

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.**