SANYO

6-Transistor Portable Radio

MODEL 6C-337

SERVICE MANUAL

SANYO ELECTRIC CO., LTD.

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

SPECIFICATIONS

FREQUENCY RANGE ..... 530—1,605 KC
INTERMEDIATE FREQUENCY ..... 455 KC
TRANSISTOR COMPLEMENT ... 2SA323 Frequency converter
2SA203 x2 IF amplifier
2SB186 AF amplifier
2SB22 x2 Power amplifier
DIODE: 1N60 or 1S188 Detecteor & AGC
RADIATION SENSITIVITY ..... 10 mW output 460 μV/m (upper limit)
DISTORTION ..... 50 mW output at 5 mV/m input 13% (upper limit)
SIGNAL TO NOISE RADIO ..... 5 mW output at 2mV/m input 21 dB (lower limit)

LOUDSPEAKER ..... 2″ permanent dynamic speaker
Voice coil impedance 8 ohms
OUTPUT POWER ..... Undistorted 70 mW
Maximum 120 mW
BATTERY ..... Operates on 2 penligth batteries
CURRENT DRAIN ..... No signal 12 mA
Maximum 70 mA
DIMENSIONS ..... $3^5/_8$″ wide × $2^1/_4$″ high × $1^3/_8$″ deep
WEIGHT ..... 0.38 lbs (Incl. battery)

ALIGNMENT PROCEDURES

IF & RF alignment

Apply volt-meter across voice coil.
Volume cotrol should be at maximum position.
Output of signal generator should be no higher than necessary to be obtain proper reading in order to avoid AGC function.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST FOR MAX. OUTPUT
IF Alignment				
1	Radiate signal through the loop antenna, which connected with signal generator output cable.	455 Kc	lower end	IFT 3 IFT 2 IFT 1
Broadcast RF Alignment				
2	Radiate signal through the loop antenna, which connected with signal generator output cable.	520 Kc	lower end	L-2.
3		1650 Kc	upper end	OSC. Trim. Ct2
4		Repeat steps 2 and 3		
5		600 Kc	600 Kc	L-1
6		1400 Kc	1400 Kc	ANT. Trim. Ct1
7		Repeat steps 5 and 6		

PARTS LIST

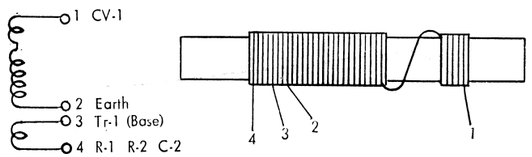
SYMBOL No.	STOCK No.	DISCRIPTION	Q'ty
Cabinet			
	R-395059	Cabinet	1
	R-315088	Back cover	1
	R-325069	Dial cover	1
	R-265220	Name plate	1
	R-265221	SP grille	1
	R-425657	SP grille sheet	1
	R-S85094a	Carring strap	1
	R-265251	Badge	1
	R-445039	Gum (Support a chassis)	2
	R-475282	Specification sheet	1
	R-	Battery cnshion	1
	R-25068	Speaker retaining clip	1
	R-	Ring (SP·····R-S6545a) only	1
	R-	Felt (Knob···R-325031) only	1
	R-245208	Stud nut	1
	R-365037	Protector (ANT coil)	1
	R-365038	Protector (Mylar & resistors)	1
Chassis			
	R-325093	Tuning knob	1
	R-325032	VR knob	1
	R-315089	Earphone socket crip	1
	R-235046	Bracket for PC. board	1
	R-485055	Earphone case	1
Electric Components			
L-2	R-W8535a	OSC coil	1
T-1 (A)	R-W5T531	IF trans	1
T-2 (A)	R-W5T532	〃	1
T-3 (A)	R-W5T533	〃	1
A or B			
T-1 (B)	R-W5516	〃	1
T-2 (B)	R-W5517	〃	1
T-3 (B)	R-W5518	〃	1
	R-R110503	Variable resistor	1
T-4	R-W6569	Input trans	1
	R-S6566	Speaker	1
	R-C-CX-003	Packed capacitors and reistor	1
CV-1 CV-2	R-C1503	Variable capacitors	1
〃		or R-C1031	1
〃		or R-C1509	1
	R-S6536	Earphone	1
		or R-S6326	1
C-11	R-C9547	Electrolytic (100μF/3V)	1
C-10 C-3			
C-8	R-C9548	〃 50μF/3V)	2
〃	R-C9527	〃 (5μF/6V)	1
		or R-C9532	1
L-1	R-W2551	Ant coil	1
	R-S85145a	Battery case	1
	R-S2523	Earphone socket	1
Tr-1	2SA323	Transistor	1
Tr-2 Tr-3	2SA203	〃 AA	2
Tr-4	2SB186	〃 A	1
Tr-5 Tr-6	2SB22	〃	2
	IN60 or ISI88	Diode	1

SYMBOL No.	DISCRIPTION				Q'ty
Capacitors & Resistors					
R-1	5.6 Kohms	±10%	1/4W	Carbon film	1
R-2	18 Kohms	〃	〃	or carbon	1
R-3	2.2 Kohms	〃	〃	composition	1
R-5	47 Kohms	〃	〃	fixed resistor	1
R-6	560 ohms	〃	〃		1
R-7	200 ohms	±20%	〃		1
R-8	10 Kohms	±10%	〃		1
R-9	68 Kohms	〃	〃		1
R-10	33 ohms	〃	〃		1
R-11 R-13	120 ohms	〃	〃		2
R-12 R-14	820 ohms	〃	〃		2
R-15	47 ohms	〃	〃		1
R-16	150 ohms	〃	1/8-1/4		1
R-4	560 Kohms	〃	〃		1
C-1 C-2	0.01 μF	±20%	50WV	Mylar	2
C-7	0.02 μF	〃	〃		1
C-9 C-12	0.0075 μF	〃	〃		2
C-4	0.04 μF	+80% −20%	〃	Ceramic	1
C-6	10 pF	±10%	〃		1
C-5	16 pF	〃	〃		
Screw, nut & washer					
	Screw	(2 × 4)			1
	〃	(2 × 6)			2
	Tapping screw	(3 × 5)			1
	Screw	(2 × 8)			1
	Tapping screw	(2.3 × 5)			1
	Nut	(M2)			2
	Washer	(2.2 × 5 × 0.3t)			1
	Screw	(VC) (2.6 × 3)			2
	〃	(VR) (1.7 × 4)			1
	〃	(Tuning) (2.6 × 3)			1
	〃	(2 × 4)			1

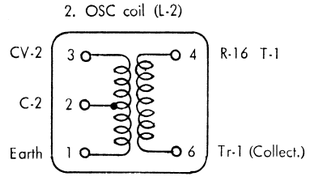
5-20019 Printed Japan

MAIN PARTS CONNECTION

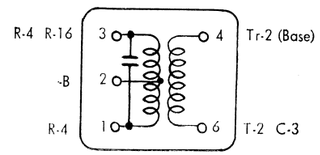
1. Antenna coil (L-1)



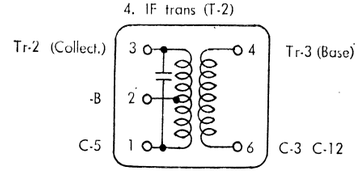
2. OSC coil (L-2)



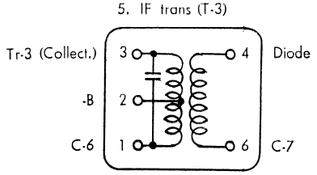
3. IF trans (T-1)



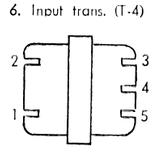
4. IF trans (T-2)

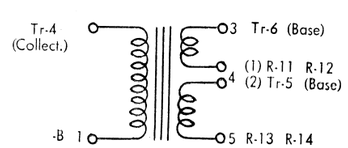


5. IF trans (T-3)

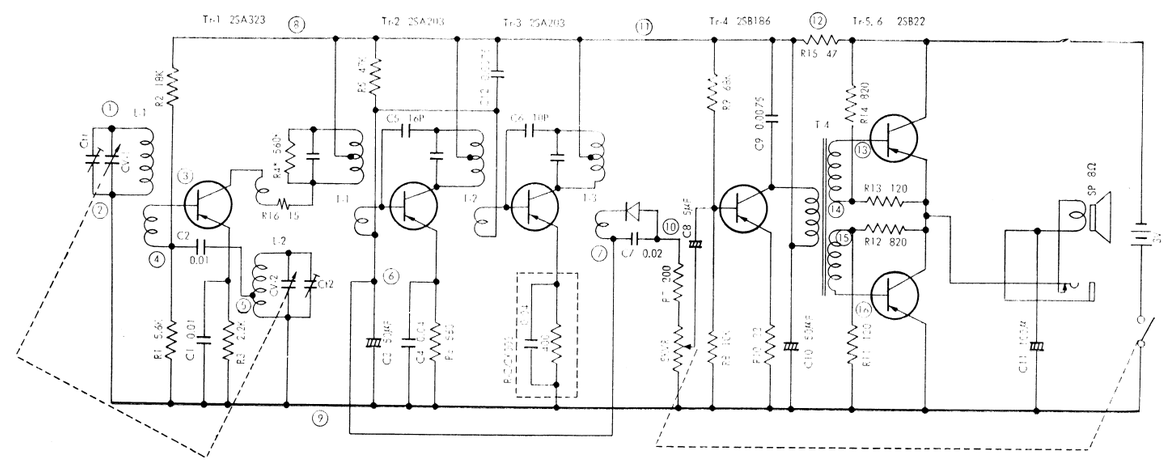


6. Input trans. (T-4)



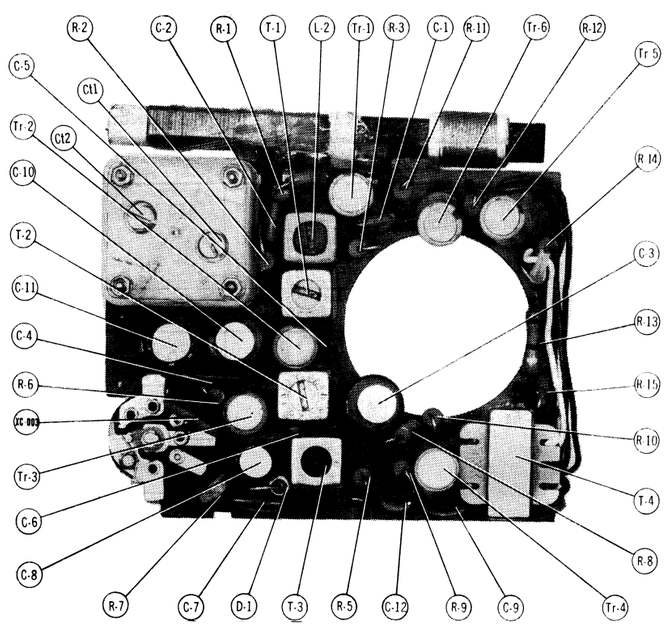


CIRCUIT DIAGRAM

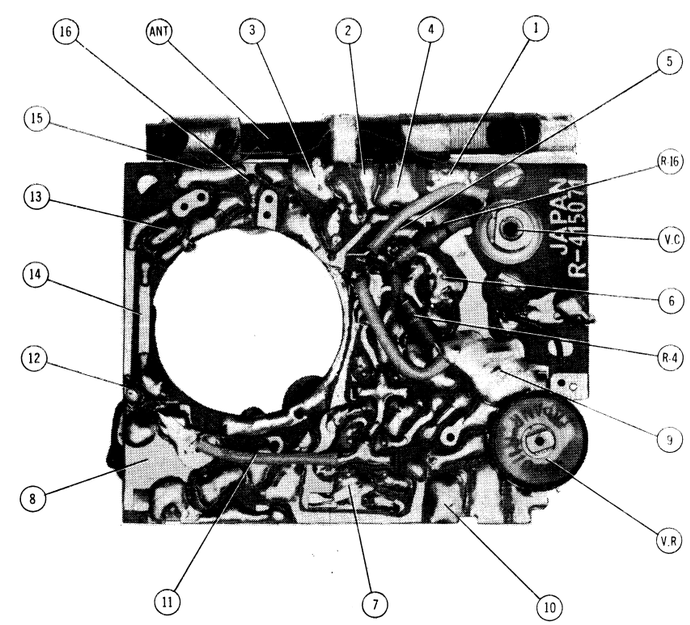


MAIN PARTS LOCATION

Top View of chassis



Bottom View of chassis



Ref. number are Similar to that of on Circuit Diagram.