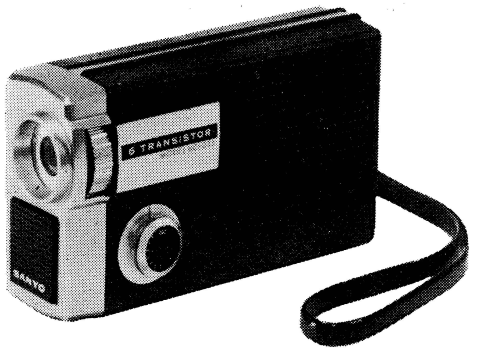
SANYO

6-transistor Portable Radio

MODEL 6C-055

SERVICE MANUAL

SANYO ELECTRIC CO., LTD.
INTERNATIONAL DIVISION : SANYO ELECTRIC TRADING CO., LTD.
OSAKA, JAPAN



SPECIFICATIONS

Frequency ange ..... 530-1605 Kc
Intermediate Frequency ..... 455 Kc
Transistors 2SA203 ..... Frequency converter
2SA202 ..... 1st IF. amplifier
2SA202 or
2SA203 ..... 2nd IF. amplifier
2SB185 ..... AF. amplifier
2SB187 ×2 ..... Power amplifier
Diode 1S188 ..... Detector & AGC
Radiation Sensitivity 10mW output ..... 200 uV/m

Output Power Undistorted ..... 150 mW
Maximum ..... 200 mW
Loudspeaker ..... 5cm permanent dynamic speaker
Voice coil impedance 60 ohms
Current Drain No. signal 8mA
Maximum 35mA
Power Source 9V (006P)
Dimension ..... 4 21/64″ Width × 2 9/16″ Height × 1 9/32″ Depth
Weight ..... 7/16 oz

ALIGNMENT PROCEDURES

IF & RF alignment

Apply volt-meter across voice coil.

Volume control should be at amximum position.

Output of signal generator should be no higher than necessary to obtain proper output reading in order to avoid AGC function.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST FOR MAXIMUM OUTPUT
✳ *IF ALIGNMENT*				
1	Radiate signal through the loop antenna, which connected with signal generator output cable.	455 Kc	Lower end	T-1 T-2 T-3
✳ *BROADCAST RF ALIGNMENT*				
2	Radiate signal through the loop antenna, which connected with signal generator output cable.	530 Kc	Lower end	L-2
3		1,605 Kc	Upper end	BC osc, trim. Ct-2
4		Repeat steps 2 and 3		
5		600 Kc	600 Kc	L-1
6		1,400 Kc	1,400 Kc	BC ant. trim. Ct-1
7		Repeat steps 5 and 6		

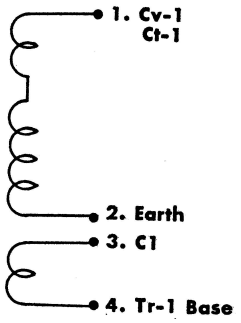
PARTS NO.	DISCRIPTION				SYMBOL NO.	Q'TY
TRANSISTORS & DIODE						
2SA203	Transistor	A class			Tr-1	1
2SA202	〃	AA class			Tr-2	1
2SA203	〃	AA class			Tr-3	1
2SB185	〃	AA class			Tr-4	1
2SB187	〃	A class			Tr-5, 6	2
1S188	Diode				D-1	1
COILS & TRANSFORMERS						
R-W2612	Antenna coil				L-1	2
R-W8515	Oscillator coil				L-2	2
R-W5T531	I F transformer				T-1	2
R-W5T532	〃				T-2	2
R-W5T533	〃				T-3	1
R-W6591	〃				T-4	1
ELECTROLYTIC CAPACITORS						
R-C9525	50μF/9V	R-C9525 or R-C9081b			C12, 13	2
R-C9081b	〃				C12, 13	2
R-C9526	30μF/3V	R-C9526 or R-C9080			C3, 10	2
R-C9080	〃				C3, 10	2
R-C9078	5μF/6V	R-C9078 or R-C9527			C9	1
R-C9527	〃				C9	1
CAPACITORS						
C11, 15	Mylar	0.0068	μF	±20%	35V	2
C2	〃	0.01	μF	〃	〃	1
C1	〃	0.0047	μF	〃	〃	1
C4	Ceramic	0.02	μF	+80 −20%	25V	1
C6	〃	0.04	μF	〃	〃	1
C5, 7	〃	10	pF	±10%	〃	2
C16	〃	3	pF	〃	〃	1
C8	〃	0.01	μF	+80 −20%	〃	1
C14	Styrol	150	pF	± 5%	〃	1
RESISTORS						
R1	Solid or	5.6	kohm	±10%	¼W	1
R2	Carbon	39	kohm	〃	〃	1
R3	〃	2.7	kohm	〃	〃	1
R4	〃	82	kohm	〃	〃	1
R5	〃	1.2	kohm	〃	〃	1
R6	〃	680	ohm	〃	〃	1
R7	〃	4.7	kohm	〃	〃	1
R8	〃	820	ohm	〃	〃	1
R9	〃	6.8	kohm	〃	〃	1
R10	〃	27	kohm	〃	〃	1
R11	〃	390	ohm	〃	〃	1
R12	〃	180	ohm	〃	〃	1
R13, 15	〃	150	ohm	〃	〃	2
R14, 16	〃	3.9	kohm	〃	〃	2
R17, 18	〃	3.3	kohm	〃	〃	2
MISCELLANEOUS						
R-C1088	Variable capacitor					1
R-R110506	Variable resistor					1
R-S6618	Speaker					1
R-S6560	Earphone complete					1
R-S2509	Earphone socket					1
R-S1027a	Battery snap lead					1
R-23439	Lug board					1

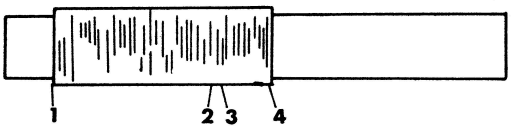
PARTS NO.	DESCRIPTION	Q'TY
CABINET		
R-315193	Cabinet	1
R-24654	Insert nut	2
〃		1
R-315194	Back cover	1
R-395178	Front cabinet	1
R-325258	Battery compartment cover	1
R-325259	Dial cover	1
R-325260	Front decoration panel	1
R-265631	Decoration metal (around the cabinet)	1
R-265632	〃 (6 TRANSISTOR)	1
R-265633	〃 (VR knob base)	1
R-265634	Dial	1
R-265635	Specification	1
R-S85162	Hand strap complete	1
R-435074	Net (Back cover)	1
R-475504	Battery sheet	1
R-475508	Caution sheet	1
R-435009	Speaker net	1
R-325261	Fixing part for P. C. board	1
R-25068	Speaker clip metal	1
R-355154	VR. knob sheet	1
R-395179a	VR knob	1
R-265696	Decoration metal for VR. knob	1
CHASSIS		
R-415254a	Printed circuit board	1
R-325262	Fixing part for VC.	1
R-395180	Tuning knob	1
R-245192a	Fixing shaft for VR. knob	1

Printed in Japan

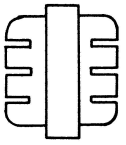
MAIN PARTS CONNECTION

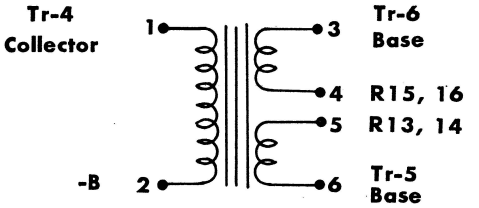
1. Antenna coil (L-1)



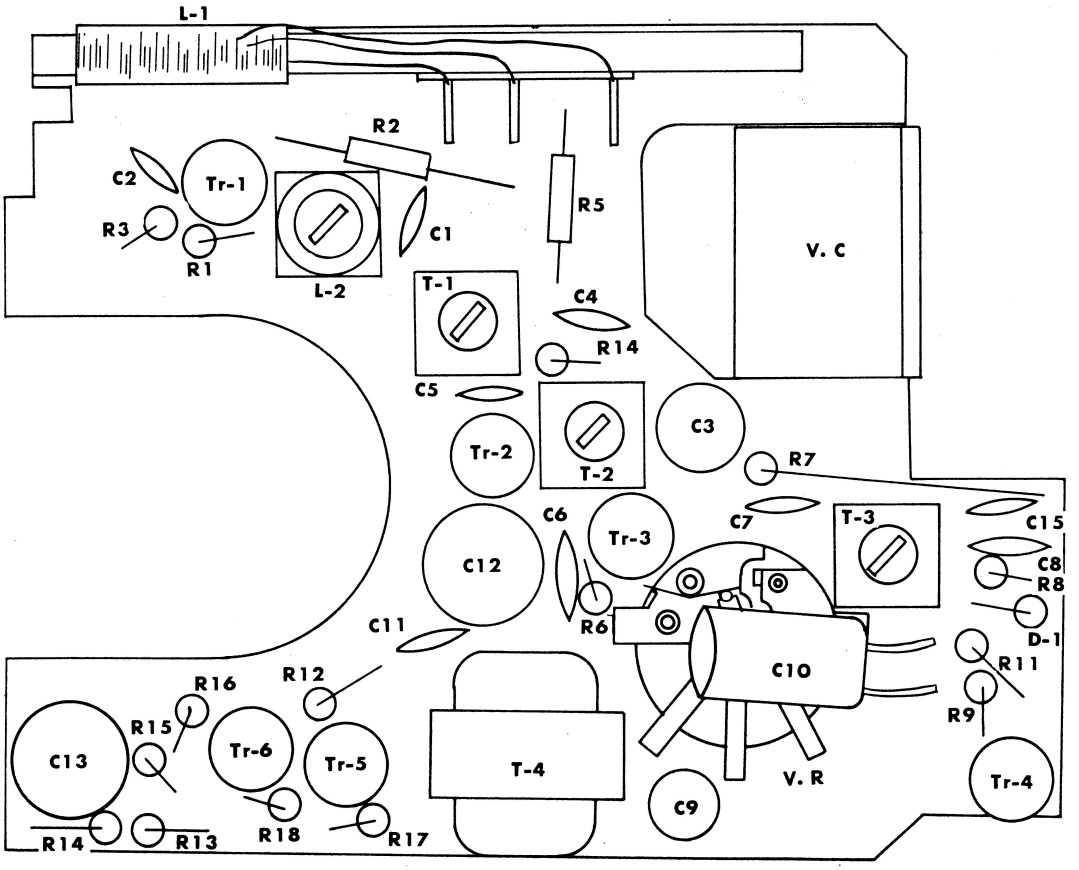


2. Input trans. (T-4)

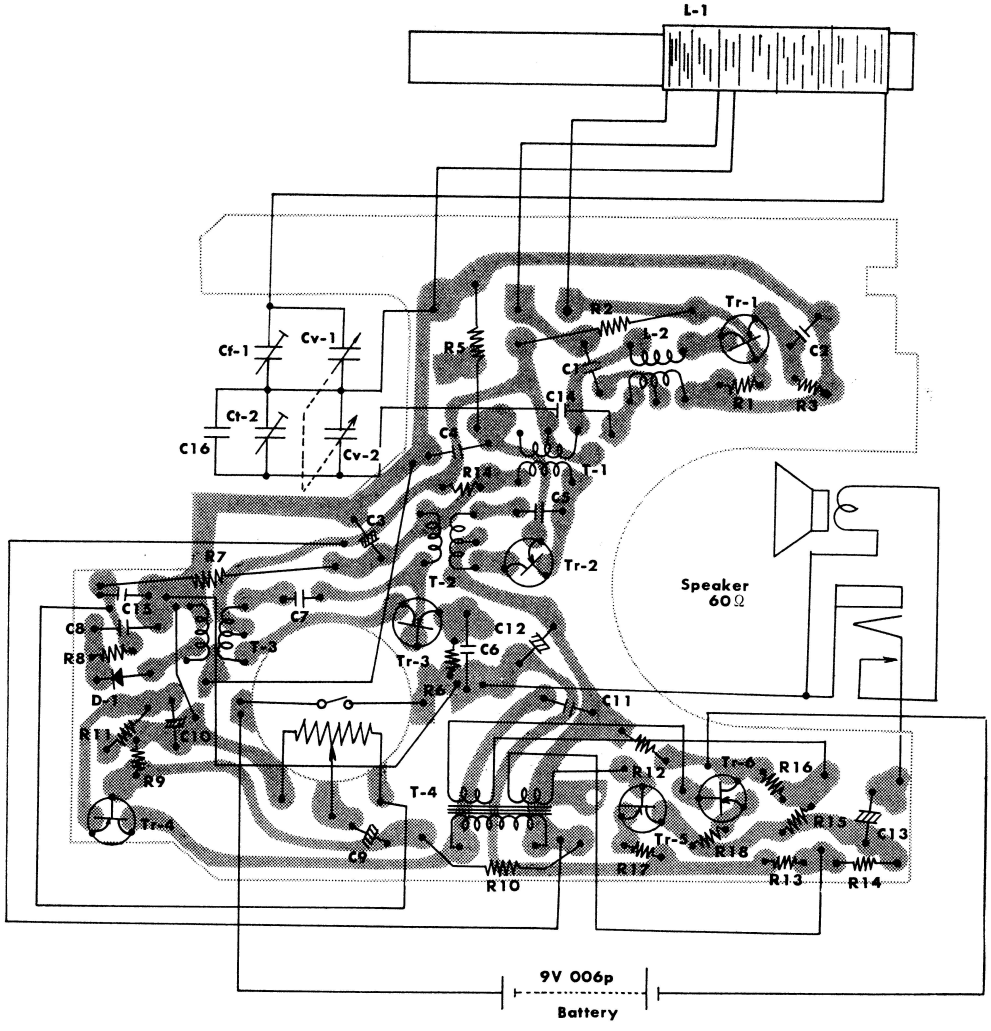
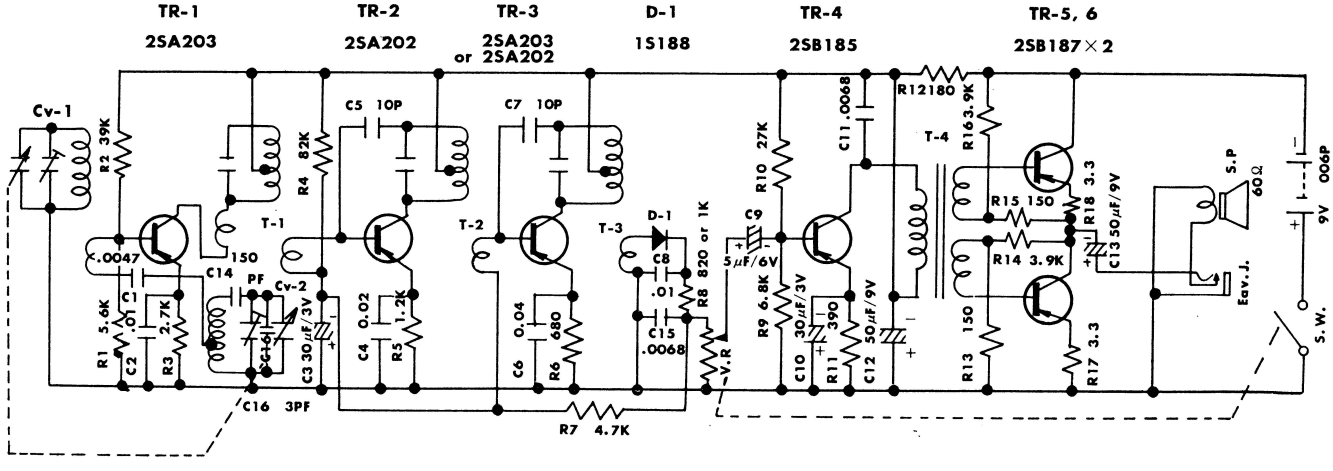




PARTS LOCATION



INTER-PARTS WIRING ILLUSTRATION



CIRCUIT DIAGRUM