



WINDING POLARITY  
 "S" DESIGNATES START OF WINDING  
 "F" DESIGNATES FINISH OF WINDING

# Phonola - Electrohome 9A102-E

## PERMO-CAP AUTOMATIC TUNING

There are six buttons which may be easily adjusted to stations within the following ranges

The two left hand buttons..... 550 K.C. to 1100 K.C.  
 The two centre buttons..... 750 K.C. to 1300 K.C.  
 The two right hand buttons..... 850 K.C. to 1500 K.C.  
 (Refer to chassis layout chart.)

Two adjustments are necessary for setting each button. The adjusting screws are located on the chassis directly behind the button which they tune and are designated by No. 1 and No. 2. (Refer to chassis layout chart.)

The best method of adjustment is to choose the six stations (two within each frequency range as listed above) and proceed as follows:

- (1) Set the selector switch to position "L" and rotate the tuning knob to the desired station (within the 550 K.C.—1100 K.C. range.)
- (2) Set the selector switch to position "A" and press the button on the extreme left.
- (3) Locate the antenna adjusting screw which is associated with the button pressed (see Adj. No. 2, chassis layout chart) and make a temporary adjustment as follows: If the frequency of the station is near the high end of the range covered by the button, loosen the screw. If it is near the low end, tighten the screw.

## ALIGNMENT ---- PROCEED IN SEQUENCE SHOWN

Band	Band Switch Setting	Dummy Antenna	Connect Generator To	Radio Dial Setting	Generator Frequency	Trimmer Adjusted	Adjustment	Note
2nd I. F.	L	.1 Mfd.	Grid of 6K7G I. F. Tube	1740 K. C.	455 K. C.	2nd I. F. C18	Maximum Output	
1st I. F.	L	.1 Mfd.	Grid of 6ABG 1st Detector	1740 K. C.	455 K. C.	1st I. F. C11	Maximum Output	
1460 K. C.	L	200 Mmfd.	Antenna	1460 K. C.	1460 K. C.	B.C. Osc. C8 B.C. R.F. C9 B.C. Ant. C5	Maximum Output	
600 K. C.	L	200 Mmfd.	Antenna	600 K. C.	600 K. C.	B. C. Padder C2	Maximum Output	Rock Rotor Back & Forth
15 M. C.	S	400 Ohm	Antenna	15 M. C.	15 M. C.	S. W. Osc. C9 S. W. R.F. C9 S. W. Ant. C5	Maximum Output	Check Image See Note 1
6 M. C.	S	400 Ohm	Antenna	6 M. C.	6 M. C.	S. W. Padder C16	Maximum Output	
Wave Trap	A	200 Mmfd.	Antenna		455 K. C.	C1	Minimum Output	Auto. Low Freq. Rotor Depressed

## ALIGNMENT AND CALIBRATION

These receivers are carefully aligned and calibrated at the factory with precision instruments. If realignment is necessary, the following equipment is required:

- (1) A Signal Generator to supply with accuracy the frequencies:
  - (a) 455 K.C., (b) 1460 K.C., (c) 600 K.C., (d) 15 M.C., (e) 6 M.C.
- (2) A dependable Output Meter.

**Note 1**—When aligning oscillator section at high frequencies, care should be taken that the receiver is not adjusted to an image frequency in place of the fundamental. At 15 M.C. the fundamental will be obtained at minimum trimmer capacity.

**Note 2**—When aligning antenna trimmer at high frequencies, rock gang condenser back and forth to obtain maximum peak.

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