



T.I.P. Troubleshooting Information on Power Gear

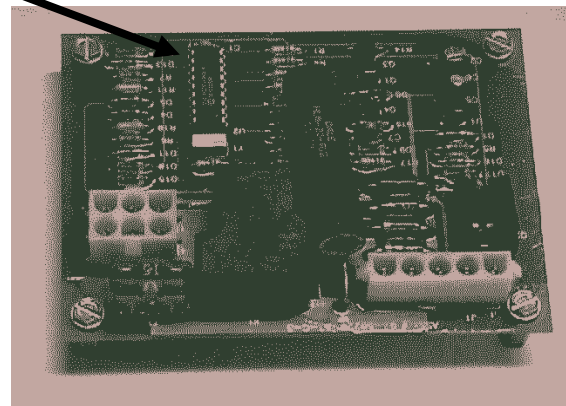
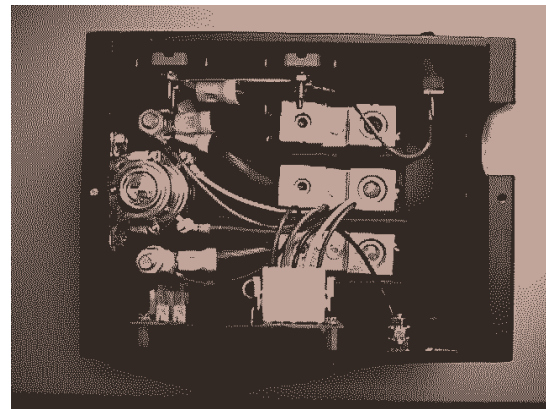
BATTERY CONTROL CENTER MICRO-CONTROLLER REPLACEMENT

WARNING: ONLY A QUALIFIED TECHNICIAN SHOULD DO THE FOLLOWING!

The micro-controller is an Integrated Circuit chip (IC) which has the software logic to run the battery control center. The latest IC chips have a sticker on them (BCCV2.03) designating the chips software version.

To replace the IC from the Battery Control Center (BCC) printed circuit board assembly, do the following:

1. Locate the BCC box and coach disconnect switch in the second to last storage compartment on the curb-side of the coach.
2. With the ignition in the off position and no load on the batteries, turn the coach disconnect switch to the off position.
3. Remove the two wing nut screws from the BCC box and remove the cover.
4. Locate the printed circuit board in the lower left side of BCC box.
5. Remove 5-pin and 6-pin wire harness connectors from the circuit board.
6. Remove 4 screws on bottom side of BCC that hold the circuit board in place. (See picture)
7. Carefully slide circuit board out of BCC box and place on a clean flat surface.
8. Locate the micro-controller IC (marked U2 on the circuit board) in the IC socket holder.
9. Carefully with a thin, narrow, clean, flat head screwdriver, remove the micro-controller IC from the socket.
10. Install the new micro-controller IC in same socket. The IC is direction dependent. There is a U-shaped indentation on the IC (there may be a sticker on the IC that could be covering the indentation). The U-shaped indentation must be facing the component labeled Y1 and the black relay (not the component labeled C1). Carefully insert the IC by lining up the micro's pins to the socket and pressing IC into the socket.
11. Visually inspect that all micro-controller pins are properly seated in the socket and that the indentation is in the proper direction. Re-install circuit board by reversing steps 1 - 7 and test the BCC for proper operation once complete.





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