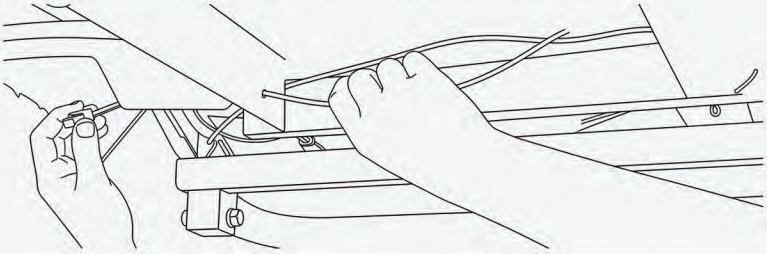
24. Drill the appropriate hole size for your gauge style. For the LED indicator, drill a 2 inch or 50 mm hole. For the LCD display, drill a 2.25 inch or 58 mm hole.



25. Insert the gauge through the newly drilled hole with the cable oriented toward the bottom. Hold it in place, position the included bracket behind the panel with the notch at the bottom resting over the cable, and secure it using the two provided thumb screws.



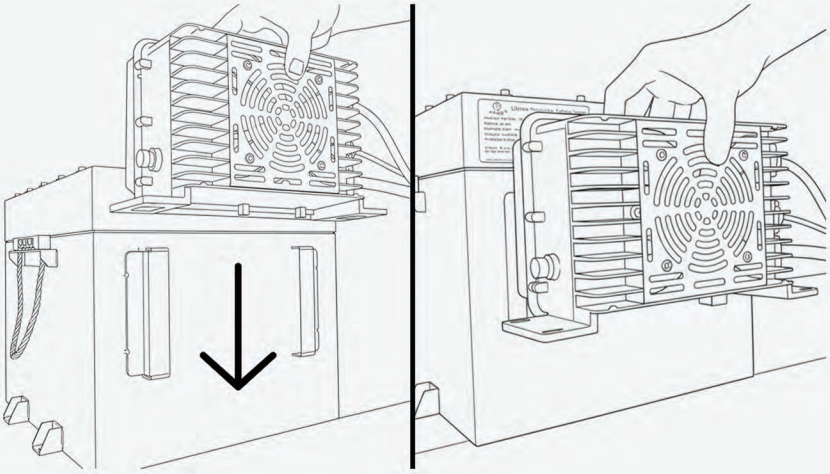
26. Route the gauge cable back to the battery compartment.



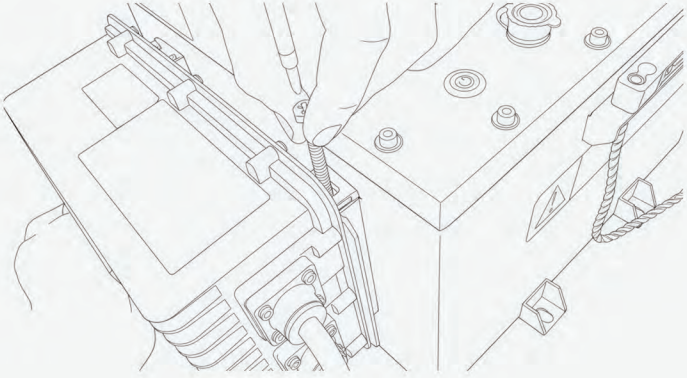
Charger Installation

27. Determine whether you will mount the charger within the battery compartment or directly on the battery using the onboard mount. If installing in a different location, skip to Step 30. If mounting to the battery, continue to the next step.

28. Slide the charger into the side of the battery.

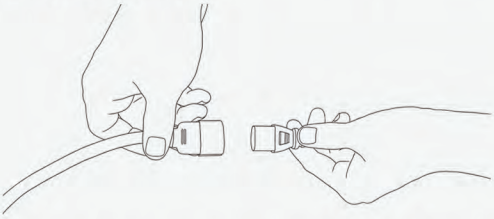


29. Align the two mounting holes on top of the charger and secure it to the battery using two 5/32 hex screws.



Battery Cable / Wiring Connections

30. Connect the charger power cable to the 3 prong AC power cord, then connect it to the charge port adapter.

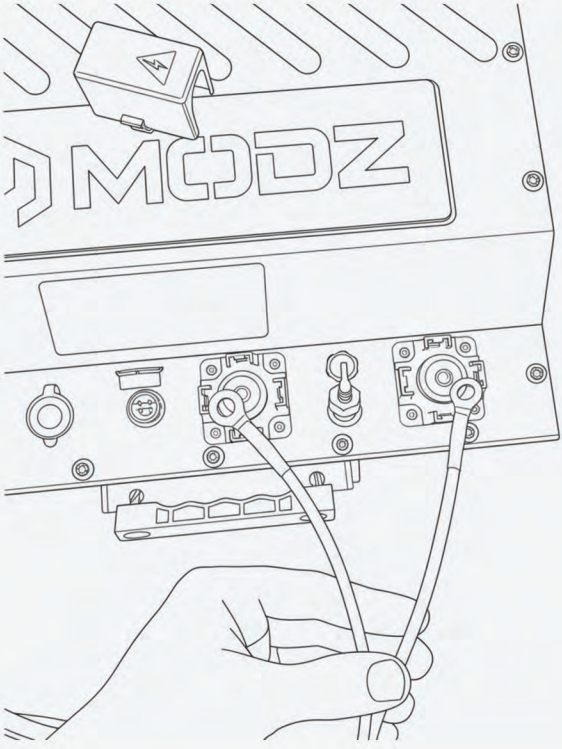


31. Remove positive (red) terminal cover. Connect main positive cable and charge positive to battery positive. (also connect the interlock lead, and reducer lead if applicable)

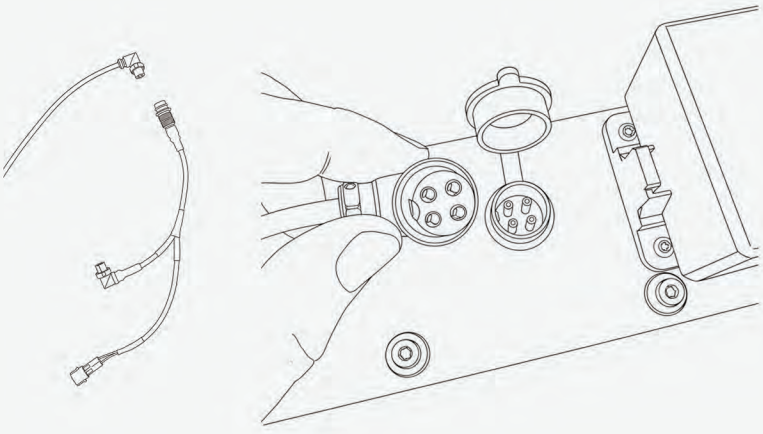
32. Reinstall positive (red) terminal cover.

33. Remove negative (black) terminal cover. Connect main negative cable and charge negative to battery negative.

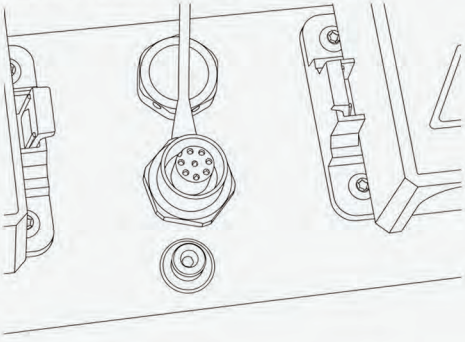
34. Reinstall negative (black) terminal cover.



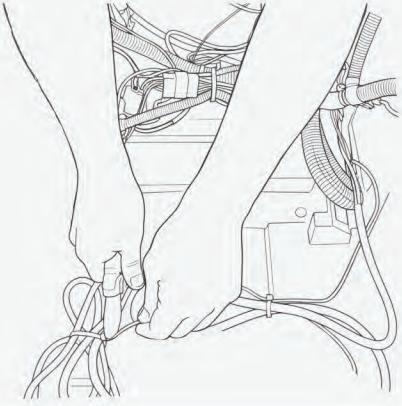
35. Connect CAN bus adapter cable to the battery and charger harness.



36. Connect the battery gauge cable (State of Charge meter) to the correct battery port (between the two battery terminals).



37. Secure all wiring with zip ties and keep it away from moving parts and sharp edges.



Reassemble Cart

38. Reinstall trims, kick panels, seat base, floor mat, and seat.

39. Double check nothing is pinched or rubbing.

Final Checks

40. Verify every connection is tight.

41. Verify polarity is correct.

42. Turn battery ON.

43. Flip Run/Tow to RUN (if applicable).

44. Key ON and test forward and reverse.

First Charge Procedure

45. Turn key to off position.

46. Turn battery ON.

47. Plug the extension cord into the cart first, then into the wall.

48. Let battery fully charge to 100% before first use.

49. Unplug from wall first, then unplug from cart.

For cart specific instruction manuals, videos, and additional battery resources, scan the QR code below or visit

ridemodz.com/modz-lithium-battery

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