SMD TROUBLESHOOTING GUIDE

PROBLEM: The SMD Ring is not bright.

- Check your ground. The ground should be as short as possible and connect to a clean and strong metal ground point.
  - **Solved!** The LED Halo Rings need an ideal ground to perform properly.
- Start the vehicle. Many times the battery voltage on a vehicle can drop below the optimal point and cause the rings to appear dim.
  - **Solved!** The SMD Halo rings are designed to work on a 12V vehicle system so these need a minimum of 12V DC.
- Use a voltage tester to check the voltage at the SMD ring input (red and black wires) be sure there is a minimum of 12V DC.
- Check your connections. Be sure there are no areas where the wiring could have shorted or come loose from the connection.
  - **Solved!** Current will follow the path of least resistance and rob power from the ring. Repair any loose or bad connections.
  - If using a remote or other controller with the Halos remove this and test power directly to the ring to rule out other problems.
    - **Solved!** issue was caused by faulty controller. See controller troubleshooting.
    - Use a voltage tester to check the voltage at the SMD ring input (red and black wires) be sure there is a minimum of 12V DC.

PROBLEM: The SMD Ring is not turning on.

- Trace back your power and ground wires and insure good connection is being made.
  - **Solved!** Connection Issue. Repair any loose or bad connections.
- Check your in-line fuse. All power connections should be fused, be sure the fuse is not tripped.
  - **Solved!** Replace the fuse.
- Check ring to see if power wires are making good contact
  - One of the wires has become disconnected from the ring.
    - **Solved!** Solder the loose wire back onto the circuit board solder pad. This will restore power to the ring.
  - Wires are connected but are touching each other causing a short.
    - **Solved!** Untwist the wires so that no contact is being made between the bare power wires.

PROBLEM: Sections of the LEDs are not illuminating.

- Was the 3M tape removed from the back of the ring?
  - Removing the tape can cause a dead short and make sections turn off. Remove the ring and bench test.
- Is there epoxy or adhesive visible where the short is? Epoxy is conductive use heat gun to remove it.
- The resistor on the back of the ring has come loose or has a poor contact.
  - **Solved!** Use a solder iron to press on the resistor to allow it to reconnect to the circuit board.

ORACLE Lighting SMD Products are Guaranteed Against Manufacturer defects. This does not cover damage from modification or improper installation. If damage or installer error does occur replacement parts can be purchased at a discounted price please call 1(800)407-5776 or email info@oraclelights.com for warranty information or to purchase replacement parts.

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