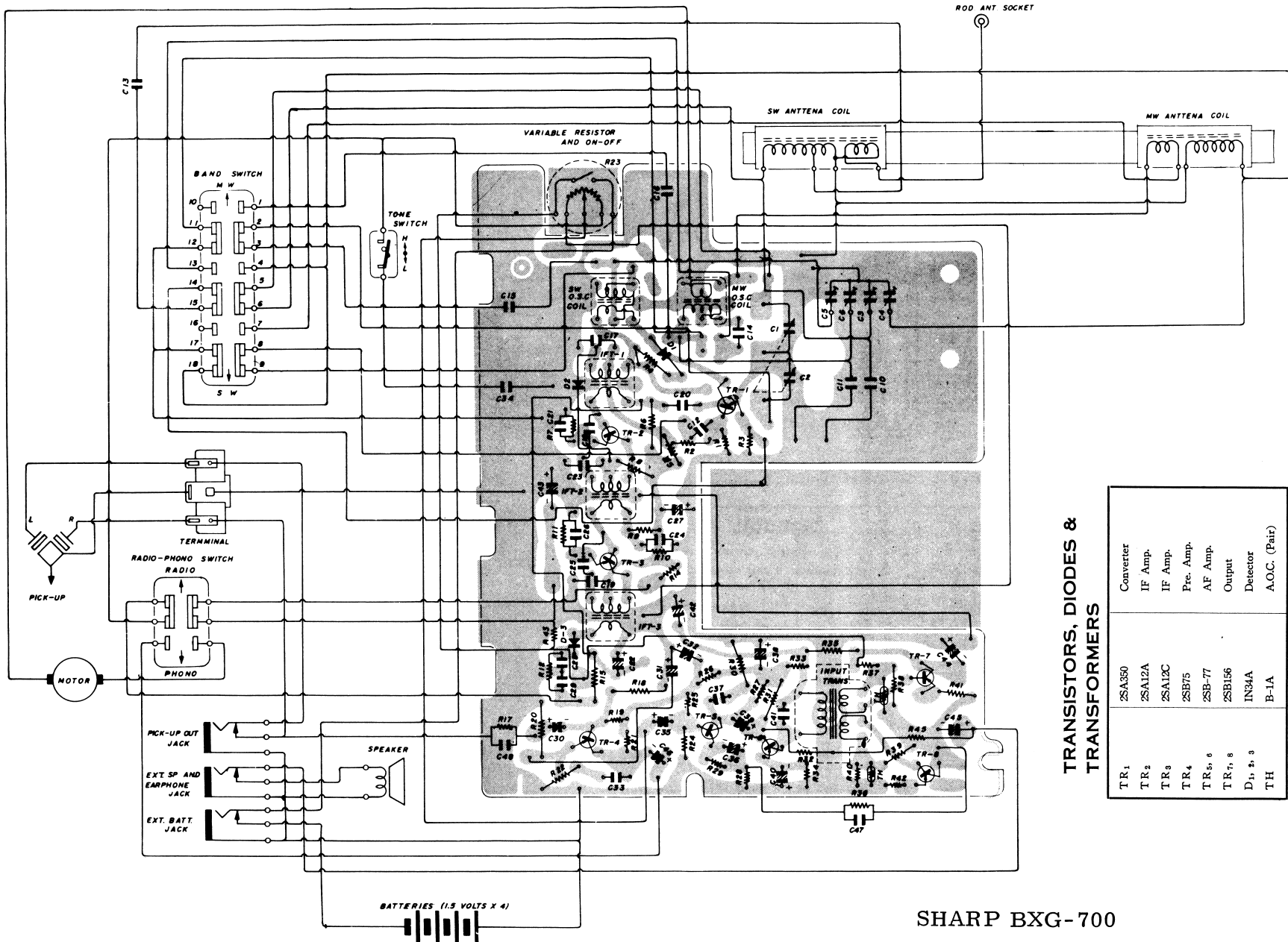


BOTTOM VIEW OF PRINTED CIRCUIT BOARD

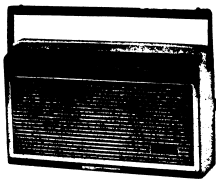
S176



TRANSISTORS, DIODES & TRANSFORMERS

TR ₁	2SA350	Converter
TR ₂	2SA12A	IF Amp.
TR ₃	2SA12C	IF Amp.
TR ₄	2SB75	Pre. Amp.
TR _{5, 6}	2SB-77	AF Amp.
TR _{7, 8}	2SB156	Output
D _{1, 2, 3}	IN34A	Detector
TH	B-1A	A.O.C. (Pair)

SHARP BXG-700



TR.1

TR.2

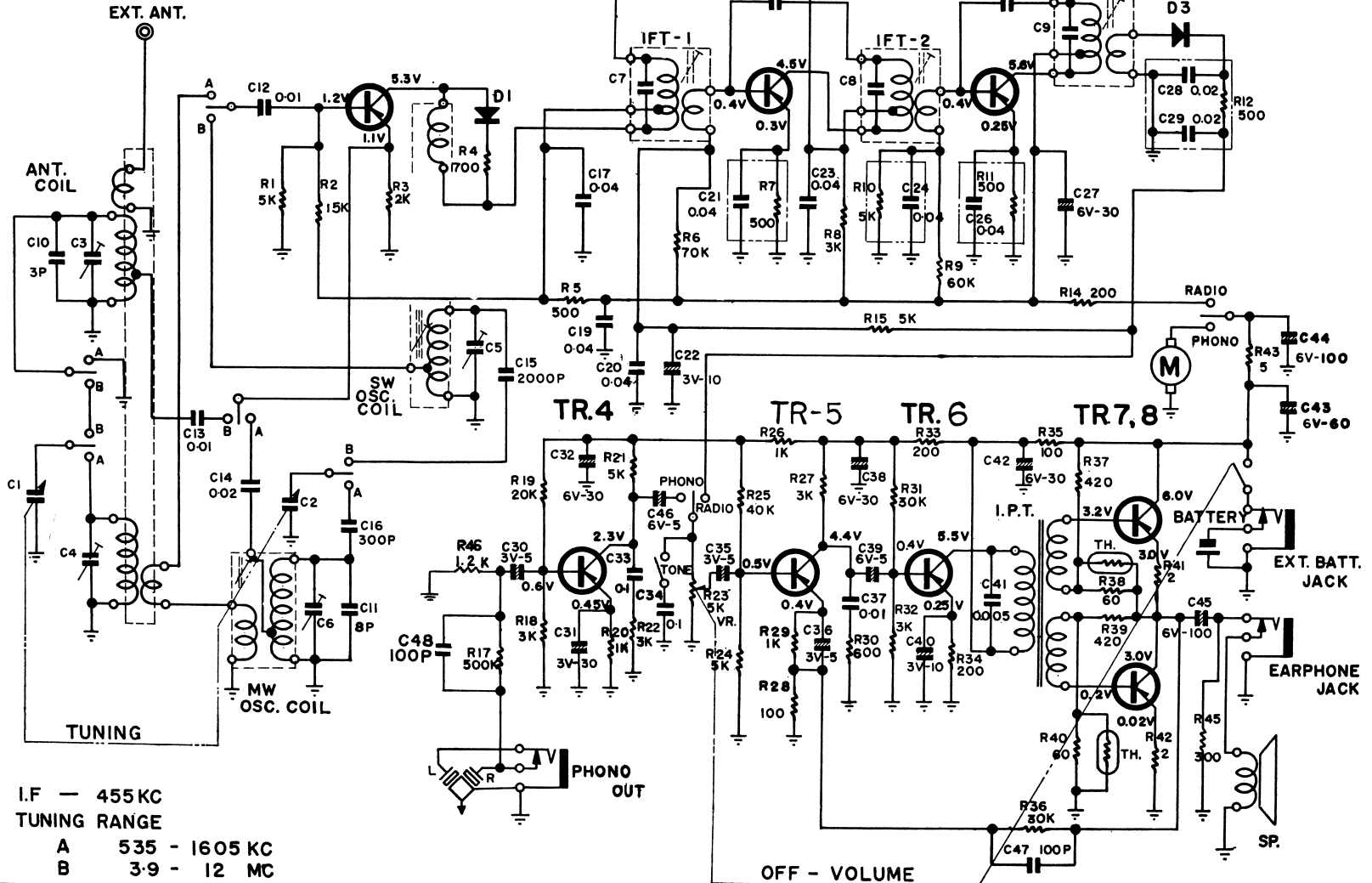
TR.3

TR.4

TR.5

TR.6

TR.7,8



I.F — 455 KC
 TUNING RANGE
 A 535 - 1605 KC
 B 3.9 - 12 MC

OFF - VOLUME

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.

Step	Band	Connection to receiver	Signal generator		Receiver		Adjust
			Input signal frequency	Dial setting	Remarks		
7	S.W.	Same as step 2	Exactly (3.8MC) (400c/s, 30% AM modulated)	Tuning gang fully closed (maximum capacity)	Same as step 1	SW Oscillator core	
8	S.W.	Same as step 2	Exactly (12.2MC) (400c/s, 30% AM modulated)	Tuning gang fully open (minimum capacity)	Same as step 1	SW Oscillator trimmer (C ₅)	
9	S.W.	Same as step 2	Exactly (4.5MC) (400c/s, 30% AM modulated)	(4.5MC)	Same as step 4	SW Antenna coil	
10	S.W.	Same as step 2	Exactly (10MC) (400c/s, 30% AM modulated)	(10MC)	Same as step 4	SW Antenna trimmer (C ₄)	
11	S.W.	Repeat steps 7, 8, 9 and 10 until no further improvement is obtained.					

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.

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. (400c/s, 30% AM modulated.)	Tuning gang fully open. (minimum capacity)	Adjust for maximum output on speaker voice coil lugs.	3rd-IF Trans. core (IFT-3) 2nd-IF Trans. core (IFT-2) 1st-IF Trans. core (IFT-1)	
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. (400c/s, 30% AM modulated.)	Tuning gang fully closed. (maximum capacity)	Same as step 1.	MW Oscillator core	
3	M.W.	Same as step 2.	Exactly 1650KC. (400c/s, 30% AM modulated.)	Tuning gang fully open. (minimum capacity)	Same as step 1.	MW Oscillator trimmer (C ₄)	
4	M.W.	Same as step 2.	Exactly 600KC. (400c/s, 30% AM modulated.)	600 KC	See NOTE	MW Antenna coil	
5	M.W.	Same as step 2.	Exactly 1400KC. (400c/s, 30% AM modulated.)	1400 KC	Same as step 4	MW Antenna trimmer (C ₅)	
6	M.W.	Repeat steps 2, 3, 4 and 5 until no further improvement is obtained.					

DIAL CORD STRINGING

