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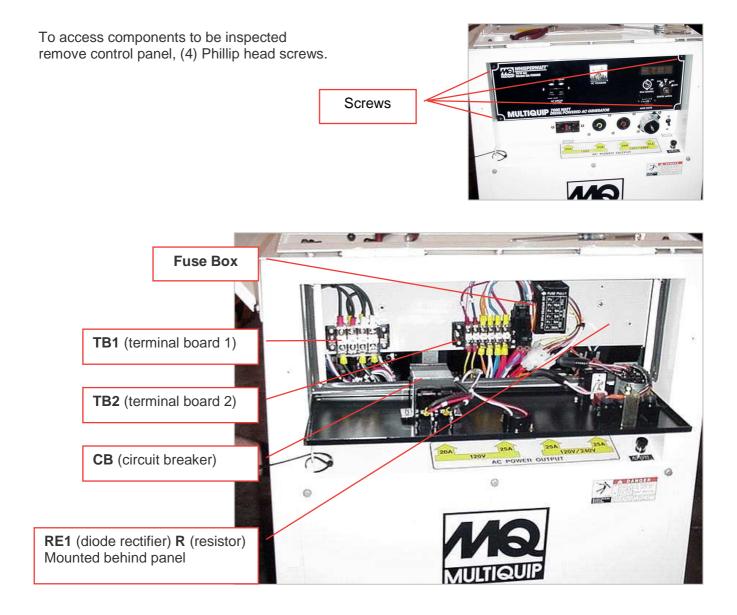
# **DA7000 Voltage Diagnostic**

This documentation can be used as a guide when inspecting and diagnosing failure associated with the AC voltage output on the DA7000 series generator.

Use of an accurate multi-meter is necessary when inspecting the generator.

Safety precautions should be followed at all times when servicing this equipment. Consult operations manual for more safety information.

## **Component Identification and Location**

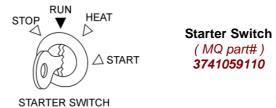


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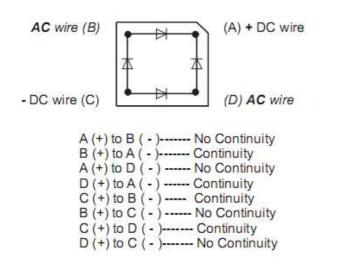


#### Check the following with the engine off!

- Inspect F4 fuse, (see page 3).
- Inspect (J) terminal on TB2 for 12V DC when starter switch key is in the run position, (see page 3).



- Inspect for loose wires, contacts, or damaged receptacles, starter switch, & circuit breakers.
- Remove J-K bottom yellow wires from TB2 (stator excitation windings) perform a resistance test, (see page 3).
  Resistance specification: 1.63 ohms
- Perform a resistance test between stator windings wires U1 to V1 and U2 to V2 Resistance specification: .16 ohms (located at TB1)
- NOTE: Before performing resistance test always disconnect and isolate the wires to be tested. Resistance (nominal reading ± 10%) When checking resistance also check each wire for continuity to ground for open circuits.
- Perform a resistance test on the 'R' resistor Resistance specification: 10 ohms (see page 4)
- Inspect RE1 diode rectifier for continuity/no continuity as shown below.
  (Disconnect the leads to properly check the rectifier & resistor)



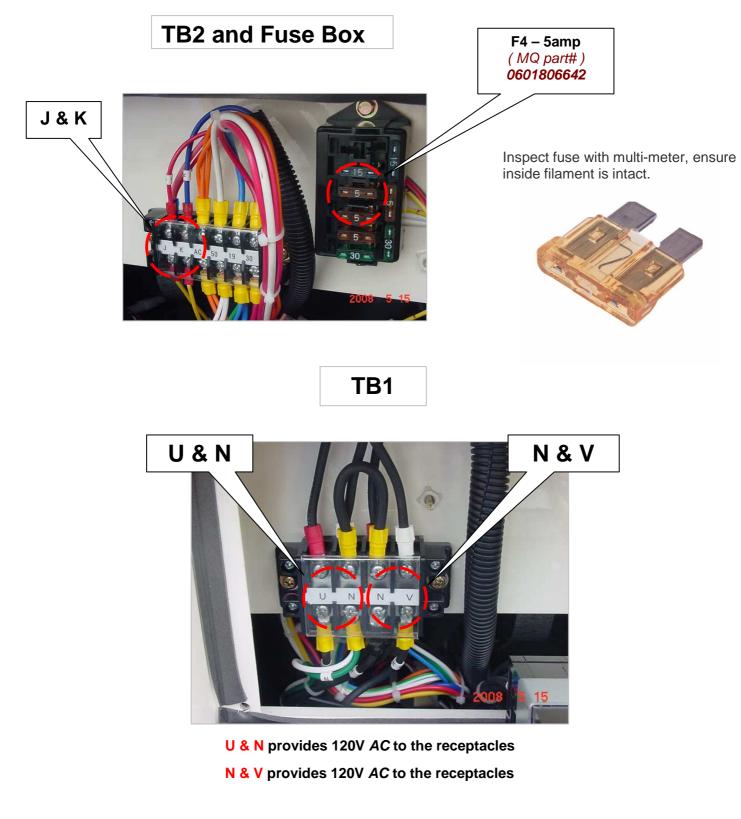
NOTE: The above readings conform with an analog type (needle indicator) ohmmeter, some digital type ohmmeters may show opposite polarity continuity.

- Excitation & Output Windings Pg. 3
- Resistor & Rectifier Pg. 4
- Engine Diagram Pg. 5
- Generator Diagram Pg. 6

TI\_DA7000\_Voltage\_Diagnostic

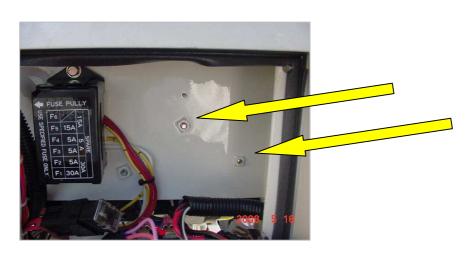


# Excitation & Output Windings

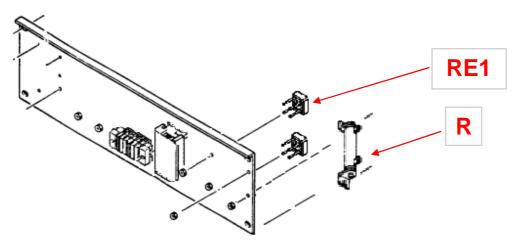




# RE1 & R



**RE1 & R** is mounted behind the panel by machined screws

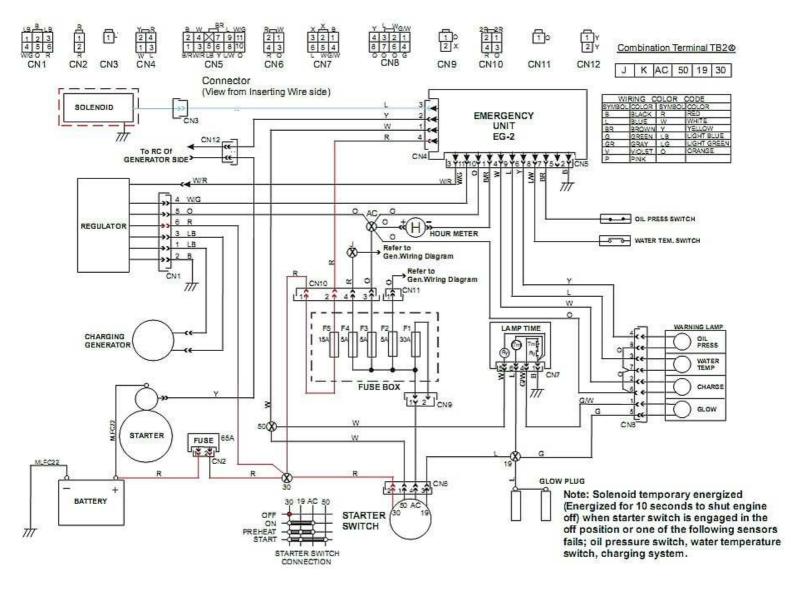


There are two rectifiers at this location, the top one **RE1** is for excitation.

RE1 (Diode Rectifier) ( MQ part# 0601823204 ) prevents voltage spikes or back feed in the circuit.

**R** (Resistor) (*MQ part# 0601842463*) opposes the electrical current by producing a voltage drop between it's terminals in proportion to the current. (controls the flow of electrical current)







### **Generator Wire Diagram**

