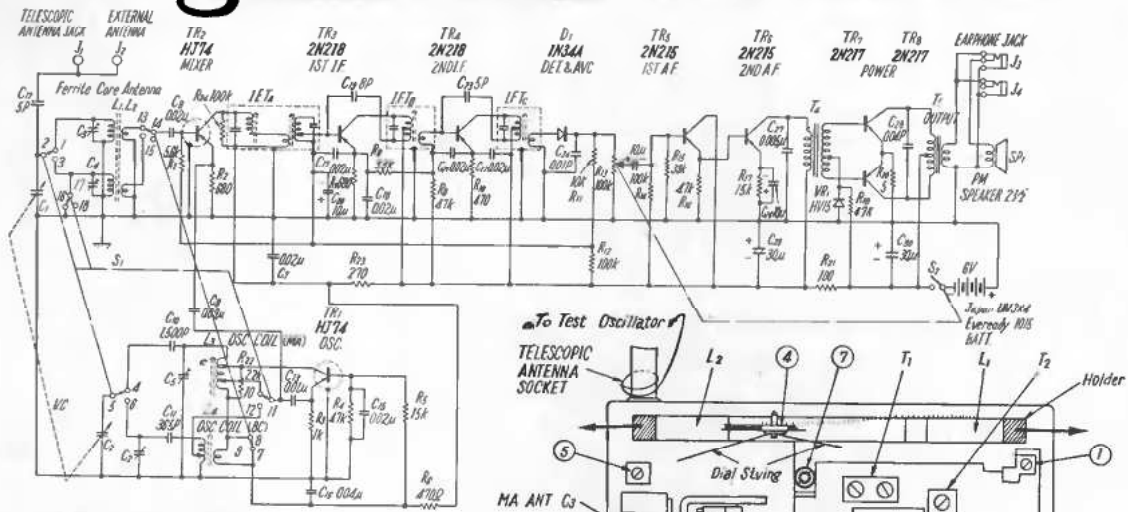


Hitachi, Ltd. model WH-822M



ALIGNMENT PROCEDURE

Turn volume control to maximum.
 Modulate the test oscillator at 400 c/s or 1,000 c/s. Connect it with the rod antenna through 10 pF and connect oscillator ground wire to radio chassis.

Take out output from earphone jack and measure it using an AC voltmeter of the tester or V. T. V. M. at the range below 3 volts. As the output voltage increases as the adjustment proceeds, restrict the output of the oscillator so that the pointer swing is kept within 0.5 volt.

Adjustment of the intermediate frequency

Preparation		Adjust the band switch at BC.	
Adjustment Order	Division on Dial	Oscillator Frequency	Adjustment Place
1	Max. BC Division	455 kc	T3
2	Max. BC Division	455 kc	T2
3	Max. BC Division	455 kc	T1 (Right)
4	Max. BC Division	455 kc	T1 (Left)
5	Max. BC Division	455 kc	Repeat 1-4

Adjustment of high frequency circuit (BC)

Preparation		Adjust the band switch at BC	
Adjustment Order	Division on Dial	Oscillator Frequency	Adjustment Place
6	Max. BC Division	1,650 kc	C6
7	Min. BC Division	525 kc	L4
8	Repeat 6 & 7		Repeat 6 & 7
9	Receive 600 kc	600 kc	L2
10	Receive 1,400 kc	1,400 kc	C4
11	Repeat 9 & 10		Repeat 9 & 10

Adjustment of high frequency circuit (MA)

Preparation		Adjust the band switch at MA		
Adjustment Order	Division on Dial	Oscillator Frequency	Adjustment Place	Remarks
12	Max. MA Division	4.7 Mc	C5	*1
13	Min. MA Division	1.55 Mc	L3	
14	Repeat 12 & 13		Repeat 12 & 13	
15	Receive MA 11 Mc	4 Mc	C3	*2
16	Receive MA 4 Mc	1.65 Mc	L1	
17	Repeat 15 & 16		Repeat 15 & 16	

*1. When you adjust 12 & 15, watch image. When you turn oscillator at 12, it must receive another signal at 5.6 Mc. However, if you receive the signal at 3.8 Mc, you must readjust the oscillator, as it is possible that the signal is tuned with the image. The same applies to 15.
 *2. When you adjust 15, the receiving frequency will slip out if you move C3. Move the frequency of the oscillator & try to adjust, keeping it always at the maximum.

