

## STANDING INSTRUCTIONS

FOR USE OF G-E EMPLOYEES ONLY

SI 222/708  
SECTION Manufacturing  
CONT ON SHEET 2 SH NO. 1TEST INSTRUCTIONS FOR +5 Volt POWER SUPPLY 3N7500PS104F1/G1  
ELEMENTARIES: 44C285882, 44C288633 3N7500PS104H1/J1

## I. Pre-Power Inspection and Test

- a. Check polarity of all capacitors.
- b. Check for tight connections and mounting.
- c. Check FUI must be 7 amps.
- d. Check for zero ohms:

Common Bus	to: TB1-B
Common Bus	T1 Lead 4
+5V bus	TB1-M
Q4 Emitter	TB1-L
Q4 Collector	TB1-J
Q4 Base	TB1-K
L1-Lead1	TB1-E
L1-Lead2	TB1-D
Heat Sink	TB1-C
Q1, 2, 3 base	TB1-F, G, H
L2 - Lead 2	H.S.
L2-Lead1	+5 Volt bus
T1-Lead3	Both rectifier blocks (D1-2, D3-4)
T1-Lead5	Both rectifier blocks (D1-2, D3-4)
L1-Lead2	Both Rectifier Blocks (D1-2, D3-4)
H.S.	Rectifier blocks D15/16 and D17/18 cathode.

- e. Check for opens:

Common bus	to: +5V bus
Common bus	H.S.
Common bus	L1 leads 1 & 2

## II. Pre-Power Connection

- a. Check that switch on side of the tester is off.
- b. Turn variac on front - bottom of tester full counterclockwise.
- c. Connect load lead to +5 output on ply.
- d. Connect +12 to supply under test. *Connect +12 from tester to PS TBA*
- e. Connect AC leads from the large jacks on the tester to supply.
- f. Set 5 volt load pot to approximately 5 amps.
- g. Set DVM to +5 position.

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## SAFETY NOTE:

When applying power for the first time, to the input and output filter capacitors, verify that the terminal ends of the capacitors are not pointing toward personnel.

## III. POWER UP

- Slowly apply A.C. power to primary of T1 via variac per table below; watch for abnormal conditions - smoke, smell, sound.
- If the D.C. level deviation exceeds 10%, discontinue A.C. voltage increase, refer to trouble shooting guide.

NOTE: Do not exceed D.C. level of 18V across C2-3.

AC Volts	DC Volts
10	0.6
20	1.8
30	3.2
40	4.0
50	5.0
60	
70	
80	
~	
~	
120	
130	
132	5

- Using 5 volt load pot, apply full load 52 amperes. Set load bus to +5V (+0.01V) by means of P1 on supply.
- Connect oscilloscope: Trace 1 to TB1-C (square wave)  
Trace 2 to point A on REG 5 board \*  
(Saw tooth wave form). Verify clean wave forms of the same frequency for all tests.

\*R 29

## IV. REGULATION CHECK

- Vary variac from 98 to 127 volts. Check that DC +5 volts is within  $\pm .02$  volts.
- Vary load from 5 amps to 52 amps. In 10 amp steps vary variac from 100 to 130 volts. Check that DC +5 is within  $\pm .02$  volts.

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## V. RIPPLE CHECK

- a. Set load to 52 amps. Check that output ripple voltage does not exceed 0.1 volt peak to peak.



- b. If the power supply under test is a G1 or J1 model the test complete at this point. If it is an F1 or H1 model proceed test the CBR1 board per S.I. 222/391.

## VI. POWER DOWN

- a. Turn load pot to 5 amps  
b. Push OFF switch on tester.  
c. Turn side switch (disconnect) on the side of tester off (down).  
d. Disconnect power supply.  
e. Stamp out.

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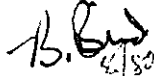
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