

MOTOROLA
MODELS 7VT1, 7VT2, 7VT5, (Ch. TS-18)

MOTOROLA 7VT5

TRADE NAME Motorola, Models 7VT1, 7VT2, 7VT5, 9VT1, 9VT5 (Chassis TS-18)
 MANUFACTURER Motorola Inc., 4545 Augusta Blvd., Chicago 51, Ill.
 TYPE SET Television Receiver
 TUBES Sixteen

POWER SUPPLY 110 - 120 Volts AC - 60 Cycle
 TUNING RANGE-Channels 2 thru 13.

RATING .9 Amp at 117 Volts AC

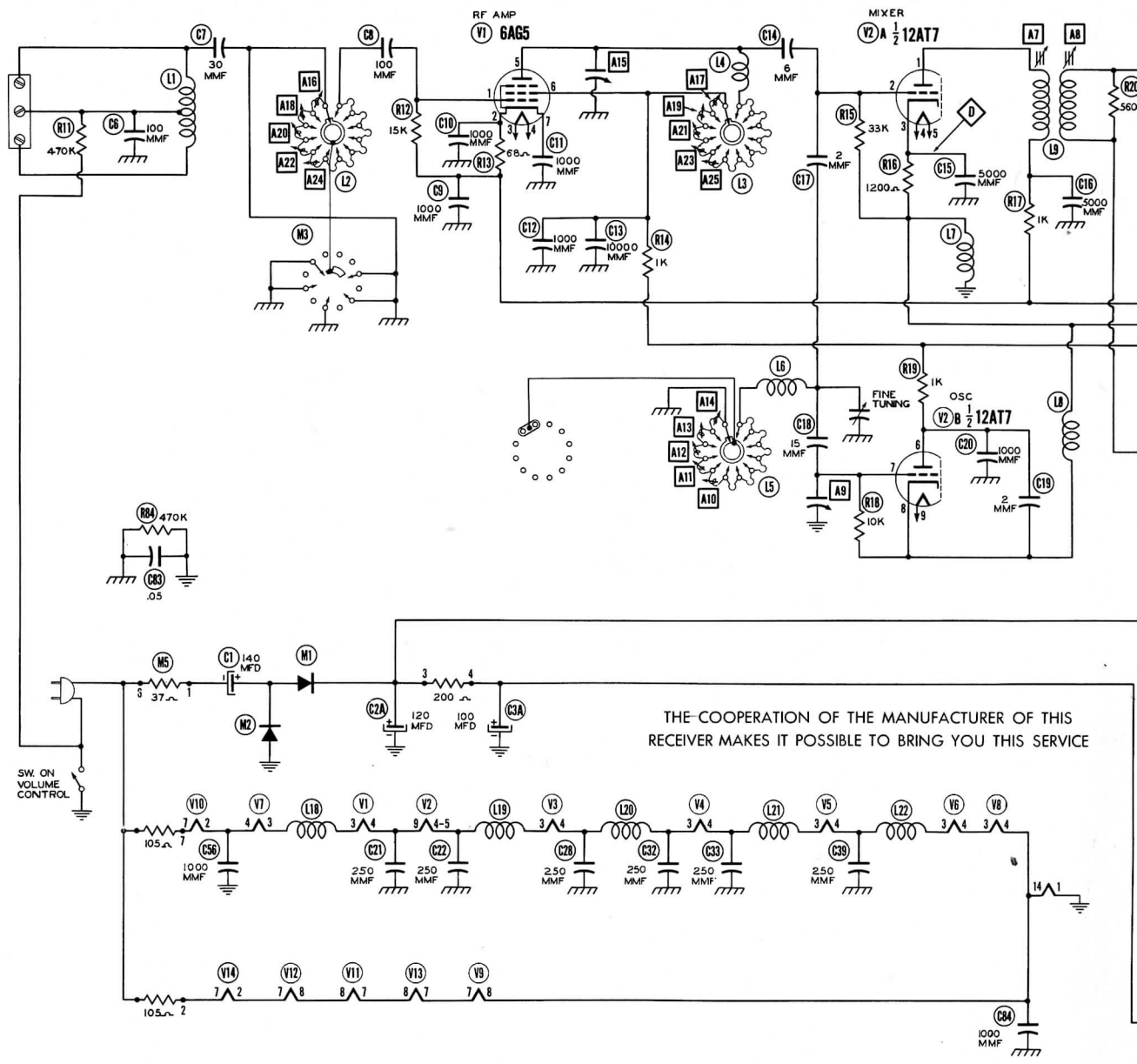
INDEX

Alignment Instructions 6, 7	Photos (Continued)
Block Diagram 13	Chassis - Top View 11, 18
Disassembly Instructions 10	Resistor Identification 12, 17
Parts List and Description 14, 15, 16	Trans., Inductor & Align. Ident. 4, 9
Photos	Schematic 2
Cabinet - Rear View 10	Tube Placement Chart 5
Capacitor Identification 11, 18	Voltage and Resistance Measurements 8

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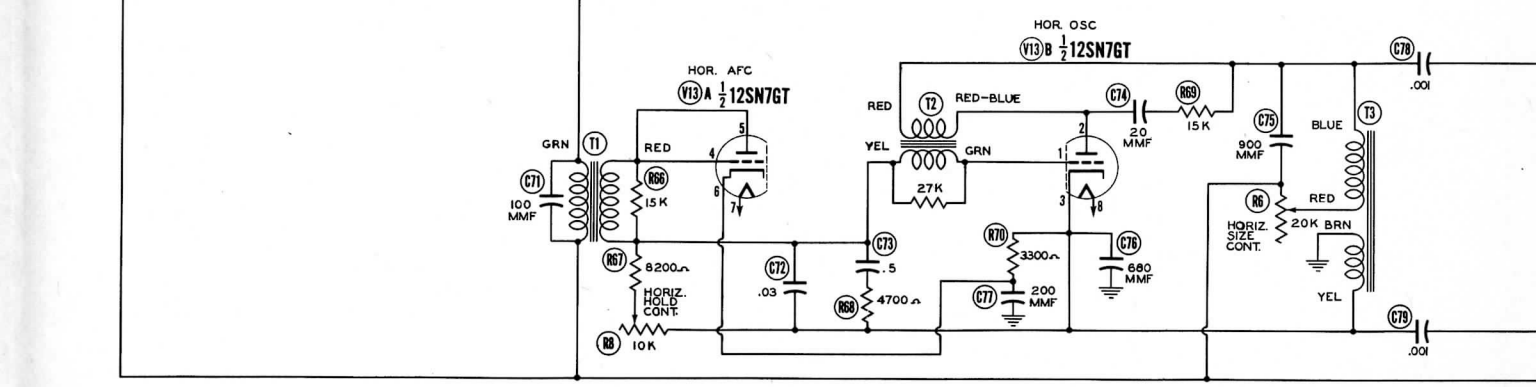
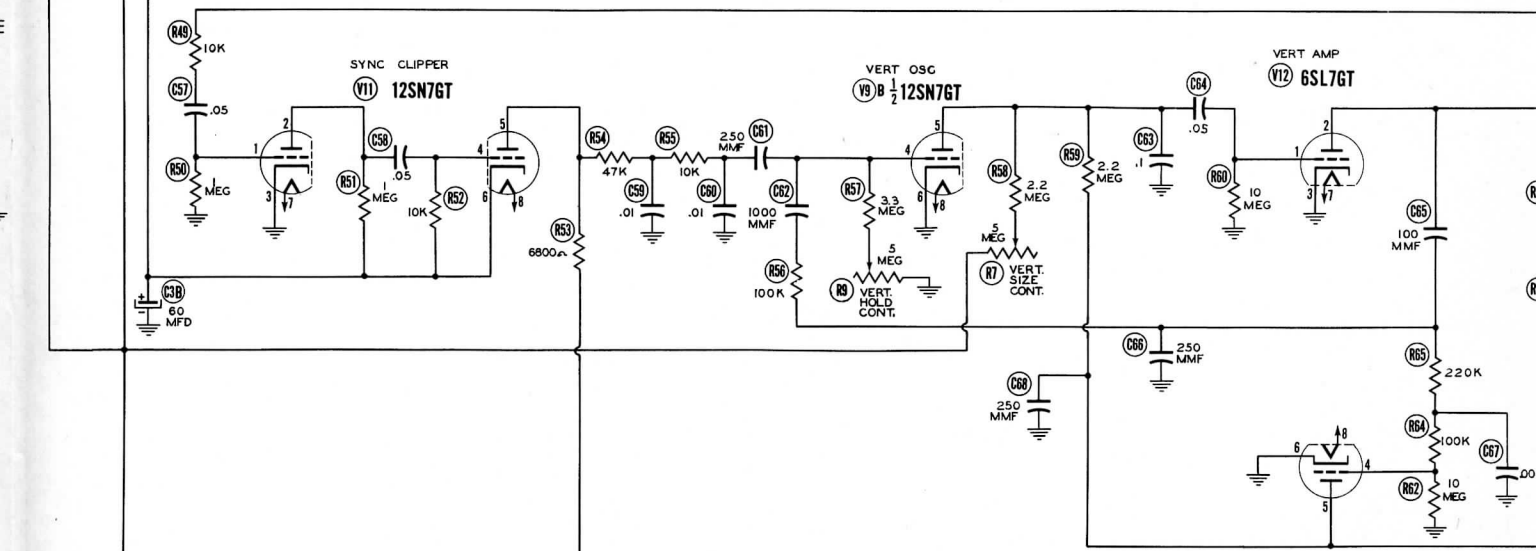
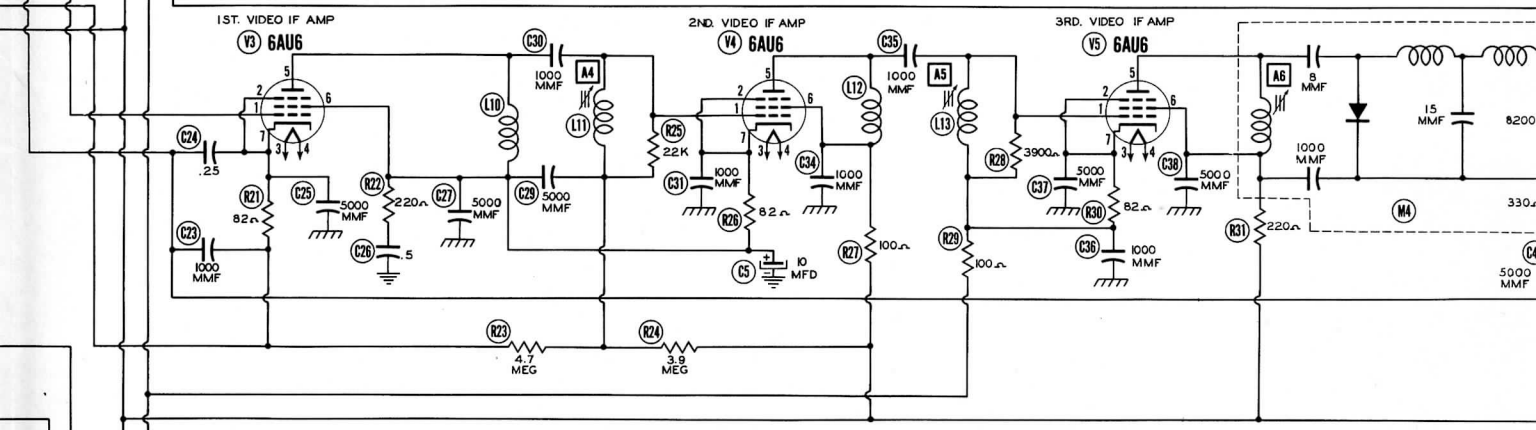
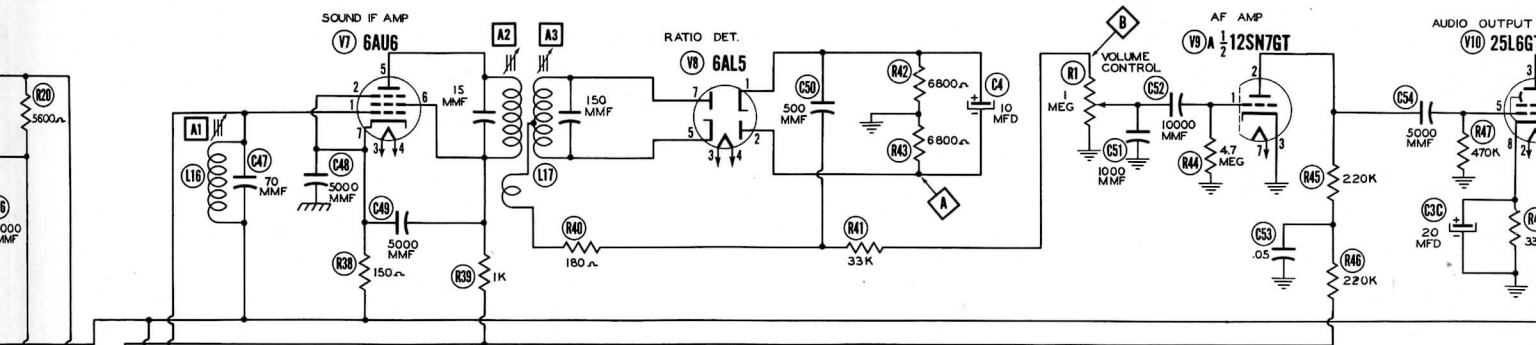
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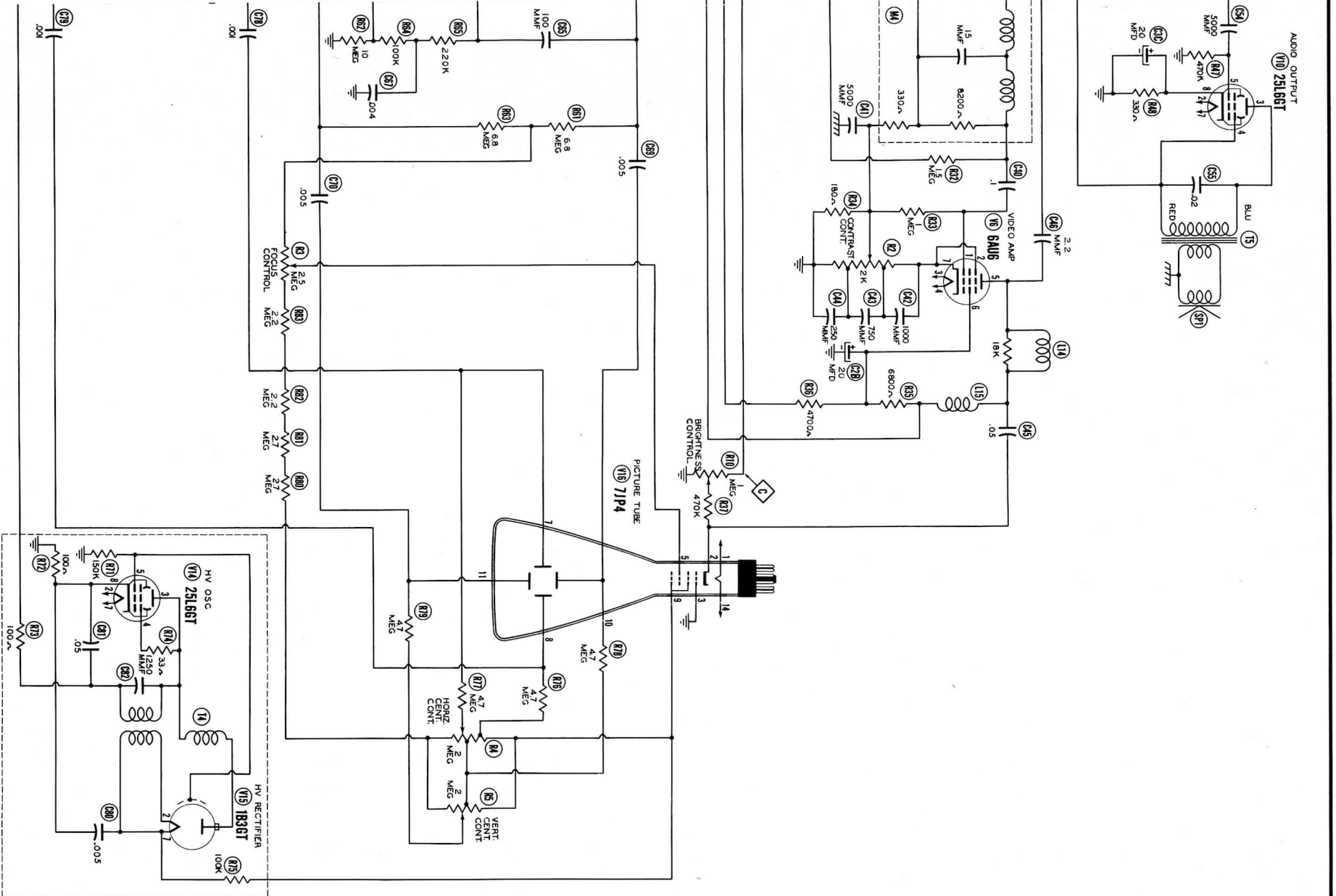


THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFAC STANDARD NOTATION SCHEMATIC
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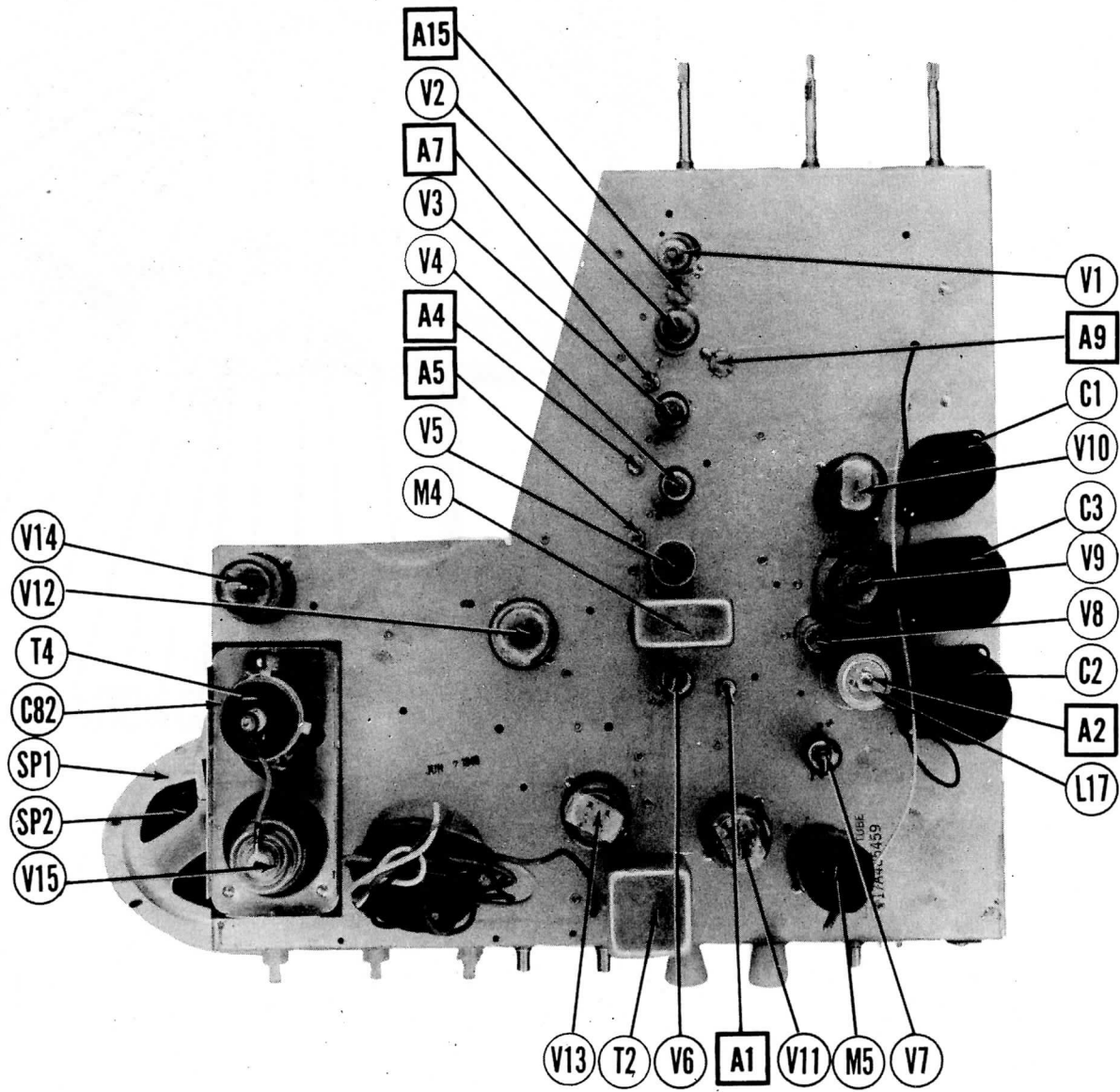


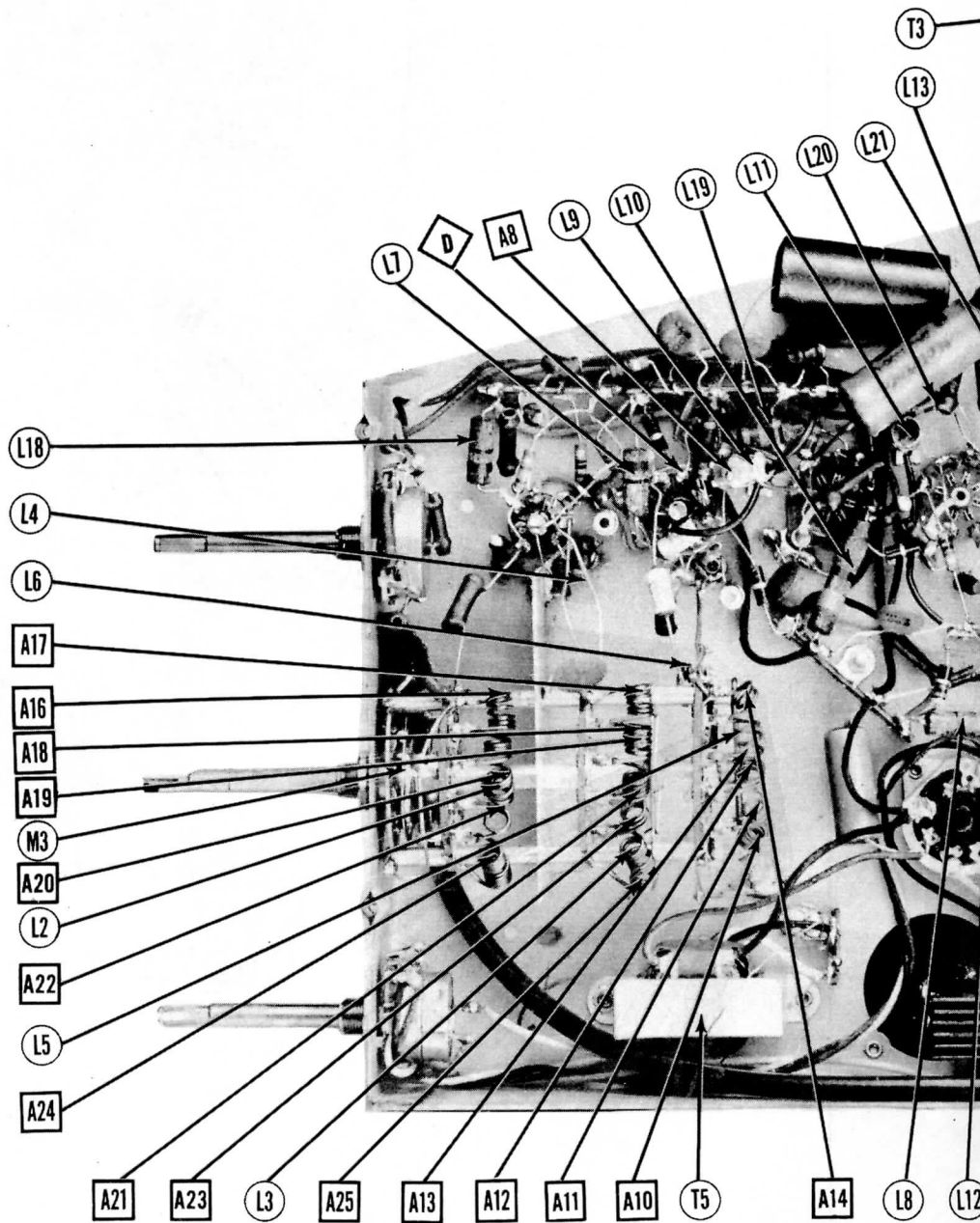
**MOTOROLA MODELS 7V11,
7V12, 7V15, 9V11, 9V15, (Ch. TS-18)**



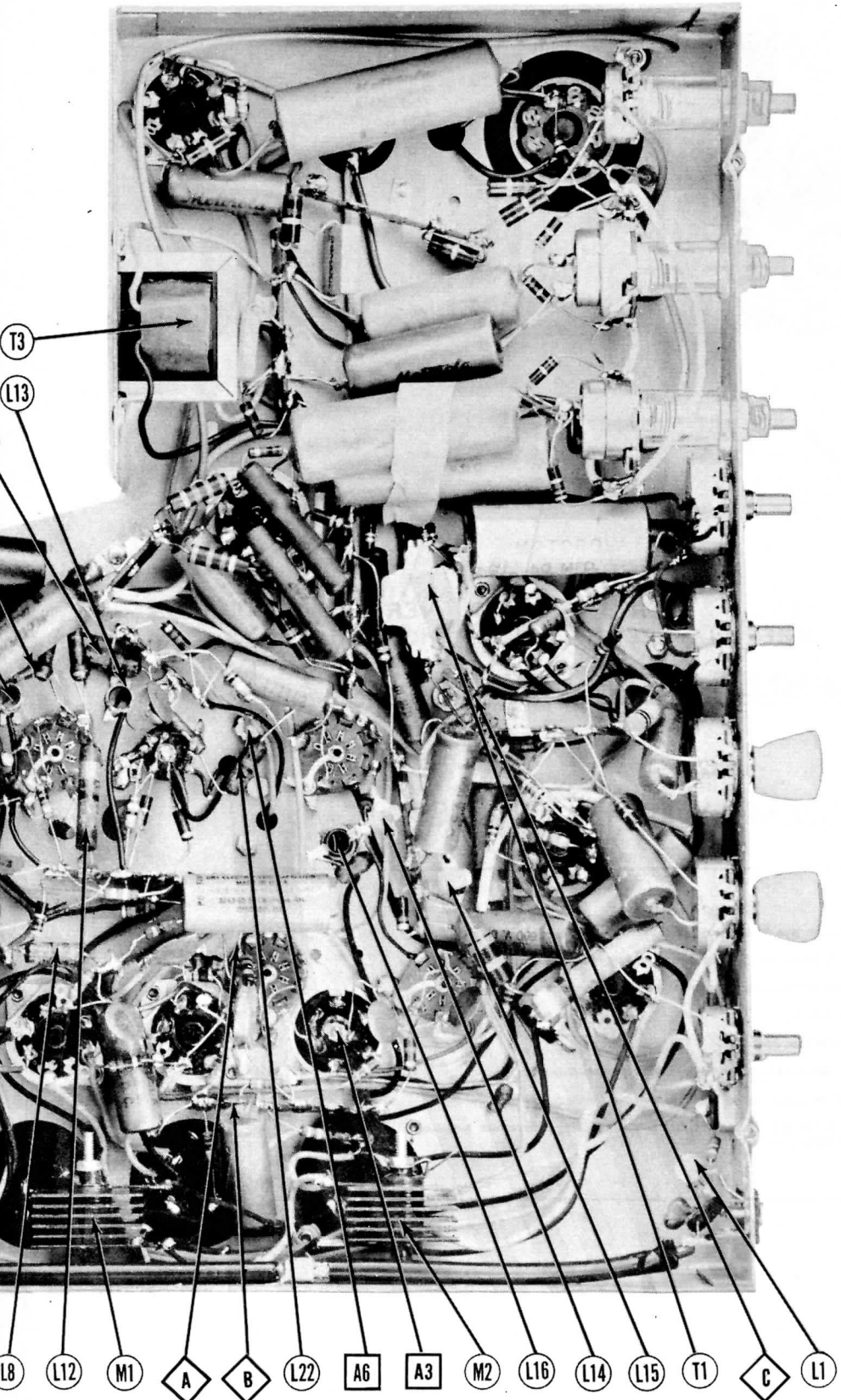
**MOTOROLA MODELS 7Y11,
7Y12, 7Y15, 9Y11, 9Y15, (Ch. TS-18)**

CHASSIS TOP VIEW

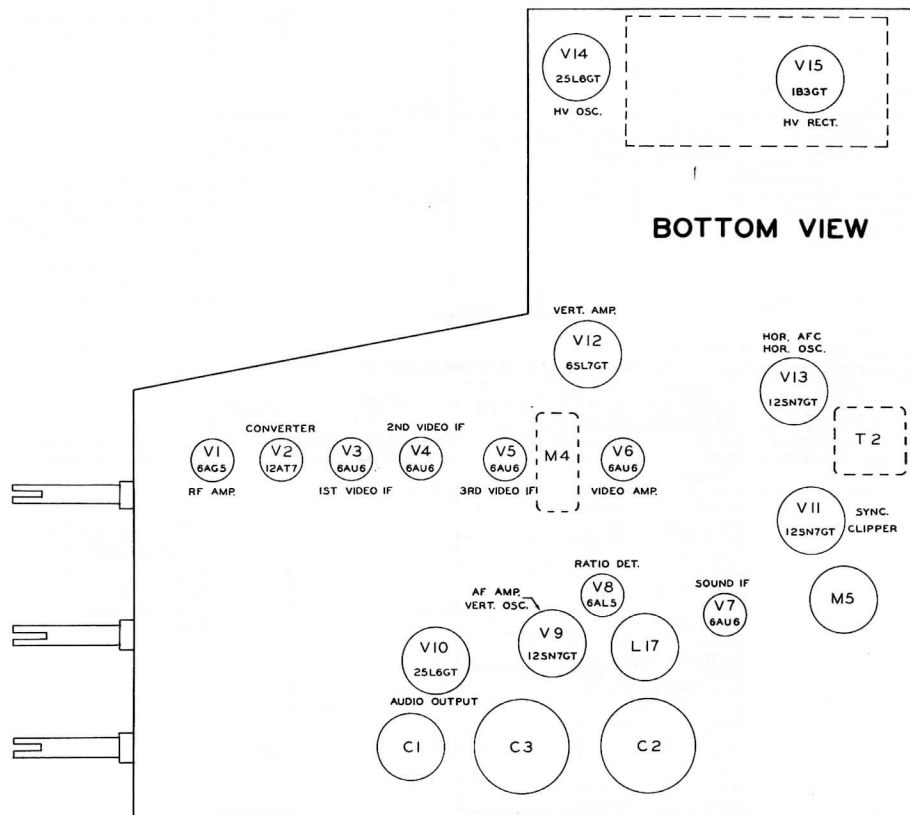
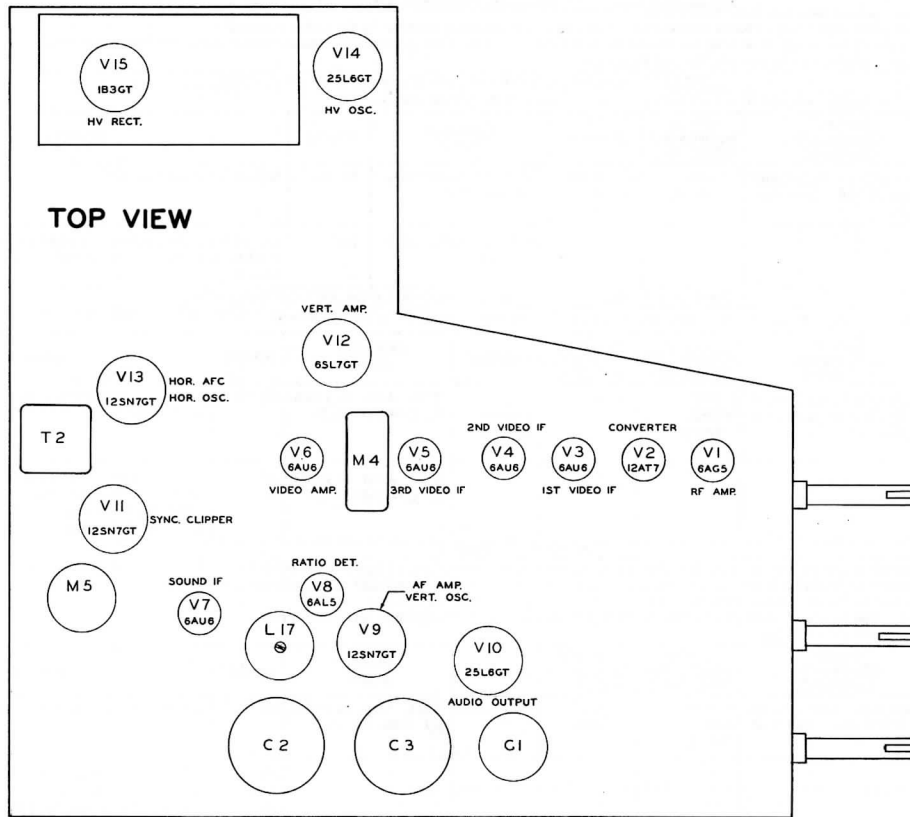




CHASSIS BOTTOM VIEW-TRANS., INDUCTO



DUCTOR AND ALIGNMENT IDENTIFICATION



TUBE PLACEMENT CHART

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT.

If complete receiver alignment is to be performed, it can most conveniently be done in the order outlined. If the picture tube is removed, it will be necessary to short pins 1 and 14 of the picture tube socket to complete the filament circuit. Use an isolation transformer to protect the test equipment.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect a 10KΩ isolating resistor in series with the common lead of the VTVM and B-.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. .01MFD	High side to pin 1 (Grid) of 6AU6 (V6). Low side to B-.	4.5MC (Unmod.)	Any channel unused locally	DC Probe to Point \diamond Common to B-.	A1, A2	Adjust for maximum deflection.
2. .01MFD	"	"	"	DC Probe to Point \diamond Common to B-.	A3	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
1. .01MFD	High side to pin 1 (Grid) of 6AU6 (V6). Low side to B-.	4.5MC (450KC Sweep)	4.5MC	Any channel unused locally	Vert. Amp. to Point \diamond Low side to B-.	A1, A2	Adjust for maximum amplitude and symmetry as per Fig 1.
2. .01MFD	"	"	"	"	Vert. Amp. to Point \diamond Low side to B-.	A3	Adjust A3 so 4.5MC marker occurs at center of crossover lines as per Fig 2. SLIGHTLY retouch A2 for maximum amplitude and straightness of crossover lines.

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Connect the negative lead of a 3 volt battery through 10KΩ to the junction of R20 and C24. Connect the positive lead to B-. Unsolder one end of the oscillator cathode choke (L7), to disable the local oscillator. If a wide band scope is used, connect a 1000MMF capacitor across the vertical amp. input terminals. Set contrast control to minimum.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3. .01MFD	High side to pin 1 (Grid) of 6AU6 (V3). Low side to B-.	24.6MC (12MC Sweep)	22.9MC 26.3MC	Any	Vert. Amp. to Point \diamond Low side to B-.	A4	Adjust A4 for peak response near 26MC.
4. .01MFD	"	"	"	"	"	A5	Adjust A5 for peak response near 24.6MC.
5. .01MFD	"	"	"	"	"	A6	Adjust A6 to place 22.9MC marker at 50% response on the low frequency slope of the response curve.
6. .01MFD	"	"	"	"	"	A4	Adjust A4 to place 26.3MC marker at 50% response on the high frequency slope of the response curve. If necessary slightly retouch A4 thru A7 to obtain proper response as shown in Fig 3.

1st IF TRANSFORMER ALIGNMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. .01MFD	High side to ungrounded tube shield floating over converter tube (V2). Low side to B-.	24.6MC (12MC Sweep)	23.1MC 26.1MC	Any	Vert. Amp. to Point \diamond Low side to B-.	A7, A8	Turn cores of A7 and A8 fully counter clockwise (fully out). Bring both cores in simultaneously until 23.1MC marker occurs at 50% response on the low frequency slope and 26.1MC marker occurs at 50% response on the high frequency slope of response curve as shown in Fig 4. If 2 peaks appear, the dip between them should not exceed 10%.

OSCILLATOR ALIGNMENT

Resolder the cathode choke (L7). Set the fine tuning control to the mid-position of its range. 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
8. Direct	High side to upper "A" terminal. Low side to "G" terminal.	195MC (12MC Sweep)	193.25MC 197.75MC	10	Vert. Amp. to Point \diamond Low side to B-.	A9	Adjust for response curve similar to Fig. 7 with markers as shown.
9. Direct	"	177MC (12MC SWP)	175.25MC 179.75MC	7	"		Check all high band channels to see that markers placement as shown in Fig 7 occurs within 22 1/2 degrees of the mid-position of the fine tuning control range. If may be necessary to expand or compress the turns of L6 to bring channel 13 within the proper range. If L6 is adjusted repeat steps 8 and 9.
		183MC (12MC SWP)	181.25MC 185.75MC	8			
		189MC (12MC SWP)	187.25MC 191.75MC	9			
		201MC (12MC SWP)	199.25MC 203.75MC	11			
		207MC (12MC SWP)	205.25MC 209.75MC	12			
		213MC (12MC SWP)	211.25MC 215.75MC	13			
10. Direct	"	85MC (12MC SWP)	83.25MC 87.75MC	6	"	A10	Expand or compress coil turns to place markers as shown in Fig 7.
		79MC (12MC SWP)	77.25MC 81.75MC	5		A11	
		69MC (12MC SWP)	67.25MC 71.75MC	4		A12	
		63MC (12MC SWP)	61.25MC 65.75MC	3		A13	
		57MC (12MC SWP)	55.25MC 59.75MC	2		A14	

ALIGNMENT INSTRUCTIONS (CONT.)

ANTENNA AND RF ALIGNMENT

Unsolder one end of the cathode choke (L7).
 Note that on the low band channels, the antenna coils are adjusted at the video carrier frequency of each channel and the RF coils are adjusted at the sound carrier frequency of each channel.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
11. Direct	High side to upper "A" terminal. Low side to "G" terminal.	195MC (12MC SWP)	195MC	10	Vert. Amp. to Point \diamond Low side to B-.	A15	Adjust to place 195MC marker at peak of response curve as per Fig 5.
12. Direct	"	177MC (12MC SWP)	177MC	7	"		Check all high band channels for response curve similar to Fig 5. Note the possible variation. If necessary slightly expand or compress LA to obtain proper response on channel 13. If LA is adjusted repeat steps 11 and 12.
		183MC (12MC SWP)	183MC	8			
		189MC (12MC SWP)	189MC	9			
		201MC (12MC SWP)	201MC	11			
		207MC (12MC SWP)	207MC	12			
213MC (12MC SWP)	213MC	13					
13. Direct	"	85MC (12MC SWP)	83.25MC 87.75MC	6	"	A16 A17	Expand or compress turns of antenna coil (A16) to place 83.25MC marker as shown in Fig 6. Adjust RF coil turns (A17) to place 87.75MC marker as shown in Fig. 6.
14. Direct	"	79MC (12MC SWP)	77.25MC 81.75MC	5	"	A18 A19 A20 A21 A22 A23 A24 A25	Adjust coil turns to place markers as shown in Fig 6, making sure the antenna coil is adjusted to place the video marker and the RF coil is adjusted to place the sound marker. Note the possible variations.
		89MC (12MC SWP)	87.25MC 91.75MC	4			
		83MC (12MC SWP)	81.25MC 85.75MC	3			
		57MC (12MC SWP)	55.25MC 59.75MC	2			

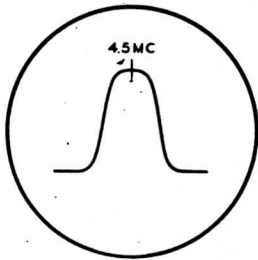


FIG. 1

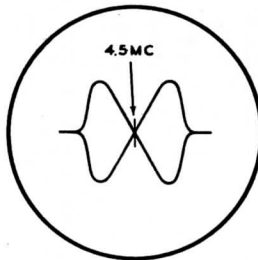


FIG. 2

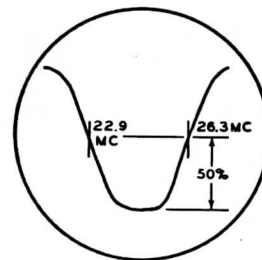


FIG. 3

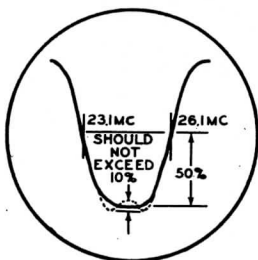


FIG. 4

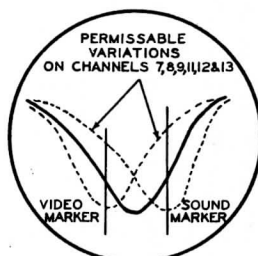


FIG. 5

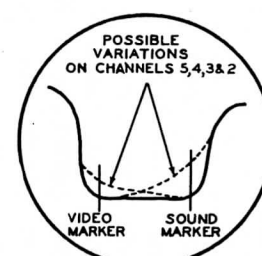


FIG. 6

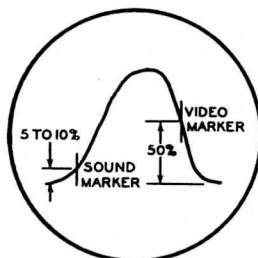


FIG. 7

**MOTOROLA MODELS 7VT1,
 7VT2, 7VT5, 9VT1, 9VT5, (Ch. 15-18)**

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	6AG5	#0V	#.6VDC	52VAC	48VAC	#105VDC	#105VDC	#.6VDC			
V 2	12AT7	107VDC	-1VDC	2.9VDC	41VAC	41VAC	215VDC	§-7.5VDC	.1VDC	48VAC	
V 3	6AU6	-.1VDC	.8VDC	41VAC	34VAC	120VDC	120VDC	.8VDC			
V 4	6AU6	+.2VDC	+.8VDC	34VAC	27VAC	+100VDC	+100VDC	+.8VDC			
V 5	6AU6	#.7VDC	#1.3VDC	27VAC	20VAC	#110VDC	#110VDC	#1.3VDC			
V 6	6AU6	0V	4.9VDC	19.5VAC	13VAC	215VDC	232VDC	4.9VDC			
V 7	6AU6	#0V	#1VDC	53VAC	59VAC	#107VDC	#107VDC	#1VDC			
V 8	6AL5	.3VDC	-.3VDC	13VAC	6.3VAC	0V	0V	0V			
V 9	12SN7GT	-.5VDC	17VDC	0V	-.7VDC	7VDC 30VDC	0V	19.5VAC	6.5VAC		
V 10	25L6GT	0V	59VAC	105VDC	110VDC	0V	0V	83VAC	9.7VDC		
V 11	12SN7GT	-1VDC	11VDC	0V	#-.3VDC	#70VDC	0V	34VAC	48VAC		
V 12	6SL7GT	±-.7VDC	+450VDC	0V	+1.1VDC	+320VDC	0V	55VAC	48VAC		
V 13	12SN7GT	-40VDC	245VDC	120VDC	3.1VDC	-50VDC	-50VDC	6.6VDC	19.5VAC	34VAC	
V 14	25L6GT	0V	55VAC	225VDC	225VDC	-37VDC	0V	83VAC	3.7VDC		
V 15	1B3GT	* DO NOT MEASURE									
	PINS	1	2	3	5	7	8	9	10	11	14
V16	7JP4	0V	0V 220VDC	0V	*	*	*	*	*	*	6.5VAC

§ TAKEN WITH VACUUM TUBE VOLTMETER

* DO NOT MEASURE

MEASURED FROM PIN 4 OF V10

♦ MEASURED FROM PIN 6 OF V3

‡ VOLTAGE WILL VARY WITH SETTING OF VERT. SIZE AND VERT. HOLD CONTROLS

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	
V 1	6AG5	#15KΩ	#68Ω	28Ω	26Ω	†1.2KΩ	†1.2KΩ	#68Ω			
V 2	12AT7	#1000Ω	33KΩ	1.2KΩ	23Ω	23Ω	†1.2KΩ	10KΩ	2Ω	28Ω	
V 3	6AU6	1.5 Meg.	82Ω	23Ω	19.5Ω	♦0Ω	♦0Ω	82Ω			
V 4	6AU6	†2 Meg.	†82Ω	19Ω	14.8Ω	†300Ω	†300Ω	†82Ω			
V 5	6AU6	#100Ω	#182Ω	13.8Ω	9.6Ω	†440Ω	†440Ω	#182Ω			
V 6	6AU6	1 Meg.	1.5KΩ	8.6Ω	4.2Ω	†11.5KΩ	†4.7KΩ	1.5KΩ			
V 7	6AU6	#1Ω	150Ω	29Ω	32Ω	†1.2KΩ	†1.2KΩ	150Ω			
V 8	6AL5	6.8KΩ	6.8KΩ	4.2Ω	1Ω	1 Meg.	470KΩ	1 Meg.			
V 9	12SN7GT	4.7 Meg.	†440KΩ	0Ω	3.3 Meg.	†7.2 Meg.	†2.2 Meg.	0Ω	10Ω	1Ω	
V 10	25L6GT	Inf.	32Ω	#220Ω	#0Ω	470KΩ	Inf.	40Ω	330Ω		
V 11	12SN7GT	1 Meg.	#1 Meg.	0Ω	#10KΩ	†7KΩ	#0Ω	15Ω	21Ω		
V 12	6SL7GT	10 Meg.	▲ 20 Meg.	0Ω	10 Meg.	▲ 20 Meg.	0Ω	23.5Ω	21Ω		
V 13	12SN7GT	18 KΩ 8.5KΩ	†20KΩ †520Ω	200Ω	18KΩ 8.5KΩ	18KΩ 8.5KΩ	3.5KΩ	10Ω	15Ω		
V 14	25L6GT	Inf.	23.5Ω	†320Ω	†350Ω	150KΩ	0Ω	38Ω	100Ω		
V 15	1B3GT	Inf.	50 Meg.	Inf.	Inf.	Inf.	50 Meg.	50 Meg.	Inf.	TOP CAP †1000Ω	
	PINS	1	2	3	5	7	8	9	10	11	14
V16	7JP4	0Ω	†750KΩ †500KΩ	0Ω	▲12 Meg.	▲5.5 Meg.	▲5.5 Meg.	▲100KΩ	▲5.5 Meg.	▲5.5 Meg.	1.5Ω

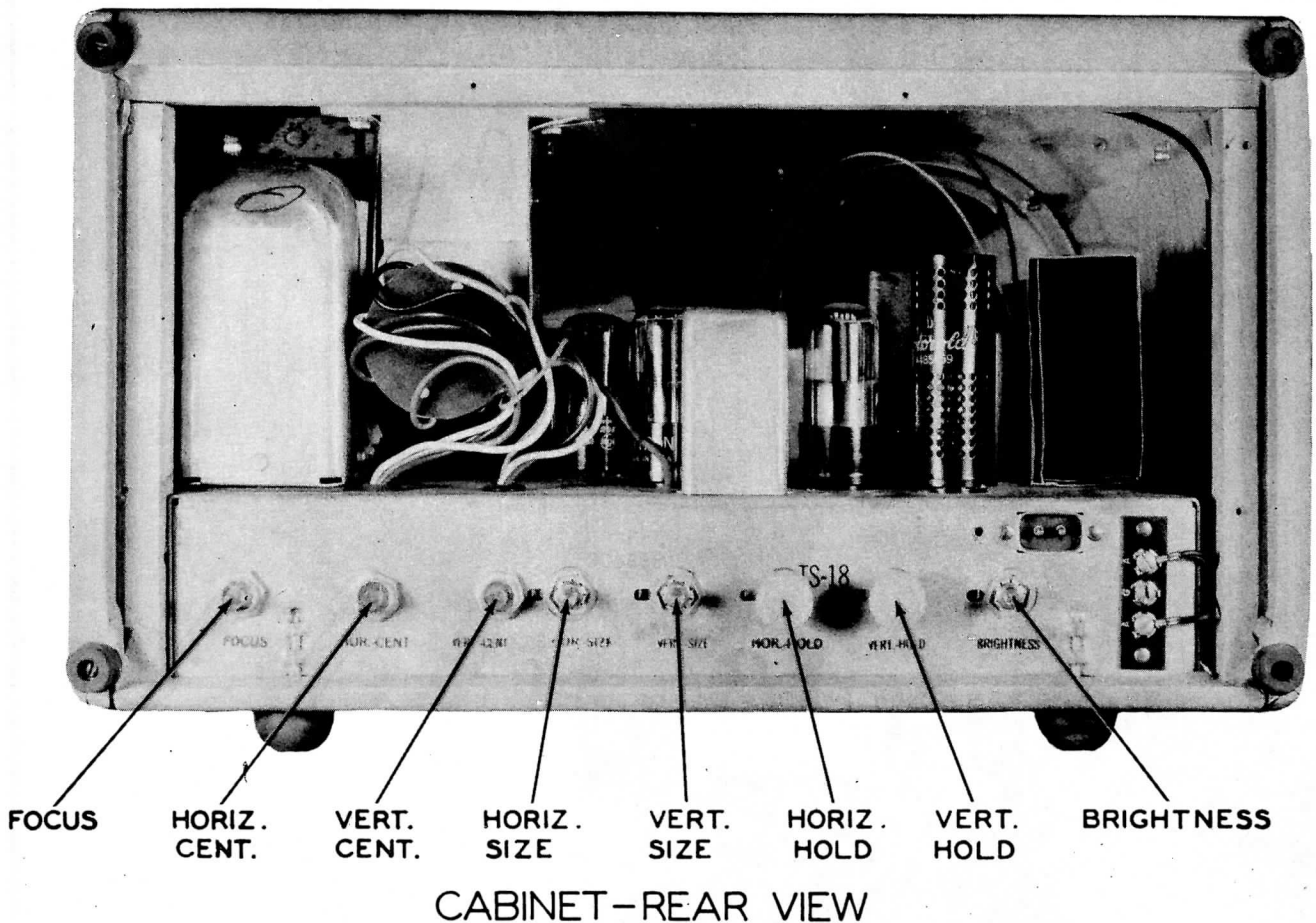
† MEASURED FROM PIN 4 OF M5

MEASURED FROM PIN 4 OF V10

♦ MEASURED FROM PIN 6 OF V3

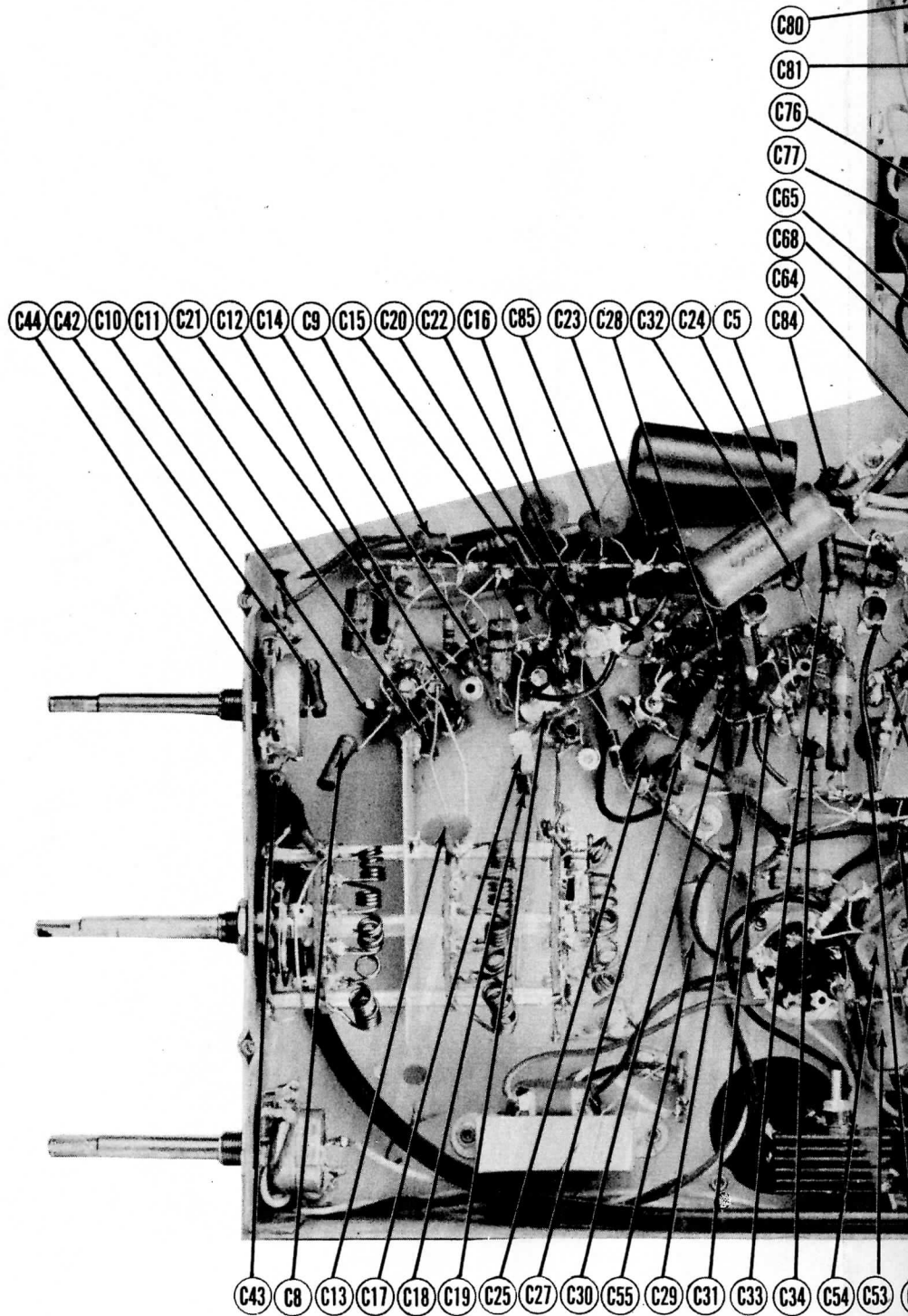
▲ MEASURED FROM PIN 2 OF V15

- 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.

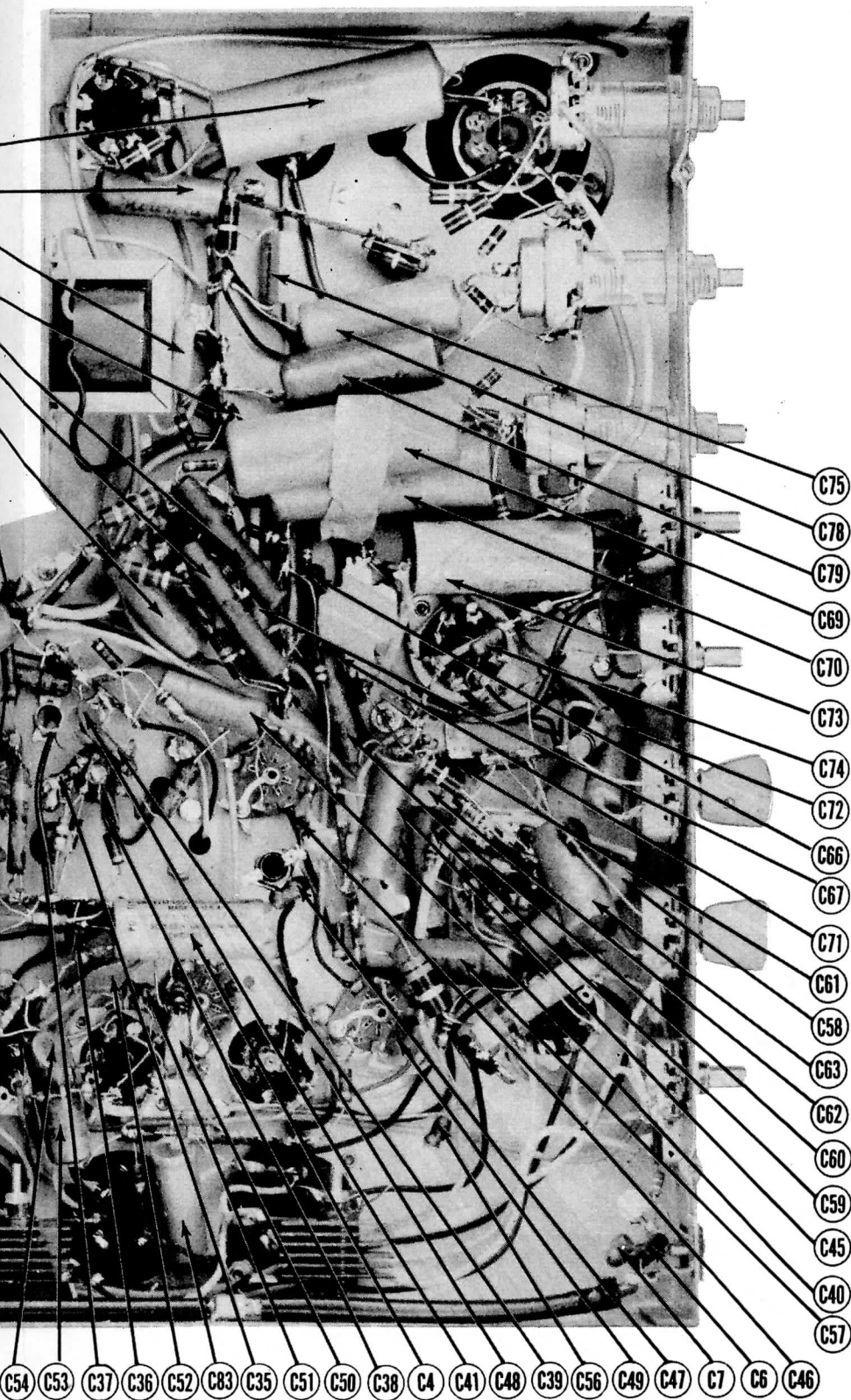


DISASSEMBLY INSTRUCTIONS

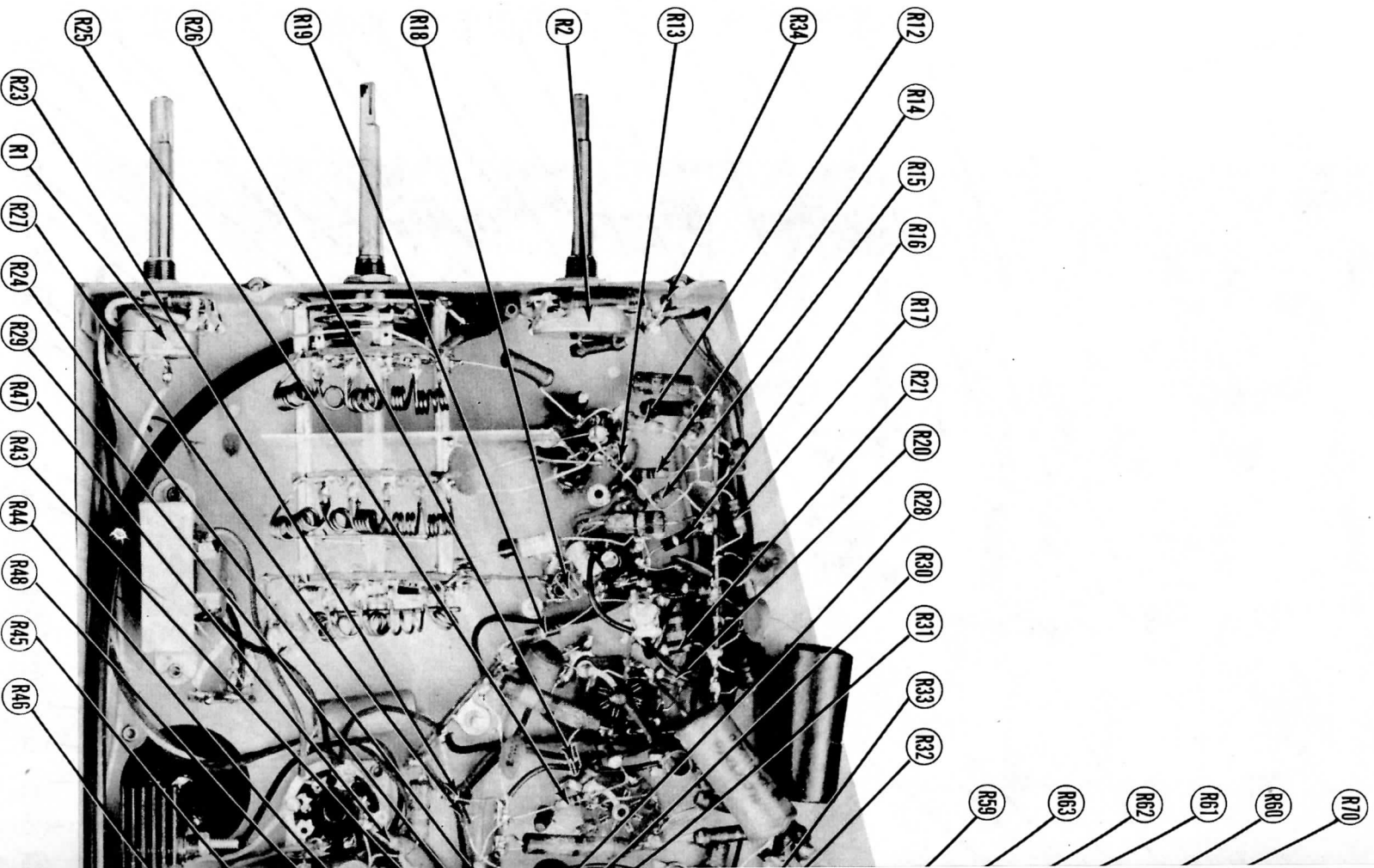
1. Remove three push-on type control knobs.
2. Remove one 1/4" hex head bolt and six screws holding rear cover. Remove cover.
3. Loosen two screws holding antenna terminal lugs. Remove lugs.
4. Disconnect speaker plug.
5. Remove picture tube base socket.
6. Remove four 1/4" hex head bolts holding chassis. Remove chassis.
7. Remove four 5/16" hex nuts holding speaker. Remove speaker
8. Remove one 1/4" hex head bolt and two 11/32" hex nuts holding picture tube mounting bracket. Remove mounting bracket and tube.



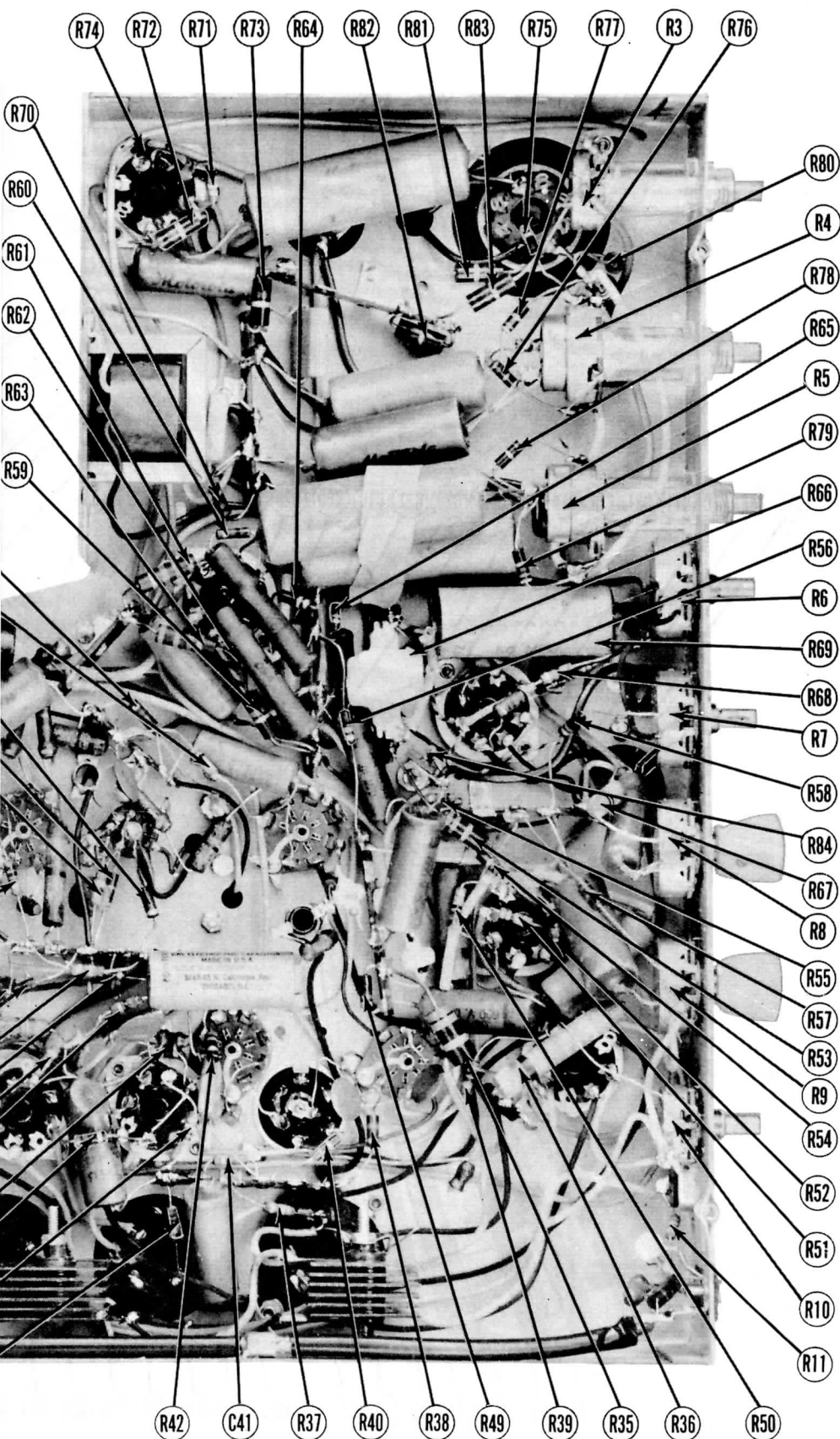
CHASSIS BOTTOM VIEW-CAP



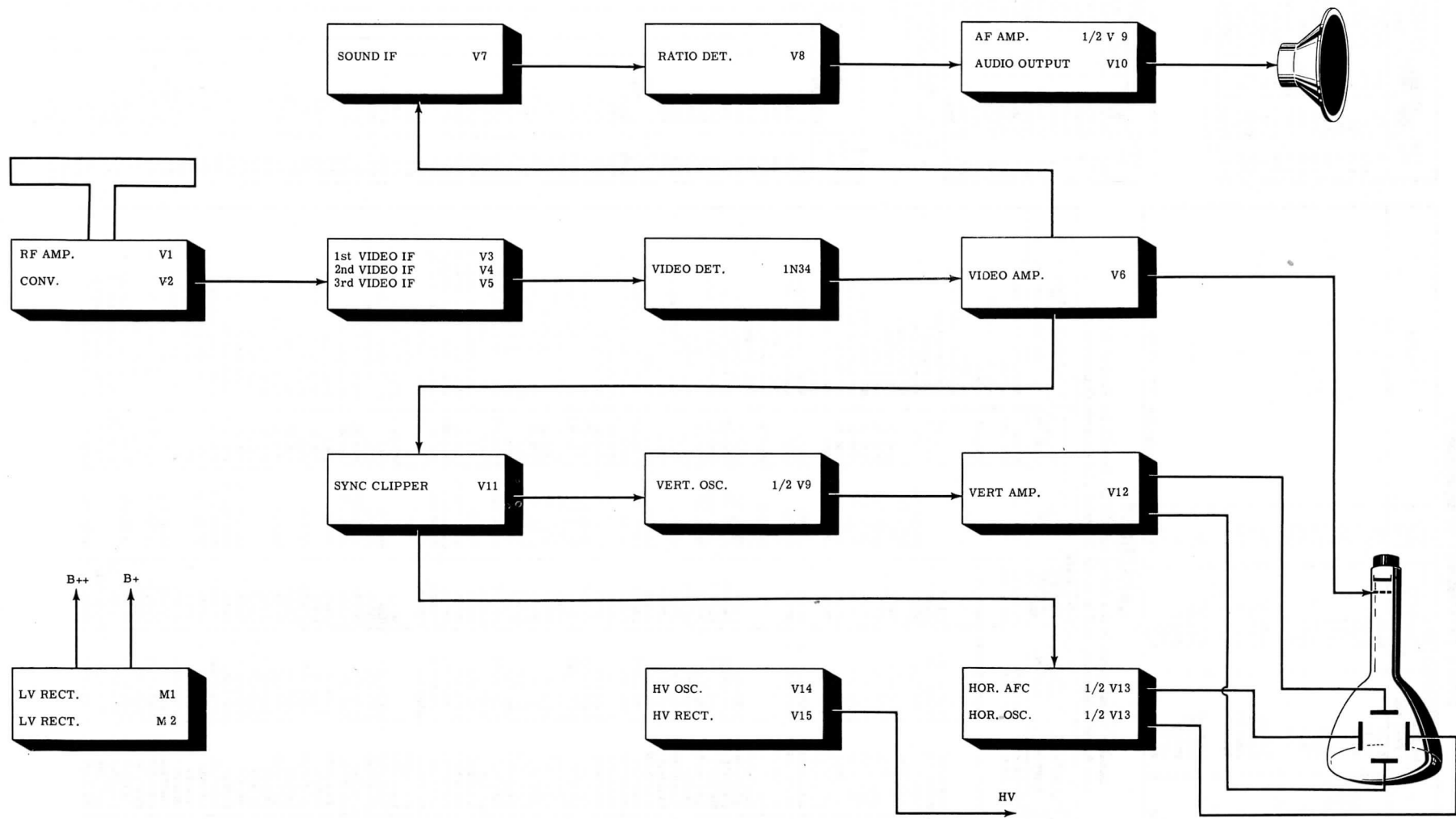
-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RES



- RESISTOR IDENTIFICATION



BLOCK DIAGRAM

MOTOROLA MODELS 7V11, 7V12, 7V15, 9V11, 9V15, (Ch. 15-18)

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		MOTOROLA PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6AG5	6AG5	7BD	
V2	Converter	12AT7	12AT7	9A	
V3	1st Video IF Amp.	6AU6	6AU6	7BK	
V4	2nd Video IF Amp.	6AU6	6AU6	7BK	
V5	3rd Video IF Amp.	6AU6	6AU6	7BK	
V6	Video Amp.	6AU6	6AU6	7BK	
V7	Sound IF Amp.	6AU6	6AU6	7BK	
V8	Ratio Det.	6AL5	6AL5	6BT	
V9	AF Amp.-Vert. Osc.	12SN7GT	12SN7GT	8BD	
V10	Audio Output	25L6GT	25L6GT	7AC	
V11	Sync. Clipper	12SN7GT	12SN7GT	8BD	
V12	Vert. Amp.	6SL7GT	6SL7GT	8BD	
V13	Hor. AFC-Hor. Osc.	12SN7GT	12SN7GT	8BD	
V14	HV Osc.	25L6GT	25L6GT	7AC	
V15	HV Rectifier	1B3GT	1B3GT	3C	
V16A	Picture Tube	7JP4	7JP4	14G	
B	Picture Tube	8BP4	8BP4	14G	Used in models 9VT1, 9VT5.

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 CAP. VOLT	REPLACEMENT DATA			ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		MOTOROLA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.			
C1	140 150	23B484097	AFH28D	UP6A7333		D6282	Voltage Doubler Cap.
C2A	120 300	23B90134	AFH244G	UP9BJ993		TVL-46	Filter
B	20 300						Low Pass Filter
C3A	100 300	23B90136	AFH20G12D4A	UP9CJ994		TVL-51	Filter
B	60 150						Filter
C	20 25						Output Cathode Bypass
C4	10 50	23A90205	PRS50/10	BR105		TVA-14	Stabilizing Cap.
C5	10 450	23K489031	PRS450/12	BR1045		TVA-21	Decoupling *
C6	100 300	21R6631	1469-0001	5R5T1	NPOM-100	MS-31	Fixed Padder
C7	30	21K470329			GPIK-33		RF Coupling
C8	100	21B77286	1468-0001	5W5T1			RF Coupling
C9	1000	21K478410	1468-001	1W5D1		IFM-31	RF Bypass
C10	1000	21K478410	1468-001	1W5D1		GP2L-001	RF Bypass
C11	1000	21K478410	1468-001	1W5D1		IFM-21	RF Cathode Bypass
C12	1000	21K478410	1468-001	1W5D1		GP2L-001	RF Cathode Bypass
C13	10000	21K482726	1467-01	ID5S1		IFM-21	RF Decoupling
C14	6	21K470324				36C1	RF Decoupling
C15	5000	21A470789	1467-005	ID5D5		29C1	Mixer Cathode Bypass
C16	5000	21A470789	1467-005	ID5D5		29C1	Mixer Filter Decoupling
C17	2	21K478280					Osc. Coupling
C18	15	21K790541				GPIK-15	Osc. Grid Cap.
C19	2	21K478280					Osc. Feedback
C20	1000	21K478410	1468-001	1W5D1		GP2L-001	Osc. Plate Bypass
C21	250	21K77375	1468-00025	5W5T25		GP2K-250	RF Filament Bypass
C22	250	21K77375	1468-00025	5W5T25		GP2K-250	Mixer Filament Bypass
C23	1000	21K478410	1468-001	1W5D1		GP2L-001	AGC Filter
C24	.25	8R9810	P488-25	GT2P25		TC-2	AGC Filter
C25	5000	21A470789	1467-005	ID5D5		29C1	1st V. IF Cath. Bypass
C26	.5	8A484814	P288-5	GT2P5		TC-5	Decoupling *
C27	5000	21A470789	1467-005	ID5D5		29C1	Decoupling
C28	250	21K77375	1468-00025	5W5T25		GP2K-250	1st V. IF Fil. Bypass
C29	5000	21A470789	1467-005	ID5D5		29C1	2nd V. IF Grid Decoupling
C30	1000	21K478410	1468-001	1W5D1		GP2L-001	IF Coupling
C31	1000	21K478410	1468-001	1W5D1		GP2L-001	2nd V. IF Cath. Bypass
C32	250	21K77375	1468-00025	5W5T25		GP2K-250	2nd V. IF Fil. Bypass
C33	250	21K77375	1468-00025	5W5T25		GP2K-250	2nd V. IF Fil. Bypass
C34	1000	21K478410	1468-001	1W5D1		GP2L-001	2nd V. IF Decoupling
C35	1000	21K478410	1468-001	1W5D1		GP2L-001	3rd V. IF Decoupling
C36	1000	21K478410	1468-001	1W5D1		GP2L-001	3rd V. IF Decoupling
C37	5000	21A470789	1467-005	ID5D5		29C1	3rd V. IF Cath. Bypass
C38	5000	21A470789	1467-005	ID5D5		29C1	3rd V. IF Decoupling
C39	250	21K77375	1468-00025	5W5T25		GP2K-250	3rd V. IF Fil. Bypass
C40	.1	8R9814	P288-1	GT2P1		TM-1	Video Coupling
C41	5000	21A470789	1467-005	ID5D5		29C1	Video Amp. Cath. Bypass
C42	1000	21K780598	1468-001	1W5D1		GP2L-001	Video Amp. Cath. Bypass
C43	750	21K780598	1468-00075	1W5T8		GP2K-750	Video Amp. Cath. Bypass
C44	250	21K77375	1468-00025	5W5T25		GP2K-250	Video Amp. Cath. Bypass
C45	.05	8R9873	P688-05	GT6S5			Video Coupling
C46	2.2	21A478274					S. IF Coupling
C47	70	21K470328		5R5Q7		MS-47	Fixed Trimmer
C48	5000	21A470789	1467-005	ID5D5		29C1	S. IF Cath. Bypass
C49	5000	21A470789	1467-005	ID5D5		29C1	S. IF Decoupling
C50	500 500	21R6590	1468-0005	5W5T5		GP2K-500	Diode Load Cap.
C51	1000	21K478410	1468-001	1W5D1		GP2L-001	De-emphasis
C52	10000	21K482726	P688-01	GT6S1		821-01	Audio Coupling
C53	.05	8R9819	P688-05	GT6S5		TM-15	AF Plate Decoupling
C54	5000	21A470789	P688-005	GT6D5		29C1	Audio Coupling
C55	.02	8R9840	P688-02	GT6S2		TM-12	Output Plate Bypass
C56	1000	21K478410	1468-001	1W5D1		GP2L-001	S. IF Fil. Bypass
C57	.05	8R9873	P688-05	GT6S5		TM-15	Sync. Coupling
C58	.05	8R9873	P688-05	GT6S5		TM-15	Sync. Coupling
C59	.01	8R9834	P688-01	GT6S1		GP2-335-01	Integrator Net.
C60	.01	8R9834	P688-01	GT6S1		GP2-335-01	Integrator Net.
C61	250	21K77375	1468-00025	5W5T25		GP2K-250	Vert. Sync. Coupling
C62	1000	21R6663	1468-001	1W5D1		GP2L-001	Vert. Osc. Feedback
C63	.1	8R9874	P688-1	GT6P1		TM-1	Vert. Discharge
C64	.05	8R9873	P688-05	GT6S5		TM-15	Vert. Sweep Coupling
C65	100	21B77286	1468-0001	5W5T1		GPIK-100	Voltage Divider
C66	250	21K77375	1468-00025	5W5T25		GP2K-250	Voltage Divider
C67	.004	8R41156	P688-004	GT6D4		TM-24	Integrator Net.
C68	250	21K77375	1468-00025	5W5T25		GP2K-250	Vert. Output Plate Bypass
C69	.005	8A471348	7584-005	DSTH-60D5		TVM-256	Vert. Sweep Coupling
C70	.005	8A471348	7584-005	DSTH-60D5		TVM-256	Vert. Sweep Coupling
C71	100	21B77286	1468-0001	5W5T1		GPIK-100	Fixed Trimmer

CAPACI

ITEM No.	RATING		REPLACEMENT DATA		
	CAP.	VOLT	MOTOROLA PART No.	AEROVOX PART No.	COI DU PAR
C72	.03	600	8R9860	P688-03	GT6
C73	.5	200	8R9822	P288-5	GT2
C74	20	200	21K470322		5R5
C75	900	2000	21A790475		
C76	680	2000	21K790478		
C77	200	2000	21K790477		
C78	.001	6000	8A480255	7584-001	DSTE
C79	.001	6000	8A480255	7584-001	DSTE
C80	.005	6000	8A471348	7584-005	DSTE
C81	.05	600	8R9819	P688-05	GT6
C82	1250	500	21R2742		
C83	.05	600	8R9819	P688-05	GT6
C84	1000		21K478410	1468-001	1W5

* Not used in all models.

ITEM No.	RATING		REPLACEMENT DATA		
	RESIST-ANCE	WATTS	MOTOROLA PART No.	IRC PART No.	CL. P.
RIA	1 Meg.		18A90142	Q13-137	AM-
B	Shaft		Not Req.	Not Req.	KSS-
C	Switch		Not Req.	76-1	SW-
R2	2000Ω		18A780359		
R3	2.5 Meg.		18A90148	Q11-239	§
R4	2 Meg.		18A484192		
R5	2 Meg.		18A478285		AT-1
R6	20KΩ		18A90144	Q16-119	
R7	5 Meg.		18A90145	Q11-141	M-8
R8	10KΩ		18A780098	Q11-116	M-2
R9	5 Meg.		18A90145	Q11-141	M-8
R10	1 Meg.		18A90147	Q11-137	M-6

§ Use original insulated spacer bushing and shaft with ring should be removed from new control to allow tonging § Saw shaft of new control to desired length, and file s spacer bushing and shaft with new control.

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	MOTOROLA PART No.	IRC PART No.	
R11	470KΩ		6R6377	BTS-470K	
R12	15KΩ		6R6477	BTS-15K	
R13	68Ω		6R2039		
R14	1000Ω		6R6229	BTS-1000	
R15	33KΩ		6R6410	BTS-33K	
R16	1200Ω		6R6393	BTS-1200	
R17	1000Ω		6R6229	BTS-1000	
R18	10KΩ		6R6320	BTS-10K	
R19	1000Ω		6R6229	BTS-1000	
R20	5000Ω		6R6117		
R21	82Ω		6R2035		
R22	220Ω		6R6270		
R23	4.7 Meg.		6R6446	BTS-4.7 Meg.	
R24	3.9 Meg.		6R49011	BTS-3.9 Meg.	
R25	22KΩ		6R6397	BTS-22K	
R26	82Ω		6R2035		
R27	100Ω		6R6326		
R28	3900Ω		6R5659	BTS-3900	
R29	100Ω		6R6326		
R30	82Ω		6R2035		
R31	220Ω		6R6270		
R32	1.5 Meg.		6R6460	BTS-1.5 Meg.	
R33	1 Meg.		6R6046	BTS-1 Meg.	
R34	180Ω		6R5660		
R35	6800Ω	2	6R5900	BT-2-6800	
R36	4700Ω	2	6R5671	BT-2-4700	
R37	470KΩ		6R6377	BTS-470K	
R38	150Ω		6R6373		
R39	1000Ω		6R6229	BTS-1000	
R40	180Ω		6R5660		
R41	33KΩ		6R6410	BTS-33K	
R42	6800Ω		6R6428	BTS-6800	
R43	6800Ω		6R6428	BTS-6800	
R44	4.7 Meg.		6R6446	BTS-4.7 Meg.	
R45	220KΩ		6R6407	BTS-220K	
R46	220KΩ		6R6407	BTS-220K	
R47	470KΩ		6R6377	BTS-470K	
R48	330Ω		6R6022	BW-1-330	
R49	10KΩ		6R6320	BTS-10K	
R50	1 Meg.		6R6046	BTS-1 Meg.	
R51	1 Meg.		6R6046	BTS-1 Meg.	
R52	10KΩ		6R6320	BTS-10K	
R53	6800Ω	1	6R5691	TA-6800	
R54	47KΩ		6R6048	BTS-47K	
R55	10KΩ		6R6320	BTS-10K	
R56	100KΩ		6R6031	BTS-100K	
R57	3.3 Meg.		6R6497	BTS-3.3 Meg.	
R58	2.2 Meg.		6R6433	BTS-2.2 Meg.	
R59	22 Meg.	1	6R488252	BT-A-22 Meg.	
R60	10 Meg.		6R5622	BTS-10 Meg.	
R61	6.8 Meg.	1	6R488157	BT-A-6.8 Meg.	
R62	10 Meg.		6R5622	BTS-10 Meg.	
R63	6.8 Meg.	1	6R488157	BT-A-6.8 Meg.	
R64	100KΩ		6R6031	BTS-100K	
R65	220KΩ		6R6407	BTS-220K	
R66	15KΩ		6R6477	BTS-15K	
R67	8200Ω		6R5610	BT-A-8200	
R68	4700Ω		6R6080	BTS-4700	
R69	15KΩ		6R6477	BTS-15K	
R70	3300Ω		6R5581	BTS-3300	

PARTS LIST AND DESCRIPTIONS

CAPACITORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	MOTOROLA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C72	.03	600	8R9860	P688-03	G7633		TM-13	AFC Filter
C73	.5	200	8R9822	P288-5	G72P5		TC-5	AFC Filter
C74	20		21K470322		5R5Q2	NPOK-20	MS-42	Fixed Trimmer
C75	900	2000	21A790475					Fixed Trimmer
C76	680	2000	21K790478					Fixed Trimmer
C77	200	2000	21K790477					Differentiator Net.
C78	.001	6000	8A480255	7584-001	DSTH-60D1		TVM-216	Hor. Sweep Coupling
C79	.001	6000	8A480255	7584-001	DSTH-60D1		TVM-216	Hor. Sweep Coupling
C80	.005	6000	8A471348	7584-005	DSTH-60D5		TVM-256	HV Filter
C81	.05	600	8R9819	P688-05	G7635		TM-15	HV Osc. Decoupling
C82	1250	500	21R2742					Fixed Trimmer
C83	.05	600	8R9819	P688-05	G7635		TM-15	Line Filter
C84	1000		21K478410	1468-001	1W5D1	GP2L-001	IFM-21	Filament Bypass *

* Not used in all models.

ITEM No.	RATING		MOTOC
	RESISTANCE	WATTS	
R71	150KΩ	1/2	6R6398
R72	100Ω	1	6R6415
R73	100Ω	1	6R6411
R74	33Ω 5%		6R2031
R75	100KΩ		6R6031
R76	4.7 Meg.		6R0441
R77	4.7 Meg.		6R0441
R78	4.7 Meg.		6R0441
R79	4.7 Meg.		6R0441
R80	2.7 Meg.	1	6R4881
R81	2.7 Meg.	1	6R4881
R82	2.2 Meg.	1	6R2011
R83	2.2 Meg.	1	6R2011
R84	470KΩ	1/2	6R6371

Note. Not used in all models.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESISTANCE	WATTS	MOTOROLA PART No.	IRC PART No.	CLAROSTAT PART No.	
RIA	1 Meg.	1/2	18A90142	Q13-137	AM-63-Z	Volume control
B	Shaft		Not Req.	Not Req.	KSS-3	Attach to R1A per instructions
C	Switch		Not Req.	76-1	SW-A	Attach to R1A per instructions
R2	2000Ω		18A780359			Contrast control, tapped at 1000Ω, 1500Ω
R3	2.5 Meg.		18A90148	Q11-239 §		Focus control
R4	2 Meg.		18A484192			Horiz. centering control, tapped at 400KΩ and 1 Meg.
R5	2 Meg.		18A478285		AT-116 #	Vert. centering control, tapped at 1 meg.
R6	20KΩ		18A90144	Q16-119		Horiz. Size control
R7	5 Meg.		18A90145	Q11-141	M-85-S	Vert. size control
R8	10KΩ		18A780098	Q11-116	M-27-S	Horiz. hold control
R9	5 Meg.		18A90145	Q11-141	M-85-S	Vert. hold control
R10	1 Meg.		18A90147	Q11-137	M-61-S	Brightness control

Use original insulated spacer bushing and shaft with A. T. control. No additional shaft is required. Lock ring should be removed from new control to allow tongue of insulated shaft to engage into slot.
 § Saw shaft of new control to desired length, and file slot in shaft to duplicate original, use original insulated spacer bushing and shaft with new control.

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	MOTOROLA PART No.	IRC PART No.	
R11	470KΩ	1/2	6R6377	BTS-470K	ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.
R12	15KΩ		6R6477	BTS-15K	Ant. Isolation
R13	68Ω		6R2039		RF Grid
R14	1000Ω		6R6229	BTS-1000	RF Cathode
R15	33KΩ		6R6410	BTS-33K	RF Decoupling
R16	1200Ω		6R6393	BTS-1200	Conv. Grid
R17	1000Ω		6R6229	BTS-1000	Conv. Cathode
R18	10KΩ		6R6320	BTS-10K	Conv. Decoupling
R19	1000Ω		6R6229	BTS-1000	Osc. Grid
R20	5600Ω		6R6117		Osc. Plate Decoupling
R21	82Ω		6R2035		1st Video IF Grid
R22	220Ω		6R6270		1st Video IF Cathode
R23	4.7 Meg.		6R6446	BTS-4.7 Meg.	Voltage Divider See Note
R24	3.9 Meg.		6R490110	BTS-3.9 Meg.	Bias Network
R25	22KΩ		6R6397	BTS-22K	2nd Video IF Coil Shunt
R26	82Ω		6R2035		2nd Video IF Cathode
R27	100Ω		6R6326		2nd Video IF Decoupling
R28	3900Ω		6R5659	BTS-3900	3rd Video IF Coil Shunt
R29	100Ω		6R6326		Voltage Dropping
R30	82Ω		6R2035		3rd Video IF Cathode
R31	220Ω		6R6270		3rd Video IF Decoupling
R32	1.5 Meg.		6R6460	BTS-1.5 Meg.	Bias Network
R33	1 Meg.		6R6046	BTS-1 Meg.	Video Amp. Grid
R34	180Ω		6R5660		Voltage Divider
R35	6800Ω	2	6R5690	BT-2-6800	Video Amp. Plate
R36	4700Ω	2	6R5671	BT-2-4700	Video Amp. Decoupling
R37	470KΩ		6R6377	BTS-470K	Voltage Divider
R38	150Ω		6R6373		Sound IF Cathode
R39	1000Ω		6R6229	BTS-1000	Sound IF Decoupling
R40	180Ω		6R5660		Balancing
R41	33KΩ		6R6410	BTS-33K	De-emphasis
R42	6800Ω		6R6428	BTS-6800	Ratio Det. Diode Load
R43	6800Ω		6R6428	BTS-6800	Ratio Det. Diode Load
R44	4.7 Meg.		6R6446	BTS-4.7 Meg.	AF Grid
R45	220KΩ		6R6407	BTS-220K	AF Plate
R46	220KΩ		6R6407	BTS-220K	AF Plate Decoupling
R47	470KΩ		6R6377	BTS-470K	Output Grid
R48	330Ω		6R6022	BW-1/2-330	Output Cathode
R49	10KΩ		6R6320	BTS-10K	Isolation
R50	1 Meg.		6R6046	BTS-1 Meg.	Sync. Clipper Grid
R51	1 Meg.		6R6046	BTS-1 Meg.	Sync. Clipper Plate
R52	10KΩ		6R6320	BTS-10K	Sync. Clipper Grid
R53	6800Ω		6R5691	BTA-6800	Sync. Clipper Plate
R54	47KΩ		6R6048	BTS-47K	Integrator
R55	10KΩ		6R6320	BTS-10K	Integrator
R56	100KΩ		6R6031	BTS-100K	Feedback
R57	3.3 Meg.		6R6497	BTS-3.3 Meg.	Vert. Osc. Grid
R58	2.2 Meg.		6R6433	BTS-2.2 Meg.	Vert. Osc. Plate
R59	22 Meg.		6R488252	BTA-22 Meg.	Voltage Divider
R60	10 Meg.		6R5622	BTS-10 Meg.	Vert. Amp. Grid
R61	6.8 Meg.		6R488157	BTA-6.8 Meg.	Vert. Amp. Plate
R62	10 Meg.		6R5622	BTS-10 Meg.	Vert. Amp. Grid
R63	6.8 Meg.		6R488157	BTA-6.8 Meg.	Vert. Amp. Plate
R64	100KΩ		6R6031	BTS-100K	Voltage Divider
R65	220KΩ		6R6407	BTS-220K	Voltage Divider
R66	15KΩ		6R6477	BTS-15K	Horiz. AFC Transformer Shunt
R67	8200Ω		6R5610	BTA-8200	Horiz. Osc. Grid
R68	4700Ω		6R6080	BTS-4700	Horiz. AFC Filter Network
R69	15KΩ		6R6477	BTS-15K	Horiz. Peaking
R70	3300Ω		6R5581	BTS-3300	Horiz. AFC Cathode

ITEM No.	RATING		MOTOC
	DC RESISTANCE		
	PRI.	SEC.	
T1	59Ω	170Ω	24B481
T2	59Ω	170Ω	24B481
T3A	270Ω		25B901
B	210Ω		

ITEM No.	RATING		
	PRI.	SEC. 1	SEC. 2
T4	870Ω Tapped at 4.5Ω	0Ω	

ITEM No.	RATING			
	IMPEDANCE		DC RES.	
	PRI.	SEC.	PRI.	SEC.
T5	2300Ω	3.5Ω	245Ω	.8Ω

ITEM No.	RATINGS	
	FIELD RES.	V. C. IMP.
SP1	PM	3.5Ω
SP2	CONE DIA.	V. C. DIA.
	5 7/8"	3/4"

ITEM No.	USE	DC RES.	
		PRI.	SEC.
L1	Ant. Input Transformer	.1Ω	
L2	RF Coils	0Ω	
L3	Mixer Grid	0Ω	
L4	High Band RF Coil	0Ω	
L5	Osc. Coil	0Ω	
L6	High Band Osc.	0Ω	
L7	RF Choke	2.2Ω	
L8	RF Choke	.8Ω	
L9	1st Video IF	0Ω	0Ω
L10	RF Choke	6Ω	
L11	2nd Video IF	.1Ω	
L12	RF Choke	6Ω	
L13	3rd Video IF	.1Ω	
L14	Peaking	10.5Ω	
L15	Peaking	13Ω	
L16	Sound IF	1Ω	
L17	Ratio Det. Transformer	2.8Ω	.2Ω
L18	Fil. Choke	1Ω	
L19	Fil. Choke	1Ω	
L20	Fil. Choke	1Ω	
L21	Fil. Choke	1Ω	
L22	Fil. Choke	1Ω	

DESCRIPTIONS

CONT.)

ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
POK-20	TM-13	AFC Filter
	TC-5	AFC Filter
	MS-42	Fixed Trimmer
		Fixed Trimmer
	TVM-216	Differentiator Net.
TVM-216	Hor. Sweep Coupling	
TVM-256	Hor. Sweep Coupling	
	HV Filter	
TM-15	HV Osc. Decoupling	
P2L-001	IFM-21	Line Filter
	IFM-21	Filament Bypass *

LS

INSTALLATION NOTES
Volume control Attach to R1A per instructions Attach to R1A per instructions Contrast control, tapped at 1000Ω, 1500Ω Focus control Horiz. centering control, tapped at 400KΩ and 1 Meg. Vert. centering control, tapped at 1 meg. Horiz. size control Vert. size control Horiz. hold control Vert. hold control Brightness control

rol. No additional shaft is required. Lock shaft to engage into slot.
to duplicate original, use original insulated

RS

IDENTIFICATION CODES

RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.

Isolation
Grid
Cathode
Decoupling
r. Grid
r. Cathode
r. Decoupling
Grid
Plate Decoupling
Video IF Grid
Video IF Cathode
Age Divider See Note
Network
Network
Video IF Coil Shunt
Video IF Cathode
Video IF Decoupling
Video IF Coil Shunt
Age Dropping
Video IF Cathode
Video IF Decoupling
Network
o Amp. Grid
Age Divider
o Amp. Plate
o Amp. Decoupling
Age Divider
d IF Cathode
d IF Decoupling
ncing
mphasis
o Det. Diode Load
o Det. Diode Load
Grid
Plate
Plate Decoupling
ut Grid
ut Cathode
tion
Clipper Grid
Clipper Plate
Clipper Grid
Clipper Plate
rator
rator
back
Osc. Grid
Osc. Plate
Age Divider
Amp. Grid
Amp. Plate
Amp. Grid
Amp. Plate
Age Divider
Age Divider
e. AFC Transformer Shunt
e. Osc. Grid
e. AFC Filter Network
e. Peaking
e. AFC Cathode

RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	MOTOROLA PART No.	IRC PART No.	
R71	150KΩ	1/2	6R6398	BTS-150K	HV Osc. Grid
R72	100Ω	1	6R6415	BW-1-100	HV Osc. Cathode
R73	100Ω	1	6R6415	BW-1-100	HV Osc. Decoupling
R74	33Ω 5%	1	6R2036		Parasitic Supp.
R75	100KΩ	1	6R6031		HV Filter
R76	4.7 Meg.	1	6R6446		Horiz. Deflection Load
R77	4.7 Meg.	1	6R6446		Horiz. Deflection Load
R78	4.7 Meg.	1	6R6446		Vert. Deflection Load
R79	4.7 Meg.	1	6R6446		Vert. Deflection Load
R80	2.7 Meg.	1	6R488057		Voltage Divider
R81	2.7 Meg.	1	6R488057		Voltage Divider
R82	2.2 Meg.	1	6R2011		Voltage Divider
R83	2.2 Meg.	1	6R2011		Voltage Divider
R84	470KΩ	1/2	6R6377	BTS-470K	Isolation

Note. Not used in all models.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		MOTOROLA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.					
T1	59Ω	170Ω	24B480209				Hor. AFC Transformer Hor. Block Osc. Trans. Hor. Sweep Output
T2	59Ω	170Ω	24B480209				
T3A	270Ω		25B90138				
B	210Ω						

TRANSFORMER (H.V. OSC.)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	MOTOROLA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T4	870Ω Tapped at 4.5Ω	0Ω			1X471212			

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		MOTOROLA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T5	2300Ω	3.5Ω	245Ω	.8Ω	25K470392	A-3878	A-2928	RO-2	

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	MOTOROLA PART No.	JENSEN PART No.	QUAM PART No.	
SP1	PM	3.5Ω	50B471322	ST-110 MOD. P6-V	6A15	
SP2	5 7/8"	3/4"				

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	MOTOROLA PART No.	MEISSNER PART No.	
L1	Ant. Input Transformer	.1Ω		24A790033		Part of channel selector switch Part of channel selector switch
L2	RF Coils	0Ω				
L3	Mixer Grid	0Ω				Straight, bare wire Part of channel selector switch
L4	High Band RF Coil	0Ω		24K790605		
L5	Osc. Coil	0Ω				2 microhenries 1 microhenry Less tuning cores
L6	High Band Osc.	0Ω		24K790604		
L7	RF Choke	2.2Ω		24K780128		5.6 microhenries Less tuning core
L8	RF Choke	.8Ω		24K780127		
L9	1st Video IF	0Ω	0Ω	24B90192		5.6 microhenries Less tuning core
L10	RF Choke	6Ω		24K790035		
L11	2nd Video IF	.1Ω		24A790176		Less tuning core 5.6 microhenries Less tuning core
L12	RF Choke	6Ω		24K790035		
L13	3rd Video IF	.1Ω		24A790176		Wound on 18KΩ resistor, Green identification dot. Black identification dot. Less tuning core
L14	Peaking	10.5Ω		24A780602		
L15	Peaking	13Ω		24A780601		Complete with cores and capacitors. Less shield 1 microhenry 1 microhenry 1 microhenry 1 microhenry 1 microhenry
L16	Sound IF	1Ω		24A470159		
L17	Ratio Det. Transformer	2.8Ω	.2Ω	24B790125		
L18	Fil. Choke	1Ω		24A780127		
L19	Fil. Choke	1Ω		24A780127		
L20	Fil. Choke	1Ω		24A780127		
L21	Fil. Choke	1Ω		24A780127		
L22	Fil. Choke	1Ω		24A780127		

MOTOROLA MODELS 7VT1, 7VT2, 7VT5, 9VT1, 9VT5, (Ch. TS-18)

PARTS LIST AND DESCRIPTIONS (Continued)

SELENIUM RECTIFIER

ITEM No.	RATING	REPLACEMENT DATA			NOTES
	CURRENT	MOTOROLA PART No.	SYLVANIA PART No.		
M1	.104A	48B470395	ND-5		
M2	.104A	48B470395	ND-5		

MISCELLANEOUS

ITEM No.	PART NAME	MOTOROLA PART No.	NOTES
M3	Switch		Channel selector. Includes fine tuning trimmer and coils assy
M4A	4th Video IF Coil	24A790175	Less tuning core
B	RF Choke	24B790129	
C	RF Choke	24B790130	
D	Video Coupling	21K478234	8MMF, 500V
E	RF Bypass	21K478410	1000MMF, 500V
F	Video Det. Filter	21K470323	15MMF, 500V Video Detector Panel
G	Video Det. Load	6R2004	8.2KΩ
H	Video Det. Load	6R6022	330Ω
I	Video Detector	48A90173	IN34
M5	Ballast Tube	17A485459	
	Tuning Core	46A478242	Brass L11, L13, M4A
	Tuning Core	46A470310	Iron and Screw, L16, L9 Primary
	Tuning Core	46K480256	Iron and Screw, L9 Secondary
	Tuning Core	46A70023	Iron and Screw, L17 Primary
	Tuning Core	46A470302	Iron and Screw, L17 Secondary
	Terminal Strip	31A90167	Antenna
	Back Cover	1X790502	Includes line cord assy. Model 7VT1
	Back Cover	1X790581	Includes line cord assy. Model 7VT2
	Back Cover	1X790494	Includes line cord assy. Model 7VT5
	Cabinet	16F790428	Table model. Brown mahogany. Model 7VT1
	Cabinet	16K790429	Table model. Red mahogany. Model 7VT1R
	Cabinet	16K791108	Table model. Black, molded bakelite. Model 7VT2
	Cabinet	16E790106	Table Model. Walnut, molded bakelite. Model 7VT2W
	Cabinet	16K790632	Portable, red leatherette, Model 7VT5R
	Cabinet	16F790194	Portable, blonde leatherette, Model 7VT5B
	Escutcheon	13K791409	Includes grill, plastic, Model 7VT1
	Escutcheon	13D790192	Includes grill, plastic, Model 7VT5
	Handle	36K791475	Cabinet, plastic, rust color. Model 7VT5R
	Handle	36K790199	Cabinet, leather, tan color. Model 7VT5B
	Handle Loop	36K790198	Cabinet cover, brass, Model 7VT5
	Hinge	55K790401	Cabinet cover, complete, brass. Model 7VT5
	Knob	36K791438	Channel selector
	Knob	36K791441	Volume, contrast
	Knob	36K791436	Fine tuning
	Knob	36B790437	Channel selector
	Knob	36K790427	Volume, contrast
	Knob	36K790426	Fine tuning
	Knob	36K791439	Channel Selector
	Knob	36K791442	Volume, contrast
	Knob	36K791437	Fine tuning,
	Safety Glass	61C790434	Picture Tube window, plastic, Model 7VT2