GENERAL 🍪 ELECTRIC 2 7 7 A 3 8 5 4 CONT ON SHEET 2 SH NO. TITLE Test Specifications 2 7 7 A 3 8 5 4 2 FIRST MADE FOR 44C331828-C01 CONT ON SHEET SH NO. 1 REVISIONS STANDING INSTRUCTIONS FOR VOLTS/HZ PRINTED CIRCUIT BOARD FOR GENERREX SYSTEM 44C331828-G01 Distribution: + 1 Q.C. Engineering Engineering 3EL1 Test Area 4QA1 1RA2 4EK1 DL13 PRINTS TO SP Presen DIV OR RK Gerlitz 790109 277A3854 Drive Systems 1110/79 Salem, VA USA LOCATION CONT ON SHEET 2 SH NO. FF-803 WF (II-77)

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CONT ON SHEET 3 sh NO. 2 TITLE 277A3854 Test Specifications

FIRST MADE FOR 44C331828-G01

REVISIONS

## I. Test Equipment Required

SH NO.

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- A. Printed Circuit Board Test Setup 440931365
- B. Adaptor Amp. Mod. II 30 Pin
- C. Cable Power Supply
- Patchboard PB-1
- E. Drawings

440306930 44C331828-G01 440931365

Elementary Assembly

Elementary of Universal Power Supply

## Connection

- Connect the Amp. Mod. II adaptor cable to PL1 on the Universal Tester (UT).
- Connect the power supply cable to PL3 on the UT, to PL1 on the UPS, and to the power supplies per markings.
- Insert patchboard PB-1 in carrier of Universal Tester and close.
- D. Connect DC voltmeter to BJ-1 red (+) and black (-).
- Connect H.P. function generator to BJ-11. F. Install a 28 volt 40 ma lamp in "L18".

## III. Wire Check

Pin Test Point Resistance (Ohms) Pin To 21 2TP 95K to 105K 1TP 9K to 11K (1)18

Visually Check

29R 40R 10K ohms 8.06K

## IV. Setup

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- Turn all switches to OFF or Normal on both the UT and UPS.
- Turn all power supplies to zero on the UT and all variacs to zero on the UPS.
- C. Apply power to test stand.

DL13

PRINTS TO

3EL1 4QA1

1RA2

4EK1

RK Gerlitz 790109	SEP SEP	Drive Systems Div OR	2	7	7 A	. 3	8 5	5 4	
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CONT ON SHEET 4 SH NO. TITLE Test Specifications 2 7 7 A 3 8 5 4 FIRST MADE FOR 44C331828-G01 CONT ON SHEET SH NO. REVISIONS Install board under test to adaptor. +240 TO PINT 240 COM TO PIN 9 V. Electrical Test Close "SW-1" and "SW-34", depress "LPB-1" and then set "PS-1" to 24 ±0.5 VDC at BJ-1. NOTE: Should it become necessary to remove all DC power from the PCB, open "SW-1". + B. Depress "LPB-2" and adjust "PS-2" to 15 ±0.15 VDC. + IJU TO PIN I COM PIN 3 C. Depress "LPB-3" and adjust "PS-3" to 15 ±0.15 VDC. - IJU to PIN 5 Com PIN D. Adjust 2P, wiper (+) to 1TP (-) to  $-5.0 \pm 0.05$  VDC. With all variacs on the Universal Power Supply (UPS) set to zero (completely CCW), apply power to the UPS. Close 30 power switch on the UPS. Connect an AC voltmeter to UPS L-N voltage jacks and set the 30 voltage to 17  $\pm$ 0.17 VAC for each 0. This can be accomplished by setting the 30 variac approximately 1/3 turn CW and then turning the respective 10 variacs CW until 17 volts is obtained. Use PB-1, PB-2, and PB-2 for 01, 02, and 03 respectively. Condition 3 PHASE VOLTS
4 5 6 1 FROM FIXTURE U188515 TO PIN 11, 15, 17, com 70 3 G. Depress "PB-20" on the UPS. (Applies 30 voltage to UT). METER PIN 20. COM PIN 3,4 H. Place "RS-2" to position 2 (connects BJ-12 pin 20 to 4). The voltage at BJ-12 should be 0 <u>+</u>0.1 VDC. I. Close SW-30. (Applies 30 voltage to board pins 11, 15, 17 to 3). 35,00 J. Close/SW-M9. (Connects a 2/5%) resustor/pids/19-4). Place RS-1 to positions & , and 10 BJ-10 shall read 17 ±0.2 VAC in each position. Readjust Ø1, Ø2, and Ø3. Balance variacs if necessary. CHECE FOR 1704 47 K. Measure the pulses at the collector of 7Q with an oscilloscope. They should be equally spaced 2 to 2.5 milliseconds deviation and 14 + 1 volt amplitude. + PIN 20 3EL1 GW: Adjust 1P from SCW to CW position. BJ-12: L. Adjust 2P completely 40A1 shall vary from /5.9/±0.21 to -8.55 ±0.2 VDC.  $3 -5.5 \pm 1.0$   $7.8 \pm 1.1$ 1RA2 Adjust 1P for -6 +0.06 VDC at "BJ-12". PIN 20 4EK1 N. Open switch 30 and release PB-20 on the UPS. Turn all variacs to zero. DL13 REMOVE 3 PHACE INPUTS PRINTS TO APPROVALS DIV OR 277A3854 FR Pun RK Gerlitz 790109 <u>Drive Systems</u>

1/10/77

Salem, VA

USA

LOCATION CONT ON SHEET 4

SH NO.

CODE IDENT NO.

FF-803 WF (11-77)
PRINTED IN U.S.A.

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2 7 7 A 3 8 5 4	FIRST MADE FOR	44C331828-G01		
	F	ENTO PIN 17		REVI
0. Place "RS-1" t		19		
	_		14	
HOOKS US	SHORTS	PIN 3 SHOW	TS PIN IS TO P	-
P. Glose Sw-28.	Place "SW-2"	down and close "SV	V-/ .	
		P.MS	a . 100 (1 tt - b -	0
W. Adjust oscilla	tor output 10	r 10.5 ±0.2 volts A	Cat 180 ±1 Hz at	70 /7
	ead -6.0 ±0.05	5 VDC. PIN 20		
· ·		to 90 ±0.1 Hz. "BJ	ှားလှ 2 0 -12 shall read -3 +	0.05
VDC REMOUT 11	70 3		_	
T. Open "SW-7".	Jumper pin 17 and S with "R?	7 to pin 3 ? 5-1" in position 2.	INPUT SIG GEN TE	15
1 0.0pen "SW-2". C	lose "SW-17".	Place "RS-1" to po	osition l and repea	t
YOU Q, R, and S.	7 50 0 11 7 00 M	ETER PINIS T	0 FIN 10- 70 0	AT 150 H
V.Place "SW-18" de	own. Increas	e frequency from 90	to 180 Hz. "L18"	And the State of the Park of the State of th
shall energize	at 150 ± 3 Hz	. Adjust 2P to meet	limit.	,
W.Return "RS-1" to	o OFF and "BJ.	-12" shall be 0.0 +0	0.2 VDC	
1		ng switches on UPS		
normal. Turn				
				-
			•1	
			74	
				8
				35.0
				(S)
				8
				1
				3
				4
				1
<u>\$1</u>				I
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