





CoilJet™ CJ-95 Troubleshooting Guide

Sept 25, 2009

In the event the CoilJet™ CJ-95 abruptly stops working or fails to turn on:

- 1) **Check Battery** - Open the battery compartment, remove the battery and disconnect the battery wires. Check the battery voltage with a volt meter – it should be between 11 and 14 volts. If the battery voltage is less than 11 volts, battery needs to be recharged (see **Fully Charge Battery** section).
- 2) **Check Fuse** - Remove the six (6) screws on the bottom of the unit and remove bottom cover. Open the yellow fuse holder and remove the fuse. Check fuse for integrity and make sure endcaps are secure. Use a continuity or ohm meter on the fuse – resistance should be zero. Replace if it is blown, does not have continuity, or shows high resistance (greater than zero). 
- 3) **Check Main Switch**
 - a) Toggle On/Off switch back and forth a few times to cycle switch contacts. Check the On/Off switch for corrosion damage from chemical or water infiltration.
 - b) Remove wiring from switch and clean terminals. Put switch in “On” position (I) and check terminal contacts and operation with a continuity or ohm meter. If switch does not have continuity or shows high resistance it must be replaced.
 - c) Clean wire terminals and replace on switch in correct locations - make sure all connections are secure.
- 4) **Check Wiring** - Check all wiring (terminal connections, fuse, charger jack, etc) for any loose or broken connections, corrosion, or damage. Use a continuity or ohm meter to check wire integrity between battery and switch.
- 5) **Check Battery Charger**
 - a) Plug the battery charger into a wall outlet. **DO NOT PLUG INTO THE UNIT YET.** The light on the charger should be green – if it is flashing red quickly the charger needs to be replaced.
 - b) If the light is green, check battery charger output voltage with a volt meter. One probe should go into the barrel of the plug, one should be on the outside metal part of the plug barrel. The voltage should be between 12 and 14 volts – if it is not, charger needs to be replaced.
- 6) **Check Battery Wires** - Plug the battery charger into a wall outlet, then into the charger jack on the on the CJ-95. Open the battery compartment, remove the battery, and disconnect the battery wires from the battery. Check the voltage at the wires – it should be between 12 and 14 volts. If there is no voltage at the wires, see **Check Wiring** and **Check Fuse** sections.
- 7) **Fully Charge Battery**
 - a) Open the battery compartment and make sure the battery wires are correctly and securely attached to the battery. Plug battery charger into a wall outlet, then into the charger jack on the unit. The light on the charger should be a steady red (if the charger is flashing red slowly, it is de-sulfating the battery, this is ok). When the battery is fully charged, light will turn steady green.
 - b) Once the battery is fully charged, check the battery voltage. Open the battery compartment, remove the battery, and disconnect the battery wires from the battery. Check the battery voltage with a volt meter – it should be between 12 and 14 volts. If the battery does not hold a charge, it needs to be replaced.