SERVICE MANUAL

PORTABLE RADIO

SANYO

RP8700

(U.S.A)

SPECIFICATIONS

FREQUENCY RANGES	
AM	530 – 1605 KHz
MB	1.6 – 4.0 MHz
SW1	5.95 – 6.25 MHz
SW2	7.1 – 18.0 MHz
FM	88 – 108 MHz
CB	26.965 – 27.505 MHz
INTERMEDIATE FREQUENCY	
AM	455 KHz
FM	10.7 MHz
SEMICONDUCTORS	
IC	2
TRANSISTORS	11
DIODES	10
RECTIFIERS	2

SENSITIVITY (for 50 mW output)	
AM	31 μV/m
MB	31 μV/m
SW1	6 μV
SW2	6 μV
FM	6 μV (S/N=30dB)
CB	13 μV
POWER OUTPUT	
Maximum	2000 mW
Undistorted	1600 mW
POWER SOURCE	
DC	6 V For 1.5 V "D" size x 4
AC	120 V 60 Hz 8 W
CURRENT DRAIN	
No Signal	45 mA
Maximum	560 mA
SPEAKER	12 Cm Permanent Dynamic Speaker 8 ohm
DIMENSIONS	259 mm(W) x 212 mm(H) x 89 mm(D)
WEIGHT (without batteries)	2 Kg (approx.)

ALIGNMENT PROCEDURES

GENERAL ALIGMNENT CONDITIONS

1. The position of volume control is at maximum position.
2. Signal input must be kept as low as possible to avoid overload.
3. Use an output meter of the highest possible sensitivity.
4. Standard modulation is 400 Hz at 30% amplitude (for AM) and 22.5 kHz deviation (for FM).

AM BAND – Band selector switch in AM position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Loop Antenna	455 kHz	Lowest End	Across Speaker	IFT T304, 305	Adjust for Maximum
2	Same	515 kHz	Lowest End	Same	Osc. Coil L113	Same
3	Same	1650 kHz	Highest End	Same	Osc. Trim VCT1-4	Same
4	Same	600 kHz	600 kHz	Same	Ant. Coil L108a	Same
5	Same	1400 kHz	1400 kHz	Same	Ant. Trim VCT1-3	Same

Repeat steps 2 thru 5 to obtain maximum sensitivity.

MB BAND – Band selector switch in MB position.

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Dummy Antenna	1.55 MHz	Lowest End	Across Speaker	Osc. Coil L114	Adjust for Maximum
2	Same	4.3 MHz	Highest End	Same	Osc. Trim CT4	Same
3	Same	1.75 MHz	1.75 MHz	Sme	Ant. Coil L108b	Same
4	Same	4.0 MHz	4.0 MHz	Same	Ant. Trim CT1	Same

Repeat steps 1 thru 4 to obtain maximum sensitivity.

SW1 BAND – Band selector switch in SW1 position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Dummy Antenna	5.9 MHz	Lowest End	Across Speaker	Osc. Coil L116	Adjust for Maximum
2	Same	6.25 MHz	Highest End	Same	Osc. Trim. CT5	Same
3	Same	5.95 MHz	5.95 MHz	Same	Ant. Coil L109	Same
4	Same	6.2 MHz	6.2 MHz	Same	Ant. Trim. CT2	Same

Repeat steps 1 thru 4 to obtain maximum sensitivity.

SW2 BAND – Band selector switch in SW2 position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Dummy Antenna	6.85 MHz	Lowest End	Across Speaker	Osc. Coil L118	Adjust for Maximum
2	Same	18.5 MHz	Highest End	Same	Osc. Trim. CT6	Same
3	Same	7.5 MHz	7.5 MHz	Same	Ant. Coil L110	Same
4	Same	17.5 MHz	17.5 MHz	Same	Ant. Trim. CT3-1	Same

Repeat steps 1 thru 4 to obtain maximum sensitivity.

ALIGNMENT PROCEDURES

CB BAND– Band selector switch in CB position ion

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Dummy Antenna	26.9 MHz	Lowest End	Across Speaker	Osc. Coil L119	Adjust for Maximum
2	Same	27.55 MHz	Highest End	Same	Osc. Trim. CT 7	Same
3	Same	26.965 MHz	26.965MHz (1ch)	Same	Ant. Coil L111	Same
4	Same	27.255 MHz	27.255MHz (23ch)	Same	Ant. Trim. CT 3-2	Same

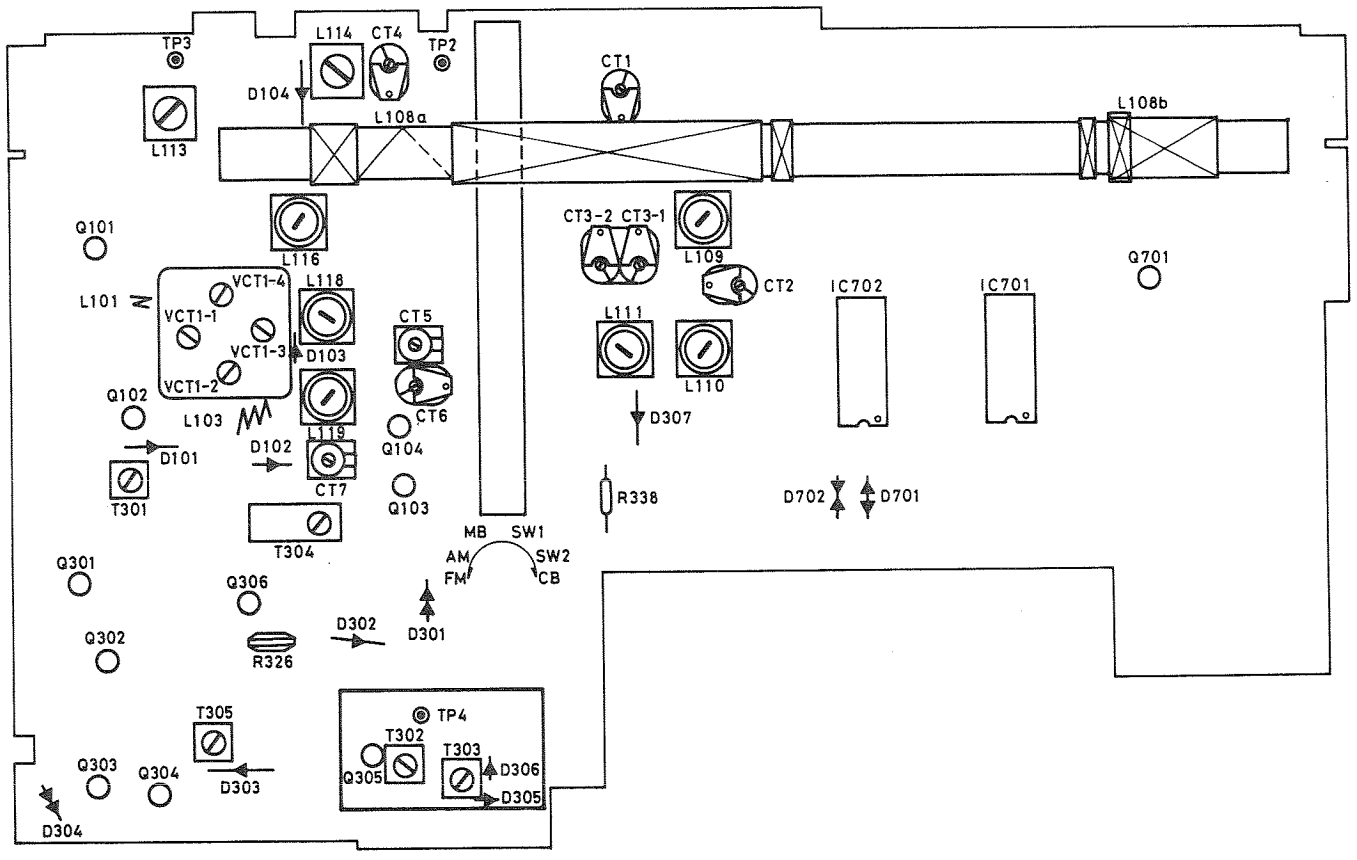
Repeat steps 1 thru 4 to obtain maximum sensitivity.

FM BAND – Band selector switch in FM position

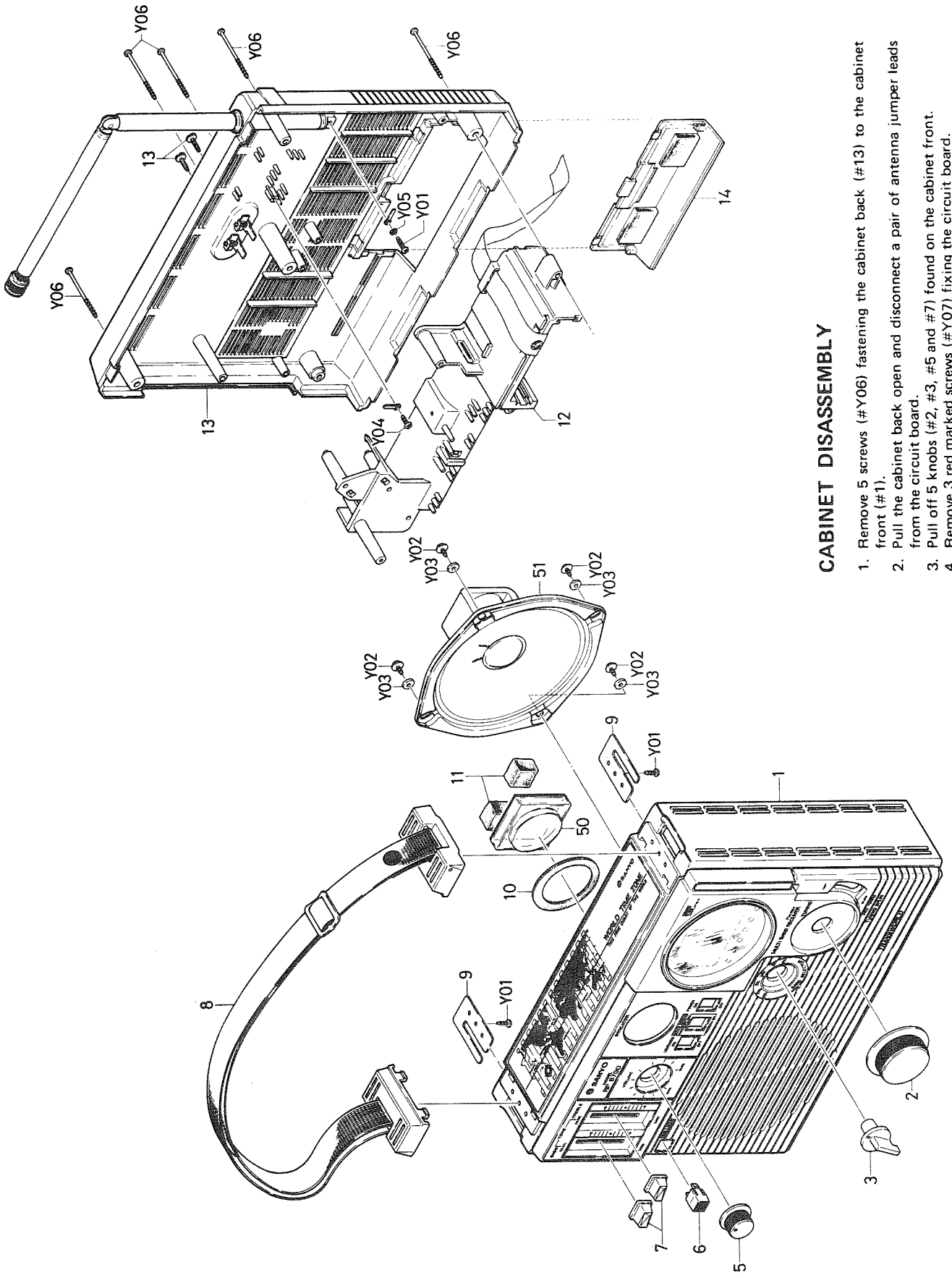
Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Meter or Oscilloscope	Adjust	Remarks
1	Connect Sweep Marker Generator to VCT1 Ground.	10.7 MHz	Lowest End	Connect scope input cable thru network to TP4, Ground	IFT T301, 302,	Adjust for maximum sensitivity with symmetrical curve.
2	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to R338, Ground	IFT T303	Adjust for symmetrical "S" cruve.
3	Connect Signal Generator to VCT1, Ground.	87.0 MHz	Lowest End	Connect V.T.V.M. across speaker	Osc. Coil L103	Adjust for Maximum
4	Same	109.0 MHz	Highest End	Same	Osc. Trimmer VCT1-2	Same
5	Same	90 MHz	90 MHz	Same	RF Coil L101	Same
6	Same	106 MHz	106 MHz	Same	RF Trimmer VCT1-1	Same

Repeat steps 1 thru 6 to obtain maximum sensitivity.

PARTS LOCATION



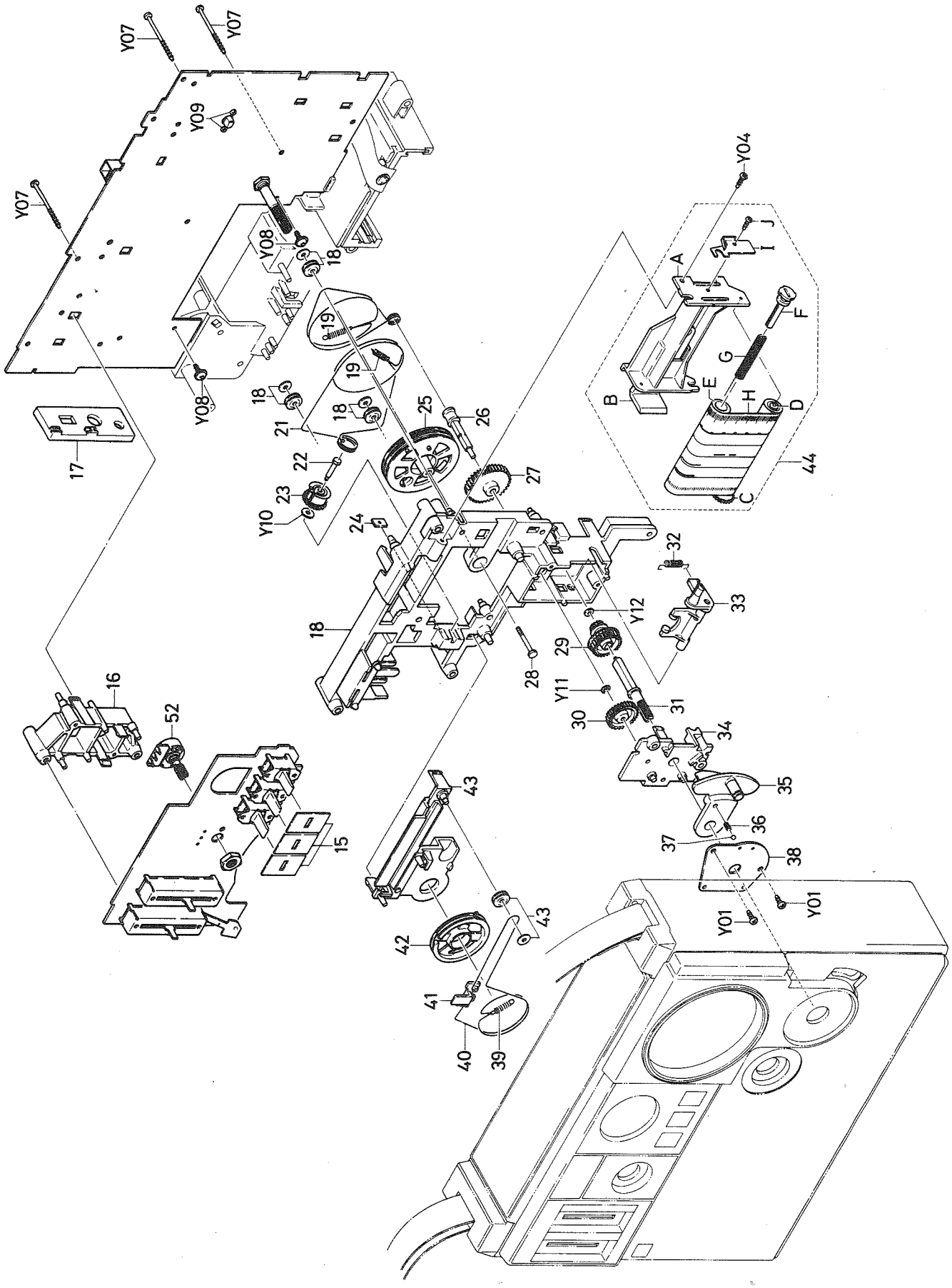
CABINET EXPLODED VIEW



CABINET DISASSEMBLY

1. Remove 5 screws (#Y06) fastening the cabinet back (#13) to the cabinet front (#1).
2. Pull the cabinet back open and disconnect a pair of antenna jumper leads from the circuit board.
3. Pull off 5 knobs (#2, #3, #5 and #7) found on the cabinet front.
4. Remove 3 red marked screws (#Y07) fixing the circuit board.
5. Disconnect a pair of speaker jumper leads from the circuit board.
6. Take out the circuit board.

CHASSIS EXPLODED VIEW



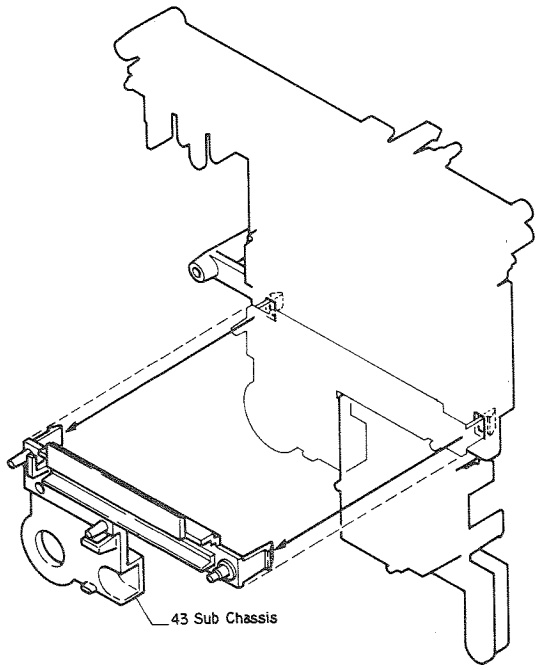


Fig. 1

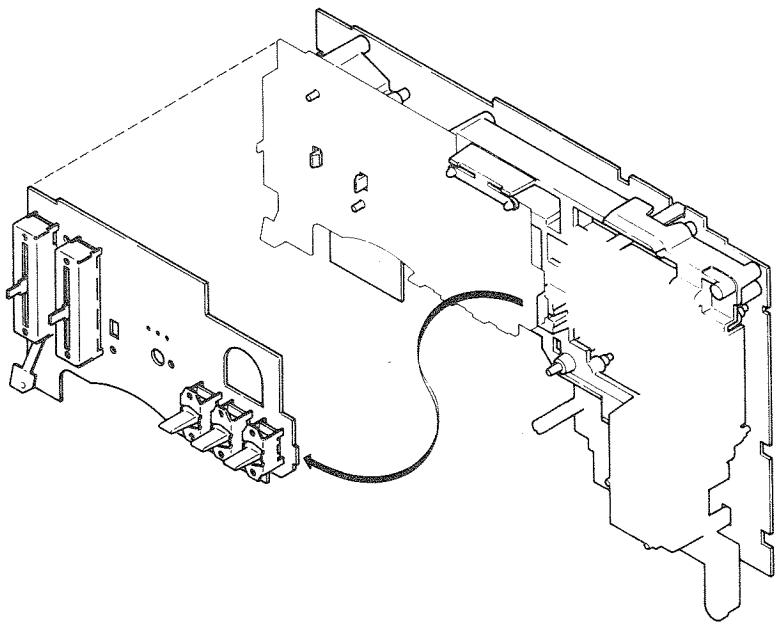


Fig. 2

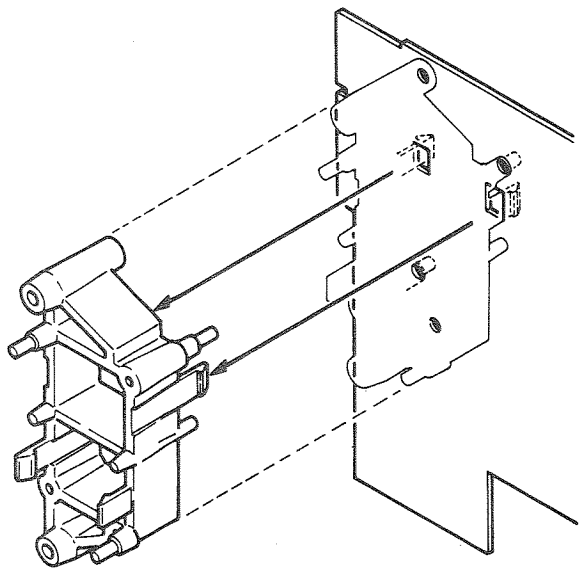


Fig. 3

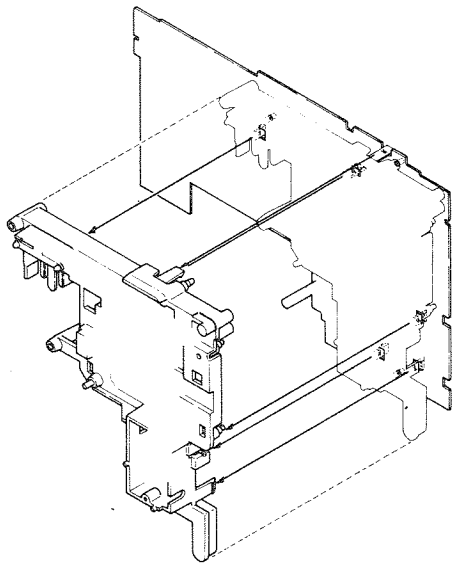


Fig. 4

1. Disengage a righthand catch
   Disassemble the subchassis (#43) with its righthand catch disengaged from the chassis assembly (#18). (Refer to Fig. 1).
2. Disassemble the subchassis (#16)
   Disassemble the small circuit board by disengaging two plastic catches of the subchassis (#16) from it. (Refer to Fig. 2).
3. Disassemble the dial mechanism (#44) with a screw (#Y04) removed from its section A.
4. Disassemble the chassis (#18) with its six catches disengaged from the circuit board, after removing a hex. head screw (#28). (Refer to Fig. 4)

Ref. No.	Part No.	Description	Q'ty
PACKING			
	141-6-141T-08304	Individual Carton	1
	141-6-144T-26000	Pad, Left Side	1
	141-6-144T-28400	Pad, Right Side	1
	141-6-411T-77101	Instruction Book	1
	141-6-231T-04201	Polyethylene Bag, Set	1
	123-6-493R-10500	Customer Card	1
		Polyethylene Bag, 100x200mm, Cord	
		Sheet, 100x150mm	1
CABINET			
1	141-0-111T-255914	Cabinet Assembly	1
2	141-0-163T-09400	Rotary Knob Assembly, TUNING	1
3	141-2-163T-28200	Rotary Knob, BAND SELECTOR	1
5	141-0-163T-10100	Rotary Knob Assembly, Volume	1
6	141-2-161T-25600	Push Button, Dial Light	1
7	141-0-164T-03000	Slide Knob Assembly, TREBLE/ BASS	2
8	141-0-176T-06091	Shoulder Band Assembly	1
9	141-2-178T-03600	Bracket Band, Holder	2
10		Cushion, 36φx46φx1.5mm, Meter	1
11		Cushion, 10x15x10mm, Meter	2
12	141-0-331T-02891	Holder Battery Assembly	1
13	141-0-126T-160916	Back Lid Assembly	1
14	141-0-128T-03101	Battery Lid Assembly	1
15	141-2-241T-15100	Veil, Snap Switch	3
16	141-2-312T-13400	Sub Chassis	1
17	141-2-143T-66600	Marking Plate, PHONO/RADIO, EARPHONE, HEAD PHONES	1
CHASSIS			
18	141-0-311T-199911	Chassis Assembly	1
19	123-2-481R-11800	Spring Coil, Dial Rope	2
20		Dial Rope, 0.3φx450mm	1
21		Dial Rope, 0.3φx650mm	1
22	141-2-567T-01500	Pulley Shaft, Drum mtg.	1
23	141-2-538T-02700	Drum	1
24	141-2-411T-06300	Plate Nut	1
25	141-2-538T-04000	Drum, Tuning Capacitor	1
26	141-2-566T-03300	Tuning Shaft	1
27	141-2-581T-03200	Gear, 27φ	1
28	141-2-425T-00300	Hexagon Hd. Screw, 2.6x20mm	1
29	141-2-581T-03300	Gear, 20φ	1
30	141-2-581T-03100	Gear, 18φ	1
31	141-2-566T-03400	Tuning Shaft	1
32	141-2-851T-89000	Spring Coil	1
33	141-2-741T-80500	Lever	1
34	141-2-210T-00700	Bracket	1
35	141-0-162T-02700	Lever Knob Assembly, Tuning Speed	1
36	123-2-481R-13800	Spring Coil	1
37		Steel Ball, 1/8 inch	1
38	141-2-747T-11400	Bracket, Lever	1
39	123-2-481R-10600	Spring Coil, Band Selector	1
40		Dial Rope, 0.3φx500mm	1
41	141-0-511T-06291	Pointer Assembly	1
42	141-2-538T-04100	Drum, Band Selector	1
43	141-0-312T-13591	Sub Chassis, Band Selector	1

Ref. No.	Part No.	Description	Q'ty
CHASSIS			
44	141-0-210T-006914	Bracket Assembly, Dial Mechanism	1
A	141-2-210T-00600	Bracket	(1)
B	141-2-329T-03600	Refractor	(1)
C	141-2-581T-02900	Gear	(1)
D	123-2-210R-20100	Bracket	(1)
E	141-2-538T-03300	Drum	(1)
F	141-2-581T-02300	Gear	(1)
G	141-2-851T-86700	Spring Coil	(1)
H	141-2-146T-06104	Dial Scale	(1)
I	141-2-853T-37100	Spring Plate	(1)
J		Tapping Screw, Pan Hd., 2.3x4mm	(1)
		Rubber Cushion, 3.5φx6φx3.5mm, Dial Light	1
		Rubber Cushion, 6x6x9mm, Holder Battery mtg.	1
		Rubber Cushion, 7x7x1mm, P.C.B. mtg.	1

Schematic Location	Part No.	Description	Q'ty
SEMICONDUCTORS			
Q101,301, 302,303		Transistor, 2SC930E	4
Q102,304, 305		Transistor, 2SC930D	3
Q103,104		Transistor, 2SC929D	2
Q306,701		Transistor, 2SC536G	2
IC701,702		Integrated Circuit, LA4100K	2
D101,302		Diode, DS442	2
D102		Diode, 1S553	1
D103		Diode, 1S2473	1
D301		Diode, MV-11T	1
D104 303		Diode, 1S188AM	2
D304		Diode, MA26W	1
D305,306		Diode, 1S188FM	2
D307		Diode, YZ047	1
D701		Diode, DS132	1
D702		Diode, DS131	1
COILS & TRANSFORMERS			
L101	4-265R-12800	VHF Coil, 3½	1
L102	4-265R-05000	VHF Coil, 6½	1
L103	4-265R-12500	VHF Coil, 3½	1
L104,106, 107,112	4-253R-11100	Choke Coil, 1μH	4
L105	4-255R-10700	Choke Coil, 15μH	1
L108	4-257T-20501	Antenna Coil Assembly, MW/MB	1
L109	4-257T-16030	Antenna Coil, SW1	1
L110	4-257R-26930	Antenna Coil, SW2	1
L111	4-257T-14530	Antenna Coil, CB	1
L113	4-258T-08900	Oscillator Coil, MW	1
L114	4-258R-15130	Oscillator Coil, MB	1
L116	4-258T-14540	Oscillator Coil, SW1	1
L117	4-265R-00300	VHF Coil, 3½ SW1	1
L118	4-258T-15230	Oscillator Coil, SW2	1
L119	4-258T-12630	Oscillator Coil, CB	1
L120	4-265R-01300	VHF Coil, 3½ CB	1
T301	4-256R-20830	IF Transformer, FM	1
T302	4-256R-15130	IF Transformer, FM	1
T303	4-256R-02330	IF Transformer, FM	1
T304	4-256T-07800	IF Transformer with Filter, AM	1
T305	4-256R-00230	IF Transformer, AM	1
T701	4-251T-51900	Power Transformer	1

Schematic Location	Part No.	Description	Q'ty
MISCELLANEOUS			
CF301,302	4-256T-80400 / 4-256T-80471 / 4-256T-80472 / 4-256T-80473 / 4-256T-80474	IF Filter, FM (a pair)	2
	4-151T-19700	Speaker, 120mm, 8 ohm	1
	4-612R-05501	Lamp 6V 30mA	1
	4-511T-06800	Indicator Meter	1
B101,102	123-2-471R-10400	Bead Core	3
103			1
	4-244T-01200	Telescopic Rod Antenna	1
	4-235T-30700	Socket, Power	1
	141-2-135T-35971	Back Cover, Power Socket	1
S1	4-231T-52600	Slide Switch, Band Select	1
S2,3	4-231T-52471	Slide Switch, AFC/LOUDNESS	2
S5	4-231T-52400	Slide Switch, POWER	1
	4-235T-29900	Socket, EXT.SP	1
	141-2-322T-18900	Shield Plate, Parts Side	1
	141-2-322T-18100	Shield Plate, Pattern Side	1
	141-2-853T-40700	Spring Plate, Dial Light Switch	1
	141-2-336T-04600	Terminal, Dial Light Switch	1
TP1,2,3, 5,6	123-2-474R-00200	Tip Plug	5
TP4	4-237T-00100	Terminal	7
	123-2-472R-00400	Lug, Power Transformer mtg.	2
	141-2-464T-08700	Fixer, Lead mtg.	2
	141-2-336T-10800	Terminal Battery (–), Spring Coil	1
	141-2-336T-04904	Terminal Battery, (+)	2
	141-2-336T-09400	Terminal Battery, (–), Spring Plate	1
	141-2-322T-33600	Shield Plate, T305	1
	141-2-322T-29300	Shield Plate, IC	1
	141-2-382T-03071	Terminal, Pilot Lamp Lead	3
	141-2-322T-20900	Shield Plate, T303	1
	4-243T-12971	Lead, Speaker, 150mm, Blue/ Orange	2
	4-243T-12972	Lead, EXT. ANT., 200mm, Yellow	1
	4-243T-12973	Lead, EXT. ANT., 250mm, Orange	1
	4-243T-12974	Lead, Rod ANT., 300mm, Blue	1
	4-243T-74500	Power Cord Assembly	1
	4-253T-08700	Filter, FM Antenna	1
	4-230T-04691	P.C.B., Assembly, Main	1
	4-226T-829914	P.C.B., Assembly, Sub	1
	141-2-382T-02000	Terminal, Power	1
MOUNTING PARTS			
Y01		Tapping Screw, Pan Hd., 3x12mm	5
Y02		Tapping Screw, Pan Hd. with Washer, 3x8mm	4
Y03		Washer, 3x10x1mm	4
Y04		Tapping Screw, Pan Hd., 3x8mm	3
Y05		Spring Washer, 3mm	1
Y06		Tapping Screw, Pan Hd., 3x40mm	5
Y07		Tapping Screw, Pan Hd., 3x35mm	3
Y08		Tapping Screw, Pan Hd. with Washer, 3x10mm	2
Y09		Screw, Pan Hd., 2.6x4mm	2
Y10		Washer, 2.1x9x0.5mm	1
Y11		"E" Ring, 3mm	1
Y12		Graphite Nylon Washer, 2.1x6x0.5mm	1
Y13		Screw, Pan Hd. with Washer, 3x8mm	1
Y14		Nut, 3mm	1
Y15		Washer, 3x8x0.5mm	1
Y16		External Tooth Lock Washer, 3mm	1
Y17		Tapping Screw, Pan Hd., 3x20mm	1

Schematic Location	Part No.	Description	Q'ty
RESISTORS			
All Resistors are Carbon P-type, ±10% and ¼W unless otherwise noted.			
R122,723		10 ohm	2
R112,124		33 ohm	2
R123,715, 717		47 ohm	3
R107		56 ohm	1
R120,727		68 ohm	2
R121,304		100 ohm	2
R306		120 ohm	1
R104,331		150 ohm	2
R301,721		220 ohm	2
R332		270 ohm	1
R307,310		330 ohm	2
R315,322, 330		390 ohm	3
R102,115, 308,305, 303,711		470 ohm	6
R339,716		560 ohm	2
R105		680 ohm	1
R113,311, 313,316, 328,333, 334,704, 724,725		1K ohm	10
R314		1.8K	1
R110,324, 335,341, 702,703, 712		2.2K ohm	7
R118		3.3K ohm	1
R309,705, 707		4.7K ohm	3
R302,336, 337		5.6K ohm	3
R125,317, 329,338		6.8K ohm	4
R101,325, 714,709		10K ohm	4
R321,323		12K ohm	2
R103,106, 111,114, 119,312		15K ohm	6
R706		22K ohm	1
R340,722		33K ohm	2
R320		39K ohm	1
R117		47K ohm	1
R108,109, 319		100K ohm	3
R713		1.5M ohm	1
R126		Solid, 10 ohm, ±10%, ½W	1
R730		Solid, 3.3M ohm, ±10%, ½W	1
R701	4-222T-47900	Variable Resistor, 100K ohm "B", VOLUME	1
R708,710	4-222T-47700	Variable Resistor, Slide, TREBLE/BASS	2
R326	4-222T-03100	Semi-fixed Resistor, 2K ohm, Meter	1

PARTS LIST

Schematic Location	Part No.	Description	Q'ty
CAPACITORS			
C335		Ceramic, 1pF, ±0.25pF, 50V	1
C119,130, 149,315		Ceramic, 3pF, ±0.25pF, 50V	4
C316		Ceramic, 4pF, ±0.25pF, 50V	1
C106,133		Ceramic, 5pF, ±0.25pF, 50V	2
C111,113		Ceramic, 6pF, ±0.5pF, 50V	2
C115		Ceramic, 7pF, ±0.5pF, 50V	1
C139		Ceramic, 8pF, ±0.5pF, 50V	1
C116		Ceramic, 10pF, ±10%, 50V	1
C112		Ceramic, 12pF, ±5%, 50V	1
C117		Ceramic, 15pF, ±10%, 50V	1
C104		Ceramic, 18pF, ±5%, 50V	1
C101,109, 144		Ceramic, 20pF, ±10%, 50V	3
C118,148, 329		Ceramic, 30pF, ±10%, 50V	3
C145		Ceramic, 35pF, ±5%, 50V	1
C122,303, 141		Ceramic, 40pF, ±5%, 50V	3
C123,142		Ceramic, 60pF, ±5%, 50V	2
C121		Ceramic, 90pF, ±5%, 50V	1
C126,143, 343,735		Ceramic, 100pF, ±10%, 50V	4
C338		Ceramic, 220pF, ±20%, 50V	1
C110		Ceramic, 470pF, ±20%, 50V	1
C107,108, 301,307, 319,334		Ceramic, 0.01μF, +80–20%, 50V	6
C127,147, 312,317, 340,347		Ceramic, 0.022μF, +80–20%, 50V	6
C102,103, 105,306, 313,320, 731,732, 733,734		Ceramic, 0.04μF, +80–20%, 50V	10
C327,709		Ceramic, 0.1μF, ±20%, 12V	2
C135		Ceramic, 30pF, ±5%, 50V	1
C136		Ceramic, 100pF, ±5%, 50V	1
C125		Ceramic, 0.001μF, +80–20%, 50V	1
C328,330, 331,719, 720,725, 726		Mylar, 0.001μF, +20%, 50V	7
C137,140, 305,710		Mylar, 0.0022μF, ±20%, 50V	4

Schematic Location	Part No.	Description	
CAPACITORS			
C328,330, 331,719, 720,725, 726		Mylar, 0.0033μF, ±20%, 50V	7
C124,134, 310		Mylar, 0.0047μF, ±20%, 50V	3
C703		Mylar, 0.0068μF, ±20%, 50V	1
C128,321, 322,706		Mylar, 0.01μF, ±20%, 50V	4
C131,302, 304,308, 314,325, 326,337, 339,345, 704		Mylar, 0.022μF, ±20%, 50V	11
C323,342		Mylar, 0.033μF, ±20%, 50V	2
C336,341, 701,705, 707,708		Mylar, 0.039μF, ±20%, 50V	6
C721,727		Mylar, 0.1μF, ±20%, 50V	2
C129		Styrol, 300pF, ±5%, 125V	1
C132		Styrol, 900pF, ±5%, 125V	1
C138		Styrol, 3600pF, ±5%, 125V	1
C333		Electrolytic, 0.1μF, 10V	1
C702		Electrolytic, 0.22μF, 10V	1
C114,318, 714,723		Electrolytic, 1μF, 10V	4
C740,741		Electrolytic, 2.2μF, 16V	2
C332,730		Electrolytic, 4.7μF, 25V	2
C311		Electrolytic, 10μF, 16V	1
C717,724		Electrolytic, 22μF, 10V	2
C722,728		Electrolytic, 47μF, 10V	2
C716		Electrolytic, 100μF, 10V	1
C324		Electrolytic, 220μF, 6.3V	1
C711,715		Electrolytic, 220μF, 10V	2
C712		Electrolytic, 470μF, 10V	1
C713		Electrolytic, 1000μF, 6.3V	1
C729		Electrolytic, 2200μF, 10V	1
VC,VCT	4-224T-07100	Tuning Capacitor	1
CT1,2,4,6	4-224R-01600	Trimmer, 16pF	4
CT3	4-224R-11800	Trimmer, 16pF x 2	1
CT5,7	4-224T-07300	Trimmer, 30pF	2

CB CHANNEL VS FREQUENCY

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	26.965	15	27.135	29	27.295
2	26.975	16	27.155	30	27.305
3	26.985	17	27.165	31	27.315
4	27.005	18	27.175	32	27.325
5	27.015	19	27.185	33	27.335
6	27.025	20	27.205	34	27.345
7	27.035	21	27.215	35	27.355
8	27.055	22	27.225	36	27.365
9	27.065	23	27.255	37	27.375
10	27.075	24	27.235	38	27.385
11	27.085	25	27.245	39	27.395
12	27.105	26	27.265	40	27.405
13	27.115	27	27.275		
14	27.125	28	27.285		

MEMO

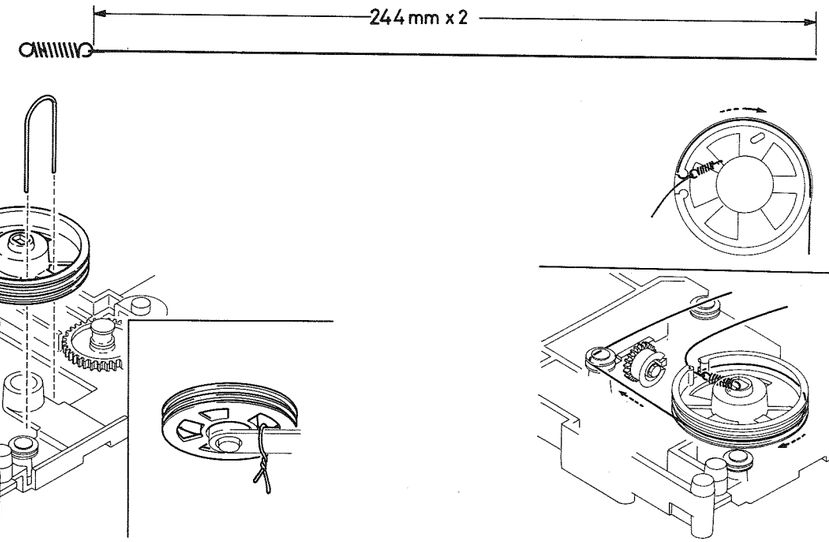


Fig. 5

Tie the drum to the chassis with a rope.

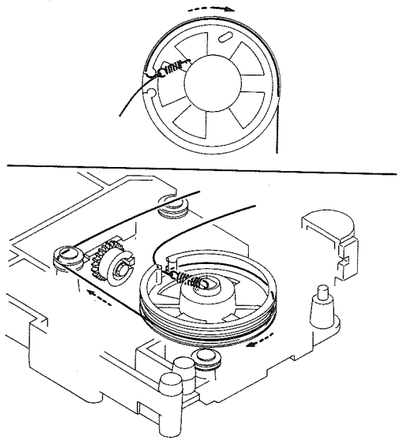


Fig. 6

Hook the free end of a tension spring to the drum at its center and place the dial cord along a lower groove of the drum around the drum along its lower groove as shown.

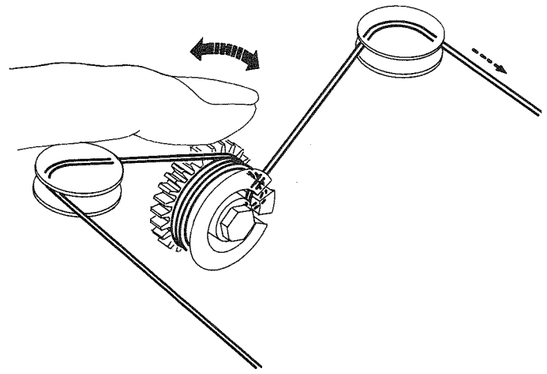


Fig. 7

Wind the cord around the geared drum 3 turns, then loop it through cut openings on the drum a turn, as shown.

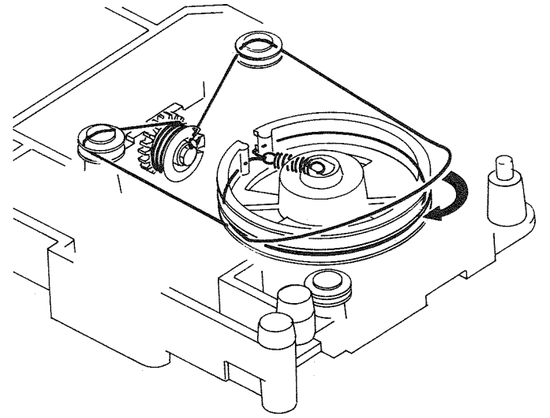


Fig. 8

Wind the cord around the drum as shown.

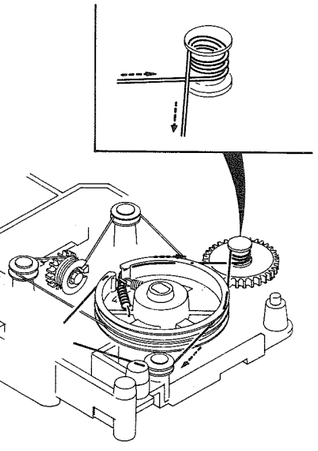


Fig. 9

Hook, the free end of another tension spring to the drum and place the dial cord around the drum along its upper groove. Then turn it around the gear by 3 turns.

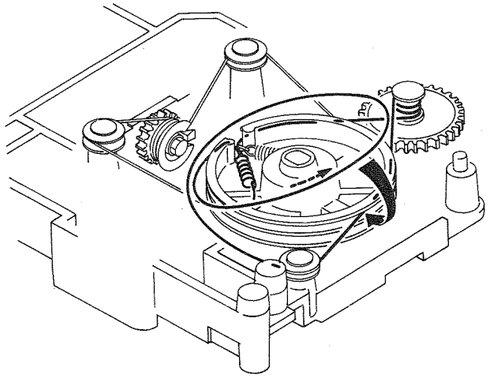


Fig. 10

Pass it through 2 pulleies and turn it around the drum by 1 turn as shown. Then reform the dial cord stringing neatly.

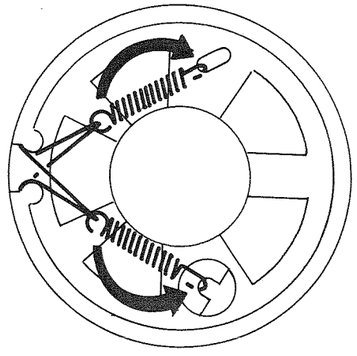
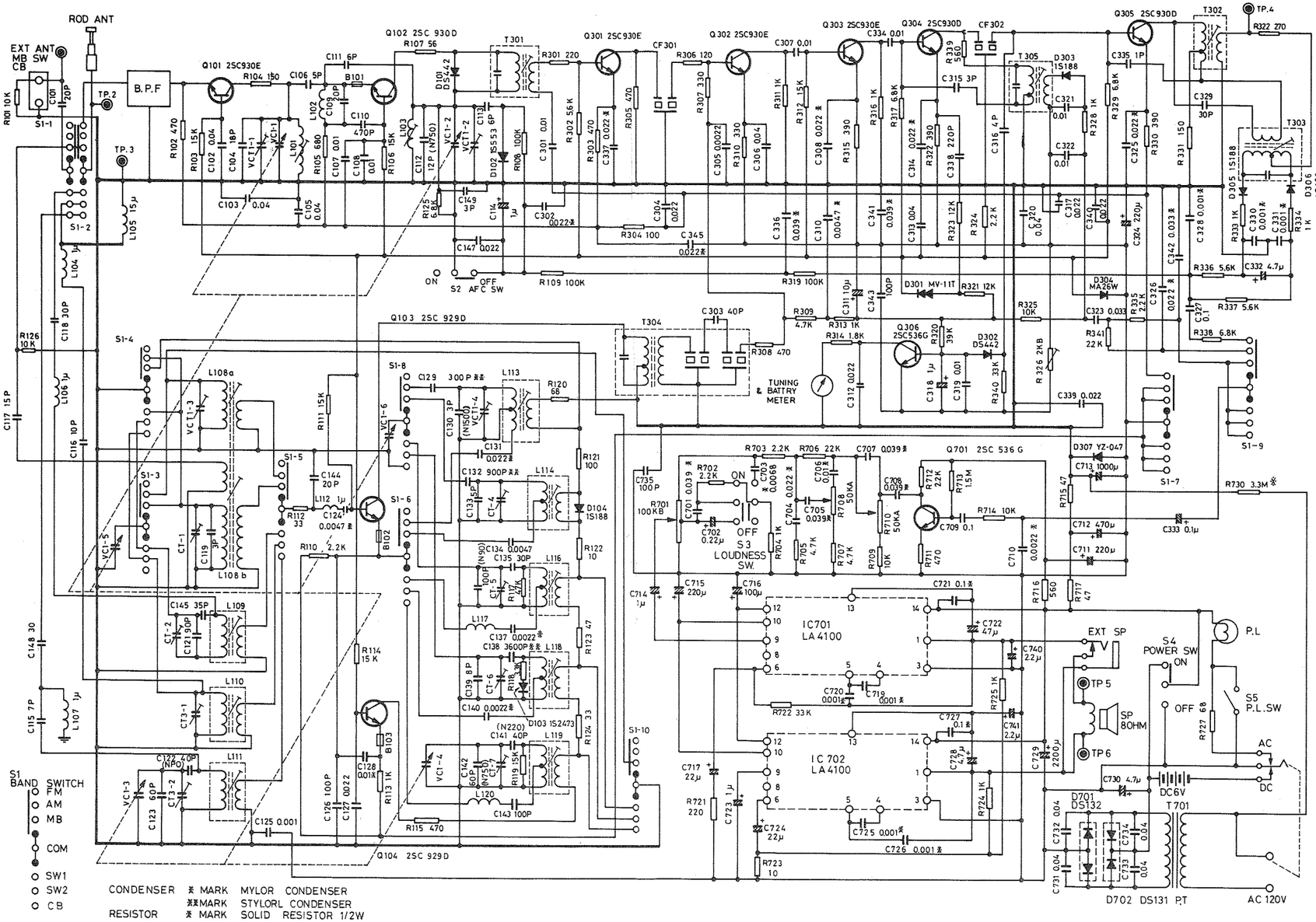


Fig. 11

Shift the hooking point of each tension spring at the respectively specified point as shown.



VOLTAGE CHART OF EACH TRANSISTORS

		Q101	Q102	Q103	Q104	Q301	Q302	Q303	Q304	Q305	Q306	Q701
C	AM	0	0	4.6	4.2	0	3.8	3.6	4.0	0	4.0	4.6
	FM	4.2	4.3	0	0	4.0	3.8	3.6	4.0	4.0	4.0	4.6
B	AM	0	0	1.1	1.05	0	0.9	1.0	1.1	0	0.6	0.7
	FM	0.9	0.9	0	0	0.95	0.9	1.0	1.1	1.05	0.6	0.7
E	AM	0	0	0.5	0.5	0	0.25	0.4	0.4	0	0.1	0.25
	FM	0.25	0.3	0	0	0.3	0.25	0.4	0.4	0.45	0.1	0.25

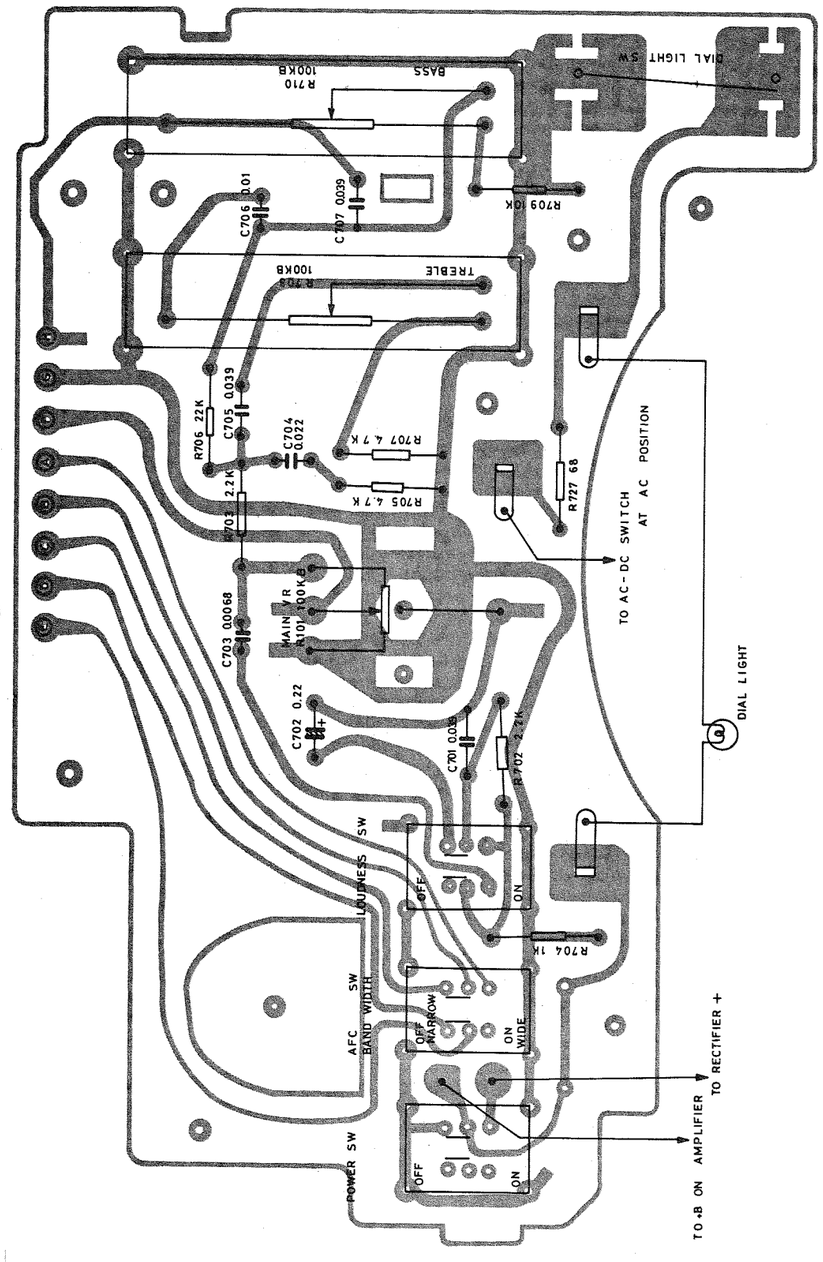
NOTES 1. All voltage are measured from common negative (−) ground.
2. Volume control is at the minimum position.

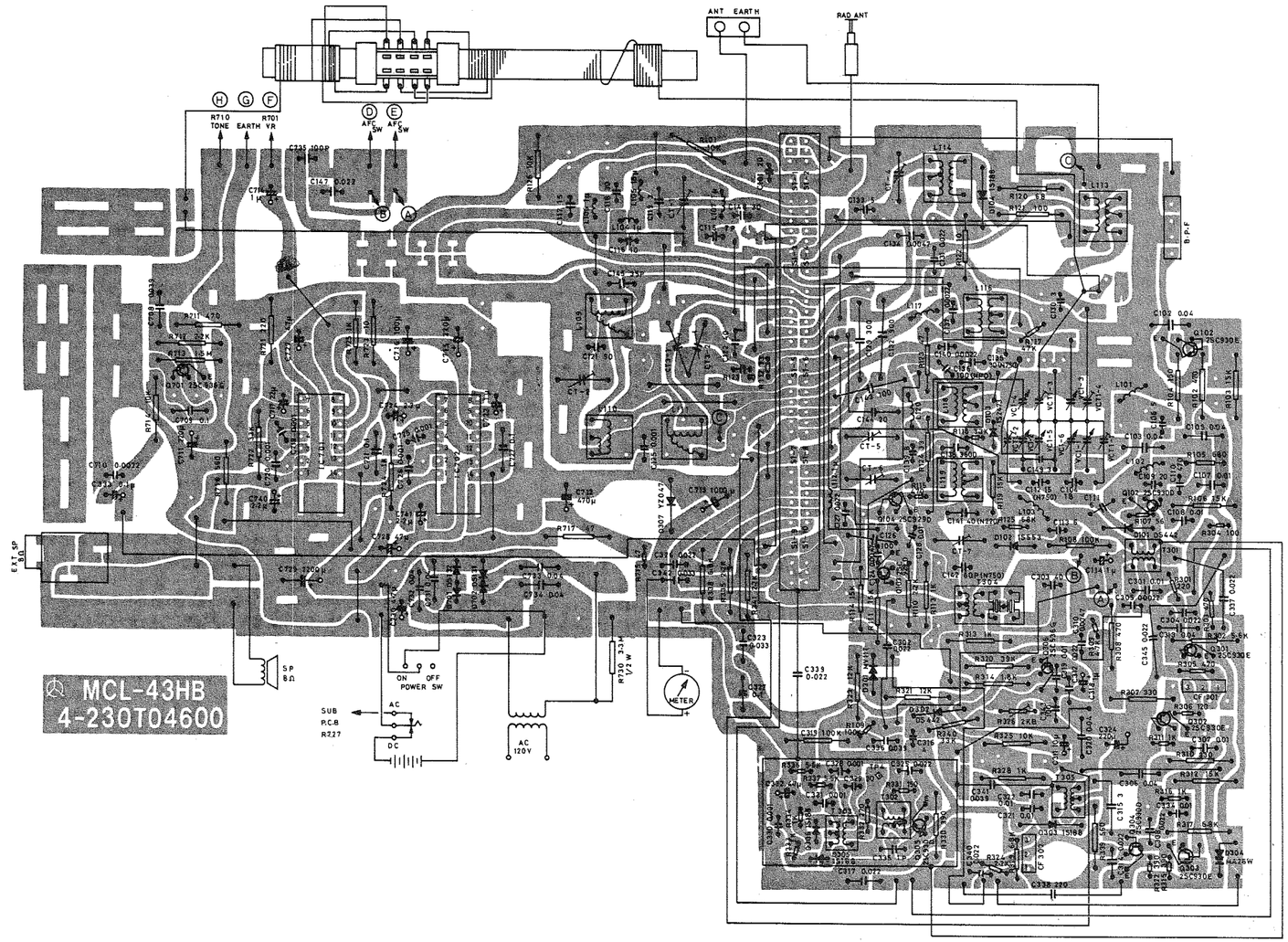
Integrated Circuit IC 701. 702

	NO 1	NO 2	NO 3	NO 4	NO 5	NO 6	NO 7
AM	3.0	0	0	4.3	0.8	3.0	0
FM	3 0	0	0	4.3	0.8	3.0	0

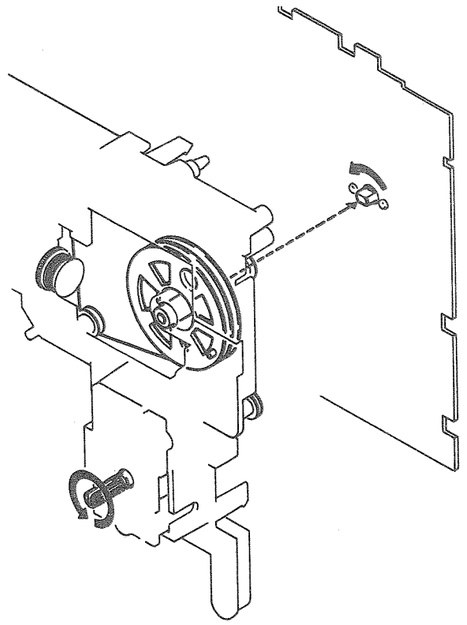
	NO 8	NO 9	NO 10	NO 11	NO 12	NO 13	NO 14
AM	2.4	3.0	3.1	0	5.8	5.9	6.0
FM	2.4	3.0	3.1	0	5.8	5.9	6.0

NOTES 1. All voltages are measured from common negative (−) ground.
2. Volume control is at the minimum position.


DIAL LIGHT SW
BASS
R710 100KB
C706 0.01
C707 0.039
R709 10K
TREBLE
R708 100KB
C705 0.039
R706 22K
C704 0.022
R707 4.7K
R705 4.7K
R703 2.2K
C703 00068
MAIN VR
R701 100KB
C702 0.22
C701 0.033
R702 2.2K
R704 1K
R727 68
TO AC-DC SWITCH AT AC POSITION
DIAL LIGHT
AFC SW
BAND WIDTH SW
LOUDNESS SW
OFF
ON
OFF NARROW
ON WIDE
POWER SW
OFF
ON
TO +B ON AMPLIFIER
TO RECTIFIER +


ANT EARTH
RAD ANT
R710 TONE
EARTH
R701 VR
AFC SW
AFC SW
B.P.F
S.P 8Ω
ON OFF POWER SW
SUB P.C.B R727
AC
DC
AC 120V
METER
MCL-43HB
4-230T04600

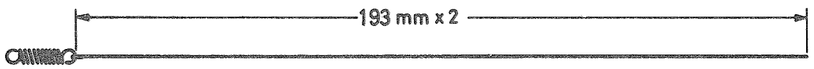
DRUM MOUNTING ON THE TUNING CAPACITOR SHAFT



Mount the drum on the tuning capacitor shaft with its shaft rotated fully counterclockwise when the tuning control shaft is placed at a fully counterclockwise position to provide a lowest frequency indication on dial scale.

Fig. 12

HOW TO STRING DIAL CORD FOR WAVE BAND INDICATION



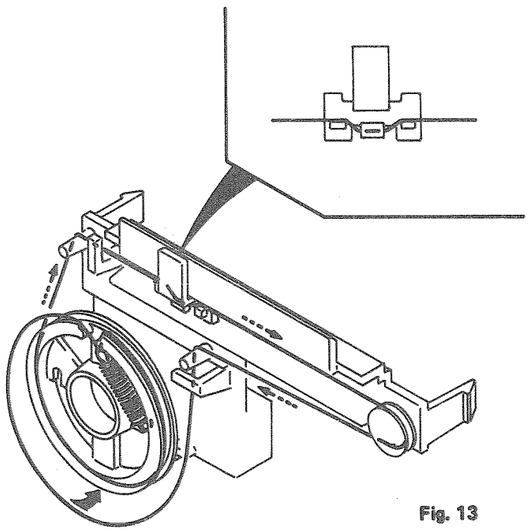


Fig. 13

DIAL SCALE CALIBRATION

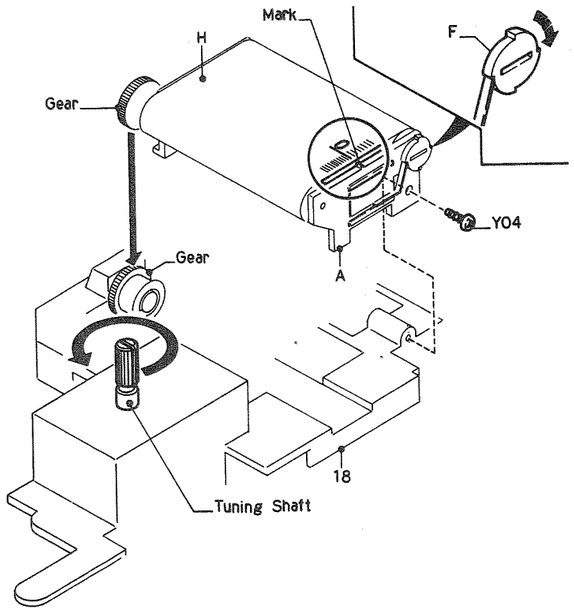


Fig. 14

Turn the tuning shaft fully counter-clockwise and adjust the zero point (on the dial scale) at the projected mark (on the bracket (A)) by rolling the dial scale. Then, mount the dial scale and the bracket on the chassis (18) with a screw (YO4) after engaging the gears of both the dial scale and the chassis with each other. Eliminate a slack in the dial scale by turning the gear (F) clockwise by 10 turns.

ZERO ADJUSTMENT ON INDICATOR

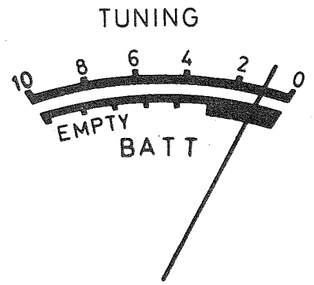


Fig. 15

Set the band selector switch at MW. Apply a 6V DC source voltage to the unit and adjust the mini-pot (R326) to make pointer point the letter "1" on the scale (a center of bold yellow line.)

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