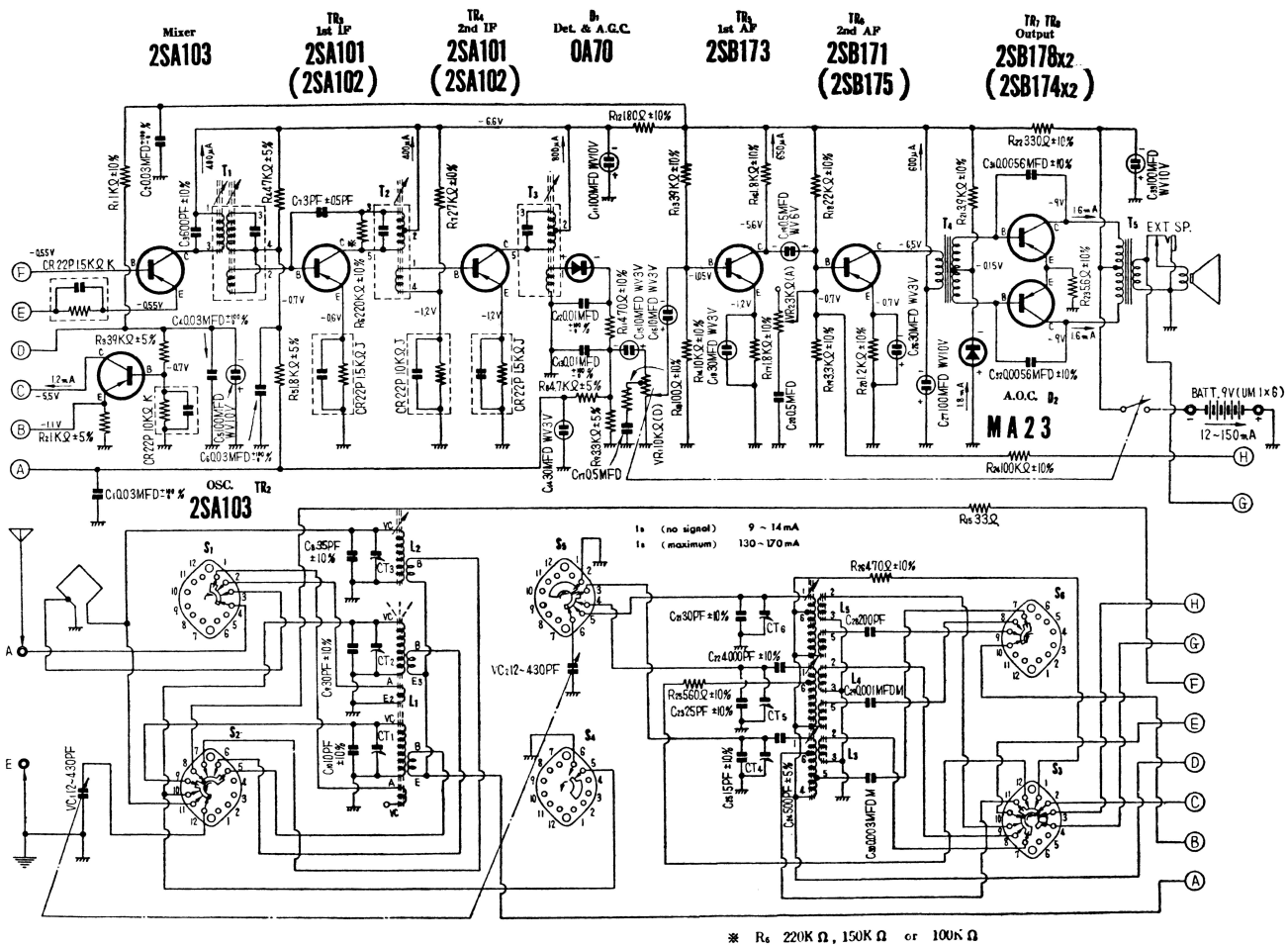
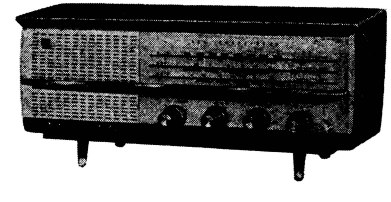
NATIONAL MODEL BT-352



※ R6 220KΩ, 150KΩ or 100KΩ

SPECIFICATIONS

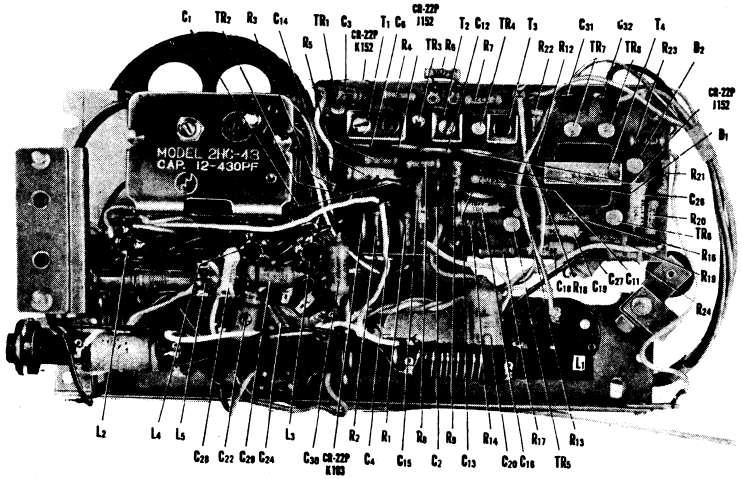
Frequency Range :	MW	535 ~ 1605KC	(561~187.5 m)
	SW_1	3.2 ~ 8.5 MC	(93.8~35.3 m)
	SW_2	8.5 ~ 22 MC	(35.3~13.6 m)
Intermediate Frequency :	455 KC		
Sensitivity :	MW	150 μV/m/50mW	30 μV/50mW
	SW_1	150 μV/m/50mW	30 μV/50mW
	SW_2	150 μV/m/50mW	50 μV/50mW
Power Output :	500mW	undistorted	
	800mW	maximum	
Batteries :	Six No. 1 flashlight dry cells (NATIONAL UM-1 or equivalents)		
Speaker :	12cm (5") PM dynamic speaker		



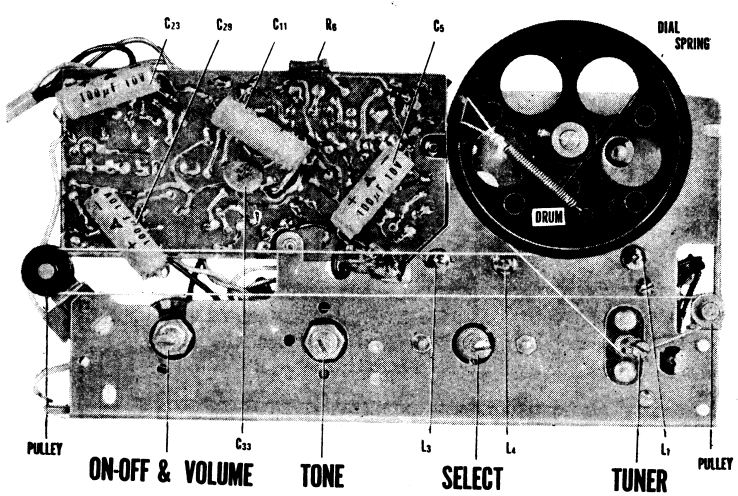
MODEL BT-352

COIL, TRIMMER ALGINMENT & TUBE LOCATION

(CHASSIS TOP VIEW)



(CHASSIS BOTTOM VIEW)

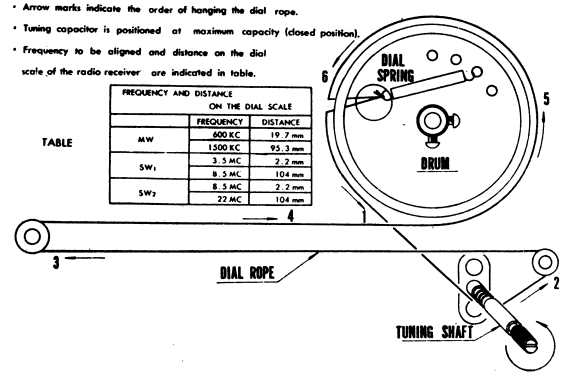


DIAL CORD STRINGING

Notes :
- Arrow marks indicate the order of hanging the dial rope.
- Tuning capacitor is positioned at maximum capacity (closed position).
- Frequency to be aligned and distance on the dial scale of the radio receiver are indicated in table.

TABLE

FREQUENCY AND DISTANCE ON THE DIAL SCALE		
	FREQUENCY	DISTANCE
MW	600 KC	19.7 mm
	1500 KC	95.3 mm
SW_1	3.5 MC	2.2 mm
	8.5 MC	104 mm
SW_2	8.5 MC	2.2 mm
	22 MC	104 mm



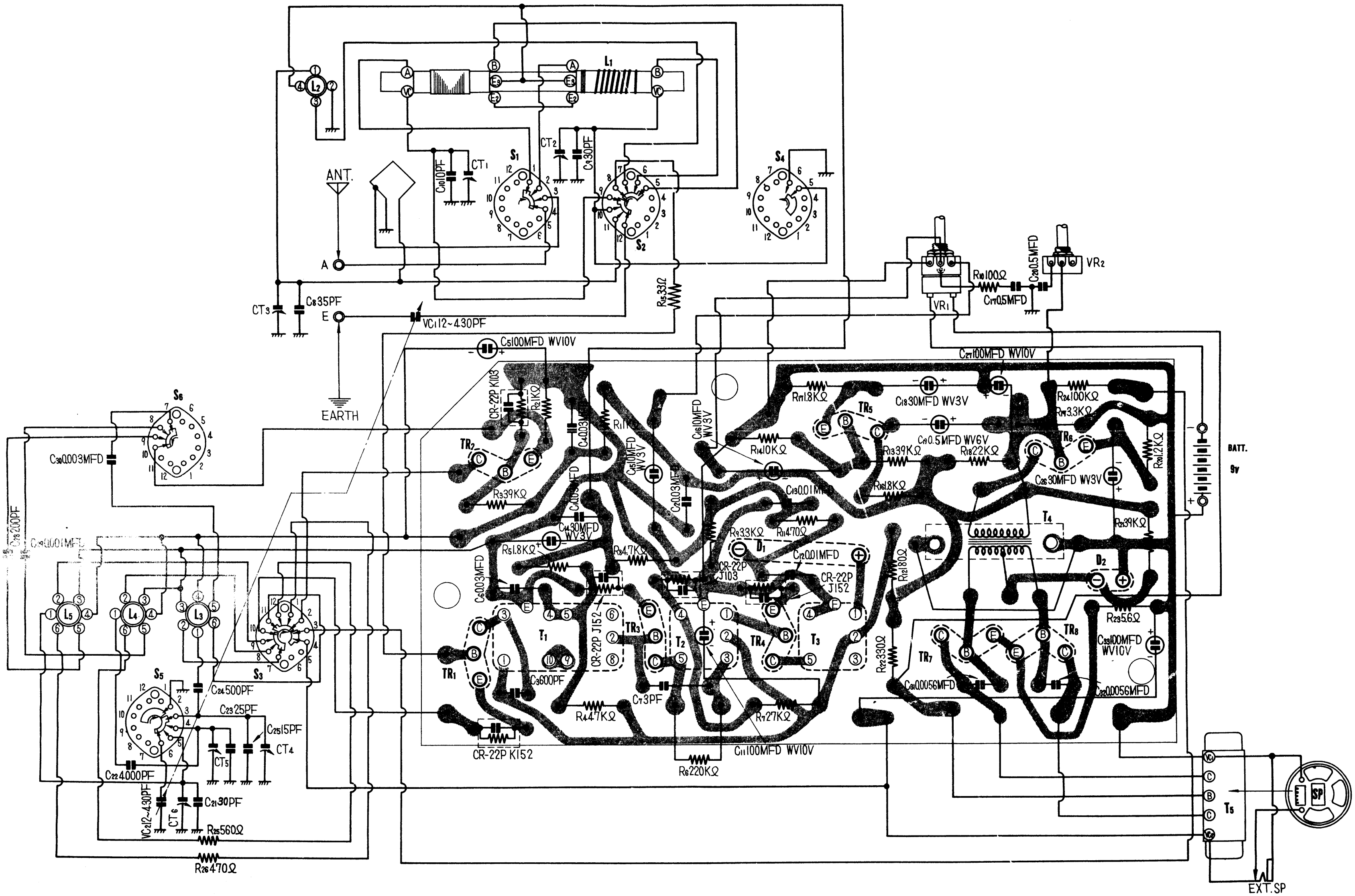
ALIGNMENT PROCEDURE

OUTPUT METER ..... Connect Output Meter across speaker voice coil terminals.
OUTPUT LEVEL ..... Attenuate Test Oscillator output always to maintain 0.5 volt on Output Meter to prevent overloading of the receiver.
TEST OSCILLATOR ..... Modulate Test Oscillator at 400 c/s and connect the lead wire of Test Oscillator output to Radiation loop coil.
RADIO RECEIVER ..... Place the radio 60cm (24″) away fram Radiation loop coil.

Step	Band Switch Position	Test Oscillator		Radio Receiver	
		Connection to radio receiver	Dial setting	Dial setting	Adjusting for maximum output
1	MW	Use radiation loop coil (See Fig. 1)	455 KC	Quiet point 530 KC	Top screws of IF transformer
2			600 KC	600 KC	Screw of L_5 OSC coil & MW ANT coil inductance
3			1500 KC	1500 KC	Screw of MW OSC trimmer Screw of MW ANT trimmer
4			600 KC & 1500 KC	600 KC & 1500 KC	Repeat steps (2) and (3)
5	SW_1		3.2 MC	3.2 MC	Screw of SW_1 OSC coil & SW_1 ANT coil inductance
6			8.5 MC	8.5 MC	Screw of SW_1 OSC trimmer Screw of SW_1 ANT trimmer
7			3.2 MC & 8.5 MC	3.2 MC & 8.5 MC	Repeat steps (5) and (6)
8	SW_2		8.5 MC	8.5 MC	Screw of SW_2 OSC coil Screw of SW_2 ANT coil
9			22 MC	22 MC	Screw of SW_2 OSC trimmer Screw of SW_2 ANT trimmer
10			8.5 MC & 22 MC	8.5 MC & 22 MC	Repeat steps (8) and (9)
11	Check if the above dial settings for SW bands are not made at image frequency.				

Notes : Please make all adjustments after the chassis is installed into the cabinet.

NATIONAL MODEL BT-352



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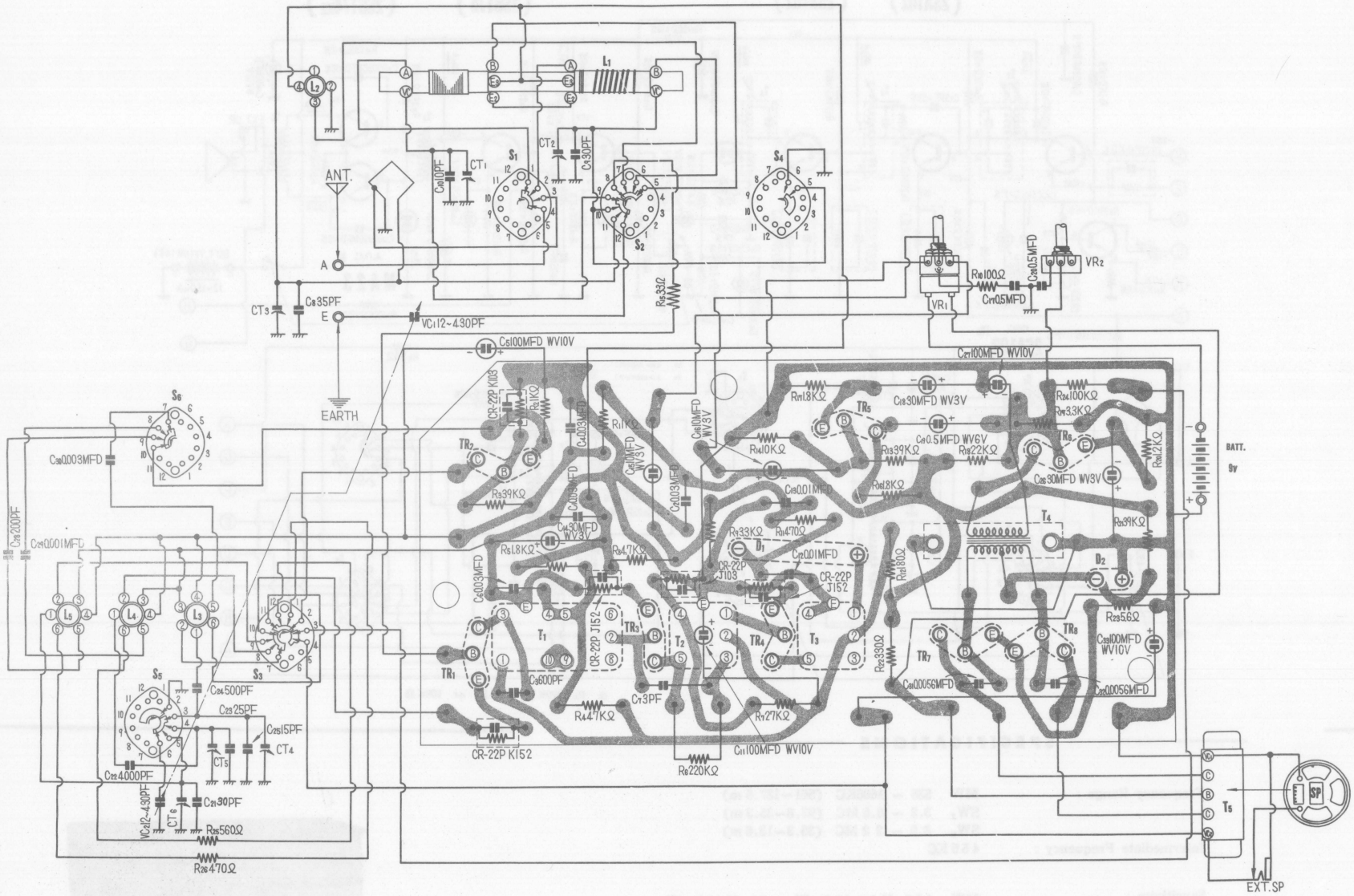

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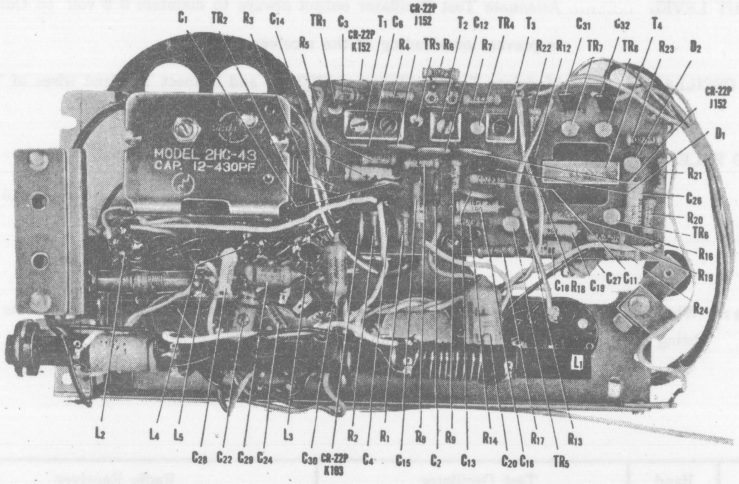

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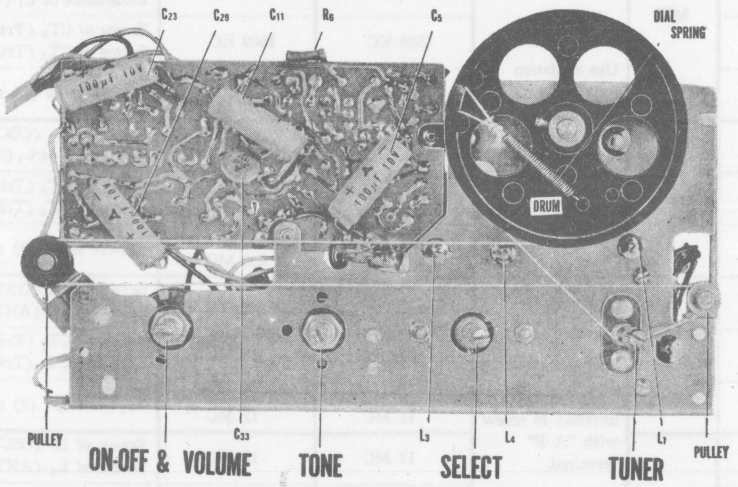

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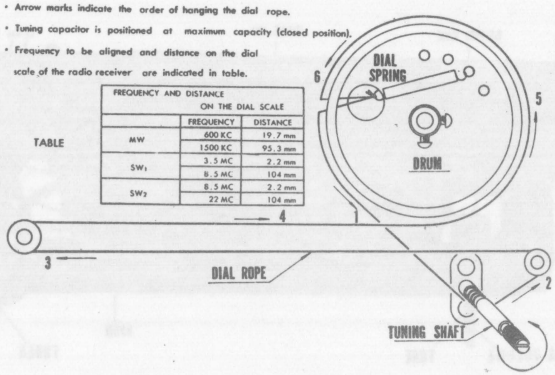

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6			8.5 MC	8.5 MC	Screw of SW_1 OSC trimmer Screw of SW_1 ANT trimmer
7			3.2 MC & 8.5 MC	3.2 MC & 8.5 MC	Repeat steps (5) and (6)
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9			22 MC	22 MC	Screw of SW_2 OSC trimmer Screw of SW_2 ANT trimmer
10			8.5 MC & 22 MC	8.5 MC & 22 MC	Repeat steps (8) and (9)
11	Check if the above dial settings for SW bands are not made at image frequency.				

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