Filename

1.0 **APPLICABLE DOCUMENTS**

ELEMENTARY 44C308019 ASSEMBLY 44C331876

UNIVERSAL P.S. ELEMENTARY 44C931365

2.0 **TEST EQUIPMENT REQUIRED**

TEST SET-UP ADAPTOR

CABLE POWER SUPPLY GENERREX

3.0 **VISUAL CHECK**

3R	6.8K	29R	10K
7R	5.1K	30R	10K
16R	4.7K	31R	10K
24R	5.1K	32R	10K
28R	5.1K	33R	10K

4.0 **WIRE CHECK**

<u>PIN</u>	TO	TEST POINT	RESISTANCE (OHMS)
15		6TP	110K ± 4K
16		3TP	110K ± 4K
26		2TP	110K ± 4K
17		4TP	110K ± 4K
27		2TP	10K ± 2K
11		7TP	10K ± 2K
<u>PIN</u>	TO	PIN	
25		23	.9K TO 1.1K
27		28	0
13		14	0

5.0 PROCEDURE

- APPLY +15VDC TO PINS 2(+) TO 4(-). A.
- APPLY -15VDC TO PINS 6(-) TO 4(+). В.
- C. CONNECT PIN 3 TO PIN 24. APPLY +5VDC \pm .05 VDC AT PIN 23(+); NEG. TO PIN 3(-).

ADJUST 1P ON THE PC BOARD 2TP(+) TO D. 1TP(-)

CCW	$-3.34 \pm 0.2 \text{ VDC}$
CW	$-10.0 \pm 0.2 \text{ VDC}$
SET	$-5.0 \pm .005 \text{ VDC}$

DISTRIBUTION LIST: PWA TEST

5.0

- E. A. CONNECT A 10K RESISTOR FROM PIN 30 TO PIN 3, AND PIN 29 TO 3.
 - B. CONNECT DVM FROM PIN 30 TO PIN 3.
 - C. ADJUST 3P

CW -2.86 ±.2 VDC CCW -4.00 ±.2 VDC

- **F.** A. MOVE DVM FROM PIN 30, AND CONNECT TO PIN 29 TO PIN 3.
 - B. ADJUST 4P READ PIN 29

CW $-2.86 \pm .2 \text{ VDC}$ CCW $-4.00 \pm .1 \text{ VDC}$

- G. A. REMOVE 5 VOLTS FROM PIN 23. REMOVE PIN 24 FROM COMMON (3).
 - B. ADJUST 6P CW.
- **H.** ADJUST 5P 6TP(+) TO 1TP(-) PIN 14 PIN 12

CCW $-4.0 \pm .15 \text{ VDC}$ $-4.0 \pm .15 \text{ VDC} + 4.0 \pm .3 \text{ VDC}$ CW $-12.0 \pm .25 \text{ VDC}$ $-12.0 \pm .25 \text{ VDC} + 12.0 \pm .5 \text{ VDC}$ SET $-10.0 \pm .01 \text{ VDC}$ $-10.0 \pm .01 \text{ VDC} + 10.0 \pm .5 \text{ VDC}$

- I. A. CONNECT PIN 24 TO PIN 3.
 - B. APPLY -1.0 \pm .005 VDC TO PIN 23.
 - C. 2TP(+) TO 1TP(-) SHOULD READ +1.0 \pm .005 VDC. IF NOT ADJUST 1P SLIGHTLY TO OBTAIN SAME.
 - D. 6TP TP 1TP SHOULD READ 0 ± 0.15 VDC.
- **J.** A. ADJUST 6P CCW AND READ 3TP(+) TO 4TP(-) TO BE -10.7 \pm 1 VDC.
 - B. ADJUST 6P CW AND READ 3TP(+) TO 4TP(-) TO BE 0 VDC. LEAVE IN THIS POSITION.
- **K.** A. REMOVE CONNECTION FROM PIN 24 TO PIN 3.
 - B. REMOVE VOLTAGE SOURCE FROM PIN 23.
 - C. APPLY -5.0 \pm .005 VDC TO PIN 25.
 - D. ADJUST 2P READ 2TP(+) TO 1TP(-)

1. CCW +2.25 ± .10 VDC 2. CW -7.75 ± .90 VDC 3. SET 0 ± .01 VDC

- L. A. REMOVE -5.0 VOLTS FROM PIN 25. CONNECT PIN 24 TO 3.
 - B. APPLY -1.00 \pm .005 VDC TO PIN 23.
 - C. 3TP TO 1TP SHOULD READ -5.0 \pm .05 VDC.
- M. (DUE TO FREQUENCY USE DC COUPLING ON SCOPE FOR CHECKING INPUT AND OUTPUT FROM STEP M THRU STEP O).
 - A. CONNECT WAVETEK MODEL #171 TO PIN 20(+) TO PIN 3(-).
 - B. CONNECT SCOPE PIN 14(+) TO PIN 3(-).
 - C. ADJUST WAVETEK FOR .5 VPP AT 1HZ. SINEWAVE.
 - D. PIN 14 SHALL BE 6.0 ± 0.1 VPP.

INNER LOOP REGULATOR 44C331876-G01

PAGE 3 OF 3 FILENAME: 331876.DOC

- **N.** A. INCREASE WAVETEK TO $5.5 \pm .6$ HZ.
 - B. PIN 14 SHOULD BE $3.6 \pm .1$ VPP.
 - C. PIN 12 SHOULD BE $3.6 \pm .2$ VPP.
- **O.** A. REMOVE -1V FROM PIN 23.
 - B. CONNECT SCOPE TO 3TP. WAVEFORM WILL BE CLIPPING.
 - C. DECREASE WAVETEK UNTIL 3TP JUST STOPS CLIPPING.
 - D. THIS SHOULD OCCUR AT $0.195 \pm .03$ VPP.
- **P.** A. REMOVE WAVETEK.
 - B. APPLY $+1.0 \pm .01$ VDC TO PIN 18 TO 3.
 - C. 3TP SHOULD READ -5.0 \pm .05 VDC.

TURN ALL POWER SUPPLIES TO ZERO!

REV	INIT	DESCRIPTION OF CHANGE	DATE
000		Released to Floor	
001	JJW	Retyped to ISO Format	06/22/95
002	JJW	CONVERTED FROM WORDPERFECT FILE TO A DOC FILE	08/17/95
		IN WINWORD	
003	JJW	Corrected Polarity in Step H Pin 14 with 5P CCW	04/23/97
004	AWE	Reworded step L.A. to reduce confusion; Corrected page 1 filename	08/18/97
A	RKD	Gave document a Louisville procedure number. Changed REV style	10/10/03