

2 7 7 A 3 7 9 4

REV NO.	TITLE		CONT ON SHEET	SH NO.
2 7 7 A 3 7 9 4	Test Specifications		2	1
CONT ON SHEET 2	SH NO. 1	FIRST MADE FOR 44C331863-G01 & G02		
<p>STANDING INSTRUCTIONS</p> <p>FOR RELAY</p> <p>RELAY PRINTED CIRCUIT BOARD</p> <p>FOR</p> <p>POWER SYSTEM STABILIZER</p> <p>Distribution Copies:</p> <p>1 QC Eng.</p> <p>1 QC Test</p> <p>1 Eng.</p>				REVISIONS
MADE BY	APPROVALS	Drive Systems	DIV OR DEPT.	2 7 7 A 3 7 9 4
ISSUED	11-20-78	11/5/78	Salem, Va. USA	LOCATION
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GENERAL ELECTRIC

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FIRST MADE FOR 44C331863-G01 & G02

REVISIONS

I. Test Equipment Required

- A. Printed Circuit Board test setup 44C931365
- B. Adaptor Cable - Amp. Mod. II 30 pin.
- C. Adaptor Cable - Power Supplies
- D. Oscilloscope - Tektronix model 7403N or equivalent
- E. Patchboard PB-3.
- F. Drawings

44C306569	Elementary	for G01 (3)
44C309094	"	for G02
44C331863	Assembly	
44C931365	Test Fixture	

II. Connections

- A. Connect the Amp Mod II adaptor cable to "PL-1" on the Universal Tester (U.T.)
- B. Connect the Power Supply adapter cable to "PL-3" on the U.T. and to Power Supplies per lead markings.
- C. Insert patchboard PB-3 into carrier of U. T. and close.
- D. Connect a digital voltmeter to "BJ-1" and another to "BJ-2." (Red + and Black -).

III. Resistance Check

- Adjust 1P completely CCW. Remove F1F and F2F fuse. Connect Jumper 1S to Ter. 1-2 and Jumper 2S to Ter. 1-2, 3S to Ter. 2-3 and 4S to Ter. 2-3.
- ① Adjust 2P completely CCW.

Measure the following resistance:

Pin	To	Pin	LP	Resistance (Ohms)	(3) G02 only
11		13	CCW	1060 to 1200	2060 to 2200
11		13	CW	264 to 282	

3EL1

4QA3

1RA2

4EK1

DL13

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RK Gerlitz 781109

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J.R.P.
11/15/78

Drive Systems

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					REVISIONS
11	15	2P CW	327/16/369 385 to 427 ②		
13	15	2P CW	7467/16/8443/190 to 92 *		
9	28		Inf. (X 100 scale)		
7	17		Inf. (X 100 scale)		
19 (+)	22 (-)		55-100 (X100 scale)		
19 (-)	22 (+)		180-220		
④ * If out of limits remove F3S and F4S and check each component individually Reinsert fuses.				F5R = 95 to 105 Ω F2P = 900 Ω to 1100 Ω Reinstall F3S and F4S	
IV. SETUP					
A. Turn all switches to OFF or NORMAL on both the UT and UPS.					
B. Install Dialco 28 volt ^③ 40 MA Lamps ^③ "L18" in L18 , "L20", "L26" and "L27."					
C. Turn all D. C. power supplies to zero, then all varacs to zero on the UPS.					
D. Apply power to test stand.					
E. Install board to be tested into adaptor.					
V. Electrical Test					
A. Close "SW-1", "SW-18", "SW-20", "SW-26", "SW-34", depress "LPB-1" and increase PS-1 to 24 +0.5 VDC at "BJ-1". Output Off light (SW-2) ④ shall be energized on PCB.					
② Note: Should it become necessary to remove all power from PC board, open "SW-1".					
B. Close "SW-21". "Light 20" shall energize. Close "SW-27". "Light 27" should energize.					
C. Depress Output On PB. No change in lights. Release Output On PB. ^④ lights					
D. Close "SW-17" then depress Output On PB. Again no change in lights . Release Output On PB.					
E. Close "SW-24". Then depress Output On PB. Output Off and light 27 shall deenergize and Output On and light 26 shall energize. Release Output On PB and Output On and light 26 deenergize and Output Off and light 27 energize.					

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PRINTS TO

3EL1

4QA3

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F. Close SW-22. Light 20 shall deenergize and light 18 shall energize.

G. Depress and release Output on PB. Output Off and light 27 shall deenergize and Output On and light 26 shall be energized.

H. Perform the following SW function and insure PCB will transfer from Output On to Output Off to Output On.

SW		Depress & Release	Output
Open	Closed		
17			"OFF"
	17		"OFF"
		Output ON	"ON"
24			"OFF"
	24		"OFF"
		Output ON	"ON"

I. Adjust 1P completely CCW. Measure the following resistance.

Pin to Pin		Resistance (Ohms)
11	15	950 to 1150
11	13	1015 to 1150
15	13	90 to 110

Remove Ohmmeter

J. ~~Connect an oscilloscope across 2D (or 20) then across 3D (or 16) and check voltage delay time when Output Off PB is depressed. (Note the ground side of the oscilloscope can be connected to pin 28).~~

TC = 25m sec. ① Verify F1C and F2C are .33 mfd.

F1OR and F1LR are 150 ohm.

K. Place "RS-1" to position on 1, close "SW-11" and slowly increase PS-4 to 10 volts at "BJ-2". Note that ~~410-110~~ voltmeter tracks BJ-2 voltage in a positive direction within 3%. Return PS-4 to Zero.

L. Place "SW-11" down and repeat step K this time the voltage shall track in a negative direction. Return PS-4 to Zero.

M. Open SW-1 then return remaining switches to OFF or Normal. Return power supplies to zero.

① N. Measure forward resistance of F2D and F3D. Each shall be 7 to 8 0 ohms.

3EL1

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