

## **QUAD CIRCUIT**

**USED ONLY ON 5KW & 10KW TQG  
QUAD CIRCUIT LEADS ARE COMING  
FROM THE MAIN AC STATOR AS  
Q1 AND Q2**

**NORMAL FAULT: NO AC VOLTS AND NO HERTZ**

**TROUBLESHOOTING BY TECHNICAL MANUAL WILL  
HAVE YOU TEST THE AC VOLTAGE REGULATOR (A1)  
ORGANIZATIONAL MAINTENANCE TO  
TEST AND REPLACE**

### **TEST**

**TERMINALS 1 AND 2, VOLTAGE ADJUST: 1.2 VAC  
TERMINALS 3 AND 4, 120 VAC SENSE: 117.5 VAC  
TERMINALS 5 AND 6, EXCITER FIELD: 6.0 VDC  
TERMINAL 7 AND 8, QUAD CIRCUIT: 68.2 VAC**

**NOTE: DO NOT TEST IF STATOR IS HOT, A HIGH  
TEMPERATURE WILL AFFECT YOUR READINGS.**

**LOW AC VOLTAGE AT TERMINALS 7 AND 8, PERFORM  
CHECK ON QUAD CIRCUIT, PAGE 4-23 OF THE -24 TM,  
PARAGRAPH 4-10.7 AND REFER TO TABLE 4-1, PAGE 4-  
19. REMOVE WIRES FROM TERMINAL 7 AND 8 OF THE  
A1, AND USING AN OHM METER, READ BETWEEN  
WIRES THAT CONNECT TO TERMINALS 7 AND 8 OF  
THE A1. THE READING SHOULD BE .9053 TO 1.224  
OHMS. ANY READING ABOVE OR BELOW THIS  
READING MEANS THAT THE MAIN AC STATOR IS  
UNSERVICEABLE AND MUST BE REPLACED AT  
DIRECT SUPPORT MAINTENANCE.**