

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.

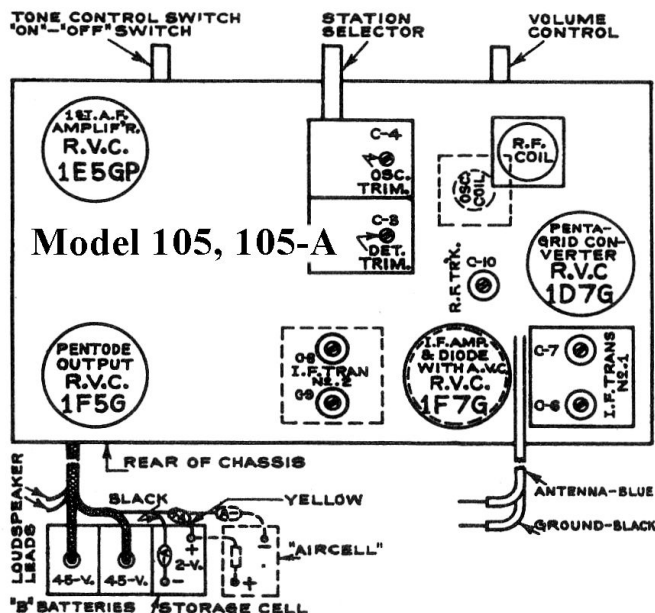
If a Cathode Ray Oscillograph is used instead of an output meter the output should be measured across the volume control R4.

PROCEDURE FOR RE-ALIGNING I.F. TRANSFORMERS

- (1) Short oscillator section of tuning capacitor through a 0.1 MFD capacitor.
- (2) Supply a modulated 462.5 K.C. signal from a test oscillator to the control grid cap of the 1C7G 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. trimmer 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 C10 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

RADIOTRON	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	PIN 6	PIN 7	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.

