

RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)

RCA VICTOR MODEL 730TV1

TRADE NAME	RCA Victor, Models 730TV1, 730TV2 (Ch. KCS 27-1)	
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, New Jersey	
TYPE SET	AM-FM-Phono-TV Receiver	
TUBES	Thirty	
POWER SUPPLY	115 Volts-60 Cycles AC	
TUNING RANGE	TV Channels 1 thru 13 (44-88MC, 174-216MC) AM 540-1600KC FM 88-108MC	RATING: TV 2.44 Amp. @ 117 Volts AC Radio .6 Amp. @ 117 Volts AC

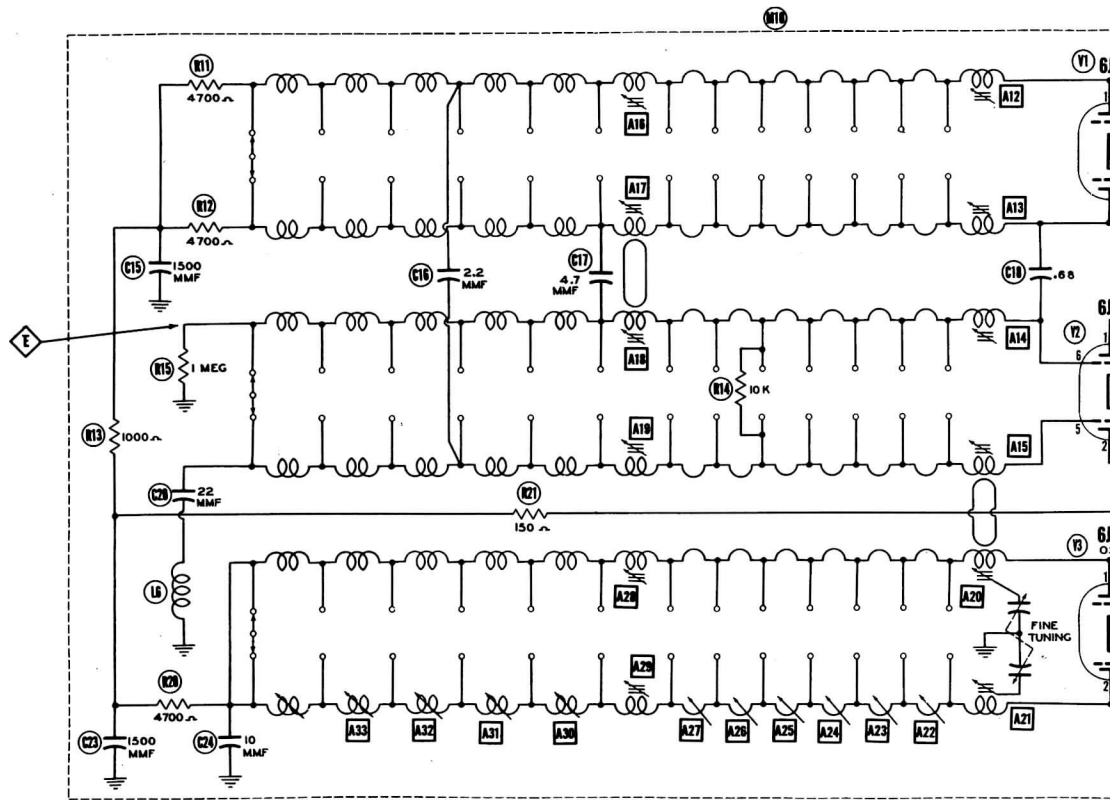
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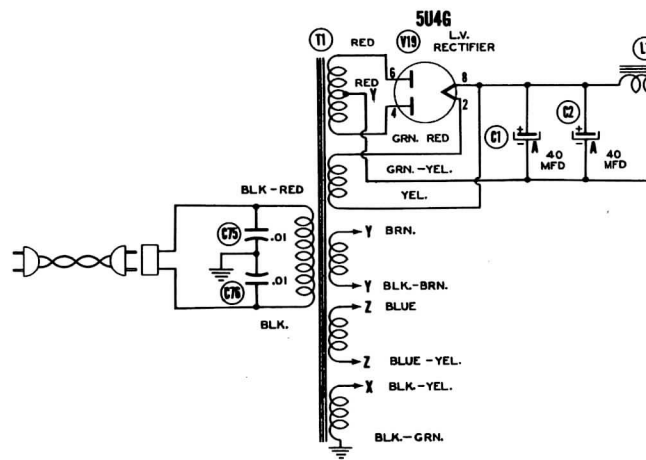
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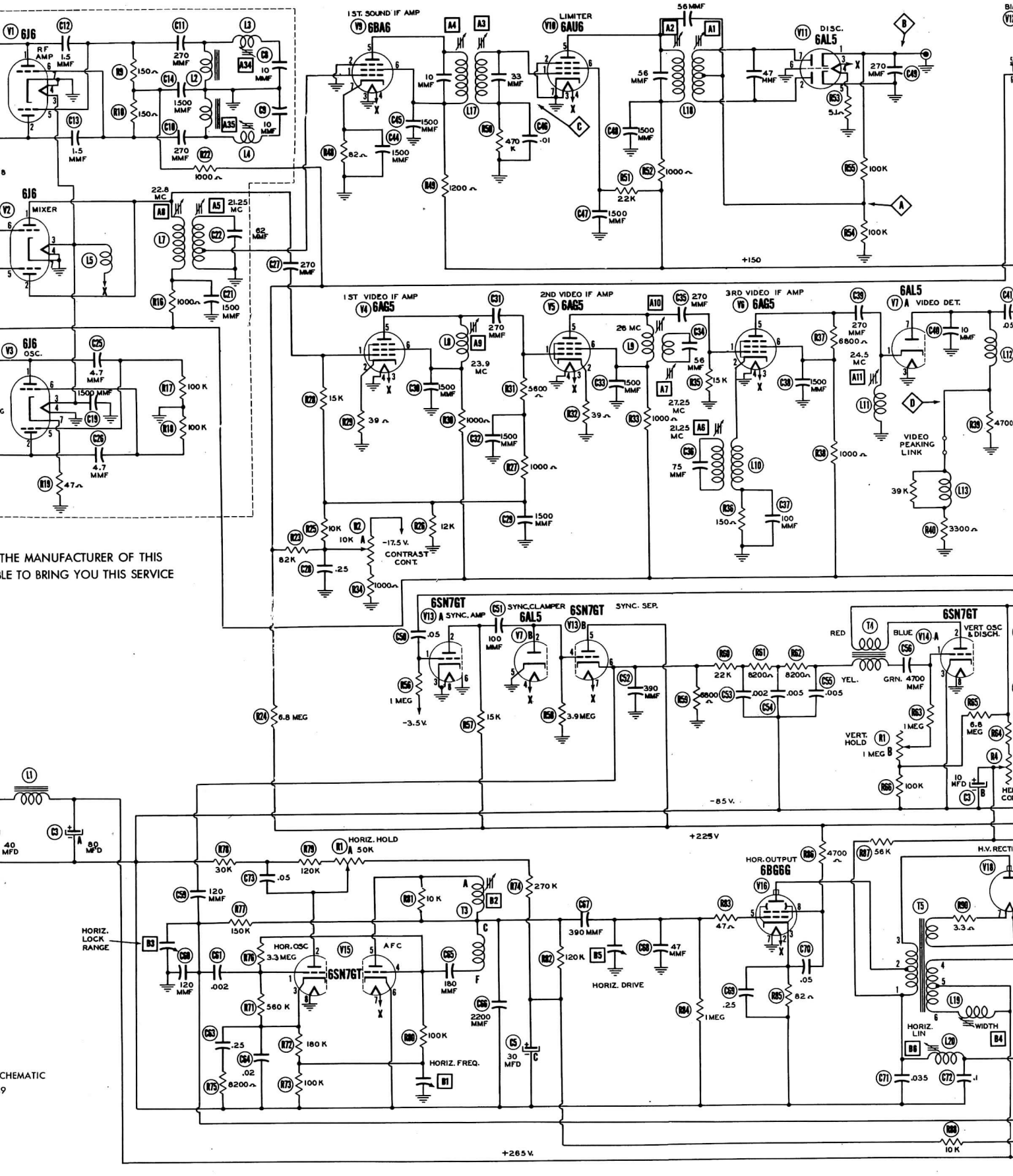
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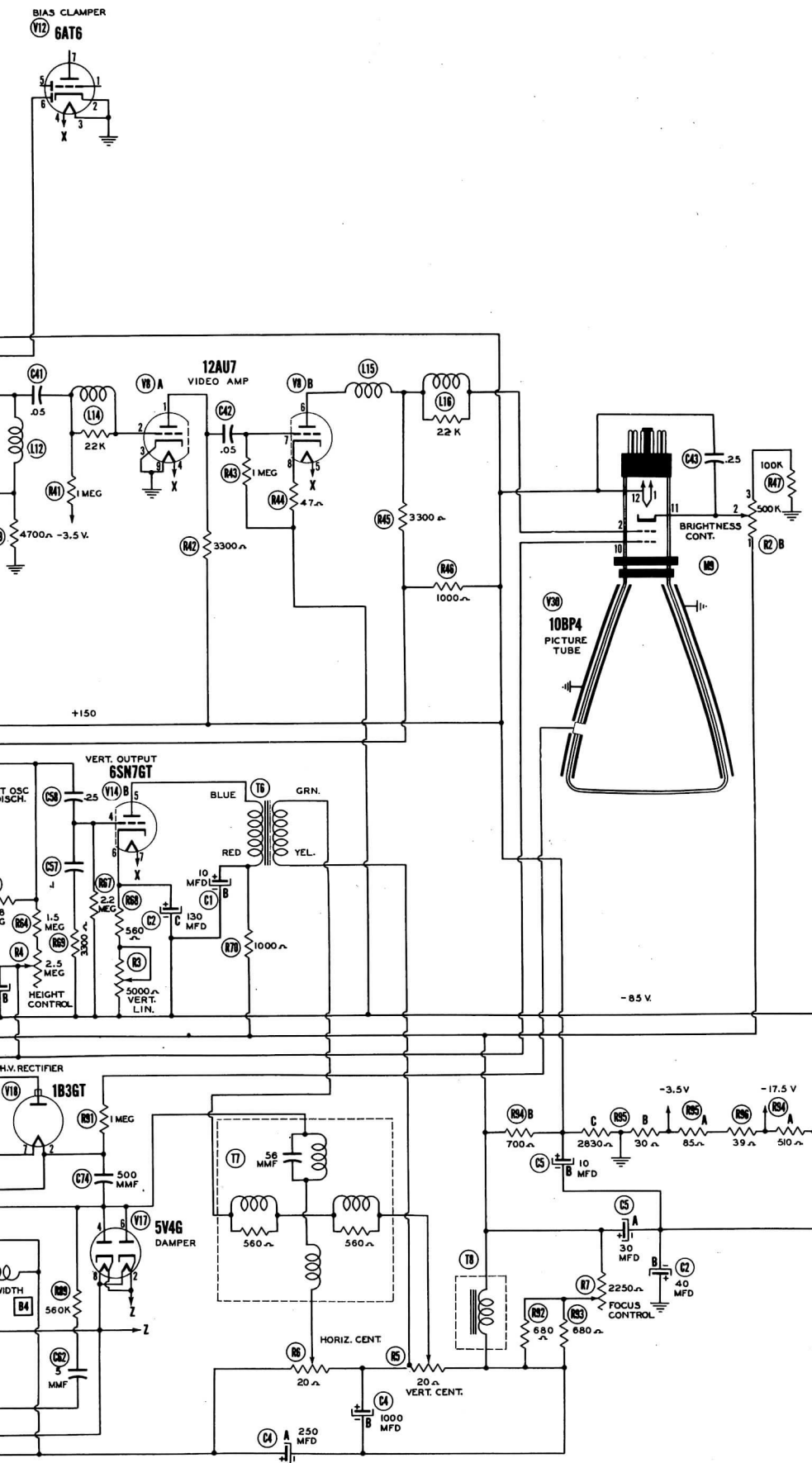
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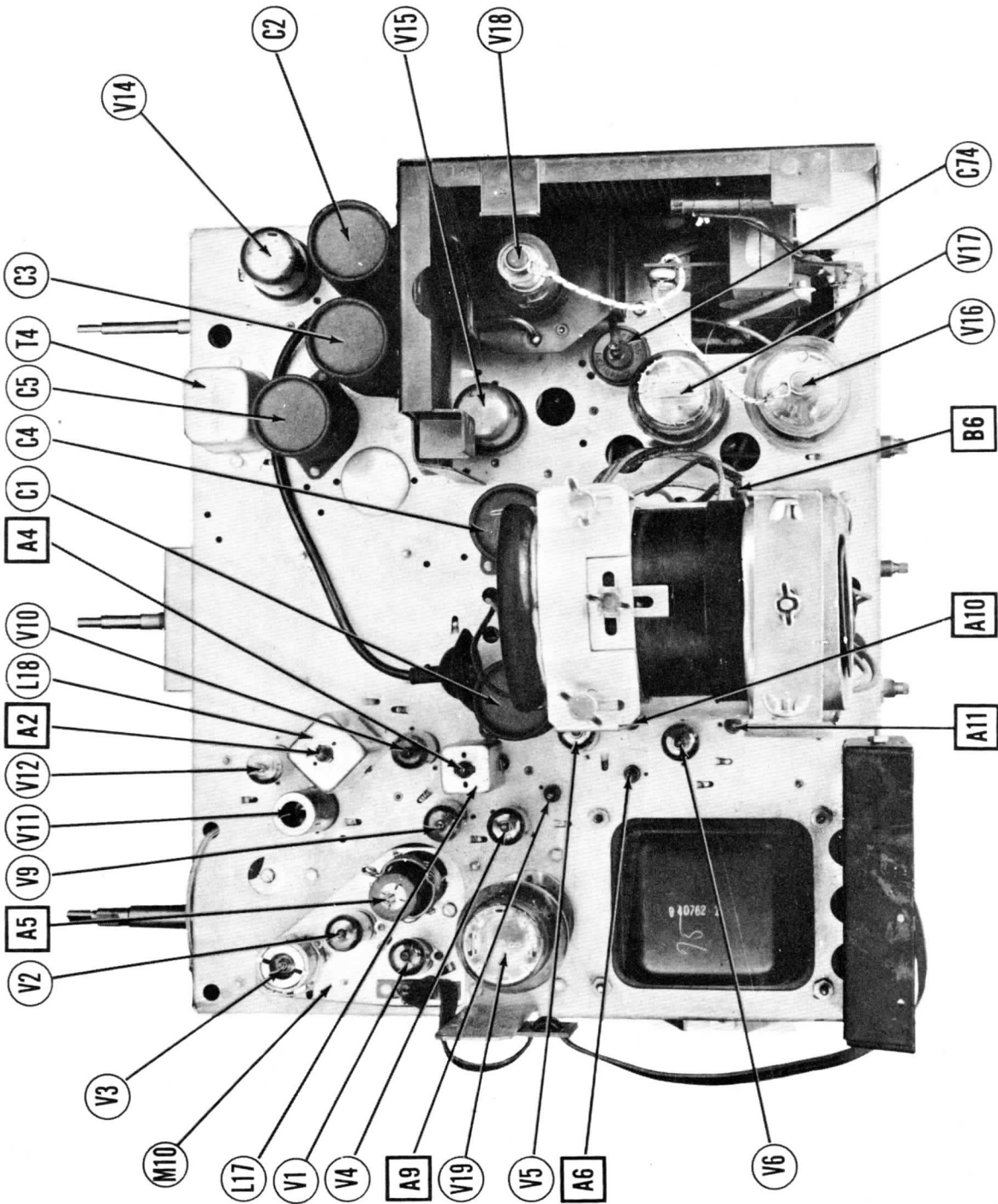
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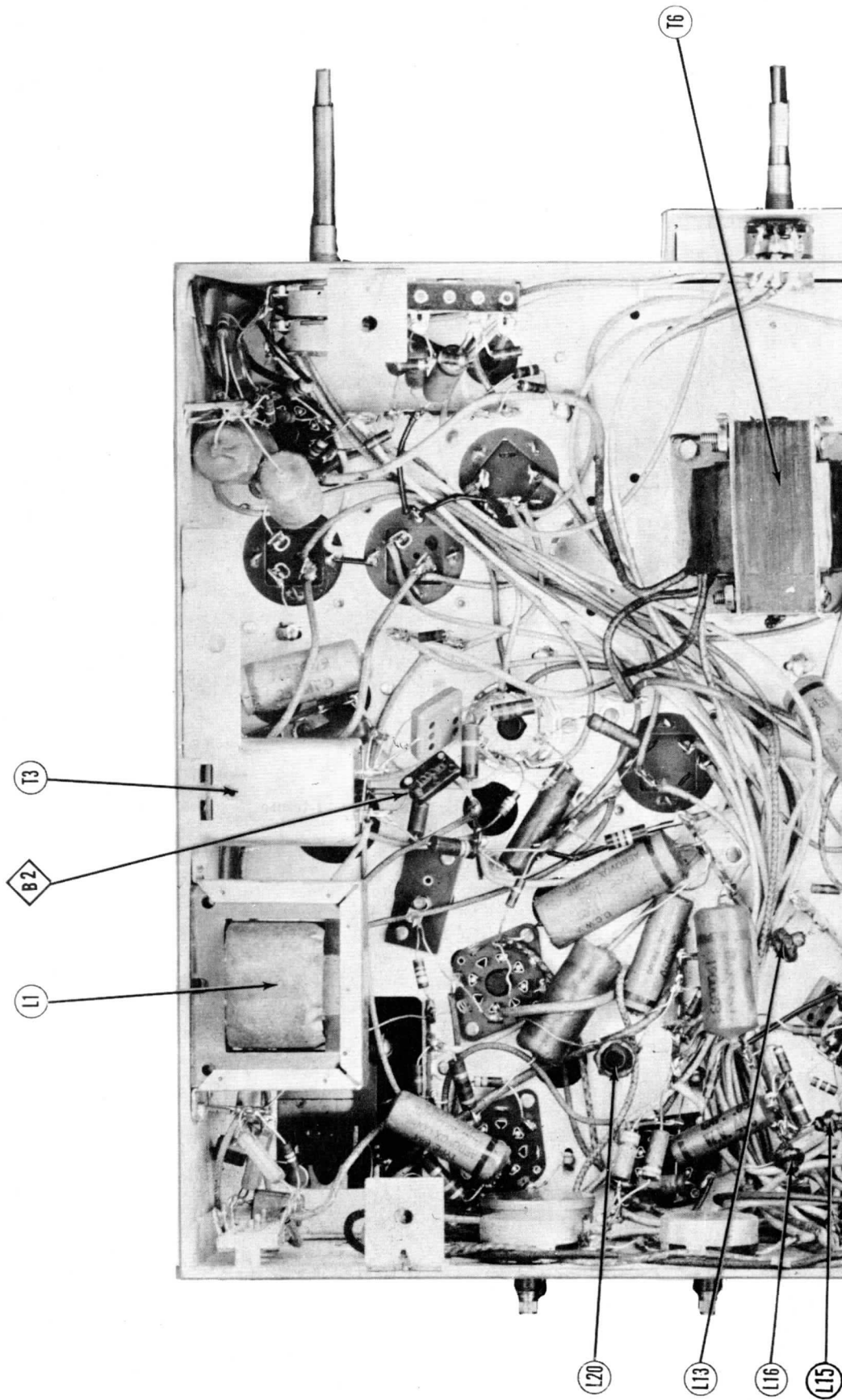
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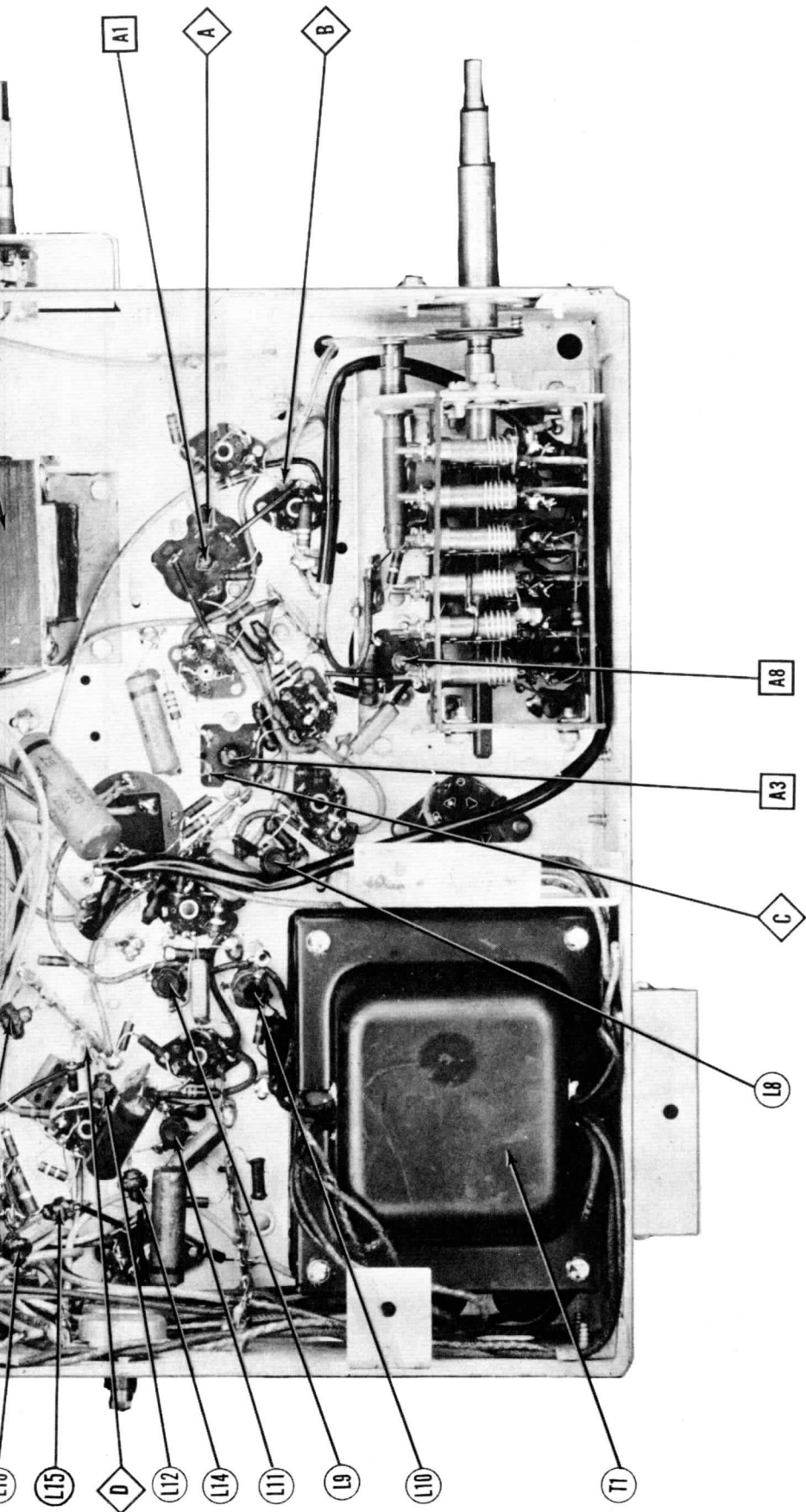
CHASSIS TOP VIEW





CHASSIS BOTTOM VIEW-TRANS., INDUCTO

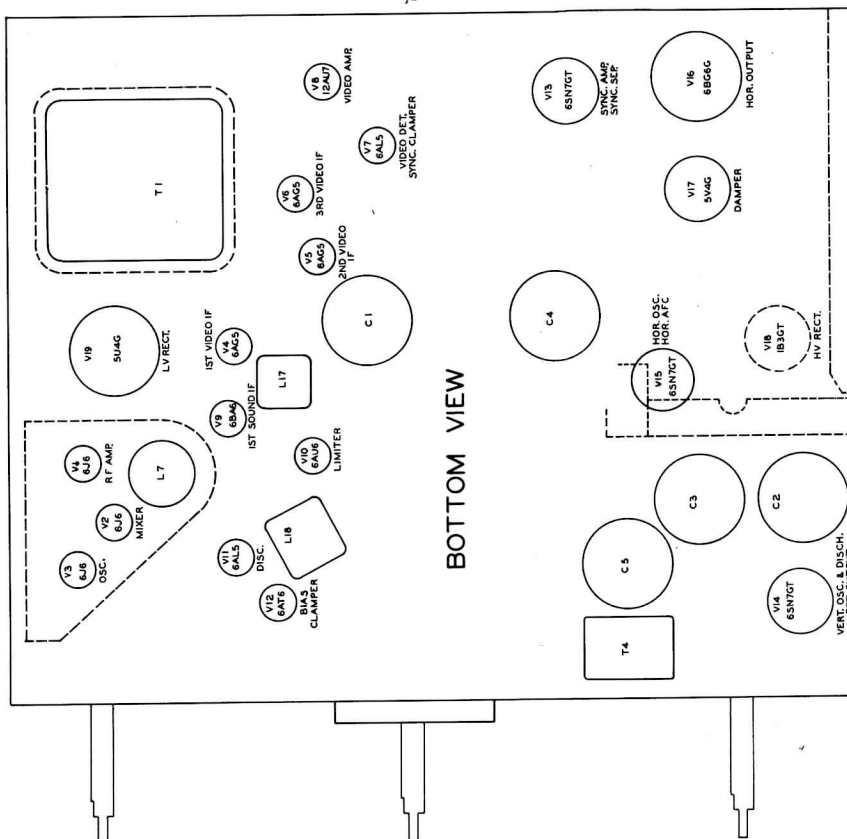
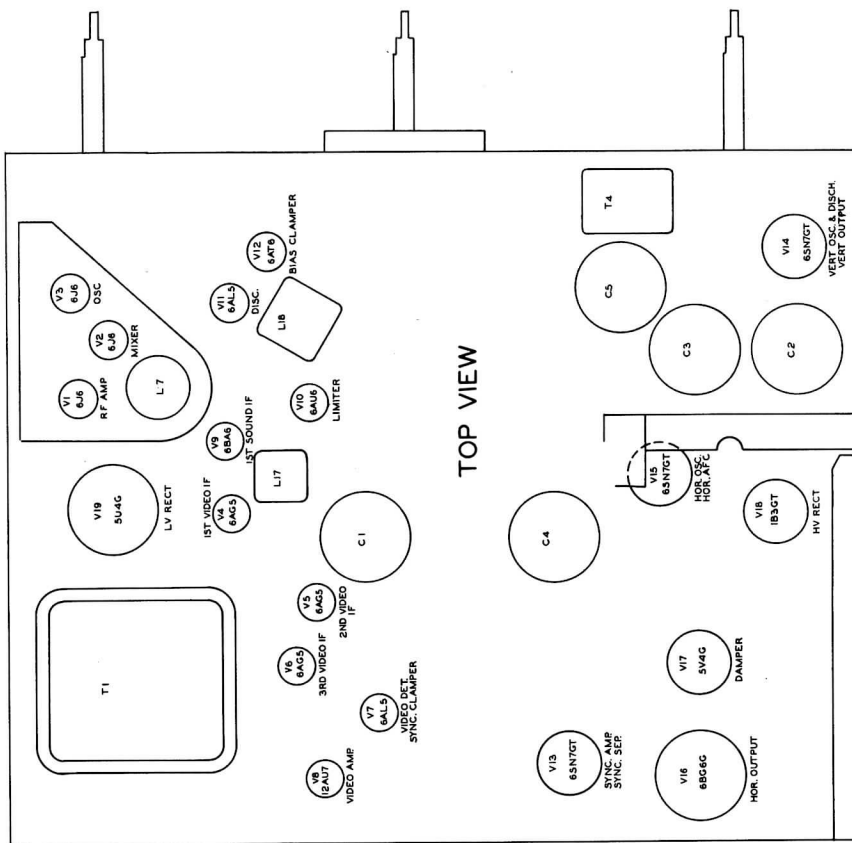
**RCA VICTOR
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CTOR AND ALIGNMENT IDENTIFICATION

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TUBE PLACEMENT CHART



TV ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

If receiver is to be aligned with picture tube removed, it is recommended to also remove the 6SN7GT (V15) horizontal oscillator tube to eliminate high voltage shock hazard.
When complete alignment is to be performed, it can most conveniently be done in the order outlined:

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
1.	.05MFD	High side to pin 1 (Grid) of 6AU6 (V10) Low side to chassis.	21.25MC (Unmod.)	13	DC Probe thru 1 Meg to Point $\text{\textcircled{A}}$ Common to chassis.	A1,A2	Detune A1. Adjust A2 for maximum deflection.
2.	.05MFD	"	"	"	DC Probe thru 1 Meg to Point $\text{\textcircled{B}}$ Common to chassis.	A1	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
3.	.05MFD	High side to pin 1 (Grid) of 6BA6 (V9). Low side to chassis.	"	"	DC Probe thru 1 Meg to Point $\text{\textcircled{C}}$ Common to chassis.	A3,A4	Adjust for maximum deflection.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS	
1.	.05MFD	High side to pin 1 (Grid) of 6BA6 (V9). Low side to chassis.	21.25MC (1MC Sweep)	21.25MC	13	Vert. Amp. to Point $\text{\textcircled{D}}$ Low side to chassis.	A3,A4	If 60% sweep rate is used shunt R50 with 5600 Ω . Adjust A3 and A4 for maximum amplitude and symmetry as per Fig 1.
2.	.05MFD	"	"	"	"	Vert. Amp. to Point $\text{\textcircled{E}}$ Low side to chassis.	A1,A2	Adjust A2 for maximum amplitude and straightness of diagonal line as per Fig 2. Adjust A1 so 21.25MC marker is at center of diagonal line. Continue with step 4.

VIDEO IF ALIGNMENT

Before starting video IF alignment connect VTVM between junction of R25 and R26 and chassis. Adjust contrast control to give VTVM reading of -3V. Leave contrast control at this setting for entire video IF alignment.
Remove 6J6 local oscillator tube V3 to prevent erroneous indications.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
4.		High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	21.25MC	13	DC Probe to Point $\text{\textcircled{F}}$ Common to Chassis.	A5,A6	Adjust for minimum deflection.
5.		"	27.25MC	"	"	A7	Adjust for minimum deflection. (Some models may not have this trap.)
6.		"	22.8MC	"	"	A8	Adjust for maximum deflection.
7.		"	23.9MC	"	"	A9	" " " "
8.		"	26.0MC	"	"	A10	" " " "
9.		"	24.5MC	"	"	A11	" " " "

OVERALL VIDEO IF RESPONSE CHECK

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
10.		High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	24MC (10MC Sweep)	21.25MC 23.0MC 25.0MC 25.75MC 27.25MC	13	Vert. Amp. to Point $\text{\textcircled{G}}$ Low side to chassis.	Check response curve obtained on scope. If necessary, slightly retouch A5 thru A11 for proper wave shape and placement of markers as per Fig 3.

RF AMP. & MIXER ALIGNMENT

Before starting RF alignment connect VTVM to junction of R25 and R26 and chassis and adjust contrast control to give VTVM reading of -1V. Leave contrast control at this setting for entire RF alignment.
Connect a 1000MFD capacitor from pin 1 of 6AG5 1st Video IF Amp (V4) to chassis.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS	
11.	Two 120 Ω carbon res.	Across antenna terminals with 120 Ω resistor in each generator lead.	177MC (10MC Sweep)	175.25MC 179.75MC	7	Vert. Amp. thru 10K Ω to Point $\text{\textcircled{H}}$ Low side to chassis.	A12,A13 A14,A15	Adjust for approximately flat topped response curve as per Fig 4. Markers must be above 70%. Keep slug pairs in same relative positions.
12.	"	"	183MC (10MC Sweep) 189MC (10MC Sweep) 195MC (10MC Sweep) 201MC (10MC Sweep) 207MC (10MC Sweep) 213MC (10MC Sweep)	181.25MC 185.75MC 187.25MC 191.75MC 193.25MC 197.75MC 199.25MC 203.75MC 205.25MC 209.75MC 211.25MC 215.75MC	8 9 10 11 12 13	"	Check to see that response is as above. Slight readjustment of A12, A13,A14,A15 may be necessary to obtain optimum response for all high band channels.	

TV ALIGNMENT INSTRUCTIONS (CONT.)

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS	
13.	"	"	85MC (10MC Sweep)	83.25MC 87.75MC	6	"	A16,A17 A18,A19	Adjust for approximately flat topped response curve as per Fig 4. Markers must be above 70%. Keep slug pairs in approximately same relative position.
14.	"	"	79MC (10MC Sweep) 69MC (10MC Sweep) 63MC (10MC Sweep) 57MC (10MC Sweep)	77.25MC 81.75MC 87.25MC 71.75MC 81.25MC 65.75MC 55.25MC 59.75MC	5 4 3 2	"		Check to see that response is as above. Slight readjustment of A16, A17,A18,A19 may be necessary to obtain optimum performance on all low band channels.

OSCILLATOR ALIGNMENT

Replace oscillator tube (V3).
Set fine tuning control to the mid-point of its tuning range.
The sound IF system must be accurately aligned before starting the oscillator alignment.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
15.	Two 120Ω carbon res. across antenna terminals with 120Ω resistor in each lead.	215.75MC	13	DC Probe thru 1 Meg to Point ⓧ Common to chassis.	A20,A21	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Keep slug pairs in same relative position.
16.	"	209.75MC 203.75MC 197.75MC 191.75MC 185.75MC 179.75MC	12 11 10 9 8 7	"	A22 A23 A24 A25 A26 A27	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
17.	"	87.75MC	6	"	A28 A29	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Keep slug pairs in same relative position.
18.	"	81.75MC 71.75MC 65.75MC 59.75MC	5 4 3 2	"	A30 A31 A32 A33	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

WAVE TRAP ADJUSTMENT

Wave traps A34 and A35 are used for specific types of interference and their alignment will depend upon the type encountered. With the receiver tuned to the channel having the interference set fine tuning control until interference is at maximum. Adjust A34 and A35 for minimum interference in the picture and sound. Keeping the cores at approximately the same relative position. Turn one core 1/2 turn, adjust the other for minimum interference.

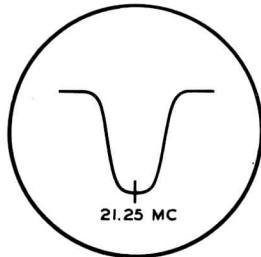


FIG. 1

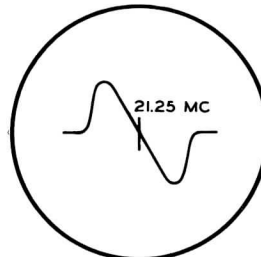


FIG. 2

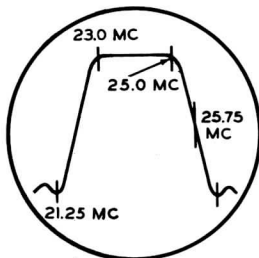


FIG. 3

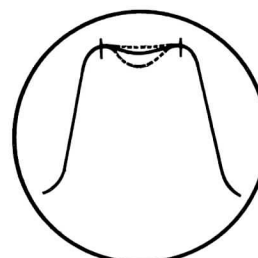


FIG. 4

RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)

RADIO ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
When complete receiver alignment is to be performed align the FM IF Amp. before aligning AM IF Amps. To set pointer turn tuning cap fully closed and set pointer to last reference mark at low frequency end of dial. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.							
FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM							
Connect two matched 100KΩ ($\pm 1\%$) resistors in series from Point \diamond to chassis. The junction of these two resistors is alignment Point \diamond as shown on the schematic.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
19 .01MFD	High side to pin 1 (Grid) of 6AU6 (V23). Low side to chassis.	10.7MC (Unmod.)	FM (Ext. clock-wise.)	Tuning gang fully closed	DC Probe to Point \diamond Common to chassis.	A36	Adjust for maximum deflection.
20 .01MFD	"	"	"	"	DC Probe to Point \diamond Common to Point \diamond	A37	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Repeat steps 19 and 20 if A37 required much adjustment.
21 .01MFD	Across antenna terminals.	10.7MC	"	"	DC Probe to Point \diamond Common to chassis.	A38, A39, A40, A41	Adjust for maximum deflection. Alternately load the primary and secondary windings of the IF transformers with 680Ω while the opposite side of the same transformer is being adjusted.
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE							
Use frequency modulated signal with 60V modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
19 .01MFD	Across antenna terminals.	10.7MC (450KC Sweep)	FM	Tuning gang fully closed	Vert. Amp. to Point \diamond Low side to chassis.	A36, A38, A39, A40, A41	Disconnect stabilizer C7. Adjust for maximum amplitude and symmetry as per Fig 5.
20 .01MFD	"	"	"	"	Vert. Amp. to Point \diamond Low side to chassis.	A37	Reconnect stabilizer cap C7. Adjust A37 so crossover point occurs at center of pattern as per Fig 6. Slightly retouch A36 for maximum amplitude and straightness of crossover lines. Continue with step 22.
FM RF ALIGNMENT							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
22 Two 120Ω carbon res.	Across antenna terminals with 120Ω resistor in each lead.	106MC	FM	106MC (5 3/4" to right of left hand calibration mark at low freq. end of dial back plate).	DC Probe to Point \diamond Common to chassis.	A42, A43	Adjust for maximum deflection.
23 "	"	90MC	"	90MC (1 1/8" to right of the reference point listed above).	"	A44, A45	"
AM ALIGNMENT							
FM IF alignment must be complete before starting AM alignment. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
24 .01MFD	High side to pin 7 (Grid) of 6BE6 (V21). Low side to chassis.	455KC (400V Mod.)	AM (3 positions clock-wise)	Tuning gang fully closed	Across voice coil	A46, A47, A48, A49	Adjust for maximum output. Alternately load the primary and secondary windings of the AM IF transformers with 47KΩ while the opposite side of the same transformer is being aligned.
25 200MMFD	High side to terminal 2 of antenna terminal strip. Low side to chassis.	1400KC	"	1400KC (5 15/16" to the right of left hand calibration mark at low freq. end of dial back plate).	"	A50, A51	Adjust for maximum output.
26 200MMFD	"	600KC	"	600KC (1 1/4" to the right of the reference point listed above).	"	A52, A53	Adjust for maximum output. Repeat steps 24 and 25.

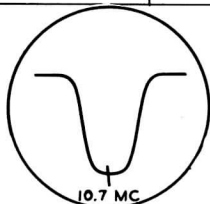


FIG. 5

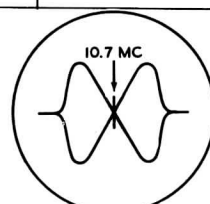
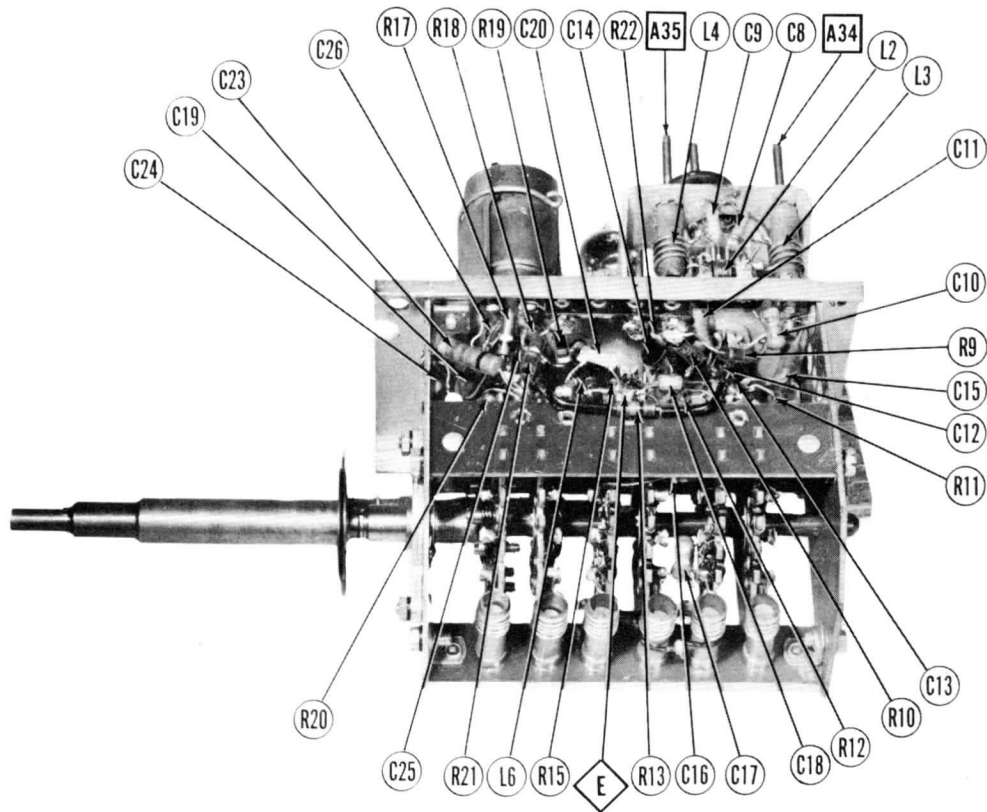
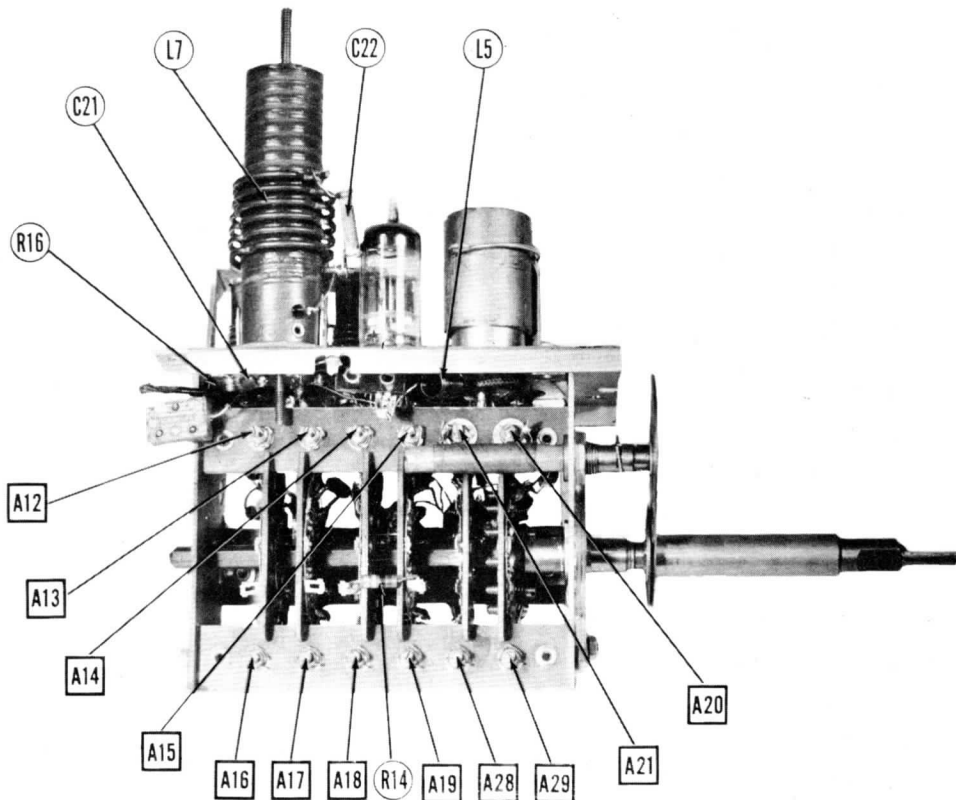


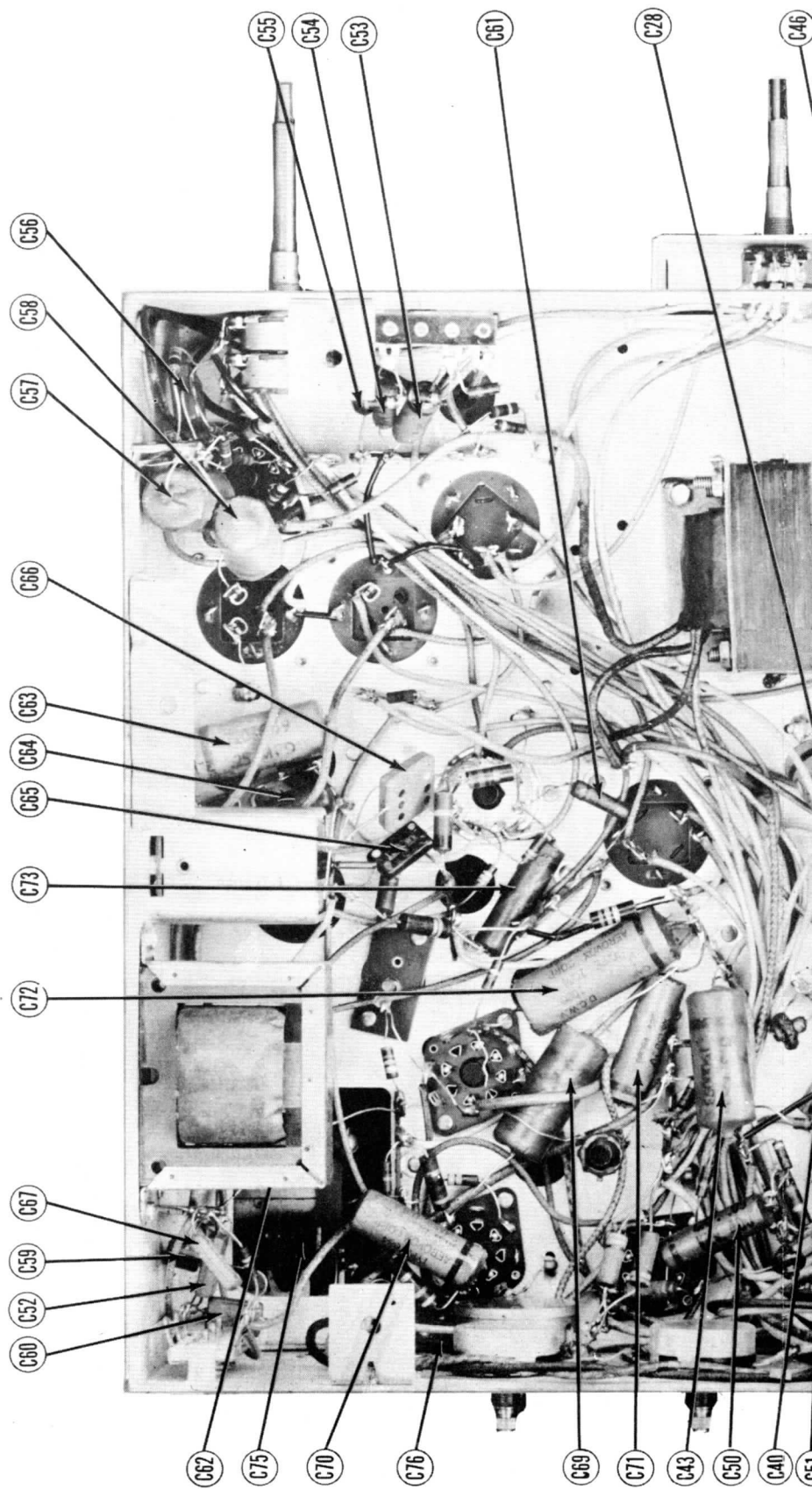
FIG. 6



RF TUNER-RIGHT SIDE

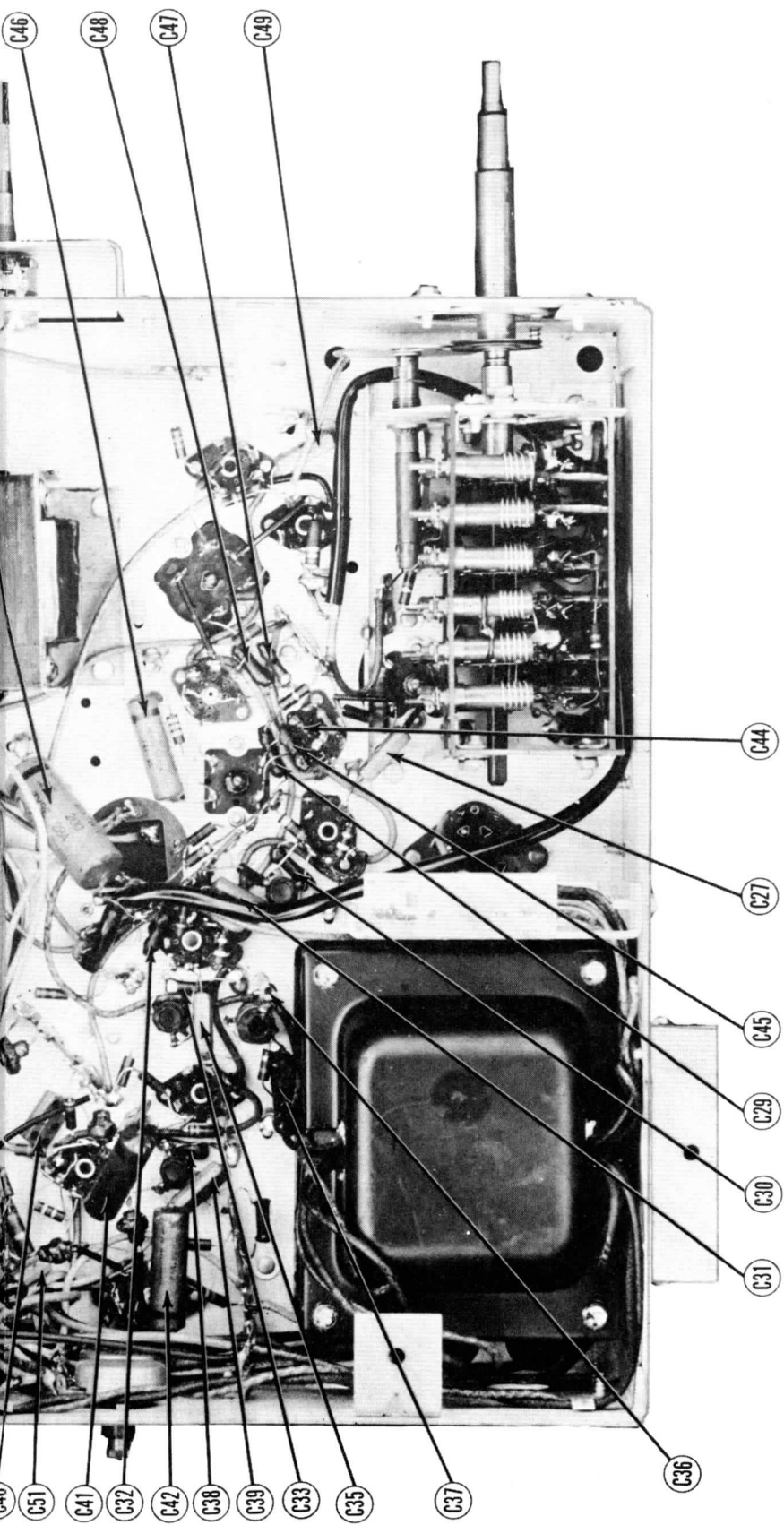


RF TUNER-LEFT SIDE

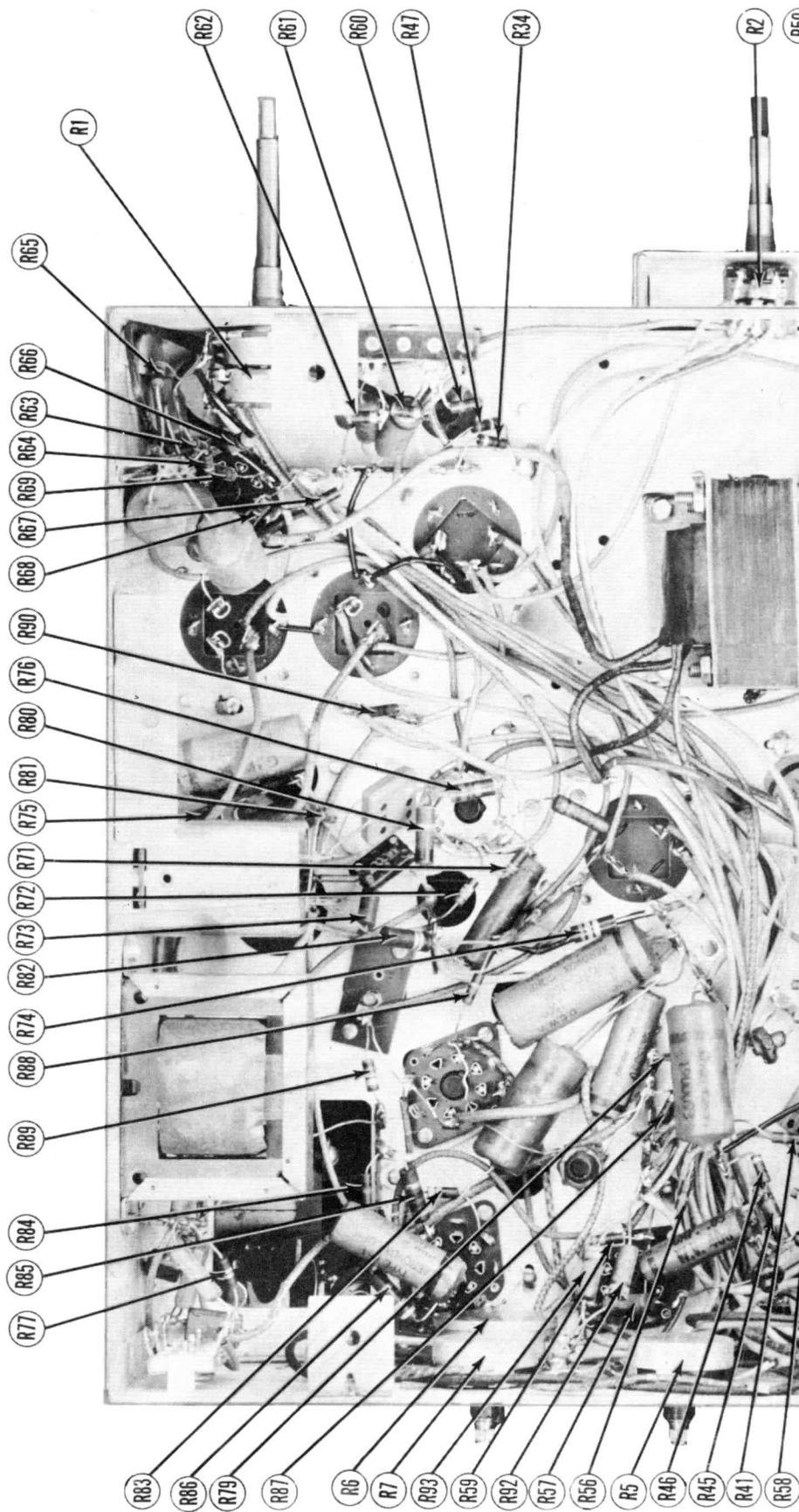


CHASSIS BOTTOM VIEW-CAM

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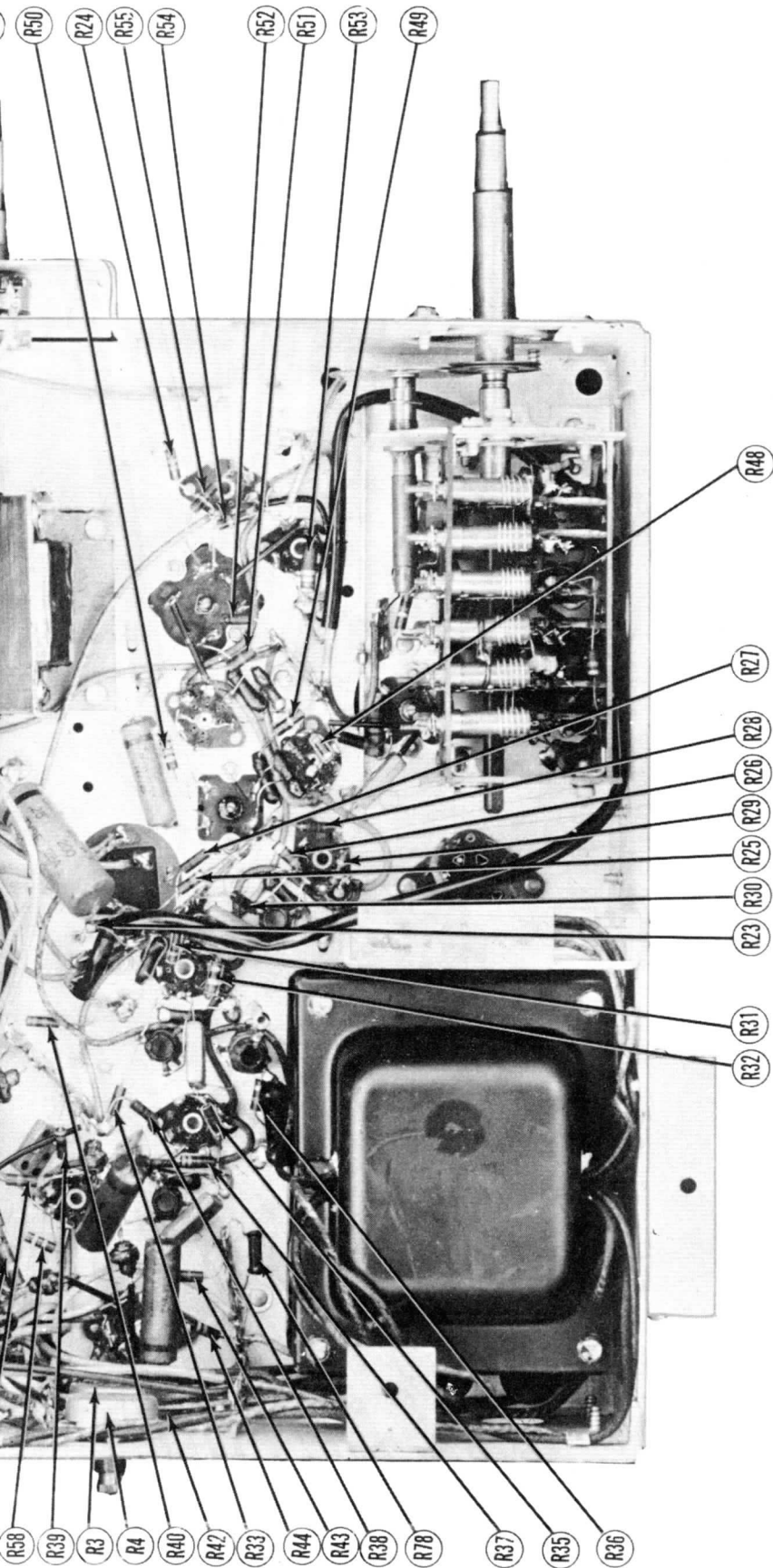


CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-R

**RCA VICTOR
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RESISTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		RCA PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6J6	6J6	7BF	
V2	Mixer	6J6	6J6	7BF	
V3	Oscillator	6J6	6J6	7BF	
V4	1st Video IF Amp	6AG5	6AG5	7BD	
V5	2nd Video IF Amp	6AG5	6AG5	7BD	
V6	3rd Video IF Amp	6AG5	6AG5	7BD	
V7	Video Det.-Clamper	6AL5	6AL5	6BT	
V8	Video Amp.	12AU7	12AU7	9A	
V9	1st Sound IF Amp.	6BA6	6BA6	7BK	
V10	Limitter	6AU6	6AU6	7BK	
V11	Discriminator	6AL5	6AL5	6BT	
V12	Bias Clamper	6AT6	6AT6	7BT	
V13	Sync. Amp.-Sync. Sep.	6SN7GT	6SN7GT	8BD	
V14	Vert. Osc. and Disch.-Vert. Output	6SN7GT	6SN7GT	8BD	
V15	Hor. Osc.-AFC	6SN7GT	6SN7GT	8BD	
V16	Hor. Output	6BG6G	6BG6G	5BT	
V17	Damper	5V4G	5V4G	5L	
V18	HV Rectifier	1B3GT	1B3GT	3C	
V19	LW Rectifier	5U4G	5U4G	5T	
V20	FM Conv.	6BE6	6BE6	7CH	
V21	AM Conv.	6BE6	6BE6	7CH	
V22	1st IF Amp.	6BA6	6BA6	7BK	
V23	2nd IF Amp.	6AU6	6AU6	7BK	
V24	Ratio Det.	6AL5	6AL5	6BT	
V25	Det.-AVC-Phase Inv.	6SQ7	6SQ7	8Q	
V26	AF Amp.	6SQ7	6SQ7	8Q	
V27	Power Output	6K6GT	6K6GT	7S	
V28	Power Output	6K6GT	6K6GT	7S	
V29	Rectifier	5Y3GT	5Y3GT	5T	
V30	Picture Tube	10BP4	10BP4		

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 AND INSTALLATION NOTES
	CAP.	VOLT	RCA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	40	450	71782	AF82J2H#	UP7BJ		TVL-69	▲ Filter
B	10	350			920			▲ Vert. Output Dec.
C2A	40	450	71781	AF88J26B	UP9CJ		D-12647	▲ Filter
B	40	150			887			■ Filter
C	130	50						▲ Vert. Output Cath. Byp.
C3A	80	450	71780	AF164J	UP9BJ		TVL-47	▲ Filter
B	10	450			857			▲ Vert. Osc. Decoupling
C4A	250	10	71436	AF50R200S	UP7BJ		TVL-66	▲ Hor. Cent. Cont. Byp.
B	1000	6			808			▲ Vert. Cent. Cont. Byp.
C5A	30	350	72736	AF862J4A+	UP8CJ		TVL-56	■ Filter
B	10	400			898			▲ Filter
C	30	250						▲ Decoupling
C6A	30	450	72052	AF66J4A	UP2245		EL330	▲ Filter
B	30	350			CC		TVA-6	■ Filter
C	40	25						▲ Output Cath. Bypass
C7	5	50	72121	PRS150/4	BBR5-50T		TVA-13	Stabilizing Cap.
C8	10					NPOK-10		Fixed Trimmer *
C9	10					NPOK-10		Fixed Trimmer *
C10	270		71540			GP2K-250		RF Coupling
C11	270		71540			GP2K-250		"
C12	1.5		71500			NPOK-1.5		Neutralizing
C13	1.5		71500			NPOK-1.5		"
C14	1500		71501			GP2L-0015		Bias Filter
C15	1500		71501			GP2L-0015		RF Plate Decoupling
C16	2.2		71502					RF Coupling
C17	4.7		71520					"
C18	.68		71504					"
C19	1500		71501			GP2L-0015		Filament Bypass
C20	22		33101					Fixed Trimmer
C21	1500		71501			GP2L-0015		Conv. Plate Dec.
C22	62							Fixed Trimmer
C23	1500		71501			GP2L-0015		Osc. Plate Decoupling
C24	10		45466			GP1K-10		"
C25	4.7		71520					Osc. Feedback
C26	4.7		71520					"
C27	270	500	65401	1468-00025	5W5T25	GP2K-250	1FM-325	IF Coupling
C28	.25	200	70618	P488-25	GT2P25		TC-2	Bias Filter
C29	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	Bias Filter
C30	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	1st V. IF Decoupling
C31	270	1000	73091	1468-00025	5W5T25	GP2K-250	1FM-325	IF Coupling
C32	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	Bias Filter
C33	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	2nd V. IF Decoupling
C34	56							Fixed Trimmer *
C35	270	1000	73091	1468-00025	5W5T25	GP2K-250	1FM-325	IF Coupling
C36	75			1469-00075		NPOM-75		Fixed Trimmer
C37	100		45469	1468-0001	5W5T1	GP1K-100	1FM-31	3rd V. IF Cath. Bypass
C38	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	3rd V. IF Decoupling
C39	270	1000	73091	1468-00025	5W5T25	GP2K-250	1FM-325	IF Coupling
C40	10	500	72615	1468-00001	5W5Q1	GP1K-10	MS-41	V. Diode Filter
C41	.05	400	70615	P488-05	GT4S5		TM-15	Video Coupling
C42	.05	400	70615	P488-05	GT4S5		TM-15	Video Coupling
C43	.25	200	70618	P488-25	GT2P25		TC-2	Pic. Tube Cath. Dec.
C44	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	1st S. IF Cath. Bypass
C45	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	1st S. IF Decoupling
C46	.01	400	70610	P488-01	GT4S1	GP2-335-01	TM-11	Limitter Grid Filter
C47	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	Limitter Screen Bypass
C48	1500		71501	1467-0015	1W5D15	GP2L-0015	1FM-215	Limitter Plate Dec.
C49	270	1000	73091	1468-00025	5W5T25	GP2K-250	1FM-325	RF Bypass
C50	.05	400	70615	P488-05	GT4S5		TM-15	Video Coupling
C51	100	500	39628	1468-0001	5W5T1	GP1K-100	1FM-31	Sync. Coupling
C52	390	1000	73094	1468-0004	5W5T4		1FM-34	Sync. Amp. Cath. Bypass

RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)

CAPACITORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	RCA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C53	.002	600	70601	P688-002	GT6D2	GP2M-002	TM-22	Integrator Net.
C54	.005	400	70606	P688-005	GT6D5	GP2M-005	TM-25	" "
C55	.005	400	70606	P688-005	GT6D5	GP2M-005	TM-25	" "
C56	4700	500	72524					" "
C57	.1	1000	73101	1084-1				Vert. Osc. Grid Cap.
C58	.25	200	70618	P488-25	GT2P25		TC-2	Vert. Discharge
C59	120	500	38630					Vert. Sweep Coupling
C60	120	500	38630					Hor. Sync. Coupling
C61	.002	400	70622	P688-002	GT6D2	GP2M-002	TM-22	Voltage Divider
C62	5	1500	72809					Hor. Sync. Coupling
C63	.25	200	70618	P488-25	GT2P25		TC-2	AFC Feedback
C64	.02	400	70611	P488-02	GT4S2		TM-12	AFC Filter
C65	180	1000	73102					" "
C66	2200	500	38660					Hor. Osc. Grid Cap.
C67	390	1000	73094	1469-0004	5R5T4		MS-34	Hor. Discharge
C68	47	500	38620	1469-00005	5W5Q5	GP1K-50	1FM-45	Hor. Sweep Coupling
C69	.25	200	70618	P488-25	GT2P25		TC-2	Voltage Divider *
C70	.05	600	70636	P688-05	GT6S5		TM-15	Hor. Output Cath. Byp.
C71	.035	600	73100					Hor. Output Screen Byp.
C72	.1	1000	73101	1084-1				Damper Filter
C73	.05	400	70615	P488-05	GT4S5		TM-15	" "
C74	500	10000	71450			410-500		AFC Plate Bypass
C75	.01	400	71770	P488-01	GT4S1		TM-11	HV Filter
C76	.01	400	71770	P488-01	GT4S1		TM-11	Line Filter
C77	27		72570	1469-000025	5W5Q25	GP1K-25	MS-425	" "
C78	330	500	72793	1469-000035	5W5T4	GP2K-300	1FM-335	Osc. Grid Cap.
C79	.01	400	71925	P488-01	GT4S1	GP2-335-01	TM-11	FM Osc. Anode Bypass
C80	1000			1468-001	1W5D1	GP2L-005	TM-11	FM Osc. Plate Dec.
C81	56		71924	1468-00005	5W5Q5	GP1K-50	1FM-45	Voltage Divider *
C82	120		71614	1468-00015	5W5T15	GP2K-150	1FM-315	Ant. Coupling
C83	120		71614	1468-00005	5W5Q5	GP1K-50	1FM-45	Fixed Trimmer
C84	56		71924	1469-0004	5R5T4		MS-34	RF Coupling
C85	390	500	72875	P488-01	GT4S1	GP2-335-01	TM-11	Osc. Grid Cap.
C86	.01	400	71925	P288-05	GT2S5			Fixed Padder
C87	.05	200	71551	1469-00005	5W5Q5	GP1K-50	1FM-45	AM Osc. Anode Bypass
C88	47		38942	P688-005	GT6D5	GP2M-005	TM-25	AVC Filter
C89	.005	400	71553	P688-005	GT6D5	GP2M-005	TM-25	AM Conv. Fil. Bypass
C90	.005	400	71553	P688-005	GT6D5	GP2M-005	TM-25	1st IF Screen Bypass
C91	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	1st IF Decoupling
C92	.005	400	71553	P688-005	GT6D5	GP2M-005	TM-25	2nd IF Cath. Bypass
C93	.005	400	71553	P688-005	GT6D5	GP2M-005	TM-25	2nd IF Screen Bypass
C94	.01	400	71925	P488-01	GT4S1	GP2-335-01	TM-11	2nd IF Plate Dec.
C95	330	500	72793	1469-00003	5W5T3	GP2K-300	1FM-325	RF Bypass
C96	330	500	72793	1469-00003	5W5T3	GP2K-300	1FM-325	Diode Load Cap. †
C97	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	" " †
C98	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	RF Bypass
C99	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	" "
C100	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	De-emphasis
C101	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	AVC Filter
C102	.015	200	72120	P288-015	GT6S15	GP2M-005	TM-25	Audio Coupling
C103	.015	200	72120	P288-015	GT6S15	GP2M-005	TM-25	Tone Compensation
C104	.003	400	72573	P688-003	GT6D3	GP2M-003	TM-23	" "
C105	.003	400	72573	P688-003	GT6D3	GP2M-003	TM-23	" "
C106	.01	400	71925	P488-01	GT4S1	GP2-335-01	TM-11	Audio Coupling
C107	120		71614	1469-00015	5W5T15	GP2K-150	1FM-315	AF Plate Bypass
C108	.01	400	71925	P488-01	GT4S1	GP2-335-01	TM-11	Audio Coupling
C109	.005	200	72490	P688-005	GT6D5	GP2M-005	TM-25	" "
C110	.02	400	70611	P488-02	GT4S2		TM-12	" "
C111	.0035	1000	70646	P1088-0033	GT16D3		MB-23	Output Plate Bypass
C112	.0035	1000	70646	P1088-0033	GT16D3		MB-23	" "
C113	.003	600	72874	P688-003	GT6D3		TM-23	Line Filter

* Not used in all models.

† When either item C95 or C96 are replaced, replace both with capacitors of equal value.

‡ Omit bypass section.

§ Omit one 10MFD section.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	CLAROSTAT PART No.	
R1A	50K Ω	1/4	72734		970111-24	Horiz. Hold Control (Dual Concentric)
R1B	1 Meg.	1/4				Vert. Hold Control
R2A	10K Ω	1/4	71784 *		970111-18	Contrast Control (Dual Concentric)
R2B	500K Ω	1/4				Brightness Control
R2C	10K Ω	1/4	73193 §		970111-18	Contrast Control (Dual Concentric)
R2D	500K Ω	1/4				Brightness Control
R3A	5000 Ω	1/4	71441	Q11-114	M-19-S	Vert. Linearity Control
R3B	Shaft		Not Req.			Attach to R3A Per Instructions (Dual Concentric)
R4	2.5 Meg	1/4	71440	Q11-237		Height Control
R5	20 Ω	2	71443	W-20x10	43-20CT	Vert. Centering Control, Tapped @ 10 Ω Wire Wound
R6	20 Ω	2	71443	W-20x10	43-20	Horiz. Centering Control, Wire Wound
R7	2250 Ω	4	72735		P-10-2500	Focus Control, Wire Wound
R8A	1.5 Meg	1/4	72851	Q18-139XX	T-95	Volume Control
R8B	Switch		Not Req.	76-1	SW-A	Attach to R8A Per Instructions

§ Used only when Decal. Part #73196 or 73197 is used.

* Used only when Decal. Part #73028 or 73045 is used.

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R9	150 Ω	1/4			RF Grid
R10	150 Ω	1/4			" "
R11	4700 Ω	1/4			RF Plate
R12	4700 Ω	1/4			" "
R13	1000 Ω	1/4			RF Plate Decoupling
R14	10K Ω	1/4			Mixer Grid Shunt
R15	1 Meg.	1/4			Mixer Grid
R16	1000 Ω	1/4			Mixer Plate Decoupling
R17	100K Ω	1/4			Osc. Grid
R18	100K Ω	1/4			" "
R19	47 Ω	1/4			Osc. Cathode
R20	4700 Ω	1/4			Osc. Plate
R21	150 Ω	1/4			Decoupling Network

ALL RESISTORS ARE \pm 10% UNLESS OTHERWISE STATED.

ITEM No.	RATING		REPLACEMENT DATA	
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.
R22	1000 Ω	1/4		BTS-1000
R23	82K Ω	1/4		BTS-82K
R24	6.8 Meg.	1/4		BTS-6.8 Meg
R25	10K Ω	1/4		BTS-10K
R26	12K Ω	1/4		BTS-12K
R27	1000 Ω	1/4		BTS-1000
R28	15K Ω	1/4		
R29	39 Ω	1/4		
R30	1000 Ω	1/4		
R31	5600 Ω	1/4		
R32	39 Ω	1/4		
R33	1000 Ω	1/4		
R34	1000 Ω	1/4		BTS-1000
R35	15K Ω	1/4		
R36	150 Ω	1/4		
R37	6800 Ω	1/4		
R38	1000 Ω	1/4		
R39	4700 Ω	1/4		BTS-4700-5
R40	3300 Ω	1/4		BTS-3300-5
R41	1 Meg.	1/4		BTS-1 Meg.
R42	3300 Ω	1/4		BTS-3300
R43	1 Meg.	1/4		BTS-1 Meg.
R44	47 Ω	1/4		BW-47
R45	3300 Ω	1/4		BTA-3300
R46	1000 Ω	1/4		BTS-1000
R47	100K Ω	1/4		BTS-100K
R48	82 Ω	1/4		
R49	1200 Ω	1/4		
R50	470K Ω	1/4		
R51	22K Ω	1/4		
R52	1000 Ω	1/4		
R53	5.1 Ω	1/4	72067	BW-4.7
R54	100K Ω	1/4		BTS-100K-5
R55	100K Ω	1/4		BTS-100K-5
R56	1 Meg.	1/4		BTS-1 Meg.
R57	15K Ω	1/4		BTA-15K
R58	3.9 Meg.	1/4		BTS-3.9 Meg
R59	6800 Ω	1/4		BTS-6800
R60	22K Ω	1/4		BTS-22K
R61	8200 Ω	1/4		BTS-8200
R62	8200 Ω	1/4		BTS-8200
R63	1 Meg.	1/4		BTS-1 Meg-5
R64	1.5 Meg.	1/4		BTS-1.5 Meg
R65	6.8 Meg.	1/4		BTS-6.8 Meg
R66	100K Ω	1/4		BTA-100K
R67	2.2 Meg.	1/4		BTS-2.2 Meg
R68	560 Ω	1/4		BTS-560
R69	3300 Ω	1/4		BTS-3300
R70	1000 Ω	1/4		BTS-1000
R71	560K Ω	1/4		BTS-560K-5
R72	180K Ω	1/4		BTS-180K
R73	100K Ω	1/4		
R74	270K Ω	1/4		BTA-270K
R75	8200 Ω	1/4		BTS-8200
R76	3.3 Meg.	1/4		BTA-3.3Meg-5%
R77	150K Ω	1/4		BTS-150K
R78	30K Ω	1/4		
R79	120K Ω	1/4	72928	BTS-120K
R80	100K Ω	1/4		
R81	10K Ω	1/4	72893	BTS-10K
R82	120K Ω	1/4		BTA-120K
R83	47 Ω	1/4		
R84	1 Meg.	1/4		BTS-1 Meg.
R85	82 Ω	1/4		BW-1-82
R86	4700 Ω	1/4		BTA-4700
R87	56K Ω	1/4		BTS-56K
R88	10K Ω	1/4		BTS-10K
R89	560K Ω	1/4		BTS-560K
R90	3.9 Ω	1/4		
R91	1 Meg.	1/4	71513	
R92	680 Ω	1/4		BTA-680
R93	680 Ω	1/4		BTA-680
R94A	510 Ω	1/10	72848	AB-500
R94B	70 Ω	1/12		DG-700
R95A	85 Ω	2	72849	BW-2-82
R95B	30 Ω	1		BW-1-30
R96	2350 Ω	1/7		AB-3000
R97	39 Ω	1/4		BW-1-39
R98	1 Meg.	1/4		BTS-1 Meg.
R99	1000 Ω	1/4		BTS-1000
R100	22K Ω	1/4		BTS-22K
R101	6800 Ω	1/4		BTA-6800
R102	2.2 Meg.	1/4		BTS-2.2 Meg
R103	22K Ω	1/4		BTS-22K
R104	18K Ω	1/4		BTS-18K
R105	47 Ω	1/4		BW-47
R106	22K Ω	1/4		BTA-22K
R107	2200 Ω	1/4		BTA-2200
R108	2.2 Meg.	1/4		BTS-2.2 Meg
R109	270K Ω	1/4		BTS-270K
R110	270K Ω	1/4		BTS-270K
R111	68 Ω	1/4		BW-4-68
R112	33K Ω	1/4		BTS-33K
R113	1000 Ω	1/4		BTS-1000
R114	100 Ω	1/4		BW-4-100
R115	15K Ω	1/4		BTS-15K
R116				

CTIONS (Continued)

(NT.)

RESISTORS (CONT.)

IDENTIFICATION CODES	
Network	20%
"	"
"	20%
"	"
"	"
ideo IF Grid	5%
ideo IF Cathode	"
ideo IF Decoupling	20%
ideo IF Grid	5%
ideo IF Cathode	5%
ideo IF Decoupling	20%
ge Divider	"
ideo IF Grid	5%
ideo IF Cathode	"
ideo IF Plate	5%
ideo IF Decoupling	20%
Det. Diode Load	5%
"	5%
Amp. Grid	20%
Amp. Plate	"
Output Grid	20%
Output Cathode	20%
Output Plate	"
"	20%
ge Divider	"
ound IF Cathode	20%
ound IF Decoupling	20%
ound IF Grid	20%
ound IF Screen Decoupling	20%
ound IF Plate Decoupling	20%
Filament Wire Wound	5%
Diode Load	5%
"	5%
Amp. Grid	20%
Amp. Plate	20%
Sep. Grid	20%
Sep. Cathode	20%
erator	"
"	5%
Osc. Grid	"
Osc. Plate	20%
ge Divider	"
Output Grid	20%
Output Cathode	20%
Peaking	20%
r	20%
r	5%
. AFC Grid	"
. AFC Cathode	"
"	Temp. Comp.
. AFC Plate	"
. AFC Filter Network	20%
ge Divider	"
ack	"
ge Divider Temp. Comp.	"
. Osc. Grid Carbon Film Type	1%
. Osc. Transformer Shunt	"
. Osc. Plate	"
itic Suppressor	20%
. Output Grid	20%
. Output Cathode	"
. Output Screen	"
ack	"
r	"
ack.	"
ct. Filament Wire Wound	20%
lter	20%
Coil Shunt	"
Network Wire Wound	"
r Wire Wound	"
Network Wire Wound	"
ge Divider Wire Wound	"
er Wire Wound	"
Network See Note	"
t. Isolation	20%
nv. Decoupling	20%
c. Grid	"
c. Plate	"
c. Plate	"
nv. Grid	"
c. Grid	"
c. Plate	"
F Cathode	"
F Screen	"
F Decoupling	"
etwork	20%
"	20%
Load	"
1 IF Cathode	"
1 IF Screen Decoupling	"
1 IF Plate Decoupling	20%
ing	"
hasis	"
ing	5%
Det. Diode Load	5%
etwork	20%
ed AVC	20%
Compensation	"
"	"
"	"
Inv. Grid	20%
Inv. Plate	"
d	20%

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R128	270KΩ	1/2	72865	BTS-270K	AF Plate
R129	470KΩ	1/2		BTS-470K	Output Grid
R130	8200Ω	1/2		BTS-8200	"
R131	470KΩ	1/2		BTS-470K	"
R132	560Ω	2		BW-2-560	Output Cathode Wire Wound
R133	100Ω	2			Parasitic Suppressor
R134	3300Ω	2		BW-2-3300	Filter
R135	3300Ω	2		BW-2-3300	"

Note. Used only when Ion trap magnet coil is not used.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	RCA PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.
T1A	117VAC ① 1.84A	720VCT ② .24A	5VAC ③ 3A	5VAC ④ 2A	71772	P-8153	TP-392	P-3059
B	117VAC ① .60A	680VCT ② .073 ADC	5VAC ③ 2A	6.3VAC ④ 3.9A	73150 + + 71975	P-6012 # 11	PH-70B # 11	P-2951 #

†† Add series resistor to reduce plate voltage.
Drill new mounting holes.
++ 50V transformer.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		RCA PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	
T3	117Ω Tap ① 85Ω		72770				Hor. Osc. Coil
T4	165Ω	1310Ω	71775	A-8121	TBO-1	A-4000	Vert. Block. Osc. Trans.
T5	410Ω Tap ① 170Ω	SEC. 1 10.6Ω Tap ② .6Ω	71416	A-8117	TFB-1		Hor. Output Trans.
T6	590Ω	SEC. 2 0Ω	71774	A-8115	TSO-1	A-3035	Vert. Output Trans.
T7A	14Ω	7Ω	71420	DY-1			Hor. Deflection Coil
T8	63Ω			FC-10			Vert. Deflection Coil
T9	255Ω		73233				Focus Coil

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE	DC RES.			RCA PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	
T9	12KΩ CT	2.6Ω	630Ω CT	.2Ω	37899	A-3823	RO-111	A-2901	

SPEAKER

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	RCA PART No.	JENSEN PART No.	QUAM PART No.	
SP1	PM	2.6Ω	71961	ST-102 \$ MOD.P12-S	12A4A	\$ Replace output transformer to match 6-8Ω voice coil.
SP2	CONE DIA.	V. C. DIA.				
	12"	1"				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 μ)	RCA PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	
L1	.240A	64Ω	2.5Henries	71970	C-2325	TR-4225	C-2991	

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	RCA PART No.	MEISSNER PART No.	
L2	Ant. Input	0Ω		71507		Part of Tuner
L3	Inter-ference Trap	0Ω				" " "
L4	Inter-ference Trap	0Ω				" " "
L5	Fil. Chk.	0Ω		71505		" " "
L6	Mixer Grid	0Ω		71506		" " "
L7	1st Video IF and Sound Trap	.2Ω	0Ω	72811		Includes 62MμF capacitor. Part of tuner.
L8	2nd Video IF	.1Ω		71426		
L9	3rd Video IF	.1Ω		73708		
L10	Sound Trap	0Ω	0Ω	71778		Trap winding not used in all receivers. Includes 56MμF capacitor. Includes 75MμF capacitor.
L11	4th Video IF	.1Ω		71426		
L12	Peaking	2.2Ω		71793		
L13	Peaking	6Ω				36 Microhenries 180 Microhenries. Wound on 39KΩ resistor Not used in all receivers.

RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF) CONT.

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	RCA	MEISSNER	
				PART No.	PART No.	
L14	Peaking	4.5Ω		71529		120 Microhenries. Wound on 22KΩ resistor. 36 Microhenries. 120 Microhenries Includes 10MμF capacitor and 33MμF cap. Includes 2-56MμF capacitor and 47MμF cap.
L15	Peaking	2.2Ω		71793		
L16	Peaking	4.5Ω		71529		
L17	Sound IF	0Ω	0Ω	71424		
L18	Disc. Trans.	0Ω	0Ω	71427		
L19	Width Cont.	0Ω		71429		
L20	Hor. Line-arity	36Ω		71449		
L21	FM Ant.	0Ω	0Ω	72335		
L22	FM Osc.	0Ω		72336		
L23	AM Ant.	26Ω	1.5Ω	72071		
L24	AM Osc.	4Ω		72333	14-1060	
L25	FM 1st IF	.5Ω	.8Ω	72887		
L26	AM 1st IF	12Ω	12Ω	71625	16-6658	
L27	FM 2nd IF	1.2Ω	.5Ω	72888		
L28	AM 2nd IF	8Ω	8Ω	71631	16-6660	
L29	Ratio Det. Trans.	.1Ω	.1Ω	72889		
L30	Fil. Chk.	0Ω		72574		

DIAL LIGHTS

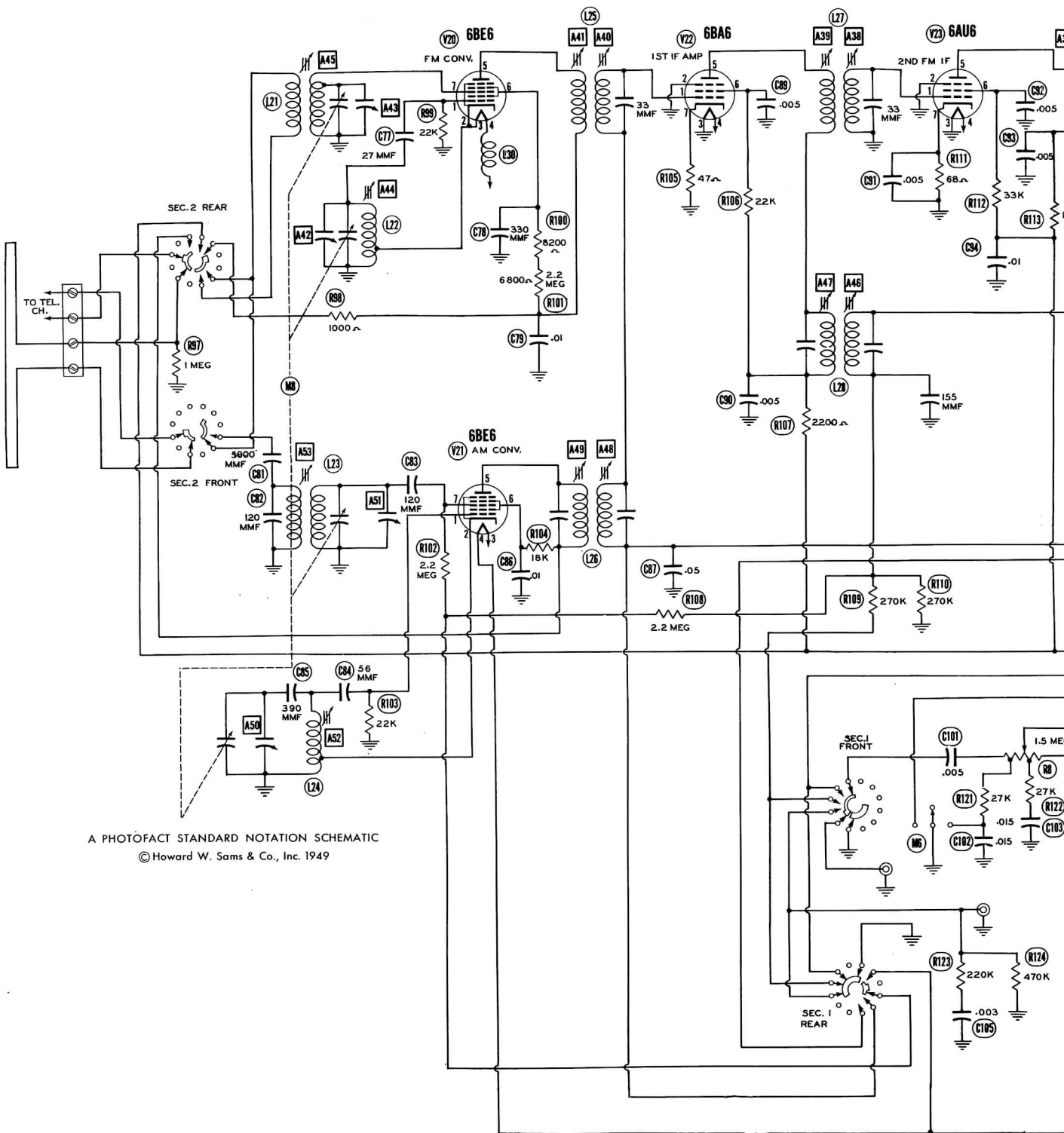
ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					RCA		
					PART No.		
M1	Bayonet	7.5	.2	White	11765		Type #51
M2	Bayonet	7.5	.2	White	11765		Type #51
M3	Bayonet	7.5	.2	White	11765		Type #51
M4	Bayonet	7.5	.2	White	11765		Type #51

MISCELLANEOUS

ITEM No.	PART NAME	RCA PART No.	NOTES
M5	Band Switch	72852	Includes TV Power Switch
M6	Tone Switch	71603	
M7	Fuse		Not used in all sets
M8	Tuning Cap	72059	26-568MμF, 13-368MμF W/T Electo-Magnet
M9	Ion Trap	71792	
M10	Tuner	KRK2B-1	For model 730TV1 For model 730TV2 For radio tuning, band switch, off-volume, and tone switch for walnut or mahogany instruments. For radio tuning, band switch, off-volume and tone switch for toasted mahogany instruments. For fine tuning for walnut or mahogany instruments. For station selector for walnut or mahogany instruments. For brightness and vertical hold for walnut or mahogany instruments. For contrast or horizontal hold for walnut or mahogany instruments. For brightness and vertical hold for toasted mahogany instruments. For contrast and Hor. hold for toasted mahogany instruments. For fine tuning for toasted mahogany instruments.
	Safety Glass	73027	
	Dial Scale	73070	
	Dial Scale	72682	
	Knob	71821	
	Knob	72800	
	Knob	71533	
	Knob	71534	
	Knob	71535	
	Knob	71536	
Knob	72565		
Knob	72566		
Knob	72567		

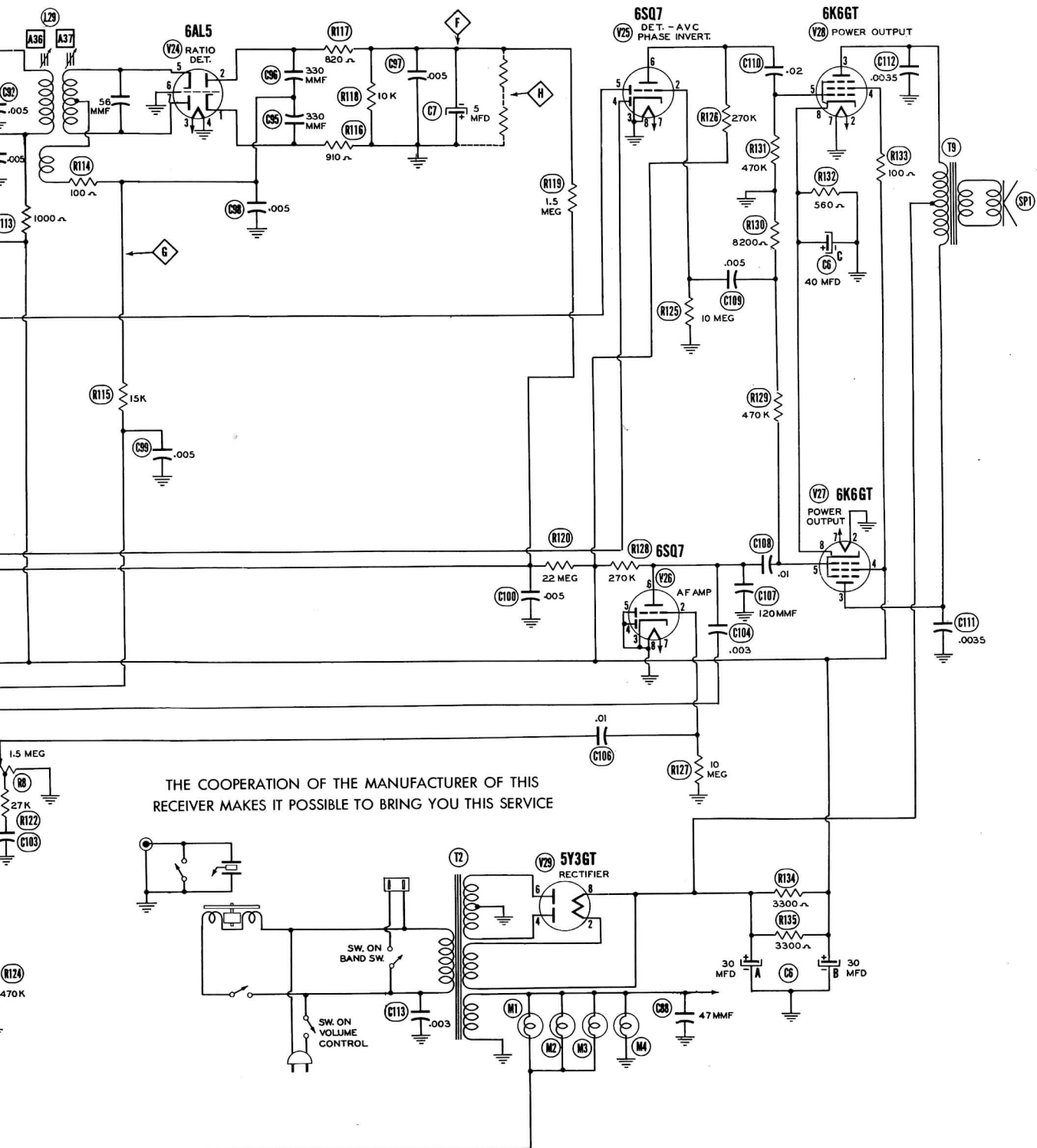
DISASSEMBLY INSTRUCTIONS

1. Remove 3 push-on type knobs from TV controls.
2. Remove 4 push-on type knobs from receiver controls.
3. Remove 9 screws holding rear cover.
4. Remove picture tube base socket and Ion trap.
5. Remove HV cap from picture tube.
6. Remove 2 phillips-head screws from upper corners of picture tube front plate. Remove front plate.
7. Loosen 4 screws holding clamps at large end of picture tube. Remove tube, slide forward.
8. Remove TV power plug from rear of receiver chassis.
9. Remove TV audio plug from rear of receiver chassis.
10. Remove TV antenna plug from rear of receiver chassis.
11. Remove 7 hex head bolts holding TV chassis.
12. Remove TV chassis.
13. Remove speaker plug at speaker.
14. Remove phono audio plug from rear of receiver chassis.
15. Remove receiver antenna plug from rear of receiver chassis.
16. Disconnect phono power plug.
17. Remove panel lamp from inside bottom front center of cabinet.
18. Remove panel lamp from phono section.
19. Remove two hex head bolts from rear of receiver mounting board.
20. Remove two hex nuts holding receiver chassis to mounting board. Remove hooked studs by pushing up and turn.
21. Remove receiver chassis.
22. Remove four hex nuts holding speaker.
23. Remove speaker.

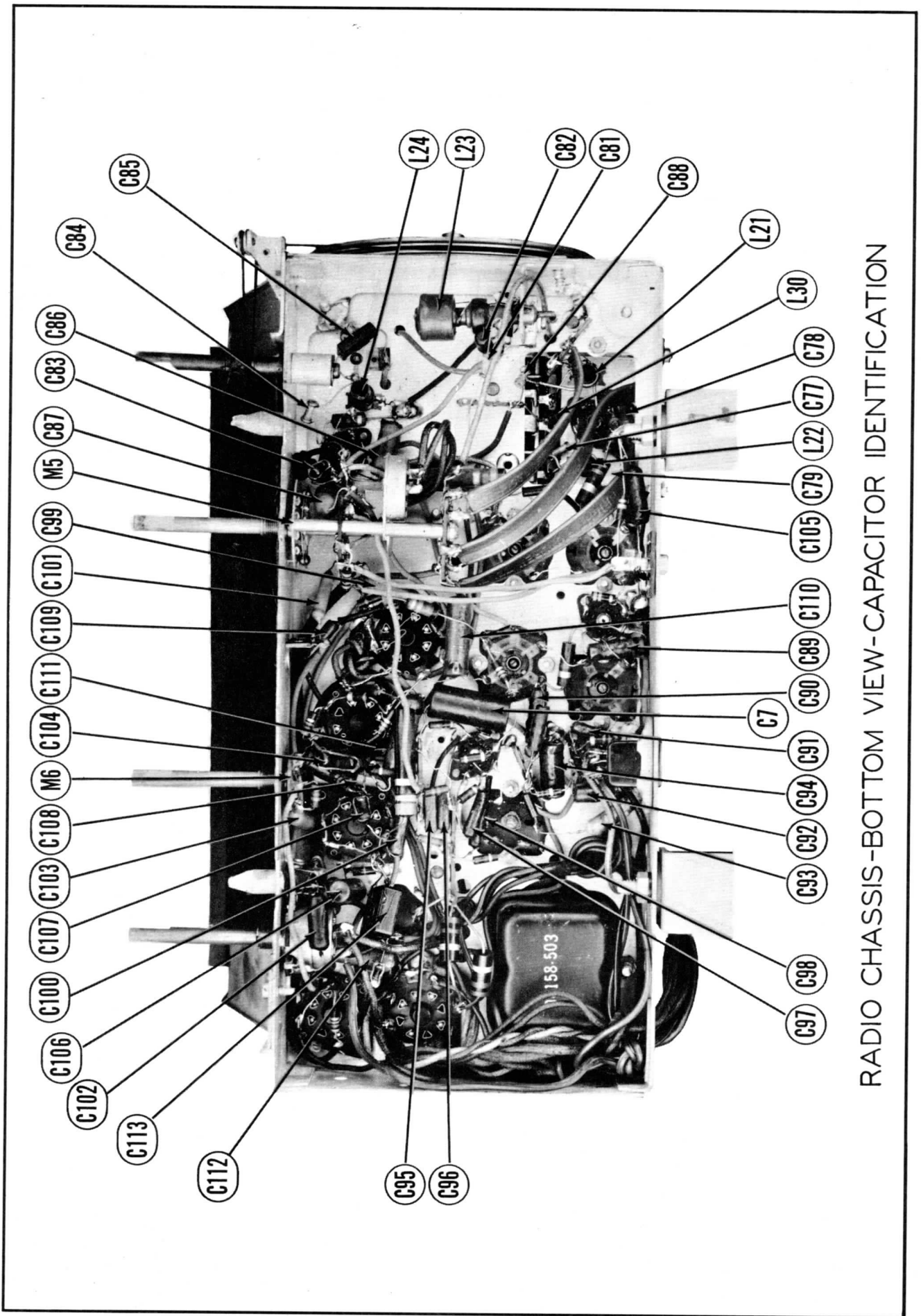


A PHOTOFAC STANDARD NOTATION SCHEMATIC
 © Howard W. Sams & Co., Inc. 1949

**RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)**

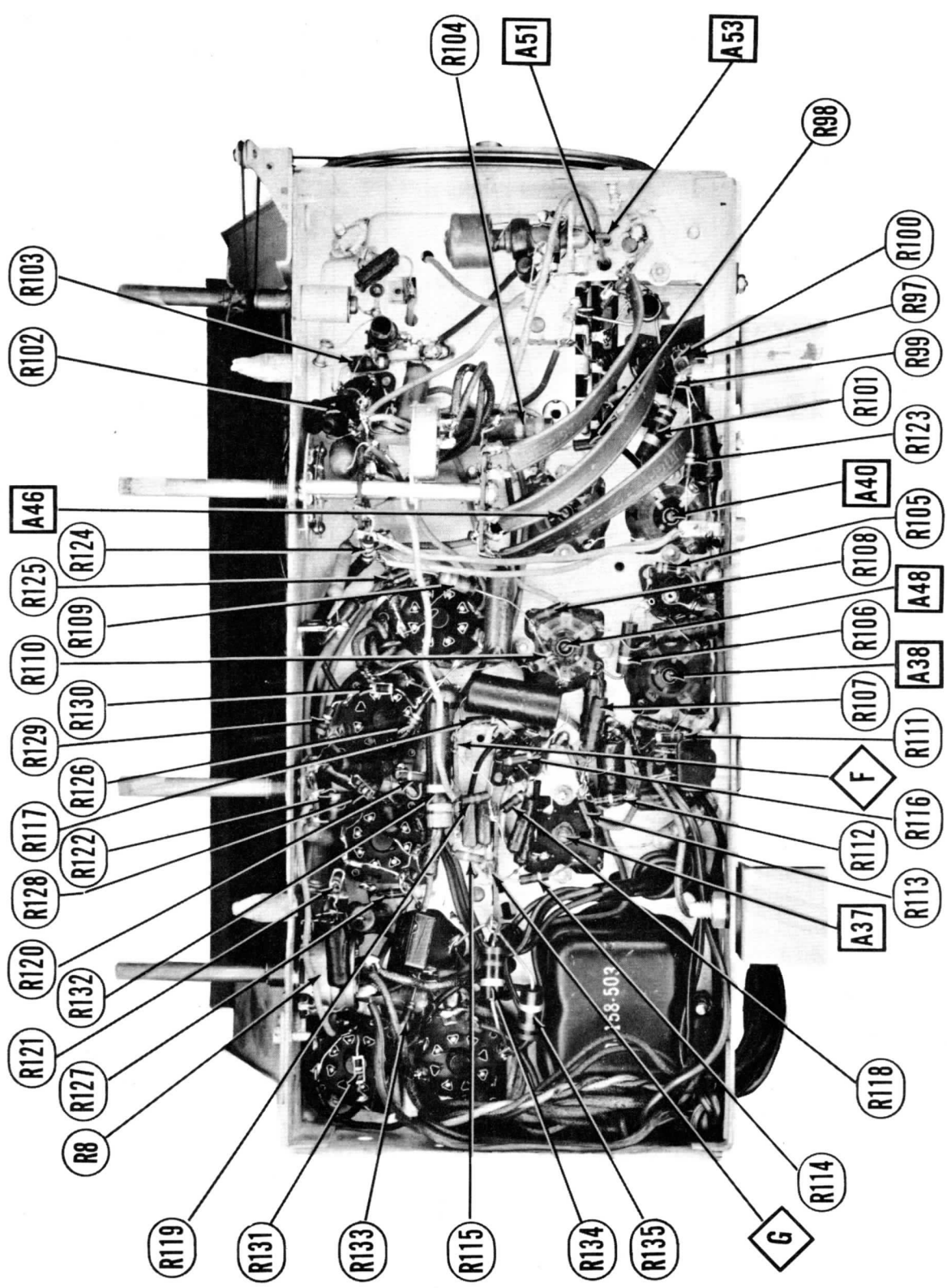


THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

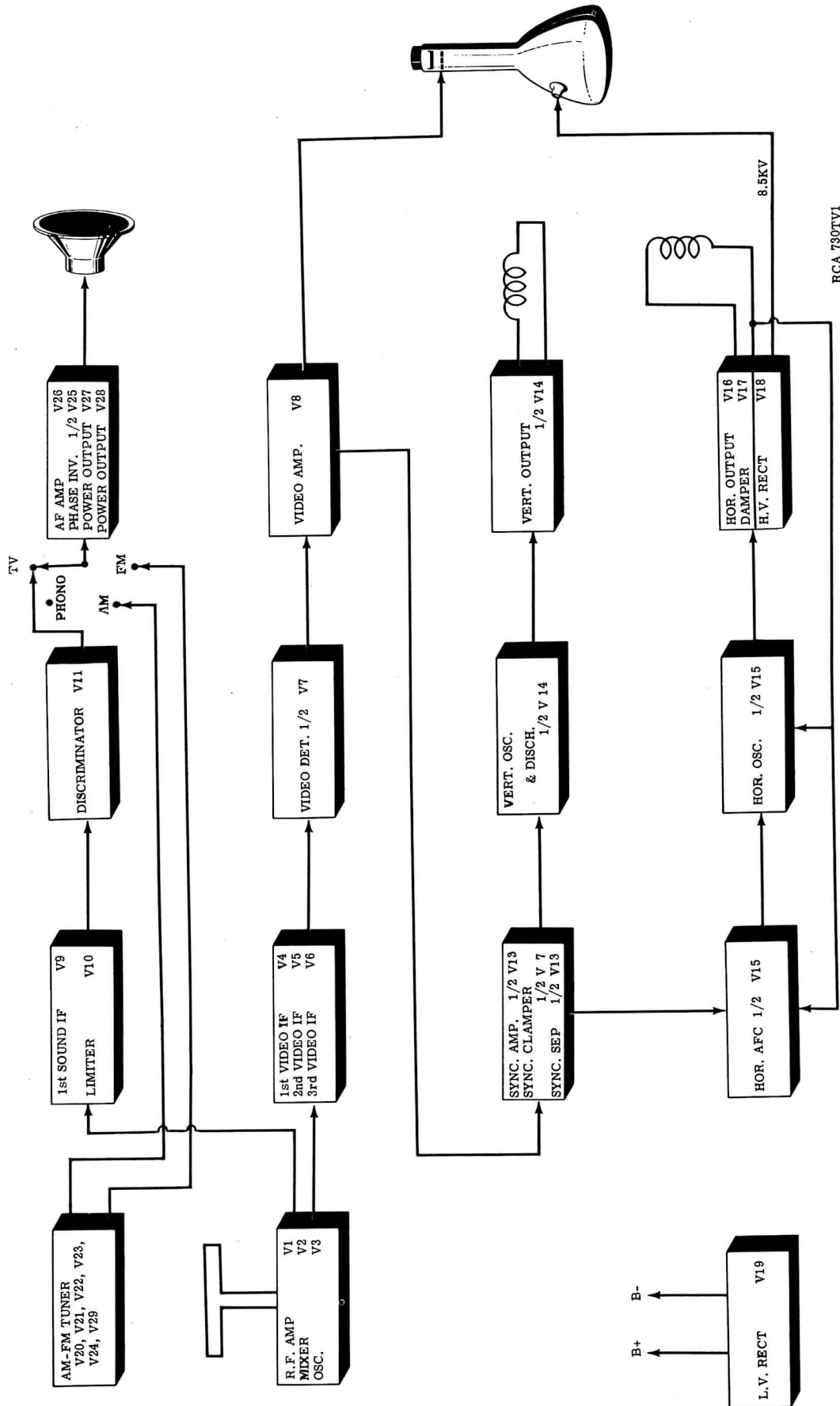


RADIO CHASSIS-BOTTOM VIEW-CAPACITOR IDENTIFICATION

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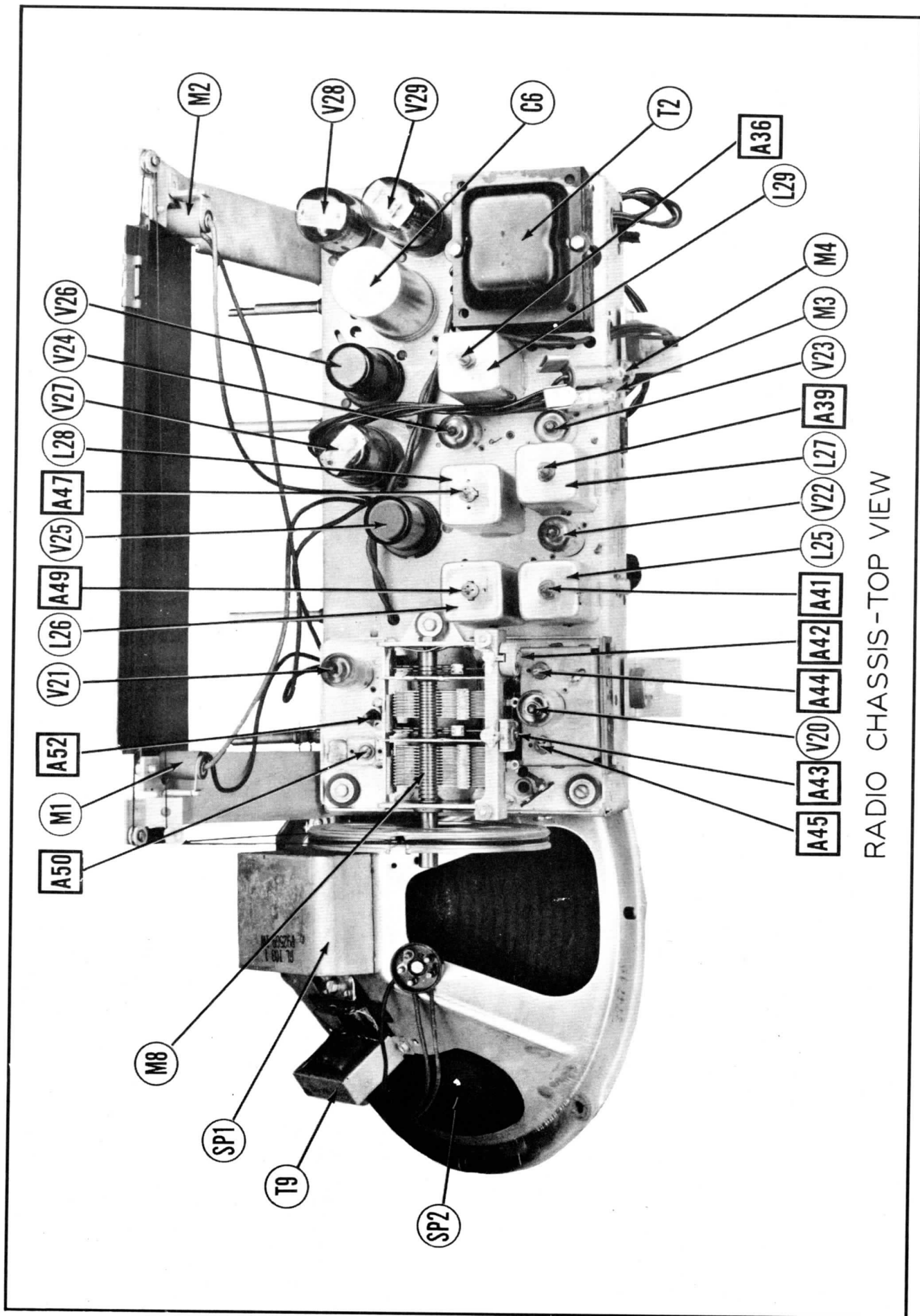


RADIO CHASSIS - BOTTOM VIEW - RESISTOR IDENTIFICATION



BLOCK DIAGRAM

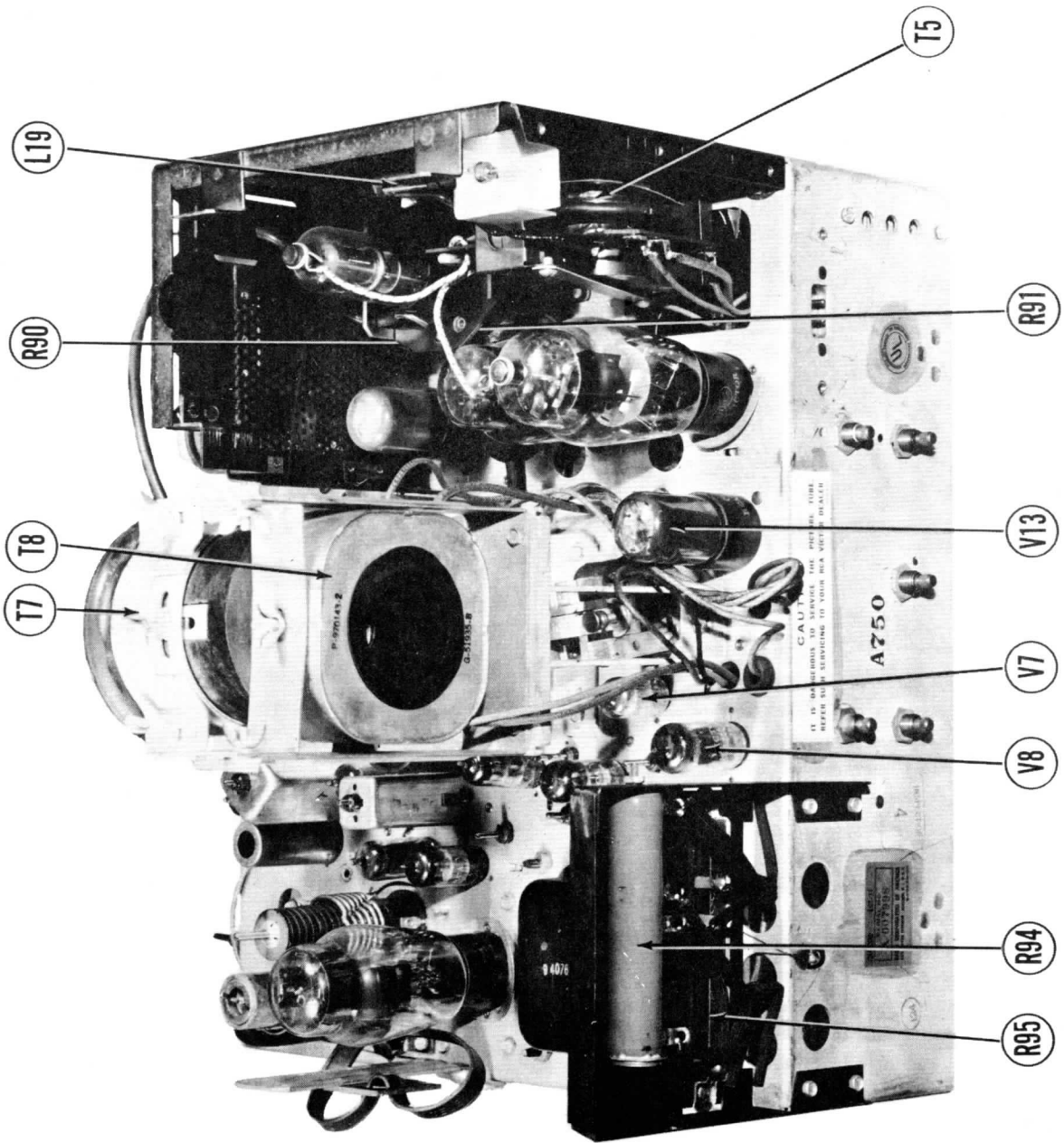
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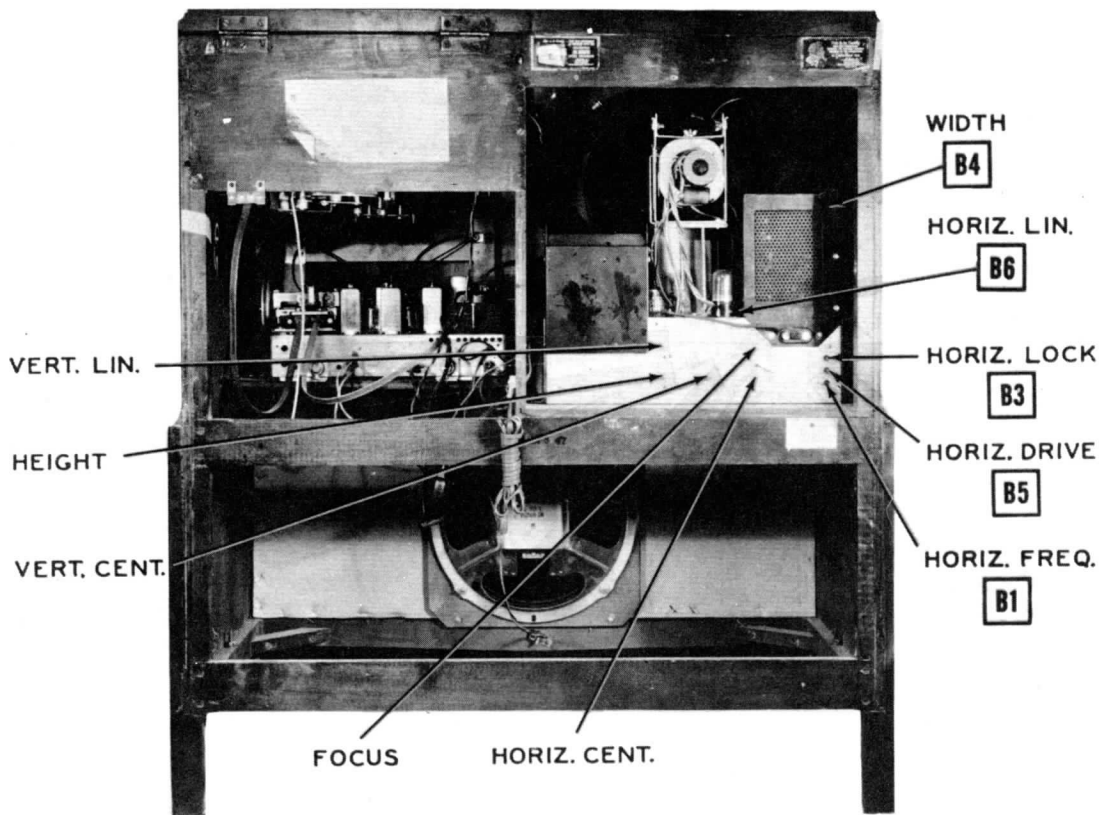


RADIO CHASSIS-TOP VIEW

RCA VICTOR
MODELS 730TV1, 730TV2,
(Ch. KCS27-1)

RADIO CHASSIS-BOTTOM VIEW





CABINET-REAR VIEW

HORIZONTAL OSCILLATOR AND LINEARITY ADJUSTMENTS

HORIZONTAL OSCILLATOR ALIGNMENT CHECK:

Tune in test pattern and turn horizontal hold control to extreme counter-clockwise position. Picture should remain in synchronization. Turn channel switch to another channel and then back to the original channel. Normally, the picture should be out of synchronization. Turn the control clockwise and the picture should slowly begin to synchronize and finally lock-in. This should occur when the control is approximately 90° from the extreme counter-clockwise position. The picture should remain in synchronization for another 90° in the clockwise direction of the control. At the extreme clockwise position the picture should again drop out of synchronization and 3½ to 4½ bars should be seen sloping downward to the right. If the receiver fails to hold synchronization during this check with the hold control at the extreme counter-clockwise position or fails to hold synchronization for at least 60° in the clockwise direction from the point when it drops into "sync" it will be necessary to align the horizontal oscillator circuit as follows:

(A) HORIZONTAL OSCILLATOR ALIGNMENT:

Turn horizontal hold control to extreme clockwise position. Tune in test pattern and adjust trimmer B1 until picture is out of sync. and shown 3½ to 4½ bars sloping downward to the right. If the trimmer has insufficient range, set it to its mid-position (one turn from tight) and adjust slug B2 until bars appear.

(B) HORIZONTAL LOCKING ALIGNMENT:

Turn the horizontal hold control to full counter-clockwise position. Switch to another channel and back to the original again.

Slowly turn horizontal hold control clockwise and note the least number of diagonal bars present just before picture syncs. If more than 4½ bars are present just before picture sync. adjust "horizontal lock" trimmer B3 slightly clockwise. If less than 3½ bars are present adjust B3 slightly counter-clockwise and switch channel selector to another channel and back again. Re-count bars present at the "lock-in" point. Repeat this procedure until 3½ to 4½ bars are present.

Repeat Steps (A) & (B) until conditions exist as outlined under "Horizontal Oscillator Alignment Check".

WIDTH, DRIVE & HORIZONTAL LINEARITY ADJUSTMENTS:

Turn width control B4 to maximum clockwise position. Adjust "horizontal drive" trimmer B5 for maximum brightness and linearity. Adjust horizontal linearity B6 for best linearity in the right half of the picture. Readjust width control until picture fills the mask.

HEIGHT & VERTICAL LINEARITY ADJUSTMENTS:

Adjust the height control until picture fills mask vertically. Adjust the vertical linearity control until the test pattern is symmetrical from top to bottom.

Due to interaction between these two controls it is necessary to repeat the adjustment. Adjust the vertical centering control to align the picture with the mask.

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
V 1	6J6	145VDC	145VDC	6.3VAC	OV	-8.8VDC	-8.9VDC	OV		
V 2	6J6	140VDC	140VDC	6.3VAC	OV	-2.2VDC	-3.9VDC	OV		
V 3	6J6	75VDC	75VDC	6.3VAC	OV	$\frac{3}{8}$ -6.8 VDC	$\frac{3}{8}$ -6.4 VDC	.3VDC		
V 4	6AG5	-8.5VDC	OV	6.3VAC	OV	145VDC	145VDC	OV		
V 5	6AG5	-8.8VDC	OV	6.3VAC	OV	145VDC	145VDC	OV		
V 6	6AG5	OV	1.3VDC	6.3VAC	OV	95VDC	140VDC	1.3VDC		
V 7	6AL5	OV	-2VDC	OV	6.3VAC	OV	OV	-1.1VDC		
V 8	12AU7	127VDC	-5VDC	OV	6.3VAC	6.3VAC	150VDC	OV	7VDC	OV
V 9	6BA6	OV	OV	OV	6.3VAC	125VDC	125VDC	1.5VDC		
V 10	6AU6	-5.5VDC	OV	OV	6.3VAC	140VDC	85VDC	OV		
V 11	6AL5	OV	-1.1VDC	6.3VAC	1.8VDC	OV	OV	-1.1VDC		
V 12	6AT6	OV	OV	OV	6.3VAC	OV	-9VDC	OV		
V 13	6SN7GT	-6VDC	150VDC	OV	-2VDC	232VDC	9.4VDC	6.3VAC	OV	
V 14	6SN7GT	OV	72VDC	OV	OV	250VDC	25VDC	6.3VAC	OV	
V 15	6SN7GT	OV	95VDC	OV	OV	137VDC	95VDC	6.3VAC	OV	
V 16	6BQ6	OV	6.3VAC	-65VDC	OV	OV	OV	OV	175VDC	*
V 17	5U4G	OV	320VDC	320VDC	260VDC	OV	260VDC	OV	320VDC	
V 18	1B3GT									
V 19	5U4G	OV	275VDC	OV	380VAC	OV	380VAC	OV	275VDC	
V 20	6BE6	$\frac{3}{8}$ -2 VDC	OV	OV	6.3VAC	260VDC	130VDC	OV		
V 21	6BE6	$\frac{3}{8}$ -8 VDC	OV	OV	6.3VAC	250VDC	95VDC	OV		
V 22	6BA6	-3VDC	OV	OV	6.3VAC	210VDC	120VDC	.7VDC		
V 23	6AU6	OV	OV	OV	6.3VAC	240VDC	150VDC	.8VDC		
V 24	6AL5	2.5VDC	-1.1VDC	6.3VAC	OV	-1.1VDC	OV	2.9VDC		
V 25	6SQ7	OV	-2VDC	OV	-3VDC	-4VDC	105VDC	6.3VAC	OV	
V 26	6SQ7	OV	-3VDC	OV	OV	OV	105VDC	6.3VAC	OV	
V 27	6K6GT	OV	OV	310VDC	240VDC	OV	OV	6.3VAC	20VDC	
V 28	6K6GT	OV	6.3VAC	310VDC	240VDC	OV	OV	OV	20VDC	
V 29	5Y3GT	OV	310VDC	240VDC	320VAC	OV	320VAC	OV	310VDC	
V 30	10BP4	140VDC	75VDC	PIN 10 290VDC	PIN 11 220VDC	PIN 12 140VDC				

* DO NOT MEASURE.

† Measured from Pin 3 of V14.

* Do Not Measure.

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6J6	16.5K Ω	16.5K Ω	.1 Ω	OV	100K Ω	100K Ω	OV		
V 2	6J6	12K Ω	12K Ω	.1 Ω	OV	1 Meg.	1 Meg.	OV		
V 3	6J6	15.5K Ω	15.5K Ω	.1 Ω	OV	100K Ω	100K Ω	47 Ω		
V 4	6AG5	20K Ω	39 Ω	.1 Ω	OV	12K Ω	12K Ω	39 Ω		
V 5	6AG5	12K Ω	39 Ω	.1 Ω	OV	12K Ω	12K Ω	39 Ω		
V 6	6AG5	15K Ω	150 Ω	.1 Ω	OV	18.5K Ω	12K Ω	150 Ω		
V 7	6AL5	.2 Ω	4 Meg.	OV	.1 Ω	OV	OV	2K Ω		
V 8	12AU7	14.5K Ω	1 Meg.	OV	.1 Ω	.1 Ω	15.5K Ω	1 Meg.	47 Ω	OV
V 9	6BA6	OV	OV	OV	.1 Ω	12.2K Ω	12.2K Ω	82 Ω		
V 10	6AU6	470K Ω	OV	OV	.1 Ω	12K Ω	123K Ω	OV		
V 11	6AL5	200K Ω	100K Ω	.1 Ω	2.1 Ω	OV	OV	100K Ω		
V 12	6AT6	Inf.	OV	OV	.1 Ω	Inf.	100K Ω	Inf.		
V 13	6SN7GT	1 Meg.	115K Ω	OV	4 Meg.	1300 Ω	6.8K Ω	.1 Ω	OV	
V 14	6SN7GT	1 Meg.	2.3 Meg	OV	2.2 Meg.	12K Ω	5K Ω	.1 Ω	OV	
V 15	6SN7GT	850K Ω	320K Ω	280K Ω	200K Ω	140K Ω	OV	.1 Ω	OV	
V 16	6BQ6	Inf.	.1 Ω	82 Ω	Inf.	1 Meg.	Inf.	15.5K Ω	200K Ω	TOP CRP 200 Ω
V 17	5U4G	Inf.	200K Ω	200K Ω	70 Ω	Inf.	170 Ω	Inf.	200K Ω	
V 18	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CRP 450 Ω
V 19	5U4G	Inf.	4.5K Ω	Inf.	670 Ω	Inf.	680 Ω	Inf.	4.5K Ω	
V 20	6BE6	22K Ω	OV	OV	.1 Ω	3K Ω	18K Ω	OV		
V 21	6BE6	22K Ω	OV	OV	.1 Ω	2K Ω	20K Ω	4.5 Meg		
V 22	6BA6	2.5 Meg.	OV	OV	.1 Ω	4K Ω	26K Ω	68 Ω		
V 23	6AU6	1 Ω	OV	OV	.1 Ω	3K Ω	33K Ω	68 Ω		
V 24	6AL5	920 Ω	11K Ω	.1 Ω	OV	Inf.	OV	Inf.		
V 25	6SQ7	OV	10 Meg.	OV	2.5 Meg	270K Ω	270K Ω	.1 Ω	OV	
V 26	6SQ7	OV	10 Meg.	OV	OV	OV	270K Ω	.1 Ω	OV	
V 27	6K6GT	OV	OV	350 Ω	2K Ω	480K Ω	8.2K Ω	.1 Ω	560 Ω	
V 28	6K6GT	OV	.1 Ω	350 Ω	2K Ω	470K Ω	Inf.	OV	560 Ω	
V 29	5Y3GT	OV	800K Ω	800K Ω	250 Ω	Inf.	280 Ω	Inf.	800K Ω	
V 30	10BP4	11000 Ω	15K Ω	PIN 10 56K Ω	PIN 11 1280 Ω	PIN 12 11000 Ω				

† Measured From Pin 8 Of V19.
 † Measured From Pin 3 Of V14.
 † Measured From Pin 8 Of V17.
 † Measured From Pin 8 Of V29.

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

RCA VICTOR
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