



HALLCRAFTERS
MODELS 605, 606

HALLCRAFTERS MODEL 605			
TRADE NAME	Hallicrafters, Models 605, 606		
MANUFACTURER	Hallicrafters Co., 5th and Kostner Ave., Chicago, Illinois		
TYPE SET	TV-FM Receiver		
TUBES	Twenty-Five		
POWER SUPPLY	105-125 Volts AC-60 Cycle	RATING	2.4 Amp. at 117 Volts AC
TUNING RANGE—54 thru 216MC (Continuous Tuning)			
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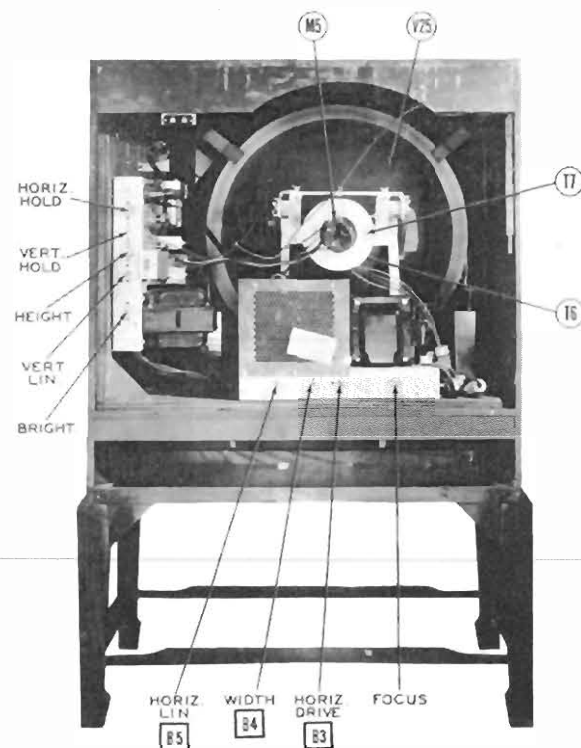
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HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

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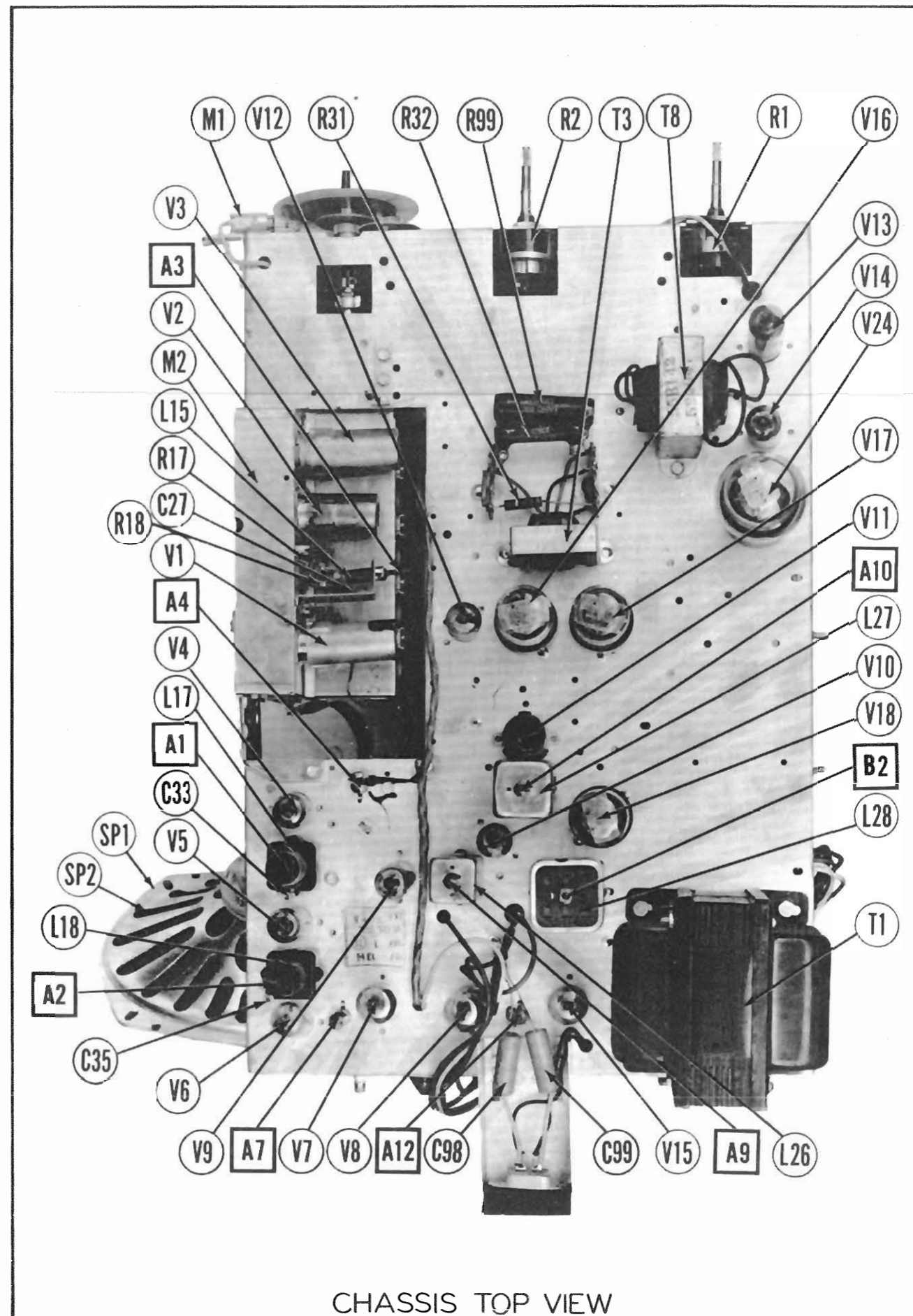


CABINET-REAR VIEW HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

- Turn the set on and tune in a TV station preferably a test pattern, and adjust the vertical hold control to synchronize the picture vertically.
- Turn the horizontal hold control to the mid-position of its range.
- Adjust the horizontal frequency slug (B1) until the picture synchronizes properly.
- If the top adjustment screw (B2) on the horizontal oscillator transformer has been tampered with, turn it all the way out (counter-clockwise) and adjust B1 until the picture synchronizes.
- Adjust the horizontal drive trimmer (B3) clockwise as far as possible without causing fold over in the picture.
- Adjust the width slug (B4) until the picture fills the mask horizontally.
- Adjust the horizontal linearity slug (B5) until the picture is symmetrical from left to right.
- Readjustment of B3 may be required for optimum results.

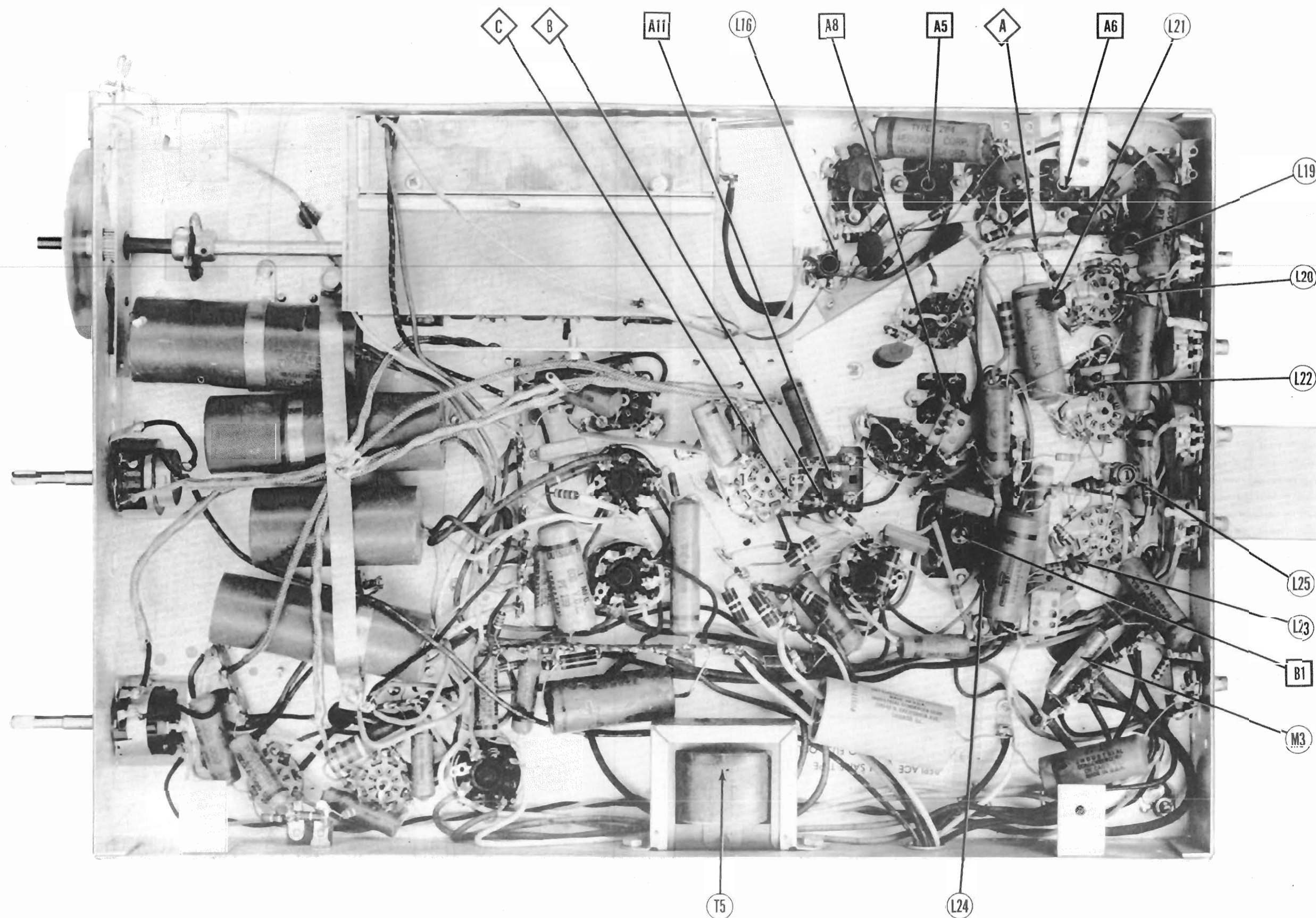
DISASSEMBLY INSTRUCTIONS

1. Remove four push-on type control knobs from front of set.
 2. Remove ten phillips head and one 1/4" hex head screws holding rear cover. Remove cover.
 3. Remove two phillips head screws holding antenna connection terminal to top of cabinet.
 4. Remove 1/2" hex nut holding antenna tuning shaft to front of cabinet. Remove antenna tuning assembly from support bracket. Place assembly out of the way for chassis removal.
 5. Remove phillips head screw holding support bracket to vertical mounting board.
 6. Remove four large screws holding mounting board at bottom. Slide board out of cabinet.
- POWER CHASSIS**
1. Disconnect picture tube deflection yoke plug.
 2. Disconnect power, focus and chassis connector plugs from power unit.
 3. Remove snap-on type HV cap from picture tube.
 4. Remove four screws holding power chassis to mounting board. Remove chassis.
- RECEIVER CHASSIS**
1. Remove staples holding cable guides and disconnect speaker at bayonet plug.
 2. Disconnect picture tube socket.
 3. Remove wing nut on top of focus coil support and remove ground lead.
 4. Remove four screws holding chassis to vertical mounting board. Remove chassis.
 5. Remove four phillips head screws holding speaker. Remove speaker.



CHASSIS TOP VIEW

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CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

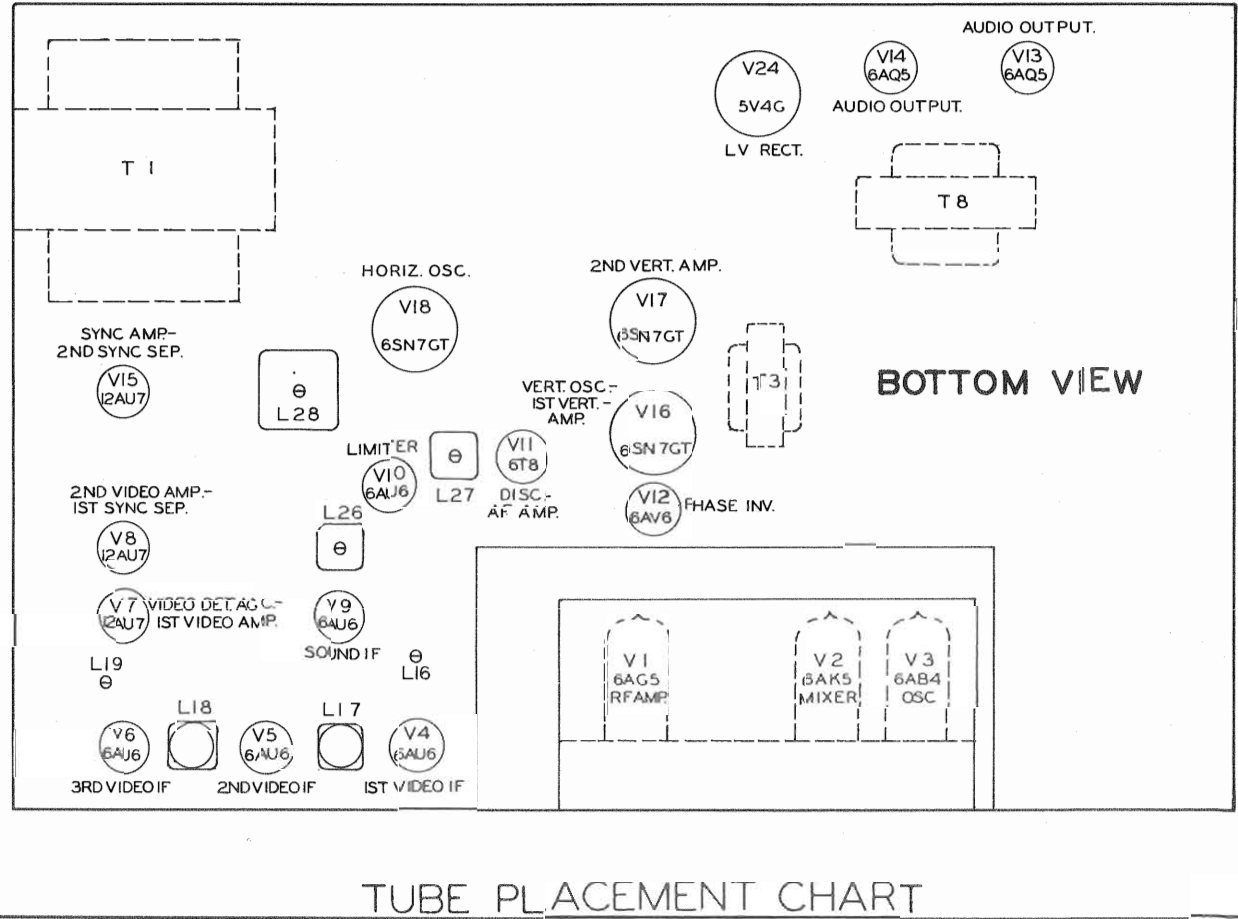
VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS											RESISTANCE READINGS										
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-1VDC	.8VDC	6.3VAC	0V.	145VDC	120VDC	.6VDC			V 1	6AG5	1.4 Meg.	82Ω	.1Ω	0Ω	14KΩ	15KΩ	82Ω		
V 2	6AK5	-.8VDC	0V.	0V.	6.3VAC	215VDC	210VDC	0V.			V 2	6AK5	1 Meg.	0Ω	0Ω	.1Ω	126KΩ	155KΩ	0Ω		
V 3	6AB4	125VDC	0V.	0V.	6.3VAC	0V.	1-4.8VDC	0V.			V 3	6AB4	14KΩ	Inf.	0Ω	.1Ω	Inf.	12KΩ	0Ω		
V 4	6AU6	-.8VDC	0V.	0V.	6.3VAC	115VDC	115VDC	.4VDC			V 4	6AU6	230KΩ	0Ω	0Ω	.1Ω	15KΩ	15KΩ	47Ω		
V 5	6AU6	-.4VDC	0V.	0V.	6.3VAC	115VDC	115VDC	.4VDC			V 5	6AU6	242KΩ	0Ω	0Ω	.1Ω	15KΩ	15KΩ	47Ω		
V 6	6AU6	0V.	0V.	0V.	6.3VAC	175VDC	125VDC	1VDC			V 6	6AU6	4.7KΩ	0Ω	0Ω	.1Ω	19KΩ	14KΩ	150Ω		
V 7	12AU7	-.4VDC	0V.	0V.	6.3VAC	100VDC	100VDC	-.4VDC	0V.	0V.	V 7	12AU7	10KΩ	10KΩ	.5Ω	.1Ω	16.2KΩ	10KΩ	0Ω	0Ω	
V 8	12AU7	250VDC	0V.	15VDC	6.3VAC	6.3VAC	125VDC	0V.	10VDC	0V.	V 8	12AU7	15.7KΩ	1 Meg.	10KΩ	.1Ω	13KΩ	1 Meg.	330KΩ	0Ω	
V 9	6AU6	0V.	0V.	0V.	6.3VAC	110VDC	110VDC	.5VDC			V 9	6AU6	0Ω	0Ω	0Ω	.1Ω	16.2KΩ	82Ω			
V 10	6AU6	-.5VDC	0V.	0V.	6.3VAC	32VDC	32VDC	0V.			V 10	6AU6	47KΩ	0Ω	0Ω	.1Ω	15KΩ	0Ω			
V 11	6T8	-.4VDC	-.4VDC	-.1VDC	6.3VAC	0V.	0V.	0V.	-.5VDC	75VDC	V 11	6T8	100KΩ	100KΩ	200KΩ	.1Ω	0Ω	0Ω	0Ω	10 Meg.	1270KΩ
V 12	6AY6	0V.	0V.	0V.	6.3VAC	0V.	0V.	190VDC			V 12	6AY6	10 Meg.	0Ω	0Ω	.1Ω	0Ω	0Ω	1275KΩ		
V 13	6AG5	0V.	17VDC	6.3VAC	0V.	255VDC	260VDC	0V.			V 13	6AG5	478KΩ	330Ω	0Ω	.1Ω	11.3KΩ	1100Ω	478KΩ		
V 14	6AG5	0V.	17VDC	6.3VAC	0V.	255VDC	260VDC	0V.			V 14	6AG5	470KΩ	330Ω	0Ω	.1Ω	11.3KΩ	1100Ω	470KΩ		
V 15	12AU7	205VDC	0V.	11VDC	6.3VAC	125VDC	125VDC	-.1VDC	5VDC	0V.	V 15	12AU7	148KΩ	1 Meg.	10KΩ	.1Ω	14KΩ	2.4 Meg.	2.2KΩ	0Ω	
V 16	6SN7GT	-2.4VDC	135VDC	0V.	0V.	260VDC	21VDC	6.3VAC	0V.		V 16	6SN7GT	2 Meg.	1 Meg.	2.2 Meg.	2.2 Meg.	43.9KΩ	5KΩ	.1Ω	0Ω	
V 17	6SN7GT	0V.	0V.	0V.	0V.	260VDC	21VDC	6.3VAC	0V.		V 17	6SN7GT	0Ω	0Ω	0Ω	0Ω	2.2 Meg.	3.9KΩ	.1Ω	0Ω	
V 18	6SN7GT	-2.2VDC	105VDC	-.1VDC	0V.	260VDC	3VDC	6.3VAC	0V.		V 18	6SN7GT	1 Meg.	120KΩ	320KΩ	300KΩ	300KΩ	10KΩ	.1Ω	0Ω	
V 19	6BG6G	0V.	6.3VAC	5VDC	200VDC	145VDC	0V.	6.3VAC	0V.	TOP CAP	V 19	6BG6G	Inf.	.1Ω	82Ω	82Ω	45.6KΩ	470KΩ	0Ω	TOP CAP	
V 20	6BG6G	200VDC	6.3VAC	3VDC	0V.	-5.4VDC	200VDC	0V.	200VDC	TOP CAP	V 20	6BG6G	45.6KΩ	.1Ω	82Ω	82Ω	45.6KΩ	470KΩ	0Ω	45.6KΩ	TOP CAP
V 21	6W4GT	0V.	0V.	380VDC	140VDC	300VDC	130VDC	1	1		V 21	6W4GT	Inf.	Inf.	40Ω	42Ω	40Ω	42Ω	40Ω	42Ω	TOP CAP
V 22	1X2	* DO NOT MEASURE									V 22	1X2	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP
V 23	5V4G	0V.	375VDC	0V.	320VAC	0V.	320VAC	0V.	375VDC		V 23	5V4G	Inf.	10KΩ	Inf.	40Ω	0Ω	40Ω	Inf.	10KΩ	
V 24	5V4G	0V.	380VDC	0V.	320VAC	0V.	320VAC	0V.	380VDC		V 24	5V4G	Inf.	60KΩ	Inf.	42Ω	Inf.	42Ω	Inf.	60KΩ	
V 25	19AP4	0V.	3.2VDC	125VDC	50VDC	6.3VAC					V 25	19AP4	0Ω	800KΩ	14KΩ	12KΩ	14KΩ	12KΩ	14KΩ	12KΩ	

FM-TV SWITCH SET FULLY COUNTERCLOCKWISE.
FM-TV SWITCH IN "ON" POSITION.
‡ TAKEN WITH VACUUM TUBE VOLTMETER.
‡ 6.3VAC MEASURED ACROSS FILAMENTS.
* DO NOT MEASURE.

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 panel controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



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ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube (V18) from its socket. Do not attempt to operate this receiver without all of the connecting cables in place.							
VIDEO IF ALIGNMENT							
Remove the local oscillator tube (V3) from its socket to prevent erroneous indications.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
Direct	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	21.75MC	Any	DC Probe to Point  Common to chassis.	A1	Adjust for MINIMUM deflection.	
Direct	"	27.75MC	"	"	A2	"	
Direct	"	24MC	"	"	A3, A4	Adjust for maximum deflection.	
Direct	"	22.75MC	"	"	A5	"	
Direct	"	25.5MC	"	"	A6	"	
Direct	"	24.25MC	"	"	A7	"	
OVERALL VIDEO IF RESPONSE CHECK							
Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Direct	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	25MC (10MC SWP)	21.75MC 26.25MC	Any	Vert. Amp. to Point  Low side to chassis.		Check for response curve similar to figure 1. If necessary retouch A3 thru A7 for optimum response.
SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
Direct	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	21.75MC (Unmod.)	Any	DC Probe thru 1 Meg. to Point  Common to chassis.	A8, A9, A10	Adjust for maximum deflection. Connect a 1000Ω resistor across terminals C and D of L26 while adjusting A8. Remove the resistor from terminals C and D, and connect across terminals A and B when adjusting A9. Remove the resistor and adjust A10.	
Direct	"	"	"	DC Probe to Point  Common to chassis.	All	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
Direct	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	21.75MC (450KC Sweep)	21.75MC	Any	Vert. Amp. thru 1 Meg. to Point  Low side to chassis.	A8, A9, A10	Adjust for maximum amplitude and symmetry as per figure 2.
Direct	"	"	"	"	Vert. Amp. to Point  Low side to chassis.	All	Adjust All so 21.75MC marker occurs at center of crossover lines as per fig. 3. SLIGHTLY retouch A10 for maximum amplitude and straightness of crossover lines.
4.5MC TRAP ADJUSTMENT							
Replace the local oscillator tube in its socket. Turn the set on and tune in a test pattern. Adjust the 4.5MC trap (A12) for maximum vertical wedge definition.							
THE ADJUSTMENTS IN THE RF TUNER PORTION OF THIS RECEIVER HAVE BEEN PRE-SET AT THE FACTORY AND ARE VERY STABLE. ALIGNMENT OF THIS PORTION SHOULD NOT BE REQUIRED IN THE FIELD.							

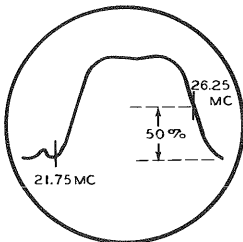


FIG. 1

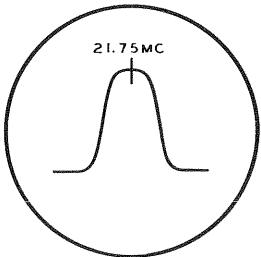


FIG. 2

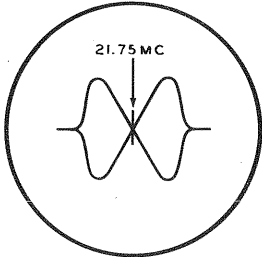
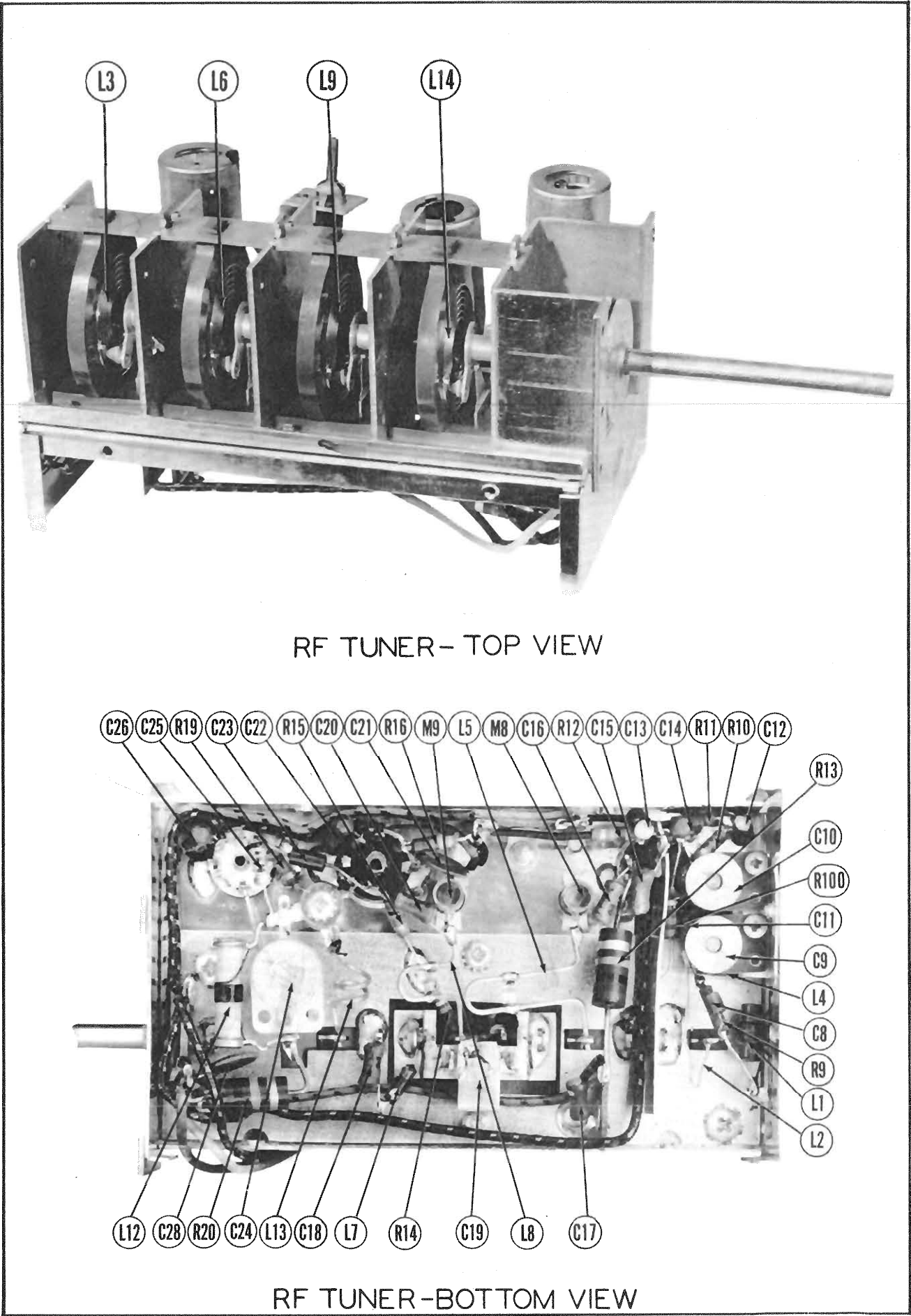
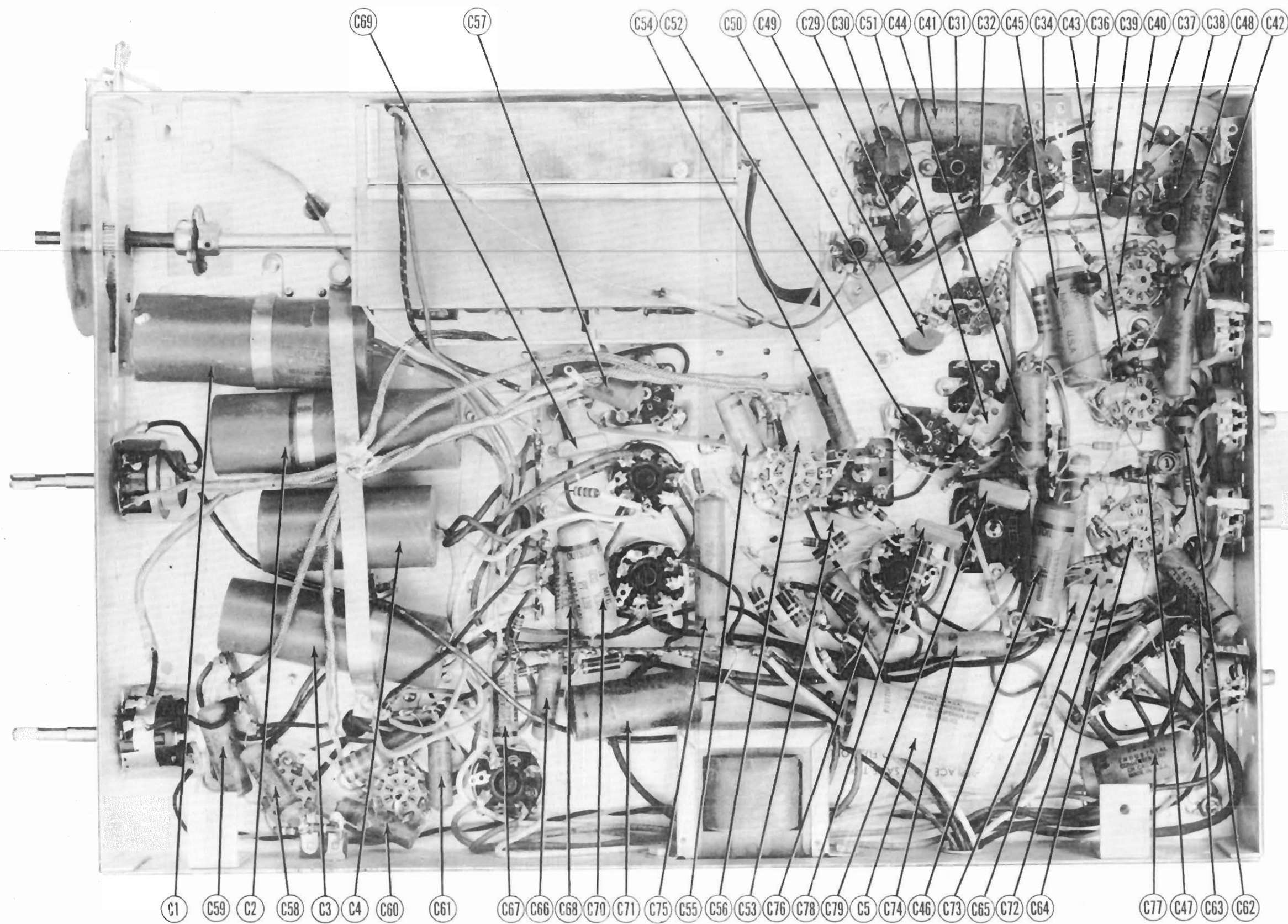
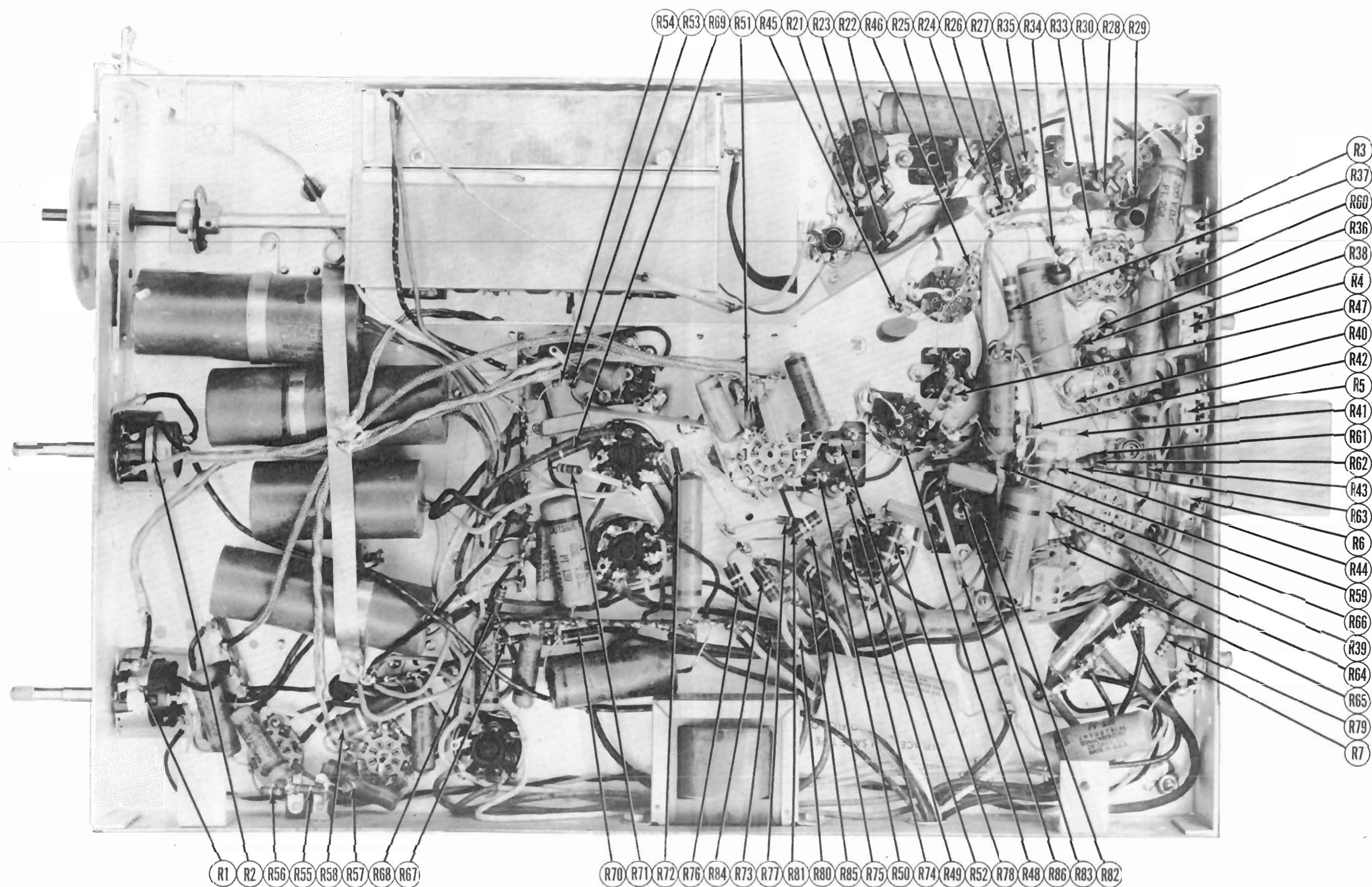


FIG. 3





CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		HALLICRAFTER PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.					
T3	200Ω	1200Ω	55B115	A-8111	A-3000	TBO-1	Vert. Block Osc. Trans. Hor. Output Trans.
T4	420Ω	5.9Ω	55C143		HVO-6		
	Tap Ⓐ	Tap Ⓐ					
	57Ω	.5Ω, 4.5Ω					
		SEC. 2					
T5	1000Ω	0Ω	55B128	A-8113 ⑦	A-3037	TSO-5 ⑤	Vert. Output Trans.
	Tap Ⓐ						
T6A	12Ω		53C186	DY-7	MD-70		Hor. Deflection Coil Vert. Deflection Coil Focus Coil
T6B	11Ω						
T7	61Ω		51C1128				
	450Ω						

⑤ Drill one new mounting hole.
⑦ Connect windings in series.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		Hallicrafters PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T8	6.6KΩ CT	3.3Ω	600Ω CT	.7Ω	55B142	A-3830 ⑤	A-2904 ⑤	RO-401	⑤ Drill one new mounting hole.

COILS (RF-IF)

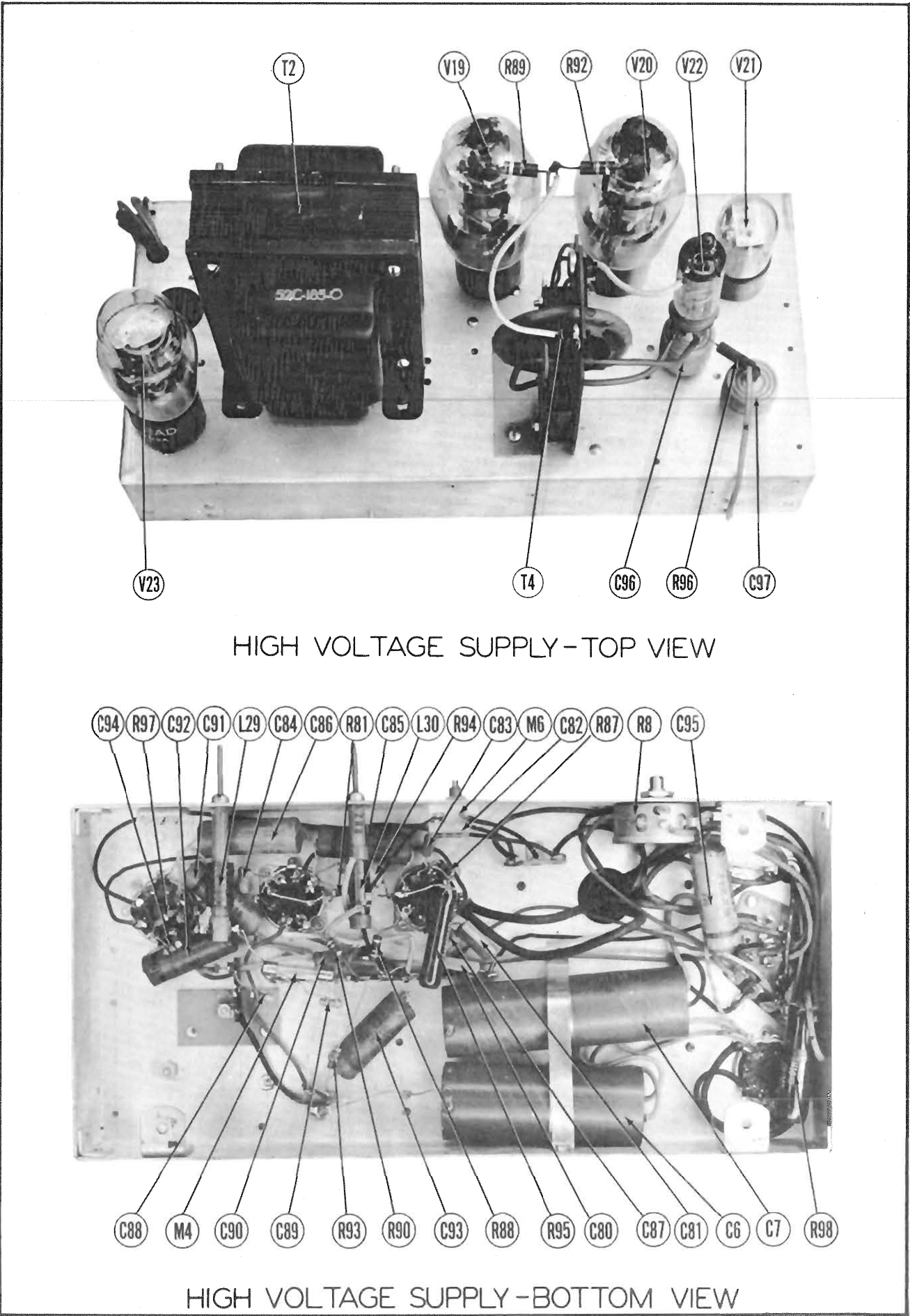
ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	HALLICRAFTER PART No.	MEISSNER PART No.	
L1	Ant. Trans.	0Ω	0Ω			L1 to L15 are part of tuner #1D885
L2	RF Grid End Inductor	0Ω				
L3	RF Grid	0Ω				
L4	RF Grid	0Ω				
L6	RF Plate End Inductor	0Ω				
L6	RF Plate	0Ω				
L7	Band Pass	0Ω				
L8	Mixer Grid					
	End Inductor	0Ω				
L9	Mixer Grid	0Ω				
L10	Band Pass	0Ω				
L11	Band Pass	0Ω				
L12	Osc. Shunt	0Ω				
L13	Osc. End. Inductor	0Ω				
L14	Osc. Coil	0Ω				
L15	Conv. Trans.	0Ω	0Ω			
L16	1st Video IF	0Ω	.2Ω	50B451		With trap With trap
L17	2nd Video IF	.1Ω		50B445		
L18	3rd Video IF	.1Ω		50B444		
L19	4th Video IF	.2Ω	.2Ω	50A431		
L20	Peaking	6.9Ω		51A190		Wound on 1 Megohm resistor
L21	Peaking	19Ω		51A189		Wound on 1 Megohm resistor
L22	Peaking	9.3Ω		51A154		Wound on 1 Megohm resistor
L23	Peaking	9.3Ω		51A154		Wound on 1 Megohm resistor
L24	Peaking	18.2Ω		51A155		Wound on 1 Megohm resistor
L25	4.5MC Sound Trap	1Ω		50A450		
L26	Sound IF	.2Ω	.2Ω	50B446		
L27	Disc. Trans.	.1Ω	.1Ω	50B447		
L28	Horiz. Osc. Trans.	130Ω	38Ω	51A153		
L29	Horiz. Lin.	32Ω		51B1071		
L30	Width	.2Ω		51B1072-1		

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					HALLIDAY PART No.		
M1	Bayonet	6-8	.15	Brown	39A004		Type #47

MISCELLANEOUS

ITEM No.	PART NAME	HALLIDAY PART No.	NOTES
M2	RF Tuner	1D885	
M3	Fuse	39A346	5A 250V
M4	Fuse	39A338	.25A 250V
M5	Ion Trap	21A104	
M6	Trimmer	44A361	Horiz. drive
M7	Antenna Assembly	1A892	
M8	Trimmer		RF Plate Tuning Model 605
M9	Trimmer		Tuning Model 606
	Knob	15B182	Off-On Volume Model 605
	Knob	15B193	Off-On Volume Model 606
	Knob	15B180	FM-Picture Model 605
	Knob	15B191	FM-Picture Model 606
	Knob	15B180	Antenna Tuning Model 605
	Knob	15B191	Antenna Tuning Model 606
	Knob	15B215	Model 605
	Knob	15B216	Model 606
	Safety Glass	22E271	
	Safety Glass	22E272	



HIGH VOLTAGE SUPPLY-TOP VIEW

HIGH VOLTAGE SUPPLY-BOTTOM VIEW

HALLIDAY
MODELS 605, 606

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		HALLICRAFTER PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6AG5	6AG5	7BD	
V2	Mixer	6AK5	6AK5	7BD	
V3	Oscillator	6AB4	6AB4	5CE	
V4	1st Video IF	6AU6	6AU6	7BK	
V5	2nd Video IF	6AU6	6AU6	7BK	
V6	3rd Video IF	6AU6	6AU6	7BK	
V7	Video Det. -AGC-				
V8	1st Video Amp.	12AU7	12AU7	9A	
V9	2nd Video Amp. -				
V10	1st Sync. Sep.	12AU7	12AU7	9A	
V11	Sound IF Amp.	6AU6	6AU6	7BK	
V12	Limiter	6AU6	6AU6	7BK	
V13	Disc. -AF Amp.	6T8	6T8	9E	
V14	Phase Inv.	6AV6	6AV6	7BT	
V15	Audio Output	6AQ5	6AQ5	7BZ	
V16	Audio Output	6AQ5	6AQ5	7BZ	
V17	Sync. Amp. -2nd				
V18	Vert. Osc. -1st	12AU7	12AU7	9A	
V19	Vert. Amp.	6SN7GT	6SN7GT	8BD	
V20	2nd Vert. Amp.	6SN7GT	6SN7GT	8BD	
V21	Hor. Osc.	6SN7GT	6SN7GT	8BD	
V22	Hor. Output	6BG6G	6BG6G	5BT	
V23	Hor. Output	6BG6G	6BG6G	5BT	
V24	Damper	6W4GT	6W4GT	4CG	
V25	HV Rect.	1X2	1X2	7CB	
V26	LV Rect.	5V4G	5V4G	5L	
V27	LV Rect.	5V4G	5V4G	5L	
V28	Picture Tube	19AP4	19AP4	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		RMA BASE TYPE	NOTES
		HALLICRAFTER PART No.	STANDARD REPLACEMENT		
C1A	40 450	45A159	PRSA450/40-40	EDJ10118	TVL-64 †
C2	80 450	45B158	PRSA450/40-40	EZ10074	TVL-9 †
C3A	10 450	45B157	PRSA450/10-10	EDL8D45	TVL-39 †
C3B	10 450		Use Two		
C3C	10 450		Use Two		
C4A	50 250	45B165 *	PRSA450/40-40	BR5025	TVA-82
C4B	75 50		PRSA450/100	BRH501	TVA-17
C5A	8 475	45B139	PRSA450/8-8	BRD1145A	TVA-25
C5B	8 475				
C6A	40 450	45A159	PRSA450/40-40	EDJ10118	TVL-64 †
C6B	40 450				
C7	80 450	45B158	PRSA450/40-40	EZ10074	TVL-9 †
C8	2.5 50	47A160-4			
C9	8-50				
C10	3-12				
C11	30	47X20UK300M	S130JNPO	D2-30	Fixed Trimmer
C12	470	47X20UK471J	GP470M	D6-471	AGC Filter
C13	470	47X20UK471J	GP470M	D6-471	RF Screen Bypass
C14	470	47X20UK471J	GP470M	D6-471	RF Cath. Bypass
C15	470	47X20UK471J	GP470M	D6-471	RF Fil. Bypass
C16	100	47B20101K5	GP100M	D6-101	RF Coupling
C17	470	47X20UK471J	GP470M	D6-471	RF Bypass
C18	100	47B20101K5	GP100M	D6-101	Fixed Trimmer
C19	125	47X20UK121J	GP100M	D6-101	Fixed Trimmer
C20	100	47B20101K5	GP100M	D6-101	RF Coupling
C21	5000	47A168	BPD-5	D6-502	Mixer Screen Bypass
C22	470	47X20UK471J	GP470M	D6-471	Mixer Fil. Bypass
C23	1	47A160-2		D2-1	Osc. Coupling
C24	3-12				Variable Trimmer
C25	5	47X20UK1050M	S130JNPO	D2-4.7	Osc. Grid Cap.
C26	470	47X20UK471J	GP470M	D6-471	Osc. Filament Bypass
C27	5000	47A168	BPD-5	D6-502	Mixer Plate Decoup.
C28	5000	47A168	BPD-5	D6-502	RF Bypass
C29	5000	47A168	BPD-5	D6-502	AGC Filter
C30	5000	47A168	BPD-5	D6-502	1st V. IF Decoup.
C31	27C	47B20271K5	GP270M	D6-271	IF Coupling
C32	5000	47A168	BPD-5	D6-502	AGC Filter
C33	47		CN47JNPO	D2-47	Fixed Trimmer
C34	5000	47A168	BPD-5	D6-502	2nd V. IF Decoup.
C35	47		CN47JNPO	D2-47	Fixed Trimmer
C36	270	47B20271K5	GP270M	D6-271	IF Coupling
C37	5000	47A168	BPD-5	D6-502	RF Bypass
C38	5000	47A168	BPD-5	D6-502	3rd V. IF Cath. Byp.
C39	5000	47A168	BPD-5	D6-502	3rd V. IF Plate Dec.
C40	5	47X20UK1050M	GP5K	D2-4.7	V. Diode Filter
C41	25 200	46A2T54J	P488-25		AGC Filter
C42	05 200	46A2T54J	P288-05		TC-2
C43	56 500	47X20A560K	1468-00005	D6-560	Video Coupling
C44	02 500	46A2T54J	P488-02		2nd V. Amp. Cath. Byp.
C45	25 200	46A2T54J	P488-25		TC-2
C46	1 600	46A2T54J	P288-1		DC Res. Cath. Byp.
C47	47		CN47JNPO	D2-47	Fixed Trimmer
C48	1 200	46A2T54J	P288-1		Fixed Trimmer
C49	5000	47A168	BPD-5	D6-502	1st V. IF Decoup.
C50	5000	47A168	BPD-5	D6-502	1st V. IF Cath. Byp.
C51	47	47X20A470M	1468-00005	D6-470	Limiter Grid Filter
C52	5000	47A168	BPD-5	D6-502	Limiter Decoup.
C53	270	47X20A271M	1468-00025	D6-271	RF Bypass
C54	01 600	46A2T54J	P688-01	D6-103	Audio Coupling

CAPACITORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		HALLICRAFTER PART No.	STANDARD REPLACEMENT		
C55	005 600	46A2T54J	P688-005	D6-502	PTE6D5
C56	220 500	47X20A221M	1468-00025	D6-221	5W5T25
C57	02 600	46A2T54J	P688-02	D6-502	PTE6D5
C58	005 600	46A2T54J	P688-005	D6-502	PTE6D5
C59	02 600	46A2T54J	P688-02	D6-502	PTE6D5
C60	003 600	46A2T54J	P688-003	D6-302	PTE6D5
C61	003 600	46A2T54J	P688-003	D6-302	PTE6D5
C62	01 600	46A2T54J	P688-01	D6-103	PTE6D5
C63	1 200	46A2T54J	P288-1	D6-103	PTE6D5
C64	100	47B20101K5	GP100M	D6-101	5W5T1
C65	1000	47X20A102K	1468-001	D6-102	1W5D1
C66	002 600	46A2T54J	P688-002	D6-202	PTE6D5
C67	005 600	46A2T54J	P688-005	D6-502	PTE6D5
C68	005 600	46A2T54J	P688-005	D6-502	PTE6D5
C69	4700	500	47X35A472M	1467-005	1D5D5
C70	1 600	46A2T54J	P688-1	D6-472	PTE6D5
C71	25 600	46A2T54J	P688-25	D6-101	5W5T1
C72	180 500	47X20A181M	1468-0002	D6-181	5W5T2
C73	220 500	47X20A221M	1468-0002	D6-221	5W5T25
C74	002 600	46A2T54J	P688-002	D6-202	PTE6D5
C75	25 200	46A2T54J	P488-25	D6-202	GT2P25
C76	02 600	46A2T54J	P688-02	D6-202	PTE6D5
C77	1 600	46A2T54J	P688-1	D6-202	PTE6D5
C78	390 500	47X20A391M	1468-0004	D6-391	5W5T4
C79	10000	500	47X35A103K	1467-01	1D3S1
C80	1000	500	47X20A102K	1468-001	D6-102
C81	1000	500	47X20A102K	1468-001	D6-102
C82	100	500	47X20A101K	1468-0001	D6-101
C83	1000	500	47B20A102M5	GP1000M	D6-101
C84	1000	500	47B20A102M5	GP1000M	D6-101
C85	05 600	46A2T54J	P688-05	D6-102	1W5D1
C86	25 200	46A2T54J	P488-25	D6-102	GT2P25
C87	1000	500	47B20A102M5	GP1000M	D6-102
C88	68	47B20680K5	GP68K	D6-68	5W5Q7
C89	68	47B20680K5	GP68K	D6-68	5W5Q7
C90	1000	500	47B20A102M5	GP1000M	D6-102
C91	035 600	46A2T54J	P688-035	D6-102	1W5D1
C92	05 600	46A2T54J	P688-05	D6-102	5W5Q7
C93	1 600	46A2T54J	P688-1	D6-102	5W5Q7
C94	5	47X20UK1050M	GP5K	D2-4.7	5W5V5
C95	25 200	46A2T54J	P488-25	D2-4.7	GT2P25
C96	500	20000	47A216	TV2-502	
C97	500	20000	47A216	TV2-502	
C98	01 600	46B1013L6	P688-01	D6-102	PTE6S1
C99	01 600	46B1013L6	P688-01	D6-102	PTE6S1

* Some models use 100MFD/155V, 150MFD/50V (Migr's Part No. 45B156) in this application.
† Use mounting strap.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		HALLICRAFTER PART No.	STANDARD REPLACEMENT		
R1A	1 Meg.	25A872	Q13-137	AM-63-Z	Volume control
R1B	Shaft	Not Req.	Not Req.	KSS-3	Attach to R1A per instructions
R1C	Switch	Not Req.	Not Req.	SW-A	Attach to R1A per instructions
R2	10KΩ	25B790	Q11-123	M-44-S	Contrast control and FM-TV switch
R3A	50KΩ	25A858	Q11-123	AN-31	Brightness control
R4A	5000Ω	25B712	Q11-114	M-19-S	Attach to R3A per instructions
R5A	2.5 Meg.	25B711	Q11-239	M-84-S	Vert. linearity control
R6A	1 Meg.	25A857	Q11-137	AN-66	Attach to R5A per instructions
R7A	50KΩ	25A858	Q11-123	M-61-S	Vert. hold control
R8	2500Ω	25B870	Not Req.	AN-1	Attach to R6A per instructions

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		HALLICRAFTER PART No.	STANDARD REPLACEMENT		
R10	12KΩ	25X20X123K	BTS-2200		Ant. Loading
R11	2200Ω	25X20X222K			RF Grid
R12	1.2 Meg.	25X20X125K			AGC Network
R13	47KΩ	25X20X473K			RF Screen
R14	50KΩ	25X40X103K			RF Plate
R15	12KΩ	25X20X123K			Mixer Coil Shunt
R16	1 Meg.	25X20X105K			Mixer Grid
R17	150KΩ	25X20X154K			Mixer Screen
R18	5100Ω 5%	25X20X223K			Mixer Plate Transformer Shunt
R19	12KΩ	25X20X123K			Mixer Plate Decoupling
R20	10KΩ	25X40X103K			Osc. Plate
R21	470	25X20X470K			1st Video IF Cathode
R22	1000Ω	25X20X102K			1st Video IF Decoupling
R23	150Ω	25X20X151K			AGC Network
R24	150Ω	25X20X151K			AGC Network
R25	12KΩ	25X20X123K			2nd Video IF Grid
R26	470	25X20X470K			2nd Video IF Cathode
R27	1000Ω	25X20X102K			2nd Video IF Decoupling
R28	4700Ω	25X20X472K			3rd Video IF Grid
R29	150Ω	25X20X151K			3rd Video IF Cathode
R30	18KΩ	25X30X183K			3rd Video IF Plate Decoupling
R31	3300Ω	25X30X332K			Filter
R32	3000Ω	14BG302E			Filter-Wire Wound
R33	4700Ω	25X20X472K			4th Video IF Transformer Shunt
R34	10KΩ	25X20X103K			Video Det. Load
R35	220KΩ	25X20X224K			AGC Network
R36	22KΩ	25X20X223K			Peaking Coil Shunt

RESISTORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		RMA CODE	DESCRIPTION
		HALLICRAFTER	IRC		
	RESISTANCE	WATTS	PART No.	PART No.	IDENTIFICATION CODES
R37	2200Ω	1	23X30X222K	BTA-2200	1st Video Amp. Plate
R38	1 Meg. 20%	1	23X20X105M	BTS-1 Meg.	2nd Video Amp. Grid
R39	4700Ω	2	23X40X472K	BT-2-4700	2nd Video Amp. Plate
R40	330KΩ	1	23X20X334K	BTS-330K	1st Sync. Sep. Cathode
R41	47KΩ	1	23X20X473K	BTS-47K	1st Sync. Sep. Grid
R42	1 Meg. 20%	1	23X20X105M	BTS-1 Meg.	1st Sync. Sep. Grid
R43	27KΩ	1	23X20X273K	BTS-27K	1st Sync. Sep. Plate
R44	470KΩ 20%	1	23X20X474M	BTS-470K	Picture Tube Grid
R45	82Ω	1	23X20X820K		Sound IF Cathode
R46	2200Ω	1	23X20X222K	BTS-2200	Sound IF Decoupling
R47	47KΩ	1	23X20X473K	BTS-47K	Limiter Grid
R48	47KΩ	1	23X20X473K	BTS-47K	Limiter Decoupling
R49	100KΩ	1	23X20X104K	BTS-100K	Disc. Diode Load
R50	100KΩ	1	23X20X104K	BTS-100K	Disc. Diode Load
R51	10 Meg. 20%	1	23X20X106M	BTS-10 Meg.	AF Amp. Grid
R52	270KΩ 20%	1	23X20X274M	BTS-270K	AF Amp. Plate
R53	10 Meg. 20%	1	23X20X106M	BTS-10 Meg.	Phase Inv. Grid
R54	270KΩ 20%	1	23X20X274M	BTS-270K	Phase Inv. Plate
R55	8200Ω	1	23X20X822K	BTS-8200	Output Grid
R56	470KΩ 20%	1	23X20X474M	BTS-470K	Output Grid
R57	470KΩ 20%	1	23X20X474M	BTS-470K	Output Grid
R58	350Ω	2	23X40X331K	BW-2-330	Output Cathode
R59	180KΩ 20%	1	23X20X184K	BTS-180K	Voltage Divider
R60	15KΩ 20%	1	23X20X155K	BTS-15K	Voltage Divider
R61	1 Meg. 20%	1	23X20X105M	BTS-1 Meg.	Syn. Amp. Grid
R62	10KΩ	1	23X20X103K	BTS-10K	Syn. Amp. Cathode
R63	47KΩ	1	23X20X473K	BTS-47K	Syn. Amp. Plate
R64	2200Ω	1	23X20X222K	BTS-2200	2nd Sync. Sep. Cathode
R65	2.2 Meg. 20%	1	23X20X225M	BTS-2.2 Meg.	2nd Sync. Sep. Grid
R66	22KΩ	1	23X20X223K	BTS-22K	Integrator Network
R67	8200Ω	1	23X20X822K	BTS-8200	Integrator Network
R68	8200Ω	1	23X20X822K	BTS-8200	Integrator Network
R69	1 Meg.	1	23X20X105K	BTA-1 Meg.	Vert. Osc. Grid
R70	1 Meg. 20%	1	23X30BF105K		Vert. Osc. Plate
R71	3300Ω	1	23X20X332K	BTS-3300	Vert. Peaking
R72	2.2 Meg. 20%	1	23X20X225M	BTS-2.2 Meg.	Vert. Amp. Grid
R73	2200Ω	1	23X30X222K	BTA-2200	Decoupling
R74	820KΩ 20%	1	23X20X824M	BTS-820K	Horiz. AFC Grid
R75	150KΩ 20%	1	23X20X154M	BTS-150K	Horiz. AFC Cathode
R76	150KΩ	1	23X30BF154K		Horiz. AFC Cathode
R77	8200Ω	1	23X20X822K		Horiz. AFC Filter Network
R78	2.7 Meg.	1	23X30BF275K	BTS-8200	Voltage Divider
R79	82KΩ	1	23X20X823K	BTS-82K	Voltage Divider
R80	120KΩ	1	23X20X124K	BTS-120K	Voltage Divider
R81	120KΩ 5%	1	23X30BF124J		Horiz. Osc. Grid
R82	8200Ω	1	23X20X822K	BTS-8200	Horiz. Osc. Transformer Shunt
R83	22KΩ	1	23X20X223K	BTS-22K	Horiz. Osc. Transformer Shunt
R84	120KΩ 5%	1	23X30BF124J		Horiz. Osc. Plate
R85	10KΩ	1	23X30X103K	BTA-10K	Filter
R86	150KΩ 20%	1	23X20X154M	BTS-150K	Horiz. AFC Filter
R87	100Ω	1	23X20X101K		Parasitic Supp.
R88	47Ω	1	23X20X470K		Parasitic Supp.
R89	39Ω	1	23X30X390K		Parasitic Supp. -See Note
R90	47Ω	1	23X20X470K		Parasitic Supp.
R91	105Ω	1	23X20X101K		Parasitic Supp.
R92	39Ω	1	23X30X390K		Parasitic Supp. -See Note
R93	470KΩ 20%	1	23X20X474M	BTS-470K	Horiz. Output Grid
R94	82Ω	2	23X30X820K	BW-2-82	Horiz. Output Cathode
R95	5000Ω	10	24BG502D	AB-5000	Horiz. Output Screen-Wire Wound
R96	1 Meg. 20%	1	23X30X105M		iF Filter
R97	560KΩ	1	23X20X564K	BTS-560K	Feedback
R98	10KΩ	20	24BH103D	DG-10000	Bleeder-Wire Wound
R99	1000Ω	20	24BH102E	DG-1000	Filter-Wire Wound
R100	82Ω	1	23X20X820K		RF Cathode