Crosley Corp.

	Model: 716	Chassis:	Year: Pre October 1937
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		

Resources
Riders Volume 6 - CROSLEY 6-24
Riders Volume 8 - CROSLEY 8-29
Riders Volume 8 - CROSLEY 8-30

MODEL 715,Corsair
Chassis,Parts

CROSLEY RADIO CORP.

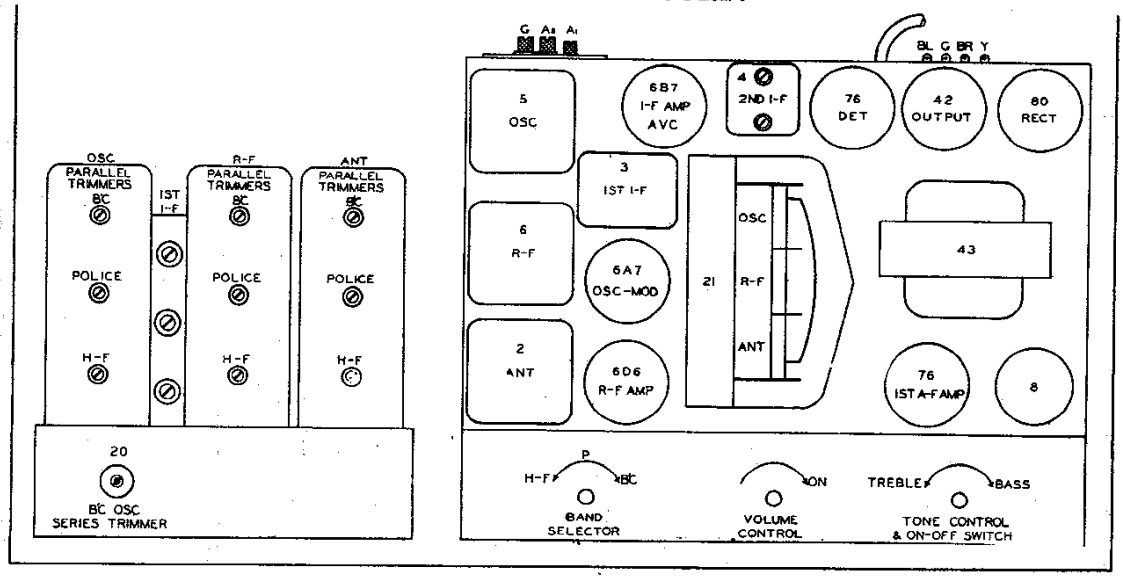


Fig. 2. Side And Top Views 715

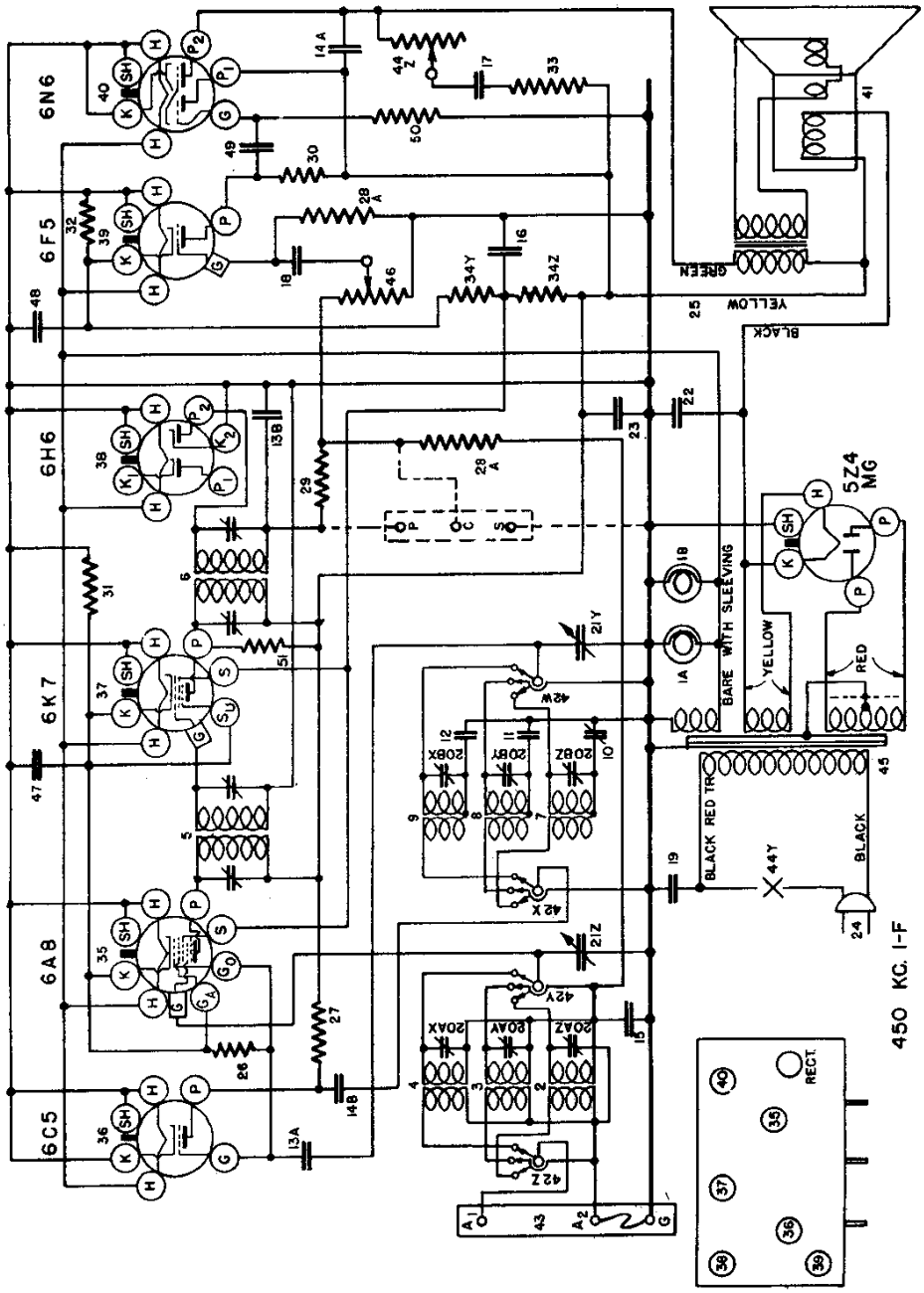
Figures in first column refer to parts shown in diagrams.

Item No.	Part No.	Description
1A	G4 —27134	Dial Light Bracket Assembly.
1B	G4 —27134	Dial Light Bracket Assembly.
2	G50—32000	Ant. Coil Assembly complete.
	G44—32000	Ant. Coil Broadcast Band.
	G45—32000	Ant. Coil Police Band.
	G46—32000	Ant. Coil S. W. Band.
	W —36032	Trimmer Condenser.
	G6 —36031	Support Base Assembly.
	G4 —36031	Coil Shield Assembly.
3	G47—32004	1st. I. F. Trans. Assembly.
4	G46—32004	2nd. I. F. Trans. Assembly.
5	G42—32002	Osc. Coil Assembly complete.
	G36—30202	Osc. Coil B. C. Band.
	G37—32002	Osc. Coil Police Band.
	G38—32002	Osc. Coil S. W. Band.
	W —36032	Trimmer Condenser.
	G7 —36031	Support Base Assembly.
	G5 —36031	Coil Shield Assembly.
6	G29—32001	R. F. Coil Assembly complete.
	G23 32001	R. F. Coil B. C. Band.
	G24—32001	R. F. Coil Police Band.
	G25—32001	R. F. Coil S. W. Band.
	W —36032	Trimmer Condenser.
	G6 —36031	Support Base Assembly.
	G4 —36031	Coil Shield Assembly.
7Z, 7Y, 7X	W —36056	Condenser, 8 Mfd. 450 Volt. Condenser, 4 Mfd. 350 Volt. Condenser, 4 Mfd. 250 Volt.
8	W —36055	Condenser, 35 Mfd. 450 Volt.
9	G7 —34000	Condenser, 0.00145 Mfd.
10	G12—34000	Condenser, 0.004725 Mfd.
11	W —30805	Condenser, 0.01 Mfd., 400 Volt.
12A	G2 —34002	Condenser, 100 Mmf.
12B	G2 —34002	Condenser, 100 Mmf.
12C	G2 —34002	Condenser, 100 Mmf.
13Z, 13Y, 14Z, 14Y	W —25537A / W —31052	Condenser, 0.001 Mfd., 400 Volt. Condenser, 0.03 Mfd., 400 Volt. Condenser, 0.004 Mfd., 400 Volt. Condenser, 0.05 Mfd., 400 Volt.
15	W —32378	Condenser, 0.01 Mfd., 400 Volt.
16	W —23191A	Condenser, 0.01 Mfd., 400 Volt.
17A	W —32379	Condenser, 0.02 Mfd., 200 Volt.
17B	W —32379	Condenser, 0.02 Mfd., 200 Volt.
18	See 19B	
19A	W —30321	Condenser, 1.0 Mfd., 160 Volt.
19B	W —30321	Condenser, 1.0 Mfd., 160 Volt.
20	G10—33005	Trimmer Condenser, 5 plate.
21Z, 21Y, 21X	G33—33002	Var. Tuning Condenser, 3 Gang.
	MG21—36045	Dial Drive Assembly.
	W —37198	Dial Pointer only.
	W —32293	Dial Pointer Nut (2 used).
	C —36088	Dial Indicator Plate.
22	B —30375A	Cord and Plug.
23	—22831	Resistor, 15,000 Ohms.
24	—22196	Resistor, 20,000 Ohms.
25	W —21875	Resistor, 100,000 Ohms.
26A	—23403	Resistor, 150,000 Ohnms.
26B	—23403	Resistor, 150,000 Ohms.
26C	—23403	Resistor, 150,000 Ohms.
27	—21455	Resistor, 300,000 Ohms.
28A	—23785	Resistor, 500,000 Ohms.
28B	—23785	Resistor, 500,000 Ohms.
29A	—21454	Resistor, 1 Megohm.
29B	—21454	Resistor, 1 Megohm.
30	—26577	Resistor, 3 Megohm.
31Z, 31Y	W —35963	Resistor, 8,500 Ohm. Resistor, 25,000 Ohm.
32	G6 —28807	Socket, 80.
33A	G80—28807	Socket, 76.
33B	G80—28807	Socket, 76.
34	G75—28807	Socket, 6D6.
	W —35774	Tube Shield Base.
	W —35772	Tube Shield Half.
	W —35773	Tube Shield Cap.
35	G25—28807	Socket, 42.
36	G47—28807	Socket, 6A7.
	W —35774	Tube Shield Base.
	W —35772	Tube Shield Half.
	W —35773	Tube Shield Cap.
37	G48—28807	Socket, 6B7.
	W —35774	Tube Shield Base.
	W —35772	Tube Shield Half.
	W —35773	Tube Shield Cap.
38	318-BL-18 / 518-CL-22	Speaker.
39 UtoZ	—36058B	Band Change Switch
40	G27—26719	Ant.-Grd. Terminal.
41	G5 —31128	Speaker Terminal.
	W —34627	Terminal Board Insulator.
	W —34628	Terminal Board Cover.
42Z, 42Y	—36062	Tone Control. On-Off Switch.
43	G6 —30745	Power Transformer, 60 Cy., 110 V.
	G7 —30745	Power Transformer, 25 Cy., 110 V.
	G8 —30745	Power Transformer, 25 Cy., 220 V.
44	—36060	Volume Control.
45	See 12C	
46	—21876	Resistor, 10,000 Ohms.
	W —34678B	Knob, Band Change.
	W —31585B	Knob, Controls.
	B —33528C	Escutcheon.
	W —33984	Escutcheon Gasket.
	W —36312	Band Change Switch Plate.
	W —36309	Band Change Indicator, Celluloid.
	W —36313	Tone Control Plate.
	—35922	Grille Cloth, 5N Cabinet.
	—35863	Grille Cloth, 5D Cabinet.

MODEL 716
Schematic, Socket
Voltage

CROSLEY RADIO CORP.

September, 1936 SALES MODELS 744 and 745 **CHASSIS 716**



Tube	Where Used	H	P	P2	S	G	K	Go
6C5	Oscillator	6.3	165	—	—	0	0	—
6A8	Modulator	5.3	270	—	120	0	2.85	−5 to −30
6K7	I. F. Amp.	6.3	270	—	120	0	2.85	—
6H6	Diode Detector	6.3	0	—	—	—	—	—
6F5	A. F. Amp.	6.3	170	—	—	0	1.75	—
6N6	Output	6.3	270	255	—	0	0	—
5Z4MG	Rectifier	5.0	—	—	—	—	330	—

Power Consumption Approximately 80 Watts at 117.5 Volts.
Power Output Approximately 6 Watts.
Voltage Drop Across Speaker Field Approximately 60 Volts.

SPECIFICATIONS

The Crosley Radio Model 716 is a seven-tube superheterodyne receiver designed to operate on an ALTERNATING CURRENT power supply.

It is a three band receiver and the dial is divided into three sections as follows:

BLUE	540-1800 Kilocycles	(American Broadcast Band)
RED	1.8- 6.0 Megacycles	(Police and Amateurs)
GREEN	6.0- 18.0 Megacycles	(High Frequency Bands)

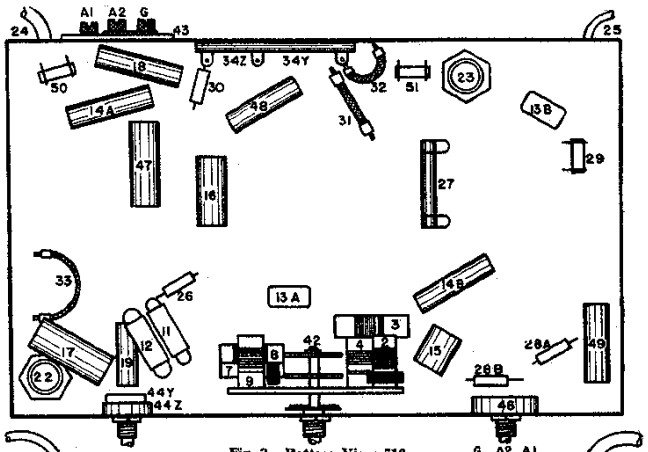


Fig. 3. Bottom View 716

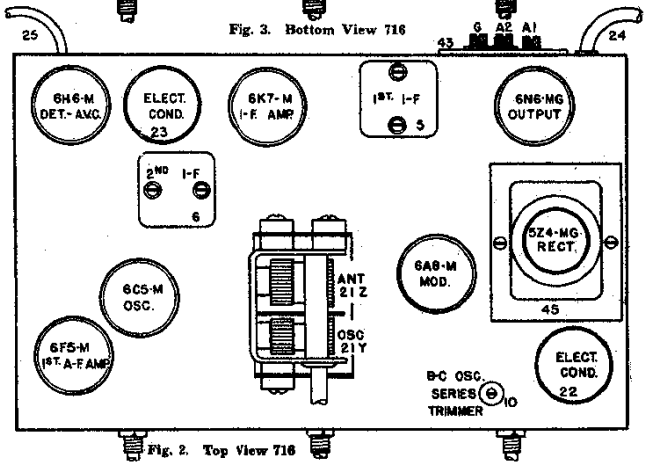


Fig. 2. Top View 716

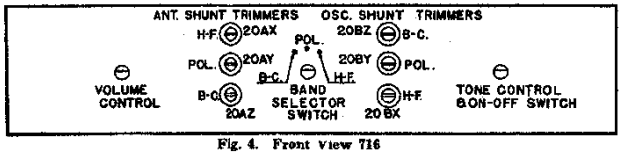


Fig. 4. Front view 716

ALIGNMENT PROCEDURE

All the circuits in this receiver are very accurately adjusted at the factory and normally should need no further adjustment. However, if it is definitely known that an adjustment is necessary the circuits can best be properly aligned with the use of a modulated signal generator and an output meter.

CONNECTING OUTPUT METER

Connect the output meter to the two plates of the 6N6 Output Tube. Be sure the meter is protected from D. C. by connecting a condenser (.1 mfd. or larger—not electrolytic) in series with one of the leads.

1. Tuning I-F Amplifier to 450 Kilocycles.

(a) Connect the output of the signal generator through a .02 mfd. condenser to the top cap of the 6A8 tube, leaving the tube's grid clip in place. Connect the ground lead from the signal generator to the "GND" 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) Turn the band selector switch to the High Frequency Band.

(d) Set the signal generator to 450 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 accurate adjustments.

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 of the signal generator is connected to the "Ant" terminal of the receiver. For the BLUE and RED bands a .00025 mfd. condenser must be connected in series with the output lead of the signal generator and for the high-frequency band 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 (BLUE band). The band selector switch should be set for the band being aligned and the station selector and signal generator should be set to the frequency indicated (c) for each adjustment.

(a) Adjust the "Osc" and "ANT" shunt trimmers in the order given for maximum output. Readjust the station selector slightly so that the generator signal is tuned-in with maximum output and then check the adjustments of the "ANT" trimmers. Do NOT READJUST the "OSC" TRIMMER.

NOTE: When shunt aligning the RED and GREEN bands care must be exercised so that the circuits will be aligned on the correct frequency rather than on the image frequency which is approximately 900 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 generator frequency as indicated on the station selector dial and at approximately 900 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 position.

(b) To align the series trimmer (Item 10, Fig. 2) set the signal generator to the frequency indicated (c) 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.

(c) Signal Input Frequencies:

	Shunt Alignment	Series Alignment
American Broadcast Band (BLUE)	1760 Kilocycles	600 Kilocycles
Police Band (RED)	6000 Kilocycles	
High-Frequency Band (GREEN)	18000 Kilocycles	

Item No.		Part No.	Name
1-AB	W	—37922	Bulb 6-8V., Dial Light
	G3	—37965	Socket Assy., Dial Light
2	G120	—32000	Coil, Ant. (540-1800 Kc.)
3	G119	—32000	Coil, Ant. (1800-6000 Kc.)
4	G121	—32000	Coil, Ant. (5800-18000 Kc.)
5	G122	—32004	Coil Assy., 1st I-F (450Kc.)
6	G125	—33004	Coil Assy, 2nd I-F (450Kc.)
7	G112	—32002	Coil, Osc. (540-1800 Kc.)
8	G111	—32002	Coil, Osc. (1800-6000 Kc.)
9	G123	—32002	Coil, Osc. (5800-18000 Kc.)
10		—40769	Cond. 400-500 Mmf.
11	G7	—34007	Cond., 1750 Mmf.
12	G	8—34007	Cond. 4350 Mmf.
13A	G	2—34002	Cond., .0001Mf.(Molded)
13B	G	2—34002	Cond., .0001 Mf.(Molded)
14A	W	—35139	Cond., .004 Mf. 400V.(Tub.)
14B	W	—35139	Cond., .004Mf.400V.(Tub.)
15	W	—35936	Cond., .05Mf.200V.(Tub.)
16	W	—24049-B	Cond., .1Mf.200V.(Tub.)
17	W	—37873	Cond., .1Mf. 400V.(Tub.)
18	W	—30488	Cond., .02Mf.400 V.Tub.)
19	W	—30805	Cond., .01 Mf.400V.(Tub.)
20	W	—35951	Cond.-3 Section Trimmer
21	G21	—33001	Cond.-2 Section Tuning
	B	—42142-A	Dial-Calibrated Glass
		—42346	Drive Unit
	B	—42338	Mask-Metal
		—41145	Pointer-Dial
	W	—40486	Screw, Pointer Mtg.
	MG27	—42151	Dial Drive Complete
		—41582	Cable, Drive
22	W	—38055	Cond., 35Mf.400V.(Elect.)
23	W	—36057	Cond., 40Mf.300V. (Elect.)
24	B	—33906-A	Cord and Plug, Power
25	G4	—35696	Speaker Cable
26		—40757	Resistor, 50,000 Ohm ½W. (Car.)
27	W	—37987	Resistor, 15,000 Ohm 1W (Wire Wound)
28A		—36688	Resistor, 3 Megohm ½W. (Car.)
28B		—36688	Resistor, 3 Megohm ½W. (Car.)
29		—21456	Resistor, 800,000 Ohm ½W. (Car.)
30		—35930	Resistor, 200,000 Ohm ½W. (Car.)
31	W	—21964	Resistor, 165 Ohm ¾W. (Flex.)
32	W	—35457	Resistor, 210 Ohm ¾W. (Flex.)
33	W	—27503	Resistor, 1400 Ohm ¾W. (Flex.)
34Z, 34Y	W	—32301	Resistor, 10,000Ohm, Candohm, Resistor, 15,000Ohm
35	G156	—36400	Socket Type 6A8
36	G152	—36400	Socket Type 6C5
37	G151	—36400	Socket Type 6K7
38	G155	—36400	Socket Type 6H6
39	G158	—36400	Socket Type 6F5
40	G165	—36400	Socket Type 6N6
41		332—BJ3	Speaker "M" Spec. 1-D-390
		—41638	Cone Assy. for "M" 332BJ3
		—40275	Field Coil for "M" 332BJ3
		—41639	Output Trans. for "M" 332BJ3
42		—40770-A	Switch, Band Selector
43	G27	—26719	Terminal Board, Antenna & Grd.
44Z, 44Y		—37908	Tone Control, 100,000 Ohm Switch, Line
45		—41978	Transformer, 110V. 60 Cy.
		—42149	Transformer, 110V. 25 Cy.
		—42150	Transformer, 220V. 25 Cy.
46		—37967	Volume Control 1Megohm
47	W	—29910-A	Cond., 25Mf.200V.(Tub.)
48	W	—28621	Cond., .02Mf.200V.(Tub.)
49	W	—35758	Cond., .008, 400V. (Tub.)
50		—23785	Resistor, 500,000 Ohm ½W. (Car.)
	W	—42345	Escutcheon
	D	—28	Screw Escutcheon Mtg.
	W	—37339	Knob (3 Req.)
	W	—40192-B	Knob (1 Req.)
		H	Cabinet, Model 744
		C	Cabinet, Model 745