LAFAYETTE RADIO
RADIO WIRE TELEVISION, INC.

ALIGNMENT PROCEDURE

The following equipment is required for aligning:

- Volume Control—Maximum All Adjustments.
- Connect Chassis to Ground Post of Signal Generator with a Short-Heavy Lead.
- Allow Chassis and Signal Generator to "Heat Up" for several minutes.
- Signal Generator

<table>
<thead>
<tr>
<th>FREQUENCY SETTING</th>
<th>CONNECTION AT RADIO</th>
<th>DUMMY ANTENNA</th>
<th>BAND SWITCH SETTING</th>
<th>CONDENSER SETTING</th>
<th>ADJUST TRIMMERS TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>460 kc</td>
<td>Grid of 1st Dec.</td>
<td>S Range</td>
<td>Turn Rotor to Full Open</td>
<td>1st I.F. (C17) &amp; (C18) and 2nd I.F. (C24) &amp; (C25)</td>
<td></td>
</tr>
<tr>
<td>RANGE B</td>
<td>1750 kc</td>
<td>Antenna Lead</td>
<td>200 mmf.</td>
<td>Antenna Lead</td>
<td>200 mmf.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Full Open</td>
<td>Oscillator Range B (C16)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1500 kc</td>
<td>Antenna Lead</td>
<td>200 mmf.</td>
<td>Antenna Range B</td>
<td>Turn Rotor to Max Output</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Max Output</td>
<td>Int. Range B (C17)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>600 kc</td>
<td>Antenna Lead</td>
<td>200 mmf.</td>
<td>Antenna Range C</td>
<td>Turn Rotor to Max Output</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Max Output</td>
<td>Oscillator Range C (C17)</td>
<td></td>
</tr>
<tr>
<td>RANGE C</td>
<td>7000 kc</td>
<td>Antenna Lead</td>
<td>400 Ohm</td>
<td>Antenna Range D</td>
<td>Turn Rotor to Full Open</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Full Open</td>
<td>Oscillator Range D (C18)</td>
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</tr>
<tr>
<td></td>
<td>6000 kc</td>
<td>Antenna Lead</td>
<td>400 Ohm</td>
<td>Antenna Range B</td>
<td>Turn Rotor to Max Output</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Max Output</td>
<td>Int. Range B (C17)</td>
<td></td>
</tr>
<tr>
<td>RANGE D</td>
<td>21,000 kc</td>
<td>Antenna Lead</td>
<td>400 Ohm</td>
<td>Antenna Range D</td>
<td>Turn Rotor to Full Open</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range</td>
<td>Turn Rotor to Full Open</td>
<td>Oscillator Range D (C18)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>21,000 kc</td>
<td>Antenna Lead</td>
<td>400 Ohm</td>
<td>Antenna Range D</td>
<td>Turn Rotor to Max Output</td>
</tr>
<tr>
<td>LOOP RANGE B</td>
<td>1500 kc</td>
<td>See Note D</td>
<td>None</td>
<td>Antenna Range D</td>
<td>Loop Trimmer (C23)</td>
</tr>
<tr>
<td>LOOP RANGE C</td>
<td>6000 kc</td>
<td>See Note D</td>
<td>None</td>
<td>Antenna Range D</td>
<td>Loop Trimmer (C23)</td>
</tr>
<tr>
<td>LOOP RANGE D</td>
<td>31,000 kc</td>
<td>See Note D</td>
<td>None</td>
<td>Antenna Range D</td>
<td>Loop Trimmer (C23)</td>
</tr>
</tbody>
</table>

Note:
- Turn the rotor back and forth and adjust the trimmer until the peak of greatest intensity is obtained.
- NOTE A: For all adjustments, with the exception of the 3 loop range adjustments, the pin tip should be in the external antenna hole of the Antenna Selection Socket—See Illustration on page one.

Attention the signal from the signal generator to prevent the leveling-off action of the AVC.

After each range is completed, repeat the procedure as a final check.

NOTE B: If the pointer is set at 1500 kc on the dial, move the pointer from the card. Turn is a 1500 kc signal. Set pointer at the 1500 kc mark on the dial scale. Attach pointer to drive card.

CAUTION:—When aligning the chart wave bands, be sure NOT to adjust the AVC at the time frequency. This step is checked as follows: Let us say the signal generator is set for 500 kc. The signal will then be heard at 500 kc on the dial of the radio. The signal, which is in the signal generator, is 150 kc. If the signal is heard at either 500 kc or 694 kc on the dial, it is not necessary to increase the input signal to bear the image.

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MODELS B11, B15

LAFAYETTE RADIO
RADIO WIRE TELEVISION, INC.
Instructions for Mounting the New 7 Station Automatic Tuning Panel on the 7, 9, 11 and 13 Tube Chassis (REPLACING MOTOR DRIVE PANEL)

New 7 Station Automatic Tuning Panel

There are 8 pole buttons: Buttons No. 1, 5, 9 and 11 do not have needle point. When this button is depressed, the needle is in the off position and no tuning is possible.

The small holes above the button holes are for the connections to the automatic tuner system. In the case of early models, the screws are small enough to be countersunk until the desired position is touched on.

The mounting screws shown in Fig. 1, when turned, will loosen the unit from the panel and allow it to be removed in one piece. For slight adjustment, the top screws can be tightened or loosened.

Old Parts Used

See the following parts of the old assembly:

- Push-Button Switches
- Spring Clip
- Small Screws
- Old Motor Hands

The Following New Parts are Supplied

- Station automatic tuning panel assembly
- The parts shown in the list at the end of these instructions

Removing Old Motor Drive Panel from Chassis

Remove the brackets. The two set screw bolts and their parts are removed. The two screws can be pulled from the back of the bottom shield. Remove the set screw from the panel by pulling them off.

The screws in the motor support behind the electric drive panel must be removed and the support replaced. Remove the power plug from the motor by pulling them off. The power plug is not secured to the motor.

The upper two screws can be removed and the drive panel taken off the chassis. The bottom shield is then removed.

The chassis may be removed.

Locate the old tuning eye plate bracket from the cabinet.

Pull the electric-drive lever from the electric motor.

Mount the new electric drive panel to the chassis, taking care to line the holes up properly. The old panels are not used.

Mount the new electric drive panel to the chassis, taking care to line the holes up properly.

The following new parts are supplied: nuts, screws, and washers.

Knobs and Cover Plate

The 5 control knobs formerly used with the motor drive panel are also used with the new automatic tuning panel.

Alignment

After the new panel is installed, make the charts shown in the following pages and the new automatic tuning panel is operated.

It is a definite method that must be followed when making the alignment adjustment. A 100-foot length of wire should be used for checking the alignment. The alignment can be made as follows:

1. Remove the drive from the motor. The alignment system is turned off when the alignment is made.
2. Remove the screws on the top of the lens. The screws are removed for alignment.
3. Remove the screws on the bottom of the lens. The screws are removed for alignment.
4. Remove the screws on the top of the lens. The screws are removed for alignment.
5. Remove the screws on the bottom of the lens. The screws are removed for alignment.
6. Remove the screws on the top of the lens. The screws are removed for alignment.
7. Remove the screws on the bottom of the lens. The screws are removed for alignment.
8. Remove the screws on the top of the lens. The screws are removed for alignment.
9. Remove the screws on the bottom of the lens. The screws are removed for alignment.

Parts Shipped With 7 Station Automatic Tuning Panel

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>10,000,000服务商螺丝</td>
</tr>
<tr>
<td>2.</td>
<td>5,000,000服务商螺丝</td>
</tr>
<tr>
<td>3.</td>
<td>6-32导线锁紧螺母</td>
</tr>
<tr>
<td>4.</td>
<td>6-32导线锁紧螺母</td>
</tr>
<tr>
<td>5.</td>
<td>6-32导线锁紧螺母</td>
</tr>
<tr>
<td>6.</td>
<td>6-32导线锁紧螺母</td>
</tr>
<tr>
<td>7.</td>
<td>6-32导线锁紧螺母</td>
</tr>
</tbody>
</table>

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Fig. 9-9 and 11 Tube Chassis—Top View

Fig. 10-9 and 11 Tube Chassis—Bottom View

Fig. 11-9 and 11 Tube Schematic Diagram

Fig. 12-Table of Tuning Panel Leads Used

Fig. 13—Tuning Panel Schematic Diagram

Fig. 14—Tuning Panel Switch Terminals

9 AND 11 TUBE RADIOS

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