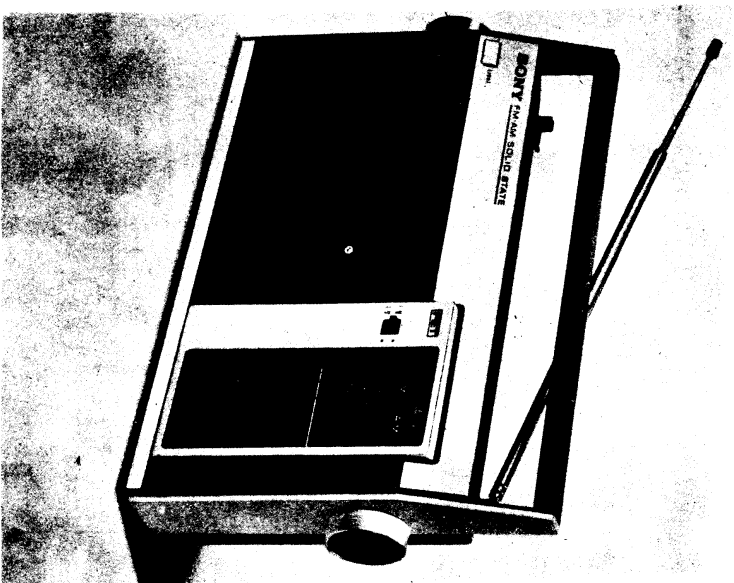


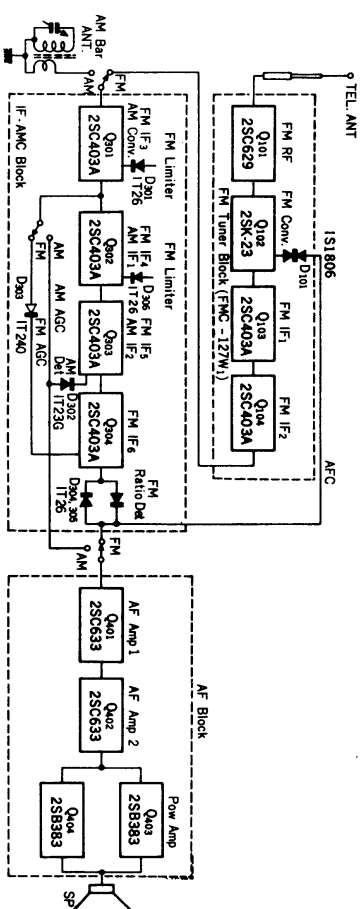
S28-1 Sony 7F-81W



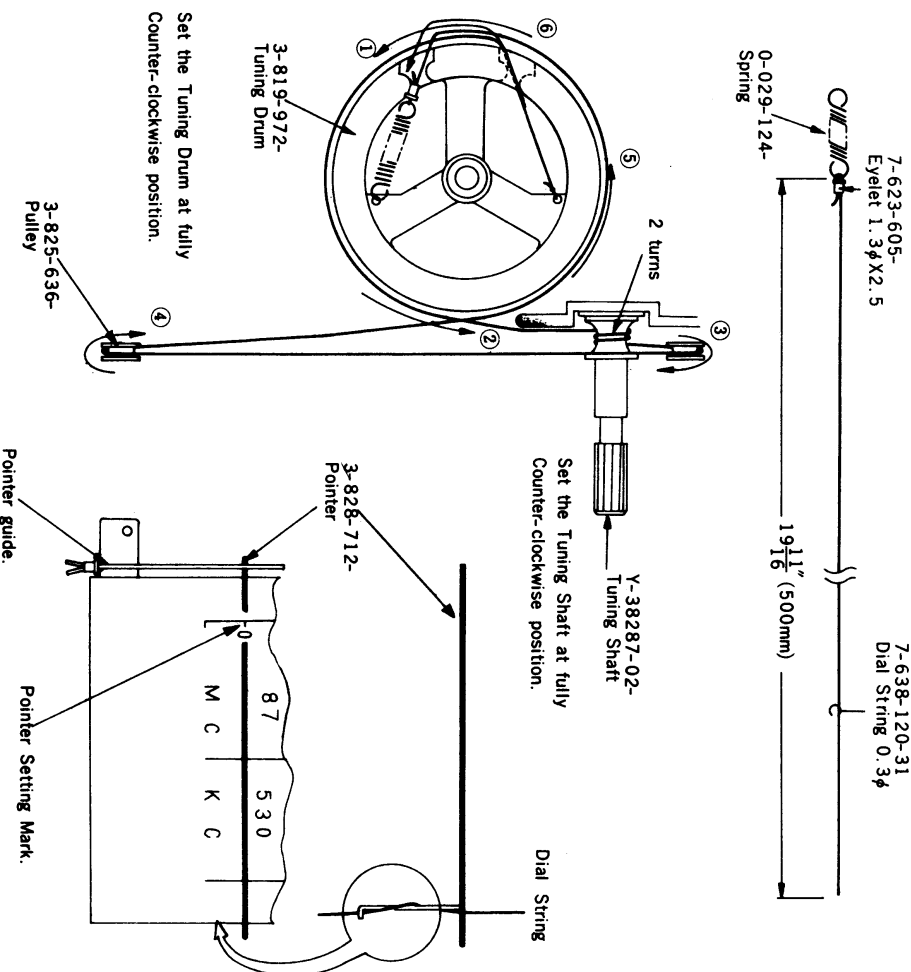
Specifications

Circuit:	12 Transistor Superhetrodyne
Frequency Coverage:	FM 87~108 Mc (3.45~2.77 m) AM 530~1,605 Kc (556~187 m)
Antenna System:	FM Built-in Telescopic Antenna AM Built-in Ferrite Bar Antenna
Intermediate Frequency:	FM 10.7 Mc AM 455 Kc
Maximum Sensitivity:	FM 1 μ V AM 40 μ V/m
Selectivity:	23 dB at 10 Kc off resonance, at 1,400 Kc
Power Output:	550 mW (undistorted) 900 mW (maximum)
Speaker:	4" (10 cm) PM Dynamic, 8 Ω
Current Drain:	22 mA (FM), 14 mA (AM) at zero signal, 235 mA at 550 mW output
Power Source:	Three "D" size Flashlight Batteries, 4.5 V in total or House Current by using SONY AC Power Adaptor (AC-81 W)
Dimensions:	11 $\frac{1}{2}$ "(W) $\times$ 7 $\frac{1}{4}$ "(H) $\times$ 2 $\frac{1}{2}$ "(D) (290 $\times$ 187 $\times$ 61.5 mm)
Weight:	2 lbs. 10 oz. (1.2 Kgs) with Batteries

Block Diagram

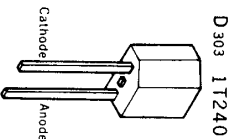
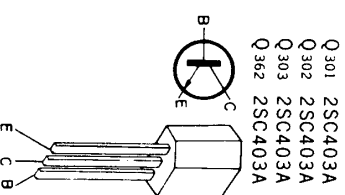
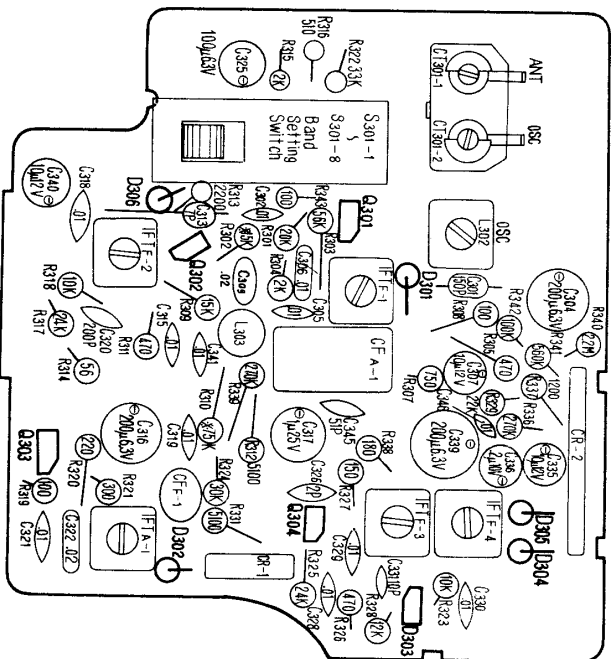


Dial Cord Stringing



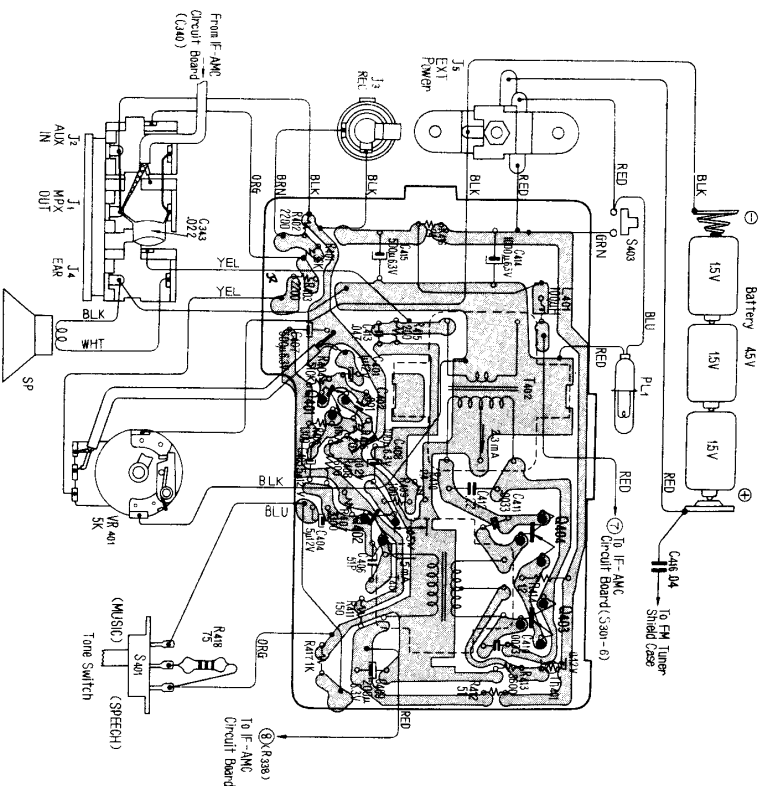
Mounting Diagram

IF—AMC Section
—Component Side—



Mounting Diagram

AF Section
—Conductor Side—



S28-1

7F-81W 7F-81W

Schematic Diagram

Q101 2SC629

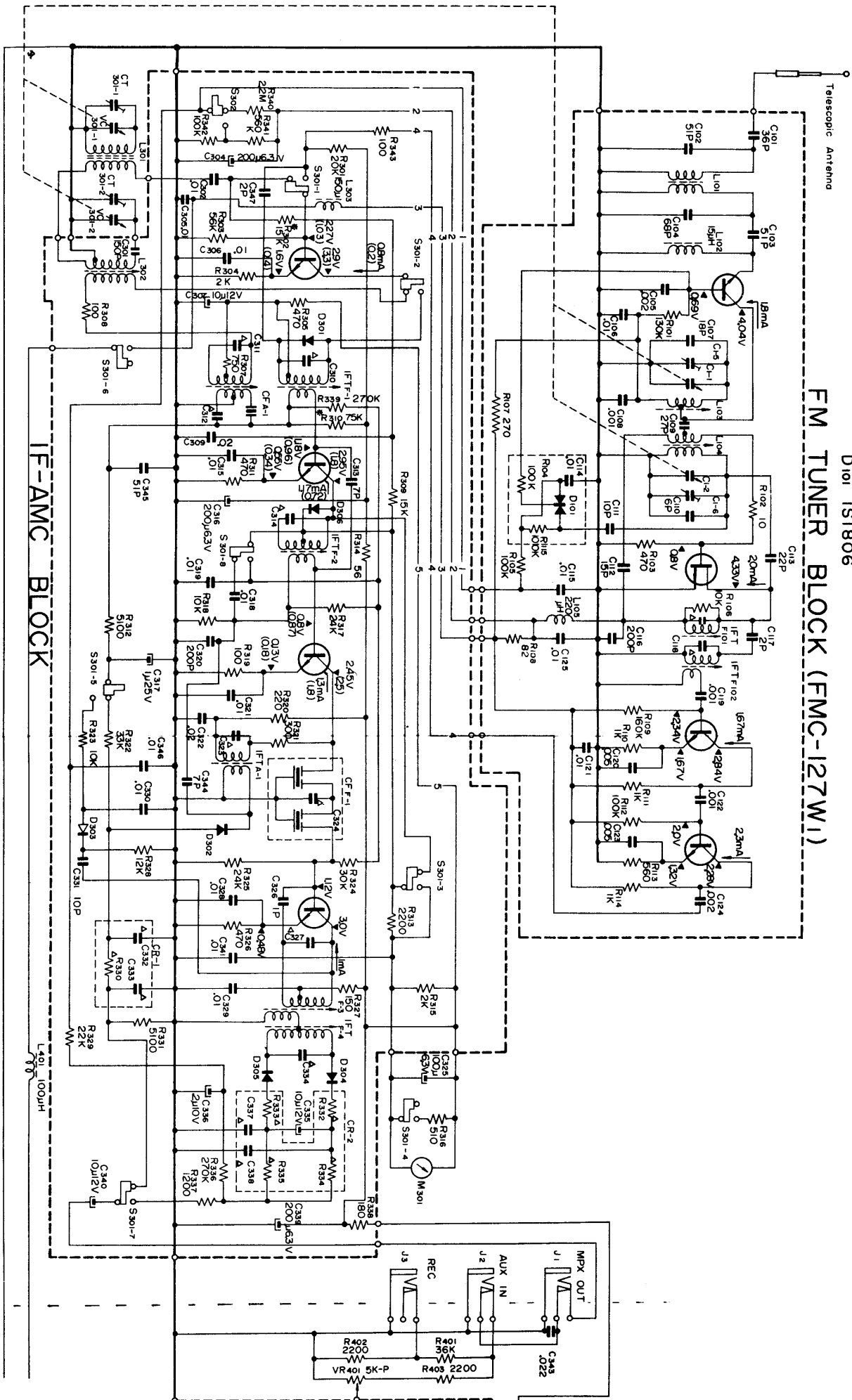
Q102 2SK23

Q103 2SC403A

Q104 2SC403A

D101 1S1806

FM TUNER BLOCK (FMC-127W1)



D301 1T26

D302 1T23G

D303 1T240

D304,305 1T26

Q301 2SC403A

Q302 2SC403A

Q303 2SC403A

Q304 2SC403A

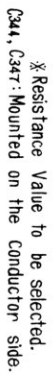
FM Tuner Section

—Conductor Side—



IF — AMC Section

Conductor Side



Adj. Item	S.S.B. (Standard Signal Generator) Coupling	S.S.B. Freq.	Receiver Dial Setting	Connect V.T.V.M.	Adjust	Remarks
FM Freq. Coverage	*Dummy Antenna $S_{SC} = \frac{R_{SC} R_{REC}}{R_{SC} + R_{REC}}$ where R_{SC} : Output Impedance of SSG.	86 Mc (400 c/s ±22.5Kc FM)	Fully Downward	To Earphone jack with 8Ω Load Resistor in parallel.	FM OSC Coil (L _{osc}) FM RF Trimmer (C ₁₋₂)	Adjust for maximum Meter reading. Volume Control : Max. Tone Control : Speech Power Supply : DC 4.5V AFC : OFF
FM Tracking	— ditto —	86 Mc (") 109.5 Mc (")	Tune to 86 Mc Signal Tune to 109.5 Mc Signal	— ditto —	FM RF Coil (L _{RF}) FM OSC Trimmer (C ₁₋₂)	— ditto —
AM Freq. Coverage	Loop Antenna	520 Kc (1000 c/s, 30% AM) 1,680 Kc (")	Fully Downward Fully Upward	— ditto —	AM OSC Coil (L _{osc}) AM OSC Trimmer (C ₁₋₂)	— ditto —
AM Tracking	— ditto —	520 Kc (") 1,400 Kc (")	Tune to 520 Kc Signal Tune to 1,400 Kc Signal	— ditto —	AM ANT Coil (L _{ant}) AM ANT Trimmer (C ₁₋₁)	— ditto —

NOTE

1. Position of the Band Setting Switch shows AM side.
2. Δ: Built in IFT, CR-1, CR-2 and CF (Encapsulated Component)
3. *: Resistance Value to be selected.
4. Value in the Parentheses are for (AM).
5. M: TUNING METER.
6. S301-1 ~ S301-8 : Band Setting (AM-FM)
7. S302 : AFC Switch. (ON)
8. S401 : Tone Switch. (MUSIC)

