SIZE		SHEET	REV
A	165A663F X	1	

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED

Corrected
4-24-84
S.I.

REV.																
SHEET																
REV. STATUS	REV.															
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:

FRACTIONS ± | DECIMALS ± | ANGLES ±

ALL SURFACES ✓

MATL-

SIGNATURES	DAY	MO	YR
DRAWN T. PULEOWSKI	15	4	81
CHECKED			
ISSUED S. MINCO	24	4	81
ENGRG			
MFG			
MATLS			

GENERAL ELECTRIC
MDTPD DEPT LOC FITCHBURG

LYNN TEST INSTRUCTIONS FOR
PC BOARD-125D460FX

SIZE	CODE IDENT NO.	
A	03502	165A663FX

SCALE ~ | REV. | SHEET 1

C9-3626 (9-71)

DIST 701 126, RW 219A

1. Scope

These instructions are issued to test the circuit board assembly 125D460FX-1 for proper operation, and to adjust the circuit board prior to cabinet assembly.

2. Precautions

The following precautions shall be observed during the testing of the circuit board assembly:

2.1 Be sure power supplies are set to the proper voltage before connecting to the circuit.

2.2 Turn off power supplies when connecting or disconnecting from the circuit.

2.3 Be sure the voltmeter is set to the proper scale before connecting to the circuit.

2.4 Be careful not to cause short circuits while making or removing connections from the circuit.

2.5 Turn off all power supplies while making or removing connections from the circuit.

DIST. TO: 12G, RW219A

D503/O-11

3. General

CONNECT UP 460FX CABLE

3.1 Connect the test circuit of Figure 1.

3.2 Apply power to the circuit and verify the following:

+5 M1 reads 725ma Max (SPF relay in reset mode)
+15 M2 reads [illegible]ma Max 70 MA MAX.
-15 M3 reads 60ma Max
-12 M4 reads 8ma Max

4. Speed pickup redundancy, failure alarm, and speed setback circuits.

4.1 Clip lead in the following components:

C737 ..... 330µf @ 6VDC
R734 ..... 12.4K Ohm

4.2 Adjust the signal generator for a 2500 Hz 5 volt peak to peak unipolar pulse train.

4.3 With S1, S2, and S3 ~~closed~~ OFF ON check that the following conditions exist:

LED 1 is ON
LED 2 is ON
LED 3 is OFF RESET USING S4 IF REQUIRED
LED 4 is ON
2.5 kHz pulse train at TP703
Slowly adjust 2500 Hz to 100 Hz, Test LED 3 should not be on.

4.4 Turn on S2 and check that the following conditions exist:

LED 1 is ON
LED 2 is OFF
LED 3 is ON AFTER DELAY
LED 4 is ON
2.5 KHz pulse train at TP703
TP707 is 2.40 volts min
TP711 is 0.80 volts max

TURN OFF

4.5 ~~Close~~ S2 and verify that LED 3 turns off when S4 is temporarily opened. Confirm that TP707 and TP711 remain unchanged from step 4.4.

NOTE: Switch S2 and S4 simultaneously, otherwise TP707 & TP711 will not change.

DIST. TO: 12G, RW219A

GENERAL ELECTRIC MDTD FITCHBURG	SIZE A	~~CODE IDENT NO~~	165A663FX
DRAWN TA Fancy, 11/19/75			
~~CHECKED~~ S.Minto 4/24/81	SCALE ~		SHEET 3

DIST TO

4.6 TURN ON Open S1 and check that the following conditions exist:

LED 1 is OFF
LED 2 is ON
LED 3 is ON AFTER DELAY
LED 4 is ON
2.5 KHz pulse train at TP703
TP707 is 0.80 volts max
TP711 is 2.40 volts min

4.7 TURN OFF Close S1 and verify that LED 3 turns off when S4 is temporarily opened. TURN ON Confirm that TP707 and TP711 remain unchanged from step 4.6. (see step 4.5)

4.8 TURN ON Open S1 and S2 and check that the following conditions exist.

LED 1 is OFF
LED 2 is OFF
LED 3 is ~~ON~~ OFF (won't come on if S1 & S2 switched ON togeth
LED 4 goes out after a delay of about 3 seconds

4.9 TURN OFF S1 AND S2, LED 1, 2 & 4 ON

5. Operator Loop Circuits

TP714 TURN SB OFF ~~LED 4 OFF~~ No change

5.1 Adjust PS5 to 1.48±.01 volts.

5.2 Rotate P701 fully CW and verify that TP708 is 2.03±.46 volts.

5.3 Rotate P701 fully CCW and verify that TP708 is 4.58±1.11 volts.

TP713

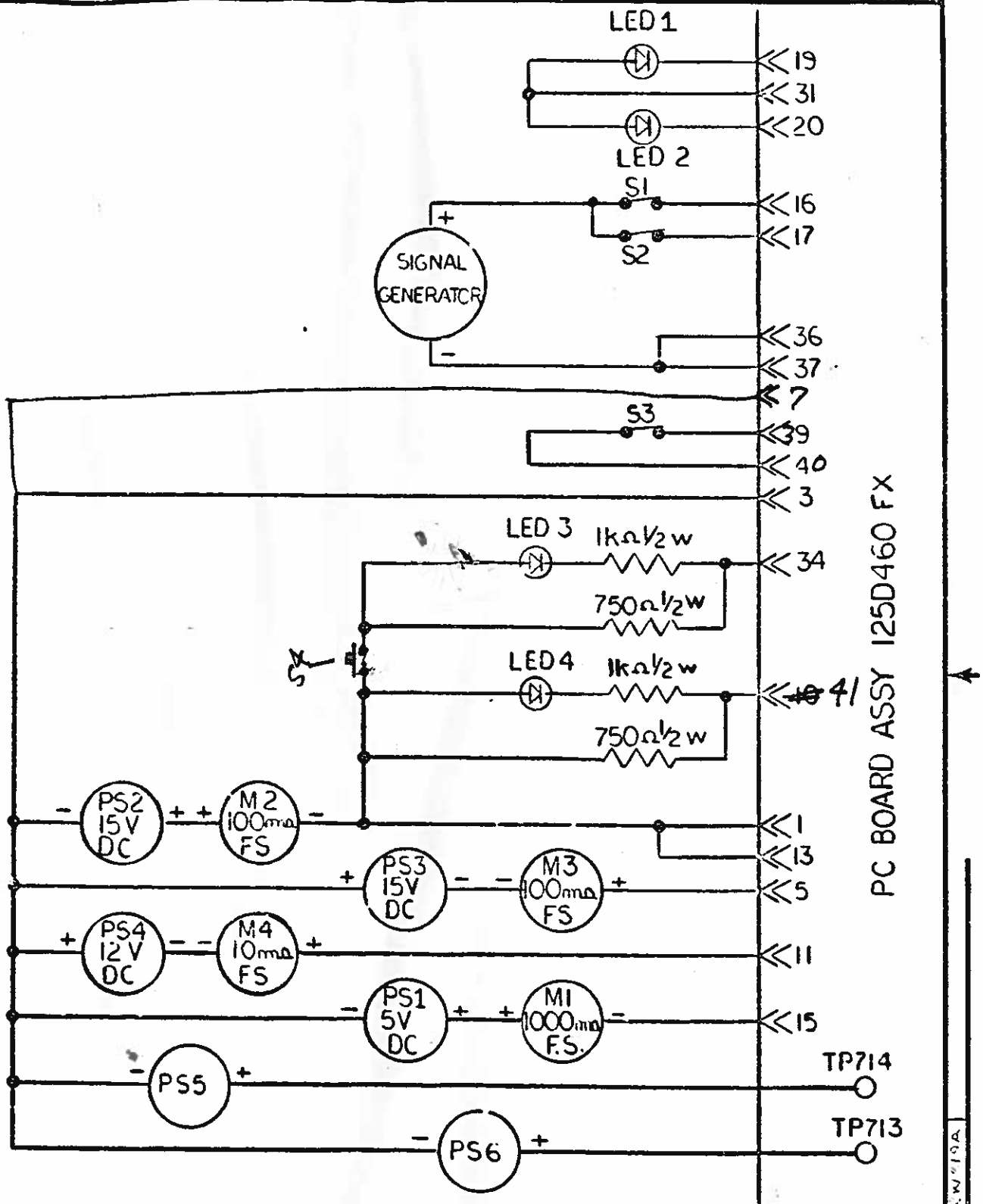
5.4 Adjust PS6 to 1.48±.01 volts.

5.5 Rotate P702 fully CW and verify that TP709 is 1.64±.36 volts.

5.6 Rotate P702 fully CCW and verify that TP709 is 4.18±1.02 volts.

5.7 With the oscilloscope in the AC mode at 50mv/div., verify that there is less than 50mv of noise at TP708 and TP709.

DIST. TO: 12G, RW219A



GENERAL ELECTRIC MECH DEPT KB LOU FRANKFURT	SIZE A	CODE IDENT NO.	TEST INSTR FOR CIRCUIT BOARD ASSY 125D460FX
DRAWN C Reed 4-15-81			
ISSUED S. MINKO APRIL 24, 1981	SCALE ~	165A663FX	SHEET 5

DIST TO LEG LWP19A

AF 15-80) PRINTED IN U.S.A.