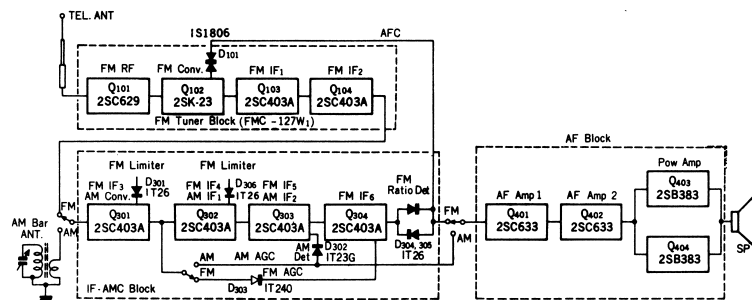


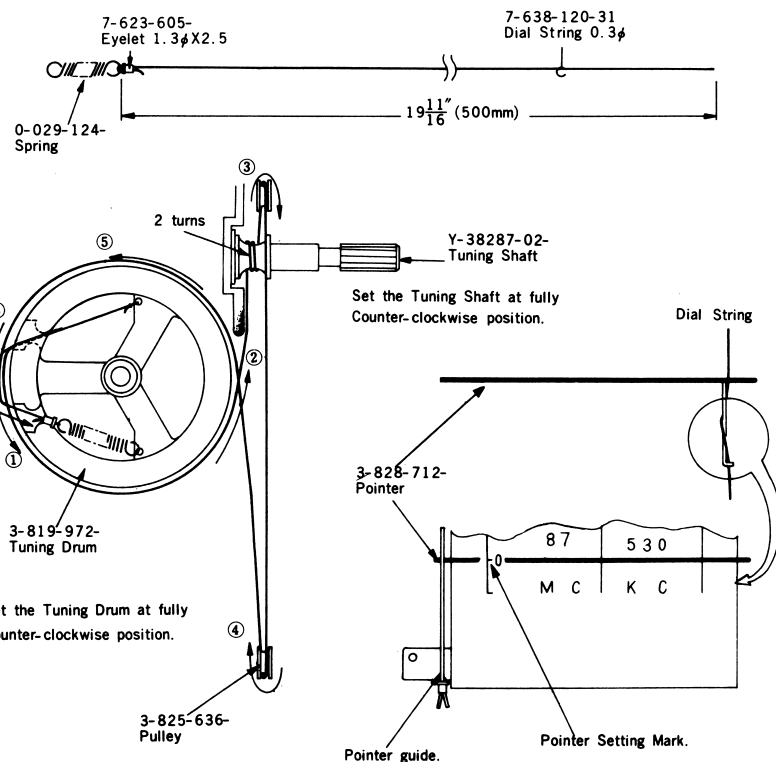
S28-1

Sony 7F-81W

Block Diagram



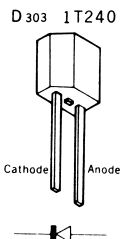
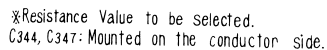
Dial Cord Stringing



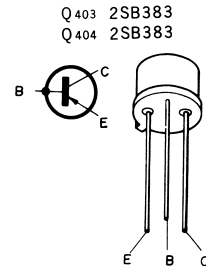
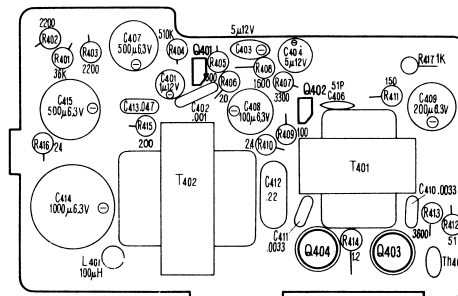
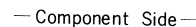
Specifications

- Circuit:** 12 Transistor Superheterodyne
- 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 μV
(at 50mW output) AM 40 μV/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, 8Ω
- 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:** 11¼"(W)×7¼"(H)×2¼"(D)
(290×187×61.5 mm)
- Weight:** 2 lbs. 10 oz. (1.2 Kgs) with Batteries

— Component Side —



—Conductor Side—



S28-1

7F-81W 7F-81W

Schematic Diagram

Q101 2SC629

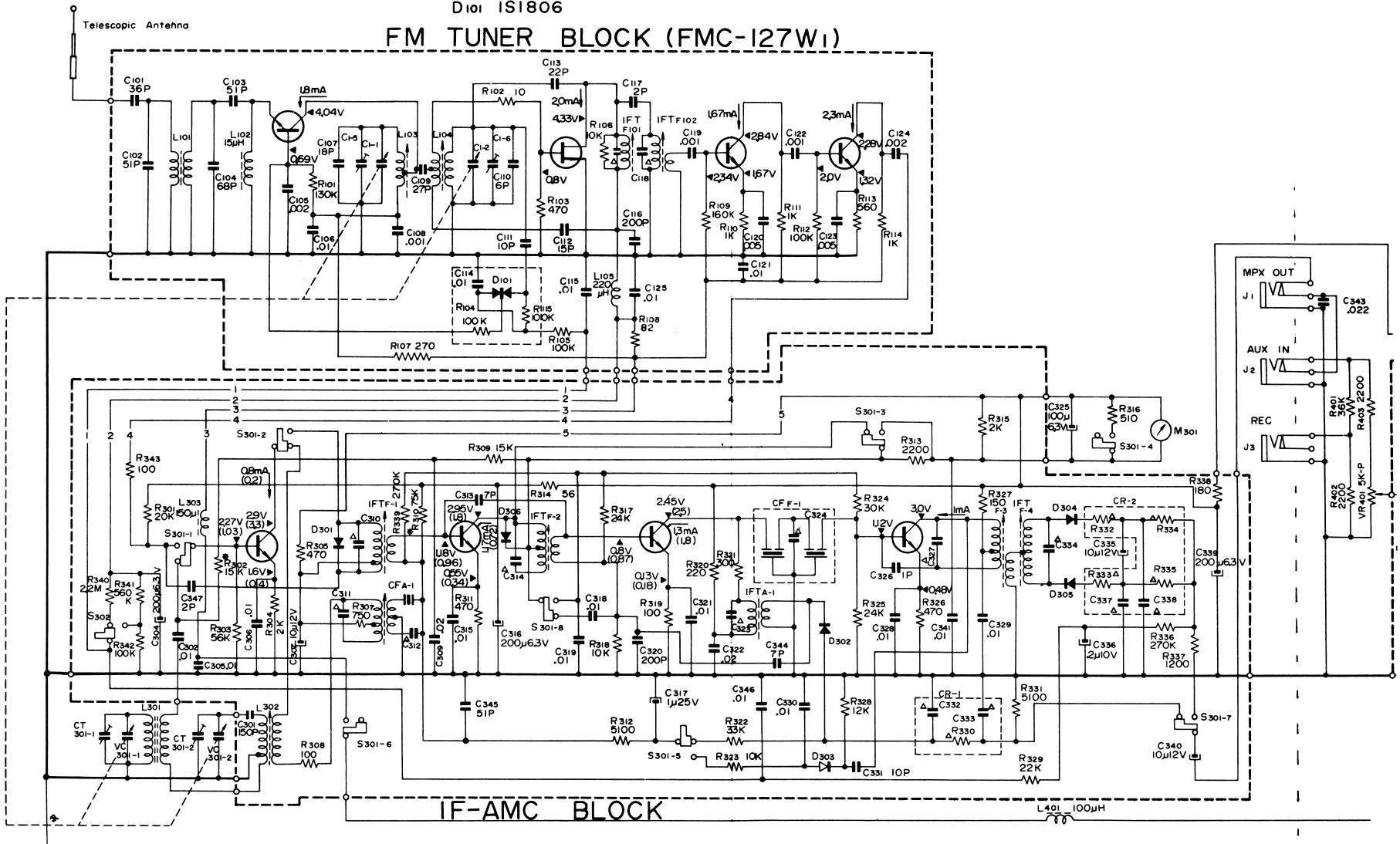
Q102 2SK23

Q103 2SC403A

Q104 2SC403A

D101 1S1806

FM TUNER BLOCK (FMC-127W1)



D301 IT26

D306 IT26

D302 IT23G

D303 IT240

D304,305 IT26

Q301 2SC403A

Q302 2SC403A

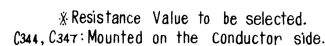
Q303 2SC403A

Q304 2SC403A

— Conductor Side—



— Conductor Side —



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. $\times$: 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)

Adj. Item	S.S.G. (Standard Signal Generator) Coupling	S.S.G. Freq.	Receiver Dial Setting	Connect V.T.V.M.	Adjust	Remarks
FM Freq. Coverage	$\times$ Dummy Antenna $\begin{array}{c} \text{SSG} \text{---} \text{R} \text{---} \text{REC} \\ \text{R} = 100 - R_s(\Omega) \\ \text{where} \\ R_s: \text{Output impedance of SSG.} \end{array}$	86 Mc (400 c/s, ± 22.5 Kc FM)	Fully Downward	To Earphone jack with 8 Ω Load Resistor in parallel.	FM OSC Coil (L ₁₀₄)	Adjust for maximum Meter reading. Volume Control: Max. Tone Control: Speech Power Supply: DC 4.5V AFC: OFF
		109.5 Mc (")	Fully Upward		FM OSC Trimmer (C ₁₋₂)	
FM Tracking	— ditto —	86 Mc (")	Tune to 86 Mc Signal	— ditto —	FM RF Coil (L ₁₀₄)	— ditto —
		109.5 Mc (")	Tune to 109.5 Mc Signal		FM RF Trimmer (C ₁₋₂)	
AM Freq. Coverage	Loop Antenna	520 Kc (1000 c/s, 30% AM)	Fully Downward	— ditto —	AM OSC Coil (L ₁₀₂)	— ditto —
		1,680 Kc (")	Fully Upward		AM OSC Trimmer (C ₁₀₁₋₂)	
AM Tracking	— ditto —	620 Kc (")	Tune to 620 Kc Signal	— ditto —	AM ANT Coil (L ₁₀₁)	— ditto —
		1,400 Kc (")	Tune to 1,400 Kc Signal		AM ANT Trimmer (C ₁₀₁₋₁)	

$\times$ Dummy Antenna

Unsolder the yellow lead at the Telescopic Antenna Terminal.

Connect the SSG to the yellow lead and ground of the receiver through the Dummy Antenna.

