

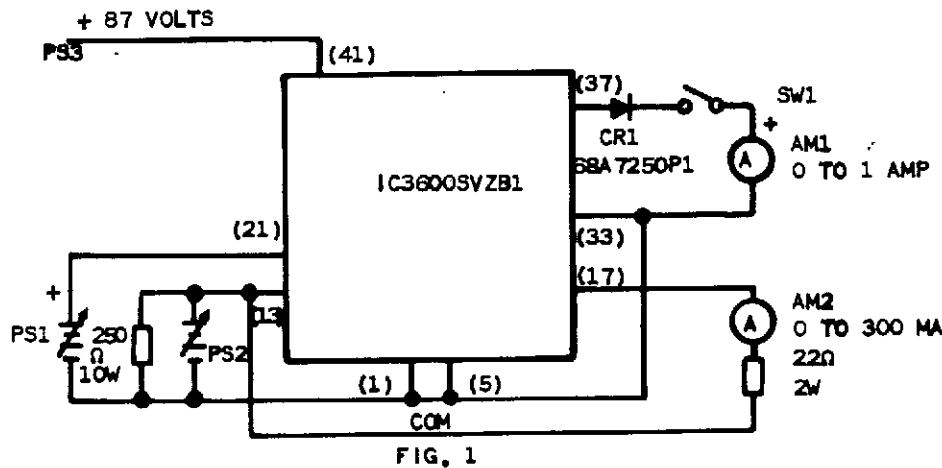
REV NO. A	TITLE
6 8 A 9 9 3 8 7 7	TEST INSTRUCTIONS FOR IC3600SVZB.1 50 VOLT REGULATOR CARD
CONT ON SHEET 2 SH NO. 1	FIRST MADE FOR IC3600SVZB.1

- I THE FOLLOWING FUNCTIONS WILL BE TESTED ON THE IC3600SVZB CARD:
1. INVERTER TEST
 2. VOLTAGE REGULATOR TEST
 3. CURRENT LIMIT TEST
 4. CROW BAR TEST

SPECIFIC TEST

II INVERTER TEST

WITH PS1 SET TO ZERO VOLTS, PS2 SET TO ZERO VOLTS AND PS3 SET TO +87 VOLTS, APPLY POWER TO CIRCUIT PER FIG. 1.



1. VERIFY THAT Q28 EMITTER VOLTAGE IS 44.5 TO 52.0 VOLTS.
2. VERIFY THAT Q20 COLLECTOR HAS A SQUARE WAVE VOLTAGE. IT SHOULD HAVE AMPLITUDE OF TWO TIMES Q28 VOLTAGE MEASURED IN (1) ABOVE, (± 5 VOLTS). PERIOD OF SQUARE WAVE SHOULD BE 350 TO 490 MICROSECONDS.
3. VERIFY VOLTAGE ACROSS C7 TO BE 5.3 TO 6.2 VOLTS D.C.
4. VERIFY VOLTAGE ACROSS C5 TO BE -5.3 TO -6.2 VOLTS D.C.
5. CLOSE SW1. VERIFY THAT AM1 READS 245 TO 345 MA. OPEN SW1. REMOVE POWER. ADJUST POT R110 FULL CCW. ADJUST POT R100 FULL CW.

III VOLTAGE REGULATOR TEST

WITH PS1 SET TO 55.0 VOLTS, PS2 SET TO 50.0 VOLTS AND PS3 SET TO 87 VOLTS, APPLY POWER PER FIGURE 1.

1. VERIFY AM2 = 6 MA TO 0 MA
2. SLOWLY ADJUST POT R110 CW AND VERIFY THAT AM2 VARIES FROM 0 MA TO 170 MA ± 25 MA. LEAVE POT SET FOR 60 MA APPROXIMATELY.
3. CLOSE SW1. VARY PS1 AND VERIFY THAT AT 57 TO 59 VOLTS AM1 SWITCHES TO 0 FROM SAME CURRENT MEASURED IN STEP II .5.
4. REMOVE POWER

REVISIONS

REF. 4-11-69
1-29-71

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FDA 9-5-72

3 FDA

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PRINTS TO

MADE BY DARLENE ALLIE	APPROVALS	INDUSTRY CONTROL SALEM, VIRGINIA	DIV OR DEPT. LOCATION
ISSUED October 31-1968	6 8 A 9 9 3 8 7 7 CONT ON SHEET 2 SH NO. 1		

REV. NO. A	68A993877
CONT ON SHEET FL. SH NO. 2	68A993877

TITLE TEST INSTRUCTIONS FOR IC3600SVZB1 50-VOLT REGULATOR CARD	FIRST MADE FOR IC3600SVZB1
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REVISIONS

IV CURRENT LIMIT CLERK

1. REMOVE PS1, AM2. ADJUST PS1 TO ZERO VOLTS. CONNECT PS1 WITH
 NEGATIVE SIDE TO PIN 27 AND + SIDE TO PIN 29. CONNECT PIN 27 TO
 COM. CLOSE SWITCH SW1. REAPPLY POWER.
2. AMMETER 1 SHOULD READ CURRENT AS MEASURED IN STEP 11 .5.
3. ADJUST PS1 TO .85 VOLTS. ADJUST R300 COUNTER UNTIL AMMETER DROPS TO
 ZERO AMPS. REDUCE PS1. AMMETER SHOULD RETURN TO ORIGINAL CURRENT
 WHEN PS1 READS BETWEEN .60 AND .75 VOLTS. INCREASE TO .85 VOLTS,
 IT SHOULD DROP TO ZERO.
4. REMOVE POWER

V CROWBAR CHECK

1. REMOVE ALL CONNECTORS TO CARD
2. CONNECT AN ADJUSTABLE POWER SUPPLY WITH + LEAD ON PIN 7,
 - LEAD ON PIN 1.
3. CONNECT A 0-50 MA FROM PIN 9 TO COM. (+ LEAD ON PIN 9)
4. SLOWLY INCREASE POWER SUPPLY VOLTAGE UNTIL AMMETER READS
 GREATER THAN THREE MA. THIS SHOULD OCCUR WHEN POWER SUPPLY IS
 53 TO 62 VOLTS.

THIS COMPLETES TEST:

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