

MODELS 877 & 889
TECHNICAL INSTRUCTIONS

A good output meter should be used in all alignment adjustments.

I. F. ALIGNMENT

From a good signal generator, connect the proper leads, one to the radio chassis, and the other thru a .1 mfd. condenser to the grid cap of the 6K8, with the tube's grid lead still in place. Set the radio dial to 1720 K.C. and the signal generator to 456 K.C. With the set's volume control full on, increase the generator output until the signal is heard in the radio speaker. Adjust the I. F. trimmers for maximum output, decreasing the generator output as the radio output increases.

LONG WAVE ALIGNMENT

Connect the signal generator lead thru a .0002 mfd. condenser as dummy antenna, to the "A" terminal, with the metal strip connected across A₂ and G. Set the dial and generator to 362 K.C. and adjust the oscillator trimmer for maximum output. Align the L.W., R.F. and antenna trimmers at 320 K.C.

Align the L.W. oscillator padder at 200 K.C. by adjusting the dial and padder together. Check the alignment again at 320 K.C.

BROADCAST BAND ALIGNMENT

Using the .0002 mfd. condenser as dummy antenna, adjust the B.C. oscillator trimmer at 1720 K.C. for maximum output. Align the R.F. and antenna trimmers at 1400 K.C. Align the B.C. oscillator padder at 600 K.C. by adjusting the dial and padder together. Check the alignment again at 1400 K.C.

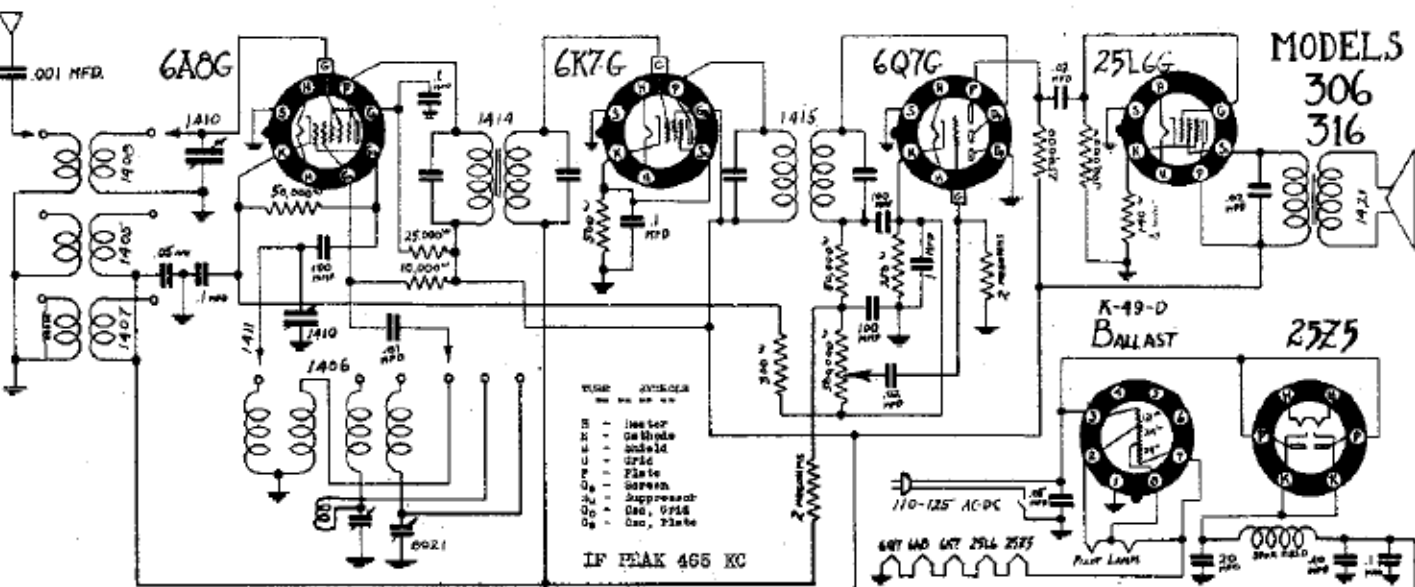
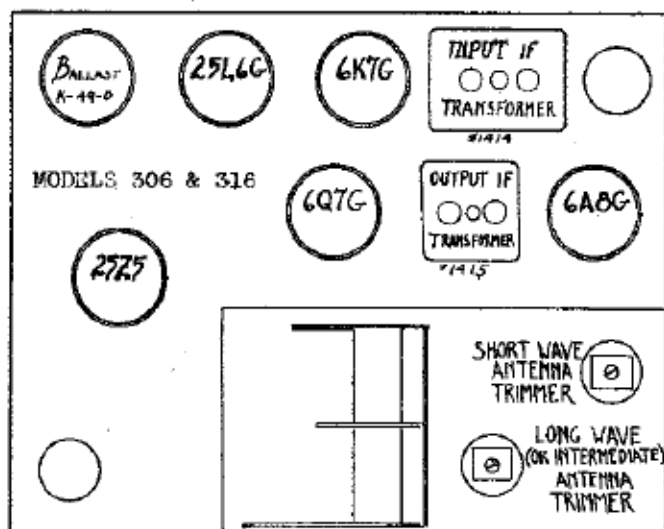
INTERMEDIATE BAND ALIGNMENT

Using a 400 ohm resistor as dummy antenna, adjust the Intermediate Band oscillator trimmer at 6.7 M.C. and the R.F. and Antenna trimmers at 6 M.C.

Check for alignment at 2.2 M.C.

SHORT WAVE BAND ALIGNMENT

Using the 400 ohm resistor as dummy antenna, adjust the S.W. oscillator trimmer at 24.5 M.C., and the R.F. and Antenna trimmers at 22 M.C. Check for alignment at 8 M.C.



MODELS 487, 456, 477, & 889

TECHNICAL INSTRUCTIONS

A good output meter should be used in all alignment adjustments.

I. F. ALIGNMENT

From a good signal generator connect the proper leads, one to the radio chassis, the other thru a .1 mfd. condenser to the grid cap of the 6K8, with the set's grid lead still in place. Set the radio dial to 1720 kilocycles and the signal generator to 456 K.C. With the set's volume control "full on," increase the generator output until the signal is heard in the radio speaker. Adjust I. F. trimmers for maximum output, decreasing the generator output as the speaker output increases.

B. C. ALIGNMENT

1. Connect the signal generator lead thru a .0002 mfd. condenser as dummy antenna to the "A1" terminal, with the metal strip connected across A₂ and G. Set the signal generator and radio dial to 1720 K.C. and adjust the B.C. oscillator trimmer for maximum output.

2. Set the signal generator and radio dial to 1400 K.C. and adjust the B.C. R.F. and ANT. trimmers for maximum output.

3. Set the signal generator to 600 K.C. and the radio dial to approximately 600 K.C., and adjust the B.C. oscillator padder for maximum output by adjusting dial and pad together.

Check the alignment again at 1400 K.C.

INTERMEDIATE BAND ALIGNMENT

Connect the signal generator lead thru a 400 ohm resistor as dummy antenna to A1. Set the dial and generator to 6700 K.C. and adjust the P.B. oscillator trimmer for maximum output. Adjust the R.F. and ANT. trimmers at 6000 K.C. and check for alignment at 2200 K.C.

SHORT WAVE ALIGNMENT

Still using the 400 ohm resistor as dummy antenna, adjust the S.W. oscillator trimmer at 24.5 M.C. on dial and generator. Adjust the R.F. and ANT. trimmers at 22 M.C. and check for alignment at 8 M.C.

MODELS 456, 465, 477, 856, 877 & 889

PUSH BUTTON OPERATION

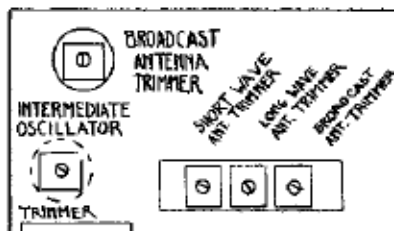
Six Push Button Station Selectors are incorporated in this receiver. Each button may be adjusted to select any station or frequency in the Broadcast Band. To adjust each button, perform the following operations:

1. Tune in a desired station with the Selector knob.
2. Twist the Push Button you want set up for this station, to the left about one full turn to loosen the mechanism.
3. Push this button in as far as it will go, while still holding the Selector knob firmly so the station will not be detuned.
4. With the button pressed all the way in, twist it to the right until it is tight and then release it.

Follow this procedure with the other five buttons, setting each for a different station.

Now, when any Push Button is pressed, the station for which that button is set, should appear perfectly tuned in. If it is not perfectly tuned, repeat the above procedure until satisfactory results are obtained.

Select the Call Letter Tabs to correspond to the stations the buttons are set for, and insert them in places provided above each button.



ALIGNMENT
ALIGN IF TRANSFORMERS AT 455 Kilocycles.
ALIGN BAND 8 AT 1400 KC. (218 METERS) BY ADJUSTING THE ANTENNA AND OSCILLATOR TRIMMERS. ADJUST BC PADDER AT 500 METERS.
ALIGN BAND 4 AT 20 METERS BY ADJUSTING THE ANTENNA AND OSCILLATOR TRIMMERS FOR MAXIMUM RESPONSE.
ALIGN BAND 6 FOR MODEL 306 AT 5 Kilocycles BY ADJUSTING INTERMEDIATE ANTENNA AND OSCILLATOR TRIMMERS FOR MAXIMUM RESPONSE.
ALIGN BAND 6 FOR MODEL 316 AT 900 METERS BY ADJUSTING LW ANTENNA AND OSCILLATOR TRIMMERS. ADJUST LW PADDER AT 1000 METERS.
MAKE ALL ADJUSTMENTS FOR MAXIMUM RESPONSE ON OUTPUT METER—USING SIGNAL GENERATOR.

