

Soldering Broken Rotor Wire

This bulletin covers the following Champion Power Equipment models:

2,800w – 9,500w Generator

Note: Read instructions completely before performing service.

1. Remove end cover (round yellow cover) held on with two 7mm socket head bolts
2. Locate brush assembly at about 11 o'clock position. Has a red or blue wire with a band showing a positive (+) sign on it, the black, white, or yellow is on the RH side of the red wire. Below the red or blue wire, there is an 8mm bolt to remove and a metal stabilization plate with it having a positive (+) mark and a negative (-) mark stamped in it.
3. Remove the brush assembly from the hole and carefully inspect for any damage. It will look uniform if it is all right. If the brushes are significantly different in length then they should be replaced.
4. Now by looking into the cavity made by the brush holder being removed, you can inspect the soldered contact wires on the slip rings that are used to contact the brushes. You may find that one of the two soldered connections has broken. It is usually difficult to see, so be sure to try to move them to be able to determine if there is a break in one of the connections. Each will be soldered on a single connection and attached at the brass slip ring. Each will be 180 degrees apart. One on each slip ring.
5. By re-soldering the connection with a pistol type soldering gun, you can reach the connection easily. If you find that the gap is too significant, you can place a similar piece of copper wire along side of the original wire. This repair has proved reliable since the fix does not crystallize the contact point as originally happened.

If you have any questions, please contact Champion Power Equipment:

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