

Crosley Corp.

Model: 1018

Chassis:

Year: Pre August 1939

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

Riders Volume 10 - CROSLEY 10-30

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MODEL 1018

Voltage, Alignment Drive Data, Notes, Tuner

CROSLEY CORP.

WAVE TRAP

Some chassis of this model are equipped with a wave trap for the purpose of eliminating interference from code stations which operate on a frequency of approximately 455 kilocycles. This assembly is located on the underneath side of the chassis and consists of a coil, a fixed condenser and a trimmer condenser as illustrated by dotted lines in the Wiring Diagram, Item 63, Fig. 1.

The wave trap should not be adjusted until all other adjustments have been made. To make the adjustment, feed a 455 kilocycle signal from the signal generator through a .0025 mid. condenser into the antenna terminal of the receiver. With the band selector switch turned to the Broadcast Band position, the gang condenser open and the volume control full on, adjust the trimmer condenser on the wave trap for minimum output.

Should the interfering station be operating on a frequency of slightly more or less than 455 kilocycles, the exact frequency should be determined for the alignment signal generator. Then, instead of setting a 455 kilocycle signal into the wave trap, the exact frequency of the interfering signal should be used. If it is not possible to determine the exact frequency of the interfering signal, the antenna may be attached to the receiver and the receiver tuned to the position where the interfering signal is most noticeable. Then adjust the wave trap for minimum interference.

REPLACING DIAL DRIVE CORD

To replace the dial drive cord the following procedure should be carefully followed:

- 1—Remove the chassis from the cabinet.
- 2—Remove the dial glass, the pointer, then the dial mounting bracket.
- 3—Remove the broken cord and the tension spring.
- 4—Double a 48" length of drive cord. Tie a knot in the cord to form a loop about 3/4" long. Insert the two ends through the eyelet in the pulley on the gang from the inside. Hook the small loop over the catch on the pulley opposite the eyelet, then close the gang.
- 5—Bring one end of the cord forward and down over the top of the lower idler pulley. Continue the cord on down to the left of the manual drive shaft, then under and around to the top of the pointer shaft pulley, crossing in front of cord to manual drive shaft. Make one and one half turns around pulley in a counter-clockwise direction. Insert end of cord through eyelet in pulley rim, eyelet should be to the left and in line with the pointer shaft.
- 6—Bring the other end of drive cord back and under pulley on the gang, then up and over the top idler pulley. Continue down and under pointer drive pulley for 1/2 turn, insert end through eyelet. The ends in a secure knot, then hook one end of tension spring through knot and hook the other end on catch in pulley. The tension spring should be stretched to approximately 3/4" length. Kettle knot if necessary to give proper tension on drive cord.

Cut off excess cord and if any bees wax is available apply a small amount to the knot as an added precaution against slipping.

MODEL 1018

SIGNAL INPUT FREQUENCIES

Shunt Align.	Series Align.
1400 Kilocycles	600 Kilocycles
6000	
18 Mc/cycles	

.0025 mid. condenser should be connected in series with the output lead of the signal generator and for the High Frequency and Police Bands a 400 ohm carbon resistor should be used in place of the condenser.

Each band should first be SHUNT ALIGNED and then SERIES ALIGNED where provision is made for series alignment (Broadcast Band). The band selector switch should be set for the band being aligned and the signal generator should be set to the frequency indicated for each adjustment, (d) below.

(a) With the station selector adjusted so that the tuning condenser plates are completely out of contact, turn the manual trimmer until the MINIMUM CAPACITY SIGNAL (d) is heard (it is not necessary that the receiver tune through this signal). The SHUNT ALIGNMENT SIGNAL (d) is heard with maximum output. Then adjust the "ANT" about trimmer for maximum output. Readjust the station selector slightly so that the speaker's signal is tuned in with maximum output. Then adjust the "ANT" trimmer. DO NOT READJUST THE OSCILLATOR TRIMMER.

NOTE: When shunt aligning the Police and High Frequency Bands, care must be exercised so that the circuits will be aligned on the correct frequency rather than the image frequency which is approximately 910 kilocycles less than the fundamental. To check on this, increase the output of the signal generator ten times or more and try to tune in the signal both at the dial and at approximately 910 kilocycles less than the correct frequency. If the circuits have been properly aligned the signal can be tuned-in at both positions but much stronger at the correct frequency.

(c) To align the series trimmer (See Fig. 2), set the signal generator to the frequency indicated below (d) and then tune-in this signal with the station selector for maximum output. To obtain the best adjustment for the series trimmer, it will be necessary to rotate the station selector back and forth slightly while adjusting the trimmer for maximum output. Minor tolerances variations in series alignment at 2500 kilocycles in the Police Band and a 6000 kilocycles in the High Frequency Band may be compensated for by slight repositioning of the grid lead of the antenna coil in the Band affected.

If the various circuits of this receiver have to be adjusted it may be necessary to reset the push button tuning system, after the adjustments have been made. The push buttons are set from the front of the receiver. To reset a push button remove the call letter and celluloid protector from the bottom of the hole. Loosen the set screw at the bottom of the hole. Tune-in with the manual tuning knob AS ACCURATELY AS POSSIBLE the station whose call letters were in that button. Push the button all the way down and while you hold it in that position securely tighten the set screw. Replace station call letter and celluloid protector in button.

Repeat the above procedure for the rest of the push buttons that have to be set. Remember—The accuracy of the push buttons depend entirely upon HOW ACCURATE YOU TUNE-IN THE STATION WHILE SETTING THEM.

(D) SIGNAL INPUT FREQUENCIES

Shunt Align.	Series Align.
1400 Kilocycles	600 Kilocycles
6000	
18 Mc/cycles	

American Broadcast Band
Police & Amateur Band
High Frequency Band

SOCKET VOLTAGES

The tube socket voltages are measured from the tube socket contacts to the chassis with 1000 ohm per volt, 500 volt D. C. voltmeter (except filaments) with the receiver in operating condition and no signal input. The volume control should be turned full on, the tone control should be turned to the TREBLE position (counter-clockwise) and the tuning condenser should be turned to the minimum capacity position. The filament voltages should be measured with an accurate low range A. C. voltmeter (approximately 0-10 volts). Readings may vary plus or minus 10% of values given.

TUBE SOCKET VOLTAGE READINGS

Tube	Function	H	P	S	C	K	Ga	Gc	Ga
6K6G	Oscillator	6.3	147	—	—	—	—	—	—
6AG5	Modulator	6.3	224	110	—	—	—	—	110
6UF6	1st I.F. Amplifier	6.3	174	—	—	—	—	—	—
6CG6	Diode Detector	6.3	20	—	—	—	—	—	—
6CS6G	AFC Diode	6.3	0	—	—	—	—	—	—
6CS6G	AFC Diode	6.3	0	—	—	—	—	—	—
6K5G	1st A.F. Amplifier	6.3	190	—	—	—	—	—	—
6K5G	Output	6.3	220	—	—	—	—	—	—
6K5G	Output	6.3	220	—	—	—	—	—	—
5Y3G	Rectifier	5.0	270	—	—	—	—	—	—

Power consumption approximately 85 watts at 117.5 volts. Standby 10 watts. Voltage drop across speaker field 60 volts.

50 CYCLE POWER TRANSFORMER ADJUSTMENT

Receivers equipped with a 50 cycle power transformer have a "high" and "low" voltage tap on the under side of the chassis. The "high" voltage tap (BLACK) and the "low" voltage lead (ORANGE) are connected to a terminal strip near the transformer.

The voltage range of the "low" tap of the 95-130 volt transformer is from 95 to 112 1/2 volts and the "high" tap is from 112 1/2 to 130 volts. The range of the "low" tap of the 190-260 volt transformer is from 190 to 225 volts and the "high" tap is from 225 to 260 volts. The accompanying illustration shows the connections for changing from high to low or low to high line voltage. Note the "jumper" wire which is attached to the terminal at which one side of the power cord is attached. The other end of this jumper wire should be connected to the ORANGE or BLACK lead of the transformer to the

adjusted at the factory and normally should need no further adjustment. However, if it is definitely known that an adjustment is necessary the circuits may be properly aligned with the use of a modulated signal generator and an output meter.

Connect the output meter to the plates of the two 6K6G output tubes. Be certain the meter is protected from D. C. by a condenser (1 mfd. or larger—not electrolytic) in series with one of the leads.

(a) Connect the output of the signal generator through a .02 mid. condenser to the top cap of the 6AG5 tube, leaving the tube's grid clip in place. Connect the ground lead from the signal generator to the ground terminal of the receiver. KEEP THE GENERATOR LEADS AS FAR AS POSSIBLE FROM THE GRID LEADS OF THE OTHER SCREEN GRID TUBES.

(b) Set the station selector so that the tuning condenser plates are completely out of mesh. Turn the volume control knob to the right (ON) and turn the tone control knob to the left (TREBLE).

(c) Set the band selector switch on the Broadcast Band.

(d) Set the signal generator to 455 kilocycles.

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

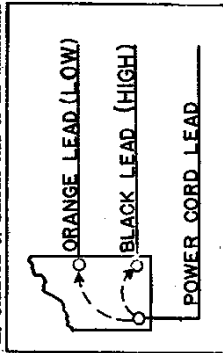
(f) Adjust both trimmers located on top of the 1st I.F. transformer for maximum output.

(g) Check operations (e) and (f) for more accuracy.

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

Aligning R. F. Amplifier

When aligning the R.F. amplifier the output lead from the signal generator is connected to the "ANT" terminal of the receiver. For the Broadcast Band a



primary, according to the line voltage the receiver is to be used on.

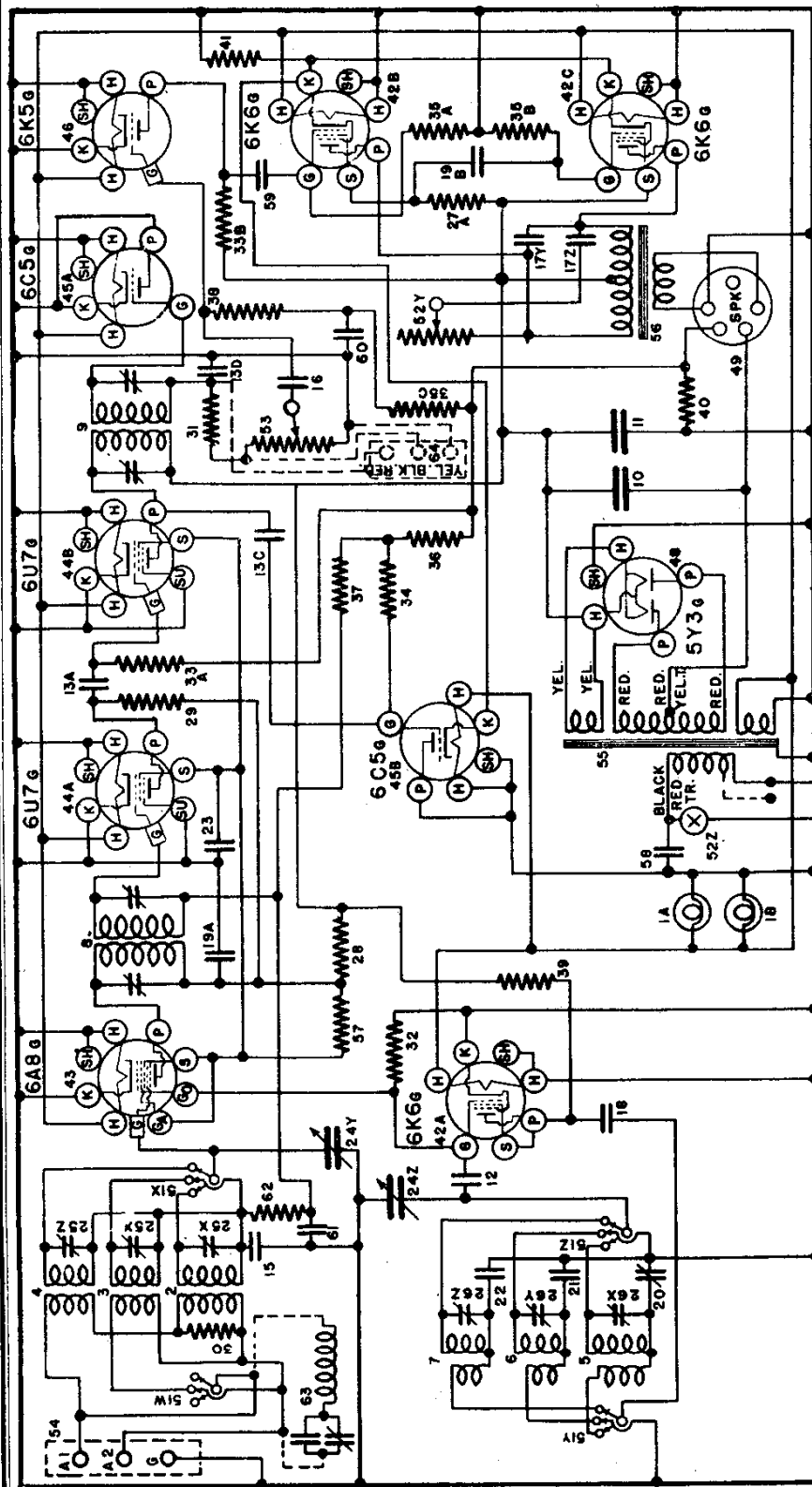
NOTE: Any change made in the power supply circuit of the receiver should be plainly stamped or otherwise permanently recorded on the rear of the chassis.

ALIGNMENT PROCEDURE

All the circuits in this receiver are very accurately

CROSLLEY CORP.

MODEL 1018
Schematic, Notes



SPECIFICATIONS

This model Crosley is a ten-tube superheterodyne receiver featuring Push Button Tuning, temperature compensated B-C oscillator, (to prevent station drift) push pull output and many of the latest improvements in circuit design. It is designed for operation on A. C. circuits as specified on the model label.

The tuning range is from 535 to 20,000 kilocycles and 455 K.C. I.F. is divided into three bands as follows:
 535-1725 Kilocycles or 560-174 Meters (American Broadcast Band)
 1900-6400 Kilocycles or 158-46.8 Meters (Police & Amateur Band)
 6.2-20.0 Megacycles or 48.8-15.0 Meters (Foreign Band)

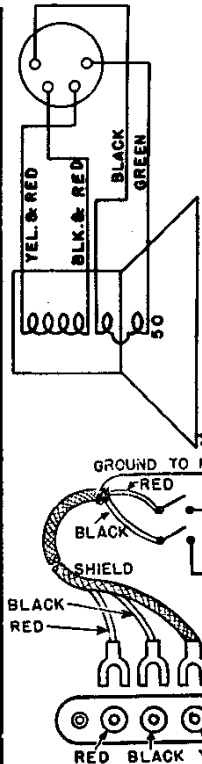


Fig. 4 Phonograph Pickup

FIG. 1—WIRING DIAGRAM

OCTOBER, 1938

MODEL 1018
Socket, Trimmers, Parts

CROSLEY CORP.

566BP18 "M" 44275	Speaker, Spec. No. 1-D-1052 V. C. and Conn Assy. for 566BP18 "M" Spkr.
440494	Field Coil Assy. for 566BP18 "M" Spkr.
44024B	Band Selector Switch
C27	Line Switch
44081	Tone Control—1 Meg.
26719	Volume Control (100,000 Ohm)
44101	Ant. and Gnd. Term. Assy.
44104	Power Trans., 110 V. 60 Cy.
44105	Power Trans., 110 V. 50 Cy.
44103	Power Trans., 230 V. 25 Cy.
G77	Output Transformer
24628	Resistor, 10,000 Ohm 1W.
4921C	Condenser, .01 Mf. 400 V.
30488	Condenser, .02 Mf. 400 V.
34712	Condenser, .25 Mf. 150 V.
3621	Condenser, .02 Mf. 250 V.
35640	Wave Trap
G164—32004	Wave Trap (100,000 Ohm 1/4W.)

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998	999	1000	1001	1002	1003

1AB	W	43567	Dial Light Bulb
2	W	45398	Dial Light Socket Assy.
3	G66	32000	Ant. Coil—535—850 Kc.
4	G168	32000	Ant. Coil—1850—6600 Kc.
5	G169	32002	Ant. Coil—52—1850 Kc.
6	G168	32002	Osc. Coil—1850—6600 Kc.
7	G170	32002	Osc. Coil—6.2—22 Mc.
8	G162	32004	1st I-F Assembly—455 Kc.
9	G165	32004	2nd I-F Assembly—455 Kc.
10	W	44054	Condenser, 30 Mf. 300 V.
11	W	36057B	Condenser, 40 Mf. 300 V.
12	G2	34002	Condenser, .00035 Mf. Molded
13	G2	34002	Condenser, .0001 Mf. Molded
14	W	35936	Condenser, .05 Mf. 200 V.
15	W	41461	Condenser, .014 Mf. 200 V.
16	W	31062	Condenser, .05 Mf. 400 V.
17	W	31062	Condenser, .04 Mf. 400 V.
18	W	35189	Condenser, .04 Mf. 400 V.
19	W	26615	Condenser, .05 Mf. 400 V.
20	G23	30769	B-C Osc. Series Trimmer (.520 Mmf.)
21	G20	34000	H-F Osc. Series Cond. (.160 Mmf.)
22	W	22958	Condenser, 1 Mf. 400 V.
23	W	33001	2 Sect. Gang Cond.
24	W	45393A	Dial Face (Glass)
25	W	44262	Ring—Dial Support (Cardboard)
26	W	44263	Arc—Dial Support (Cardboard)
27	W	45387A	Mask—Dial (Metal)
28	W	4119C	Dial Mtg. Bracket
29	W	40486	Shaft (Dial Wand)
30	W	40486	Shaft—Pointer Mtg.
31	W	40486	Shaft—Pointer Mtg.
32	W	45630	Retaining Ring (Pointer Shaft)
33	W	50325A	Pulley and Hub Assy. (Pointer Shaft)
34	G10	43554	Pulley, Gear and Hub Assy.
35	G11	43554	Pulley, Gear and Hub Assy.

51	52	53	54	55
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