

TEMPLE
MODELS TV-1776, TV-1777,
TV-1778, TV-1779

TEMPLE MODEL TV-1776

TRADE NAME Temple Models, TV-1776, TV-1777, TV-1778, TV-1779
MANUFACTURER Templetone Radio Mfg. Corp., Garfield Ave., New London, Conn.
TYPE SET Television Receiver
TUBES Seventeen

POWER SUPPLY 105-120 Volts, 50-60 Cycles AC RATING 1.0 Amp. @ 117 Volts
TUNING RANGE—Channels 2 through 13

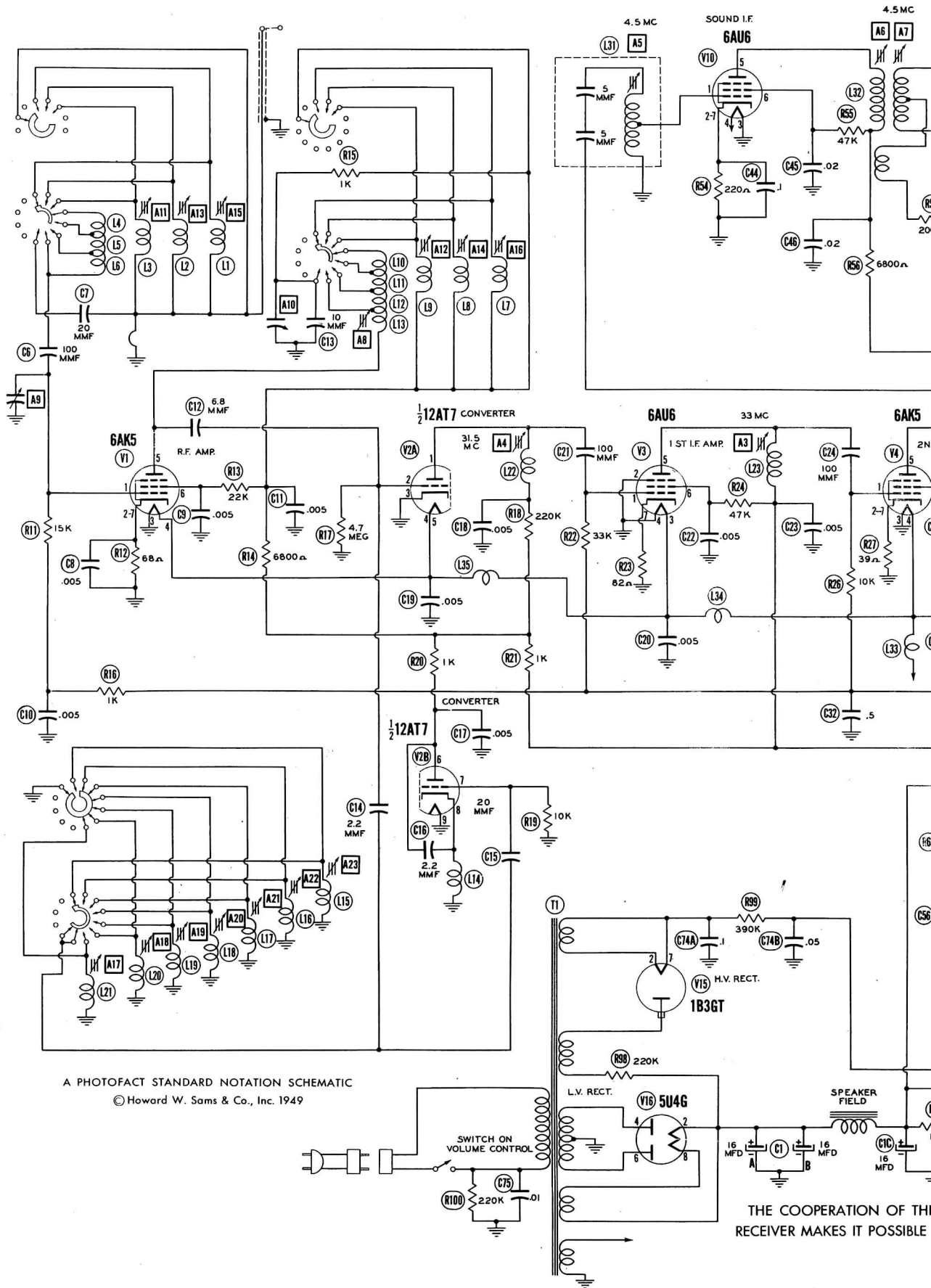
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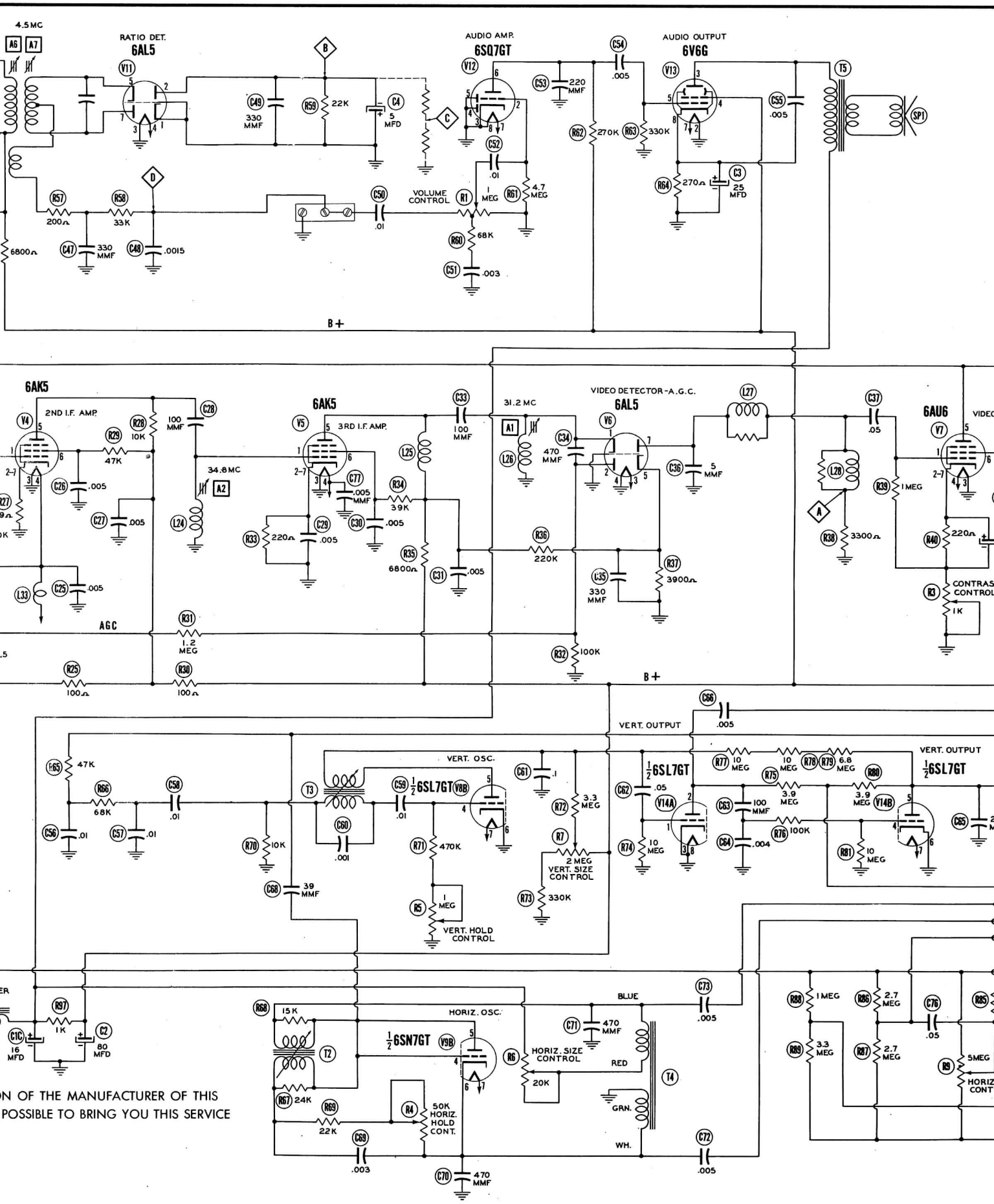
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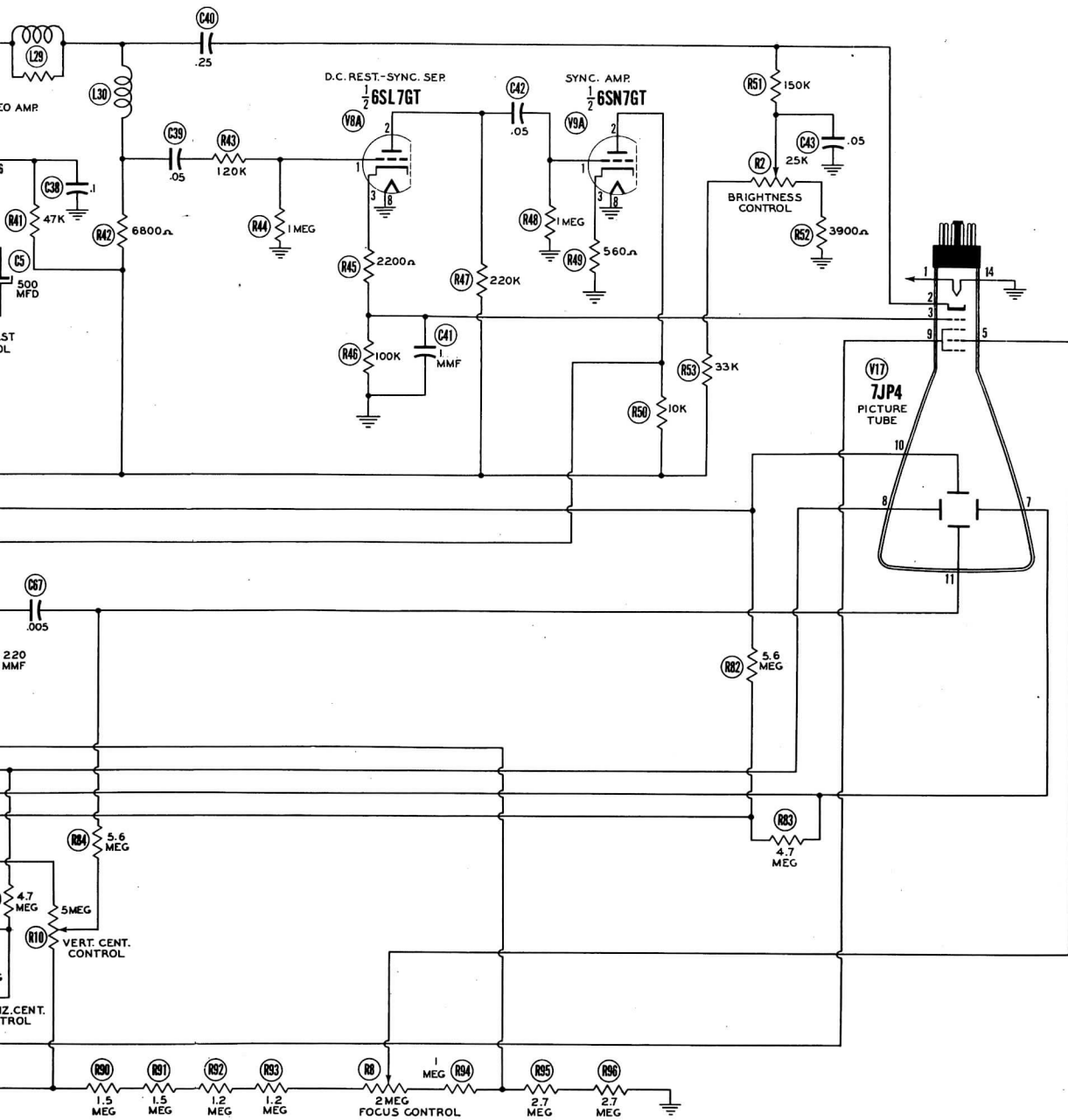


A PHOTOFAC STANDARD NOTATION SCHEMATIC
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THE COOPERATION OF THE
 RECEIVER MAKES IT POSSIBLE

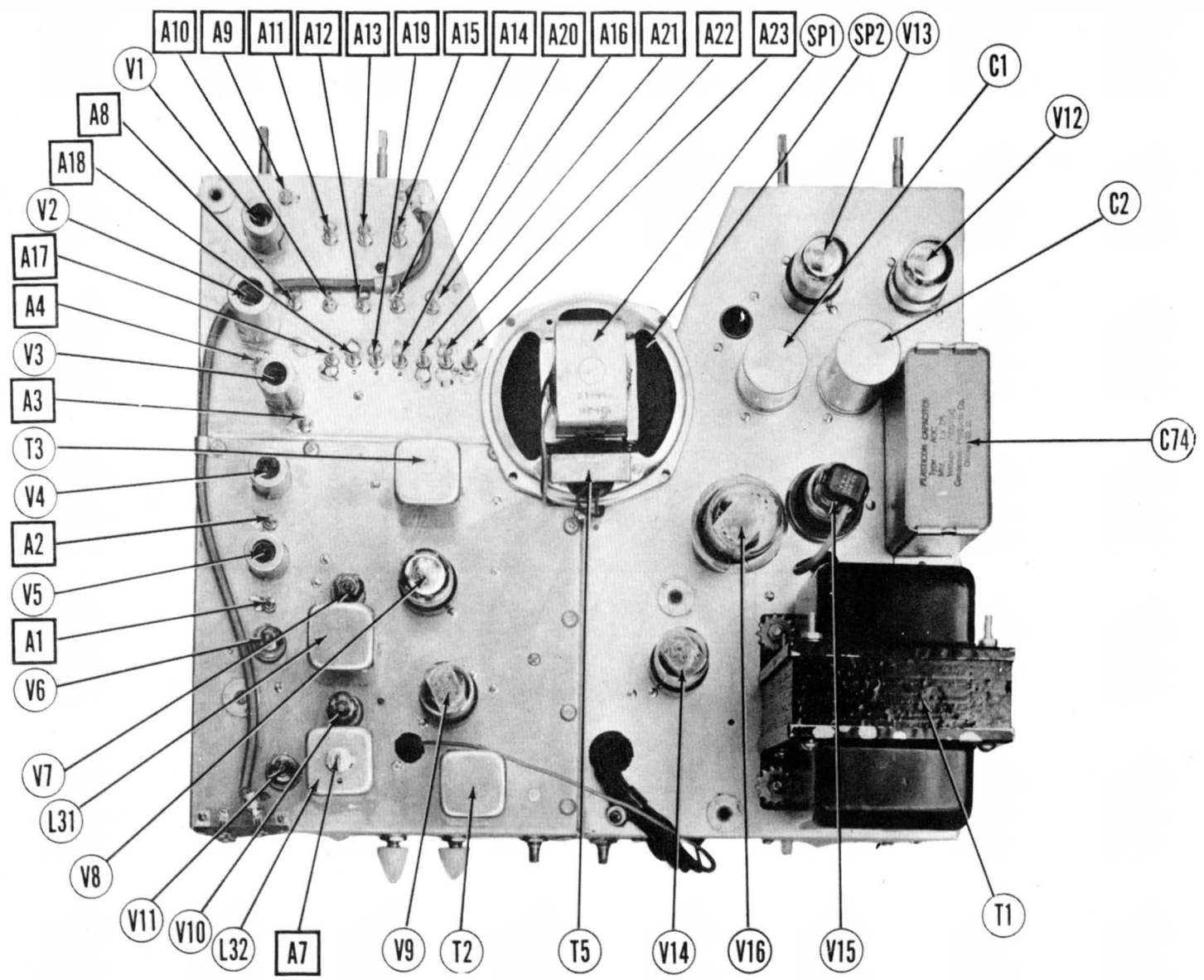


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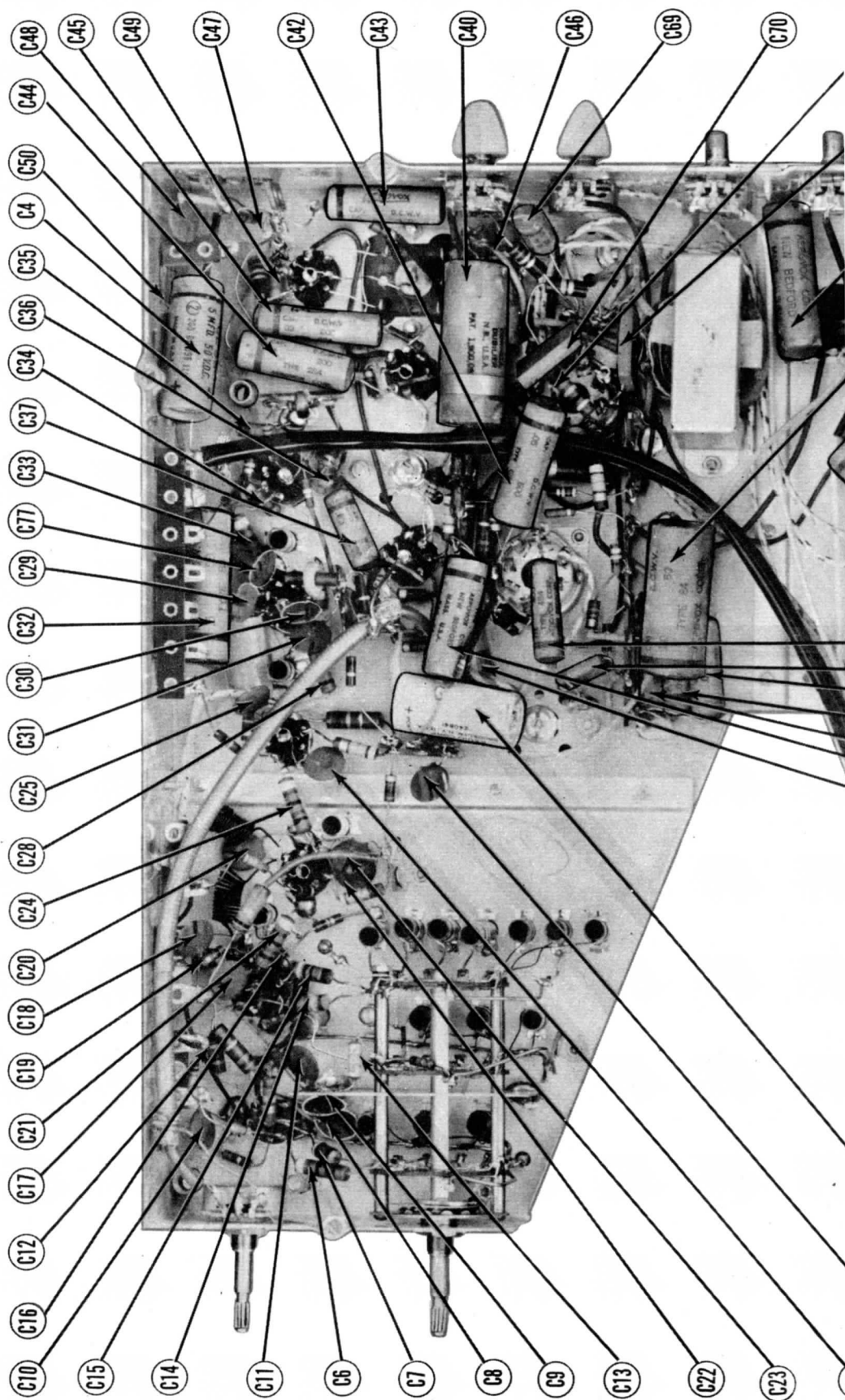


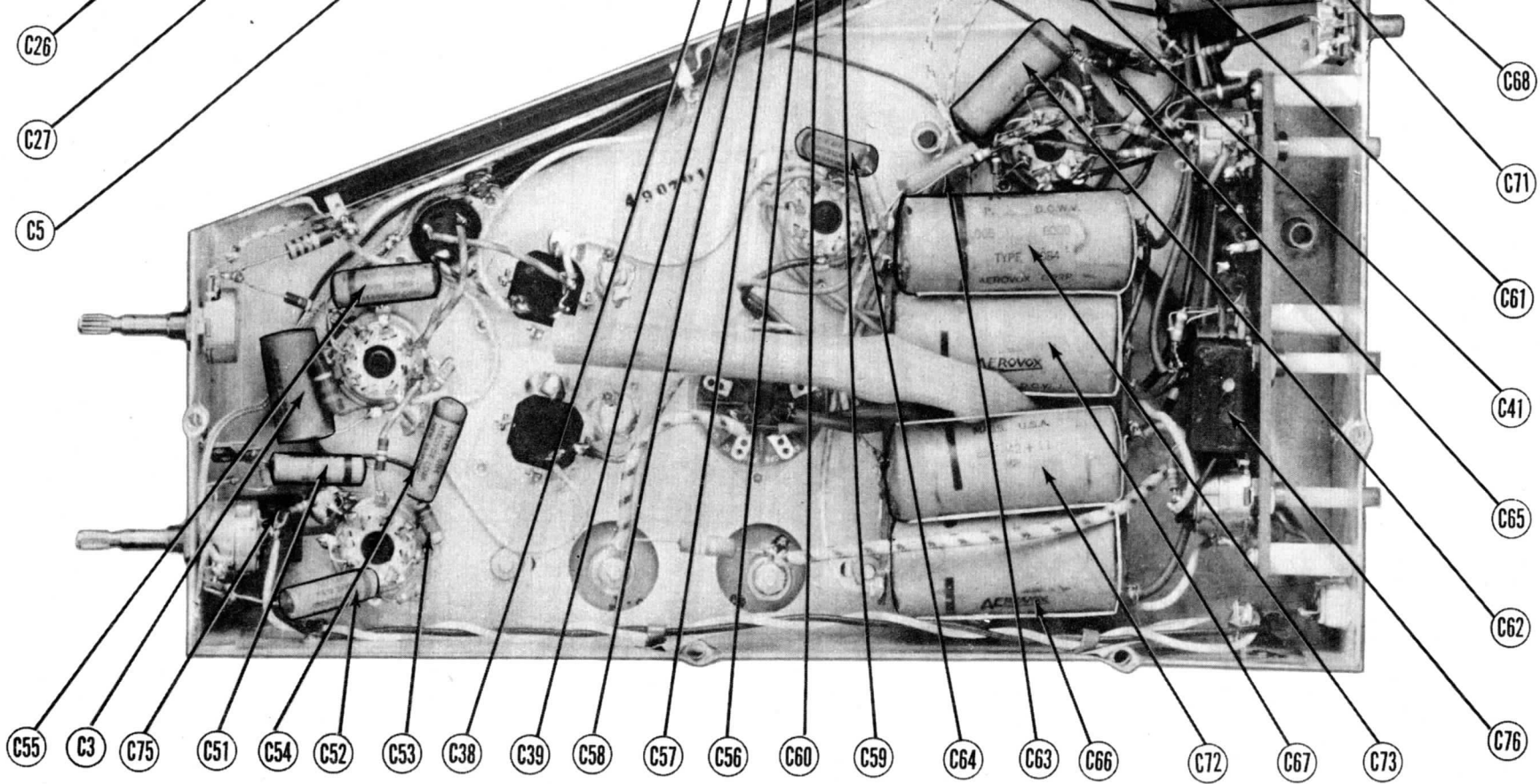
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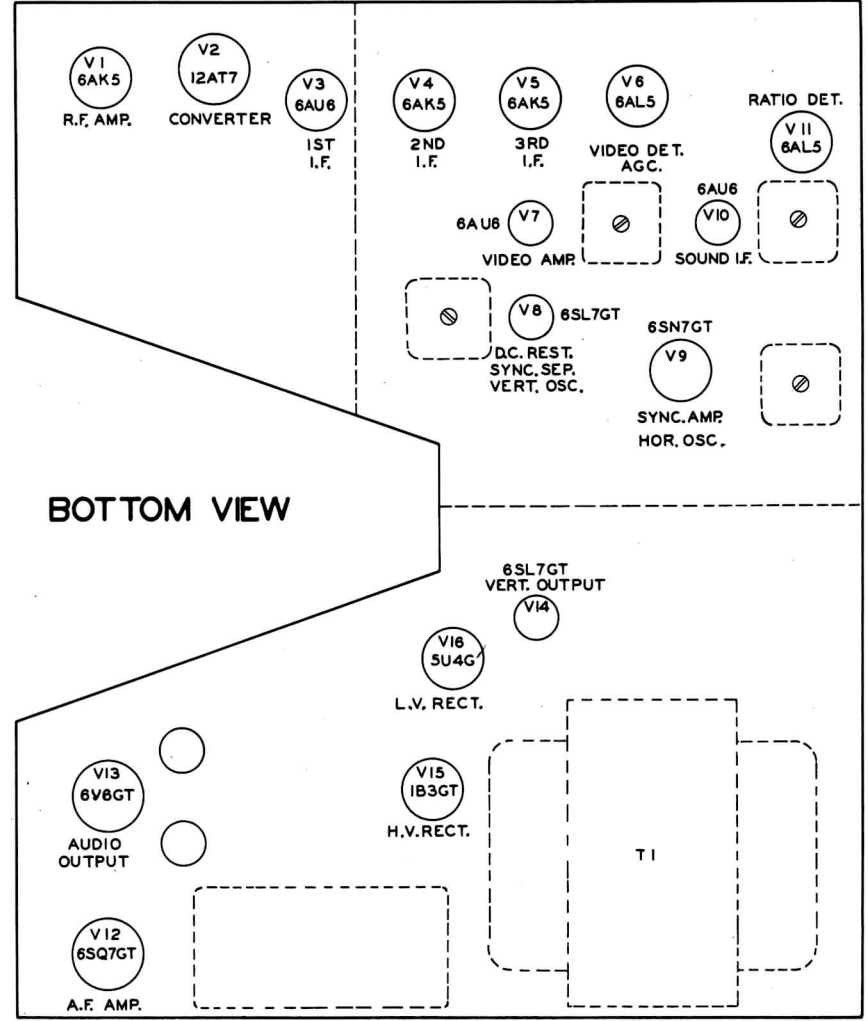
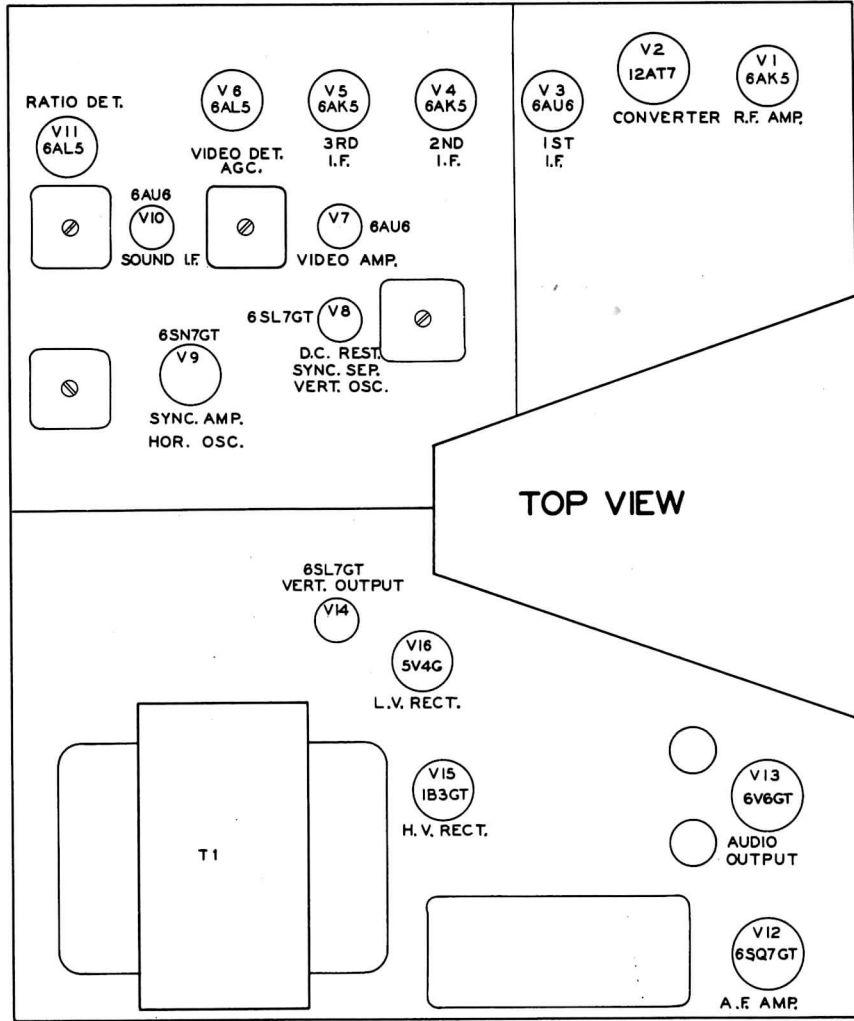
CHASSIS TOP VIEW





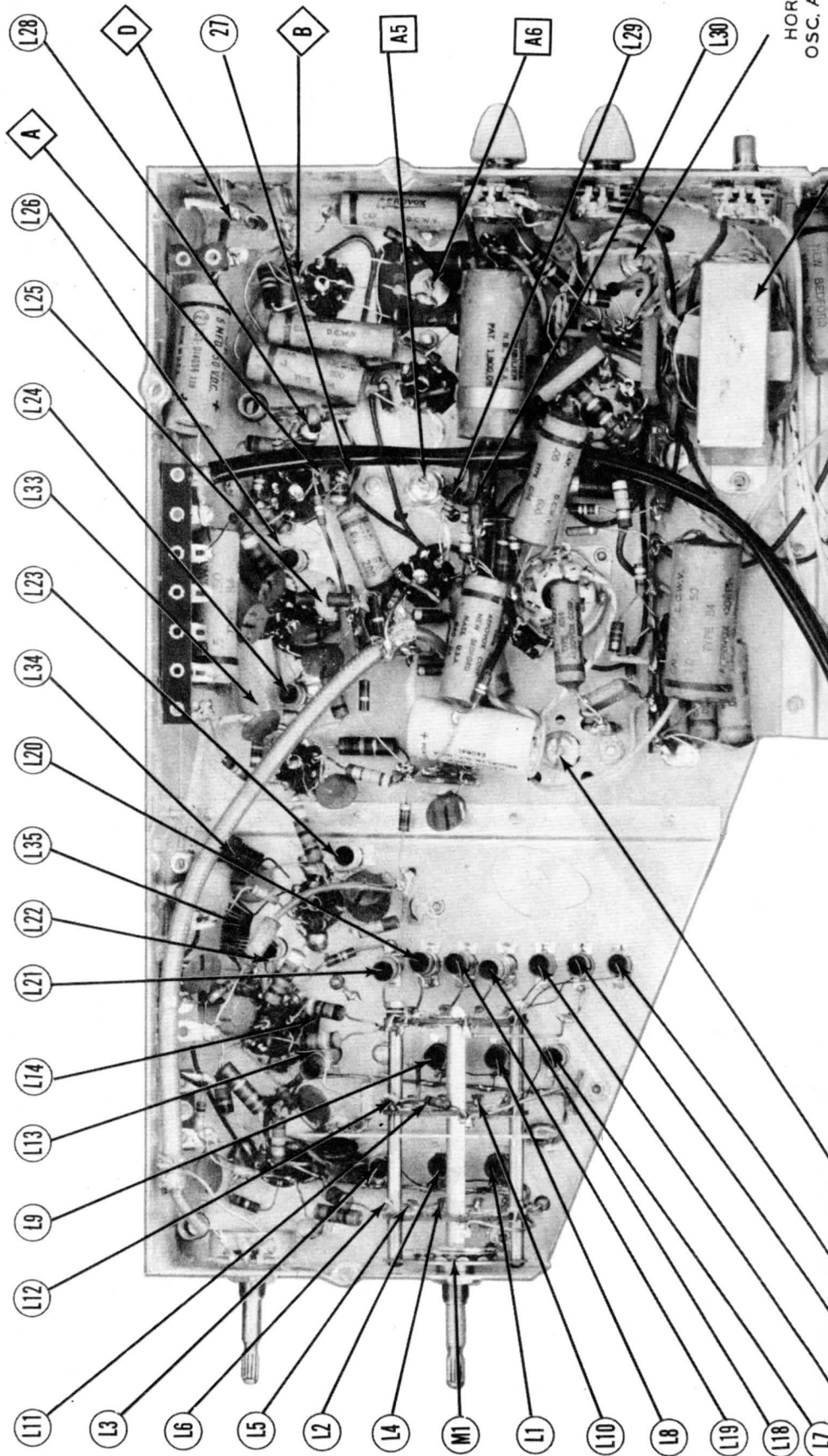
CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

TEMPLE
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TUBE PLACEMENT CHART

TEMPLE
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TV-1778, TV-1779



T4

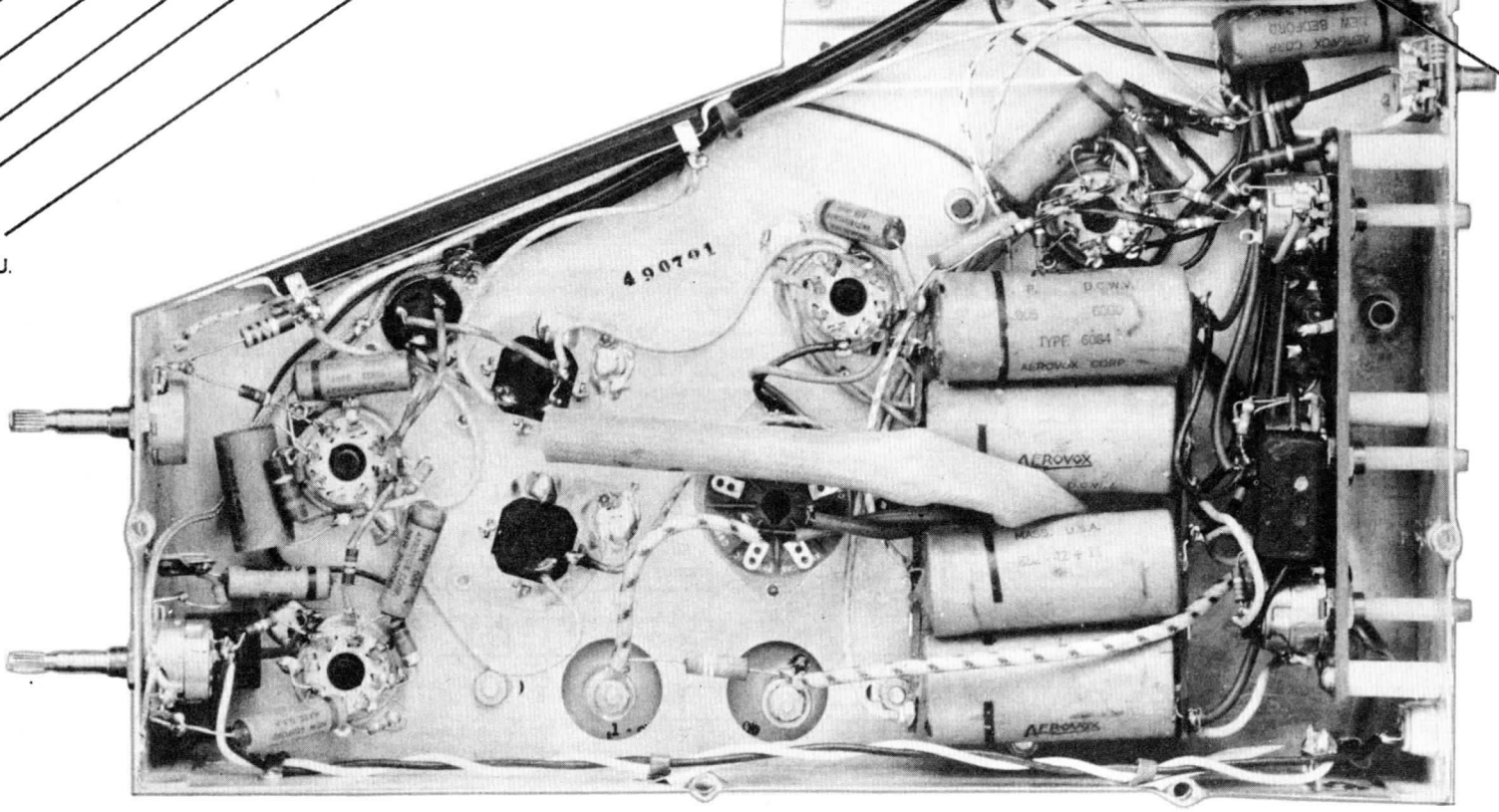
L7

L17

L16

L15

VERT.
OSC. ADJ.



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

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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	6AK5	-.6VDC	.6VDC	0V	6.4VAC	210VDC	108VDC	.6VDC							
V 2	12AT7	38VDC	-3.5VDC	0V	6.4VAC	6.4VAC	235VDC	\$-4.6VDC	0V	0V					
V 3	6AU6	-.6VDC	0V	6.4VAC	0V	235VDC	140VDC	.6VDC							
V 4	6AK5	-.6VDC	.4VDC	0V	6.4VAC	155VDC	105VDC	.4VDC							
V 5	6AK5	0V	1.9VDC	0V	6.4VAC	180VDC	105VDC	1.9VDC							
V 6	6AL5	0V	-.1VDC	6.4VAC	0V	2.8VDC	0V	-1.3VDC							
V 7	6AU6	.5VDC	7.7VDC	0V	6.4VAC	208VDC	145VDC	7.7VDC							
V 8	6SL7GT	0V	225VDC	3.8VDC	-.6VDC 1VDC -.8VDC 50VDC	0V	6.4VAC	0V							
V 9	6SN7GT	0V	160VDC	4.2VDC	-40VDC 182VDC -55VDC 320VDC	4VDC	6.4VAC	0V							
V 10	6AU6	0V	1.4VDC	0V	6.4VAC	200VDC	125VDC	1.4VDC							
V 11	6AL5	0V	-.6VDC	0V	6.4VAC	-.3VDC	0V	-.3VDC							
V 12	6SQ7GT	0V	-.5VDC	0V	0V	100VDC	6.4VAC	0V							
V 13	6V6GT	0V	0V	310VDC	.235VDC	0V	0V	6.4VAC	10.5VDC						
V 14	6SL7GT	-1VDC	200VDC	0V	-.5VDC	200VDC	0V	6.4VAC	0V						
V 15	1B3GT	† DO NOT MEASURE													
V 16	5U4G	0V	320VDC	0V	300VAC	0V	300VAC	0V	320VDC						
PINS		1	2	3	4	5	6	7	8	9	10	11	12	13	14
V17	7JP4	6.4VAC	110VDC	3.6VDC	0V	†	0V	†	†	†	†	†	0V	0V	0V

§ Taken with vacuum tube voltmeter.

† Do not measure. Cannot make accurate measurement due to high impedance of circuit.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9					
V 1	6AK5	1.3 Meg.	68Ω	0Ω	.2Ω	*9KΩ	*30KΩ	68Ω							
V 2	12AT7	*220KΩ	4.7 Meg.	0Ω	.2Ω	.2Ω	*3.5KΩ	10KΩ	.1Ω	0Ω					
V 3	6AU6	1.3 Meg.	0Ω	.2Ω	0Ω	*1200Ω	*47KΩ	82Ω							
V 4	6AK5	1.3 Meg.	39Ω	0Ω	.2Ω	*11KΩ	*47KΩ	39Ω							
V 5	6AK5	.2Ω	220Ω	0Ω	.2Ω	*7.5KΩ	*40KΩ	220Ω							
V 6	6AL5	.2Ω	100KΩ	.2Ω	0Ω	3.9KΩ	0Ω	3.3KΩ							
V 7	6AU6	1 Meg.	1200Ω	0Ω	.2Ω	*8KΩ	*50KΩ	1200Ω							
V 8	6SL7GT	1 Meg.	*220KΩ	100KΩ	1.5 Meg 440KΩ	*3.5Meg. *3 Meg.	0Ω	.2Ω	0Ω						
V 9	6SN7GT	1 Meg.	*12KΩ	560Ω	70KΩ 22KΩ	*19KΩ *400Ω	260Ω	.2Ω	0Ω						
V 10	6AU6	2Ω	220Ω	0Ω	.2Ω	*7.5KΩ	*53KΩ	220Ω							
V 11	6AL5	0Ω	22KΩ	0Ω	.2Ω	Inf.	0Ω	Inf.							
V 12	6SQ7GT	0Ω	4.7 Meg.	0Ω	0Ω	0Ω	*270KΩ	.2Ω	0Ω						
V 13	6V6GT	0Ω	0Ω	*520Ω	*1000Ω	330KΩ	Inf.	.2Ω	270Ω						
V 14	6SL7GT	10 Meg.	7 Meg.	0Ω	10 Meg.	1 Meg.	0Ω	.2Ω	0Ω						
V 15	1B3GT	Inf.	14 Meg.	Inf.	Inf.	Inf.	Inf.	14 Meg.	Inf.	TOP CAP *220KΩ					
V 16	5U4G	Inf.	50KΩ	Inf.	60Ω	Inf.	60Ω	Inf.	50KΩ						
PINS		1	2	3	4	5	6	7	8	9	10	11	12	13	14
V17	7JP4	.2Ω	*150KΩ	100KΩ	Inf.	5.7Meg.	Inf.	19Meg.	18Meg.	14Meg.	20Meg.	20Meg.	Inf.	Inf.	0Ω

* Measured from pin 2 of V16.

- DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
- Pin numbers are counted in a clockwise direction on bottom of socket.
- Measured values are from socket pin to common negative unless otherwise stated.
- Line voltage maintained at 117 volts for voltage readings.
- Front panels controls set at minimum.
- Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

This receiver uses a "brute force" type high voltage power supply and extreme caution should be exercised when working beneath the chassis.

VIDEO IF ALIGNMENT

The signal may be injected into the video IF channel by means of several turns of hookup wire wrapped around the 12AT7 mixer tube (V2).

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1.	High side to several turns of wire wrapped around mixer tube 12AT7 (V2). Low side to chassis.	31.2MC	Any	DC Probe to Point \diamond Common to chassis.	A1	Adjust for maximum deflection.
2.	"	34.8MC	"	"	A2	" " " "
3.	"	33.0MC	"	"	A3	" " " "
4.	"	31.5MC	"	"	A4	" " " "

OVERALL VIDEO IF RESPONSE CHECK

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

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	REMARKS
5.	High side to several turns of wire wrapped around mixer tube (V2). Low side to chassis	33MC (10MC Sweep)	30.0MC 31.5MC 33.0MC 34.5MC 36.0MC	Any	Vert. Amp. to Point \diamond Low side to chassis.	If necessary, slightly retouch A1, A2, A3 and A4 so markers are correctly placed on pattern as per Fig 1.

SOUND IF ALIGNMENT

Connect two matched 100K Ω (\pm 5%) resistors in series from pin 2 of the 6AL5 ratio detector tube (V11) to chassis. The junction of these two resistors is alignment point C as shown on the schematic.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
6.	.05MFD High side to pin 1 (Grid) of 6AU6 (V7). Low side to chassis	4.5MC (Very Accurately)	Any	DC Probe to Point \diamond Common to chassis.	A5, A6	Adjust for maximum deflection.
7.	.05MFD	"	"	DC Probe to Point \diamond Common to Point \diamond	A7	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. After receiver has been fully aligned tune in a TV station sound carrier and adjust A7 for minimum hum, if necessary.

ANTENNA & RF AMP. ALIGNMENT

In those localities where channels 7 or 11 are not used, adjust A8, A9, and A10 for maximum on the nearest useable channel.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
8.	Direct	Across antenna terminals. High side to "A". Low side to "G".	11	DC Probe to Point \diamond Common to chassis.	A8	Adjust for maximum deflection.
9.	Direct	"	7	"	A9	" " " "
10.	Direct	"	7	"	A10	" " " "
11A	Direct	"	6	"	A11	" " " "
B	Direct	"	5	"	A11	" " " "
12A	Direct	"	6	"	A12	" " " "
B	Direct	"	5	"	A12	" " " "
13A	Direct	"	4	"	A13	" " " "
B	Direct	"	3	"	A13	" " " "
14A	Direct	"	4	"	A14	" " " "
B	Direct	"	3	"	A14	" " " "
15A	Direct	"	3	"	A15	" " " "
B	Direct	"	2	"	A15	" " " "
16A	Direct	"	3	"	A16	" " " "
B	Direct	"	2	"	A16	" " " "

OSCILLATOR ALIGNMENT

When adjusting the oscillator settings, it must be borne in mind to set the oscillator circuits to the same channels as the antenna and RF amplifier circuits were aligned. The oscillator operates 33MC above the sound carrier on the low band channels and 33MC below the sound carrier on the high band channels.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
17A	Direct	Across antenna terminals. High side to "A". Low side to "G".	13	"	A17	Adjust for rough audio beat in speaker. Volume control and signal generator set at maximum.
B	Direct	"	12	"	A17	"
18A	Direct	"	11	"	A18	"
B	Direct	"	10	"	A18	"
19A	Direct	"	9	"	A19	"
B	Direct	"	8	"	A19	"
20	Direct	"	7	"	A20	"
21A	Direct	"	6	"	A21	"
B	Direct	"	5	"	A21	"
22A	Direct	"	4	"	A22	"
B	Direct	"	3	"	A22	"
23A	Direct	"	3	"	A23	"
B	Direct	"	2	"	A23	"

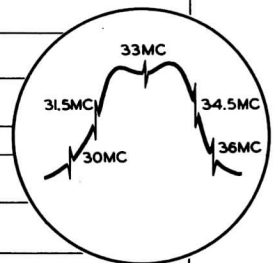
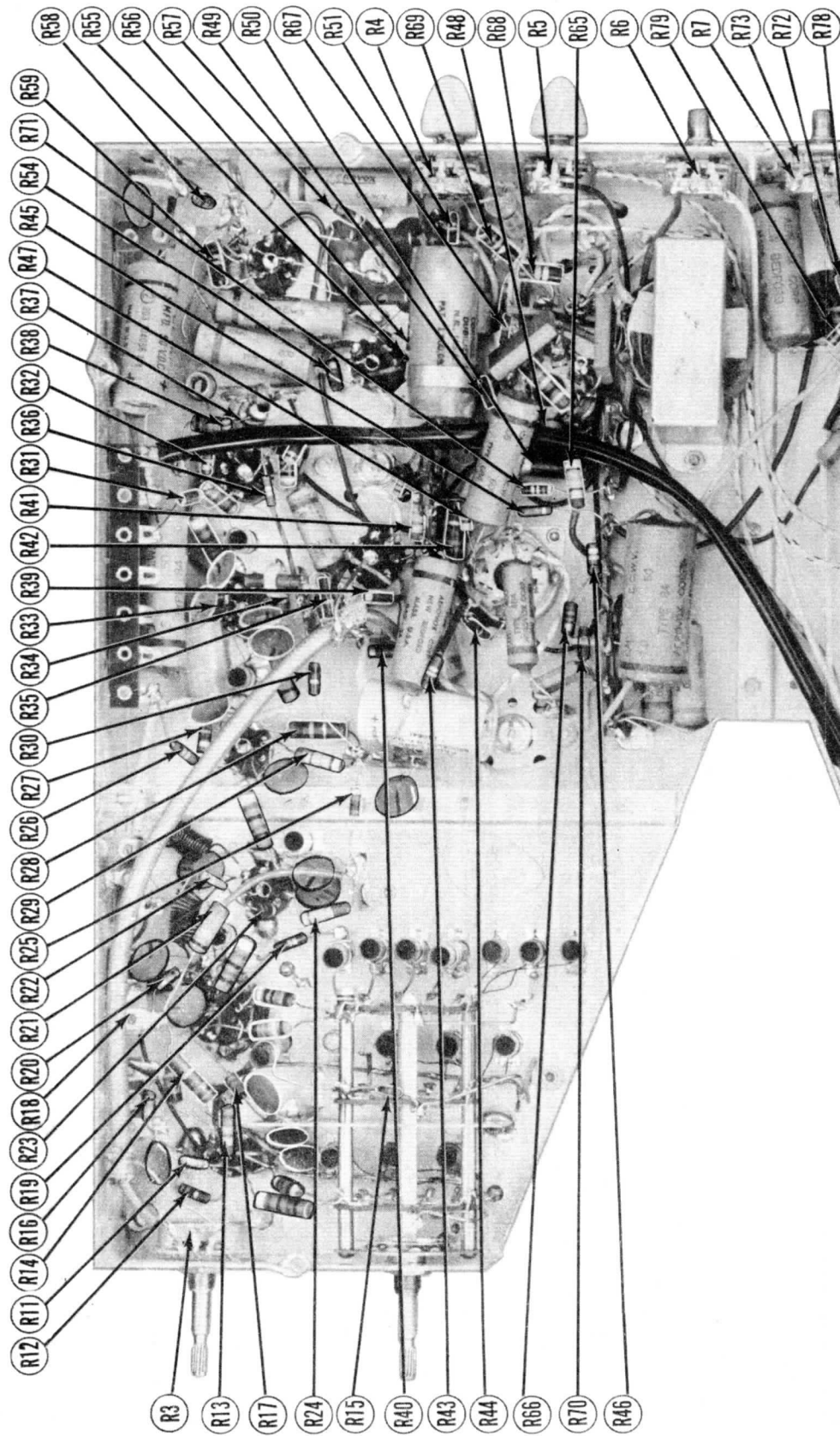
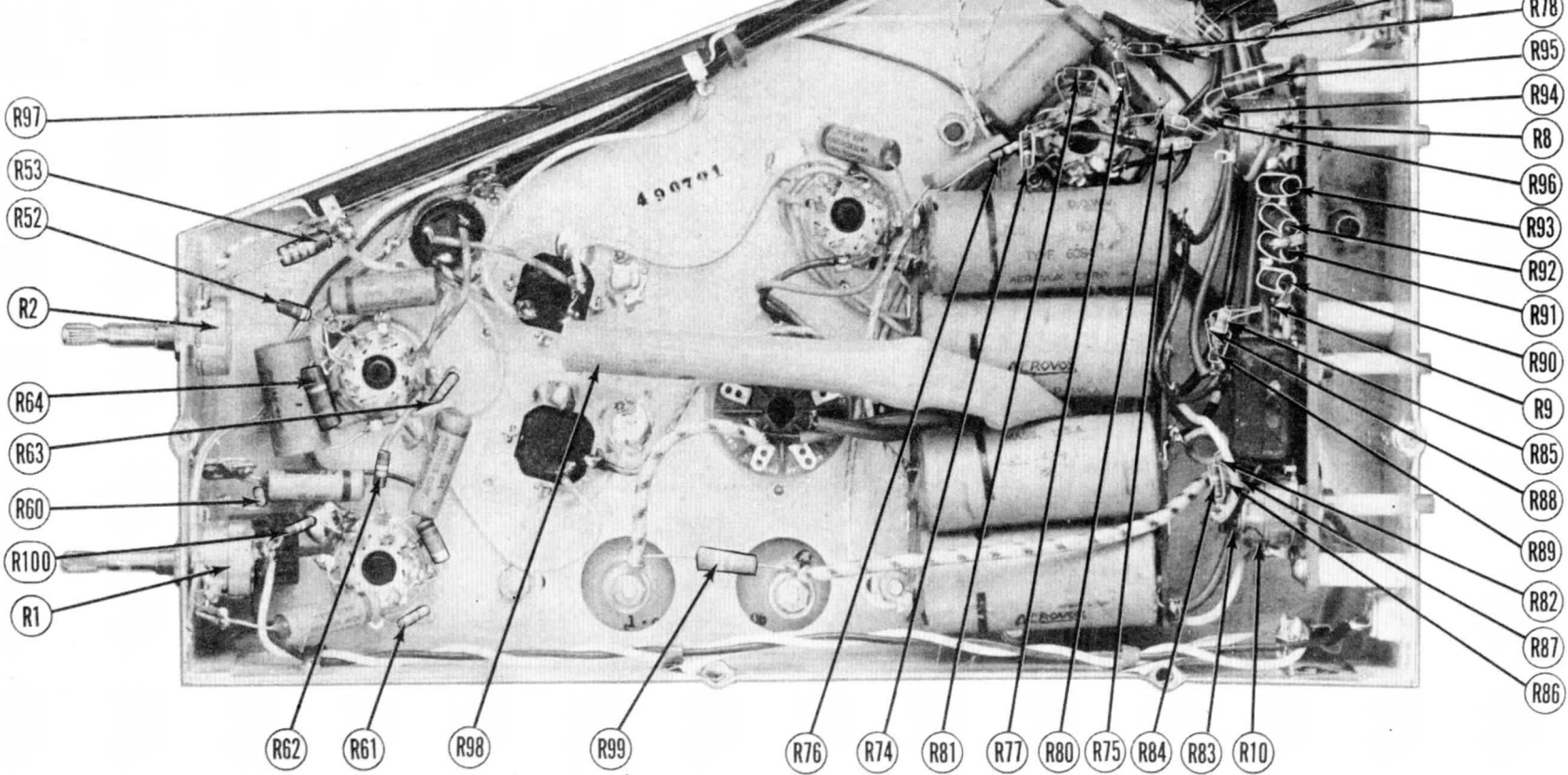


FIG 1





CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

TEMPLE
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TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		TEMPLE PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6AK5	6AK5	7BD	
V2	Converter	12AT7	12AT7		
V3	1st IF Amp.	6AU6	6AU6	7BK	
V4	2nd IF Amp.	6AK5	6AK5	7BD	
V5	3rd IF Amp.	6AK5	6AK5	7BD	
V6	Video DET-AGC	6AL5	6AL5	6BT	
V7	Video Amp.	6AU6	6AU6	7BK	
V8	DC Rest.-Sync. Sep.-Vert. Osc.	6SL7GT	6SL7GT	8BD	
V9	Sync. Amp.- Horiz. Osc.	6SN7GT	6SN7GT	8BD	
V10	Sound IF	6AU6	6AU6	7BK	
V11	Ratio Det.	6AL5	6AL5	6BT	
V12	Audio Amp.	6SQ7GT	6SQ7GT	8Q	
V13	Audio Output	6V6GT	6V6GT	7AC	
V14	Vert. Output	6SL7GT	6SL7GT	8BD	
V15	HV Rect.	1B3GT	1B3GT	3C	
V16	LV Rect.	5U4G	5U4G	5T	
V17	Picture Tube	7JP4	7JP4		

PARTS LIST AND CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA		
	CAP.	VOLT	TEMPLE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.
C68	.39			1468-00004	5W524
C69	.003	600		P688-003	GT6D3
C70	470	1000			
C71	470	1000			
C72	.005	6000		7584-005	DSTH-60D5
C73	.005	6000		7584-005	DSTH-60D5
C74A	.1	6000	B-C03		MDD60S5
					-3 ↑
					MDD60S5
C75	.01	600		P688-01	GT6S1
C76	.05	600		P688-05	GT6S5
C77	5000			1467-005	1D5D5

* Omit bypass section.
† Rated .05/6000-use 2 in parallel.

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	TEMPLE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SOLAR PART No.	
C1A	16	450	B-CEL-2A86	AF444J	UP2224			D12791
B	16	450	Alternate		5C*			
C	16	450	CEL-3A85					
C2	80	450	B-CEL-1A88	AF16J	UP8045			TVL-9
C3	25	25	A-CE86	PRS25/25	BR252A			TVA-6
C4	5	50	A-CE88	PRS150/4	BR550			TVA-13
C5	500	3	A-CE92	PRS6/500	BRH605			UHC-506
C6	100					GP1K-100		
C7	20					NPOK-20		
C8	5000					GP2M-005		
C9	5000					GP2M-005		
C10	5000					GP2M-005		
C11	5000					GP2M-005		
C12	6.8							
C13	10					N750-10		
C14	2.2							
C15	20					NPOK-20		
C16	2.2							
C17	5000					GP2M-005		
C18	5000					GP2M-005		
C19	5000					GP2M-005		
C20	5000					GP2M-005		
C21	100			1468-0001	5W5T1	GP1K-100	MO.5-31	LFM-31
C22	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C23	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C24	100			1468-0001	5W5T1	GP1K-100	MO.5-31	LFM-31
C25	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C26	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C27	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C28	100			1468-0001	5W5T1	GP1K-100	MO.5-31	LFM-31
C29	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C30	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C31	5000			1467-005	1D5D5	GP2M-005	MW.5-25	LFM-25
C32	.5	50		P288-5	GT2P5		ST-2-5	68P20
C33	100			1468-0001	5W5T1	GP1K-100	MO.5-31	LFM-31
C34	470			1468-0005	5W5T5	GP2K-500	MO.5-35	LFM-35
C35	330			1468-00035	5W5T3	GP2K-300	MO.5-33	LFM-33
C36	5			1469-000005	5SRV5	NPOK-5	MO5.5-55	MS-55
C37	.05	200		P288-05	GT2S5		ST-4-05	TM-15
C38	.1	400		P488-1	GT4P1		ST-4-1	TM-1
C39	.05	600		P688-05	GT6S5		ST-6-05	TM-15
C40	.25	600		684-25	GT6P25		ST-6-25	TC-2
C41	1.0	50		484-1.0	GT2W1		ST-2-1M	TC-10
C42	.05	600		P688-05	GT6S5		ST-6-05	TM-15
C43	.05	400		P488-C5	GT4S5		ST-4-05	TM-15
C44	.1	200		P288-1	GT2P1		ST-2-1	TM-1
C45	.02	600		P688-02	GT6S2		ST-6-02	TM-12
C46	.02	600		P688-02	GT6S2		ST-6-02	TM-12
C47	330			1468-0003	5W5T3	GP2K-300	MO.5-33	LFM-33
C48	1500			1467-0015	1W5D15	GP2L-0015	MW.5-215	LFM-215
C49	330			1468-0003	5W5T3	GP2K-300	MO.5-33	LFM-33
C50	.01	400		P488-01	GT4S1	GP2-335-01	ST-4-01	TM-11
C51	.003	600		P688-003	GT6D3	GP2M-003	ST-6-003	TM-23
C52	.01	400		P488-01	GT4S1	GP2-335-01	ST-4-01	TM-11
C53	220			1468-00025	5W5T25	GP2K-250	MO.5-325	LFM-325
C54	.005	600		P688-005	GT6D5	GP2M-005	ST-6-005	TM-25
C55	.005	1000		P1088-005	GT16D5		STM-16-005	MB-25
C56	.01	600		P688-01	GT6S1	GP2-335-01	ST-6-01	TM-11
C57	.01	600		P688-01	GT6S1	GP2-335-01	ST-6-01	TM-11
C58	.01	600		P688-01	GT6S1	GP2-335-01	ST-6-01	TM-11
C59	.01	400		P488-01	GT4S1	GP2-335-01	ST-4-01	TM-11
C60	.001	500		1464-001	2R5D1	GP2M-005	MWS.5-21	MS-21
C61	.1	600		P688-1	GT6P1		ST-6-1	TM-1
C62	.05	600		P688-05	GT6S5		ST-6-05	TM-15
C63	100	1000						
C64	.004	600		P688-004	GT6D4		ST-6-004	TM-24
C65	.220	1000						
C66	.005	6000		7584-005	DSTH-60D5		STM-60-005	TVM-256
C67	.005	6000		7584-005	DSTH-60D5		STM-60-005	TVM-256

CONT

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	TEMPLE PART No.	IRC PART No.	CLAROS PART No.
R1A	1 Meg.	½	RF20-105	Q13-137X	AT-98
B	Shaft		Not Req.	Not Req.	KSS-3
C	Switch		Not Req.	76-1	SW-A
R2A	B	½	RF21-253	Q11-120	AM-40-S
R3A	B	½	RF21-102	Q11-108	KSS-3
R4A	B	½	Not Req.	Not Req.	AM-8-S
R5A	B	½	RF24-503	Q11-123	KSS-3
R6A	B	½	Not Req.	Not Req.	AM-44-S
R7A	B	½	Not Req.	Not Req.	KSS-3
R8	B	½	RF23-205	Q11-137	AM-61-S
R9A	B	½	Not Req.	Not Req.	KSS-3
R10A	B	½	RF23-203	Q11-120	AM-36-S
			Not Req.	Not Req.	KSS-3
			RF22-205	Q11-139	M-83-S
			Not Req.	SQ	Not Req.
			RF22-505	Q11-141	
			Not Req.	C3#	
			RF22-505	Q11-141	
			Not Req.	C3#	

† Use an extra nut as a spacer to hold control shaft of new control so that original shaft, (insulated shaft) has plenty of clearance between itself and control shaft.

RESIS

ITEM No.	RATING		REPLACEMENT DATA	
	RESISTANCE	WATTS	TEMPLE PART No.	IRC PART No.
R11	15KΩ	½		BTS-15K
R12	68Ω	½		
R13	22KΩ	½		
R14	6800Ω	½		
R15	1000Ω	½		BTS-1000
R16	1000Ω	½		BTS-1000
R17	4.7 Meg.	½		BTS-4.7 Meg.
R18	220KΩ	½		BTS-220K
R19	10KΩ	½		
R20	1000Ω	½		BTS-1000
R21	1000Ω	½		BTA-1000
R22	33KΩ	½		BTS-33K
R23	32Ω	½		
R24	47KΩ	½		BTA-47K
R25	100Ω	½		
R26	10KΩ	½		
R27	39Ω	½		
R28	10KΩ	½		
R29	47KΩ	½		BTA-47K
R30	100Ω	½		
R31	1.2 Meg.	½		BTS-1.2 Meg.
R32	100KΩ	½		BTS-100K
R33	220Ω	½		
R34	39KΩ	½		BTS-39K
R35	6800Ω	½		BTA-6800
R36	220KΩ	½		BTS-220K
R37	3900Ω	½		BTS-3900-5%
R38	3300Ω	½		BTS-3300
R39	1 Meg.	½		BTS-1 Meg.
R40	220Ω	½		
R41	47KΩ	½		BTA-47K
R42	6800Ω	½		BTA-6800
R43	120KΩ	½		BTS-120K
R44	1 Meg.	½		BTS-1 Meg.
R45	2200Ω	½		BTS-2200
R46	100KΩ	½		BTS-100K
R47	220KΩ	½		BTS-220K
R48	1 Meg.	½		BTS-1 Meg.
R49	560Ω	½		BTS-560
R50	10KΩ	½		BT-2-10K
R51	150KΩ	½		BTS-150K
R52	3900Ω	½		BTS-3900-5%
R53	33KΩ	½		BTA-33K

PARTS LIST AND DESCRIPTIONS

CAPACITORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES	
	CAP.	VOLT	TEMPLE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SOLAR PART No.	SPRAGUE PART No.	
C68	39	.003		1468-00004	5W5Q4		MO.5-44	IFM-44	Hor. Sync. Coupling
C69	470	1000		P688-003	GT6D3	GP2M-003	ST-6-003	TM-23	Hor. Osc. Grid Cap.
C70	470	1000							Fixed Trimmer
C71	470	1000							Fixed Trimmer
C72	.005	6000		7584-005	DSTH-60D5		STM-60-005	TVM-256	Hor. Coupling
C73	.005	6000		7584-005	DSTH-60D5		STM-60-005	TVM-256	Hor. Coupling
C74A	.1	6000	B-C03		MDD60S5-3			TVQ-156	HV Filter
B	.05	6000			MDD60S5-3			TVQ-156	HV Filter
C75	.01	600		P688-01	GT6S1		ST-6-01	TM-11	Line Filter
C76	.05	600		P688-05	GT6S5		ST-6-05	TM-15	Hor. Cent. Cont. Byp.
C77	5000			1467-005	1D5D5	GP2M-005	M.5-25	IFM-25	Filament Bypass

* Omit bypass section.
† Rated .05/6000-use 2 in parallel.

ITEM No.	RATING		TEMPLE PART No.
	RESISTANCE	WATTS	
R54	220Ω		
R55	47KΩ		
R56	6800Ω		
R57	200Ω		
R58	33KΩ		
R59	22KΩ		
R60	68KΩ		
R61	4.7 Meg.		
R62	270KΩ		
R63	330KΩ		
R64	270Ω		
R65	47KΩ		
R66	68KΩ		
R67	24KΩ		
R68	15KΩ		
R69	22KΩ		
R70	10KΩ		
R71	470KΩ		
R72	3.3 Meg.		
R73	330KΩ		
R74	10 Meg.		
R75	3.9 Meg.		
R76	100KΩ		
R77	10 Meg.		
R78	10 Meg.		
R79	8.8 Meg.		
R80	3.9 Meg.		
R81	10 Meg.		
R82	5.6 Meg.		
R83	4.7 Meg.		
R84	5.6 Meg.		
R85	4.7 Meg.		
R86	2.7 Meg.		
R87	2.7 Meg.		
R88	1 Meg.		
R89	3.3 Meg.		
R90	1.5 Meg.		
R91	1.5 Meg.		
R92	1.2 Meg.		
R93	1.2 Meg.		
R94	1 Meg.		
R95	2.7 Meg.	1	
R96	2.7 Meg.	1	
R97	1000Ω	10	RW10-1
R98	220KΩ	2	
R99	390KΩ	2	
R100	220KΩ	1	

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESISTANCE	WATTS	TEMPLE PART No.	IRC PART No.	CLAROSTAT PART No.	
R1A	1 Meg.	½	RP20-105	Q13-137X	AT-98	Volume control tapped @ 300KΩ
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R1A per instructions
C	Switch		Not Req.	76-1	SW-A	" " " "
R2A	25KΩ	½	RP21-253	Q11-120	AM-40-S	Brightness control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R2A per instructions
R3A	1000Ω	½	RP21-102	Q11-108	AM-8-S	Contrast control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R3A per instructions
R4A	50KΩ	½	RP24-503	Q11-123	AM-44-S	Horiz. hold control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R4A per instructions
R5A	1 Meg.	½	RP24-105	Q11-137	AM-61-S	Vert. hold control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R5A per instructions
R6A	20KΩ	½	RP23-203	Q11-120	AM-36-S	Horiz. size control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R6A per instructions
R7A	2 Meg.	½	RP23-205	Q11-139	M-83-S	Vert. size control
B	Shaft		Not Req.	S2	Not Req.	Attach to R7A per instructions
R8	2 Meg.	½	RP22-205			Focus control
R9A	5 Meg.	½	RP22-505	Q11-141		Horiz. centering control
B	Shaft		Not Req.	C3#		Attach to R9A per instructions
R10A	5 Meg.	½	RP22-505	Q11-141		Vert. centering control
B	Shaft		Not Req.	C3#		Attach to R10A per instructions

† Use an extra nut as a spacer to hold control back from control sub-panel as far as possible. Then saw off shaft of new control so that C3 coupler can be employed to connect part of original shaft, (Insulated shaft) to the new control. (Caution be sure that the C3 coupler has plenty of clearance between itself and chassis).

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	TEMPLE PART No.	IRC PART No.	
ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.					
R11	15KΩ	½		BTS-15K	RF Grid
R12	68Ω	½			RF Cathode
R13	22KΩ	½			RF Screen
R14	6800Ω	½			RF Decoupling
R15	1000Ω	½		BTS-1000	RF Plate Decoupling
R16	1000Ω	½		BTS-1000	AGC Network
R17	4.7 Meg.	½		BTS-4.7 Meg.	Converter Grid
R18	220KΩ	½		BTS-220K	Converter Plate Decoupling
R19	10KΩ	½			Osc. Grid
R20	1000Ω	½		BTS-1000	Osc. Plate Decoupling
R21	1000Ω	½		BTA-1000	Decoupling
R22	33KΩ	½		BTS-33K	1st IF Grid
R23	82Ω	½			1st IF Cathode
R24	47KΩ	½		BTA-47K	1st IF Screen
R25	100Ω	½			1st IF Decoupling
R26	10KΩ	½			2nd IF Grid
R27	39Ω	½			2nd IF Cathode
R28	10KΩ	½			2nd IF Plate
R29	47KΩ	½		BTA-47K	2nd IF Screen
R30	100Ω	½			2nd IF Decoupling
R31	1.2 Meg.	½		BTS-1.2 Meg.	AGC Network
R32	100KΩ	½		BTS-100K	"
R33	220Ω	½			3rd IF Cathode
R34	39KΩ	½		BTS-39K	3rd IF Screen
R35	6800Ω	½		BTA-6800	3rd IF Decoupling
R36	220KΩ	½		BTS-220K	Voltage Divider
R37	3900Ω	½		BTS-3900-5%	"
R38	3300Ω	½		BTS-3300	Video Det. Load
R39	1 Meg.	½		BTS-1 Meg.	Video Amp. Grid
R40	220Ω	½			Video Amp. Cathode
R41	47KΩ	½		BTA-47K	Video Amp. Screen
R42	6800Ω	½		BTA-6800	Video Amp. Plate
R43	120KΩ	½		BTS-120K	Phase Correction
R44	1 Meg.	½		BTS-1 Meg.	Sync. Sep. Grid
R45	2200Ω	½		BTS-2200	Sync. Sep. Cathode
R46	100KΩ	½		BTS-100K	Sync. Sep. Cathode
R47	220KΩ	½		BTS-220K	Sync. Sep. Plate
R48	1 Meg.	½		BTS-1 Meg.	Sync. Amp. Grid
R49	560Ω	½		BTS-560	Sync. Amp. Cathode
R50	10KΩ	½		BT-2-10K	Sync. Amp. Plate
R51	150KΩ	½		BTS-150K	Picture Tube Cathode
R52	3900Ω	½		BTS-3900-5%	Voltage Divider
R53	33KΩ	½		BTA-33K	"

ITEM No.	RATING			
	PRI.	SEC. 1	SEC. 2	SEC. 3
T1	117VAC @ 1.0A	4000VAC	630VCT @ .129 ADC	1.1A @
		SEC. 4	SEC. 5	
		@ 3A	@ 4.8A	

TRANSFORMERS

ITEM No.	RATING		TEMPLE PART No.
	DC RESISTANCE	SEC.	
T2	120Ω	240Ω	A-L0107
T3	126Ω	250Ω	A-L0108
T4	210Ω	260Ω	B-TV2

TRANSISTORS

ITEM No.	RATING			
	IMPEDANCE	DC RES.	PRI.	SEC.
T5	7500Ω	3.3Ω	450Ω	.5Ω

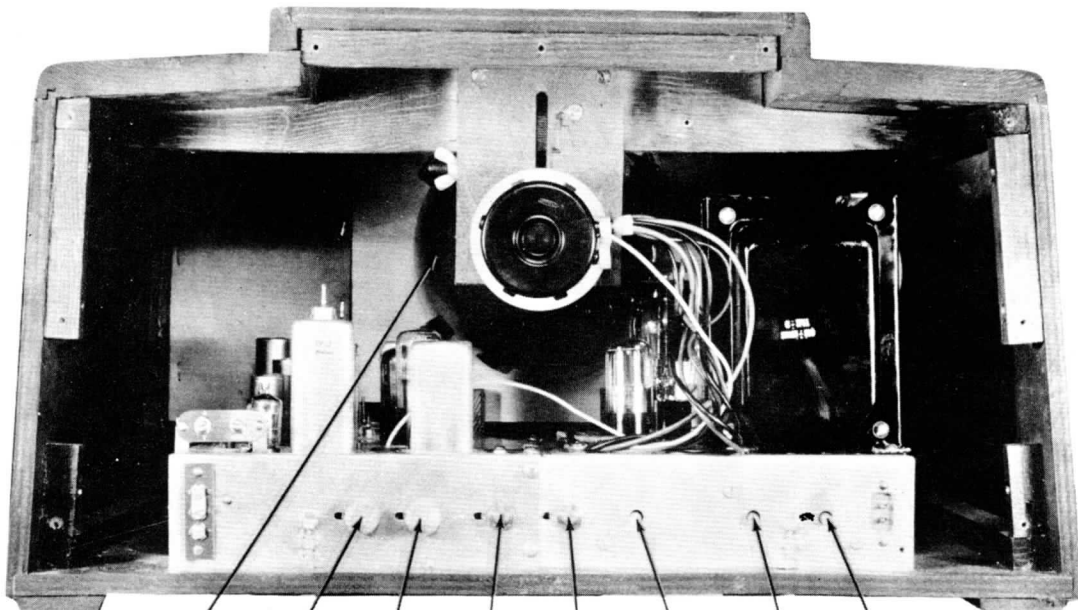
ITEM No.	RATING		TEMPLE PART No.
	FIELD RES.	V. C. IMP.	
SP1	68Ω	3.3Ω	B-EH2
CONE DIA.		V. C. DIA.	
SP2	4 1/2"	9/16"	

PARTS LIST AND DESCRIPTIONS (Continued) COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	TEMPLE	MEISSNER	
				PART No.	PART No.	
L1	Ant. Coil	0Ω		A-LR100		Channels 2 and 3
L2	Ant. Coil	0Ω		A-LR101		Channels 3 and 4
L3	Ant. Coil	0Ω		A-LR102		Channels 5 and 6
L4	Ant. Coil	0Ω				
L5	Ant. Coil	0Ω				
L6	Ant. Coil	0Ω				
L7	RF Coil	0Ω		A-LR103		Channels 2 and 3
L8	RF Coil	0Ω		A-LR104		Channels 3 and 4
L9	RF Coil	0Ω		A-LR105		Channels 5 and 6
L10	RF Coil	0Ω				
L11	RF Coil	0Ω				
L12	RF Coil	0Ω				
L13	RF Coil	0Ω		A-LR106		Channel 7
L14	RF Choke	.2Ω		A-LF17		
L15	Osc. Coil	0Ω		A-L0200		Channels 2 and 3
L16	Osc. Coil	0Ω		A-L0201		Channels 3 and 4
L17	Osc. Coil	0Ω		A-L0202		Channels 5 and 6
L18	Osc. Coil	0Ω		A-L0203		Channel 7
L19	Osc. Coil	0Ω		A-L0204		Channels 8 and 9
L20	Osc. Coil	0Ω		A-L0205		Channels 10 and 11
L21	Osc. Coil	0Ω		A-L0206		Channels 12 and 13
L22	1st Video					
	IF	.2Ω		A-TM22		
L23	2nd Video					
	IF	.2Ω		A-TM22		
L24	3rd Video					
	IF	.2Ω		A-TM22		
L25	RF Choke	.2Ω		A-LF9		
L26	4th Video					
	IF	.2Ω		A-TM22		
L27	Peaking	8Ω		A-LF12		160 Microhenry coil, wound on 33KΩ res.
L28	Peaking	17Ω		A-LF14		560 Microhenry coil, wound on 8200Ω res.
L29	Peaking	12Ω		A-LF15		320 Microhenry coil, wound on 33KΩ res.
L30	Peaking	15Ω		A-LF13		Inductance-520 Microhenries
L31	1st Sound					
	IF	2Ω		B-TM21		
L32	Ratio Det.	8Ω	1Ω	B-TM20		
L33	Fl. Choke	.1Ω		A-LF16		
L34	Fl. Choke	.1Ω		A-LF16		
L35	Fl. Choke	.1Ω		A-LF16		

MISCELLANEOUS

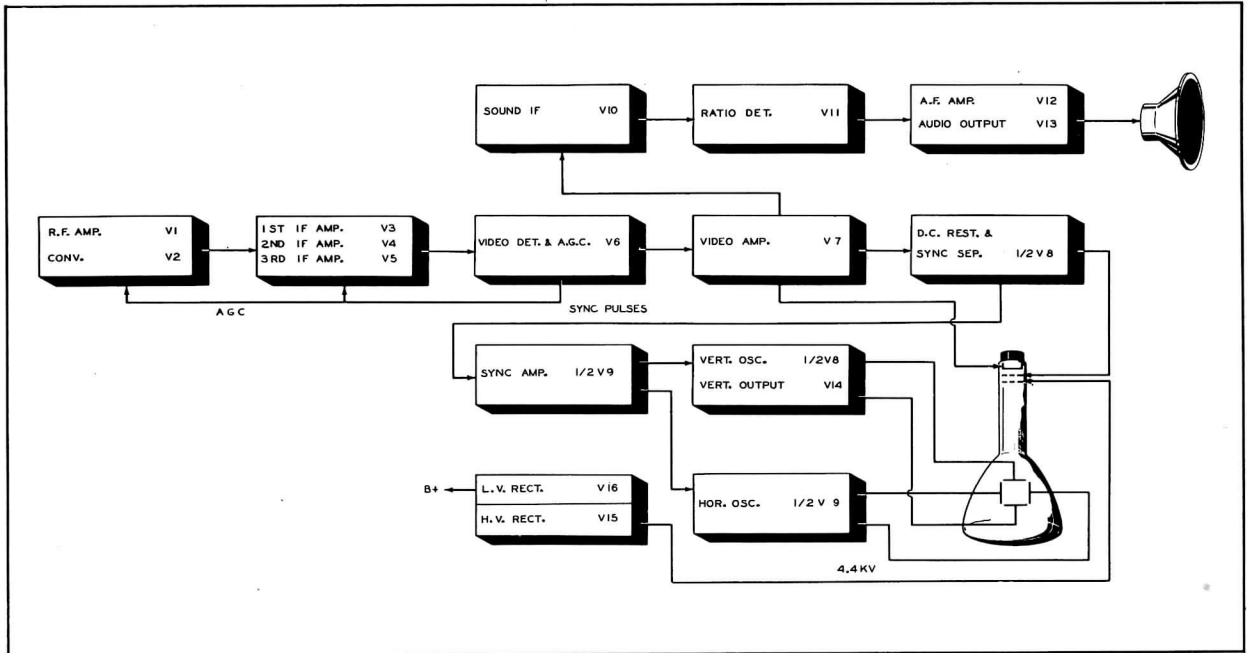
ITEM No.	PART NAME	TEMPLE PART No.	NOTES
M1	Switch	B-SR32	Channel selector
	Socket with Leads	B-JS40	Picture tube
	Connector	B-WLS-2	Line cord
	Speaker Socket	A-PM8-1	
	Speaker Plug	A-PM8-2	
	Knob	B-HK34-14	Station selector, contrast, brightness, on-off-volume.
	Knob	C-HK28	Vert. and Horiz. hold, back panel controls.



V17
 HORIZ. VERT. HORIZ. VERT. FOCUS HORIZ. VERT.
 HOLD HOLD SIZE SIZE CENT. CENT.

CABINET-REAR VIEW

TEMPLE
MODELS TV-1776, TV-1777,
TV-1778, TV-1779



BLOCK DIAGRAM

DISASSEMBLY INSTRUCTIONS MODEL TV-1776

1. Remove four push-on type control knobs.
2. Remove picture tube socket from picture tube.
3. Remove speaker plug from chassis.
4. Remove six 3/8" hex head self-tapping screws holding chassis.
5. Remove chassis out rear of cabinet.

REMOVAL OF PICTURE TUBE MODEL TV-1776

1. Remove chassis as shown in disassembly instructions.
2. Remove front panel and magnifying lens by pulling on top of panel.
3. Remove four wood screws holding picture tube mask. Remove mask. CAUTION: DO NOT LET PICTURE TUBE DROP WHEN REMOVING MASK.
4. Pull off rubber ring near base of picture tube and remove picture tube out front of cabinet.