

ASSEMBLY DRAWING PC BOARD DRAWING
125D460AE

SCHEMATIC DRAWING TEST KIT
125D443AE 165A663AE
FIXTURE #54

1.0 INSPECTION

- | | | |
|-------------------|----------------|-------------|
| .1 Identification | .3 Solder/Wire | .5 Key Slot |
| .2 Comp./Conn. | .4 Temp. Cycle | .6 |
| | | .7 |

REMARKS:

2.0 BOARD SET-UP

JUMPER ADD; R532 (5.23K), IC505 (4702 F/V CONVERTER).

3.0 TEST SET-UP

- 3.1 TURN POWER SWITCH OFF.
- 3.2 CONNECT +15 VDC, -15 VDC, -12 VDC, +5 VDC, +12 VDC AND COMMON TO TEST KIT.
- 3.3 CONNECT +5 VDC SQUARE WAVE GENERATOR FROM SG1(+) TO COM. SET TO 0 HZ.
- 3.4 SET S1, S2, S3, AND S4 OFF (LEFT POSITION).

4.0 BOARD TEST

PLUG BOARD INTO AE POSITION.
TURN POWER SWITCH ON.

STEP #

- 4.1 READ +15 VDC CURRENT, 45 MA. MAX.
- 4.2 READ -15 VDC CURRENT, 40 MA. MAX.
- 4.3 READ -12 VDC CURRENT, 10 MA. MAX.
- 4.4 READ +5 VDC CURRENT, 200 MA. MAX.
- 4.5 CONNECT SCOPE FROM TP501(+) TO COMMON. V1 MUST BE 7.0 VDC MAX.
SCOPE SETTINGS; DC MODE - 1 V/DIV - 0.1 MSEC/SC SWEEP

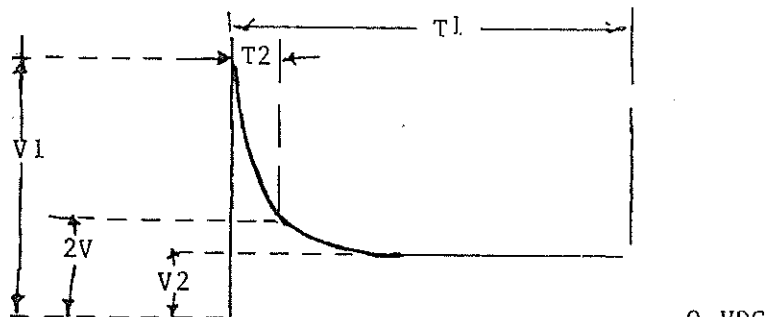
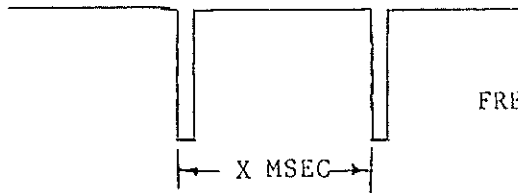


FIGURE 1

125D460AE

- 4.6 V2 MUST BE .5 VDC MAX.
 4.7 T2 MUST BE .05 MSEC MIN.
 4.8 CONNECT SCOPE FROM $\langle 6 \rangle$ TP511 TO COMMON. SETTINGS; DC MODE - 1 V/DIC
 10 MSEC.CM SWEEP.



$$\text{FREQUENCY} = \frac{1000}{X \text{ MSEC}} = 23 \pm 5 \text{ HZ}$$

FREQUENCY MUST BE 23 \pm 5 HZ OR 35.7 TO 55.5 MILLISEC BETWEEN PULSES.

- 4.9 SET SG1 TO .5 \pm .1 HZ.
 4.10 K1 MUST BE ON.
 4.11 SET SG1 TO 3 \pm .1 HZ.
 4.12 K1 MUST BE OFF.
 4.13 SET $\langle 2 \rangle$ P501, $\langle 3 \rangle$ P502, $\langle 4 \rangle$ P504 FULL CCW. SET S2 ON. SET SG1 TO 0HZ.
 4.14 CONNECT DVM TO $\langle 11 \rangle$ TP509. MUST BE 0.00 \pm .010 VDC.
 4.15 SET SG1 TO 2000 \pm 2 HZ.
 4.16 TP509 MUST BE +1.98 \pm .030 VDC.
 4.17 SET SG1 TO 6000 \pm 6 HZ.
 4.18 TP509 MUST BE +5.95 \pm .07 VDC.
 4.19 SET SG1 TO 10,000 \pm 10 HZ.
 4.20 TP509 MUST BE +9.90 \pm .11 VDC.
 4.21 SET SG1 TO 10,000 \pm 10 HZ.
 4.22 SET S1 ON. CONNECT 0 TO 1 MA METER TO A5 TEST JACKS. SET $\langle 3 \rangle$ P502 FOR +1.0 \pm .01 MA.
 4.23 SET SG1 TO 6000 \pm 6 HZ.
 4.24 SET $\langle 3 \rangle$ P502 FOR +1.00 \pm .01 MA AT A5 TEST JACKS.
 4.25 SET SG1 TO 8000 \pm 8 HZ.
 4.26 SET $\langle 3 \rangle$ P502 FOR +1.00 \pm .01 MA AT A5 TEST JACKS.
 4.27 SET S1 OFF. SET SG1 TO 10,000 \pm 10 HZ.
 4.28 SET S3 ON. CONNECT 0 TO 1 MA METER TO A6 TEST JACKS. SET $\langle 2 \rangle$ P501 FOR +1.00 \pm .01 MA.
 4.29 SET SG1 TO 6000 \pm 6 HZ.
 4.30 SET $\langle 2 \rangle$ P501 FOR +1.00 \pm .01 MA AT A6.
 4.31 SET SG1 TO 8000 \pm 8 HZ.
 4.32 SET $\langle 2 \rangle$ P501 FOR 1.00 \pm .01 MA AT A6.
 4.33 SET S3 OFF. SET SG1 TO 10,000 \pm 10 HZ.
 4.34 SET S4 ON. CONNECT 0- TO 1 MA METER TO A7 TEST JACKS. SET $\langle 4 \rangle$ P504 TO 1.00 \pm .01 MA.
 4.35 SET SG1 TO 6000 \pm 6 HZ.
 4.36 SET $\langle 4 \rangle$ P504 TO 1.00 \pm .01 MA. AT A7.
 4.37 SET SG1 TO 8000 \pm 8 HZ.
 4.38 SET $\langle 4 \rangle$ P504 TO 1.00 \pm .01 MA. AT A7.
 4.39 SET S4 OFF. SET SG1 TO 4200 \pm 4 HZ.
 4.40 SET $\langle 1 \rangle$ P503 UNTIL K1 TURNS OFF. CW ON.
 4.41 SET SG1 TO 6825 \pm 7 HZ.
 4.42 SET $\langle 1 \rangle$ P503 UNTIL K1 TURNS ON, THEN JUST OFF.
 4.43 SET SG1 TO 5670 \pm 5 HZ.
 4.44 SET $\langle 1 \rangle$ P503 UNTIL K1 TURNS ON, THEN JUST OFF.
 4.45 SET SG1 TO 5620 \pm 5 HZ.

- 4.46 K1 MUST BE ON.
4.47 CONNECT SCOPE TO $\diamond 8$ TP503, NOISE MUST BE LESS THAN 50 MV.
4.48 CONNECT SCOPE TO ANODE OF CR503, NOISE MUST BE LESS THAN 50 MV.
4.49 CONNECT SCOPE TO ANODE OF CR508, NOISE MUST BE LESS THAN 50 MV.

TURN POWER OFF.