

Over riding the OBC in a Golf Cart for Charging Purposes

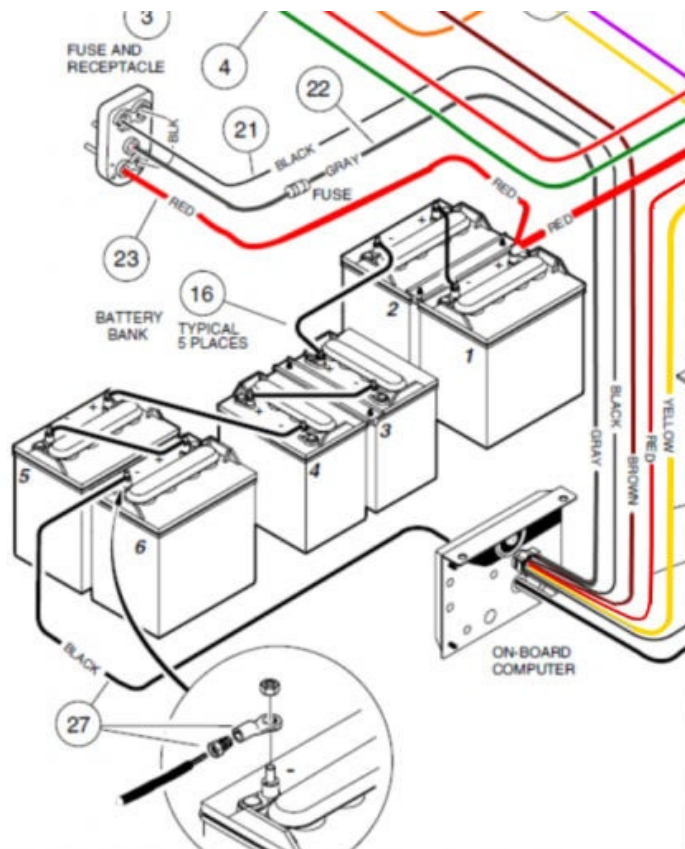
Some model Clubman have a OBC (On Board Computer) which requires the genuine Clubman charger. If your Delta Q shows an E013 Alarm on installation, it may be due to the OBC.

Alarm	E013	Charger Output Current Not Accepted	Battery voltage is detected but the charger is unable to output current. This is normally caused by an electrical device connected between the charger and the battery which passes through voltage but not current. Poor connections can also cause this. Ensure the charger is properly connected to approved equipment. This error will automatically clear once the charger is reset by cycling DC or AC.
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Instructions for 'How to override the OBC'

This image is of a 48 volt Club Car golf cart wiring diagram. You can clearly see three sets of batteries each of which is 8 volts. The batteries are numbered 1 through 6 and connected in series (positive to negative) to create the needed 48V output. In the lower right corner, you will see all the wiring running through the on-board computer. The upper left corner depicts the backside of the charge receptacle.

Now look at battery number 6 in the lower left corner. To bypass the OBC you will need to connect a 12-gauge black wire from the negative terminal of this battery to where the black wire attaches to the back of the receptacle. That's it folks; you are done!



Your charger should now be able to sense voltage and properly charge the cart. The Layman's science for what you just accomplished is easy: you created a circuit or a loop. Notice how there was a red positive wire coming off battery #1 going directly to the back of the receptacle? But before you added this bypass there was no negative black wire coming directly from the battery bank to the back of the receptacle. It had to first go through the onboard computer before reaching this location.