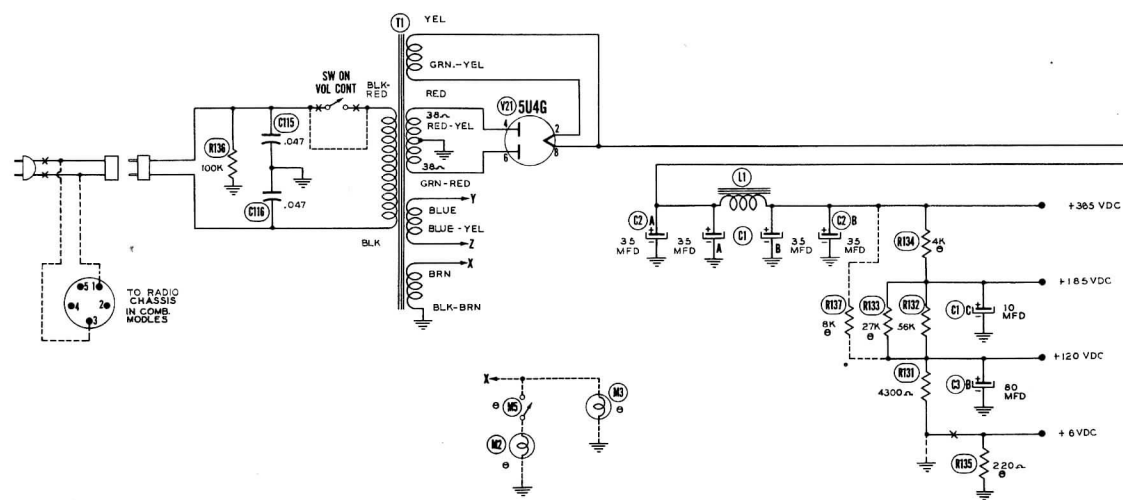


THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

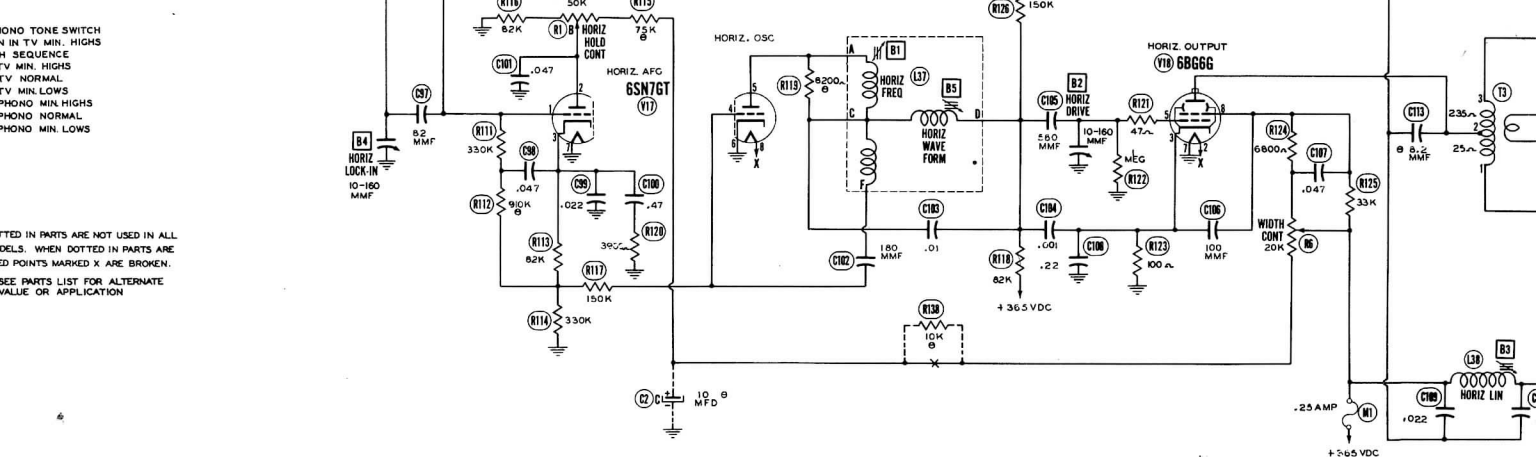
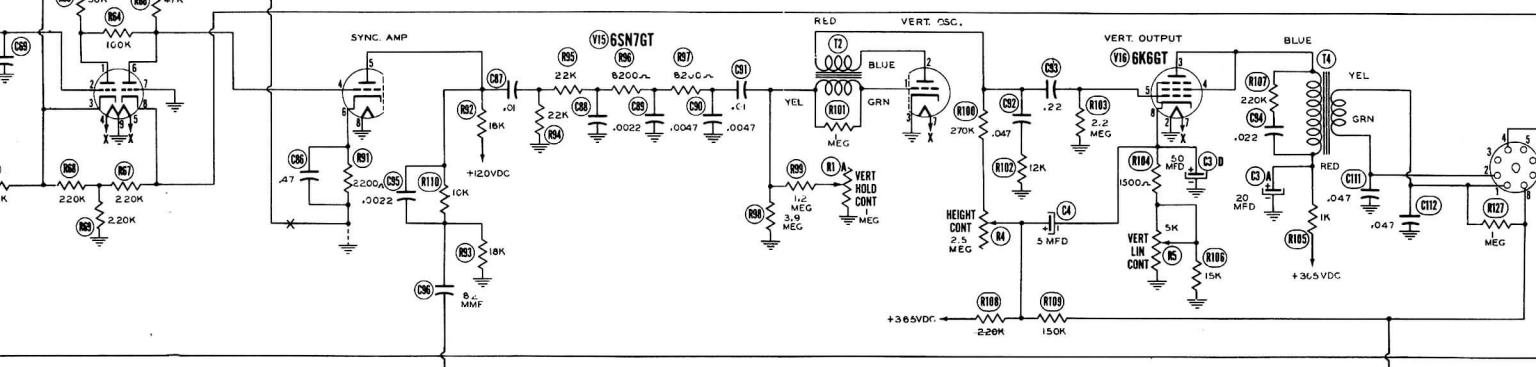
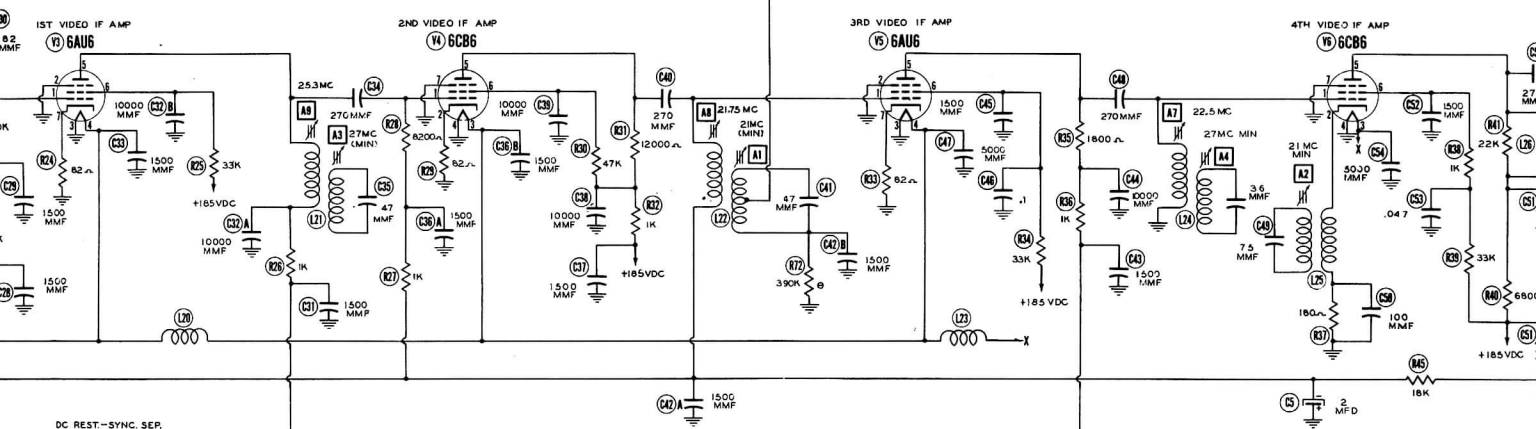
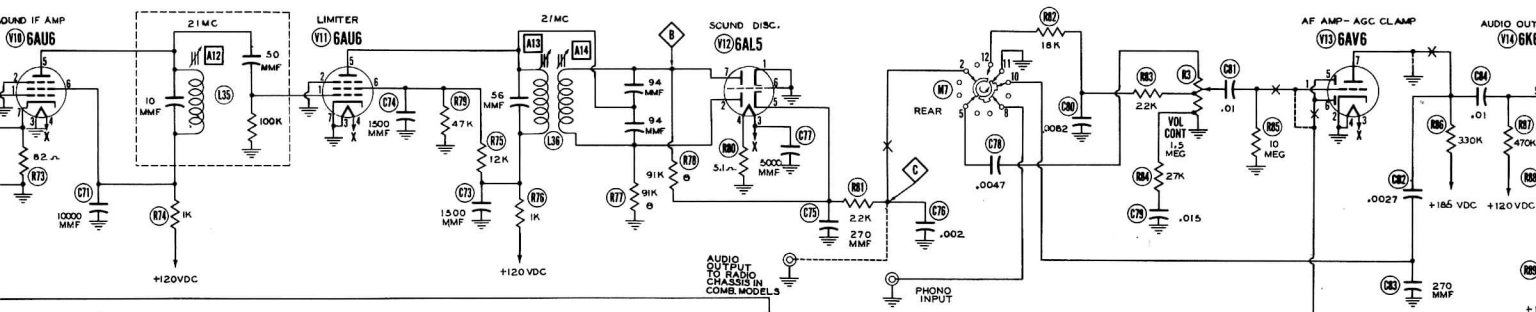
CHANNEL SW. SHOWN IN CHANNEL 2 POSITION



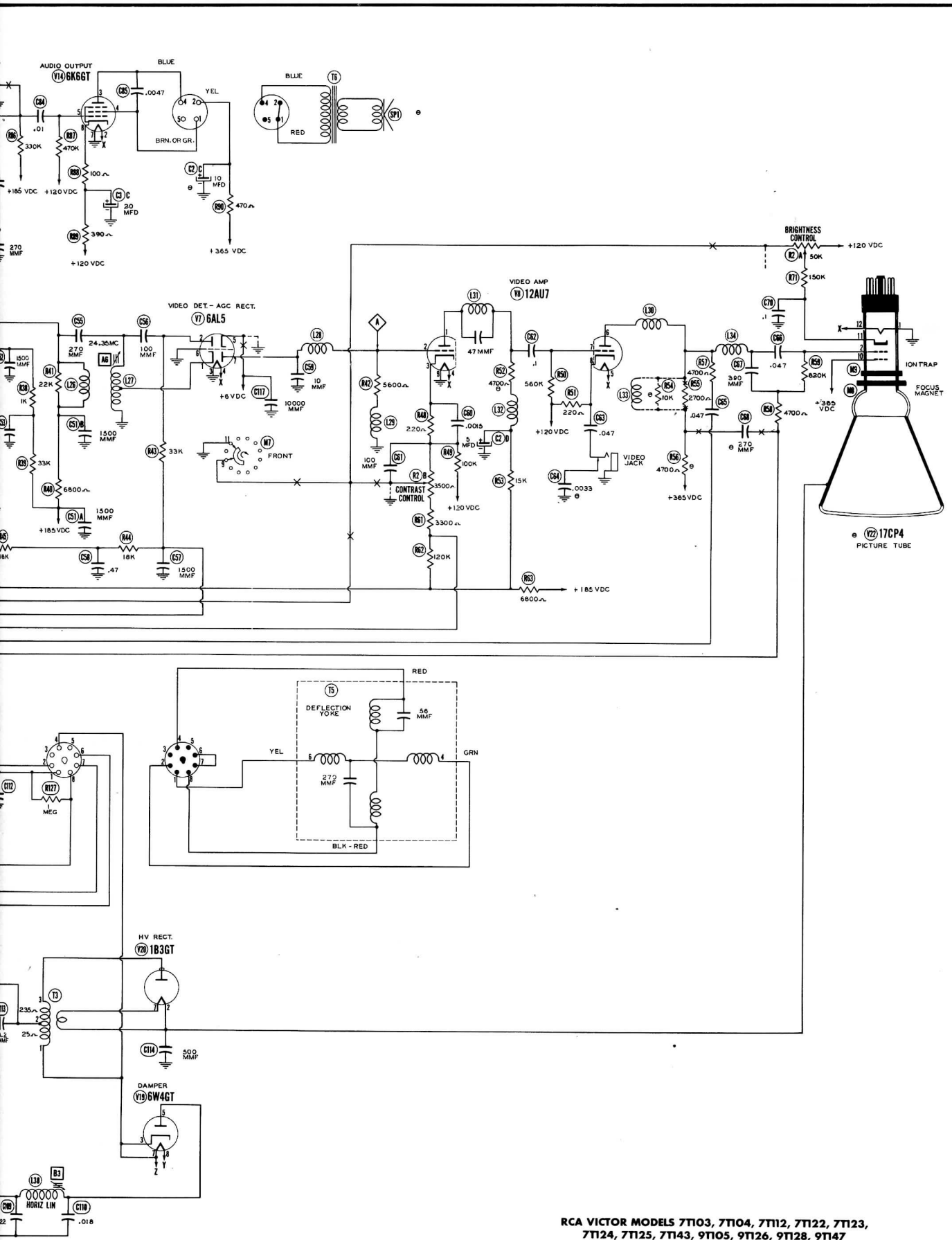
TV-PHONO TONE SWITCH SHOWN IN TV MIN. HI SWITCH SEQUENCE
 1-TV MIN. HIGHS
 2-TV NORMAL
 3-TV MIN. LOWS
 4-PHONO MIN. HIGHS
 5-PHONO NORMAL
 6-PHONO MIN. LOWS

DOTTED IN PARTS AND MODELS. WHEN USED POINTS MARKED
 SEE PARTS LIST VALUE OR APPL.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 ©Howard W. Sams & Co., Inc. 1951



NOTED IN PARTS ARE NOT USED IN ALL MODELS. WHEN DOTTED IN PARTS ARE IDENTIFIED POINTS MARKED X ARE BROKEN. SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

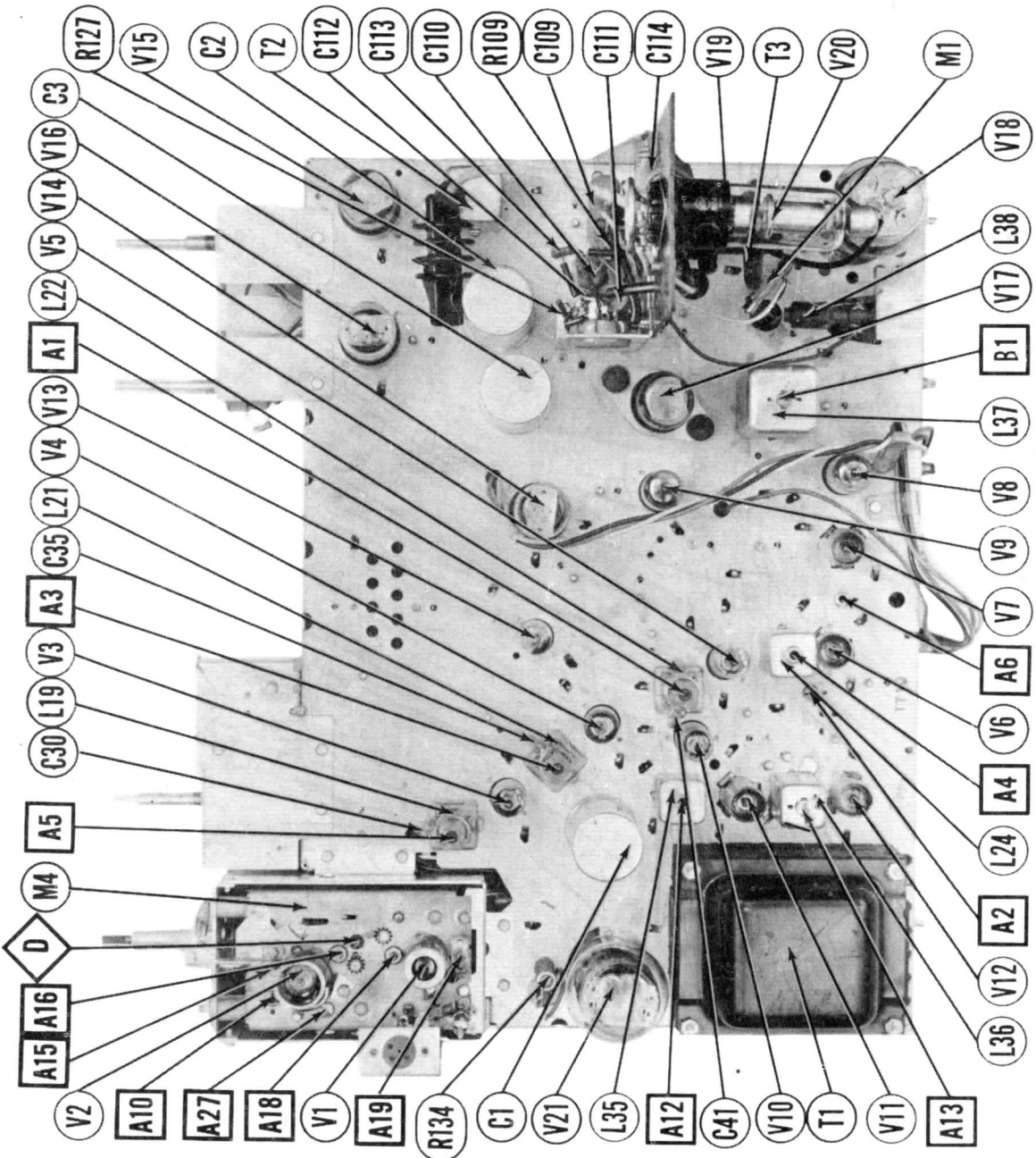


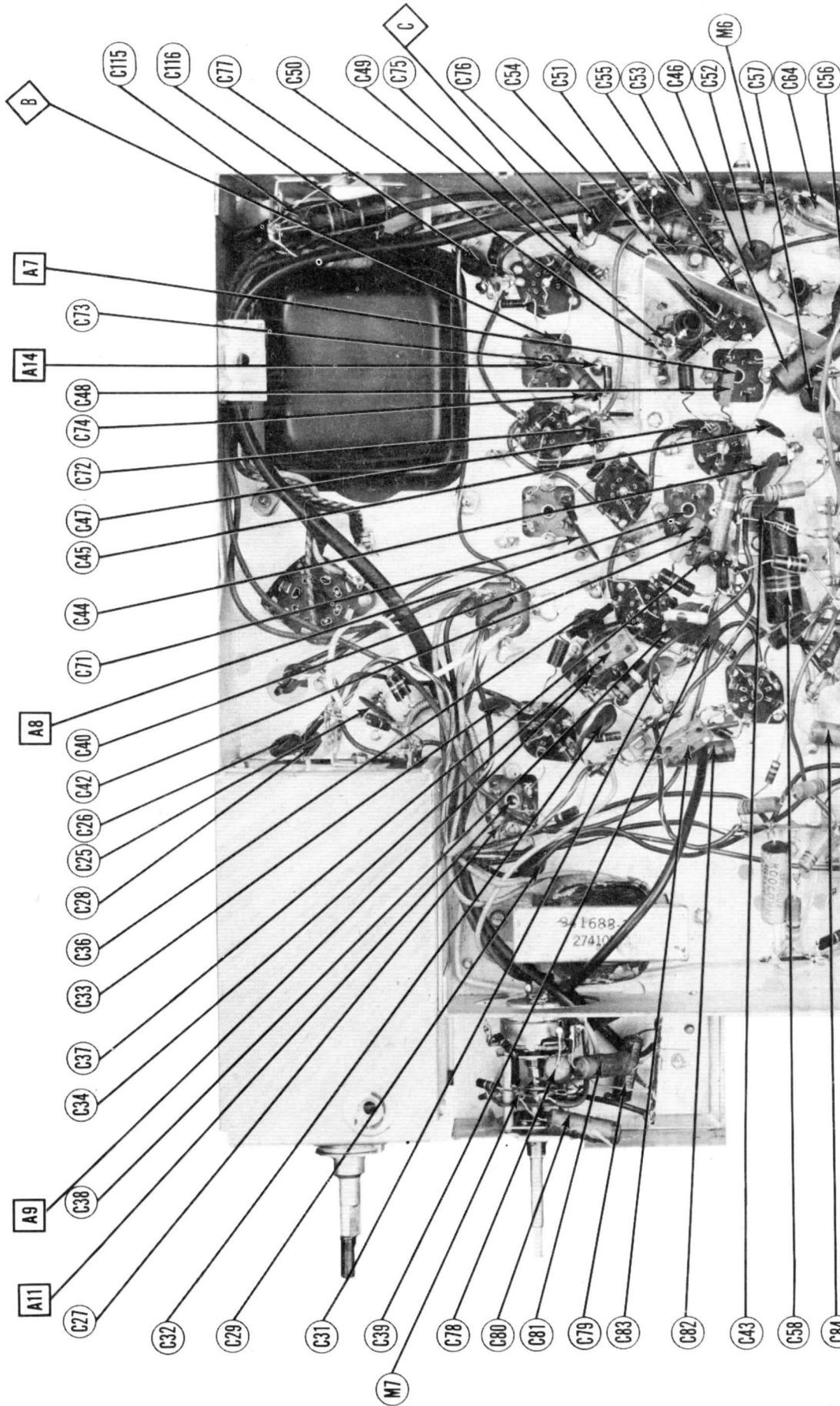
RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123,
 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123,
 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123,
 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

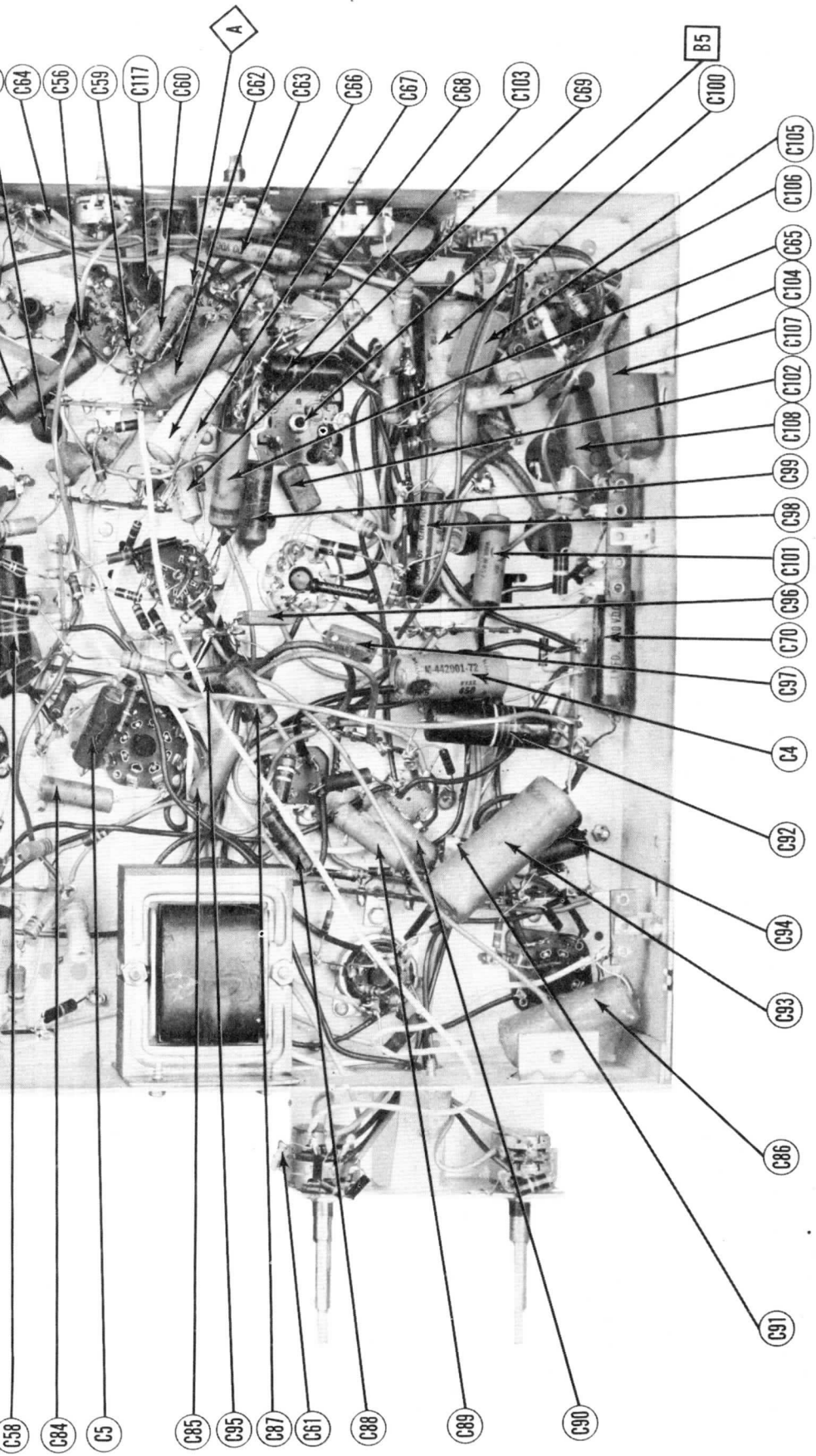
MAIN POL SISSVHD





RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123,
7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

CHASSIS BOTTOM VIEW IDENTIFICATION



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube, (V17), from its socket.

VIDEO IF ALIGNMENT

Remove the converter tube, (V2), from its socket and replace it with a 6J6 which has Pin 1 removed. This will disable the local oscillator and prevent the possibility of erroneous indications.

Connect the negative lead of a 3 volt battery to the junction of R45 and C5. Connect the positive lead to chassis.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Direct	High side to an ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	Not used	21MC (Unmod.)	Any	USE VTVM DC probe to Point \diamond Common to chassis.	A1, A2	Adjust for MINIMUM deflection.
2. "	"	"	27MC	"	"	A3, A4,	"
3. "	"	"	19.5MC	"	"	A5	"
4. "	"	"	24.35MC	"	"	A6	Adjust for maximum deflection.
5. "	"	"	22.5MC	"	"	A7	"
6. "	"	"	21.75MC	"	"	A8	"
7. "	"	"	25.3MC	"	"	A9	"
8. "	"	24MC (10MC SWP)	21.95MC 24.8MC	"	Vert. amp. to Point \diamond Low side to chassis.	A10, A11	Shunt primaries of L21, L22, L24 and L27, (A6 thru A9), with 300 Ω carbon resistors. Adjust A10 and A 11 for response curve similar to figure 1.
9. "	"	"	21.85MC 24.75MC 25.5MC 26.25MC	"	"	"	Remove the shunting resistors. Check for response curve similar to figure 2. If necessary retouch A6 thru A 11 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
10. .01MFD	High side to Pin 1 (Grid) of 6CB6, (V4). Low side to chassis.	21MC (Unmod.)	Any	DC probe thru 1 meg to Point \diamond . Common to chassis.	A12, A13	Adjust for maximum deflection.
11. "	"	"	"	DC probe to Point \diamond . Common to chassis.	A14	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
10. .01MFD	High side to Pin 1 (Grid) of 6CB6, (V4). Low side to chassis.	21MC (450KC SWP)	21MC	Any	Vert. amp. to Point \diamond . Low side to chassis.	A12, A13 A14	Adjust A14 so 21MC occurs at center of crossover lines as per figure 3. Adjust A12 and A13 for maximum amplitude and straightness of crossover lines. Continue with step 12.

RF TUNER ALIGNMENT

Remove the dummy converter tube and replace the original 6J6 in its socket. Connect the negative lead of a 3.5 volt supply from a battery to terminal 3 of the RF unit terminal board, connect the positive lead to chassis. Disconnect the link between L18 and L19. Connect a 39 Ω carbon resistor across terminal 1 and 2 on the terminal board, and loosely couple the link wire to terminal 2.

Detune A10 fully clockwise, (all the way out).

Detune A27 fully counter clockwise, (in later production L16 is fixed and cannot be tuned).

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	ADJUST	REMARKS
12. Two 120 Ω carbon resistors	Across antenna terminals with 120 Ω in each lead.	Not used	215.75MC	13	VTVM DC probe to Point \diamond Common to chassis.	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
13. "	"	183MC (10MC SWP)	181.25MC 185.75MC	8	SCOPE Vert. amp. to Point \diamond . Low side to chassis.	A16, A17, A18, A19	Adjust for response curve with bandwidth shown in figure 4.
14. "	"	Not used	87.75MC	6	VTVM DC probe to Point \diamond . Common to chassis.	A20	Adjust for zero as in step 12.
15. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	SCOPE Vert. amp. to Point \diamond . Low side to chassis.	A21, A22, A23	Adjust for response curve similar to figure 4.

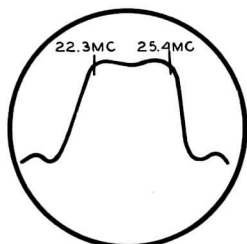


FIG. 1

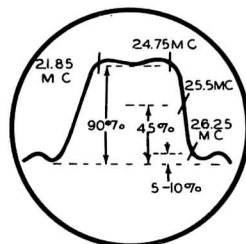


FIG. 2

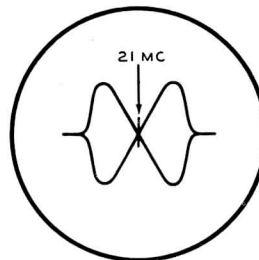


FIG. 3

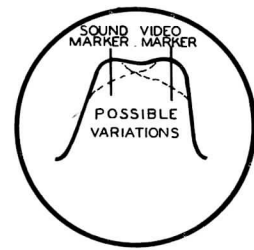
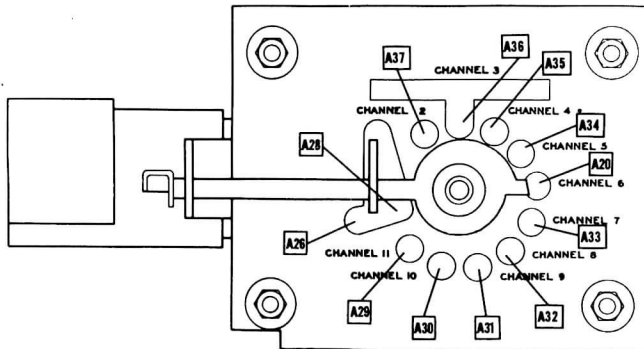


FIG. 4

ALIGNMENT INSTRUCTIONS (CONT.)

16.	Connect VTVM to Point D and adjust A24 for -3 volt reading. Recheck channel 6 response and if necessary retouch A21, A22 and A23 for proper response. Repeat the retouching adjustments until proper channel 6 response is obtained with - 3 volts at Point D .							
17.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	Not used	185. 75MC	8	VTVM DC probe to Point \diamond . Common to chassis.	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
18.	"	"	183MC (10MC SWP)	181. 25MC 185. 75MC	8	SCOPE Vert. amp. to Point \diamond . Low side to chassis.		Readjust A16, A17 and A19 for response curve and bandwidth shown in figure 4.
19.	"	"	213MC (10MC SWP)	211. 25MC 215. 75MC	13	"	A25	Adjust for maximum amplitude midway between the markers. Then over shoot the adjustment by tuning the slug in the same direction slightly more than required for maximum amplitude. Readjust A19 for maximum amplitude.
20.	"	"	Not used	215. 75MC	13	VTVM DC probe to Point \diamond . Common to chassis.	A26	Adjust for zero reading as in step 17. Then over shoot the adjustment as in step 19. Adjust A15 to reset the oscillator to proper frequency.
21.	"	"	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 \diamond . Low side to chassis.		Check all high band channels for proper response with markers above 80%. If markers do not appear within 80% repeat step 13. If A19 is adjusted the adjustment should be over-shot a small amount and compensated for by adjusting A25 for maximum amplitude between the markers. If the valley in the top of the curves on the high channels seems excessive, adjust A27 to flatten the curve. In later productions A27 may be fixed and not required adjustment.
22.	Check the oscillator frequency for the high band channels. If the oscillator is off frequency, over shoot the adjustment of A15 and compensate for it by adjusting A26 for zero voltage at Point C .							
23.	Repeat step 14.							
24.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	85MC (10MC SWP)	83. 25MC 87. 75MC	6	SCOPE Vert. amp. to Point \diamond . Low side to chassis.		Check for response curve similar to figure 4. If necessary retouch A21, A22 and A23 for proper response.
25.	Check the voltage at Point D . If necessary adjust A24 for -3 volt reading. If A24 is adjusted turn channel selector to channel 8 and readjust A16 for proper response.							
26.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	85MC (10MC SWP)	83. 25MC 87. 75MC	6	SCOPE Vert. amp. to Point \diamond . Low side to chassis.		Check all low band channels for response similar to figure 4 and the injection voltage at Point D which should be - 3 volts. Also check channels 7 thru 13.
27.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	Not used	215. 75MC	13	VTVM DC probe to Point \diamond . Common to chassis.		If necessary adjust A15 for zero voltage as in step 17.
28.	"	"	"	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.
29.	Turn channel switch to channel 8 and adjust A24 for proper response . When A24 is properly adjusted the response curve will be slightly wider with a slightly deeper valley in the center. Check all channels for: (1) proper response, (2) oscillator injection voltage at point D , and (3) oscillator frequency. Make slight touch up adjustments, if necessary. If A16 and A24 are changed considerably repeat step 28.							
30.	Disconnect the 39Ω resistor from terminals I&2 on terminal strip and reconnect the link. Repeat steps 8 and 9 of VIDEO IF ALIGNMENT.							



OSCILLATOR ALIGNMENT POINTS

RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

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	.3VDC	0V	6.3VAC	160VDC	90VDC	0V		
V 2	6J6	65VDC	180VDC	0V	6.3VAC	-1.7VDC	8-2.8VDC	0V		
V 3	6AU6	-3VDC	0V	0V	6.3VAC	105VDC	115VDC	.6VDC		
V 4	6CB6	-3VDC	.6VDC	6.3VAC	0V	100VDC	95VDC	0V		
V 5	6AU6	-3VDC	0V	0V	6.3VAC	90VDC	115VDC	.6VDC		
V 6	6CB6	0V	1.6VDC	6.3VAC	0V	140VDC	120VDC	0V		
V 7	6AL5	0V	-2VDC	0V	6.3VAC	6VDC	0V	-4VDC		
V 8	12AU7	100VDC	-4VDC	6VDC	6.3VAC	1155VDC	40V	4.3VDC	0V	
V 9	12AU7	2.6VDC	-2VDC	1.4VDC	6.3VAC	6.3VAC	2.5VDC	0V	1.7VDC	0V
V 10	6AU6	-1VDC	0V	0V	6.3VAC	110VDC	110VDC	.6VDC		
V 11	6AU6	-8VDC	0V	0V	6.3VAC	110VDC	75VDC	0V		
V 12	6AL5	0V	-5VDC	6.3VAC	1.2VAC	0V	0V	-5VDC		
V 13	6AV6	-1.4VDC	0V	6.3VAC	0V	-3VDC	-3VDC	70VDC		
V 14	6K6GT	12VDC	6.3VAC	215VDC	225VDC	40V	0V	0V	15VDC	
V 15	6SN7GT	-15VDC	380VDC	0V	2.5VDC	55VDC	4.6VDC	6.3VAC	0V	
V 16	6K6GT	0V	0V	355VDC	355VDC	330VDC	40VDC	50VDC	30VDC	
V 17	6SN7GT	0V	0V	330VDC	330VDC	0V	0V	6.3VAC	30VDC	
V 18	6BG6G	-2.6VDC	120VDC	-25VDC	-70VDC	205VDC	0V	0V	6.3VAC	Top Cap
V 19	6W4GT	365VDC	6.3VAC	8VDC	0V	-15VDC	-20VDC	0V	310VDC	*
V 20	1B3GT	* DO NOT MEASURE	0V	600VDC	0V	360VDC	0V	600VDC	600VDC	
V 21	5U4G	0V	370VDC	0V	360VAC	0V	360VAC	0V	370VDC	
V 22	17CP4	0V	.5VDC	365VDC	115VDC	6.3VAC	6.3VAC			

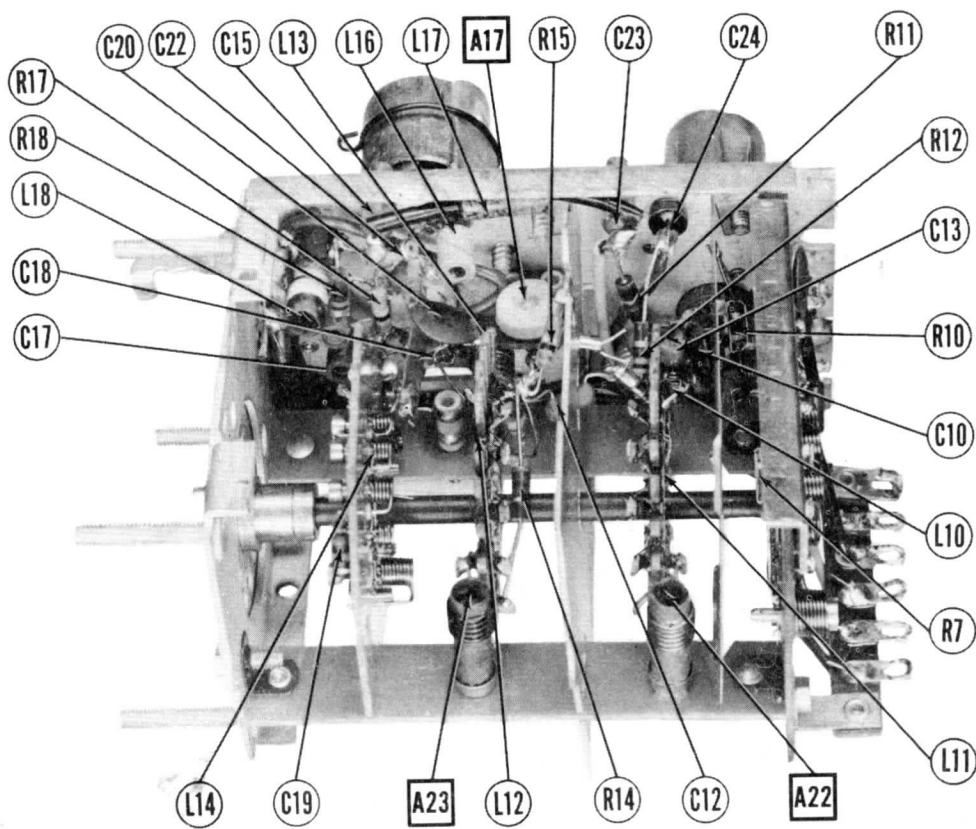
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	400KΩ	27Ω	0Ω	.1Ω	17.4KΩ	32KΩ	0Ω		
V 2	6J6	420KΩ	10KΩ	0Ω	.1Ω	110KΩ	100KΩ	0Ω		
V 3	6AU6	225KΩ	0Ω	0Ω	.1Ω	112KΩ	137KΩ	82Ω		
V 4	6CB6	230KΩ	82Ω	.1Ω	0Ω	117KΩ	150KΩ	0Ω		
V 5	6AU6	225KΩ	0Ω	0Ω	.1Ω	114KΩ	137KΩ	82Ω		
V 6	6CB6	.1Ω	180Ω	.1Ω	0Ω	111KΩ	138KΩ	0Ω		
V 7	6AL5	.1Ω	240KΩ	0Ω	.1Ω	220Ω	0Ω	5.6KΩ		
V 8	12AU7	130KΩ	5.6KΩ	3.7KΩ	.1Ω	.1Ω	17.5KΩ	4560KΩ	220Ω	0Ω
V 9	12AU7	50KΩ	56KΩ	440KΩ	.1Ω	.1Ω	45KΩ	0Ω	440KΩ	0Ω
V 10	6AU6	390KΩ	0Ω	0Ω	.1Ω	.1KΩ	11KΩ	82Ω		
V 11	6AU6	100KΩ	0Ω	0Ω	.1Ω	.1KΩ	11KΩ	0Ω		
V 12	6AL5	0Ω	91KΩ	.1Ω	2.2Ω	180KΩ	0Ω	91KΩ		
V 13	6AV6	10Meg	0Ω	.1Ω	0Ω	360KΩ	360KΩ	1335 KΩ		
V 14	6K6GT	390Ω	.1Ω	1885Ω	1515Ω	4470KΩ	Inf.	0Ω	490Ω	
V 15	6SN7GT	1Meg	#2.5Meg	0Ω	45KΩ	12KΩ	2.2KΩ	.1Ω	0Ω	
V 16	6K6GT	Inf.	0Ω	11.4KΩ	11.4KΩ	2.2Meg	0Ω	.1Ω	1.5KΩ	
V 17	6SN7GT	1.6Meg	148KΩ	410KΩ	480KΩ	182KΩ	0Ω	0Ω	1Ω	Top Cap
V 18	6BG6G	145Ω	.1Ω	100Ω	Inf.	1Meg	3.9KΩ	0Ω	15KΩ	#238f.
V 19	6W4GT	Inf.	Inf.	350KΩ	Inf.	180Ω	Inf.	#0Ω	.4Ω	Top Cap
V 20	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	#280Ω
V 21	5U4G	Inf.	13KΩ	Inf.	38Ω	Inf.	38Ω	Inf.	13KΩ	
V 22	17CP4	0Ω	1.3Meg	145Ω	153KΩ	.1Ω				

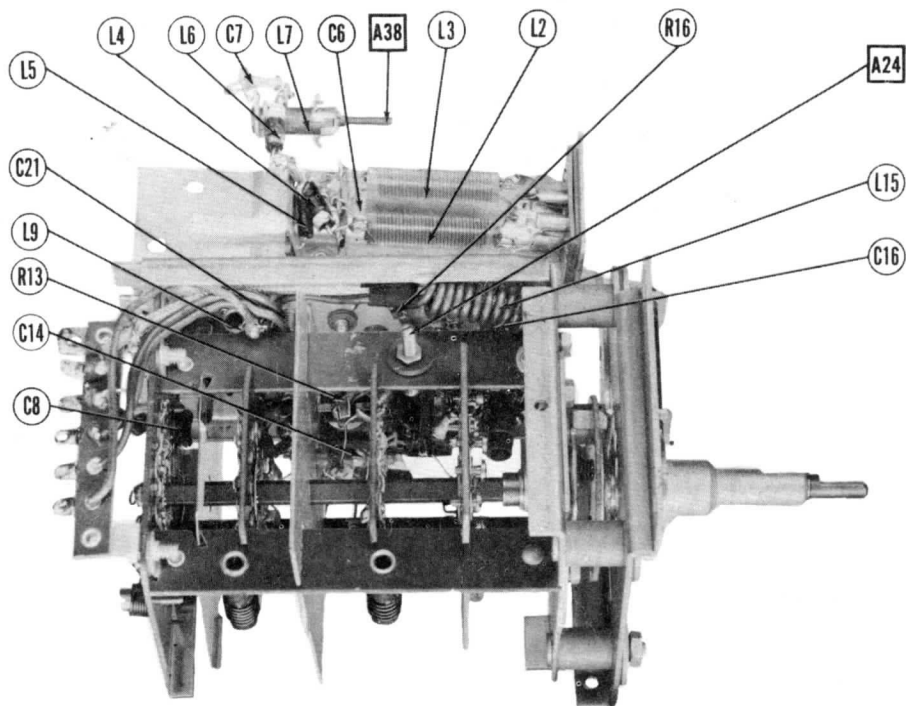
ALL MEASUREMENTS TAKEN WITH PICTURE TUBE REMOVED.
 AGC SWITCH COUNTERCLOCKWISE
 TV-PHONO-TONE SWITCH IN POSITION 1 (COUNTERCLOCKWISE)
 † MEASURED FROM PIN 8 OF V21
 ‡ MEASURED FROM +120 VDC POINT
 # MEASURED FROM PIN 3 OF V19

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.

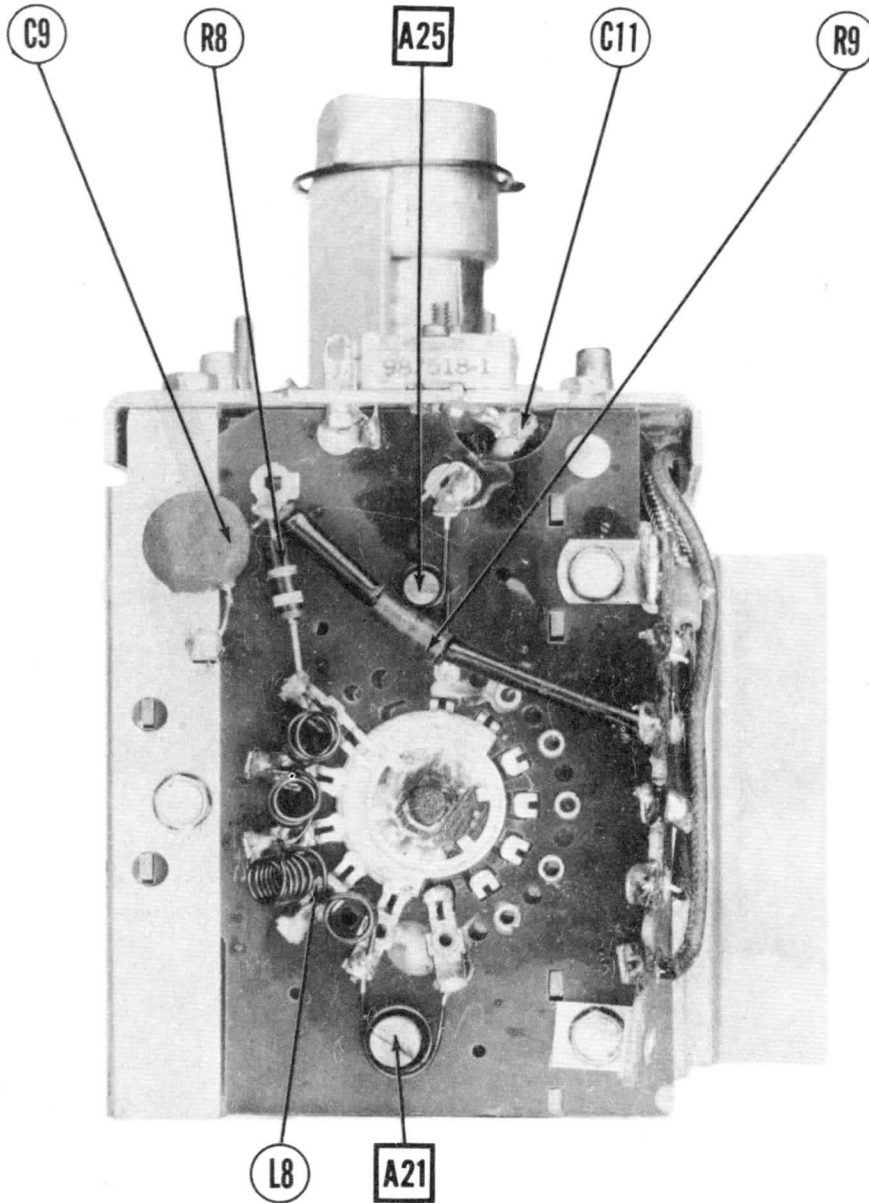
ALL MEASUREMENTS TAKEN WITH PICTURE TUBE REMOVED.
 AGC SWITCH COUNTERCLOCKWISE
 TV-PHONO-TONE SWITCH IN POSITION 1 (COUNTERCLOCKWISE)
 ‡ TAKEN WITH VACUUM TUBE VOLTMETER
 † MEASURED FROM +120 VDC POINT
 * DO NOT MEASURE



RF TUNER-RIGHT SIDE



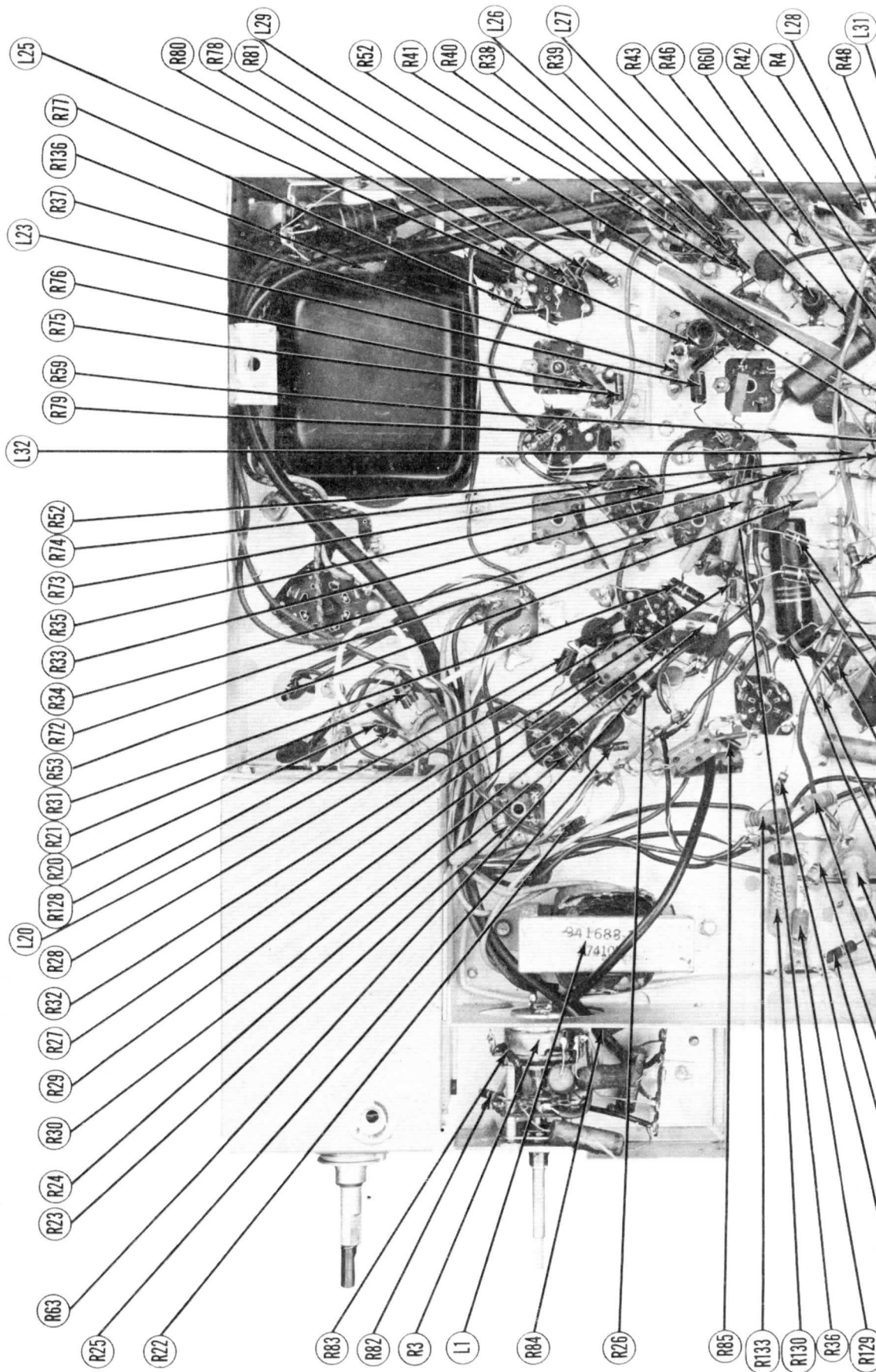
RF TUNER-LEFT SIDE



RF TUNER-REAR VIEW
DISASSEMBLY INSTRUCTIONS

1. Remove eight push-on type control knobs.
2. Remove two hex head screws from rear cover. Remove rear cover.
3. Disconnect built-in antenna.
4. Remove four hex head screws from speaker. Remove speaker.
5. Disconnect picture tube socket.
6. Disconnect high voltage lead.
7. Disconnect yoke plug.
8. Remove four hex head bolts from chassis. Remove chassis.

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



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	6CB6	6CB6	6CK		
V2	Converter	6J6	6J6	7BF		
V3	1st. Video IF Amp.	6AU6	6AU6	7BK		
V4	2nd. Video IF Amp.	6CB6	6CB6	6CK		
V5	3rd. Video IF Amp.	6AU6	6AU6	7BK		
V6	4th. Video IF Amp.	6CB6	6CB6	6CK		
V7	Video Detector-AGC Rectifier	6AL5	6AL5	5BT		
V8	Video Amplifier	12AU7	12AU7	9A		
V9	DC Restorer-Sync. Separator	12AU7	12AU7	9A		
V10	1st. Sound IF Amp.	6AU6	6AU6	7BK		
V11	Limiter	6AU6	6AU6	7BK		
V12	Sound Discriminator	6AL5	6AL5	6BT		
V13	AF Amplifier-AGC Clamp	6AV6	6AV6	7BT		
V14	Audio Output	6K6GT	6K6GT	7S		
V15	Sync. Amplifier-Vert. Oscillator	6SN7GT	6SN7GT	8BD	Used in models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, and 7T125.	
V16	Vert. Output	6K6GT	6K6GT	7S		
V17	Horiz. AFC-Horiz. Oscillator	6SN7GT	6SN7GT	8BD		
V18	Horiz. Output	6BG6G	6BG6G	5BT		
V19	Damper	6W4GT	6W4GT	4CG		
V20	HV Rectifier	1B3GT	1B3GT	3C		
V21	LV Rectifier	5U4G	5U4G	5T		
V22A	Picture Tube	17CP4	17CP4	12D		
B	Picture Tube	19AP4A	19AP4A	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.	CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.		SPRAGUE PART No.
C1A	35	450	75510	AFH7721J		UPT420		{TVL-3785 TVA-1702	▲ Filter
B	35	450							■ Filter
C	10	450							▲ Filter
D	5	450							Decoupling
C2A	35	450	75510	AFh7721J		UPT420		{TVL-3785 TVA-1702	▲ Filter
B	35	450							■ Filter
C	10	450							▲ Output Decoupling
D	5	450							V. Amp. Decoupling
C3A	20	450	75511	AFH4J164E-10B		UPT421		TVL-4742	▲ Vert. Output Dec.
B	20	200							■ Filter
C	20	200							▲ Output Cathode
D	50	50							Vert. Output Cathode
C4	5	450	28417	PRS450/4		BR445		TVA-1702	Decoupling
C5	2	50	73747	E26F3		BBR2-50T		TVA-1301	AGC Filter
C6	100		75437	SI100	D6-101		GPIK-100	19C11	RF Coupling
C7	39		75450		TCN-39		N750K-39		Fixed Trimmer
C8	270		75199	SI270	D6-271		GP2K-270	19C31	RF Coupling
C9	5000		73473	BPD-005	DD-502		811-005	29C1	AGC Filter
C10A	1500		75089	BPD-2X0015	DD-2-152		812-2X0015	29C6	RF Amp. Screen
B	1500								RF Amp. Fil.
C11	12		75200		TCZ-12		NP0K-12		RF Amp. Cathode
C12	270		75199	SI270	D6-271		GP2K-270	19C31	RF Coupling
C13	270		75199	SI270	D6-271		GP2K-270	19C31	RF Coupling
C14	390		75641	SI390	D6-391		GP2K-390		RF Coupling
C15	1500		75166						Conv. Decoupling
C16	4		75289				NP0K-4		Fixed Trimmer
C17	15		45465		TCZ-15		NP0K-15	19C5	Osc. Feedback
C18	39		75196	SI39	D6-390		GPIK-39		Osc. Grid Cap.
C19	.68		71504		TCZ-.68				Fixed Trimmer
C20	1500		73748	BPD-001b	DD-152		801-0015	29C8	Conv. Filament
C21	1500		75166						Filament Bypass
C22	6.8			SI6.8NP0	TCZ-6.8		NP0K-6.8		Fixed Trimmer
C23	1500		75166						RF Bypass
C24	1500		75166						RF Bypass
C25	10000		73960	BPD-01	DD-103	PTE4S1	821-01	36C1	AGC Filter
C26A	15000		75089	BPD-2X0015	DD-2-152	1W5D15	812-2X0015	29C6	RF Bypass
B	1500					1W5D15			RF Bypass
C27	56		71924		TCN-56		N750K-56		Fixed Trimmer
C28	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	AGC Filter
C29	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	AGC Filter
C30	82								Fixed Trimmer
C31	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	RF Bypass
C32A	10000		75877	BPD-DI	DD-103	PTE4S1	821-01	36C1	1st. V. IF Plate Dec.
B	10000			BPD-01	DD-103	PTE4S1	821-01	36C1	1st. V. IF Screen
C33	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	1st. V. IF Fil.
C34	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C35	47								Fixed Trimmer
C36A	1500		75089	BPD-2X0015	DD-2-152	1W5D15	812-2X0015	29C6	AGC Filter
B	1500					1W5D15			2nd. V. IF Fil.
C37	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	RF Bypass
C38	10000		73960	BPD-01	DD-103	PTE4S1	821-01	36C1	2nd. V. IF Dec.
C39	10000		73960	BPD-01	DD-103	PTE4S1	821-01	36C1	2nd. V. IF Screen
C40	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C41	47								Fixed Trimmer
C42A	1500		75089	BPD-2X0015	DD-2-152	1W5D15	812-2X0015	29C6	AGC Filter
B	1500					1W5D15			1st. S. IF Grid Filter
C43	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	RF Bypass
C44	10000		73960	BPD-01	DD-103	PTE4S1	821-01	36C1	3rd. V. IF Plate Dec.
C45	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	3rd. V. IF Screen
C46	.1	400	73551	P488-1	DF-104	PTE4P1		4TM-P1	3rd. V. IF Screen
C47	5000		73473	BPD-005	DD-502	1D5D5	811-005	29C1	3rd. V. IF Fil.
C48	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C49	75			SI75NP0	TCZ-75		NP0M-75		Fixed Trimmer
C50	100		45469	SI00NP0	TCZ-100	5R5T1	NP0M-100	36C10	4th. V. IF Cathode
C51A	1500		75089	BPD-2X0015	DD-2-152	1W5D15	812-2X0015	29C6	RF Bypass
B	1500					1W5D15			4th. V. IF Plate Dec.
C52	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	4th. V. IF Screen
C53	.047	400	73553	P488-047	DF-503	PTE4S5		4TM-847	4th. V. IF Screen

RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

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.	
C54	5000		73473	BPD-005	DD-502	1D5D5	811-005	29C1	4th. V. IF Fil.
C55	270	1000	73091	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	IF Coupling
C56	100		39396	S100	D6-101	5W5T1	GP1K-100	19C11	IF Coupling
C57	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	AGC Filter
C58	.47	200	73787	P288-47		G72P5		2TM-P47	AGC Filter
C59	10		53511	S110	D6-100	5W5Q1	NP0K-10	19C19	V. Diode Filter
C60	.0015	600	73598	P688-0015	D6-152	1W5D15	GP2L-0015	6TM-D15	V. Amp. Cathode
C61	100		75437	S100	D6-101	5W5T1	GP1K-100	19C11	V. Amp. Cathode
C62	.1	400	73551	P488-1	DF-104	PTE4P1		4TM-P1	Video Coupling
C63	.047	400	75071	P488-047	DF-503	PTE4S5		4TM-S47	V. Amp. Cathode
C64	.0033	600	73598	P688-0033	D6-332	PTE6D3	GP2M-0033	6TM-D33	V. Amp. Cathode †
C65	.047	600	73592	P688-047	DF-503	PTE6S5		6TM-D47	Video Coupling
C66	.047	600	73592	P688-047	DF-503	PTE6S5		6TM-S47	Video Coupling
C67	390	1000	73094	1468-0004	D6-391	5W5T4	GP2K-390	1FM-34	Video Coupling
C68	270			S1270	D6-271	5W5T25	GP2K-270	19C31	Video Coupling †
C69	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	AGC Filter
C70	.1	600	73557	P688-1	DF-104	PTE6P1		6TM-P1	Pic. Tube Cathode
C71	10000		73660	BPD-01	DD-103	PTE4S1	821-01	36C1	1st S. IF Dec.
C72	1500		73748	BPD-0015	DD-152	1W5D15	801-0015	29C8	1st S. IF Cathode
C73	1500		75166	S11500	D6-152	1W5D15	801-0015	29C8	Limiter Decoupling
C74	1500		75166	S11500	D6-152	1W5D15	801-0015	29C8	Limiter Screen
C75	270		75244	S1270	D6-271	5W5T25	GP2K-270	19C31	RF Bypass
C76	.002	600	73595	P688-002	D6-202	PTE6D2	GP2M-002	29C1	De-emphasis
C77	5000		73473	BPD-005	DD-502	1D5D5	811-005	29C1	Discr. Filament
C78	.0047	600	73920	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Audio Coupling
C79	.015	200	73797	P288-015	D6-472	PTE6S5		6TM-S15	Tone Comp.
C80	.0082	400	73808						Tone Comp.
C81	.01	400	73561	P488-01	D6-103	PTE4S1	821-01	4TM-S1	Audio Coupling
C82	.0027	600	73599	S12700	D6-272	1W5D25	GP2M-0027	1FM-225	Tone Comp.
C83	270	500	39638	S1270	D6-271	5W5T25	GP2K-270	19C31	Tone Comp.
C84	.01	400	73561	P488-01	D6-103	PTE4S1	821-01	4TM-S1	Audio Coupling
C85	.0047	200	73787	P688-0047	D6-472	PTE6D5	GP2M-0047	6TM-D47	Output Plate
C86	.47	200	73787	P288-47		G72P5		2TM-P47	Sync. Amp. Cathode
C87	.01	400	73561	P488-01	D6-103	PTE4S1	821-01	4TM-S1	Vert. Sync. Coupling
C88	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Integrator Net
C89	.0047	600	73920	P688-0047	D6-472	PTE6D47	GP2M-0047	6TM-D47	Integrator Net
C90	.0047	600	73920	P688-0047	D6-472	PTE6D47	GP2M-0047	6TM-D47	Integrator Net
C91	.01	600	73594	P688-01	D6-103	PTE6S1	821-01	6TM-S1	Vert. Osc. Grid
C92	.047	1000	73597	P1088-047		PTE16S5		MB-S47	Vert. Discharge
C93	.22	600	74957	684-25		GT6P25		6TM-P25	Vert. Sweep Coupling
C94	.022	400	73562	P488-022	D6-222	PTE4S2		4TM-S22	Vert. Shaping
C95	.0022	600	73595	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Vert. Sync. Coupling
C96	82	1000	73090	S182	TCZ-82	5W5T1	GP1K-82	1FM-31	Horiz. Sync. Coupling
C97	82	1000	73090	S182	TCZ-82	5W5T1	GP1K-82	1FM-31	Horiz. Feedback
C98	.047	400	73553	P488-047	DF-503	PTE4S5		4TM-S47	AFC Filter
C99	.022	400	73562	P488-022	DF-203	PTE4S2		4TM-S22	AFC Filter
C100	.47	200	73787	P288-47		G72P5		2TM-P47	AFC Filter
C101	.047	600	73592	P688-047	DF-503	PTE6S5		6TM-S47	Horiz. AFC Plate
C102	180	1000	73102						Horiz. Osc. Grid
C103	.01	600	73594	P688-01	D6-103	PTE6S1		6TM-S1	Fixed Trimmer
C104	.001	1000	73643	P1088-001		PTE16D1		MB-D1	Horiz. Discharge
C105	560	500	74250	1469-0005	D6-561	5R5T5	GP2K-560	MS-35	Horiz. Sweep Coupling
C106	100		39396	S11000	D6-101	5W5T1	GP1K-100	19C11	Horiz. Output Screen
C107	.047	1000	73597	P1088-047		PTE16S5		MB-S47	Horiz. Output Screen
C108	.22	400	73794	P488-22		GT4P22		4TM-P22	Horiz. Output Cathode
C109	.022	1000	73810	P1088-022		PTE16S2		MB-S22	Damper Filter
C110	.018	1000	74727						Damper Filter
C111	.047	1000	73597	P1088-047		PTE16S5		MB-S47	Fixed Trimmer
C112	.047	1000	73597	P1088-047		PTE16S5		MB-S47	Fixed Trimmer
C113	8.2		76009						Horiz. Output Plate §
C114	500	20000	74947	HV20B	TV1-502				H. V. Filter
C115	.047	400	75071	P488-047	DF-503	PTE4S5		4TM-S47	Line Filter
C116	.047	400	75071	P488-047	DF-503	PTE4S5		4TM-S47	Line Filter
C117	10000		73960	BPD-01	DD-103	PTE4S1	821-01	36C1	DAGC Dec.

ITEM No.	RATING		REPLACEMENT DATA		RESISTANCE	WATTS	RCA PART No.	IRC PART No.
	RESISTANCE	WATTS						
R16	100KΩ	20%					504410	BTS-100K
R17	10KΩ						504310	BTS-10K
R18	10KΩ	5%					3078	
R19	10Meg							BTB-10Meg
R20	100Ω						504110	BTS-100
R21	150KΩ						503415	BTS-150K
R22	1000Ω						503210	BTS-1000
R23	75Ω							
R24	82Ω						503082	BTS-82
R25	33KΩ						503333	BTS-33K
R26	1000Ω						503210	BTS-1000
R27	1000Ω	20%					504210	BTS-1000
R28	8200Ω	5%					14250	
R29	82Ω						503082	BTS-82
R30	47KΩ						503347	BTS-47K
R31	12KΩ						503666	BTS-12K
R32	1000Ω	20%					504210	BTS-1000
R33	82Ω	20%					503082	BTS-82
R34	33KΩ							BTB-33K
R35	1800Ω						503218	BTS-1800
R36	1000Ω	20%					504210	BTS-1000
R37	180Ω						503118	BTS-180
R38	1000Ω	20%					504210	BTS-1000
R39	33KΩ						503333	BTS-33K
R40	6800Ω						513268	BTA-6800
R41	22KΩ	20%					504322	BTS-22K
R42	5600Ω						503256	BTS-5600
R43	33KΩ	20%					504333	BTS-33K
R44	18KΩ						503318	BTS-18K
R45	18KΩ						503318	BTS-18K
R46	47KΩ	20%					504347	BTS-47K
R47	150KΩ	20%					504415	BTS-150K
R48	22Ω						503122	BTS-22Ω
R49	100KΩ						503410	BTS-100K
R50	560KΩ						503456	BTS-560K
R51	22Ω						503122	BTS-22Ω
R52	4700Ω						503247	BTS-4700
R53	15KΩ						513315	BTA-15K
R54	10KΩ						503310	BTS-10K
R55	2700Ω	20%					504227	BTS-2700
R56	4700Ω	20%						BTB-4700
R57	4700Ω						503247	BTS-4700
R58	4700Ω						504482	BTS-4700
R59	820KΩ	20%					503356	BTS-820K
R60	56KΩ						503233	BTS-56K
R61	3300Ω						503342	BTS-3300
R62	120KΩ						503412	BTS-120K
R63	6800Ω						523268	BTB-6800
R64	100KΩ						503410	BTS-100K
R65	56KΩ	20%					504356	BTS-56K
R66	47KΩ						503347	BTS-47K
R67	22KΩ						503422	BTS-22K
R68	22KΩ						503422	BTS-22K
R69	22KΩ						503422	BTS-22K
R70	22KΩ						503422	BTS-22K
R71	150KΩ	20%					514415	BTA-150K
R72	390KΩ						503439	BTS-390K
R73	82Ω						503082	BTS-82
R74	1000Ω						503210	BTS-1000
R75	12KΩ	5%					30436	BTS-12K-5%
R76	1000Ω						513210	BTA-1000
R77	91KΩ	5%						
R78	91KΩ	5%						
R79	47KΩ						503347	BTS-47K
R80	5.1Ω						72067	BW- $\frac{1}{2}$ -5.1
R81	22KΩ						503322	BTS-22K
R82	18KΩ						503318	BTS-18K
R83	22KΩ						503322	BTS-22K
R84	27KΩ						503327	BTS-27K
R85	10Meg						503610	BTS-10Meg
R86	330KΩ						503433	BTS-330K

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (CONT.)

SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R16	100KΩ	20%	504410	BTS-100K	Osc. Grid
R17	10KΩ		504310	BTS-10K	Osc. Plate
R18	10KΩ	5%	3078	BTB-10Meg	Converter Transformer Shunt
R19	10MΩ		504110	BTS-100	Volume Divider - See Note 2
R20	100Ω		503415	BTS-150K	Decoupling
R21	150KΩ		503210	BTS-1000	AGC Network - See Notes 3 and 9
R22	1000Ω		503082	BTS-82	AGC Network
R23	750Ω		503333	BTS-33K	1st Video IF Transformer Shunt - See Note 4
R24	82Ω		503210	BTS-1000	1st Video IF Amp. Cathode
R25	33KΩ		504210	BTS-1000	1st Video IF Amp. Screen
R26	1000Ω		14250	BTS-1000	1st Video IF Amp. Plate Decoupling
R27	1000Ω	20%	503082	BTS-82	AGC Network
R28	8200Ω	5%	503347	BTS-47K	2nd Video IF Amp. Grid
R29	82Ω		30866	BTS-47K	2nd Video IF Amp. Cathode
R30	47KΩ		503347	BTS-47K	2nd Video IF Amp. Screen
R31	12KΩ	1	30866	BTS-47K	2nd Video IF Amp. Plate
R32	1000Ω	20%	504210	BTS-1000	2nd Video IF Amp. Decoupling
R33	82Ω	20%	503082	BTS-82	3rd Video IF Amp. Cathode
R34	33KΩ		503218	BTB-33K	3rd Video IF Amp. Screen
R35	1800Ω		504210	BTS-1800	3rd Video IF Amp. Screen
R36	1000Ω	20%	503118	BTS-180	3rd Video IF Amp. Plate Decoupling
R37	180Ω		504210	BTS-1000	4th Video IF Amp. Cathode
R38	1000Ω	20%	503333	BTS-33K	4th Video IF Amp. Screen
R39	33KΩ		513268	BTA-6800	4th Video IF Amp. Screen Decoupling
R40	6800Ω		504322	BTS-22K	4th Video IF Amp. Plate Decoupling
R41	22KΩ	20%	503256	BTS-5600	Video Peaking Coil Shunt
R42	5600Ω		504333	BTS-33K	Video Det. Diode Load
R43	33KΩ	20%	503318	BTS-18K	AGC Network
R44	18KΩ		503318	BTS-18K	AGC Network
R45	18KΩ		504347	BTS-47K	AGC Network
R46	47KΩ	20%	504415	BTS-150K	AGC Network
R47	150KΩ	20%	503122	BTS-220	Video Amp. Cathode
R48	220Ω		503410	BTS-100K	Video Divider
R49	100KΩ		503456	BTS-560K	Video Amp. Grid
R50	560KΩ		503122	BTS-220	Video Amp. Cathode
R51	220Ω		503247	BTS-4700	Video Amp. Plate - See Note 10
R52	4700Ω		513315	BTA-15K	Video Amp. Plate Decoupling
R53	15KΩ		503310	BTS-10K	Video Peaking Coil Shunt - See Note 1
R54	10KΩ		504227	BTS-2700	Video Amp. Plate
R55	2700Ω	20%	503247	BTB-4700	Video Amp. Plate - See Note 11
R56	4700Ω	20%	503247	BTS-4700	Isolation
R57	4700Ω		503247	BTS-4700	Isolation
R58	4700Ω		504482	BTS-820K	Picture Tube Grid
R59	820KΩ	20%	503356	AGC Amp. Grid	AGC Amp. Grid
R60	56KΩ		503233	BTS-3300	Volume Divider
R61	3300Ω		503412	BTS-120K	Volume Divider
R62	120KΩ		523268	BTB-6800	Decoupling
R63	6800Ω		503410	BTS-100K	AGC Amp. Plate
R64	100KΩ		504356	BTS-56K	AGC Amp. Plate
R65	56KΩ	20%	503347	BTS-47K	AGC Amp. Plate
R66	47KΩ		503422	BTS-220K	AGC Amp. Plate
R67	220KΩ		503422	BTS-220K	AGC Amp. Plate
R68	220KΩ		503422	BTS-220K	AGC Amp. Cathode
R69	220KΩ		503422	BTS-220K	AGC Amp. Cathode
R70	220KΩ		514415	BTA-150K	Volume Divider
R71	150KΩ	20%	503439	BTS-390K	Volume Divider
R72	390KΩ		503082	BTS-82	Picture Tube Cathode
R73	82Ω		503210	BTS-1000	Sound IF Amp. Grid - See Note 5
R74	1000Ω		30436	BTS-12K-5%	Sound IF Amp. Cathode
R75	12KΩ	5%	513210	BTA-1000	Sound IF Amp. Decoupling
R76	1000Ω				Limiter Screen
R77	91KΩ	5%			Limiter Decoupling
R78	91KΩ	5%			Disc. Diode Load - See Note 6
R79	47KΩ		503347	BTS-47K	Disc. Diode Load - See Note 6
R80	5.1Ω		72067	BW-1/2-5.1	Volume Divider
R81	22KΩ		503322	BTS-22K	Disc. Diode Filament - Wire Wound
R82	18KΩ		503318	BTS-18K	De-emphasis
R83	22KΩ		503322	BTS-22K	Tone Compensation
R84	27KΩ		503327	BTS-27K	Tone Compensation
R85	10Meg		503610	BTS-10Meg	Tone Compensation
R86	330KΩ		503433	BTS-330K	AF Amp. Grid
R87	470KΩ		503447	BTS-470K	AF Amp. Plate
R88	100Ω		513110	BW-1-100	Output Grid
R89	390Ω		513139	BW-1-390	Output Cathode - Wire Wound
R90	470Ω		513147	BTA-470	Output Cathode - Wire Wound
R91	2200Ω	20%	504222	BTS-2200	Output Decoupling
R92	18KΩ		513318	BTA-18K	Sync. Amp. Cathode
R93	18KΩ		503318	BTS-18K	Sync. Amp. Cathode
R94	22KΩ		503322	BTS-22K	Volume Divider
R95	22KΩ		503322	BTS-22K	Volume Divider
R96	8200Ω		503282	BTS-8200	Integrator
R97	8200Ω		503282	BTS-8200	Integrator
R98	3.9Meg		503539	BTS-3.9Meg	Integrator
R99	1.2Meg		503512	BTS-1.2Meg	Vertical Osc. Grid
R100	270KΩ		513427	BTA-270K	Vertical Osc. Grid
R101	1Meg		503510	BTS-1Meg	Vertical Osc. Plate
R102	22KΩ	5%	30436	BTS-12K-5%	Vertical Osc. Transformer Shunt
R103	12KΩ	5%	503522	BTS-2.2Meg	Vertical Peaking
R104	1500Ω	20%	514215	BTA-1500	Vertical Output Grid
R105	1000Ω	20%	514210	BTA-1000	Vertical Output Cathode
R106	15KΩ		503315	BTS-15K	Vertical Output Decoupling
R107	220KΩ	5%	503422	BTS-220K-5%	Vertical Linearity Control Shunt
R108	220KΩ	5%	503422	BTS-220K-5%	Damping
R109	150KΩ		503415	BTS-150K	Volume Divider
R110	10KΩ		503310	BTS-10K	Volume Divider
R111	330KΩ		503433	BTS-330K	Isolation
R112	910KΩ				Horizontal AFC Grid
R113	82KΩ		513382	BTA-82K	Horizontal AFC Grid - See Note 7
R114	330KΩ	5%	38892	BTA-330K-5%	Horizontal AFC Cathode
R115	75KΩ				Horizontal AFC Plate - See Note 8
R116	82KΩ		513382	BTA-82K	Volume Divider
R117	150KΩ	5%	31895	BTA-150K	Horizontal Osc. Grid
R118	82KΩ		513382	BTA-82K	Horizontal Osc. Grid
R119	8200Ω		503282	BTS-8200	Horizontal Osc. Plate
R120	3900Ω		503239	BTS-3900	Horizontal Osc. Coil Shunt - See Note 10
R121	47Ω	20%	504947	BTS-1Meg	Horizontal Osc. Parasitic Suppressor
R122	1Meg		503510	BW-2-100	Horizontal Output Grid
R123	100Ω		523110	BTA-6800	Horizontal Output Cathode - Wire Wound
R124	6800Ω		513268	BTA-6800	Horizontal Output Screen

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.	
R125	33KΩ	20%	504333	504333	
R126	150KΩ	20%	31895	31895	
R127	1Meg		503510	503510	
R128	100Ω		503110	503110	
R129	10KΩ		523310	523310	
R130	13KΩ		76065	76065	
R131	4300Ω		76063	76063	
R132	56KΩ	1	513356	513356	
R133	27KΩ	1	513327	513327	
R134	4000Ω	10	75512	75512	
R135	220Ω		503122	503122	
R136	100KΩ	20%	524410	524410	
R137	8000Ω	10	75593	75593	
R138	10KΩ	1/2	503310	503310	

Note 1. Not used in all models.
 Note 2. Some models use 2.2 meg resistor.
 Note 3. Some models use 33KΩ resistor.
 Note 4. Some models use 680Ω resistor.
 Note 5. Some models use 470KΩ resistor.
 Note 6. Some models use 100KΩ resistor.
 Note 7. Some models use 82KΩ resistor.
 Note 8. Some models use 68KΩ resistor.
 Note 9. Some models use parallel resistor.
 Note 10. Some models use series resistor.
 Note 11. Some models use 6800Ω resistor.
 Note 12. Some models use 10 watt resistor.
 Note 13. Some models use 3000Ω 15 watt resistor.

ITEM No.	RATING			
	PRI.	SEC. 1	SEC. 2	SEC. 3
T1	117VAC ① 1.82A	760VCTC .225ADC	5VAC ④ 3A	6.3VAC ④ 7A 6.3VAC ④ 1.2A

③ Redrill mounting holes.

ITEM No.	RATING		RCA VICTOR PART No.
	DC RESISTANCE	SEC.	
T2	165Ω	1310Ω	74144
T3	260Ω	0Ω	75585
T4	Tap 25Ω		
T5A	400Ω	.32Ω	74950
T5B	3.5Ω		

④ Drill one new mounting hole.

ITEM No.	RATING			
	IMPEDANCE	DC RES.	PRI.	SEC.
T6	7KΩ	3.4Ω	370Ω	.43Ω

ITEM No.	RATINGS			RCA VICTOR PART No.
	FIELD RES.	V. C. IMP.	DC RES.	
SP1A	PM	3.4Ω		75022
B	PM	3.4Ω		74974
SP2A	7 3/4"	1"		75024
B	11 3/4"	1"		75082 or 76110

ITEM No.	RATINGS		
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT)
L1	.225A	45Ω	1.1 Henries

ITEM No.	USE	DC RES.	
		PRI.	SEC.
L2	Ant. Coil	.6Ω	.6Ω
L3	Ant. Coil	.6Ω	.6Ω
L4	IF Trap	.2Ω	
L5	Ant. Coil		
L6	Shunt	0Ω	
L7	IF Trap	.2Ω	
L8	FM Trap	0Ω	
L9	Ant. Coils	0Ω	
L9	Fil. Choke	0Ω	
L10	RF Coil	0Ω	
L11	RF Coils	0Ω	
L12	Mixer Grid Coils	0Ω	
L13	Mixer Grid Coils	0Ω	
L14	Osc. Coils	0Ω	

OPTIONS (Continued)

CONT.)

IDENTIFICATION CODES	
Osc. Grid	
Osc. Plate	
Converter Transformer Shunt	
Voltage Divider - See Note 2	
Decoupling	
AGC Network - See Notes 3 and 9	
AGC Network	
1st Video IF Transformer Shunt - See Note 4	
1st Video IF Amp. Cathode	
1st Video IF Amp. Screen	
1st Video IF Amp. Plate Decoupling	
AGC Network	
2nd Video IF Amp. Grid	
2nd Video IF Amp. Cathode	
2nd Video IF Amp. Screen	
2nd Video IF Amp. Plate	
2nd Video IF Amp. Decoupling	
3rd Video IF Amp. Cathode	
3rd Video IF Amp. Screen	
3rd Video IF Amp. Plate	
3rd Video IF Amp. Plate Decoupling	
4th Video IF Amp. Cathode	
4th Video IF Amp. Screen	
4th Video IF Amp. Screen Decoupling	
4th Video IF Amp. Plate Decoupling	
Video Peaking Coil Shunt	
Video Det. Diode Load	
AGC Network	
AGC Network	
AGC Network	
AGC Network	
AGC Network	
Video Amp. Cathode	
Voltage Divider	
Video Amp. Grid	
Video Amp. Cathode	
Video Amp. Plate - See Note 10	
Video Amp. Plate Decoupling	
Video Peaking Coil Shunt - See Note 1	
Video Amp. Plate	
Video Amp. Plate - See Note 11	
Isolation	
Isolation	
Picture Tube Grid	
AGC Amp. Grid	
Voltage Divider	
Voltage Divider	
Decoupling	
AGC Amp. Plate	
AGC Amp. Plate	
Sync. Sep. Plate	
Sync. Sep. Cathode	
AGC Amp. Cathode	
Voltage Divider	
Voltage Divider	
Picture Tube Cathode	
Sound IF Amp. Grid - See Note 5	
Sound IF Amp. Cathode	
Sound IF Amp. Decoupling	
Limiting Screen	
Limiting Decoupling	
Disc. Diode Load - See Note 6	
Disc. Diode Load - See Note 6	
Voltage Divider	
Disc. Diode Filament - Wire Wound	
De-emphasis	
Tone Compensation	
Tone Compensation	
Tone Compensation	
Tone Compensation	
AF Amp. Grid	
AF Amp. Plate	
Output Grid	
Output Cathode - Wire Wound	
Output Cathode - Wire Wound	
Output Decoupling	
Sync. Amp. Cathode	
Sync. Amp. Plate	
Voltage Divider	
Voltage Divider	
Integrator	
Integrator	
Integrator	
Vertical Osc. Grid	
Vertical Osc. Grid	
Vertical Osc. Plate	
Vertical Osc. Transformer Shunt	
Vertical Peaking	
Vertical Output Grid	
Vertical Output Cathode	
Vertical Output Decoupling	
Vertical Linearity Control Shunt	
Damping	
Voltage Divider	
Voltage Divider	
Isolation	
Horizontal AFC Grid	
Horizontal AFC Grid - See Note 7	
Horizontal AFC Cathode	
Horizontal AFC Cathode	
Horizontal AFC Plate - See Note 8	
Voltage Divider	
Horizontal Osc. Grid	
Horizontal Osc. Plate	
Horizontal Osc. Coil Shunt - See Note 10	
Horizontal AFC Filter	
Parasitic Suppressor	
Horizontal Output Grid	
Horizontal Output Cathode - Wire Wound	
Horizontal Output Screen	

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA VICTOR PART No.	IRC PART No.	
R125	33KΩ 20%	1/2	504333	BTS-33K	Horizontal Output Screen
R126	150KΩ 20%	1	31895	BTA-150K	Horizontal Feedback
R127	1Meg	1	503510	BTS-1Meg	Voltage Divider
R128	100Ω	1/2	503110	BTS-100	Decoupling
R129	10KΩ	2	523310	BTB-10K	Voltage Divider - See Note 10
R130	13KΩ	5	76065		Voltage Divider - Wire Wound - See Note 12
R131	4300Ω	5	76063		Voltage Divider - Wire Wound
R132	56KΩ	1	513356	BTA-56K	Voltage Divider
R133	27KΩ	1	513327	BTA-27K	Voltage Divider - See Note 10
R134	4000Ω	10	75512	1 3/4-4000	Voltage Divider - Wire Wound - See Note 13
R135	220Ω	1/2	503122	BW-1/2-220	Voltage Divider - Wire Wound - See Note 1
R136	100KΩ 20%	2	524410	BTB-100K	Isolation
R137	8000Ω	10	75593	1 3/4-8000	Voltage Divider - Wire Wound - See Note 1
R138	10KΩ	1/2	503310	BTS-10K	Horizontal AFC Decoupling - See Note 1

- Note 1. Not used in all models.
- Note 2. Some models use 2.2 meg resistor in this application.
- Note 3. Some models use 33KΩ resistor in this application.
- Note 4. Some models use 680Ω resistor in this application.
- Note 5. Some models use 470KΩ resistor in this application.
- Note 6. Some models use 100KΩ resistor in this application.
- Note 7. Some models use 820KΩ resistor in this application.
- Note 8. Some models use 68KΩ resistor in this application.
- Note 9. Some models use parallel resistor in this application to obtain desired value.
- Note 10. Some models use series resistor in this application to obtain desired value.
- Note 11. Some models use 6800Ω resistor in this application.
- Note 12. Some models use 10 watt resistor in this application.
- Note 13. Some models use 3000Ω 15 watt resistor in this application.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	RCA VICTOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC ⓐ 1.82A	760VCT 225ADC	5VAC ⓐ 3A	6.3VAC ⓐ 7A SEC. 4 6.3VAC ⓐ 1.2A	75508		P-8159	TP-392

ⓐ Redrill mounting holes.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE PRI.	SEC.	RCA VICTOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
T2	165Ω	1310Ω	74144	A-8122	A-4000 ⑤	TB0-2	Vertical Block Osc. Trans Horizontal Output Trans.
T3	260Ω	0Ω	75585				
T4	Tap 25Ω						
T5A	400Ω	.32Ω	74950				Vertical Output Trans. Horizontal Deflection Coil Vertical Deflection Coil
T5B	43Ω						

④ Drill one new mounting hole.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE PRI.	DC RES. SEC.	PRI.	SEC.	RCA VICTOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
T6	7KΩ	3.4Ω	370Ω	.43Ω	75520	A-387 8 ④	A-3020	R0-13 ④	④ Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.		RCA VICTOR PART No.	JENSEN PART No.	QUAM PART No.	
SP1A	PM	3.4Ω		75022 ①	ST117 Mod. P8-T	8A31	① Use in models 9T105, 7T103, 7T104 ② Use in models 9T126, 9T128, 7T112, 7T123 7T124 ③ Viking Part Number
B	PM	3.4Ω		74974 ②	12J12 ③	12A4A	
SP2A				75024 or 76120			
B				75082 or 75875 or 76121			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 cps)	RCA VICTOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.225A	45Ω	1.1 Henries	73154	C-2326 ⑤	C-2991	TR-3300	⑤ Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	RCA VICTOR PART No.	MEISSNER PART No.	IRC PART No.	
L2	Ant. Coil	.6Ω	.6Ω	73591			Complete with Stator, Rotor, Coils, and Capacitor's C8, C9, Resistors R7, R8, R9
L3	Ant. Coil	.6Ω	.6Ω	73591			
L4	IF Trap	.2Ω		75242			
L5	Ant. Coil			75241			
	Shunt			75242			
L6	IF Trap	.2Ω		75449			
L7	FM Trap	0Ω		75180			
L8	Ant. Coils	0Ω					
L9	Fil. Choke	0Ω		73477			Includes .8-3.8 Trimmer Complete with Stator, Rotor, Coils and Capacitor C13 and Resistor R12 Complete with Stator, Rotor, Coils, Capacitors C12, C14, Resistors R13, R14, R15
L10	RF Coil	0Ω		75183			
L11	RF Coils	0Ω		75179			
L12	Mixer Grid Coils	0Ω		75178			
L13	Mixer Grid Coil	0Ω		75182			Includes .8-3.8 Trimmer Complete with Stator, Rotor, Coils, Capacitors C17, C19
L14	Osc. Coils	0Ω		75175			

RCA VICTOR MODELS 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147

PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	RCA VICTOR	MEISSNER	IRC	
				PART No.	PART No.	PART No.	
L15	Fil. Choke	0Ω					
L16	Mixer Plate Loading Coil	0Ω		75185		CLA	.56 Microhenry
L17	RF Choke	.3Ω		75202			
L18	Conv. Trans.	.4Ω	.1Ω	75181			
L19	1st Video IF	.1Ω	.4Ω	74589			Includes Trap
L20	Fil. Choke	0Ω		73477			
L21	2nd Video IF	.1Ω		74590			Includes Trap
L22	3rd Video IF - Sound Take Off	.2Ω	0Ω	76264			
L23	Fil. Choke	0Ω		73477			
L24	4th Video IF	.1Ω	.1Ω	73574			Includes Trap
L25	Sound Trap	.1Ω	0Ω	71778			
L26	Peaking	2.8Ω		76011			36 Microhenries - Orange-Blue Dots. Tap at .1Ω
L27	5th Video IF	.4Ω		75210			
L28	Peaking	2.8Ω		75299			36 Microhenries - Orange-Blue Dots
L29	Peaking	12Ω		75252	19-1923		500 Microhenries - Green-White Dots
L30	Peaking	2.8Ω		71793			36 Microhenries - Black Dot
L31	4.5MC Trap	2.5Ω		75251			Green- Yellow Dots
L32	Peaking	12Ω		75252	19-1923		500 Microhenries - Green-White Dots
L33	Peaking			76132	19-1923		500 Microhenries -Blue-Green Dots- Wound on 10KΩ resistor (Not used in all Models.)
L34	Peaking	5.2Ω		75253	19-1921		120 Microhenries - Blue-Red Dots
L35	Sound IF	.3Ω		75211			
L36	Disc. Trans.	.1Ω	.1Ω	75212			
L37	Horiz. Osc. Trans.	82Ω	50Ω	75213			
L38	Horiz. Lin.	35Ω		71449			

FUSES

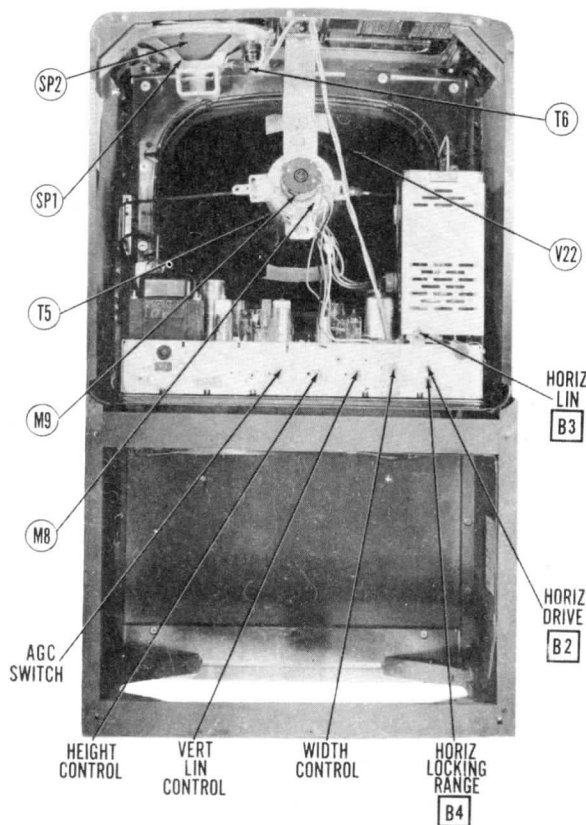
ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			RCA VICTOR		LITTELFUSE		
			PART No.	HOLDER	PART No.	HOLDER	
M1	3AG Pigtail	.250A				318.250	

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					RCA VICTOR PART No.		
M2	Bayonet	6-8	.2	White	11765		Type #51 - Channel Indicator (Not used in all Models)
M3	Bayonet	6-8	.2	White	11765		Type #51 - Jewel (Not used in all Models)

MISCELLANEOUS

ITEM No.	PART NAME	RCA VICTOR PART No.	NOTES
M4	RF Tuner		
M5	Switch	75594	Light (Not used in all Models)
M6	Switch	76010	AGC
M7	Switch	76170	TV-Phono-Tone (Chassis KCS47B, KCS47C, KCS49B, KCS49C)
M8	Focus Magnet	76168	
M9	Ion Trap	74953	
B4, B2	Antenna Matching Unit	75509	Includes Connector L2, L3, L4, L5, L6, L7
	Trimmer	75217	2 Sections (Horizontal Lock 10-160MMF), Horizontal Drive 10-160MMF)
	Safety Glass	74606	Models 7T112, 7T122, 7T124, 7T143
	Safety Glass	76131	Models 7T103, 7T104
	Safety Glass	75619	Models 9T105, 9T126, 9T128, 9T147
	Escutcheon	75455	Channel Indicator (Dark) (Models 7T112, 7T122, 7T123, 7T124)
	Escutcheon	75456	Channel Indicator (Light) (Models 7T112, 7T122, 7T123, 7T124, 9T126, 9T128)
	Escutcheon	75499	Channel Indicator (Dark) (Models 7T103, 7T104, 9T105)
	Escutcheon	75501	Channel Indicator (Light) (Model 9T105)
	Knob	74960	Channel Selector (Maroon) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126, 9T128)
	Knob	75462	Channel Selector (Beige) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126)
	Knob	74961	Channel Selector (Tan) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T125)
	Knob	73996	Channel Selector (Maroon) (Models 7T143, 9T147)
	Knob	74959	Fine Tuning (Maroon) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T147, 7T143, 9T105, 9T126, 9T128)
	Knob	75461	Fine Tuning (Beige) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126)
	Knob	73995	Fine Tuning (Tan) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T128)
	Knob	74962	Brightness-Vert. Hold (Maroon) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 7T143, 9T105, 9T126, 9T128, 9T147)
	Knob	75463	Brightness, Vert. Hold. (Beige) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126)
	Knob	73999	Brightness, Vert. Hold. (Tan) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T128)
	Knob	74963	Contrast, Horiz. Hold, Volume (Maroon) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 7T143, 9T147, 9T105, 9T126, 9T128)
	Knob	75464	Contrast, Horiz. Hold, Volume (Beige) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126)
	Knob	74001	Contrast, Horiz. Hold, Volume (Tan) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125, 9T105, 9T126, 9T128)
	Knob	76174	Tone-Phono Switch (Maroon) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125)
	Knob	76175	Tone-Phono Switch (Beige) (Models 7T103, 7T104, 7T112, 7T122, 7T123, 7T124, 7T125)
	Knob	76191	Tone-Phono Switch (Beige) (Models 9T105, 9T126)
	Knob	76190	Tone-Phono Switch (Maroon) (Models 9T105, 9T126, 9T128)



CABINET-REAR VIEW MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a short across terminals C and D of L37.

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

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

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

Adjust the horizontal drive trimmer, (B2), counter clockwise as far as possible without crowding the right half 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. Readjustment of B2 may be required to obtain optimum linearity.

Turn the hold control to maximum counter-clockwise and momentarily interrupt the signal by switching to another channel and back again.

Turn the hold control slowly clockwise and carefully note the least number of sloping bars present just before the picture pulls into synchronization.

Adjust the horizontal lock trimmer, (B4), and repeat the check until 7 to 9 bars are present at the pull in point.

HORIZONTAL WAVEFORM ADJUSTMENT

Remove the short from L37.

Turn the horizontal hold control fully clockwise and adjust the horizontal waveform slug, (B5), until the blanking signal appears in the raster as a single vertical bar.

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

Connect the vertical input of an oscilloscope to terminal C of L37.

Adjust the horizontal waveform slug, (B5), until the broad and narrow peaks of the waveform on the oscilloscope are of equal height as shown in figure 5. If necessary during adjustment of B5, turn the hold control to keep the picture synchronized.

Turn the hold control to maximum counter-clockwise and momentarily interrupt the signal.

Adjust B4 until 2 bars are present just before the picture pulls into synchronization as the hold control is turned clockwise.

Turn the hold control to fully clockwise and adjust B1 until the blanking signal appears in the raster.

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

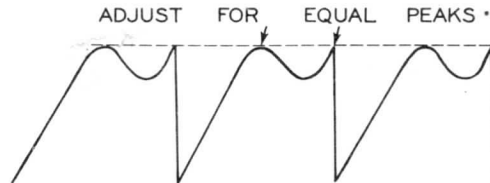


FIG. 5

AGC SWITCH SETTING

In strong signal areas the normal setting of the AGC switch is counter-clockwise. If interference of the impulse type is encountered turn the switch to the center position.

In very weak signal areas, turn the switch to the clockwise position.

FM TRAP ADJUSTMENT

If interference from a strong FM station is encountered, adjust A38 to eliminate or minimize the interference. Otherwise A38 requires no adjustment.