SANYO

MODEL 6C-02

All-transistor Radio

Service Manual

SPECIFICATIONS

FREQUENCY RANGE	540 Kc/s-1,600 Kc/s
INTERMEDIATE FREQUENCY	455 Kc/s
TRANSISTOR COMPONENT	
2SA201 or 2SA181	Frequency Converter
2SA202 or 2SA180	1st. I. F. Amplifier
2SA203 or 2SA182	2nd. I. F. Amplifier
2SB186	A. F. Amplifier
2SB187 × 2	Power Amplifier (B class pushpull)
GERMANIUM DIODE & THERMISTOR	
1N60	Diode, Detector & A. G. C.
SDT-20	Thermistor, Temperature compensation
POWER OUTPUT	
Undistorted	140 mW
Maximum	200 mW

RADIATION SENSITIVITY
350 μV/m lower limit for 10 mW output

BATTERY USED	
Type	6 volts (4 flashlight batteries)
Current consumption	No signal 9 mA Maximum 69 mA
LOUDSPEAKER	
Size and type	12 cm (5 inches) P. D. S.
Voice coil impedance	3.3 ohms
DIMENSIONS	
Width	33.0 cm (13 inches)
Height	15.3 cm (6 inches)
Depth	11.5 cm ($4\frac{1}{2}$ inches)

WEIGHT
Approximately 1,600 grams ($3\frac{1}{2}$ lbs) including batteries

SANYO ELECTRIC CO., LTD.

PART NO.	STOCK NO.	DESCRIPTION

TRANSISTORS

Tr 1	2SA201 or 2SA181	Frequency Converter
Tr 2	2SA202 or 2SA180	1st IF Amplifier
Tr 3	2SA203 or 2SA182	2nd IF Amplifier
Tr 4	2SB186	AF Amplifier
Tr 5	2SB187	Power Amplifier
Tr 6	2SB187	Power Amplifier

DIODE & THERMISTOR

D 1	1N60	Detector & AGC
T H	SDT-20	Temperature Compensation

COILS

	R-S8170a	Antenna Coil
	R-W8011	Oscillator Coil

TRANSFORMERS

IFT 1	R-W5T008	IF Transformer A (C-6038A)
IFT 2	R-W5T009	IF Transformer B (C-6029A)
IFT 3	R-W5T023	IF Transformer C (C-6022A)
	R-W6137	Input Transformer
	R-W6098	Output Transformer

CONTROLS

S W	R-S4106	Slide Switch
V C	R-C1042d	Variable Condenser
V R	R-R12445a	Variable Resistor

LOUDSPEAKER

S P	R-S6104	5" Permanent Dynamic Type, 3.3 ohms voice coil impedance

RESISTORS FIXED

R 1		Mold	30K	ohm	±10%	½W
R 2		R-ohm	4K	ohm	± 5%	¼W
R 3		Mold	1.5K	ohm	±10%	½W
R 4		R-ohm	90K	ohm	± 5%	¼W
R 5		R-ohm	22K	ohm	± 5%	¼W
R 6		R-ohm	2.2K	ohm	± 5%	¼W
R 7		R-ohm	820	ohm	± 5%	¼W
R 8		Mold	200	ohm	±20%	½W
R 9		Mold	5.6K	ohm	±10%	½W
R 11		Mold	20K	ohm	±10%	½W
R 12		Mold	4K	ohm	±10%	½W

RESISTORS FIXED (Continued)

R 13		Mold	400	ohm	±10%	½W
R 14		Mold	3.3K	ohm	±10%	½W
R 15		Mold	200	ohm	± 5%	½W
R 16		Mold	200	ohm	±20%	½W
R 17		Mold	5	ohm	±10%	½W
R 18		Mold	1.5K	ohm	±10%	½W
R 19		Mold	100	ohm	±10%	½W
R 20		Mold	820K	ohm	±10%	½W

R-ohm : Carbon film

CAPACITORS FIXED

C 1		Ceramic	8pF	±10%	25WV
C 2		Mylar-con	0.004μF	+30,−20%	100WV
C 3		Paper-con	0.005μF	±20%	150WV
C 4		Styrol	330pF	±10%	125WV
C 5		Ceramic	10pF	±10%	25WV
C 6		Electrolytic	30μF	+250,−10%	6WV
C 7		Ceramic	13pF	±10%	25WV
C 8		Ceramic	8pF	±10%	25WV
C 9		Electrolytic	30μF	+250,−10%	6WV
C 10		Ceramic	0.04μF	+80,−20%	25WV
C 11		Ceramic	0.01μF	+80,−20%	25WV
C 12		Ceramic	0.02μF	+80,−20%	25WV
C 13		Electrolytic	30μF	+250,−10%	6WV
C 14		Electrolytic	30μF	+250,−10%	6WV
C 15		Mylar	0.005μF	+30,−20%	100WV
C 16		Mylar	0.05μF	+30,−20%	100WV
C 17		Electrolytic	100μF	+250,−10%	6WV
C 18		Electrolytic	120μF	+250,−10%	10WV
C 19		Mylar	0.05μF	+30,−20%	100WV
C 20		Electrolytic	50μF	+250,−10%	9WV
C 21		Ceramic	0.04μF	+80,−20%	25WV
C 22		Ceramic	0.01μF	+80,−20%	25WV
C 23		Mylar	500pF	+30,−20%	100WV

CABINET

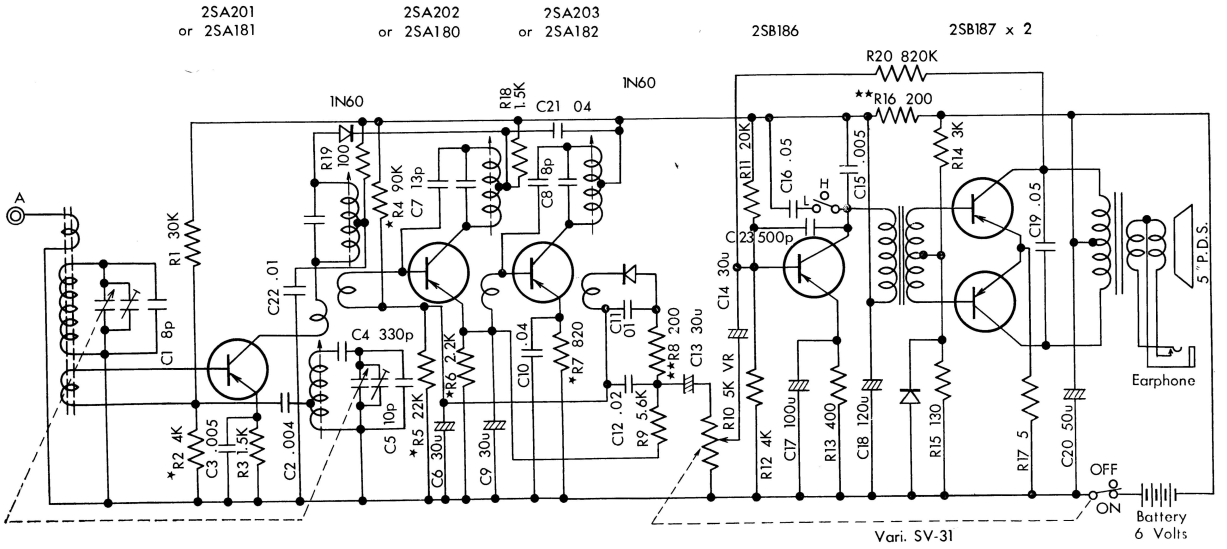
	R-31326	Cabinet
	R-31328	Panel
	R-32127	Dial
	R-35096a	Handle
	R-26226a	Decoration Panel

MISCELLANEOUS

	R-31327	Battery Case
	R-23391	Terminal +
	R-S8173	Terminal −
	R-33192	Knob
	R-S8157	Drum
	R-S2025a	Antenna Socket
	R-S2040	Earphone Socket
	R-35171	Battery Inserting Tube
	R-S1054	Earphone Plug

Printed in Japan

6C-02 CIRCUIT DIAGRAM



NOTE: Error of resistance Value,
★Mark 5%
★★Mark 20%
NO Mark 10%

When SDT-20 (thermistor) used,
R14 3.3K ±10%
R15 200 ± 5%

ALIGNMENT PROCEDURES

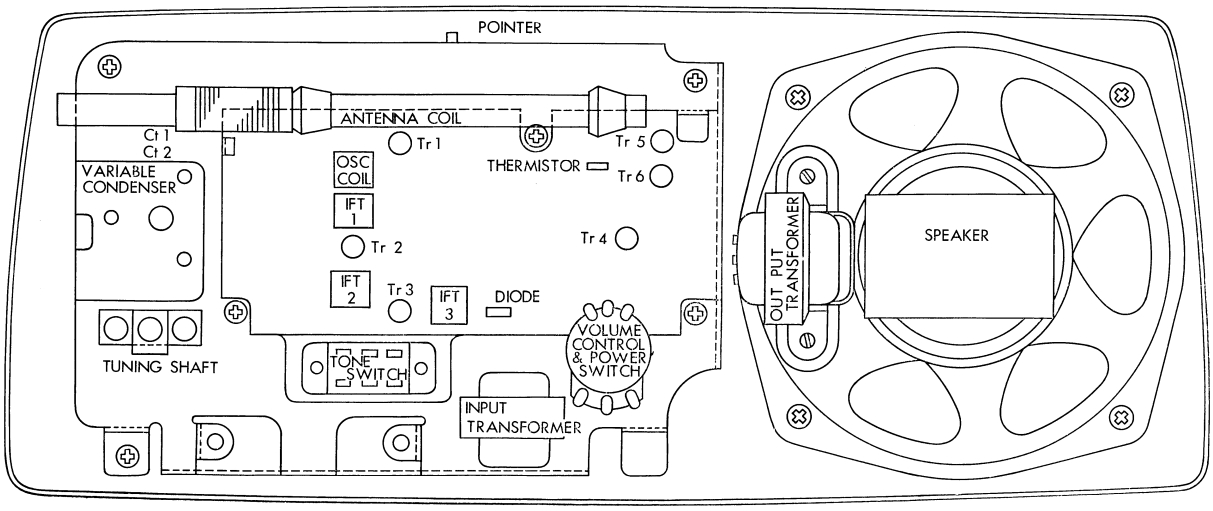
Output meter alignment; Connect the volt-meter with the both ends of the voice coil, and set the volume control at maximum.

Test oscillator

For all alignment operations, connect the low side of the test oscillator to the receiver printed base and keep the oscillator output as low as possible to avoid A. G. C. action.

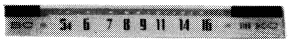
STEP	CONNECT HIGH SIDE OF SIGNAL-GENERATOR TO-	SIGNAL GENERATOR OUTPUT FREQUENCY	DIAL POINT SETTING	ADJUST FOR MAXIMUM OUTPUT
1	Connection lug of Ant. side section of V. C. in series with 0. 1 μF	455 Kc/s	Quiet near the point 530 Kc/s	I. F. Trans. T-3 T-2 T-1
2	Short wire placed near antenna for radiation signal	600 Kc/s	600 Kc/s	Osc. Coil
3	〃	1400 Kc/s	1400 Kc/s	Osc. Trimmer Ct-2
4	〃	Repeat steps 2 and 3		
5	〃	600 Kc/s	600 Kc/s signal	Ant. Coil
6	〃	1400 Kc/s	1400 Kc/s signal	Ant. trimmer Ct-1
7	〃	Repeat steps 5 and 6		

MODEL 6C-02 PARTS LOCATION



(R-26226 a)

(R-32127)



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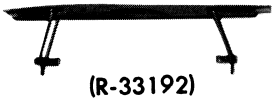

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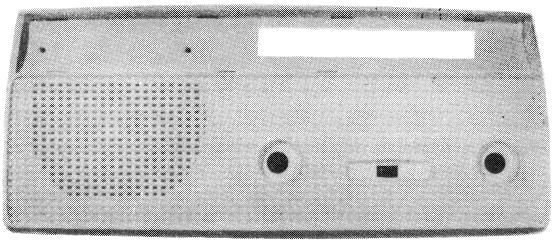

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