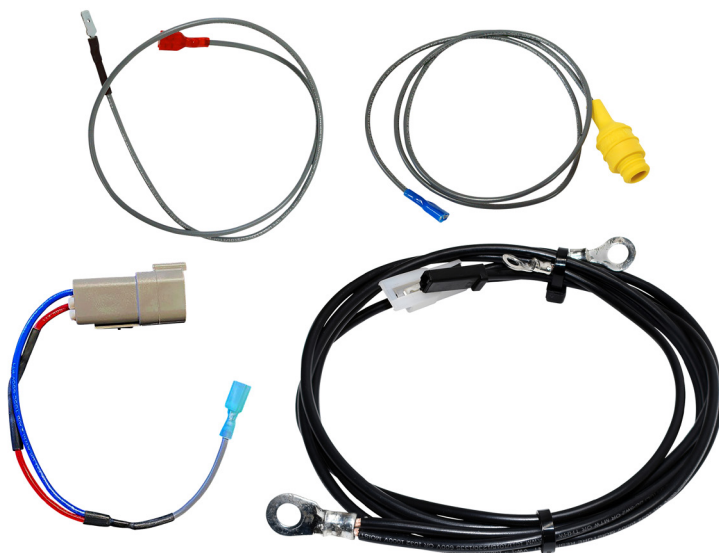




CGR-123

On Board Computer Bypass Club Car® IQ with 6-Pin Plug Installation Instructions



Caution: Please read through the instructions carefully. Installer is responsible for damage if instructions are not followed properly.

Note: The Red Hawk On Board Computer (OBC) Bypass kit is for use with Club Car® IQ Precedent and DS vehicles that either include an OBC or have had the OBC removed. Installation of the kit makes the vehicle wiring compatible with a battery charger that is designed for stand-alone use, without an OBC. Once the OBC Bypass Kit has been installed correctly, the OBC is no longer a functional part of the system. All OBC functionality will be disabled, including the dash light and future recordings of vehicle discharge/charge history information.

Charger Requirements: After installing the CGR-123 OBC Bypass Kit, the original charger that worked with the OBC will no longer work to charge the cart. A charger with a built-in microprocessor is needed.

Vehicle Lockout: When this kit is paired with a compatible charger, in addition to stand-alone battery charging, the option for vehicle lockout is available when the charger's DC plug (shelf unit) is connected to the vehicle's charging receptacle. If your application requires a built-in or on-board charger, the vehicle lockout will be provided when the charger's AC plug is connected to the AC receptacle. Follow the steps in this manual to enable the vehicle lockout feature.

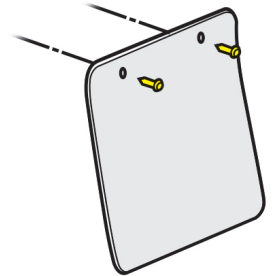
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Auxiliary Wiring for Club Car® Precedent IQ Golf Cars

1. Engage parking brake.
2. Turn key OFF.
3. Unplug the charger's DC cord from the cart's receptacle, if it is plugged in.
4. Remove the front seat bottom.
5. Place Tow/Run Switch in TOW.
6. Remove hardware and ALL wires from the negative (-) battery post on the last battery in the series or pack.
7. 2008.5+: Remove the access panel. Retain hardware.

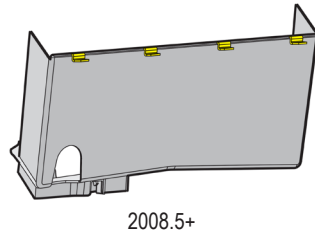
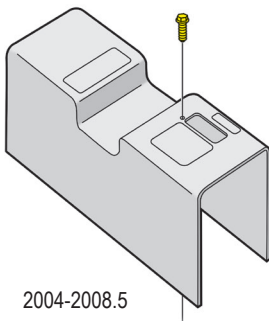
Safety Tip: Place a towel over the motor to protect against getting scratched on the motor terminals.



8. Remove the protective covering over the OBC, controller and solenoid.

2004-2008.5: This is located in the center of the battery compartment.

2008.5+: This is located behind the battery pack and can be accessed through the access panel.



9. Find and disconnect the single Packard connector which connects the vehicles charging receptacle to the OBC.

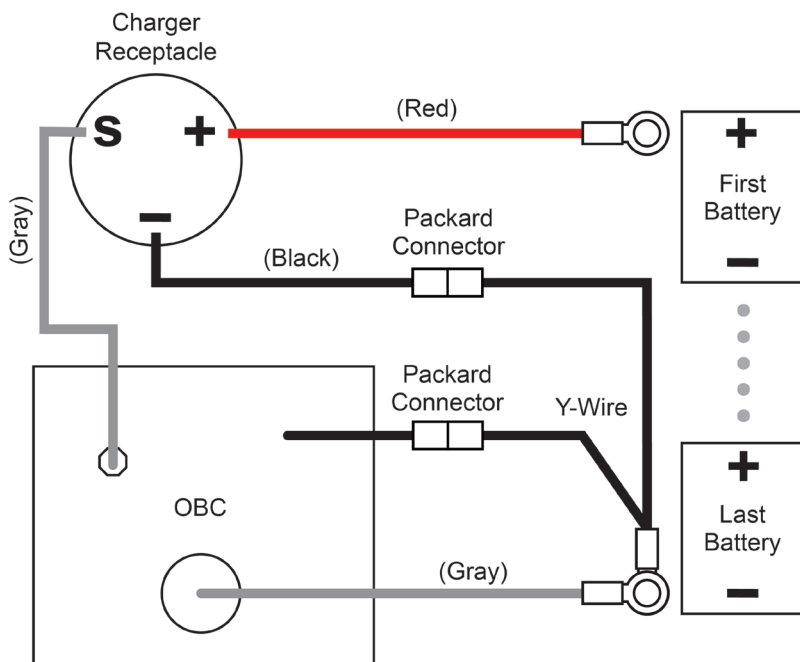
NOTE: The connector pictured is on the OBC.



10. Connect the supplied Y-shaped wire in the kit between the disconnected Packard connectors as shown below, making sure the connections are fully engaged. Route the ring terminal end of the wire assembly into the battery storage compartment.
11. To activate the Optional Vehicle Lockout / Inhibit Circuit feature, please continue the installation on Page 5.
12. Reinstall the protective cover over the controller and OBC area removed in Step 8.
13. Reinstall the access panel if removed in Step 7.
14. Connect the 5/16" ring terminal from the Y-shaped wire installed in Step 10 along with ALL wires previously disconnected in Step 6 to the negative (-) post on the last battery in the series/pack. Reinstall the hardware on the battery post. Hand tighten.

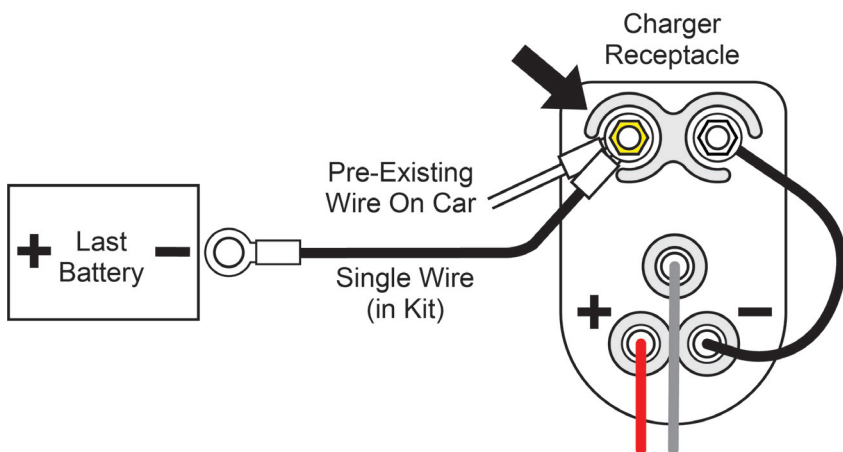
NOTE: Do not over tighten. Over tightening can damage the post on the battery. Refer to the battery manufacturer's torque specifications on battery hardware.

15. Place Tow/Run switch in RUN.
16. Reinstall the seat cushion.



Auxiliary Wiring for Club Car® DS IQ Golf Cars

1. Engage parking brake.
2. Turn key OFF.
3. Unplug the charger's DC cord from the cart's receptacle, if it is plugged in.
4. Remove the front seat bottom.
5. Place Tow/Run Switch in TOW.
6. Remove the nut from the fuse stud on the back of the DC receptacle per the diagram below (black arrow).
7. Locate the single wire with (2) ring terminals included in the kit. Attach the smaller ring terminal to the fuse stud on the DC receptacle. Reinstall the nut removed in Step 6 and torque to 22 in/lbs.
8. Remove the hardware from the negative (-) post of the last battery in the series/pack.
9. Place the larger ring terminal (5/16") of the single wire on the negative (-) post of the last battery in the series/pack per the diagram below.



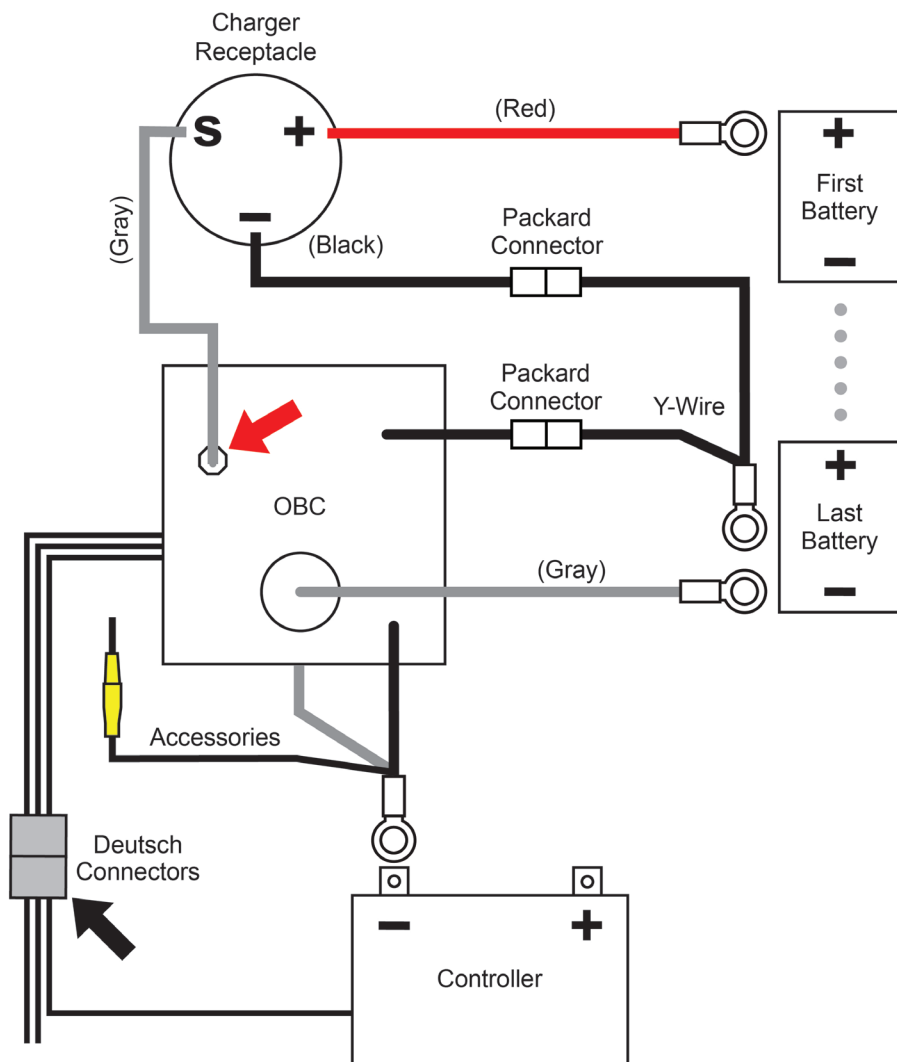
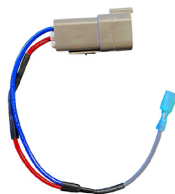
10. To activate the Optional Vehicle Lockout / Inhibit Circuit feature, please continue the installation on Page 7.
11. Reinstall the hardware on the negative (-) battery post. Hand tighten.

NOTE: Do not over tighten. Over tightening can damage the post on the battery. Refer to the battery manufacturer's torque specifications on battery hardware.

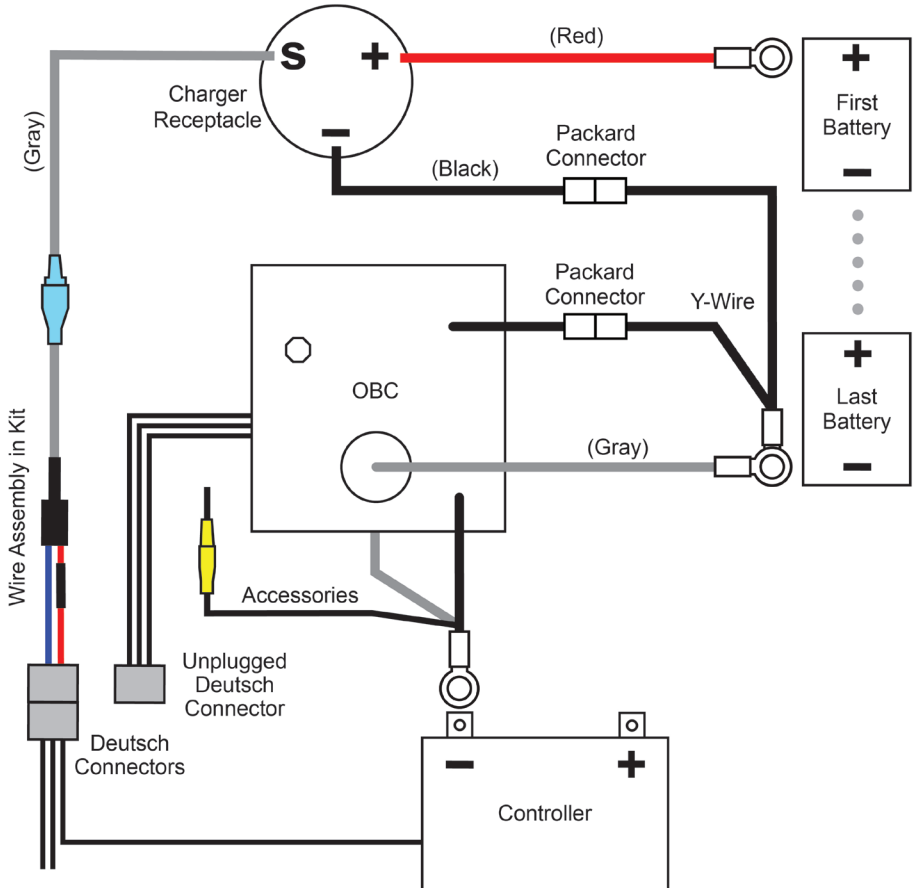
12. Place Tow/Run switch in RUN if equipped.
13. Reinstall the seat cushion.

Vehicle Lockout Option for Club Car® Precedent IQ Golf Cars

1. Disconnect the 6-pin Deutsch connector between the controller and OBC (black arrow).
2. Disconnect the gray wire from the charger receptacle at the OBC (red arrow).
3. Locate the included wire assembly pictured to the right.

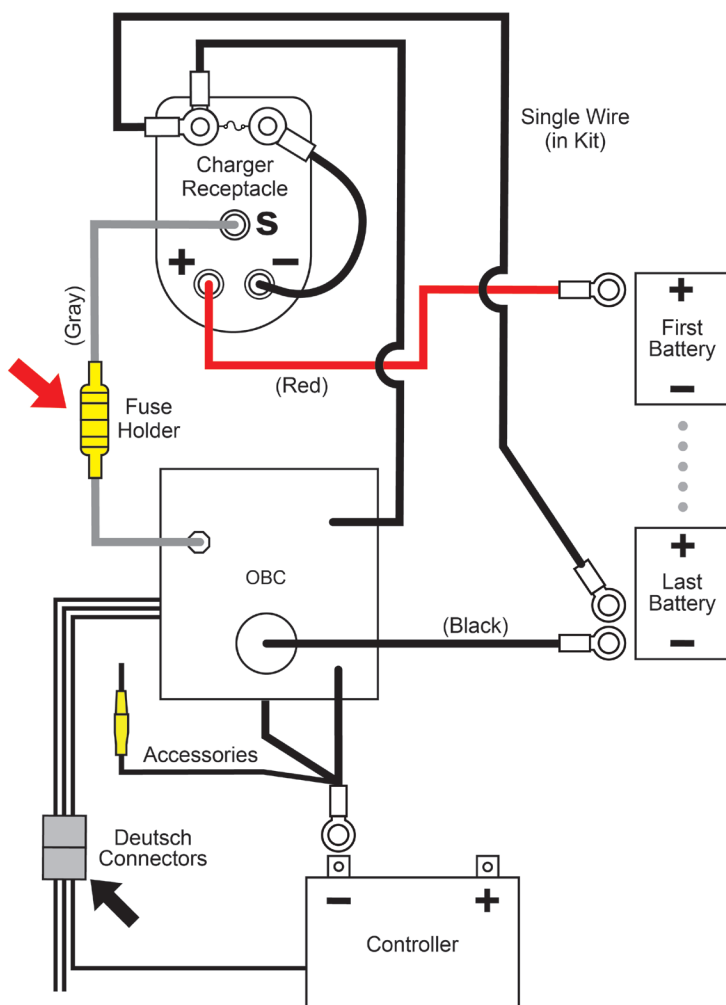
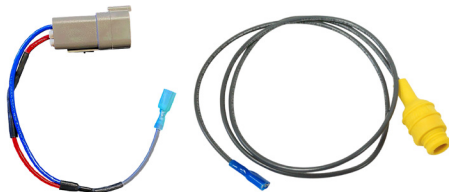


4. Connect the wire assembly between the charger receptacle and the wiring from the controller as shown in the diagram below.
 5. Reinstall the protective cover over the controller and OBC area removed in Step 8, Page 2.
 6. Reinstall the access panel if removed in Step 7, Page 2.
 7. Connect the 5/16" ring terminal from the Y-shaped wire installed in Step 10, Page 3, along with ALL wires previously disconnected in Step 6, Page 2, to the negative (-) post on the last battery in the series/pack. Reinstall the hardware on the battery post. Hand tighten.
- NOTE:** Do not over tighten. Over tightening can damage the post on the battery. Refer to the battery manufacturer's torque specifications on battery hardware.
8. Place Tow/Run switch in RUN if equipped.
 9. Reinstall the seat cushion.



Vehicle Lockout Option for Club Car® DS IQ Golf Cars

1. Disconnect the 6-pin Deutsch connector between the controller and OBC (black arrow).
2. Disconnect the yellow fuse connector on the gray wire between the charger receptacle and the OBC (red arrow).
3. Locate the (2) included wire assemblies pictured to the right.
4. Connect the (2) wire assemblies together at the spade connector.



- 5. Connect the new wire assembly made in Step 4 between the charger receptacle and the wiring from the controller as shown in the diagram below.
 - 6. Reinstall the hardware on the negative (-) battery post. Hand tighten.
- NOTE:** Do not over tighten. Over tightening can damage the post on the battery. Refer to the battery manufacturer's torque specifications on battery hardware.
- 7. Place Tow/Run switch in RUN if equipped.
 - 8. Reinstall the seat cushion.

