

PAGE 21-10 CROSLEY

MODELS 11-100U, 11-101U, 11-102U,
11-103U, 11-104U, 11-105U, Ch. 301

Model No.	Color
11-100U	White
11-101U	Blue
11-102U	Green
11-103U	Red
11-104U	Ebony
11-105U	Chartreuse

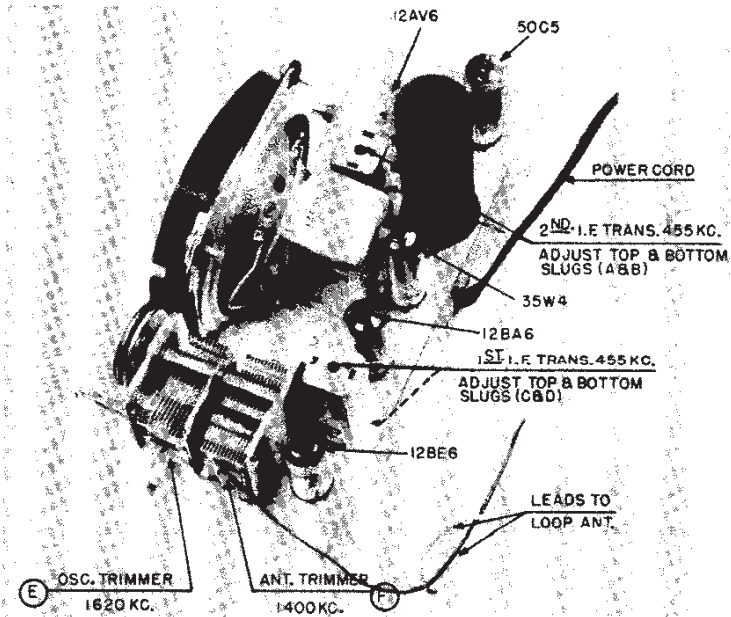


DESCRIPTION

TYPE: Five-tube, single band, Superheterodyne.
FREQUENCY RANGE: 540 to 1600 kc.
INTERMEDIATE FREQUENCY: 455 kc.
POWER SUPPLY: a.c.-d.c.
VOLTAGE RATING: 105-125 volts.
POWER CONSUMPTION: 30 watts.
POWER OUTPUT: 1.5 watts maximum.

TUBE COMPLEMENT

Type	Function
12BE6	Converter
12BA6	I. F. Amplifier
12AV6	Detector, AVC, 1st A.F. Amplifier
50C5	A.F. Power Output
35W4	Rectifier



CHASSIS, TOP VIEW

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When using direct current it may be necessary to reverse the position of the power plug in the electric outlet for correct polarity.

Reversing the position of the power plug when alternating current is used may reduce hum.

Under no circumstances should a ground be connected to this receiver.

ALIGNMENT PROCEDURE

1. Connect an output meter across the speaker voice coil.
2. The r.f. signal input from the signal generator should be connected as indicated in the alignment chart. Connect the signal generator ground through a 0.1 mfd. condenser to B - (pin 2 on 12BA6 tube socket).
3. Turn the volume control on full and adjust the signal generator output to produce approximately midscale deflection of the output meter, but maintain signal generator output as low as possible to prevent AVC action in the receiver.

ALIGNMENT CHART

Alignment adjustment locations are shown on page 1, "CHASSIS, TOP VIEW."

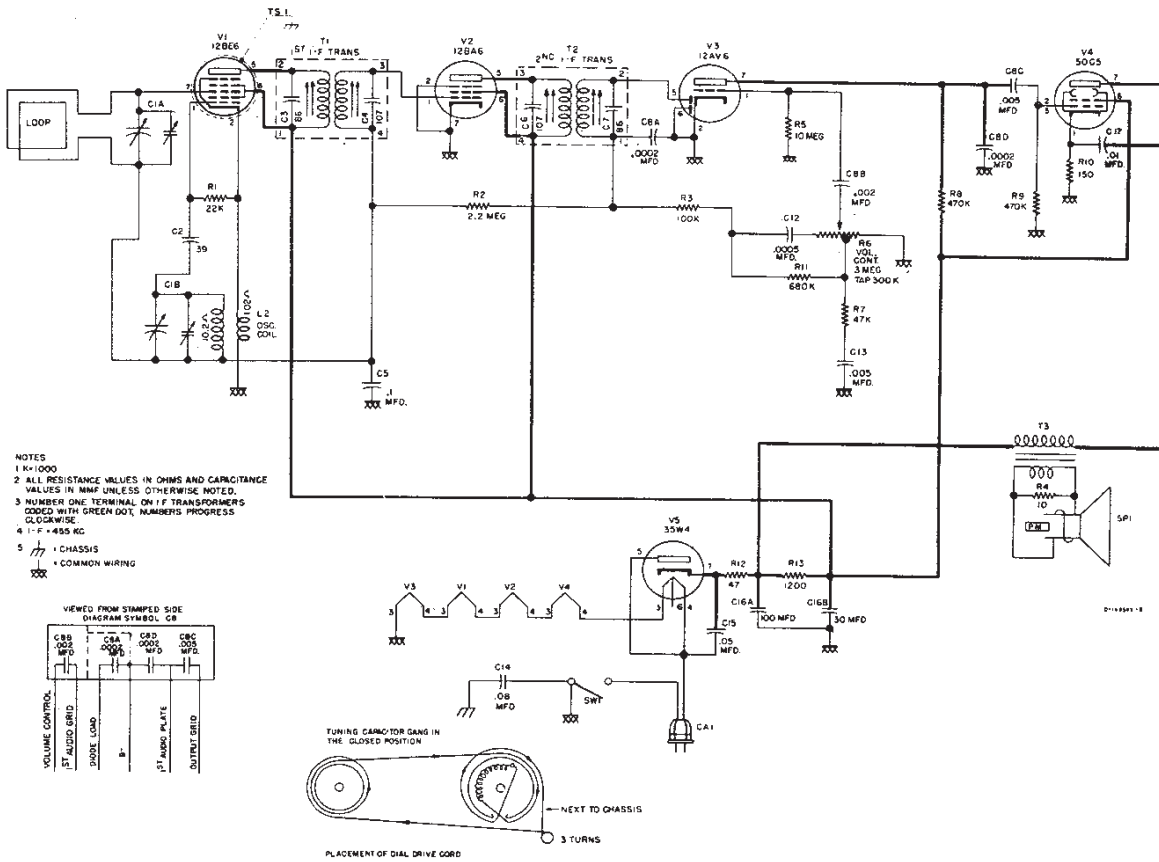
Alignment Sequence	Signal Generator Output			Position of Dial pointer	Adjust for Maximum Output
	Frequency in KC	In Series with	To		
1	455	200 mmf.	High Side of Loop	1620	A, B, C & D (See Note 1.)
2	1620	Radiated to Loop		1620	E (See Note 2.)
3	1400	Radiated to Loop		Tune to Signal	F (See Note 2.)

ALIGNMENT NOTES

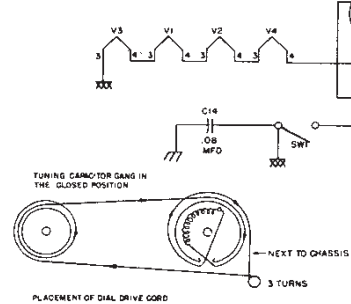
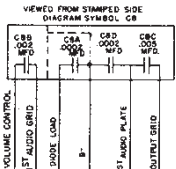
1. Repeat adjustments (A, B, C & D) in sequence, until maximum output is obtained.
2. Place signal generator output lead near the loop antenna. The loop antenna must be positioned with respect to the chassis to simulate its position when chassis and loop are fastened in cabinet.

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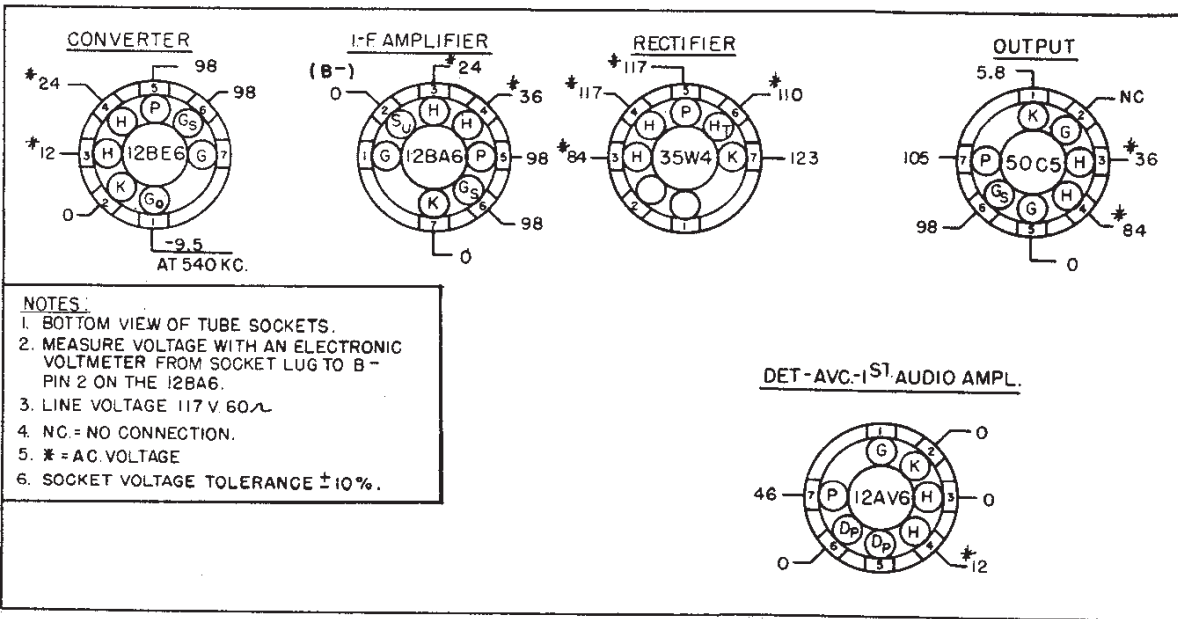
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- NOTES
- 1 K=1000
 - 2 ALL RESISTANCE VALUES IN OHMS AND CAPACITANCE VALUES IN MMF UNLESS OTHERWISE NOTED.
 - 3 NUMBER ONE TERMINAL ON I-F TRANSFORMERS DOTTED WITH GREEN DOT, NUMBERS PROGRESS CLOCKWISE.
 - 4 I-F = 455 KC.
 - 5 χ CHASSIS
 - XXX COMMON WIRING



SCHEMATIC DIAGRAM



- NOTES:
1. BOTTOM VIEW OF TUBE SOCKETS.
 2. MEASURE VOLTAGE WITH AN ELECTRONIC VOLTMETER FROM SOCKET LUG TO B-PIN 2 ON THE 12BA6.
 3. LINE VOLTAGE 117 V. 60 ω
 4. NC = NO CONNECTION.
 5. * = AC VOLTAGE
 6. SOCKET VOLTAGE TOLERANCE $\pm 10\%$.

SOCKET VOLTAGE CHART

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REPLACEMENT PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C1A	B-148350	Capacitor, Variable) Two Section	L2	AW-148259	Coil, Oscillator
C1B		Capacitor, Variable)	SP1	AD-148400	Speaker
C2	C-137727-109	Capacitor, 39 mmf., 10%, 200 v., ceramic	SW1	Part of R6	Switch, Power
C3	Part of T1	Capacitor, 86 mmf.	TS1	W-147784	Shield, Tube (V1)
C4	Part of T1	Capacitor, 107 mmf.	T1	C-139919-5	Transformer, 1st I.F.
C5	39001-19	Capacitor, .1 mfd., 600 v., paper	T2	C-139919-5	Transformer, 2nd I.F.
C6	Part of T2	Capacitor, 107 mmf.	T3	138131-1	Transformer, Output
C7	Part of T2	Capacitor, 86 mmf.	AB-148406-1	AB-148406-1	Baffle & Grille Cloth Assy.
C8A	C-144675-1	Capacitor, .0002 mfd., 500 v.)	AB-148465-1	AB-148465-1	Cabinet (11-100U)
C8B		Capacitor, .002 mfd., 500 v.) Four Sec-	AB-148465-2	AB-148465-2	Cabinet (11-101U)
C8C		Capacitor, .005 mfd., 500 v.) tion disc	AB-148465-3	AB-148465-3	Cabinet (11-102U)
C8D		Capacitor, .0002 mfd., 500 v.) ceramic	AB-148465-4	AB-148465-4	Cabinet (11-103U)
C12	39001-5	Capacitor, .0005 mfd., 600 v., paper	R-148273-3	R-148273-3	Cabinet (11-104U)
C13	39001-11	Capacitor, .005 mfd., 600 v., paper	AB-148465-6	AB-148465-6	Cabinet (11-105U)
C14	39001-85	Capacitor, .08 mfd., 600 v., paper	W-148434	W-148434	Clip, I.F. Transformer Mtg.
C15	39001-17	Capacitor, .05 mfd., 600 v., paper	W-131154-1	W-131154-1	Cotter (External), Tuning Shaft
C16A	B-148357	Capacitor, 100 mfd., 150 v.) Two Section	B-148364	B-148364	Gasket, Speaker
C16B		Capacitor, 30 mfd., 150 v.) Electrolytic	W-148390	W-148390	Grommet (3 used), chassis
C17	39001-13	Capacitor, .01 mfd., 600 v., paper	B-148318-1	B-148318-1	Knob (11-100U)
R1	39373-60	Resistor, 22,000 ohm, 1/2 w.	B-148318-2	B-148318-2	Knob (11-101U)
R2	39373-97	Resistor, 2.2 megohm, 1/2 w.	B-148318-3	B-148318-3	Knob (11-102U)
R3	39373-74	Resistor, 100,000 ohm, 1/2 w.	B-148318-4	B-148318-4	Knob (11-103U)
R4	39373-1	Resistor, 10 ohm, 1/2 w.	B-147318-5	B-147318-5	Knob (11-104U)
R5	39373-107	Resistor, 10 megohm, 1/2 w.	B-148318-6	B-148318-6	Knob (11-105U)
R6	B-148327	Control, Volume (3 megohm, Tap 300,000 ohm)	B-94704-7	B-94704-7	Nut (Push On), Grille Cloth Mtg.
R7	39373-67	Resistor, 47,000 ohm, 1/2 w.	B-148320	B-148320	Pointer, Dial
R8	39373-87	Resistor, 470,000 ohm, 1/2 w.	39176-59	39176-59	Screw, Chassis Mtg.
R9	39373-87	Resistor, 470,000 ohm, 1/2 w.	W-148379	W-148379	Shaft, Tuning
R10	39373-16	Resistor, 150 ohm, 1/2 w.	AW-148806	AW-148806	Shaft & Pulley Assy., Pointer
R11	39373-90	Resistor, 680,000 ohm, 1/2 w.	39462-2	39462-2	Socket, Tube
R12	39374-97	Resistor, 47 ohm, 10%, 1 w.	W-148469	W-148469	Spring (Retainer), Pointer Pulley
R13	39374-114	Resistor, 1200 ohm, 10%, 1 w.	W-51752	W-51752	Spring, Drive Cord
CA1	C142769-1	Cable & Plug Assy., Power	AB-148362	AB-148362	Support & Bushing Assy., Pointer Pulley
L1	C-148399	Loop & Back Assy.	W-134916	W-134916	Washer (Spring), Tuning Shaft

Slipping of dial drive cords on these models can be corrected by replacing the drive cord with a cord long enough to permit it to be wrapped around the drive shaft four turns instead of three turns.

If necessary, place a 1/16" thick #6 flat washer on each screw that mounts the tuning capacitor. The washer should be placed between the rubber grommet eyelet and the capacitor frame. When the mounting screws are drawn tight, the eyelet will then flatten enough to reduce the flexibility of the grommet. This will hold the capacitor rigid and prevent the cord from becoming loose when the drive shaft is rotated.

In addition to the recommendations in the original service instruction it is sometimes necessary to replace the drive shaft with new shaft (part Number 148379). This new shaft does not have a groove for the drive cord.

On some sets of models 11-100U to 11-109U, R2 is a 3.3 megohm, 10%, 1/2 watt resistor instead of a 2.2 megohm resistor; and because of this C5 is an .05 mfd., 600 volt paper capacitor (Part No. 39001-17).

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