

AMBASSADOR MODELS 14MC, MT, 16MC, MT, MXC, MXCS, MXT, MXTS, 17MC, MT, MXC, MXCS, MXT, MXTS

TRADE NAME	Ambassador models 14MC, MT, 16MC, MT, MXC, MXCS, MXT, MXTS, 17MC, MT, MXC, MXCS, MXT, MXTS		
SUPPLIER	Allied Pur. Corp., 401 5th Ave., New York 16, N. Y.		
TYPE SET	Television Receiver		
TUBES	Twenty or Twenty One		
POWER SUPPLY	110-120 Volts AC-60 Cycle	RATING	1.65 Amp. at 117 Volts AC
TUNING RANGE	Channels 2 thru 13		
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HOWARD W. SAMs & CO., INC. • Indianapolis 1, Indiana

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PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
			AMBASSADOR	JENSEN	QUAM	
	FIELD RES.	V. C. IMP.	PART No.	PART No.	PART No.	
SP1	PM	3.8Ω			12A4A	
SP2	CONE DIA.	V. C. DIA.				
	11 1/2"	1"				

FILTER CHOKE

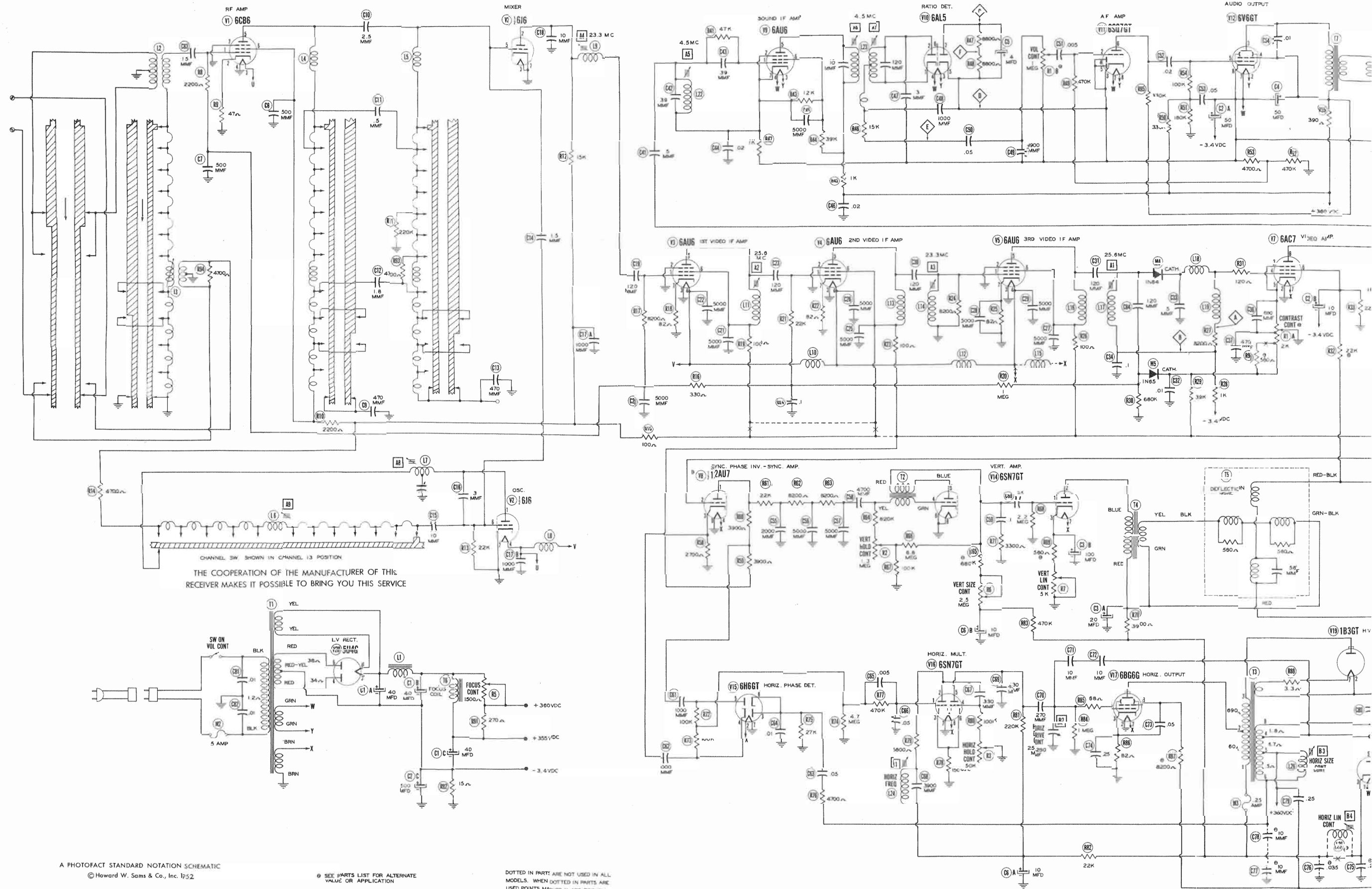
ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (10 CURRENT 1000 μ)	AMBASSADOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.190ADC	27Ω	1.5 Henries		C-2325 ①	C-2974	TR-420X1	① Drill one new mounting hole.

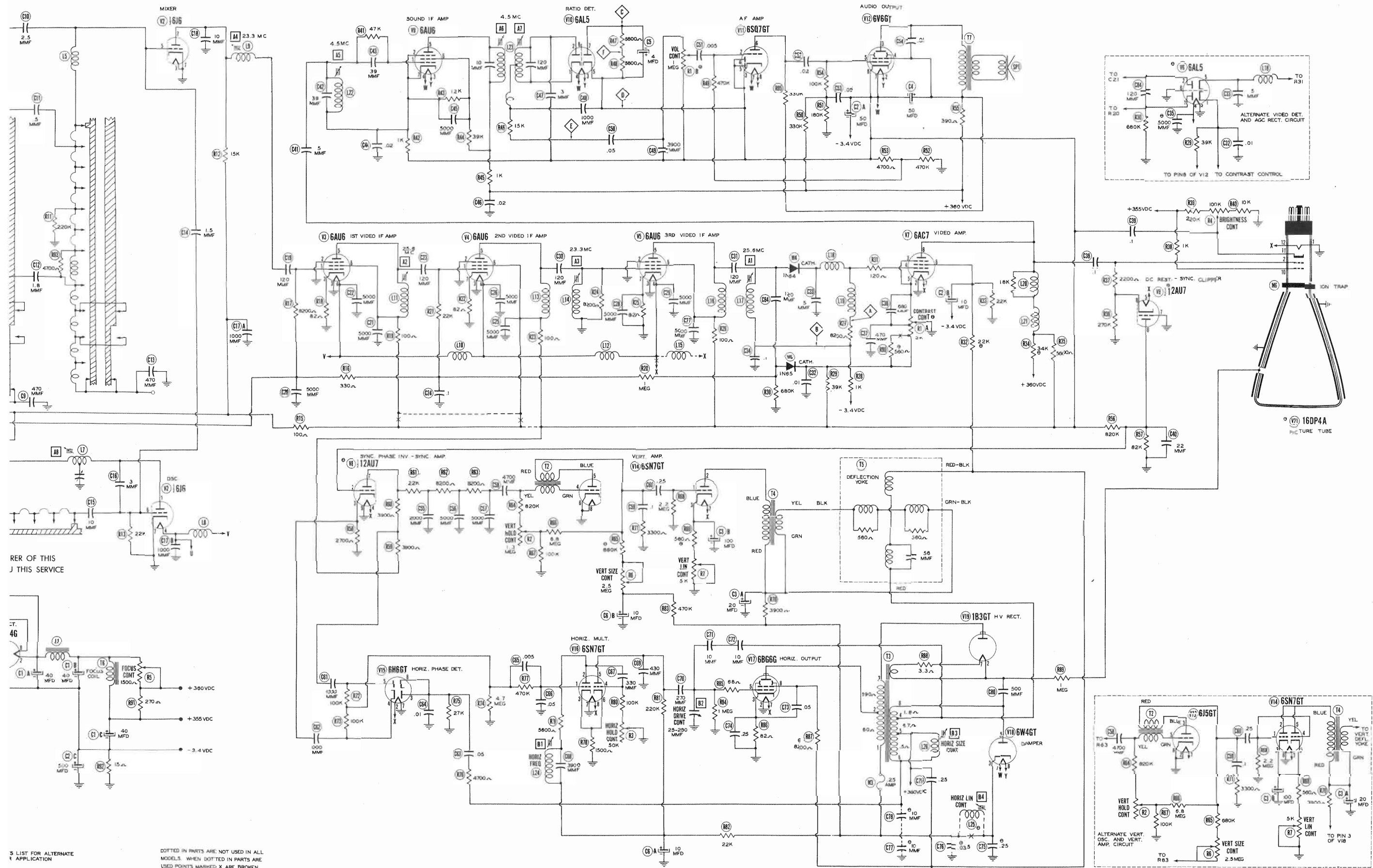
COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
				AMBASSADOR	MERIT	IRC	
		PRI.	SEC.	PART No.	PART No.	PART No.	
L2	Ant. Coil	0Ω	0Ω				
L3	Ant. Coil	0Ω	0Ω				
L4	RF Coil	0Ω					
L5	Mixer Grid Coil	0Ω					
L6	Osc. Coil	0Ω					
L7	Osc. Coil	0Ω					
L8	Fil. Choke	.2Ω				CLA-4.7	Channel 6 Channel 13 4.7 microhenries
L9	1st Video IF	.5Ω					
L10	Fil. Choke	0Ω					
L11	2nd Video IF	.1Ω					
L12	Fil. Choke	0Ω					
L13	RF Choke	4Ω					
L14	3rd Video IF	.1Ω					
L15	Fil. Choke	4Ω					Not used in all models.
L16	RF Choke	.1Ω					
L17	4th Video IF	7.8Ω					
L18	Peaking	20Ω					120 microhenries 600 microhenries 150 microhenries, wound on 18KΩ resistor.
L19	Peaking	9.2Ω					300 microhenries
L20	Peaking	13Ω					
L21	Sound IF	1.9Ω					
L22	Ratio Det.	4.2Ω	.2Ω				
L23	Trans.	90Ω					
L24	Horiz. Freq.	.3Ω					Not used in all models.
L25	Horiz. Lin.						
L26	Horiz. Size						

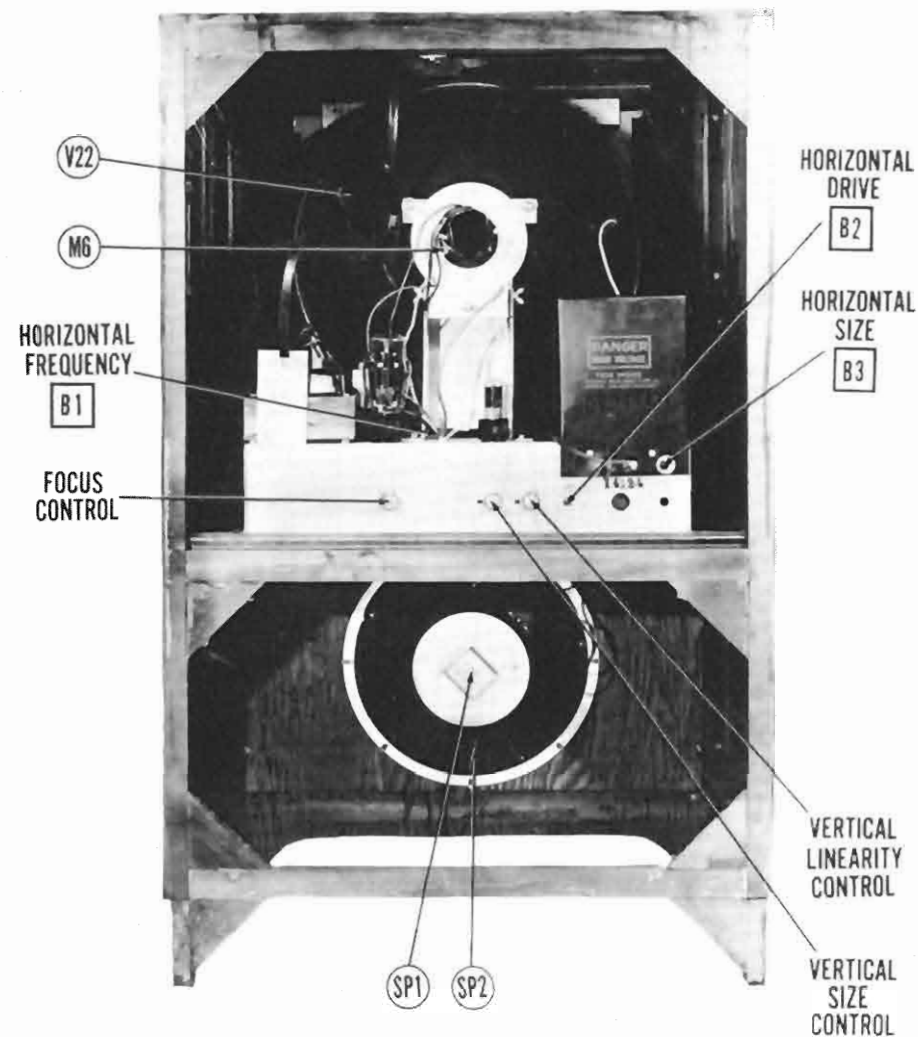
MISCELLANEOUS

ITEM No.	PART NAME	AMBASSADOR PART No.	NOTES
M1	RF Tuner		
M2	Fuse		5A 250V Type 3AG
M3	Fuse		.25A 250V Type 3AG
M4	Crystal		Video Det. 1N-64
M5	Crystal		AGC Rectifier 1N-65
M6	Ion Trap		
B2	Trimmer		Horiz. drive 25-280MMF





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MXT, MXTS, 17MC, MT, MXC, MXCS, MXT, MXTS



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

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

Turn the horizontal hold control to the mid-position of its range.

Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

Adjust the horizontal drive trimmer (B2) clockwise as far as possible without crowding the right side of the picture.

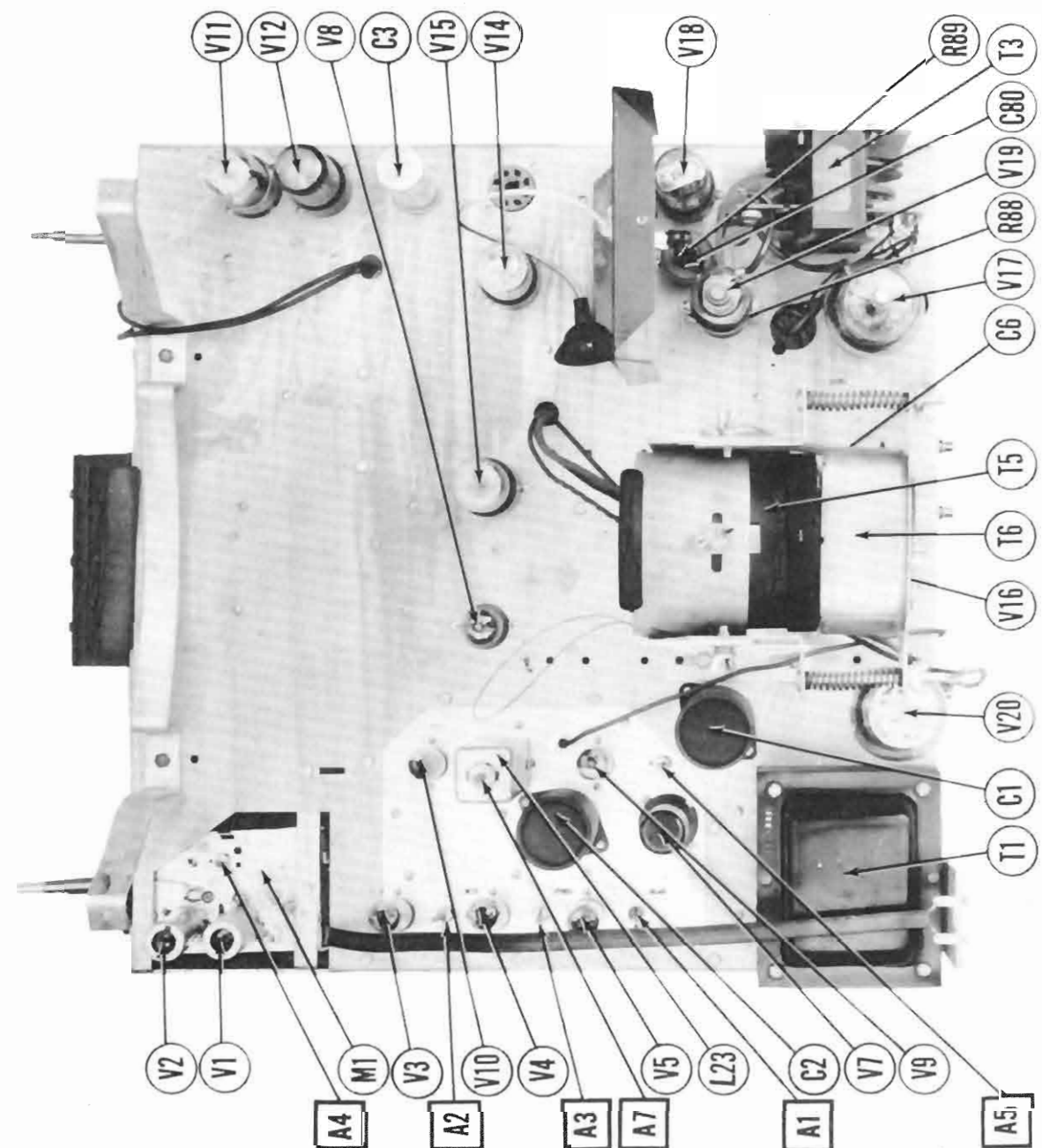
Adjust the horizontal size slug (B3) until the picture fills the mask horizontally.

Adjust the horizontal linearity slug (B4) until the picture is symmetrical from left to right.

Readjustment of B2 may be necessary for optimum results.

DISASSEMBLY INSTRUCTIONS

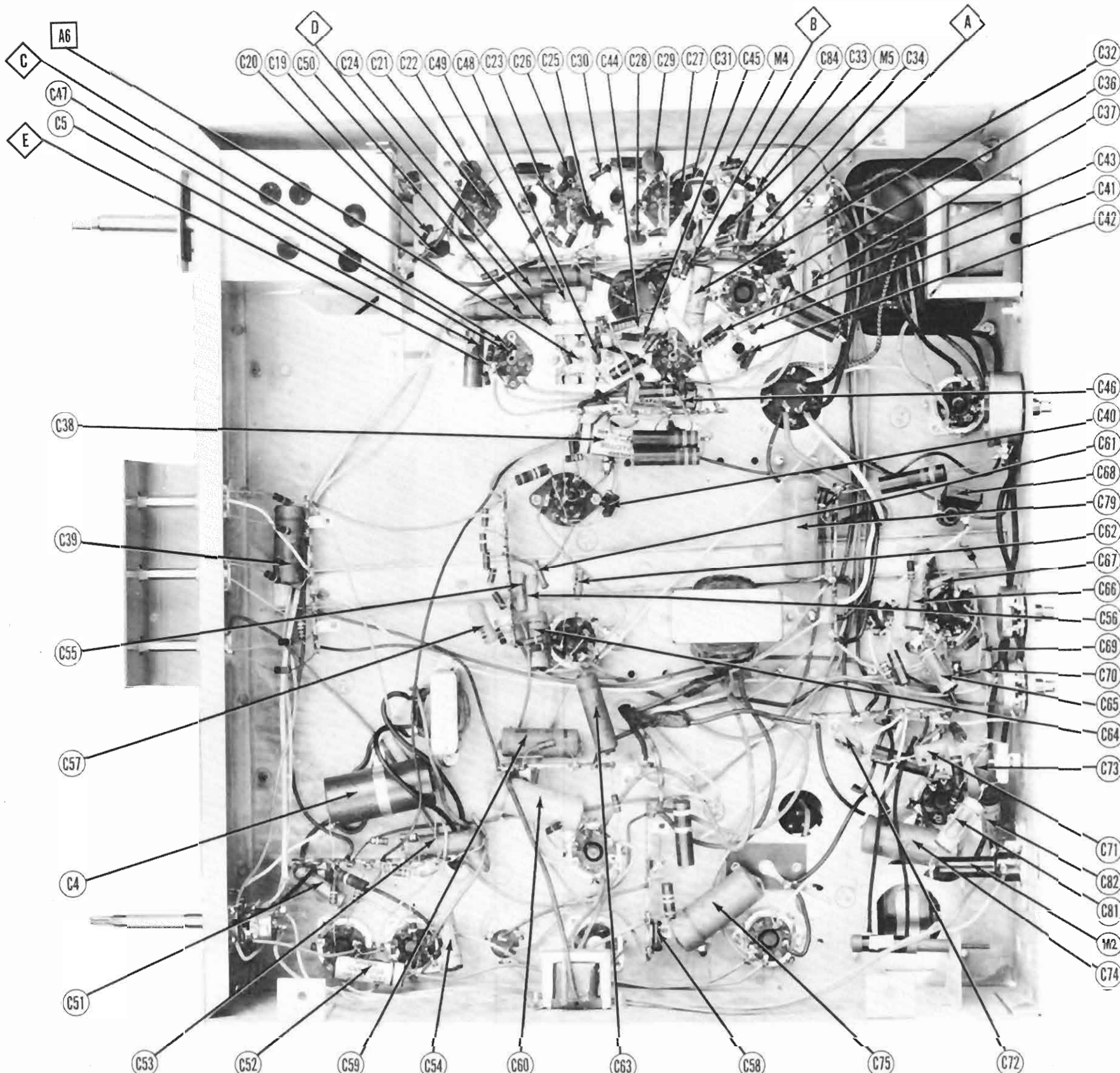
1. Remove four push-on type control knobs.
 2. Remove six wood screws holding rear cover in place. Remove rear cover.
 3. Disconnect built-in antenna.
 4. Disconnect speaker leads.
 5. Remove one 5/16" hex nut holding brace from top of picture tube to top of cabinet.
 6. Remove four 5/16" hex head bolts holding chassis in cabinet. Remove chassis.
 7. Remove two 5/16" hex nuts holding speaker. Remove speaker.
- FOR PICTURE TUBE REMOVAL IT IS NECESSARY TO REMOVE CHASSIS AS OUTLINED ABOVE.



MAIN POINT CHASSIS VIEW

AMBASSADOR MODELS 14MC, MT, 16MC, MT, MXC, MXCS, MXI, MXIS, 17MC, MT, MXC, MXCS, MXI, MXIS

MX1, MX1S, 17MC, MT, MXC, MXCS, MXT, MXTS



CHASSIS BOTTOM VIEW-CAPACITOR 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	6CB6	-2VDC	-6VDC	6.3VAC	0V.	90VDC	90VDC	0V.			V 1	6CB6	1.7 Meg.	47Ω	.1Ω	0Ω	#2.4KΩ	0Ω			
V 2	6J6	105VDC	85VDC	0V.	6.3VAC	-1.2VDC	8-4.7VDC	0V.			V 2	6J6	#4.9KΩ	#15KΩ	0Ω	.2Ω	220KΩ	22KΩ	0Ω		
V 3	6AU6	-2VDC	0V.	0V.	6.3VAC	120VDC	120VDC	1VDC			V 3	6AU6	1.7 Meg.	0Ω	0Ω	.1Ω	#200Ω	#200Ω	82Ω		
V 4	6AU6	-2VDC	0V.	0V.	6.3VAC	120VDC	120VDC	1VDC			V 4	6AU6	1.7 Meg.	0Ω	0Ω	.1Ω	#100Ω	#100Ω	82Ω		
V 5	6AU6	0V.	0V.	0V.	6.3VAC	125VDC	125VDC	1VDC			V 5	6AU6	.1Ω	0Ω	0Ω	.1Ω	#100Ω	#100Ω	82Ω		
V 6	6AL5	Not used in all models.									V 6	6AL5	Not used in all models.								
V 7	6AC7	0V.	0V.	1.3VDC	3.2VDC	1.3VDC	170VDC	6.3VAC	180VDC		V 7	6AC7	Inf.	0Ω	1000Ω	2.5KΩ	1000Ω	117KΩ	.1Ω	117KΩ	
V 8	12AU7	85VDC	9.6VDC	14VDC	6.3VAC	9.6VDC	9.6VDC	0V.	1.4VDC	0V.	V 8	12AU7	#7.8KΩ	82KΩ	2.7KΩ	.1Ω	82KΩ	0Ω		270KΩ	0Ω
V 9	6AU6	#5.7VDC	#8.5VDC	#6.3VAC	#0V.	#210VDC	#55VDC	#8.5VDC			V 9	6AU6	#49KΩ	#1000Ω	4.1Ω	0Ω	11.1KΩ	120KΩ	#1000Ω		
V 10	6AL5	-6VDC	-6.3VDC	#6.3VAC	#0V.	#0V.	0V.	#-1.1VDC			V 10	6AL5	Inf.	Inf.	#.1Ω	0Ω	0Ω	Inf.	#14KΩ		
V 11	6SQ7GT	0V.	#-1.2VDC	#0V.	#0V.	#10VDC	#0V.	#6.3VAC			V 11	6SQ7GT	Inf.	#475KΩ	0Ω	0Ω	0Ω	1330KΩ	0Ω	#.1Ω	
V 12	6V6GT	0V.	#6.3VAC	#185VDC	#200VDC	#-7.5VDC	0V.	#0V.			V 12	6V6GT	Inf.	#.1Ω	1920Ω	1490Ω	230KΩ	Inf.	0Ω	0Ω	
V 13	6J5GT	Not used in all models.									V 13	6J5GT	Not used in all models.								
V 14	6SN7GT	0V.	380VDC	9VDC	23VDC	180VDC	85VDC	0V.	6.3VAC	0V.	V 14	6SN7GT	2.2 Meg.	#4.7KΩ	5.5KΩ	2.2 Meg.	#1 Meg.	#2.5 Meg.	.1Ω	0Ω	
V 15	6H6GT	0V.	6.3VAC	0V.	2VDC	-2VDC	2VDC	0V.	0V.		V 15	6H6GT	Inf.	.1Ω	27KΩ	4.8 Meg.	4.8 Meg.	4.8 Meg.	0Ω	27KΩ	
V 16	6SN7GT	-3VDC	220VDC	10VDC	-7.8VDC	125VDC	10VDC	0V.	6.3VAC	TOP CAP	V 16	6SN7GT	5.2 Meg.	#27KΩ	1.5KΩ	150KΩ	#240KΩ	1.5KΩ	0Ω	.1Ω	TOP CAP
V 17	6BG6G	0V.	0V.	11VDC	0V.	-2.2VDC	0V.	6.3VAC	275VDC		V 17	6BG6G	Inf.	0Ω	82Ω	Inf.	1 Meg.	Inf.	.1Ω	18.3KΩ	TOP CAP
V 18	6W4GT	0V.	0V.	410VDC	0V.	350VDC	0V.	#0V.	#6.3VAC		V 18	6W4GT	Inf.	Inf.	100KΩ	Inf.	1600Ω	Inf.	#0Ω	#.1Ω	TOP CAP
V 19	1B3GT	* DO NOT MEASURE.									V 19	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP
V 20	5U4G	0V.	390VDC	0V.	360VAC	0V.	360VAC	0V.	390VDC		V 20	5U4G	Inf.	20KΩ	Inf.	40Ω	Inf.	40Ω	Inf.	20KΩ	
V 21	1BDP4A	0V.	1.4VDC	350VDC	115VDC	6.3VAC					V 21	1BDP4A	0Ω	270KΩ	11.2KΩ	90KΩ	.1Ω				

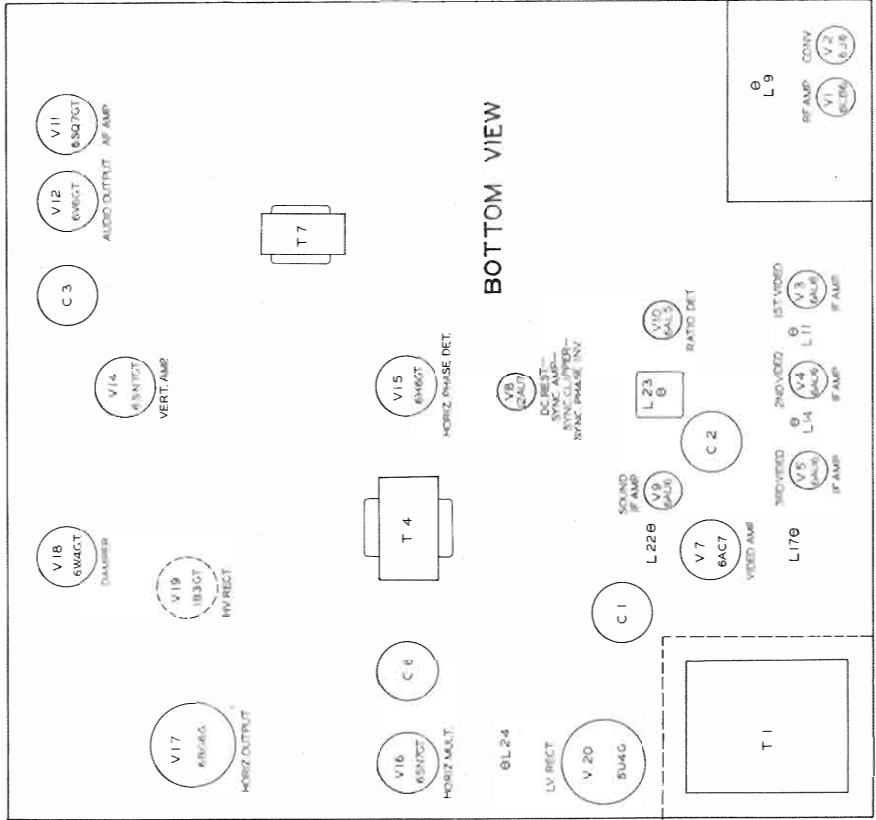
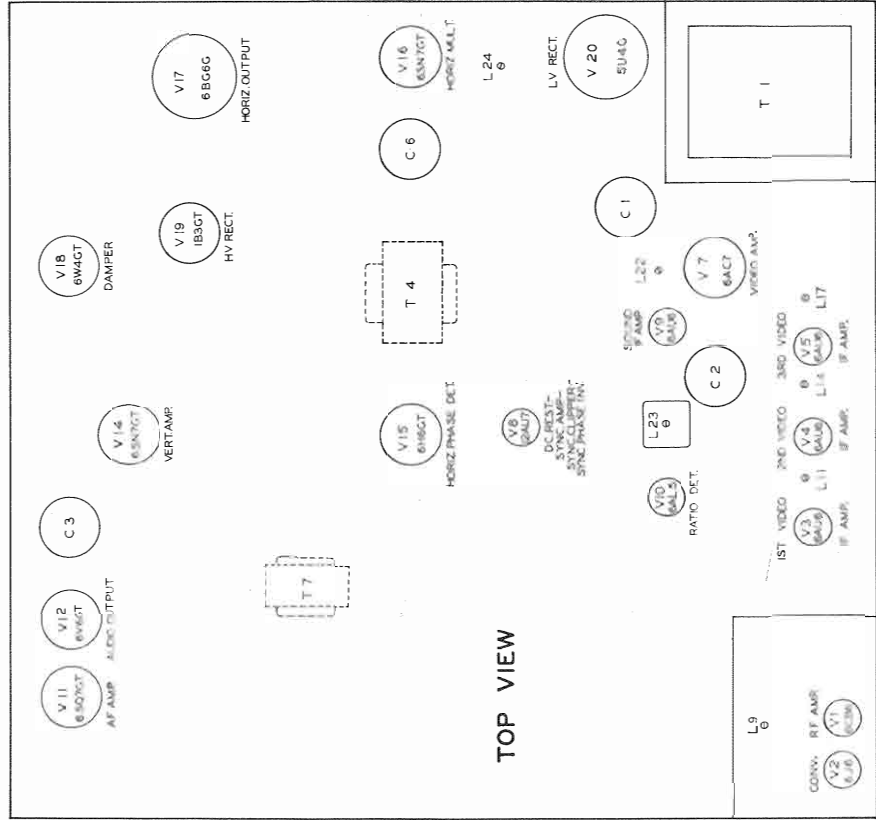
FOCUS CONTROL SET FULLY COUNTER-CLOCKWISE.
* MEASURED FROM PIN 8 OF V12.
† TAKEN WITH VACUUM TUBE VOLTMETER.
MEASURED FROM PIN 2 OF V20.
* DO NOT MEASURE.

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 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.

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TUBE PLACEMENT CHART



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT
The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube (V16) from its socket.

VIDEO IF ALIGNMENT

During video IF alignment the common lead of the VTVM is connected to approximately 2.5 volts negative with respect to chassis. Avoid grounding the VTVM case.
Remove the converter tube (V2) from its socket and replace it with a 6J6 which has pin 1 removed, to prevent erroneous indications from the local oscillator.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	25.6MC (Unmod.)	Any	DC Probe to Point A Common to Point B	A1, A2	Adjust for maximum deflection.
2. Direct	"	23.3MC	"	"	A3, A4	"

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
3. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	25MC (10MC SWP)	21.65MC 23.3MC 25.6MC 26.1MC	Any	Vert. Amp. to Point A Low side to chassis.		Check for response curve similar to figure 1 with markers as shown. If necessary retouch A1 thru A4 for optimum response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

During sound IF alignment the common lead of the VTVM is connected to approximately 130 volts negative with respect to chassis. Avoid touching or grounding the VTVM case.
Turn the contrast control to maximum clockwise.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. .01MFD	High side to pin 4 (Grid) of 6AC7 (V7). Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point C Common to Point D	A5, A6	Adjust for maximum deflection.
5. .01MFD	"	"	"	DC Probe to Point E Common to Point F	A7	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 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
4. .01MFD	High side to pin 4 (Grid) of 6AC7 (V7). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any	Vert. Amp. to Point C Low side to chassis.	A5, A6	Disconnect stabilizer capacitor C5. Adjust for maximum amplitude and symmetry as per figure 2.
5. .01MFD	"	"	"	"	Vert. Amp. to Point D Low side to chassis.	A7	Reconnect capacitor C5. Adjust A7 so 4.5MC occurs at center of crossover lines as per figure 3. SLIGHTLY retouch A6 for maximum amplitude and straightness of crossover lines.

OSCILLATOR ALIGNMENT

Remove the dummy converter tube and replace the original 6J6 in its socket.
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
6. Two 1500 carbon res.	Across antenna terminals with 1500 in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. to Point A Low side to chassis.	A8	Adjust to place the sound marker as shown in figure 4. The video marker should be at 50%.
7. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	"	A9	"
8. "	"	207MC (10MC SWP) 201MC (10MC SWP) 195MC (10MC SWP) 189MC (10MC SWP) 183MC (10MC SWP) 177MC (10MC SWP)	205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC	12 11 10 9 8 7	"		Check all high band channels to see that the sound marker can be properly placed well within the range of the fine tuning control. If not, a compromise adjustment of A8 may be required. If A8 is changed, recheck all high band channels.
9. "	"	79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	77.25MC 81.75MC 87.75MC 97.75MC 67.25MC 71.75MC 75.25MC 59.75MC	5 4 3 2	"		Check all low band channels to see that the sound marker can be properly placed well within the range of the fine tuning control. If not, a compromise adjustment of A9 may be required. If A9 is changed recheck all low band channels.

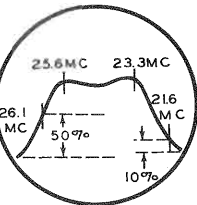


FIG. 1

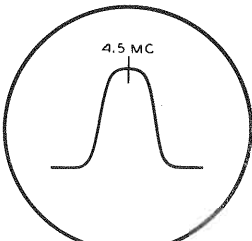


FIG. 2

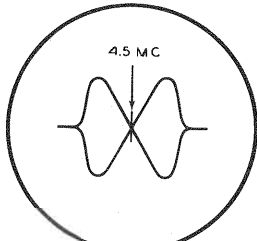


FIG. 3

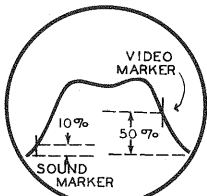
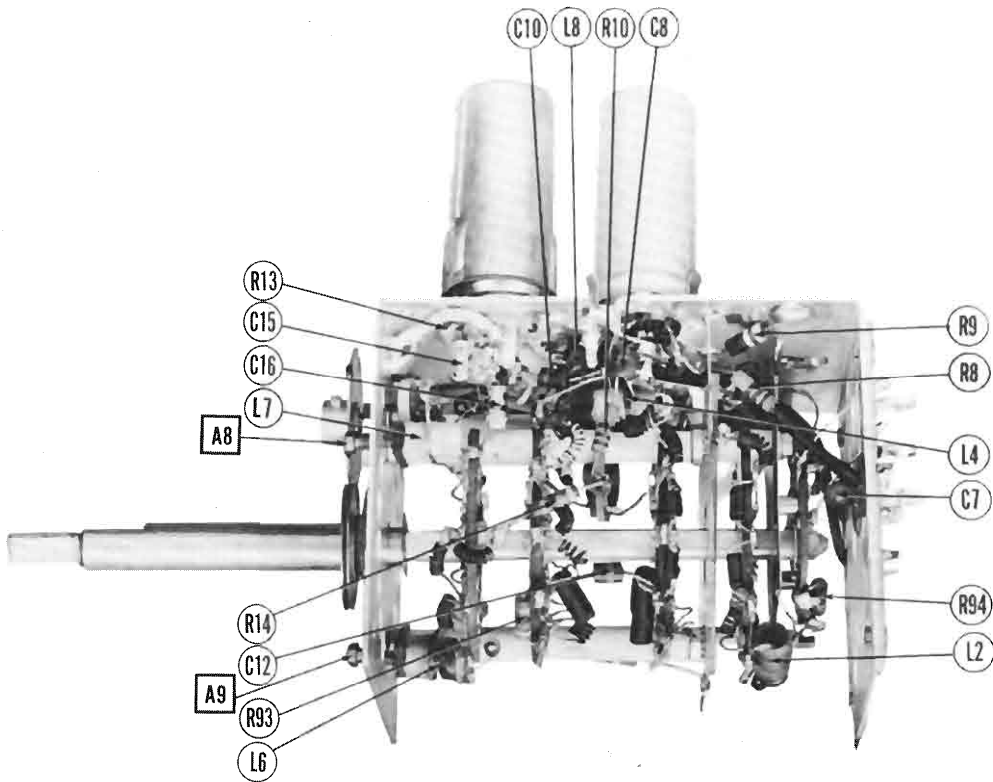
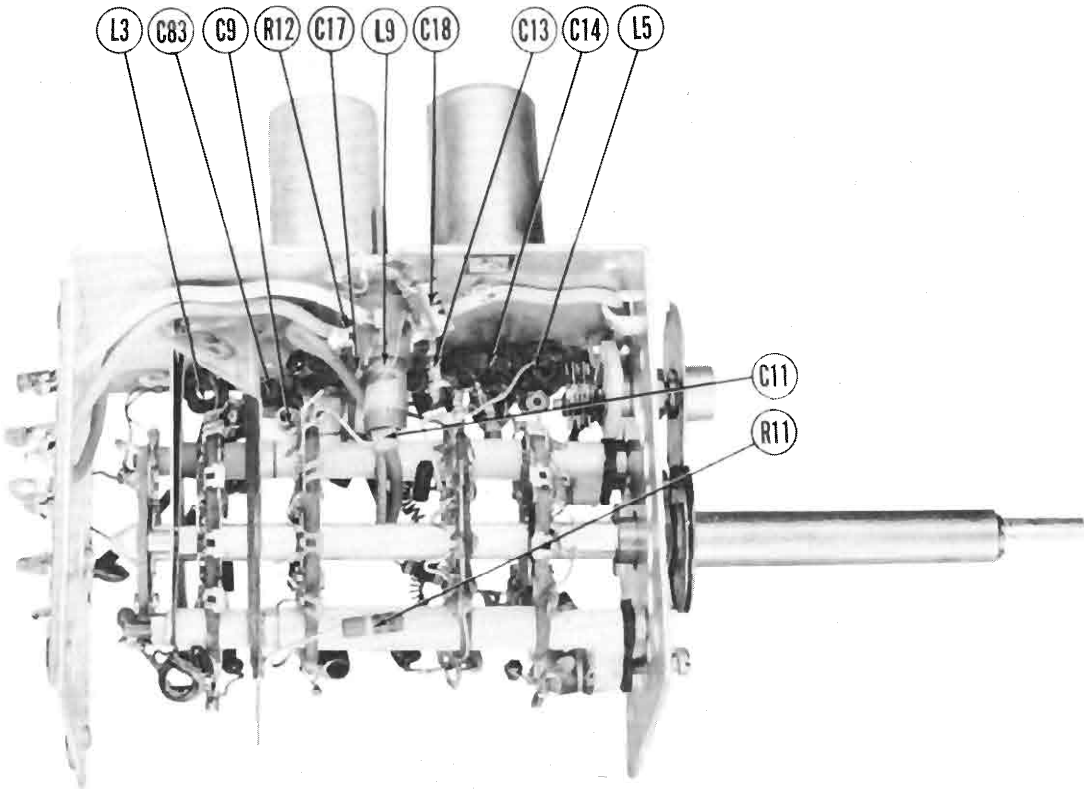


FIG. 4

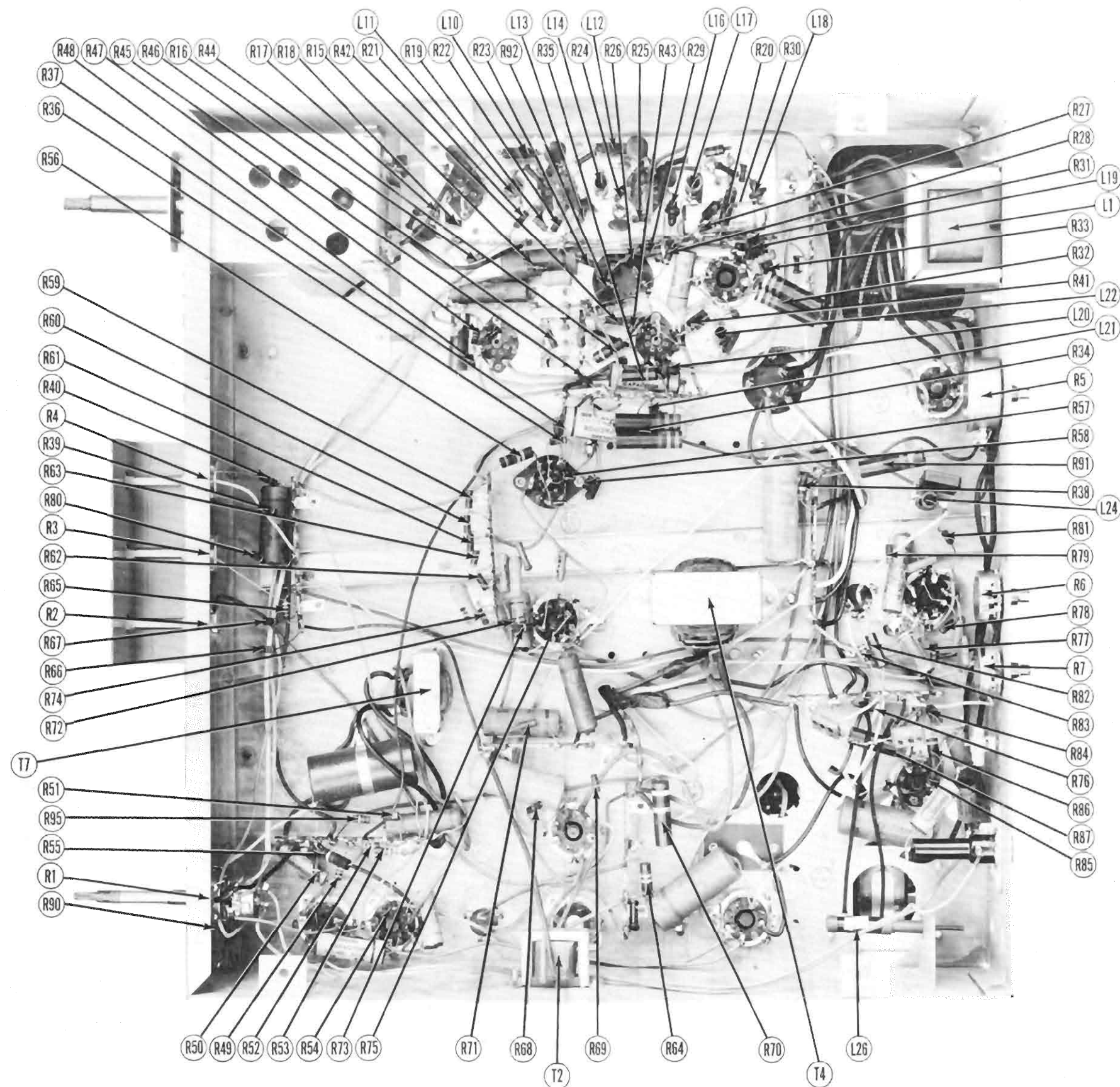


RF TUNER-RIGHT SIDE



RF TUNER-LEFT SIDE

AMBASSADOR MODELS 14MC, MT, 16MC, MT, MXC, MXCS, MXT, MXTS, 17MC, MT, MXC, MXCS, MXT, MXTS



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		AMBASSADOR PART No.	STANDARD REPLACEMENT		
V1	RF Amplifier	6CB6	6CB6	6CK	Crystal Detectors are used in place of V6 in some models.
V2	Converter	6J6	6J6	7BF	
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 Det. -AGC Rectifier	6AL5	6AL6	8BT	
V7	Video Amplifier	6AC7	6AC7	8N	Separate Vert. Osc. Tube Used in models with rectangular picture tube.
V8	DC Rest. - Sync. Clipper - Sync. Amp. -Phase Inverter	12AU7	12AU7	9A	
V9	Sound IF Amplifier	6AU6	6AU6	7BK	
V10	Ratio Detector	6AL5	6AL5	8BT	
V11	AF Amplifier	6SQ7	6SQ7	8Q	
V12	Audio Output	6V6GT	6V6GT	7AC	
V13	Vert. Oscillator	6J5	6J5	6Q	In models employing V13, elements of V14 are paralleled.
V14	Vert. Amp. and/or Vert. Osc.	6SN7GT	6SN7GT	8BD	
V15	Horiz. Phase Det.	6H6	6H6	7Q	
V16	Horiz. Multivibrator	6SN7GT	6SN7GT	8BD	
V17	Horiz. Output	6BG6G	6BG6G	5BT	
V18	Damper	6W4GT	6W4GT	4CG	
V19	High Volt. Rectifier	1B3GT	1B3GT	3C	Alternate
V20	Low Volt. Rectifier	5U4G	5U4G	5T	
V21	Picture Tube	16DP4A	16DP4A	12D	
V22	Picture Tube	16TP4	16TP4	12D	
V23	Picture Tube	14CP4	14CP4	12D	Alternate
V24	Picture Tube	17BP4	17BP4	12D	Alternate

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					IDENTIFICATION CODES AND INSTALLATION NOTES
		AMBASSADOR PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C1A	40		AF888J		UPT44445		TVL-3787
B	40						TVL-1613
C	40						TVL-2735
C2A	50		PRS450/40		BR5035		TVL-1714
B	50		AF822H		UPT302		TVL-1207
C	500		PRS56/500				TVL-1303
C3A	20		AF42		UPT150		TVL-2750
B	100		PRS25/100		V10		TVL-2750
C4	50		PRS150/4		BBRT4-50T		TVL-2750
C5	4				UPT145		TVL-2750
C6A	10		AF22J				TVL-2750
B	10						TVL-2750
C7	500		SI500	DD-801	811-001	19C32	TVL-2750
C8	500		SI500	DD-801	811-001	19C32	TVL-2750
C9	470		SI470	DD-471	GP2K-470	19C15	TVL-2750
C10	2.5			TCZ-2.2			TVL-2750
C11	.5			TCZ-.5			TVL-2750
C12	1.8						TVL-2750
C13	470		SI470	DD-471	GP2K-470	19C15	TVL-2750
C14	1.5		SI1.5NPO	TCZ-1.5			TVL-2750
C15	10		SI10NPO	TCZ-10			TVL-2750
C16	3						TVL-2750
C17A	1000		BPD-2x001	DD-2-102	882-2x0015	29C7	TVL-2750
B	1000						TVL-2750
C18	10		SI10NPO	TCZ-10			TVL-2750
C19	120		SI120	DD-121	5W5T15	19C29	TVL-2750
C20	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C21	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C22	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C23	120		SI120	DD-121	5W5T15	19C29	TVL-2750
C24	.1		P688-1	DF-104	PTE6P1	6TM-P1	TVL-2750
C25	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C26	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C27	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C28	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C29	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C30	120		SI120	DD-121	5W5T15	19C29	TVL-2750
C31	120		SI120	DD-121	5W5T15	19C29	TVL-2750
C32	.01		P688-01	D6-103	PTE6S1	6TM-S1	TVL-2750
C33	.5		SI5	TCZ-4.7	5W5V5	GP1K-5	TVL-2750
C34	.1		P688-1	DF-104	PTE6P1	6TM-P1	TVL-2750
C35	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C36	680		SI680	D6-681	1W5T7	GP2K-470	TVL-2750
C37	470		SI470	D6-471	5W5T5	GP2K-470	TVL-2750
C38	.1		P688-1	DF-104	PTE6P1	6TM-P1	TVL-2750
C39	.1		P688-1	DF-104	PTE6P1	6TM-P1	TVL-2750
C40	22		SI22	D6-220	5W5Q25	GP1K-5	TVL-2750
C41	.5		SI5	TCZ-4.7	5W5V5	GP1K-5	TVL-2750
C42	39		1469-00004	TCZ-39	5R5Q4	NPOL-39	TVL-2750
C43	39		1469-00004	TCZ-39	5R5Q4	NPOL-39	TVL-2750
C44	.02		P688-02	DF-203	PTE6S2	6TM-S2	TVL-2750
C45	5000		BPD-005	DD-502	1D5D5	29C1	TVL-2750
C46	.02		P688-02	DF-203	PTE6S2	6TM-S2	TVL-2750
C47	3		SI3NPO				TVL-2750
C48	1000		SI1000	D6-102	1W5D1	19C1	TVL-2750
C49	3900		SI4000	D6-402	1D5D4	6TM-D4	TVL-2750
C50	.05		P688-05	DF-503	PTE6S5	6TM-S5	TVL-2750
C51	.005		P688-005	D6-502	PTE6D5	6TM-D5	TVL-2750
C52	.02		P688-02	DF-203	PTE6S2	6TM-S2	TVL-2750
C53	.05		P688-05	DF-503	PTE6S5	6TM-S5	TVL-2750
C54	.01		P688-01	D6-103	PTE6S1	6TM-S1	TVL-2750
C55	2000		SI2000	D6-202	1W5D2	6TM-D2	TVL-2750
C56	5000		SI5000	D6-502	1D5D5	6TM-D5	TVL-2750

CAPACITORS (CONT.)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
		AMBASSADOR PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C57	5000		SI5000	D6-502	1D5D5	6TM-D5	TVL-2750
C58	4700		SI4700	D6-472	1D5D5	6TM-D5	TVL-2750
C59	.1		P688-1	DF-503	PTE6S5	6TM-S5	TVL-2750
C60	.25		584-25	D6-102	1W5D1	GP2L-001	TVL-2750
C61	1000		SI1000	D6-102	1W5D1	GP2L-001	TVL-2750
C62	1000		SI1000	D6-102	1W5D1	GP2L-001	TVL-2750
C63	.05		P688-05	DF-503	PTE6S5	6TM-S5	TVL-2750
C64	.01		P688-01	D6-103	PTE6S1	6TM-S1	TVL-2750
C65	.005		P688-005	D6-502	PTE6D5	6TM-D5	TVL-2750
C66	.05		P688-05	DF-503	PTE6S5	6TM-S5	TVL-2750
C67	330		1468-00035	D6-331	5W5T3	GP2K-330	TVL-2750
C68	3900		1464-004		1DR5D4	MS-24	TVL-2750
C69	430		1468-00025	D6-271	5W5T25	GP2K-270	TVL-2750
C70	270		1469-HV-00001				TVL-2750
C71	10		1469-HV-00001				TVL-2750
C72	10		1469-HV-00001				TVL-2750
C73	.05		P688-05	DF-503	PTE6S5	6TM-S5	TVL-2750
C74	.25		584-25	D6-102	1W5D1	GP2L-001	TVL-2750
C75	.25		584-25	D6-102	1W5D1	GP2L-001	TVL-2750
C76	.035		P688-033				TVL-2750
C77	10						TVL-2750
C78	10						TVL-2750
C79	.25		584-25	D6-102	1W5D1	GP2L-001	TVL-2750
C80	500		RV20C	D6-103	PTE6S1	6TM-S1	TVL-2750
C81	.01		P688-01	D6-103	PTE6S1	6TM-S1	TVL-2750
C82	.01		P688-01	D6-103	PTE6S1	6TM-S1	TVL-2750
C83	15		SI15	D6-150	1W5D15	GP2K-150	TVL-2750
C84	120		SI120	D6-121	5W5T15	GP2K-120	TVL-2750

* Used only in models using 6AL5 as V. Det. and AGC.

† Some models use .05MFD in this application.

‡ Not used in 16" round tube models.

§ Used only in models using 16" round tube.

CONTROLS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		AMBASSADOR PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	2000Ω			RTV-116	SBT7-578-S	Contrast control-tapped at 1500Ω and 1700Ω-front
B	1 Meg.					Volume control and switch-rear
R1A	750Ω					Contrast control-tapped at 250Ω-front
B	250Ω					Volume control and switch-rear
R2A	1.3 Meg.	VC12132	AG-63-S	AN-69		Vert. hold control
B	Not Req.	Not Req.	KS-3	AK-4		Attach to R2A per instructions
R3A	50KΩ	VC13131	AG-44-S	AN-31		Hor. hold control
B	Not Req.	Not Req.	KS-2	AK-4		Attach to R3A per instructions
R4A	100KΩ	VC12130	AG-49-S	AN-40		Brightness control
B	Not Req.	Not Req.	KS-2	AK-4		Attach to R4A per instructions
R5	1500Ω	VC12122A	RTV-6	SVS-928		Focus control-Wire Wound
R6A	2.5 Meg.	VC12121	AM-84-S	AN-83		Verl. size control
B	Not Req.	Not Req.	FKS-1/4	AK-1		Attach to R6A per instructions
R7A	5000Ω	VC12120	AM-19-S	AN-10		Verl. linearity control
B	Not Req.	Not Req.	FKS-1/4	AK-1		Attach to R7A per instructions

Note 1. Not used in all models.

RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		AMBASSADOR PART No.	IRC PART No.	
R8	2200Ω		BTS-2200	RF Amp. Grid
R9	47Ω		BTS-2200	RF Amp. Cathode
R10	2200Ω		BTS-2200	RF Amp. Plate
R11	220KΩ		BTS-220K	Mixer Grid
R12	15KΩ		BTS-15K	Mixer Plate
R13	22KΩ		BTS-22K	Osc. Grid
R14	4700Ω		BTS-4700	Osc. Plate
R15	100Ω		BTS-100	Decoupling
R16	330Ω		BTS-330	AGC Network
R17	8200Ω		BTS-8200	1st Video IF Amp. Grid
R18	82Ω		BTS-82	1st Video IF Amp. Cathode
R19	100Ω		BTS-100	Decoupling
R20	1 Meg.		BTA-1 Meg.	AGC Filter
R21	22KΩ		BTS-22K	2nd Video IF Amp. Grid
R22	82Ω		BTS-82	2nd Video IF Amp. Cathode
R23	100Ω		BTS-100	Decoupling
R24	8200Ω		BTS-8200	3rd Video IF Amp. Grid
R25	82Ω		BTS-82	3rd Video IF Amp. Cathode
R26	100Ω		BTS-100	Decoupling
R27	2200Ω		BTS-2200	Video Det. Diode Load
R28	1000Ω 10%		BTS-1000	Voltage Divider
R29	39KΩ		BTA-39K	Voltage Divider
R30	680KΩ		BTS-680K	AGC Network
R31	120Ω			Parasitic Supp.
R32	22KΩ			Video Amp. Screen-See Note 2
R33	22KΩ 10%		BTA-22K	Voltage Divider
R34	34KΩ			Video Amp. Plate-See Note 2
R35	5600Ω		BTA-5600	Voltage Divider
R36	270KΩ 10%		BTS-270K	DC Restorer Grid
R37	2200Ω		BTS-2200	Picture Tube Grid
R38	1000Ω		BTS-1000	Acc. Anode Decoupling
R39	220KΩ		BTS-220K	Voltage Divider
R40	10KΩ		BTS-10K	Voltage Divider
R41	47KΩ		BTS-47K	Sound IF Amp. Grid Leak
R42	1000Ω		BTS-1000	Sound IF Amp. Cathode
R43	12KΩ		BTS-12K	Voltage Divider

RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	AMBASSADOR PART No.	IRC PART No.	
R44	39KΩ	1		BTA-39K	Sound IF Amp. Screen
R45	1000Ω			BTS-1000	Sound IF Amp. Decoupling
R46	15KΩ			BTS-15K	De-emphasis
R47	6800Ω			BTS-6800	Ratio Det. Diode Load
R48	6800Ω			BTS-6800	Ratio Det. Diode Load
R49	470KΩ			BTS-470K	Audio Amp. Grid
R50	330KΩ 5%			BTS-330K-5%	Bias Network
R51	180KΩ 5%			BTS-180K-5%	Voltage Divider
R52	470KΩ			BTS-470K	Voltage Divider
R53	4700Ω			BTS-4700	Voltage Divider
R54	100KΩ			BTS-100K	Audio Output Grid
R55	390Ω	1		BTA-390	Decoupling
R56	820KΩ 10%			BTA-820K	Voltage Divider
R57	82KΩ 10%	1		BTS-82K	Sync. Sep. Grid
R58	2700Ω 10%			BTS-2700	Sync. Sep. Cathode
R59	3900Ω			BTS-3900	Sync. Sep. plate
R60	3900Ω			BTS-3900	Sync. Sep. plate
R61	22KΩ			BTS-22K	Integrator
R62	8200Ω			BTS-8200	Integrator
R63	8200Ω			BTS-8200	Integrator
R64	820KΩ	1		BTA-820K	Vert. Osc. Grid
R65	680KΩ			BTS-680K	Vert. Osc. Plate-See Note 3
R66	6.8 Meg.			BTS-6.8 Meg.	Voltage Divider
R67	100KΩ			BTS-100K	Voltage Divider
R68	2.2 Meg.			BTS-2.2 Meg.	Vert. Amp. Grid
R69	560Ω			BTS-560	Vert. Amp. Cathode-See Note 4
R70	3900Ω 10%	2		BTS-3900	Vert. Amp. Plate
R71	3300Ω			BTS-3300	Vert. Peaking
R72	100KΩ			BTS-100K	Horiz. Phase Det. Load
R73	100KΩ			BTS-100K	Horiz. Phase Det. Load
R74	4.7 Meg.			BTS-4.7 Meg.	Horiz. Phase Det. Load
R75	27KΩ			BTS-27K	Feedback Network
R76	4700Ω			BTS-4700	Feedback Network
R77	470KΩ			BTS-470K	Horiz. AFC Filter Network
R78	1500Ω			BTS-1500	Horiz. Osc. Canode
R79	5600Ω			BTS-5600	Horiz. Osc. Plate
R80	100KΩ			BTS-100K	Horiz. Osc. Grid
R81	220KΩ 10%			BTS-220K	Horiz. Osc. Plate
R82	22KΩ	1		BTA-22K	Decoupling
R83	470KΩ			BTS-470K	Decoupling
R84	1 Meg.			BTA-1 Meg.	Hor. Output Grid
R85	68Ω	1			Parasitic Supp.
R86	82Ω	1			Horiz. Output Cathode
R87	8200Ω	2	BTB-8200		Horiz. Output Screen-See Note 5
R88	3.3Ω	1			HV Rectifier Filament
R89	1 Meg.	1			HV Filter
R90	560Ω		BTB-560		Contrast Control Shunt-See Note 6
R91	270Ω	2	BW-2-270		Focus Coil Shunt
R92	15Ω		BW-1-15		Bias Network
R93	4700Ω		BTS-4700		RF Coil Shunt
R94	4700Ω		BTS-4700		Antenna Coil Shunt
R95	330KΩ 5%		BTS-330K-5%		AF Amp. Plate