GENERAL ELECTRIC

REV NO. A	TITLE	68A993497 CONT ON SHEET 2 SH NO. 1
68A993497 CONT ON SHEET 2 SH NO. 1	TEST INSTRUCTIONS FOR 12-V REGULATOR FIRST MADE FOR IC3600SVZA1	

IC3600SVZA

SPECIFIC TEST

I. CONNECT CIRCUIT PER FIG. 1.

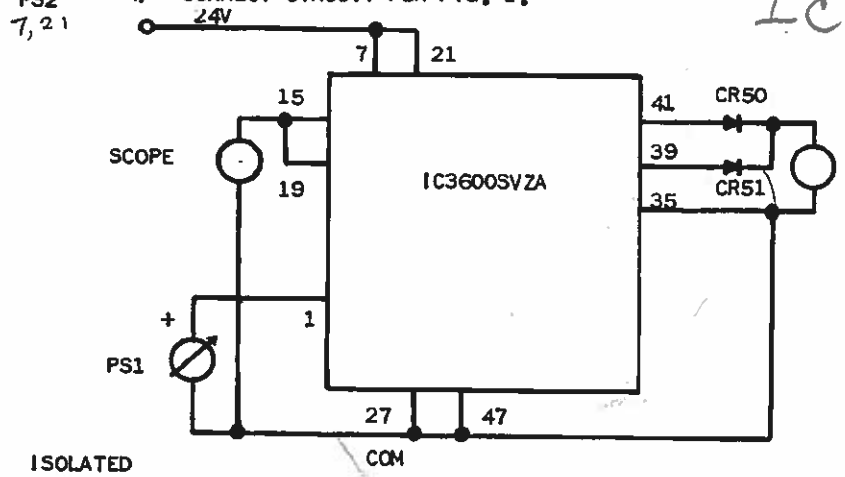

FIG. 1

C1 .0022
C21 10 ufd 12V
C22 5 ufd 25V
C15 10 ufd 12V
C18 100 ufd 12V
C25 50 ufd 25V

II INVERTER TEST

WITH PS1 SET TO ZERO VOLTS, PS2 SET TO +24V:

1. VERIFY PIN 15 IS A 48 VOLT SQUARE WAVE APPROXIMATELY .85 TO 1.0 MS PER CYCLE.
2. VERIFY VOLTAGE CR29 TO COM IS 9.5 TO 10.5 VOLTS D.C.
3. VERIFY VOLTAGE ACROSS C18 IS 5 TO 6 VOLTS D.C.
4. VERIFY VOLTAGE ACROSS C15 IS -5.5 TO -7 VOLTS D.C.
5. VERIFY VOLTAGE ACROSS C22 IS -16 TO -19 VOLTS.
6. VERIFY AMMETER READS .7 TO 1.1 AMPS
7. REMOVE POWER. CONNECT CATHODE OF TEST DIODE CR51 TO PIN 35 DIRECTLY. REAPPLY POWER. VERIFY AMMETER READS APPROXIMATELY 1/2 OF STEP 6 REMOVE POWER. RECONNECT CR50 AND 51 PER FIG. 1.

III VOLTAGE REGULATOR CHECK

1. REAPPLY POWER. SHOULD HAVE SAME CURRENT AS STEP II .6. SLOWLY INCREASE PS1 FROM 0 VOLTS UNTIL AMMETER DROPS TO ZERO. ADJUST R120 TO CAUSE THIS TO OCCUR AT 12.0 VOLTS. REMOVE POWER.
2. REMOVE CONNECTION FROM PS1 TO PIN 1. CONNECT PS1 TO PIN 5. APPLY POWER, SLOWLY INCREASE PS1 FROM 0 VOLTS UNTIL AMMETER DROPS TO 0 AMPS. VERIFY THIS OCCURS WHEN PS1 IS BETWEEN 27 AND 29 VOLTS. REMOVE POWER. RETURN PS1 TO 0 VOLTS.

REVISIONS

A1 4-27-70 PDA
A2 10-4-73 CWF
A3 9-18-92 JW.

2520
DL22
2

PRINTS TO

MADE BY DARLENE ALLIE	APPROVALS	INDUSTRY CONTROL (DIV OR DEPT.)	68A993497 CONT ON SHEET 2 SH NO. 1
ISSUED October 10-1969		SALEM, VIRGINIA (LOCATION)	

FF-803-WF (12-67)
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CODE IDENT NO.

REV NO. A

68A993497
CONT ON SHEET FL. SH NO. 2

TITLE
TEST INSTRUCTIONS FOR
12-V REGULATOR
FIRST MADE FOR IC3600SVZA1

REVISIONS
REV 10-8-69
2 AWE 10-4-73

CURRENT LIMIT CHECK

3. REMOVE PS1 FROM PIN 5 AND COM. ADJUST POT R110 ON CARD FULL C.W. CONNECT PS1 WITH NEG. SIDE TO PIN 29 AND POSITIVE SIDE TO PIN 31. CONNECT PIN 35 TO PIN 31. LEAVE PIN 35 CONNECTED TO 47 ALSO.

4. WITH PS1 SET FOR ZERO VOLTS, REAPPLY POWER. AMMETER SHOULD READ AS IN STEP II .6. ADJUST PS1 TO .85 VOLTS. ADJUST R110 C.C.W. UNTIL AMMETER DROPS TO ZERO AMPS. REDUCE PS1 TO .6 VOLTS. AMMETER SHOULD RETURN TO ORGINIAL CURRENT. INCREASE TO .85 VOLTS, IT SHOULD DROP TO ZERO. REMOVE POWER. DISCONNECT PS1. (NOTE AMMETER MAY RETURN TO ORIGINAL CURRENT WHEN PS1 EQUAL .6 TO .75 VOLTS. IT MUST BE AT ORIGINAL CURRENT WHEN PS1 IS .6 VOLTS, HOWEVER)

IV CROWBAR CHECK

1. RECONNECT PS1 PER FIG. 1. CONNECT PIN 37 TO PIN 51 TO COM. CONNECT PIN 43 TO PIN 1. REAPPLY POWER. VERIFY THAT AMMETER READS AS IN STEP II .6. CONNECT A MILLIAMMETER (0-50 MA) FROM PIN 49 TO COM. SLOWLY INCREASE PS1 TILL MILLIAMMETER READS >3 MA. THIS SHOULD OCCUR WHEN PS1 IS 13 TO 17 VOLTS.
REMOVE ALL POWER CONNECTIONS. VERIFY R30, R26, R87, R78 ARE CORRECT OHMIC VALUES.

V CONNECT +60 VOLTS TO PIN 23, COM TO PIN 47
CONNECT 4.7 KΩ RESISTOR FROM 9 TO PIN 47
VERIFY THAT PIN 3 READS 44 TO 50 VOLTS.

THIS COMPLETES TEST. REMOVE ALL CONNECTIONS.

DL22
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ISSUED October 10-1968
APPROVALS D.C.F.
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