

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a short between terminals C and D of L39.  
 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 half of the picture.  
 Turn the width selector switch to position 1 and adjust the width slug (B3) until the picture is of proper width. If sufficient width cannot be obtained, turn the width selector switch to position 2 or 3. In positions 2 and 3 the width coil (B3) is removed from the circuit.  
 Adjust the horizontal linearity slug (B4) until the picture is symmetrical from left to right. Slight re-adjustment of B2 may be necessary.  
 Turn the hold control to 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 synchronism. Adjust the horizontal lock trimmer (B5) until 7 to 9 bars are present just before pull in.

HORIZONTAL OSCILLATOR WAVEFORM ADJUSTMENTS

Remove the short from terminals C and D of L39.  
 Turn the horizontal hold control to maximum clockwise, and adjust the waveform adjustment (B6) 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 capacity probe of an oscilloscope to terminal C of L39 and chassis.  
 Adjust B6 until the broad and narrow peaks of the waveform are of equal height as shown in figure 6.  
 If necessary during this adjustment turn the hold control to keep the picture in synchronism.  
 Turn the hold control to maximum counter-clockwise and momentarily remove the signal.  
 Adjust B5 until 3 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.

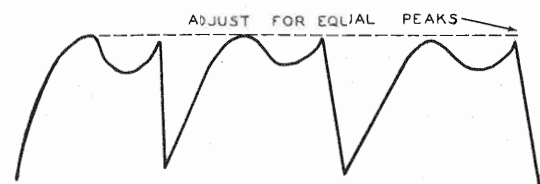
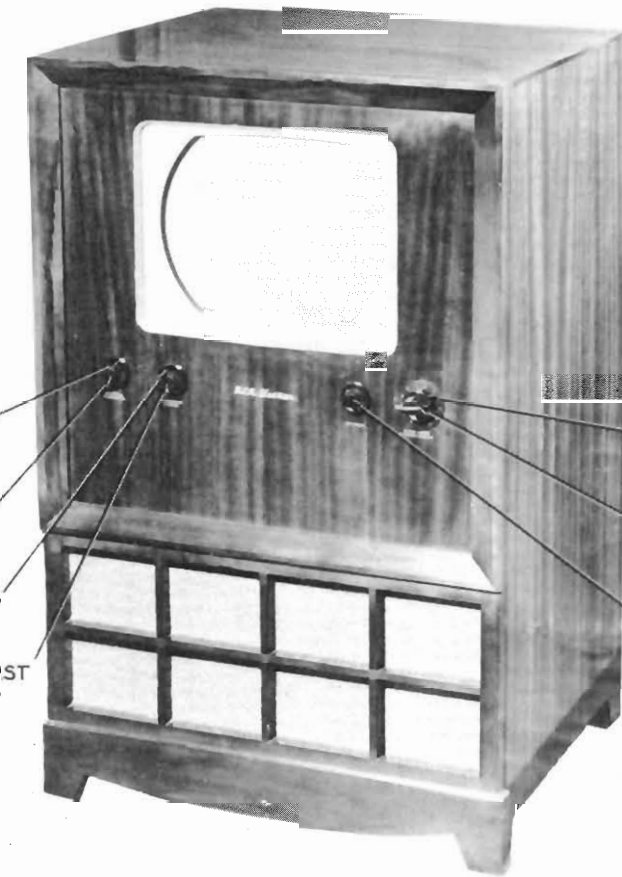


FIG. 6



RCA VICTOR MODEL 9TC245

TRADE NAME	RCA Victor Models T100 (Ch. KCS38), T120, T121 (Ch. KCS34C), TC124, TC125, TC127 (Ch. KCS34, B), 9T246 (Ch. KCS38), 9T256 (Ch. KCS38C), 9TC245 (Ch. KCS34B), 9TC247, 9TC249 (Ch. KCS34, B)	
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, New Jersey	
TYPE SET	Television Receiver	
TUBES	Twenty Four Twenty Five (Ch. KCS38C)	
POWER SUPPLY	110-120 Volts AC-60 Cycle	
TUNING RANGE	Channels 2 thru 13	RATING 1.9 Amp. @ 117 Volts AC

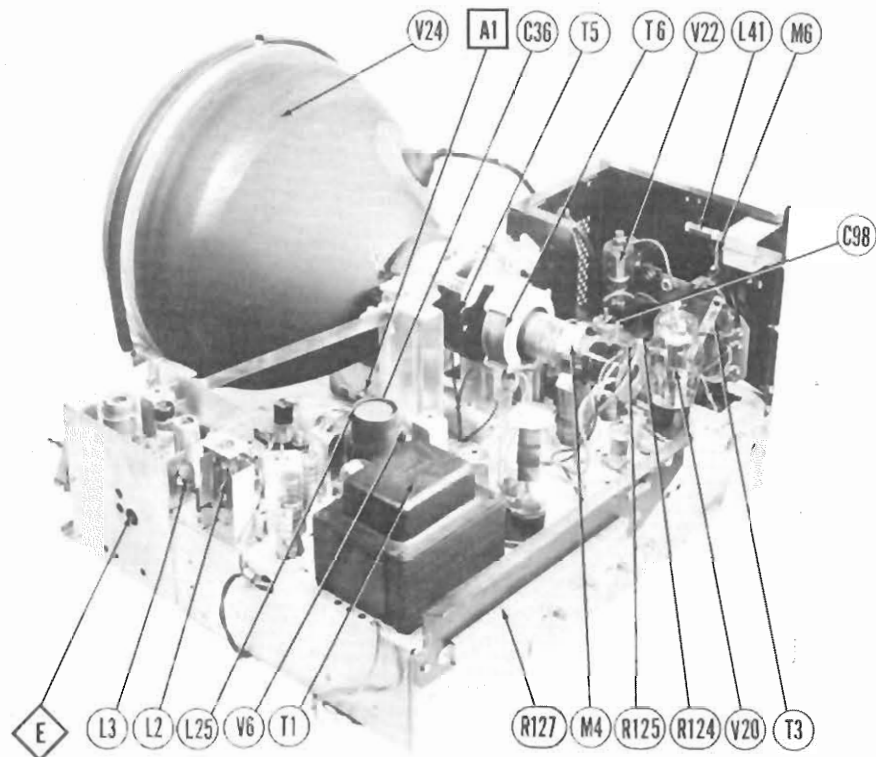
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HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

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RCA VICTOR MODELS T100, T120, T121, TC124, TC125, TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249



**CHASSIS-TOP VIEW  
DISASSEMBLY INSTRUCTIONS**

**MODEL 9T246**

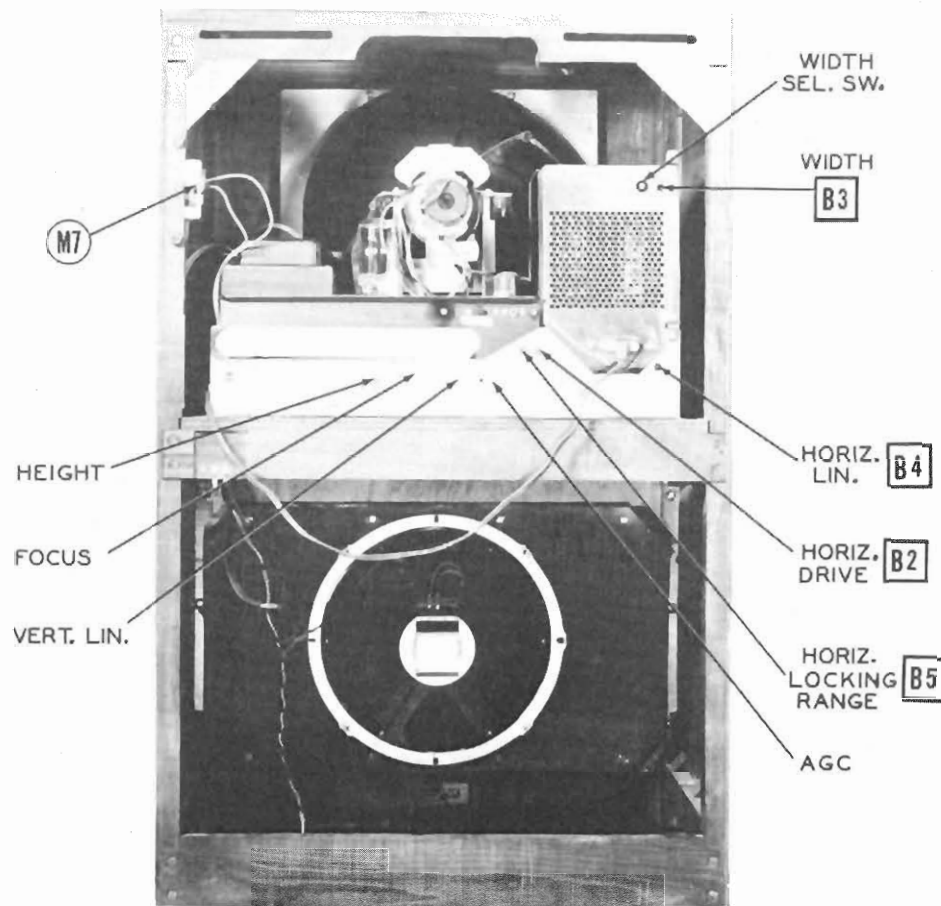
1. Remove seven push-on type control knobs.
2. Remove four 1/4 hex head bolts holding rear cover. Remove cover.
3. Disconnect antenna lead at plug in chassis.
4. Disconnect speaker plug.
5. Remove six 3/8" hex head bolts holding chassis. Remove chassis.
6. Remove four 1/32" hex head nuts holding speaker. Remove speaker.

**MODEL 9TC245**

1. Remove seven push-on type control knobs.
2. Remove eight screws holding rear cover. Remove cover.
3. Remove three screws holding power switch to cabinet.
4. Disconnect antenna lead at plug; connection in chassis.
5. Disconnect speaker at plug and remove cabinet lamp assembly. Push these leads up through hole in cabinet.
6. Remove five 3/8" hex head bolts holding chassis. Remove chassis.
7. Remove four 5/16" hex nuts holding speaker. Remove speaker.

**CRITICAL LEAD DRESSING**

1. The ground bus from pin 2 and the center shield of V11 socket should not be shorted or rerouted.
2. Do not change the dress of the filament leads or the bypass 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.
3. 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.
4. Picture IF coupling capacitors C31, C37, C40 and C47 should be up and away from the chassis and should be clear of the picture 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.
5. Leads to L31 and L30 must be as short as possible.
6. Dress peaking coils L33, L35 and L36 up and away from the chassis.
7. Dress C61 across tube pins 5 and 6 with leads not exceeding 3/8 inch.
8. Dress the blue lead from pin 5 of V13 down against the chassis.
9. Dress C52 and C53 up and away from the chassis.
10. 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.
11. Dress the green lead from pin 2 of V9 away from the chassis.
12. Dress R106, R105, R109, R112 and R107 up and away from the chassis.
13. The leads to the volume control should be dressed down against the chassis and away from V11 and V12.
14. Contact between the RF oscillator frequency adjustment screws and the oscillator coils or channel switch eyelets must be avoided.
15. Dress leads from L41 (width control coil) away from the transformer frame.



**CABINET-REAR VIEW**

**HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS**

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Turn the set on and tune in a TV station, preferably a test pattern.  
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Turn the hold control slowly clockwise and note the least number of bars present just before the picture pulls into synchronism. Adjust the horizontal lock trimmer (B5) until 7 to 9 bars are present just before pull in.

**HORIZONTAL OSCILLATOR WAVEFORM ADJUSTMENTS**

Remove the short from terminals C and D of L39.  
Turn the horizontal hold control to maximum clockwise, and adjust the waveform adjustment (B6) 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 L39 and chassis.  
Adjust B6 until the broad and narrow peaks of the waveform are of equal height as shown in figure 6.  
If necessary during this adjustment turn the hold control to keep the picture in synchronism.  
Adjust B5 until 3 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.

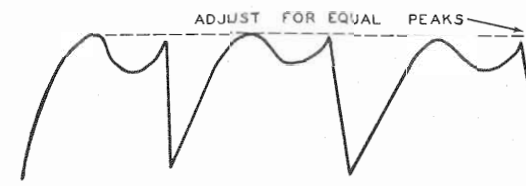


FIG. 6

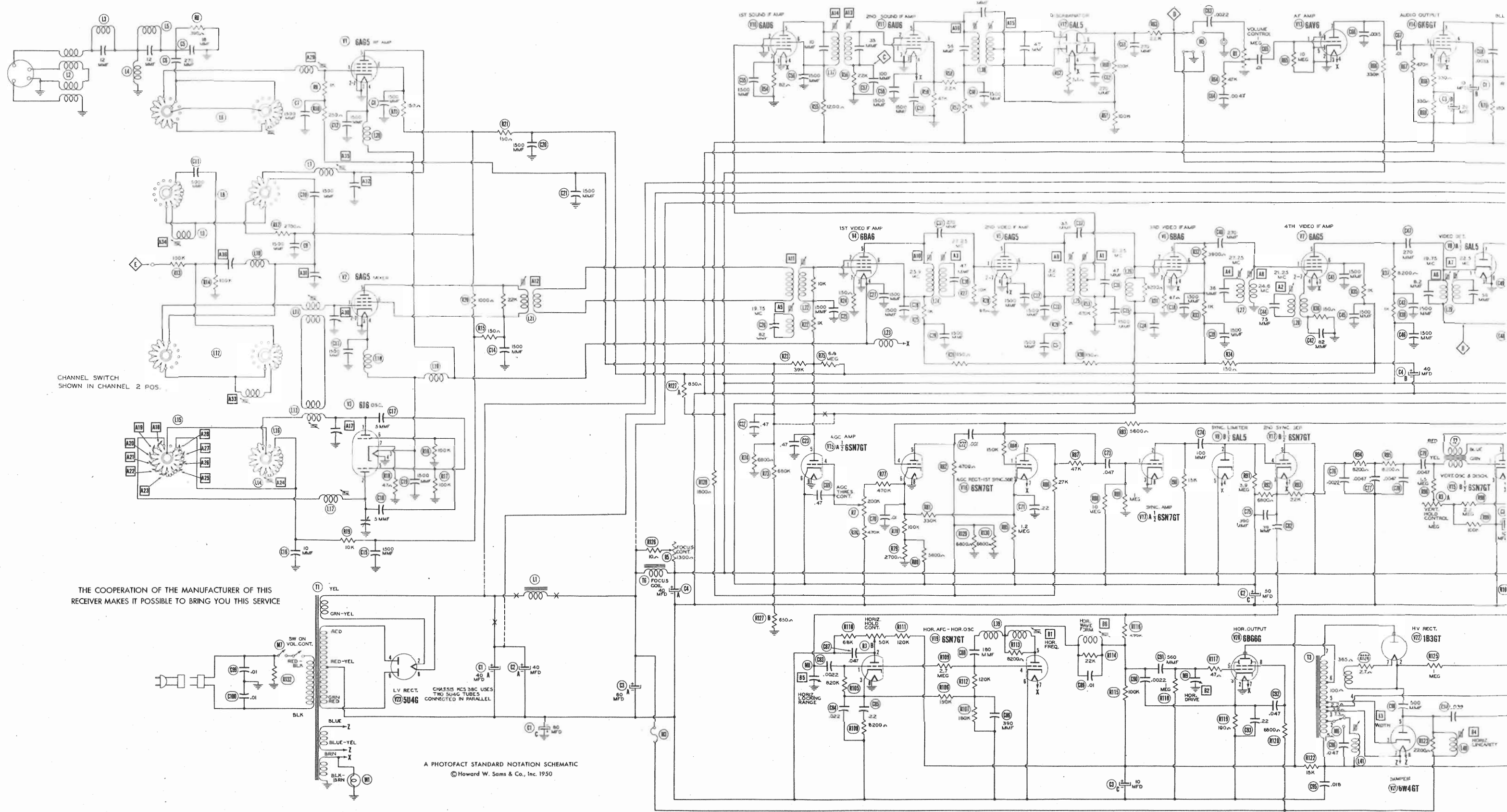
VERT. HOLD CONT.  
HORI. HOLD CONT.  
BRIG. CONT.  
CONT. CON.

TRADE NAME	RC 9T
MANUFACTURER	RC
TYPE SET	Tc
TUBES	Tv Tv
POWER SUPPLY	11C
TUNING RANGE	Cf

Alignment Instructions  
Disassembly Instructions  
Horiz. Sweep Circuit A  
Horiz. Oscillator Waveform  
Parts List and Description  
Photographs  
Cabinet-Rear View  
Capacitor Identification

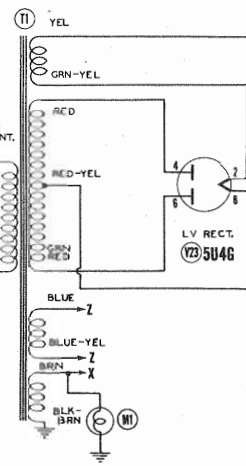
**HO**

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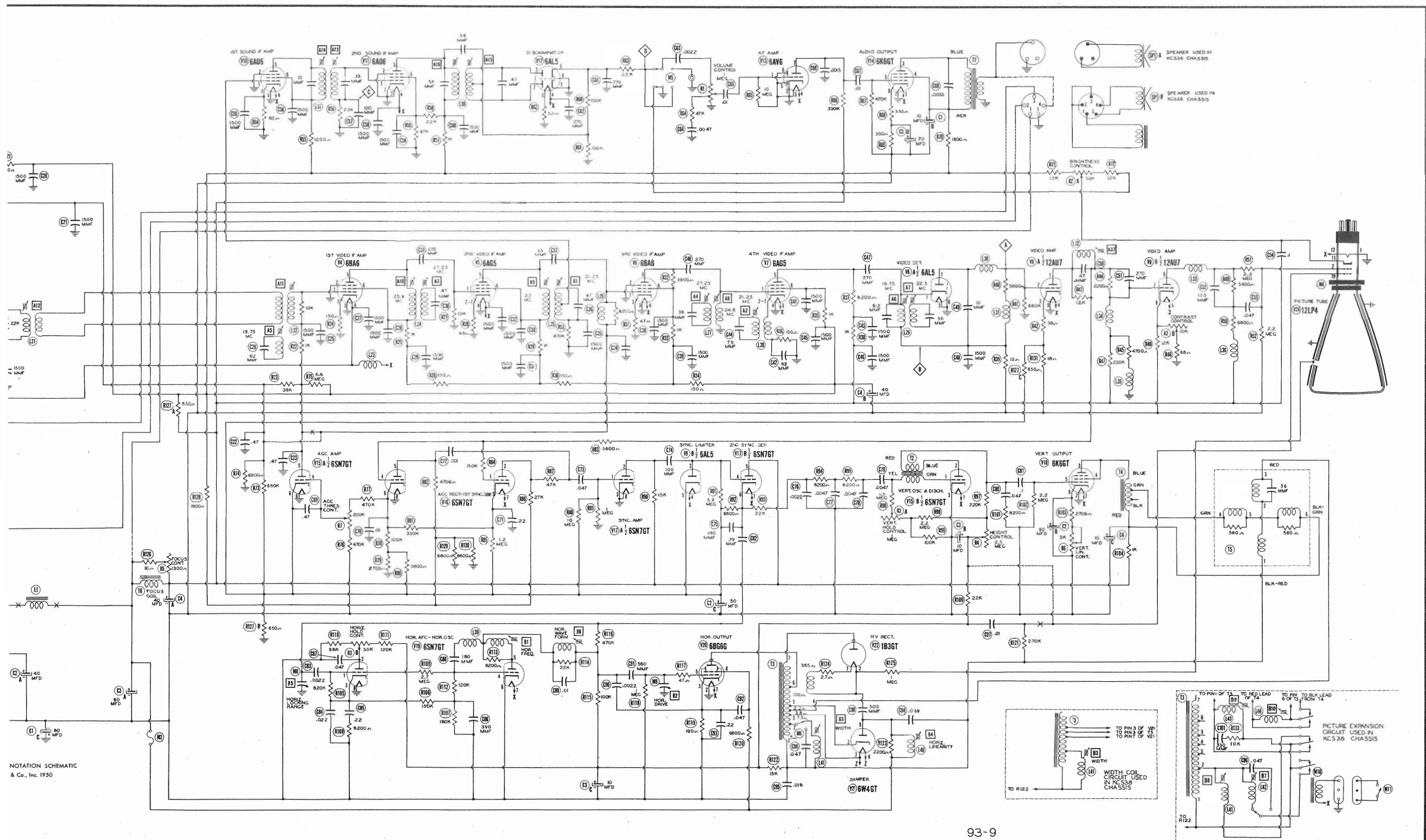


CHANNEL SWITCH SHOWN IN CHANNEL 2 POS.

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

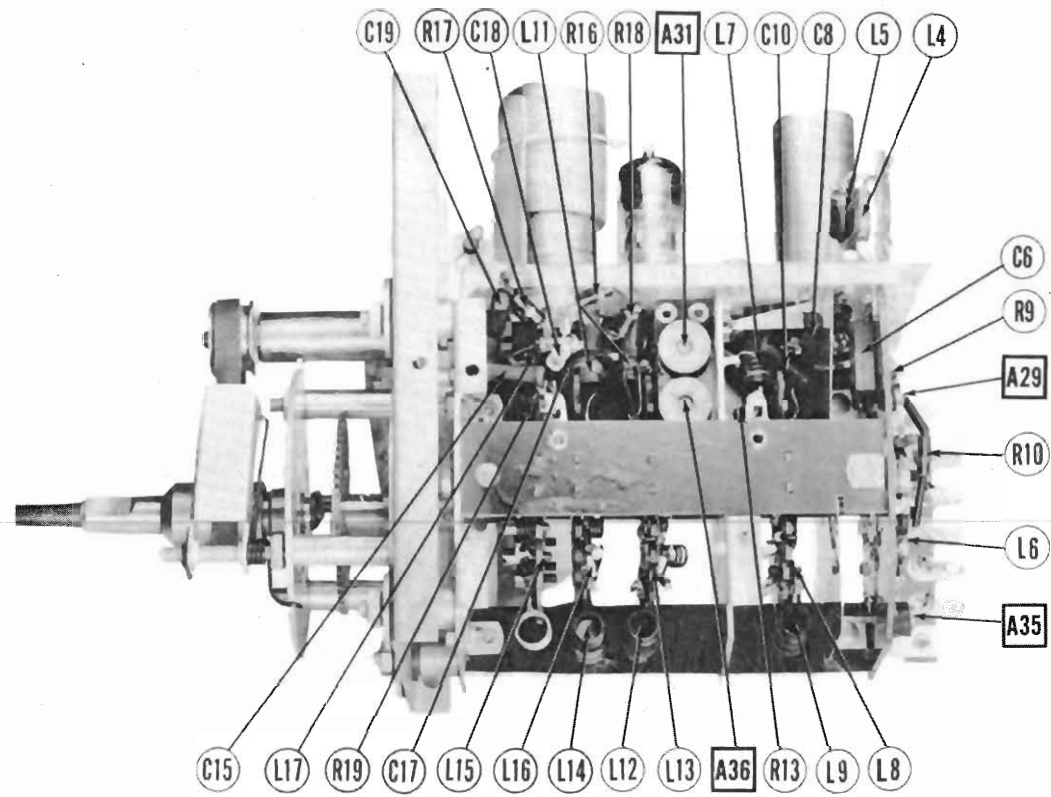


A PHOTOFAC STANDARD NOTATION SCHEMATIC  
© Howard W. Sams & Co., Inc. 1950

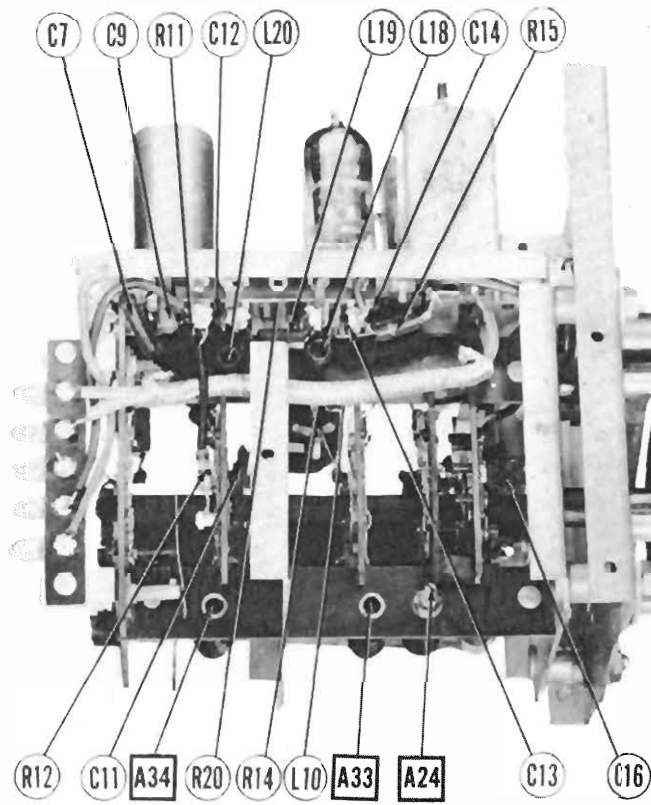


RCA VICTOR MODELS T100, T121, TC124,  
 TC125, TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249

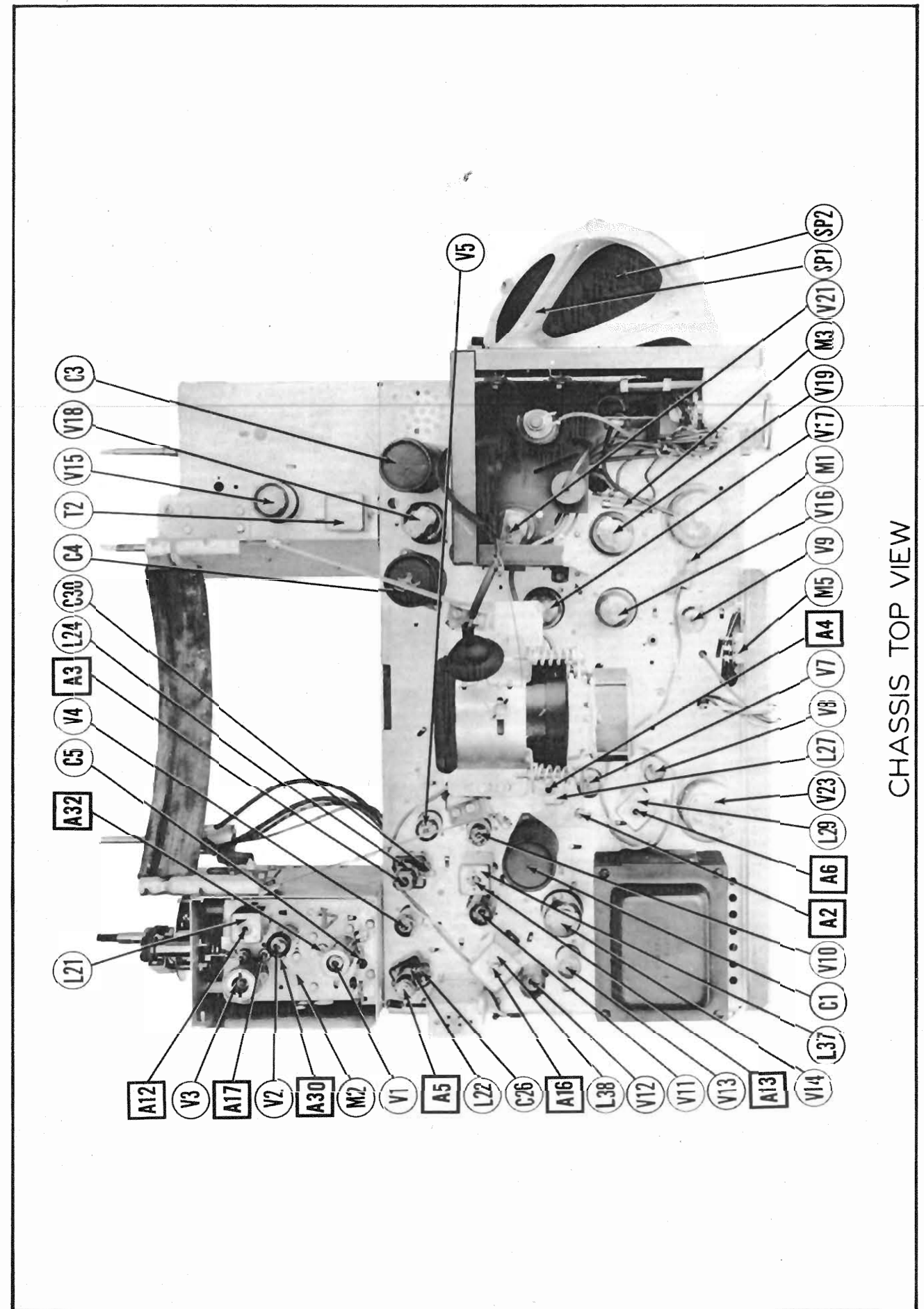
NOTATION SCHEMATIC  
 & Co., Inc. 1950



RF TUNER-RIGHT SIDE



RF TUNER-LEFT SIDE

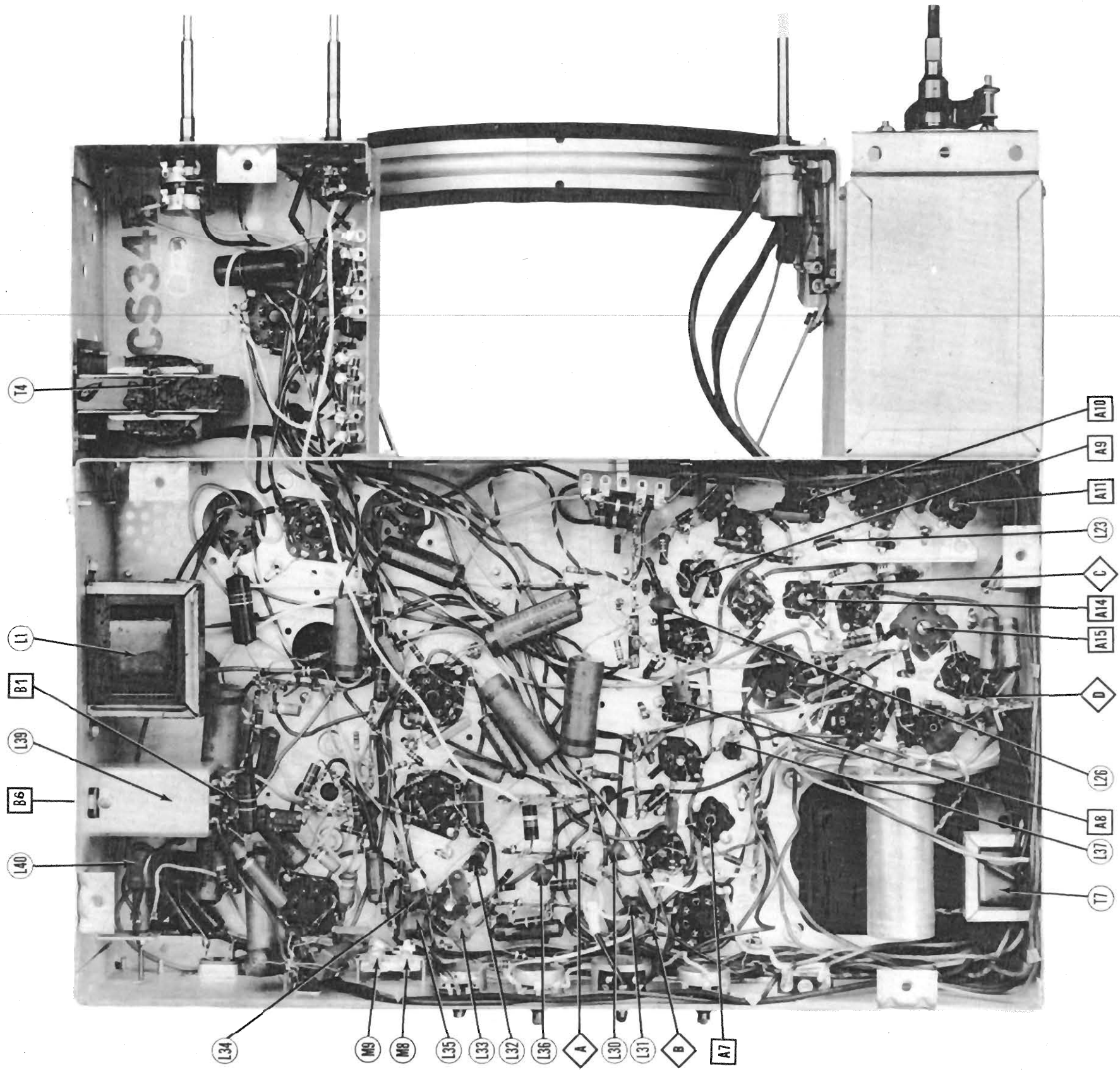


CHASSIS TOP VIEW

RCA VICTOR MODELS T100, T121, TC124, TC125,  
TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249

RCA VICTOR MODELS T100, T121, TC124, TC125,  
TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249

CHASSIS BOTTOM VIEW INDUCTOR AND ALIGNMENT IDENTIFICATION



VOLTAGE AND RESISTANCE MEASUREMENTS

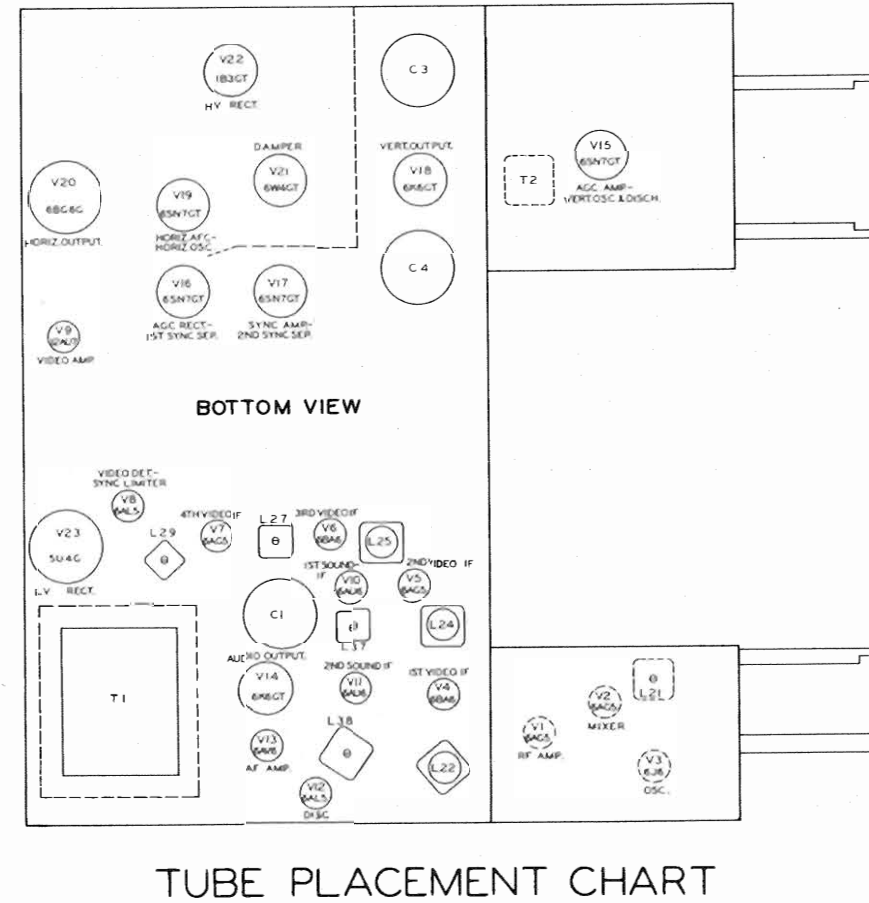
Item	Tube	RESISTANCE READINGS								
		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	8.3KΩ	0Ω	0Ω	.1Ω	13.6KΩ	11.3KΩ	0Ω		
V 2	6AG5	95KΩ	0Ω	0Ω	.1Ω	12.3KΩ	12.3KΩ	0Ω		
V 3	6J6	112KΩ	112KΩ	.1Ω	0Ω	100KΩ	100KΩ	47Ω		
V 4	6BA6	46KΩ	0Ω	0Ω	.1Ω	12.4KΩ	12.4KΩ	150Ω		
V 5	6AG5	10KΩ	0Ω	.1Ω	0Ω	12.3KΩ	12.3KΩ	68Ω		
V 6	6BA6	46KΩ	0Ω	0Ω	.1Ω	16KΩ	12KΩ	47Ω		
V 7	6AG5	.2Ω	150Ω	.1Ω	0Ω	110KΩ	12KΩ	150Ω		
V 8	6AL5	.1Ω	43.9Meg.	0Ω	.1Ω	40Ω	0Ω	4.5KΩ		
V 9	12AU7	7KΩ	680KΩ	400Ω	.1Ω	12.5KΩ	4.8KΩ	6.5KΩ	0Ω	
V 10	6AU6	470KΩ	0Ω	0Ω	.1Ω	12.2KΩ	12.2KΩ	82Ω		
V 11	6AU6	22KΩ	0Ω	0Ω	.1Ω	11.9KΩ	118KΩ	0Ω		
V 12	6AL5	0Ω	100KΩ	2.5Ω	.1Ω	200KΩ	0Ω	100KΩ		
V 13	6AV6	10 Meg.	0Ω	0Ω	.1Ω	0Ω	0Ω	1330KΩ		
V 14	6K6GT	Inf.	0Ω	13.2KΩ	12.7KΩ	470KΩ	Inf.	.1Ω	600Ω	
V 15	6SN7GT	2.5 Meg.	1.5 Meg.	0Ω	310KΩ	150KΩ	150KΩ	.1Ω	0Ω	
V 16	6SN7GT	150KΩ	129KΩ	290KΩ	12.3KΩ	17.5KΩ	65KΩ	.1Ω	0Ω	
V 17	6SN7GT	1 Meg.	115KΩ	0Ω	43.9Meg.	1100Ω	46.8KΩ	.1Ω	0Ω	
V 18	6K6GT	Inf.	0Ω	11.6KΩ	11.6KΩ	2.2 Meg.	4KΩ	.1Ω	0Ω	7.7KΩ
V 19	6SN7GT	400KΩ	65KΩ	330KΩ	300KΩ	240KΩ	40Ω	.1Ω	0Ω	2.7KΩ
V 20	6BG6G	Inf.	0Ω	100Ω	1.2KΩ	1 Meg.	16.8KΩ	250KΩ	1100Ω	TOP CAP
V 21	6W4GT	Inf.	Inf.	250KΩ	Inf.	185Ω	Inf.	Inf.	250KΩ	TOP CAP
V 22	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	1440Ω
V 23	5U4G	Inf.	4.8KΩ	Inf.	1.2KΩ	Inf.	1.9KΩ	Inf.	4.8KΩ	
V 24	12LP4	0Ω	1.1 Meg.	1300KΩ	13KΩ	10Ω	10Ω	10Ω	10Ω	

TV - PHONO SWITCH IN "TV" POSITION.  
 † MEASURED FROM PIN 8 OF V23.  
 ‡ MEASURED FROM PIN 5 OF V15.  
 § MEASURED FROM PIN 3 OF V15.  
 ¶ MEASURED FROM PIN 3 OF V21.

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.

Item	Tube	VOLTAGE READINGS								
		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-1.8VDC	0V.	0V.	6.3VAC	70VDC	105VDC	0V.		
V 2	6AG5	-1VDC	0V.	0V.	6.3VAC	95VDC	95VDC	0V.		
V 3	6J6	90VDC	90VDC	6.3VAC	0V.	8-3.2VDC	0V.			
V 4	6BA6	.2VDC	0V.	0V.	6.3VAC	90VDC	1.6VDC			
V 5	6AG5	0V.	.0VDC	6.3VAC	0V.	90VDC	.6VDC			
V 6	6BA6	.1VDC	0V.	0V.	6.3VAC	90VDC	.6VDC			
V 7	6AG5	0V.	1.1VDC	6.3VAC	0V.	150VDC	1.1VDC			
V 8	6AL5	.4V.	.5VDC	0V.	6.3VAC	40V.	4.2VDC			
V 9	12AU7	.90VDC	1.1VDC	.2VDC	6.3VAC	6.3VAC	100VDC	100VDC	0V.	
V 10	6AU6	-1.1VDC	0V.	0V.	6.3VAC	100VDC	100VDC	.5VDC		
V 11	6AU6	-2VDC	0V.	0V.	6.3VAC	100VDC	50VDC	0V.		
V 12	6AL5	0V.	-3VDC	1.1VAC	6.3VAC	.1VDC	0V.	-3VDC		
V 13	6AV6	-5VDC	0V.	0V.	6.3VAC	0V.	0V.	85VDC		
V 14	6K6GT	Inf.	0V.	.180VDC	190VDC	.4V.	0V.	6.3VAC	14VDC	
V 15	6SN7GT	4-20VDC	120VDC	.4V.	18VDC	55VDC	40V.	6.3VAC	0V.	
V 16	6SN7GT	23VDC	125VDC	32VDC	30VDC	70VDC	-23VDC	6.3VAC	0V.	
V 17	6SN7GT	0V.	140VDC	0V.	4-.5VDC	4270VDC	41VDC	6.3VAC	0V.	
V 18	6K6GT	.4V.	0V.	.4320VDC	320VDC	.4V.	.14VDC	6.3VAC	48VDC	
V 19	6SN7GT	.2.6VDC	.90VDC	.3.7VDC	.38VDC	175VDC	.4V.	6.3VAC	0V.	TOP CAP
V 20	6BG6G	.4V.	0V.	.10VDC	.4V.	.4V.	.10VDC	6.3VAC	270VDC	
V 21	6W4GT	0V.	0V.	300VDC	0V.	200VDC	Inf.	300VDC	300VDC	
V 22	1B3GT	* DO NOT MEASURE.								
V 23	5U4G	0V.	220VDC	0V.	355VAC	0V.	355VAC	0V.	220VDC	
V 24	12LP4	0V.	.9VDC	300VDC	90VDC	9.3VAC				

\* DO NOT MEASURE.  
 † TAKEN WITH VACUUM TUBE VOLTMETER.  
 ‡ DO NOT MEASURE.  
 § MEASURED FROM PIN 3 OF V15.  
 ¶ MEASURED FROM PIN 5 OF V8.



RCA VICTOR MODELS T100, T121, TC124, TC125, TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249

# ALIGNMENT INSTRUCTIONS

**ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT**  
 The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube (V19) from its socket.

## VIDEO IF ALIGNMENT

Remove the local oscillator tube (V3) from its socket to prevent erroneous indications. During video IF alignment the common lead of the VTVM is connected to approximately -120 volts. Avoid grounding or touching the VTVM case. Remove the AGC amplifier tube (V15) from its socket and connect a 250KΩ potentiometer between pins 5 and 6 of V15 socket. If the grid circuit of the third video IF amplifier (V6) is returned to the junction of R23 and C23, adjust the potentiometer to read -6.5 volts on VTVM connected between pin 5 of V15 and chassis. If the third video IF grid circuit is returned to the junction of R74 and C22, increase the bias to -12 volts.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
1. Direct	High side to an ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	21.25MC (Unmod.)	Any	DC Probe to Point A Common to Point B	A1, A2	Adjust for MINIMUM output.	
2. Direct	"	27.25MC (Unmod.)	"	"	A3, A4	"	
3. Direct	"	19.75MC (Unmod.)	"	"	A5, A6	"	
4. Direct	"	22.5MC (Unmod.)	"	"	A7	Adjust for maximum deflection.	
5. Direct	"	24.6MC (Unmod.)	"	"	A8	"	
6. Direct	"	22MC (Unmod.)	"	"	A9	"	
7. Direct	"	25.9MC (Unmod.)	"	"	A10	"	
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8. Direct	High side to an ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	25MC (10MC SWP)	22.05MC 24.75MC	Any	Vert. Amp. to Point X Low side to chassis.	A11, A12	Shunt 300Ω resistors across the primaries of L24, L25, L27 and L29 (A7 thru A10). Adjust for response curve similar to Fig 1 with markers as shown. Remove shunts.
9. Direct	"	"	22.1MC 25.0MC 25.75MC	"	"	"	Check for response curve similar to Fig 2. If necessary retouch A7 thru A10 for proper response. If large adjustment is required, repeat the trap adjustments.

## SOUND IF ALIGNMENT

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. .01MFD	High side to pin 1 (Grid) of 6AU6 (V10). Low side to chassis.	21.25MC (1MC SWP)	21.25MC	Any	Vert. Amp. thru 33KΩ to Point C Low side to chassis.	A13, A14	Adjust for maximum amplitude and symmetry as per Fig 3.
11. .01MFD	"	"	"	"	Vert. Amp. to Point D Low side to chassis.	A15, A16	Adjust A15 so 21.2MC occurs at the center of the diagonal line as per Fig 4. Adjust A16 for maximum amplitude and straightness of crossover lines.

## OSCILLATOR ALIGNMENT

The signal 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).

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
12. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	215.75MC (Unmod.)	13	DC Probe to Point D Common 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		A18	
		203.75MC	11		A19	
		197.75MC	10		A20	
		191.75MC	9		A21	
		185.75MC	8		A22	
		179.75MC	7		A23	
		87.75MC	6		A24	
		81.75MC	5		A25	
		71.75MC	4		A26	
		65.75MC	3		A27	
		59.75MC	2		A28	

# ALIGNMENT INSTRUCTIONS (CONT.)

## RF ALIGNMENT

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

Set the bias potentiometer to -3.5 volts.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS		
13. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	177MC (10MC SWP)	175.25MC 179.75MC	7	Vert. Amp. to Point E Low side to chassis.	A29, A30, A31, A32	Adjust for maximum amplitude and symmetry with markers above 90% as per Fig 5.		
14. "	"	207MC (10MC SWP)	205.25MC 209.75MC	12	"	A29	Adjust for maximum response and minimum slope of top part of curve.		
15. "	"	177MC (10MC SWP)	175.25MC	7	"	"	Check for response curve similar to Fig 5. If markers fall below 80% on any channel, make slight adjustment of A29, A30, A31, and A32 with channel switch set for that channel. Recheck all high band channels to see that they have not been seriously effected.		
			185MC (10MC SWP)	8					
			189MC (10MC SWP)	9					
			195MC (10MC SWP)	10					
			201MC (10MC SWP)	11					
			207MC (10MC SWP)	12					
			213MC (10MC SWP)	13					
			215.75MC						
			85MC (10MC SWP)	6				A33, A34, A35, A36	Adjust for response curve similar to Fig 5 with markers above 90%.
			17. "	"				79MC (10MC SWP)	77.25MC
69MC (10MC SWP)	4								
63MC (10MC SWP)	3								
57MC (10MC SWP)	2								
59.75MC									

## 4.5MC TRAP ADJUSTMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
18. .01MFD	High side to pin 2 (Grid) of 12AU7 (V9). Low side to chassis.	Not used	4.5MC (490% AM Mod.)	Any	Vert. Amp. to pin 2 (Grid) of picture tube. Low side to chassis.	A37	Adjust for minimum 400% response on scope.

## AGC THRESHOLD ADJUSTMENT

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

Turn the set on and tune in a TV station.

Turn the contrast control to maximum clockwise.

Adjust the AGC threshold control for maximum response without clipping the sync pulses.

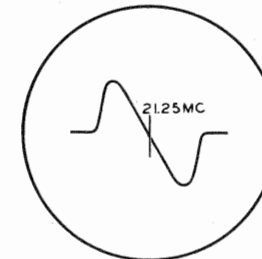


FIG. 4

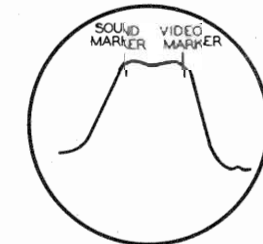


FIG. 5



FIG. 1

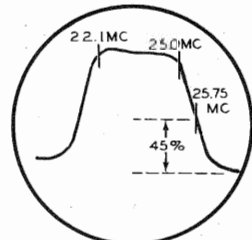


FIG. 2

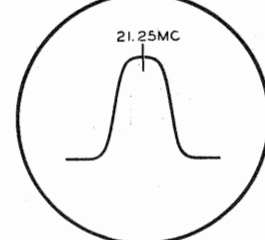
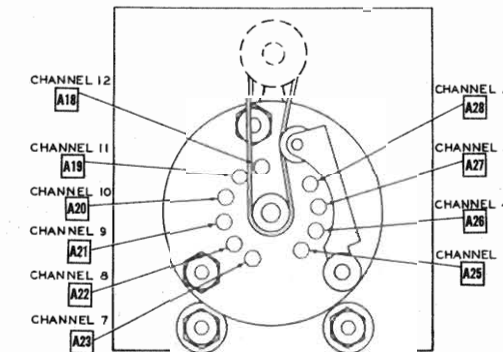


FIG. 3



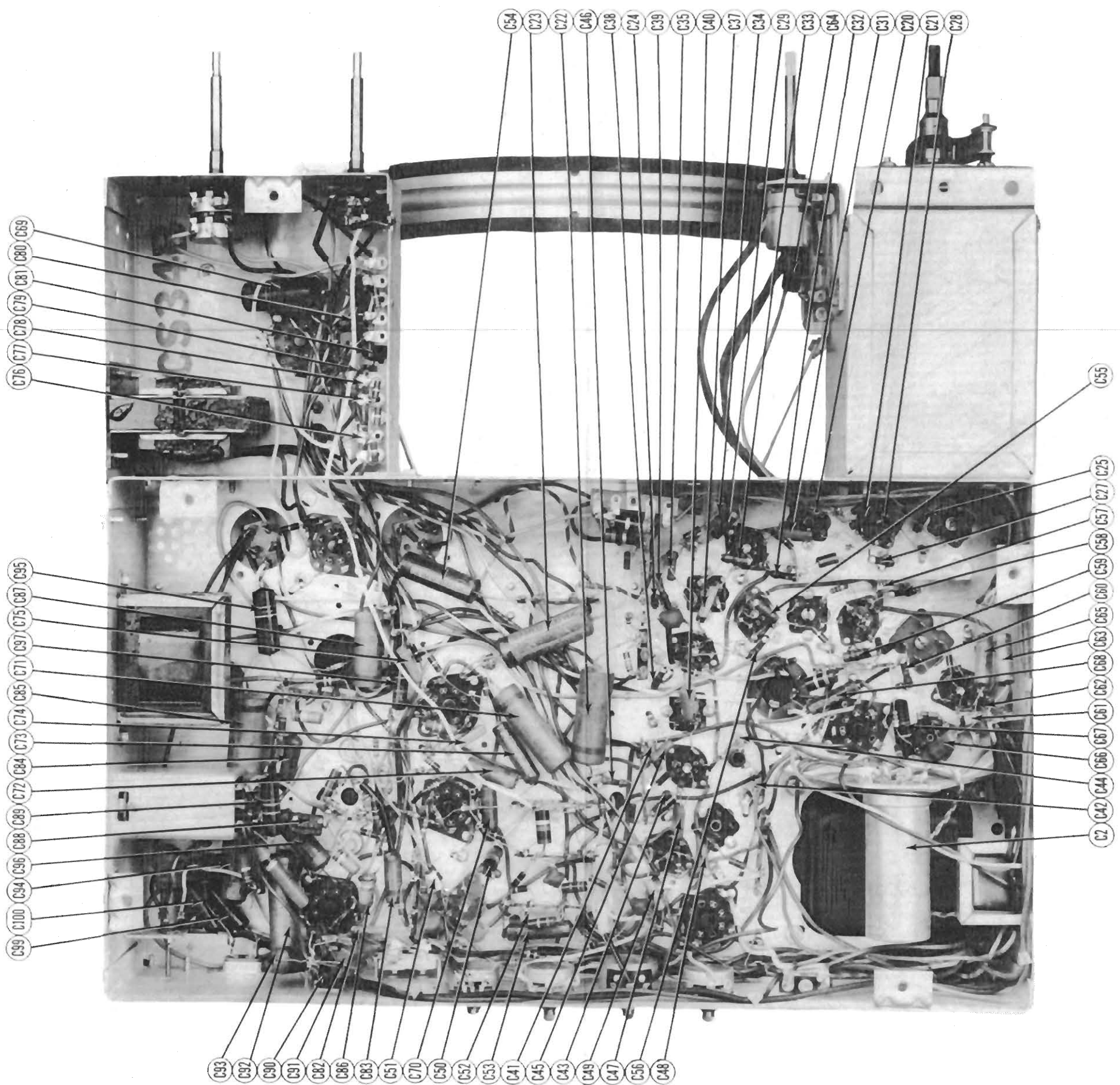
OSCILLATOR ALIGNMENT POINTS

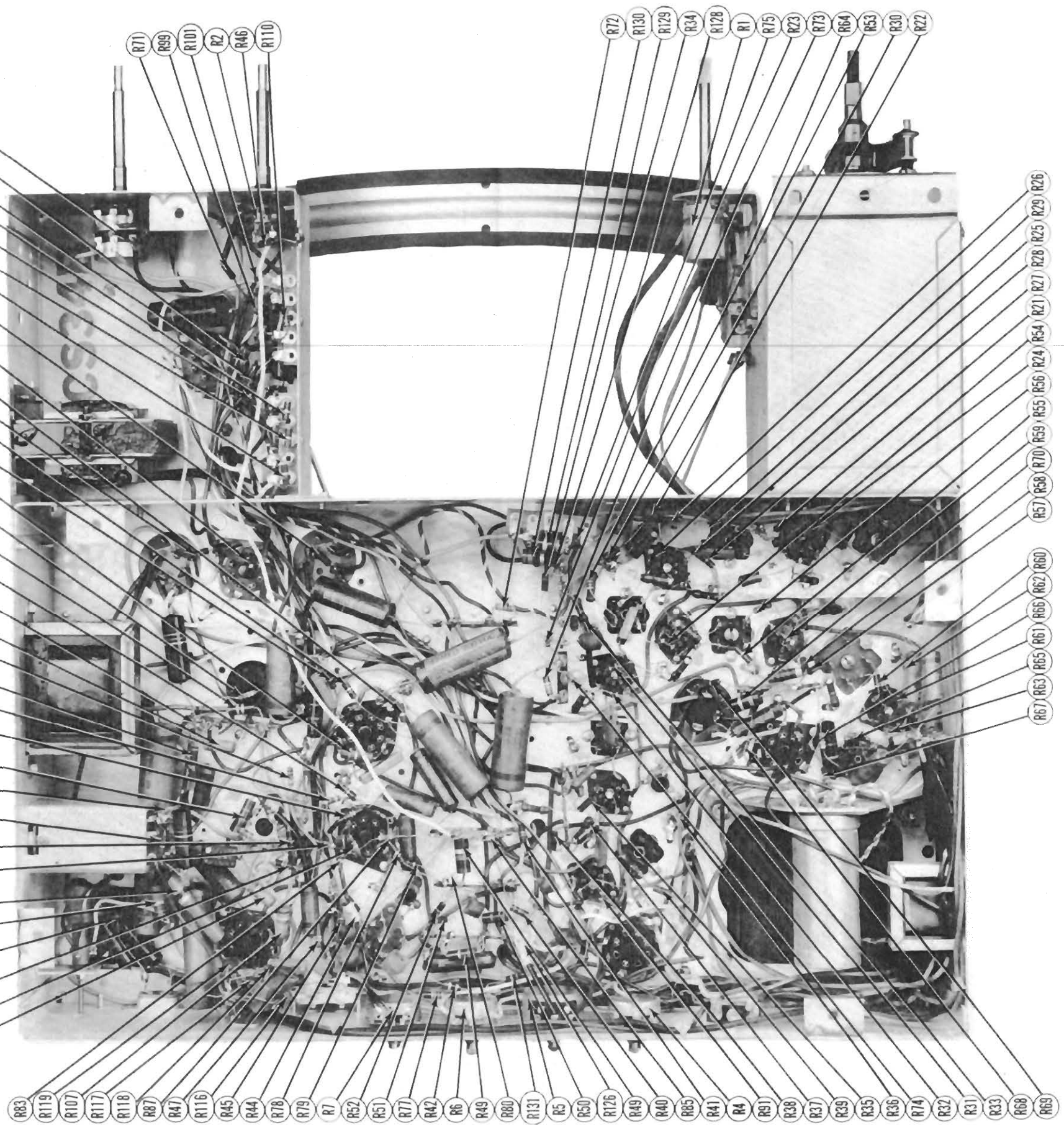
RCA VICTOR MODELS T100, T121, TC124, TC125, TC127, 91246, 91256, 91C245, 91C247, 91C249



RCA VICTOR MODELS T100, T121, TC124, TC125,  
TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249

CHASSIS BOTTOM VIEW CAPACITOR IDENTIFICATION





RCA VICTOR MODELS 1100, 1121, TC124, TC125,  
 TC127, 9T246, 9T256, 9TC245, 9TC247, 9TC249  
 WIAV WOLTOB SISSAHC IDENTIFICATION

PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (CONT.)

Table with columns: ITEM No., RATING CAP. VOLT, REPLACEMENT DATA (RCA, AEROVOX, CENTRALAB, ERIE, SPRAGUE), IDENTIFICATION CODES AND INSTALLATION NOTES.

RESISTORS (CONT.)

Table with columns: ITEM No., RATING RESISTANCE WATTS, REPLACEMENT DATA (RCA, IRC), IDENTIFICATION CODES.

RESISTORS (CONT.)

Table with columns: ITEM No., RATING RESISTANCE WATTS, REPLACEMENT DATA (RCA, IRC), IDENTIFICATION CODES.

Note 1: Not used in all models. Note 2: Some models use 10K resistor in this application. Note 3: Some models use 560K resistor in this application. Note 4: Chassis KCS38 uses 540K resistor in this application. Note 5: Not used in Chassis KCS38. Note 6: Not used in Chassis KCS38C. Note 7: Chassis KCS38C uses 82000 - 2 Watt resistor in this application. Note 8: Used in Chassis KCS38C only. Note 9: Chassis KCS38 uses 270K - 2 Watt resistor in this application. Note 10: Chassis KCS38C uses 470K resistor in this application. Note 11: Chassis KCS38C uses 4.7K resistor in this application. Note 12: Chassis KCS38C uses 22000 resistor in this application.

TRANSFORMER (POWER)

Table with columns: ITEM No., RATING (PRI, SEC 1, SEC 2, SEC 3), REPLACEMENT DATA (RCA, STANCOR, MERIT, CHICAGO), NOTES.

\* Use P-6134 for secondary #3. \* Used in Chassis KCS34, B, C and KCS38. # Used in Chassis KCS38C only.

TRANSFORMER (SWEEP CIRCUITS)

Table with columns: ITEM No., RATING (DC RESISTANCE, PRI, SEC), REPLACEMENT DATA (RCA, STANCOR, MERIT, CHICAGO), NOTES.

\* Used in Chassis KCS34, B, C and KCS38. # Used in Chassis KCS38C only.

TRANSFORMER (AUDIO OUTPUT)

Table with columns: ITEM No., RATING (IMPEDANCE, DC RES., PRI, SEC), REPLACEMENT DATA (RCA, STANCOR, MERIT, CHICAGO), INSTALLATION NOTES.

SPEAKER

Table with columns: ITEM No., RATINGS (FIELD RES., V. C. IMP.), REPLACEMENT DATA (RCA, VIKING, QUAM), NOTES.

FILTER CHOKE

Table with columns: ITEM No., RATINGS (TOTAL DIRECT CURRENT, D. C. RESISTANCE, INDUCTANCE), REPLACEMENT DATA (RCA, STANCOR, MERIT, CHICAGO), INSTALLATION NOTES.

CONTROLS

Table with columns: ITEM No., RATING RESISTANCE WATTS, REPLACEMENT DATA (RCA, IRC, CLAROSAT, CENTRALAB), INSTALLATION NOTES.

RESISTORS

Table with columns: ITEM No., RATING RESISTANCE WATTS, REPLACEMENT DATA (RCA, IRC), IDENTIFICATION CODES AND INSTALLATION NOTES.

RCA VICTOR MODELS T100, T121, T122A, T125, T127, 9T246, 9T256, 9T256, 9T245, 9T247, 9T249

**PARTS LIST AND DESCRIPTIONS (Continued)**

**COILS (RF-IF)**

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	RCA PART No.	MEISSNER PART No.	
L2	Ant. Trans.	.5Ω	.2Ω	73578		Complete with connector.
L3	IF Trap	.5Ω		73476		
L4	IF Trap Shunt	.5Ω		73475		
L5	IF Trap	.5Ω		73476		
L6	RF Grid Coil	0Ω		73633		Complete with Stator, Rotor, Coils and Segments.
L7	RF Plate Trimmer	0Ω		74110		
L8	RF Plate Coil	0Ω		73471		Complete with Stator, Rotor, Coils and Segments.
L9	RF Plate Coil	0Ω		73460		Channel 6 - Also part of 73471 (L8)
L10	RF Coupling	0Ω		73462		
L11	Mixer Grid Trimmer	0Ω		74109		
L12	Mixer Grid Coil	0Ω		73470		Complete with Stator, Rotor, Coils, and Segments.
L13	Osc. Plate Trimmer	0Ω		74109		
L14	Osc. Plate Coil	0Ω		73874		Channel 6
L15	Osc. Plate Coils	0Ω		73468		Front Section - Complete with Stator, Rotor, Coils, and Segments.
L16	Osc. Plate Coil	0Ω		73469		Rear Section - Complete with Stator, Rotor, Coils, and Segments.
L17	Osc. Plate Trimmer	0Ω		74108		Fine Tuning
L18	Fil. Choke	0Ω		73477		
L19	Fil. Choke	0Ω		73477		
L20	Fil. Choke	0Ω		73477		
L21	Conv. Trans.	.5Ω	0Ω	73448		
L22	1st Video IF	.2Ω	.8Ω	74589		
L23	Fil. Choke	0Ω		73477		
L24	2nd Video IF	.2Ω		74590		
L25	3rd Video IF	.2Ω	.1Ω	74591		
L26	Peaking	2.5Ω		74170		36 Microhenries - Wound on 8200Ω resistor.
L27	4th Video IF	.2Ω		74592		
L28	2L 25MC Sound Trap	0Ω		71778		
L29	5th Video IF	.1Ω	0Ω	73575		180 Microhenries - Red & White Identification Dot.
L30	Peaking	6.8Ω		74214		93 Microhenries - Red Identification Dot.
L31	Peaking	5Ω		71527		
L32	4.5MC Sound Trap	2.5Ω		73577		
L33	Peaking	6.8Ω		74214		180 Microhenries - Red & White Identification Dot.
L34	Peaking	7.2Ω		71526		250 Microhenries - Green Identification Dot.
L35	Peaking	7.2Ω		71526		250 Microhenries - Green Identification Dot.
L36	Peaking	7.2Ω		71526		250 Microhenries - Green Identification Dot.
L37	Sound IF Trans.	0Ω	0Ω	71424		
L38	Disc. Trans.	0Ω	0Ω	71427		
L39	Horiz. Osc. Trans.	120Ω	38Ω	73576		
L40	Horiz. Linearity	34Ω		71449		
L41	Width Coil	.2Ω		71429		
L42	Expanded Width Coil	.2Ω		71429		Chassis KCS38C
L43	Series Width Coil			74878		Chassis KCS38C
L44	Vert. Peaking			74877		Chassis KCS38C

**DIAL LIGHTS**

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					RCA PART No.		
M1	Bayonet	6 - 8	.200	White	11765		Type #51 - Not used in models T120, T121

**MISCELLANEOUS**

ITEM No.	PART NAME	RCA PART No.	NOTES
M2	RF Tuner	73600	Type GJV - .25A - 250V
M3	Fuse	74823	
M4	Ion Trap	74760	
M5	Switch	74147	TV-Phono
M6A	Switch	74872	Width Switch - Chassis KCS34, KCS34B, KCS34C
M6B	Switch	74157	Width Switch - Chassis KCS38C
M7	Switch	74157	Cabinet Interlock
M8	Trimmer	74593	Horiz. Locking
M9		74593	Horiz. Drive
M10	Relay	74873	Picture Expander - Chassis KCS38C
M11	Switch	74881	Remote Picture Control - Chassis KCS38C
	Knob	74000	Horiz. Hold - Chassis KCS34, B, C, KCS38, C (Dark)
	Knob	74892	Contrast - Chassis KCS34, B, C, KCS38, C (Dark)
	Knob	74635	Channel Selector - Chassis KCS38, C
	Knob	74885	Channel Selector - Chassis KCS34C
	Knob	73997	Channel Selector - Chassis KCS34, B (Tan)
	Knob	73996	Channel Selector - Chassis KCS34, B (Dark)
	Knob	74636	Fine Tuning - Chassis KCS38, C
	Knob	73994	Fine Tuning - Chassis KCS34, B, C (Dark)
	Knob	73995	Fine Tuning - Chassis KCS34, B (Tan)
	Knob	73998	Vert. Hold - Chassis KCS34C, KCS38, C
	Knob	73998	Brightness - Chassis KCS 34, B, C, KCS38, C (Dark)
	Knob	74002	Volume - Chassis KCS34, B, C, KCS38, C
	Knob	74003	Volume - Chassis KCS34, B (Tan)
	Knob	73999	Brightness - Chassis KCS34, B (Tan)
	Knob	73999	Vert. Hold - Chassis KCS34, B (Tan)
	Knob	74001	Contrast - Chassis KCS34, B (Tan)
	Knob	74001	Horiz. Hold

**PARTS LIST AND DESCRIPTIONS**

**TUBES (SYLVANIA or Equivalent)**

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		RCA PART No.	STANDARD REPLACEMENT		
V1	RF Amplifier	6AG5	6AG5	7BD	
V2	Mixer	6AG5	6AG5	7BD	
V3	Oscillator	6J6	6J6	7DF	
V4	1st Video IF Amp.	6BA6	6BA6	7BK	
V5	2nd Video IF Amp.	6AG5	6AG5	7BD	
V6	3rd Video IF Amp.	6BA6	6BA6	7BK	
V7	4th Video IF Amp.	6AG5	6AG5	7BD	
V8	Video Det. - Sync Limiter	6AL5	6AL5	6BT	
V9	Video Amplifier	12AU7	12AU7	9A	
V10	1st Sound IF Amp.	6AU6	6AU6	7BK	
V11	2nd Sound IF Amp.	6AU6	6AU6	7BK	
V12	Discriminator	6AL5	6AL5	6BT	
V13	AF Amplifier	6AV6	6AV6	7BT	
V14	Audio Output	6K6GT	6K6GT	7S	
V15	AGC Amp. - Vert. Osc. - Vert. Disch.	6SN7GT	6SN7GT	8BD	
V16	AGC Rect. - 1st Sync Separator	6SN7GT	6SN7GT	8BD	
V17	AGC Rect. - 2nd Sync Separator	6SN7GT	6SN7GT	8BD	
V18	Vert. Output	6K6GT	6K6GT	7S	
V19	Horiz. AFC - Horiz. Osc.	6SN7GT	6SN7GT	8BD	
V20	Horiz. Output	6BG6G	6BG6G	5BT	
V21	Damper	6W4GT	6W4GT	4CG	
V22	HV Rectifier	1B3GT	1B3GT	3C	
V23A	LV Rectifier	5U4G	5U4G	5T	Used in Model 9T256 only.
V23B	BLV Rectifier	5U4G	5U4G	5T	
V24A	Picture Tube	12LP4	12LP4	12D	Used in Chassis KCS38 and KCS38C only.
V24B	Picture Tube	10BP4	10BP4	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.	ERIE PART No.	SPRAGUE PART No.		
C1A	40	450	73582	AFH8216E				TVL-25	Filter
B	10	450							Output Decoupling
C	80	200							Filter
C2A	40	450	73583	AFH81810D				TVL-27	Filter
B	90	150							Vert. Output Cath. Bypass
C	50	150							Filter
C3A	60	450	73581	AFH122214D				TVL-68	Filter
B	10	450							Vert. Osc. Decoupling
C	10	450							Decoupling
D	20	150							Output Cathode Bypass
C4A	40	450	71432	AFH882J				TVL-30	Filter
B	40	450							Filter
C	10	450							Vert. Output Decoupling
C5	18	54207		CN18KNPO	D2-18	NPOK-18			Fixed Trimmer
C6	270	73091		GP270M	D6-271	GP2K-270			RF Coupling
C7	1500	71501		GP1500M	D6-152	GP2L-0015			AGC Filter
C8	1500	71501		GP1500M	D6-152	GP2L-0015			RF Screen Bypass
C9	1500	71501		GP1500M	D6-152	GP2L-0015			RF Bypass
C10	1500	71501		GP1500M	D6-152	GP2L-0015			RF Coupling
C11	5000	73473		BPD-5	D6-502	811-005	29C1		RF Coupling
C12	1500	71501		GP1500M	D6-152	GP2L-0015			RF Filament Bypass
C13	1500	71501		GP1500M	D6-152	GP2L-0015			Converter Filament Bypass
C14	1500	71501		GP1500M	D6-152	GP2L-0015			Converter Decoupling
C15	1500	71501		GP1500M	D6-152	GP2L-0015			RF Bypass
C16	10	53511		CN10DNPO	D2-10	NPOK-10			Fixed Trimmer
C17	5	74035		CN5CN470		N470K-5			Oscillator Feedback
C18	5	74035		CN5CN470		N470K-5			Oscillator Feedback
C19	1500	71501		GP1500M	D6-152	GP2L-0015			Oscillator Filament Bypass
C20	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C21	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		AGC Filter
C22	.47	73787		P288-47		TC-5			AGC Filter
C23	.47	73787		P288-47		TC-5			AGC Filter
C24	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		AGC Filter
C25	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		AGC Filter
C26	82			S182JNPO	D2-82	NPOM-82			Fixed Trimmer
C27	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		1st Video IF Filament Bypass
C28	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		1st Video IF Decoupling
C29	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C30	47			CN47JNPO	D2-47	NPOM-50			Fixed Trimmer
C31	270	73091		1468-00025	D6-271	GP2K-270	1FM-325		IF Coupling
C32	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		2nd Video IF Filament Bypass
C33	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		2nd Video IF Decoupling
C34	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C35	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		1st Sound IF Grid Filter
C36	47			CN47JNPO	D2-47	NPOM-47			Fixed Trimmer
C37	33			1468-00004	D6-33C	GP1K-33	1FM-44		IF Coupling
C38	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		3rd Video IF Decoupling
C39	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C40	270	73091		1468-00025	D6-271	GP2K-270	1FM-325		IF Coupling
C41	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		4th Video IF Screen Bypass
C42	82			GP100M	D2-82	GP1K-100	1FM-31		4th Video IF Cathode Bypass
C43	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		4th Video IF Plate Decoupling
C44	75			CN75JNPO	D2-75	NPOM-75			Fixed Trimmer
C45	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C46	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C47	270	73091		1468-00025	D6-271	GP2K-270	1FM-325		IF Coupling
C48	1500	71501		GP1500M	D6-152	GP2L-0015	1FM-215		RF Bypass
C49	10	72615		GP1500M	D6-100	GP1K-10	MS-41		Video Diode Filter
C50	47			S147JNPO	D2-47	NPOM			