REVISIONS

1 6-26-79 #02

TEST INSTRUCTION - 3S7932MD244G1 POWER SUPPLY ASSEMBLY

1. INSPECT FOR CONFORMANCE TO MATERIAL LIST, CONNECTION DIAGRAM, AND QUALITY OF ASSEMBLY.

2. WIRE CHECK PER ELEMENTARY (3S7932MD244G1 SH. 1).

3. ELECTRICAL TEST (NO HI-POT REQUIRED).

A. EQUIPMENT

1. VARIAC 0-150VAC, 5 AMP, SINGLE PHASE
2. LOAD RESISTOR 25 ± 10% OHMS, 100 WATT
3. OSCILLOSCOPE
4. AC VOLTMETER, 0-150VAC
5. DC VOLTMETER, 0-50VDC

B. NO LOAD TEST.

1. CONNECT AC POWER, THROUGH VARIAC, TO TERMINALS PS1 AND PS2.
2. APPLY POWER. ADJUST FOR 40VAC AT TERMINALS PS1 AND PS2.
3. MEASURE DC VOLTAGES AS FOLLOWS. TERMINAL PS5,8, OR 10 IS COMMON.
   A. PS4 (+15V): +15 ± 10%
   B. PS6 (-15V): -15 ± 10%
   C. EMITTER 1Q: +25 ± 10%
   D. PS11 (-18V): -7 ± 10%
   E. PS7 (-24V): -27 ± 10%
   F. PS9 (+36V): +15 ± 10%
4. INCREASE AC INPUT VOLTAGE TO 115VAC. AGAIN MEASURE DC VOLTAGES AS FOLLOWS.
   A. PS4 (+15V): +15 ± 10%
   B. PS6 (-15V): -15 ± 10%
   C. EMITTER 1Q: +27 ± 10%
   D. PS11 (-18V): -21 ± 10%
   E. PS7 (-24V): -27 ± 10%
   F. PS9 (+36V): +44 ± 10%
5. NOTE. IN THE FOLLOWING, SOME COMPONENT RATINGS WILL BE MOMENTARILY EXCEEDED WHEN THE A.C. INPUT VOLTAGE IS RAISED ABOVE 130V. LIMIT OPERATION TO 5 SECONDS AT A TIME WITH 10 SECONDS COOLING TIME BETWEEN STEPS.
   RAISE INPUT VOLTAGE TO 150VAC. MEASURE D.C. VOLTAGES AS FOLLOWS.
   A. PS4 (+15V): +15 ± 10%
   B. PS6 (-15V): -15 ± 10%
   C. EMITTER 1Q: +27 ± 10%
   D. PS11 (-18V): -24 ± 10%
   E. PS7 (-24V): -27 ± 10%
   F. PS9 (+36V): +47 ± 10%
6. REMOVE POWER

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3. ELECTRICAL TEST - (CONTINUED)

C. LOAD TEST.

1. FOR EACH OF THE FOLLOWING POINTS, CONNECT LOAD RESISTOR (SPECIFIED IN STEP 3.A.2) FROM COMMON TO POINT SPECIFIED, MEASURE DC VOLTAGE WITH AC INPUT AT 115V. IN ADDITION, USE OSCILLISCOPE TO CHECK RIPPLE AND OSCILLATION ON 15V BUSSES. RIPPLE SHOULD BE LESS THAN 0.2V PEAK TO PEAK AND NO PARASITIC OSCILLATION SHOULD BE PRESENT ABOVE 1 MHZ.

A. PS4 (+15V) +15 ± 5%
B. PS6 (-15V) -15 ± 5%
C. PS11 (-18V) -18 ± 10%
D. PS7 (-24V) -27. ± 10%
E. PS9 (+36V) +36 ± 10%

2. REMOVE POWER

D. DISCONNECT TEST SET-UP