

RCA VICTOR MODELS 6T54, 6T64, 6T65, 6T71, 6T74, 6T75, 6T76 (Ch. KCS47,A)

RCA VICTOR MODEL 6T64

TRADE NAME	RCA Victor Models, 6T54, 6T64, 6T65, 6T71, 6T74, 6T75, 6T76 (Ch. KCS47,A)
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, New Jersey
TYPE SET	Television Receiver
TUBES	Twenty Two
POWER SUPPLY	110-120 Volts AC
TUNING RANGE—BROADCAST	
RATING	1.8 Amp. at 117 Volts AC

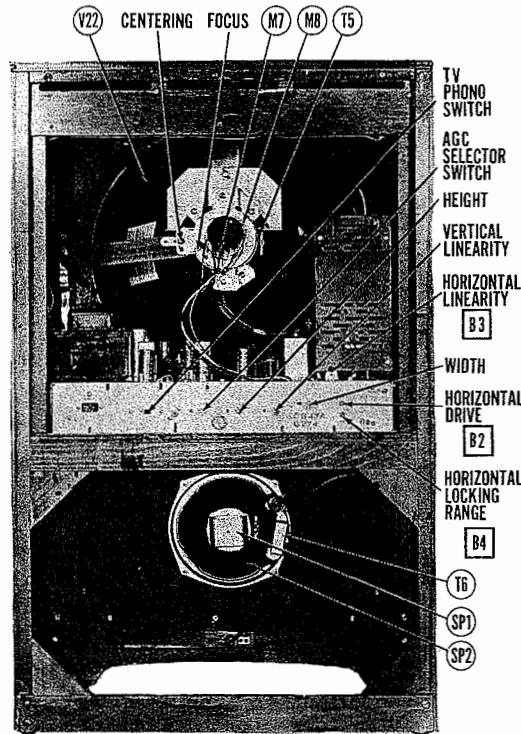
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CABINET-REAR VIEW HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a short between terminals C and D of L35.
 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 fully 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 locking trimmer (B4) until 7 to 9 bars are present just before pull in.

HORIZONTAL OSCILLATOR WAVEFORM ADJUSTMENT

Remove the short from terminals C and D of L35.
 Turn the horizontal hold control fully clockwise, and adjust the waveform adjustment (B5) until the blanking signal appears in the picture as a single vertical line.
 Turn the hold control counter-clockwise 1/4 turn to synchronize the picture.
 Connect the low capacity probe of an oscilloscope to terminal C of L35 and chassis.
 Adjust B5 until the broad and narrow peaks of the waveform are of equal height as shown in figure 7. If necessary during this adjustment turn the hold control to keep the picture in sync.
 Turn the hold control to maximum counter-clockwise and momentarily remove the signal. Adjust B4 until 2 bars are present just before pull in as the hold control is turned clockwise.
 Turn the horizontal hold control to maximum clockwise and adjust B1 until the blanking bar appears in the picture as a single vertical line. Turn the hold control 1/4 turn counter-clockwise to synchronize the picture.

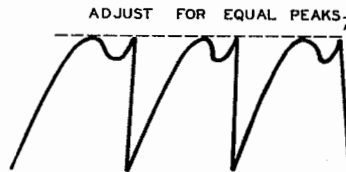


FIG. 7

AGC SWITCH ADJUSTMENT

In a strong signal area the normal position of the AGC switch is in the counter-clockwise position. If an interference of the impulse type is encountered turn the switch to the center position. In very weak signal areas turn the switch fully clockwise.

FM TRAP ADJUSTMENT

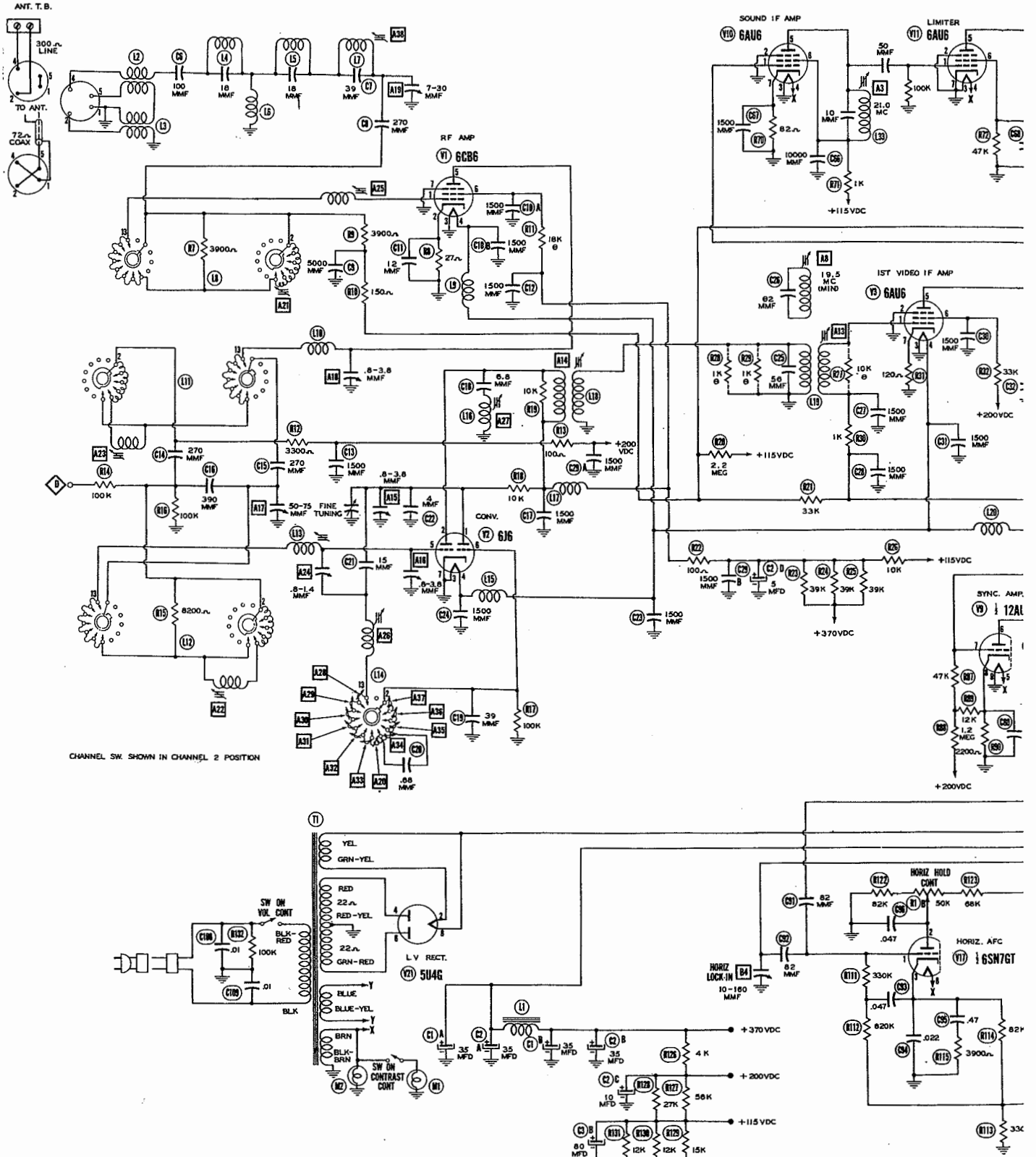
If interference is encountered from a strong FM station signal it may be eliminated by adjusting the trap coil A38.

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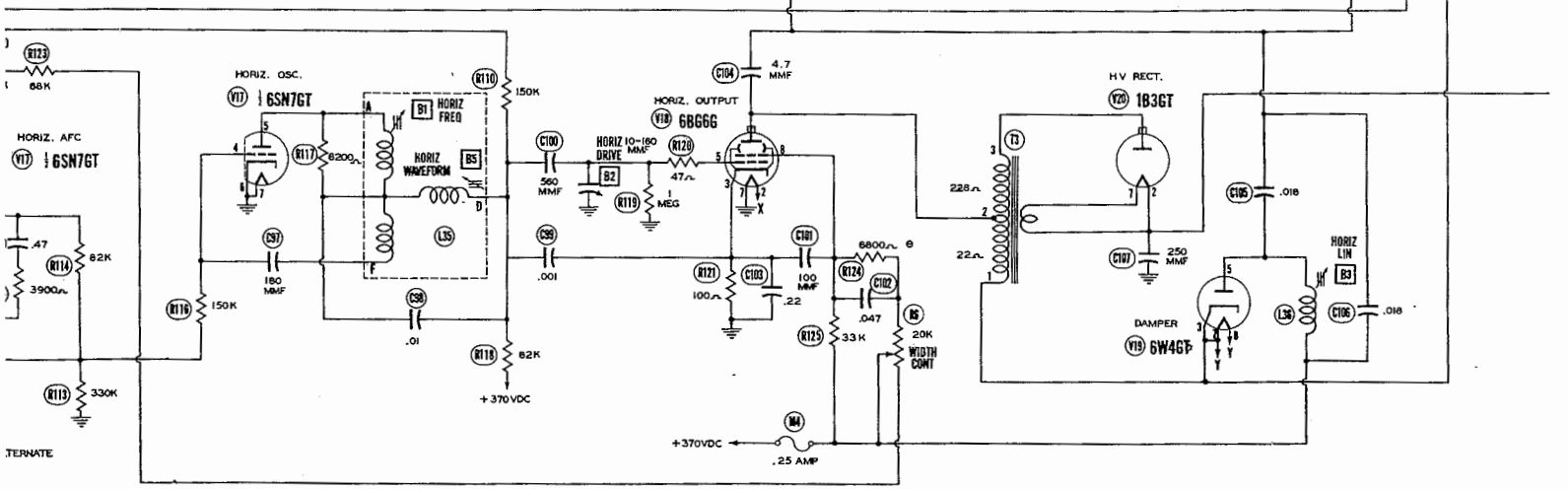
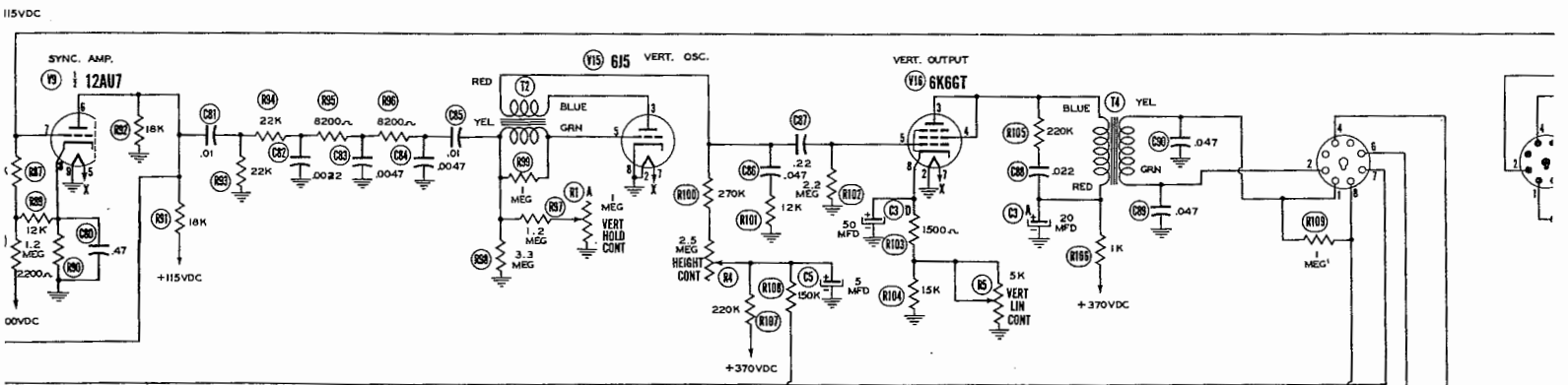
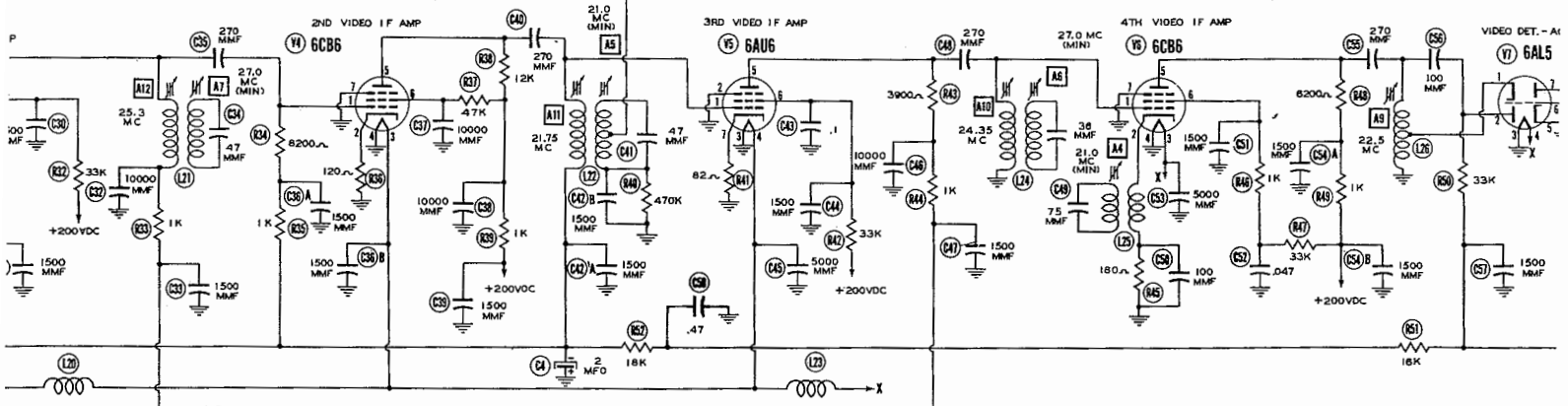
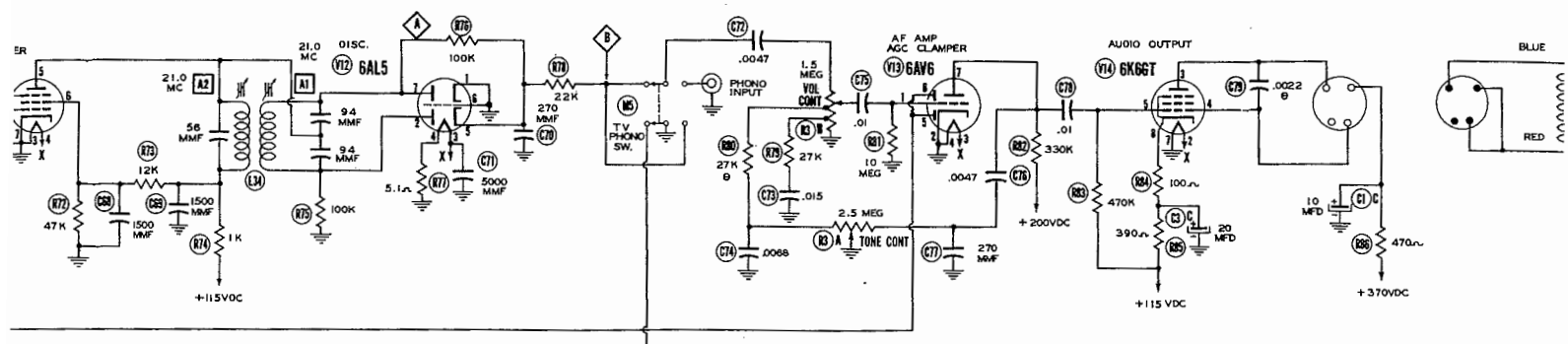


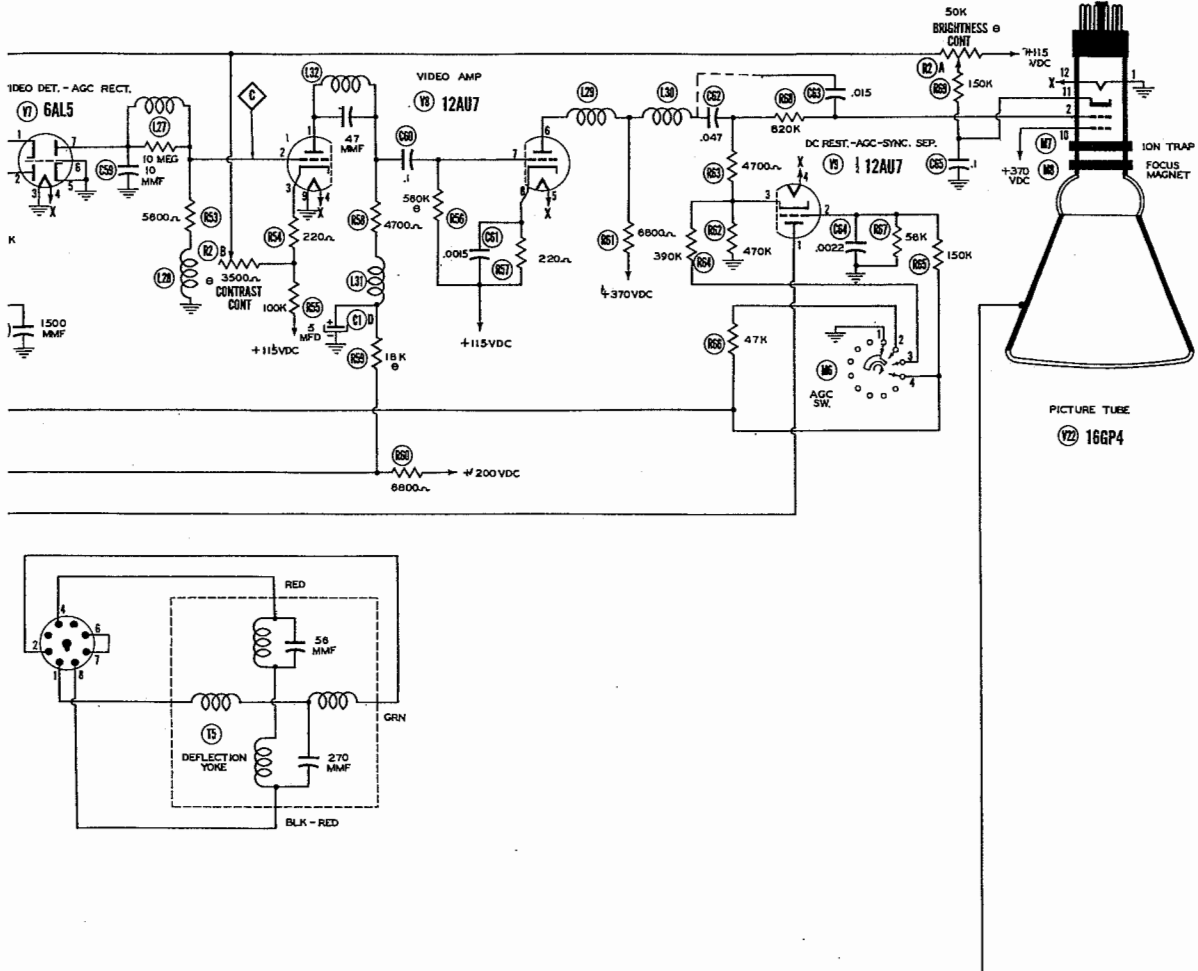
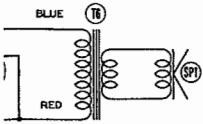
CHANNEL SW. SHOWN IN CHANNEL 2 POSITION

A PHOTOFAC STANDARD NOTATION SCHEMATIC
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DOTTED IN PARTS ARE NOT USED IN ALL MODELS. WHEN DOTTED IN PARTS ARE USED POINTS MARKED X ARE BROKEN.

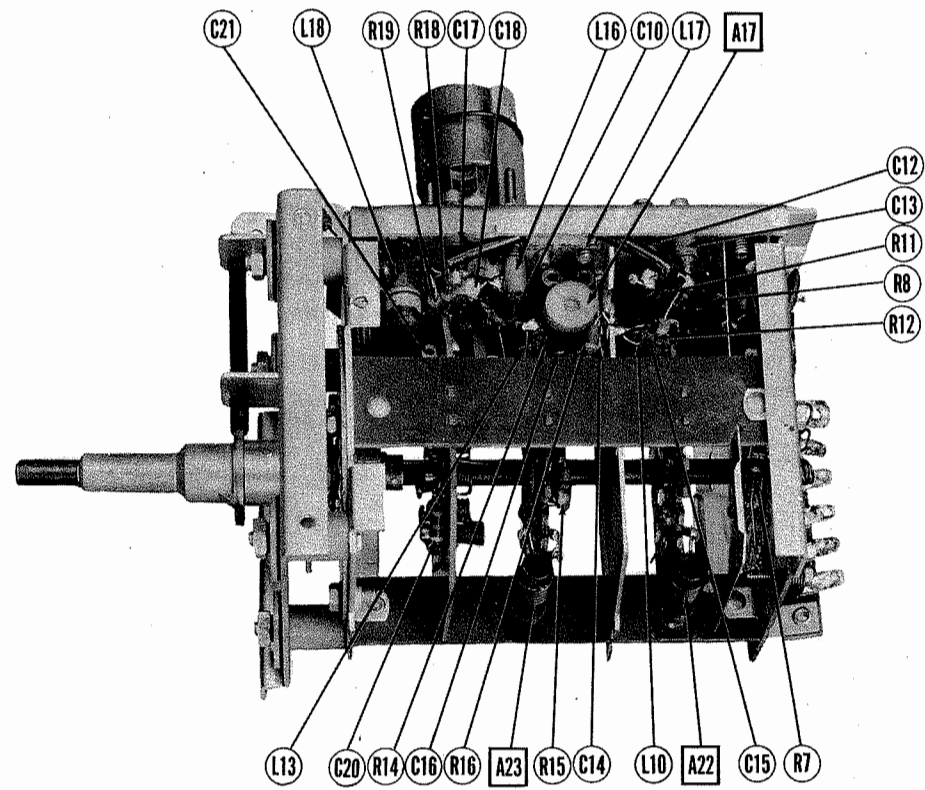
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION



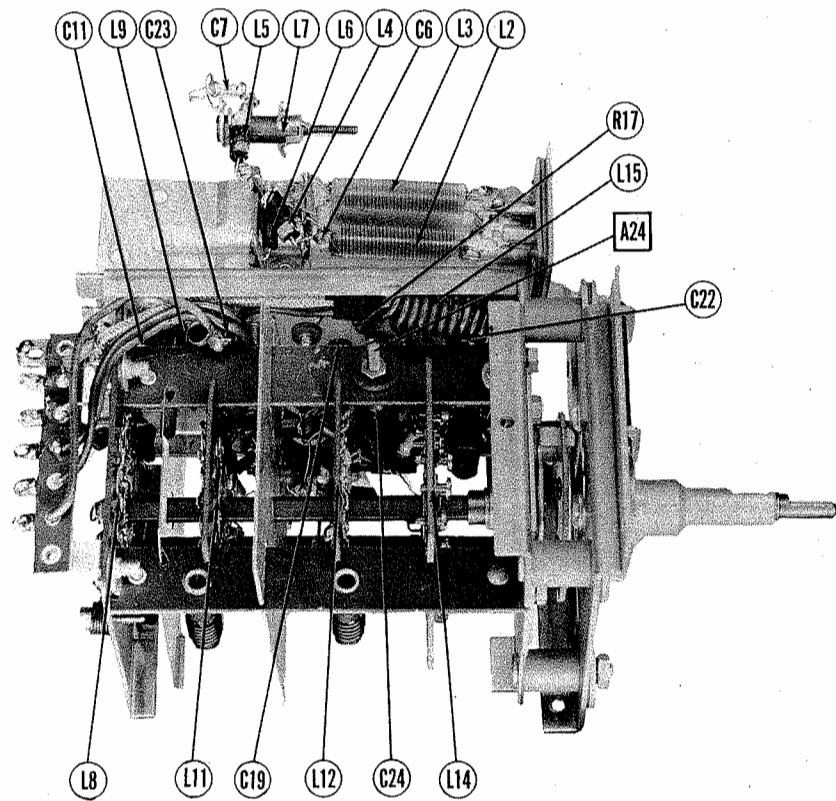


6T71, 6T74, 6T75, 6T76 (Ch. KCS47, A)

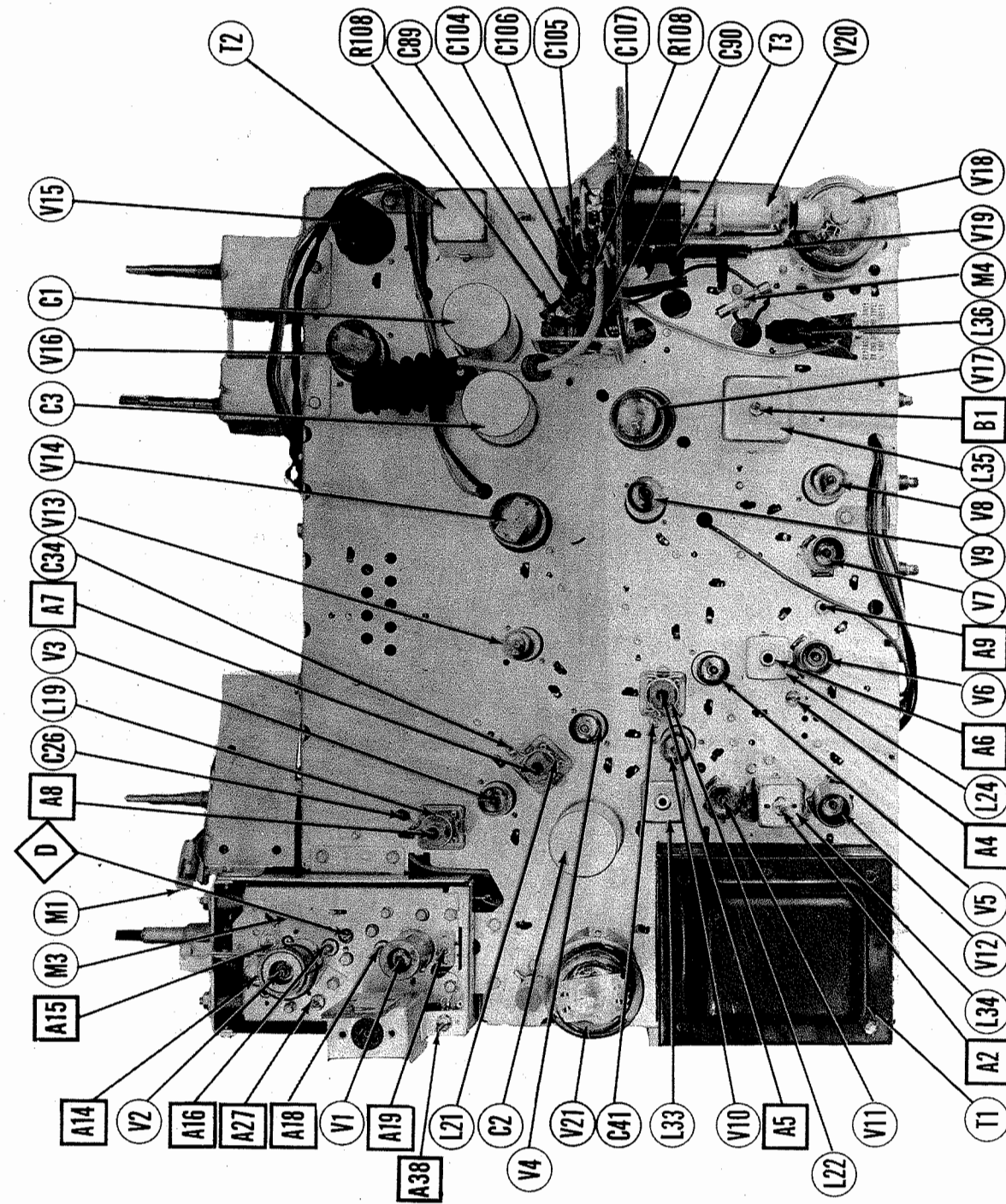
RCA VICTOR MODELS 6T54, 6T64, 6T65, 6T71, 6T74, 6T75, 6T76 (Ch. KCS47, A)



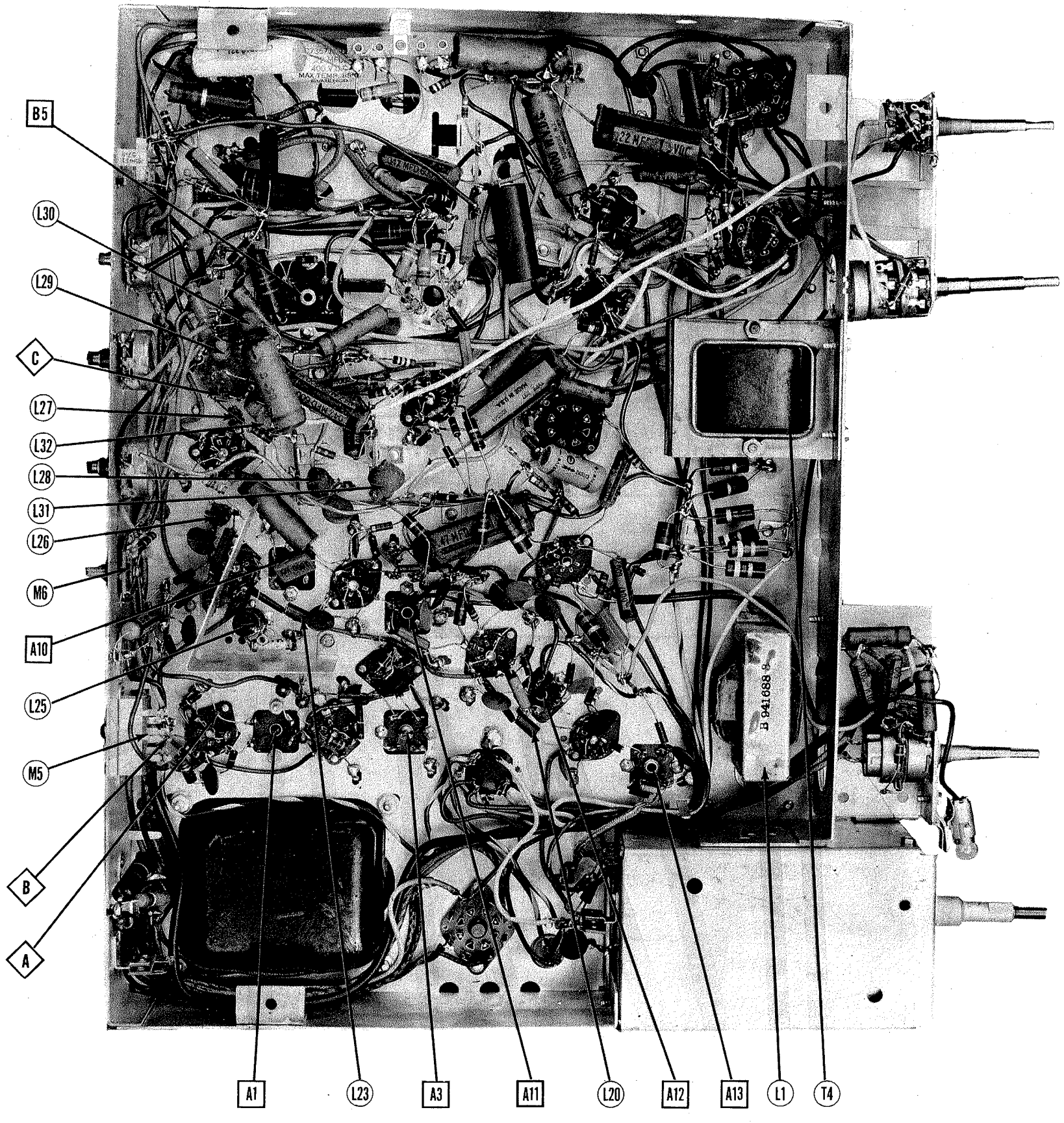
RF TUNER-RIGHT SIDE



RF TUNER-LEFT SIDE



RCA VICTOR MODELS 6T54, 6T64, 6T65,
6T71, 6T74, 6T75, 6T76 (Ch. KCS47A)
MAIN CHASSIS VIEW



RCA VICTOR MODELS 6154, 6164, 6165,
6171, 6174, 6175, 6176 (Ch. KCS47,A)
CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

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	6CB6	-.2VDC	.4VDC	0V.	6.3VAC	160VDC	80VDC	0V.		
V 2	6J6	55VDC	130VDC	0V.	6.3VAC	-1VDC	§-2.3VDC	0V		
V 3	6AU6	-.2VDC	0V.	0V.	6.3VAC	100VDC	120VDC	1VDC		
V 4	6CB6	-.2VDC	1VDC	6.3VAC	0V.	130VDC	105VDC	0V.		
V 5	6AU6	-.2VDC	0V.	0V.	6.3VAC	80VDC	115VDC	.8VDC		
V 6	6CB6	0V.	1.9VDC	6.3VAC	0V.	125VDC	135VDC	0V.		
V 7	6AL5	0V.	-.3VDC	0V.	6.3VAC	0V.	0V.	-.2VDC		
V 8	12AU7	100VDC	-.2VDC	6VDC	6.3VAC	6.3VAC	▲180VDC	▲0V.	▲3VDC	0V.
V 9	12AU7	5VDC	0V.	1.2VDC	6.3VAC	6.3VAC	33VDC	5VDC	6.6VDC	0V.
V 10	6AU6	-.3VDC	0V.	0V.	6.3VAC	105VDC	105VDC	.7VDC		
V 11	6AU6	-1.1VDC	0V.	0V.	6.3VAC	110VDC	75VDC	0V.		
V 12	6AL5	0V.	-.8VDC	6.3VAC	1.2VAC	0V.	0V.	-.6VDC		
V 13	6AV6	-.8VDC	0V.	6.3VAC	0V.	-.2VDC	-.2VDC	80VDC		
V 14	6K6GT	▲12VDC	6.3VAC	▲240VDC	▲250VDC	▲.2VDC	0V.	0V.	▲15VDC	
V 15	6J5	0V.	0V.	125VDC	0V.	-.37VDC	0V.	6.3VAC	0V.	
V 16	6K6GT	0V.	0V.	360VDC	360VDC	0V.	36VDC	6.3VAC	32VDC 53VDC	
V 17	6SN7GT	-2.4VDC	135VDC	-2 VDC	-80VDC	205VDC	0V.	0V.	6.3VAC 310VDC 300VDC	TOP CAP *
V 18	6BG6G	370VDC	6.3VAC	6.6VDC	0V.	-.28VDC	0V.	0V.		
V 19	6W4GT	0V.	0V.	500VDC	0V.	375VDC	0V.	500VDC	500VDC	
V 20	1B3GT	* DO NOT MEASURE.								
V 21	5U4G	0V.	375VDC	0V.	355VAC	0V.	355VAC	0V.	375VDC	
V 22	16GP4	0V.	.3VDC	PIN 10 370VDC	PIN 11 110VDC	PIN 12 6.3VAC				

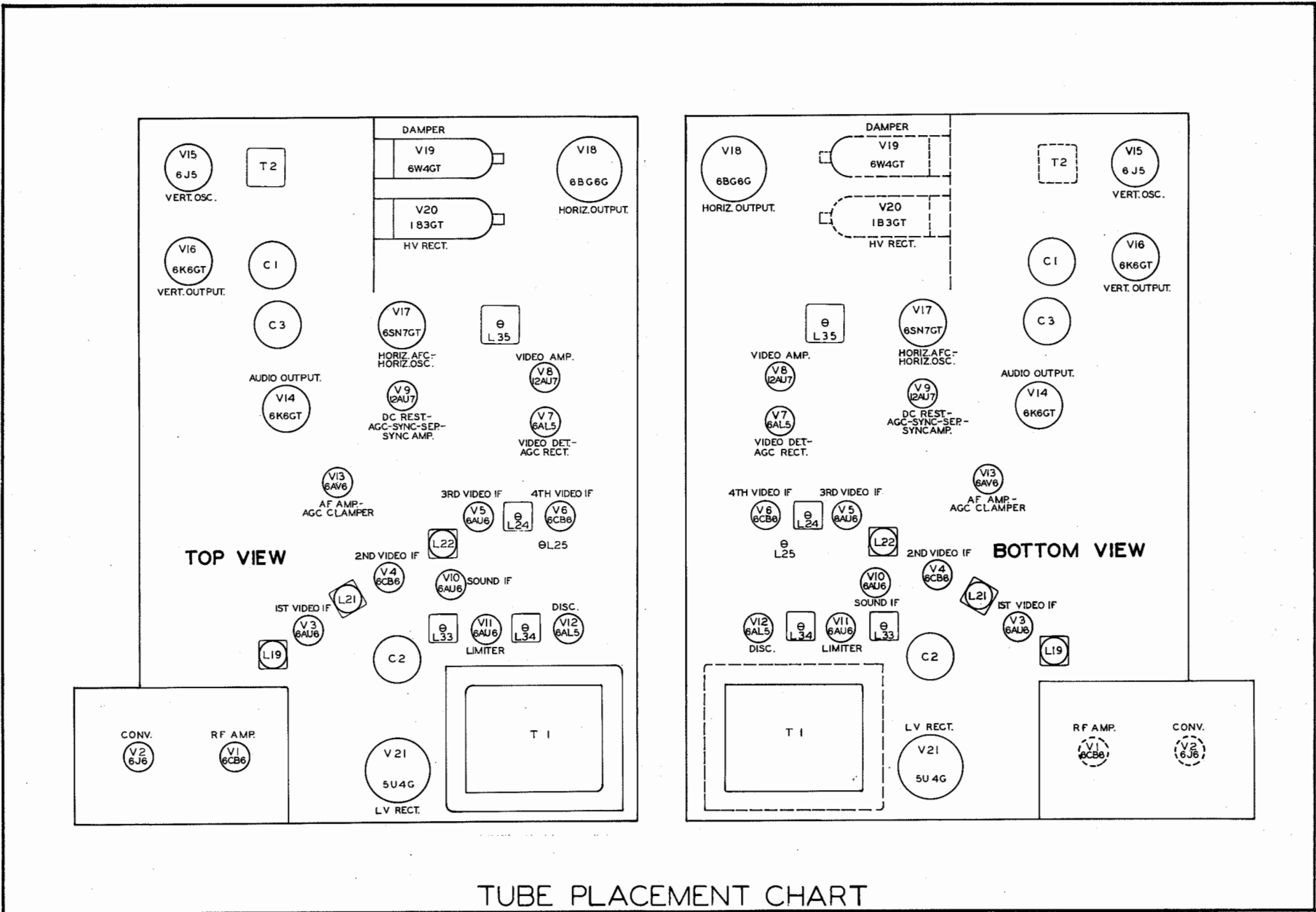
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	70KΩ	27Ω	0Ω	.1Ω	†7.4KΩ	†27KΩ	0Ω		
V 2	6J6	†19KΩ	†9KΩ	0Ω	.1Ω	100KΩ	100KΩ	0Ω		
V 3	6AU6	37KΩ	0Ω	0Ω	.1Ω	†12KΩ	†37KΩ	120Ω		
V 4	6CB6	45KΩ	120Ω	.1Ω	0Ω	†17KΩ	†50KΩ	0Ω		
V 5	6AU6	36KΩ	0Ω	0Ω	.1Ω	†15KΩ	†37KΩ	82Ω		
V 6	6CB6	.1Ω	180Ω	.1Ω	0Ω	†13KΩ	†38KΩ	0Ω		
V 7	6AL5	.1Ω	33KΩ	0Ω	.1Ω	0Ω	0Ω	5.6KΩ		
V 8	12AU7	†34KΩ	5.6KΩ	3.7KΩ	.1Ω	.1Ω	†6.8KΩ	▲560KΩ	▲220Ω	0Ω
V 9	12AU7	60KΩ	45KΩ	270KΩ	.1Ω	.1Ω	▲12KΩ	60KΩ	2.2KΩ	0Ω
V 10	6AU6	470KΩ	0Ω	0Ω	.1Ω	▲1KΩ	▲1KΩ	82Ω		
V 11	6AU6	100KΩ	0Ω	0Ω	.1Ω	▲1KΩ	▲12KΩ	0Ω		
V 12	6AL5	0Ω	100KΩ	.1Ω	3Ω	200KΩ	0Ω	100KΩ		
V 13	6AV6	10 Meg.	0Ω	.1Ω	0Ω	70KΩ	80KΩ	†140KΩ		
V 14	6K6GT	▲390Ω	.1Ω	†910Ω	†510Ω	▲470KΩ	Inf.	0Ω	▲490Ω	
V 15	6J5	0Ω	0Ω	†490KΩ †3 Meg.	Inf.	1.4 Meg.	Inf.	.1Ω	0Ω	
V 16	6K6GT	Inf.	0V.	†1.5KΩ	†1.5KΩ	2.2 Meg.	3KΩ	.1Ω	4.7KΩ 1.5KΩ	
V 17	6SN7GT	1.5 Meg.	†50KΩ	410KΩ	480KΩ	†82KΩ	0Ω	0Ω	.1Ω	TOP CAP #22Ω
V 18	6BG6G	†43Ω	.1Ω	100Ω	Inf.	1 Meg.	319KΩ	0Ω	†6KΩ †16KΩ	TOP CAP #250Ω
V 19	6W4GT	Inf.	Inf.	400KΩ	Inf.	†75Ω	Inf.	#0Ω	#.3Ω	
V 20	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP #250Ω
V 21	5U4G	Inf.	13KΩ	Inf.	22Ω	Inf.	22Ω	Inf.	13KΩ	
V 22	16GP4	0Ω	1.2 Meg.	PIN 10 143Ω	PIN 11 190KΩ	PIN 12 .1Ω				

AGC SWITCH IN POSITION 3.
TV - PHONO SWITCH IN "TV" POSITION.
▲ MEASURED FROM +115 VOLT LINE.
§ TAKEN WITH VACUUM TUBE VOLTMETER.

AGC SWITCH IN POSITION 3.
TV - PHONO SWITCH IN "TV" POSITION.
† MEASURED FROM PIN 8 OF V21.
▲ MEASURED FROM +115 VOLT LINE.
MEASURED FROM PIN 3 OF V19.

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.



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To prevent the high voltage shock hazard remove the horizontal output tube (V18) from its socket.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to pin 1 (Grid) of 6AU6 (V11). Low side to chassis.	21MC (Unmod.)	Any	DC Probe to Point A. Common to chassis.	A1, A2	Detune A1. Adjust A2 for maximum deflection.
2. Direct	"	"	"	DC Probe to Point A. Common to chassis.	A1	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
3. Direct	High side to pin 1 (Grid) of 6AU6 (V10). Low side to chassis.	"	"	DC Probe thru 100KΩ to pin 1 (Grid) of 6AU6 (V11). Common to chassis.	A3	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. Direct	High side to pin 1 (Grid) of 6AU6 (V10). Low side to chassis.	21MC (450KC SWP)	21MC	Any	Vert. Amp. thru 100KΩ to pin 1 (Grid) of 6AU6 (V11). Low side to chassis.	A3	Adjust for maximum amplitude and symmetry as per figure 1.
2. Direct	"	"	"	"	Vert. Amp. to Point B. Low side to chassis.	A1, A2	Adjust A1 to place 21MC 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 converter tube (V2) from its socket and replace with a 6J6 with pin 1 removed to prevent erroneous indications. In steps 4 thru 10 connect the negative terminal of a 3 volt battery to the junction of R21 and R30. Connect the positive terminal to chassis. In step 11 reduce the 3 volts bias to 1 volt. In step 12 connect a 4.5 volt battery as in steps 4 thru 10. Before attempting step 11 connect 330Ω resistors across R34, R38, R43, and R48.

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 dummy converter tube (V2). Low side to chassis.	Not used	21MC (Unmod.)	Any	Use VTVM. DC Probe to Point C. Common to chassis.	A4, A5	Adjust for MINIMUM deflection.
5. Direct	"	"	27MC	"	"	A6, A7	"
6. Direct	"	"	19.5MC	"	"	A8	"
7. Direct	"	"	22.5MC	"	"	A9	Adjust for maximum deflection.
8. Direct	"	"	24.35MC	"	"	A10	"
9. Direct	"	"	21.75MC	"	"	A11	"
10. Direct	"	"	25.3MC	"	"	A12	"
11. Direct	"	23.5MC (10MC SWP)	22.3MC 25.4MC	"	Vert. Amp. to Point C. Low side to chassis.	A13, A14	Adjust for response curve similar to figure 3 with markers as shown. Remove the 330Ω resistors.
12. Direct	"	"	21.85MC 24.75MC 25.5MC 26.25MC	"	"	"	Check for response curve similar to figure 4 with markers as shown. If necessary, slightly retouch A9 thru A14 for proper response.

RF TUNER ALIGNMENT

Remove the dummy converter tube and replace original 6J6 in its socket. Disconnect the co-ax link from terminal 2 of the terminal board on the RF tuner and connect a 39Ω carbon resistor between terminals 1 and 2. Loosely couple the link to the terminal board of the RF tuner. Turn the AGC control fully counter-clockwise. Connect the negative terminal of a 3 volt battery to terminal 3 on the terminal board of the RF tuner and the positive terminal to chassis. Set the fine tuning control to the mid-position of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE OR CONNECT VTVM	ADJUST	REMARKS
13. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	Not used	215.75MC	13	VTVM DC Probe to Point D. Common to chassis.	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
14. "	"	183MC (10MC SWP)	181.25MC 185.75MC	8	SCOPE Vert. Amp. to Point D. Low side to chassis.	A16, A17, A18, A19	Adjust for shape of response curve and bandwidth as shown in figure 5.
15. "	"	Not used	87.75MC	6	VTVM DC Probe to Point D. Common to chassis.	A20	Adjust as in step 13.
16. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	SCOPE Vert. Amp. to Point D. Low side to chassis.	A21, A22, A23	Adjust for response curve similar to figure 6.
17.	Connect the VTVM to Point D and adjust A24 for -3 volts reading. If necessary, slightly retouch A21, A22, A23 and A17 for proper response on channel 6. Repeat these retouching adjustments until proper response is obtained and a -3 volts is obtained at point D.						

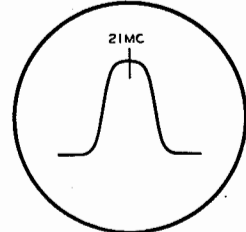


FIG. 1

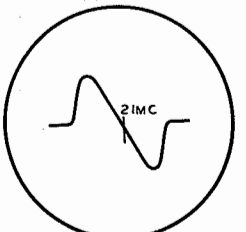


FIG. 2

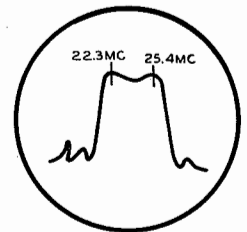


FIG. 3

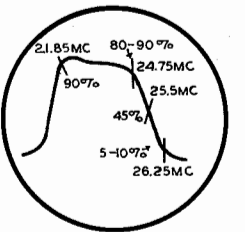


FIG. 4

ALIGNMENT INSTRUCTIONS (CONT.)

18. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	Not used	185.75MC	8	VTVM DC Probe to Point D. Common to chassis.	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
19. "	"	183MC (10MC SWP)	181.25MC 185.75MC	8	SCOPE Vert. Amp. to Point D. Low side to chassis.	"	Readjust A16, A17 and A19 for correct shape of response curve, frequency, and bandwidth as shown in figure 5. If necessary, readjust A18.
20. "	"	213MC (10MC SWP)	211.25MC 215.75MC	13	"	A25	Adjust for maximum amplitude of response curve midway between the markers. Then overshoot adjustment by turning slug in same direction a little more than the turning required to reach maximum amplitude from the initial setting. Adjust A19 for maximum amplitude.
21. "	"	Not used	215.75MC	13	VTVM DC Probe to Point D. Low side to chassis.	A26	Adjust for zero reading as in step 18. Then overshoot adjustment as in step 20. Adjust A15 to reset oscillator to proper frequency.
22. "	"	213MC (10MC SWP) 207MC (10MC SWP) 201MC (10MC SWP) 195MC (10MC SWP) 189MC (10MC SWP) 183MC (10MC SWP) 177MC (10MC SWP)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC	13 12 11 10 9 8 7	SCOPE Vert. Amp. to Point D. Low side to chassis.	"	Check all high band channels for proper response with markers above 80%. If markers do not appear well within 80%, repeat step 14. If A19 is adjusted, the adjustment should be overshoot a small amount and compensated for by adjusting A25 for maximum amplitude between the sound and video markers. If the valley in the top of the curves for the high channels is deeper than normal, adjust A27 to flatten the curve. In later productions A24 may be fixed and will not require adjustment.
23.	Check the oscillator frequency for the high band channels. If the oscillator is off frequency, overshoot the adjustment of A15 and compensate for by adjusting A26 for zero voltage at Point B.						
24.	Repeat step 15.						
25. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	85MC (10MC SWP)	83.25MC 87.75MC	6	SCOPE Vert. Amp. to Point D. Low side to chassis.	"	Check for response curves similar to figure 8. If necessary, slightly readjust A21, A22 and A23 for proper response.
26.	Check the voltage at Point D. If necessary adjust A24 for a -3 volt reading. If A24 is adjusted, turn the channel switch to channel 8 and readjust A16 for proper response.						
27. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	85MC (10MC SWP)	83.25MC 87.75MC	6	SCOPE Vert. Amp. to Point D. Low side to chassis.	"	Check all low band channels for proper shape of response curves as shown in figure 6 and the injection voltage at Point D which should be -3 volts. Also recheck channels 7 thru 13.
28. "	"	Not used	215.75MC	13	VTVM DC Probe to Point D. Common to chassis.	"	If necessary adjust A15 for zero reading as in step 13.
29. "	"	"	209.75MC 203.75MC 197.75MC 191.75MC 185.75MC 179.75MC 87.75MC 81.75MC 71.75MC 65.75MC 59.75MC	12 11 10 9 8 7 6 5 4 3 2	"	A28 A29 A30 A31 A32 A33 A34 A35 A36 A37	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
30.	Turn channel switch to channel 8 and adjust A14 for proper response. When A14 is properly adjusted the curve will be slightly wider with a slightly deeper valley at the top. Check all channels for proper response, oscillator injection voltage at Point D, and oscillator frequency. Slight touch-up adjustments may be made if necessary. If A16 and A24 are changed considerably, a recheck of the oscillator frequency on all channels should be made.						
31.	Disconnect the 39Ω resistor from terminals 1 and 2 on the terminal board of the RF Tuner and reconnect the co-ax link. Repeat steps 11 and 12 of Video IF Alignment.						

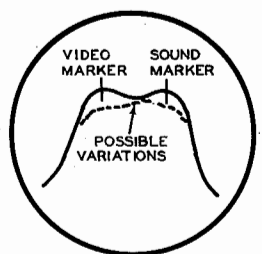


FIG. 5

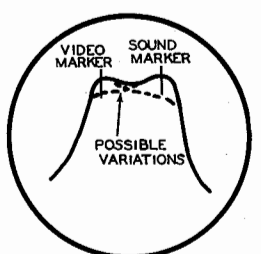
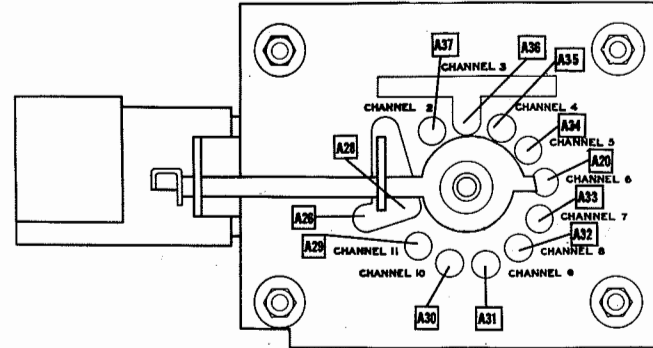
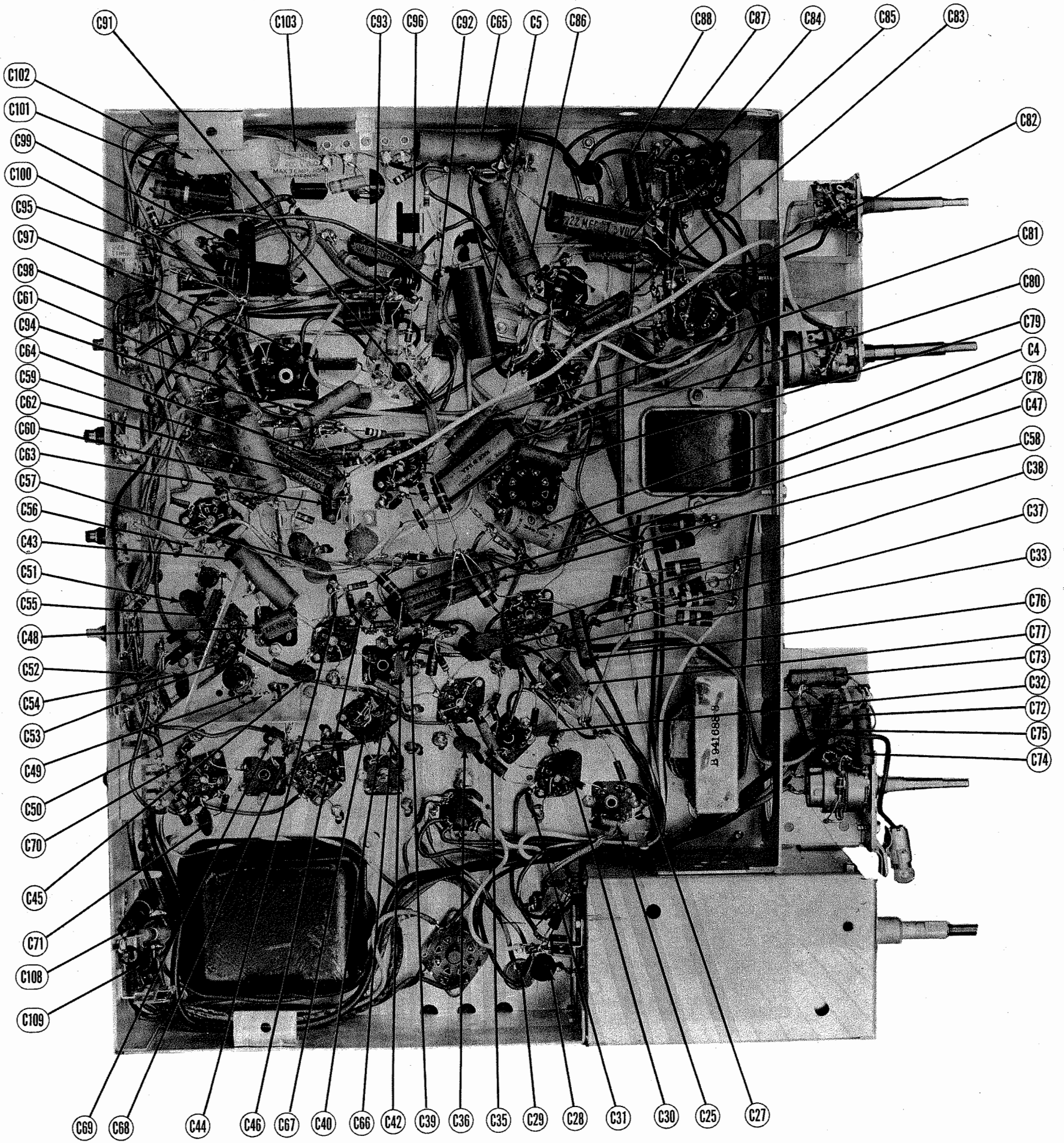


FIG. 6



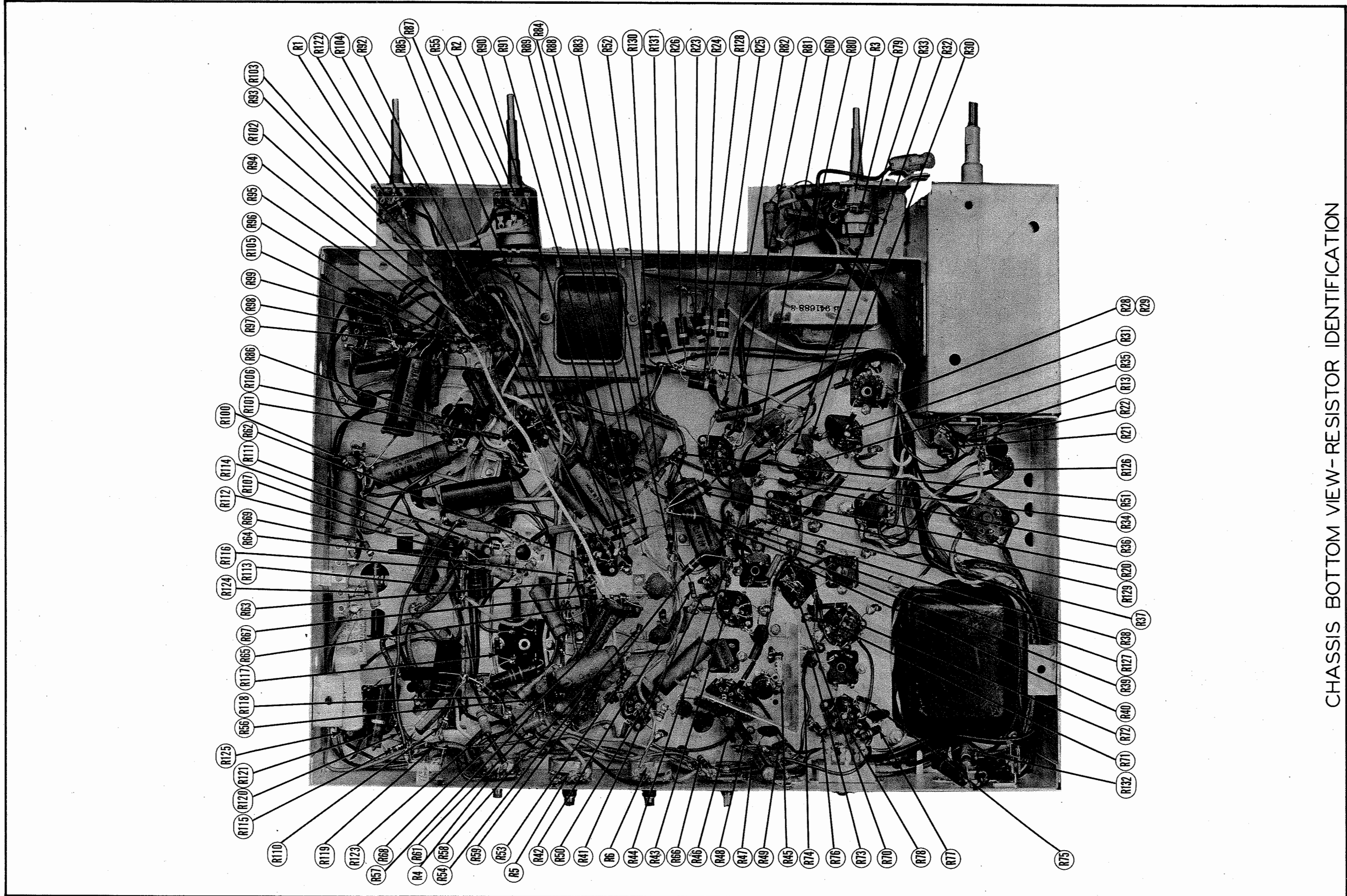
OSC. ALIGNMENT POINTS

RCA VICTOR MODELS 6T54, 6T64, 6T65, 6T71, 6T74, 6T75, 6T76 (Ch. KCS47, A)



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

RCA VICTOR MODELS 6154, 6164, 6165,
6171, 6174, 6175, 6176 (Ch. KCS47,A)



CHASSIS BOTTOM VIEW - RESISTOR IDENTIFICATION

RCA VICTOR MODELS 6T54, 6T64, 6T65,
6T71, 6T74, 6T75, 6T76 (Ch. KCS47,A)

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF) CONT.

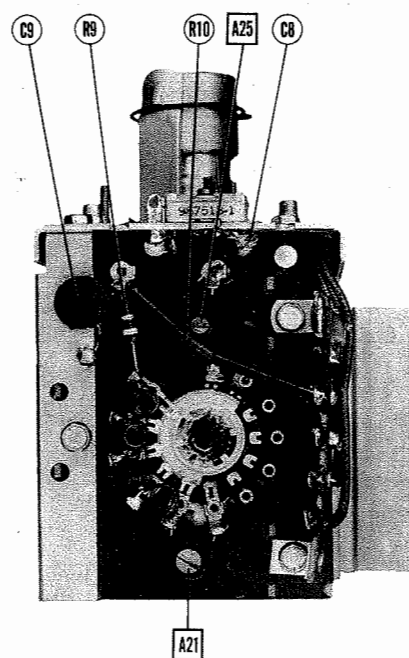
ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	RCA PART No.	MEISSNER PART No.	
L17	RF Choke	.3Ω		75202		.56 microhenries
L18	Conv. Trans.	.3Ω	.1Ω	75181		With trap
L19	1st Video IF	.1Ω	5Ω	74589		
L20	Fil. Choke	0Ω		73477		
L21	2nd Video IF			74590		With trap
L22	3rd Video IF					
	-Sound Take Off	.3Ω	.1Ω	75209		
L23	Fil. Choke	0Ω		73477		
L24	4th Video IF	.1Ω	.1Ω	74592		With trap
L25	Sound Trap	.1Ω	0Ω	71778		Includes C49
L26	5th Video IF	.5Ω		75210		
L27	Peaking	3Ω		75299		36 microhenries, wound on 10 Meg. resistor
L28	Peaking	5.5Ω		75253	19-1921	120 microhenries, blue-red dots
L29	Peaking	2.7Ω		71793		36 microhenries, black dot
L30	Peaking	5.5Ω		75253	19-1921	120 microhenries, blue-red dots
L31	Peaking	13Ω		75252	19-1923	500 microhenries, green-white dots
L32	4.5MC Trap	2.7Ω		75251		Wound on 47MMF capacitor, green-yellow dots
L33	Sound IF	.3Ω		75211		
L34	Disc. Trans.	.1Ω	.1Ω	75212		
L35	Horiz. Osc. Trans.	80Ω	48Ω	75213		
L36	Horiz. Lin.	30Ω		71449		

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 (Jewel)

MISCELLANEOUS

ITEM No.	PART NAME	RCA PART No.	NOTES
M3	RF Tuner	73600	.25A 250V Type BEL
M4	Fuse		TV-Phono
M5	Switch		AGC Control
M6	Switch		
M7	Ion Trap	74953	
M8	Focus Magnet	75504	Complete with adjustable plate and stud
	Safety Glass	74606	Models 6T64, 6T51, 6T71, 6T74, 6T75, 6T76
	Safety Glass	75530	Model 6T54
	Knob	74960	Channel selector, maroon
	Knob	74961	Channel selector, tan
	Knob	75462	Channel selector, beige
	Knob	74959	Fine tuning, maroon
	Knob	73995	Fine tuning, tan
	Knob	75461	Fine tuning, beige
	Knob	74962	Tone, Brightness, Vert. hold, maroon
	Knob	73999	Tone, Brightness, Vert. hold, tan
	Knob	75463	Tone, Brightness, Vert. hold, beige
	Knob	74963	Contrast, Horiz. hold, volume, maroon
	Knob	74001	Contrast, Horiz. hold, volume, tan
	Knob	75464	Contrast, Horiz. hold, volume, beige
	Escutcheon	75455	Channel selector, mahogany or walnut cabinets.
	Escutcheon	75456	Channel selector, maple or oak cabinets.
	Escutcheon	75499	Channel selector, metal cabinets.
	Antenna Matching Unit	75509	



RF TUNER-REAR VIEW

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.	6CB6	6CB6	6CK	
V2	Converter	6J6	6J6	7BF	
V3	1st Video IF	6AU6	6AU6	7BK	
V4	2nd Video IF	6CB6	6CB6	6CK	
V5	3rd Video IF	6AU6	6AU6	7BK	
V6	4th Video IF	6CB6	6CB6	6CK	
V7	Video Det. -AGC Rect.	6AL5	6AL5	6BT	
V8	Video Amp.	12AU7	12AU7	9A	
V9	DC Rest. -AGC-Sync. Sep.-Sync. Amp.	12AU7	12AU7	9A	
V10	Sound IF	6AU6	6AU6	7BK	
V11	Limiter	6AU6	6AU6	7BK	
V12	Disc.	6AL5	6AL5	6BT	
V13	AF Amp. -AGC Clamp	6AV6	6AV6	7BT	
V14	Audio Output	6K6GT	6K6GT	7S	
V15	Vert. Osc.	6J5	6J5	6Q	
V16	Vert. Output	6K6GT	6K6GT	7S	
V17	Hor. AFC-Hor. Osc.	6SN7GT	6SN7GT	8BD	
V18	Hor. Output	6BG6G	6BG6G	5BT	
V19	Damper	6W4GT	6W4GT	4CG	
V20	HV Rect.	1B3GT	1B3GT	3C	
V21	LV Rect.	5U4G	5U4G	5T	
V22	Picture Tube	16GP4	16GP4	12D	

CAPACITORS

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

ITEM No.	RATING		REPLACEMENT DATA						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	35	450	75510	AFH7721J			UPT420		▲ Filter
B	35	450							■ Filter
C	10	450							▲ Output Decoup.
D	5	450							V. Amp. Decoup.
C2A	35	450	75510	AFH7721J			UPT420		▲ Filter
B	35	450							■ Filter
C	10	450							▲ Filter
D	5	450							Decoupling
C3A	20	450	75511	AFHJ164E10B			UPT421		▲ Vert. Output Dec.
B	80	200							■ Filter
C	20	200							▲ Output Cathode
D	50	50							Vert. Output Cath.
C4	2	50	73747	SRE50/2			BBR2-50T	TVA-1301	AGC Filter
C5	5	450	28417	PRS450/4			BR445	TVA-1702	Vert. Osc. Dec.
C6	100	75437		SI100	D6-101			19C11	RF Coupling
C7	39	75450			TCN-39				Fixed Trimmer
C8	270	75199		SI270	D6-271			19C31	RF Coupling
C9	5000	73473		BPD-005	DD-502			29C1	AGC Filter
C10A	1500	75089		BPD-2 x 0015	DD-2-152			29C6	RF Screen
B	1500			SI12	D6-120				RF Filament
C11	12	75200						GPIK-12	RF Cath.
C12	1500	75166							RF Bypass
C13	1500	75166							RF Bypass
C14	270	75199		SI270	D6-271			GP2K-270	RF Coupling
C15	270	75199		SI270	D6-271			GP2K-270	RF Coupling
C16	390	75641		SI390	D6-391			GP2K-390	RF Coupling
C17	1500	75166							Conv. Decoupling
C18	6.8	75197		SI6.8NPO	TCZ-6.8			NPOK-6.8	Fixed Trimmer
C19	39	75196			TCN-39			N750L-39	Fixed Trimmer
C20	.68	71504			TCZ-.68				Fixed Trimmer
C21	15	45485			TCZ-15				Osc. Feedback
C22	4	75289						GPIK-15	Osc. Feedback
C23	1500	75166						NPOK-4	Filament Bypass
C24	1500	73748		BPD-0015	DD-152			811-0015	Conv. Fil. Bypass
C25	56	71924			TCZ-56			NPOM-56	Fixed Trimmer
C26	82				TCZ-82			NPOM-82	Fixed Trimmer
C27	1500	73748		BPD-0015	DD-152			1W5D15	AGC Filter
C28	1500	73748		BPD-0015	DD-152			1W5D15	AGC Filter
C29A	1500	75089		BPD-2 x 0015	DD-2-152			1W5D15	RF Bypass
B	1500							882-2 x 0015	RF Bypass
C30	1500	73748		BPD-0015	DD-152			1W5D15	1st V. IF Screen
C31	1500	73748		BPD-0015	DD-152			1W5D15	1st V. IF Fil.
C32	10000	73960		BPD-01	DD-103			PTE6S1	1st V. IF Plate Dec.
C33	1500	73748		BPD-0015	DD-152			1W5D15	RF Bypass
C34	47				TCZ-47			NPOM-47	Fixed Trimmer
C35	270	73091		1468-00025	D6-271			5W5T25	IF Coupling
C36A	1500	75089		BPD-2 x 0015	DD-2-152			1W5D15	AGC Filter
B	1500							882-2 x 0015	AGC Filter
C37	10000	73960		BPD-01	DD-103			PTE6S1	2nd V. IF Fil.
C38	10000	73960		BPD-01	DD-103			PTE6S1	2nd V. IF Screen
C39	1500	73748		BPD-0015	DD-152			1W5D15	2nd V. IF Dec.
C40	270	73091		1468-00025	D6-271			5W5T25	RF Bypass
C41	47				TCZ-47			NPOM-47	Fixed Trimmer
C42A	1500	75089		BPD-2 x 0015	DD-2-152			1W5D15	AGC Filter
B	1500							882-2 x 0015	AGC Filter
C43	1	73551		P488-1	DF-104			PTE4P1	1st S. IF Grid Filter
C44	1500	73748		BPD-0015	DD-152			1W5D15	3rd V. IF Screen
C45	5000	73473		BPD-005	DD-502			1D5D5	3rd V. IF Fil.
C46	10000	73960		BPD-01	DD-103			PTE6S1	3rd V. IF Plate Dec.
C47	1500	73748		BPD-0015	DD-152			1W5D15	RF Bypass
C48	270	73091		1468-00025	D6-271			5W5T25	IF Coupling
C49	75				TCZ-75			NPOM-75	Fixed Trimmer
C50	100	45469		SI175NPO	TCZ-100			5W5T1	4th V. IF Cath.
C51	1500	73748		BPD-0015	DD-152			1W5D15	29C8
C52	.047	400	73553	P488-047	DF-503			PTE4S5	4th V. IF Screen

RCA VICTOR MODELS 6T54, 6T64, 6T65, 6T71, 6T74, 6T75, 6T76 (Ch. KCS47, A)

PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (CONT.)

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.
C53	5000		73473	BPD-005	DD-502	ID5D5	811-005	29C1	4th V. IF Fil.
C54A	1500		75089	BPD-2 x 0015	DD-2-152	IW5D15	882-2 x 0015	29C6	4th V. IF Plate Dec.
C55	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C56	100		39396	S1100	D6-101	5W5T1	GP1K-100	19C11	IF Coupling
C57	1500		73748	BPD-0015	DD-152	IW5D15	811-0015	29C8	AGC Filter
C58	.47	200	73787	P288-47		GT2P5		2TM-P47	AGC Filter
C59	.1		53511	S110	D6-100	5W5Q1	GP1K-10	19C19	V. Diode Filter
C60	.1	400	73551	P488-01	DF-104	PTE4P1		4TM-P1	Video Coupling
C61	.0015	600	73598	P688-0015	DF-152	PTE4S2	GP2L-0015	6TM-D15	V. Amp. Cath.
C62	.047	600	73592	P688-047	DF-503	PTE6S5		6TM-S47	Video Coupling
C63	.015	400	73797	P488-015		PTE6S15		6TM-S15	Video Coupling
C64	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Sync. Sep. Grid
C65	.1	600	73557	P688-1	DF-104	PTE6P1		6TM-P1	Pic. Tube Grid
C66	10000		73960	BPD-01	DD-103	PTE6S1	811-01	36C1	1st S. IF Dec.
C67	1500		73748	BPD-0015	DD-152	IW5D15	811-0015	29C8	1st S. IF Cath.
C68	1500		75166	BPD-0015	DD-152	IW5D15	811-0015	29C8	Limiter Screen
C69	1500		75166	BPD-0015	DD-152	IW5D15	811-0015	29C8	Limiter Dec.
C70	270		75244	S1270	D6-271	5W5T25	GP2K-270	19C31	RF Bypass
C71	5000		73473	BPD-005	DD-502	ID5D5	811-005	29C1	Discr. Filament
C72	.0047	600	73920	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Audio Coupling
C73	.015	200	73797	P288-015		PTE6S15		6TM-S15	Tone Comp.
C74	.0068	400	73808	P488-0068	D6-682	PTE16D7		6TM-D68	Tone Comp.
C75	.01	400	73561	P488-01	D6-103	PTE4S1	811-01	4TM-S1	Audio Coupling
C76	.0047	600	73920	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Tone Comp.
C77	270	500	39396	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	Tone Comp.
C78	.01	400	73561	P488-01	D6-103	PTE4S1	811-01	4TM-S1	Audio Coupling
C79	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Output Plate Byp. *
C80	.47	200	73787	P288-47		GT2P5		2TM-P47	Sync. Amp. Cath.
C81	.01	400	73561	P488-01	D6-103	PTE4S1	811-01	4TM-S1	Sync. Coupling
C82	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Integrator Net.
C83	.0047	600	73920	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Integrator Net.
C84	.0047	600	73920	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Integrator Net.
C85	.01	600	73594	P688-01	D6-103	PTE6S1	811-01	6TM-S1	Vert. Sync. Coupling
C86	.047	1000	73597	P1088-047		GT16S5		MB-S5	Vert. Discharge
C87	.22	600	74957	P488-22		GT6P25		6TM-P25	Vert. Sweep Coupling
C88	.022	400	73562	P488-022		4TM-S22		4TM-S22	Fixed Trimmer
C89	.047	1000	73597	P1088-047		GT16S5		MB-S5	Fixed Trimmer
C90	.047	1000	73597	P1088-047		GT16S5		MB-S5	Fixed Trimmer
C91	82	1000	73090	S182	TCZ-82	5W5T1	GP1K-82	1FM-31	Hor. Sync. Coupling
C92	82	1000	73090	S182					Hor. Feedback
C93	.047	400	73553	P488-047	DF-503	PTE4S5		4TM-S47	AFC Filter
C94	.022	400	73562	P488-022	DF-203	PTE4S2		4TM-S22	AFC Filter
C95	.47	200	73787	P288-47		GT2P5		2TM-P47	AFC Filter
C96	.047	600	73592	P688-047	DF-503	PTE6S5		6TM-S47	Hor. AFC Plate
C97	180	1000	73102	1469-0002	D6-181	5R5T2		MS-32	Hor. Osc. Grid
C98	.01	600	73594	P688-01		PTE6S1		6TM-S1	Fixed Trimmer
C99	.001	1000	75643	P1088-001		PTE16D1		6TM-D1	Hor. Discharge
C100	560	500	74250	1468-0005	D6-561	IW5T6	GP2K-560	1FM-35	Hor. Sweep Coupling
C101	100		39396	S1100	D6-101	5W5T1	GP1K-100	19C11	Hor. Output Screen
C102	.047	1000	73597	P1088-047		GT16S5		MB-S5	Hor. Output Screen
C103	.22	400	73794	P488-22		4TM-P22		4TM-P22	Hor. Output Cath.
C104	4.7	5000	75646						Hor. Sweep Coupling
C105	.018	1000	74727						Damper Filter
C106	.018	1000	74727						Damper Filter
C107	250	20000	74154	HV20B	TV1-502				HV Filter
C108	.01	600	75071	P688-01	D6-103	PTE6S1	811-01	6TM-S1	Line Filter
C109	.01	600	75071	P688-01	D6-103	PTE6S1	811-01	6TM-S1	Line Filter

* Some models use .0033MFD in this application. Mfg.'s Part No. 73795.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.		
R1A	1 Meg.		75215	Concentrikrit B11-137 * B11-123 * E-187 *	RTV-110	SBB-510	Vert. hold control-front Horiz. hold control-rear Attach per instr. in "Concentrikrit".	
R1B	50kΩ							
R1C	Shaft End							
R2A	50kΩ		75514	Concentrikrit B11-139 * B18-139XX * E-187 * 76-1 *	RTV-193	SBT-219-S	Brightness control-front Contrast control and switch-rear See note 1	
R2B	3500Ω							
R3A	2.5 Meg.		75513	Concentrikrit B11-139 * B18-139XX * E-187 * 76-1 *	RTV-194	SBT-219-S	Tone control-front Volume control tapped at 250K, 500K, rear Attach per instr. in "Concentrikrit".	
R3B	1.5 Meg.							
R3C	Shaft End							
R3D	Switch							
R4A	2.5 Meg.		71440	Q11-239 Not Req. Q11-114 Not Req. Q16-119 Not Req.	AM-84-S FKS-1/4 AM-19-S FKS-1/4 AM-37-U FKS-1/4	AN-83 AN-10 B-24	Height control Attach to R4A per instructions Vert. linearity control Attach to R5A per instructions Width control Attach to R6A per instructions	
R5A	5000Ω							
R5B	Shaft							
R6A	20kΩ							

* Additional parts to be used with "Concentrikrit".

Note 1. Chassis KCS47 uses same control with out switch, part No. 75216.

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R7	3900Ω			BTS-3900	RF Coil Shunt
R8	27Ω			BTS-3900	RF Amp. Cathode
R9	3900Ω			BTS-150	RF Amp. Grid
R10	150Ω			BTS-3300	AGC Network
R11	18kΩ			BTS-100	RF Amp. Screen-See Note 2
R12	3300Ω			BTS-100	RF Amp. Plate
R13	100Ω 20%			BTS-100	RF Amp. Plate Decoupling
R14	100kΩ			BTS-100	Series Test Point

RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R15	8200Ω				RF Coil Shunt
R16	100kΩ				Conv. Grid
R17	100kΩ				Osc. Grid
R18	10kΩ				Osc. Plate
R19	10kΩ 5%				Conv. Transformer Shunt
R20	2.2 Meg.				AGC Network
R21	33kΩ				AGC Network
R22	100Ω 20%				Decoupling
R23	39kΩ				Decoupling
R24	39kΩ				Decoupling
R25	39kΩ				Decoupling
R26	10kΩ				Decoupling
R27	10kΩ				Decoupling
R28	1000Ω 20%				Decoupling
R29	1000Ω 20%				Decoupling
R30	1000Ω 20%				Decoupling
R31	120Ω				AGC Network
R32	33kΩ				1st Video IF Amp. Cathode
R33	1000Ω 20%				1st Video IF Amp. Screen
R34	8200Ω 5%				1st Video IF Amp. Plate Decoupling
R35	1000Ω 20%				2nd Video IF Amp. Grid
R36	120Ω				AGC Network
R37	47kΩ				2nd Video IF Amp. Cathode
R38	12kΩ 5%				2nd Video IF Amp. Screen
R39	1000Ω 20%				2nd Video IF Amp. Plate
R40	470kΩ				2nd Video IF Amp. Decoupling
R41	82Ω				Sound IF Amp. Grid
R42	33kΩ				3rd Video IF Amp. Cathode
R43	3900Ω 5%				3rd Video IF Amp. Screen
R44	1000Ω 20%				3rd Video IF Amp. Plate Decoupling
R45	180Ω				4th Video IF Amp. Cathode
R46	1000Ω 20%				4th Video IF Amp. Screen
R47	33kΩ				4th Video IF Amp. Plate Decoupling
R48	8200Ω 5%				4th Video IF Amp. Plate
R49	1000Ω 20%				4th Video IF Amp. Plate Decoupling
R50	33kΩ 20%				AGC Network
R51	18kΩ				AGC Network
R52	18kΩ				AGC Network
R53	5600Ω 5%				Video Det. Diode Load
R54	220Ω				Video Amp. Cathode
R55	100kΩ 5%				Video Amp. Grid-See Note 4
R56	560kΩ				Video Amp. Cathode
R57	220Ω				Video Amp. Cathode
R58	4700Ω 5%				Video Amp. Plate
R59	18kΩ				Video Amp. Plate Decoupling-See Note 5
R60	6800Ω				Decoupling
R61	6800Ω 5%				Video Amp. Plate
R62	470kΩ				DC Res. Load
R63	4700Ω				Video Peaking
R64	390kΩ				AGC Network
R65	150kΩ 20%				AGC Network
R66	47kΩ				AGC Network
R67	56kΩ				Sync. Sep. Grid
R68	820kΩ				Picture Tube Grid
R69	150kΩ				Picture Tube Cathode
R70	82Ω				Sound IF Amp. Cathode
R71	1000Ω 20%				Sound IF Amp. Decoupling
R72	47kΩ				Voltage Divider
R73	12kΩ				Limiter Screen
R74	1000Ω 20%				Limiter Decoupling
R75	100kΩ 5%				Disc. Diode Load
R76	100kΩ 5%				Disc. Diode Load
R77	5.1Ω				Disc. Filament-Wire Wound
R78	22kΩ 20%				De-emphasis
R79	27kΩ				Tone Compensation
R80	27kΩ				Tone Compensation-See Note 5
R81	10 Meg. 20%				AF Amp. Grid
R82	330kΩ				AF Amp. Plate
R83	470kΩ 20%				Audio Output Grid
R84	100Ω 20%				Audio Output Cathode
R85	390Ω				Audio Output Cathode
R86	470Ω				Audio Output Decoupling
R87	47kΩ				Sync. Sep. Grid
R88	1.2 Meg.				Sync. Sep. Grid
R89	12kΩ				Volume Divider
R90	2200Ω 20%				Sync. Sep. Cathode
R91	18kΩ				Sync. Sep. Plate
R92					