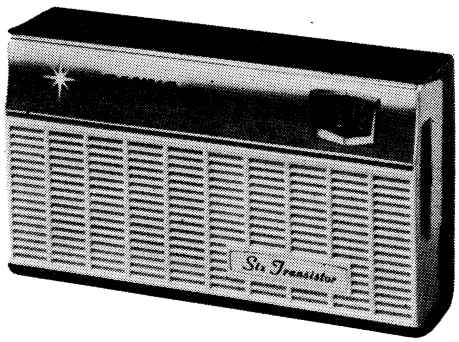
SANYO

6-transistor Pocketable Radio

MODEL 6C-19B

SERVICE MANUAL

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



SPECIFICATIONS

FREQUENCY RANGE ..... 530–1605 kc
INTERMEDIATE FREQUENCY ..... 455 Kc
TRANSISTORS 2SA203 ×1 ..... Frequency converter
2SA202 ×2 ..... I.F amplifier
2SA185 ×1 ..... AF. driver
2SB187 ×2 ..... Power amplifier
DIODE 1S188 ×1 ..... Detector & AGC.
SENSITIVITY 10mW output ..... 110 μV/m

OUTPUT POWER Undistorted ..... 140 mW
Maximum ..... 200 mW
LOUDSPEAKER ..... 2½″ permanent dynamic speaker
Voice coil impedance 7 ohm
CURRENT DRAIN No. signal ..... 12 mA
Maximum ..... 80 mA
POWER SOURCE ..... 4.5V Penlight battery (1.5V) ×3
DIMENSIONS ..... 5⅜″ width × 3″ Hight × 1 17/32″ Depth
WEIGHT ..... 11/16 oz

ALIGNMENT PROCEDURES

IF & RF alignment

Apply volt-meter across voice coil.

Volume control should be at maximum position.

Ontput 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
1	Radiate signal through the loop antenna, which connected with signal generator output cable.	455 Kc	Lower end	T-1 T-2 T-3
2	Radiate signal through the loop antenna, which connected with signal generator output cable.	530 Kc	Lower end	L-2
3		1605 Kc	Upper end	BC osc. trim. Ct-2
4		Repeat steps 2 and 3		
5		600 Kc	600 Kc	L-1
6		1400 Kc	1400 Kc	BC ant. trim. Ct-1
7		Repeat steps 5 and 6		

PARTS LIST

SYMBOL NO.	PARTS NO.	DESCRIPTION	Q'TY
TRANSISTORS & DIODE			
Tr-1	2SA203	Transistor AA class	1
Tr-2, 3	2SA202	〃 〃	2
Tr-4	2SB185	〃 〃	1
Tr-5, 6	2SB187	〃 〃	2
D-1	1S188	Diode	1
COILS & TRANSFORMERS			
L-1	R-W2625	Antenna coil	1
L-2	R-W8545	Oscillator coil	1
T-1	R-W5T008	Inter frequency transformer	1
T-2	R-W5T009	〃	1
T-3	R-W5T043	〃	1
T-4	R-W6152	Input transformer	1
T-5	R-W6163	Output transformer	1
ELECTROLYTIC CAPACTORS			
C12	R-C9086	120μF/6V	1
C14	R-C9081b	50μF/9V	1
C4, 10	R-C9080	30μF/3V	2
C9	R-C9078	5μF/6V	1

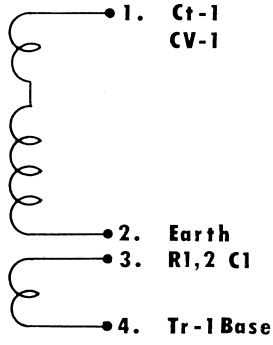
SYMBOL NO.	DESCRIPTION	Q'TY
CAPACITORS		
C1	Mylar 0.0015 μF ±20% 50wv	1
C2	〃 0.01 μF 〃 〃	1
C8, 11	〃 0.02 μF 〃 〃	2
C3	Ceramic 16 pF ±10% 25wv	1
C5, 6, 13	〃 0.04 μF +80 −20% 〃	3
C7	〃 13 pF ±10% 〃 Tr−2 Cc=6 only	1
C7	〃 16 pF 〃 Tr-2 Cc=7 only	1
RESISTORS		
R4	Solid or Carbon 68 kohm ±10% ¼W	1
R8	〃 33 kohm 〃 〃	1
R1	〃 8.2 kohm 〃 〃	1
R2, 9	〃 6.8 kohm 〃 〃	2
R3	〃 4.7 kohm 〃 〃	1
R12	〃 2.2 kohm 〃 〃	1
R6	〃 560 ohm 〃 〃	1
R7	〃 270 ohm 〃 〃	1
R10	〃 220 ohm 〃 〃	1
R13	〃 100 ohm 〃 〃	1
R11	〃 68 ohm 〃 〃	1
R14	〃 2.2 ohm 〃 〃	1
R5	〃 1.8 kohm ±5% 〃	1

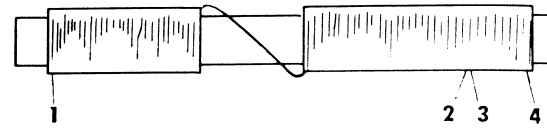
PARTS NO.	DESCRIPTION	Q'TY
MISCELLANEOUS		
R-S6560	Earphone complete	1
R-S6169	Speaker or R-S6634	1
R-C1031	Variable capacitor or R-C1503	1
R-R116524	Variable resistor or R-R116216 or R-R116513	1
R-CXC002	Fixed resistor & capacitor C15, 16 R15	1
R-25137aL	Battery terminal	1
R-23550b	〃	1
R-23551b	—Battery terminal	2
R-25138a	—Coil spring	2
	—Eylet	2
R-S83776	—Battery terminal complete	2
R-S2107	Earphone socket	1
CABINET		
R-31433c	Cabinet front	1
R-32243	Dial cover	1
R-26485	Front decoration metal	1
R-26591	Badge	1
R-	Speaker net	1
R-475515	Specification sheet	1
R-25097	Speaker clip metal	2
R-24142a	Screw for cabinet back	1
R-13061	"C" washer	1
	Battery cushion	3
	Felt	1
R-315138	Cabinet back	1
CHASSIS		
R-41196g	Printed circuit board	1
R-325282	Tuning knob	1
R-32245	Volume knob	1
R-325179	Antenna coil holder	1
	Felt	1

7-20104 Printed in Japan

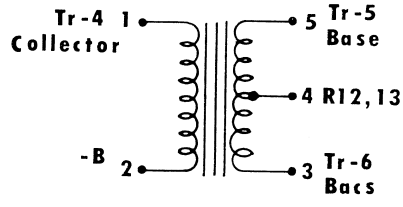
MAIN PARTS CONNECTION

Antenna coil (L-1)

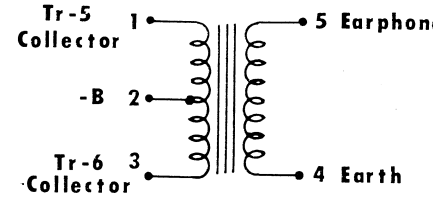




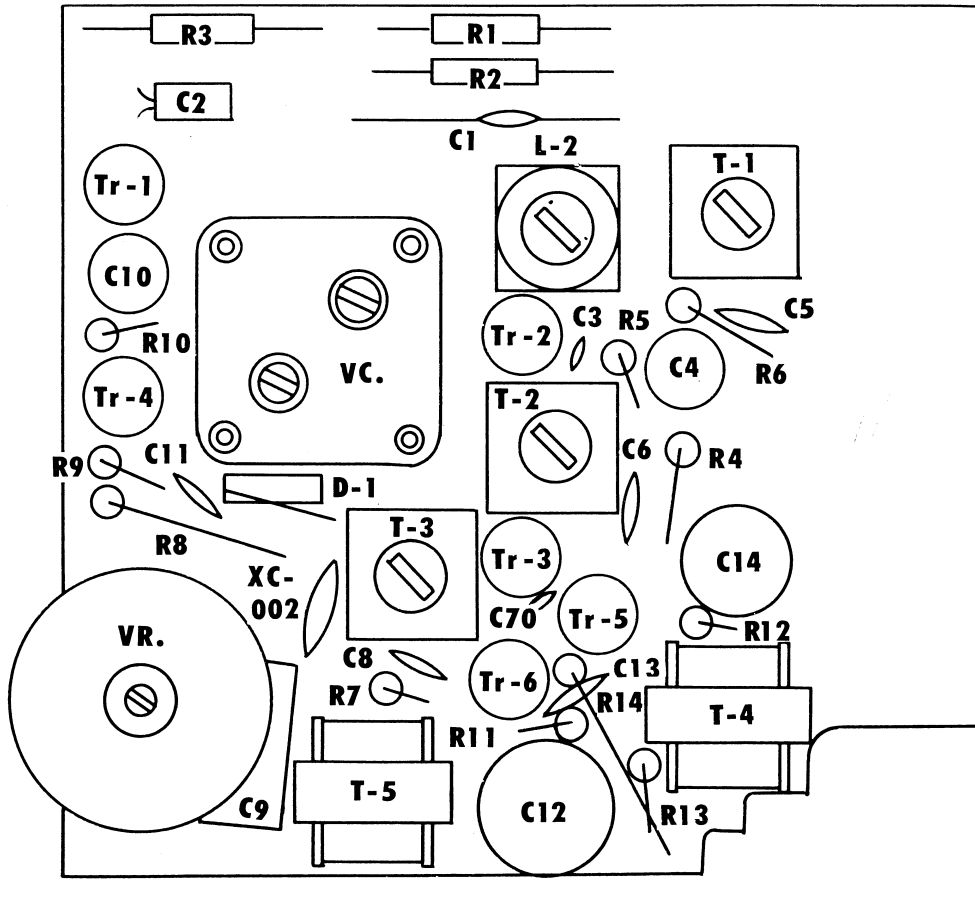
Input trans. (T-4)



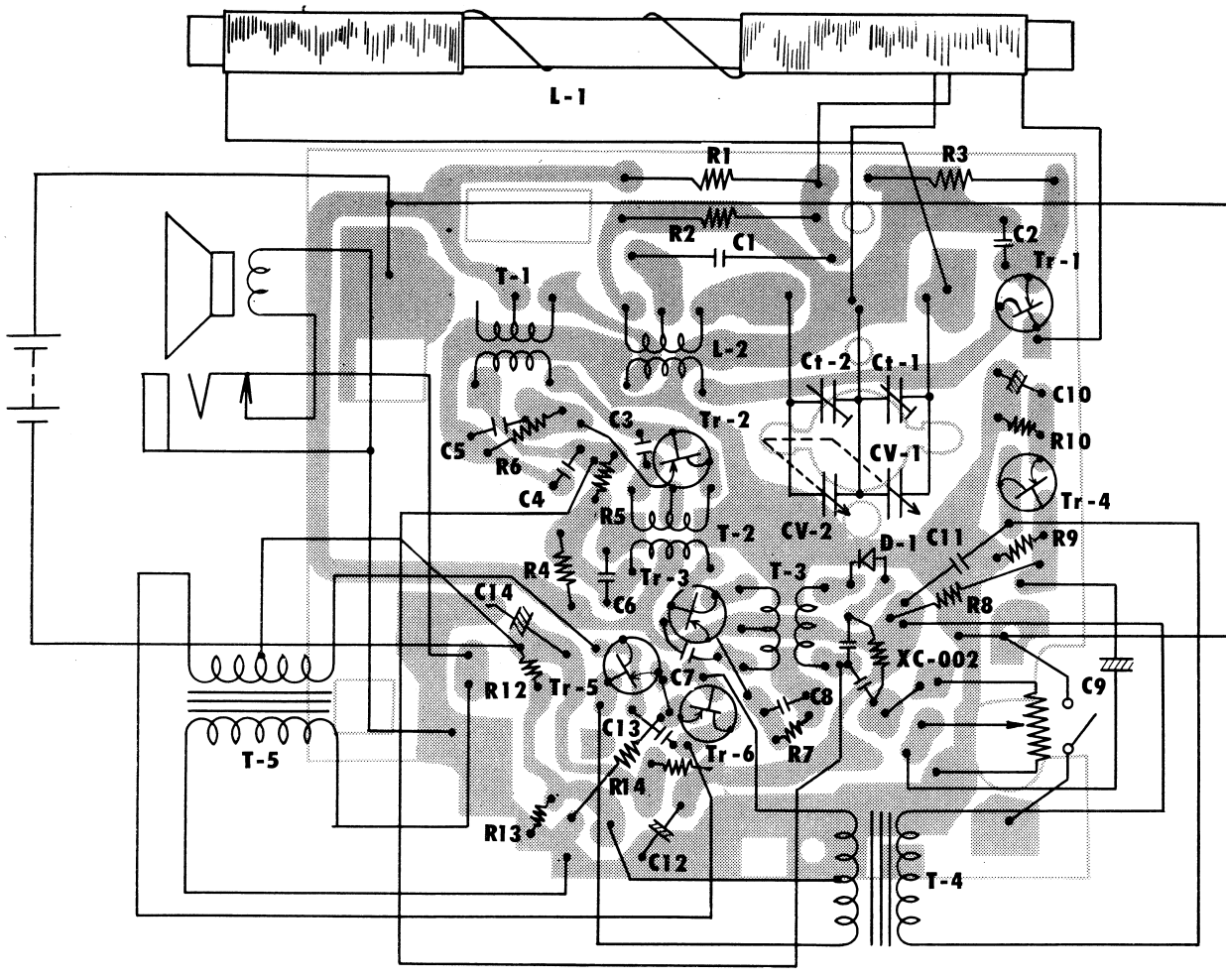
output trans, (T-5)



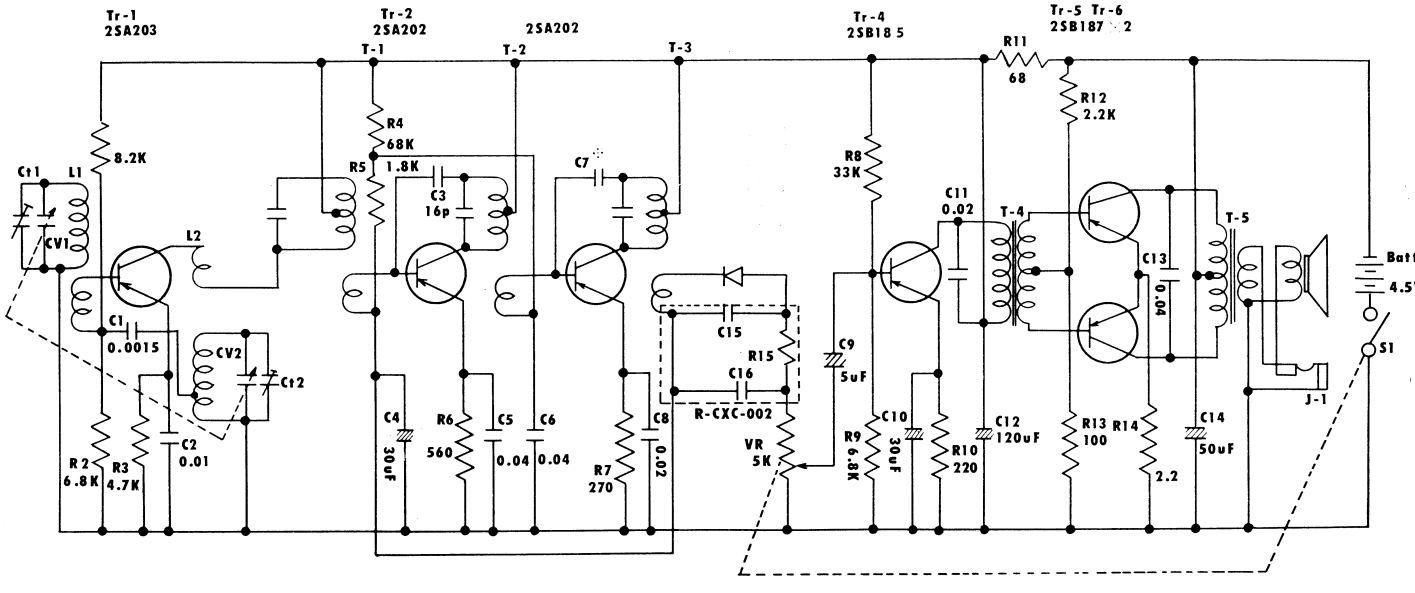
PARTS LOCATION



INTER-PARTS WIRING ILLUSTRATION



CIRCUIT DIAGRAM



NOTE All resistance values in "ohms"

Allowance ＊Mark; 5% no marks; 10%

All capacitance values in "F(farad)"

C7 { 2SA202 Co No. 6 13pF
2SA202 Co No. 7 16pF