Crosley Corp.					
	Model: 11-101U	Chassis:	Year: Pre 1952		
	Power:	Circuit:	IF:		
	Tubes:		·		
	Bands:				
		Resources			
Riders Volume 22 - CHANGES 22-2					
Riders Volume 21 - CROSLEY 21-10					
Riders Volume 21 - CROSLEY 21-11					
Riders Volume 21 - CROSLEY 21-12					
Riders Volume 21 - CROSLEY 21-13					

1. Check or replace resistor (Illus. No.

2. Check or replace capacitor (Illus. No., 17).

If the tubes, vibrator, and voltages are correct and radio does not play the trouble will be in the grid circuit of the radio. To continue, it will be necessary to eheck the grid circuit by means of signal tracing.

Turn on signal generator on and off switch, place the modulation switch in the modulated position set signal generator tone control to 0.5 and place shielded lead assembly in jack marked "audio." Ground the black lead to the radio chassis. Turn on radio receiver with volume to maximum position,

With red leads touch pin marked "P" on the 6V6GT tube. If you have no signal, check the following:

1. Check or replace speaker.

2. Check or replace audio transformer. Touch pin "G" on 6V6GT tube. If no sig-

thal check or replace 6V6GT tube.

Touch pin "P" on the 6SQ7 tube. If no signal check the following:

1. Check or replace capacitors (Illus. Nos. 25, 26, 27, and 28).

2. Check or replace tone control.

Touch pin "G" on 6SQ7 tube. If no signal, check or replace 6SQ7 tube.

Touch the two pins marked "DP" on 6SQ7 tube. A signal should be heard on each one. If no signal check or replace 6SQ7 tube.

Change the signal generator shielded lead to the intermediate frequency "I.F." jack. Tune signal generator to exactly 262 and set band switch in "A" position. Turn the signal generator volume control about one-third open and touch pin "P" on intermediate frequency 6SK7 amplifier tube. If no signal, check the following:

1. Check or replace intermediate frequency transformer.

2. Check or replace volume control.

3. Check or replace capacitor (Illus. No. 23)

4. Check or replace resistor (Illus. No.

Touch pin "G" on i-f 6SK7 amplifier tube. If no signal check or replace 6SK7 tube.

Touch pin "P" on 6SA7 tube. If no signal check the following:

1. Check or replace intermediate frequency transformer.

2. Check or replace sensitivity control. Touch pin marked, "G" on 6SA7 tube. If no signal check or replace 6SA7 tube.

Change the signal-generator shielded lead to the radio frequency "R.F." jack, tune signal generator to exactly 1000 kc and set band switch to "B" position. Tune radio to 1000 kc. Touch pin "P" on 6SK7 amplifier tube. If no signal check the following:

1. Check or replace radio frequency coil (Illus. No. 3).

2. Check or replace oscillator coil (Illus. No. 4).

3. Check or replace eapacitors (Illus. Nos. 18, 19A, 19B, 20 and 21).
Touch pin "G" on r-f 6SK7 tube. If no sig-

nal check or replace 6SK7 tube. Place a 0.000075-µf capacitor on the end of

red lead and plug in antenna socket. If no signal theck the following:

1. Check or replace antenna coil (Illus. No. 1).

2. Check or replace choke coils (Illus. No. 2). 3. Check or replace antenna trimmer (Illus.

No. 16). 4. Check or replace resistors (Illus. Nos. 37 and 42).

Crosley 11-100U, 11-101U, 11-102U, 11-103U, 11-104U, 11-105U, Ch. 330

Chassis 330 is similar to Chassis 301, which is also used with the above models, except that the 330 uses a 12SQ7GT (V3) in the detector-ave 1st a-f amplifier stage, whereas the 301 uses a 12AV6. The 12SQ7GT is connected in the following way: pin 1 goes to the shield; pin 2 goes to the junction of R5 and C8B; pin 3 goes to the junction of ground, pin 4, and C8A; pin 5 goes to tap 2 of the 2nd i-f transformer T2, pin 6 goes to the junction of R8, C8C, and C8D; pin 7 goes to pin 3 of V1, and pin 8 is grounded. The voltage readings are as follows: pins 1, 3, 4, and 8 are 0 volts; pin 2 is -0.8 volt; pin 5 is -0.6 volt; pin 6 is 52 volts; pin 7 is 12 volts a.c.

The following part should be added to the parts list: TS2, Part No. W-46447-1, Shield,

tube (V3).

The following procedure should be used when installing an idler spring (part no. 151085) on the drive shaft:

- 1. Remove cotter from end of shaft under chassis.
- 2. Pull drive shaft straight out from chassis being careful to keep drive cord on shaft and pulley.
- 3. Remove spring washer from shaft. 4. Place idler spring on shaft and then hook one end of the spring under the chassis. The other end of the spring hooks around the portion of drive cord that is between the drive shaft and the tuning capacitor pulley.

5. Place spring washer on the drive shaft, insert drive shaft in chassis, and insert cotter on end of shaft.

### Emerson 559, Ch. 120059A

The schematic diagram for Chassis 120059A shows two resistors marked R15. The one going to pin 6 of the 117Z3 should be marked

#### Emerson 672B, Ch. 120097-B

The 672B is similar to Model 634B in that both models use a 120097-B chassis. The service data and Parts List for 672B, Ch. 120097-B, are the same as those for the 634B except for the cabinet parts listed below:

Part No. 140396 470092 620145 580138 4500998 450099 587011 Description Cabinet
Lid support
Chassis mounting board
Shielded lead wire (25")
Knob
Knob pring insert 700053 410807-1 530002 Loop antenna Dial back plate Drive cord (37") Pointer.

### Fornsworth P-63

Record changer P-63 is basically the same as the P-62 record changer—the difference lies in the type of trip mechanism. The P-62 changer employs a fixed position trip; the P-63, a velocity trip.

Farnsworth 36P10, Capehart

Model 36P10 employs the Farnsworth P-10 a-m-f-m radio chassis and the Farnsworth P-73 intermix record changer in a mahogany chairside cabinet with a 12-inch high-fidelity p-m speaker. For information on the radio chassis and record changer used in this instrument see Farnsworth Chassis P7, P9, and P-10 and the Farnsworth P-72 and P-73 Record Changers,

Following is a list of parts which pertain to the Model 36P10 only. Parts for the integral parts of the chassis and record changer are included under their respective chassis,

Part No. H-328 750000A 79373 59316 650011A-1 13908 750004A-1	Description Cabinet (36P10) Dial escutcheon Knob (2) Knob (2) Speaker and output Loop antenna assy. A-m dial glass	transformer
750004A-2	F-m dial glass.	

### Farnsworth P-860

The alignment procedure and table, the chassis component layout, suggested batteries, and dial-cord stringing diagram for Model P-860 are the same as those for Farnsworth Model GP-350.

# Farnsworth "N" Series, Capehart

In order to permit the use of the "Magnetic True Timbre" pickup in the N series instruments, a modification kit has been prepared, No. 41141.

A separate phono preamplifier (2-stage) using a 6SC7 twin triode tube, and mounted on a separate chassis, is used in place of the 6J7 preamplifier stage included on the tuner chassis. The schematic diagram for this stage is shown in Fig. 1. The 6J7 tube has been removed and the power cable to the preamp chassis is brought through the unused socket and connections made on the underside of the socket. The 6J7 stage is not used, so a shielded lead is connected directly from the phono input socket to the phono lug on the auxiliary bandswitch.

The noise eliminator, which is furnished with the record changer modification kit, is also included in these modified N series instruments. The circuit diagram of the noise eliminator is the same as that in the P4 series.

The voltage and resistance readings for the 6SC7 are given below:

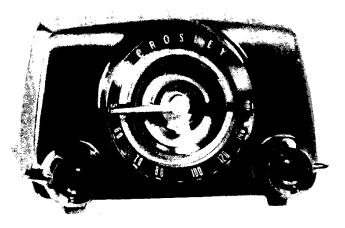
Pin	Voltage (volts)	Resistano (ohms)
1	0	(carras)
2	150	200 K
	0.3	inf
,	0.3	inf
6	135	200 K
7	, 0	0
8	. 0	0
0	5.4ac	2.5

Fig. 1. Schematic for the 6SC7 phono-preamplifier stage used in the Farnsworth "N" Series, Capehart.

# PAGE 21-10 CROSLEY

MODELS 11-1000, 11-1010, 11-1020, 11-1030, 11-1040, 11-1050, 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.

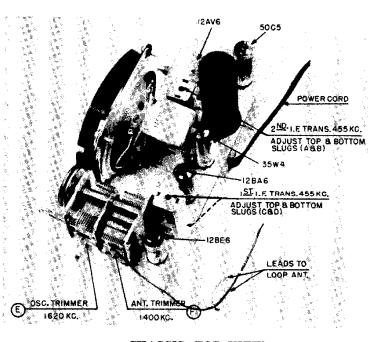
FREQUENCY RANGE: 540 to 1600 kc.
INTERMEDIATE FREQUENCY: 455 kc.

POWER SUPPLY: a.c.-d.c.

VOLTAGE RATING: 105-125 volts.
POWER CONSUMPTION: 30 watts.

POWER OUTPUT: 1.5 watts maximum.

75			
Туре	Function		
12BE6	Converter		
12BA6	I. F. Amplifier		
12AV6	Detector, AVC, 1st A.F. Amplifier		
50C5	A.F. Power Output		
35W4	Rectifier		



CHASSIS, TOP VIEW

MODELS 11-1000, 11-1010, 11-1020, 11-1030, 11-1040, 11-1050, Ch. 301

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				
	Frequency in KC	In Series with	То	Position of Dial pointer	Adjust for Maximum Output
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.

PAGE 21-12 CROSLEY MODELS 11-100U, 11-101U, 11-102U, 11-103U, 11-104U, 11-105U, Ch. 301 T.0002 MF0 0005 MF0. RI R7 47K MFD. 0000000 CHASSIS STAUDIO GRID TUNING CAPACITOR GANG IN THE GLOSED POSITION VEXT TO CHASSIS PLACEMENT OF DIAL DRIVE CORD SCHEMATIC DIAGRAM I-E AMPLIFIER CONVERTER RECTIFIER OUTPUT (B-) AT 540 KC. NOTES:
I. BOTTOM VIEW OF TUBE SOCKETS.
2. MEASURE VOLTAGE WITH AN ELECTRONIC VOLTMETER FROM SOCKET LUG TO B-DET-AVC-ISTAUDIO AMPL. PIN 2 ON THE 12BA6. 3. LINE VOLTAGE 117 V. 60 AL 4. NC.= NO CONNECTION. 5. \* = A C. VOLTAGE 6. SOCKET VOLTAGE TOLERANCE \$10%.

SOCKET VOLTAGE CHART

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

# REPLACEMENT PARTS LIST

Symbol Part No	. Description	Symbol No.	Part No.	Description
C1A B-148350 C1B C1B C2 C-137727- C3 Part of T1 C4 Part of T1 C5 39001-19 C6 Part of T2 C7 Part of T2 C8A C-144675- C8D C12 39001-5 C13 39001-11 C14 39001-85 C15 39001-17 C16A B-148357 C16B C17 39001-13 R1 39373-60 R2 39373-97 R3 39373-74 R4 39373-10 R6 B-148327 R7 39373-10 R6 B-148327 R7 39373-17 R6 B-148327 R7 39373-17 R6 B-148327 R7 39373-17 R10 39373-10 R11 39373-10 R12 39374-97 R13 39374-97 R13 39374-97 R13 39374-114 CA1 C142769- C-148399	Capacitor, 86 mmf. Capacitor, 107 mmf. Capacitor, 11 mfd., 600 v., paper Capacitor, 107 mmf. Capacitor, 86 mmf. Capacitor, 0002 mfd., 500 v. Capacitor, 002 mfd., 500 v. Capacitor, 005 mfd., 500 v. Capacitor, 005 mfd., 500 v. Capacitor, 005 mfd., 600 v., paper Capacitor, 005 mfd., 600 v., paper Capacitor, 005 mfd., 600 v., paper Capacitor, 05 mfd., 600 v., paper Capacitor, 05 mfd., 600 v., paper Capacitor, 05 mfd., 600 v., paper Capacitor, 010 mfd., 150 v. Two Section Capacitor, 30 mfd., 150 v. Electrolytic Capacitor, 30 mfd., 150 v. Electrolytic Capacitor, 01 mfd., 600 v., paper Resistor, 22 megohm, ½ w. Resistor, 10 ohm, ½ w. Resistor, 10 megohm, ½ w. Resistor, 10 megohm, ½ w. Control, Volume (3 megohm, Tap 300,000 ohm) Resistor, 470,000 ohm, ½ w. Resistor, 470,000 ohm, ½ w. Resistor, 470,000 ohm, ½ w. Resistor, 580,000 ohm, ½ w. Resistor, 680,000 ohm, ½ w. Resistor, 1200 ohn, 1½ w. Resistor, 1200 ohn, 10%, 1 w. Resistor, 1200 ohn, 10%, 1 w.	L2 SP1 SW1 TS1 T1 T2 T3	AW-148259 AD-148400 Part of R6 W-147784 C-139919-5 C-139919-5 138131-1 AB-148465-1 AB-148465-1 AB-148465-3 AB-148465-6 W-14836-1 W-14836-1 W-148318-1 B-148318-2 B-148318-3 B-148318-3 B-148318-6 B-94704-7 B-148320 39176-59 W-148379 AW-148806 B-94704-7 B-148379 AW-148806 B-94704-7 B-148379 AW-148806 B-94704-7 B-148379 AW-148806 B-94704-7 B-148379 AW-148469 W-134916	Coil, Oscillator Speaker Switch, Power Shield, Tube (V1) Transformer, 1st I.F. Transformer, Qutput Baffle & Grille Cloth Assy. Cabinet (11-100U) Cabinet (11-101U) Cabinet (11-103U) Cabinet (11-105U) Cabinet (11-105U) Clip, I.F. Transformer Mtg. Cotter (External), Tuning Shaft Gasket, Speaker Grommet (3 used), chassis Knob (11-100U) Knob (11-101U) Knob (11-103U) Knob (11-103U) Knob (11-104U) Knob (11-105U) Nut (Push On), Grille Cloth Mtg. Pointer, Dial Screw, Chassis Mtg. Shaft, Tuning Shaft & Pulley Assy., Pointer Socket, Tube Spring (Retainer), Pointer Pulley Spring (Retainer), Tuning Shaft Support & Bushing Assy., Pointer Pulley 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).