TEST INSTRUCTIONS

ASSEMBLY DRAWING	PC BOARD DRAWING
165A663AY	

SCHEMATIC DRAWING	TEST KIT
125D443AY	165A33AY

1.0 INSPECTION

.1 Identification	_____	.3 Solder/Wire	_____	.5 Key Slot	_____
.2 Comp./Case	_____	.4 Temp. Cycle	_____	.6	_____
				.7	_____

REMARKS:

2.0 BOARD SET-UP

2.1 ADD COMPONENTS AS SHOWN IN FIGURE 1. 4-33μF, 4702, 2-20K, 634K, 1K SEE STEP 5.14

3.0 TEST SET-UP

3.1 TURN POWER SWITCH OFF. _____
3.2 CONNECT +15 VDC, -15 VDC, +12 VDC, -12 VDC AND PS COMMON TO TEST KIT. _____
3.3 CONNECT UP PS1 (0 TO +10 VDC) TO PS1 TEST JACK, SET TO 0.0 VDC. _____
3.4 CONNECT UP +5 VDC SQUARE WAVE GENERATOR (SG1) TO SG1 TEST JACK, SET TO 0 HZ. _____
3.5 TURN S1 OFF, (LEFT POSITION). _____

4.0 BOARD TEST

4.1 PLUG BOARD INTO AY POSITION. _____
4.2 TURN POWER SWITCH ON. _____

5.0 SETP #:

5.1 TURN S1 OFF. READ +15 VDC CURRENT, 20 MA MAX. _____
5.2 READ -15 VDC CURRENT, 20 MA MAX. _____
5.3 READ +12 VDC CURRENT, 10 MA MAX. _____
5.4 READ -12 VDC CURRENT, 10 MA MAX. _____
5.5 TURN S1 ON. READ -15 VDC CURRENT, 60 MA MAX. _____
5.6 TURN S1 OFF. CONNECT DVM TO ⟨7⟩ TP903, SET SG1 TO 0 HZ. _____
5.7 TP903 SHOULD BE 0.00 ±0.10 VDC. _____
5.8 SET SG1 TO 2000 ±2 HZ. _____
5.9 TP903 SHOULD BE +1.98 ±.030 VDC. _____
5.10 SET SG1 TO 6000 ±6 HZ. _____
5.11 TP903 SHOULD BE +5.94 ±.070 VDC. _____
5.12 SET SG1 TO 10000 ±10 HZ. _____
.13 TP903 SHOULD BE +9.90 ±.11 VDC. _____
5.14 ADD A 1 K RESISTOR BETWEEN + END OF C902 (2) AND + END OF C905 (3). _____
SET ⟨3⟩ P901 FULL CCW. SET ⟨2⟩ P902 FULL CW. SET SG1 TO 0 HZ. _____
5.15 CONNECT DVM TO ⟨3⟩ TP905. SET PS1 FOR 0.0 ±.010 AT TP905. _____
5.16 CONNECT DVM TO ⟨2⟩ TP906. CHECK RANGE OF ⟨1⟩ P903, -3.3 TO +3.3 VDC. _____
5.17 SET ⟨1⟩ P903 FOR 0.0 ±.020 VDC AT TP906. _____

5.18
5.19 SET PS1 TO 0 VDC.
5.20 CONNECT DVM TO ◇6◇ TP908, SHOULD BE +.060 TO .200 VDC.
5.21
5.22 CONNECT DVM TO ◇7◇ TP903, SHOULD BE 0.0 TO ±.010 VDC.
5.23 CONNECT DVM TO ◇6◇ TP908, SET PS1 FO 0.0 ±.010 VDC AT TP908.
5.24 SET SG1 FOR +3.00 ±.010 VDC AT TP908.
5.25 CONNECT DVM TO ◇7◇ TP903, SHOULD BE +.93 ±.050 VDC.
5.26 TURN S1 ON. SET SG1 TO 0 HZ (WAVETEK POWER OFF).
5.27 TP903 SHOULD BE 0.0 ±.010 VDC.
5.28 CONNECT DVM TO ◇6◇ TP908, SET PS1 FOR 0.0 ±.010 VDC AT TP908.
5.29 SET SG1 FOR +3.00 ±.010 VDC AT TP908.
5.30 CONNECT DVM TO ◇7◇ TP903, SHOULD BE +1.86 ±.090 VDC.
5.31 TURN S1 OFF. SET SG1 FOR +5.00 ±.010 VDC AT TP 903.
5.32 SET PS1 TO +5.00 ±0.01 VDC.
5.33 CONNECT DVM TO ◇6◇ TP908, SHOULD BE -.75 TO +1.01 VDC.
5.34 SET S1 ON. TP908 SHOULD BE -.75 TO +1.01 VDC.
5.35 SET SG1 TO 0 HZ (WAVETEK POWER OFF).
5.36 SET PS1 FOR 0.0 ±.010 AT TP908.
5.37 CONNECT DVM TO ◇2◇ TP906, TRIM ◇1◇ P903 FOR 0.0 ±.020 VDC AT TP906.
5.38 CONNECT DVM TO ◇6◇ TP908. SET PS1 FOR -1.0 ±.010 VDC AT TP908.
5.39 CONNECT DVM TO ◇3◇ TP905. CHECK RANGE OF ◇3◇ P901, -.25 TO -.93 VDC.
5.40 CONNECT DVM TO ◇2◇ TP906, SET ◇3◇ P901 FOR +6.91 ±.010 VDC AT TP906.
5.41 REMOVE 1 K RESISTOR AT + END OF 902 TO + END OF C905.
5.42 SET SG1 TO +3.00 ±.010 VDC.
5.43 CONNECT DVM TO ◇6◇ TP908, CHECK RANGE OF ◇2◇ P902, -.18 TO -2.00 VDC.
5.44 SET ◇2◇ P902 FOR -1.16 ±.010 VDC AT TP908.
5.45 CONNECT DVM TO ◇5◇ TP904, -12 VDC MAX.
5.46 CONNECT DVM TO ◇7◇ TP903, SET SG1 FOR +6.00 ±.020 VDC AT TP903.
5.47 CONNECT DVM TO ◇6◇ TP908, SHOULD BE +1.16 ±.050 VDC.
5.48 CONNECT DVM TO ◇5◇ TP904, +12 VDC MAX.
5.49 CONNECT SCOPE TO ◇7◇ TP903, NOISE MUST BE 50 MV MAX.
5.50 CONNECT SCOPE TO ◇5◇ TP904, NOISE MUST BE 50 MV MAX.
5.51 CONNECT SCOPE ◇2◇ TP906, NOISE MUST BE 50 MV MAX.
POWER TO OFF.
S1 TO OFF (LEFT).
SG1 TO 0 HZ (OFF).
PS1 TO 0.0 VDC.

GENERAL ELECTRIC

125D460 AY

REV NO. A B C

TITLE CIRCUIT BOARD ASM

CONT ON SHEET 2 SH NO. 1

PARTS LIST FOR

CONT ON SHEET SH NO.

FIRST MADE FOR DA226000

RECEIVED FEB 14 1983 PROD. CONTROL BLDG. 17/M1

GROUP NO. AND QUANTITY						PART NO.	NAME	DRAWING NO., DESCRIPTION, MATERIAL, WEIGHT	
				2	1				
				1	X	1	ASSY GR.1		
				X		2	ASSY GR.2		
					X	3	WAVE SOLDER	P18A-AM1	
					X	4	TEST INST	165A663BF	
					X	5	TEST INST	165A663AY	
				X	X	6	ELEMENTARY DIAG	125D443AY	
				X		7	COATING INST	P6C-AF7	
				AR		8	INK	165A658EB P.1	
				X		9	KEYING INST	165A662AB P.4	
				X	X	10	COMPONENT ASM	165A662AA	
					1	11	CIRCUIT BD	125D461AY P.1	
					8	12	TERMINAL	165A658CA P.2	TP901-908 TEST POINT
				2		13	EJECTOR	165A658AR P.1	
					1	14	CONNECTOR	165A658AX P.3	JP901
					2	15	TRIM POT	165A658BB P.7	R901, 902
					1	16	TRIM POT	165A658BB P.6	P903
					2	17	RESISTOR	165A658AY P.443	R901, 902
					3	18	RESISTOR	165A658AY P.368	R906, 912, 913
					5	19	RESISTOR	165A658AY P.430	R903, 904, 909, 916, 917
					2	20	RESISTOR	165A658AY P.401	R910, 911
					1	21	RESISTOR	165A658AY P.201	R914
					1	22	RESISTOR	165A658AY P.450	R915
					1	23	RESISTOR	165A658AY P.418	R920
					1	24	RESISTOR	165A658AY P.239	R921
					1	25	RESISTOR	165A658AY P.501	R922
					2	26	CAPACITOR	165A658BA P.92	C903, 904
					1	27	CAPACITOR	165A658BA P.51	C906

DESCRIPTION OF GROUPS

GR 1 (WAVE SOLDER ASM)
GR 2 (FINAL ASM)

REVISIONS

A E Rankin 1-3-77 CN76-8508
DELETE QTY (X) FROM P.5, GR2
B GDION 11-13-78 CN78-18223
P.19 WAS QTY (1) R909 IN GR.1
C J Raley 12/30/82
TAB "PRINTS" RW973 WAS RW219A
ADDED REV STATUS

PRINTS TO

12G	
14E	
11V	
RW973	

REV STUTUS

REV	C	D	G		
SHT	1	2	3	4	5

MADE BY E Rankin 12-31-75

ISSUED R. LEBLANC 1-9-76

APPROVALS DFB 1-8-76

MDT DIV. OR DEPT

FITCHBURG LOCATION

PARTS LIST FOR 125D460AY

CONT ON SHEET 2 SH NO. 1

FF-801-F (12-74)
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REV NO. A B C D

PARTS LIST FOR

CONT ON SHEET SH NO.

TITLE CIRCUIT BOARD ASM

125D460AY

CONT ON SHEET 3 SH NO. 2

FIRST MADE FOR DA226000

GROUP NO. AND QUANTITY						PART NO.	NAME	DRAWING NO., DESCRIPTION, MATERIAL, WEIGHT	
					2	1			
						1	28	RECTIFIER	165A658XC P.1 CR901
						2	29	DIODE	165A658DE P.1 CR902,903
						1	30	DIODE	165A658DC P.1 CR904
						3	31	AMPLIFIER, OPR	165A658DA P.1 IC902-IC904
						1	32	RELAY	165A658BC P.2 K901 (FOR RELAY)
						1	33	SPACER	165A665ABP.1
						4	34	SPACER	165A665AD P.1
						9	35	SPRING SOCKET	165A658FC P.2
						16	36	STANDOFF	165A658CA P.2
					AR		37	SOLDER	165A665DC P1
					~~X~~		38	~~RESISTOR~~	~~ML IT JG2 P.57 R903~~
					~~X~~		39	~~RESISTOR~~	~~ML IT JG2 P.57 R904~~
					X		40	RESISTOR	ML IT JG2 P.58 R905
						1	41	RESISTOR	165A658AY P353 R907
						1	42	RESISTOR	165A658AY P550 R908
					~~X~~		43	~~RESISTOR~~	~~ML IT JG2 P.61 R916~~
					~~X~~		44	~~RESISTOR~~	~~ML IT JG2 P.61 R917~~
					~~X~~		45	~~RESISTOR~~	~~ML IT JG2 P.62 R918~~
						1	46	RESISTOR	165A658AY P301 R919
					X		47	RESISTOR	ML IT JG2 P.65 R923
					X		48	RESISTOR	ML IT JG2 P.66 R924
						1	49	CAPACITOR	165A658BA P78 C901
					X		50	CAPACITOR	ML IT JG2 P68 C902
					X		51	CAPACITOR	ML IT JG2 P.69 C905
					X		52	CAPACITOR	ML IT JG2 P.70 C907
					X		53	CAPACITOR	ML IT JG2 P.71 C908
						2	54	CAPACITOR	165A658BA P88 C909,910

RECEIVED
FEB 14 1983
PROD. CONTROL
BLDG. 1778M1

DESCRIPTION OF GROUPS

REVISIONS

A G DION 3-18-76 CN76 8095
PT 33 QTY WAS 4 & NAME WAS WASHER

B S.PAYBURN 2-15-77 CN77-1 8023 GR1
P37 WAS B20C13E2

C G DION 11-13-78 CN785 8223
PT 36 WAS QTY (4) IN GR.1; DELETE P.38,39,43,44,45,41,42,46,49

REV C (CONT) #54 QTY (X) IN GR.2; ADD QTY (1) TO P41,42,46,49, IN GR.1 ADD QTY (2) TO P54 IN GR1 P.41,42,46,49 & 54 WAS ML IT JG2 P.59,60,64,67 & 72 RESPECTIVELY

D J Raley 12/30/82
TAB PRINTS RW973 WAS RW219A

PRINTS TO

12G	
14E	
11V	
RW973	

MADE BY E Rankin 12-31-75

ISSUED R. LEBLANC 1-9-76

APPROVALS DD 1-8-76

MDT DIV. OR DEPT

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PARTS LIST FOR 125D460AY

CONT ON SHEET 3 SH NO. 2

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GENERAL ELECTRIC

PARTS LIST FOR 125D460AY

REV. NO. ABCDEFG

PARTS LIST FOR-

CONT ON SHEET ~ SH NO. 3

TITLE CIRCUIT BOARD ASM

CONT ON SHEET SH NO.

FIRST MADE FOR DA226000

GROUP NO. AND QUANTITY 2	1	PART NO.	NAME	DRAWING NO., DESCRIPTION, MATERIAL, WEIGHT
*		55	~~CAPACITOR~~	~~ML IT 162 P73 C911~~
	2	56	CAPACITOR	165A658 BA P69 C911,912
*		57	~~CAPACITOR~~	~~ML IT 162 P15 C902~~
1		58	CONVERTER	165A658BE P.1 1C901
*		59	~~JUMPER~~	~~ML IT 162 P76 JP901 902~~
X		60	SOLDER INST	P18KAF2
X		61	PROCESS INST	P24CAFIG (REF. INST PT.# I)
AR		62	COMPOUND	165A206 BY PI
AR		63	COATING	165A658ECP1
AR		64	COATING	165A658ECP2
X	X	65	PROCESSINST	P3K-AF2 (TEMP CYCLE COMP)
	X	66	TEST INST	165A370MR1 (TEMP CYCLE P.C. BD)

RECEIVED FEB 14 1983 M.E. CONTROL M.J.B. 177M1

RECEIVED FEB 14 1983 M.E. CONTROL M.J.B. 177M1

REVISIONS

F D Chapman CN 81-8267 4-8-81 ADDED PT 65 TO GRS 1 & 2 ADDED PT 66 TO GR 1 LN

G J Raley 12/30/82 TAB "PRINTS" RW973 WAS RW219A

D D WILDER MAY-15 CN78-9137 1928 5/R ADDED PT 63 & 64

E G DION 1-13-78 CN78 L8223 DELETE P.55, 56, 57 & 59 QTY (X) FROM GR.2; ADD QTY (2) TO P56 IN GR.1; P55, 56, 57 & 59 WERE (ML IT 162 P.73, 74, 75 & 76 RESPECTIVELY

A G DION 5-1-76 CN76-8172 ADD P18KAF2 TO PT 60 WAS (LATER) 5/R

B E Rankin 1-3-77 CN 76-8508 ADD P.61 TO GR.2

C W. SAFFORD 3-7-77 CN 77-8102 5/R ADD PT. 62 QTY. AR, GR. 2

PRINTS TO

12G	
14E	
11V	
RW973	

MADE BY E Rankin 12-31-75

ISSUED R. LEBLANC 1-9-76

APPROVALS DFB 1-6-76

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PARTS LIST FOR: 125D460AY

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