

RCA VICTOR MODELS T164, TC165, TC166, TC167, TC168, 6T72 (Ch. KCS40, A, B)

RCA VICTOR MODEL TC-168

TRADE NAME	RCA Victor Models T164 (Ch. KCS40), TC165, TC166, TC167, TC168 (Ch. KCS40A), 6T72 (Ch. KCS40B)	
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, New Jersey	
TYPE SET	Television Receiver	
TUBES	Twenty Four	
POWER SUPPLY	110-120 Volts AC-60 Cycles	RATING 2.1 Amp. at 117 Volts AC
TUNING RANGE	Channels 2 thru 13	

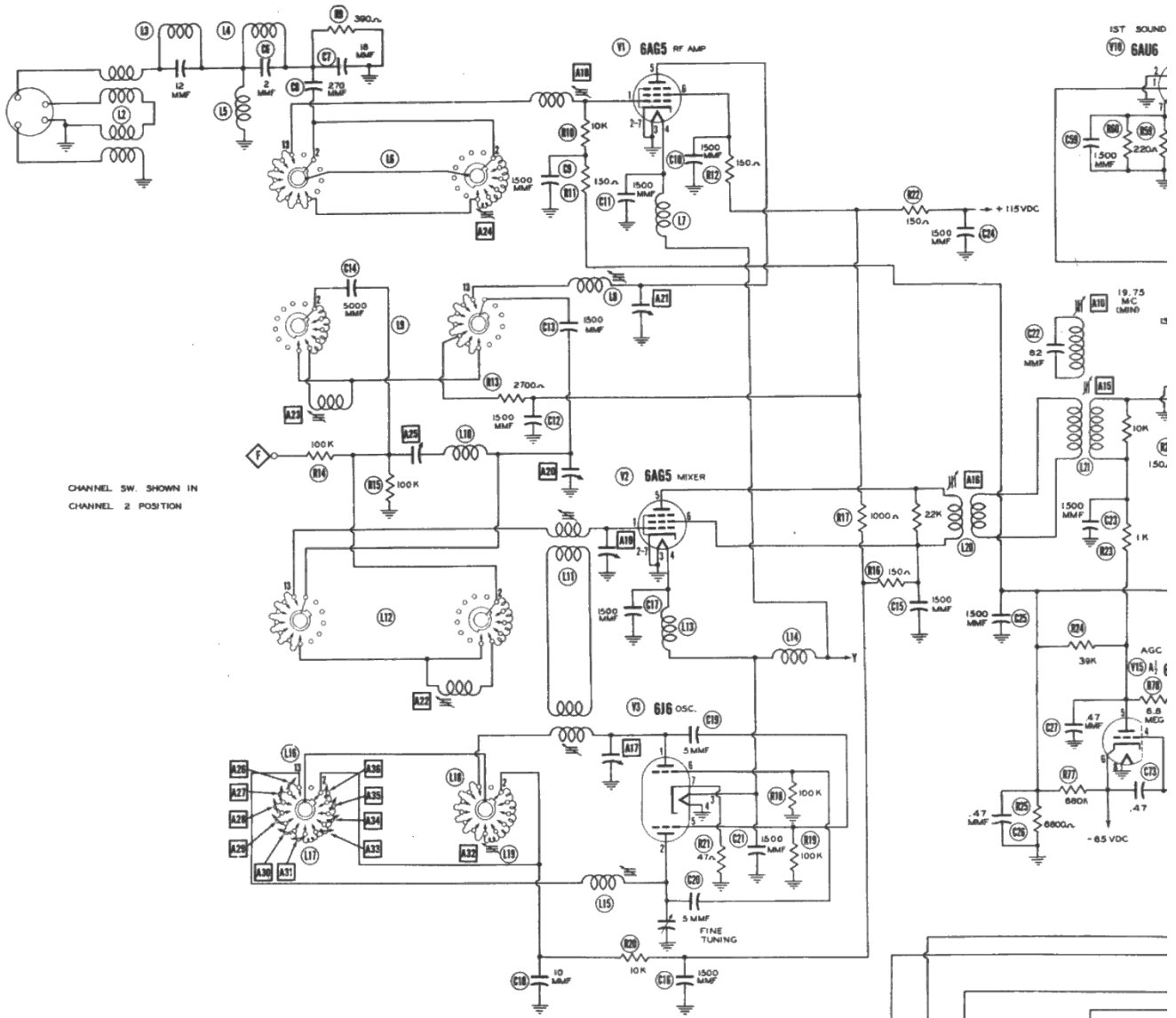
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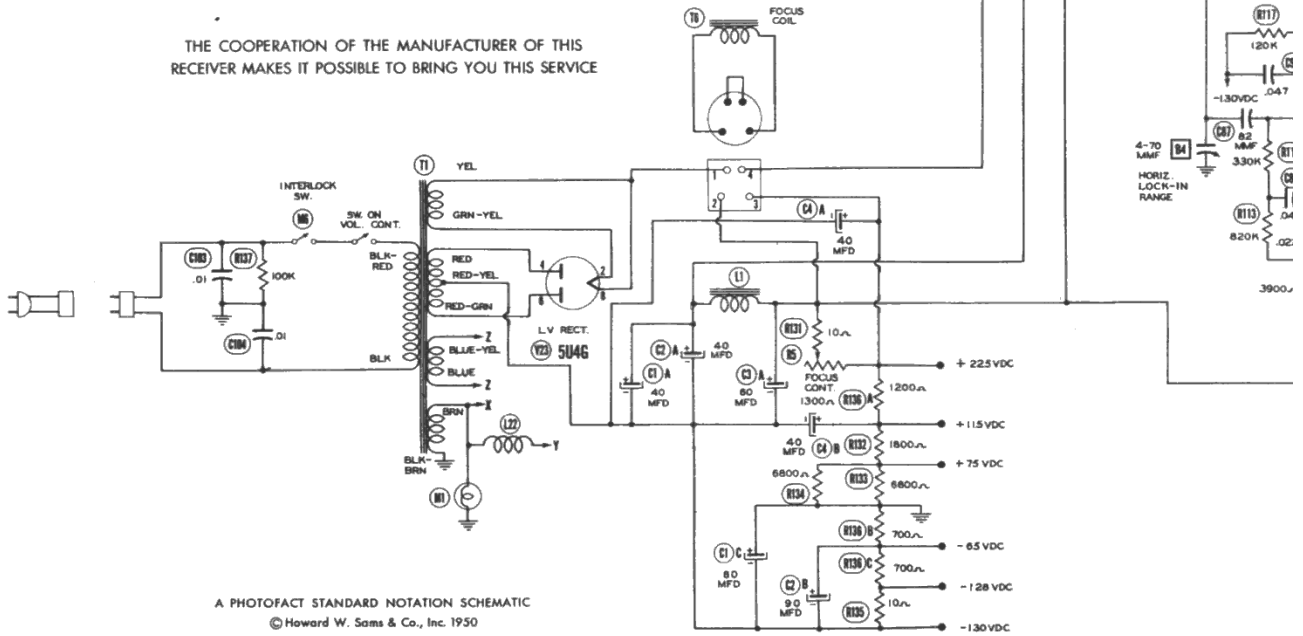
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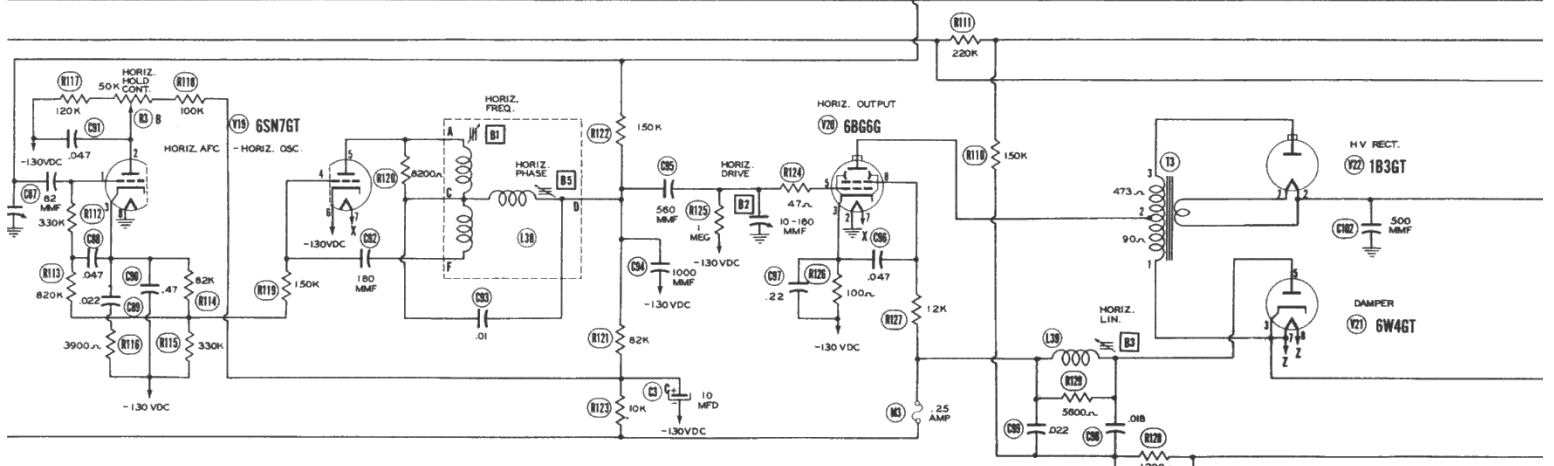
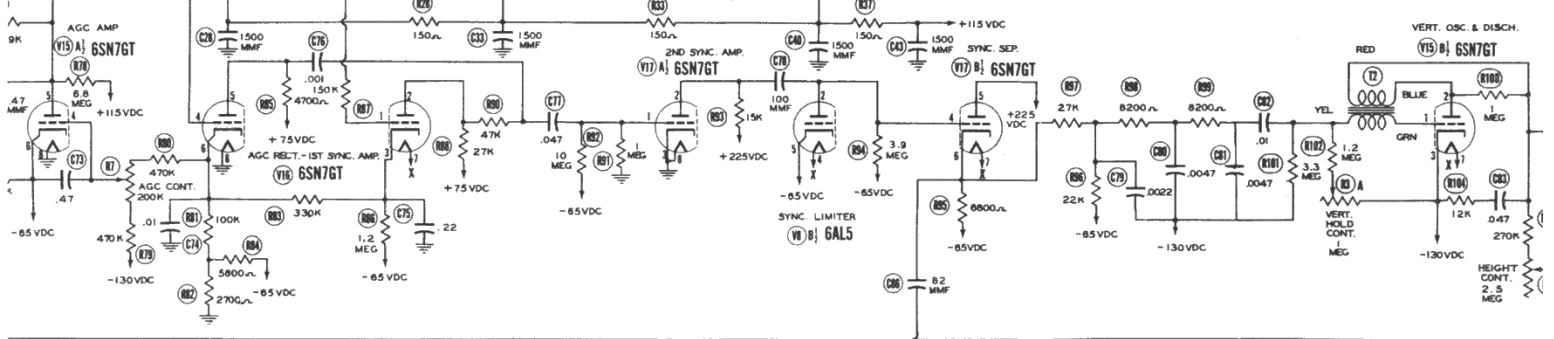
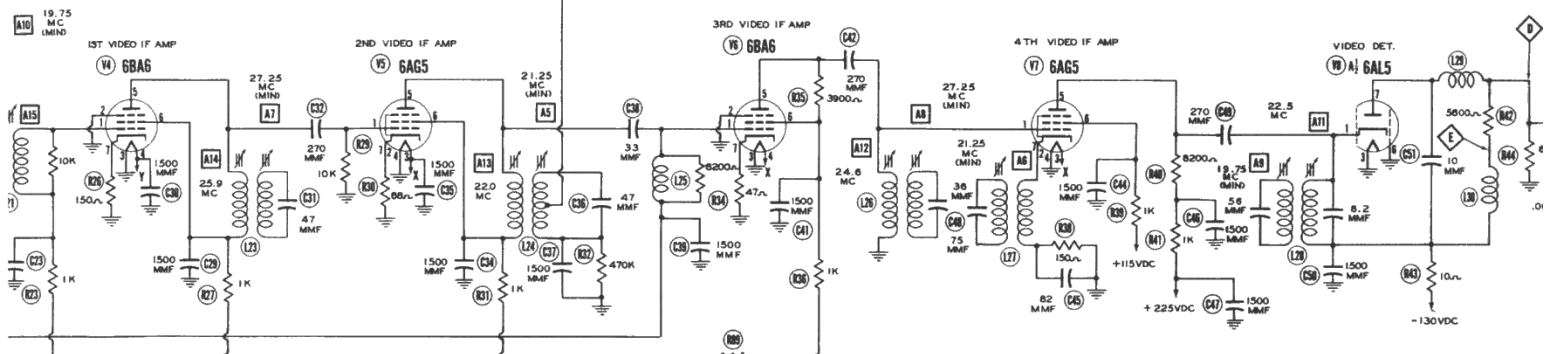
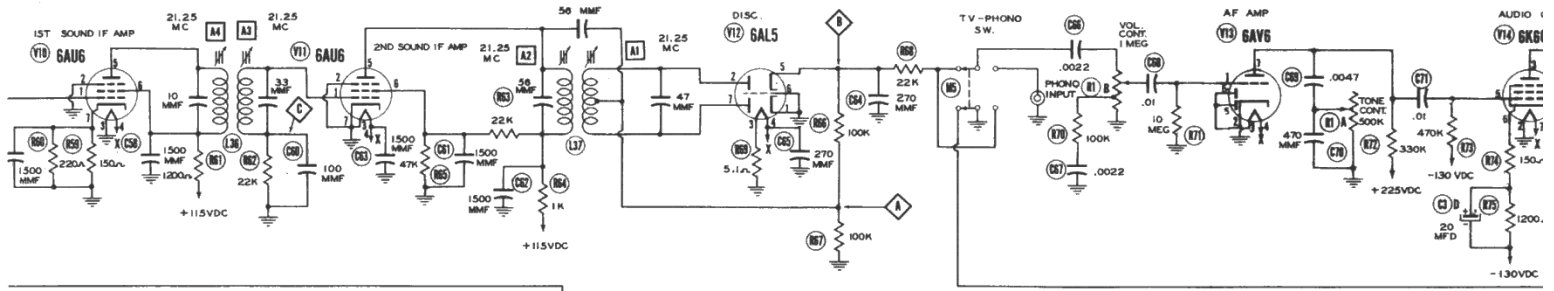
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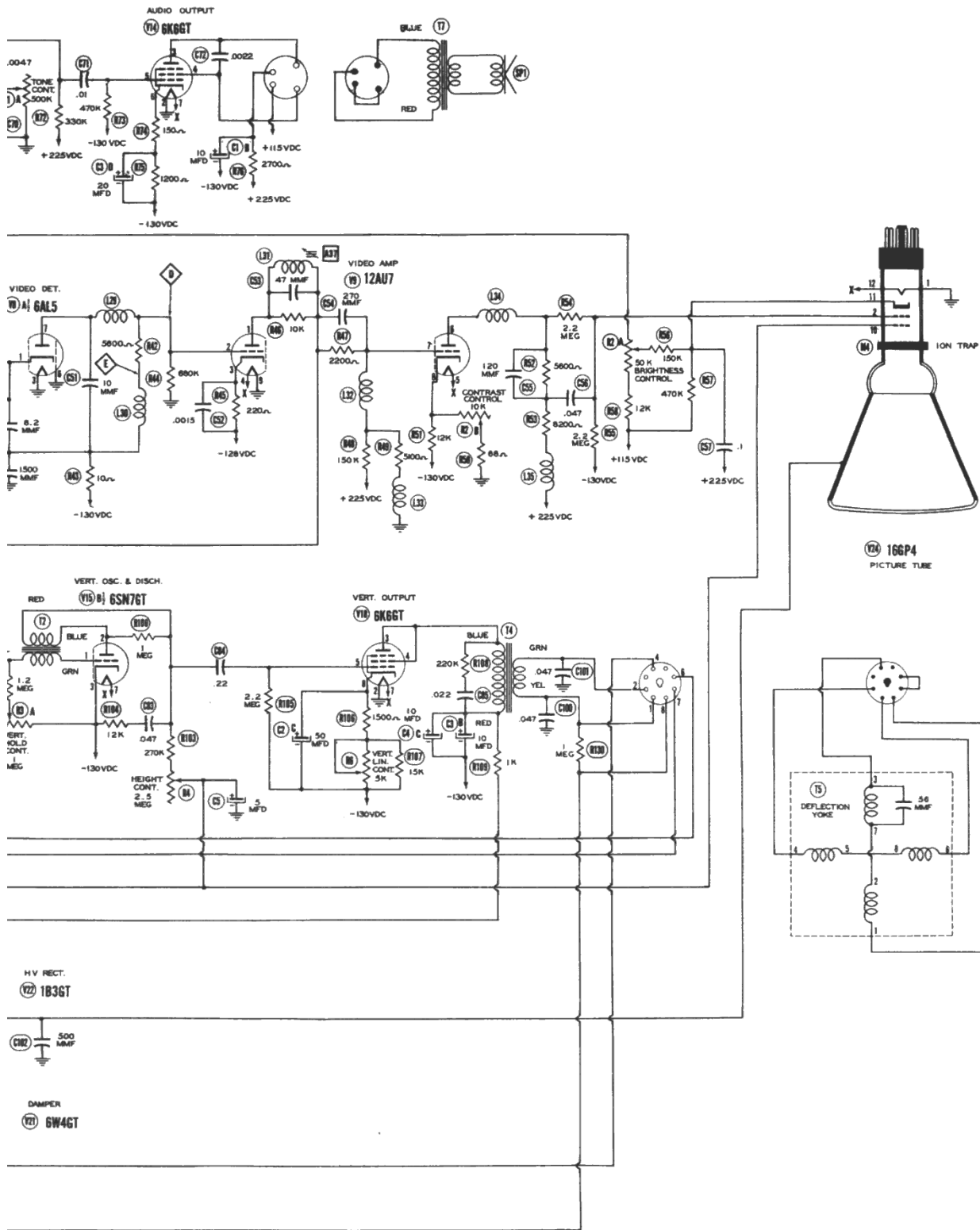


THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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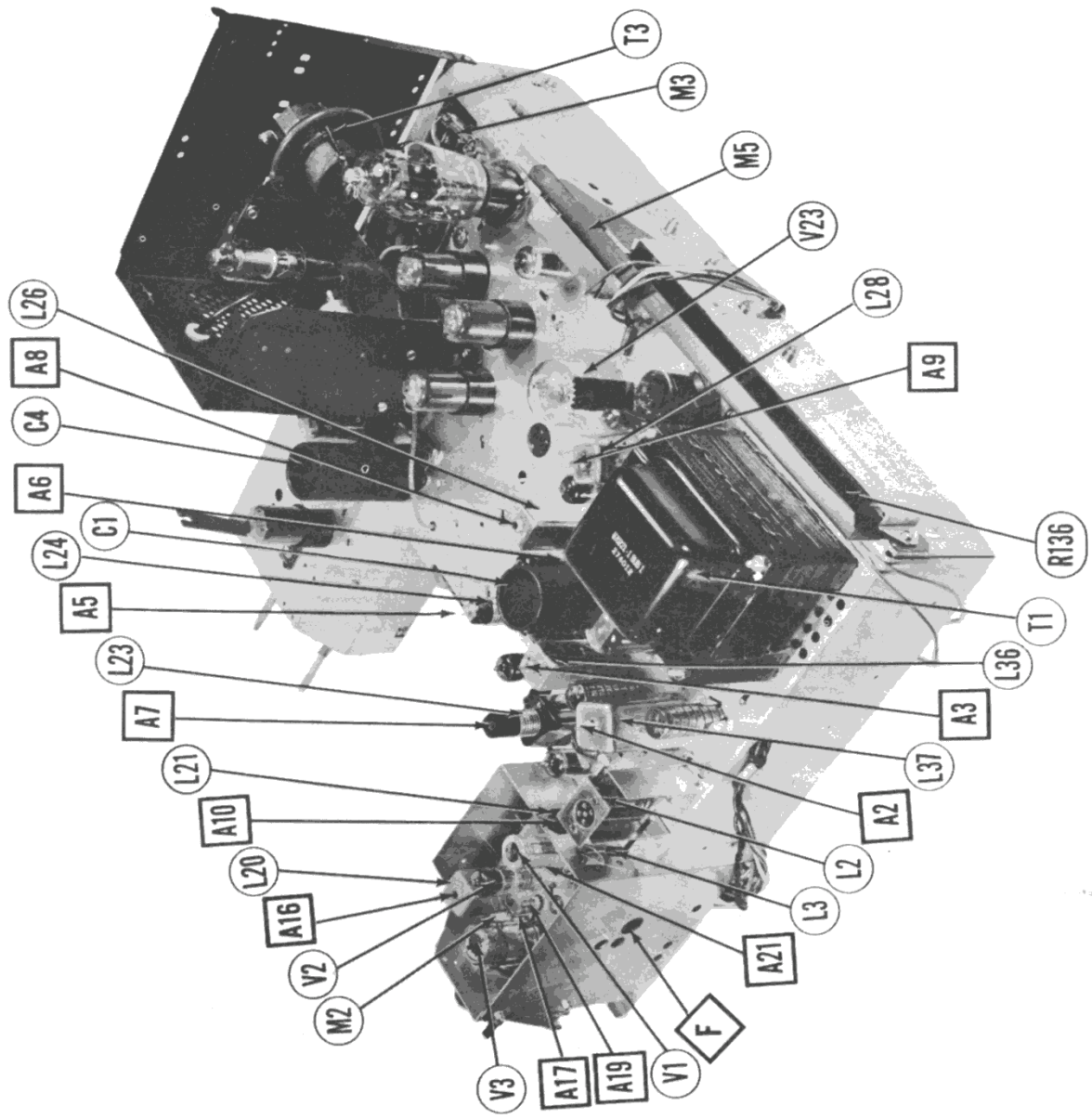


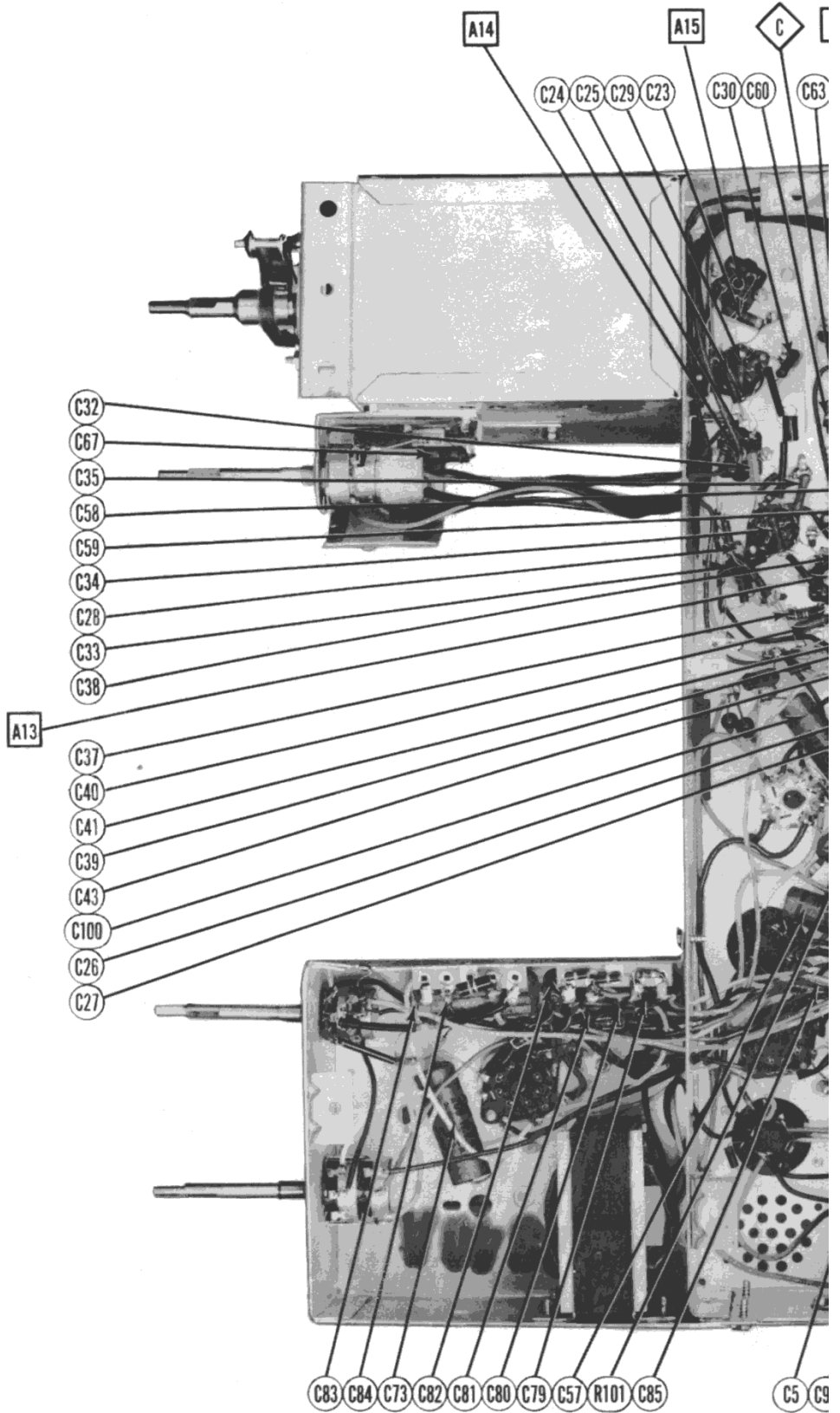
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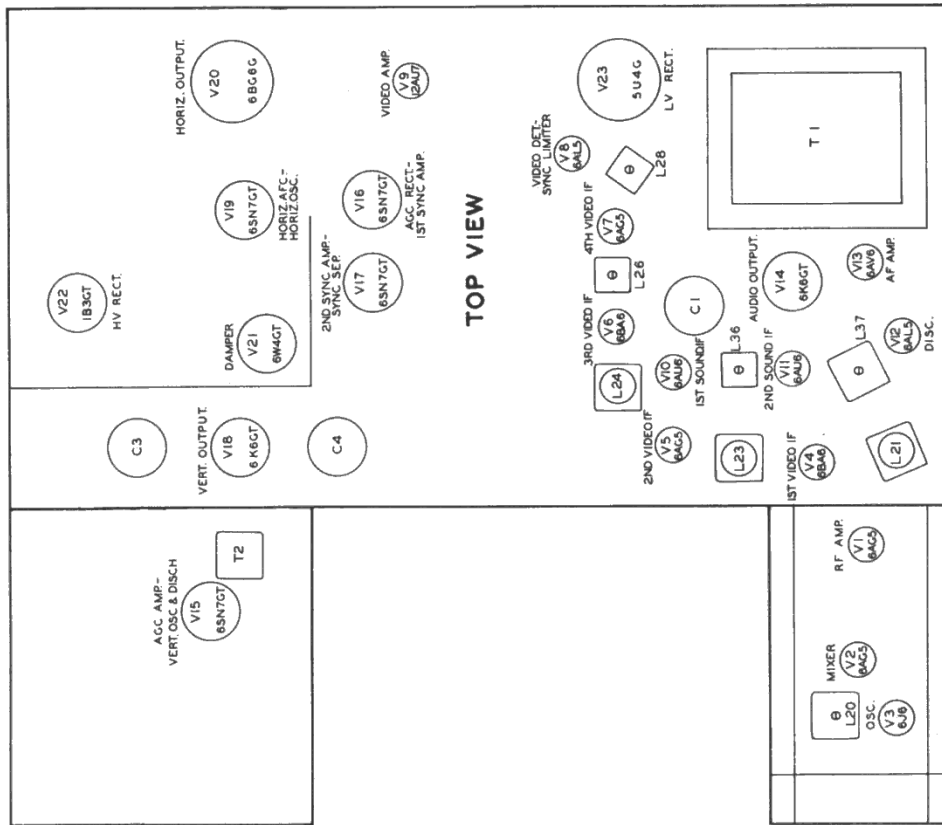
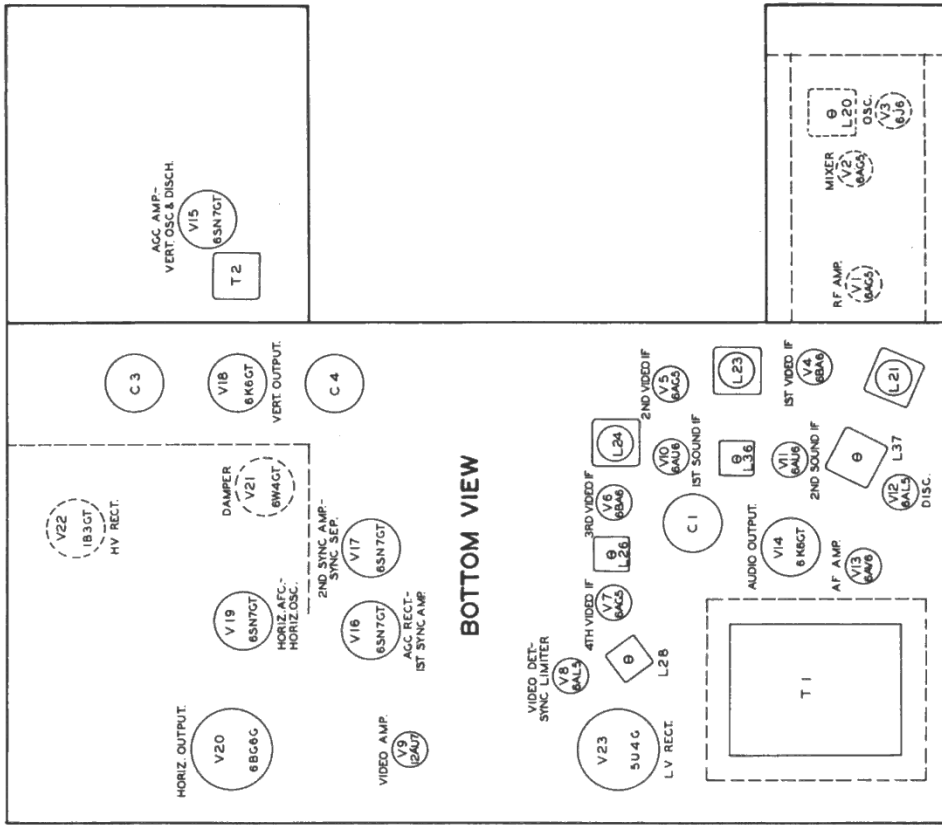
RCA VICTOR MODELS T164, T165, T166,
 T167, T168, 6T72 (Ch. KCS40, A, B)

MAIN CHASSIS TOP VIEW





CHASSIS BOTTOM VIEW-CAPACITOR A



**RCA VICTOR MODELS T164, T165, T166,
TC167, TC168, 6T72 (Ch. KCS40, A, B)
TUBE PLACEMENT CHART**

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To eliminate the high voltage shock hazard remove the horizontal output tube (V20) from its socket.
Remove local oscillator tube (V3) to prevent erroneous indications.

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 (V17). Low side to chassis.	21.25MC (Unmod.)	Any	DC Probe to Point A . Common to chassis.	A1, A2	Detune A1. Adjust A2 for maximum deflection.
2. .05MFD	"	"	"	DC Probe to Point 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 6AU6 (V10). Low side to chassis.	"	"	DC Probe thru 10K Ω to Point 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 6AU6 (V10). Low side to chassis.	21.25MC (450KC SWP)	21.25MC	Any	Vert. Amp. thru 33K Ω to Point C . Low side to chassis.	A3, A4	Adjust for maximum amplitude and symmetry as per figure 1.
2. .05MFD	"	"	"	"	Vert. Amp. to Point B . Low side to chassis.	A1, A2	Adjust A1 to place 21.25MC at center of diagonal line as per figure 2. Adjust A2 for maximum amplitude and straightness of diagonal line. Continue with step 4.

VIDEO IF ALIGNMENT

Remove the AGC amplifier tube (V15) and connect a 250K Ω potentiometer between pins 5 and 6. Connect the DC Probe of a VTVM at the junction of R24 and C27 and the common lead to chassis. Adjust potentiometer for -12 volts readings.
Turn the channel selector switch to the blank position between channel 2 and channel 13.
Before attempting step 11 connect a 330 Ω carbon resistor across the primary's of L23, L24, L26 and L28. Connect the VTVM as outlined above and adjust the 250K Ω potentiometer for 0-2 volts reading.
It should be noted that both leads of the VTVM are at a -120 volts potential. Avoid touching or grounding the VTVM case.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. Direct	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	Not used	21.25MC (Unmod.)	As described above	Use VTVM. DC Probe to Point D . Common to Point E .	A5, A6	Adjust for MINIMUM deflection.
5. Direct	"	"	27.25MC	"	"	A7, A8	"
6. Direct	"	"	19.75MC	"	"	A9, A10	"
7. Direct	"	"	22.5MC	"	"	A11	Adjust for maximum deflection. Attenuate signal generator to maintain a maximum -2 volts reading.
8. Direct	"	"	24.6MC	"	"	A12	"
9. Direct	"	"	22MC	"	"	A13	"
10. Direct	"	"	25.9MC	"	"	A14	"
11. Direct	"	24MC (10MC SWP)	22.05MC 24.75MC	"	Vert. Amp. to pin 1 (plate) of 12AU7 (V9). Low side to chassis.	A15, A16	Adjust for response curves similar to figure 3 with markers as shown. Remove 330 Ω resistors from L23, L24, L26 and L28. Readjust 250K Ω potentiometer to read -12 volts at junction of R24 and C27.
12. Direct	"	"	22.1MC 25MC 25.75MC 26.5MC	"	"		Check for response curve similar to figure 4. The 25.75MC marker should be at 45% of response. If necessary, SLIGHTLY retouch A-11 thru A16 for proper response.

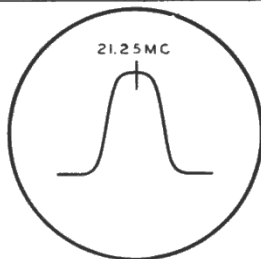


FIG. 1

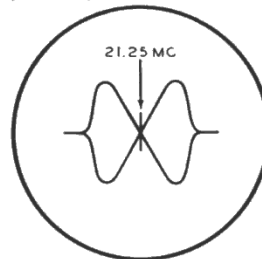


FIG. 2



FIG. 3

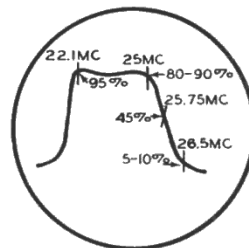


FIG. 4

ALIGNMENT INSTRUCTIONS (CONT.)

RF ALIGNMENT

Connect a VTVM at the junction of R24 and C25 and adjust a 250K Ω potentiometer, as used in Video IF Alignment, for -3.5 volts reading. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms. Set the fine tuning control to the mid-position of its range. Replace the local oscillator tube V3 in its socket. Remove the 1st Video IF tube (V4) from its socket.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
13. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	Not used	215.75MC (Unmod.)	13	Use VTVM. DC Probe to Point $\text{\textcircled{E}}$. Common to chassis.	A17	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
14. "	"	177MC (10MC SWP)	175.25MC 179.75MC	7	Vert. Amp. to Point $\text{\textcircled{E}}$. Low side to chassis.	A18, A19, A20, A21	Adjust for flat topped response curve similar to figure 5 with markers above 70%.
15. "	"	207MC (10MC SWP)	205.25MC 209.75MC	12	"	A18	Adjust for maximum amplitude and minimum slope of top part of curve.
16. "	"	177MC (10MC SWP) 183MC (10MC SWP) 189MC (10MC SWP) 195MC (10MC SWP) 201MC (10MC SWP) 207MC (10MC SWP) 213MC (10MC SWP)	175.25MC 181.25MC 185.75MC 187.25MC 191.75MC 193.25MC 197.75MC 199.25MC 203.75MC 205.25MC 209.75MC 211.25MC 215.75MC	7 8 9 10 11 12 13	"		Check for response curve similar to figure 5. If markers are below 70% on any channel make a slight readjustment of A18, A19, A20, A21 with channel selector on that channel. Recheck other high band channels for optimum response.
17. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	85MC (10MC SWP)	83.25MC 87.75MC	6	Vert. Amp. to Point $\text{\textcircled{E}}$. Low side to chassis.	A22, A23, A24, A25	Adjust for flat topped response curve similar to figure 5 with markers above 70%.
18. "	"	79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	5 4 3 2	"		Check for response curve similar to figure 5. If markers fall below 70% on any channel make a slight readjustment of A22, A23, A24 and A25 with channel selector on that channel. Recheck other low band channels for optimum results.

OSCILLATOR ALIGNMENT

Disconnect the 250K Ω potentiometer and replace the AGC amplifier tube (V15) and the 1st Video IF tube (V4). The signal generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
19. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	215.75MC (Unmod.)	13	DC Probe to Point $\text{\textcircled{E}}$. Low side to chassis.	A17	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
		209.75MC	12		A26	
		203.75MC	11		A27	
		197.75MC	10		A28	
		191.75MC	9		A29	
		185.75MC	8		A30	
		179.75MC	7		A31	
		87.75MC	6		A32	
		81.75MC	5		A33	
		71.75MC	4		A34	
		65.75MC	3		A35	
		59.75MC	2		A36	

4.5MC TRAP ADJUSTMENT

Connect a jumper across terminals of L24 trap. Tune in a strong station signal and if a 4.5MC beat is seen in the picture adjust trap coil A37 until beat disappears.

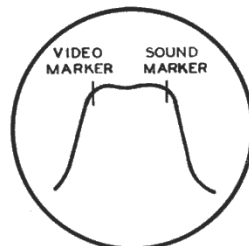


FIG. 5

RCA VICTOR MODELS T164, T165, T166, T167, T168, 6T72 (Ch. KCS40, A, B)

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	- .6VDC	0V.	0V.	6.3VAC	85VDC	110VDC	0V.		
V 2	6AG5	-1.2VDC	0V.	0V.	6.3VAC	105VDC	105VDC	0V.		
V 3	6J6	55VDC	55VDC	6.3VAC	0V.	§-3.5VDC	§-3.5VDC	.2VDC		
V 4	6BA6	.1VDC	0V.	0V.	6.3VAC	95VDC	100VDC	1.7VDC		
V 5	6AG5	0V.	.8VDC	6.3VAC	0V.	100VDC	100VDC	.8VDC		
V 6	6BA6	-.6VDC	0V.	0V.	6.3VAC	65VDC	100VDC	.7VDC		
V 7	6AG5	0V.	1VDC	6.3VAC	0V.	180VDC	115VDC	1VDC		
V 8	6AL5	-135VDC	-65VDC	0V.	6.3VAC	-65VDC	0V.	-135VDC		
V 9	12AU7	-32VDC	-135VDC	-130VDC	6.3VAC	6.3VAC	105VDC	-19VDC	-17VDC	0V.
V 10	6AU6	-.4VDC	0V.	0V.	6.3VAC	115VDC	115VDC	.5VDC		
V 11	6AU6	-.4VDC	0V.	0V.	6.3VAC	115VDC	65VDC	0V.		
V 12	6AL5	0V.	-.2VDC	1.2VAC	6.3VAC	-.1VDC	0V.	-.2VDC		
V 13	6AV6	-.5VDC	0V.	0V.	6.3VAC	0V.	0V.	80VDC		
V 14	6K6GT	0V.	0V.	125VDC	115VDC	-125VDC	0V.	6.3VAC	-110VDC	
V 15	6SN7GT	-140VDC	-20VDC	-135VDC	-80VDC	-65VDC	-65VDC	6.3VAC	0V.	
V 16	6SN7GT	-27VDC	75VDC	-25VDC	-30VDC	75VDC	-24VDC	6.3VAC	0V.	
V 17	6SN7GT	-1.3VDC	170VDC	0V.	-65VDC	225VDC	-60VDC	6.3VAC	0V.	
V 18	6K6GT	0V.	0V.	210VDC	210VDC	-100VDC	-100VDC	6.3VAC	90VDC	
V 19	6SN7GT	-120VDC	2VDC	-150VDC	-185VDC	65VDC	-85VDC	6.3VAC	-100VDC	
V 20	6BG6G	0V.	0V.	-120VDC	0V.	-140VDC	-120VDC	6.3VAC	140VDC	TOP CAP *
V 21	6W4GT	0V.	0V.	250VDC	0V.	220VDC	0V.	†	†	
V 22	1B3GT									
V 23	5U4G	0V.	250VDC	0V.	235VAC	0V.	235VAC	0V.	250VDC	
V 24	16GP4	0V.	-1.3VDC	225VDC	100VDC	6.3VAC				

* DO NOT MEASURE.

TV - PHONO SWITCH IN "TV" POSITION.
FOCUS CONTROL SET FULLY COUNTERCLOCKWISE.

† TAKEN WITH VACUUM TUBE VOLTMETER.

‡ 6.3VAC MEASURED ACROSS FILAMENTS.

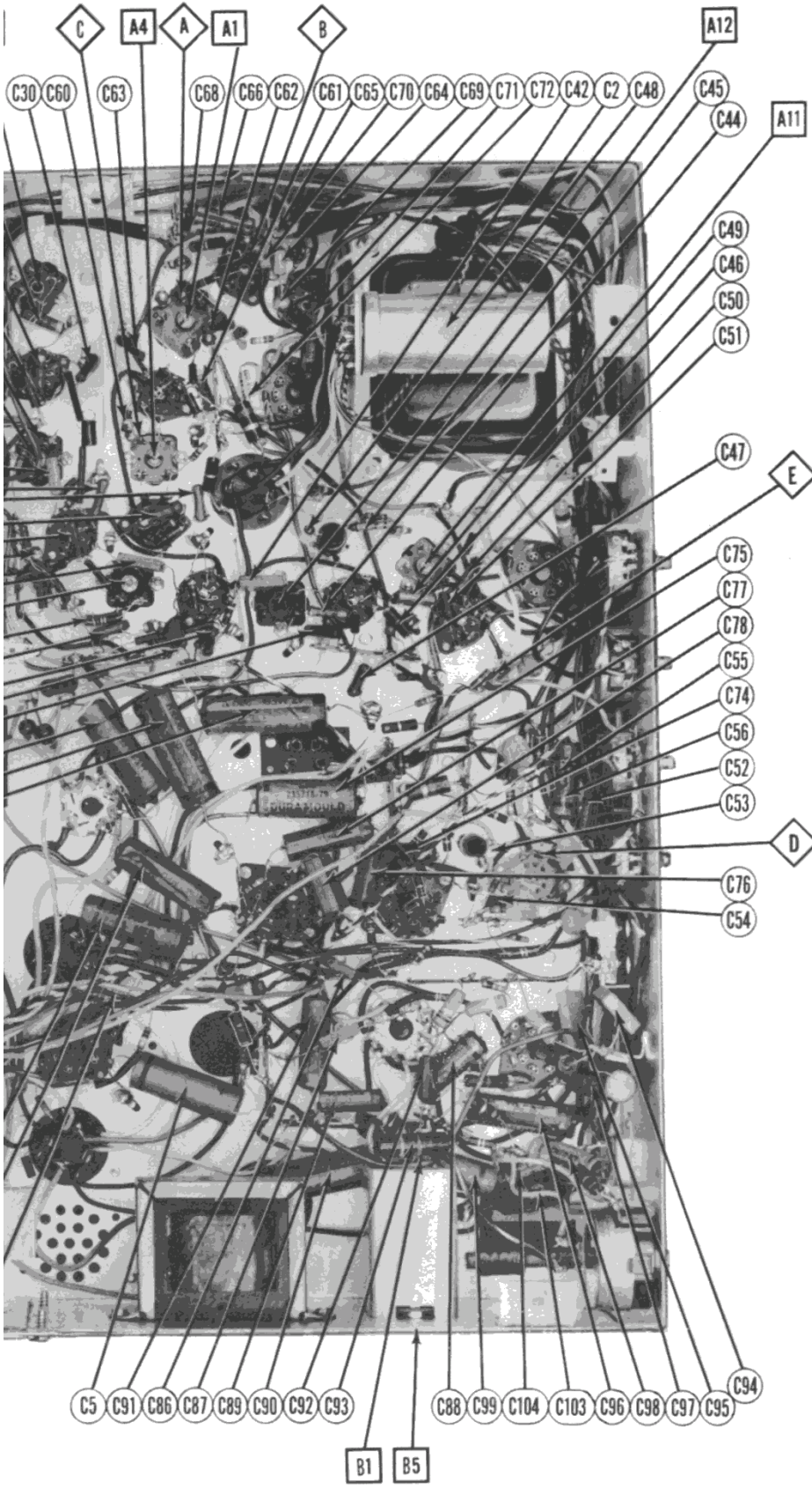
* DO NOT MEASURE.

RESISTANCE READINGS

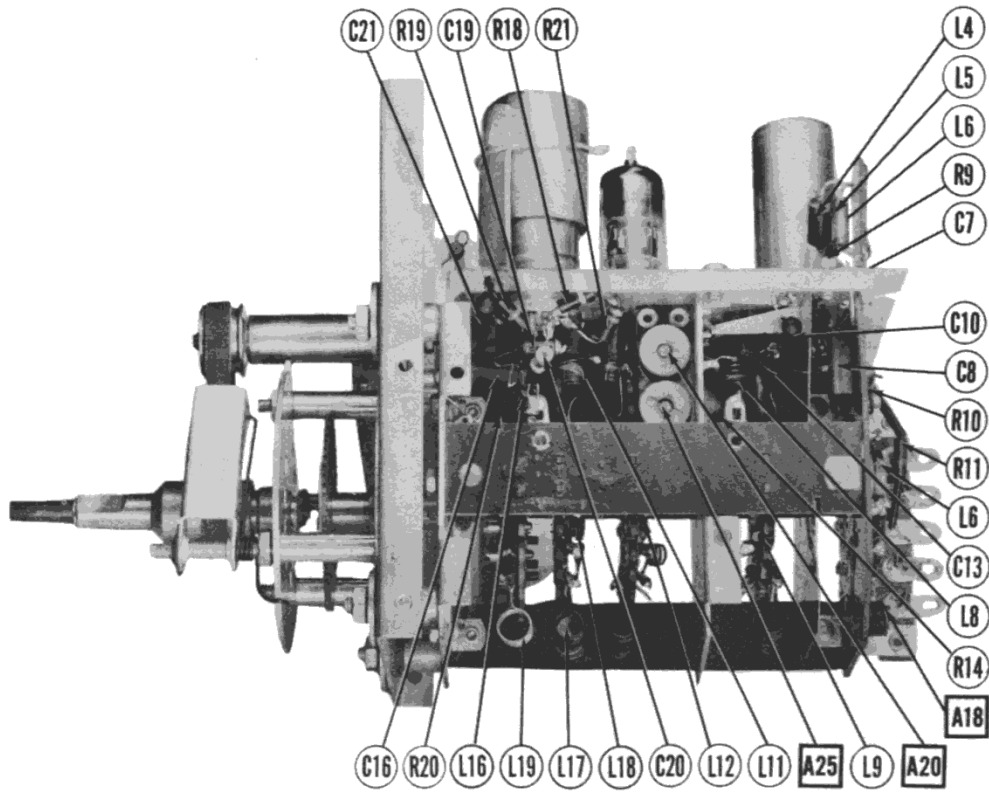
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	17KΩ	0Ω	0Ω	.1Ω	14.7KΩ	11.6KΩ	0Ω		
V 2	6AG5	100KΩ	0Ω	0Ω	.1Ω	12.6KΩ	12.6KΩ	0Ω		
V 3	6J6	112KΩ	112KΩ	.1Ω	0Ω	100KΩ	100KΩ	47Ω		
V 4	6BA6	47KΩ	0Ω	0Ω	.1Ω	12.7KΩ	12.7KΩ	150Ω		
V 5	6AG5	10KΩ	68Ω	.1Ω	0Ω	12.6KΩ	12.6KΩ	68Ω		
V 6	6BA6	6.8KΩ	0Ω	0Ω	.1Ω	16.3KΩ	12.4KΩ	47Ω		
V 7	6AG5	.1Ω	150Ω	.1Ω	0Ω	19.3KΩ	12.3KΩ	150Ω		
V 8	6AL5	1.4KΩ	3.9 Meg.	0Ω	.1Ω	700Ω	0Ω	7KΩ		
V 9	12AU7	112KΩ	7KΩ	1.6KΩ	.1Ω	11KΩ	11KΩ	5KΩ	6KΩ	0Ω
V 10	6AU6	470KΩ	0Ω	0Ω	.1Ω	12.5KΩ	12.5KΩ	82Ω		
V 11	6AU6	22KΩ	0Ω	0Ω	.1Ω	12.3KΩ	16KΩ	0Ω		
V 12	6AL5	0Ω	100KΩ	2.3Ω	.1Ω	200KΩ	0Ω	100KΩ		
V 13	6AV6	10 Meg.	0Ω	0Ω	.1Ω	0Ω	0Ω	1330KΩ		
V 14	6K6GT	Inf.	0Ω	13.6KΩ	11.3KΩ	470KΩ	Inf.	.1Ω	2.7KΩ	
V 15	6SN7GT	1.4 Meg.	1370KΩ	1.4KΩ	310KΩ	45KΩ	700Ω	.1Ω	0Ω	
V 16	6SN7GT	170KΩ	130KΩ	330KΩ	17KΩ	17200Ω	100KΩ	.1Ω	0Ω	
V 17	6SN7GT	1 Meg.	115KΩ	0Ω	3.9 Meg.	190Ω	7KΩ	.1Ω	0Ω	
V 18	6K6GT	0Ω	0Ω	11.5KΩ	11.5KΩ	2.2 Meg.	5.5KΩ	.1Ω	7KΩ	
V 19	6SN7GT	1.6 Meg.	190KΩ	410KΩ	480KΩ	100KΩ	1.4KΩ	.1Ω	0Ω	
V 20	6BG6G	Inf.	0Ω	1.5KΩ	Inf.	1 Meg.	1.5KΩ	.1Ω	112KΩ	TOP CAP 1140Ω
V 21	6W4GT	Inf.	Inf.	140Ω	Inf.	195Ω	Inf.	140Ω	140Ω	TOP CAP 1500Ω
V 22	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	
V 23	5U4G	Inf.	5.5KΩ	Inf.	1.4KΩ	Inf.	1.4KΩ	Inf.	5.5KΩ	
V 24	16GP4	0Ω	1 Meg.	190KΩ	120KΩ	.1Ω				

TV - PHONO SWITCH IN "TV" POSITION.
FOCUS CONTROL SET FULLY COUNTERCLOCKWISE.
† MEASURED FROM PIN 8 OF V23.

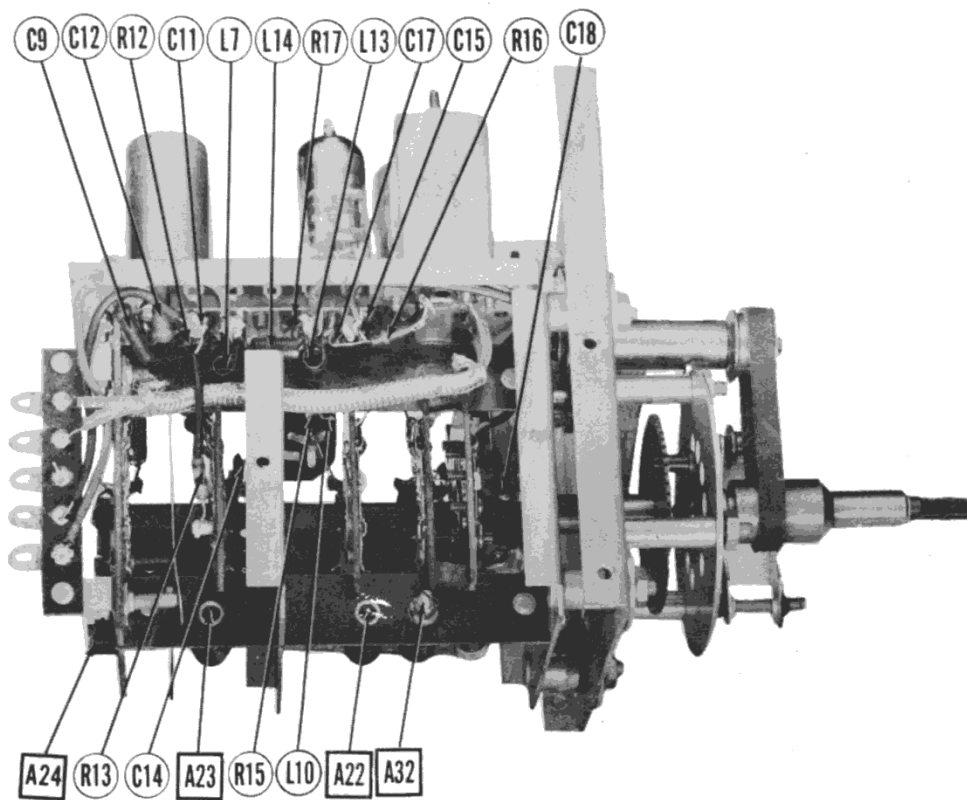
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
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.



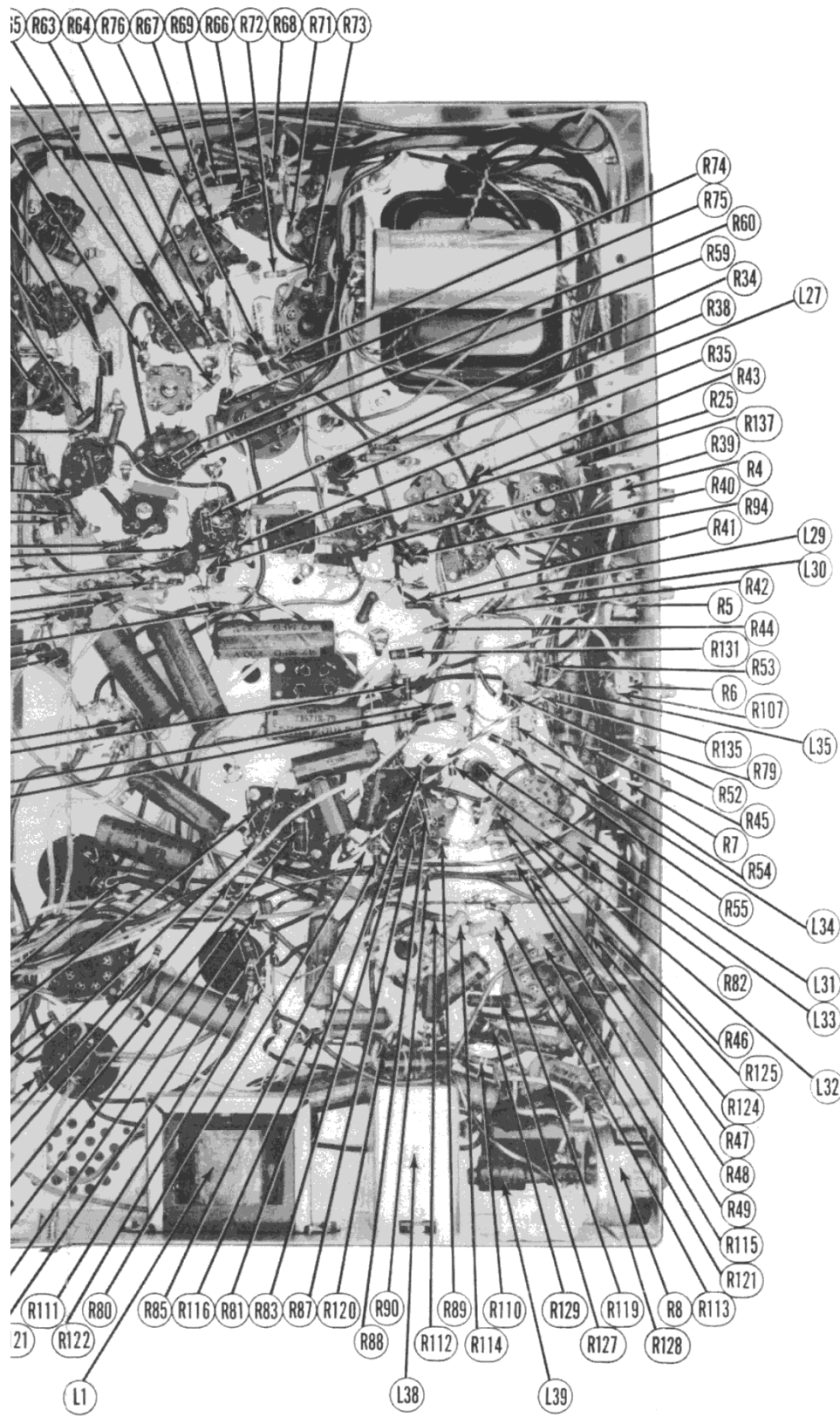
TELEVISION SET AND ALIGNMENT IDENTIFICATION



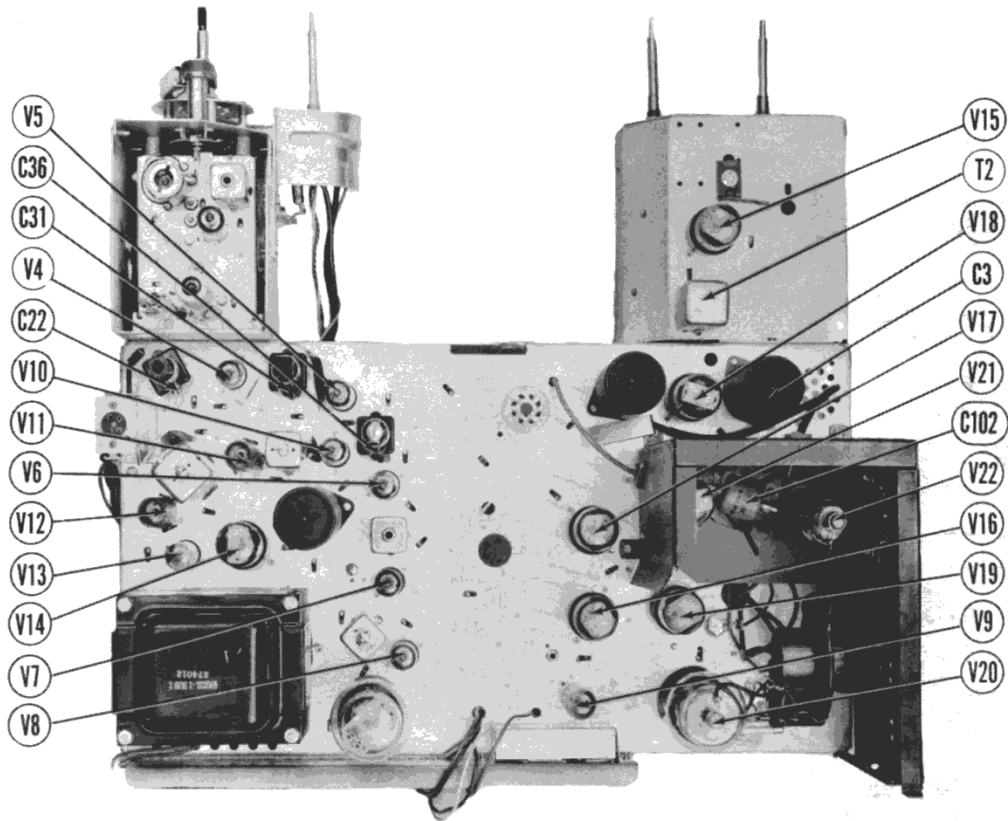
RF TUNER-RIGHT SIDE



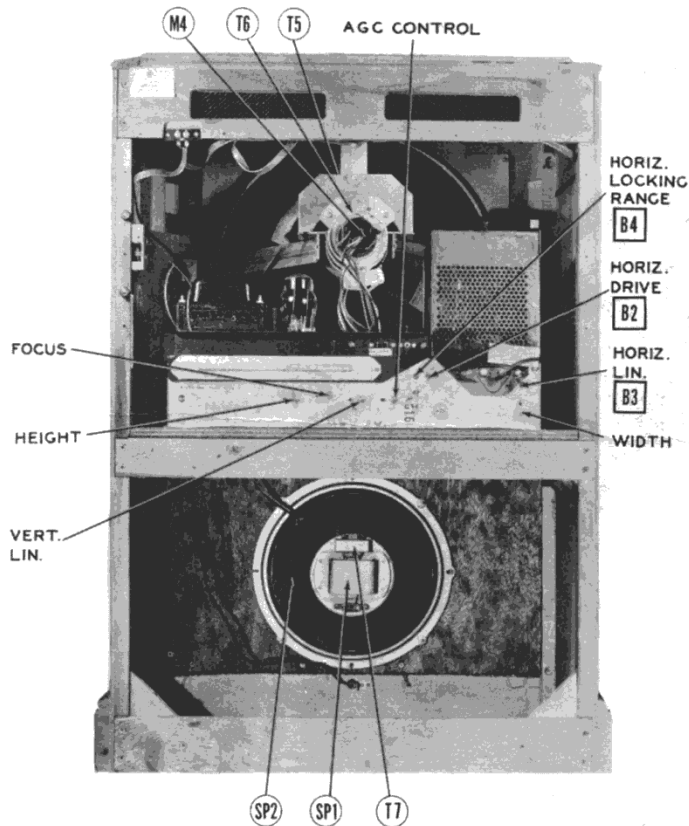
RF TUNER-LEFT SIDE



RESISTOR AND INDUCTOR IDENTIFICATION



CHASSIS-TOP VIEW



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

HORIZONTAL OSCILLATOR ALIGNMENT CHECK

Tune in a test pattern and turn the horizontal hold control fully counter-clockwise. The picture should remain in synchronization. Momentarily remove signal by switching to another channel and back to the original channel. The picture will usually remain in synchronization. If the picture did not remain in "sync", the number of blanking bars appearing on the screen will gradually reduce until only 2 bars are seen sloping downward to the left. A slight additional clockwise rotation of the hold control will pull the picture into "sync". The picture should remain in synchronization for approximately 180° additional rotation of the hold control.

Turn the hold control fully clockwise and the picture will be out of "sync" with one diagonal bar appearing. If the receiver does not function in this manner, a horizontal sweep circuit adjustment will be required.

HORIZONTAL FREQUENCY ADJUSTMENT

Connect a short between terminals C and D of L38.

Turn the set on and tune in a TV station preferably a test pattern.

Turn the horizontal hold control fully clockwise and adjust the horizontal frequency slug (B1) until the blanking signal appears as a single vertical line in the raster.

Turn the hold control 1/4 turn counter-clockwise to sync the picture.

Adjust the horizontal drive trimmer (B2) clockwise as far as possible without crowding the right side of the picture. Adjust the width control until the picture is of proper width.

Adjust the horizontal linearity slug (B3) until the picture is symmetrical from left to right. A slight readjustment of B2 may be necessary for optimum results. Turn the hold control maximum counter-clockwise and momentarily remove the signal by switching to another channel and back again. Turn the hold control slowly clockwise and note the least number of bars present just before the picture pulls into synchronization. Adjust the horizontal lock trimmer (B4) until 7 to 9 bars appear just before pull in.

HORIZONTAL WAVEFORM ADJUSTMENT

Remove the short from terminals C and D of L38.

Turn the horizontal hold control fully clockwise and adjust the horizontal waveform slug (B5) until the blanking signal appears.

Connect the low capacity probe of an oscilloscope to terminal C of L38 and chassis. Adjust B5 and B1 alternately until the broad and narrow peaks are of equal amplitude as shown in figure 6. If necessary during this adjustment turn the hold control to keep picture in "sync".

Turn the hold control fully counter-clockwise and momentarily remove signal. Adjust B4 until 2 bars are present just before pull in. Turn the horizontal hold control fully clockwise and adjust B1 until blanking bars appear as a single vertical line. Turn the hold control 1/4 turn counter-clockwise to synchronize picture.

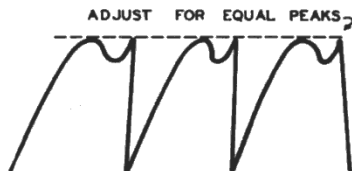


FIG. 6

AGC ADJUSTMENTS

SHOP ADJUSTMENT

Connect the vertical amplifier of an oscilloscope to pin 1 of 12AU7 (V9) and chassis.

Turn the set on and tune in a TV station.

Turn the contrast control fully clockwise and adjust the AGC threshold control for maximum response without clipping the sync pulses.

FIELD ADJUSTMENT

Tune in a TV station and sync the picture. Turn the contrast control fully clockwise and the brightness control counter-clockwise until the vertical retrace lines are just visible. Turn the AGC control fully clockwise. The top 1/2 inch of the picture may be bent slightly, which is normal. Turn the AGC control counter-clockwise until there is a change in the bend of the top 1/2 inch of the picture. Turn the AGC control clockwise to remove the bend. If there is a weak signal present turn the AGC control counter-clockwise until snow in the picture is more pronounced and then turn control clockwise for best signal to noise ratio.

DISASSEMBLY INSTRUCTIONS

1. Remove eight push on type control knobs.
2. Remove ten wood screws from the rear cover. Remove rear cover.
3. Remove antenna leads from the antenna terminal strip.
4. Remove antenna terminal strip.
5. Remove jewel light located at bottom of cabinet.
6. Disconnect speaker.
7. Remove interlock switch.
8. Disconnect yoke socket.
9. Disconnect socket located at base of picture tube.
10. Remove six 3/8" hex head bolts holding chassis to cabinet. Remove chassis.
11. Remove four 5/16" hex nuts holding speaker in place. Remove speaker.

RCA VICTOR MODELS T164, T165, T166,
T167, T168, 6T72 (Ch. KCS40, A, B)

PARTS LIST AND D

TUBES (SYLVANIA or Equivalent)

CAPACITORS

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		RCA PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6AG5	6AG5	7BD	
V2	Mixer	6AG5	6AG5	7BD	
V3	Oscillator	6J6	6J6	7BF	
V4	1st Video IF	6BA6	6BA6	7BK	
V5	2nd Video IF	6AG5	6AG5	7BD	
V6	3rd Video IF	6BA6	6BA6	7BK	
V7	4th Video IF	6AG5	6AG5	7BD	
V8	Video Det. -Sync. Limiter	6AL5	6AL5	6BT	
V9	Video Amp.	12AU7	12AU7	9A	
V10	1st Sound IF	6AU6	6AU6	7BK	
V11	2nd Sound IF	6AU6	6AU6	7BK	
V12	Discr.	6AL5	6AL5	7BD	
V13	AF Amp.	6AV6	6AV6	7BT	
V14	Audio Output	6K6GT	6K6GT	7S	
V15	AGC Amp. -Vert. Osc. Disch.	6SN7GT	6SN7GT	8BD	
V16	AGC Rect. -1st Sync. Amp.	6SN7GT	6SN7GT	8BD	
V17	2nd Sync. Amp. - Sync. Sep.	6SN7GT	6SN7GT	8BD	
V18	Vert. Output	6K6GT	6K6GT	7S	
V19	Hor. AFC-Hor. Osc.	6SN7GT	6SN7GT	8BD	
V20	Hor. Output	6BG6G	6BG6G	5BT	
V21	Damper	6W4GT	6W4GT	4CG	
V22	HV Rect.	1B3GT	1B3GT	3C	
V23	LV Rect.	5U4G	5U4G	5T	
V24	Picture Tube	16GP4	16GP4	12D	

ITEM No.	RATING		REPLACEMENT DATA			
	CAP.	VOLT	RCA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORN DUBIL PART
C62	1500		71501	SI1500	D6-152	1W5D1
C63	1500		71501	SI1500	D6-152	1W5D1
C64	270		73922	SI270	D6-271	5W5T
C65	270		73922	SI270	D6-271	5W5T
C66	.0022	600	73595	P688-0022	D6-222	PTE6
C67	.0022	600	73595	P688-0022	D6-222	PTE6
C68	.01	400	73561	P488-01	D6-103	PTE4
C69	.0047	600	73920	P688-0047	D6-472	PTE6
C70	470	500	39844	1468-0005	D6-471	5W5T
C71	.01	1000	73565	P1088-01	D6-103	PTE4
C72	.0022	600	73595	P688-0022	D6-222	PTE6
C73	.47	200	73787	P288-47		GT2P
C74	.01	400	73561	P488-01	D6-103	PTE4
C75	.22	200	73794	P488-22		GT2P
C76	.001	600	73801	P688-001	D6-102	PTE6
C77	.047	600	73592	P688-047	DF-503	PTE6
C78	100	500	75064	1468-0001	D6-101	5W5T
C79	.0022	600	73595	P688-0022	D6-222	PTE6
C80	.0047	600	73920	P688-0047	D6-472	PTE6
C81	.0047	600	73920	P688-0047	D6-472	PTE6
C82	.01	600	73594	P1088-01	D6-103	PTE6
C83	.047	1000	73597	P1088-047		GT16S
C84	.22	600	74957	684-25		GT6P
C85	.022	400	73562	P488-022		PTE4
C86	82	1000	73090			PTE4
C87	82	1000	73090			PTE4
C88	.047	400	73553	P488-047	D6-503	PTE4
C89	.022	400	73562	P288-47	DF-203	PTE4
C90	.47	200	73787	P288-47		GT2P
C91	.047	600	73592	P688-047	DF-503	PTE6
C92	180	1000	73102			PTE6
C93	.01	600	73594	P688-01		IR5D1
C94	1000	500	73801	1464-001	D6-102	5W5T
C95	560	500	74947	1468-0005	D6-561	GT16S
C96	.047	1000	73597	P1088-047		GT4P
C97	.22	400	73794	P488-22		PTE1E
C98	.018	1000	74727	P1088-015		PTE1E
C99	.022	1000	73810	P1088-022		GT16S
C100	.047	1000	73597	P1088-047		GT16S
C101	.047	1000	73597	P1088-047		GT16S
C102	500	20000	74947	HV20A	TV1-502	
C103	.01	600	73565	P688-01	D6-103	PTE6
C104	.01	600	73565	P688-01	D6-103	PTE6

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.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	40	450	73582	AFH82J1E6		UPT4145-820		TVL-3761	Filter
B	10	450							Output Plate Dec.
C	80	200							Filter
C2A	40	450	73583	AFH8J1810D		UPT445-9515		TVL-3708	Filter
B	90	150							Filter
C	50	150							Vert. Output Cath.
C3A	60	450	73581	AFH122J4D		UPT61145-215		TVL-4753	Filter
B	10	450							Vert. Output Dec.
C	10	450							Decoupling
D	20	150							Output Cath. Byp.
C4A	40	450	71432	AFH882J		UPT44145		TVL-3785	Filter
B	40	450							Filter
C	10	450							Vert. Output Dec.
C5	5	450	28417	PR8450/4		BR445		TVA-1702	Decoupling
C6	2				TCZ-18		NPOK-2		Fixed Trimmer
C7	18		54207		D6-271	5W5T25	NPOK-18		Fixed Trimmer
C8	270	1000	73091	1468-00025	D6-152		GP2L-270	19C31	RF Coupling
C9	1500		71501	SI1500	D6-152		GP2L-0015	19C20	AGC Filter
C10	1500		71501	SI1500	D6-152		GP2L-0015	19C20	RF Screen Bypass
C11	1500		71501	SI1500	D6-152		GP2L-0015	19C20	RF Fil. Bypass
C12	1500		71501	SI1500	D6-152		GP2L-0015	19C20	RF Bypass
C13	1500		71501	SI1500	D6-152		GP2L-0015	19C20	RF Coupling
C14	5000		73473	BPD-005	DD-502		811-005	29C1	RF Coupling
C15	1500		71501	SI1500	D6-152		GP2L-0015	19C20	Mixer Decoupling
C16	1500		71501	SI1500	D6-152		GP2L-0015	19C20	Decoupling
C17	1500		71501	SI1500	D6-152		GP2L-0015	19C20	Mixer Fil. Byp.
C18	10	53511		SI10NPO	TCZ-10		NPOK-10	19C3	Osc. Decoupling
C19	5	74035		SI5NPO	TCZ-4.7		NPOK-5		Osc. Feedback
C20	5	74035		SI5NPO	TCZ-4.7		NPOK-5		Osc. Feedback
C21	1500		71501	SI1500	D6-152		GP2L-0015	19C20	Osc. Fil. Bypass
C22	82				TCZ-82		NPOM-82		Fixed Trimmer
C23	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	AGC Filter
C24	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C25	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	AGC Filter
C26	.47	200	73787	P288-47	D6-152		GT2P5	TM-5-2	AGC Filter
C27	.47	200	73787	P288-47	D6-152		GT2P5	TM-5-2	AGC Filter
C28	1500		71501	SI1500	D6-152		GP2L-0015	29C8	RF Coupling
C29	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	1st V. IF Dec.
C30	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	1st V. IF Fil.
C31	47				TCZ-47		NPOL-47	29C14	Fixed Trimmer
C32	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C33	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C34	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	2nd V. IF Dec.
C35	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	2nd V. IF Fil.
C36	47				TCZ-47		NPOL-47	29C14	Fixed Trimmer
C37	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	1st S. IF Grid Filter
C38	33	1000	74105	SI33NPO	TCZ-33	5R5Q3	NPOL-33	29C13	IF Coupling
C39	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	AGC Filter
C40	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C41	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	3rd V. IF Dec.
C42	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C43	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C44	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	4th V. IF Screen
C45	82		64062	SI82	TCZ-82	5W5T1	GPIK-82	29C11	4th V. IF Cath.
C46	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	4th V. IF Plate Dec.
C47	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C48	75			SI75NPO	TCZ-75		NPOM-75		Fixed Trimmer
C49	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C50	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	RF Bypass
C51	10	500	39604	1468-00001	D6-100	5W5Q1	GPIK-10	MS-41	V. Diode Filter
C52	.0015	600	73802	P688-0015	D6-152	PTE6D2	GP2L-0015	TM-22	1st V. Amp. Cath. *
C53	47				TCZ-47		NPOL-47	29C14	Fixed Trimmer
C54	270		73922	SI270	D6-271	5W5T25	GP2K-270	19C31	Video Coupling
C55	120		73921	SI120	D6-121	5W5T15	GP2K-120	19C29	Video Coupling
C56	.047	400	73553	P488-047	DF-503	PTE455		TM-15-4	Video Coupling
C57	.1	600	73557	P688-1	DF-104	PTE6P1		TM-1	Pic. Tube Cath. Byp.
C58	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	1st S. IF Dec.
C59	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	1st S. IF Cath.
C60	100		39396	SI100	D6-101	5W5T1	GPIK-100	19C11	Limiter Grid Filter
C61	1500		71501	SI1500	D6-152	1W5D15	GP2L-0015	29C8	Limiter Screen

* Not used in all models.

CONTROL

ITEM No.	RATING		REPLACEMENT DATA				
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	CLAROSTAT PART No.	C I	
R1A	500KΩ	1/2	74048	Concentrikrit B13-133 * B13-137X * E-187 * 76-1 *		RTV-11	SI
B	1 Meg.						
C	Shaft End						
D	Switch						
R2A	50KΩ	1/2	74047	Concentrikrit B11-123 * B17-116 * E-187 *		RTV-12	SI
B	10KΩ						
C	Shaft End						
R3A	1 Meg.	1/2	72734	Concentrikrit B11-137 * B11-123 * E-187 *		RTV-8	SI
B	50KΩ						
C	Shaft End						
R4A	2.5 Meg.	1/2	71440	Q11-239 Not Req.		AM-84-S	A
B	Shaft						
R5	1300Ω	2	74597			FKS-1/4	A
R6A	5000Ω	2	71441	Q11-114		AM-19-S	A
B	Shaft			Not Req.		FKS-1/4	A
R7A	200KΩ	1/2	74475	Not Req.		AG-52-S	A
B	Shaft			Not Req.		FKS-1/4	A
R8	250Ω	4	74945	Not Req.		RTV-60	N

* Additional parts to be used with "Concentrikrit".
Note 1. Chassis KC540B uses a dual control with channel light switch

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	ALL RE
R9	390Ω	1/2		BTS-390	Antenn
R10	10KΩ 20%	1/2		BTS-150	RF An
R11	150Ω 20%	1/2		BTS-150	AGC N
R12	150Ω 20%	1/2		BTS-150	RF An

5T AND DESCRIPTIONS

CAPACITORS (CONT.)

X No.	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
	D6-152	1W5D15	GP2L-0015	29C8	Limiters Plate Dec.
	D6-152	1W5D15	GP2L-0015	29C8	Limiters Fil. Byp.
	D6-271	5W5T25	GP2K-270	19C31	RF Bypass
	D6-271	5W5T25	GP2K-270	19C31	Discr. Fil. Byp.
2	D6-222	PTE6D2	GP2M-0022	TM-22	Audio Coupling
	D6-222	PTE6D2	GP2M-0022	TM-22	Tone Comp.
	D6-103	PTE4S1	811-01	TM-11-4	Audio Coupling
	D6-472	PTE6D5	GP2M-0047	TM-25	Tone Comp.
	D6-471	5W5T5	GP2K-470	1FM-35	Tone Comp.
	D6-103	PTE4S1	811-01	TM-11-4	Audio Coupling
2	D6-222	PTE6D2	GP2M-0022	TM-22	Output Filter Byp.
		GT2P5		TM-5-2	AGC Filter
	D6-103	PTE4S1	811-01	TM-11-4	AGC Rect. Cath.
		GT2P25		TM-2-2	1st Sync. Amp. Cath.
	D6-102	PTE6D1	GP2L-001	TM-21	Sync. Coupling
	DF-503	PTE6S5		TM-15	Sync. Coupling
	D6-101	5W5T1	GP1K-100	1FM-31	Sync. Coupling
2	D6-222	PTE6D5	GP2M-0022	TM-22	Integrator Net.
	D6-472	PTE6D5	GP2M-0047	TM-25	Integrator Net.
7	D6-472	PTE6D5	GP2M-0047	TM-25	Integrator Net.
	D6-103	PTE6S1	811-01	TM-11	Vert. Osc. Grid
		GT16S5		TR-15	Vert. Discharge
		GT6P25		TM-2	Vert. Sweep Coupling
		PTE4S2		TM-12-4	Fixed Trimmer
					Hor. Sync. Coupling
	D6-503	PTE4S5		TM-15-4	Hor. Feedback
	DF-203	PTE4S2		TM-12-4	AFC Filter
		GT2P5		TM-5-2	AFC Filter
	DF-503	PTE6S5		TM-15	Hor. AFC Plate
					Hor. Osc. Grid
		PTE6S1		TM-11	Fixed Trimmer
	D6-102	1R5D1	GP2L-001	MS-21	Hor. Discharge
	D6-561	5W5T5	GP2K-560	1FM-35	Hor. Sweep Coup.
		GT16S5		TR-15	Hor. Output Screen
		GT4P25		TM-2-4	Hor. Output Cath.
		PTE16S15		MB-115	Damper Filter
		PTE16S2		MB-12	Damper Filter
		GT16S5		TR-15	RF Bypass
		GT16S5		TR-15	Fixed Trimmer *
	TV1-502				HV Filter
	D6-103	PTE6S1	811-01	TM-11	Line Filter
	D6-103	PTE6S1	811-01	TM-11	Line Filter

CONTROLS

No.	REPLACEMENT DATA		INSTALLATION NOTES
	CLAROSTAT PART No.	CENTRALAB PART No.	
rikkit X *	RTV-11	SBBT-507-S	Tone control-front Volume control-rear-tapped at 200KΩ Attach per instr. in "Concentrikrit".
			RTV-12
rikkit	RTV-8	SBB-515	
			rikkit
FKS-1/4	AK-1	Attach to R4A per instructions	
	RTV-14	VK-129	Focus control-Wire Wound
	AM-19-S	AN-10	Vert. linearity control
	FKS-1/4	AK-1	Attach to R6A per instructions
	AG-52-S	B-46	AGC control
	FKS-1/4	Not Req.	Attach to R7A per instructions
	RTV-60		Width control-Wire Wound

kit".
with channel light switch part #75452.

RESISTORS

IRC PART No.	IDENTIFICATION CODES	
	ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.	
BTS-390	Antenna Loading-See Note 2	
BTS-150	RF Amp. Grid	
BTS-150	AGC Network	
BTS-150	RF Amp. Screen	
BTS-2700	RF Amp. Plate	
	Series Test Point	
	Mixer Grid	
	Mixer Decoupling	
BTS-150	Decoupling	
BTS-1000	Osc. Grid	
	Osc. Plate	
	Osc. Cathode	
BTS-150	Decoupling	
BTS-1000	AGC Network	
	AGC Network	
	AGC Network	
BTS-150-5%	1st Video IF Amp. Cathode	
BTS-1000	1st Video IF Amp. Decoupling	
BTS-150	Decoupling	
	2nd Video IF Amp. Grid	
	2nd Video IF Amp. Cathode	
BTS-1000	2nd Video IF Amp. Decoupling	
	1st Video IF Amp. Grid	
BTS-150	Decoupling	
	3rd Video IF Amp. Cathode	

RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R35	3900Ω	5%		BTS-3900-5%	3rd Video IF Amp. Plate
R36	1000Ω	20%		BTS-1000	3rd Video IF Amp. Decoupling
R37	150Ω	20%		BTS-150	Decoupling
R38	150Ω			BTS-150	4th Video IF Cathode
R39	1000Ω	20%		BTS-1000	4th Video IF Screen
R40	8200Ω	5%		BTS-1000	4th Video IF Plate
R41	1000Ω	20%		BTS-1000	4th Video IF Decoupling
R42	5600Ω	5%		BTS-5600-5%	Video Det. Diode Load
R43	10Ω	20%		BW-1/10	Bias Network
R44	680KΩ			BTS-680K	Video Amp. Grid
R45	220Ω			BTS-220	Video Amp. Cathode
R46	10KΩ			BTS-10K	Trap Coil Shunt
R47	2200Ω			BTS-2200	Video Amp. Plate
R48	150KΩ			BTS-150K	Video Amp. Plate
R49	5100Ω	5%		BW-1/68	Video Peaking
R50	68Ω	20%		BTA-5600	Video Amp. Cathode
R51	12KΩ			BTB-12K	Voltage Divider
R52	5600Ω			BTA-5600	Video Amp. Plate
R53	8200Ω	5%		BTA-8200-5%	Video Amp. Plate
R54	2.2 Meg.			BTS-2.2 Meg.	Voltage Divider
R55	2.2 Meg.			BTS-2.2 Meg.	Picture Tube Grid
R56	150KΩ			BTS-150K	Voltage Divider
R57	470KΩ			BTS-470K	Voltage Divider
R58	12KΩ			BTS-12K	Voltage Divider
R59	150Ω	5%		BTS-150-5%	1st Sound IF Amp. Cathode
R60	220Ω			BTS-220	1st Sound IF Amp. Cathode-See Note 2
R61	1200Ω			BTS-1200	1st Sound IF Amp. Decoupling
R62	22KΩ				2nd Sound IF Amp. Grid
R63	22KΩ	20%			2nd Sound IF Amp. Screen
R64	1000Ω	20%			2nd Sound IF Amp. Plate Decoupling
R65	47KΩ	20%		BTS-1000	Voltage Divider
R66	100KΩ	5%		BTS-100K-5%	Disc. Diode Load
R67	100KΩ	5%		BTS-100K-5%	Disc. Diode Load
R68	22KΩ	20%		BTS-22K	De-emphasis
R69	5.1Ω				Disc. Filament-Wire Wound
R70	100KΩ			BTS-100K	Tone Compensation
R71	10 Meg.	20%		BTS-10 Meg.	AF Amp. Grid
R72	330KΩ			BTS-330K	AF Amp. Plate
R73	470KΩ	20%		BTS-470K	Output Grid
R74	150Ω			BTS-150	Output Cathode
R75	1200Ω			BTA-1200	Output Cathode
R76	2700Ω			BTS-2700	Output Decoupling
R77	680KΩ			BTS-680K	AGC Network
R78	6.8 Meg.			BTS-6.8 Meg.	Voltage Divider
R79	470KΩ			BTS-470K	Voltage Divider
R80	470KΩ			BTS-470K	Voltage Divider
R81	100KΩ			BTS-100K	AGC Rect. Cathode
R82	2700Ω			BTS-2700	AGC Rect. Cathode
R83	330KΩ			BTS-330K	Voltage Divider
R84	5600Ω			BTS-5600	Voltage Divider
R85	4700Ω			BTS-4700	AGC Rect. Plate
R86	1.2 Meg.	5%		BTS-1.2 Meg.-5%	Bias Network
R87	150KΩ	20%		BTS-150K	1st Sync. Amp. Grid
R88	27KΩ			BTS-27K	1st Sync. Amp. Plate
R89	10KΩ			BTS-10K	Isolation
R90	47KΩ			BTS-47K	Phase Shifting
R91	1 Meg.			BTS-1 Meg.	2nd Sync. Amp. Grid
R92	10 Meg.			BTS-10 Meg.	Voltage Divider
R93	15KΩ			BTA-15K	2nd Sync. Amp. Plate
R94	3.9 Meg.			BTS-3.9 Meg.	Sync. Sep. Grid
R95	6800Ω			BTS-6800	Sync. Sep. Cathode
R96	22KΩ			BTS-22K	Voltage Divider
R97	27KΩ			BTS-27K	Integrator Network
R98	8200Ω			BTS-8200	Integrator Network
R99	8200Ω			BTS-8200	Integrator Network
R100	1 Meg.	20%		BTS-1 Meg.	Vert. Osc. Transformer Shunt-See Note 2
R101	3.3 Meg.	5%		BTS-3.3 Meg.-5%	Vert. Osc. Grid
R102	1.2 Meg.	5%		BTS-1.2 Meg.-5%	Vert. Osc. Grid
R103	270KΩ			BTS-270K	Vert. Osc. Plate
R104	12KΩ	5%		BTS-12K-5%	Vert. Peaking
R105	2.2 Meg.			BTS-2.2 Meg.	Vert. Output Grid
R106	1500Ω			BTA-1500	Vert. Output Cath.
R107	15KΩ			BTS-15K	Vert. Linearity Control Shunt
R108	220KΩ			BTS-220K	Vert. Peaking
R109	1000Ω	20%		BTS-1000	Vert. Output Decoupling
R110	150KΩ			BTS-150K	Filter
R111	220KΩ			BTS-220K	Voltage Divider
R112	330KΩ			BTS-330K	Hor. AFC Grid
R113	820KΩ			BTS-820K	Hor. AFC Grid
R114	82KΩ			BTA-82K	Hor. AFC Cathode
R115	330KΩ	5%		BTA-330K-5%	Hor. AFC Cathode
R116	3900Ω			BTS-3900	Hor. AFC Filter Network
R117	120KΩ			BTA-120K	Voltage Divider
R118	100KΩ			BTA-100K	Voltage Divider
R119	150KΩ	5%		BTA-150K-5%	Hor. Osc. Grid
R120	8200Ω	5%		BTS-8200-5%	Hor. Osc. Transformer Shunt
R121	82KΩ	5%		BTA-82K-5%	Hor. Osc. Plate
R122	150KΩ			BTS-150K	Hor. Feedback
R123	10KΩ			BTS-10K	Filter
R124	47Ω	20%			Parasitic Suppressor
R125	1 Meg.			BTS-1 Meg.	Hor. Output Grid
R126	100Ω			BW-2-100	Hor. Output Cathode
R127	12KΩ			BTA-12K	Hor. Output Screen
R128	1200Ω			BTA-1200	Width Control Shunt
R129	5600Ω			BTA-5600	Hor. Linearity Control Shunt
R130	1 Meg.	20%		BTS-1 Meg.	Isolation
R131	10Ω			BW-1-10	Focus Coil Shunt-Wire Wound
R132	1800Ω			BTB-1800	Voltage Divider
R133	6800Ω			BTB-6800	Bleeder
R134	6800Ω			BTB-6800	Bleeder
R135	10Ω			BW-1/10	Bias Network
R136A	1200Ω	16			Voltage Divider-Wire Wound
B	700Ω	5%	18471		Bias Network-Wire Wound
C	700Ω	5%			Bias Network-Wire Wound
R137	100KΩ	2	74955		Line Filter

Note 2. Not used in all models.

RCA VICTOR MODELS T164, T165, T166,
T167, T168, 6T72 (Ch. KCS40, A, B)

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
	T1	117VAC ② 2.1A	720VCT .250ADC	5VAC ② 3A	6.3VAC ② 1.2A SEC. 4 6.3VAC ② 9A	74949		P-3063

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.					
T2	164Ω	1400Ω	73569	A-8122	A-4000 ①	TBO-2 ①	Vert. Block Osc. Trans Hor. Output Trans.
T3	563Ω Tap ② 90Ω	0Ω	74951				
T4	465Ω	.4Ω	74950				Vert. Output Trans. Hor. Deflection Coil Vert. Deflection Coil Focus Coil
T5A	44Ω		74952				
B	3.6Ω						
T6	180Ω		74983				

① Drill one new mounting hole.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T7A	13000Ω	4.6Ω	840Ω	.7Ω	75036 ②	A-3823	A-2901	RO-16 ①	① Drill one new mounting hole. ② Used in models TC165, TC166, TC167, TC168, 6T72. ③ Used in model T164 only.
B					75034 ③				

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	RCA PART No.	JENSEN PART No.	QUAM PART No.	
	SPIA	PM	4.6Ω	75035 ②	ST-102 ④ MOD. P12-S	
B	PM		75022 ③			
SP2A	CONE DIA.	V. C. DIA.				
B	11 1/2"	1"				
	7 1/2"					

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 cps)	RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.250ADC	43Ω	1.3 Henries	73154	C-2326 ①	C-2991	Tk-3300①	① Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	RCA PART No.	MEISSNER PART No.	
		L2	Ant. Trans.	0Ω	2Ω	
L3	IF Trap	.5Ω		73476		Wound on 12MMF capacitor
L4	IF Trap	.5Ω		73476		Wound on 12MMF capacitor
L5	Ant. Shunt	.4Ω		73475		
L6	Ant. Coils	0Ω		73633		Complete with stator, rotor and C8
L7	Fil. Choke	0Ω		73477		
L8	RF Coil	0Ω		74110		Includes .4-4MMF trimmer
L9	RF Coils	0Ω		73471		Complete with stator, rotor, C13, C14 and R13.
L10	Coupling Coil	0Ω		73462		
L11	Mixer Grid	0Ω		74109		Includes two .4-4MMF trimmer
L12	Mixer Grid	0Ω		73470		Complete with stator and rotor
L13	Fil. Choke	0Ω		73477		
L14	Fil. Choke	0Ω		73477		
L15	Osc. Coil	0Ω		74108		Includes fine tuning trimmer
L16	Osc. Coils	0Ω		73468		Front section only. Complete with stator and rotor
L17	Osc. Coil	0Ω		73461		Rear section, channel 6
L18	Osc. Coils	0Ω		73469		Rear section only. Complete with stator and rotor
L19	Osc. Coil	0Ω		73874		Front section, channel 6
L20	Conv. Trans.	.4Ω	.1Ω	73448		
L21	1st Video IF	.1Ω	.4Ω	74589		
L22	Fil. Choke	0Ω		73477		
L23	2nd Video IF	.2Ω		74590		
L24	3rd Video IF					
	-Sound Take Off	.2Ω	0Ω	74591		
L25	1F Grid Chk.	2.8Ω		74170		Wound on 8200Ω resistor, 36 microhenries
L26	4th Video IF	.1Ω	.1Ω	74592		
L27	Sound Trap	.1Ω	0Ω	71778		
L28	5th Video IF	.2Ω	.1Ω	73575		
L29	Peaking	6.6Ω		74214	19-1921	180 microhenries
L30	Peaking	4.5Ω		71527	19-1920	93 microhenries
L31	4.5MC Trap	1.8Ω		73577		
L32	Peaking	8Ω		71526	19-1922	250 microhenries
L33	Peaking	8Ω		71526	19-1922	250 microhenries
L34	Peaking	6.6Ω		74214	19-1921	180 microhenries
L35	Peaking	12Ω		75252	19-1923	500 microhenries
L36	Sound IF	.1Ω	.1Ω	71424		
L37	Disc. Trans.	.1Ω	.1Ω	71427		
L38	Horiz. Osc. Trans.	120Ω	35Ω	73576		
L39	Horiz. Lin.	35Ω		71449		

PARTS LIST AND DESCRIPTIONS (Continued)

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

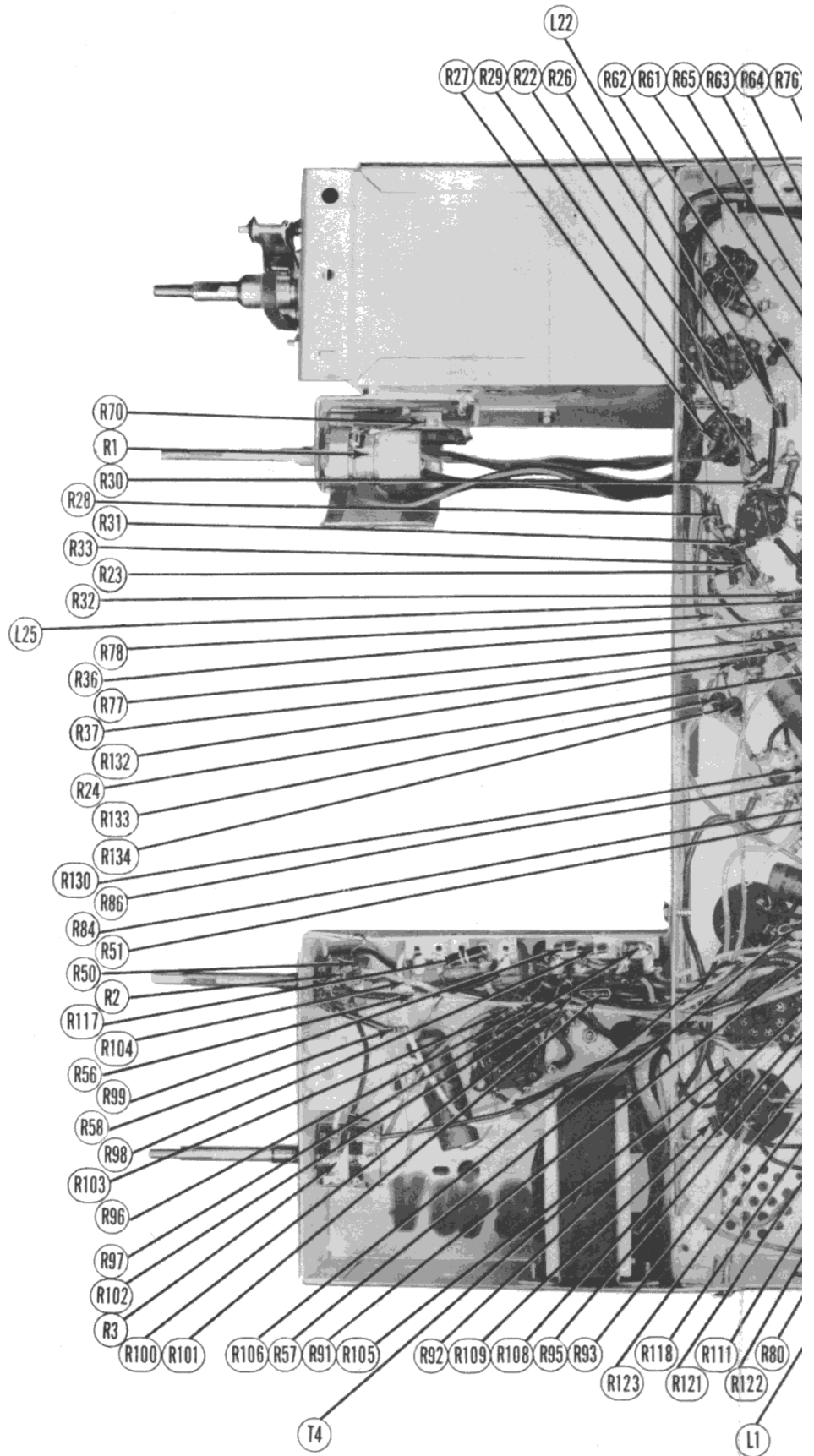
MISCELLANEOUS

ITEM No.	PART NAME	RCA PART No.	NOTES
M2	RF Tuner		
M3	Fuse	73600	.25A 250V
M4	Ion Trap	74953	
M5	Switch	46760	TV-Phono
M6	Switch	74157	Cabinet Back Interlock
	Trimmer	74946	2 Section Horiz. Drive 10-160MMF, Horiz. Range 4-70MMF
	Safety Glass	74606	Models TC165, TC166, TC167, TC168, 6T72
	Safety Glass	74975	Model T164
	Knob	74960	Channel Selector (Dark)
	Knob	74961	Channel Selector (Tan)
	Knob	74959	Fine Tuning (Dark)
	Knob	73995	Fine Tuning (Tan)
	Knob	74962	Tone, Brightness, Vertical Hold (Dark)
	Knob	73999	Tone, Brightness, Vertical Hold (Tan)
	Knob	74963	Contrast, Volume, Horiz. Hold (Dark)
	Knob	74001	Contrast, Volume, Horiz. Hold (Tan)
	Escutcheon	73642	Channel Selector (Dark)
	Escutcheon	73740	Channel Selector (Tan)
	Knob	75461	Fine Tuning Beige Model 6T72
	Knob	75462	Channel Selector Beige Model 6T72
	Knob	75463	Tone, Brightness, Vert. Hold Beige Model 6T72
	Knob	75464	Contrast, Volume, Horiz. Hold Beige Model 6T72

CRITICAL LEAD DRESS

- The ground bus from pin 2 and the center shield of V11 socket should not be shortened or rerouted.
- Do not change the dress of the filament leads or the by-pass capacitors in the picture or sound IF circuits. The filament leads between V11, V12 and V13 should be down against the chassis and away from grid or plate leads.
- If it is necessary to replace any of the 1500MMF capacitors in the picture IF circuit, the lead length must be kept as short as possible.
- Picture IF coupling capacitors C32, C38, C42 and C49 should be up and away from the chassis and should be clear of the pix IF transformer adjustments by at least 1/4 inch. If the dress of any of these capacitors is changed, the IF alignment should be rechecked.
- Dress black lead from terminal C of L28 down next to chassis.
- Leads to L30 and L29 must be as short as possible.
- Dress peaking coils L34, L33, L35 and L32 up and away from the chassis.
- Dress C64 across tube pins 5 and 6 with leads not exceeding 3/8 inch.
- Dress body of R68 as close to tube pin as possible.
- Dress C55 and C56 up and away from the chassis.
- Dress the yellow lead from the picture control away from the chassis and away from the volume-control leads. Dress the yellow lead from pin 8 of V9 away from the chassis.
- Dress the green lead from pin 2 of V9 away from the chassis.
- Dress R114, R119 and R115 up and away from the chassis.
- The leads to the volume control should be dressed down against the chassis and away from V11 and V12.
- Contact between the RF oscillator frequency adjustment screws and the oscillator coils or channel switch eyelets must be avoided.
- Dress three AC leads to R1B under clamp and away from R70.
- Dress black lead from power transformer and red lead from interlock to terminal board, on top side of four potentiometers.
- Dress all leads from V23 to V14 on power transformer side of terminal board.
- All solder joints in the high voltage section should be free of sharp edges.
- The lead side of the V22 plate cap should be turned away from the fixed high voltage shield and the lead should be dressed away from all objects.
- All leads under the horizontal plate in the high voltage section should be kept reasonably short and dressed away from the V22 corona ring.
- The red-black lead from terminal 2 of the deflection yoke should be dressed around the green and yellow leads and away from the red lead. The loose end of the red-black wire should be heavily taped.

RCA VICTOR MODELS T164, TC165, TC166, TC167, TC168, 6T72 (Ch. KCS40, A, B)



CHASSIS BOTTOM VIEW-RESISTOR