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SERVICE MANUAL

MODEL 250FC

ALIGNMENT PROCEDURE

A). FREQUENCY COUNTER SECTION.

1. Connect test equipments pursuant to Fig 2.
2. Set Power Swicth ON and then indicates "0" on the display by setting of frequency HIGH/LOW switch at LOW position.

Remark: It is indicated an irregular numbers sometimes but is it not wrong. It appers correct indication when regular input level supplied.

3. Transmit(input) a signal and then the frequency counter indicates it"s frequency.

At this time, adjust TRIMMER on the PCB FC-60 and set it to the frequency as the same frequency which apperd on the Standard Frequency Counter.

LOW Frequency Display Section can be indicated from 1MHz to 99.999MHz.

HIGH Frequency Display Section can be indicated over the figure of 100MHz and upto 250MHz.

Complements:

1. The indication is zero(0) suppress.
2. A decimal point on the frequency display has also over flow lamp function and if supplied over 100MHz under the LOW frequency set position, the decimal point will notify by it's lighting.
3. The frequency counter indicates the numbers by discard ignore fractions and so it has little flickering but care for having arise of quantigation error.

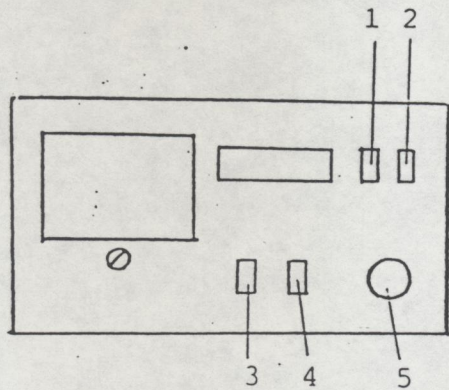
B). FM MODULATION SECTION.

1. Connect test equipments pursuant to Fig 2.
2. Set POWER-SWR/FS-FM MOD Switch to FM MOD position.
3. Transmit(input) 27MHz signal by FM modulated and then meter pointer will swing.
At this time, set the pointer to it's peek position by adjusting of alignment coil on PCB FC-54 and then set the pointer to the same position as the pointer of the beeline detector.

C). RF POWER SECTION.

1. Connect test equipments pursuant to Fig 3.
2. Set POWER-SWR/FS-FM MOD Switch to POWER position.
3. Transmit(input) 27MHz signal(non modulation or FM modulation). Adjust semi-fixed VRs and set each power range as the same meter pointer position as the standared power meter.

100W range	-	by adjustment of VR301 on PCB FC-53.
10W "	-	" " " VR302 " " "
1W "	-	" " " VR303 " " "



1. RF POWER SELECT SWITCH.
2. FUNCTION SELECT SWITCH
3. POWER ON/OFF SWITCH.
4. FREQUENCY HI/LOW SELECT SWITCH.
5. SWR/FS SET SWITCH.

FIG 1.

FM S.S.G. or
TRANSCEIVER

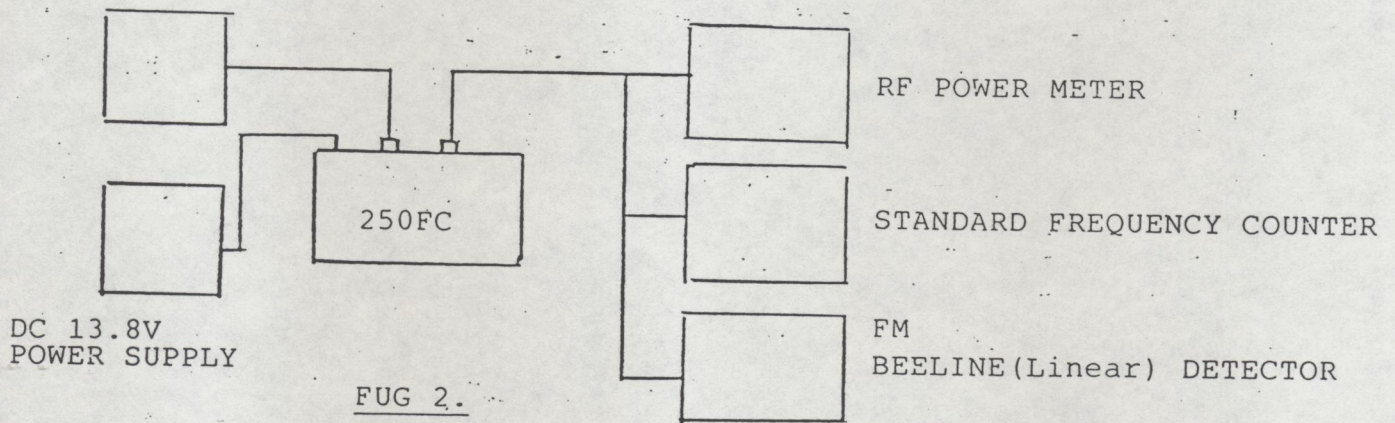


FIG 2.

FM S.S.G. or
TRANSCEIVER

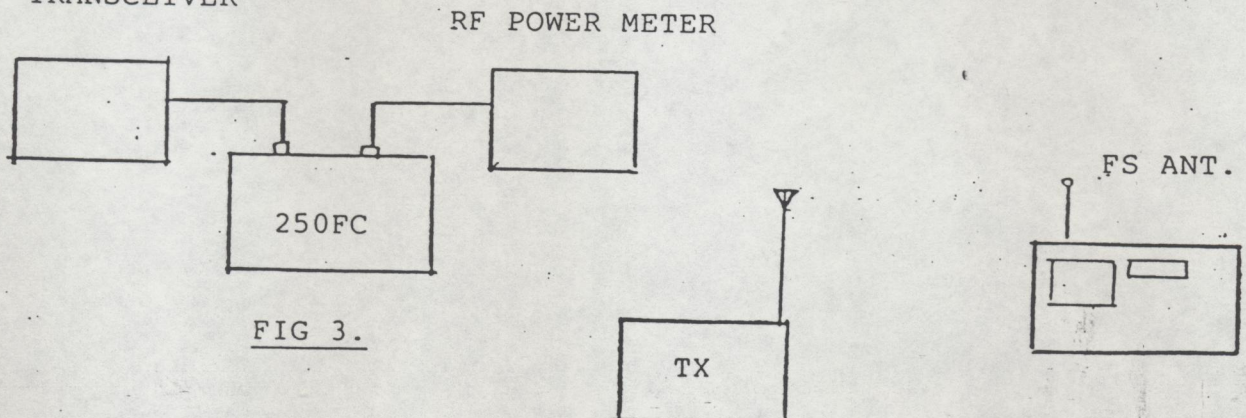
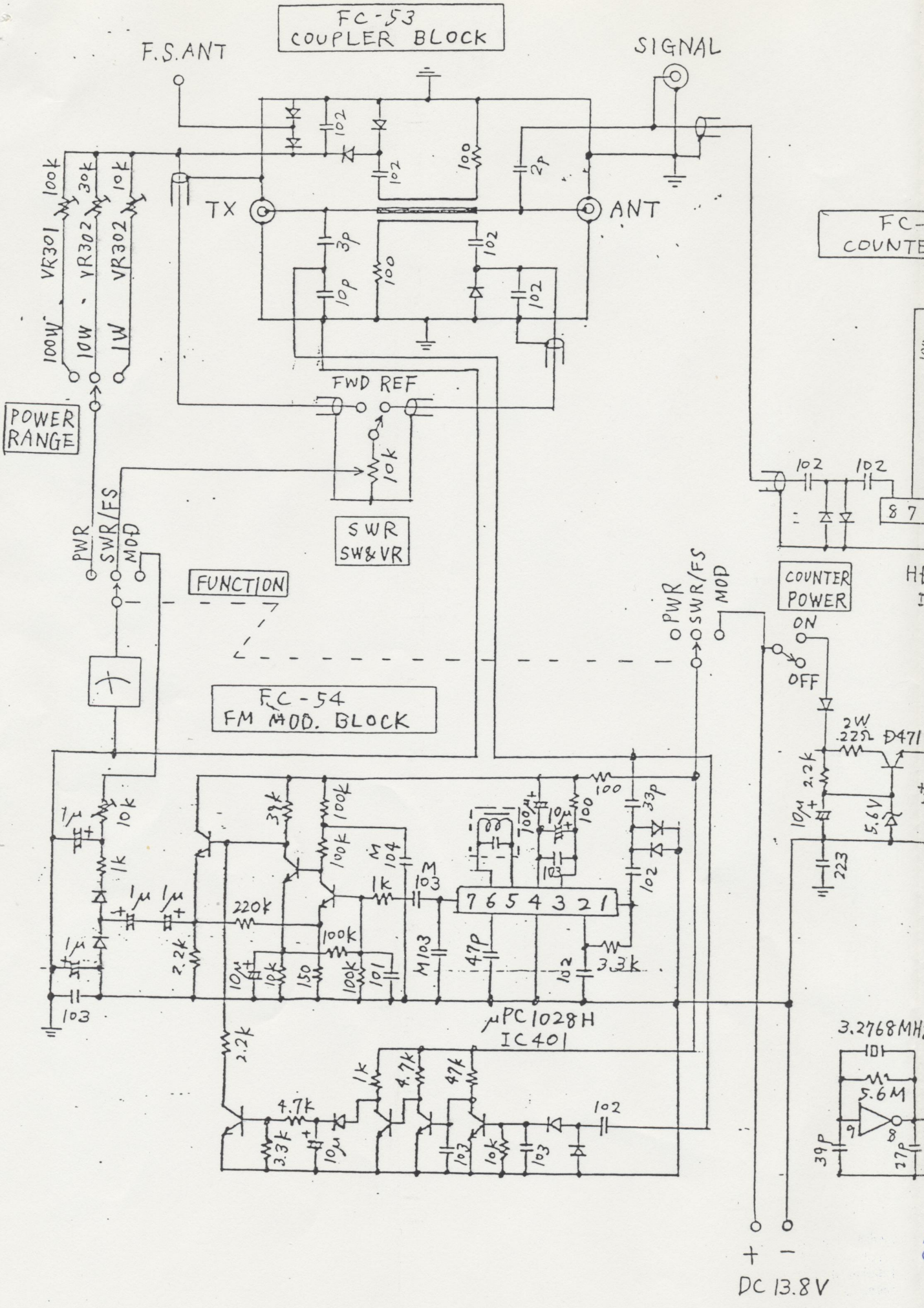


FIG 3.



LED DISPLAY
TLR-312 x 5

a f g b 5 c d e 4 3 2 1

DP1 DP2 DP3

FC-60
COUNTER BLOCK

16 15 14 13 12 11 10 9
45 11 IC103
1 2 3 4 5 6 7 8

14 13 12 11 10 9 8 7 6 5 4 3 2 1
TC 5032
IC102
15 16 17 18 19 20 21 22 23 24 25 26 27 28

8 7 6 5 4 3 2 1

HD10551
IC101

COUNTER
POWER

ON
OFF

IC106
4069

3.2768MHz

8 7 6 5 4 3 2 1
4020 IC105
9 10 11 12 13 14 15 16

8 7 6 5 4 3 2 1
4518 IC104
9 10 11 12 13 14 15 16

FREQ
RANGE

HIGH
LOW

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MODEL 250 FC

86, 1

DC 13.8V

