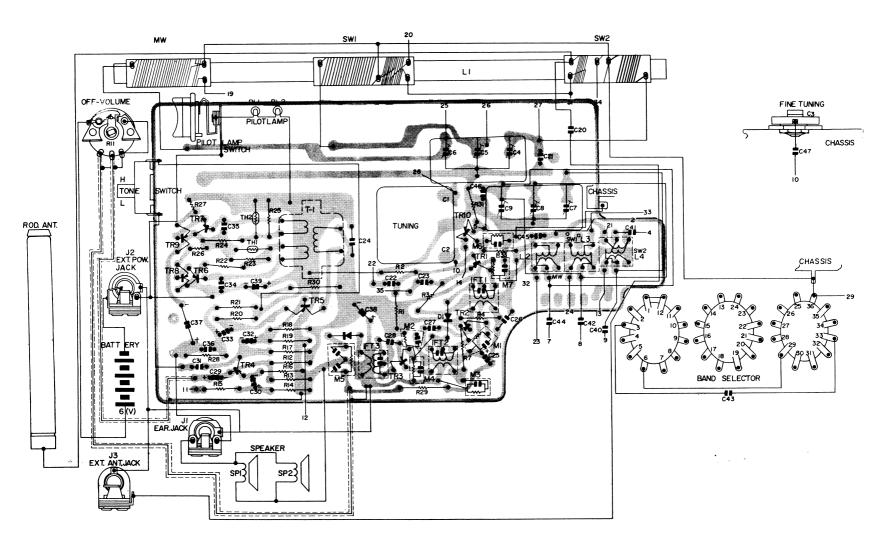
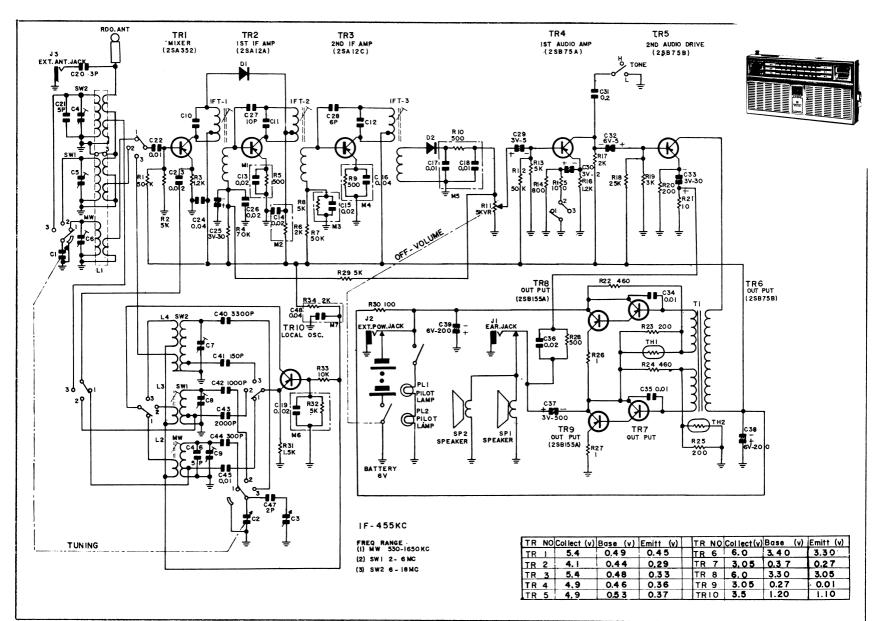
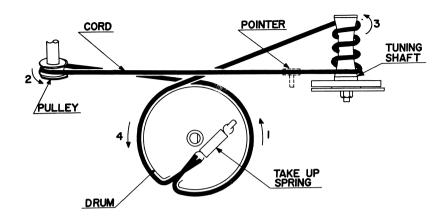
# BOTTOM VIEW OF PRINTED CIRCUIT BOARD

SHARP BY-410





## DIAL CORD STRINGING



## **ALIGNMENT INSTRUCTION**

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 at its maximum.
- Use the lowest setting of signal generator capable of producing adequate indication on the lowest scale of output meter.
- 4) Use a non-metallic alignment tool.
- 5) Repeat adjustments to insure good results.

### **ALIGNMENT CHART**

	AM A	Alignment Signal	generator	Receiver		
Step	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks	Adjust
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)	output on speaker	3rd-IF Trans. core 2nd-IF Trans. core 1st-IF Trans. core
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 520KC. (400%, 30%, AM modulated.)	Tuning gang fully closed. (maximum capacity)	-	MW Oscillator core (L <sub>2</sub> )

	AM A	lignment Signal	generator	Rece	iver	Adjust			
itep	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks				
3	M.W.	Same as step 2.	Exactly 1680KC. (400%, 30%, AM modulated.)	Tuning gang fully open. (minimum capacity)	Same as step 1.	MW Oscillator trimmer (C <sub>9</sub> )			
4	M.W.	Same as step 2.	Exactly 600KC. (400%, 30%, AM modulated.)	600 KC	See NOTE.	MW Antenna coil			
5	M.W.	Seme as step 2.	Exactly 1400KC. (400%, 30%, AM modulated.)	1400 KC	See NOTE.	MW Antenna trimmer (C <sub>6</sub> )			
6	M.W.	Repeat steps 2, 3, 4 and 5	until no further improves	nent is obtained.					
7	S.W1.	Same as step 2.	Exactly 1.9MC (400%, 30%, AM modulated.)	Tuning gang fully closed. (maximum capacity)	Same as step 1.	SW1 Oscillator cor (L <sub>3</sub> )			
8	S.W1.	Same as step 2.	Exactly 6.2MC (400%, 30%, AM modulated.)	Tuning gang fully open. (minimum capacity)	Same as step 1.	SW1 Oscillator trimmer (C <sub>8</sub> )			
9	S.W1.	Same as step 2.	Exactly 2.3MC (400%, 30%, AM modulated.)	2.3MC	See NOTE.	SW1 Antenna coil			
10	S.W1.	Same as step 2.	Exactly 5MC (400%, 30%, AM modulated.)	5MC	See NOTE.	SW1 Antenna trimmer (C <sub>5</sub> )			
11	S.W1.	Repeat steps 7, 8, 9 and 10 until no further improvement is obtained.							
12	S.W2.	Connect signal generator through a 10KΩ dummy to the external antenna coil lug. Ground lead to the receiver chassis.	Exactly 5.85KC (400%, 30%, AM modulated.)	Tuning gang fully closed. (maximum capacity)	Same as step 1.	SW2 Oscillator co			
13	S.W2.	Same as step 12.	Exactly 18.5MC (400%, 30%, AM modulated.)	Tuning gang fully open. (minimum capacity)		SW2 Oscillator trimmer (C <sub>7</sub> )			
14	S.W2.	Same as step 12.	Exactly 6.5MC (400%, 30%, AM modulated.)	6.5MC	See NOTE.	SW2 Antenna co			
15	S.W2	. Same as step 12.	Exactly 16MC (400% 30%, AM modulated.)	, 16MC	See NOTE.	SW2 Antenna trimmer (C <sub>4</sub> )			
16	S.W2	Parant stars 12 12 14 a	and 15 until no further imp	provement is obtained	L				

### NOTE

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 requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.