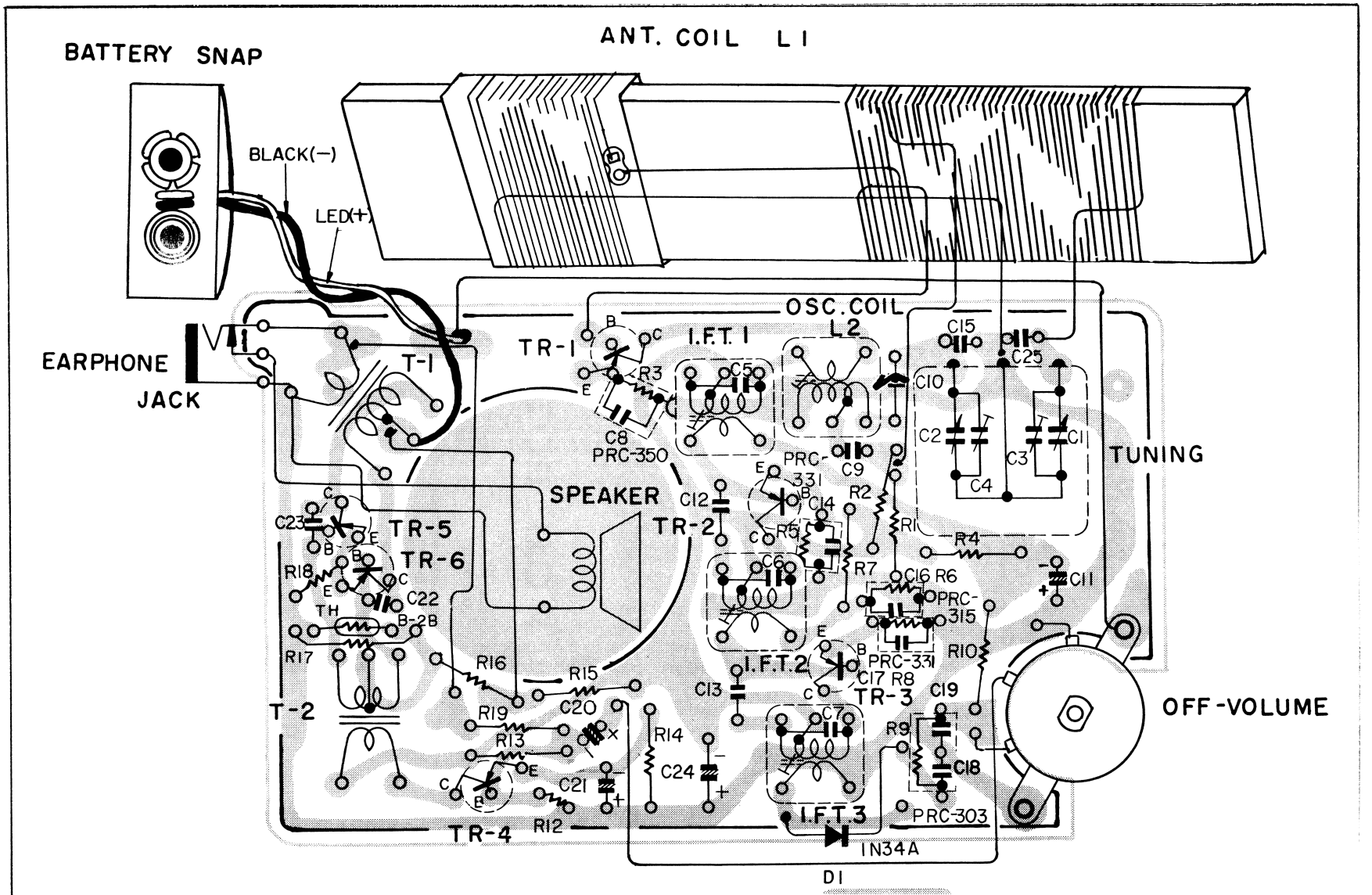
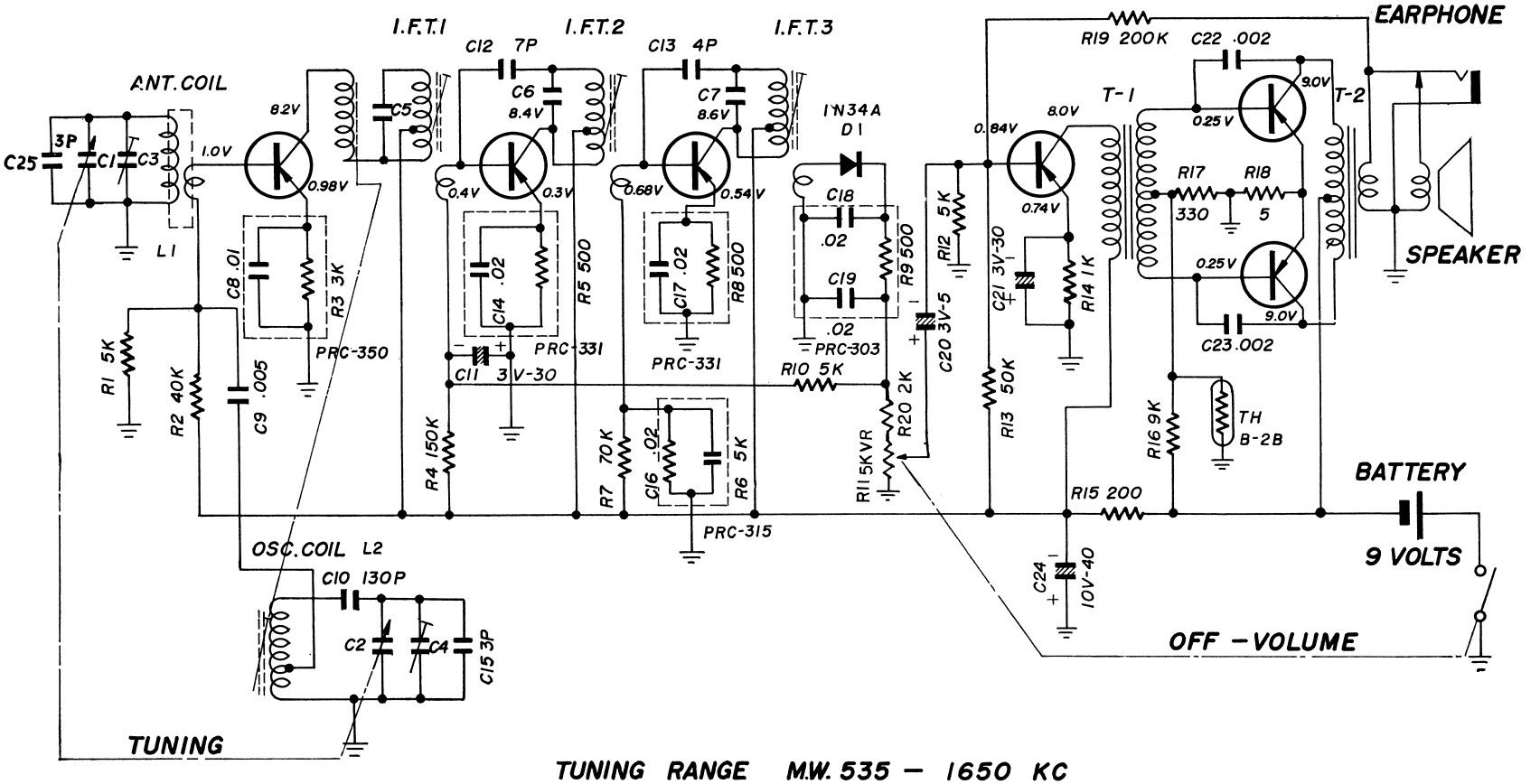
BOTTOM VIEW OF PRINTED CIRCUIT BOARD



TR-1 2SA15 | TR-2 2SA12A | TR-3 2SA12C | TR-4 2SB75 | TR-5,6 2SB77 x2



TUNING RANGE M.W. 535 – 1650 KC

I.F. 455 KC

COMPOUND PARTS

C UNIT μF

R UNIT Ω

SPECIFICATIONS

Circuit :	6-transistor, 1-band
	Superheterodyne System
Tuning Range :	530~1650 KC
Output :	Max. : 140mW
	No distortion 90mW
Power Source :	BL—006P (9V) or equivalent × 1 piece
Speaker :	2⅜″ Permanent Dynamic Speaker 10 ohms
Earphone :	MR-1A low impedance
	magnetic earphone
Dimensions :	4½″(W)×1¼″(D)×2⅝″(H)
Weight :	0.5 lbs.

ALIGNMENT INSTRUCTIONS

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

1) Connect an output meter across the speaker voice coil lugs.
2) Set volume control for maximum.
3) Use lowest setting of signal generator capable of producing adequate indication on lowest scale of output meter.
4) Use a non-metallic alignment tool.
5) Repeat adjustments to insure good results.

ALIGNMENT CHART

AM Alignment			Signal generator	Receiver		Adjust
Step	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks	
1	M.W.	Connect signal generator through a 10KΩ dummy to the antenna tuning condenser. Ground lead to the receiver chassis.	Exactly 455KC. (400%, 30%, AM modulated.)	Tuning gang fully open. (minimum capacity)	Adjust for maximum output on speaker voice coil lugs.	3rd-IF Trans. core (Black) 2nd-IF Trans. core (White) 1st-IF Trans. core (Yellow)
2	M.W.	Use radiating loop. Loop of several turns of wire, or place generator lead close to receiver for adequate signal pickup. Connect generator output to one end of this wire.	Exactly 525KC. (400%, 30%, AM modulated.)	Tuning gang fully closed. (maximum capacity)	Same as step 1	MW Oscillator core (L2)
3	M.W.	Same as step 2	Exactly 1650KC. (400%, 30%, AM modulated.)	Tuning gang fully open. (minimum capacity)	Same as step 1	MW Oscillator trimmer (C4)
4	M.W.	Same as step 2	Exactly 600KC. (400%, 30%, AM modulated.)	600KC.		MW Antenna coil (L1)
5	M.W.	Same as step 2	Exactly 1400KC. (400%, 30%, AM modulated.)	1400KC.	Same as step 4	MW Antenna trimmer (C3)
6	M.W.	Repeat steps 2, 3, 4 and 5 until no further improvement is obtained.				

NOTICE :

Check alignment of receiver antenna coil by bringing a piece of powdered iron (such as a coil slug) near the antenna loop stick, then a piece of brass. If powdered iron increases output, loop requires more inductance. If brass increases output, loop reqiures less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.