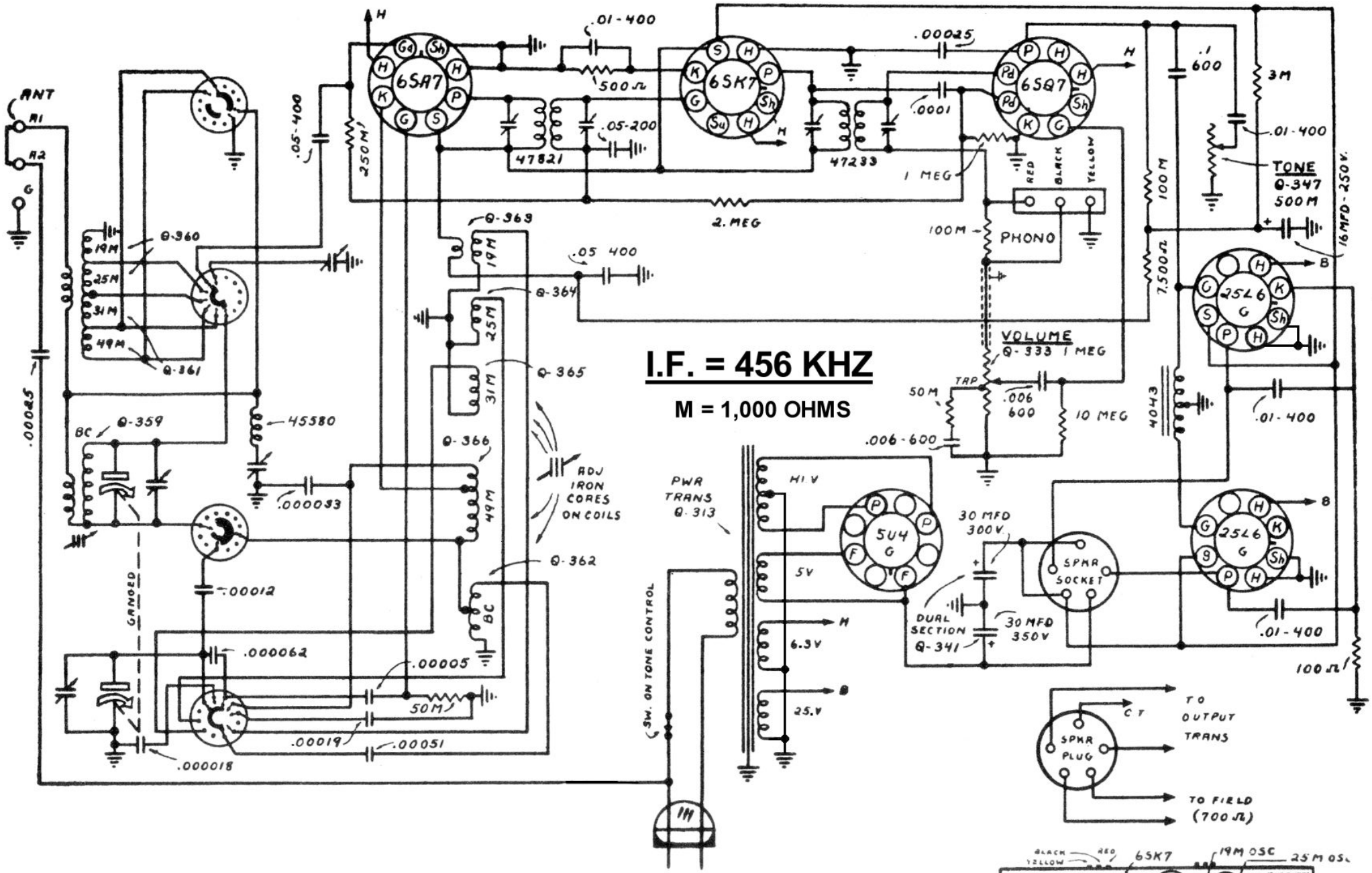
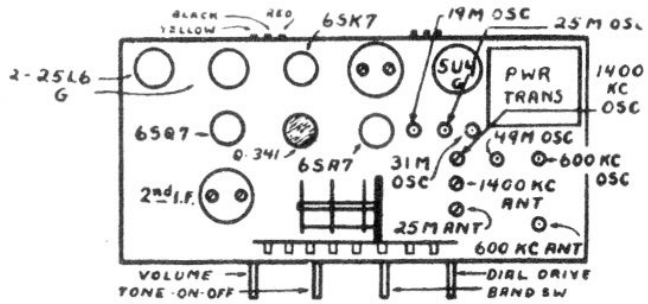


Crosley 1340 & 2340 A.C. Receiver



RCC - Crosley Data Sheet 10 - 1939-40

Crosley 1340 & 2340 Alignment Procedure

Setting the Push Buttons:—

The push buttons are easily and accurately set from the front of the receiver. It is not necessary that all the buttons be set at the same time. Loosen the set screws on the keys but do not remove them. Determine the favourite broadcasting stations whose call letters are to be placed in the buttons. By means of the manual tuning knob, tune-in AS ACCURATELY AS POSSIBLE the station having the highest frequency—that is the station that is tuned-in nearest the 1500 K.C. end of the dial. Then push the front key all the way down, and while you hold it in that position SECURELY TIGHTEN THE SET SCREW.

The push button system is now set for the first station. Follow through with the same procedure, setting the other stations in the order of their frequency (kilocycles). Detach the call letters from the list supplied with your receiver and press them into the openings in the front of the push buttons. Thin pieces of clear celluloid are supplied in a small envelope and should be snapped into place over the call letters to protect and hold them in place.

Alignment

1. Tuning I.F. Amplifier to 456 Kilocycles:—

(a) Connect the output of the signal generator through a .1 mfd. tubular condenser to the Antenna post (A1) and the ground lead of the signal generator to the radio chassis.

(b) Turn band switch to the broadcast band (extreme left).

(c) Turn the station selector so that the tuniag condenser plates are completely in mesh and turn the volume control on full.

(d) Set the signal generator to 456 kilocycles.

(e) Short out the rear section (Osc.) of the gang condenser.

(f) Adjust both trimmers located on top of the 2nd I.F. transformer for maximum output.

(g) Adjust both trimmers located on top of the 1st I.F. transformer for maximum output.

(h) Check operations (f) and (g) for more accurate adjustments.

ALWAYS USE THE LOWEST SIGNAL GENERATOR SETTING THAT WILL GIVE A REASONABLE OUTPUT.

Remove temporary short from rear section of gang condenser.

2. I.F. Rejector Adjustment:—

With the signal generator connected to the chassis as above lift chassis on its side and adjust the single trimmer condenser under the chassis for MINIMUM output.

Note:—In some cases it is possible to get a more accurate adjustment on this I.F. rejector trimmer by removing the signal generator ground from the chassis.

3. Broadcast Band Alignment:—

When aligning the broadcast band use a .00025 mica condenser for the dummy antenna and the ground side of the signal generator connected to chassis.

(a) Turn band switch to broadcast position (extreme left).

(b) Turn station selector until pointer is in position to receive a 1400 kilocycle signal.

(c) Set signal generator to 1400 kilocycles.

(d) Adjust B.C. 1400 K.C. Osc. shunt trimmer to receive the 1400 K.C. signal.

(e) Adjust B.C. 1400 K.C. Ant. shunt trimmer for maximum output.

(f) Turn station selector until pointer is in position to receive a 600 kilocycle signal.

(g) Set signal generator to 600 kilocycles.

(h) Adjust 600 K.C. Osc. core for the 600 kilocycle signal.

(i) Adjust 600 K.C. Ant. core for maximum output.

(j) Return to the high frequency point (1400 K.C.) and readjust trimmers. This will be only a slight adjustment and should not affect the low frequency end.

4. Short Wave Bands:—

Accurate signals are required for the centre of each band for alignment purposes. If a check on calibration across the band is desired, signal must be available.

When aligning the short wave bands use a 250-ohm carbon resistor for the dummy antenna.

(a) The 49 metre Osc. coil **must** be adjusted first, this is the second position from the left on the band switch.

(b) Set dial pointer to 6.12 megacycles.

(c) Adjust 49 metre Osc. to receive the 6.12 megacycle signal. Two peaks will be noticed when adjusting the coil. **USE THE PEAK FARTHEST IN.**

(d) The 25 metre Osc. coil must now be adjusted. This band is the fourth position from the left on the band switch.

(e) Set dial pointer to 11.8 megacycles.

(f) Adjust 25 metre Osc. to receive the 11.8 megacycle signal. Two peaks will be noticed when adjusting the coil. **USE THE PEAK FARTHEST OUT.**

(g) With band switch still set in the 25 metre position, adjust B.S. Antenna trimmer at 11.8 megacycles. (Rock tuning condenser while performing this operation.)

(h) The 19 metre Osc. coil must now be adjusted. This band is the fifth position from the left on the band switch.

(i) Set dial pointer to 15.23 megacycles.

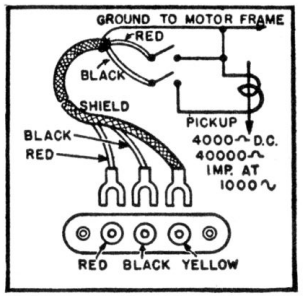
(j) Adjust 19 metre Osc. coil to receive the 15.23 megacycle signal. Two peaks will be noticed when adjusting this coil. **USE THE PEAK FARTHEST OUT.**

(k) The 31 metre Osc. coil must now be adjusted. This band is the third position from the left on the band switch.

(l) Set dial pointer to 9.56 megacycles.

(m) Adjust 31 metre Osc. coil to receive the 9.56 megacycle signal. Two peaks will be noticed when adjusting this coil. **USE THE PEAK FARTHEST OUT.**

Phonograph Pick-Up Connection for Crosley Models 1340 and 2340:—



When external Phono-Radio switch is not desired a jumper wire should be connected from RED to yellow. The two wires from the Phono pick-up are then connected to the BLACK and YELLOW terminals. To receive Radio Reception it is then necessary to remove the pick-up and the jumper wire between the RED and YELLOW terminals.