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REVISIONS

PRINTS TO

2 7 7 A 3 7 5 8

Test Specifications
FREQUENCY TRANSDUCER

CONT ON SHEET 3 SH NO. 2

FIRST MADE FOR 44C331856G01

I. Test Equipment Required

A. Printed Circuit Board Test Setup 44C931365.

TITLE

- B. Adaptor Cable Amp Mod II 30 pin.
- C. Adaptor Cable Power Supplies.
- D. Patchboard PB1.
- E. Drawings 44C306562 Elementary 44B331728 Assembly 44C931365 Test Fixture

II. Connection

- A. Connect the Amp Mod II 30 pin adaptor to "PL1" on the Universal Tester (U.T.).
- B. Connect the power supply cable to "FL3" on the U.T. and to power supplies per lead markings.
- C. Insert patchboard PB1 into carrier and close.
- D. Connect a Digital DC Voltmeter to "BJ-1". Red (+) and Black (-).
- E. Connect WAVETECH TO "BJ-11 ON TGE U.T.

III. Wire Check

Test Point	Pin	Resistance (Ohms)	
1N(IN)	11	0	
12 TP	1	0	
11TP	5	0	
Out	15	0	
3TP	17	150 ± 15	
In/Out Ground	3	0	'SEL1
Visual Check			4QA3 6
			1RA2
40R		7.5K	4
22R		33K	4EK1
3R		220	
	c capacitor	s for proper orientation.	

RK Gerlitz 781011 R G Drive Systems DN 08 2 7 7 A 3 7 5 8

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GENERAL (M) ELECTRIC

277A3758 TITLE Test Specifications 277A3758 FREQUENCY TRANSDUCER FIRST MADE FOR 44C331856G01 CONT ON SHEET REVISIONS IV. Setup Place all switches to OFF on the U.T. and the Universal Power Supply B. Turn all power supplies to zero and all variacs to zero. C. Apply power to the Test Stand. D. Connect jumper 15 Ter. 2 to Ter. 3. V. Electrical Test A. Close "SW=1" and depress "LPB=10". Adjust PS1 to 24 ±0.5 VDC at "BJ=1" NOTE: Should it become necessary to remove all DC power, open "SW-1" ./ B. Depress "LPB-2" and adjust PS-2 to 15 ±0.05 VDC at "BJ-1". - APPLY HISVE 2 to TIV C. Depress "LPB-3" and adjust PS-3 to 15 ±0.05 VDC at "BJ-1". - APPLY 15V De to PAN 5 -D.-Place "SW-9" down. E. Set waveteck fir 35 +/- 1mv RMS 60HZ sine wave at 111 to 3. - connect PINITHS PINI connect PINITHS PINI verify 1TP is approxamately/9VDC Slowly turn 1P CW until a square wave appears at 1TP Slowly lower the waveteck voltage just to the point where the square wave at 1TP goes to a steady 9VDC Slowly turn 1P more CW until the square wave reappears and then slowly lower the waveteck voltage until the square wave again foes to a steady 9VDC Repeat turning 1P CW and lowering the waveteck voltage per above until the point is reached where the turning IP CW causes the signal at ITP to fo to a steady OV instead of a square wave. Substitute attached step E. 3E1.1 40A3 aue 9/1/99 IRA2 4EK1 + PRINTS TO KK Gerlitz 781011 Drive Systems 2 1 7 A 3 7 5 8

Salem, VA. U.S.A. LOCATION CONT ON SHEET

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E. Set IP fulls CEN, CW

Spun b.b

Set wavetek for 35 \pm/\pm 1mv RMS 50HZ sine wave at [11] to [3].

>=9Vdc,

Verify 1TF is approximately 7VDC. (13.76

Slowly turn 1900W until a square wave appears at 1TP.

Slowly lower the wavetek voltage just to the point where the square wave at 1TP goes to a steady SVDC.

Slowly turn 1P more(CW until the square wave reappears and then slowly lower the wavetek voltage until the square wave again goes to a steady 940C. 140

Repeat turning 1PCCW and lowering the wavetek voltage per above until the point is reached where the turning 1PCCW causes the signal at 1TP to go to a steady OV instead of a square wave.

Adjust wavetek to GURMS GOHZ

Substitute now step E above for old step E on sheet 3 of 277 A 3758.

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GENERAL & ELECTRIC 2 / 1 A 3 7 5 8 TITLE Test Specifications 277A3758 FREQUENCY TRANSDUCER CONT ON SHEET 5 SH NO. 4 FIRST MADE FOR 44C331856G01 REVISIONS F. Check the following waveforms with an oscilloscope: All measurements +/- 5% 9V P-P 1TP 2TP 6-2V P-P 3TP 4.70 - .33MS 4.2V P-BV 4TP 5TP 4.2V P-POV 2.6VP-P_{OV} 6ТР 0٧ -15v P-P - 14 MS +/- .06 MS Flat 8.25 + **JELI** 4QA3 I'RA2 4EK1 + PRINTS TO RK Gerlitz 781011 Drive Systems 10-13-78 277A3758 Salem, VA. U.S.A. LOCATION CONT ON SHEET 5 FF-803 WF (11-77) PRINTED IN U.S.A.

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CONT ON SHEET FL TITLE Test Specifications 277A3758 FREQUENCY TRANSDUCER FLCONT ON SHEET SH NO. 5 FIRST MADE FOR 44C331856GOI REVISIONS G. Adjust $\sqrt{4V!}$ Tr (Noutput to 3 \pm 0.1 V peak at "BJ-10". Connect the oscilloscope to TP9. This waveform should be 8.25 ± 0.41 VDC. +7.846×8.66106 Switch the oscilloscope to AC and increase the sensitivity observing the notch created by the sample and hold circuit. 20005 Adjust 2P for equal positive and negative amplitude of this notch above and below the nominal voltage of 8.25 volts. WAVETECH H. Connect the oscilloscope to "OUT" Test Jack. Adjust output to 8.48 ± 0.05 V peak 60 Hz \pm 0.1 at "BJ-10". Adjust 4P for zero output at OUT Test Jack. PVDC. WAVFTECH frequency to 63 \pm 0.1 Hz maintaining 8.48 \pm 0.01V Increase the I. peak at "BJ-10". Adjust 3P for 4.8 ± 0.2 volts D.C. at Out Test Jack frequency to 57 \pm 0.1 Hz maintaining 8.48 \pm 0.01V Decrease the peak. The OUT Test Jack shall be -5.2 ± 0.2 volts D.C. Change is jumper from 2-3 to 1-2. K. WAYFTECH frequency to 63 \pm 0.1 Hz. Adjust 5P for L. Increase the 0.475 ± 0.02 volts DC at OUT Test Jack. WAYFTICH frequency to 57 ± 0.1 Hz. The OUT Test Jack Decrease the shall read -0.53+ 0.02 volts D.C. WAVETECHO frequency to 60 ± 0.1 Hz. Reset Jumper Output (Scope) Freq. O. A.C. Input 1-2 60.6 Hz x volts 5 ± 0.5 1-2 -y volts 5 ± 0.5 -59.4 Hz $0.2 \pm 0.02 \text{ VDC}$ 1.2 Hz 2-3 60.6 Hz , x volts 5 ± 0.5 2-3 -59.4 Hz +y volts 5 ± 0.5 3E1.1 2.0 + 0.2 VDC 1.2 Hz 4QA3 Short out 42R. P. Connect DC voltmeter to 10TP. Depress "Jog Test" SW. Voltage at 1RA2 10TP shall droop 0.001 to 0.002 VDC. Release "Jog Test" SW and 4EK1 voltage shall increase 0.001 to 0.002 VDC. Remove 42R jumper. Q. Open "SW_1". Then all remaining switches. Turn all power supplies to zero. PRINTS TO KK Gerlitz RICHILL 781011 DRIVE SYSTEMS DIA CE 2 / 7 A 3 7 5 8 10-11-78 10-13-78 Salem, VA. E.S.A. LOCATION CONT ON SHEET

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