

## Orthon

Model: **615**

Chassis:

Year: **Pre 1951**

Power:

Circuit:

IF:

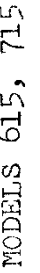
Tubes:

Bands:

### Resources

**Riders Volume 20 - ORTHON 20-1**

**Riders Volume 20 - ORTHON 20-2**



Osc. CLK

ANT CKI:

MODELS 605, 615,  
705, 715

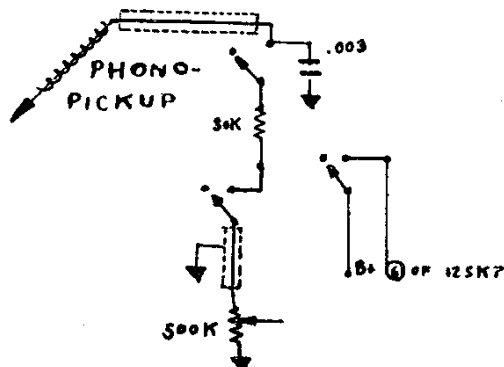
## ★ ALIGNMENT PROCEDURE

| Steps | Dummy Ant.                         | Coupling                                                         | Gen. Freq. | Band Switch | Dial Setting | Output Meter      | Adjust                               | Remarks                                                                                                                                     |
|-------|------------------------------------|------------------------------------------------------------------|------------|-------------|--------------|-------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| I.    | .05                                | RF Stator on Variable Condenser.                                 | 455 KC     | BC          | 550          | Across Voice Coil | Trimmers on input and output IF cans | Adjust for maximum reading.                                                                                                                 |
| II.   | .05                                | Radiated signal. A loop of a few turns of wire 15" from chassis. | 1600 KC    | BC          | 1660         | "                 | C1t<br>C2t<br>C3 trimmer             | C2t should be near min. capacity. Adjust C3 for max. — then C1t for maximum.                                                                |
| III.  | .05                                | "                                                                | 1000 KC    | BC          | 1000         | "                 | C4                                   | Adjust only if center of dial does not track. Adjust for max. As this adjustment affects setting of C3, it may be necessary to repeat this. |
| VI.   | 400 ohms in series with generator. | To antenna on radio.                                             | 5 MC       | SW1         | 5MC          | "                 | C5<br>C6                             | C5 is SW1 osc. Adjust till 5 MC is heard. Then adjust C6 for max. reading.                                                                  |
| V.    | "                                  | "                                                                | 15 MC      | SW2         | 15MC         |                   | C7<br>C8                             | C7 is Sw2 osc. Adjust till 15MC is heard. Then adjust C8 for max. reading.                                                                  |

- To align Models 605 and 705 use steps I, II, III and V.
- To align Models 615 and 715 use steps I, II, III, IV and V.

- C1t Located on variable condenser  
C2t Located on variable condenser.  
C3 B'cast osc. trimmer.  
C4 B'cast paddler.  
C5 2-6 MC Oscillator trimmer.  
C6 2-6 MC Antenna trimmer.  
C7 6-18 MC Oscillator trimmer.  
C8 6-17 MC Antenna trimmer.

**Tube Types:** 1-12SK7 R. F. Amplifier.  
1-12SA7 Converter.  
1-12SK7 I.F. Amplifier.  
1-12SQ7 Diode Detector, Audio Amplifier.  
1-35L6 Power output.  
1-35Z5 Rectifier.



PHONO-RADIO SWITCH FOR  
CONVERTING 605, 615 TO 705,  
715 RESPECTIVELY

Model 605 and 615 Power Supply: 105-125, 220-230, 50/60 cycles AC/DC.  
Model 705 and 715 Power Supply: 105-125, 220-230, 50/60 cycles AC only.