

CROSLEY MODEL 11-446MU

TRADE NAME	Crosley	Chassis 321, 321-1, 321-2	Models 11-445MU, 11-447MU, 11-459MIU, MU, 11-465WU, 11-475BU, 11-477BU
		325	11-446MU, 11-476BU
		331	11-442MU, 11-453MU, 11-460MU, 11-470BU, 11-472BU, 11-483BU
MANUFACTURER	Crosley Corp., 1329 Arlington St., Cincinnati, Ohio		
TYPE SET	Television Receiver		
TUBES	Twenty Four		
POWER SUPPLY	110-120 Volts AC - 60 Cycle		
RATING	2.3 Amp. @ 117 Volts AC		
TUNING RANGE	Channels 2 thru 13		

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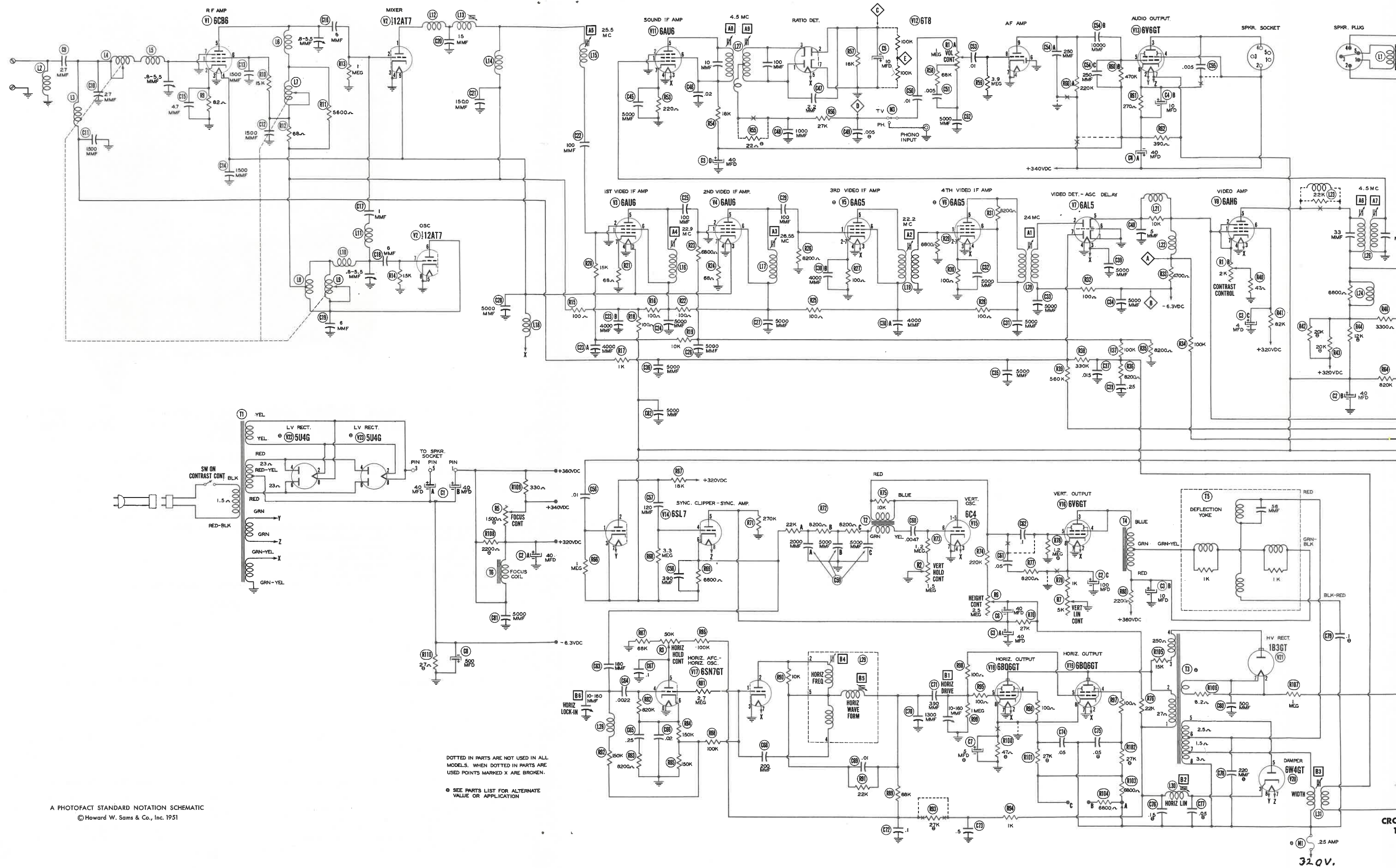
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DATE 3-51

SET 126

FOLDER 4

CROSLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MIU, MU, 11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU





11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU

**CROSLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MIU, MU, 11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU**

# **PARTS LIST AND DESCRIPTIONS (Continued)** **TRANSFORMER (AUDIO OUTPUT)**

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		CROSLLEY	STANCOR	MERIT	CHICAGO	
	PRI.	SEC.	PRI.	SEC.	PART No.	PART No.	PART No.	PART No.	
T7	5KΩ	3.6Ω	360Ω	.7Ω	B149476	A-3877 ③	A-2930 ③	R0-9 ③	③ Drill one new mtg. hole.

## **SPEAKER**

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	CROSLLEY	VIKING	QUAM	
			PART No.	PART No.	PART No.	
SP1	PM	3.6Ω	138762-5	10J12	10A4A	
SP2	CONE DIA.	V. C. DIA.				
	9 1/2"	1"				

## **FILTER CHOKE \***

ITEM No.	RATINGS		REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ∽)	CROSLLEY	STANCOR	MERIT	
				PART No.	PART No.	PART No.	
L1	.225ADC	49Ω	1 Henry	B149475	C-2326 ③	C-3196	TR4200 ③ ③ Drill new mtg. hole.

## **COILS (RF-IF)**

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	CROSLLEY	MEISSNER	IRC	
				PART No.	PART No.	PART No.	
L2	Ant. Coil	.6Ω		B-148936-2		CLA	.82 Microhenry
L3	Grid Choke	6.1Ω		B-148936-3		CL-1	8.2 Microhenries
L4	Ant. Coil	0Ω					Part of Tuner Part # W-149222
L5	Ant. Coil End Inductor	0Ω		AW-149071			
L6	RF End Inductor	0Ω		AW-149070			
L7	RF Coil	0Ω					Part of Tuner Part # W-149222
L8	Osc. Coil Shunt	0Ω		AW-149062			
L9	Osc. Coil	0Ω					Part of Tuner Part #W-149222
L10	Osc. Coil End Inductor	0Ω		AW-149069			
L11	Osc. Coupling Coil	0Ω		AW-149086			
L12	Converter Plate Coil	0Ω		AW-149072			
L13	1st Video IF	.5Ω		AW-149088			
L14	RF Choke	.1Ω		AW-149063			
L15	1st Video IF Coupling	.4Ω		AW-146763			
L16	2nd Video IF	.3Ω		AW-146582			
L17	3rd Video IF	.3Ω		AW-146583			
L18	Fil. Choke	0Ω		AW-143934			
L19	4th Video IF	.6Ω	.7Ω	AW-147974			
L20	5th Video IF	.8Ω	.8Ω	AW-148983			
L21	Peaking	11Ω		AW-149357			Orange Dot(Wound on 10KΩ Resistor)
L22	Peaking	19Ω		AW-146889			Blue Dot
L23	Peaking			AW-149242			White Dot(Not Used In All Models)
L24	Peaking	23Ω					Blue Dot(Wound on Resistor)
L25	Peaking	12Ω					Wound On Resistor
L26	Sound IF	2.6Ω	2.4Ω	AC-146782			
L27	Ratio Det. Trans.	4.2Ω	.2Ω	C-146874			
L28	Delay Coil	120Ω		AW-148440			
L29	Horiz. Osc. Trans	140Ω	40Ω	AC-146698			
L30	Horiz. Lin.	8Ω		AW-148452			
L31	Width Coil	21Ω	10Ω	AW-149492			

## **FUSES**

ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			CROSLLEY PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1A B	3AG	.250A .175A	W145780 ① W150065 ②		318.250		① Used in Model 11-446MU, 11-476BU ② Used in Models 11-445MU, 11-447MU, 11-475BU, 11-477BU, 11-459MIU, 11-459MU 11-465WU

## **MISCELLANEOUS**

ITEM No.	PART NAME	CROSLLEY PART No.	NOTES
M2	RF Tuner	AW-149159	Complete
M3	Switch	W-148260	TV-Phono
M4	Ion Trap	B-148484	
B1, B6	Trimmer	B-132386-17	2 Sections (Horiz. Drive 10-160MMF, Horiz. Lock 10-160MMF)
	Safety Glass	R-149067-1	Model 11-446MU
	Safety Glass	R-149067-2	Model 11-476BU
	Safety Glass	R-148981-1	Models 11-442MU, 11-445MU, 11-447MU
	Safety Glass	R-148981-2	Models 11-472BU, 11-475BU, 11-477BU
	Escutcheon	C-149549-1	Model 11-446MU
	Escutcheon	C-149549-2	Model 11-476BU
	Escutcheon	C-149128-1	Model 11-442MU, 11-445MU, 11-447MU
	Escutcheon	C-149128-2	Models 11-472BU, 11-475BU, 11-477BU
	Pointer	W-149046	Tuning
	Knob	AW-148867	Tuning (Models 11-446MU, 11-442MU, 11-445MU, 11-447MU)
	Knob	AW-149853	Tuning (Models 11-476BU, 11-472BU, 11-475BU, 11-477BU)
	Knob	AW-148865	Contrast (Models 11-446MU, 11-442MU, 11-445MU, 11-447MU)
	Knob	AW-149852	Contrast (Models 11-476BU, 11-472BU, 11-475MU, 11-477BU)
	Knob	AW-148866	Volume (Models 11-446MU, 11-442MU, 11-445MU, 11-447MU)
	Knob	AW-149854	Volume (Models 11-476BU, 11-472BU, 11-475BU, 11-477BU)

## HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

### HORIZONTAL DRIVE ADJUSTMENT

Due to the use of two horizontal output tubes connected in parallel, the horizontal drive adjustment becomes more critical than the case where only one output tube is used.

It is recommended that if one of the output tubes is replaced, both be replaced and checked to see that each tube draws the same plate current. If possible try several combinations of tubes to match the plate currents as closely as possible.

The drive trimmer (B1) should be readjusted if the tubes are changed.

To adjust the drive trimmer, turn the trimmer counter-clockwise until the picture width begins to decrease, or until crowding occurs in the center of the picture, whichever occurs first.

Check to see if the horizontal linearity in the center of the picture changes with the contrast control setting. If it does, turn the trimmer clockwise just far enough to eliminate the change in linearity as the contrast control is changed.

The point of best horizontal linearity coincides with the point of least plate dissipation of the horizontal output tubes, and this linearity with the horizontal linearity slug (B2) as far out of the coil as possible. If the horizontal linearity adjustment is changed, it will be necessary to readjust the drive trimmer (B1). Adjust the width slug (B3) until the picture fills the mask horizontally. If proper width cannot be obtained by properly adjusting B1 and B3, change the screen voltage on the output tubes by changing the tap on the terminal strip near the horizontal output tubes, on the underside of the chassis.

### HORIZONTAL OSCILLATOR ALIGNMENT

Tune in a TV station and set the contrast control for a normal picture.

Turn the horizontal hold control to the mid-position of its range.

Adjust the horizontal frequency slug (B4) until the picture synchronizes horizontally.

Connect the vertical input lead of an oscilloscope thru a 10MMF capacitor to terminal 5 of L29, low side to chassis.

Adjust the waveform slug (B5) until the broad and narrow peaks of the waveform on the scope are of equal height as shown in figure 4. If necessary during adjustment of B5, adjust B4 to keep the picture synchronized.

Turn the horizontal hold control to maximum clockwise.

Adjust B4 counter-clockwise until the picture is out of sync and shows 1 vertical bar.

Turn the hold control to maximum counter-clockwise, the picture should remain in sync.

Momentarily interrupt the signal by tuning to another channel and back again. The picture will be out of sync and show a number of bars sloping downward to the right. If more than 7 bars are present adjust the horizontal lock trimmer (B6) slightly counter-clockwise. If less than 5 bars are present adjust B6 slightly clockwise. Repeat the adjustment of B4 and the lock in check.

The lock-in range of the horizontal hold control should be between 120 degrees and 220 degrees of rotation of the control.

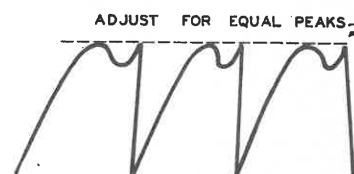


FIG. 4

### AGC ADJUSTMENT

Tune in a weak station and turn the contrast control to maximum.

Adjust the AGC adjustment until the picture just begins to overload.

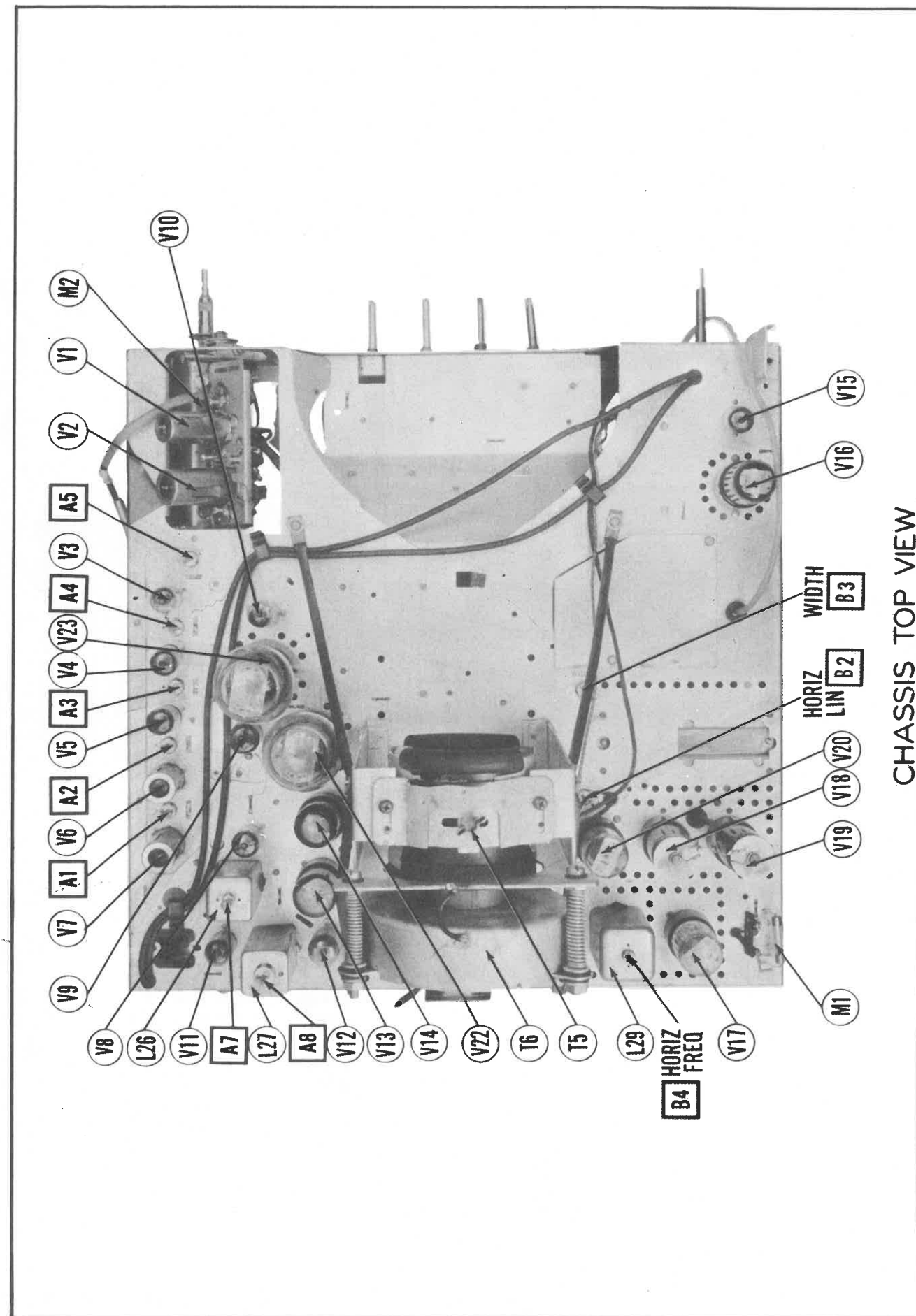
## DISASSEMBLY INSTRUCTIONS

### CHASSIS REMOVAL

1. Remove four control knobs and channel pointer.
2. Remove six wood screws holding rear cover in place. Remove rear cover.
3. Disconnect built-in antenna.
4. Disconnect speaker.
5. Remove five 7/16" hex head bolts holding chassis in cabinet.
6. Remove four 1/4" hex head nuts from speaker. Remove speaker.

### PICTURE TUBE REMOVAL

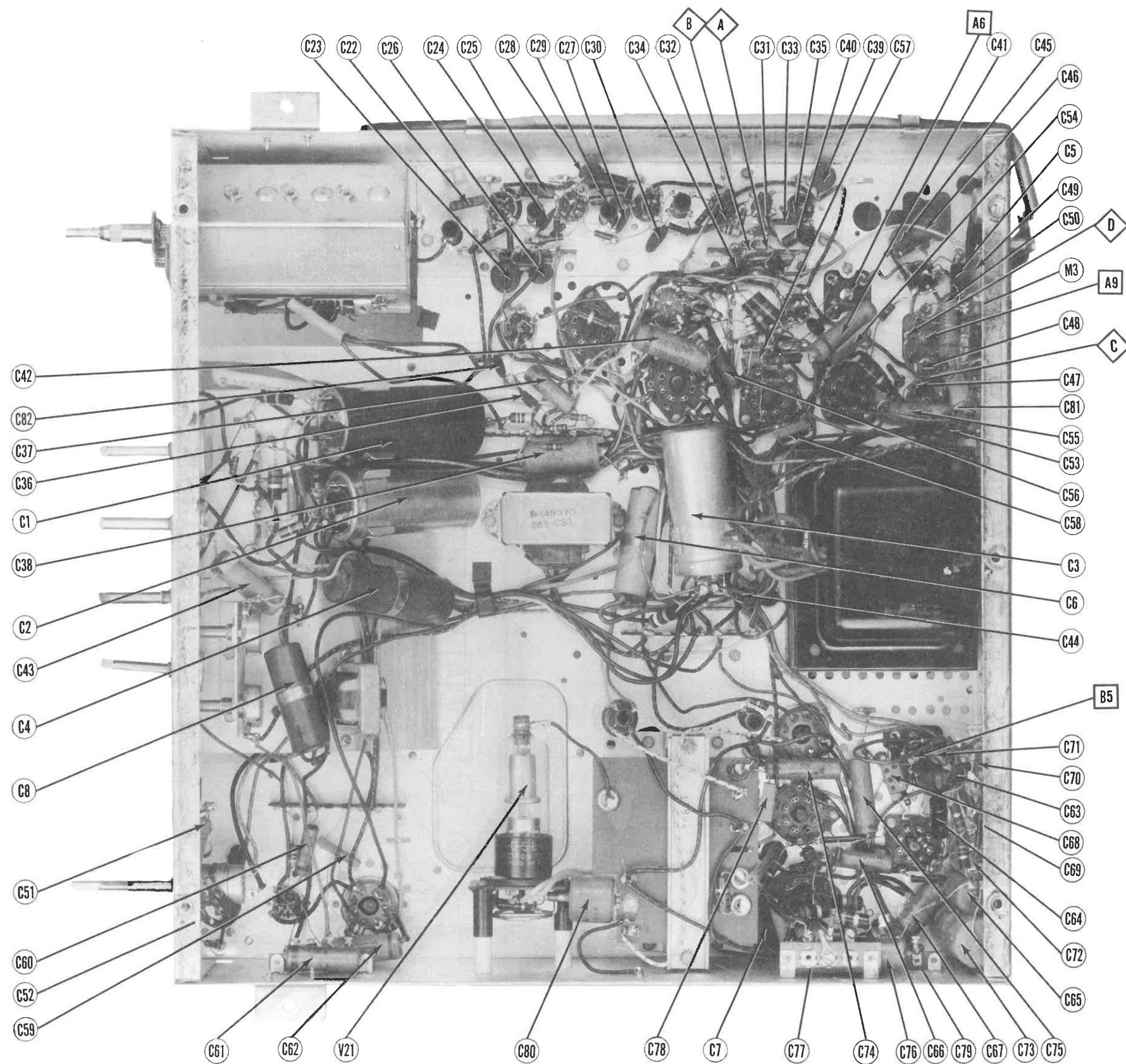
1. Remove four phillips head screws holding front mask in place. Remove mask.
2. Remove rear cover.
3. Remove picture tube socket, ion trap and H.V. lead.
4. Remove metal strap around top of picture tube.
5. Remove picture tube.



MAIN DOL SISSVHC

CROSLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MU, MU,  
11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU





CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

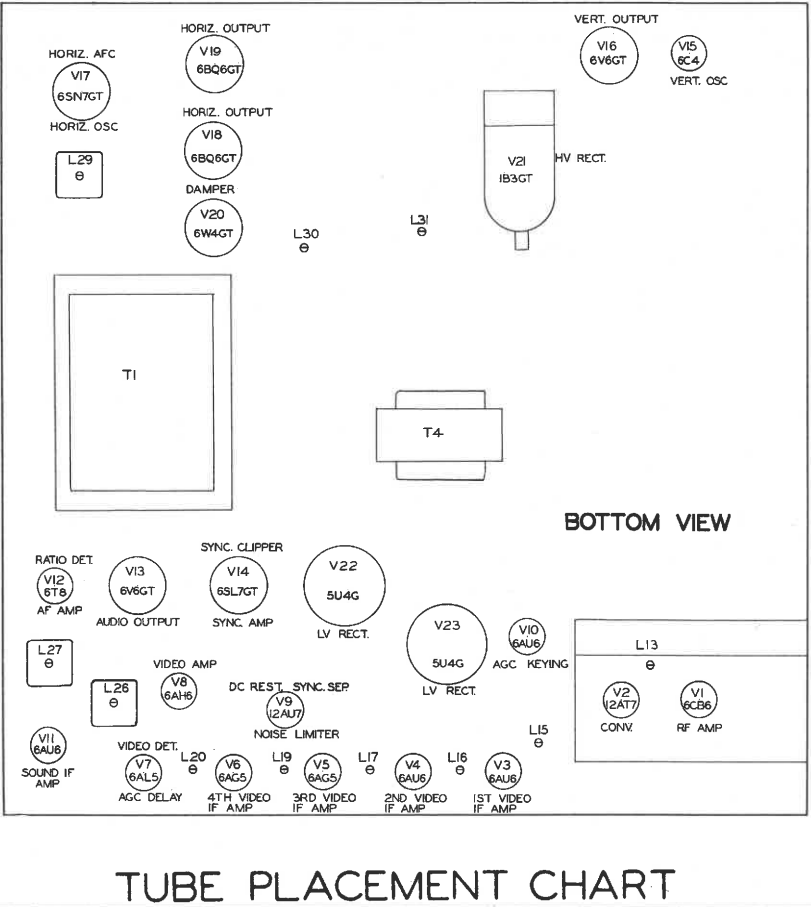
VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS											RESISTANCE READINGS										
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	-2.2VDC	.5VDC	0V	6.3VAC	95VDC	75VDC	0V			V 1	6CB6	270KΩ	82Ω	0Ω	.1Ω	#270Ω	#15KΩ	0Ω		
V 2	12AT7	95VDC	-2.8VDC	0V	0V	90VDC	90VDC	8-2.5VDC	0V	6.3VAC	V 2	12AT7	#200Ω	1MΩ	0Ω	0Ω	0Ω	#200Ω	15KΩ	0Ω	.1Ω
V 3	6AU6	-2.2VDC	0V	6.3VAC	0V	95VDC	95VDC	.6VDC			V 3	6AU6	35KΩ	0Ω	.1Ω	0Ω	#200Ω	#200Ω	68Ω		
V 4	6AU6	-2.2VDC	0V	6.3VAC	0V	92VDC	92VDC	.6VDC			V 4	6AU6	15KΩ	0Ω	.1Ω	0Ω	#300Ω	#300Ω	68Ω		
V 5	6AG5	0V	.9VDC	6.3VAC	0V	90VDC	90VDC	.9VDC			V 5	6AG5	8.2KΩ	100Ω	.1Ω	0Ω	#400Ω	#400Ω	100Ω		
V 6	6AG5	0V	.9VDC	6.3VAC	0V	87VDC	87VDC	.9VDC			V 6	6AG5	.6Ω	100Ω	0Ω	.1Ω	#500Ω	#500Ω	100Ω		
V 7	6AL5	0V	-6.5VDC	6.3VAC	0V	-3.5VDC	0V	-2.2VDC			V 7	6AL5	0Ω	130Ω	.1Ω	0Ω	4.7KΩ	0Ω	270KΩ		
V 8	6AH6	-4VDC	2.2VDC	6.3VAC	0V	250VDC	300VDC	2.2VDC			V 8	6AH6	4.7KΩ	2KΩ	.1Ω	0Ω	10KΩ	18KΩ	2KΩ	1KΩ	0Ω
V 9	12AU7	5.3VDC	0V	1.4VDC	6.3VAC	0V	-4VDC	0V		0V	V 9	12AU7	47KΩ	0Ω	300KΩ	.1Ω	.1Ω	Inf.	4.7KΩ	1KΩ	0Ω
V 10	6AU6	-3.8VDC	0V	6.3VAC	0V	100VDC	0V	0V			V 10	6AU6	105KΩ	0Ω	.1Ω	0Ω	110KΩ	0Ω			
V 11	6AU6	0V	0V	6.3VAC	0V	65VDC	65VDC	1VDC			V 11	6AU6	2.4Ω	0Ω	.1Ω	0Ω	#18KΩ	#18KΩ	220Ω		
V 12	6T8	-6VDC	-2.3VDC	-6VDC	0V	6.3VAC	0V	0V	-4VDC	85VDC	V 12	6T8	Inf.	18KΩ	Inf.	0Ω	.1Ω	0Ω	3.9Meg	1220KΩ	
V 13	6Y6GT	0V	#6.3VAC	#200VDC	#215VDC	#3.8VDC	#15VDC	#0V	#25VDC		V 13	6Y6GT	Inf.	#.1Ω	160Ω	1250Ω	#470KΩ	#390Ω	#0Ω	#66Ω	
V 14	6SL7GT	-8.8VDC	#170VDC	#0V	#0V	#300VDC	#3.6VDC	#6.3VAC	#0V		V 14	6SL7GT	#1MΩ	18KΩ	#0Ω	#3.3Meg	4.45KΩ	#6.8KΩ	#.1Ω	#0Ω	
V 15	6C4	150VDC	390VDC	0V	6.3VAC	0V	-35VDC	0V	40VDC		V 15	6C4	#250KΩ	Inf.	.1Ω	0Ω	#2.8Meg	2.7Meg	5KΩ	6KΩ	1KΩ
V 16	6Y6GT	0V	6.3VAC	310VDC	0V	215VDC	0V	0V	30VDC	TOP CAP	V 16	6Y6GT	Inf.	.1Ω	13.3KΩ	1.2Meg	900KΩ	300KΩ	.1Ω	0Ω	TOP CAP
V 17	6SN7GT	-60VDC	250VDC	0V	-7VDC	130VDC	-30VDC	6.3VAC	0V	TOP CAP	V 17	6SN7GT	250KΩ	#95KΩ	0Ω	900KΩ	#90KΩ	100KΩ	47Ω	47Ω	TOP CAP
V 18	6BQ6GT	0V	6.3VAC	120VDC	120VDC	-18VDC	130VDC	0V	6.4VDC	TOP CAP	V 18	6BQ6GT	Inf.	.1Ω	135KΩ	135KΩ	1MΩ	1MΩ	1MΩ	47Ω	TOP CAP
V 19	6BQ6GT	0V	6.3VAC	-18VDC	130VDC	-18VDC	520VDC	0V	6.4VDC	*	V 19	6BQ6GT	Inf.	.1Ω	1MΩ	135KΩ	1MΩ	1MΩ	47Ω	47Ω	TOP CAP
V 20	6W4GT	0V	320VDC	520VDC	0V	320VDC	0V	#0V	#6.3VAC		V 20	6W4GT	Inf.	1250Ω	100KΩ	Inf.	1250Ω	Inf.	#0Ω	#.1Ω	TOP CAP
V 21	1B3GT	* DO NOT MEASURE									V 21	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP
V 22	5U4G	0V	380VDC	0V	330VAC	0V	330VAC	100VDC	380VDC		V 22	5U4G	Inf.	35KΩ	0Ω	55Ω	Inf.	55Ω	#0Ω	35KΩ	
V 23	5U4G	0V	380VDC	320VDC	330VAC	0V	330VAC	370VDC	380VDC		V 23	5U4G	Inf.	35KΩ	12.2KΩ	55Ω	Inf.	55Ω	55Ω	35KΩ	
V 24	16GP4A	0V	.3VDC	330VDC	70VDC	20VDC	6.3VAC				V 24	16GP4A	0Ω	220KΩ	PIN 10 1250Ω	PIN 11 14KΩ	PIN 12 2.2KΩ	PIN 12 1.0	150Ω	35KΩ	

FOCUS CONTROL COUNTER CLOCKWISE  
§ TAKEN WITH VACUUM TUBE VOLTMETER  
# MEASURED FROM JUNCTION OF C2B AND R62  
† MEASURED FROM PIN 8 OF V23  
\* MEASURED FROM PIN 3 OF V20

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. Front panel controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.

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TUBE PLACEMENT CHART

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The end of the high voltage lead should be securely taped and kept away from the chassis. Do not remove the horizontal oscillator tube to disable the high voltage.

VIDEO IF ALIGNMENT

Connect the negative lead of a 3 volt battery to the junction of R35 and R37, connect the positive lead to chassis. During video IF alignment the common lead of the VTVM is connected to -6.3 volts with respect to chassis. Avoid grounding the VTVM case. Turn the tuner approximately 4 or 5 turns clockwise from fully counter-clockwise, a point which causes no spurious indications.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to an ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	24MC (Unmod.)	See note above	DC probe to Point A. Common to Point B.	A1	Adjust for maximum deflection. Attenuate signal generator to maintain 2 volt reading.
2. "	"	22.2MC	"	"	A2	"
3. "	"	26.55MC	"	"	A3	"
4. "	"	22.9MC	"	"	A4	"
5. "	"	25.5MC	"	"	A5	"

OVERALL VIDEO IF RESPONSE CHECK

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Connect a 10KΩ isolating resistor in series with the vertical input lead of the oscilloscope and a 1000MMF capacitor across the vertical input terminals.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Direct	High side to an ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	24MC (10MC SWP)	21.9MC 22.9MC 25.5MC 26.4MC	Point of non-interference	Vert. amp. to Point A. Low side to chassis.		Check for response curve similar to figure 1. If necessary retouch A1 thru A5 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100KΩ (±1%) resistors in series from Point C to chassis. The junction of these two resistors is alignment Point D as shown on the schematic.

NOTE: The ratio detector transformers which are coded red or green have secondary (A9) on the top and the primary (A8) on the bottom. Uncoded transformers have the secondary on the bottom and the primary on top.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
7. .001MFD	High side to pin 1 (grid) of 6AH6 (V8). Low side to chassis.	4.5MC (Unmod.)	Any channel not used locally	DC probe to Point C. Common to chassis.	A6, A7, A8	Adjust for maximum deflection.
8. "	"	"	"	DC probe to Point D. Common to Point E.	A9	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection. See note under SOUND VTVM ALIGNMENT.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. .001MFD	High side to pin 1 (grid) of 6AH6 (V8). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any channel not used locally.	Vert. amp. to Point C. Low side to chassis.	A6, A7, A8	Disconnect stabilizer capacitor C5. Adjust for maximum amplitude and symmetry as per figure 2.
8. "	"	"	"	"	Vert. amp. to Point D. Low side to chassis.	A9	Reconnect capacitor C5. Adjust A9 so 4.5MC occurs at center of crossover lines as per figure 3. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines.

THE RF PORTION OF THIS RECEIVER HAS BEEN PROPERLY ALIGNED AT THE FACTORY AND IS VERY STABLE. ALIGNMENT OF THIS PORTION OF THE RECEIVER SHOULD NOT BE REQUIRED IN THE FIELD.

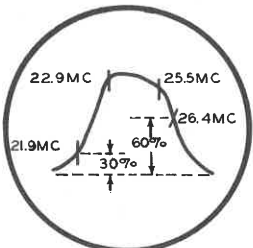


FIG. 1

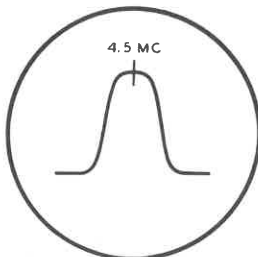


FIG. 2

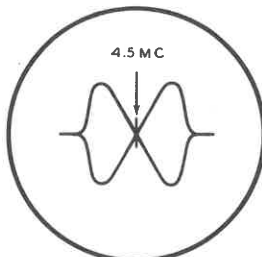
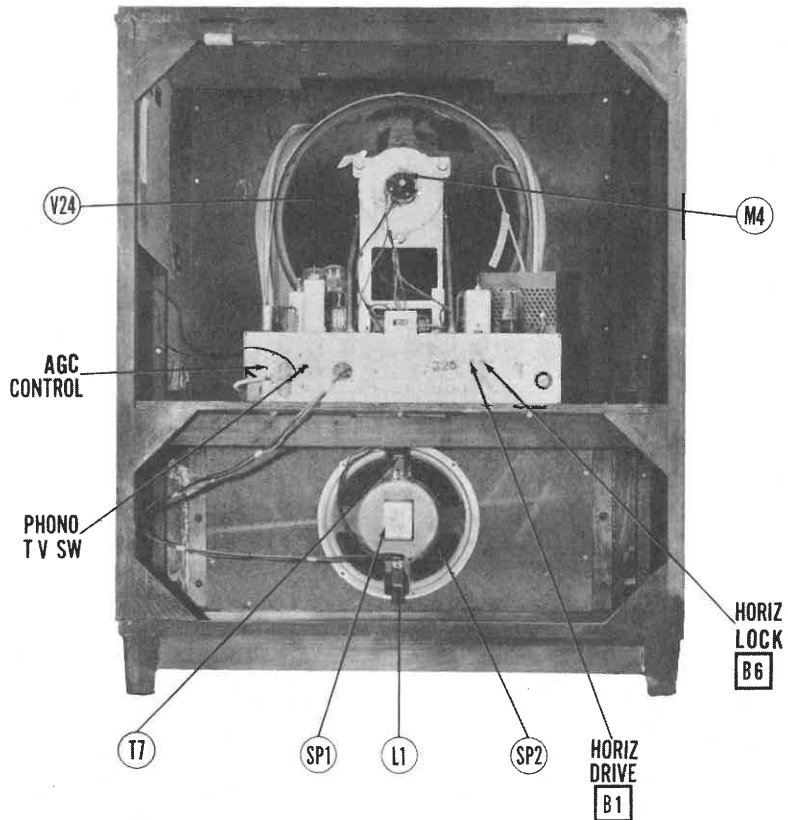
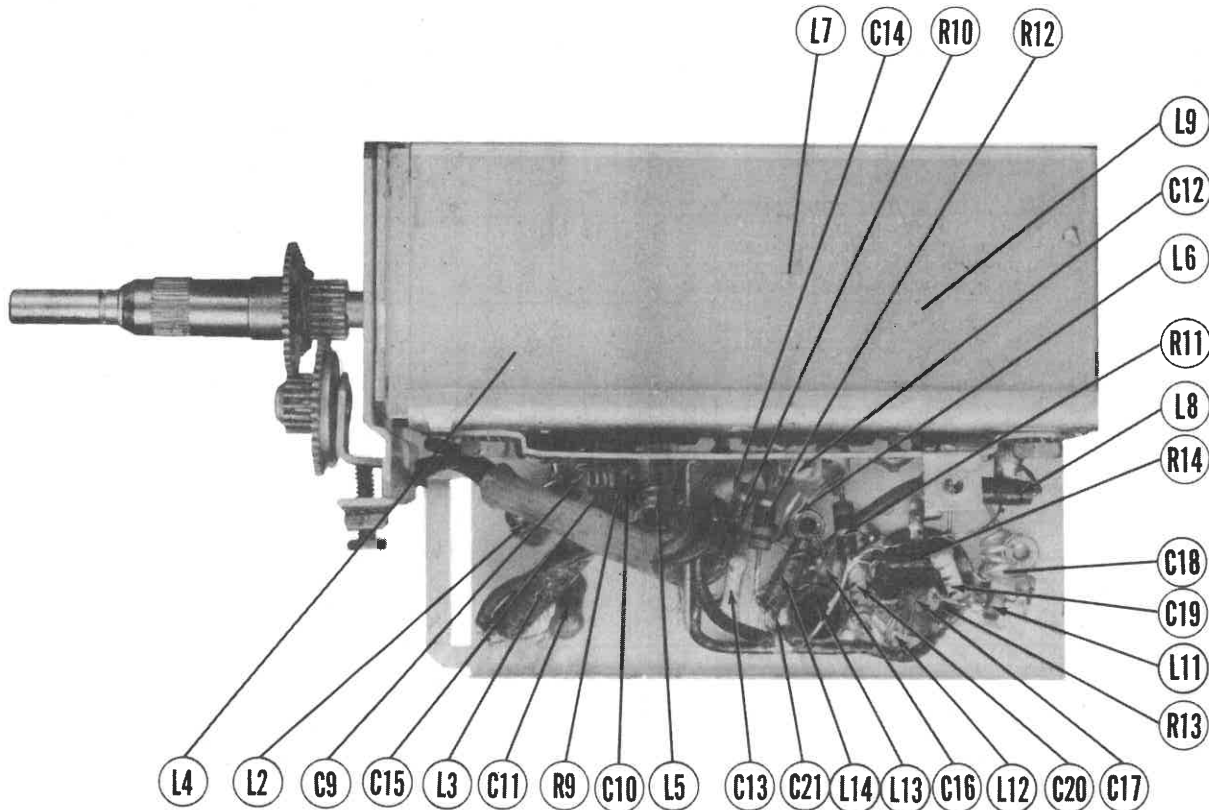


FIG. 3



CABINET-REAR VIEW

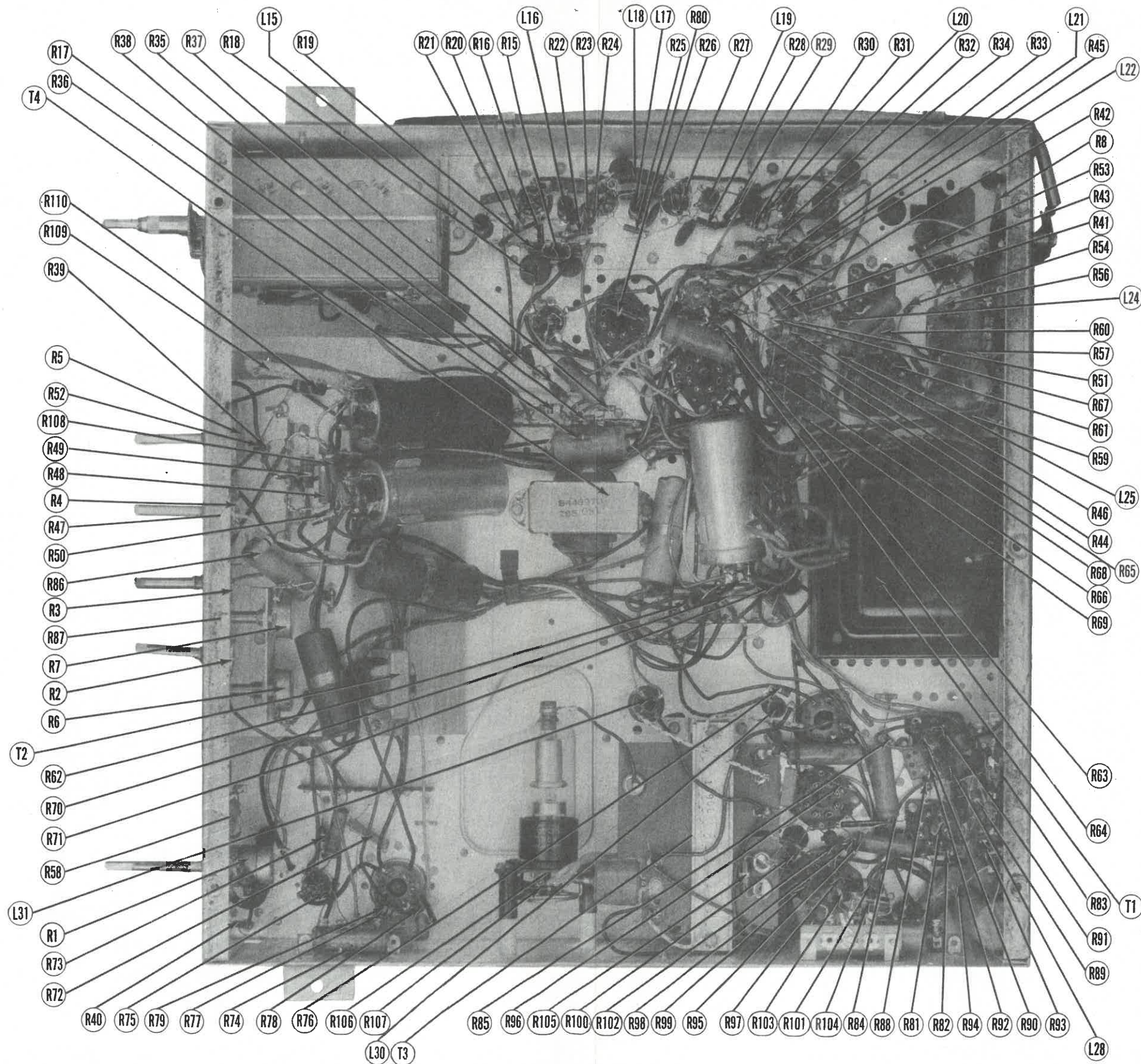


RF TUNER

CROSLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MU, MU, 11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU



CROSLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MU, MU,  
11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION



CROSLLEY MODELS 11-442MU, 11-445MU, 11-446MU, 11-447MU, 11-453MU, 11-459MU, MU, 11-460MU, 11-465WU, 11-470BU, 11-472BU, 11-475BU, 11-476BU, 11-477BU, 11-483BU

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		CROSLLEY PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6CB6	6CB6	7CM	
V2	Converter	12AT7	12AT7	9A	
V3	1st Video IF Amp.	6AU6	6AU6	7BK	
V4	2nd Video IF Amp.	6AU6	6AU6	7BK	
V5A	3rd Video IF Amp.	6AG5	6AG5	7BD	
B	3rd Video IF Amp.	6AU6	6AU6	7BK	
C	3rd Video IF Amp.	6BC5	6BC5	7BD	
V6A	4th Video IF Amp.	6AG5	6AG5	7BD	
B	4th Video IF Amp.	6BC5	6BC5	7BD	
V7	Video Det. -A GC				
V8	Delay	6AL5	6AL5	6BT	
V9	Video Amp.	6AH6	6AH6	7BK	
V9	DC Rest. -Sync. Sep.				
V10	Noise Limiter	12AU7	12AU7	9A	
V11	AGC Keying	6AU6	6AU6	7BK	
V12	Sound IF Amp.	6AU6	6AU6	7BK	
V13	Ratio Det. -AF Amp.	6T8	6T8	9E	
V14	Audio Output	6V6GT	6V6GT	7AC	
V15	Sync. Clipper-Sync. Amp.	6SL7GT	6SL7GT	8BD	
V16	Vert. Oscillator	6C4	6C4	6BG	
V17	Vert. Output	6V6GT	6V6GT	7AC	
V18	Hor. AFC-Hor. Osc.	6SN7GT	6SN7GT	8BD	
V19	Horiz. Output	6BQ6GT	6BQ6GT	6AM	
V20	Damper	6W4GT	6W4GT	4CG	
V21	H. V. Rectifier	1B3GT	1B3GT	3C	
V22A	L. V. Rectifier	5U4G	5U4G	5T	
B	L. V. Rectifier	6U4G	6U4G	4CG	
V23A	L. V. Rectifier	5U4G	5U4G	5T	
B	L. V. Rectifier	6U4G	6U4G	4CG	
V24A	Picture Tube	16GP4A	16GP4A	12D	
B	Picture Tube	18TP4	18TP4	12D	
C	Picture Tube	17BP4	17BP4	12D	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA		CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		CROSLLEY PART No.	AEROVOX PART No.				
C1A	40 475	B-146633	AF88K	UP4450			TVL-2830
B	40 475						▲ Filter
C2A	40 475	B-148429	AF8X81	UPT303			▲ Filter
B	40 250		PR850/100				■ Decoupling
C	100 50						▲ Vert. Output Cath.
C3A	40 475	B-149106	AF82X1H8G				■ Decoupling
B	10 475						▲ Vert. Output Dec.
C	4 350						▲ V. Amp. Screen
D	40 300						Decoupling - Red
C4A	40 300	B-149261	PR8450/40	UP4035C			Decoupling - Yellow
B	10 25		PR825/10				TVA-1204
C5	10 25	B-149261	PR825/10	BR102A			TVA-1204
C6	40 100	B-149262	PR8150/40	BR4015A			TVA-1413
C7	5 25	B-146944	PR8150/4	BR550			TVA-1203
C8	500 10	B-149038	PR812/500	BRH125A			TVA-1132
C9	27	C-137727-49			N080-338-27		N080-338-27
C10	27	C-137727-49			N080-338-27		N080-338-27
C11	1500	C-137727-113	SI1500	D6-152	GP2L-0015	19C20	19C20
C12	1500	C-137727-113	SI1500	D6-152	GP2L-0015	19C20	19C20
C13	1500	C-137727-113	SI1500	D6-152	GP2L-0015	19C20	19C20
C14	1500	C-137727-113	SI1500	D6-152	GP2L-0015	19C20	19C20
C15	4.7	W-137398-6	SI4.7NPO	TCZ-4.7			
C16	6	C-137727-106		TCZ-1			
C17	1	W-137398-2					
C18	6	C-137727-106					
C19	6	C-137727-106					
C20	15	C-137727-41		TCN-15			
C21	1500	C-137727-113	SI1500	D6-152	GP2L-0015	19C20	19C20
C22	100	C-137727-108	SI100	D6-101	GP1K-100	19C11	19C11
C23A	4000	C-144675-6	BPD-2X004	DD-2-502	5W5T1	36C2	36C2
B	4000				1D5D4		
C24	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C25	100	C-137727-108	SI100	D6-101	GP1K-100	19C11	19C11
C26	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C27	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C28	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C29	100	C-137727-108	SI100	D6-101	GP1K-100	19C11	19C11
C30A	4000	C-144675-6	BPD-2X004	DD-2-502	1D5D4	36C2	36C2
B	4000				1D5D4		
C31	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C32	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C33	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C34	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C35	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C36	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C37	.05	39001-14	P288-015	PTE6S15			
C38	.25	39001-87	P488-25	GT2P25			
C39	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C40	5	C-137727-103	SI5	TCZ-4.7			
C41	.05	39001-17	P488-05	DF-503	PTE4S15		
C42	.1	39001-19	P488-1	DF-104	PTE4P1		
C43	.1	39001-19	P288-1	DF-104	PTE4P1		
C44	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C45	5000	C-144675-2	BPD-005	DD-502	1D5D5		
C46	.02	39001-80	P488-02	DF-203	PTE4S2		
C47	2.2	W-137398-4	SI2.2	TCZ-2.2			
C48	1000	C-137727-110	SI1000	D6-102	GP2L-001	19C1	19C1
C49	.005	600	P688-005	D6-502	PTE6D5		
C50	.01	400	P488-01	D6-103	PTE4S1		
C51	.005	600	P688-005	D6-502	PTE6D5		
C52	.005	600	BPD-005	DD-502	1D5D5		
C53	.01	400	P488-01	D6-103	PTE4S1		

CAPACITORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		CROSLLEY PART No.	AEROVOX PART No.				
C54A	250	W-149881	SI250	PC-81	5W5T25	GP2K-250	19C13
B	10000		BPD-01		PTE6S1	821-01	6TM-S1
C	250						
C55	.005	600	39001-11	P688-005	D6-502	PTE6D5	811-005
C56	.01	400	39477-41	P488-01	D6-103	PTE4S1	821-01
C57	120	500	B-137498-17	SI20	D6-120	5R5T15	GP2K-120
C58	3900	500	B-137498-28	1469-0004	D6-391	5R5T4	GP2K-390
C59A	2000	W-149878	P688-005	PC-100	PTE6D5	811-005	6TM-D5
B	5000		P688-005				
C60	.0047	600	39478-39	P688-0047	D6-472	PTE6D5	GP2M-0047
C61	.05	400	C-146434-6	P488-05	D6-472	PTE4S5	4TM-S5
C62	.1	400	39001-19	P488-1	DF-104	PTE4P1	4TM-P1
C63	180	500	B-137498-24	1469-0002	D6-181	5R5T2	GP2K-180
C64	.0022	600	39477-37	P688-0022	D6-222	PTE6D2	GP2M-0022
C65	.25	200	39001-87	P488-25	DF-203	GT2P25	2TM-P25
C66	.02	200	39001-80	P488-02	DF-203	PTE4S2	4TM-S2
C67	.1	400	39001-17	P488-1	DF-104	PTE4P1	4TM-P1
C68	200	1000	B-137498-47	1469-HV-0002			
C69	.01	400	C-148813-2	P488-01		PTE4S1	
C70	1300	500	B-137498-53	1469-0004	D6-391	5R5T4	GP2K-390
C71	390	500	B-137498-56	P688-1	DF-104	PTE6P1	4TM-S1
C72	.1	600	B-148317-3	P688-1	DF-104	PTE6P1	4TM-S1
C73	.5	600	B-148317-2	684-5	DF-503	PTE4S5	4TM-S5
C74	.05	400	39001-17	P488-05	DF-503	PTE4S5	4TM-S5
C75	.05	400	39001-17	P488-05	DF-503	PTE4S5	4TM-S5
C76	.15	400	C-146434-10	P488-15			
C77	.05	400	C-146434-6	P488-05			
C78	220	2000	B-137498-62	P288-1	DF-104	PTE4P1	2TM-P1
C79	.1	200	B-149488-1	HV20B	TVI-502		
C80	500	20000	W-147375	BPD-005	DD-502	1D5D5	811-005
C81	5000		C-144675-2	BPD-005	DD-502	1D5D5	811-005
C82	5000		C-144675-2	BPD-005	DD-502	1D5D5	811-005

\* Not used in all models.  
† Items C54A, C54B, C54C, R60A and R60B are combined into one unit in some models.  
‡ Items C59A, C59B, C59C, R72A, R72B and R72C are combined into one unit in some models.  
§ Not used in chassis 321 and 331.  
¶ Chassis 321 and 331 uses .1MFD. in this application. Mfgs. part # C-146434-3.  
# Chassis 321 and 331 uses .15MFD. in this application. Mfgs. part # C-146434-10.  
† Chassis 321 and 331 uses .2MFD. in this application. Mfgs. part # B-149488-2.  
Note 1. Some models use .002MMF. in this application. Mfgs. part # 39001-74.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		CENTRALAB PART No.	INSTALLATION NOTES
		CROSLLEY PART No.	IRC PART No.		
RIA	1Meg	C-149220		SBB-655-S	Volume Control-Tapped @ 250KΩ-Panel
B	20000				Contrast Control And SW - Rear
R2A	1.5Meg	B-148952	Q11-138	AG-83-S	Vert. Hold Control
B	Shaft	Not req.	RS-2	AK-4	Attach to R2A Per Instructions
R3A	50KΩ	B-148953	Q11-123	AG-44-S	Horizontal Hold Control
B	Shaft	Not req.	RS-2	AK-4	Attach to R3A Per Instructions
R4A	40KΩ	B-148956	Q11-123	AG-43-S	Brightness Control
B	Shaft	Not req.	RS-2	AK-4	Attach to R4A Per Instructions
R5	1500Ω	B-148953	RTV-205		Focus Control - Wire Wound - See Note 1.
R6A	2.5Meg	B-148954	Q11-239	AG-84-S	Height Control
B	Shaft	Not req.	RQ	AK-1	Attach to R6A Per Instructions
R7A	5000Ω	B-148955	Q11-114	AG-19-S	Vert. Linearity Control
B	Shaft	Not req.	RQ	AK-1	Attach to R7A Per Instructions
R8	1000Ω	W-148961	Q11-108		AGC Control - Wire Wound

Note 1. Chassis 321 uses control with part number B-148953 in this application.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		CENTRALAB PART No.	INSTALLATION NOTES
		CROSLLEY PART No.	IRC PART No.		
R9	82Ω		39374-12	BTS-82	RF Amp. Cathode
R10	15KΩ		39374-39		RF Amp. Screen
R11	5600Ω		39374-34		RF Amp. Decoupling
R12	68Ω		39374-11		RF Amp. Decoupling
R13	1Meg		39374-61		Converter Grid
R14	15KΩ		39374-39		Osc. Grid
R15	100Ω 20%		39373-14	BTS-100	Tuner Decoupling
R16	100Ω 20%		39373-14	BTS-100	Decoupling
R17	1000Ω		39373-33	BTS-1000	AGC Network
R18	100Ω 20%		39373-14	BTS-100	Voltage Divider
R19	10KΩ 20%		39373-54	BTS-10K	AGC Network
R20	15KΩ 5%		39375-77		1st Video IF Amp. Grid
R21	68Ω		39374-11		1st Video IF Amp. Cathode
R22	100Ω 20%		39373-14	BTS-100	Decoupling
R23	6800Ω 5%		39375-69		2nd Video IF Amp. Grid
R24	68Ω		39374-11		2nd Video IF Amp. Cathode
R25	100Ω 20%		39373-14	BTS-100	Decoupling
R26	8200Ω 5%		39375-71		3rd Video IF Amp. Grid
R27	100Ω		39374-13	BTS-100	3rd Video IF Amp. Cathode
R28	100Ω 20%		39373-14	BTS-100	4th Video IF Amp. Decoupling
R29	6800Ω 5%		39375-69		4th Video Transformer Shunt
R30	100Ω		39374-14	BTS-100	4th Video IF Amp. Cathode
R31	8200Ω 5%		39375-71		5th Video IF Transformer Shunt
R32	100Ω 20%		39373-14	BTS-100	Video Det. Diode Load
R33	4700Ω 5%		39375-65	BTS-4700-5%	Video Det. Diode Load
R34	100KΩ		39374-49	BTS-100K	AGC Network