



## ALIGNMENT EQUIPMENT & PROCEDURE

FOR ALIGNMENT: An output meter and an accurately calibrated signal generator with a tuning range from 465 KC to 1500 KC are required.

1. Connect the output meter across the voice coil or between the plate of the 6K6-G output tube and ground, depending on the type of meter. (The more sensitive type should be connected across the voice coil.)
2. Turn the volume control to the maximum volume position and keep it in this position throughout the entire alignment procedure.
3. With the gang condenser in full mesh, set the pointer to the last mark on the right end of the dial scale.
4. If the pointer is only slightly off calibration, loosen the set-screw in the dial drive drum at the left side of the gang condenser and set the pointer to the last mark on the right end of the dial. (When the gang condenser is in full mesh, if the pointer is off calibration several dial divisions, release it from the pointer drive cord by spreading the clip on the pointer. Then slide the pointer along the cord until it is set to the last dial division on the right end of the dial. Holding it in place, check to see if the gang condenser is in full mesh, and tighten the pointer clip, being careful not to cut the cord. Place a drop of household or speaker cement on the cord and pointer clip to prevent the pointer from slipping.)

DUTY ANT. IN SERIES WITH SIG. GEN.	CONNECTION OF SIG. GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
1 MFD CONDENSER	CONTROL GRID OF 6A8-G TUBE	465 KC	ANY POINT WHERE IT DOES NOT AFFECT THE SIGNAL	1-2	1st I.F.	ADJUST FOR MAXIMUM OUTPUT. THEN REPEAT ADJUSTMENT.
400 OHM CARBON RESISTOR	ANTENNA LEAD (Blue Wire)	465 KC	ANY POINT WHERE IT DOES NOT AFFECT THE SIGNAL	3-4	2nd I.F.	ADJUST FOR MINIMUM OUTPUT USING A STRONG GENERATOR SIGNAL.
400 OHM CARBON RESISTOR	ANTENNA LEAD (Blue Wire)	1500 KC	TUNE TO 1500 KC GENERATOR SIGNAL	6	BROADCAST OSCILLATOR (Shunt)	ADJUST TRIMMER TO BRING IN
400 OHM CARBON RESISTOR	ANTENNA LEAD (Blue Wire)	1500 KC		7	BROADCAST ANTENNA (Shunt)	ADJUST FOR MAXIMUM OUTPUT.

# MODEL-R-4201

*Circuit, Chassis Layout  
and Socket Voltages  
on Data Sheet-67*

1938-39

1. Be sure that your set is connected to a good antenna system.
2. Turn on the set and allow it to operate at least one-quarter hour before setting up the push buttons.
3. Select the four nearby stations to which you wish to set up the buttons. Be sure to select nearby, power-stations, since weak signals will generally give poor results. Any button may be set to any desired station.
4. Pull off the entire button cap by grasping the button and pulling outward on it. When the button is removed, a round head adjusting screw will be exposed to view.

HOW TO SET UP THE PUSH-BUTTON TUNER

5. Insert a screw-driver in this screw and loosen it (about one turn counter-clockwise will be sufficient).
6. Keeping the screw-driver in the push button slot, PUSH AGAINST THE SCREW-DRIVER UNTIL THE PUSH BUTTON SHIRT IS FORCED ALL THE WAY IN. While the button is held in this position, grasp the tuning knob and tune in the desired station. Then retighten the adjusting screw, turning clockwise until reasonably tight.
7. The set-up for this button is now complete. Replace

WARNING: Do not attempt to turn the screw until it reaches a definite stop. Merely turn until you meet with appreciable resistance. To turn further may result in damage to the mechanism.

8. Set up the three remaining buttons in a similar manner.

TUNING CONTROL  
AJUSTING SCREWS  
VOLUME CONTROL  
AND  
ON-OFF  
SWITCH



PUSH BUTTONS REMOVED

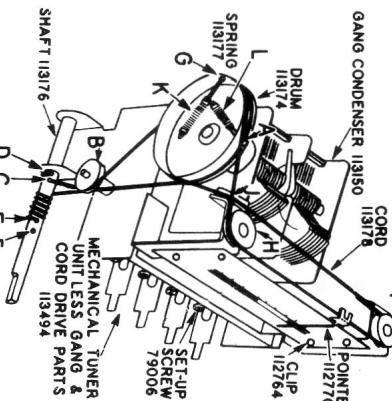


FIG. I

TO THREAD THE DIAL PINGER DRIVE CORD PROCEED AS FOLLOWS

1. Close the gang condenser and thread one end of the cord through eyelet G.
2. Carry the other end of the cord over the drum and front around pulley H and then across to pulley I and counter-clockwise around it.
3. Continue back to pulley J and down the front of the drum.
4. Carry the end of the cord on around the drum and through eyelet G.
5. Tie both ends extending through eyelet G to tension spring K. In so doing, allow enough slack in the cord so that when spring K is hooked in place in the drum, it will be extended only a very little. If the spring is extended too much, it will tend to make the push-button operate too hard because of overloading.
6. Set the dial pointer to the last dial division mark on the right and clip it to the cord. (Be sure the gang condenser is closed before clipping the pointer to the