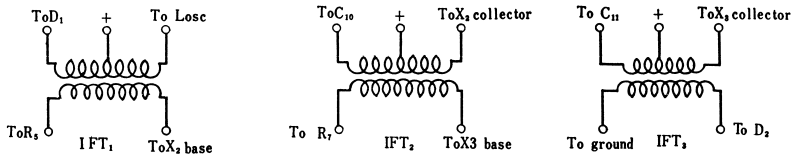
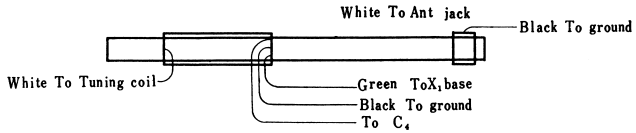
IFT (bottom view)



Antenna coil



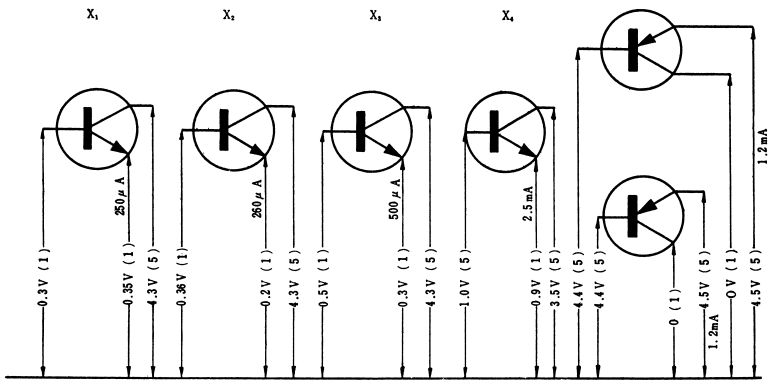
(d) Interstage transformer

Impedance:	Primary	1.5 kΩ	Secondary	2 kΩ
DC resistance:	Primary	145 Ω ±20%	Secondary	240 Ω ±20%

(e) Output transformer

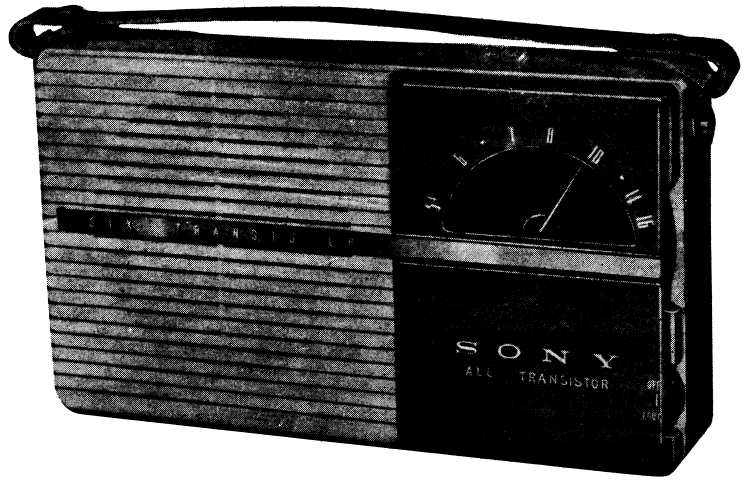
Impedance:	Primary	200 Ω	Secondary	8 Ω
DC resistance:	Primary	16 Ω	Secondary	0.6 Ω ±20%

TR-608 Voltage and current distribution



SONY SERVICING GUIDE

TR-608



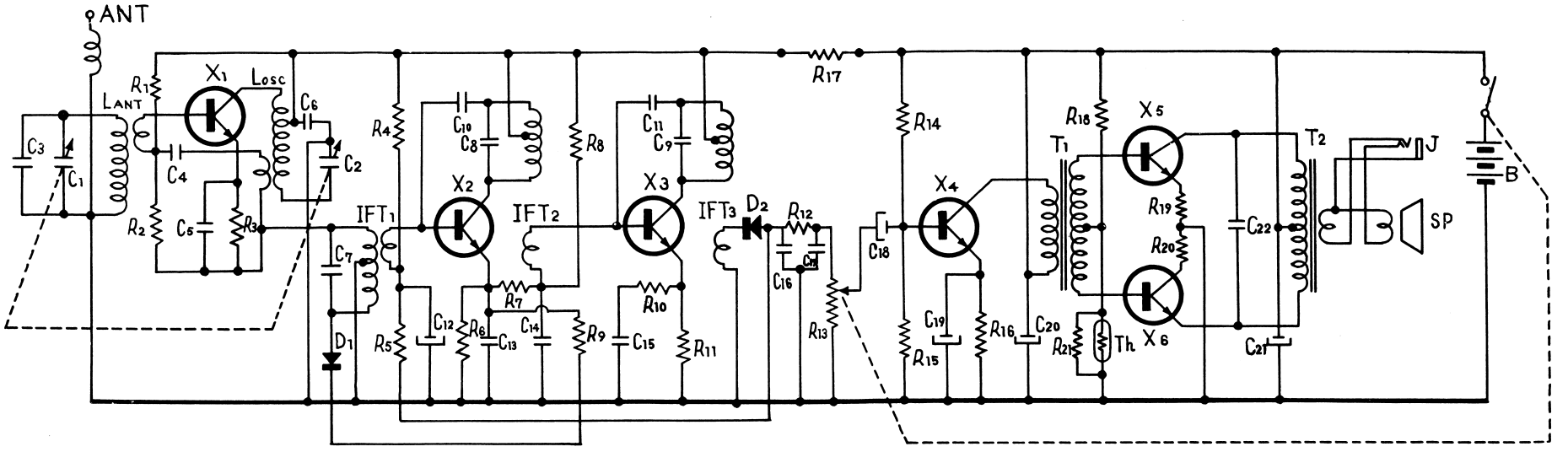
Specifications for TR-608

Circuit	:	6 transistor superheterodyne
Covering frequency	:	535~1605 kc
IF frequency	:	455 kc
Sensitivity	:	200 μV/m with built-in ferrite bar antenna 40 μV/m with external aerial
Selectivity	:	15 db at 10 kc off resonance
Antenna system	:	Built-in ferrite bar antenna with external aerial jack
Output power	:	120 mW (undistorted)—0.98 Volt across 8 Ω load
Speaker	:	3½″ PM dynamic 8Ω
Battery	:	3 size "C" flashlight batteries (4.5 Volts)
Current drain	:	7.5 mA ±20% at zero signal
Dimensions	:	7¾″ × 4⅜″ × 1¾″
Weight	:	1⅞ Lb.

Model TR-608 includes 2 types. One type employs NPN transistors while the other PNP transistors in output stage.

SONY

CIRCUIT DIAGRAM FOR TR—608

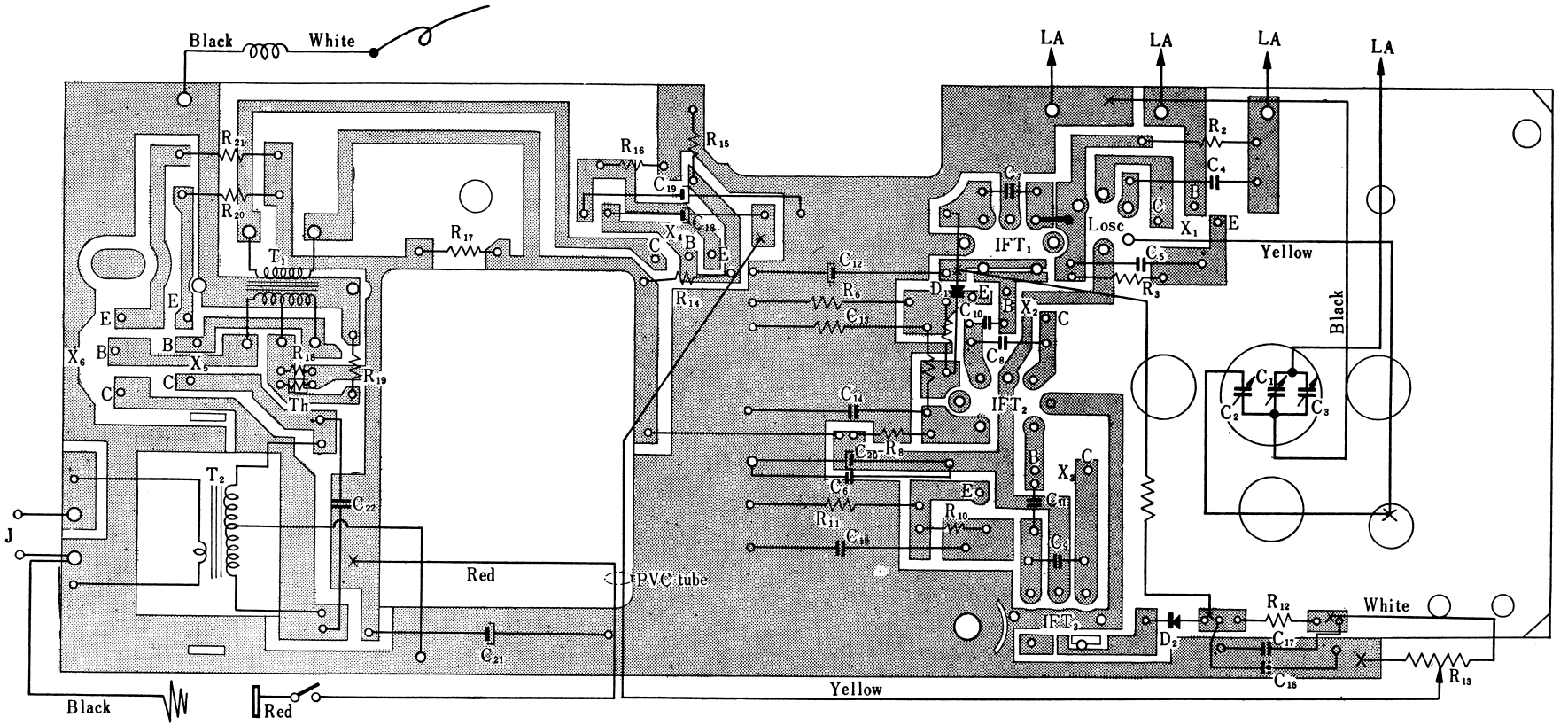


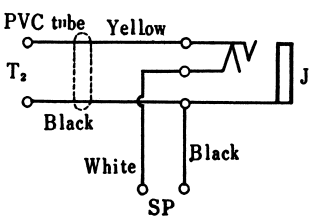
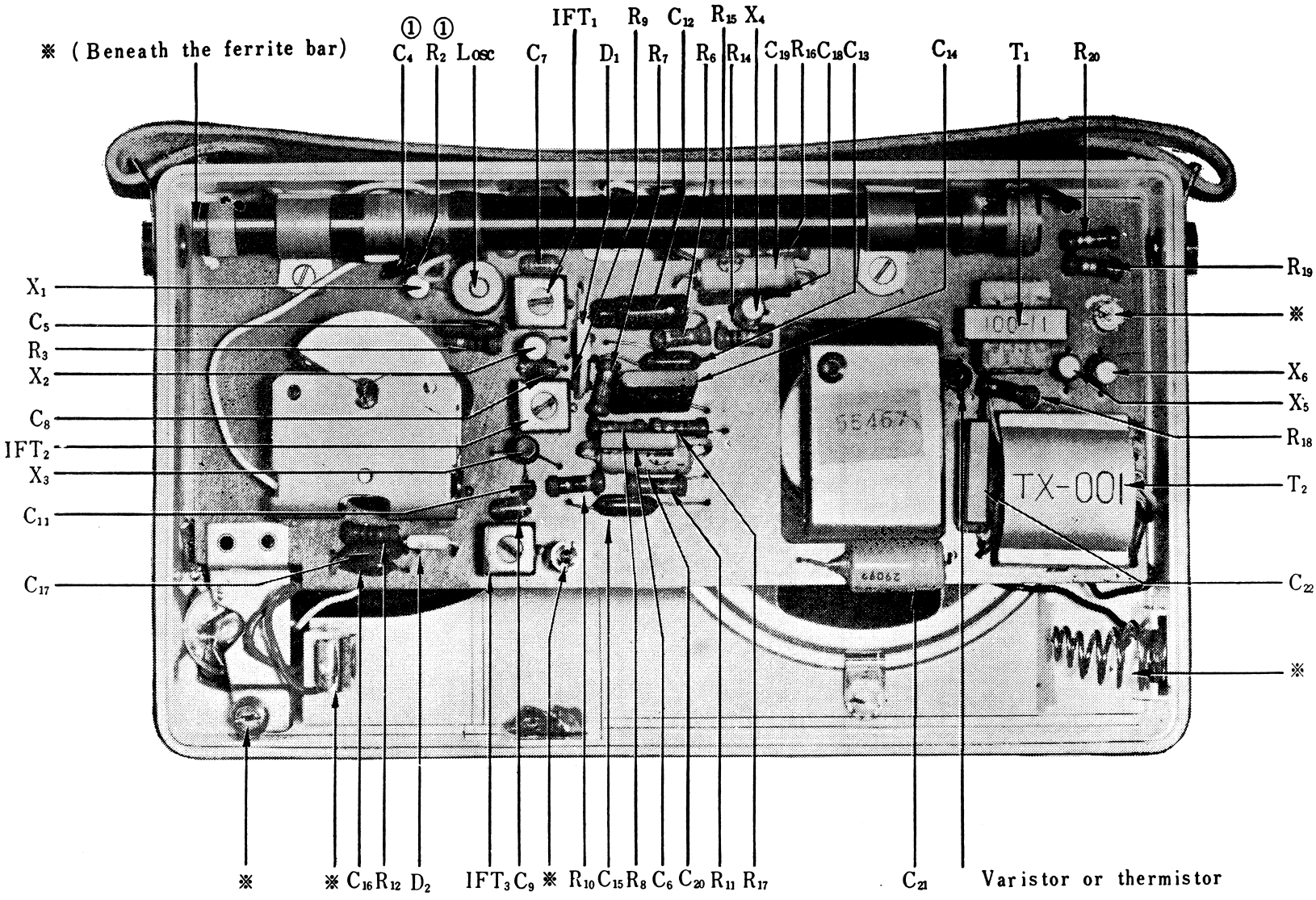
C_1	Tuning Capacitor	C_{12}	30μF 6V	R_1	※100KΩ ±20% ¼W	R_{12}	1KΩ ±5% ¼W	X_1	Transitor 2T73	L_{ANT}	Antenna Coil
C_2		C_{13}	0.01μF	R_2	15KΩ ±5% 〃	R_{13}	5KΩ VR with Switch	X_2	〃 2T76	L_{OSC}	Oscillator Coil
C_3	3PF	C_{14}	0.05μF	R_3	1KΩ 〃 〃	R_{14}	10KΩ ±5% ¼W	X_3	〃 2T76	IFT_1	I. F. Trans.
C_4	0.01μF	C_{15}	0.01μF	R_4	※56KΩ ±20% 〃	R_{15}	3.3KΩ 〃 〃	X_4	〃 2T6	IFT_2	〃
C_5	0.005μF	C_{16}	0.01μF	R_5	5.6KΩ ±10% 〃	R_{16}	330Ω 〃 〃	X_5	〃 2T85	IFT_3	〃
C_6	0.05μF	C_{17}	0.01μF	R_6	470Ω ±5% 〃	R_{17}	60Ω 〃 〃	X_6	〃 2T85	T_1	Input Trans.
C_7	200PF	C_{18}	30μF 6V	R_7	3.3KΩ 〃 〃	R_{18}	3.3KΩ 〃 〃	D_1	Diode 1T23	T_2	Output Trans.
C_8	200PF	C_{19}	30μF 6V	R_8	33KΩ 〃 〃	R_{19}	5Ω 〃 〃	D_2	〃 1T23	J	Earphone Jack
C_9	200PF	C_{20}	30μF 6V	R_9	1.5KΩ 〃 〃	R_{20}	5Ω 〃 〃	Th	Thernistor S-250	SP	3½"P. D. Speaker 8Ω
C_{10}	1PF	C_{21}	100μF 6V	R_{10}	※220Ω 〃 〃	R_{21}	※220Ω 〃 〃			B	UM-2×3
C_{11}	2PF	C_{22}	0.1μF	R_{11}	470Ω 〃 〃						

Note: ※ Adjusting Resistors

SONY CORPORATION

TR-608 Circuit board (Printed side) (PNP)





TR-608 Mounted circuit board (NPN)