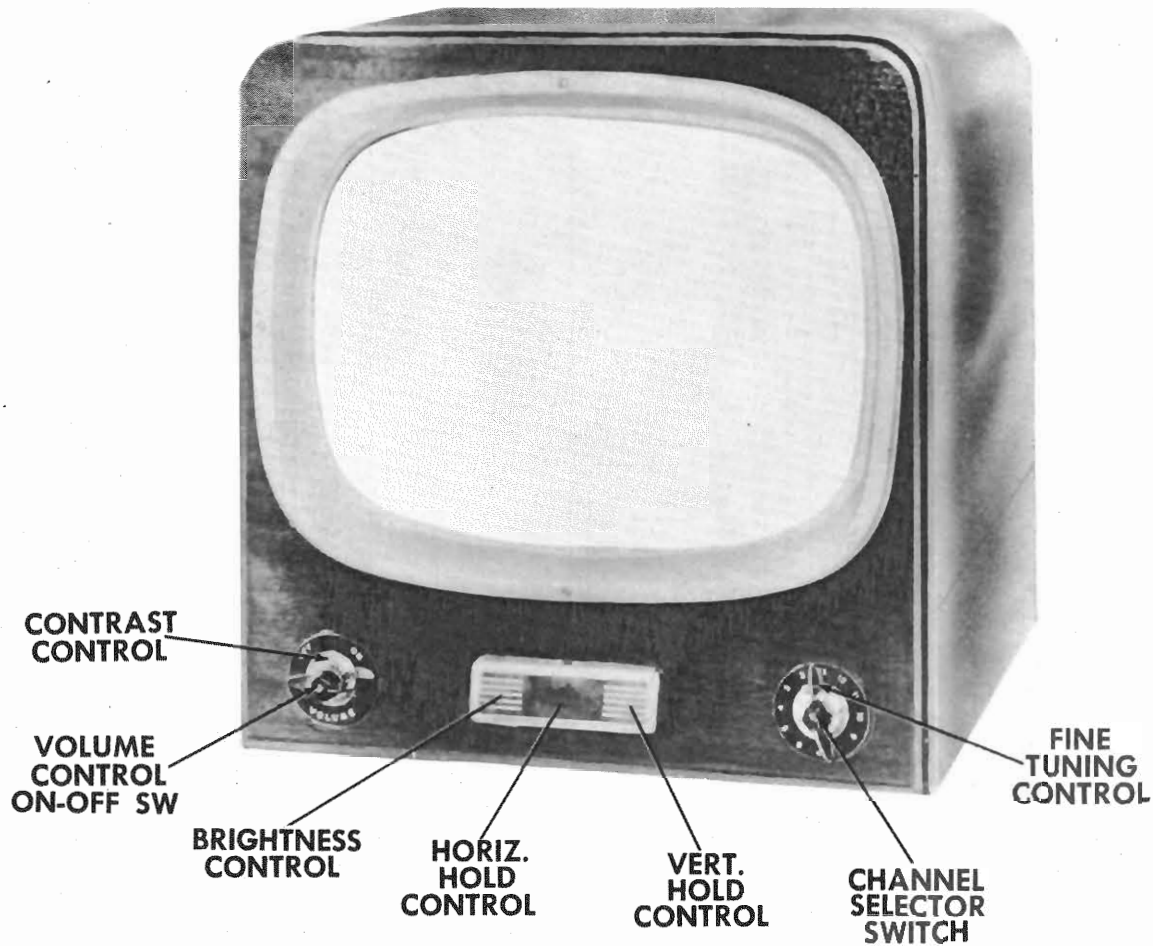




17898



AMBASSADOR MODELS AM17C, CB, CIM, PT, TIM,
AM20C, T, PL17CB, CG, PG, TM, 20C, 23P

AMBASSADOR AM20T	
TRADE NAME	Ambassador Models AM17C, AM17CB, AM17CIM, AM17PT, AM17TIM, AM20C, AM20T, PL17CB, PL17CG, PL17PG, PL17TM, 20C, 23P.
SUPPLIER	Allied Pur. Corp., 401 5th. Ave., New York 16, N. Y.
TYPE SET	Television Receiver
TUBES	Twenty
POWER SUPPLY	110-120 Volts AC - 60 Cycle
TUNING RANGE	Channels 2 thru 13
RATING	1.7 Amp. @ 117 Volts AC
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HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	Ambassador PART No.	JENSEN PART No.	QUAM PART No.	
	CONE DIA.	V. C. DIA.				
SP1	PM	4Ω		ST115 Model P8-V	8A31	
SP2	7 3/4"	9/16"				

FILTER CHOKE

ITEM No.	RATINGS		INDUCTANCE (0 CURRENT 1000 cps)	REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE		Ambassador PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.190A	69Ω	3.5Henries		C-2325 ①	C-2974	TR4200①	① Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	Ambassador PART No.	MERIT PART No.	IRC 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	Fl. Choke	.2Ω				CLA	.47 Microhenries
L9	1st. Video IF	.5Ω					
L10	Fl. Choke	0Ω					
L11	2nd. Video IF	.4Ω					
L12	Fl. Choke	0Ω					
L13	RF Choke	2.6Ω					
L14	3rd. Video IF	.2Ω					
L15	Fl. Choke	0Ω					
L16	RF Choke	2.8Ω					
L17	4th. Video IF	.4Ω					
L18	Peaking	8Ω					120 Microhenries (yellow dot)
L19	Peaking	18Ω					600 Microhenries (red dot)
L20	Peaking	12Ω					240 Microhenries wound on 18KΩ Resistor (Green Dot)
							380 Microhenries (blue dot)
L21	Peaking	15Ω					
L22	Sound IF	1.7Ω	1.4Ω				
L23	Ratio Det.						Tap .5Ω
	Trans.	6.8Ω	.2Ω				
L24	Horiz. Osc.	55Ω					
L25	Horiz. Size	.7Ω					
L26	Horiz. Lin.	38Ω					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			AMBASSADOR PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG Pigtail	.250A			318.250		GJVI/4	

MISCELLANEOUS

ITEM No.	PART NAME	Ambassador PART No.	NOTES
M2	RF Tuner		
M3	Switch		(TV-Phono)
M4	Focus Magnet		
M5	Ion Trap		
B2	Trimmer		Horiz. Drive 25-290 MMF.

CONTRAST CONTROL

VOLUME CONTROL ON-OFF SW

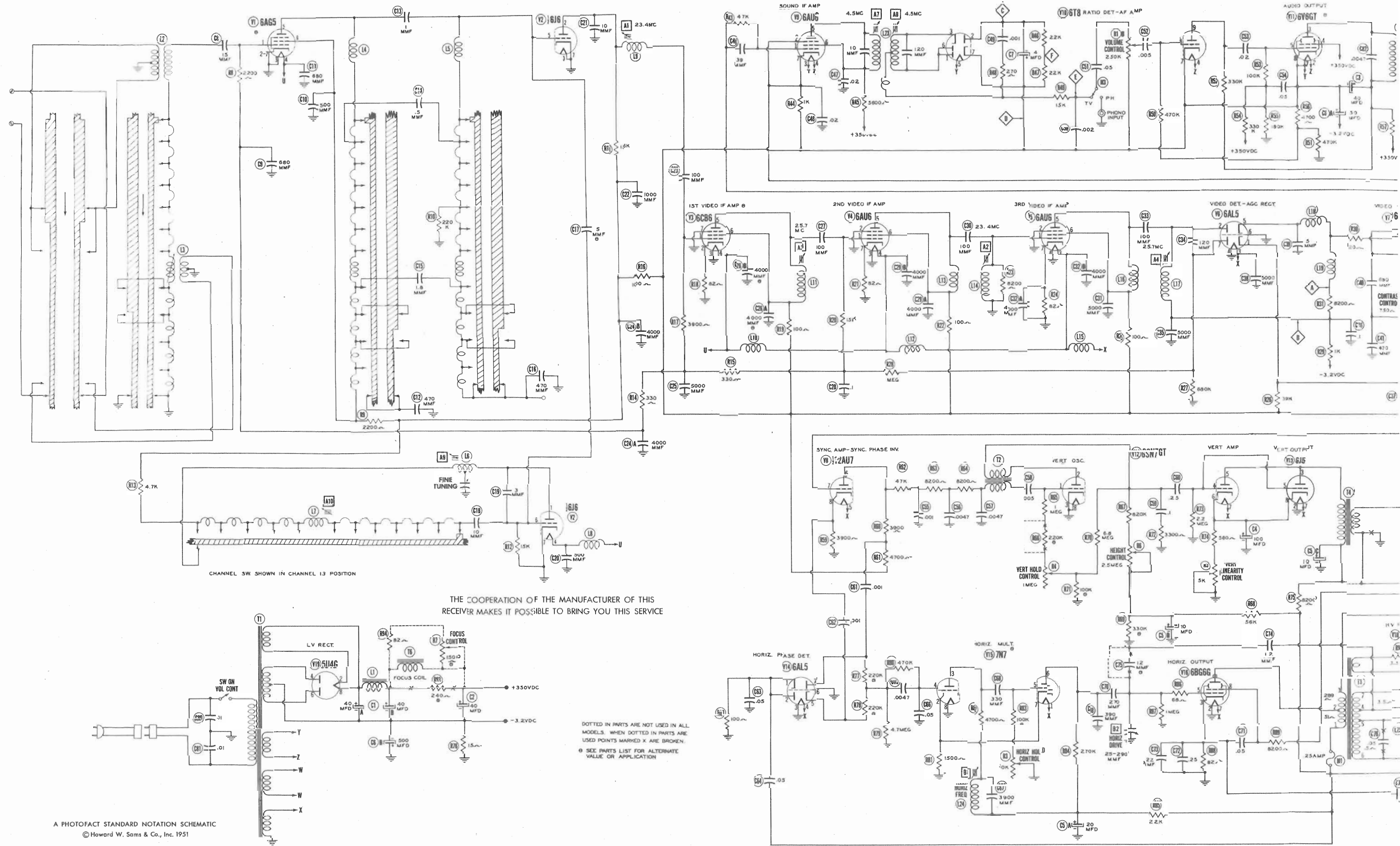
BI (C

TRADE NAME	Ambas
SUPPLIER	Allied
TYPE SET	Televi
TUBES	Twenty
POWER SUPPLY	110-120
TUNING RANGE-Channel	

Alignment Instructions
Disassembly Instructio
Horizontal Sweep Circu
Parts List and Descrip
Photographs
Cabinet - Rear Vie
Capacitor and Allig

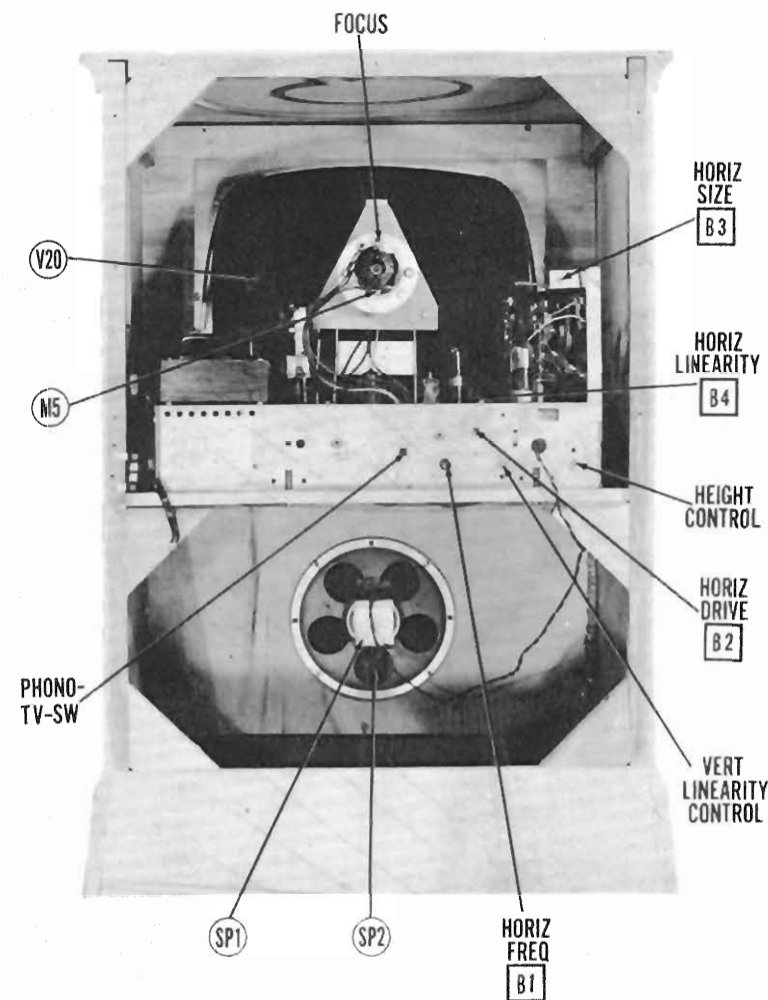
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"The listing of any available replac
case a recommendation, warranty
as to the quality and suitability of
parts have been compiled from info
Inc., by the manufacturers of the p
"Reproduction or use, without exp





**AMBASSADOR MODELS AM17C, CB, CIM, PT, TIM,
AM20C, T, PL17CB, CG, PG, TM, 20C, 23P**



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), counter-clockwise until white beaded vertical lines appear in the raster, and then clockwise just enough to remove the lines.

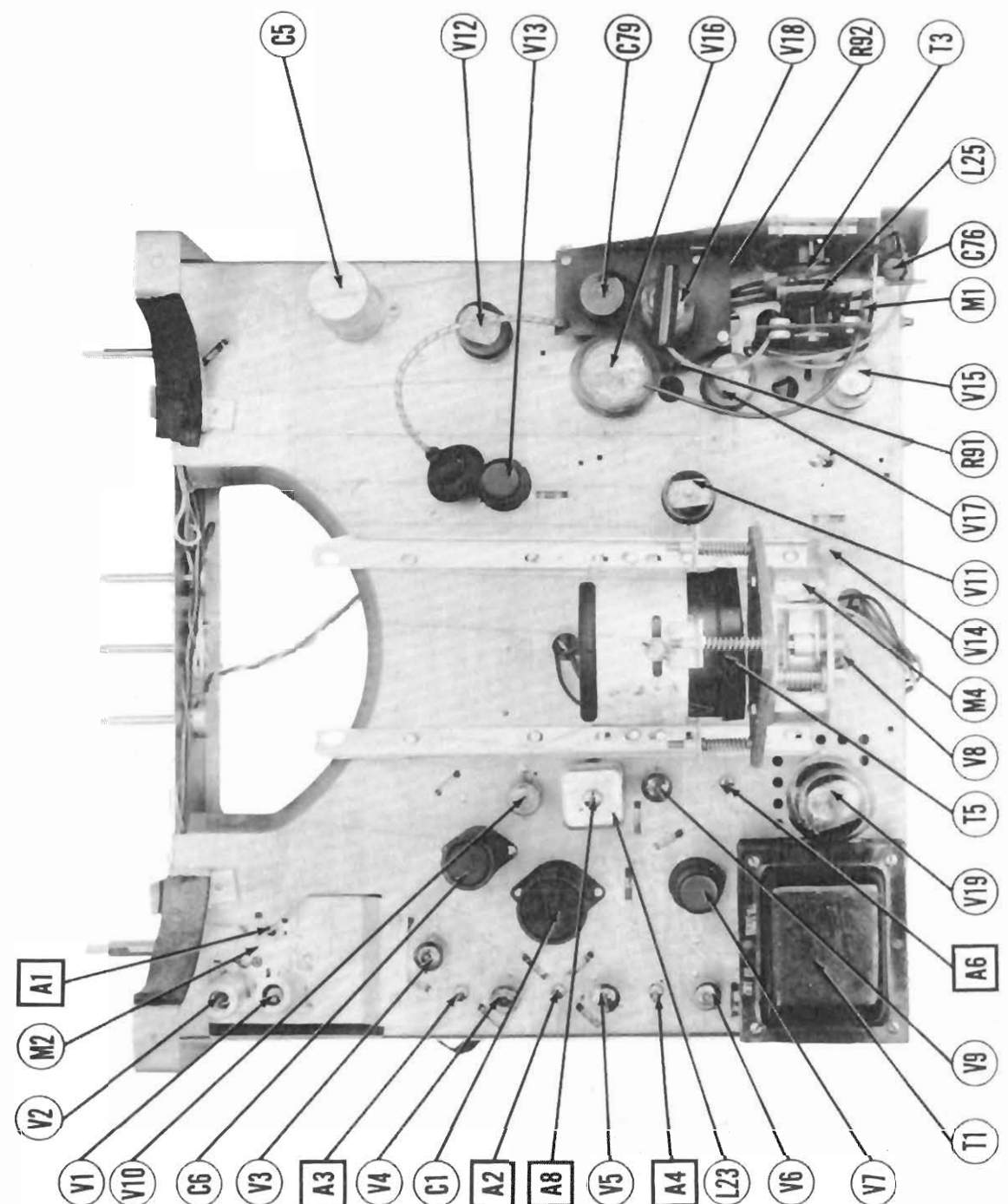
Adjust the horizontal size slug, (B3), until the picture is slightly wider than necessary to fill the mask horizontally.

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

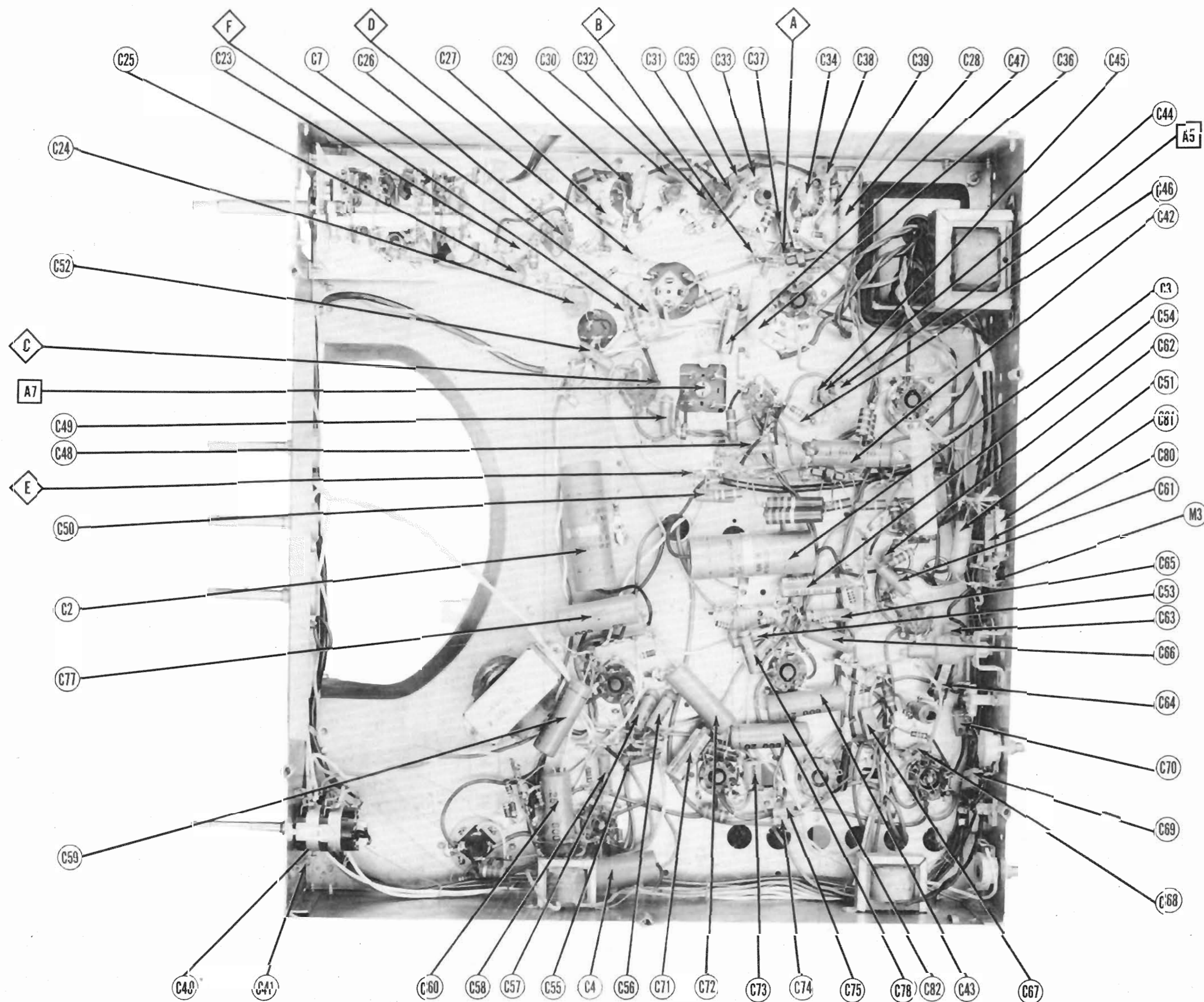
DISASSEMBLY INSTRUCTIONS

1. Remove four push-on type control knobs.
2. Remove nine wood screws from rear cover. Remove rear cover.
3. Disconnect built-in antenna.
4. Remove antenna terminal strip.
5. Disconnect speaker.
6. Remove five 5/16" hex head bolts from chassis. Remove chassis.
7. Remove four 11/32" hex nuts from speaker. Remove speaker.

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



AMBASSADOR MODELS AM17C, CB, CIM, PT, TIM,
AM20C, T, PL17CB, CG, PG, TM, 20C, 23P
MAIN DOT CHASSIS



CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

AMBASSADOR MODELS AM17C, CB, CIM, PT, TIM,
AM20C, T, PL17CB, CG, PG, TM, 20C, 23P.

VOLTAGE AND RESISTANCE MEASUREMENTS

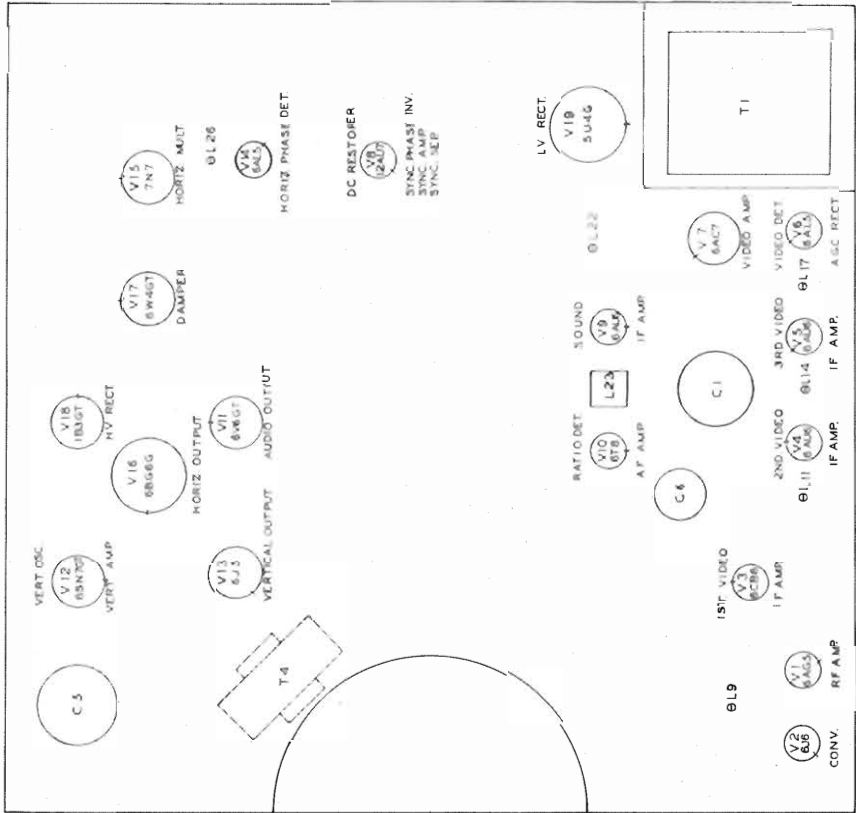
VOLTAGE READINGS											RESISTANCE READINGS										
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-6VDC	0V	6.3VAC	0V	105VDC	105VDC	0V			V 1	6AG5	1.6Meg	0Ω	.1Ω	0Ω	42.3KΩ	12.3KΩ	0Ω		
V 2	6J6	100VDC	85VDC	0V	6.3VAC	-1.2VDC	1-3.1VDC	0V			V 2	6J6	44.8KΩ	15KΩ	0Ω	.2Ω	220KΩ	15KΩ	0Ω		
V 3	6CB6	-3VDC	.5VDC	0V	6.2VAC	140VDC	140VDC	0V			V 3	6CB6	1.6Meg	82Ω	0Ω	.1Ω	1100Ω	1100Ω	0Ω		
V 4	6AU6	-3VDC	0V	0V	6.2VAC	140VDC	140VDC	.8VDC			V 4	6AU6	1.7Meg	0Ω	0Ω	.1Ω	1100Ω	1100Ω	82Ω		
V 5	6AU6	0V	0V	6.2VAC	0V	140VDC	140VDC	.9VDC			V 5	6AU6	.2Ω	0Ω	.1Ω	0Ω	1100Ω	1100Ω	82Ω		
V 6	6AL5	0V	-3VDC	6.3VAC	0V	-2.4VDC	0V	-1.2VDC			V 6	6AL5	0Ω	1KΩ	.1Ω	0Ω	9.2KΩ	0Ω	680KΩ		
V 7	6AC7	0V	0V	1VDC	110VDC	110VDC	6.3VAC	170VDC			V 7	6AC7	0Ω	0Ω	750Ω	9.3KΩ	750Ω	10KΩ	.1Ω	115KΩ	
V 8	12AU7	28VDC	0V	2.5VDC	6.3VAC	85VDC	28VDC	28VDC	0V		V 8	12AU7	1820KΩ	0Ω	270KΩ	.1Ω	.1Ω	15.5KΩ	1820KΩ	3.9KΩ	0Ω
V 9	6AU6	18.8VDC	113VDC	10V	16.3VAC	1125VDC	1125VDC	113VDC			V 9	6AU6	147KΩ	51KΩ	50Ω	5.1Ω	15.8KΩ	15.8KΩ	11KΩ		
V 10	6T8	1-.6VDC	1-.6VDC	10V	1-.6VDC	10V	1-.6VDC	10V	1-.7VDC	1185VDC	V 10	6T8	1Ind.	544KΩ	1Ind.	5.1Ω	10Ω	1Ind.	50Ω	5470KΩ	1330KΩ
V 11	6V6GT	0V	16.3VAC	1170VDC	10V	8VDC	0V	10V	10V	50V	V 11	6V6GT	Inf.	5.1Ω	11KΩ	1300Ω	1240KΩ	Inf.	10Ω		
V 12	6SN7GT	1-60VDC	145VDC	10V	1-7.6VDC	380VDC	32VDC	6.3VAC	8VDC	0V	V 12	6SN7GT	2.3Meg	2.3Meg	2.3Meg	2.3Meg	49.5KΩ	500KΩ	.1Ω	0Ω	
V 13	6J5	0V	0V	390VDC	0V	-2.8VDC	0V	6.3VAC	32VDC		V 13	6J5	0Ω	0Ω	9.5KΩ	Inf.	2.2Meg	Inf.	.1Ω	1.5KΩ	900Ω
V 14	6AL5	0V	0V	6.3VAC	8VDC	0V	-11.8VDC	0V			V 14	6AL5	100Ω	100Ω	0Ω	.1Ω	4.8Meg	0Ω	4.8Meg		
V 15	7N7	6.3VAC	12VDC	10VDC	1-2.4VDC	1-6VDC	115VDC	12VDC	0V		V 15	7N7	.1Ω	1.5KΩ	26KΩ	5.1Meg	100KΩ	200KΩ	1.5KΩ	0Ω	
V 16	6BG6G	0V	0V	7.6VDC	7.6VDC	350VDC	6.3VAC	265VDC		Top Cap	V 16	6BG6G	Inf.	0Ω	82Ω	82Ω	1Meg	1500Ω	.1Ω	18.5KΩ	Top Cap #900
V 17	6W4GT	0V	0V	530VDC	0V	350VDC	0V	6.3VAC	6.3VAC		V 17	6W4GT	Inf.	Inf.	180KΩ	Inf.	1300Ω	Inf.	4.1Ω	4.1Ω	Top Cap #340Ω
V 18	1B3GT	* DO NOT MEASURE									V 18	1B3GT	PINS 1-8 HAVE INF. RESISTANCE								
V 19	5U4GT	0V	400VDC	0V	200VAC	0V	350VAC	350VDC	400VDC		V 19	5U4GT	Inf.	22KΩ	Inf.	75Ω	Inf.	73Ω	1300Ω	22KΩ	
V 20	17BP4A	0V	2.6VDC	340VDC	30VDC	6.3VAC	6.3VAC	H-V CONNECTOR ** 11K V.			V 20	17BP4A	0Ω	270KΩ	71.2KΩ	140KΩ	10Ω	100KΩ	140KΩ		

ALL MEASUREMENTS TAKEN WITH PICTURE TUBE REMOVED
† MEASURED FROM PIN 8 OF V19
* DO NOT MEASURE
* MEASURED ACROSS FILAMENTS
* TAKEN WITH VACUUM TUBE VOLTMETER
** USE EXTREME CAUTION WHEN MEASURING THIS VOLTAGE

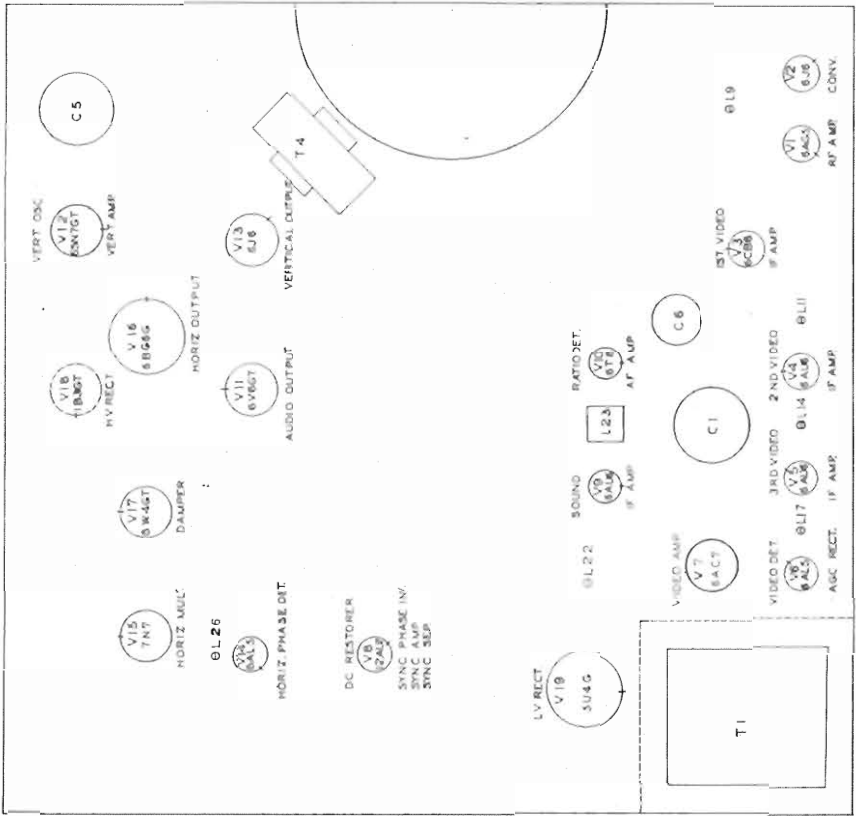
1. DC Voltage measurements are at 20,000 ohms per volt. AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.

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.

ALL MEASUREMENTS TAKEN WITH PICTURE TUBE REMOVED
† MEASURED FROM PIN 8 OF V19
* DO NOT MEASURE
* MEASURED ACROSS FILAMENTS
* TAKEN WITH VACUUM TUBE VOLTMETER
** USE EXTREME CAUTION WHEN MEASURING THIS VOLTAGE



TOP VIEW



BOTTOM VIEW

TUBE PLACEMENT CHART

AMBASSADOR MODELS AM17C, CB, CIM, PT, TIM, AM20C, T, PL17CB, CG, PG, TM, 20C, 23P

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube, (V15), from the socket.

VIDEO IF ALIGNMENT

Remove the converter tube, (V2), and replace it with a 6J6 which has pin 1 removed, this will disable the local oscillator and prevent the possibility of erroneous indications. During video IF alignment the common lead of the VTVM is connected to approximately 2½ volts with respect to chassis. Avoid grounding the VTVM case. Connect a short across C28.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to an ungrounded tube shield floating over dummy converter tube, (V2). Low side to chassis.	23.4MC (unmod.)	Any	DC probe to Point A. Common to Point B.	A1, A2	Adjust for maximum deflection. Attenuate signal generator to maintain 2 volt reading.
2. "	"	25.7MC	"	"	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. Remove the short from C28.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3. Direct	High side to an ungrounded tube shield floating over dummy converter tube, (V2). Low side to chassis.	24MC (10MC SWP)	21.8MC 26.1MC	Any	Vert. Amp. to Point C. Low side to chassis.		Check for response curve similar to fig. 1. If necessary, retouch A1 thru A4 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

During sound IF alignment the common lead of the VTVM is connected to approximately 140 volts with respect to chassis. Avoid touching or grounding the VTVM case.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. .001MFD	High side to pin 4 (Grid) of 6AC7, (V7). Low side to chassis.	4.5MC (unmod.)	Any	DC probe to Point D. Common to Point E.	A5, A6, A7	Adjust for maximum deflection.
5. "	"	"	"	DC probe to Point F. Common to Point G.	A8	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 80% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. .001MFD	High side to pin 4, (grid) of 6AC7, (V7). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any	Vert. Amp. to Point H. Low side to chassis.	A5, A6, A7	Disconnect stabilizer capacitor C7. Adjust for maximum amplitude and symmetry as per fig. 2.
5. "	"	"	"	"	Vert. Amp. to Point I. Low side to chassis.	A8	Reconnect capacitor C7. Adjust A8 so 4.5MC occurs at center of crossover lines as per fig. 3. SLIGHTLY retouch A7 for maximum amplitude and straightness of crossover lines.

OSCILLATOR ALIGNMENT

Remove the dummy converter tube and replace the original 6J6 in its socket. Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms. Set the fine tuning control to the mid-position of its range.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. to Point J. Low side to chassis.	A9	Adjust to place sound marker as shown in fig. 4. The video marker should be at 50%.
7. "	"	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 markers can be properly placed well within the range of the fine tuning control. If not make compromise adjustment of A9.
8. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	"	A10	Adjust to place sound marker as shown in fig. 4. The video marker should be at 50%.
9. "	"	79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	5 4 3 2	"		Check all low band channels to see that the markers can be properly placed well within the range of the fine tuning control. If not make compromise adjustment of A10.

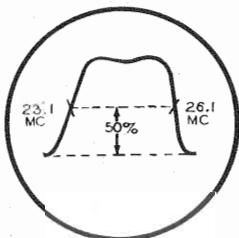


FIG.1

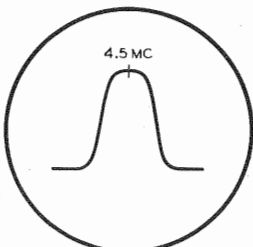


FIG.2

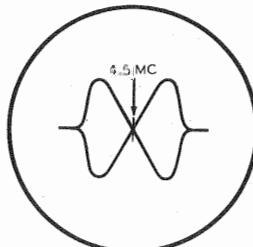


FIG.3

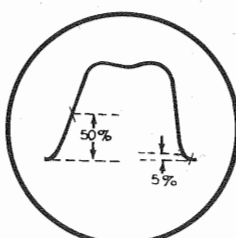
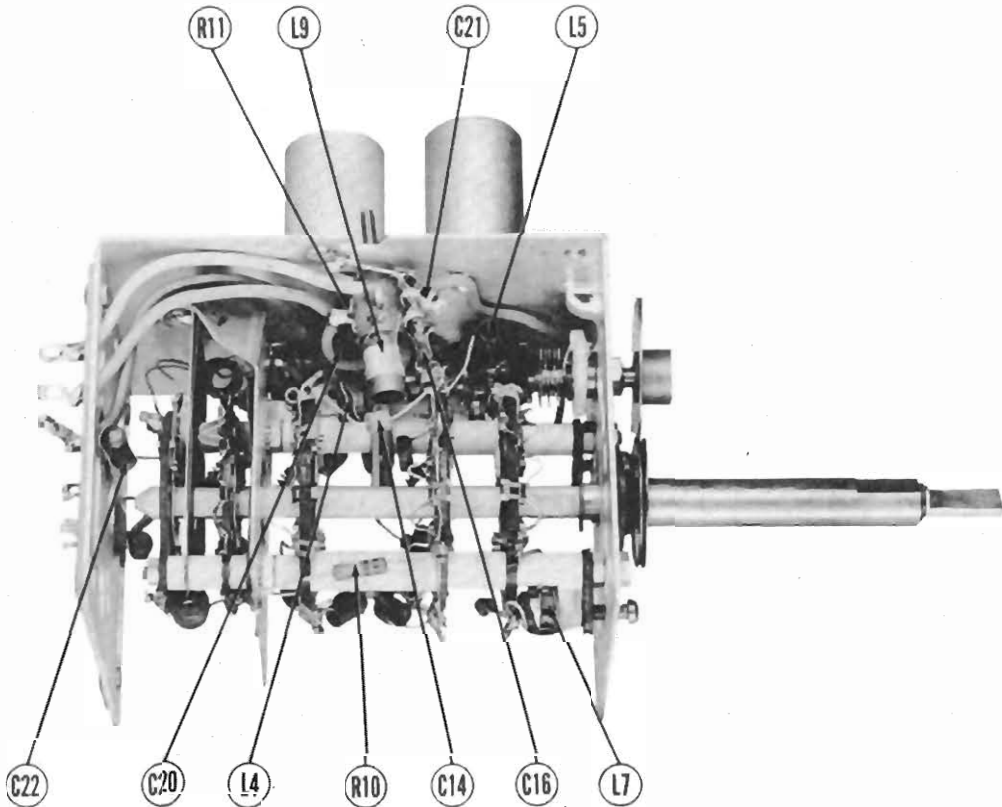
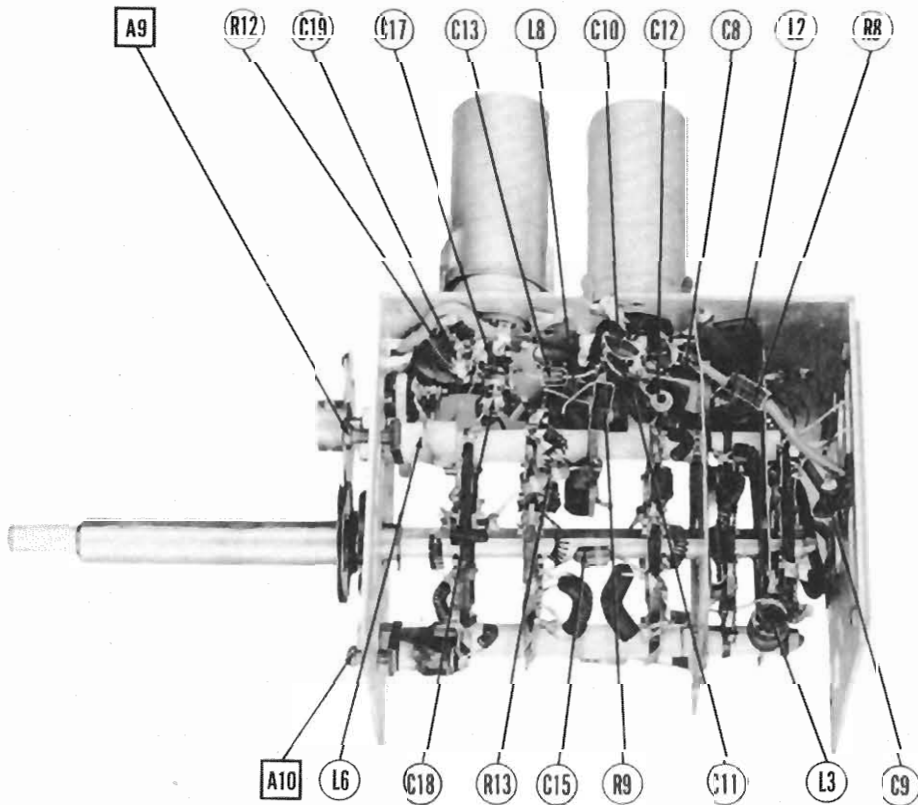


FIG.4

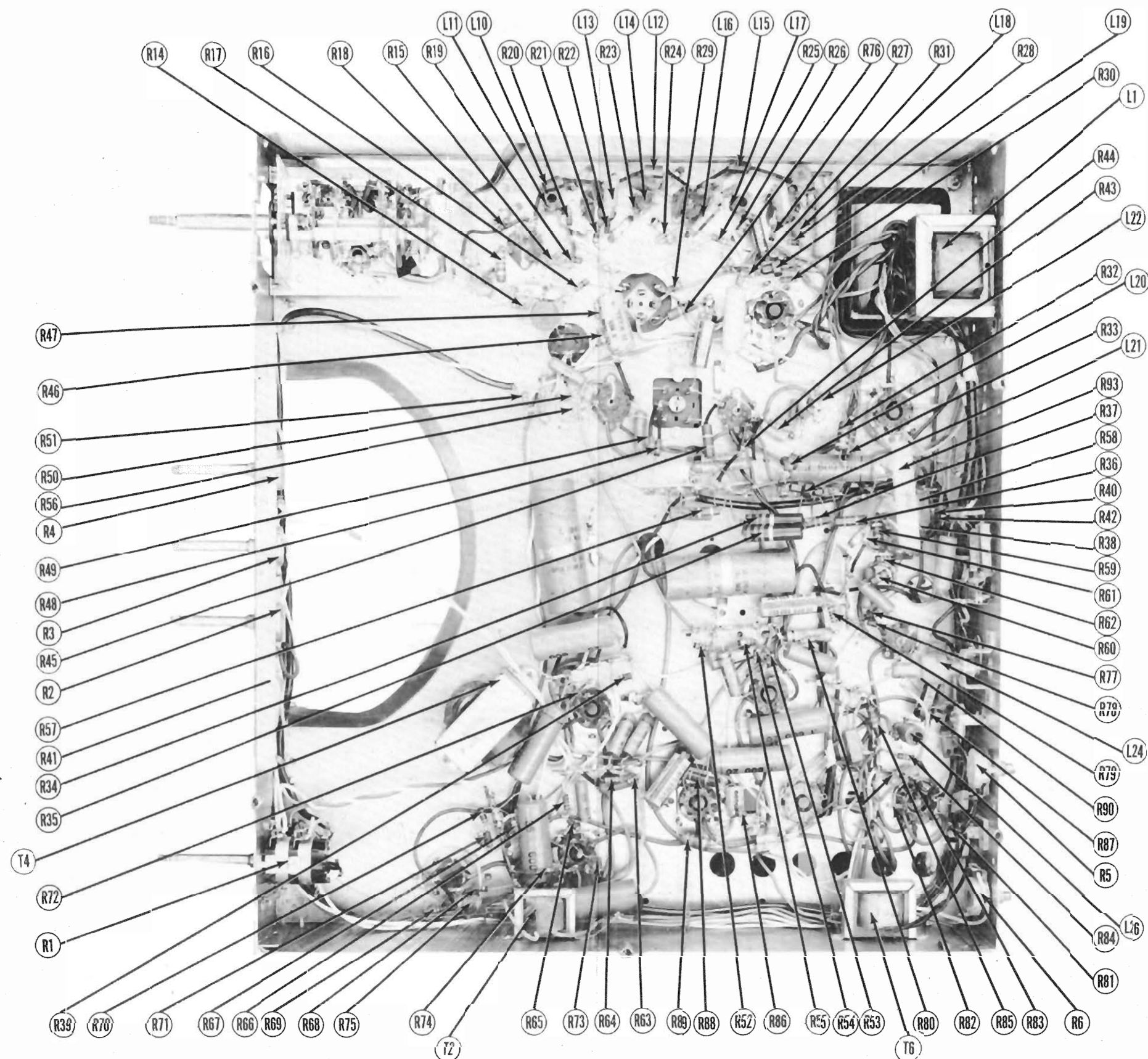


RF TUNER-LEFT SIDE



RF TUNER-RIGHT SIDE

AMBASSADOR I MODELS AM17C, CB, CIM, PT, TIM,
AM20C, T, PL17CB, CG, PG, TM, 20C, 23P



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		
V1A	RF Amplifier	5AG5	5BD		
B	RF Amplifier	6BC5	7BD		
V2	Converter	6J6	7BF		
V3A	1st. Video IF Amp.	6CB6	7CM		
B	1st. Video IF Amp.	6BC5	7BD		
V4	2nd. Video IF Amp.	6AU6	7BK		
V5	3rd. Video IF Amp.	6AU6	7BK		
V6	Video Detector - AGC Rectifier	6AL5	6BT		
V7A	Video Amplifier	6AC7	8N		
B	Video Amplifier	6AH6	7BK		
V8A	DC Restorer - Sync. Separator - Sync. Amplifier - Sync. Phase Inverter	12AU7	12AU7	9A	
B	DC Restorer - Sync. Separator - Sync. Amplifier - Sync. Phase Inverter	12AV7	12AV7	9A	
C	DC Restorer - Sync. Separator - Sync. Amplifier - Sync. Phase Inverter	12AZ7	12AZ7		
V9	Sound IF Amp.	6AU6	7BK		
V10	Ratio Detector - AF Amplifier	6T8	9E		
V11A	Audio Output	6V6GT	7AC		
B	Audio Output	6AQ5	7BZ		
C	Audio Output	6K6GT	7S		
V12	Vert. Oscillator - Vert. Amplifier	6SN7GT	8BD		
V13	Vertical Output	6J5	6Q		
V14	Horiz. Phase Det.	6AL5	6BT		
V15A	Horiz. Mult.	7N7	8AC		
B	Horiz. Mult.	6SN7GT	8BD		
V16	Horiz. Output	6BD6G	5BT		
V17	Damper	6W4GT	4CG		
V18	HV Rectifier	1B3GT	3C		
V19	LV Rectifier	5U4G	5T		

CATHODE-RAY TUBE

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		Ambassador PART No.	SYLVANIA PART No.		
V20A	17BP4A	17BP4A		12D	
B	19AP4	19AP4		12D	
C	20CP4	20CP4		12D	
D	20DP4	20DP4		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		CORNEILL DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		Ambassador PART No.	AEROVOX PART No.				
C1A	40 450		AFH2-57	UP4445			Filter
B	40 450						Filter
C2	40 450		PRS450/40	BR4045A			Filter
C3	40 450		PRS450/40	BR4045A			Filter
C4	100 25		PRS25/100	BRH251A			Filter
C5A	20 450		AFH4-13	UPT21145			Filter
B	40 450						Filter
C	10 450						Filter
D	10 150						Filter
C6A	50 150		AFH1-18	UP5015			Filter
B	500 5		BRH605A	BR550			Filter
C7	4 25		PRS150/4				Filter
C8	15		SD5	D6-150			Filter
C9	680		SI680	D6-681			Filter
C10	500		SI500	D6-501			Filter
C11	680		SI680	D6-681			Filter
C12	470		SI470	D6-470			Filter
C13	1			TCZ-1			Filter
C14	5			TCZ-5			Filter
C15	1.8						Filter
C16	470		SI470	D6-470			Filter
C17	5		SI5NP0	TCZ-4.7			Filter
C18	10		SI10NP0	TCZ-10			Filter
C19	3						Filter
C20	500		SI500	D6-501			Filter
C21	10		SI10NP0	TCZ-10			Filter
C22	1000		BPD-501	DD-102			Filter
C23	100		1468-0001	D6-101	5W5T1		Filter
C24A	4000		BPD-2X004	D6-402	1D5D4		Filter
B	4000			D6-402	1D5D4		Filter
C25	5000		BPD-005	DD-502	1D5D5		Filter
C26A	4000		BPD-2X004	D6-402	1D5D4		Filter
B	4000			D6-402	1D5D4		Filter
C27	1		1468-0001	D6-101	5W5T1		Filter
C28	10		P288-1	DF-104	FTE4P1		Filter
C29A	4000		BPD-2X004	D6-402	1D5D4		Filter
B	4000			D6-402	1D5D4		Filter
C30	100		1468-0001	D6-101	5W5T1		Filter
C31	5000		BPD-005	DD-502	1D5D5		Filter
C32A	4000		BPD-2X004	D6-402	1D5D4		Filter
B	4000			D6-402	1D5D4		Filter
C33	100 500		1468-0001	D6-101	5W5T1		Filter
C34	100 500		1468-0001	D6-101	5W5T1		Filter
C35	5000		BPD-005	DD-502	1D5D5		Filter
C36	1		P288-1	DF-104	PTE4P1		Filter
C37	0.1 200		P488-01	D6-105	RF Bypass		Filter
C38	5000		BPD-005	DD-502	1D5D5		Filter

CAPACITORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		CORNEILL DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		Ambassador PART No.	AEROVOX PART No.				
C39	5 500		1469-00005	TCZ-4.7	SR5V5		Video Det. Filter
C40	680		SI680	D6-681	1W5T47		Contrast Contr. Shunt
C41	470		SI470	D6-471	5W5T5		Video Amp. Cathode
C42	1 600		P688-1	DF-104	PTE6P1		Video Coupling
C43	1 600		P688-1	DF-104	PTE6P1		Picture Tube Cathode
C44	47		SI47N750	TCN-47			Fixed Trimmer
C45	57			TCN-56			Fixed Trimmer
C46	39		1468-00004	D6-390	5W5Q4		Sound IF Coupling
C47	0.2 600		P688-02	DF-203	PTE6S2		Sound IF Decoupling
C48	0.2 600		P688-02	DF-203	PTE6S5		Sound IF Cathode
C49	0.01 600		P688-001	D6-102	PTE6D1		RF Bypass
C50	0.002 600		P688-002	D6-202	PTE6D2		De-emphasis
C51	0.5 200		P288-05	DF-503	PTE4S5		Audio Coupling
C52	0.005 600		P688-005	D6-502	PTE6D5		Audio Coupling
C53	0.2 600		P688-02	DF-203	PTE6S2		Audio Coupling
C54	0.5 600		P688-05	DF-503	PTE6S5		Audio Output Grid Dec.
C55	0.01 600		P688-001	D6-102	PTE6D1		Vert. Integrator Net.
C56	0.0047 600		P688-0047	D6-472	PTE6D5		Vert. Integrator Net.
C57	0.0047 600		P688-0047	D6-472	PTE6D5		Vert. Integrator Net.
C58	0.005 600		P688-005	D6-502	PTE6D5		Vert. Osc. Grid
C59	1 600		P688-1	DF-104	PTE6P1		Vert. Discharge
C60	25 600		684-25		GP2P25		Vert. Sweep Coupling
C61	0.01 600		P688-001	D6-102	PTE6D1		Horiz. Sync. Coupling
C62	0.01 600		P688-001	D6-102	PTE6D1		Horiz. Sync. Coupling
C63	0.5 200		P288-05	DF-503	PTE4S5		AFC Filter
C64	0.5 600		P688-05	DF-503	PTE6S5		Horiz. Sweep Coupling
C65	0.0047 600		P688-0047	D6-472	PTE6D5		AFC Filter
C66	0.5 200		P288-05	DF-503	PTE4S5		Horiz. MV Grid
C67	3900 500		1464-004	D6-391	5W5Q4		Fixed Trimmer
C68	330 500		1468-00035	D6-331	5W5T3		Horiz. MV Feedback
C69	390 500		1468-00004	D6-391	5W5T4		Horiz. Discharge
C70	270 500		1468-00003	D6-271	5W5T3		Horiz. Sweep Coupling
C71	0.5 600		P688-05	DF-503	PTE6S5		Horiz. Output Screen
C72	25 200		1468-25		GP2P25		Horiz. Output Cathode
C73	22 500		1468-00025	D6-220	5W5Q25		Horiz. Output Cathode
C74	12 1500						Horiz. Feedback
C75	12 1500						Horiz. Feedback
C76	0.5 600		P688-05	DF-503	PTE6S5		Fixed Trimmer
C77	25 600		684-25		GP2P25		Horiz. Sweep Coupling
C78	1 600		P688-1	DF-104	PTE6P1		Damper Filter
C79	500 20000		HV-20C	PT-592			HV Filter
C80	0.1 600		P688-01	D6-103	PTE6S1		Line Filter
C81	0.1 600		P688-01	D6-103	PTE6S1		Line Filter
C82	0.0047 600		P688-0047	D6-472	PTE6D5		Audio Output Plate

* Not used in all models.
† Some models use 5000MMF. in this application.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		CLAROSTAT PART No.	CENTRALAB PART No.	INSTALLATION NOTES
		Ambassador PART No.	IRC PART No.			
R1A	750Ω		P1-1002	RTV-252		Contrast Control - Tapped at 500Ω - Wire Wound - Front
R2A	250KΩ		PT-1007	Q11-128	AG-49-S	Volume Control and SW - Rear
B	100KΩ		Not req.	KSS-3	AK-4	Brightness Control
R3A	50KΩ		PT-1009	Q11-123	AG-44-S	Attach to R2A per instructions
B	50KΩ		Not req.	KSS-3	AK-4	Horiz. Hold Control
R4A	1Meg		PT-1008	Q11-137	AG-61-S	Attach to R3A per instructions
B	1Meg		Not req.	KSS-3	AK-4	Vert. Hold Control
R5A	5000Ω		PT-1004	Q11-104	AG-19-S	Attach to R4A per instructions
B	5000Ω		Not req.	KSS-3	AK-4	Vert. Linearity Control
R6A	2.5Meg		PT-1005	Q11-239	AG-84-S	Attach to R5A per instructions
B	2.5Meg		Not req.	KSS-3	AK-4	Height Control
R7	1500Ω		Not req.	FKS-1/4	AK-1	Attach to R6A per instructions

Note 1 Not used in all models.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		CORNEILL DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		Ambassador PART No.	AEROVOX PART No.				
R8	2200Ω		BTS-2200				RF Amp. Grid
R9	2200Ω		BTS-2200				RF Amp. Decoupling
R10	220KΩ		BTS-220K				Mixer Grid
R11	15KΩ		BTS-15K				Mixer Plate
R12	15KΩ		BTS-15K				Osc. Grid
R13	4700Ω		BTS-4700				Osc. Plate
R14	330Ω		BTS-330				AGC Network
R15	330Ω		BTS-330				AGC Network
R16	100Ω		BTS-100				Decoupling
R17	3900Ω		BTS-3900				1st. Video IF Amp. Grid - See Note 3
R18	82Ω		BTS-82				1st. Video IF Amp. Cathode
R19	100Ω		BTS-100				1st. Video IF Amp. Decoupling
R20	15KΩ		BTS-15K				2nd. Video IF Amp. Grid
R21	82Ω		BTS-82				2nd. Video IF Amp. Cathode
R22	100Ω		BTS-100				2nd. Video IF Amp. Decoupling
R23	8200Ω		BTS-8200				3rd. Video IF Transformer Shunt
R24	82Ω		BTS-82				3rd. Video IF Amp. Cathode
R25	100Ω		BTS-100				3rd. Video IF Amp. Decoupling
R26	39KΩ		BTA-39K				Voltage Divider
R27	680KΩ		BTS-680K				AGC Load
R28	1Meg		BTS-1Meg				AGC Network
R29	1000Ω		BTS-1000				Bias Network
R30	120Ω		BTS-120				Parasitic Suppressor
R31	8200Ω		BTS-8200				Video Det. Diode Load
R32	43KΩ		BTS-43K				Video Amp. Screen
R33	43KΩ		BTS-43K				Video Amp. Plate
R34	56KΩ		BTS-56K				Video Amp. Plate
R35	56KΩ		BTS-56K				Voltage Divider
R36	5600Ω		BTA-5600				Voltage Divider
R37	22KΩ		BTA-22K				Voltage Divider
R38	270KΩ		BTS-270K				DC Restorer Diode Load
R39	220KΩ		BTS-220K				Voltage Divider

RESISTORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		CORNEILL DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		Ambassador PART No.	AEROVOX PART No.				
R40	2200Ω		BTS-2200				Picture Tube Grid
R41	27KΩ		BTS-27K				Picture Tube Cathode
R42	1000Ω		BTS-1000				Acc. Anode Load
R43	47KΩ		BTS-47K				Sound IF Amp. Grid
R44	1000Ω		BTS-1000				Sound IF Amp. Cathode
R45	5600Ω		BTA-5600				Sound IF Amp. Decoupling
R46	22KΩ		BTS-22K				Ratio Det. Diode Load
R47	22KΩ		BTS-22K				Ratio Det. Diode Load
R48	270Ω		BTS-270				Balancing
R49	15KΩ		BTS-15K				De-emphasis
R50	470KΩ		BTS-470K				AF Amp. Grid</