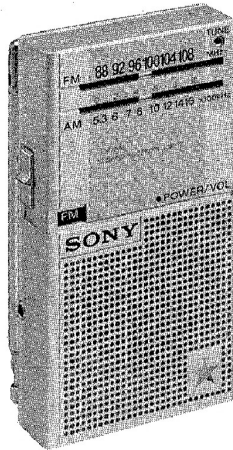
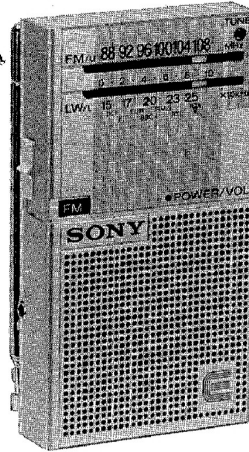


ICF-17/17L

SERVICE MANUAL



ICF-17 (US Model)



ICF-17L

ICF-17:

CM05
US Model

Canadian Model
AEP Model
E Model
Italy Model

ICF-17L:

AEP Model

SPECIFICATIONS

Frequency range	ICF-17 FM: 87.6–107 MHz (for West Germany) 87.5–108 MHz (for Italy) 87.6–108 MHz (for other countries) AM: 526.5–1,606.5 kHz (570–187 m) (for Italy) 530–1,605 kHz (566–187 m) (for other countries)
Antennas	ICF-17L FM: 87.6–108 MHz LW: 150–255 kHz (2,000–1,176 m) FM: Telescopic antenna AM/LW: Built-in ferrite bar antenna
Speaker	Approx. 5.7 cm (2¼ inches) dia.
Power output	100 mW (at 10% harmonic distortion)
Output	Earphone jack (minijack)
Power requirement	3 V dc, two IEC designation R6 (size AA) batteries
Battery life	Approx. 30 hours with Sony SUM-3 (NS) New Super batteries
Dimensions	Approx. 70 x 128 x 29 mm (w/h/d) (2 ⁷ / ₈ x 5 ¹ / ₈ x 1 ³ / ₁₆ inches), not incl. projecting parts and controls with the carrying handle pushed in
Weight	Approx. 230 g (8 oz), incl. batteries

FM/AM 2 BAND RECEIVER
FM/LW 2 BAND RECEIVER

SONY®

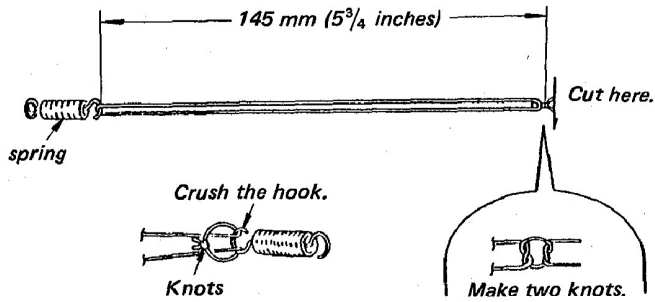
TR



SECTION 1 DISASSEMBLY

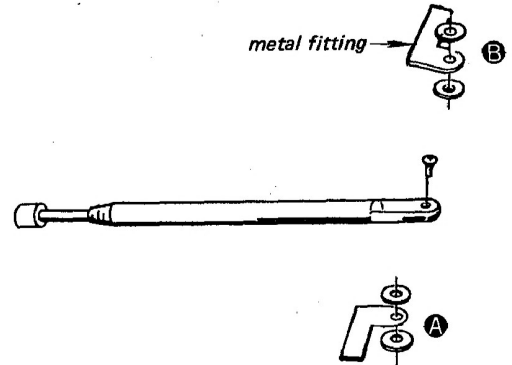
1 DIAL CORD STRINGING

1) Dial Cord Preparation



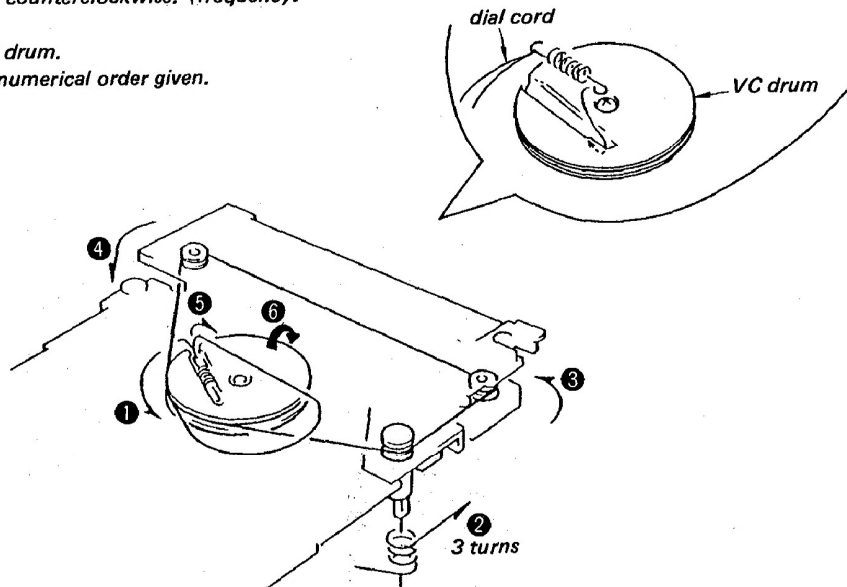
Note on changing telescopic antenna

Metal fittings of telescopic antenna supplied is installed in the direction of **A**. Set telescopic antenna after installing metal fittings in the direction of **B**.



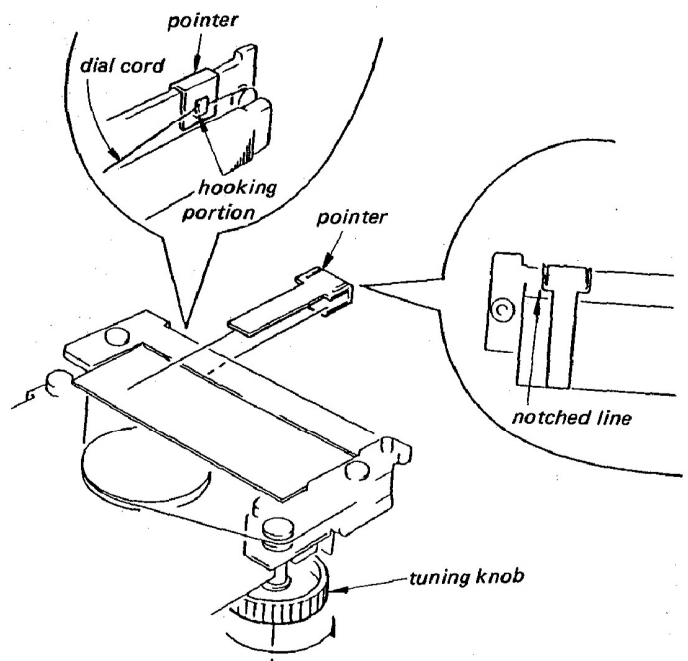
2) Dial Cord Stringing

1. Turn the VC drum fully counterclockwise. (frequency: lowest)
2. Hook the spring to the VC drum.
3. String the dial cord in the numerical order given.



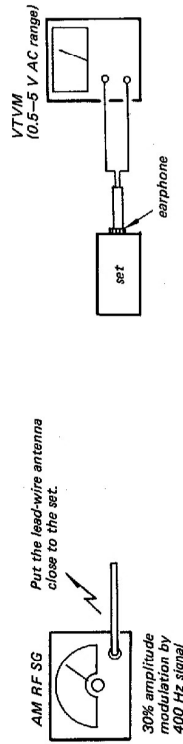
3) Pointer Installation

1. Turn the tuning knob fully counterclockwise.
2. Hook the dial cord to the pointer.
3. Set the pointer to the notched line and crush the hooking portion of the pointer.



SECTION 2
ADJUSTMENT

2-1. AM SECTION
LW SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

ICF-17

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
Italy model	1,400 kHz
Other countries	620 kHz
Adjustment Part	CT3 L4

ICF-17L

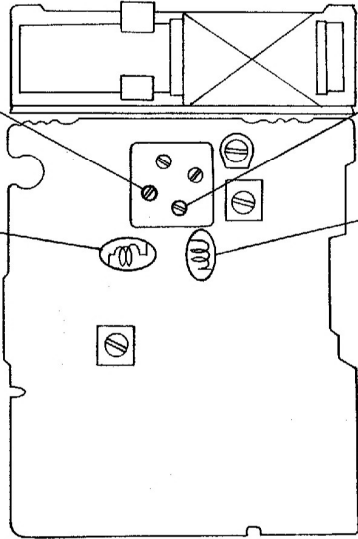
LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
Italy model	240 kHz
Other countries	160 kHz
Adjustment Part	CT3 L4

Adjustment Part	CT4
Italy model	455 kHz
Other countries	1,605.5 ⁺⁰ ₋₂₀ kHz
Adjust for a maximum reading on VTVM.	
IF ALIGNMENT	

Adjustment Part	L5
Italy model	526.5 ⁺⁰ ₋₂₀ kHz
Other countries	520 kHz
Adjust for a maximum reading on VTVM.	
AM FREQUENCY COVERAGE ADJUSTMENT	

ICF-17

ICF-17L



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
G-AEP model	87.35 ± 0.1 MHz
Italy model	87.5 ⁺⁰ _{-0.3} MHz
Other countries	86.5 MHz
Adjustment Part	L2 CT1

Adjustment Part	L3	CT2
G-AEP model	87.35 ± 0.1 MHz	107.8 ± 0.5 MHz
Italy model	87.5 ⁺⁰ _{-0.3} MHz	108 ^{+0.5} ₋₀ MHz
Other countries	86.5 MHz	109.5 MHz
Adjust for a maximum reading on VTVM.		
FM FREQUENCY COVERAGE ADJUSTMENT		

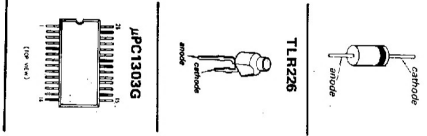
2-2. FM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

SECTION 3
DIAGRAMS

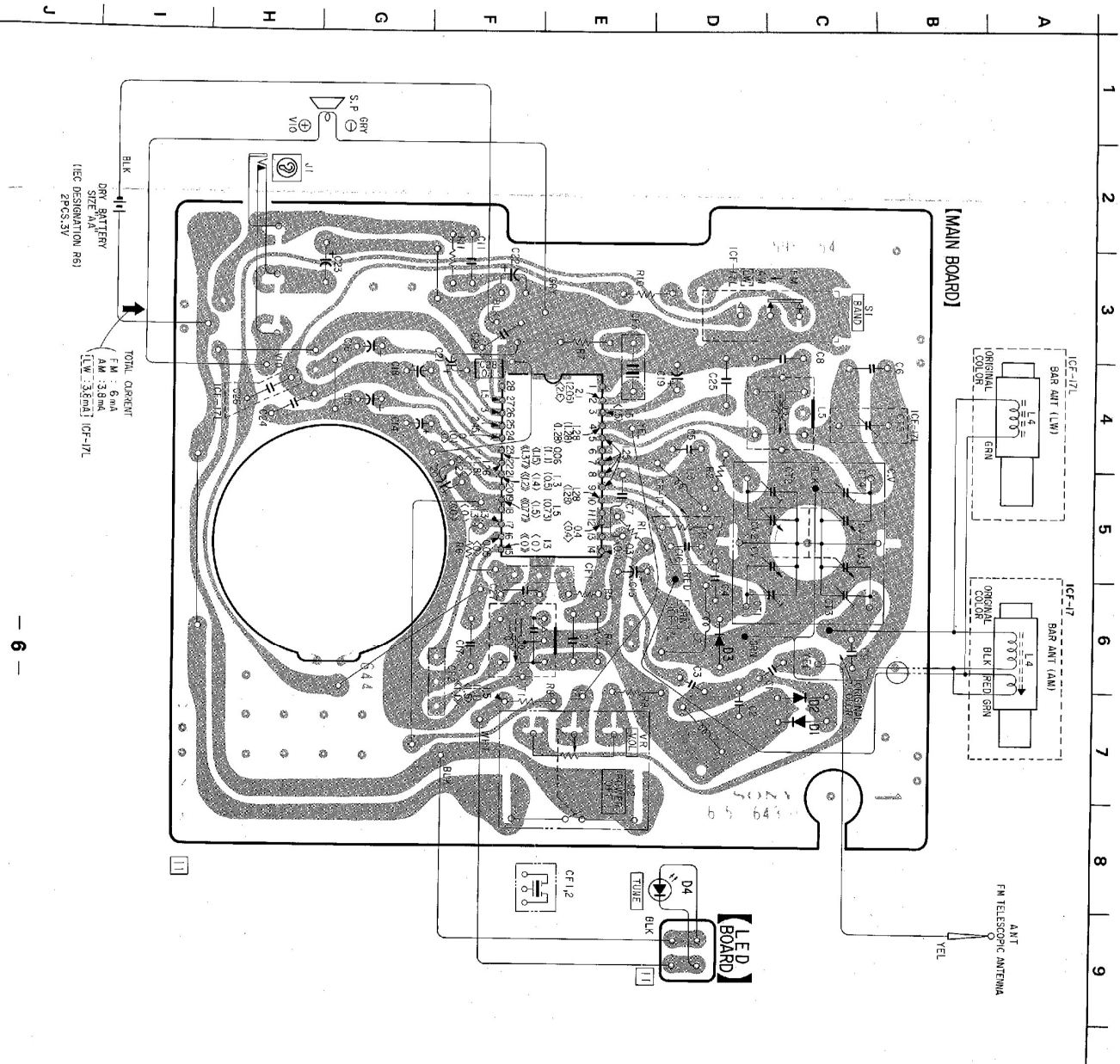
• Semiconductor Lead Layouts



- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.

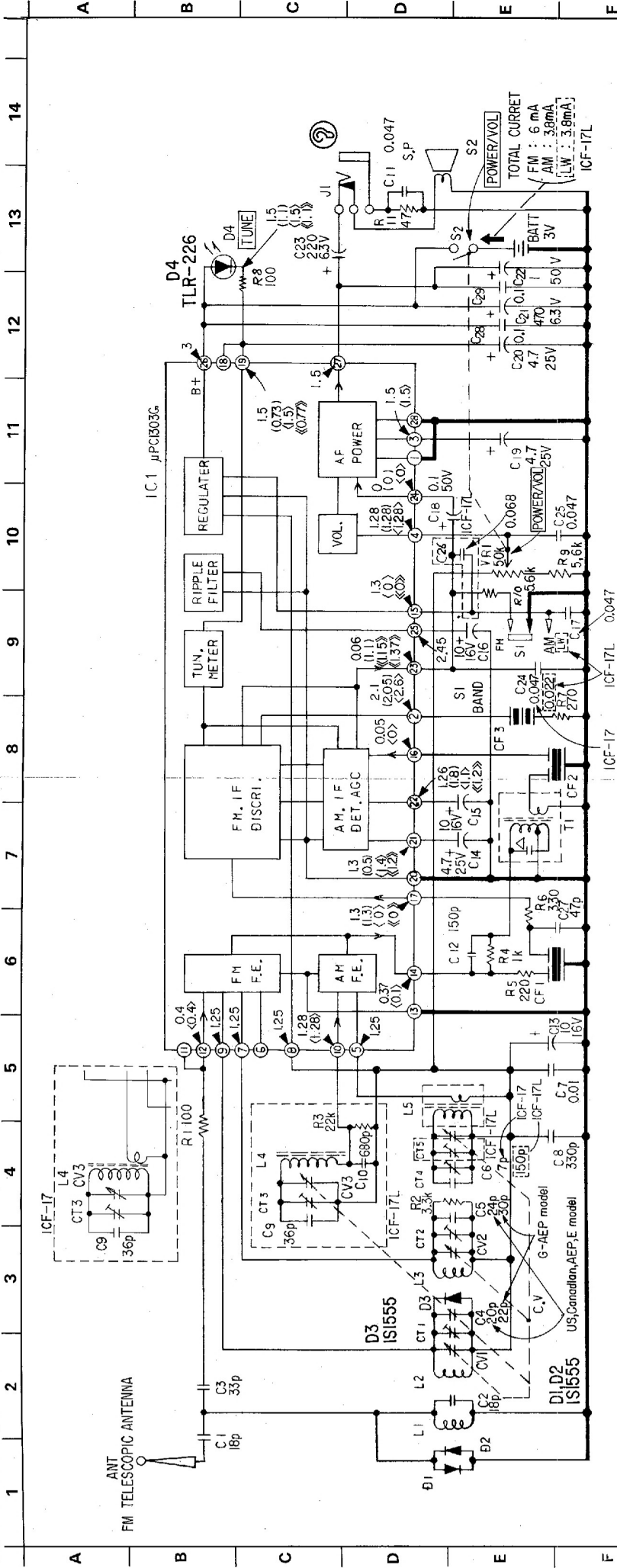
ICF-17/17L ICF-17/17L

3-1. MOUNTING DIAGRAM
— Conductor Side —



ICF-17/17L ICF-17/17L

3-2. SCHEMATIC DIAGRAM



- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/10\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (60k Ω /V).
 () : FM tuned
 << >> : AM tuned
 < > : AM detuned
 no mark : FM detuned
- Voltage variations may be noted due to normal production tolerances.