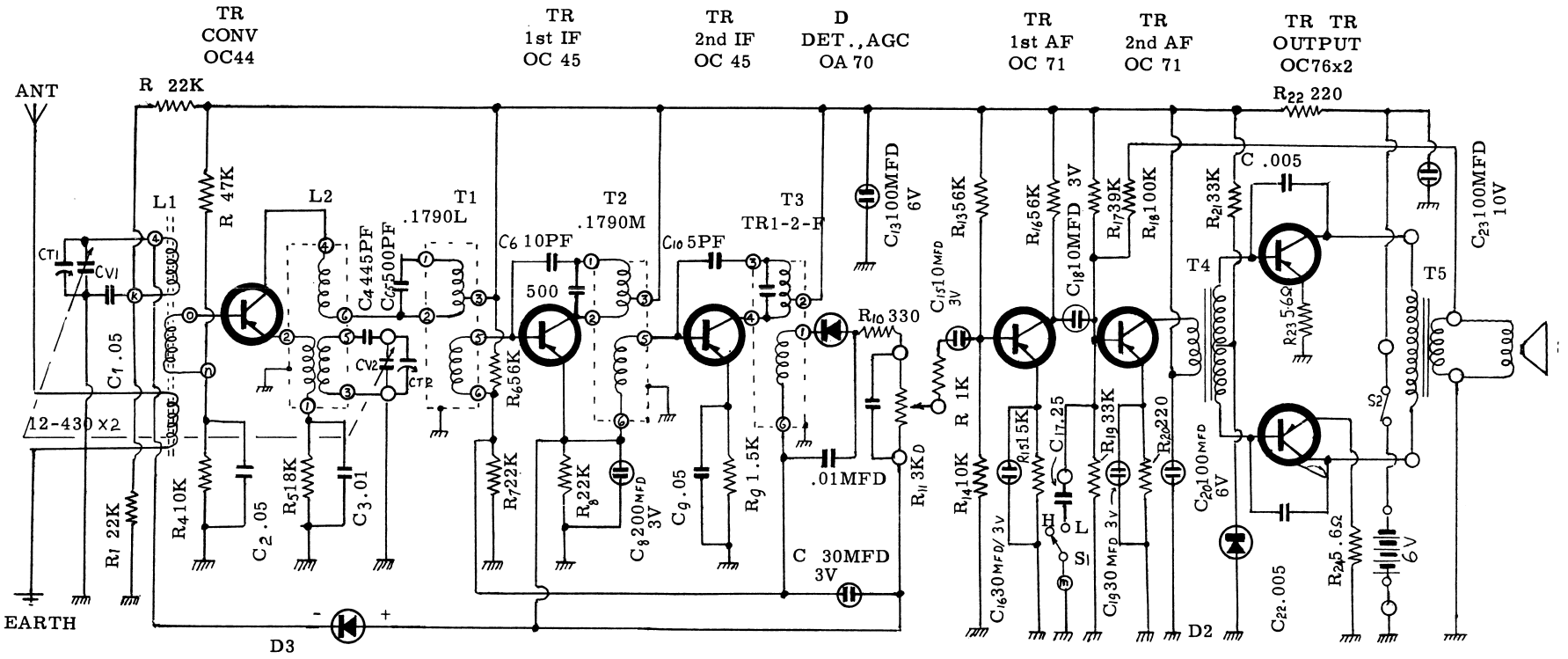
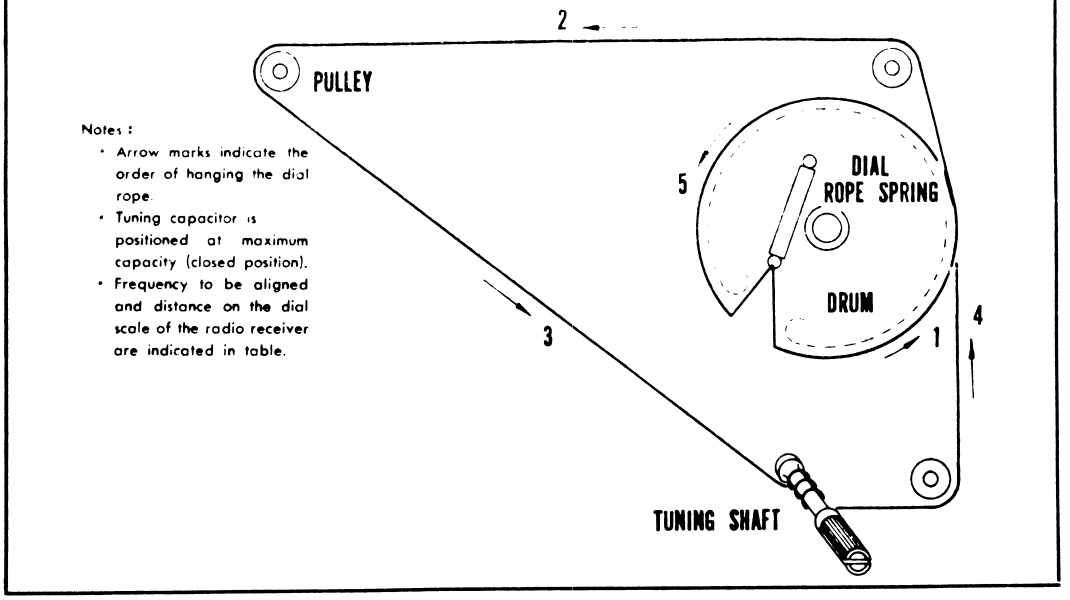

TR
CONV
OC44
TR
1st IF
OC 45
TR
2nd IF
OC 45
D
DET., AGC
OA 70
TR
1st AF
OC 71
TR
2nd AF
OC 71
TR TR
OUTPUT
OC76x2
ANT
R 22K
R 47K
L1
L2
T1
.1790L
T2
.1790M
T3
TR1-2-F
C6 10PF
C10 5PF
500
C4 445PF
C5 500PF
CT1
CV1
CV2
CT2
C1 .05
12-430 x2
R1 22K
R4 10K
C2 .05
R5 18K
C3 .01
R6 56K
R7 22K
R8 22K
C8 200MFD 3V
C9 .05
R9 1.5K
R10 330
.01MFD
R11 3KΩ
C 30MFD 3V
C13 100MFD 6V
C15 10MFD 3V
R13 56K
R14 10K
R 1K
R16 56K
R15 15K
C17 .25
H
L
S1
C18 10MFD 3V
R17 39K
R18 100K
R19 33K
R20 220
C19 30MFD 3V
C16 30MFD/3V
C20 100MFD 6V
D2
R21 33K
C .005
T4
R23 56Ω
R22 220
T5
S2
C22 .005
R24 5.6Ω
6V
C23 100MFD 10V
EARTH
D3
D.A.G.C.
OA 70
A.O.C.
MA 23 B

DB - 411

DIAL CORD DRIVE MECHANISM



Notes :

- Arrow marks indicate the order of hanging the dial rope.
- Tuning capacitor is positioned at maximum capacity (closed position).
- Frequency to be aligned and distance on the dial scale of the radio receiver are indicated in table.

ALIGNMENT PROCEDURE

Frequency Alignment of Dial Scale	
Frequency	Distance
600 KC	16.7 mm
1500 KC	84.4 mm

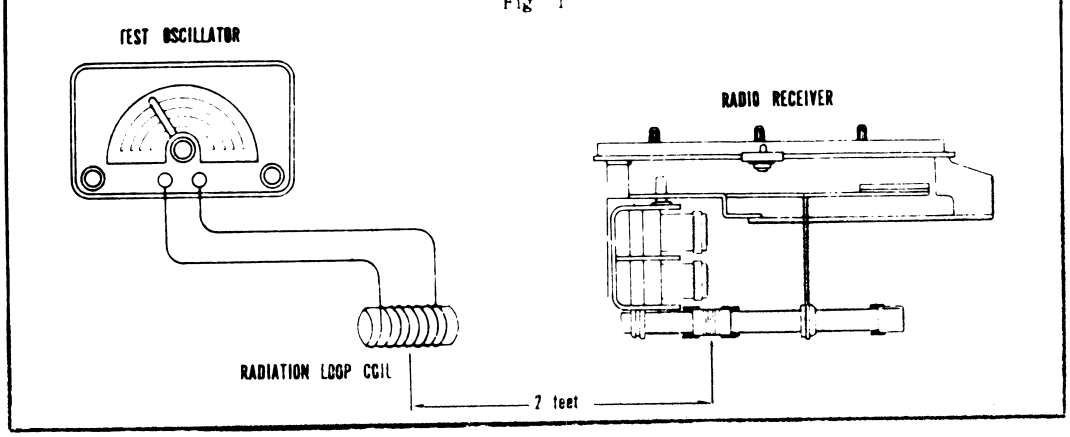
OUTPUT METER ..... Connect Output Meter across speaker voice coil terminals.

OUTPUT LEVEL ..... Attenuate Test Oscillator output always to maintain 0.5 volt on Output Meter to prevent overloading of the receiver.

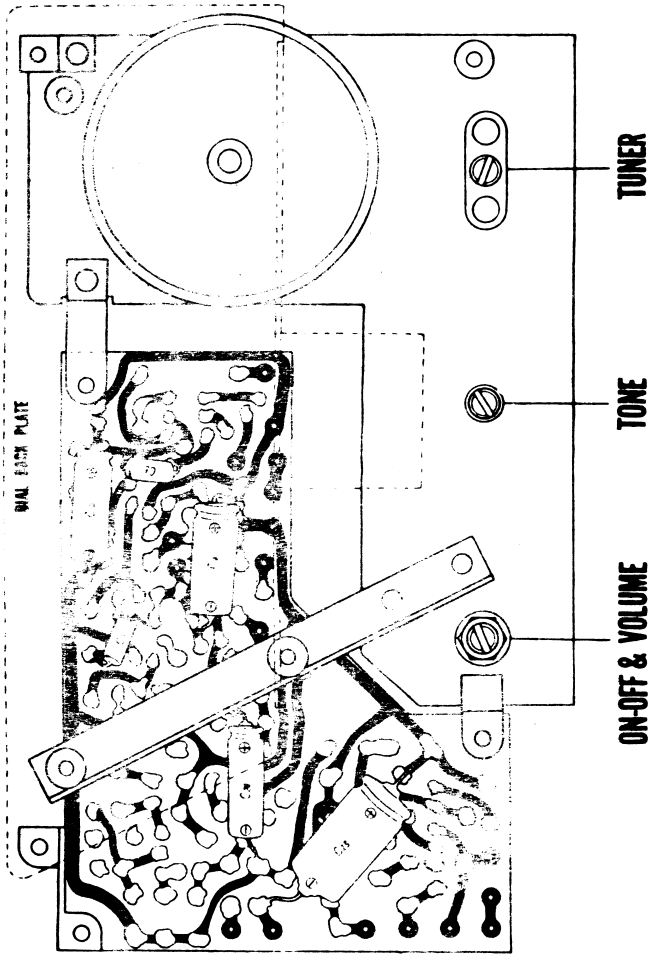
TEST OSCIALLATOR .. Modulate Test Oscillator at 400 c/s and connect the earth lead wire of Test Oscillator output to receiver chassis board. Adjust the output of Test Osciallator so as to read the output of the radio receiver at around the maximum volume.

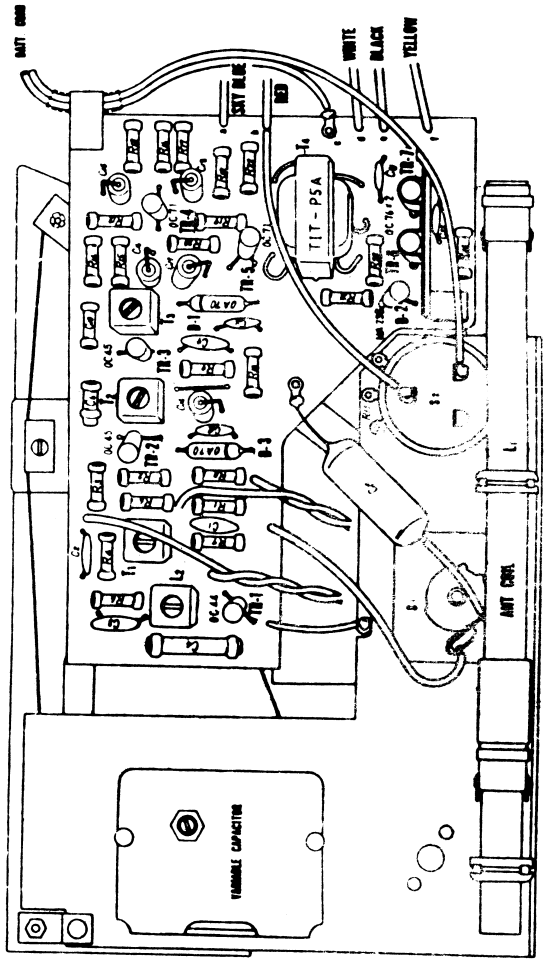
Test Oscillator			Radio Receiver	
Step	Connection to radio receiver	Dial setting	Dial setting	Adjusting to maximum output
1	Use radiation loop coil. (See Fig. 1.)	455 KC	Quiet point 530 KC	Screws of T_1, T_2 & T_3
2		600 KC	600 KC	Screw of L_2 L_1 inductance
3		1500 KC	1500 KC	Screw of CT_2 Screw of CT_1
4		600 KC & 1500 KC	600 KC & 1500 KC	Repeat steps (2) and (3).
5	Repeat steps 2~4 necessary.			

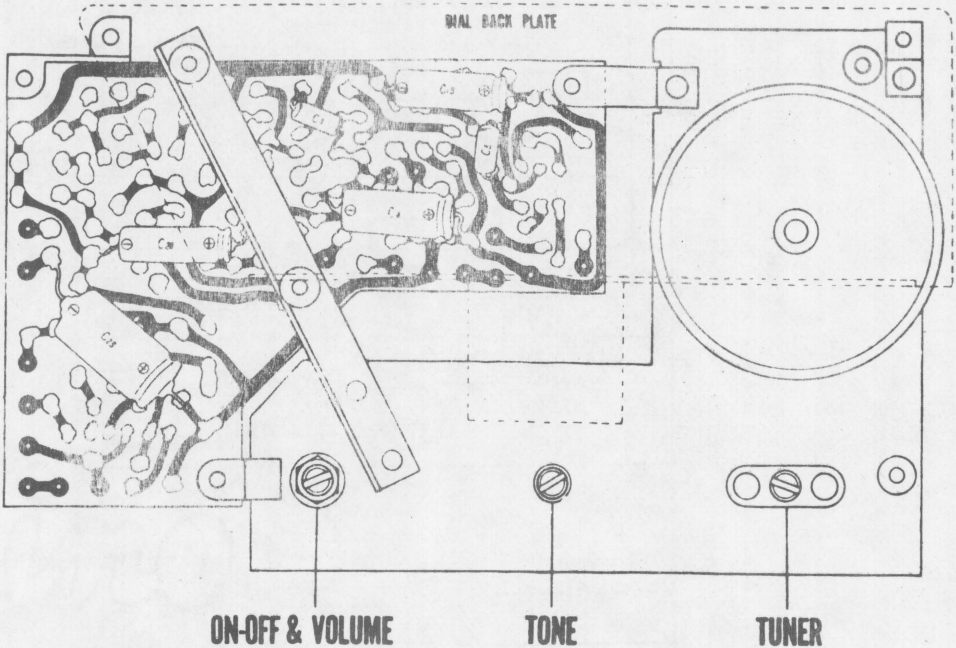
Fig 1



NATIONAL MODEL DB-411






DIAL BACK PLATE
ON-OFF & VOLUME
TONE
TUNER