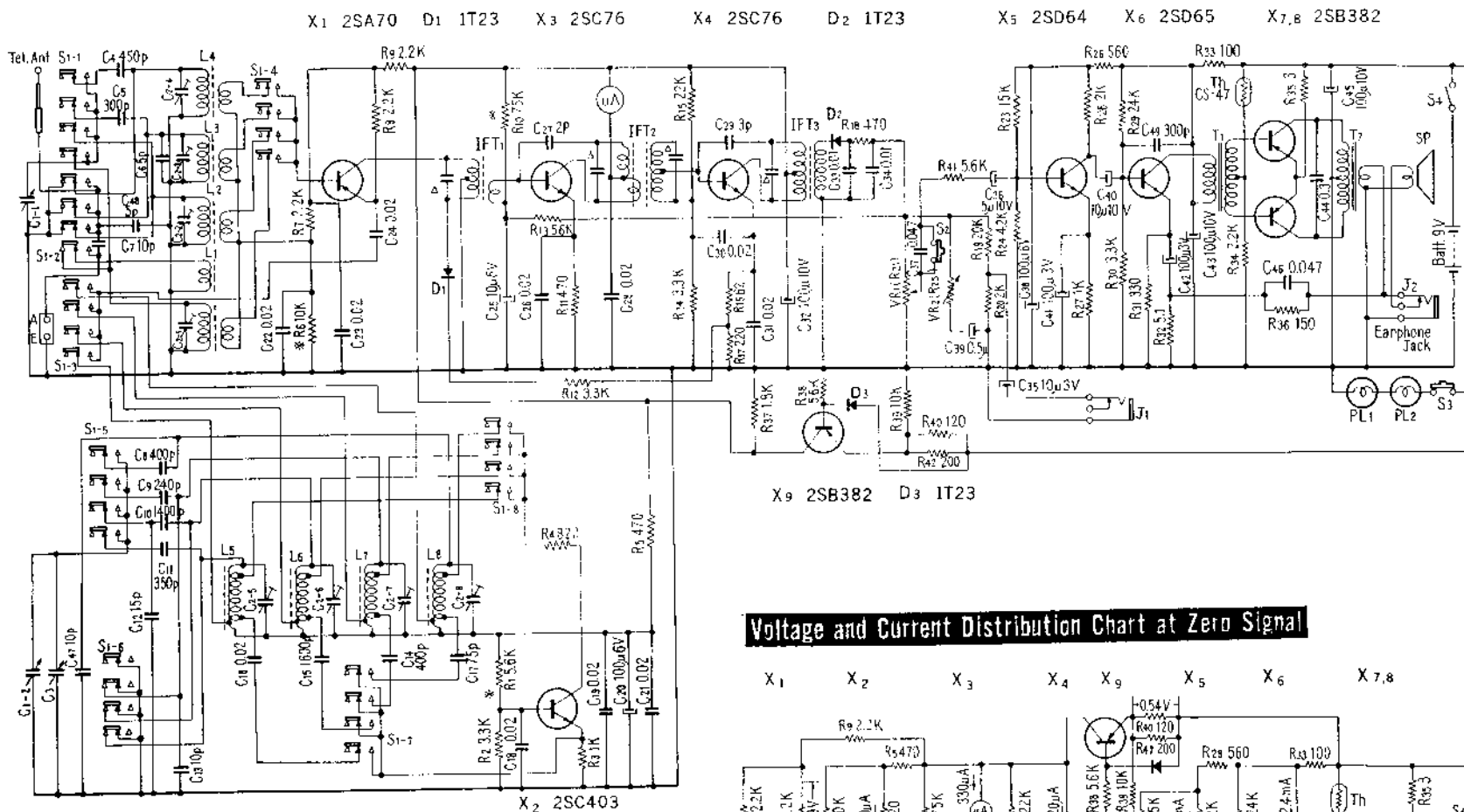


SONY® Transistor Radio Circuits **2**

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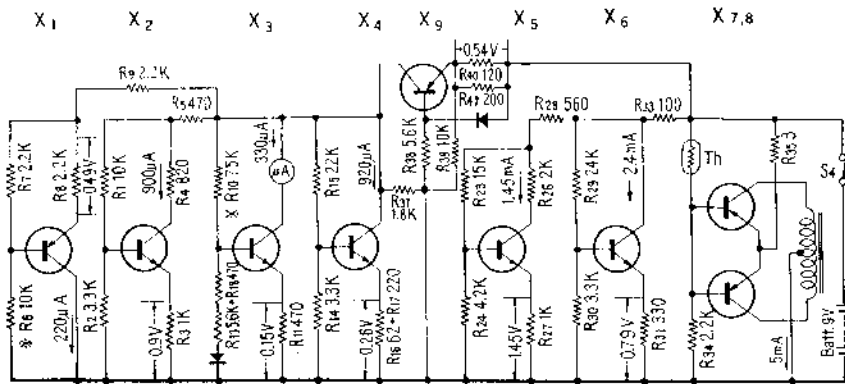
Schematic Diagram

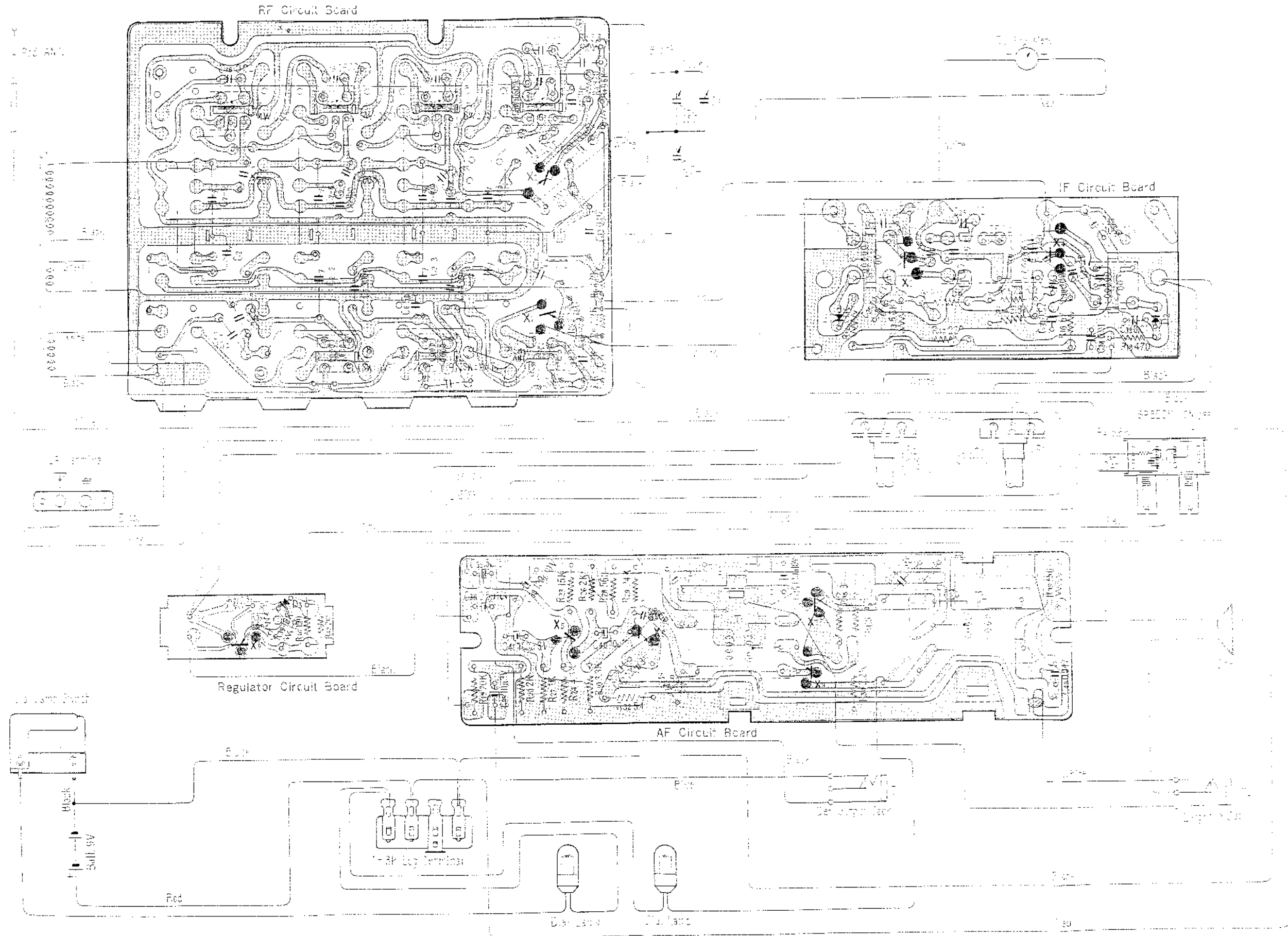


* To be adjusted

Capacitors marked with Δ are built in relative IF Transformers.

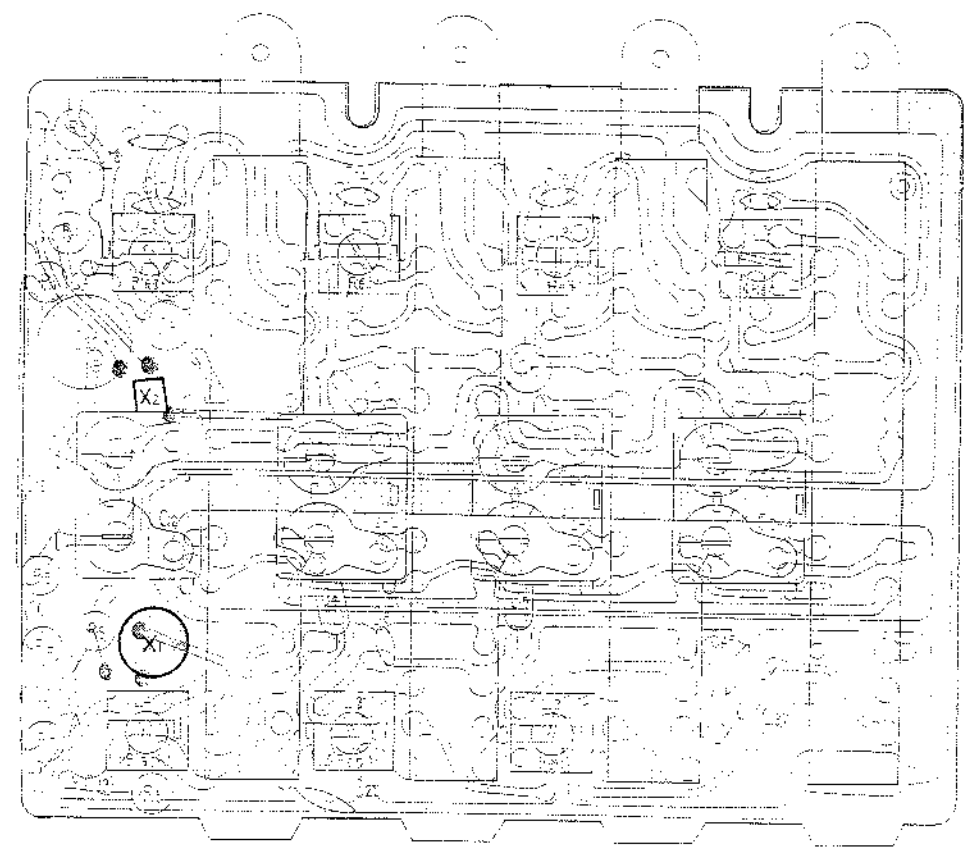
Voltage and Current Distribution Chart at Zero Signal





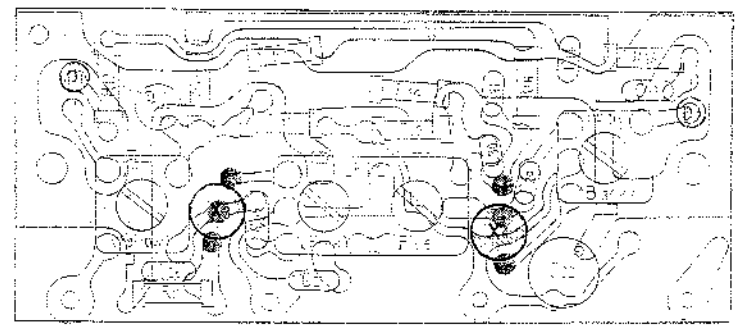
Parts Side

RF Section



Parts Side

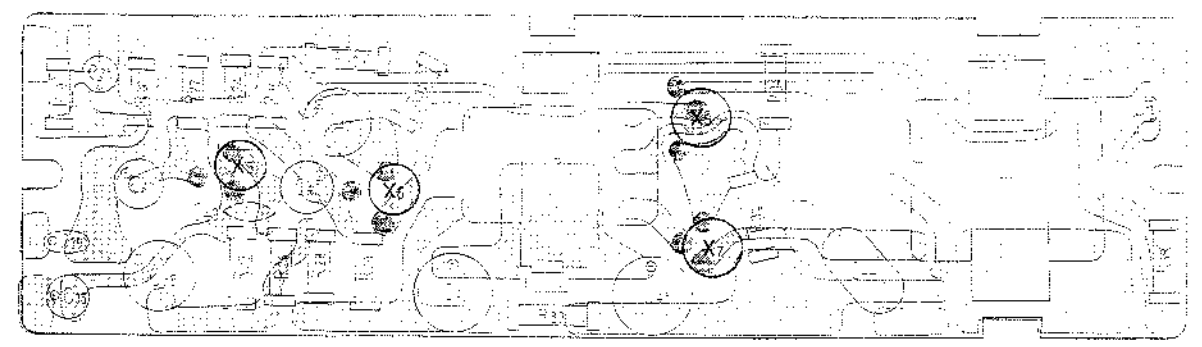
IF Section

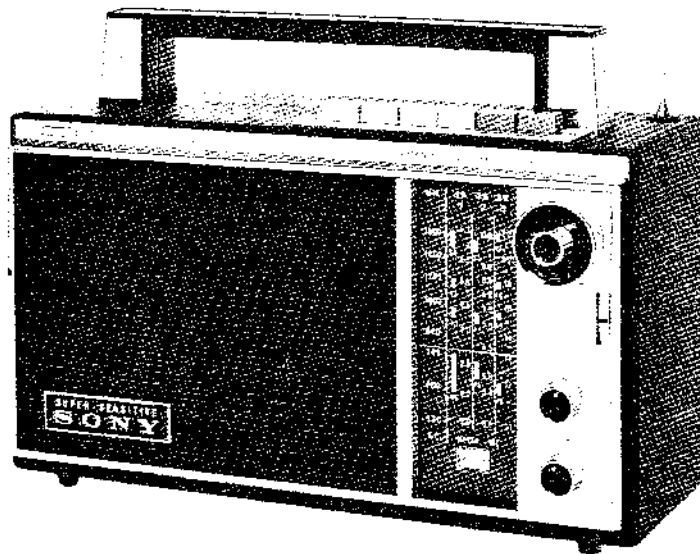


Regulator Section



AF Section





Specifications

Circuit :	9 Transistor Superheterodyne
Frequency Coverage :	MW 520 Kc ~ 1600 Kc (160 ~ 167) SW ₁ 2 ~ 5.1 Mc (180 ~ 225) SW ₂ 5.45 ~ 10.9 Mc (210 ~ 300) SW ₃ 17 ~ 22 Mc (170 ~ 220)
Intermediate Frequency :	455 Kc
Antenna System :	MW Built-in Ferrite Bar Antenna SW ₁ Built-in Telescopic Antenna
Maximum Sensitivity (at 10 mW output) :	MW 26 dB (100 μV) SW ₁ 3 dB (1 μV) SW ₂ 3 dB (1 μV) SW ₃ 3 dB (1 μV)
Selectivity :	20 dB at 10 Kc (AF response 100 Hz)
Output Power :	100 mW (undistorted) 1000 mW (distorted)
Current Drain :	20 mA (at 100% modulation, 100% duty, 100% volume)
Speaker :	10 cm dia, 8W (nominal)
Power Source :	1.5 Size D Cell (4.5 Volt) (Battery)
Dimensions :	241 (H) x 107 (W) x 74 (D) mm (9.5 (H) x 4.2 (W) x 2.9 (D) in.)
Weight :	3.5 Pounds (1.6 kg)

Adjustments

a) Frequency Coverage Adjustment

	Lower Limit	Adjust	Upper Limit	Adjust
MW	520 Kc	Core of MW OSC Coil (C ₁)	1600 Kc	MW OSC Trimmer (C ₂)
SW ₁	1.96 Mc	Core of SW ₁ OSC Coil (C ₁)	5.1 Mc	SW ₁ OSC Trimmer (C ₂)
SW ₂	5.45 Mc	Core of SW ₂ OSC Coil (C ₁)	10.9 Mc	SW ₂ OSC Trimmer (C ₂)
SW ₃	17.0 Mc	Core of SW ₃ OSC Coil (C ₁)	22.4 Mc	SW ₃ OSC Trimmer (C ₂)

b) Tracking Adjustment

	Lower Checking Point	Adjust	Upper Checking Point	Adjust
MW	620 Kc	Position of MW ANT Coil (L ₁)	1400 Kc	MW ANT Trimmer (C ₂)
SW ₁	1.96 Mc	Core of SW ₁ ANT Coil (L ₁)	5.1 Mc	SW ₁ ANT Trimmer (C ₂)
SW ₂	5.45 Mc	Core of SW ₂ ANT Coil (L ₁)	10.9 Mc	SW ₂ ANT Trimmer (C ₂)
SW ₃	17.0 Mc	Core of SW ₃ ANT Coil (L ₁)	22.4 Mc	SW ₃ ANT Trimmer (C ₂)