

ADMIRAL MODEL 36X36

TRADE NAME	Admiral	MODEL	TV CHASSIS	RADIO CHASSIS
		26R25, 26R26, 26R35, 26R36, 26R37	24H1	
		26X35, 26X36, 26X37	24D1	
		26X45, 26X46	24H1	
		29X16, 29X17	24F1	
		36X36, 36X37	24E1	5B2
		39X16, 39X16A, 39X17, 39X17A	24G1	5B2
MANUFACTURER	Admiral Corp., 201 E. North Water St., Chicago 11, Illinois			
TYPE SET	TV-AM-FM-Phono Combination Receiver (Some models "TV" only)			
TUBES	Twenty Four (TV only models) Twenty Nine (Combination models)			
POWER SUPPLY	110-120 Volts AC-60 Cycle			
RATING	2.1 Amp. at 117 Volts AC (TV Operation)			
TUNING RANGES	TV Channels 2 thru 13, FM 88-108MC, AM 540-1620KC			

**ADMIRAL**  
**CHASSIS 24D1, 24E1, 24F1, 24G1, 24H1**

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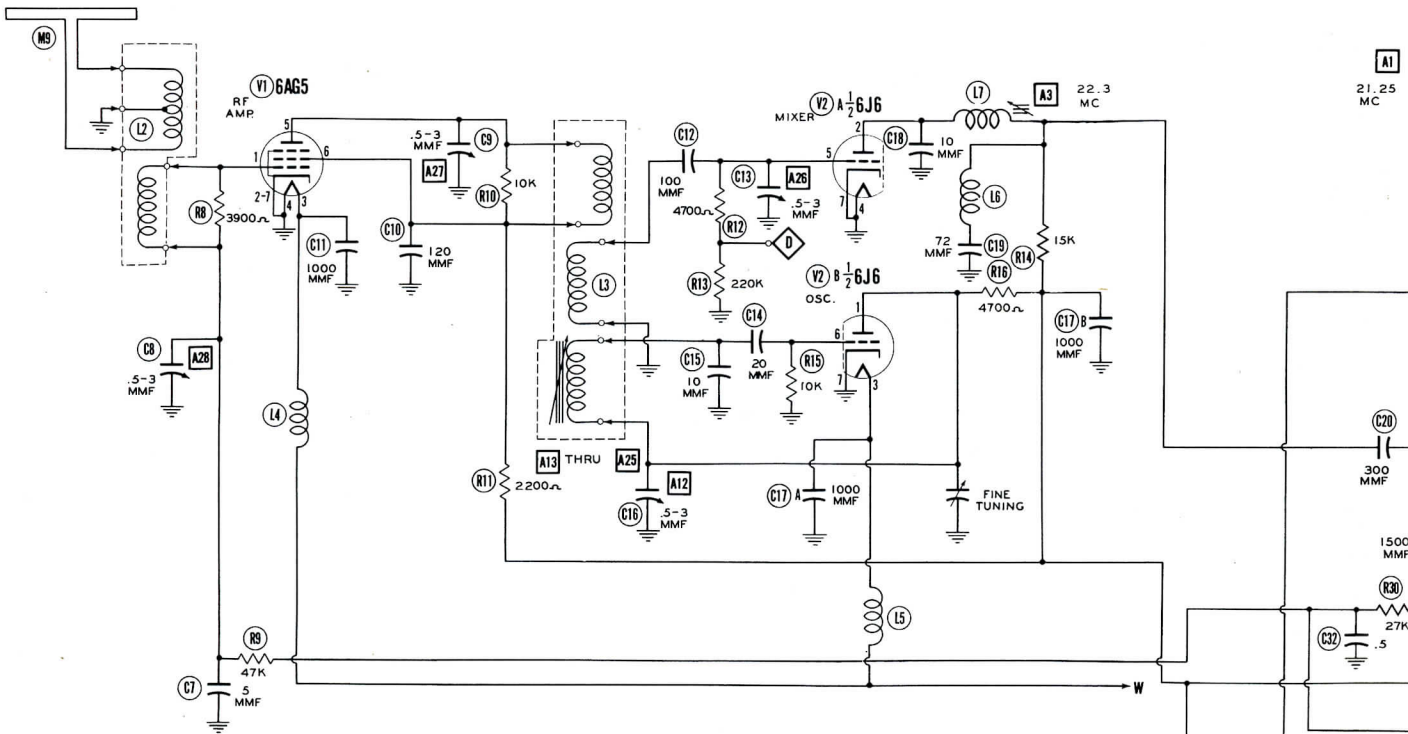
FOR SERVICE INFORMATION ON RADIO CHASSIS 5B2 SEE PHOTOFACT SET #100 FOLDER #1

RECORD CHANGER UNIT-ADMIRAL RC-500

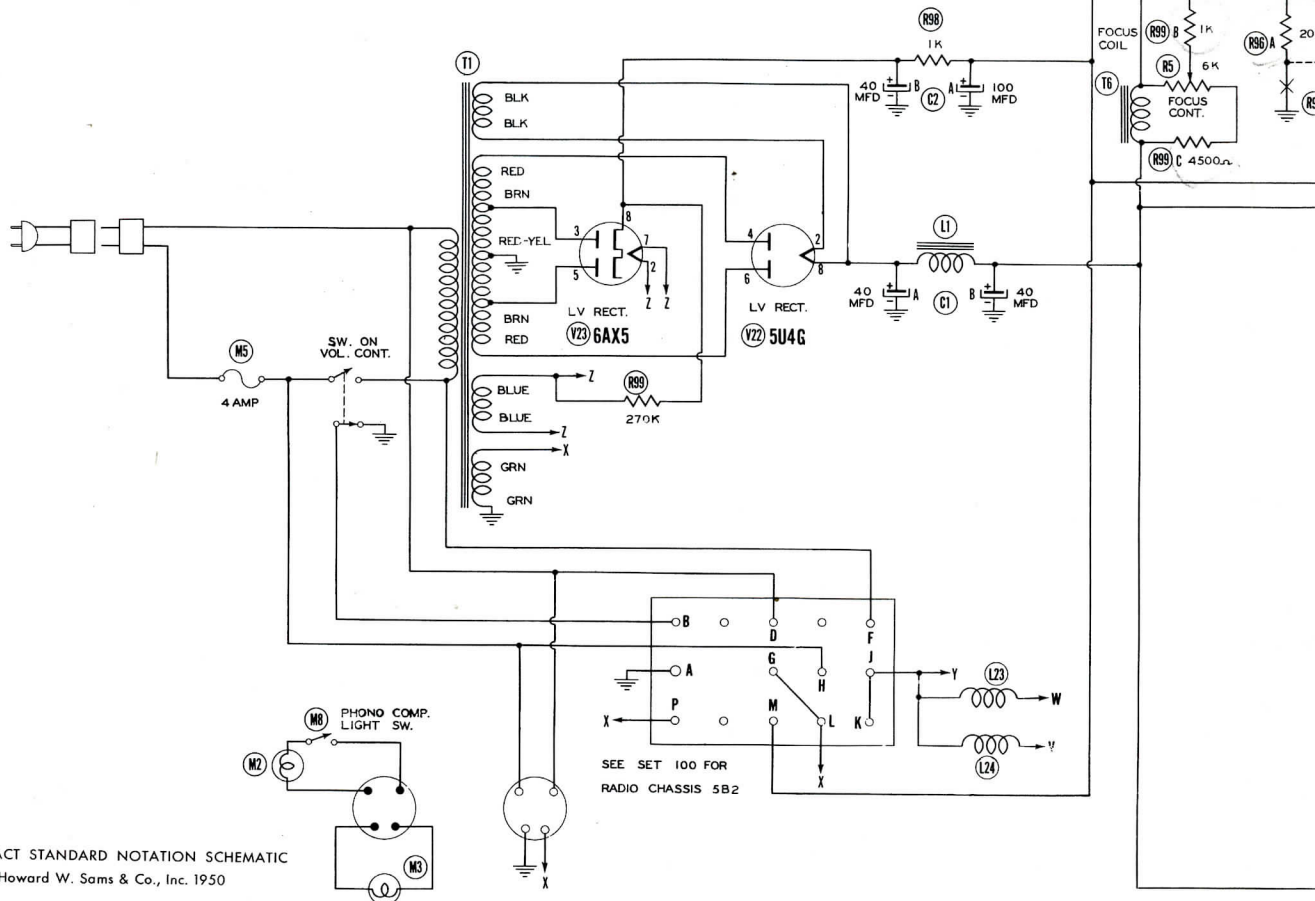
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THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 © Howard W. Sams & Co., Inc. 1950

A1  
 21.25  
 MC

C20  
 300  
 MMF

1500  
 MMF

R20  
 27K  
 .5

R9B  
 1K

R9A  
 20

R9C  
 4500

R9  
 6K

R9  
 270K

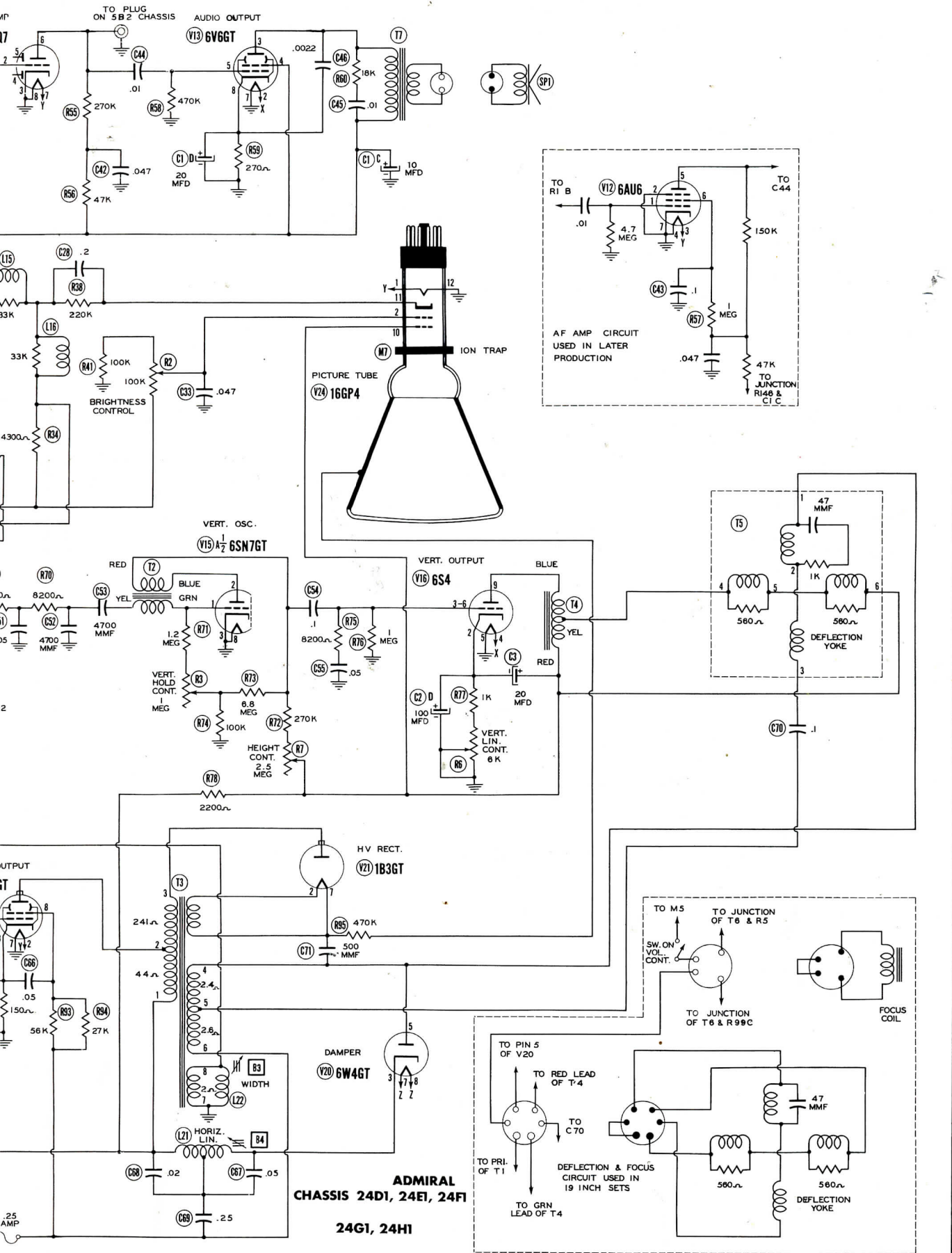
R9  
 1K

R9  
 6K

R9  
 270K

R9  
 1K



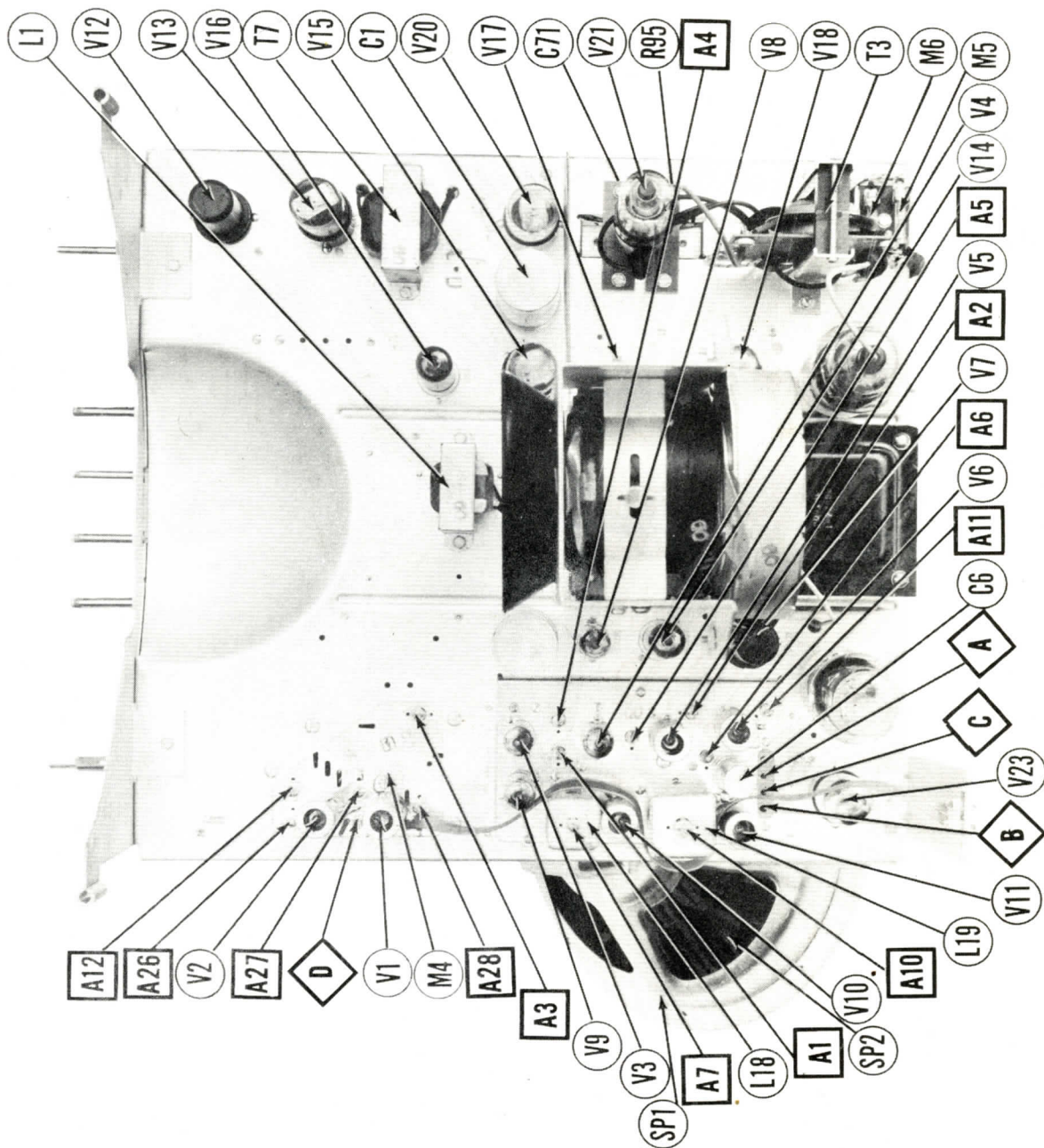


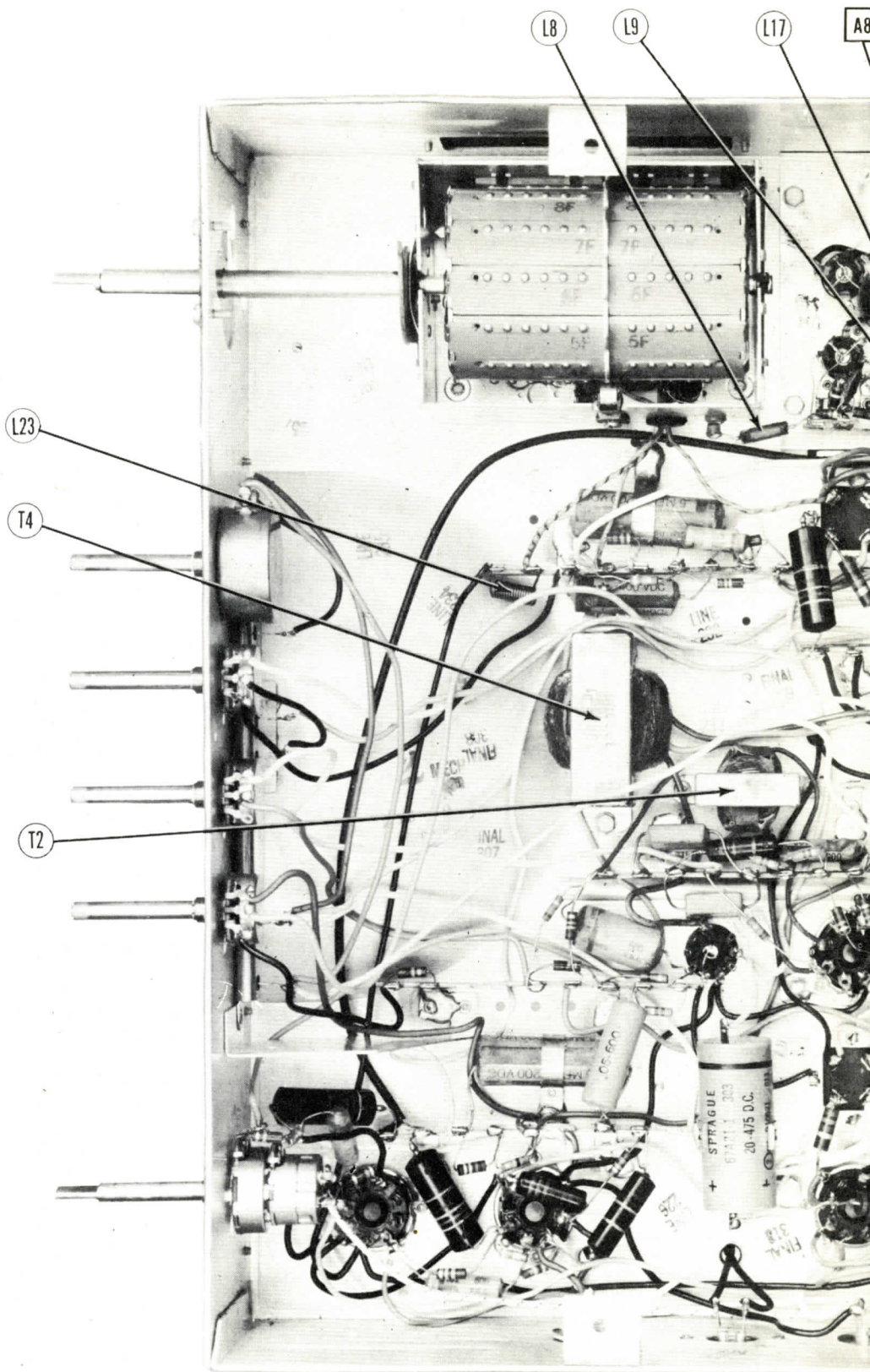
**ADMIRAL  
CHASSIS 24D1, 24E1, 24F1,  
24G1, 24H1**

**ADMIRAL  
CHASSIS 24D1, 24E1, 24F1, 24G1, 24H1**

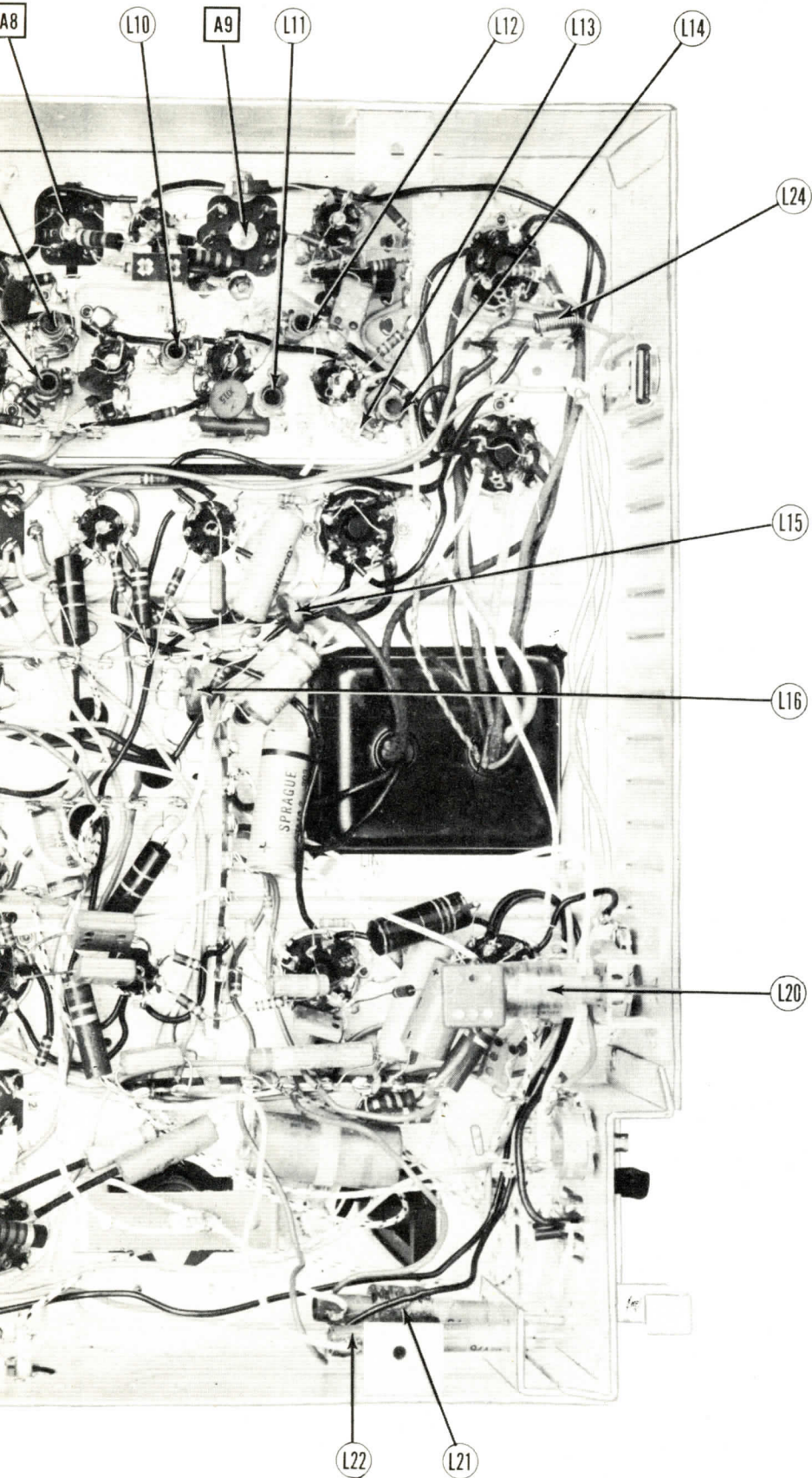
ADMIRAL  
CHASSIS 24D1, 24E1, 24F1, 24G1, 24H1

MAIN TOP SISSAHC

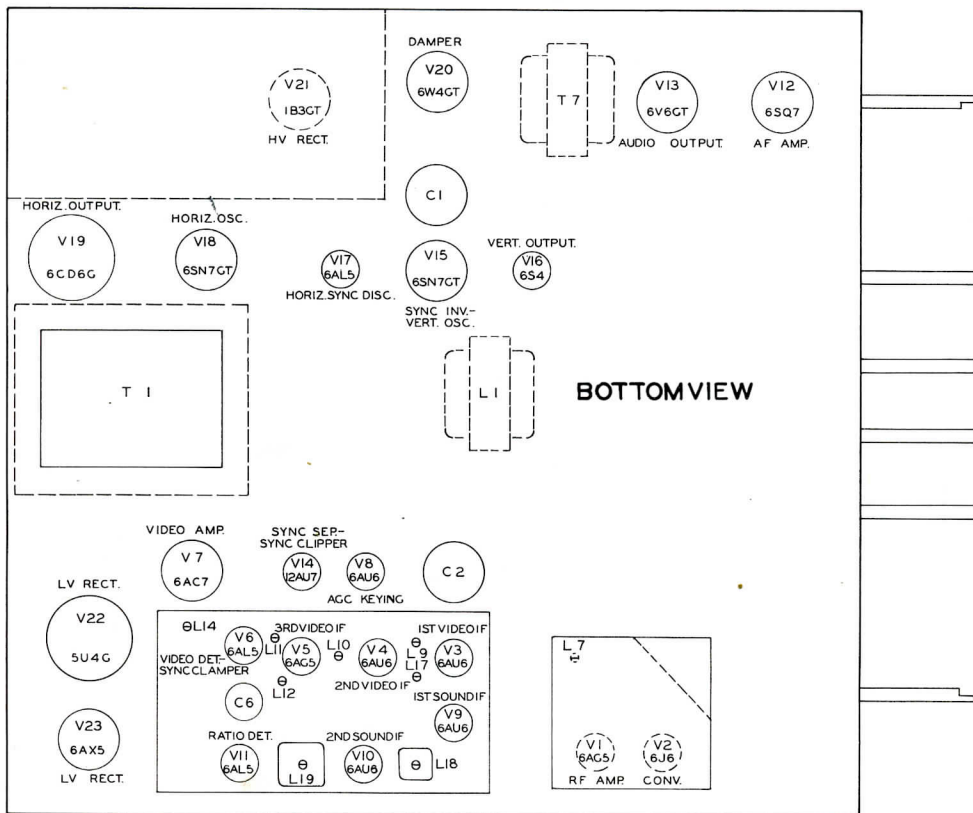
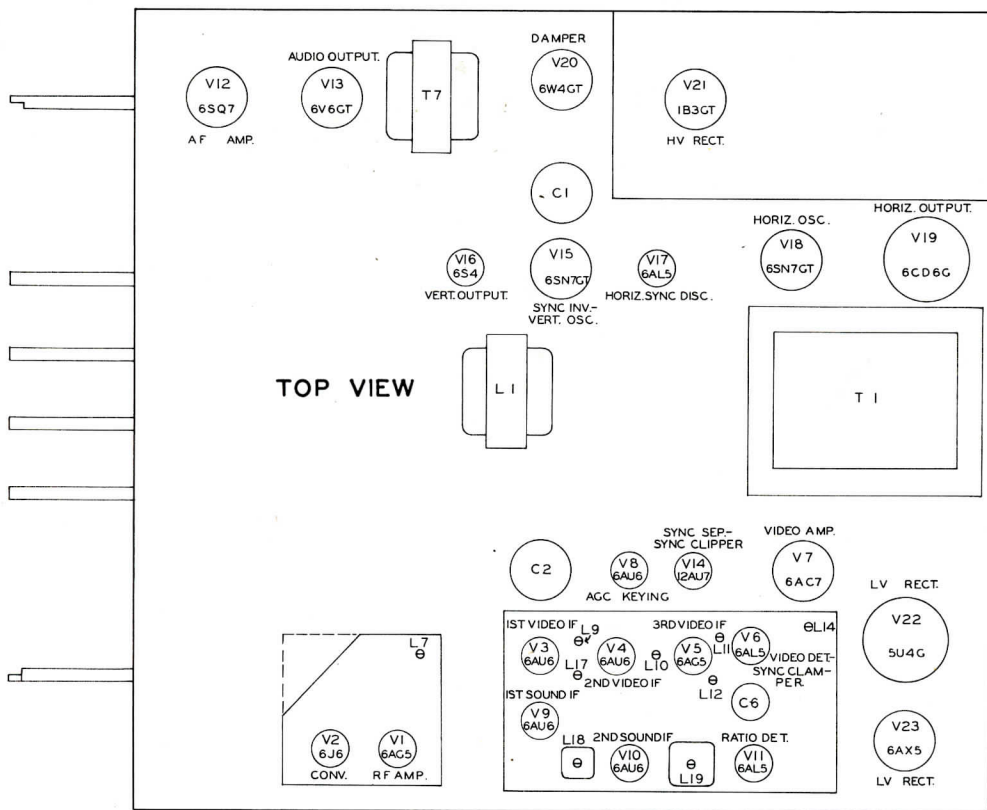




CHASSIS BOTTOM VIEW-TRANS., INDUCT



TOR AND ALIGNMENT IDENTIFICATION



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 (V18) from its socket.

### VIDEO IF ALIGNMENT

Remove the converter tube (V2) and replace it with a 6J6 which has pin 1 removed.  
Connect the negative lead of a 4.5 volt battery to the junction of R30 and R31, connect the positive lead to chassis.  
Turn the contrast control to the mid-position of its range.

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.	21. 25MC (Unmod.)	Any	DC Probe to Point $\text{A}$ Common to chassis.	A1, A2	Adjust for MINIMUM deflection.
2. Direct	"	22. 3MC	"	"	A3	Adjust for maximum deflection.
3. Direct	"	22MC	"	"	A4	"
4. Direct	"	25. 3MC	"	"	A5	"
5. Direct	"	23. 5MC	"	"	A6	"

### 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
6. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	24MC (10MC SWP)	21. 25MC 25. 75MC	Any	Vert. Amp. to Point $\text{A}$ $\text{A}$ . Low side to chassis.		Check for response curve similar to figure 1. If necessary retouch A3 thru A6 for optimum response.

### SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
7. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	21. 25MC (Unmod.)	Any	DC Probe to Point $\text{B}$ Common to chassis.	A7, A8, A9	Adjust for maximum deflection.
8. Direct	"	"	"	DC Probe to Point $\text{C}$ Common to Point $\text{B}$ .	A10	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
7. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	21. 25MC (450KC Sweep)	21. 25MC	Any	Vert. Amp. to Point $\text{B}$ $\text{B}$ . Low side to chassis.	A7, A8, A9	Disconnect stabilizer capacitor C6. Adjust for maximum amplitude and symmetry as per figure 2.
8. Direct	"	"	"	"	Vert. Amp. to Point $\text{C}$ $\text{C}$ . Low side to chassis.	A10	Reconnect capacitor C6. Adjust A10 so 21. 25MC occurs at center of crossover lines as per figure 3. Slightly retouch A9 for maximum amplitude and straightness of crossover lines.

### 4. 5MC TRAP ADJUSTMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
9. .01MFD	High side to Point A . Low side to chassis.	4. 5MC (Unmod.)	Any	RF Probe to pin 8 (plate) of 6AC7 (V7). Common to chassis.	All	Adjust for MINIMUM deflection.

### OSCILLATOR ALIGNMENT

Remove the dummy converter tube and replace the original 6J6 in its socket.  
Complete oscillator alignment may not be necessary.  
If the oscillator seems to be off frequency approximately the same amount for a majority of the channels it may be possible to correct them in one step using A12. It should be noted that this is an all channel oscillator circuit adjustment and should not be adjusted for any individual channel. If adjustment of A12 will not bring all channels well within the range of the fine tuning control, it will be necessary to adjust the individual channel oscillator adjustment for each channel that is off frequency. The individual channel oscillator adjustments are reached through a hole just to the right of the channel switch shaft.

The correct adjustment screw is accessible through this hole as the channel switch is turned to each channel.  
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
10. Two 120 $\Omega$ carbon res.	Across antenna terminals with 120 $\Omega$ in each lead.	215. 75MC (Unmod.)	13	DC Probe to Point $\text{C}$ Common to Point $\text{B}$ .	A13	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
		209. 75MC	12		A14	
		203. 75MC	11		A15	
		197. 75MC	10		A16	
		191. 75MC	9		A17	
		185. 75MC	8		A18	
		179. 75MC	7		A19	
		87. 75MC	6		A20	
		81. 75MC	5		A21	
		71. 75MC	4		A22	
		65. 75MC	3		A23	
		59. 75MC	2		A24	

# ALIGNMENT INSTRUCTIONS (CONT.)

## RF AND MIXER ALIGNMENT

The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
11. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	207MC (10MC SWP)	205.25MC 209.75MC	12	Vert. Amp. thru 10KΩ to Point Ⓧ. Low side to chassis.	A25, A26, A27	Adjust for response curve similar to figure 4 with marker above 80%.
12. "	"	213MC (10MC SWP)	211.25MC 215.75MC	13	"		Check all channels for response curve similar to figure 4. If markers fall below 70% on any channel, make slight adjustment of A25, A26 and A27 with channel selector set for that channel. Recheck all channels to see that they have not been seriously effected.
		201MC (10MC SWP)	199.25MC 203.75MC	11			
		195MC (10MC SWP)	195.25MC 197.75MC	10			
		189MC (10MC SWP)	187.25MC 191.75MC	9			
		183MC (10MC SWP)	181.25MC 187.75MC	8			
		177MC (10MC SWP)	175.25 179.75MC	7			
		85MC (10MC SWP)	83.25MC 87.75MC	6			
		79MC (10MC SWP)	77.25MC 81.75MC	5			
		69MC (10MC SWP)	67.25MC 71.75MC	4			
		63MC (10MC SWP)	61.25MC 65.75MC	3			
		57MC (10MC SWP)	55.25MC 59.75MC	2			

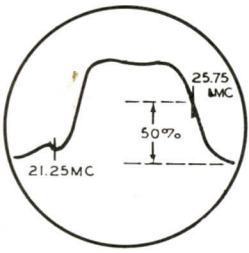


FIG. 1

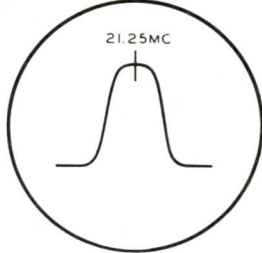


FIG. 2

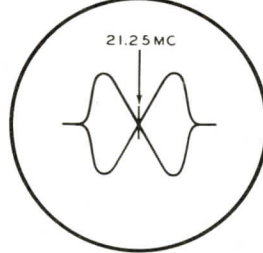


FIG. 3

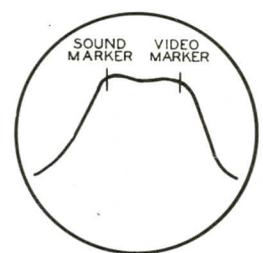
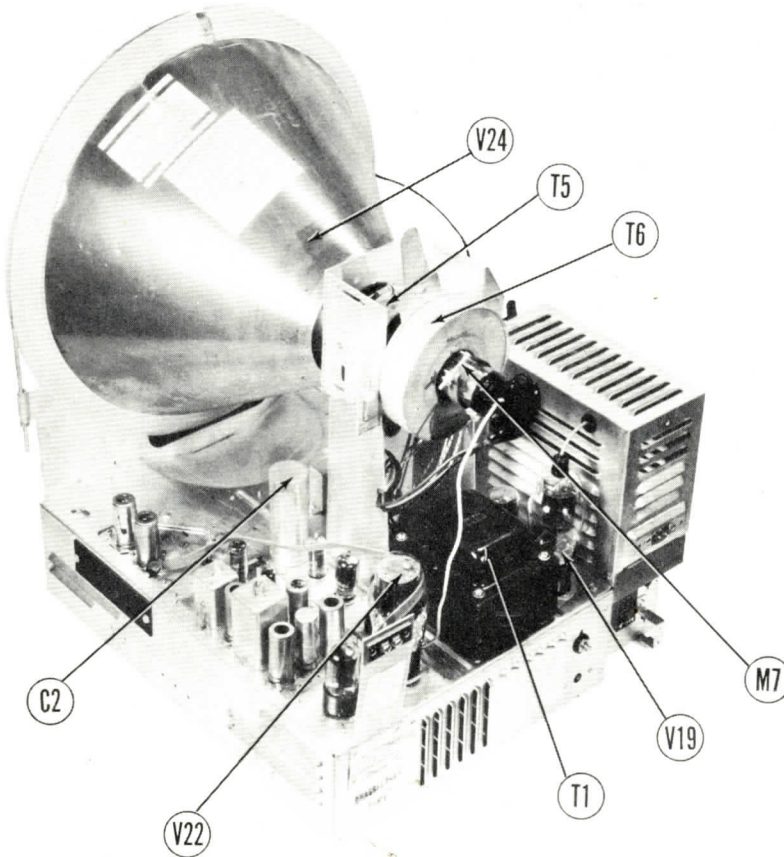


FIG. 4



CHASSIS-TOP VIEW

ADMIRAL  
CHASSIS 24DI, 24EI, 24FI, 24GI, 24HI

# 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	-0.5VDC	0V	6.3VAC	0V	120VDC	120VDC	0V		
V 2	6T6	160VDC	160VDC	6.3VAC	0V	-2.5VDC	±6.1VDC	0V		
V 3	6AU6	-0.4VDC	0V	6.3VAC	0V	145VDC	145VDC	0.5VDC		
V 4	6AU6	-0.3VDC	0V	6.3VAC	0V	145VDC	145VDC	0.5VDC		
V 5	6AG5	0V	1.3VDC	6.3VAC	0V	145VDC	145VDC	1.3VDC		
V 6	6AL5	0V	-18VDC	6.3VAC	0V	0V	0V	-0.5VDC		
V 7	6AC7	0V	0V	0V	0V	43VDC	6.3VAC	145VDC		
V 8	6AU6	1.90VDC	1.75VDC	6.3VAC	0V	140VDC	140VDC	1.75VDC		
V 9	6AU6	0V	0V	6.3VAC	0V	165VDC	165VDC	1.2VDC		
V 10	6AU6	-0.4VDC	0V	6.3VAC	0V	240VDC	50VDC	0V		
V 11	6AL5	0.4VDC	0V	4.1VAC	0V	-9VDC	0V	0V		
V 12	6SQ7	0V	-0.5VDC	0V	0V	90VDC	6.3VDC	0V		
V 13	6V6GT	0V	6.3VAC	235VDC	250VDC	0V	220VDC	0V	12VDC	
V 14	12AU7	370VDC	140VDC	160VDC	6.3VAC	6.3VAC	70VDC	-1.1VDC	0V	0V
V 15	6SN7GT	15VDC	100VDC	0V	-18VDC	380VDC	1.2VDC	6.3VAC	0V	
V 16	6S4	Inf.	20VDC	0V	6.3VAC	0V	0V	0V	0V	*
V 17	6AL5	5.7VDC	-8VDC	0V	6.3VAC	0V	0V	0V		
V 18	6SN7GT	2VDC	320VDC	14VDC	-3.5VDC	130VDC	14VDC	6.3VAC	0V	TOP CAP
V 19	6CD6G	14VDC	6.3VAC	14VDC	5VAC	-3.5VDC	150VDC	0V	135VDC	*
V 20	6W4GT	400VDC	0V	440VDC	440VDC	350VDC	0V	1		
V 21	1B3GT	* DO NOT MEASURE.								
V 22	5U4G	0V	370VDC	6.3VAC	330VAC	0V	330VAC	6.3VAC	370VDC	
V 23	6AX5	0V	1	230VAC	0V	230VAC	0V	1	235VDC	
V 24	16CP4	6.3VAC	1.15VDC	1200VDC	1.90VDC	0V				

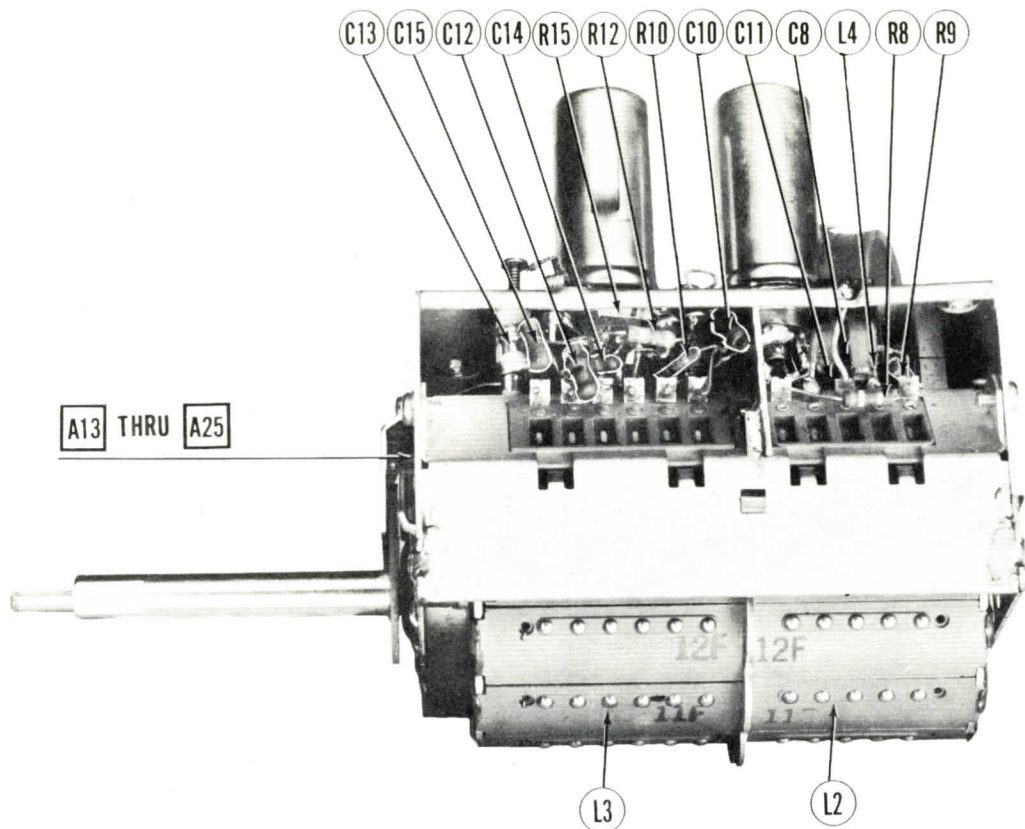
§ TAKEN WITH VACUUM TUBE VOLTMETER.  
 † MEASURED FROM PIN 8 OF V23.  
 \* DO NOT MEASURE.  
 ‡ 6.3VAC MEASURED ACROSS FILAMENTS.

RESISTANCE READINGS

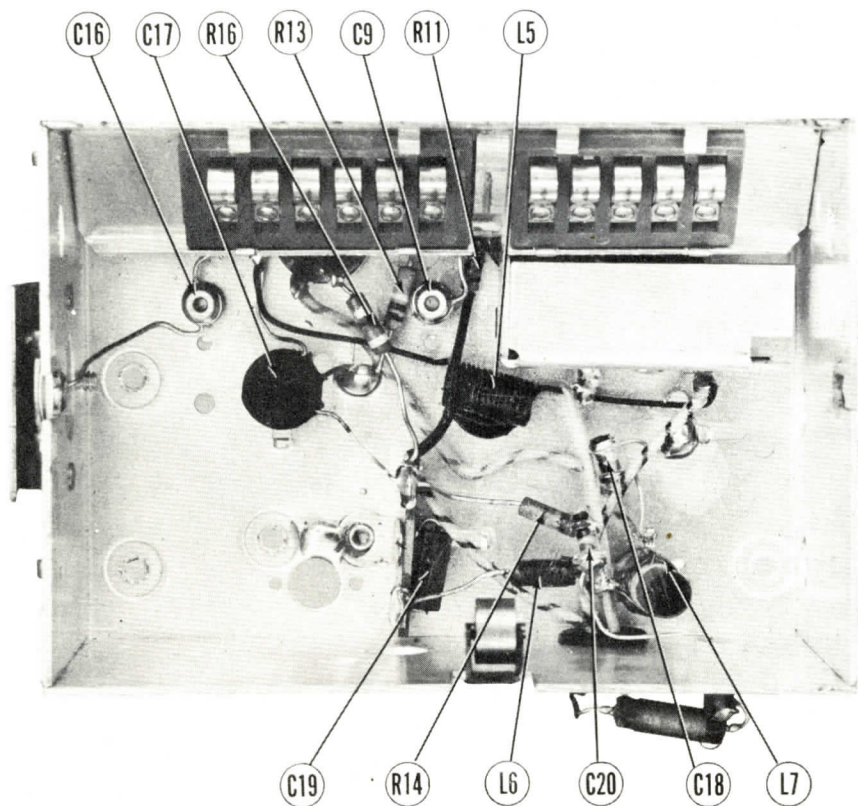
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	175KΩ	0Ω	.1Ω	0Ω	1.3.2KΩ	1.3.2KΩ	0Ω		
V 2	6T6	15.7KΩ	118KΩ	.1Ω	0Ω	225KΩ	10KΩ	0Ω		
V 3	6AU6	105KΩ	0Ω	.1Ω	0Ω	1.2KΩ	1.2KΩ	39Ω		
V 4	6AU6	100KΩ	0Ω	.1Ω	0Ω	1.2KΩ	1.2KΩ	39Ω		
V 5	6AG5	.5Ω	100Ω	.1Ω	0Ω	1.2KΩ	1.2KΩ	100Ω		
V 6	6AL5	.5Ω	4.7 Meg.	.1Ω	0Ω	0Ω	0Ω	3.3KΩ		
V 7	6AC7	0Ω	0Ω	0Ω	3.3KΩ	0Ω	15KΩ	.1Ω	15.3KΩ	
V 8	6AU6	19KΩ	1100Ω	.1Ω	0Ω	220KΩ	#10KΩ	1100Ω		
V 9	6AU6	.1Ω	0Ω	.1Ω	0Ω	#6.4KΩ	#6.4KΩ	82Ω		
V 10	6AU6	39KΩ	0Ω	.1Ω	0Ω	#2.7KΩ	15KΩ	0Ω		
V 11	6AL5	Inf.	Inf.	2.5Ω	0Ω	30KΩ	0Ω	820Ω		
V 12	6SQ7	0Ω	4.7 Meg.	0Ω	Inf.	Inf.	#320KΩ	.1Ω	0Ω	
V 13	6V6GT	Inf.	.1Ω	#2KΩ	#1.7KΩ	470KΩ	65KΩ	0Ω	270Ω	
V 14	12AU7	#18KΩ	1105KΩ	300KΩ	.1Ω	.1Ω	1.23KΩ	2.2 Meg.	0Ω	0Ω
V 15	6SN7GT	2.3 Meg.	#2.70KΩ	0Ω	4.7 Meg.	#3.5KΩ	3.3KΩ	.1Ω	0Ω	
V 16	6S4	Inf.	1000Ω	1 Meg.	.1Ω	0Ω	1 Meg.	Inf.	Inf.	#3.5KΩ
V 17	6AL5	4.8 Meg.	4.8 Meg.	0Ω	.1Ω	15KΩ	0Ω	15KΩ		
V 18	6SN7GT	5.2 Meg.	#18KΩ	1.5KΩ	107KΩ	#230KΩ	1.5KΩ	.1Ω	0Ω	TOP CAP
V 19	6CD6G	150Ω	.1Ω	150Ω	8.2KΩ	470KΩ	#250KΩ	0Ω	#20KΩ	40Ω
V 20	6W4GT	#2.2KΩ	Inf.	#0Ω	#11Ω	#70Ω	Inf.	315KΩ	315KΩ	TOP CAP
V 21	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	#500Ω
V 22	5U4G	Inf.	18KΩ	.1Ω	19Ω	Inf.	19Ω	.1Ω	18KΩ	
V 23	6AX5	Inf.	315KΩ	12Ω	Inf.	12Ω	Inf.	315KΩ	30KΩ	
V 24	16CP4	.1Ω	55KΩ	#2.2KΩ	#225KΩ	0Ω	Inf.	Inf.	Inf.	

† MEASURED FROM PIN 8 OF V23.  
 # MEASURED FROM PIN 2 OF V22.  
 \* MEASURED FROM PIN 3 OF V20.

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.



RF TUNER-RIGHT SIDE

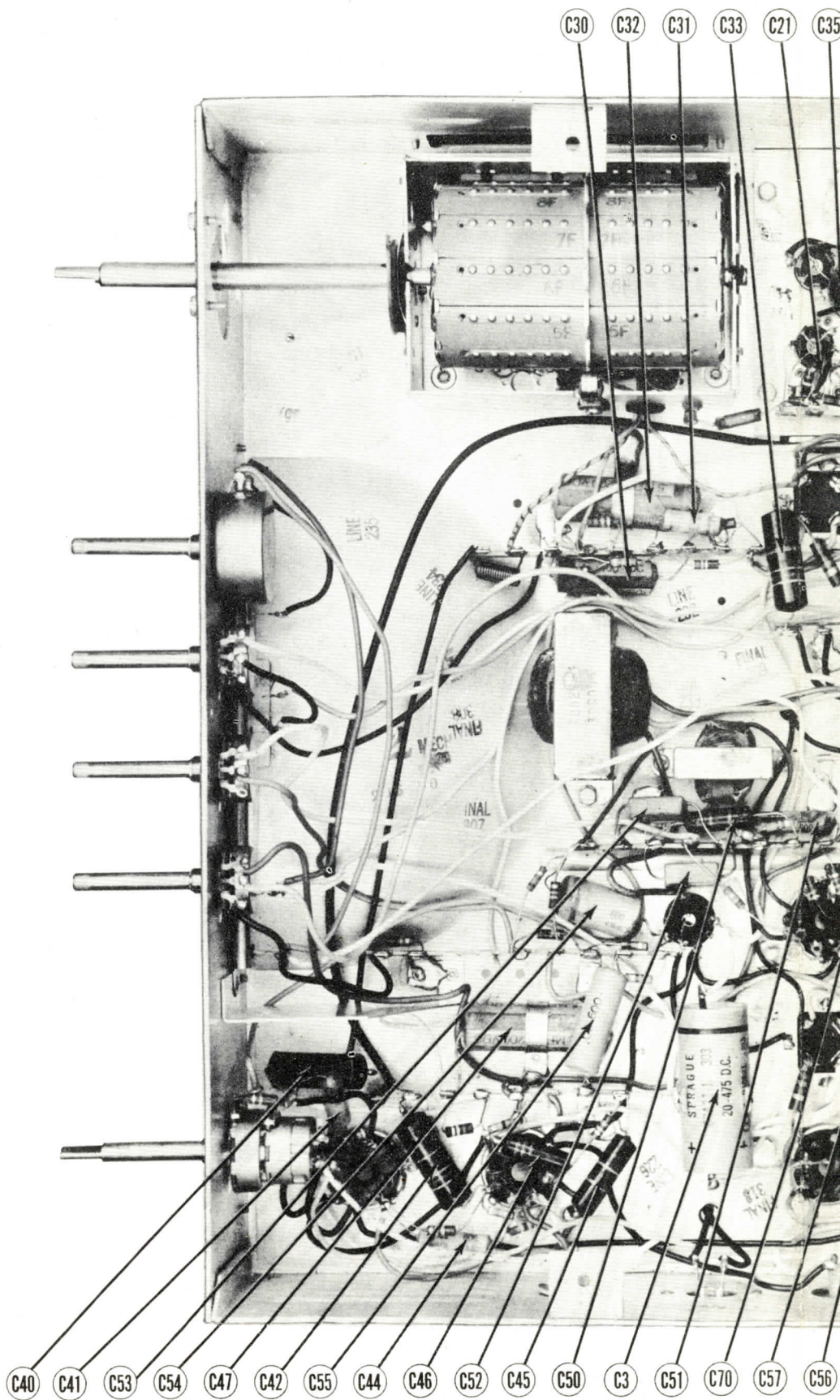


RF TUNER-BOTTOM VIEW

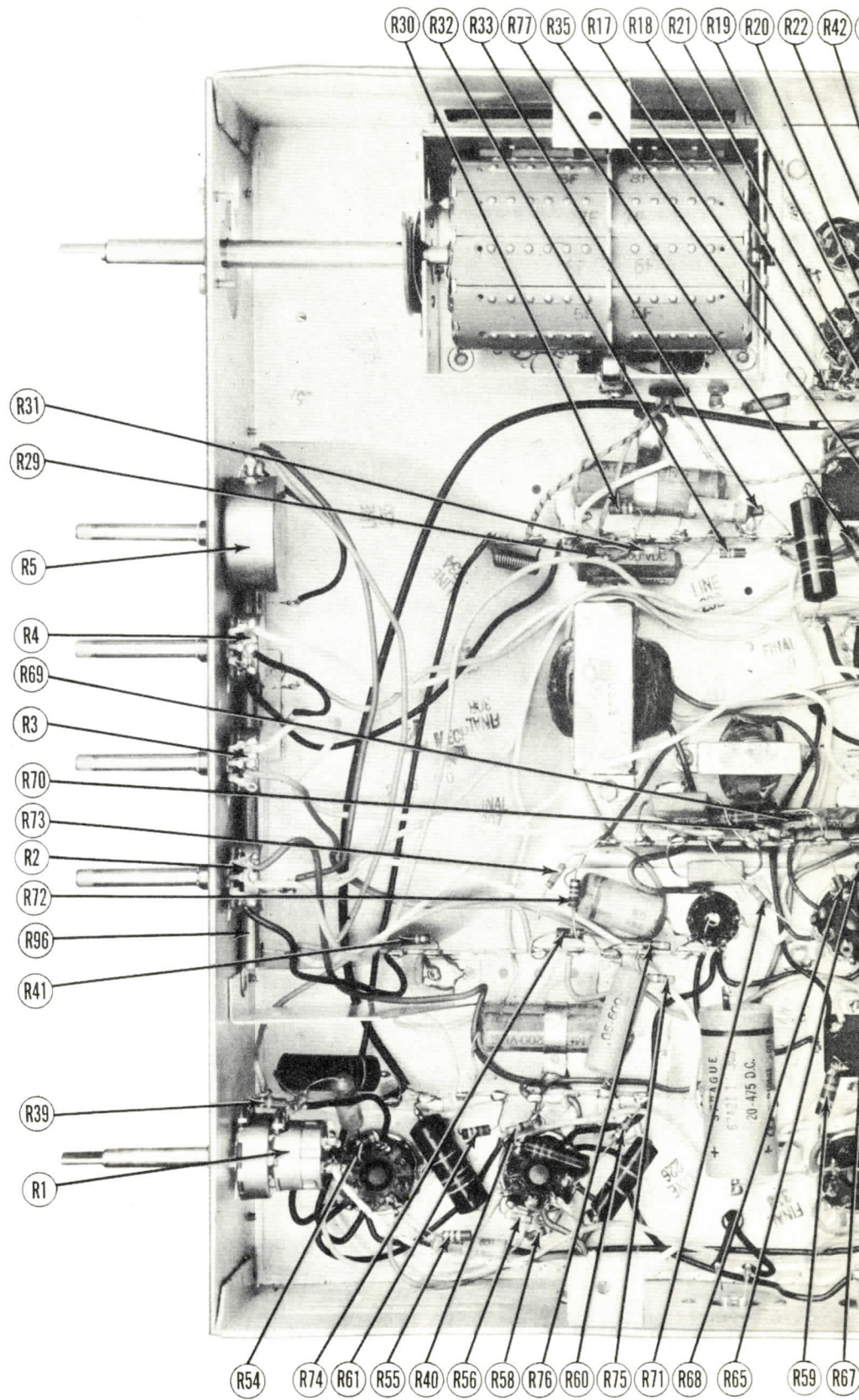
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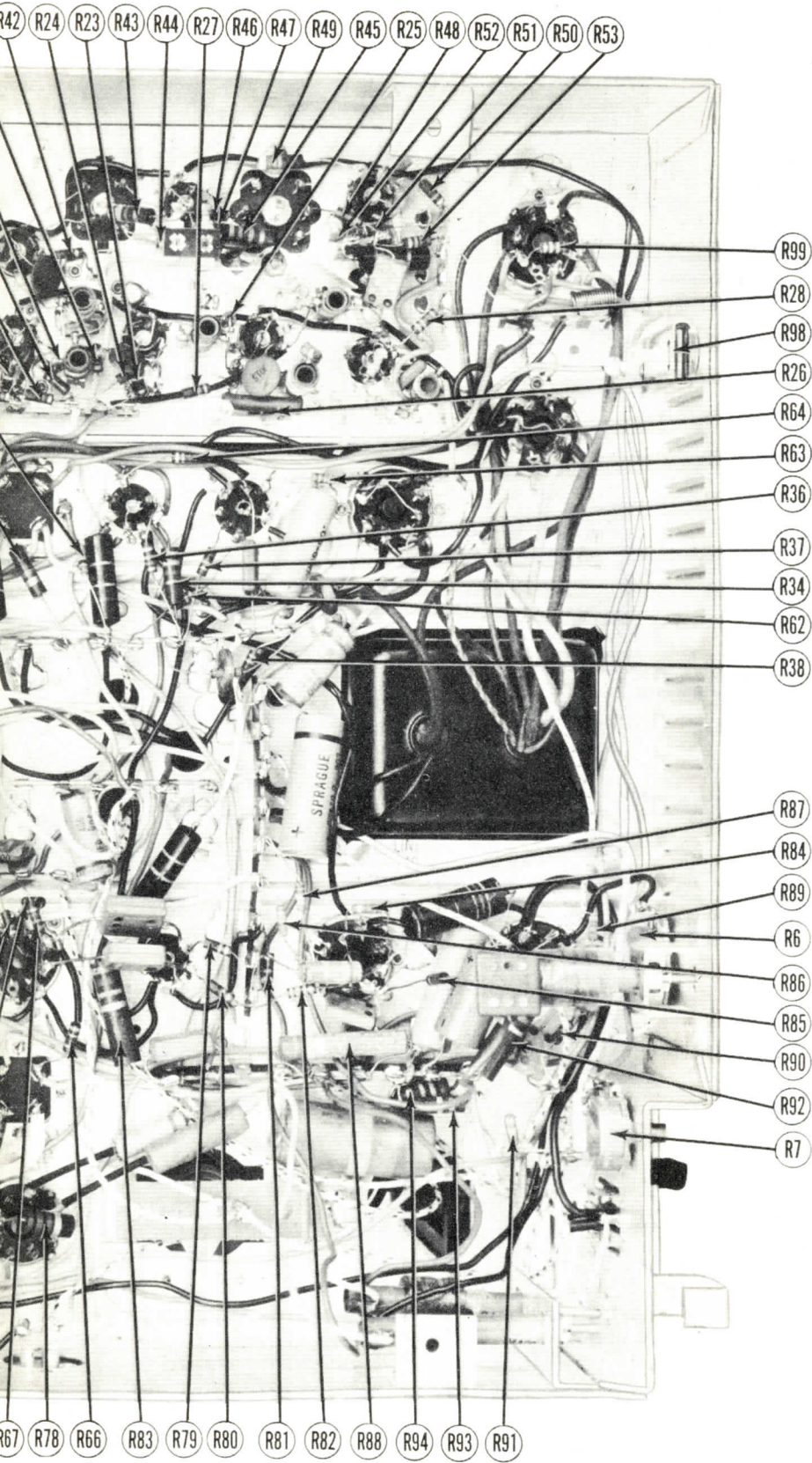
**PACITOR IDENTIFICATION**



CHASSIS BOTTOM VIEW-CA

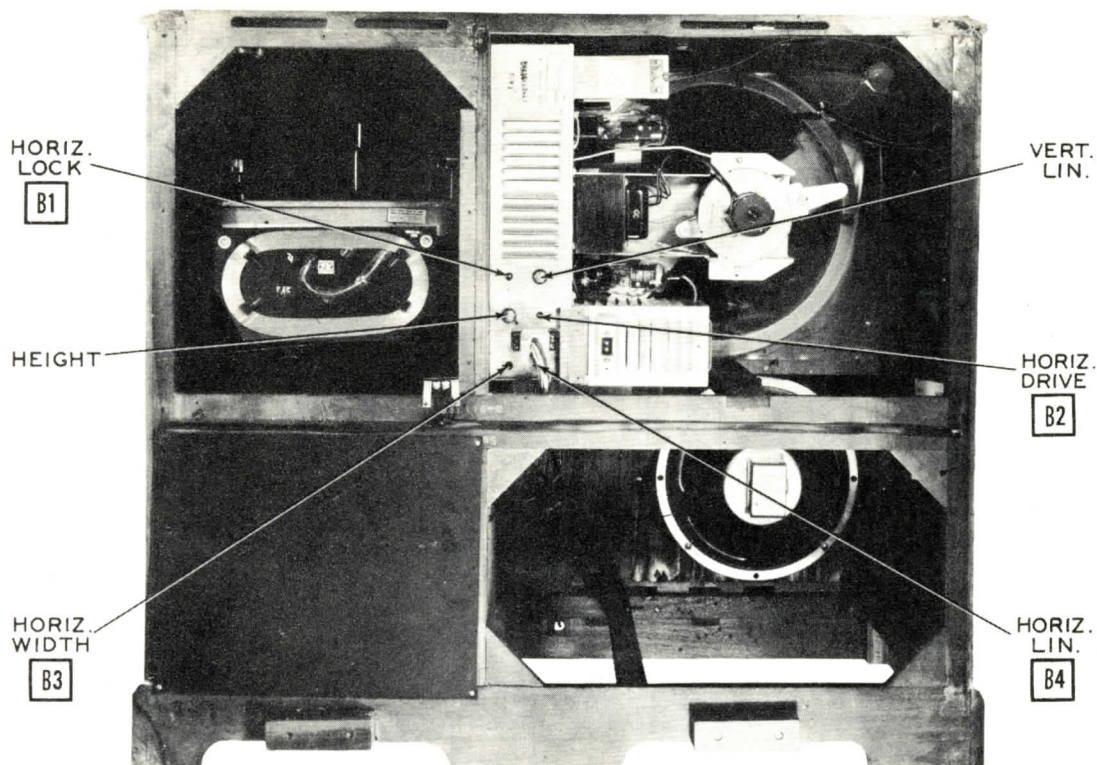


CHASSIS BOTTOM VIEW-RE



RESISTOR IDENTIFICATION





## 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) for best compromise between brightness and linearity. If vertical white bars appear in the picture, adjust B2 until the bars just disappear.

Adjust the width slug (B3) until the picture is of proper size horizontally.

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

Slight readjustment of B2 may be necessary to obtain optimum linearity.

## DISASSEMBLY INSTRUCTIONS

### TV CHASSIS

1. Remove four push-on type control knobs from front of set.
2. Remove six phillips and 1 hex head screw holding rear cover. Remove cover.
3. Loosen 1/4" hex head screw holding radio plug brace. Remove plug.
4. Disconnect built-in antenna leads at TV chassis terminal.
5. Remove speaker plug from lower side of chassis.
6. Remove phono and pilot light plugs from lower side of chassis.
7. Remove four 7/16" hex head bolts holding chassis to vertical mounting board. Remove chassis.
8. Remove four 11/32" hex nuts holding speaker. Remove speaker.

### RADIO CHASSIS

1. Loosen power cable clamps on cabinet and radio-phono unit. Free cables.
2. Remove two screws holding loop antenna and unsolder both antenna leads. Remove loop.
3. Disconnect FM antenna leads at rear cabinet terminal. Remove two phillips head screws holding terminal.
4. Remove seven phillips head screws at sides and on underside of front radio housing.
5. Pull the chassis forward until you can reach in and disconnect phono pick-up and power plugs. Remove chassis.
6. Remove four push-on type control knobs from front of radio chassis.
7. Remove five phillips head screws on bottom of chassis holding front dial cover. Remove cover.

TUBES (SYLVANIA or Equivalent)

CAPACITOR

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		ADMIRAL PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6AG5	6AG5	7BD	Used in late 24D1, 24E1, 24F1, 24G1, and all 24HI chassis productions.
V2	Converter	6J6	6J6	7BF	
V3	1st Video IF	6AU6	6AU6	7BK	
V4	2nd Video IF	6AU6	6AU6	7BK	
V5	3rd Video IF	6AG5	6AG5	7BD	
V6	Video Det. -Sync. Clamper	6AL5	6AL5	6BT	
V7	Video Amp.	6AC7	6AC7	8N	
V8	AGC Keying	6AU6	6AU6	7BK	
V9	1st Sound IF	6AU6	6AU6	7BK	
V10	2nd Sound IF	6AU6	6AU6	7BK	
V11	Ratio Det.	6AL5	6AL5	6BT	
V12A	AF Amp.	6SQ7	6SQ7	8Q	
V12B	AF Amp.	6AU6	6AU6	7BK	
V13	Audio Output	6V6GT	6V6GT	7AC	
V14	Sync. Sep. -Sync. Clipper	12AU7	12AU7	9A	
V15	Vert. Osc. -Sync. Inv.	6SN7GT	6SN7GT	8BD	
V16	Vert. Output	6S4	6S4	9AC	
V17	Hor. Sync. Disc.	6AL5	6AL5	6BT	
V18	Hor. Osc.	6SN7GT	6SN7GT	8BD	
V19	Hor. Output	6CD6G	6CD6G	5BT	
V20	Damper	6W4GT	6W4GT	4CG	
V21	HV Rect.	1B3GT	1B3GT	3C	
V22	LV Rect.	5U4G	5U4G	5T	
V23	LV Rect.	6AX5	6AX5	6S	
V24A	Picture Tube	16P4	16P4	12D	
V24B	Picture Tube	19AP4	19AP4	12D	
V24C	Picture Tube	16TP4 or 16RP4	16TP4 or 16RP4	12D	

ITEM No.	RATING		REPLACEMENT DATA		
	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALLAB PART No.
C57	1000	600	65B21-102	1467-001	D6-102
C58	.01	500	64B8-13	P688-01	D6-103
C59	.005	600	64B8-12	P688-005	D6-502
C60	.047	600	64B8-9	P688-047	
C61	3900	500		1464-004	
C62	330	500	65B21-331	1469-00035	D6-331
C63	100	500	65B22-101	1468-0001	D6-101
C64	330	500	65B21-331	1469-00035	D6-331
C65	270	500	65B21-271	1468-00025	D6-271
C66	.05	600	64B5-7	P688-05	
C67	.05	200	65A2-8	P288-05	
C68	.02	400	64A2-9	P488-02	
C69	.25	400	64B6-3	P488-25	
C70	1	400	64A2-10	P488-1	
C71	500	20000	65B18-4		TV3-502
C72	.01	600	64B8-13	P688-01	D6-103

† Used in models using 6AU6 audio amplifier.  
 \* Models using 6AU6 audio amplifier use .02MFD in this application.  
 ‡ Sets with rectangular picture tube use .22MFD in this application.  
 § Late sets use condenser with threaded stud at both ends. MFC

CONTR

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	CLAROSTAR PART No.
RIA	25KΩ	None	75B11-14	Concentrikrit	
B	250KΩ			B11-120 *	
C	Shaft End			B13-130 *	
D	Switch			E-202 *	
R2A	100KΩ	None	75A13-12	Q11-128	M-49-S
B	Shaft		Not Req.	Not Req.	Not Req.
R3A	1 Meg.	None	75A13-14	Q11-137	M-61-S
B	Shaft		Not Req.	Not Req.	Not Req.
R4A	25KΩ	None	75A13-13	Q11-120	M-40-S
B	Shaft		Not Req.	Not Req.	Not Req.
R5	6000Ω	None	75A13-15	Q11-115	M-23-S
R6A	6000Ω		75A13-1	Not Req.	Not Req.
R7A	2.5 Meg.	None	75A13-3	Q11-239	M-84-S
B	Shaft		Not Req.	Not Req.	Not Req.

\* Additional parts to be used with "Concentrikrit".

RESIS

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 AND INSTALLATION NOTES
	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C1A	40	450	67C15-13	AFH862J4A		UP11DJ1194		TVL-415
B	40	450						
C	10	450						
D	20	25						
C2A	100	250	67C15-14	AFH2082F20B		UP11DJ1171		TVL-414
B	40	250						
C	10	250						
D	100	50						
C3	20	475	67A21-1	PRS500/15		BR2050A		TVA-121
C4	4	450	67A19-2	PRS450/4		BR445		TVA-104
C5	4	25	67A4-3	PRS150/4		BR550		TVA-50
C6	4	50	67B16-1	PRS150/4		BR550		TVA-13
C7	5	98A45-22		S15DNPO	D2-4.7		NPOK-5	
C8	5-3	98A45-87			829-3			
C9	5-3	98A45-23			829-3			
C10	120	98A45-25		GPI20K	D6-121		GPIK-120	
C11	1000	98A45-24		GPI1000M	D6-102		GP2L-001	
C12	100	98A45-26		S1100KN750	DN-100		N750L-100	
C13	5-3	98A45-23			829-3			
C14	20	98A45-27		S120JNPO	D2-20		NPOK-20	
C15	10	98A45-79		S110DN750	DN-10		N750K-10	
C16	5-3	98A45-23			829-3			
C17A	1000	98A45-24		GPI1000M	D6-102		882-2 x 0015	29C7
B	1000			GPI1000M	D6-102			
C18	10	98A45-64		CNI0DNPO	D2-10		NPOK-10	
C19	72	300	98A45-65					
C20	300	300	98A45-66					
C21A	1500		65A17-2					
B	1500			GP300M	D6-301		GP2K-300	
C22A	1500		65A17-2					
B	1500			GPI500M	D6-152	1W5D1 5	882-2 x 0015	29C6
C23	120	300	65B1-10		D2-120			
C24	250		65B6-21		GP250K	D6-251	5W5T25	GP2K-250
C25	1500		65A10-4		GPI500M	D6-152	1W5D15	1FM-215
C26	10		65B6-69		GPI10K	D6-100	5W5Q1	MS-41
C27	120	300	65B1-10			D2-120		
C28	2	200	64B5-29		P488-22		GT4P2	TC-2
C29	1000	500	65B21-102		1467-001	D6-102	1W5D1	GP2L-001
C30	.1	400	64B8-26		P488-1		PTE4P1	TM-1
C31	.005	600	64B5-12		P688-005	D6-502	PTE6D5	811-005
C32	.5	200	64B6-27		P288-5		GT2P5	TC-5
C33	.047	600	64B8-9		P688-047		PTE6S5	TM-15
C34	120	300	65B1-10			D2-120		
C35A	1500		65A17-2					
B	1500			GPI500M	D6-152	1W5D15	882-2 x 0015	29C6
C36	100		65B6-19		GPI1000M	D6-101	5W5T1	1FM-31
C37A	1500		65A17-2		GPI500M	D6-152	1W5D15	882-2 x 0015
B	1500			GPI500M	D6-152	1W5D15		29C6
C38	330	500	65B21-331		1469-00035	D6-331	5W5T3	GP2K-331
C39	.0022	600	64B8-17		P688-0022	D6-222	PTE6D2	GP2M-0022
C40	.047	600	64B8-13		P688-047			
C41	.01	600	64B8-9		P688-01	D6-103	PTE6S5	811-01
C42	.047	600	64B8-7		P688-047		PTE6S5	
C43	.1	600	64B8-7		P688-1		PTE6P1	TM-1
C44	.01	600	64B8-13		P688-01	D6-103	PTE6S1	811-01
C45	.01	600	64B8-13		P688-01	D6-103	PTE6S1	811-01
C46	.0022	1000	64A2-11		P1088-0022		PTE16D2	MB-22
C47	.5	200	64B6-27		P288-5		GT2P5	TC-5
C48	.05	600	64B5-7		PTE68-05		PTE6S5	TM-15
C49	120	500	65B21-121		1468-00015	D6-121	5W5T15	GP2K-120
C50	.0022	600	64B8-17		P688-0022	D6-222	PTE6D2	GP2M-0022
C51	.005	600	64B5-12		P688-005	D6-502	PTE6D5	811-005
C52	4700	500	65B21-472		1467-005	D6-472	1D5D5	GP2M-0047
C53	4700	500	65B21-472		1467-005	D6-472	1D5D5	GP2M-0047
C54	.1	600	64B8-7		P688-1		PTE6P1	TM-1
C55	.05	600	64B5-7		P688-05		PTE6S5	TM-15
C56	1000	500	65B21-102		1467-001	D6-102	1W5D1	GP2L-001

ITEM No.	RATING		REPLACEMENT DATA	
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.
R8	3900Ω	None	98A45-16	BTS-3900
R9	47KΩ 20%		98A45-17	BTS-47K
R10	10KΩ		98A45-18	BTS-10K
R11	2200Ω 20%		98A45-19	BTS-2200
R12	4700Ω		98A45-20	BTS-4700
R13	220KΩ 20%		98A45-21	BTS-220K
R14	15KΩ 20%		98A45-67	BTS-15K
R15	10KΩ		98A45-18	BTS-10K
R16	4700Ω		98A45-20	BTS-4700
R17	5600Ω		60B8-562	
R18	39Ω	60B8-390		
R19	1000Ω	60B8-102	BTS-1000	
R20	12KΩ	60B8-123		
R21	1000Ω	60B8-102	BTS-1000	
R22	1000Ω	60B8-102	BTS-1000	
R23	39Ω	60B8-390		
R24	1000Ω	60B8-102	BTS-1000	
R25	33KΩ	60B8-333		
R26	100Ω	60B8-101		
R27	1000Ω	60B8-102	BTS-1000	
R28	3300Ω	60B8-332	BTS-3300	
R29	100KΩ	60B8-104	BTS-100K	
R30	27KΩ	60B8-273	BTS-27K	
R31	47KΩ	60B8-473	BTS-47K	
R32	47KΩ	60B8-473	BTS-47K	
R33	22KΩ	60B8-223	BTS-22K	
R34	4300Ω 5%	60B14-432		
R35	10KΩ	60B8-103	BTS-10K	
R36	3300Ω	60B8-332	BTS-3300	
R37	100KΩ	60B8-104	BTS-100K	
R38	220KΩ	60B8-224	BTS-220K	
R39	15KΩ	60B8-153	BTS-15K	
R40	10KΩ	60B8-103	BTS-10K	
R41	100KΩ	60B8-104	BTS-100K	
R42	82Ω	60B8-820		
R43	4700Ω	60B14-472	BTA-4700	
R44	39KΩ	60B8-393		
R45	47KΩ	60B14-473		
R46	1000Ω	60B8-102	BTS-1000	
R47	15KΩ	60B8-153	BTS-15K	
R48	150Ω	60B8-151		
R49	4.7Ω	60B28-11	BW-1/4-4.7	
R50	15KΩ	60B8-153	BTS-15K</	

# PARTS LIST AND DESCRIPTIONS

## CAPACITORS (CONT.)

NOTES

24D1, 24E1, 24F1, 24G1, and all 24H1  
functions.

ITEM No.	RATING		REPLACEMENT DATA						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C57	1000	500	65B21-102	1467-001	D6-102	1W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling Integrator Net. AFC Filter AFC Filter Fixed Trimmer Hor. MV Feedback Hor. MC Feedback Hor. Discharge Hor. Sweep Coupling Hor. Output Screen Byp. Damper Filter Damper Filter Damper Filter Hor. Sweep Coup. † HV Filter AGC Keying Screen Byp.
C58	.01	600	64B8-13	P688-01	D6-103	PTE6S1	811-01	TM-11	
C59	.005	600	64B5-12	P688-005	D6-502	PTE6D5	811-005	TM-25	
C60	.047	600	64B8-9	P688-047		PTE6S5		TM-15	
C61	3900	500		1464-004		1DR5D4		MS-24	
C62	300	500	65B21-331	1469-00035	D6-331	SR5T3	GP2K-330	MS-33	
C63	130	500	65B22-101	1468-0001	D6-101	SW5T1	GPIK-100	1FM-31	
C64	330	500	65B21-331	1469-00035	D6-331	SR5T3	GP2K-330	MS-33	
C65	270	500	65B21-271	1468-00025	D6-271	SW5T25	GP2K-270	1FM-325	
C66	.05	600	64B5-7	P688-05		PTE6S5		TM-15	
C67	.05	200	65A2-8	P288-05		PTEA5		TM-15	
C68	.02	400	64A2-9	P488-02		PTEA52		TM-12	
C69	.25	400	64B6-3	P488-25		GT4P25		TC-2	
C70	1	400	64A2-10	P488-1		PTEA4P1		TM-1	
C71	500	20000	65B18-4	‡	TV3-502			TM-1	
C72	.01	600	64B8-13	P688-01	D6-103	PTE6S1	811-01	TM-11	

† Used in models using 6AU6 audio amplifier.  
 ‡ Models using 6AU6 audio amplifier use .02MFD in this application. MFGR'S Part No. 64B8-11.  
 † Sets with rectangular picture tube use .22MFD in this application. MFGR'S Part No. 64B9-24.  
 ‡ Late sets use condenser with threaded stud at both ends. MFGR'S Part No. 65B18-5.

## CONTROLS

Notes 24F1, 24G1 only.  
 Note 24H1 only.

Electrolytic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
RIA	25KΩ		75B11-14	Concentrikrit B11-120 *			Contrast control-front Volume control-rear Attach per instructions in "Concentrikrit". Attach per instructions in "Concentrikrit". Brightness control Attach to R2A per instructions Vert. hold control Attach to R3A per instructions Horiz. hold control Attach to R4A per instructions Focus control-Wire Wound Vert. linearity control Attach to R6A per instructions Height control Attach to R7A per instructions
B	250KΩ			B13-130 *		SBB-616-S	
C	Shaft End			E-202 *			
D	Switch			76-2 *			
R2A	100KΩ		75A13-12	Q11-128	M-49-S	AN-40	Attach to R2A per instructions Vert. hold control Attach to R3A per instructions Horiz. hold control Attach to R4A per instructions Focus control-Wire Wound Vert. linearity control Attach to R6A per instructions Height control Attach to R7A per instructions
B	Shaft		Not Req.	Not Req.	Not Req.	AK-4	
R3A	1 Meg.		75A13-14	Q11-137	M-61-S	AN-69	
B	Shaft		Not Req.	Not Req.	Not Req.	AK-4	
R4A	25KΩ		75A13-13	Q11-120	M-40-S	AN-26	
B	Shaft		Not Req.	Not Req.	Not Req.	AK-4	
R5	6000Ω		75A13-15	Q11-115	M-23-S	AN-13	
B	Shaft		Not Req.	Not Req.	Not Req.	AK-1	
R7A	2.5 Meg.		75A13-3	Q11-239	M-84-S	AN-83	
B	Shaft		Not Req.	Not Req.	Not Req.	AK-1	

\* Additional parts to be used with "Concentrikrit".

## RESISTORS

SPRAGUE PART No.

IDENTIFICATION CODES AND INSTALLATION NOTES

TVL-415

TVL-414

TVL-412

TVL-104

TVL-50

TVL-13

29C7

29C6

1FM-325

1FM-215

MS-41

TC-2

1FM-21

TM-1

TM-25

TC-5

TM-15

29C6

1FM-31

29C6

1FM-335

TM-22

TM-15

TM-11

TM-15

TM-1

TM-11

TM-11

MB-22

TC-5

TM-15

1FM-215

TM-22

TM-25

1FM-25

1FM-25

TM-1

TM-15

1FM-21

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	
R8	3900Ω		98A45-16	BTS-3900	Ant. Coil Shunt
R9	47KΩ 20%		98A45-17	BTS-47K	AGC Network
R10	10KΩ		98A45-18	BTS-10K	RF Plate Coil Shunt
R11	2200Ω 20%		98A45-19	BTS-2200	RF Decoupling
R12	4700Ω		98A45-20	BTS-4700	Conv. Grid
R13	220KΩ 20%		98A45-21	BTS-220K	Conv. Grid
R14	15KΩ 20%		98A45-67	BTS-15K	Conv. Plate Decoupling
R15	10KΩ		98A45-18	BTS-10K	Osc. Grid
R16	4700Ω		98A45-20	BTS-4700	Osc. Plate
R17	5600Ω		60B8-562		1st Video IF Grid
R18	39Ω		60B8-390		1st Video IF Cathode
R19	1000Ω		60B8-102	BTS-1000	1st Video IF Decoupling
R20	12KΩ		60B8-123		2nd Video IF Transformer Shunt
R21	1000Ω		60B8-102	BTS-1000	AGC Network
R22	1000Ω		60B8-102	BTS-1000	AGC Network
R23	39Ω		60B8-390		2nd Video IF Cathode
R24	1000Ω		60B8-102	BTS-1000	2nd Video IF Decoupling
R25	33KΩ		60B8-333		3rd Video IF Transformer Shunt
R26	100Ω		60B8-101		3rd Video IF Cathode
R27	1000Ω		60B8-102	BTS-1000	3rd Video IF Decoupling
R28	3300Ω		60B8-332	BTS-3300	Video Det. Diode Load
R29	100KΩ		60B8-104	BTS-100K	Voltage Divider
R30	27KΩ		60B8-273	BTS-27K	AGC Network
R31	47KΩ		60B8-473	BTS-47K	AGC Network
R32	47KΩ		60B8-473	BTS-47K	AGC Network
R33	22KΩ		60B8-223	BTS-22K	AGC Network
R34	4300Ω 5%		60B14-432		Video Amp. Plate
R35	10KΩ		60B8-103	BTS-10K	AGC Keying Screen
R36	3300Ω		60B8-332	BTS-3300	AGC Keying Grid
R37	100KΩ		60B8-104	BTS-100K	Voltage Divider
R38	220KΩ		60B8-224	BTS-220K	Voltage Divider
R39	15KΩ		60B8-153	BTS-15K	Voltage Divider
R40	10KΩ		60B8-103	BTS-10K	Voltage Divider
R41	100KΩ		60B8-104	BTS-100K	Voltage Divider
R42	82Ω		60B8-820		1st Sound IF Cathode
R43	4700Ω		60B14-472	BTA-4700	1st Sound IF Decoupling
R44	39KΩ		60B8-393		2nd Sound IF Grid
R45	47KΩ		60B14-473		2nd Sound IF Screen
R46	1000Ω		60B8-102	BTS-1000	2nd Sound IF Decoupling
R47	15KΩ		60B8-153	BTS-15K	Voltage Divider
R48	150Ω		B608-151		Balancing
R49	4.7Ω		60B28-11	BW-1/2-4.7	Ratio Det. Filament - Wire Wound
R50	15KΩ		60B8-153	BTS-15K	Ratio Det. Diode Load
R51	15KΩ		60B8-153	BTS-15K	Ratio Det. Diode Load
R52	820Ω		60B8-821	BTS-820	Balancing
R53	27KΩ		60B8-273	BTS-27K	De-emphasis
R54	4.7 Meg.		60B8-475	BTS-4.7 Meg.	AF Amp. Grid
R55	270KΩ		60B8-274	BTS-270K	AF Amp. Plate-See Note 1
R56	47KΩ		60B8-473	BTS-47K	AF Amp. Plate Decoupling
R57	1 Meg.		60B8-105	BTS-1 Meg.	AF Amp. Screen-See Note 2
R58	470KΩ		60B8-474	BTS-470K	Output Grid
R59	270Ω		60B14-271	BW-1-270	Output Cathode
R60	18KΩ		60B8-183	BTS-18K	Tone Compensation
R61	270KΩ		60B8-274	BTS-270K	Voltage Divider
R62	18KΩ		60B8-183	BTS-18K	Sync. Sep. Plate
R63	2.2 Meg.		60B8-225	BTS-2.2 Meg.	Sync. Clipper Grid
R64	22KΩ		60B8-223	BTS-22K	Sync. Clipper Plate
R65	4.7 Meg.		60B8-475	BTS-4.7 Meg.	Sync. Phase Inv. Grid
R66	3300Ω		60B8-332	BTS-3300	Sync. Phase Inv. Plate
R67	3300Ω		60B8-332	BTS-3300	Sync. Phase Inv. Cathode

ITEM No.	RATING		DESCRIPTION
	RESISTANCE	WATTS	
R68	22KΩ		
R69	8200Ω		
R70	8200Ω		
R71	1.2 Meg.		
R72	270KΩ		
R73	6.8 Meg.		
R74	100KΩ		
R75	8200Ω		
R76	1 Meg.		
R77	1000Ω		
R78	2200Ω		
R79	100KΩ 5%		
R80	100KΩ 5%		
R81	4.7 Meg.		
R82	470KΩ		
R83	15KΩ		
R84	1500Ω		
R85	5600Ω		
R86	82KΩ		
R87	220KΩ		
R88	12KΩ		
R89	8200Ω		
R90	68Ω		
R91	470KΩ		
R92	150Ω		
R93	56KΩ		
R94	27KΩ		
R95	470KΩ		
R96A	20KΩ		
B	1000Ω		
C	4500Ω		
R97	22KΩ		
R98	1000Ω		
R99	270KΩ		

Note 1. Late model production.  
 Note 2. Used only in late models.  
 Note 3. Not used in all models.  
 Note 4. Some models use 16 inch pic.  
 Note 5. Models using rectangular.

ITEM No.	RATING		
	PRI.	SEC. 1	SEC. 2
T1A	117VAC @ 2.1A	640VCT .180ADC Tap @ 420VCT .070ADC	5VAC @ 3A
B			

① Add series resistor to re...  
 ① Used in sets which use 6S...  
 ② Used in sets which use 6A...

ITEM No.	RATING		DESCRIPTION
	DC RESISTANCE	PRI. SEC.	
T2	210Ω	1100Ω	79
T3	285Ω	5Ω	79
	Tap @ 44Ω	Tap @ 2.6Ω	
		SEC. 2	
		2Ω	
		SEC. 3	
T4	1400Ω	0Ω	79
	Tap @ 13.5Ω		
T5A1	13Ω		A3
B1	46Ω		
A2			A3
T6	1950Ω		69

③ Drill one new mounting hole  
 ④ Used in sets with 16 inch pic.  
 ⑤ Used in sets with 19 inch pic.

ITEM No.	RATING			
	IMPEDANCE	DC RES.	PRI. SEC.	DC RES.
T7A	4.6KΩ	4.2Ω	270Ω	.4Ω
B				

ITEM No.	RATINGS	
	FIELD	V. C. IMP.
SP1A	PM	4.2Ω
B	PM	
C	PM	
SP2A	CONE DIA.	V. C. DIA.
B	1 1/2"	1"
C	1 1/2"	

# DESCRIPTIONS

S (CONT.)

DATA			IDENTIFICATION CODES AND INSTALLATION NOTES
CORNEILL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling
PTE6S1	811-01	TM-11	Integrator Net.
PTE6D5	811-005	TM-25	AFC Filter
PTE6S5		TM-15	AFC Filter
DR5D4		MS-24	Fixed Trimmer
GR5T3	GP2K-330	MS-33	Hor. MV Feedback
GW5T1	GP1K-100	1FM-31	Hor. MC Feedback
GR5T3	GP2K-330	MS-33	Hor. Discharge
GW5T25	GP2K-270	1FM-325	Hor. Sweep Coupling
PTE6S5		TM-15	Hor. Output Screen Byp.
PTE4S5		TM-15	Damper Filter
PTE4S2		TM-12	Damper Filter
TP4P25		TC-2	Damper Filter
PTE4P1		TM-1	Hor. Sweep Coup. †
PTE6S1	811-01	TM-11	HV Filter AGC Keying Screen Byp.

on. MFGR'S Part No. 64B8-11.  
n. MFGR'S Part No. 64B9-24.  
S Part No. 65B18-5.

## DLS

CENTRALLAB PART No.	INSTALLATION NOTES
SBB-616-S	Contrast control-front Volume control-rear Attach per instructions in "Concentrikrit". Attach per instructions in "Concentrikrit".
AN-40	Brightness control
AK-4	Attach to R2A per instructions
AN-69	Vert. hold control
AK-4	Attach to R3A per instructions
AN-26	Horiz. hold control
AK-4	Attach to R4A per instructions
	Focus control-Wire Wound
AN-13	Vert. linearity control
AK-1	Attach to R6A per instructions
AN-83	Height control
AK-1	Attach to R7A per instructions

## ORS

IDENTIFICATION CODES	
ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.	
Ant. Coil Shunt	
AGC Network	
RF Plate Coil Shunt	
RF Decoupling	
Conv. Grid	
Conv. Grid	
Conv. Plate Decoupling	
Osc. Grid	
Osc. Plate	
1st Video IF Grid	
1st Video IF Cathode	
1st Video IF Decoupling	
2nd Video IF Transformer Shunt	
AGC Network	
2nd Video IF Cathode	
2nd Video IF Decoupling	
3rd Video IF Transformer Shunt	
3rd Video IF Cathode	
3rd Video IF Decoupling	
Video Det. Diode Load	
Voltage Divider	
AGC Network	
AGC Network	
AGC Network	
AGC Network	
Video Amp. Plate	
AGC Keying Screen	
AGC Keying Grid	
Voltage Divider	
Voltage Divider	
Voltage Divider	
Voltage Divider	
Voltage Divider	
1st Sound IF Cathode	
1st Sound IF Decoupling	
2nd Sound IF Grid	
2nd Sound IF Screen	
2nd Sound IF Decoupling	
Voltage Divider	
balancing	
Ratio Det. Filament - Wire Wound	
Ratio Det. Diode Load	
Ratio Det. Diode Load	
balancing	
de-emphasis	
F Amp. Grid	
F Amp. Plate-See Note 1	
F Amp. Plate Decoupling	
F Amp. Screen-See Note 2	
Output Grid	
Output Cathode	
One Compensation	
Voltage Divider	
Sync. Sep. Plate	
Sync. Clipper Grid	
Sync. Clipper Plate	
Sync. Phase Inv. Grid	
Sync. Phase Inv. Plate	
Sync. Phase Inv. Cathode	

# RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	
R68	22KΩ	1	60B8-223	BTS-22K	Integrator Network
R69	8200Ω		60B8-822	BTS-8200	Integrator Network
R70	8200Ω	1	60B8-822	BTS-8200	Integrator Network
R71	1.2 Meg.		60B8-125	BTS-1.2 Meg.	Vert. Osc. Grid
R72	270KΩ	1	60B8-274	BTS-270K	Vert. Osc. Plate-See Note 5
R73	6.8 Meg.		60B8-685	BTS-6.8 Meg.	Voltage Divider
R74	100KΩ	1	60B8-104	BTS-100K	Voltage Divider
R75	8200Ω		60B8-822	BTS-8200	Vert. Peaking
R76	1 Meg.	1	60B8-105	BTS-1 Meg.	Vert. Output Grid
R77	1000Ω		60B14-102	BTA-1000	Vert. Output Cathode
R78	2200Ω	2	60B20-222	BT-2-2200	Decoupling
R79	100KΩ 5%		60B7-104	BTS-100K-5%	Horiz. Sync. Disc. Load
R80	100KΩ 5%	1	60B7-104	BTS-100K-5%	Horiz. Sync. Disc. Load
R81	4.7 Meg.		60B8-475	BTS-4.7 Meg.	Horiz. Sync. Disc. Load
R82	470KΩ	2	60B8-474	BTS-470K	Horiz. AFC Filter Network
R83	15KΩ		60B8-153	BT-2-15K	Feedback Network
R84	1500Ω	2	60B8-152	BTS-1500	Horiz. Osc. Cathode-See Note 4
R85	5600Ω		60B8-562	BTS-5600	Horiz. Osc. Plate
R86	82KΩ	2	60B8-823	BTS-82K	Horiz. Discharge Grid
R87	220KΩ		60B8-224	BTS-220K	Horiz. Discharge Plate
R88	12KΩ	2	60B20-123	BT-2-12K	Decoupling
R89	8200Ω		60B8-822	BTS-8200	Horiz. Peaking
R90	68Ω	2	60B8-680	60B8-680	Parasitic Supp.
R91	470KΩ		60B8-474	BTS-470K	Horiz. Output Grid-See Note 5
R92	150Ω	2	60B20-151	BW-2-150	Horiz. Output Cathode
R93	56KΩ		60B14-563	BTA-56K	Horiz. Output Screen
R94	27KΩ	2	60B20-273	BT-2-27K	Horiz. Output Screen
R95	470KΩ		60B14-474		HV Filter
R96A	20KΩ	5			Bleeder Network-Wire Wound
B	1000Ω		61B13-1		Focus Control Shunt-Wire Wound
C	4500Ω	2			Focus Coil Shunt-Wire Wound
R97	22KΩ		60B20-223	BT-2-22K	Bleeder Network-See Note 3
R98	1000Ω	5	61A3-13	AB-1000	Filter-Wire Wound
R99	270KΩ		60B8-274	BTS-270K	Equalizing

Note 1. Late model productions use 150KΩ resistor in this application.  
Note 2. Used only in late model productions.  
Note 3. Not used in all models.  
Note 4. Some models use 1600Ω resistor in this application.  
Note 5. Models using rectangular picture tube use 1 meg resistor in this application.

## TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	ADMIRAL PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1A	117VAC ② 2.1A	640VCT 180ADC	5VAC ④ 3A	6.3VAC ② 2.3A SEC. 4 ④ 9.6A	80B24-1 ①		P-3067 ①②	
B		420VCT 070ADC			80C25-1 ②			

① Add series resistor to reduce plate voltage of high voltage secondary tap.  
② Used in sets which use 6SQ7 audio amplifier.  
③ Used in sets which use 6AU6 audio amplifier.

## TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		ADMIRAL PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
T2	210Ω	1100Ω	79A18-2	A-8111 ③	A-3000 ③	TBO-3 ③	Vert. Block Osc. Trans. Hor. Output Trans.
T3	285Ω Tap ④ 44Ω	5Ω Tap ④ 2.6Ω	79C30-1				
T4	1400Ω Tap ④ 13.5Ω	2Ω SEC. 3 Ω	79B29		A-3037		Vert. Output Trans.
T5A1	13Ω		A3178 ④		MD-70F		Hor. Deflection Coil Vert. Deflection Coil Deflection Yoke Focus Coil
B1	46Ω		A3197 ⑤				
A2			69C117-1				

③ Drill one new mounting hole.  
④ Used in sets with 16 inch picture tube.  
⑤ Used in sets with 19 inch picture tube.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE	DC RES.	ADMIRAL PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.			
T7A	4.6KΩ	4.2Ω	270Ω	.4Ω	79A31-1 ①	A-3877 ③	A-3019 ③	RO-9	① Used in sets which use 6SQ7 audio amplifier. ② Used in sets which use 6AU6 audio amplifier ③ Drill one new mounting hole.
B					79A31-4 ②				

## SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
	FIELD	V. C. IMP.	ADMIRAL PART No.	JENSEN PART No.	QUAM PART No.	
SP1A	PM	4.2Ω	78B55-1 ⑦	ST-102 10	12A4A	⑦ Used in chassis 24E1, 24G1 ⑧ Used in chassis 24D1, 24F1 ⑨ Used in chassis 24H1 ⑩ Replace output transformer to match 6-8Ω voice coil.
B	PM		78B55-2 ⑧	MOD. P12-S		
C	PM		78B47-1 ⑨			
SP2A	CONE DIA.	V. C. DIA.				
B	11 1/2"	1"				
C	11 1/2"					

ADMIRAL CHASSIS 24D1, 24E1, 24F1, 24G1, 24H1

# PARTS LIST AND DESCRIPTIONS (Continued)

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 $\mu$ H)	ADMIRAL PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1A B C	.180ADC	54 $\Omega$	1.3 Henries	74B18-1 ① 74B18-2 ② 74B18- ⑩	C-2325 ③	C-2994 ③	TR-4200③	① Used in sets which use 6SQ7 audio amp. ② Used in sets which use 6AU6 audio amp. ③ Drill one new mounting hole. ⑩ Used in early production.

## COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
				ADMIRAL	MEISSNER	
		PRI.	SEC.	PART No.	PART No.	
L2A	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-2		Channel 2
B	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-3		Channel 3
C	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-4		Channel 4
D	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-5		Channel 5
E	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-6		Channel 6
F	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-7		Channel 7
G	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-8		Channel 8
H	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-9		Channel 9
I	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-10		Channel 10
J	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-11		Channel 11
K	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-12		Channel 12
L	Ant. Coil	0 $\Omega$	0 $\Omega$	98A62-13		Channel 13
L3A	Mixer-Osc.	0 $\Omega$		98A63-2		Channel 2
B	Mixer-Osc.	0 $\Omega$		98A63-3		Channel 3
C	Mixer-Osc.	0 $\Omega$		98A63-4		Channel 4
D	Mixer-Osc.	0 $\Omega$		98A63-5		Channel 5
E	Mixer-Osc.	0 $\Omega$		98A63-6		Channel 6
F	Mixer-Osc.	0 $\Omega$		98A63-7		Channel 7
G	Mixer-Osc.	0 $\Omega$		98A63-8		Channel 8
H	Mixer-Osc.	0 $\Omega$		98A63-9		Channel 9
I	Mixer-Osc.	0 $\Omega$		98A63-10		Channel 10
J	Mixer-Osc.	0 $\Omega$		98A63-11		Channel 11
K	Mixer-Osc.	0 $\Omega$		98A63-12		Channel 12
L	Mixer-Osc.	0 $\Omega$		98A63-13		Channel 13
L4	Fil. Choke	0 $\Omega$		98A45-15		
L5	Fil. Choke	0 $\Omega$		98A45-14		
L6	RF Choke	.5 $\Omega$		98A45-72		
L7	1st Video IF	.5 $\Omega$		98A45-69		
L8	1st Video IF Coupling	1 $\Omega$		73A6-1		
L9	2nd Video IF -Sound Take Off	.5 $\Omega$	.5 $\Omega$	72C96-5		
L10	3rd Video IF	.5 $\Omega$	.5 $\Omega$	72C96-3		
L11	3rd Video IF Cathode Trap	.1 $\Omega$	.1 $\Omega$	72C96-2		
L12	4th Video IF	.6 $\Omega$	.6 $\Omega$	72C96-4		
L13	Peaking	8.5 $\Omega$		73A5-4	19-1920	90 microhenries wound on 33K $\Omega$ resistor
L14	Sound Trap	1.2 $\Omega$		73A4-1		7.3 microhenries
L15	Peaking	7 $\Omega$		73A5-5	19-1922	250 microhenries wound on 33K $\Omega$ resistor
L16	Peaking	7 $\Omega$		73A5-5	19-1922	250 microhenries wound on 33K $\Omega$ resistor
L17	1st Sound IF	0 $\Omega$		72C96-2		
L18	2nd Sound IF	.5 $\Omega$	.2 $\Omega$	72B86-2		
L19	Ratio Det.					
	Trans.	.1 $\Omega$	.1 $\Omega$	72B87-1		
L20	Horiz. Freq.	50 $\Omega$		94A17		Includes R85 and C61
L21	Horiz. Lin.	11.4 $\Omega$		94A28		Tap at 7 $\Omega$
L22	Width	1.8 $\Omega$		94A29		
L23	Fil. Choke	0 $\Omega$				
L24	Fil. Choke	0 $\Omega$				

## PHONO CARTRIDGE and NEEDLE

ITEM No.	REPLACEMENT DATA				REMARKS
	ADMIRAL PART No.	ASTATIC PART No.		SHURE PART No.	
		CARTRIDGE	NEEDLE		
M1	409A13-1	AC-AG-J	C-AG	W26B	A66U

ASTATIC AND SHURE NEEDLE LISTINGS SHOWN ABOVE ARE SPECIFIED FOR THE RESPECTIVE REPLACEMENT CARTRIDGES LISTED.

## DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					ADMIRAL PART No.		
M2	Bayonet	6-8	.15	Brown	82A10-3		Type #47 Jewel pilot light
M3	Bayonet	6-8	.15	Brown	81A1-5		Type #47 Pilot light

## MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES
M4	RF Tuner	94C18-3	
M5	Fuse	84A1-18	4A 250V Type MTH
M6	Fuse	84A4-2	.25A 250V Type 8AG
M7A	Ion Trap	94A16-2	For 16 inch tube
B	Ion Trap	94A15-1	For 19 inch tube
M8	Switch	77A29	Phono compartment light
M9A	Antenna	A3132	Models 36X36, 36X37
B	Antenna	A3023	Models 39X16, 39X17, 29X15, 29X16, 29X17, 26X36, 26X37, 26X35
C	Antenna	A3029	Models 26X45, 26X46
M10	Trimmer	66A30-1	20-280MMF Horiz. Drive
	Knob	33C53-9	Channel selector
	Knob	33C53-10	Fine tuning
	Knob	33C53-11	Off-Volume
	Knob	33C53-12	Contrast
	Safety Glass	23D61	Round mounting holes 16 inch tube
	Safety Glass	23D61-1	Oblong mounting hole 16 inch tube
	Safety Glass	23D62	Round mounting holes 19 inch tube
	Safety Glass	23D62-1	Oblong mounting holes 19 inch tube
	Safety Glass	23D67	Models 26X45, 26X46