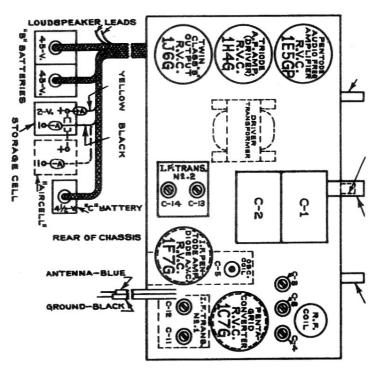


### Marconi Models 106 & 107 **Battery Operated Radio**

TONE CONTROL SWITCH "ON"-"OFF" SWITCH CONTROL STATION WAVE-CHANGE



1	0	90	0	0	90	N	3	1	R.v.c. 1J60
ı	0		# -0.1	0	90	N		1	R.V.C. 1H4G
1	0	,	ı	28.5	*8 . 2 G	N	ı	*	R.V.C. 1E50
1	0	45	0		90	N		*	R.V.C. 1F7G
1	0	62.5	*-3.75	45	90	N	ı	*	R.V.C. 1070
PIN 8	PIN 7	PIN 6	PIN 5	PIN 4	PIN 3	PIN 2	PIN 1	CAP	RADIOTRON

All readings taken with 20,000 receiver on B.C. Band, Volume and Gang Capacitor at maximum. Control 8 wolt-meter, merimum

Control grid readings shorting bias cells. a no-current volt-meter should ton be taken except order to PLOAG

Taken on 10 volt range.

#### ALIGNMENT INSTRUCTIONS

radiotrician should an accurate well attenuated test oscillator capable of supplying the following frequency fundamentals:-In order to properly re-align this receiver have available an output meter and

1600 and 580 for B.C. Band alignment. 9600 K.C. for S.W. Band alignment. 462.5 K.C. for I.F. alignment.

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

an output meter the the volume control R6. If a Cathode Ray Oscillor The output should is used instead of be measured across

# PROCEDURE FOR RE-ALIGNING I.F. TRANSFORMERS

- (1) Short oscillator section of tuning capacitor through a 0.1 mfd capacitor.
- (2) Supply a oscillator to the control grid cap of the 107G converter tube leaving the grid connector in place.

  (3) Adjust in order Cl4, Cl3, Cl2 and Cl1 for maximum modulated 462.5 K.C. signal from a test
- output.

## PROCEDURE FOR RE-ALIGNING BROADCAST BAND

- (1) Check setting of pointer. hole provided in the dial plate. that the pointer shaft is located centrally in the First of all ascertain
- 2) With gang capacitor at maximum(1.e., plates meshed), the top of the pointer should be set to coincide with the lower edge of the last radial line on the right hand side of dial.
- **ω**4 Rotate tuning control until pointer is at 1600 K.C. Supply a 1600 K.C. signal from a test oscillator to the serial and ground leads.

  Adjust broadcast oscillator trimmer C4 to tune in
- 6 Adjust R.F. trimmer C3 for maximum output.
- Shift test oscillator to 580 K.C. Rotate tuning control until the
- reached. until the 580 K.C. signal is
- Adjust B.C. oscillator tracking capacitor C5 while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest output is obtained.

## PROCEDURE FOR RE-ALIGNING SHORT-WAVE BANK

- Turn wave change switch to short wave (1.e., to **6**43
- Set pointer to 40th division on S.W. band. Set test oscillator to 9600 K.C. Adjust S.W. Oscillator trimmer C8 to tu
- 9600 KC signal to tune in the
- NOTE: A variation degrees is permissable, when making above S.W. adjustment. Also note that the S.W. Oscillator trimmer should be set on the low frequency side of the signal frequency (i.e., 9600 KC minus 462.5 KC). calibration of plus or minus