

Marconi Model 104 Marconi Models 105, 105-A **Battery Operated Radio**

The manual volume control should be kept at maximum and the signal from the test oscillator should be kept at a sufficiently low level to prevent the A.V.C. coming into operation.

If a Cathode Ray Oscillograph is used instead of an output meter the output should be measured across the volume control R4.

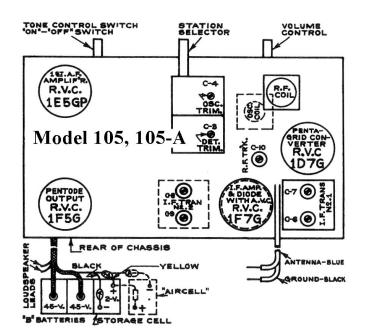
PROCEDURE FOR RE-ALIGNING I.F. TRANSFORMERS

- (1) Short oscillator section of tuning capacitor through
- a 0.1 MFD capacitor. [A gen Mode/ 104]
 (2) Supply a modulated 462.5 K.C. Signal from a test oscillator to the control grid cap of the 1076 converter tube leaving the grid connector in place.

 (3) Adjust in order C9,C8,C7 and C6 for maximum output.

PROCEDURE FOR RE-ALIGNING BROADCAST BAND

- (1) Check setting of pointer. With gang capacitor at maximum (i.e., plates meshed) the pointer should be set over the last radial line on the left hand side of the dial.
- (2) Rotate tuning control until pointer is at 1600 K.C.
- (3) Supply a 1600 K.C. signal from a test oscillator to the aerial and ground leads.
- (4) Adjust Broadcast oscillator trimmer C4 to tune in the 1600 K.C. signal.
- (5) Adjust Broadcast R.F. trinmer C3 for maximum output.
- (6) Shift test oscillator to 580 K.C.
- (7) Rotate tuning control until the 580 K.C. signal is reached.
- (8) Adjust Broadcast oscillator tracking capacitor ClO while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest output is obtained.
- (9) Recheck at 1600 K.C.



Voltage Chart Model 104

RADIOTRO N	CAP	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6					
1A6 Converter	**	90	90	0	40	0					
1F6 I.F., Det. & A.V.C.	**	90	40	0	0	0					
1B4 A.F. Amp.	**	29	32.5	0	-	-					
33 Pentode	-	82.5	*-2.1	90	0	-					

All readings taken with 20,000 ohm per volt-meter, receiver on B.C. Band, Volume Control at maximum, and Gang Capacitor at maximum.

- ** Control grid readings should not be taken except with a no-current volt-meter in order to avoid shorting bias cells.
- * Taken on 10 volt range.

Voltage Chart Model 105 & 105A

RADIOTRON	CAP	PIN 2	PIN 3	PIN 4	PIN 5	9 NId	P NIA	PIN 8
R.V.C. 1D7G	**	2	90	45	0	90	0	-
R.V.C. 1F7G	**	2	90	-	0	45	0	-
R.V.C. 1E5GP	**	2	17.5	35		-	0	-
R.V.C. 1F5G	•	2	85	90	*-1	-	0	-

All readings taken with 20,000 ohm per volt-meter, receiver on B.C. Band, Volume Control at maximum, and Gang Capacitor at maximum.

- ** Control grid readings should not be taken except with a no-current volt-meter in order to avoid shorting bias cells.
- Taken on 10 volt range.

