

CROSLEY MODELS
11-441MU, 11-461WU, 11-471BU

CROSLEY MODEL 11-471BU	
TRADE NAME	Crosley Models 11-441MU, 11-461WU, 11-471BU (Ch. 320)
MANUFACTURER	Crosley Corp., 1329 Arlington St., Cincinnati, Ohio
TYPE SET	Television Receiver
TUBES	Twenty
POWER SUPPLY	110-120 Volts AC-60 Cycle
TUNING RANGE-CHANNELS	2 thru 13
RATING	1.5 Amp. at 117 Volts AC
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HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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PARTS LIST AND DESCRIPTIONS (Continued)



ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
			CROSLEY PART No.	VIKING PART No.	QUAM PART No.	
	FIELD RES.	V. C. IMP.				
SP1	PM	3.6Ω	138762-5	10J12	10A4A	
SP2	CONE DIA.	V. C. DIA.				
	9½"	1"				

FILTER CHOKE

ITEM No.	RATINGS		INDUCTANCE (0 CURRENT 1000 μ)	REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE		CROSLEY PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.175A	49Ω	1 Henry	B149475	C-2326 ②	C-3196 ②	TR-4200 ②	② Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	CROSLEY PART No.		IRC PART No.	
L2	Ant. Shunt	.5Ω		B-148936-2		CLA	.82 Microhenry
L3	RF Choke	6.1Ω		B-148936-3		CL-1	8.2 Microhenries
L4	Ant. Coil	0Ω		W-149222			Part of L7 and L10
L5	Ant. End Inductor	0Ω		AW-149071			
L6	RF End Inductor	0Ω		AW-149070			
L7	RF Coil	0Ω		W-149222			Part of L4 and L10
L8	Coupling Choke	0Ω		AW-149086			
L9	Osc. Shunt	0Ω		AW-149062			
L10	Osc. Coil	0Ω		W-149222			Part of L4 and L7
L11	Osc. End Inductor	0Ω		AW-149069			
L12	Plate Choke	0Ω		AW-149072			
L13	Conv. Plate Coil	.5Ω		AW-149088			
L14	RF Choke	.1Ω		AW-419063			
L15	1st. Video IF	.3Ω		AW-146763			
L16	2nd. Video IF	.3Ω		AW-146582			
L17	Fil. Choke	0Ω		AW-146855			
L18	3rd. Video IF	.2Ω		AW-146583			
L19	4th. Video IF	.6Ω	.6Ω	AW-147974			
L20	5th. Video IF	.7Ω	.8Ω	AW-148983			
L21	Peaking	11Ω		AW-149357			Wound on 22KΩ resistor (orange dot)
L22	Peaking	19Ω		AW-146889			Blue dot
L23	Peaking	11Ω		AW-149242			Wound on 22KΩ resistor (white dot)
L24	Peaking	19Ω		AW-146889			Blue dot
L25	Sound IF	2.6Ω	2.4Ω	AC-146782			
L26	Ratio Det. Trans.	4.3Ω	.1Ω	C-146874			Tap .5Ω
L27	Feedback Coil	115Ω		AW-148440			
L28	Horiz. Osc.	130Ω	36Ω	AC-146698			
L29	Width Coil	2.8Ω		AW-148973			

FUSES

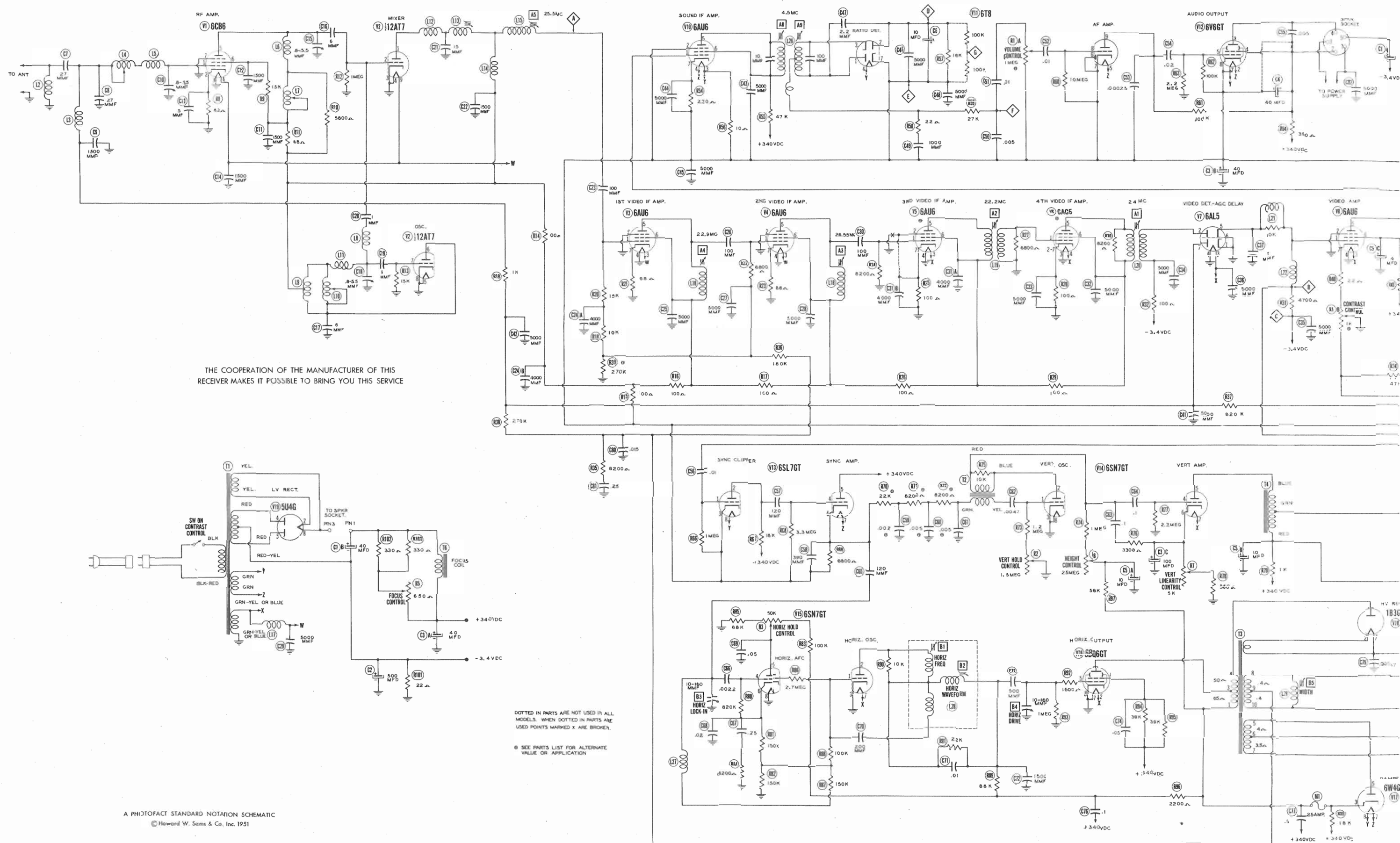
ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			CROSLEY PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG Pigtail	250A	W-144898-1		315.200		

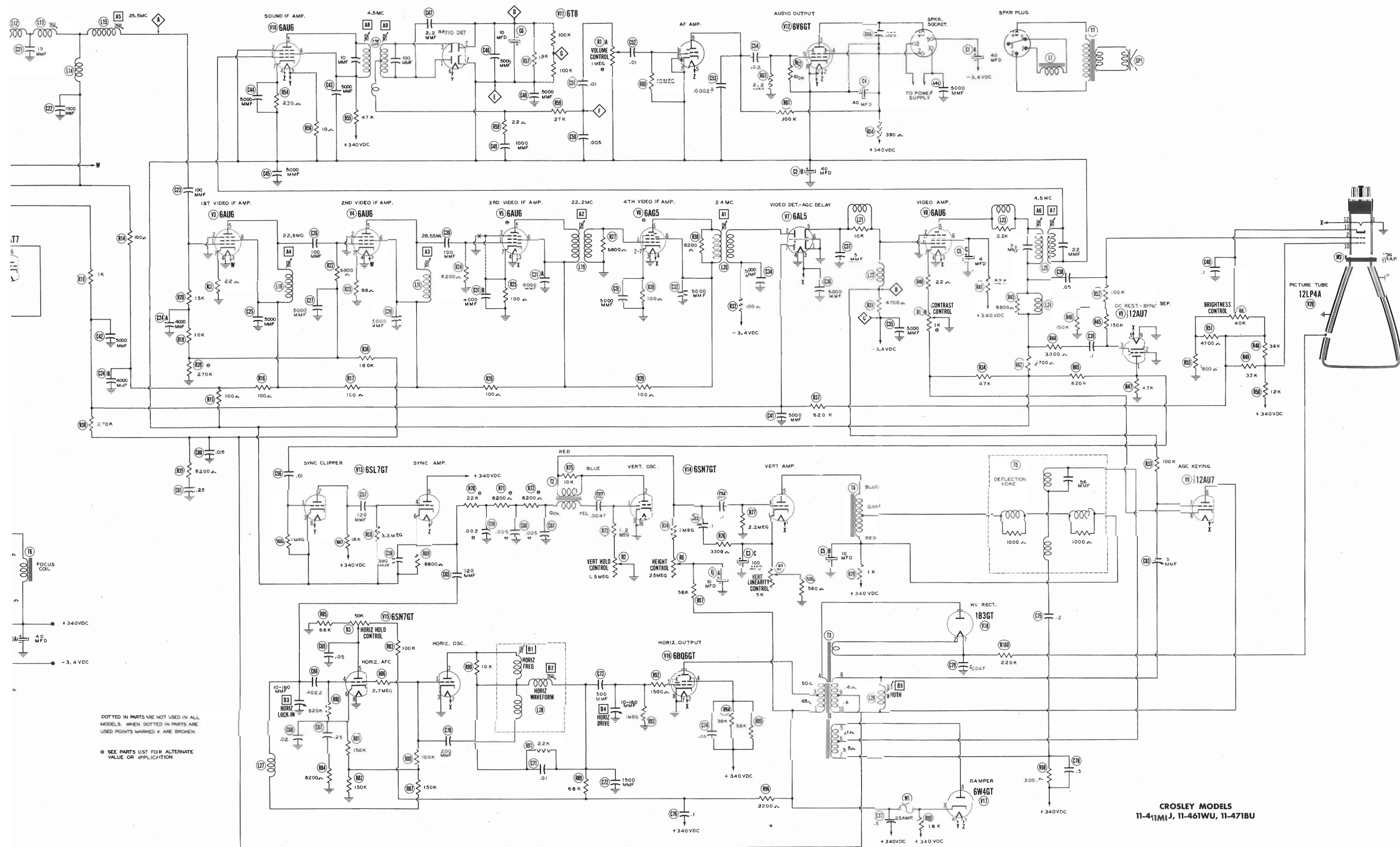
MISCELLANEOUS

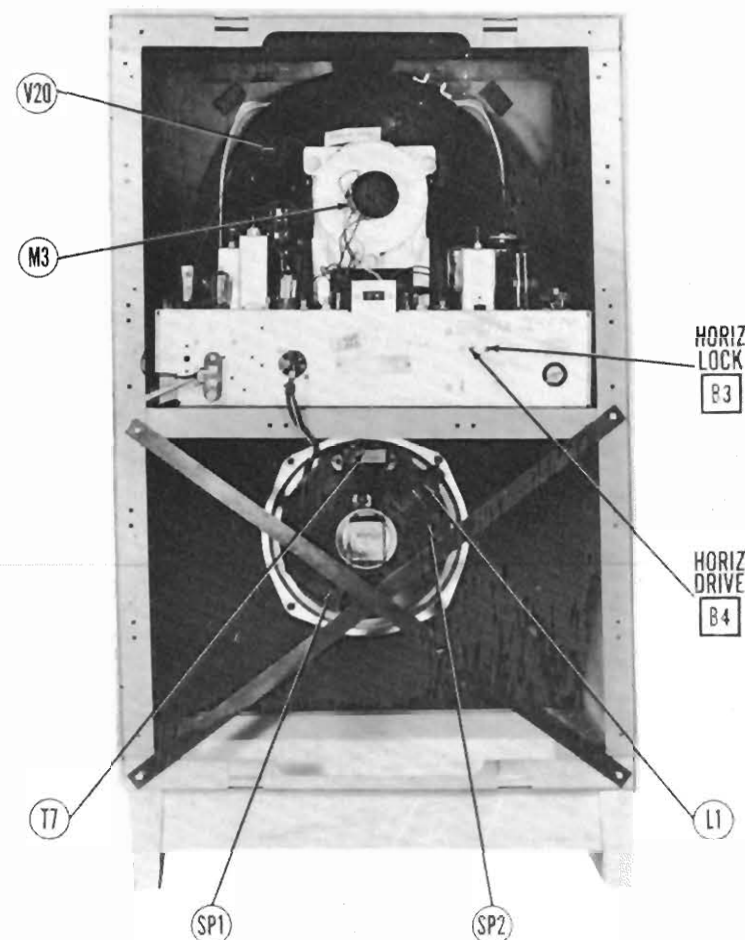
ITEM No.	PART NAME	CROSLEY PART No.	NOTES
M2	RF Tuner	AW-149159	
M3	Ion Trap	B-146480	
B3, 4	Trimmer	B-32386-17	
	Knob	AW-146865	Dual Horiz. Lock and Horiz. Drive (10-160MMF)
	Knob	AW-148866	Off/On Contrast Models 11-441MU, 11-461WU
	Knob	AW-148867	Volume Models 11-441MU, 11-461WU
	Knob	AW-148867	Tuning Models 11-441MU, 11-461WU
	Knob	AW-148862	Off/On Contrast Models 11-471BU
	Knob	AW-148854	Volume Models 11-471BU
	Knob	AW-148853	Tuning Models 11-471BU
	Transmission Line	AW-148980	3 MMF.

TRADE NAME	Cros
MANUFACTURER	Cros
TYPE SET	Tele
TUBES	Twen
POWER SUPPLY	110-11
TUNING RANGE—CHA	
Alignment Instruct	
Disassembly Instr	
Horizontal Sweep t	
Parts List and De	
Photographs	
Cabinet - Rear	
Capacitor and A	

"The listing of any available r
case a recommendation, warre
as to the quality and suitability
parts have been compiled from
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CABINET-REAR VIEW HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

HORIZONTAL OSCILLATOR ALIGNMENT

Turn the set on and tune in a TV station and adjust the contrast control for a normal picture. Turn the horizontal hold control to the mid-position of its range. Adjust the horizontal frequency slug, (B1), until the picture synchronizes horizontally. Connect the vertical input lead of an oscilloscope through a 10MMF. capacitor to terminal 5 of L28. Adjust the horizontal waveform slug, (B2), 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 B2, adjust B1 to keep the picture synchronized. Turn the horizontal hold control to fully counter-clockwise. The picture should remain in synchronization. Adjust B1 counter-clockwise until the picture just falls out of synchronization and then clockwise carefully until one vertical or diagonal line shows in the picture. Turn the hold control to fully counter-clockwise, picture should remain in synchronization. Momentarily remove the signal by tuning to another channel and back again. If more than seven sloping bars are present, adjust the horizontal lock trimmer, (B3), slightly counter-clockwise. If less than 5 bars are present adjust B3 slightly clockwise. Repeat the adjustment of B1 and B3 until 5 to 7 bars are present after signal removal with the hold control at fully counter-clockwise. Check the pull-in range, the picture should pull into synchronization over at least 120°.

HORIZONTAL LINEARITY ADJUSTMENTS

Turn the horizontal drive trimmer, (B4), fully out, (counter-clockwise). If bright vertical lines appear in the raster, turn B4 clockwise just enough to remove them, if not leave the trimmer at minimum capacity. Adjust the width slug, (B5), until the picture is slightly wider than necessary to fill the mask horizontally.

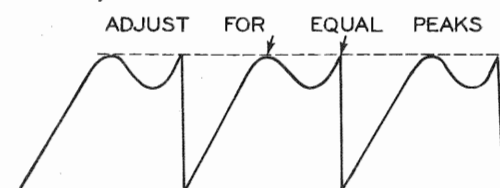
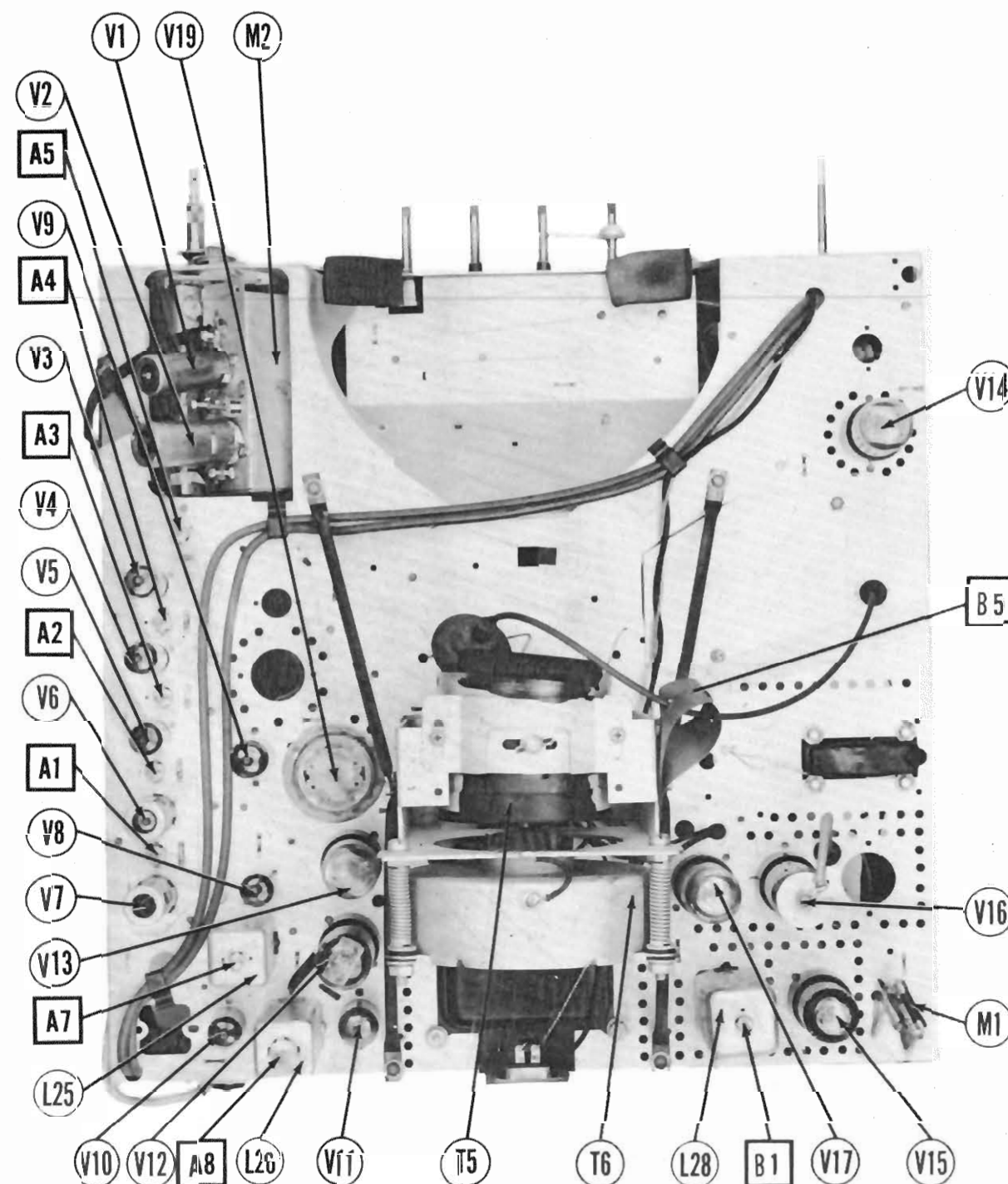


FIG. 4

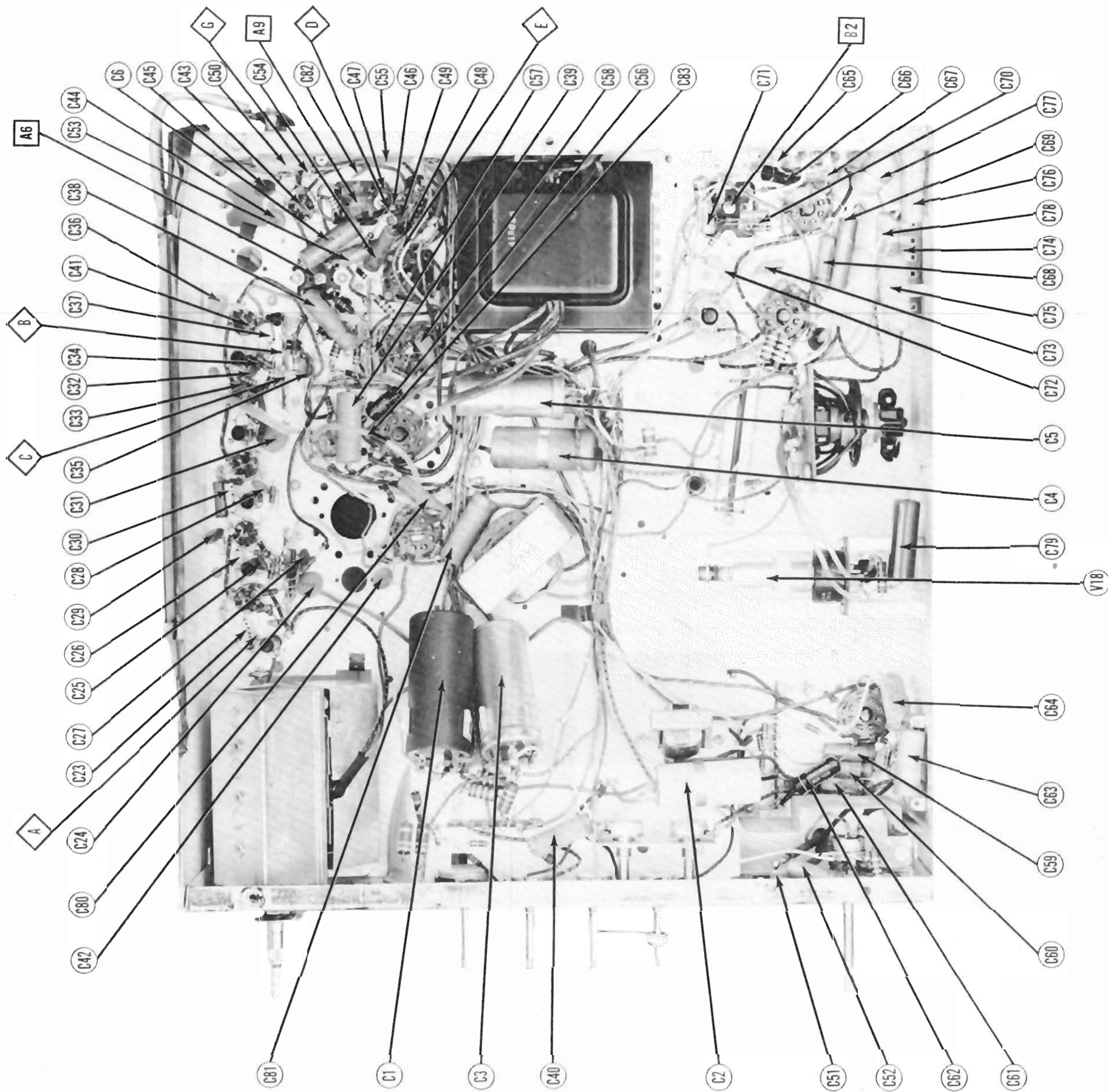


CHASSIS TOP VIEW

CROSLEY MODELS
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CROSLEY MODELS
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CHASSIS BOTTOM VIEW ALIGNMENT IDENTIFICATION

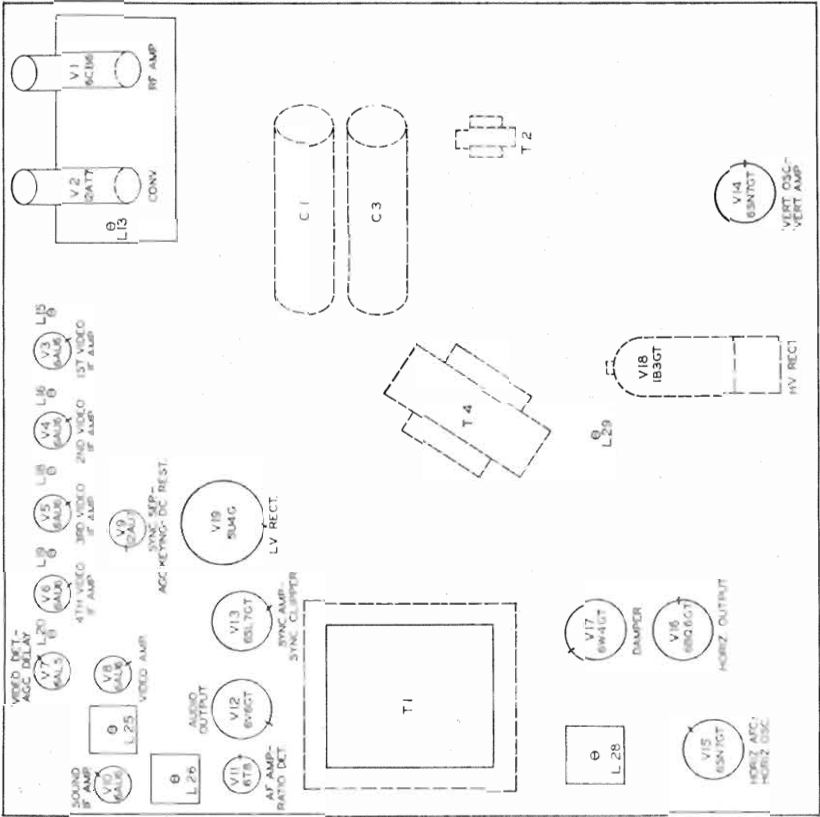


VOLTAGE AND RESISTANCE MEASUREMENTS

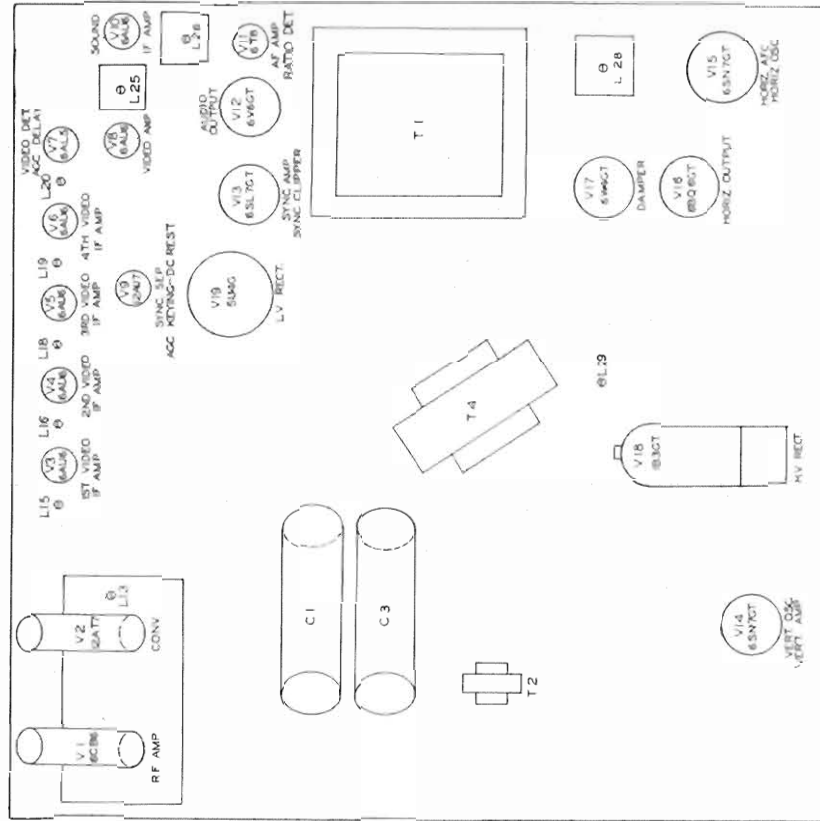
VOLTAGE READINGS											RESISTANCE READINGS										
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	-3.3VDC	8VDC	0V	6.3VAC	125VDC	90VDC	0V			V 1	6CB6	340KΩ	82Ω	0Ω	.1Ω	1255Ω	15KΩ	0Ω		
V 2	12AT7	125VDC	-2.8VDC	0V	0V	0V	125VDC	1-3.5VDC	0V	6.3VAC	V 2	12AT7	1200Ω	1MΩ	0Ω	0Ω	0Ω	1200Ω	15KΩ	0Ω	.1Ω
V 3	6AU6	-9VDC	0V	6.3VAC	0V	125VDC	125VDC	0V			V 3	6AU6	225KΩ	0Ω	.1Ω	0Ω	1200Ω	1200Ω	88Ω		
V 4	6AU6	-9VDC	0V	6.3VAC	0V	125VDC	125VDC	0V			V 4	6AU6	275KΩ	0Ω	.1Ω	0Ω	1300Ω	1300Ω	88Ω		
V 5	6AU6	0V	0V	6.3VAC	0V	120VDC	120VDC	0VDC			V 5	6AU6	8.2KΩ	0Ω	.1Ω	0Ω	1400Ω	1400Ω	100Ω		
V 6	6AG5	0V	0VDC	0V	6.3VAC	120VDC	120VDC	0VDC			V 6	6AG5	.5Ω	100Ω	0Ω	.1Ω	1500Ω	1500Ω	100Ω		
V 7	6AL5	0V	-7VDC	6.3VAC	0V	-7VDC	0V	-1VDC			V 7	6AL5	0Ω	122Ω	.1Ω	0Ω	4.7KΩ	0Ω	350KΩ		
V 8	6AU6	-7VDC	0V	6.3VAC	0V	125VDC	245VDC	3.3VDC			V 8	6AU6	4.7KΩ	0Ω	.1Ω	0Ω	14.7KΩ	182KΩ	1KΩ		
V 9	12AU7	11VDC	0V	6.3VAC	0V	6.3VAC	-14VDC	-7VDC	0V	0V	V 9	12AU7	47KΩ	0Ω	300KΩ	.1Ω	.1Ω	340KΩ	100KΩ	0Ω	0Ω
V 10	6AU6	10V	10V	10V	10V	50VDC	50VDC	1.8VDC			V 10	6AU6	12.4Ω	10Ω	10Ω	1.1Ω	147KΩ	147KΩ	1220Ω		
V 11	6T8	1-3VDC	1-5VDC	1-3VDC	10V	16.3VAC	1-3VDC	10V		95VDC	V 11	6T8	Inf.	118KΩ	Inf.	10Ω	1.1Ω	10Ω	10Meg	100KΩ	
V 12	6V6GT	0V	16.3VAC	110VDC	10V	110VDC	12.8VDC	10V			V 12	6V6GT	Inf.	1.1Ω	11KΩ	164Ω	100KΩ	Inf.	10Ω		
V 13	6SL7GT	1-1VDC	110VDC	10V	10V	1200VDC	12.8VDC	16.3VAC	10V		V 13	6SL7GT	11Meg	118KΩ	10Ω	13.3Meg	1250Ω	16.8KΩ	1.1Ω	10Ω	
V 14	6SN7GT	1-40VDC	70VDC	150VDC	0V	10V	8VDC	8.3VAC	0V		V 14	6SN7GT	2.7Meg	43.5Meg	0Ω	2.2Meg	1250Ω	5.5KΩ	10Ω	0Ω	
V 15	6SN7GT	1-60VDC	150VDC	200VDC	0V	1-12VDC	130VDC	-9.8VDC	0V		V 15	6SN7GT	1.2Meg	41Meg	0Ω	1.1Meg	40KΩ	300KΩ	10Ω	0Ω	
V 16	6SN7GT	1-70VDC	230VDC	200VDC	0V	1-24VDC	20VDC	6.3VAC	0V	Top Cap	V 16	6SN7GT	250KΩ	470KΩ	0Ω	1.1Meg	40KΩ	300KΩ	10Ω	0Ω	Top Cap #65Ω
V 17	6BQ6GT	0V	6.3VAC	0V	150VDC	-24VDC	-24VDC	0V	0V		V 17	6BQ6GT	Inf.	1Ω	Inf.	118KΩ	1Meg	1Meg	0Ω	0Ω	
V 18	6W4GT	0V	230VDC	300VDC	0V	230VDC	0V	16.3VAC	10V	Top Cap	V 18	6W4GT	Inf.	470KΩ	118KΩ	Inf.	11.5KΩ	Inf.	1.1Ω	10Ω	Top Cap #220Ω
V 19	1B3GT	* DO NOT MEASURE				335VAC	0V	335VAC	10V		V 19	1B3GT	PINS 1-8 HAVE INF. RESISTANCE				Inf.	55Ω	Inf.	25KΩ	
V 20	5U4G	0V	370VDC	6.3VAC	0V	6.3VAC	6.3VAC	1.5K V.	370VDC		V 20	5U4G	Inf.	25KΩ	.1Ω	58Ω	Inf.	55Ω	Inf.		
V 21	12LPH4	0V	4VDC	215VDC	53VDC	53VDC	53VDC	53VDC			V 21	12LPH4	0Ω	250KΩ	412KΩ	120KΩ	125KΩ	125KΩ			

ALL MEASUREMENTS TAKEN WITH PICTURE TUBE REMOVED
* MEASURED FROM PIN 8 OF V10
* DO NOT MEASURE
* TAKEN WITH VACUUM TUBE VOLTMETER
** USE EXTREME CAUTION WHEN MEASURING THIS VOLTAGE

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 panels controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.











TOP VIEW



BOTTOM VIEW

CROSLLEY MODELS
11-441MU, 11-461WU, 11-471BU
CHART IN MECHANICAL PART

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							
Set the tuner 4 or 5 turns clockwise from the low frequency end, at a position which causes no spurious responses. Connect a clip lead from the can, (negative terminal), of C1 to the unground lead of R39.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
1. 1000MMF	High side to Point A. Low side to chassis.	24MC (unmod.)	See instructions above.	DC Probe to Point  . Common to Point  .	A1	Adjust for maximum deflection. Attenuate signal gen. to maintain 2 volt reading.	
2. "	"	22.2MC	"	"	A2	"	
3. "	"	26.55MC	"	"	A3	"	
4. "	"	22.9MC	"	"	A4	"	
5. Direct	Across antenna terminals (Low side to grounded lead)	25.5MC	"	"	A5	"	
OVERALL VIDEO IF RESPONSE CHECK							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Direct	Across antenna terminals (low side to grounded lead).	25MC (10MC SWP)	21.9MC 22.9MC 25.5MC 26.4MC	See instructions above	Vert. Amp. thru 22KΩ to Point  . Low side to chassis.		Check for response curve similar to fig. 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 D to Point E. The junction of these two resistors is alignment Point G as shown on the schematic. During sound IF alignment the common lead of the VTVM is connected to approximately 150 volts with respect to chassis. Avoid touching or grounding the VTVM case.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
7. 1000MMF	High side to pin 1, (Grid) of 6AU6, (V8). Low side to chassis.	4.5MC (400% Mod.)	Any channel not used locally.	DC Probe to Point  . Common to Point  .	A6, A7, A8	Adjust for maximum deflection.	
8. "	"	"	"	DC Probe to Point  . Common to Point  .	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.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. 1000MMF	High side to pin 1, (Grid) of 6AU6, (V8). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any channel not used locally.	Vert. Amp. to Point  . Low side to chassis.	A6, A7, A8	Disconnect stabilizer capacitor C6. Adjust for maximum amplitude and symmetry as per fig. 2.
8. "	"	"	"	"	Vert. Amp. to Point  . Low side to chassis.	A9	Reconnect capacitor C6. Adjust A9 so 4.5MC occurs at center of crossover lines as per fig. 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 SHOULD NOT BE REQUIRED IN THE FIELD.							
AGC NEUTRALIZING CAPACITOR ADJUSTMENTS							
Adjust C83 (transmission line) by altering the wire spacing in the center of the wires. Adjust with no signal input to the receiver. Remove one of the video IF tubes from its socket and set the contrast control to fully counter-clockwise. Connect a VTVM between pin 8 of V9 and chassis. Neutralization is accomplished when no voltage change occurs when a .1MFD. capacitor is intermittently connected between pin 7, (Grid), of V9 and chassis.							

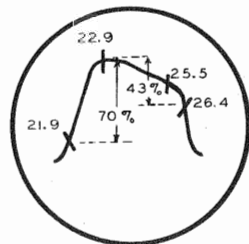


FIG. 1

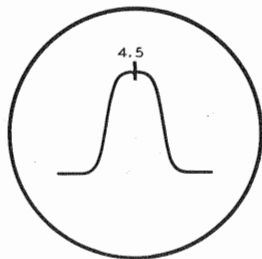


FIG. 2

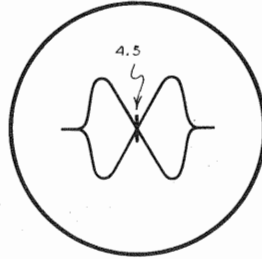
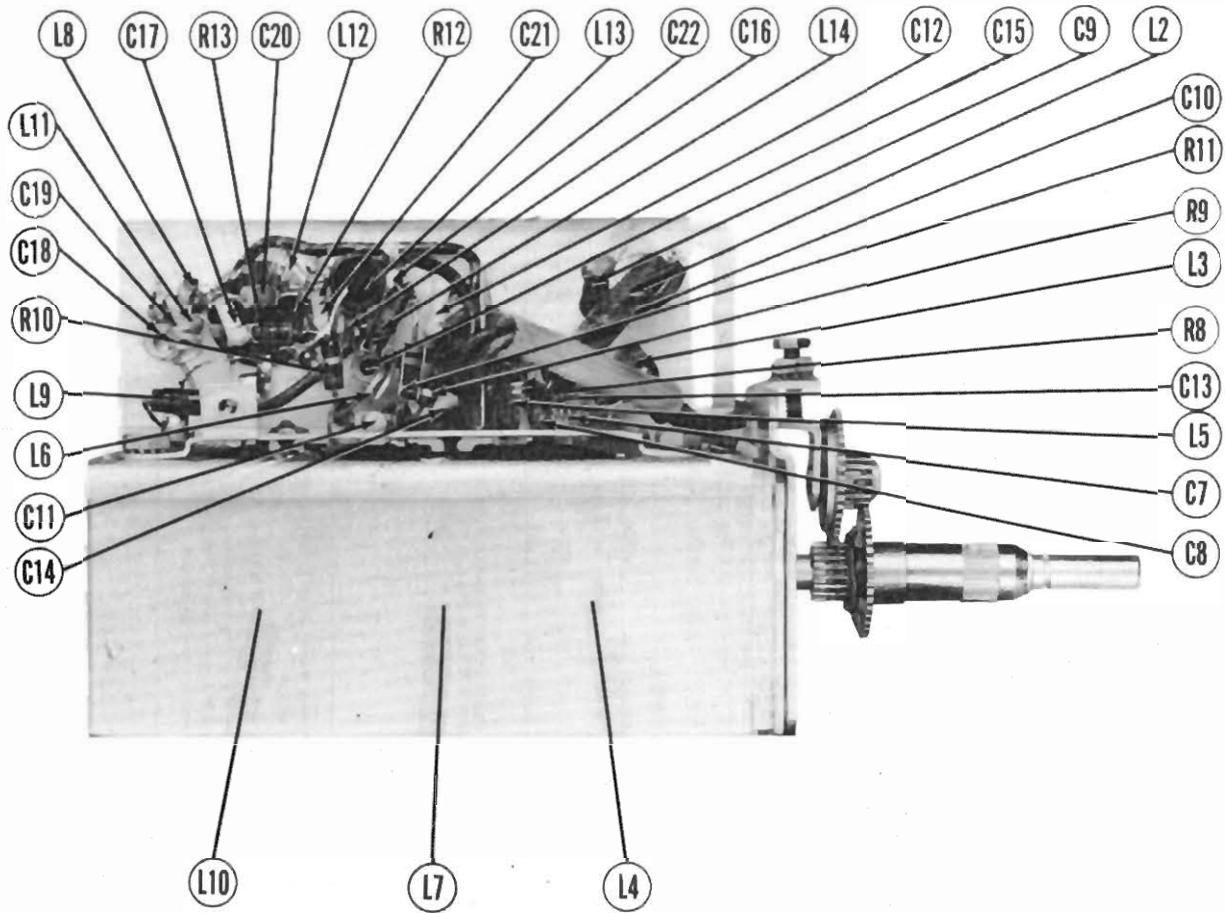


FIG. 3



RF TUNER

DISASSEMBLY INSTRUCTIONS

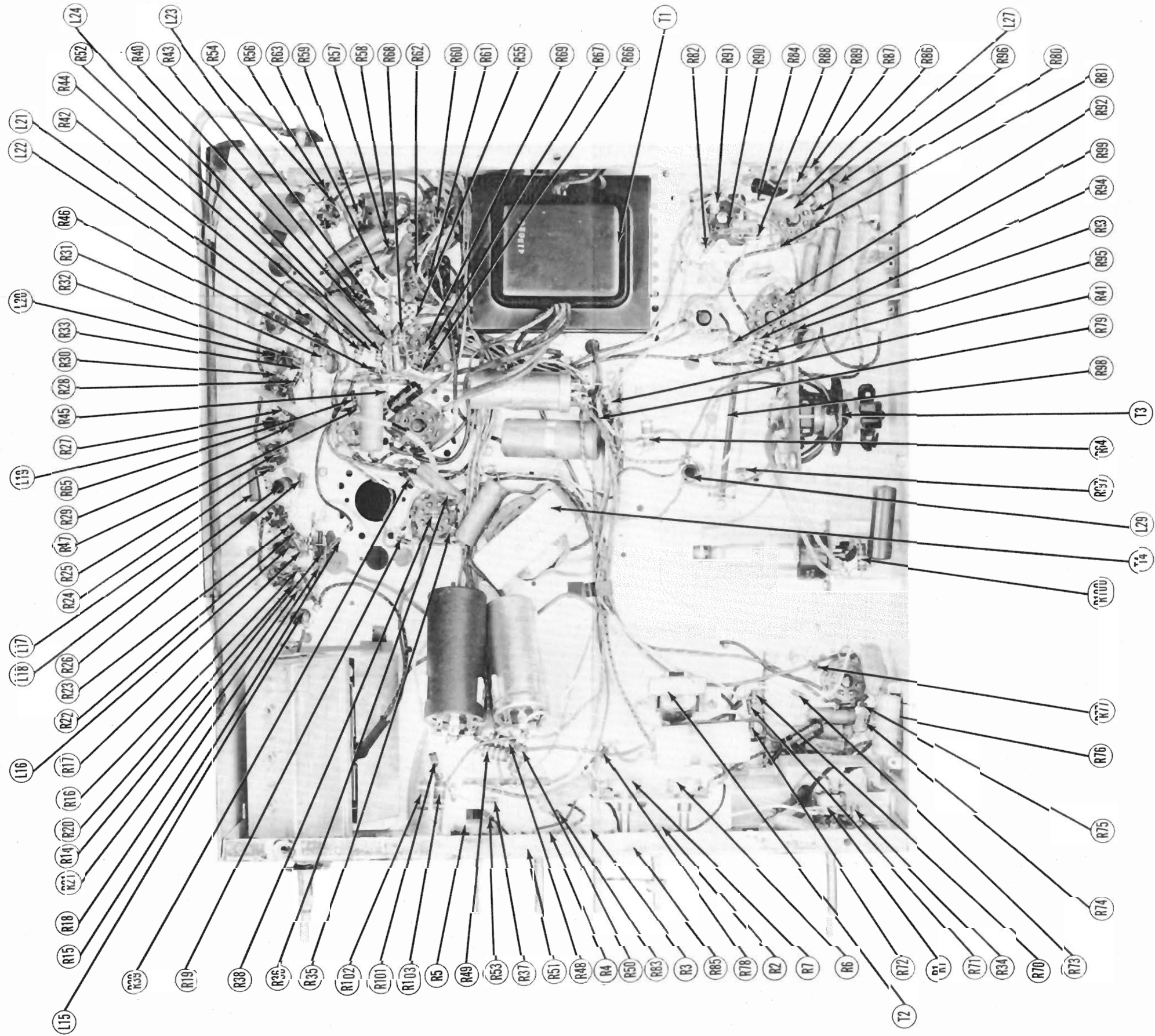
1. Remove three push-on type control knobs and one channel pointer.
2. Remove four 1/4" hex head screws from rear cover. Remove rear cover.
3. Disconnect built-in antenna.
4. Disconnect speaker.
5. Remove five 7/16" hex head bolts from chassis. Remove chassis.
6. Remove four 1/4" hex nuts from speaker. Remove speaker.

NOTE: FOR PICTURE TUBE REMOVAL IT IS NECESSARY TO REMOVE THE CHASSIS AS OUTLINED ABOVE.

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CHASSIS BOTTOM VIEW-INDUCTOR AND RESISTOR IDENTIFICATION



PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		CROSLLEY PART No.	STANDARD REPLACEMENT		
V1	RF Amplifier	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.	6AU6	6AU6	7BK	
B	3rd. Video IF Amp.	6AG5	6AG5	7BD	
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 Detector - AGC Delay	6AL5	6AL5	6BT	
V8	Video Amplifier	6AU6	6AU6	7CM	
V9	AGC Keying - Sync. Sep. - DC Rest.	12AU7	12AU7	9A	
V10	Sound IF Amp.	6AU6	6AU6	7BK	
V11	Ratio Detector - AF Amplifier	6BT	6BT	9E	
V12	Audio Output	6V6GT	6V6GT	7AL	
V13	Sync. Clipper - Sync. Amplifier	6SL7GT	6SL7GT	8BD	
V14	Vert. Oscillator - Vert. Amplifier	6SN7GT	6SN7GT	8BD	
V15	Horiz. AFC - Horiz. Oscillator	6SN7GT	6SN7GT	8BD	
V16	Horiz. Output	6BQ6GT	6BQ6GT	6AM	
V17	Damper	6W4GT	6W4GT	4CG	
V18	HV Rectifier	1B3GT	1B3GT	3C	
V19	LV Rectifier	5U4G	5U4G	5T	

CATHODE-RAY TUBE

ITEM No.	REPLACEMENT DATA			RMA BASE TYPE	NOTES
	CROSLLEY PART No.	SYLVANIA PART No.	THOMAS PART No.		
V20	12LP4A	12LP4A	12LP4A	12D	1 Use single magnet ion trap

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		IDENTIFICATION CODES
		CROSLLEY PART No.	AEROVOX PART No.	
C1A	40 475	B-146633	AFH2-72	TVL-2830
B	40 475	B-146633	AFH2-72	TVL-2830
C2	500 10	B-146026	PR512/500	TVL-2830
C3A	40 475	B-146061	AFH3-182	TVL-2830
B	40 250	B-146061	AFH3-182	TVL-2830
C4	40 300	B-146725	PR5450/40	TVL-2830
C5A	10 475	B-146105	AFH3-160	TVL-2830
B	10 475	B-146105	AFH3-160	TVL-2830
C6	10 25	B-146211	PR525/10	TVL-2830
C7	27	C-137727-49	TCZ-27	NP0K-270
C8	1500	C-137727-113	TCZ-27	NP0K-270
C9	5-5.5	B-146895-1	SI1500	GP2L-152
C10	1500	C-137727-113	SI1500	GP2L-152
C11	1500	C-137727-113	SI1500	GP2L-152
C12	1500	C-137727-113	SI1500	GP2L-152
C13	5	W-137369-6	SI1500	GP2L-152
C14	1500	C-137727-113	SI1500	GP2L-152
C15	8-5.5	B-146895-1	SI1500	GP2L-152
C16	6	C-137727-106	TCZ-4.7	NP0K-060
C17	6	C-137727-106	TCZ-4.7	NP0K-060
C18	8-5.5	B-146895-1	SI1500	GP2L-152
C19	6	C-137727-106	TCZ-4.7	NP0K-060
C20	1	W-137369-2	SI1500	GP2L-152
C21	15	C-137727-41	TCZ-15	NP0K-150
C22	1500	C-137727-113	SI1500	GP2L-152
C23	100	C-137727-108	SI1500	GP2L-152
C24A	4000	C-144675-6	BPD-2X004	SHK-2D4
B	4000	C-144675-6	BPD-2X004	SHK-2D4
C25	5000	C-144675-2	BPD-005	SHK-050
C26	100	C-137727-108	SI1500	GP2L-152
C27	5000	C-144675-2	BPD-005	SHK-050
C28	5000	C-144675-2	BPD-005	SHK-050
C29	5000	C-144675-2	BPD-005	SHK-050
C30	100	C-137727-108	SI1500	GP2L-152
C31A	4000	C-144675-6	BPD-2X004	SHK-2D4
B	4000	C-144675-6	BPD-2X004	SHK-2D4
C32	5000	C-144675-2	BPD-005	SHK-050
C33	5000	C-144675-2	BPD-005	SHK-050
C34	5000	C-144675-2	BPD-005	SHK-050
C35	5000	C-144675-2	BPD-005	SHK-050
C36	5000	C-144675-2	BPD-005	SHK-050
C37	5	C-137727-103	SI1500	GP2L-152
C38	5	C-137727-103	SI1500	GP2L-152
C39	1 400	39001-17	P488-1	DF-104
C40	1 400	39001-19	P488-1	DF-104
C41	5000	C-144675-2	BPD-005	SHK-050
C42	5000	C-144675-2	BPD-005	SHK-050
C43	5000	C-144675-2	BPD-005	SHK-050
C44	5000	C-144675-2	BPD-005	SHK-050
C45	5000	C-144675-2	BPD-005	SHK-050
C46	5000	C-144675-2	BPD-005	SHK-050
C47	2.2	W-137369-4	SI1500	GP2L-152
C48	5000	C-144675-2	BPD-005	SHK-050
C49	1000	C-137727-110	SI1500	GP2L-152
C50	0.05 600	39001-11	P688-005	DF-503

CAPACITORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		CROSLLEY PART No.	AEROVOX PART No.	
C51	01 400	39001-13	P488-1	DF-103
C52	01 400	39001-13	P488-1	DF-103
C53	00025 600	39001-73	P688-0025	DF-203
C54	02 400	39001-80	P488-02	DF-203
C55	005 400	39001-11	P688-005	DF-203
C56	01 400	39477-41	P488-01	DF-103
C57	120 500	B-137498-17	1468-0015	DF-121
C58	360 500	B-147398-28	1469-0004	DF-121
C59	002 600	39001-74	P688-002	DF-202
C60	005 600	39001-11	P688-005	DF-202
C61	005 600	39001-11	P688-005	DF-202
C62	0047 600	39478-39	P688-0047	DF-472
C63	1 400	C-146434-3	P488-1	DF-104
C64	1 400	39001-19	P488-1	DF-104
C65	120 500	B-137498-17	1468-0015	DF-121
C66	0022 600	39477-37	P688-0022	DF-222
C67	25 200	39001-87	P488-25	DF-203
C68	02 200	39001-80	P488-02	DF-203
C69	05 400	39001-17	P488-05	DF-503
C70	200 1000	B-137498-47	P488-01	DF-103
C71	01 400	C-148813-1	P488-01	DF-103
C72	1500 500	B-137498-58	1467-0015	DF-152
C73	500 500	B-137498-3	1468-0005	DF-501
C74	05 200	39001-17	P288-05	DF-503
C75	1 200	B-148317-4	P288-1	DF-104
C76	1 200	39001-19	P288-1	DF-104
C77	5 200	B-148317-2	P288-5	DF-104
C78	5 200	B-148317-2	P288-5	DF-104
C79	00047 1000	W-147694	10084-0005	DF-1005
C80	015 200	39001-14	P288-015	DF-104
C81	25 200	39001-87	P488-25	DF-203
C82	5000	C-144675-2	BPD-005	DF-503
C83	2	AW-148580	BPD-005	DF-503

1 Some models combine C55, C60, C61, R70, R71, R72 in one unit. (Mfgs. Part # W-148579)

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		INSTALLATION NOTES
		CROSLLEY PART No.	IRC PART No.	
R1A	1Meg	B-148954	RTV-24	Volume Control - Front
B	1000K	B-148954	RTV-24	Contrast Control - Rear
C	Shaft end	B-148954	RTV-24	Attach per instructions in Concentrik
D	Switch	B-148954	RTV-24	Attach per instructions in Concentrik
R2A	1.5Meg	B-148952	AG-83-S	Vert. Hold Control - See Note 1
B	Shaft	Not req.	AG-83-S	Attach to R2A per instructions
R3A	50K	B-148953	AG-44-S	Horiz. Hold Control
B	Shaft	Not req.	AG-44-S	Attach to R3A per instructions
R4A	40K	B-148956	AG-43-S	Brightness Control
B	Shaft	Not req.	AG-43-S	Attach to R4A per instructions
R5	500K	B-148951	AG-750	Focus Control - Wire Wound
R6A	2.5Meg	B-148954	AG-84-S	Height Control
B	Shaft	Not req.	AG-84-S	Attach to R6A per instructions
R7A	5000K	B-148955	AG-10	Vert. Linearity Control
B	Shaft	Not req.	AG-10	Attach to R7A per instructions

* Some models use Control having Part # C-148954.

† Additional parts to be used with Concentrik.

Note 1 This unit has a stop arm which is attached to the shaft. When replacing, attach stop to prevent use of more than 750K.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		CROSLLEY PART No.	IRC PART No.	
R8	520	39374-12	BTS-82	RF Amp. Cathode
R9	15K	39374-39	BTS-5600	RF Amp. Screen
R10	5000K	39374-34	BTS-5600	Parasitic Suppressor
R11	60K	39374-11	BTS-100	Mixer Grid
R12	1Meg	39374-61	BTS-100	One. Grid
R13	15K	39374-26	BTS-100	Decoupling
R14	100K	39374-14	BTS-100	Decoupling
R15	100K	39374-14	BTS-100	Decoupling
R16	100K	39374-14	BTS-100	Decoupling
R17	100K	39374-14	BTS-100	Decoupling
R18	10K	39374-54	BTS-10K	AGC Network
R19	1000K	39374-33	BTS-1000	AGC Network
R20	15K	39374-77	BTS-100	1st. Video IF Amp. Grid
R21	60K	39374-11	BTS-100	1st. Video IF Amp. Cathode
R22	6000K	39374-69	BTS-100	2nd. Video IF Amp. Grid
R23	60K	39374-11	BTS-100	2nd. Video IF Amp. Cathode
R24	8200K	39374-71	BTS-100	3rd. Video IF Amp. Grid
R25	100K	39374-13	BTS-100	3rd. Video IF Amp. Cathode
R26	100K	39374-14	BTS-100	Decoupling
R27	6000K	39374-69	BTS-100	4th. Video IF Transformer Shunt
R28	100K	39374-13	BTS-100	4th. Video IF Amp. Cathode
R29	100K	39374-14	BTS-100	4th. Video IF Decoupling
R30	5200K	39374-71	BTS-100	5th. Video IF Transformer Shunt
R31	4700K	39374-69	BTS-100	Video Det. Diode Load
R32	100K	39374-14	BTS-100	Bias Network
R33	100K	39374-49	BTS-100K	Keyed AGC Grid
R34	47K	39374-133	BTS-8200	Keyed AGC Cathode
R35	8200K	39374-36	BTS-8200	AGC Network
R36	180K	39374-103	BTS-820K-5%	AGC Network
R37	820K	39374-119	BTS-820K-5%	AGC Network
R38	270K	39374-107	BTS-270K-5%	AGC Network
R39	270K	39374-107	BTS-270K-5%	AGC Network - See Note 2
R40	22K	39374-5	BTS-22K	Video amp. Cathode
R41	82K	39374-224	BTA-1700-5%	Video Amp. Screen
R42	4700K	39374-213	BTA-4700-5%	Video Amp. Plate
R43	6000K	39374-35	BTS-6000	Video Peak-to-Peak Shunt
R44	3300K	39374-31	BTS-3300	Isolation
R45	150K	39374-51	BTS-150K	DC Restorer Diode Load
R46	150K	39374-51	BTS-150K	DC Restorer Diode Load

RESISTORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES	
		CROSLLEY	IRC		
	RESISTANCE	WATTS	PART No.	PART No.	
R47	47KΩ	1	39374-45	BTS-47K	Voltage Divider
R48	39KΩ	2	39374-220	BTB-39K	Voltage Divider
R49	33KΩ	2	39374-219	BTB-33K	Voltage Divider
R50	12KΩ	2	39374-214	BTB-12K	Voltage Divider
R51	4700Ω	1	39374-121	BTA-4700	Brightness Control Shunt
R52	100KΩ		39374-49	BTS-100K	Picture Tube Grid
R53	1600Ω		39374-28	BTS-1600	Picture Tube Cathode
R54	220Ω		39374-17	BTS-220	Sound IF Amp. Cathode
R55	47KΩ	1	39374-133	BTA-47K	Sound IF Amp. Decoupling
R56	10Ω		39373-1		Hum Balancing
R57	18KΩ	5%	39375-79	BTS-18K-5%	Ratio Det. Diode Load
R58	22Ω		39374-5		Balancing
R59	27KΩ		39374-42	BTS-27K	De-emphasis
R60	10Meg	20%	39373-107	BTS-10Meg	AF Amp. Grid
R61	100KΩ		39374-49	BTS-100K	AF Amp. Plate
R62	100KΩ	5%	39375-97	BTS-100K-5%	Output Grid
R63	2.2Meg	5%	39375-129	BTS-2.2Meg-5%	Voltage Divider
R64	390Ω	2	39374-196	BTB-390	Decoupling
R65	820KΩ		39374-60	BTS-820K	Sync. Sep. Plate
R66	1Meg	20%	39373-92	BTS-1Meg	Sync. Clipper Grid
R67	18KΩ		39374-40	BTS-18KΩ	Sync. Clipper Plate
R68	3.3Meg	20%	39373-100	BTS-3.3Meg	Sync. Amp. Grid
R69	6800Ω		39374-35	BTS-6800	Sync. Amp. Cathode
R70	22KΩ		39374-41	BTS-22K	Integrator
R71	8200Ω		39374-36	BTS-8200	Integrator
R72	8200Ω		39374-36	BTS-8200	Integrator
R73	1.2Meg		39374-63	BTS-1.2Meg	Vert. Osc. Grid
R74	1Meg		39374-51	BTS-1Meg	Vert. Osc. Plate
R75	10KΩ	20%	39374-37	BTS-10K	Vert. Osc. Transformer Shunt
R76	3300Ω		39374-31	BTS-3300	Vert. Peaking
R77	2.2Meg		39374-69	BTS-2.2Meg	Vert. Amp. Grid
R78	560Ω		39374-22	BTS-560	Vert. Amp. Cathode
R79	1000Ω	20%	39373-33	BTS-1000	Vert. Amp. Decoupling
R80	820KΩ		39374-60	BTS-820K	Horiz. AFC Grid
R82	150KΩ		39374-51	BTS-150K	Horiz. AFC Cathode
R82	150KΩ		39374-51	BTS-150K	Horiz. AFC Cathode
R83	100KΩ		39374-137	BTA-100K	Horiz. AFC Plate
R84	8200Ω		39374-36	BTS-8200	Horiz. AFC Filter
R85	68KΩ	1	39374-135	BTA-68K	Voltage Divider
R86	2.7Meg		39374-71	BTS-2.7Meg	Voltage Divider
R87	150KΩ		39374-51	BTS-150K	Horiz. Feedback
R88	100KΩ	5%	39375-97	BTS-100K-5%	Horiz. Osc. Grid
R89	68KΩ		39374-135	BTA-68K	Horiz. Osc. Plate
R90	10KΩ		39374-37	BTS-10K	Horiz. Osc. Coil Shunt
R91	22KΩ		39374-41	BTS-22K	Horiz. Osc. Coil Shunt
R92	150Ω		39374-27		Parasitic Suppressor
R93	1Meg	20%	39373-92	BTS-1Meg	Horiz. Output Grid
R94	39KΩ	2	39374-220	BTB-39K	Horiz. Output Screen
R95	33KΩ	2	39374-219	BTB-33K	Horiz. Output Screen
R96	2200Ω		39374-29	BTS-2200	Decoupling
R97	50KΩ		39374-46	BTS-56K	Vert. Osc. Decoupling
R98	1300Ω	15	B-14627	2D-1250	Damper Filter - Wire Wound
R99	18KΩ	1	39374-46	BTS-18K	Voltage Divider
R100	220KΩ	1	39374-161		HV Filter
R101	22Ω	1	39374-63	BW-1-22	Bias Network
R102	330Ω	2	39374-195	BTB-330	Focus Coil Shunt
R103	330Ω	2	39374-195	BTB-330	Focus Coil Shunt