TECH TIPS

Service Call:

Diode Testing

Tools Needed:

Screw Driver
Digital Multi-meter

Model:

All Genie Products

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TECH TIPS

Tech Tips Safety Rules

Danger

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

Step 1

Remove the diode and isolate it from the circuit.

This is done by either disconnecting it from the terminal strip or by removing the retaining screw(s) from the switch or contact block.

For further information on how to remove the diode from the terminal strip please see the terminal strip Tech Tip.
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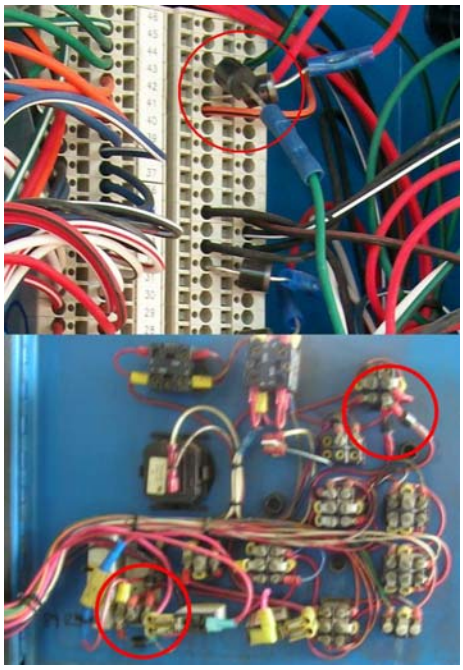

Step 2

Familiarize yourself with your multi-meter.
Turn your multi-meter on to the Ohms/Continuity setting.

A) Separate the positive and negative leads; the display should say OL or OPEN depending on your brand of multi-meter.

B) Connect the positive and negative leads together; the display on the multi-meter should now say approximately 00.00 or SHORT depending on the brand of multi-meter.

If your test results do not match A) and B) STOP and consult Multi-Meter's owner's manual for further instructions.

Step 3

Connect the digital multi-meter to the diode as shown in the picture with dial on the meter in the position selected in step 2.

A) If the display shows approximately 00.00 ohms proceed to Step 4.

B) If the display shows OL this indicates a diode that has failed open, not allowing current to flow.

When replacing the diode and pay particular attention to the orientation of the silver stripe on the diode, make sure it matches the existing diodes stripe orientation.

Step 4

Connect the digital multi-meter to the diode as shown in the picture with dial on the meter in the position selected in step 2.

With a successful test in Step 3:
A) If the display shows OL in this connection configuration the diode is good.

B) If the display shows approximately 00.00 ohms in this configuration the diode has failed shorted, allowing current to flow in both directions.

When replacing the diode and pay particular attention to the orientation of the silver stripe on the diode, make sure it matches the existing diodes stripe orientation.