



OBC (On-Board Computer) By-pass Kit Installation Instructions

Lester Electrical By-pass Kit #38836 for use with Club Car® Precedent and DS vehicles

The Lester Electrical OBC (On-Board Computer) Bypass Kit is for use with Club Car® 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 Lester Electrical battery charger that is designed for stand-alone use without an OBC. Once the OBC Bypass Kit has been correctly installed, the OBC is no longer a functional part of the system (note: all OBC functionality will be disabled, including the dash light and future recording of vehicle discharge/charge history information). When the kit is paired with a compatible Lester Electrical charger, in addition to stand-alone battery charging, vehicle lockout is also provided when the charger DC plug is connected to the vehicle charging receptacle.

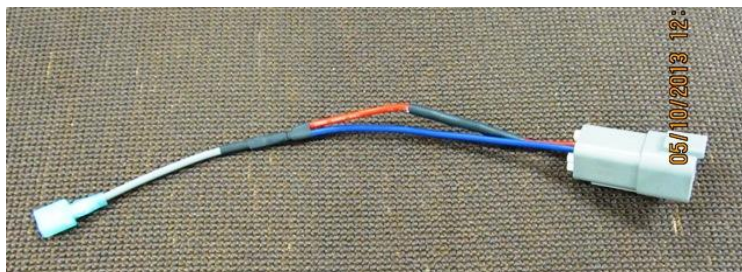
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Section I – Precedent

These instruction instructions explain the procedure to modify a Club Car® Precedent golf car so it can be used with a stand-alone (non-OBC) Lester Electrical battery charger. This style of charger does not use the On-Board Computer (OBC) mounted on the golf car. This procedure demonstrates how to convert the golf car without removing the OBC. If the OBC has already been removed, please skip the steps referring to the OBC. There will be two wire assemblies added which are referred to as "Wire Assembly A" and "Wire Assembly B" (pictured below). See the wiring diagram below for reference when disconnecting the OBC and adding the wire assemblies.

Reference Pictures:

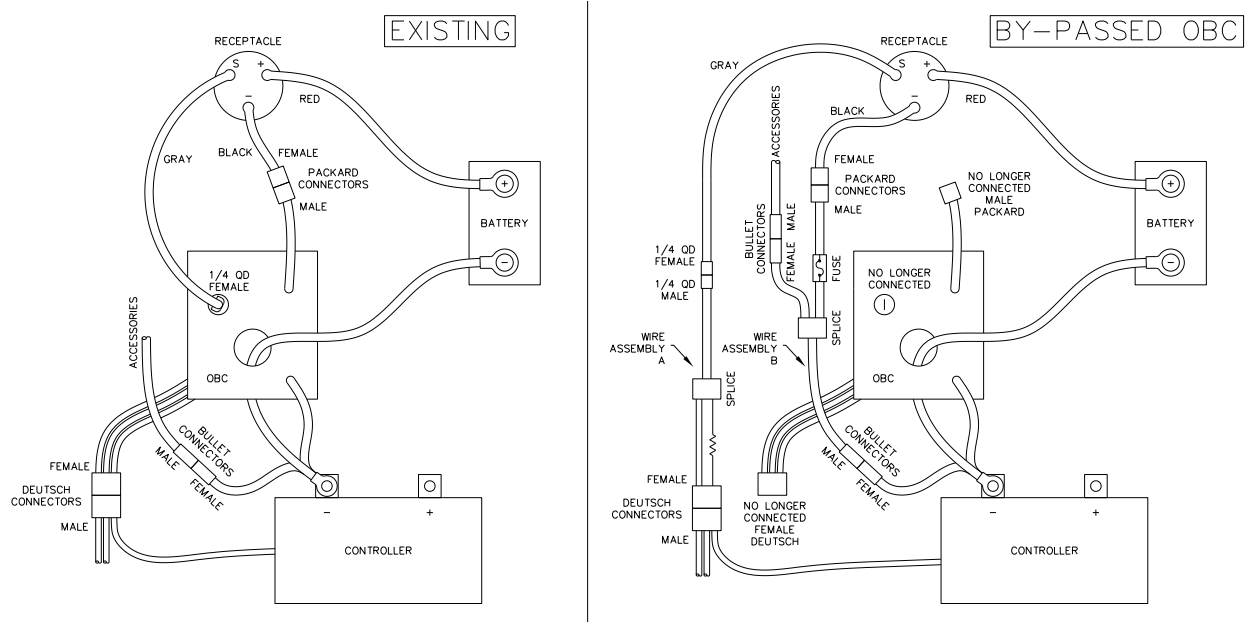
Wire Assembly "A"



Wire Assembly "B"



Simplified Wiring Diagram:



Procedure:

1. Lift the seat on the golf car and set the switch from RUN to TOW.



Set to TOW

2. Remove the wire from the NEGATIVE (-) battery terminal of the whole battery set.



3. Remove the access panel in the golf club bag storage well area on the back of the car and cover the motor with a towel to protect yourself from getting scratched on the motor terminals when reaching into the cavity.



4. Open the plastic protective covering at the back of this cavity which covers the OBC, controller, solenoid, and other parts.



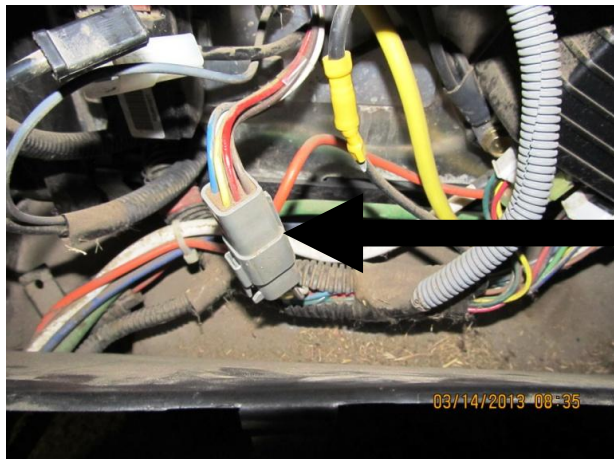
Plastic cover

5. Find and disconnect the single Packard terminal which connects the charging receptacle to the OBC.



Packard connector

6. Find and disconnect the 6-pin Deutsch connector which connects the golf car to the OBC.



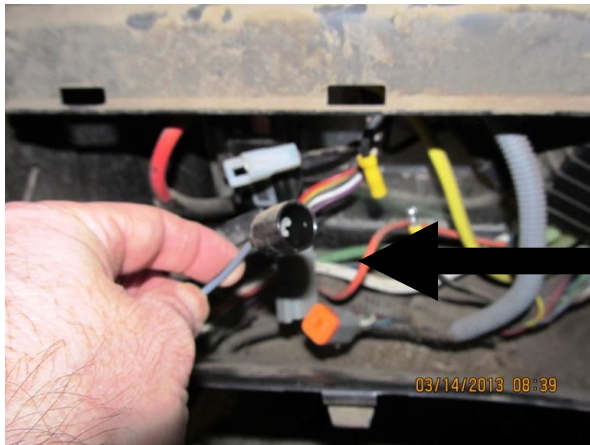
Deutsch connector

7. Find and disconnect the bullet connector used to power the golf car accessories.



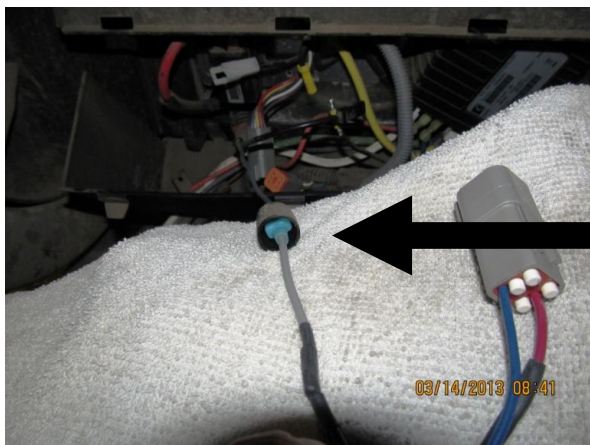
Bullet connector

8. Find and disconnect the Quick Disconnect (QD) connector with the rubber boot which is attached directly to the OBC.



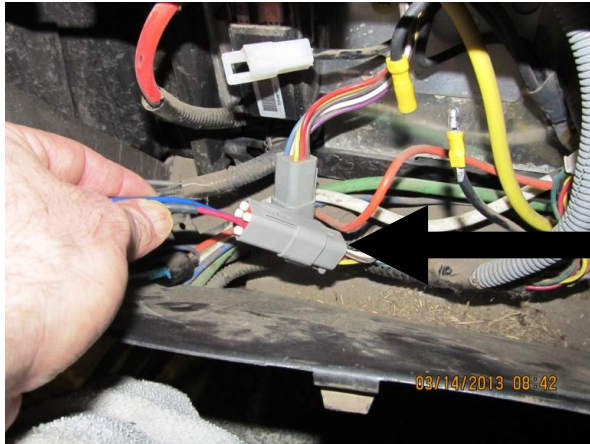
QD connector

9. Connect the new "Wire Assembly A" to the QD terminal removed from the OBC in step 8.



Connect "Wire Assembly A"
to QD connector

10. Connect the "Wire Assembly A" 6-pin Deutsch connector to the golf car.



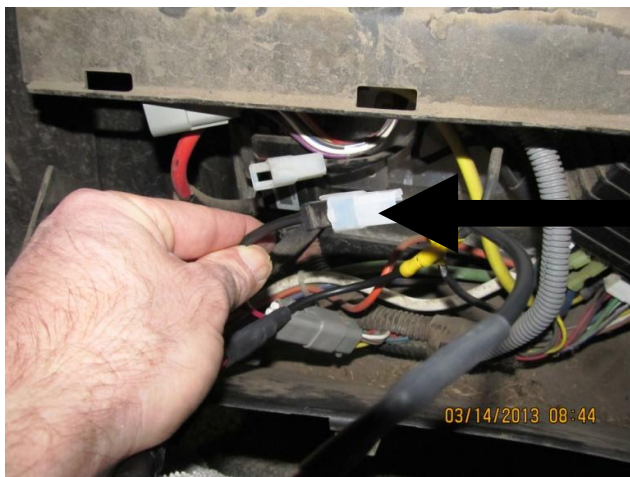
Connect "Wire Assembly A" to Deutsch connector

11. Connect the "Wire Assembly B" male bullet connector to the golf car female bullet connector.



Connect "Wire Assembly B" to female bullet connector

12. Connect the "Wire Assembly B" female Packard connector to the golf car male Packard connector.



Connect "Wire Assembly B" to Packard connector

13. Connect the "Wire Assembly B" female bullet connector to the golf car male bullet connector.



Connect "Wire Assembly B"
to male bullet connector

14. Route the wires so they are inside the plastic protective covering as shown in the picture above. There will be three connections on the OBC which are no longer connected-single male Packard connector, 6-pin Deutsch connector, and QD connector on the OBC itself.

15. Close the protective cover.



16. Remove the towel and close the access panel in golf club bag storage well.



17. Reconnect the NEGATIVE (-) battery terminal of the whole battery set.



18. Set the switch from TOW back to the RUN position.

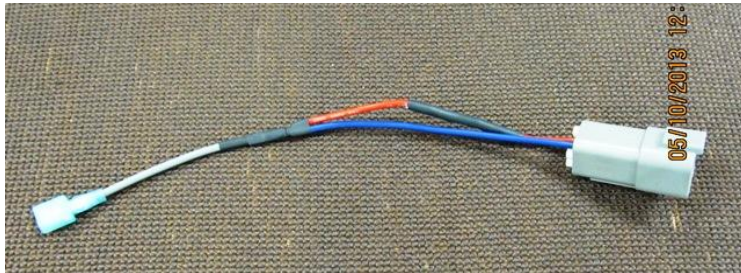
19. The golf car is now ready to be used with a stand-alone (non-OBC) battery charger. The OBC is no longer a functional part of the system.

Section II – DS

These instruction instructions explain the procedure to modify a Club Car® DS golf car so it can be used with a stand-alone (non-OBC) Lester Electrical battery charger. This style of charger does not use the On-Board Computer (OBC) mounted on the golf car. This procedure demonstrates how to convert the golf car without removing the OBC. If the OBC has already been removed, please skip the steps referring to the OBC. There will be two wire assemblies added which are referred to as "Wire Assembly A", "Wire Assembly B", "Wire Assembly C" and "Wire Assembly D" (pictured below). See the wiring diagram below for reference when disconnecting the OBC and adding the wire assemblies.

Reference Pictures:

Wire Assembly "A"



Wire Assembly "B"



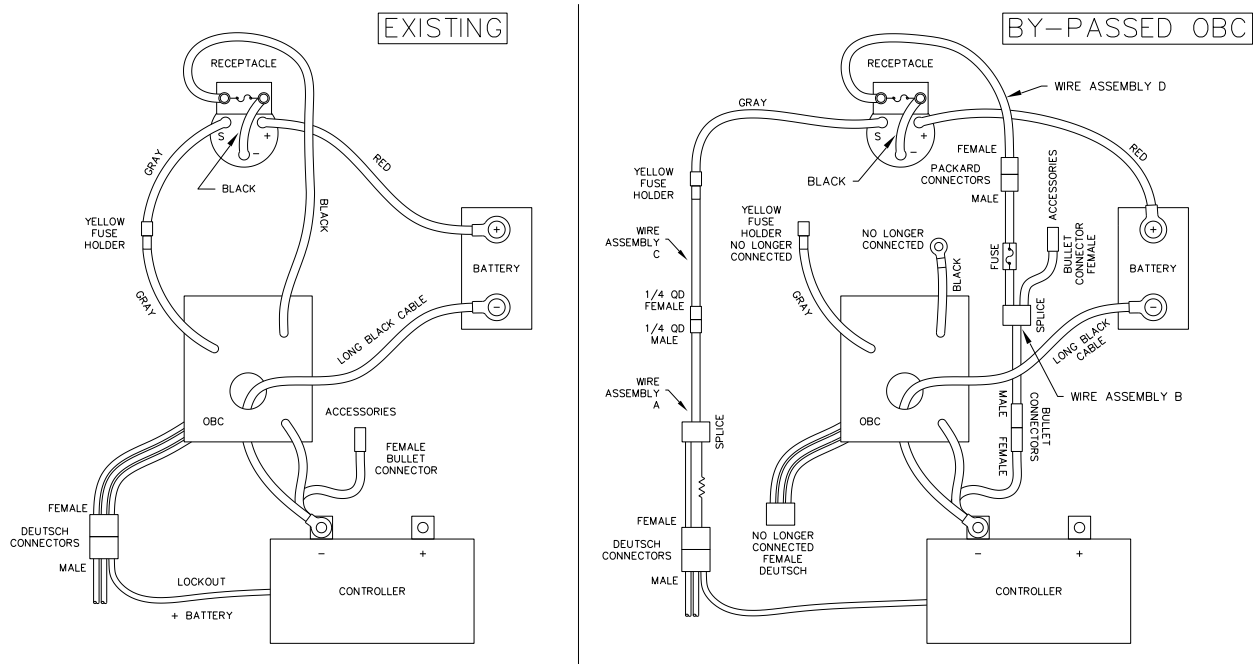
Wire Assembly "C"



Wire Assembly "D"



Simplified Wiring Diagram:



Procedure:

1. Lift the seat on the golf car and set the switch from RUN to TOW.



2. Remove the two Black cables from the NEGATIVE (-) battery terminal of the whole battery set.



3. Remove the access panel near the golf club bag storage well area on the back of the golf car.

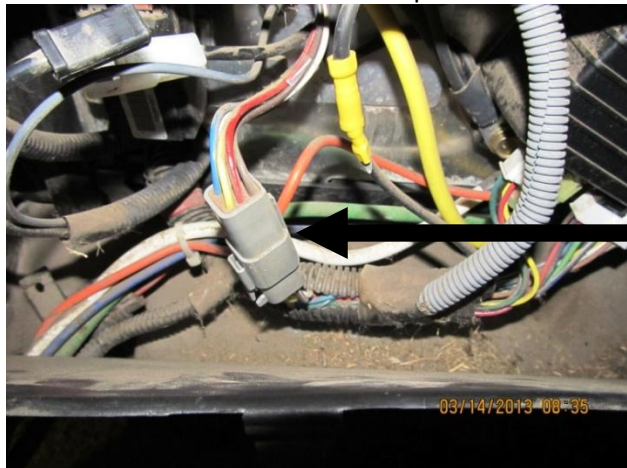


4. Find and disconnect the single Packard terminal which connects the charging receptacle to the OBC.



Packard connector

5. Find and disconnect the 6-pin Deutsch connector which connects the golf car to the OBC.



Deutsch connector

6. Find and disconnect the bullet connector used to power the golf car accessories.



Bullet connector

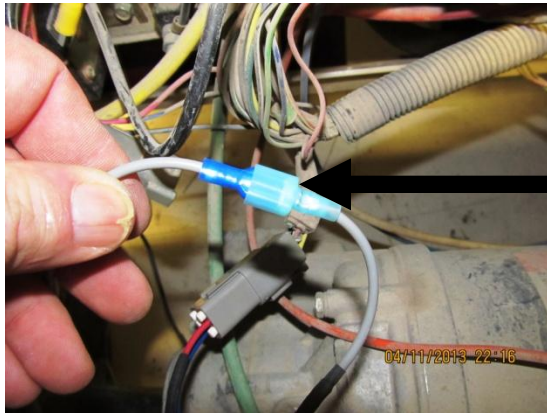
7. Find and disconnect the Yellow fuse holder, (Gray wire) which can be found near the Charging receptacle. This wire will be replaced by the new "Wire Assembly C" in a later step.



8. Find and disconnect the ring terminal for the 10AWG black wire from the back of the charging receptacle. This wire leads to the OBC located at the rear of the golf car. It will be replaced by a new assembly "Wire Assembly D" in a later step.



9. Connect the new "Wire Assembly C" blue female QD terminal to the new "Wire Assembly A" male QD terminal.



Connect "Wire Assembly C"
and "Wire Assembly A" QD
terminals

10. Connect the "Wire Assembly A" 6-pin Deutsch connector to the golf car.



Connect "Wire Assembly
A" to Deutsch connector

11. Connect the "Wire Assembly B" male bullet connector to the golf car female bullet connector.



Connect "Wire Assembly B"
to female bullet connector

12. Connect the "Wire Assembly B" female Packard connector to the new male Packard connector on "Wire Assembly D".



Connect "Wire Assembly B" and "Wire Assembly D" Packard connectors

13. Connect the "Wire Assembly B" female bullet connector to the golf car male bullet connector used for accessories.



Connect "Wire Assembly B" to male bullet connector

14. Route the "Wire Assembly D" black wire with ring terminal to the charging receptacle and connect as shown. Torque the nut to 22 in-lbs



Connect "Wire Assembly D" to charging receptacle.
Torque the nut to 22 in-lbs.

15. Route the new gray wire "Wire Assembly C" yellow fuse holder to near the charging receptacle. Use the existing fuse removed in step 7 and connect the two halves of the fuse holder. Wire tie "Wire Assembly C & D" to the golf car as required to restrain the loose wires.



16. Check all connections and restrain all loose wires with wire ties before replacing the access panel on the rear of the golf car.



17. Reconnect the two black cables to the NEGATIVE (-) battery terminal of the whole battery set.



18. Set the switch from TOW back to the RUN position.
19. The golf car is now ready to be used with a stand-alone (non-OBC) battery charger. The OBC is no longer a functional part of the system.