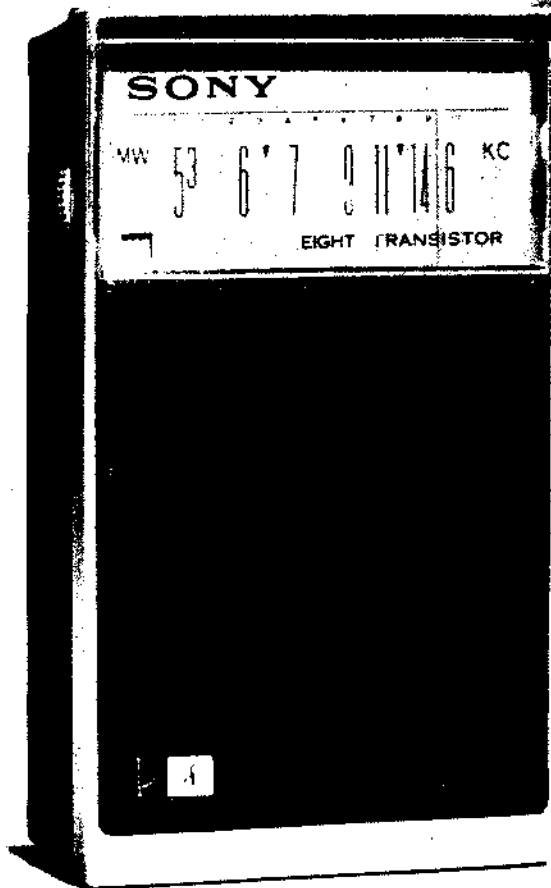


TR-826



Specifications

- Circuit: 8 Transistor Superheterodyne
Frequency Coverage: 530—1,605 Kc (566—187 m)
Intermediate Frequency: 455 Kc
Antenna System: Built-in Ferrite Bar Antenna
Maximum Sensitivity: 100 μ V/m with built-in Ferrite Bar Antenna
(at 10 mW output)
Selectivity: 18 dB at 10 Kc off resonance, at 1,400 Kc
Output Power: 120 mW (undistorted)
Current Drain: 7 mA at zero signal
32 mA at 120 mW output
Speaker: 2-3/8" (6 cm) PM dynamic, 8 Ω
Battery: Eveready 216 (BL-006P) or
Equivalent (9 Volts)
Dimensions: 4-1/8" \times 2-1/2" \times 1-1/8"
(105 \times 63 \times 28 mm)
Weight: 0.44 lb (0.2 Kg.)

SONY®
SERVICING GUIDE

Adjustment and Alignment

a) Frequency Coverage

Lower Limit	Adjust	Upper Limit	Adjust
520 Kc	Core of OSC Coil (L _o)	1,680 Kc	OSC Trimmer (C ₂₋₂)

b) Tracking Alignment

Checking Point	Adjust	Checking Point	Adjust
620 Kc	Position of ANT Coil (L _A)	1,400 Kc	ANT Trimmer (C ₂₋₁)

To Remove the Chassis and Printed Circuit Board from the Cabinet

- 1) Loosen the Back Cover Securing Screw and open the Back Cover.
- 2) Remove three Nuts (①, ② and ③) as shown in Fig. 1.
- 3) Unsolder the Speaker Lead Wires (White and Black) at the Speaker terminals if necessary.

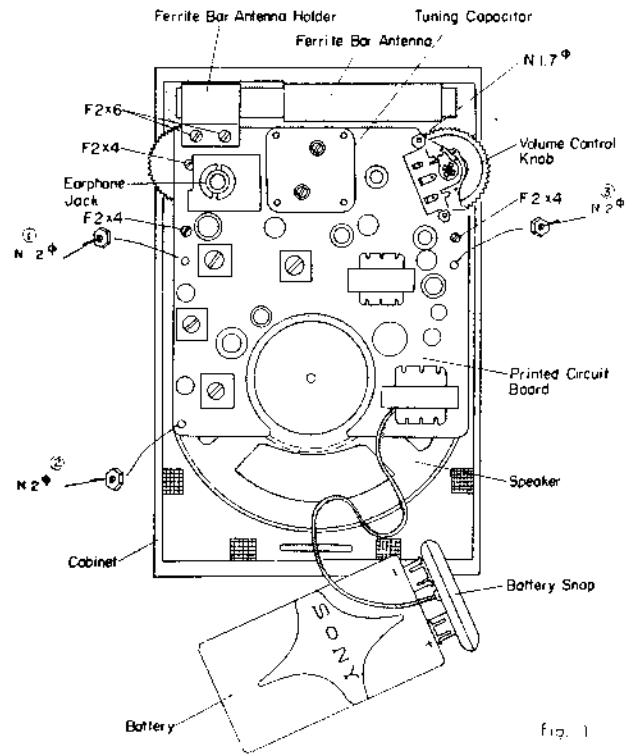
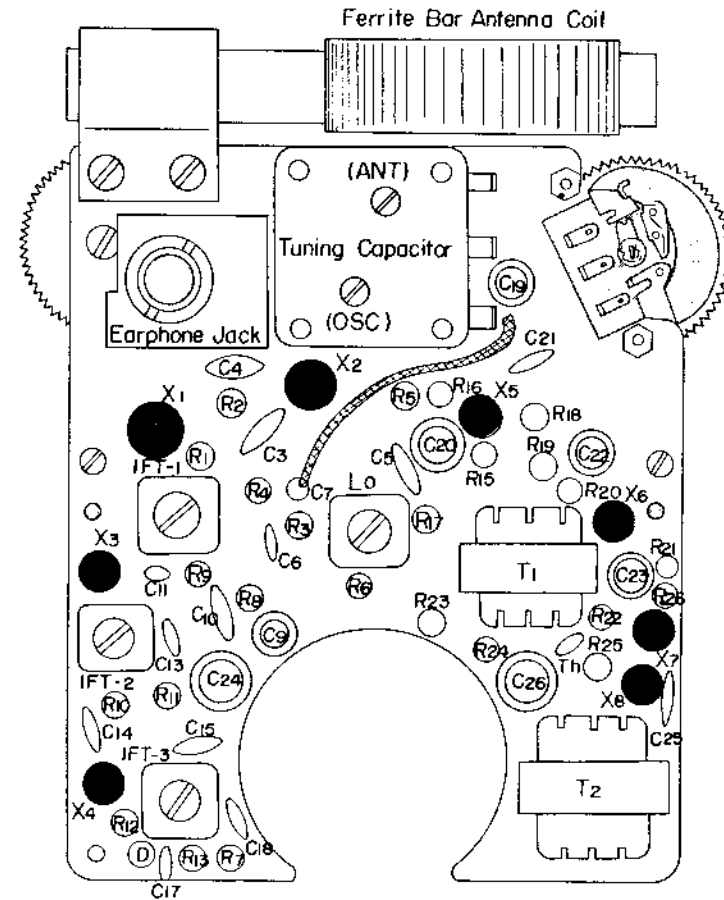


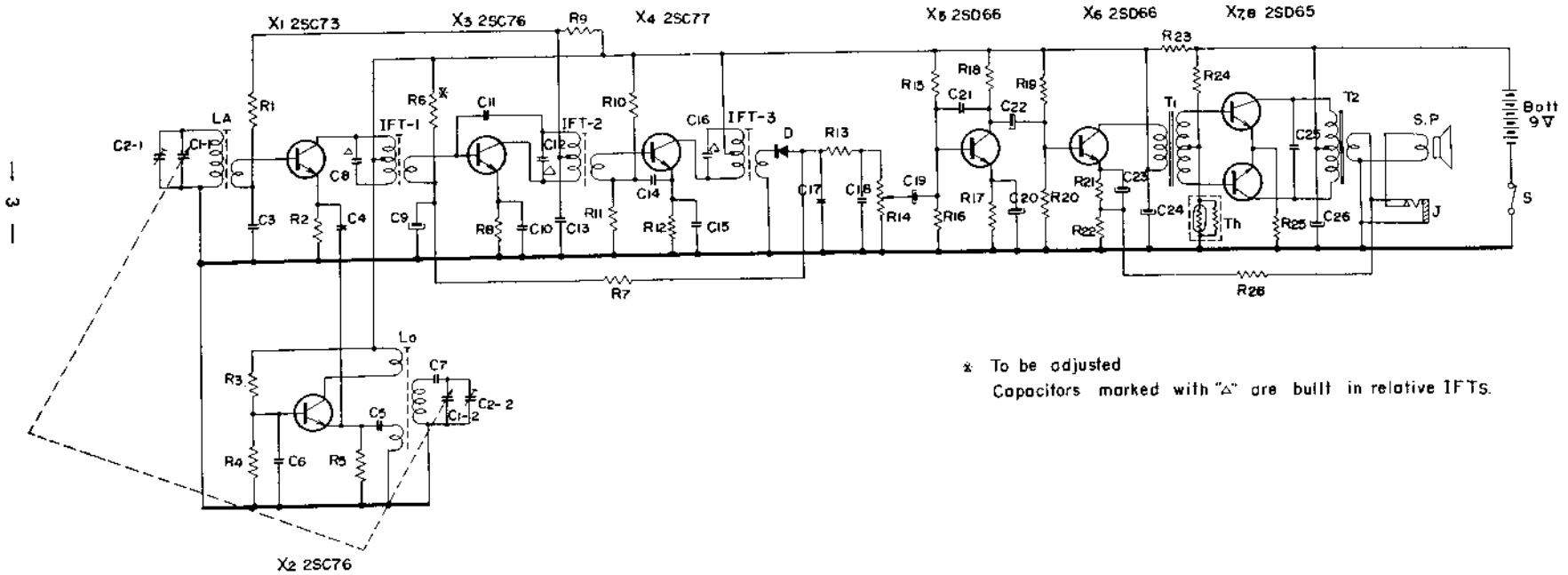
Fig. 1

Mounting Diagram

—Parts Side—



Schematic Diagram



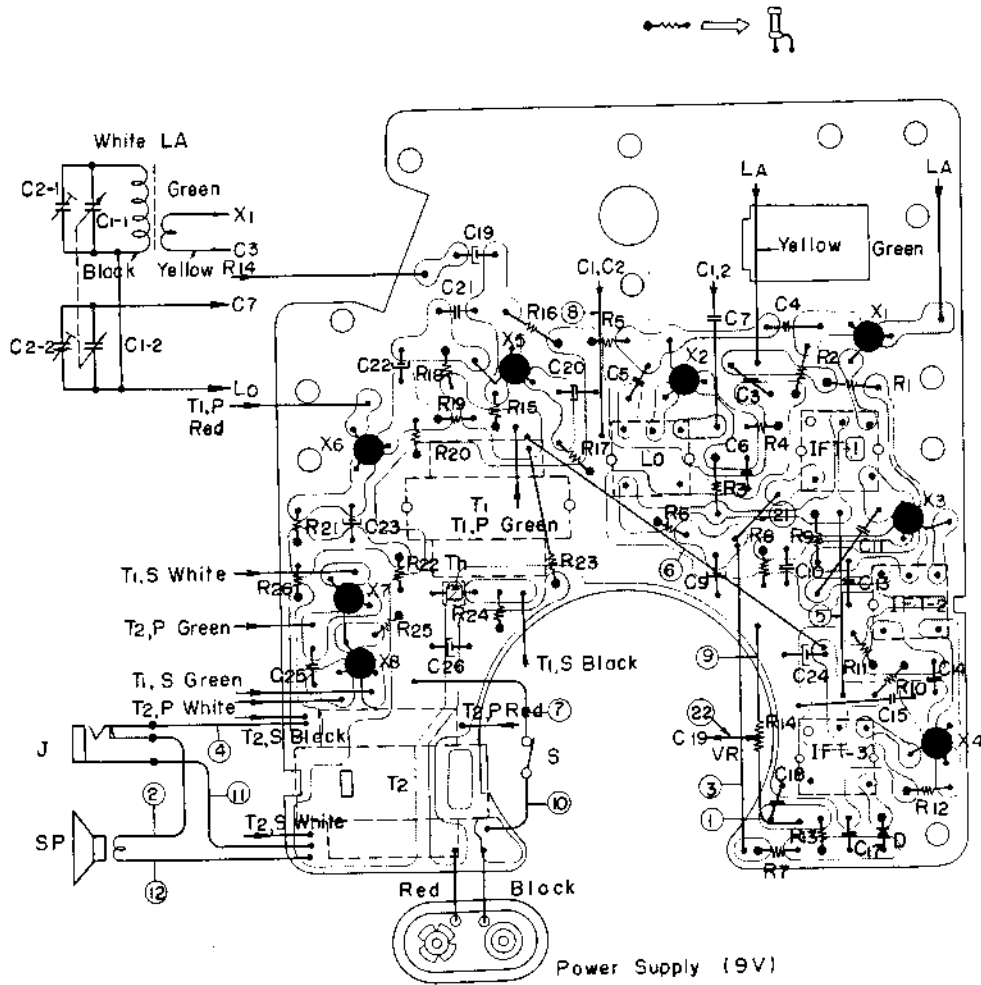
Electronic Parts List

Part No.	Symbol	Description	Part No.	Symbol	Description	Part No.	Symbol	Description
1-401-173-11	LA	Ferrite Bar Antenna	1-203-425-00	R ₄	5.6K Ω $\frac{1}{8}$ W Carbon	1-151-051-00	C ₂₋₁₋₂	Trimmer Capacitor, 2 unit
1-405-095-11	Lo	Oscillator Coil	1-203-446-00	R ₅	2K Ω " "	1-101-073-15	C ₃	0.02 μ F Ceramic
1-403-057-02	IFT ₁	IF Transformer	1-203-614-00	*R ₆	100K Ω " "	1-105-104-11	C ₄	0.002 μ F Mylar
1-403-058-02	IFT ₂	"	1-203-425-00	R ₇	5.6K Ω " "	1-105-104-11	C ₅	0.002 μ F "
1-403-059-02	IFT ₃	"	1-203-420-00	R ₈	470 Ω " "	1-101-072-15	C ₆	0.01 μ F Ceramic
1-423-066-11	T ₁	Driver Transformer	1-203-427-00	R ₉	10K Ω " "	1-103-024-11	C ₇	130PF Styrol
1-427-090-13	T ₂	Output Transformer	1-203-635-00	R ₁₀	39K Ω " "		C ₈	150PF (built in IFT ₁)
1-502-093-11	SP	Speaker	1-203-434-00	R ₁₁	3.3K Ω " "	1-121-103-05	C ₉	10 μ F 3V Electrolytic
1-507-011-00	J	Earphone Jack	1-203-420-00	R ₁₂	470 Ω " "	1-101-073-15	C ₁₀	0.02 μ F Ceramic
1-528-006-00	Batt.	Battery (9 V)	1-203-421-00	R ₁₃	1K Ω " "	1-101-009-11	C ₁₁	1PF "
	X ₁	Transistor 2SC73	1-221-130-11	R ₁₄	5K Ω Volume Control		C ₁₂	150PF (built in IFT ₂)
	X ₂	" 2SC76	1-203-593-00	R ₁₅	36K Ω $\frac{1}{8}$ W Carbon	1-101-072-15	C ₁₃	0.01 μ F Ceramic
	X ₃	" 2SC76	1-203-425-00	R ₁₆	5.6K Ω " "	1-101-072-15	C ₁₄	0.01 μ F "
	X ₄	" 2SC77	1-203-421-00	R ₁₇	1K Ω " "	1-101-072-15	C ₁₅	0.01 μ F "
	X ₅	" 2SD66	1-203-421-00	R ₁₈	1K Ω " "		C ₁₆	150PF (built in IFT ₃)
	X ₆	" 2SD66	1-203-428-00	R ₁₉	27K Ω " "	1-101-072-15	C ₁₇	0.01 μ F Ceramic
	X ₇	" 2SD65	1-203-427-00	R ₂₀	10K Ω " "	1-101-072-15	C ₁₈	0.01 μ F "
	X ₈	" 2SD65	1-203-421-00	R ₂₁	1K Ω " "	1-121-103-05	C ₁₉	10 μ F 3V Electrolytic
	D	Diode 1T23G	1-203-418-00	R ₂₂	10 Ω " "	1-121-103-05	C ₂₀	10 μ F 3V "
	Th	Thermistor CS-120	1-203-419-00	R ₂₃	220 Ω " "	1-101-140-14	C ₂₁	0.005 μ F Ceramic
		Resistor	1-203-426-00	R ₂₄	7.5K Ω " "	1-121-104-05	C ₂₂	10 μ F 6V Electrolytic
1-203-427-00	R ₁	10K Ω $\frac{1}{8}$ W Carbon	1-203-418-00	R ₂₅	10 Ω " "	1-121-101-05	C ₂₃	30 μ F 3V "
1-203-631-00	R ₂	20K Ω " "	1-203-610-00	R ₂₆	680 Ω " "	1-121-110-05	C ₂₄	30 μ F 10V "
1-203-635-00	R ₃	39K Ω " "				1-101-073-15	C ₂₅	0.02 μ F Ceramic
					Capacitor	1-121-110-05	C ₂₆	30 μ F 10V Electrolytic
			1-151-051-00	C ₁₋₁₋₂	Tuning Capacitor, 2 gang			

* To be adjusted

Mounting Diagram

--Printed Side--



No.	PVC Wire Colour	Connection	No.	PVC Wire Colour	Connection
①	White	R13 - R14	⑦	Red	C26 - S
②	"	J - SP	⑧	Black	Lo - C1,2
③	Yellow	R6 - R7	⑨	"	R14 - C24
④	"	J - R26	⑩	"	-B - S
⑤	Red	IFT ₁ - IFT-3	⑪	"	J - G
⑥	"	C24 - R15	⑫	"	SP - G

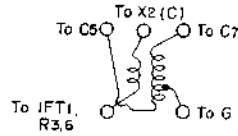
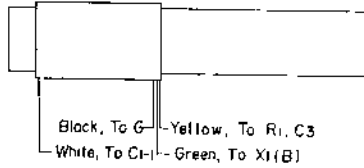
Tinned Copper Wire	
⑰	IFT ₁ - C ₉
⑱	R14 - C19

T₁, P - T₁, Primary T₁, S - T₁, Secondary
 T₂, P - T₂, Primary T₂, S - T₂, Secondary

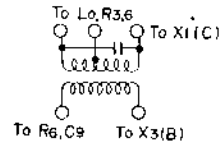
Adjustment and Alignment

a) Frequency Coverage

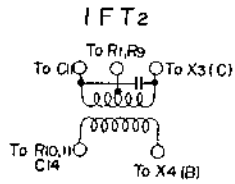
L.A. MW, Ferrite Bar Antenna



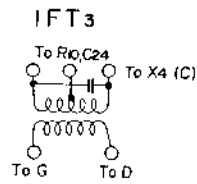
Lo. MW, OSC Coil



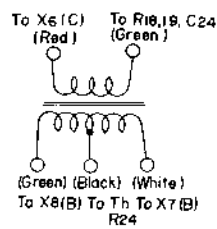
IFT1



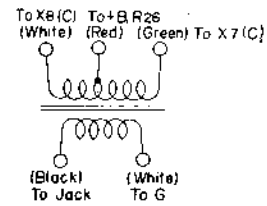
IFT2



IFT3



T1 Driver Transformer

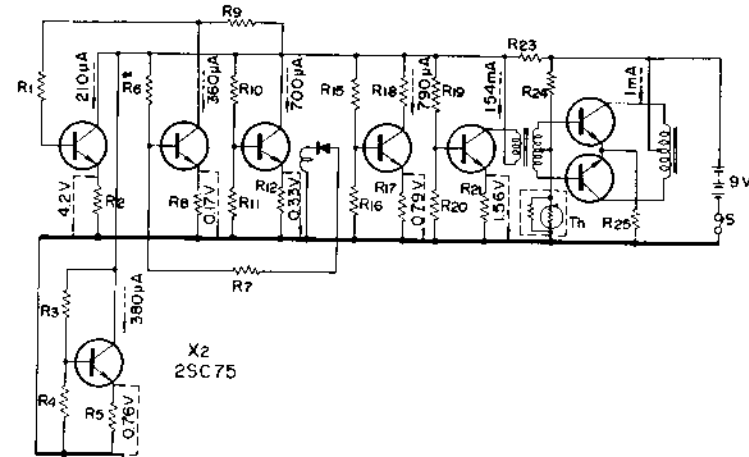


T2 Output Transformer

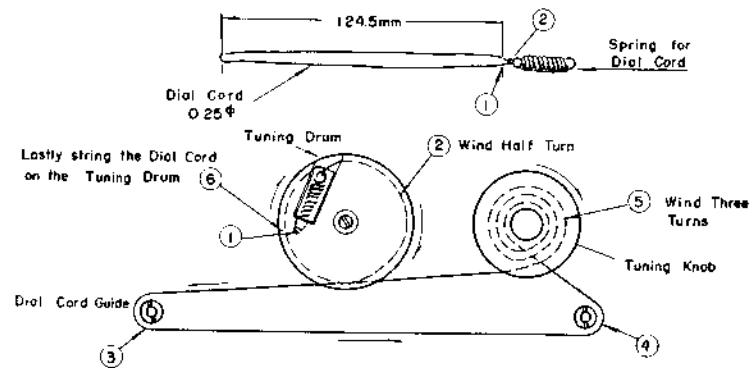
	Impedance	DC Resistance	Impedance	DC Resistance
Primary	3.9 KΩ	330 Ω	Primary	820 Ω
Secondary	1.8 KΩ	180 Ω	Secondary	8 Ω
				11 Ω

Current and Voltage Distribution Chart at Zero Signal

X1 25C73 X3 25C76 X4 25C77 X5 25D66 X6 25D66 X7,8 25D65 x2



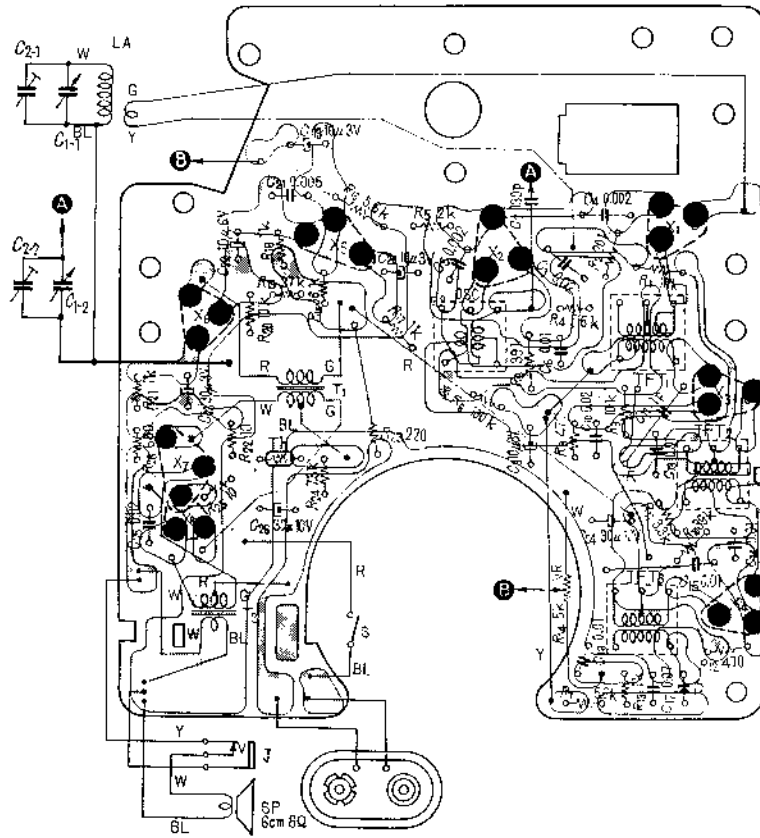
To String the Dial Cord



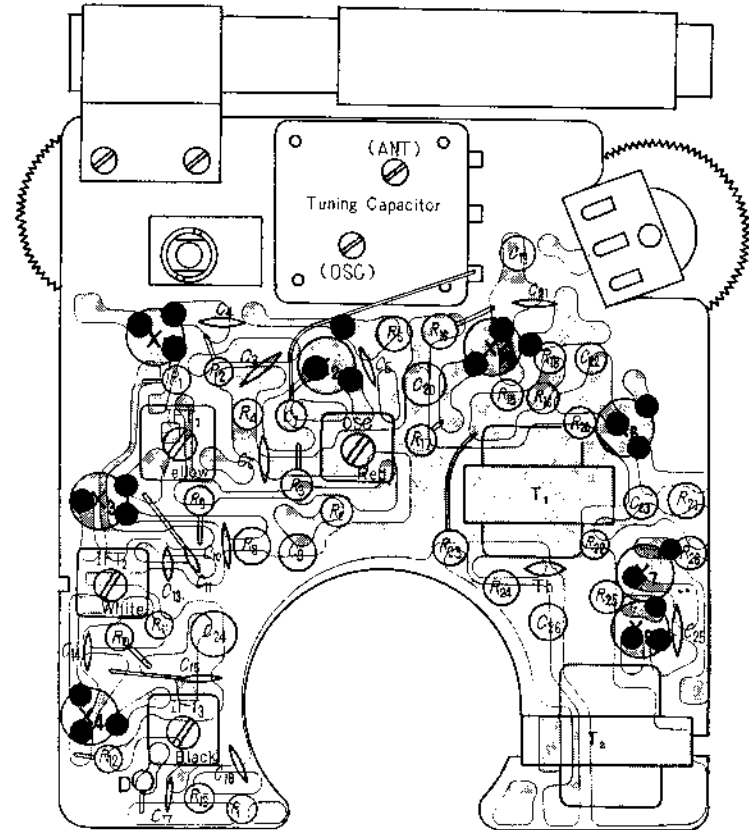
SONY® Transistor Radio Circuits ***1***

Mounting Diagram

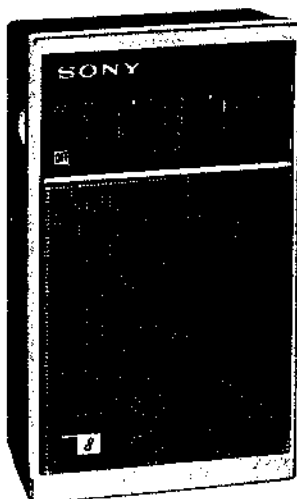
- Printed Side -



- Parts Side -



TR-826



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