REVISIONS

SPECIFIC TESTS

A. TEST TO BE MADE

1. COMPONENT CHECK, Q.C. WIRING, INSPECTION CHECK
2. VOLTAGE ADJUSTMENT, SHORT CIRCUIT ADJUSTMENT
3. LOAD REGULATION AND RIPPLE
4. LINE REGULATION
5. SHORT CIRCUIT TEST
6. CROWBAR TEST

B. TEST CONNECTIONS

1. WITH POWER OFF, VERIFY THAT CASE TO 5.3V IS OPEN CIRCUIT ON RX 10,000 OHM SCALE.
2. CONNECT PROPER DC/DC CONVERTER TO PROPER AC/DC CONVERTER PER FIG. 1. MONITOR POWER SUPPLY OUTPUT TERMINALS WITH A DIFFERENTIAL VOLTMETER AND AN OSCILLOSCOPE. SET LOAD TO MAXIMUM RESISTANCE (MINIMUM CURRENT)

C. VOLTAGE ADJUSTMENT AND CURRENT ADJUSTMENT

1. SET A-C VOLTAGE TO 115 VOLTS 60 CPS. APPLY POWER
2. ADJUST POT R120 CW UNTIL V_o IN 5.3V $\pm$ 6 MV
3. ADJUST POT R110 CW AND VARY LOAD CURRENT TO MAKE POWER SUPPLY ENTER CURRENT LIMIT AT 120% OF RATED CURRENT. (WHEN SUPPLY ENTERS CURRENT LIMIT, CURRENT SHOULD REMAIN CONSTANT AND VOLTAGE SHOULD DECREASE AS SUPPLY DROPS OUT OF VOLTAGE REGULATION AND ENTERS CURRENT REGULATION)

D. LOAD REGULATION AND RIPPLE

1. SET LOAD RESISTOR TO GIVE 50% RATED CURRENT. VERIFY THAT RIPPLE ACROSS POWER SUPPLY OUTPUT CAPACITORS IS LESS THAN 60 MV. P.P. VERIFY THAT FREQUENCY IS APPROXIMATELY 1-1.6 KHZ. INCREASE LOAD TO 100%. VERIFY FREQUENCY CHANGES LESS THAN 20%.
2. VARY POWER SUPPLY LOAD FROM 100% RATED LOAD TO NO LOAD. VERIFY THAT OUTPUT VOLTAGE CHANGES LESS THAN 15 MV.

E. LINE REGULATION

1. SET POWER SUPPLY LOAD TO 100% RATED. VARY INPUT A-C LINE $\pm$15%. VERIFY THAT OUTPUT VOLTAGE CHANGES LESS THAN 15 MV AS THE A-C VOLTAGE IS VARIED.

F. SHORT CIRCUIT TEST

1. SHORT CIRCUIT SUPPLY OUTPUT. VERIFY I_o IS EQUAL TO 120% I RATED AS SET IN STEP D.4.
2. REMOVE SHORT CIRCUIT AND VERIFY THAT THE POWER SUPPLY RECOVERS AND REGULATES PROPERLY.

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PRINTS TO

G. CROWBAR TEST

1. REMOVE POWER. REMOVE LK2 ON TB1. ADD A 1000Ω RHEOSTAT SET TO ZERO OHMS BETWEEN TB1(6) AND TB1(7). REAPPLY POWER. SUPPLY SHOULD REGULATE APPROXIMATELY 5.3 VOLTS.
2. SLOWLY INCREASE RESISTANCE OF RHEOSTAT CAUSING SUPPLY VOLTAGE TO INCREASE.
3. VERIFY THAT CROWBAR FIRES AND TRIPS CIRCUIT BREAKER WHEN SUPPLY IS BETWEEN 6 AND 9 VOLTS. REMOVE RHEOSTAT, REAPPLY LINK, AND VERIFY THAT SUPPLY REGULATES PROPERLY WHEN BREAKER IS RESET. REMOVE POWER.

H. REMOVE REGULATOR CARD. APPLY POWER. VERIFY THAT LIGHT COMES ON. REMOVE FUSE. VERIFY THAT LIGHT GOES OUT. VERIFY FUSE IS PROPER VALUE. REPLACE FUSE. REMOVE POWER AND REPLACE REGULATOR CARD.

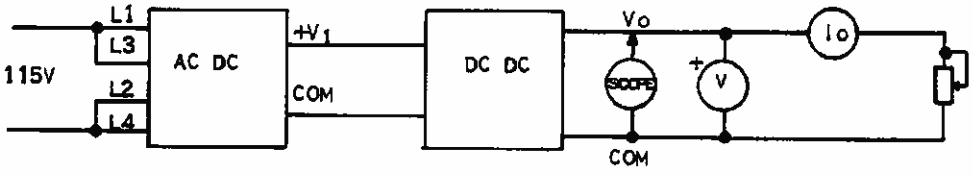

FIGURE 1

TABLE 1

MODULE TO BE TESTED	AC DC CONVERTER NEEDED
IC3601A244	IC3601A243
IC3601A246	IC3601A235
IC3601A248	IC3601A237

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PRINTS TO