

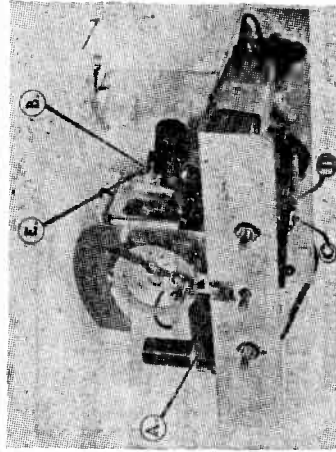
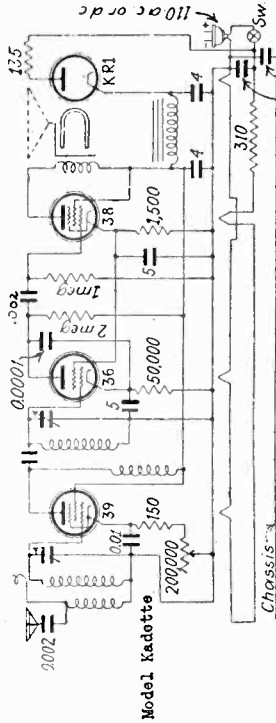
MODEL JS
Short Wave
Trimmer Data
MODEL Kadette
Schematic

INTERNATIONAL RADIO CORP.

Tune in a station around 1400 KC (215 meters).

Put the grid clips onto their respective grid caps.

Carefully readjust, without touching the dial, the trimmer (B) on the space-wound coil until maximum signal strength is obtained.



Set your local test oscillator to 1400 KC (215 meters).
 Remove the first detector oscillator tube from its socket and remove the grid clip from the second detector tube.

NOTE: The first detector oscillator tube is the 224 tube in the center stall of the tube shield. The second detector is the 224 tube nearest the pentode.

Put the grid clip from the first detector tube which has been removed onto the second detector grid cap and by turning the dial locate the carrier from your local oscillator. This crosses the grid leads and allows set to operate as a simple four tube tuned radio frequency set, the oscillator being entirely out of the circuit.
 Carefully adjust the two trimmers on the first R. F. and detector tubes to maximum signal strength and also adjust the dial at the same time so that the 1400 KC frequency actually tunes to the 1400 KC dial setting when maximum signal strength is had.

NOTE: The first R. F. trimmer is the CENTER trimmer on the variable condenser. The detector trimmer is the trimmer nearest the tube shield, also on the variable condenser.

Without changing the dial setting, insert the detector oscillator in its socket and connect all grid clips back to their original position.

Carefully adjust the oscillator trimmer to maximum signal strength.

NOTE: The oscillator trimmer is the trimmer nearest the dial on the top of the variable condenser.

The set is now properly adjusted only on the high frequency end of the dial all of which is done by the tuning condenser trimmers, but the padding now must be adjusted to assure tracking at the low frequency (long wave) end.

To adjust the receiver on the low frequency end of the dial, the following procedure is necessary:

1—Set your local oscillator to 650 KC (462 meters) and again switch the grid clip from the first detector oscillator tube to the second detector tube. When this switch is made always first remove the grid clip from the second detector tube.

2—Carefully turn your dial until the maximum signal strength is obtained from the local oscillator.

3—Without again turning the dial, put the grid clips of the first and second detector tubes on their respective grid caps.

4—Adjust the padding condenser (E) to maximum signal strength.

Instructions for Aligning and Balancing
MODEL JS RECEIVER

TO ALIGN THE JS RECEIVER ON SHORT WAVES

The service man should remember that when the receiver is thrown to short waves it no longer is a superheterodyne but is converted to a tuned R.F. circuit. However, as we have previously called the oscillator circuits by that name, we will continue to call this circuit the oscillator condenser and coil.

Under no circumstances are the detector and first R.F. trimmers found on the variable condensers to be changed when aligning the set on short waves.

Turn the short wave switch to the short wave position and allow the receiver to warm up.

Adjust the local oscillator to 3750 KC (80 meters).

Remove the grid clip from the first detector (middle screen grid tube) and substitute it for the grid clip of the second detector (224 nearest the 247).

NOTE: Use insulated screwdriver for all short wave trimmer adjustments.

Adjust carefully the antenna trimmer (A) found mounted on the antenna coil for maximum strength.

Adjust trimmer (C) mounted on the detector coil beneath the chassis for maximum signal strength.

NOTE: The short wave trimmer on the detector coil is the trimmer mounted nearest the grid end of the coil. The trimmer (D) mounted nearest the lugs on the ground end of the coil is used as a coupling capacity and should not be touched except when the receiver oscillates uncontrollably. Any adjustment of this coupling capacity necessitates the re-alignment of the entire set.

Connect the grid clip of the 1st and 2nd detector tubes to their respective grid caps and carefully adjust the oscillator coil trimmer on top of the variable condenser nearest the dial.

The set is now properly aligned to the high frequency (low wave) end of the band.

Set the local oscillator at 1660 KC (180 meters) and tune its carrier to be sure the set is working properly on the low frequency end of this band. As the coils are properly matched at the factory, no adjustment need be made if the receiver is properly trimmed at the high frequency end of the dial.

If it is necessary to change the oscillator trimmer from the previous setting obtained on the broadcast band, the variation must be compensated for by the trimmer (B) found on the space-wound coil. This is accomplished in the following manner:

Turn the switch to the long wave position.

After removing the second detector grid clip, put the grid clip from the first detector onto the second detector grid cap.