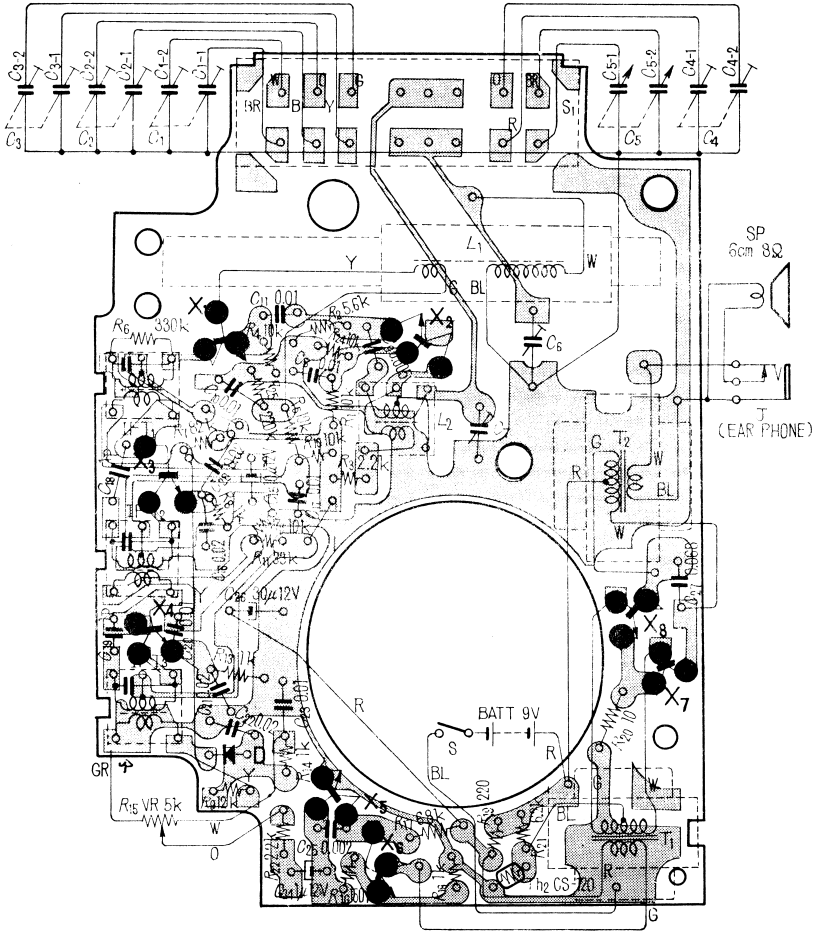
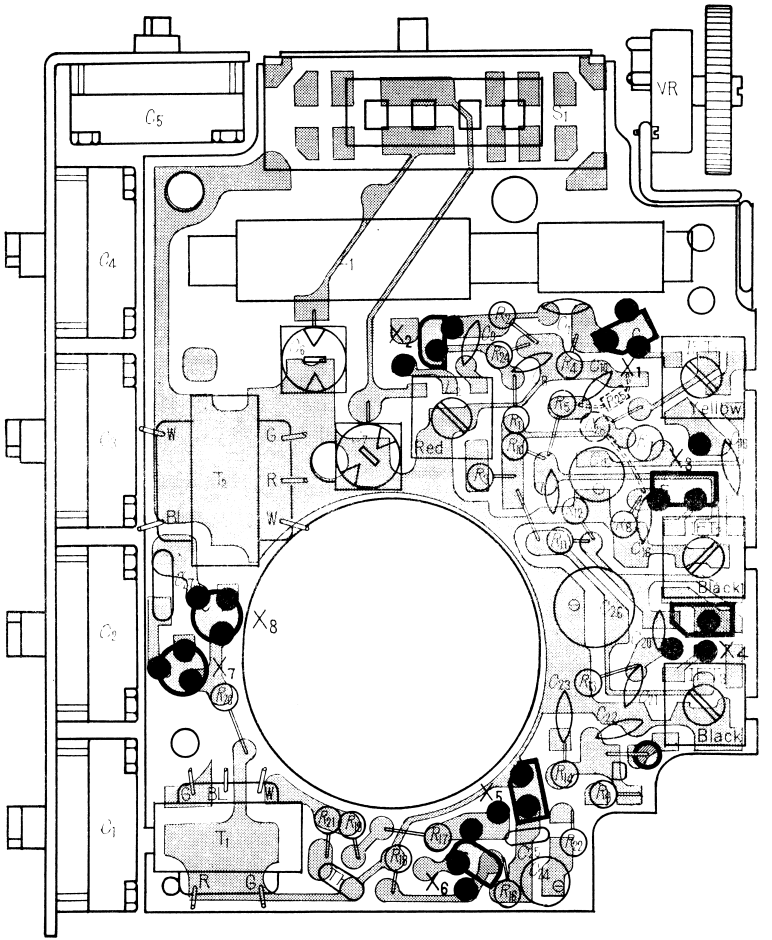
Sony 2R-26

—Printed Side—

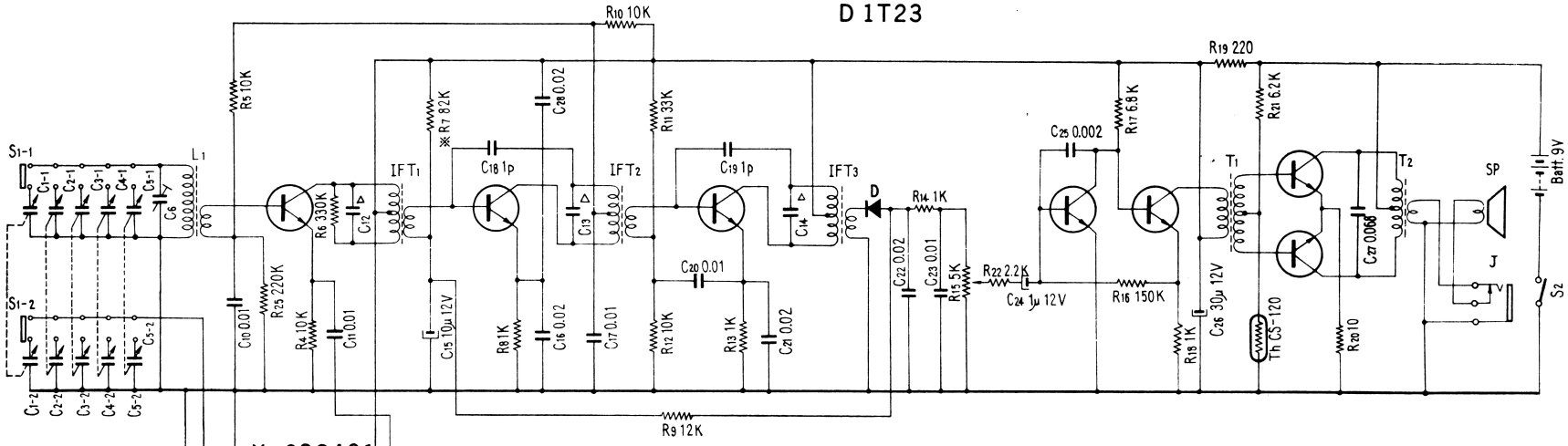


—Parts Side—

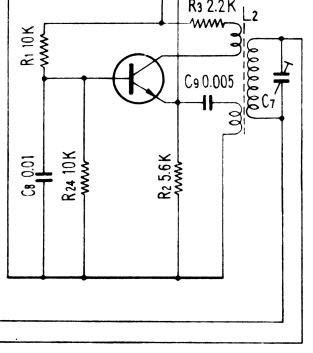


X_1 2SC403 X_3 2SC404 X_4 2SC404 X_5 2SC401 X_6 2SC401 $X_{7,8}$ 2SD64

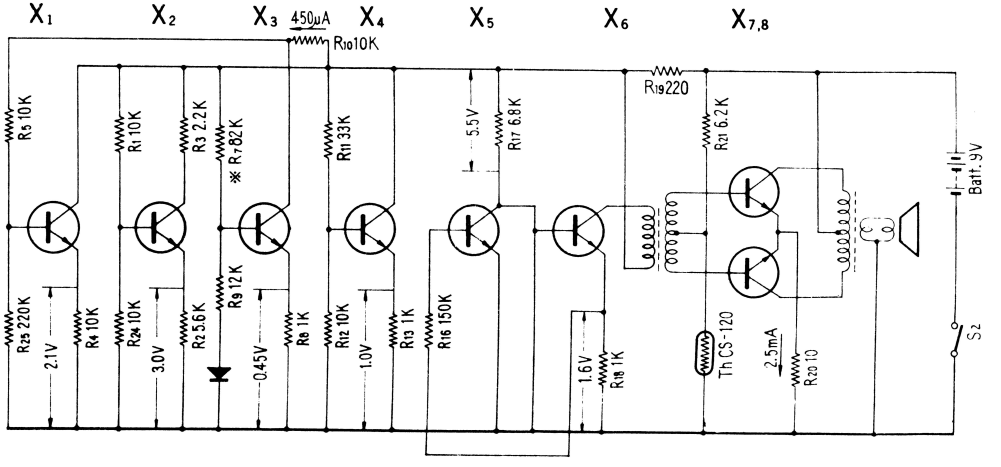
D 1T23



X_2 2SC401



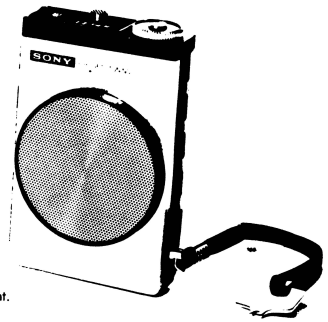
Voltage and Current Distribution Chart at Zero Signal



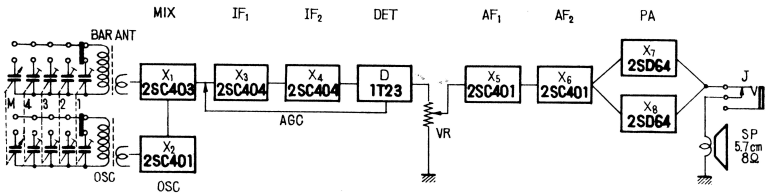
※ To be adjusted

Capacitors marked with △ are built in relative IF Transformers.

Sony 2R-26

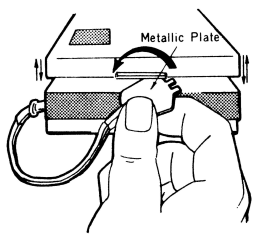


Block Diagram



Removal of Back Cover

Remove the Back Cover by using the Metallic Plate for pre-set tuning attached to the Handle Strap.



(Fig. 1)

Removal of Tuning Knob Holding Screw

(1) Insert the tips of tweezers into the two holes in the head of the Tuning Knob Holding Screw as shown in Fig. 2.

(2) Turn the tweezers counter-clockwise until the Screw is removed.

Note : Take care not to scratch the head surface of the Screw.

(Fig. 2)

Removal of Circuit Board

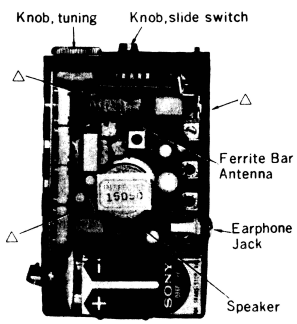
(1) Open the Back Cover.

(2) Remove the Battery from the Battery Snap.

(3) Remove the Tuning Knob.

(4) Remove the Slide Switch Knob (screw type) by turning it counter-clockwise.

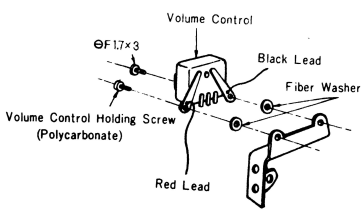
(5) Remove the three Screws marked with △ in Fig. 3 and remove the Circuit Board gently.



(Fig. 3)

Caution on Repair

When attaching the Volume Control to the Volume Control Holding Bracket, never fail to put Fiber Washers between them, and apply the one (polycarbonate) of the two Volume Control Holding Screws to the terminal with the red lead and the other (−) F1.7×3 to that with the black lead as shown in Fig. 4.



(Fig. 4)

Frequency Coverage and Tracking Adjustment

Preparation for Adjustment

☆ Receiver to be adjusted	
Power Source Voltage :	Keep 9 Volts during the adjustment.
Volume Control Setting :	Maximum
Slide Switch Setting :	Manual
☆ Load for Output :	Connect an 8Ω resistor instead of speaker.
☆ Output Meter : (VTVM can be used also.)	Connect across the Load Resistor 8Ω.
☆ Signal Source :	Use a SSG (Standard Signal Generator) which can deliver RF signals modulated at 30% with 1,000 c/s.
☆ Radiating Antenna :	Use a loop type.
☆ Rated Output :	10 mW (0.29 V across the 8Ω resistor)

a) Frequency Coverage Adjustment

(1) Set the Tuning Capacitor at the maximum capacitance position by turning the Tuning Knob of the Receiver counter-clockwise to the full.

(2) Deliver a 520 Kc signal from the SSG.

(3) Adjust the Oscillator Coil (L_2) to tune to the signal.

(4) Set the Tuning Capacitor at the minimum capacitance position by turning the Tuning Knob of the Receiver clockwise to the full.

(5) Deliver a 1,680 Kc signal from the SSG.

(6) Adjust the Oscillator Trimmer Capacitor (C_7) to tune to the signal.

(7) Repeat the above procedures (1～6) until the frequency range between 520 Kc and 1,680 Kc is fully covered.

b) Tracking Adjustment

(1) Deliver a 620 Kc signal from the SSG.

(2) Tune to the signal by turning the Tuning Knob of the Receiver.

(3) Adjust the position of the Antenna Coil (L_1) along the Ferrite Bar to obtain the maximum output.

(4) Deliver a 1,400 Kc signal from the SSG.

(5) Tune to the signal by turning the Tuning Knob of the Receiver.

(6) Adjust the Antenna Trimmer Capacitor (C_6) to obtain the maximum output.

(7) Repeat the above procedures (1～6) until the maximum output is obtained.

(8) Deliver a 1,400 Kc signal from the SSG.

(9) To tune to the signal by turning the Tuning Knob of the Receiver.

(10) Check that the Maximum Sensitivity of the Receiver is within 60 dB.

Checking of the Maximum Sensitivity at pre-set tuning position

(1) Set the Slide Switch to the position "1"

(2) Deliver a 1,400 Kc signal from the SSG.

(3) Turn the Shaft of the Tuning Capacitor (C_1) from the side of the Receiver to tune to the signal.

(4) Check that the Maximum Sensitivity of the Receiver is within 60 dB.

(5) Set the Slide Switch to the positions, 2, 3 and 4 and check that the Maximum Sensitivity of the Receiver at 1,400 Kc is within 60 dB in any position according to the same procedures as mentioned above.