

SETTING UP AUTOMATIC TUNING

MODEL F-1640

The Automatic Dial is shipped less the call letters so that call letters of stations desired by the customer may be installed.

TO INSTALL CALL LETTERS —

1. Remove the Automatic Dial Assembly in the right end of the control from the Control housing. It is installed in the control like a drawer and can easily be pulled out from the rear of the control.
2. Turn on the Receiver so that current is supplied to operate the Automatic Dial, but do not advance the volume.
3. Select and remove from the call letter sheets the station call letter tabs of five popular stations received locally and that come within the frequency range of the positions on the dial as shown in illustration for Model F-1640. Reference to the radio section of the local newspaper will be helpful.
4. If the section of the dial in which the tab marked "DIAL" is not at the indicator window, push the Automatic Station Selector until it is in position in the indicator window.
5. Push the Automatic Station Selector once more and No. 1 section of the dial will rotate to the front. Insert in this position the call letter tab of the station having the highest kilocycle frequency. Insert in front of the tab one of the small celluloid tabs which you will find attached to the call letter sheets.

FOR EXAMPLE — Stations may have been selected that operated on 1500, 1350, 1000, 850 and 700 kilocycles. The call letters of the station operating on 1500 kilocycles would be inserted in the No. 1 position in the dial.

6. Push the Station Selector again and No. 2 position on the dial will be in front. Insert in this position the call letter tab of the station having the second highest kilocycle frequency and the celluloid tab. Referring to the Example, we find this is a station operating on 1350 kilocycles.

7. Repeat in like manner the insertion of call letters in positions 3, 4 and 5 on the dial, installing the call letters in the order of their frequency.

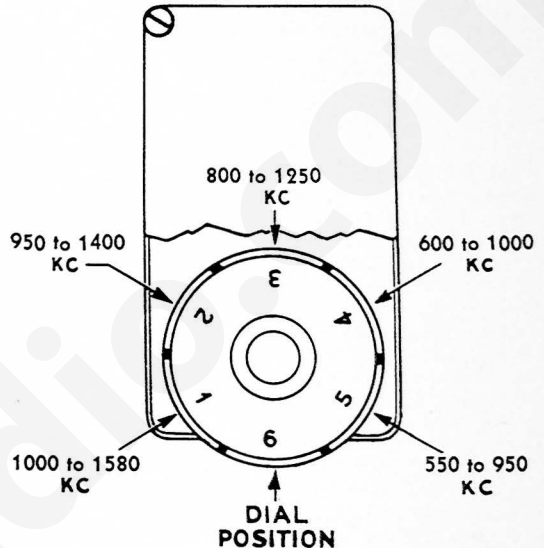
8. Replace the Automatic Dial Assembly in the Control Unit.

Before setting up the Receiver for automatic tuning, it is necessary to synchronize the Automatic dial to the Receiver as follows:

Turn on the Receiver and try to tune in a station with the Manual Tuning Control. If no station can be picked up, push the Automatic Station Selector until a position is found where stations can be tuned in. This is the "DIAL" position. Remove

WEAK SIGNAL FROM THE STATION SO THAT THE CIRCUIT WILL BE SHARPLY TUNED TO THE PARTICULAR STATION. BECAUSE OF THE STRENGTH OF THE SIGNAL FROM STRONG LOCAL STATIONS IT IS NECESSARY THAT THE ANTENNA ROD BE REMOVED FROM THE ANTENNA WHILE THESE ADJUSTMENTS ARE MADE SO THAT A MINIMUM OF SIGNAL WILL BE RECEIVED AND THUS ASSURE SHARP ADJUSTMENTS OF THE CIRCUITS.

1. Turn the Receiver "ON" and allow it to operate for TWENTY minutes. Remove the cover plate over the automatic



PHANTOM VIEW OF THE AUTOMATIC-DIAL

tuning adjusting screws. This plate is on the front of the Receiver and can easily be pried off.

2. Push the Automatic Station Selector until the word "DIAL" is at the Automatic Dial Window. Tune in the station whose call letters are in the No. 5 position on the dial (the lowest frequency station—see dial illustration), and note the program so that it can be identified. Push the Automatic Station Selector five times and this station's call letters will appear at the Automatic window.

3. With a small screwdriver, turn the No. 5 adjusting screw (see illustration for Model F-1640) in the left column to the right or left until that station is tuned in. Now adjust the corresponding screw in the right column until maximum volume is obtained. Make these adjustments carefully, as it may be easy to pass by the loudest point on some stations.

4. Press the Automatic Station Selector until "DIAL" again is at the Automatic window and tune in the station whose call letters are in the No. 4 position (the next highest frequency) on the Automatic dial. Press the Automatic Station Selector four times to bring the No. 4 station's call letters in view and adjust the No. 4 set of adjusting screws to this station.

Repeat this procedure until each of the five pairs of adjusting screws has been adjusted to its respective station.

It is NECESSARY that the setting of the adjusting screws be repeated in the order given to be sure they are properly set for maximum performance.

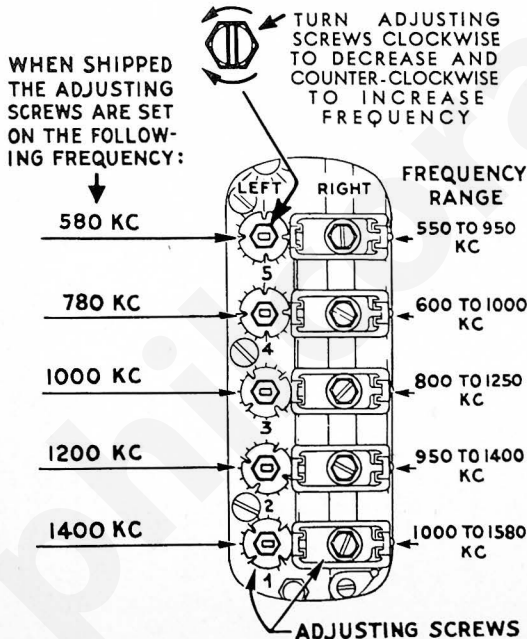
The call letters may be installed and the radio adjusted to the stations whose call letters are on the Automatic dial before the Receiver is installed in the car, but final adjustments to the adjusting screws must be made with the radio installed in the car and operating with the car antenna.

Be sure and save the unused call letters and give them to the owner. They may be needed at some future time if the radio is to be operated in a different area where the local stations are not the same.

If the Stations set up on the Automatic Tuning Dial should at some time tune in at the wrong position, the dial can be easily synchronized to the radio as explained above.

1400 KILOCYCLE ADJUSTMENT —

Tune the Receiver manually to a weak station at or near 1400 kilocycles on the dial. If there is no station at that point then turn the volume control up until atmospheric background noise is heard. Remove the LARGE snap button on the end of the Receiver and adjust the trimmer by rotating the trimmer nut left or right until the station or background noise is loudest.



VIEW OF AUTOMATIC ADJUSTING SCREWS

the Master Control Cable plug from the Receiver by squeezing the two springs on the plug and pulling out. Push the Automatic Station Selector until the word "DIAL" appears in the dial window. The Master Control Cable plug should then be replaced in its socket on the Receiver.

The adjusting screws in the Receiver can now be adjusted to the stations set up on the Automatic Dial. IT IS VERY IMPORTANT THAT THESE ADJUSTING SCREWS BE SET ON A