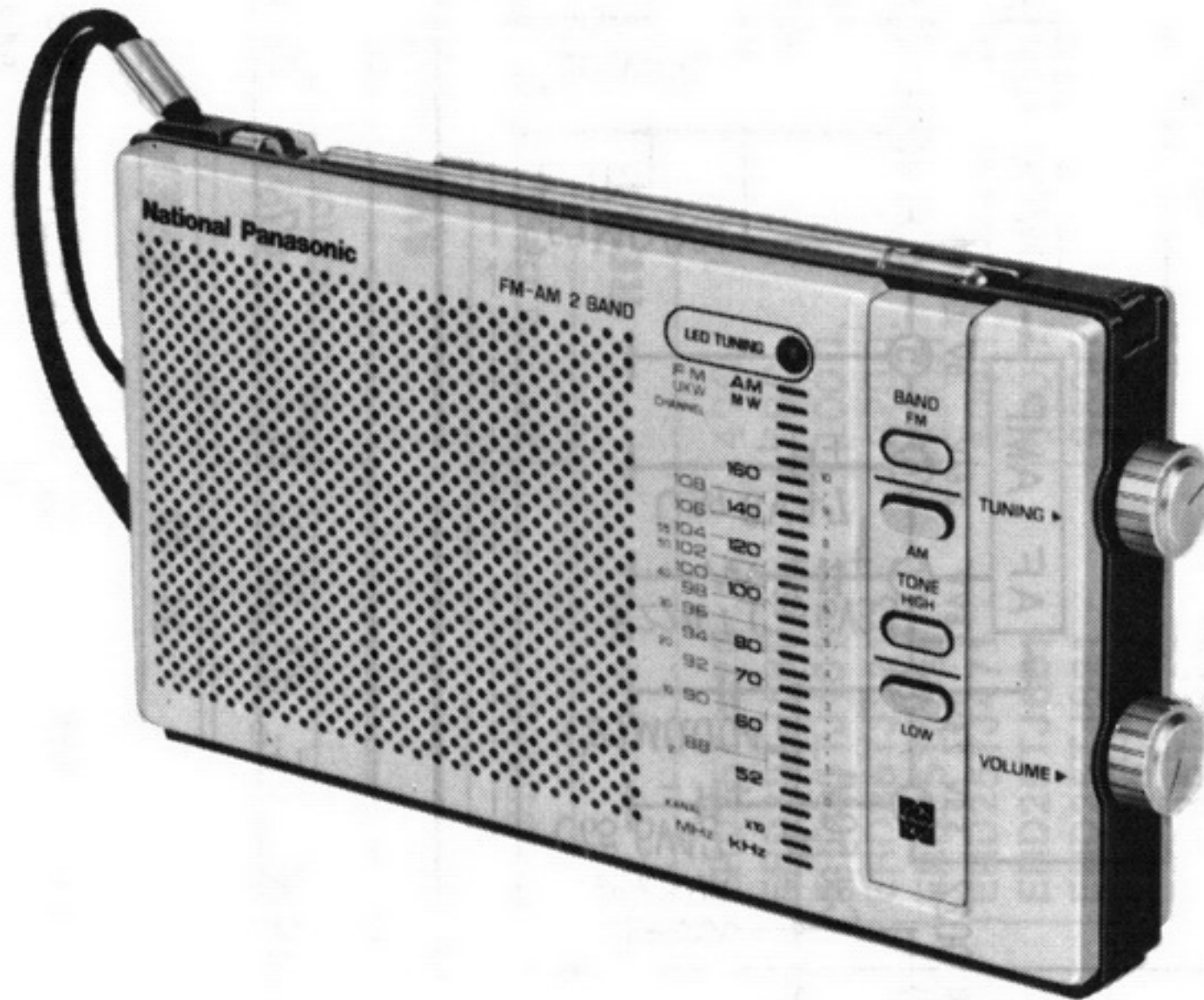


Service Manual

FM-AM
PORTABLE RADIO

Radio
RF-038



■ SPECIFICATIONS

Frequency Range:	FM 87.5~108 MHz MW 520~1610 kHz (577~186m)
Intermediate Frequency:	FM 10.7 MHz AM 455 kHz
Sensitivity:	FM 3 μ V for 50mW Output MW 100 μ V/m for 50mW Output
Power Output:	500mW Maximum
Batteries:	6V (Four "AA" Size Penlight Batteries) (National UM-3 or equivalent)
Speaker:	6.5 cm (2 $\frac{1}{2}$ ") PM Dynamic Speaker
Dimensions:	165 (Wide) x 96 (High) x 27 (Deep) mm (6 $\frac{1}{2}$ " x 3 $\frac{3}{8}$ " x 1 $\frac{3}{32}$ ")
Weight:	302 g. (10 $\frac{1}{2}$ oz.) without batteries
Impedance:	Speaker6 Ω Earphone Jack8 Ω

Specifications are subject to change without notice for further improvement.

■ TO REMOVE PC BOARD

- ① Turn the tuning knob fully clockwise.
- ② Remove the two(2) knobs.
- ③ Remove the two(2) screws.

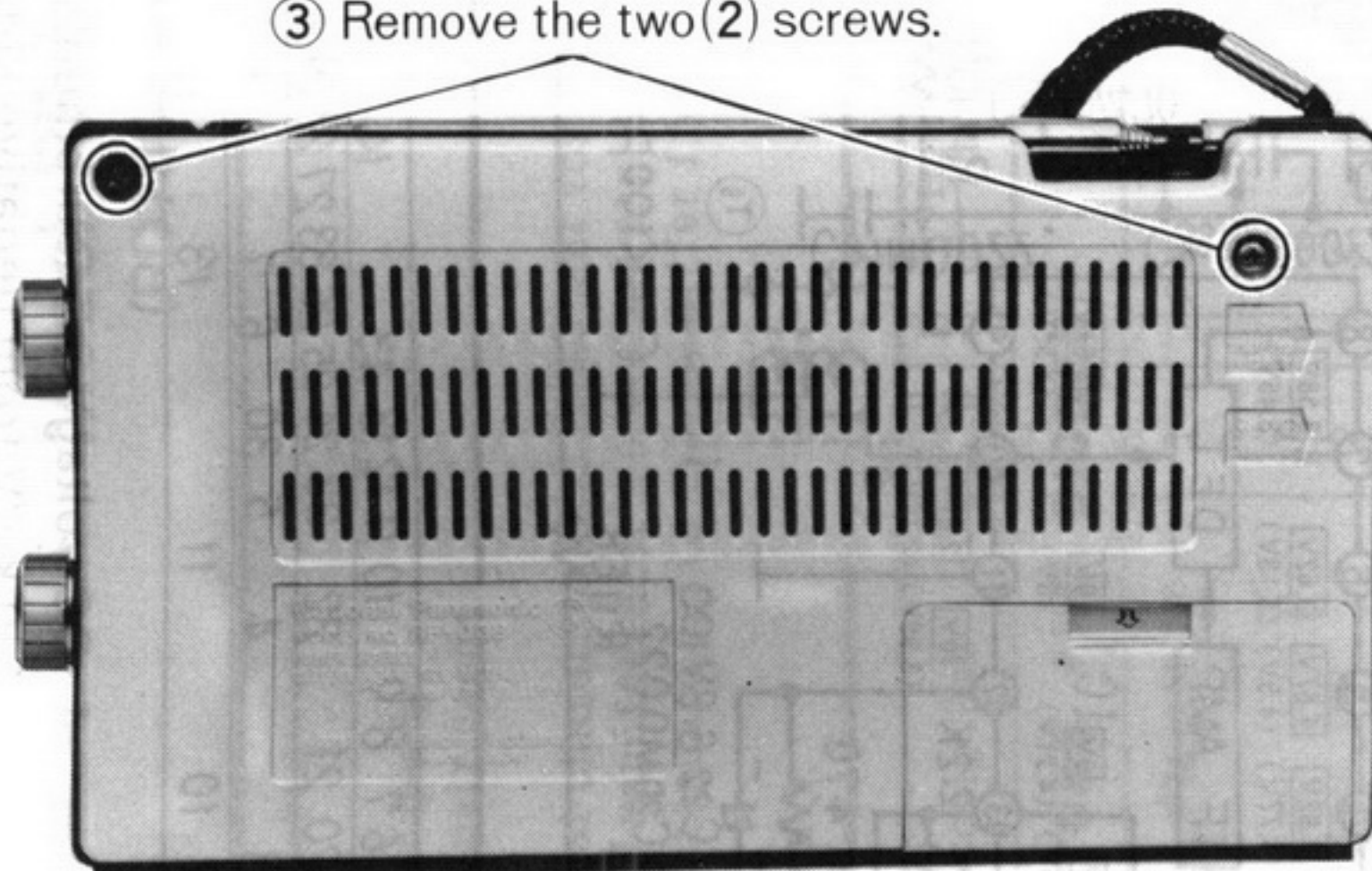
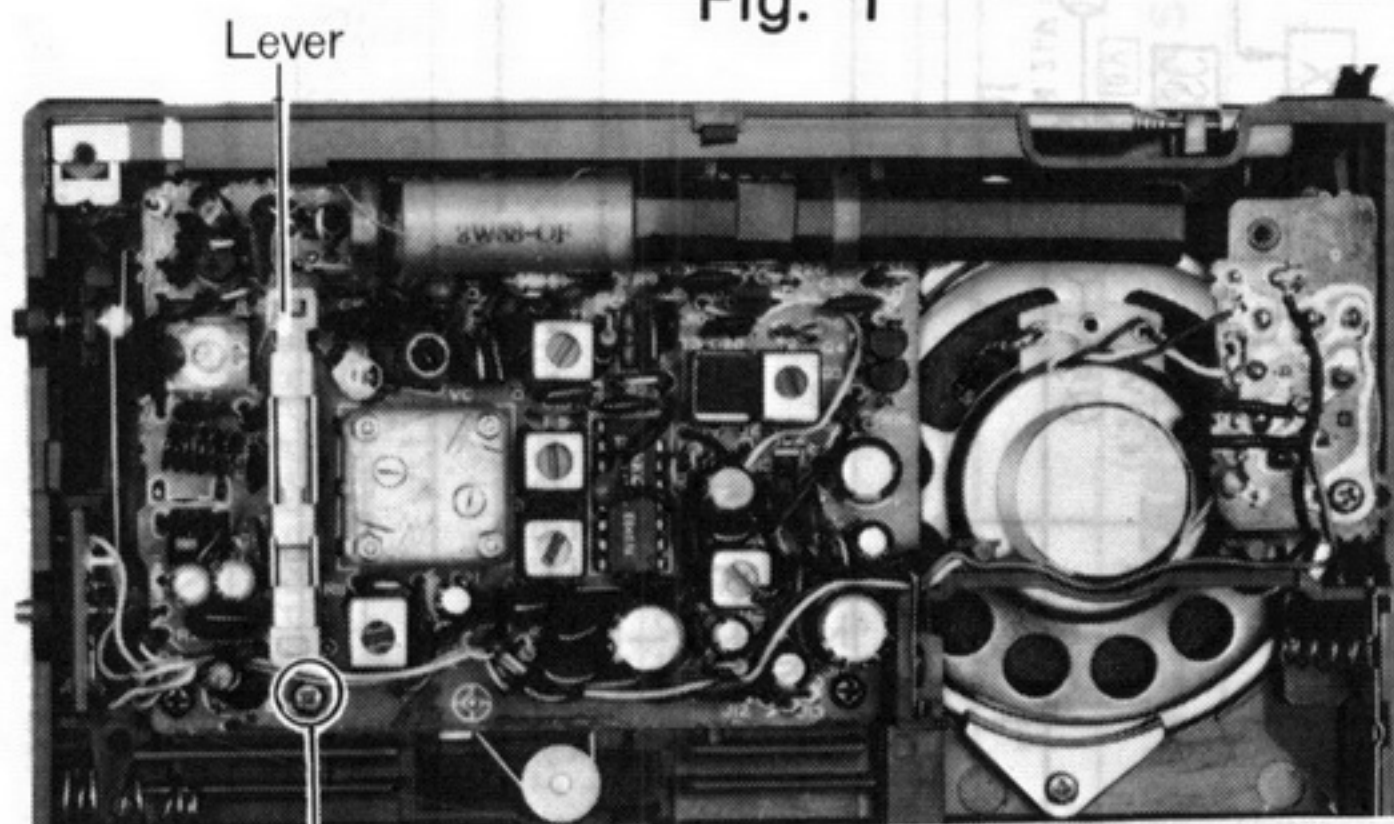
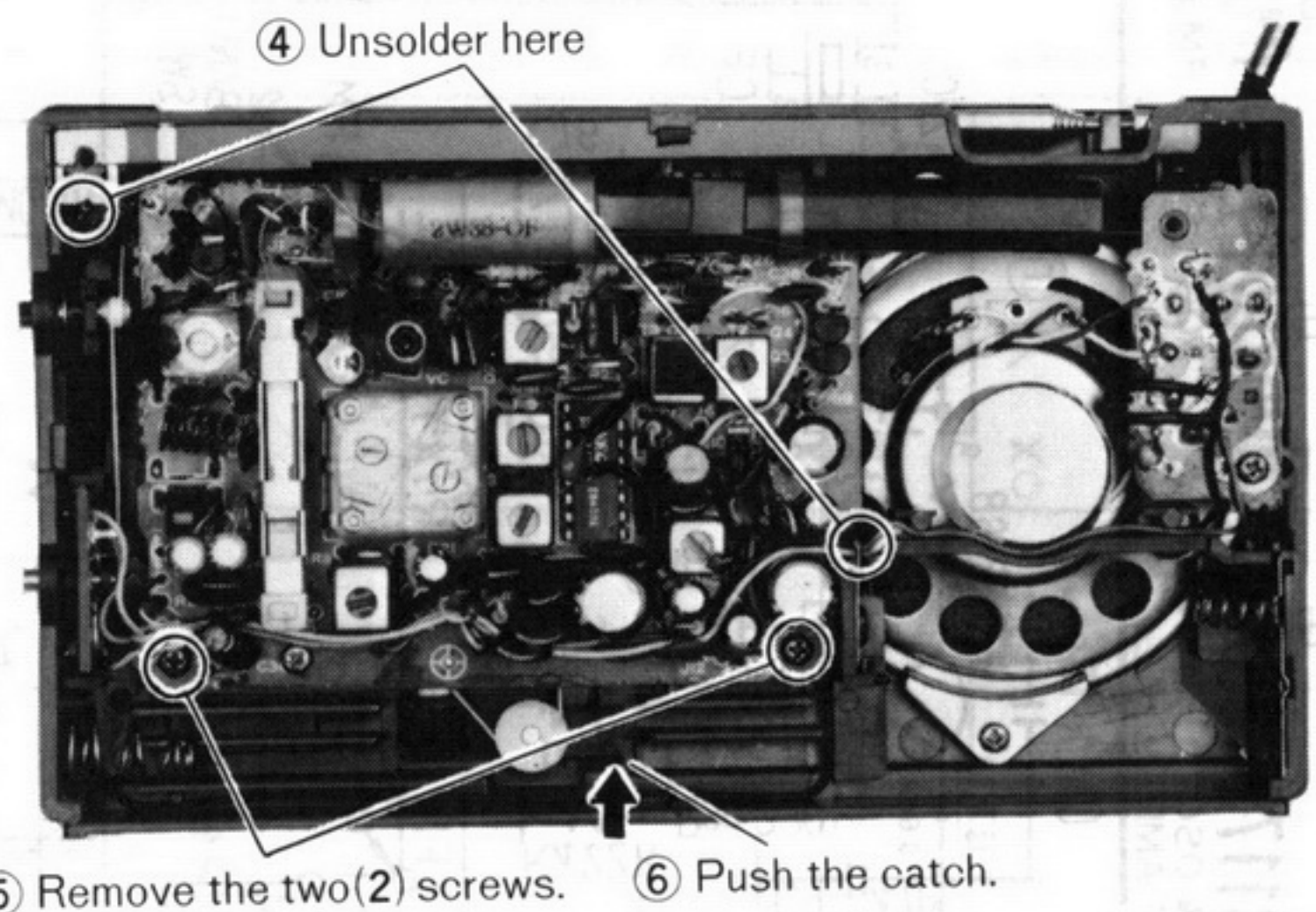


Fig. 1



- ⑦ Remove the one(1) screw.
- ⑧ To reassemble, reverse the above procedure and note the followings.
 1. Turn dial drum and tuning capacitor shaft fully counter-clockwise.
 2. Insert the lever into the hole of band switch.

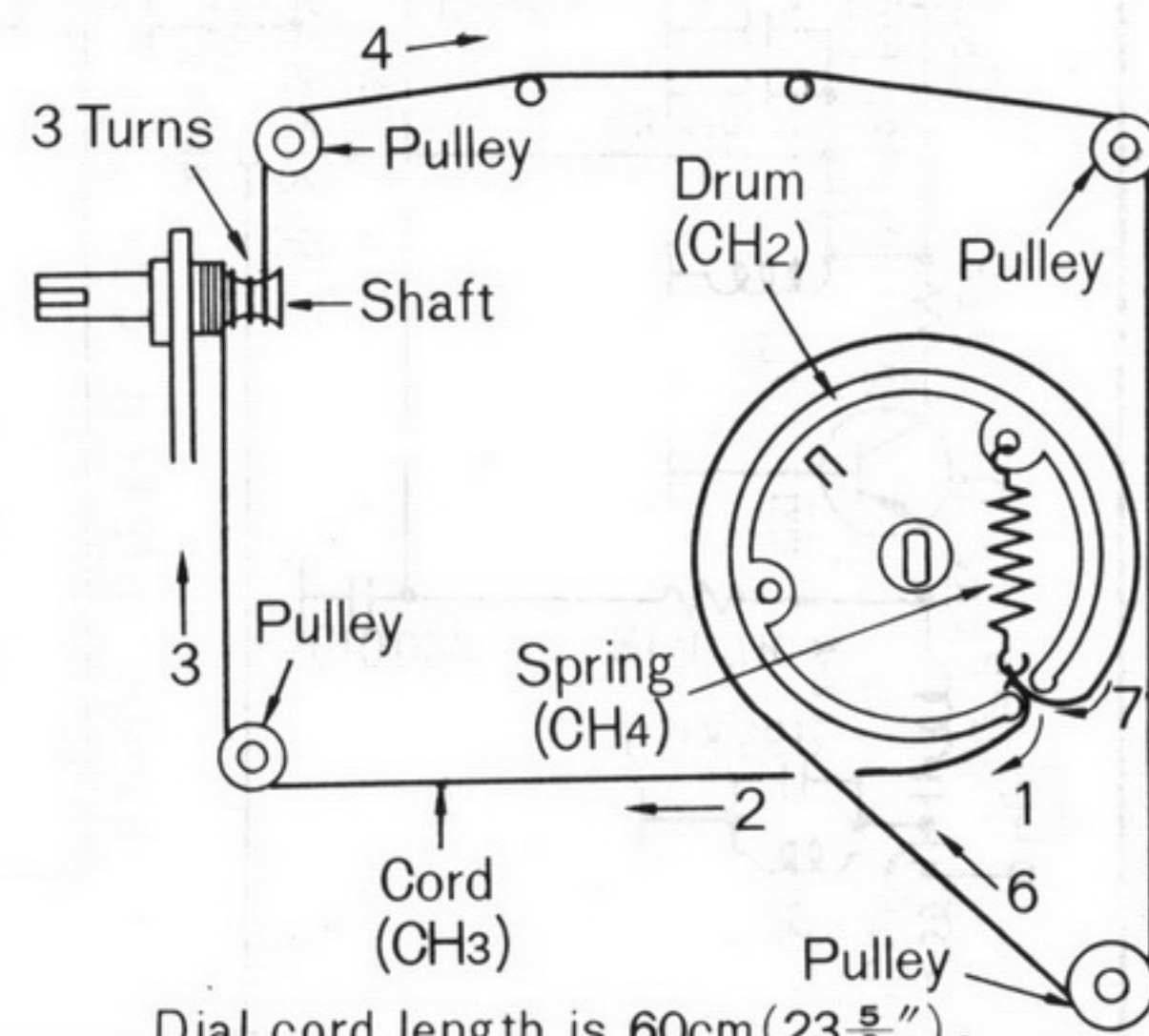
Fig. 3



- ④ Unsolder here
- ⑤ Remove the two(2) screws.
- ⑥ Push the catch.

Fig. 2

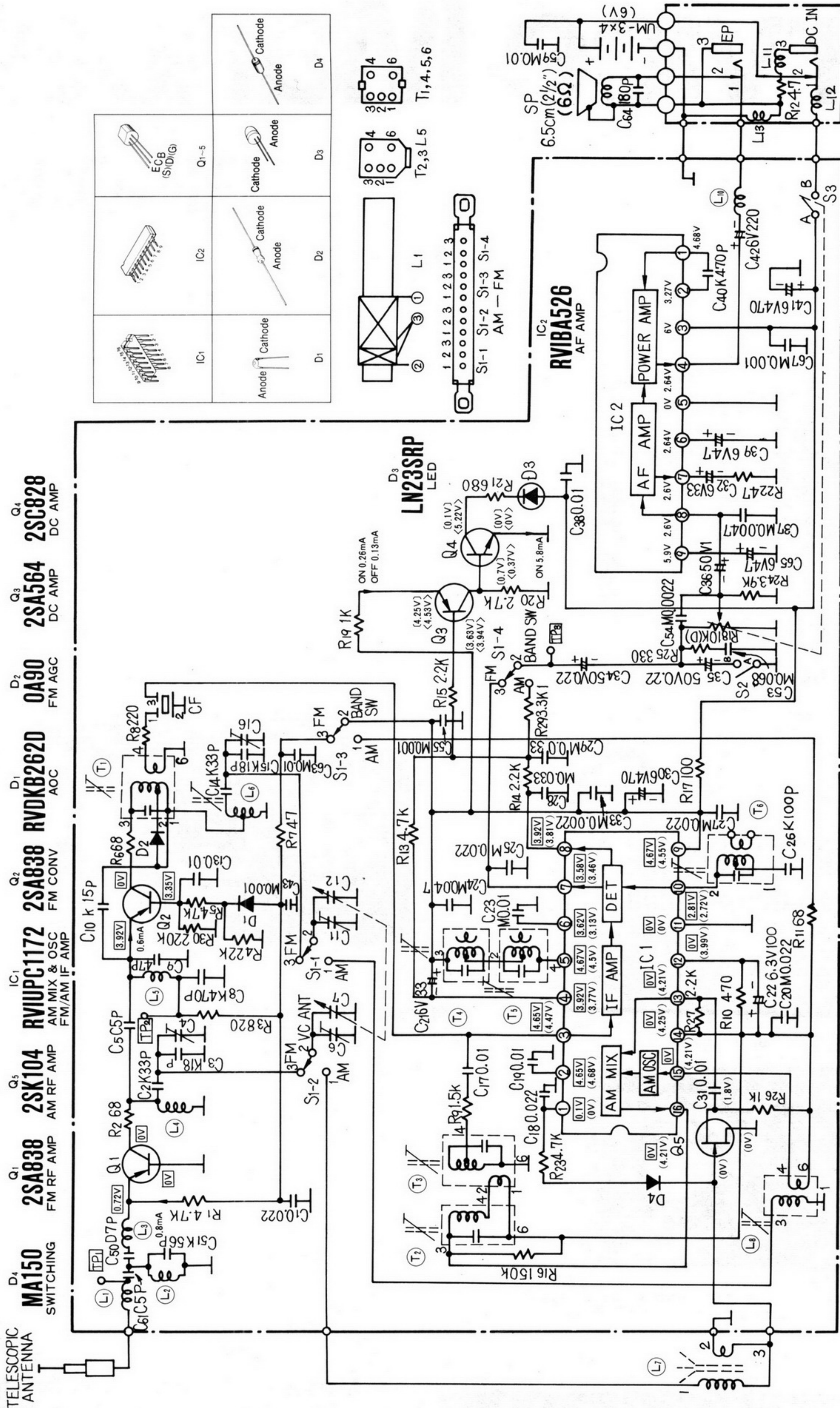
■ DIAL CORD INSTALLATION



Dial cord length is 60cm (23 $\frac{5}{8}$ ").

Fig. 4

Schematic Diagram - Model RF-038



C	61	1	50	51	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100			

- Notes:**
- S1-1~S1-4: Band switch in "FM" position.
 - S2: Tone switch in "HIGH" position.
 - S3: Power switch in "OFF" position.
 - DC voltage measurements are taken with circuit tester
10 kΩ/V from negative side of battery.
 - Battery current. No signal30 mA
Maximum Output135 mA