

6K7

6A8G

6G7G

6P5G

6F5G

6F6G

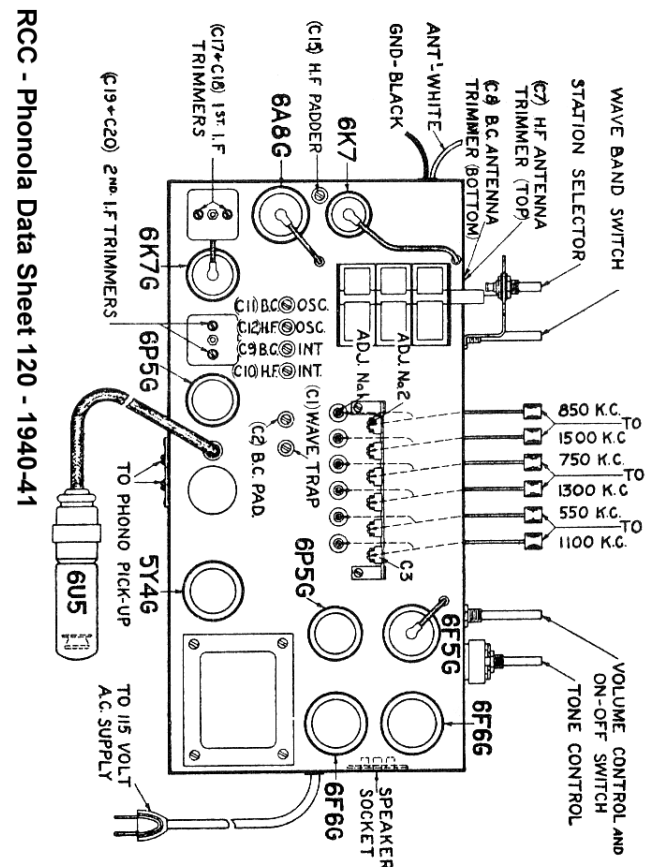
6F6G

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

SELECTOR SWITCH SHOWN IN "PHONO" POSITION

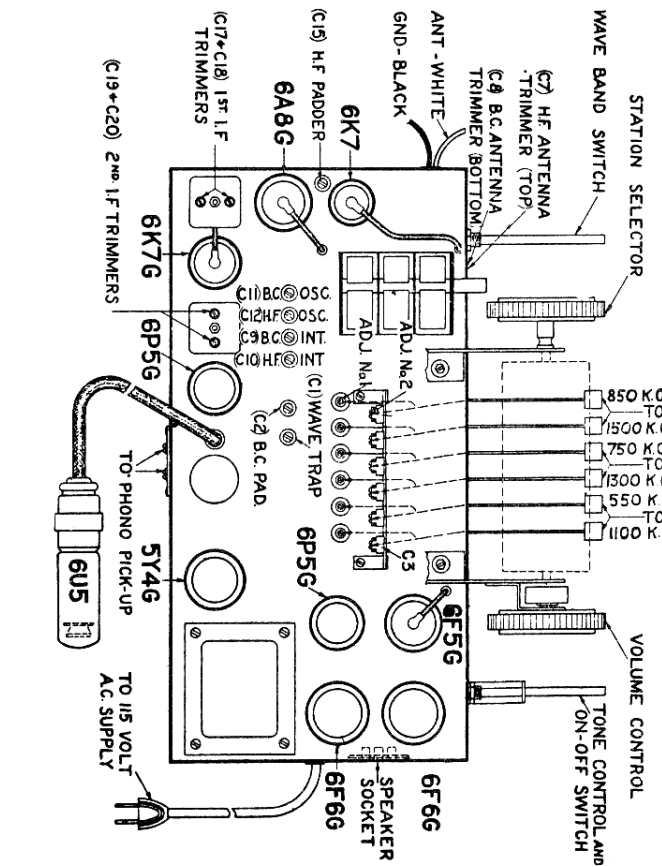
NOTE: TO MEASURE VOLTAGE OF "X1" USE ONLY V.T. VOLTMETER.

RECT. TO C.T.
302 V.D.C. @ 80 M.A.
115 V.A.C.



Electrohome

93A102-P
93A102-P-1
93A102-S
Z93A102-D
Z93A102-L



PERMO-CAP AUTOMATIC TUNING

Electrohme

- 93A102-P**
- 93A102-P-1**
- 93A102-S**
- Z93A102-D**
- Z93A102-L**

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.

(4) Locate the oscillator adjusting screw which is associated with the button pressed (see Adj. No. 1, chassis layout chart) and turn the screw until you hear the same station which was being received in step No. 1; adjust until the loudest signal is heard. If two stations within the same frequency range are broadcasting the same program, it is possible to tune to the incorrect station. In this case the only check is to wait for station identification.

(5) Turn the adjusting screw referred to in Step No. 3 until the loudest signal is heard.

(6) Following the adjustment of the six automatic tuning button circuits it is advisable to re-adjust the screws in row No. 1 to compensate for any slight discrepancy caused by adjusting the other screws.

(7) Tear the correct station name from the sheet supplied and insert it into the correct space. The sides and corners should be pushed in securely. If necessary, the station name can be removed by means of a pin.

Then proceed in exactly the same manner as described above to adjust for the second station desired. The only difference is of course that in step No. 2 the second button must be pressed. When adjusting for the third station, the third button must be used and so on.

ALIGNMENT ----- PROCEED IN SEQUENCE LISTED

Band	Band Switch Setting	Dummy Antenna	Connect Generator To	Radio Dial Setting	Generator Frequency	Trimmer Adjusted	Adjustment	Note
2nd I. F.	B	.1 Mfd.	Grid of 6K7G I. F. Tube	1650 K. C.	455 K. C.	2nd I. F. C19 C20	Maximum Output	
1st I. F.	B	.1 Mfd.	Grid of 6A8G Converter	1650 K. C.	455 K. C.	1st I. F. C17 C18	Maximum Output	
1460 K. C.	B	200 Mmfd.	Antenna	1460 K. C.	1460 K. C.	R. C. Osc. C14 B. C. R.F. C9 B. C. Ant. C8	Maximum Output	
600 K. C.	B	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. C12 S. W. R.F. C10 S. W. Ant. C7	Maximum Output	Check Image See Note 1
6 M. C.	S	400 Ohm	Antenna	6 M. C.	6 M. C.	S. W. Padder C15	Maximum Output	
Wave Trap	B	200 Mmfd.	Antenna	535 K. C.	455 K. C.	C1	Minimum Output	