

GENERAL ELECTRIC

2 7 7 A 3 7 8 1

CONT ON SHEET 2 SH NO. 1

REV
NO.

TITLE

STANDING INSTRUCTIONS

CONT ON SHEET

SH NO.

FIRST MADE FOR 44C300339-G01-G04

REVISIONS

Test Instructions

for

44C300339 G1-G4

A.C. Regulator Board

cc. Q. C. ENGINEERING
Q. C. SUPR
TEST TECHNICIAN

DL13

3EL1

PRINTS TO

MADE BY
K.A.MORRIS 790912

APPROVALS

DRIVE SYSTEMS

DIV OR
DEPT.

2 7 7 A 3 7 8 1

ISSUED

9-13-79

WZd

SALEM, VA.

LOCATION

CONT ON SHEET

2

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GENERAL ELECTRIC

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CONT ON SHEET 3 SH NO. 2

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FIRST MADE FOR

STANDING INSTRUCTIONS

440300339-G01-G04

REVISIONS

Test Instructions
for
44C300339 G1-G4
A.C. Regulator Board

I. Equipment Required

- A. 2 DVM'S
- B. 44C300339 G1-G4 Test Panel and Board Adapter
- C. Elementary ~~44C300339~~ ^② 44C320940 Rev 2
- D. Oscilloscope
- E. Power Supply

II. Set-up

- A. Connect board adapter to the test panel.
- B. Turn SW1, SW2 and SW3 on the test panel off and plug fixture in to 115VAC power source.
- C. Connect a digital voltmeter to the "ext meter" jacks on the front of the test panel (yellow and black jacks).
- D. Turn Level adjust P1 on the test panel fully counter-clockwise.
- E. Place the board under test in the board adapter and turn the pots on the board under test as follows:
 1. A1P 4
 2. A2P 2
 3. A3P 8.5
 4. A4P 6 ^② check Resistance = ~~225K to 275K~~ ^{200K to 300K}
 5. A5P 0

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GENERAL ELECTRIC

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CONT ON SHEET 4 SH NO. 3

REV NO.	TITLE <div style="text-align: center;">STANDING INSTRUCTIONS</div>		
CONT ON SHEET	SH NO.	FIRST MADE FOR 44C300339-G01-G04	

REVISIONS

6 A6P 5.5

7. A7P 0

8. A8P 8

9. A9P 6

② 200K to 300K
check Resistance = ~~205K to 275K~~

① F. Check Resistance

G1 Ohms	G3 Ohms
A38R = 2.28K to 2.52K	1.71 to 1.89K
A39R = 9.5K to 10.5K	7.79 to 8.61K
A43R = 209 to 231	209 to 231

III. Test

A. Test of first (1st) stage gain

1. Switch SW1 on and adjust the "Level adj." for $19v \pm 0.1V$ ② on the external meter.
2. Connect a second digital voltmeter to the emitter of 9Q on the board under test. Place the common lead of the meter on the -24v buss at (3, 22, 18, 17, D or A) on the board adapter. Voltage @ 9Q Emitter will increase.
3. Adjust A6P on the board under test to get $a+1.36v \pm 0.05V$ ② change on the emitter of 9Q when PB1 is pushed. Note ② after each time A6P is adjusted the 19v may need to be ② to be preset with "Level Adj P1" on the test panel.

B. Test of the Second (2nd) stage gain

1. Make sure that the "ext meter" is still set for $19v \pm 0.1$ ② use the "Level Adj P1" to adjust.
2. Adjust A3P on the board under test for $8 \pm 0.1V$ ② on the meter on the test panel.

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GENERAL ELECTRIC

2 7 7 A 3 7 8 1

CONT ON SHEET 5

SH NO. 4

REV
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STANDING INSTRUCTIONS

CONT ON SHEET

SH NO.

FIRST MADE FOR 44C300339-G01-G04

REVISIONS

Test Instructions
for
44C300339 G1-G4
A.C. Regulator Board

3. Push the PB1 on the test panel and the output meter

on the panel should give a $5.2v \pm 0.1v$ change. Touch up ad-

justment of A3P until this change occurs. The

"Ext Meter" should remain at $19v \pm 0.1v$.

READING UNV DECREASE BY 5.2v
8.0
5.2
2.8

C. Test of Exc Low Limit

1. Turn "SW2" on the test panel on

2. Adjust "Level Adj P1" fully CCW

3. Adjust A1P for $3.5v \pm 0.1v$ on the output meter on the test panel.

4. Turn "SW2" off

D. Test of Phase Back

1. Turn "SW3" on

2. Connect an oscilloscope to the red and black scope
jacks on the front of the test panel

3. Insure that the "Level Adjust P1" is still fully CCW

4. Set A2P for $1.85 \mu s$ pulses (to middle of slope)

5. Turn SW3 off

E. Test of URAL Input

1. Connect a DC Power Supply to point A and B on the
board under test. Connect the "-" to A and the "+"
to B.

2. Turn the power supply to zero volts and turn it on.

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CODE IDENT NO.

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44C300339-G01-G04

REVISIONS

Test Instructions
for
44C300339.. G1-G4
A.C. Regulator Board

3. Set the "Level Adj P1" on the test panel for $9v \pm 0.1v$ ^①
on the output meter also on the panel.
4. Turn A8P on the board under test to 2 on its dial.
5. Slowly increase the power supply voltage until the
output meter on the test panel just begins to
decrease. The power supply voltage should be approx 3.0v
6. Turn the power supply voltage adjust back to zero
volts and turn A8P to 5 on its dial.
7. Repeat step 5. The voltage on the output meter should
begin to decrease when the power supply reaches approx 2.0v
8. Turn the power supply voltage adjust back to zero volts
and turn A8P to 8 on its dial
9. Repeat step 5. The voltage should decrease at
approx 1.7 power supply voltage

IV. Final Test

- A. With an ohmmeter wire check rectifiers A1D-A12D and A28D.
- B. Test Stamp Board

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