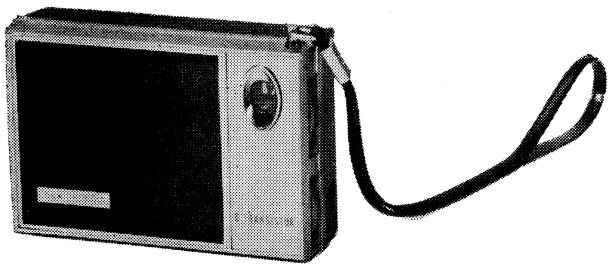
SANYO



All-Transistor Portable Radio

MODEL 6C-64D

SERVICE MANUAL

SANYO ELECTRIC CO., LTD.

OSAKA, JAPAN

INTERNATIONAL DIVISION: SANYO ELECTRIC TRADING CO., LTD.

SPECIFICATIONS

Frequency Range ····· BC ····· 535 – 1,605 kc

Intermediate Frequency ····· 455 kc

Transistors ····· (1) 2SA203 ····· Frequency converter
(2) 2SA202 ····· 1st. IF amplifier
(3) 2SA198 ····· 2nd. IF amplifier
(4) 2SB185 ····· AF amplifier
(5) 2SB187×2 ····· Power amplifier

Diode ····· (6) 1S188 ····· Detector & AGC.

Power Output ····· Undistorted ····· 150 mW
Maximum ····· 200 mW

Sensitivity ····· 1,000 μV/m ··· (for 10 mW output)

Current Drain ····· No signal ····· 11 mA
Maximum ····· 40 mA

Power supply ····· 9-Volt radio battery

Loudspeaker ····· 2″ permanent dynamic speaker
Voice coil impedance 60 ohms

Dimensions ····· 3¾″ wide × 2½″ high × 1⅛ deep
(9.4cm×6.3×3cm)

Weight ····· 0.54 lbs(0.24Kg) (incl. battery)

ALIGNMENT PROCEDURES

IF and RF alignment

Apply volt-meter across the voice coil. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain 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	IFT 3 〃 2 〃 1
BROADCAST RF ALIGNMENT				
2	Radiate signal through the loop antenna which conncted with signal generator output cable.	520 kc	Lower end	L2
3		1,650 kc	Upper end	Cv-2 trim.
4		Repeat steps 2 and 3.		
5		600 kc	600 kc	L1
6		1,400 kc	1,400 kc	Cv-1 trim.
7		Repeat steps 5 and 6.		

PARTS LIST

SYMBOL NO.	STOCK NO.	DESCRIPTION
TRANSISTORS		
Tr 1		2SA203 AA
Tr 2		2SA202 AA
Tr 3		2SA198 AA
Tr 4		2SB185
Tr 5, 6		2SB187
DIODE		
D 1		1S188
COILS		
L 1	R-W2551	Antenna Coil
L 2	R-W8515	OSC Coil

SYMBOL NO.	STOCK NO.	DESCRIPTION

TRANSFORMERS

T 1	R-W5516 or R-W5T531	1st IF Trans.
T 2	R-W5517 or R-W5T532	2nd IF Trans.
T 3	R-W5518 or R-W5T533	3rd IF Trans.
T 4	R-W6540	IPT Trans.

CONTROLS

Cv 1,2	R-C1503or R-C1031	V. C.
VR 1	R-R110503	Volume Control

SPEAKER

SP	R-S6538 or R-S6545a	Speaker

ELECTROLYTIC CAPACITOR

C3, 11,12	R-C9525 or R-C9530	50μF 9V 50μF 10V
C 9	R-C9526 or R-C9531	30μF 3V 30μF 3V
C 8	R-C9527 or R-C9532	5μF 6V 5μF 6V

FIXED CAPACITOR—1

C 2		0.01μF ±20% 50V
C10		0.005μF ±20% 50V
C14		0.0075μF ±20% 50V
C 6		10pF ±10% 25V
C 5		12pF 〃 〃 or 10pF 〃 〃
C15, C16		0.002μF ±20% 50V

SYMBOL NO.	STOCK NO.	DESCRIPTION

FIXED CAPACITOR—2

C13		0.04 +80−20% 25V
C 7		0.02μF ±20% 50V

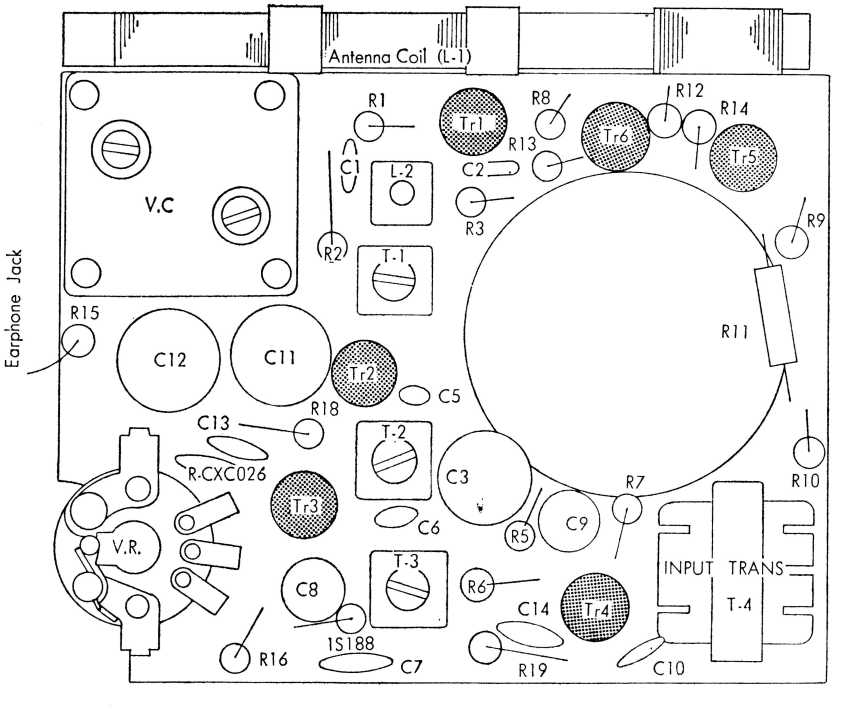
FIXED RESISTOR

R 1		5.6K ohm ±10%
R 2		22 K 〃 〃
R 3		3.9K 〃 〃
R18		1.5K ohm ±10%
R 5		6.8K 〃 〃
R 6		27 K 〃 〃
R 7		1 K 〃 〃
R10		220 ohms 〃
R15		56 〃 〃
R9,12		3.3K ohm 〃
R11,8		150 ohms 〃
R13,14		5.6 〃 〃
R18		1.5K ohms ±20%
R19		68K ohm ±10%
R16		200 ohms ±20%

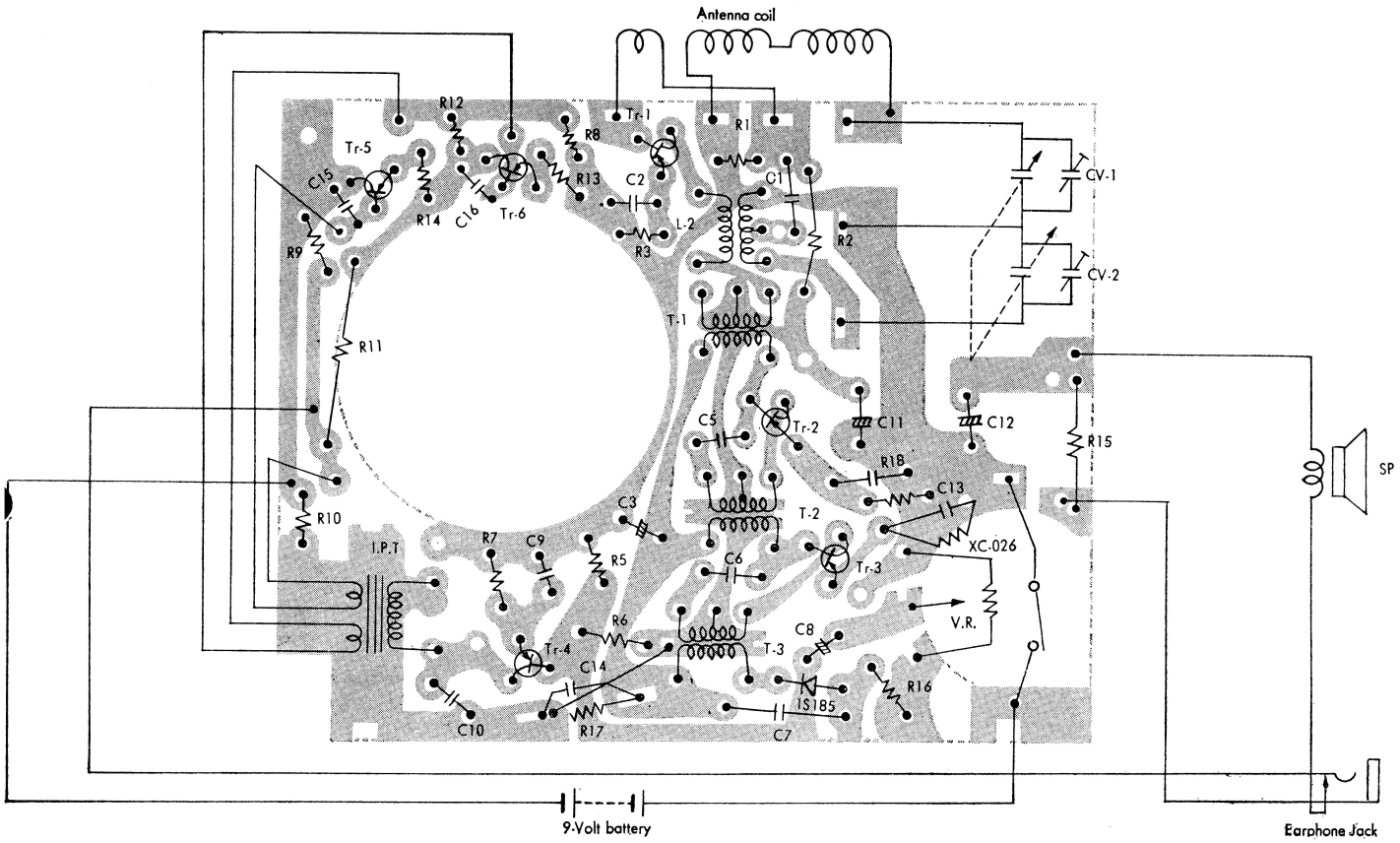
MISCELLANEOUS

	R-395034	Cabinet
	R-315088	Back cover
	R-325069	Dial lens
	R-265220	Finish metal
	R-265221	Metal grill
	R-245102	Stud nut
	R-25068	SP retaining clip
	R-415071	Tuning knob
	R-325032	Volume control knob
	R-S2523	Earphone socket
	R-S1027a	Battery snap terminal
	R-S6560	Earphone

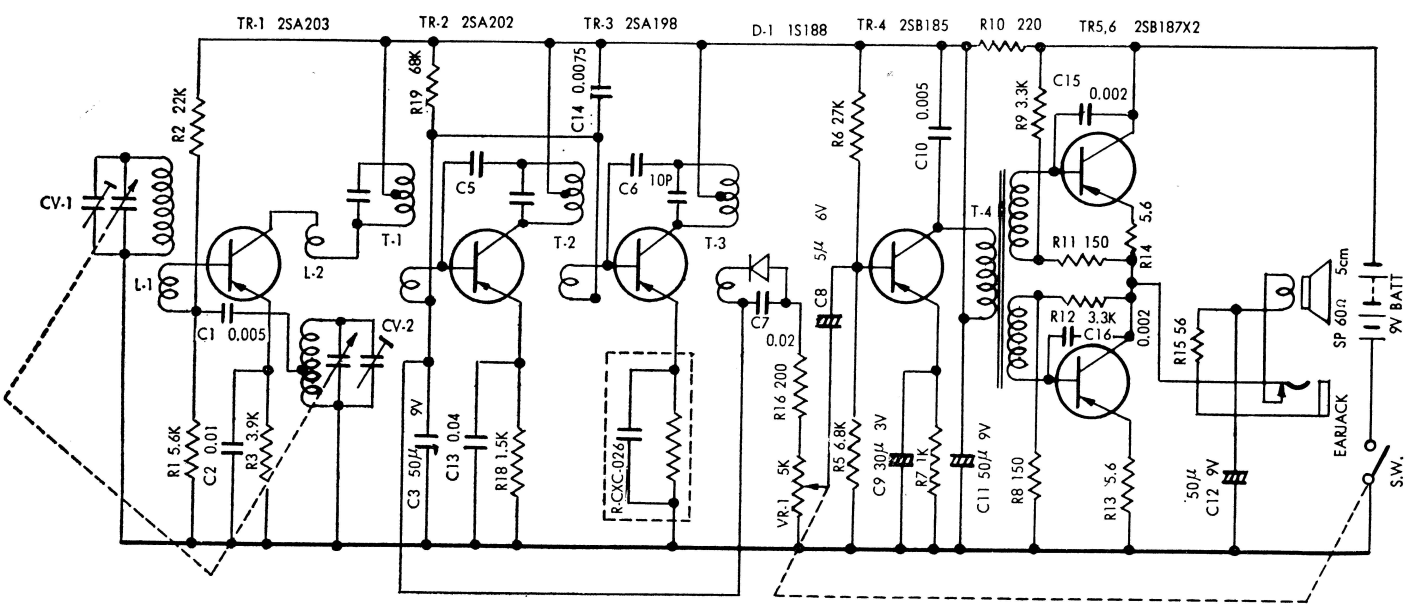
PARTS LOCATION



INTER-PARTS WIRING ILLUSTRATION



CIRCUIT DIAGRAM



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