

EMERSON MODEL 571

**EMERSON MODELS
571, 606 (Ch. 120066)**

TRADE NAME	Emerson, Models 571, 606 (Ch. 120066)	
MANUFACTURER	Emerson Radio & Phonograph Corp., 111 Eighth Ave., New York 11, N.Y.	
TYPE SET	Television Receiver	
TUBES	Twenty-Eight	
POWER SUPPLY	105-125 Volts AC	RATING 2.14 Amps. @ 117 Volts AC
TUNING RANGE	Channels 1 through 13	

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INSTRUCTIONS FOR THE USE OF THIS FOLDER

There are definite reasons why the material in this folder is laid out in the following manner. First, employing a combination of a six-page section and two eight-page sections enables the user to have greater facility in the use of the various material included, than is possible by permanently binding the data. Since any individual sections may be removed, it is possible to coordinate any specific servicing activity with the exact information that is required to perform that activity.

The six-page section includes the complete schematic diagram of the receiver, with no material required for actual service operations appearing on the reverse side, so that the schematic diagram may be completely removed for layout on the bench, to rest on an easel, or even to tack on the wall.

The first eight-page section (pages 3 through 10) contains all the material necessary for alignment operations on the receiver, including the individual alignment steps and the photographs or line drawings necessary to identify the location of the alignment points. This section also contains the greater portion of the parts list and description. Here again, for greater utility the parts list page may be removed to open into a full two-page spread of uninterrupted listings.

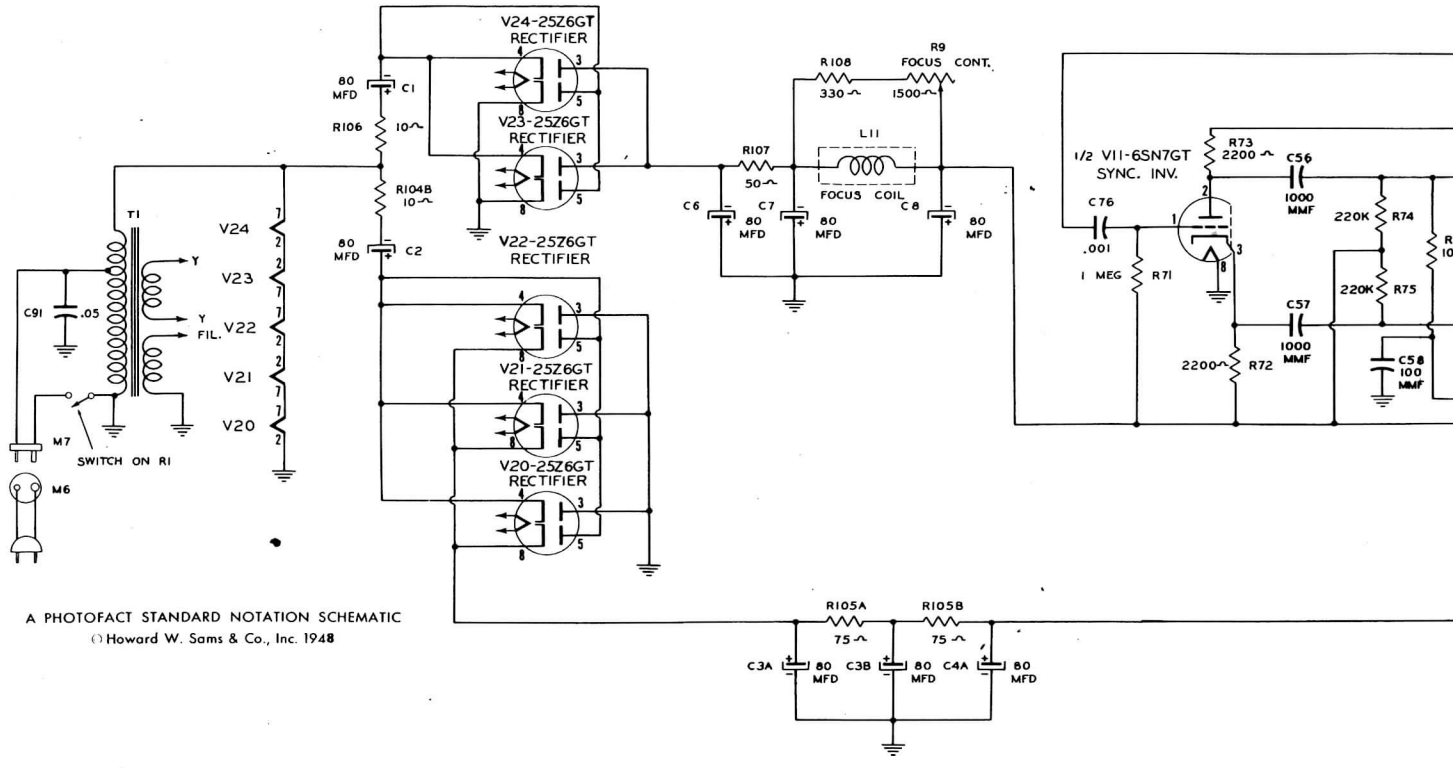
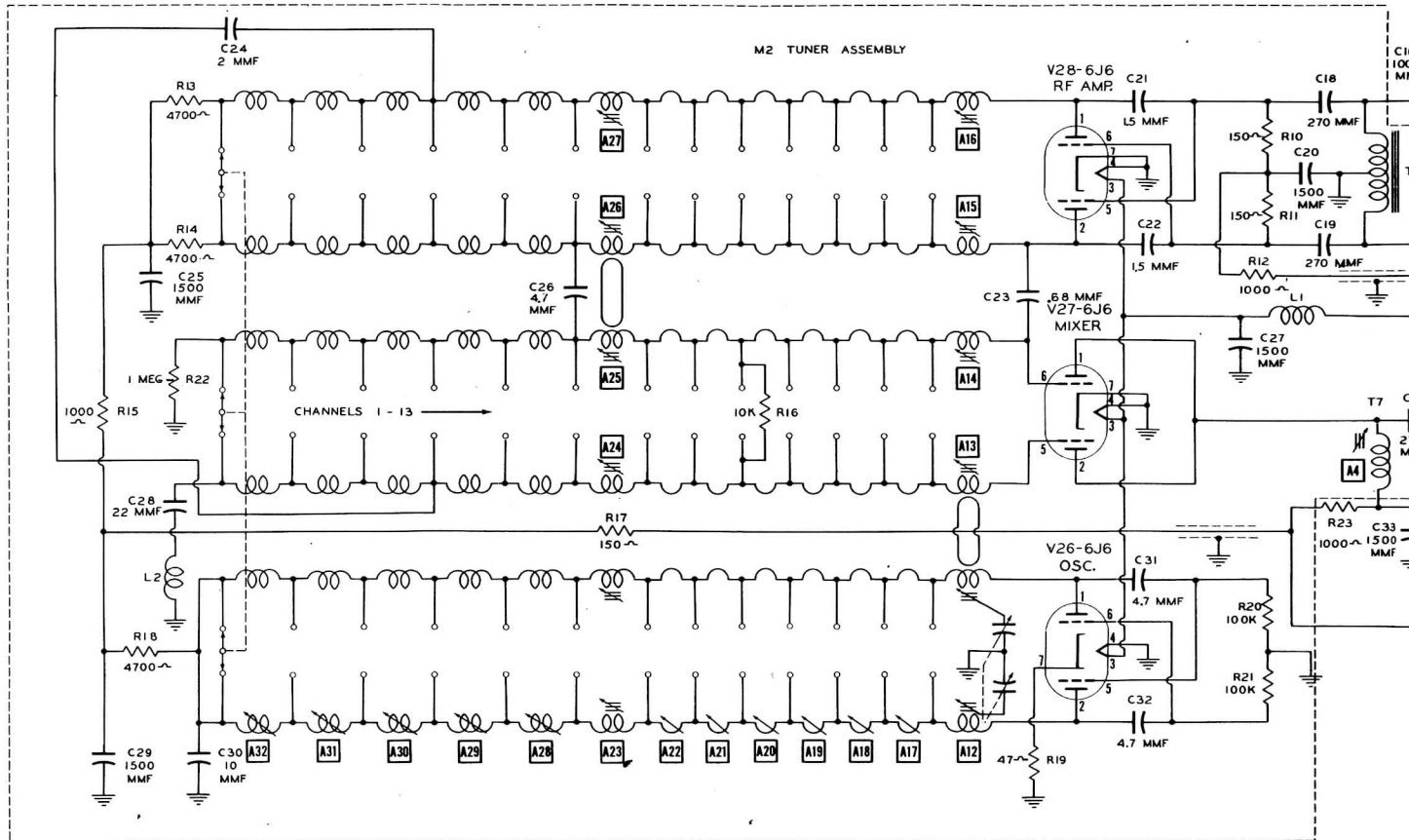
The second eight-page section contains the remainder of the service material such as the component part identification in the chassis views, the voltage and resistance charts, etc. Any of this data can be removed for simultaneous use with the schematic diagram. To provide a greater clarity and ease of identification, two bottom chassis views are given with capacitors and resistors identified separately.

Individual page sections are identified as to model number and page number so that they may be returned to the proper envelope in the correct order for future use.

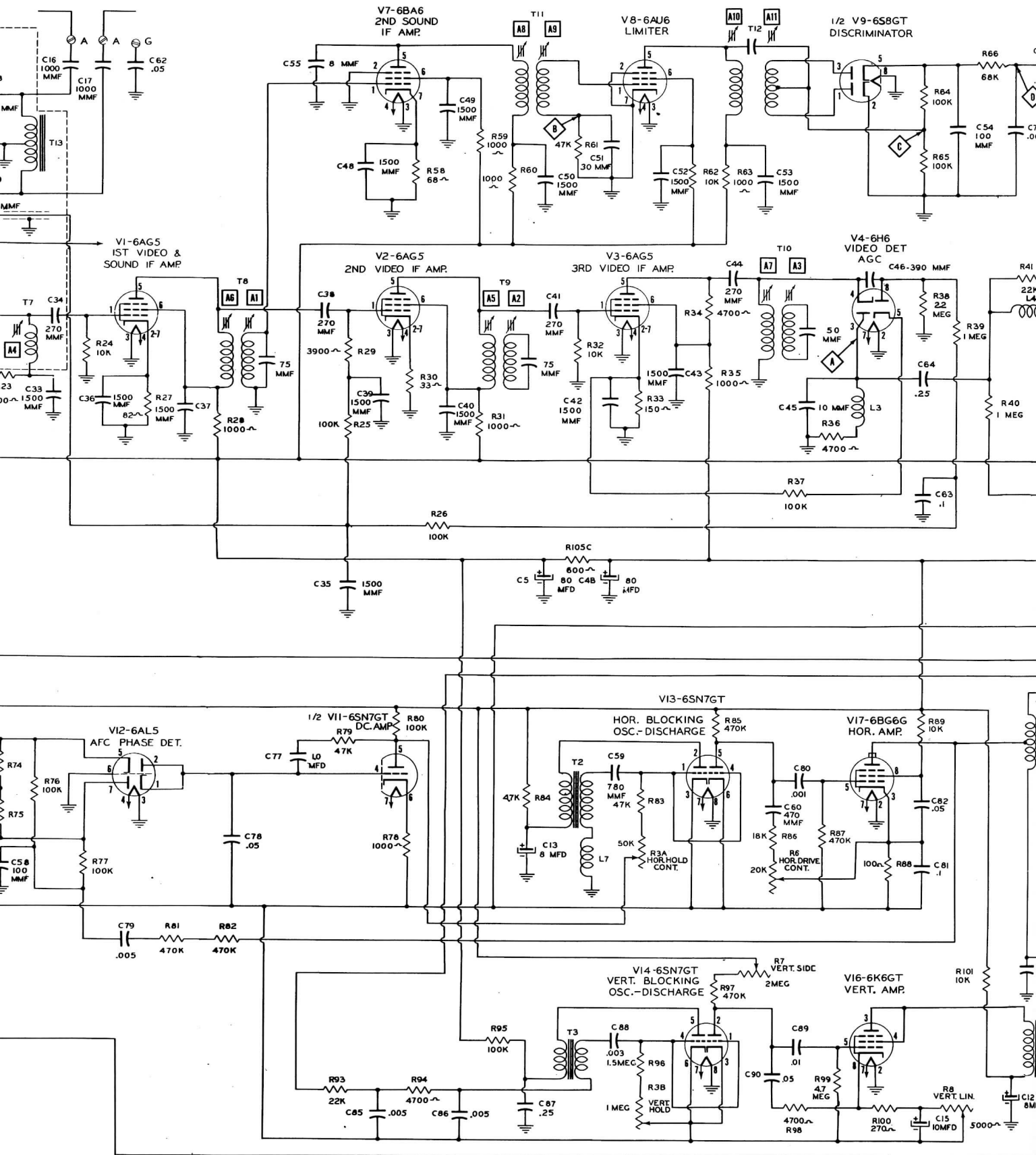
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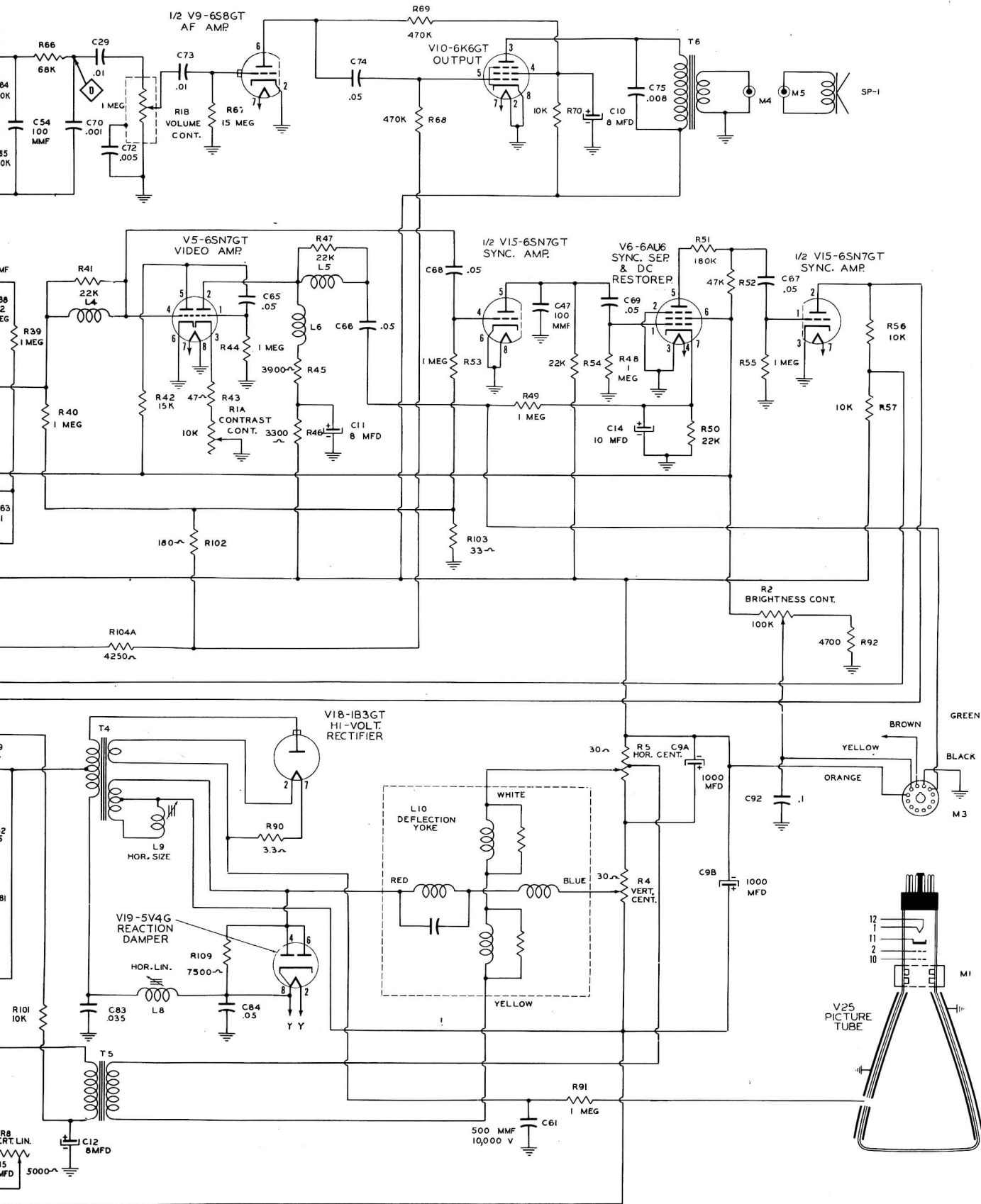
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A PHOTOFACT STANDARD NOTATION SCHEMATIC
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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		EMERSON PART No.	STANDARD REPLACEMENT		
V1	1st Video & Sound IF Amp.	800525	6AG5	7BD	
V2	2nd Video IF Amp.	800525	6AG5	7BD	
V3	3rd Video IF Amp.	800525	6AG5	7BD	
V4B	Video Det. & AGC	800520	6H6	6BT	
V5	Video Amp.	800520	6SN7GT	8BD	
V6	Sync. Separator & DC Rest.	800533	6AU6	7BK	
V7	2nd Sound IF Amp.	800533	6BA6	7BK	
V8	3rd Video IF Amp.	800533	6AU6	7BK	
V9	Disc. AF Amp.	800016	6K6GT	8CB	
V10	Power Output Amp.	800016	6K6GT	8CB	
V11	Syn. Inv.-DC	800380	6SN7GT	8BD	
V12	APC Phase Det. Amp.	800541	6AL5	6BT	
V13	Hor. Blocking	800380	6SN7GT	8BD	
V14	Sec. Discharge	800380	6SN7GT	8BD	
V15	Syn. Amp.	800380	6SN7GT	8BD	
V16	Ver. Amp.	800016	6K6GT	7S	
V17	High Volt. Rect.	800044	6BG6-G	6BT	
V18	Reaction Damp.	800044	6BG6-G	6BT	
V19	Rectifier	800016	5Y4G	5L	
V20	Rectifier	800044	25Z6GT	7Q	
V21	"	800480	25Z6GT	7Q	
V22	"	800480	25Z6GT	7Q	
V23	"	800480	25Z6GT	7Q	
V24	"	800480	25Z6GT	7Q	
V25	Picture Tube	810000	10BP4	7ZF	
V26	Osc.	800536	6J6	7BF	
V27	Mixer	800536	6J6	7BF	
V28	RF Amplifier	800536	6J6	7BF	

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA		SPRAGUE PART No.	INSTALLATION NOTES
		EMERSON PART No.	AEROVOX DUBILIER PART No.		
C1A	80	825098	UF7A474	D-10200	Doublet Cap.
C2	80	825098	UF7A474	D-10200	Alternate Part
C3A	80	825098	UF7A474	D-10200	Filter
C4	80	825098	UF7A474	D-10200	See Note 2
C5	80	825098	UF7A474	D-10200	"
C6	80	825098	UF7A474	D-10200	"
C7	80	825098	UF7A474	D-10200	"
C8	80	825098	UF7A474	D-10200	"
C9A	1500	825098	UF7A474	D-10200	"
B	1500	825098	UF7A474	D-10200	"
B1	8	825111	PR250/8	UM-82	Decomp. Filter
B2	8	825111	PR250/8	UM-82	"
B3	8	825111	PR250/8	UM-82	"
B4	8	825111	PR250/8	UM-82	"
B5	8	825111	PR250/8	UM-82	"
B6	8	825111	PR250/8	UM-82	"
B7	8	825111	PR250/8	UM-82	"
B8	8	825111	PR250/8	UM-82	"
B9	8	825111	PR250/8	UM-82	"
B10	8	825111	PR250/8	UM-82	"
B11	8	825111	PR250/8	UM-82	"
B12	8	825111	PR250/8	UM-82	"
B13	8	825111	PR250/8	UM-82	"
B14	8	825111	PR250/8	UM-82	"
B15	8	825111	PR250/8	UM-82	"
B16	8	825111	PR250/8	UM-82	"
B17	8	825111	PR250/8	UM-82	"
B18	8	825111	PR250/8	UM-82	"
B19	8	825111	PR250/8	UM-82	"
B20	8	825111	PR250/8	UM-82	"
B21	8	825111	PR250/8	UM-82	"
B22	8	825111	PR250/8	UM-82	"
B23	8	825111	PR250/8	UM-82	"
B24	8	825111	PR250/8	UM-82	"
B25	8	825111	PR250/8	UM-82	"
B26	8	825111	PR250/8	UM-82	"
B27	8	825111	PR250/8	UM-82	"
B28	8	825111	PR250/8	UM-82	"
B29	8	825111	PR250/8	UM-82	"
B30	8	825111	PR250/8	UM-82	"
B31	8	825111	PR250/8	UM-82	"
B32	8	825111	PR250/8	UM-82	"
B33	8	825111	PR250/8	UM-82	"
B34	8	825111	PR250/8	UM-82	"
B35	8	825111	PR250/8	UM-82	"
B36	8	825111	PR250/8	UM-82	"
B37	8	825111	PR250/8	UM-82	"
B38	8	825111	PR250/8	UM-82	"
B39	8	825111	PR250/8	UM-82	"
B40	8	825111	PR250/8	UM-82	"
B41	8	825111	PR250/8	UM-82	"
B42	8	825111	PR250/8	UM-82	"
B43	8	825111	PR250/8	UM-82	"
B44	8	825111	PR250/8	UM-82	"
B45	8	825111	PR250/8	UM-82	"
B46	8	825111	PR250/8	UM-82	"
B47	8	825111	PR250/8	UM-82	"
B48	8	825111	PR250/8	UM-82	"
B49	8	825111	PR250/8	UM-82	"
B50	8	825111	PR250/8	UM-82	"
B51	8	825111	PR250/8	UM-82	"
B52	8	825111	PR250/8	UM-82	"
B53	8	825111	PR250/8	UM-82	"
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B87	8	825111	PR250/8	UM-82	"
B88	8	825111	PR250/8	UM-82	"
B89	8	825111	PR250/8	UM-82	"
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B91	8	825111	PR250/8	UM-82	"
B92	8	825111	PR250/8	UM-82	"
B93	8	825111	PR250/8	UM-82	"
B94	8	825111	PR250/8	UM-82	"
B95	8	825111	PR250/8	UM-82	"
B96	8	825111	PR250/8	UM-82	"
B97	8	825111	PR250/8	UM-82	"
B98	8	825111	PR250/8	UM-82	"
B99	8	825111	PR250/8	UM-82	"
B100	8	825111	PR250/8	UM-82	"

ITEM No.	RATING	REPLACEMENT DATA		RESISTANCE WATTS	INSTALLATION NOTES
		EMERSON PART No.	CLAROSTAL PART No.		
R1A	10K5	390034		4	Contrast Control-Front Section
R1B	10K5	390034		4	Volume Control-Rear Section
R1C	10K5	390034		4	Power Switch
R2A	100K5	390032	D11-128	4	Not Req.
R2B	100K5	390032	D11-128	4	Attach to R2A per Instructions
R2C	100K5	390032	D11-128	4	Brightness Control
R3A	50K5	390036		4	Vert. Hold Control-Rear Section
R3B	50K5	390036		4	Vert. Hold Control-Front Section
R4	302	390033	43-30CT	4	Vert. Centering Control tapped @ 15%
R5	302	390033	43-30CT	4	Vert. Centering Control tapped @ 15%
R6	20K5	390035	43-30CT	4	Hor. Centering Control
R7A	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7B	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7C	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7D	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7E	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7F	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7G	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7H	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7I	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7J	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7K	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7L	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7M	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7N	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7O	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7P	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7Q	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7R	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7S	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7T	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7U	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7V	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7W	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7X	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7Y	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R7Z	2 Meg.	390038	43-30CT	4	Hor. Centering Control tapped @ 15%
R8A	50002	300039	D11-114	4	Attach to R8A per Instructions
R8B	50002	300039	D11-114	4	Attach to R8A per Instructions
R8C	50002	300039	D11-114	4	Attach to R8A per Instructions
R8D	50002	300039	D11-114	4	Attach to R8A per Instructions
R8E	50002	300039	D11-114	4	Attach to R8A per Instructions
R8F	50002	300039	D11-114	4	Attach to R8A per Instructions
R8G	50002	300039	D11-114	4	Attach to R8A per Instructions
R8H	50002	300039	D11-114	4	Attach to R8A per Instructions
R8I	50002	300039	D11-114	4	Attach to R8A per Instructions

ALIGNMENT INSTRUCTIONS

VIDEO IF ALIGNMENT

Waveforms shown may be inverted depending on the number of amplifying stages in the vertical amplifier of the particular scope being used.

In the alignment notes the sweep width is given. Some generators are calibrated in deviation. The frequency deviation, which is plus and minus, is, by definition, half the sweep width.

The marker pip signal required in Steps 9, 10 and 11 is coupled to one of the dipole terminals. This signal should be unmodulated and derived from an accurately calibrated signal generator. Attenuate the signal so that a small "pip" is visible. A strong signal will cause undesirable AGC action and will distort or swamp the picture.

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the scope for horizontal deflection.

The schematic of the dummy mixer tube is given in Figure 1.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1 5000MTF	High side to dummy mixer cathode. Low side to chassis.	21.25MC (Unmodulated)	3	DC probe to Point \diamond (Pin 3 of V4). Common to chassis.	A1, A2.	Adjust for <u>minimum</u> deflection.
2 5000MTF	"	27.25MC	3	"	A3	"
3 5000MTF	"	23.0 MC	3	"	A4	Adjust for maximum deflection.
4 5000MTF	"	25.25MC	3	"	A5	"
5 5000MTF	"	23.4 MC	3	"	A6	"
6 5000MTF	"	24.5 MC	3	"	A7	"
7	Repeat Steps 1 & 2.					
						Remove dummy mixer and replace mixer tube. Remove VTVM.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8 Direct	High side to one ant. terminal. Low side to chassis.	63MC (Freq. Mod 10MC sweep)		3	Vertical input to Point \diamond in series with 22K Ω carbon resistor. Low side to chassis.		Leave FM signal generator at this setting throughout Steps 9 - 12.
9 Direct	High side of marker gen. to other ant. terminal. Low side to chassis.	"	65.75MC (Pure RF)	3	"		Adjust fine tuning control for placement of marker pip as shown in Fig. 2. Leave at this setting for Steps 10, 11 & 12.
10 Direct	"	"	61.25MC	3	"	A5	Adjust for placement of marker pip as shown in Fig. 2.
11 Direct	"	"	64.5 MC	3	"	A4	"
12 Direct	"	"	-	3	"	A6, A7	Make minor adjustments, if necessary, for proper slope shape and band width per Fig. 2.

SOUND IF ALIGNMENT

Loosely couple the signal from the marker generator to the input by placing output lead near the FM signal generator output lead. Use only enough signal to give visible pip. Set marker generator to produce a 21.25MC unmodulated signal for use in Steps 13-16 inclusive.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
13 5000MTF	High side to Pin #1 of 1st Video IF Amp. V-1. Low side to chassis.	21.25MC (Freq. Mod. 60KCC Sweep)	3	Vertical input to Point \diamond . Low side to chassis.	A8, A9	Adjust for maximum amplitude and symmetry with marker pip at peak of curve per Fig. 3.
14 5000MTF	"	"	3	"	A1	"
15 5000MTF	"	"	3	Vertical input to Point \diamond . Low side to chassis.	A10	Adjust for maximum amplitude and symmetry with marker pip at peak of curve per Fig. 3.
16 5000MTF	"	"	3	Vertical input to Point \diamond . Low side to chassis.	A11	Adjust for maximum straightness of diagonal line with marker pip at center of line per Fig. 4. Continue with Step 17.

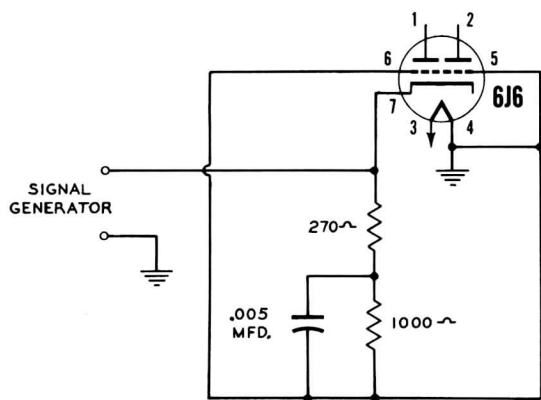
ALTERNATE SOUND IF ALIGNMENT USING VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
13 5000MTF	High side to Pin #1 of 1st Video IF Amp. V-1. Low side to chassis.	21.25MC (Unmodulated)	3	DC probe to Point \diamond . Common to chassis.	A8, A9, A1	Adjust for maximum deflection.
14 5000MTF	"	"	3	DC probe to Point \diamond . Common to chassis.	A10,	"
15 5000MTF	"	"	3	DC probe to Point \diamond . Common to chassis.	A11	Adjust for zero reading. (Make certain readings of opposite polarity are obtained on each side of zero setting.)
16 5000MTF	"	Tune 75KC above and below 21.25MC and note meter readings.	3	"	A10	Adjust A10, if necessary, for equal readings (opposite polarity) 75KC above and below 21.25MC.

RF ALIGNMENT—CHANNELS 1-13

Set fine tuning control to a position approximately 140° from its full counter-clockwise position. This aligns the holes in the drive disc with the adjustment screws on the oscillator switch wafer. Do not change this setting during entire r-f alignment.
Attenuate signal from marker generator to give as small a "pip" as possible to prevent AGC action.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
17 300Ω carbon res.	High side to one ant. terminal. Low side to chassis. High side of marker generator to other ant. terminal. Low side to chassis.	213MC (Freq. Mod. 10MC Sweep)	215.75MC	13	Vertical input to Point Δ in series with 22KΩ carbon resistor. Low side to chassis	A12	Adjust for placement of sound marker per Fig. 2.
18 300Ω carbon res.	"	"	"	13	"	A13, A14, A15, A16	Adjust for shaping to conform to Fig. 2.
19 300Ω carbon res.	"	207MC (Freq. Mod. 10MC Sweep)	209.75MC	12	"	A17	Adjust for placement of sound marker per Fig. 2.
20 300Ω carbon res.	"	201MC (Freq. Mod. 10MC Sweep)	203.75MC	11	"	A18	"
21 300Ω carbon res.	"	195MC (Freq. Mod. 10MC Sweep)	197.75MC	10	"	A19	"
22 300Ω carbon res.	"	189MC (Freq. Mod. 10MC Sweep)	191.75MC	9	"	A20	"
23 300Ω carbon res.	"	183MC (Freq. Mod. 10MC Sweep)	185.75MC	8	"	A21	"
24 300Ω carbon res.	"	177MC (Freq. Mod. 10MC Sweep)	179.75MC	7	"	A22	"
25 300Ω carbon res.	"	85MC (Freq. Mod. 10MC Sweep)	87.75MC	6	"	A23	Adjust for placement of sound marker per Fig. 2.
26 300Ω carbon res.	"	"	"	6	"	A24, A25, A26, A27	Adjust for shaping to conform to Fig. 2.
27 300Ω carbon res.	"	79MC (Freq. Mod. 10MC Sweep)	81.75MC	5	"	A28	Adjust for placement of sound marker per Fig. 2.
28 300Ω carbon res.	"	69MC (Freq. Mod. 10MC Sweep)	71.75MC	4	"	A29	"
29 300Ω carbon res.	"	63MC (Freq. Mod. 10MC Sweep)	65.75MC	3	"	A30	"
30 300Ω carbon res.	"	57MC (Freq. Mod. 10MC Sweep)	59.75MC	2	"	A31	"
31 300Ω carbon res.	"	47MC (Freq. Mod. 10MC Sweep)	49.75MC	1	"	A32	"



DUMMY MIXER TUBE

NOTE: CAREFULLY BEND PIN 7 AT RIGHT ANGLE. CONNECT PINS 5 & 6 TO PIN 4 WHICH IS GROUNDED AT THE SOCKET. CONNECT OTHER COMPONENTS AS SHOWN.

FIG. 1

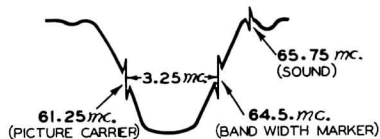


FIG. 2

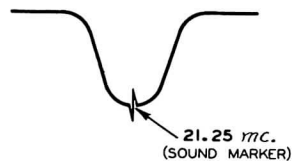


FIG. 3

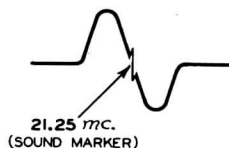
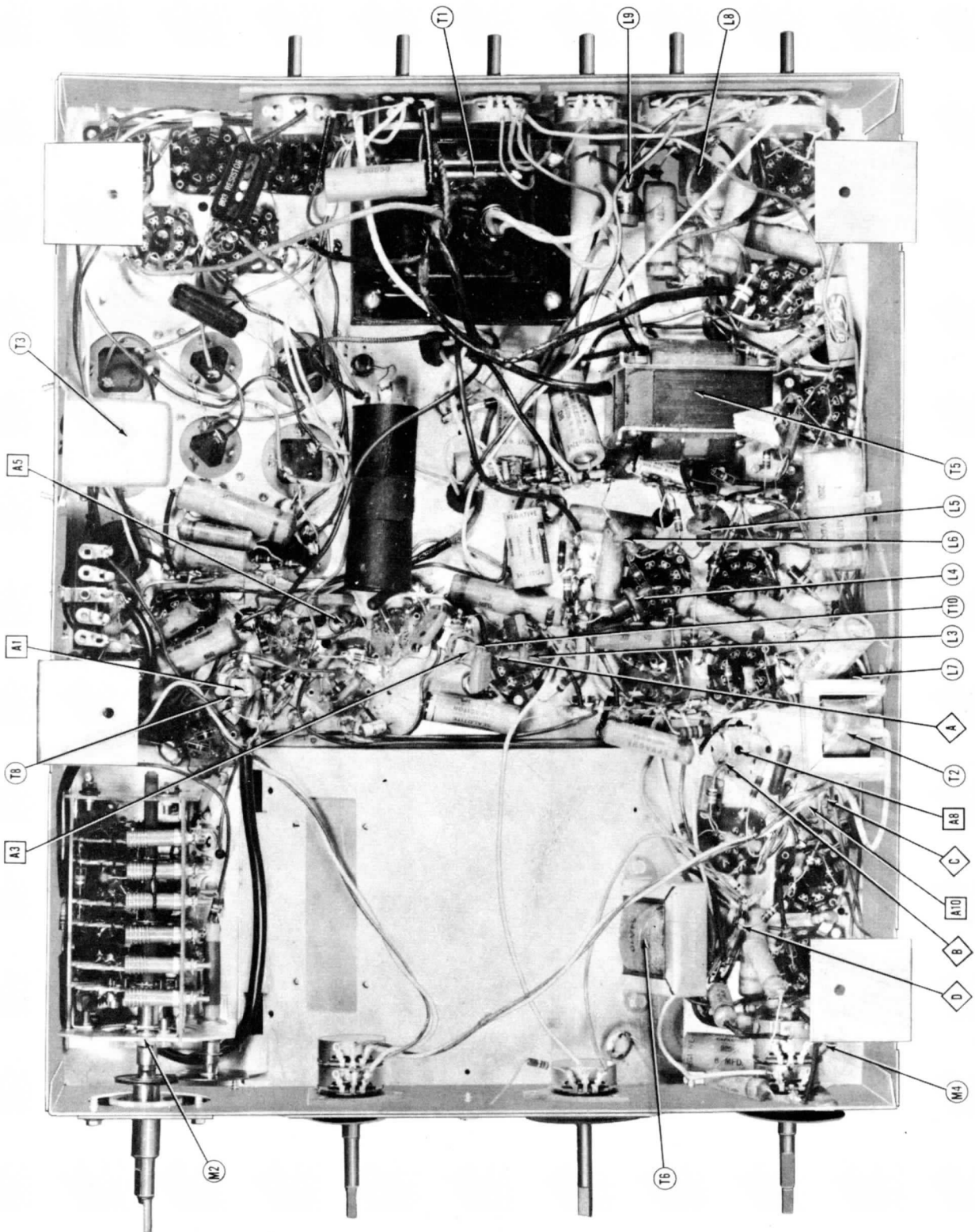


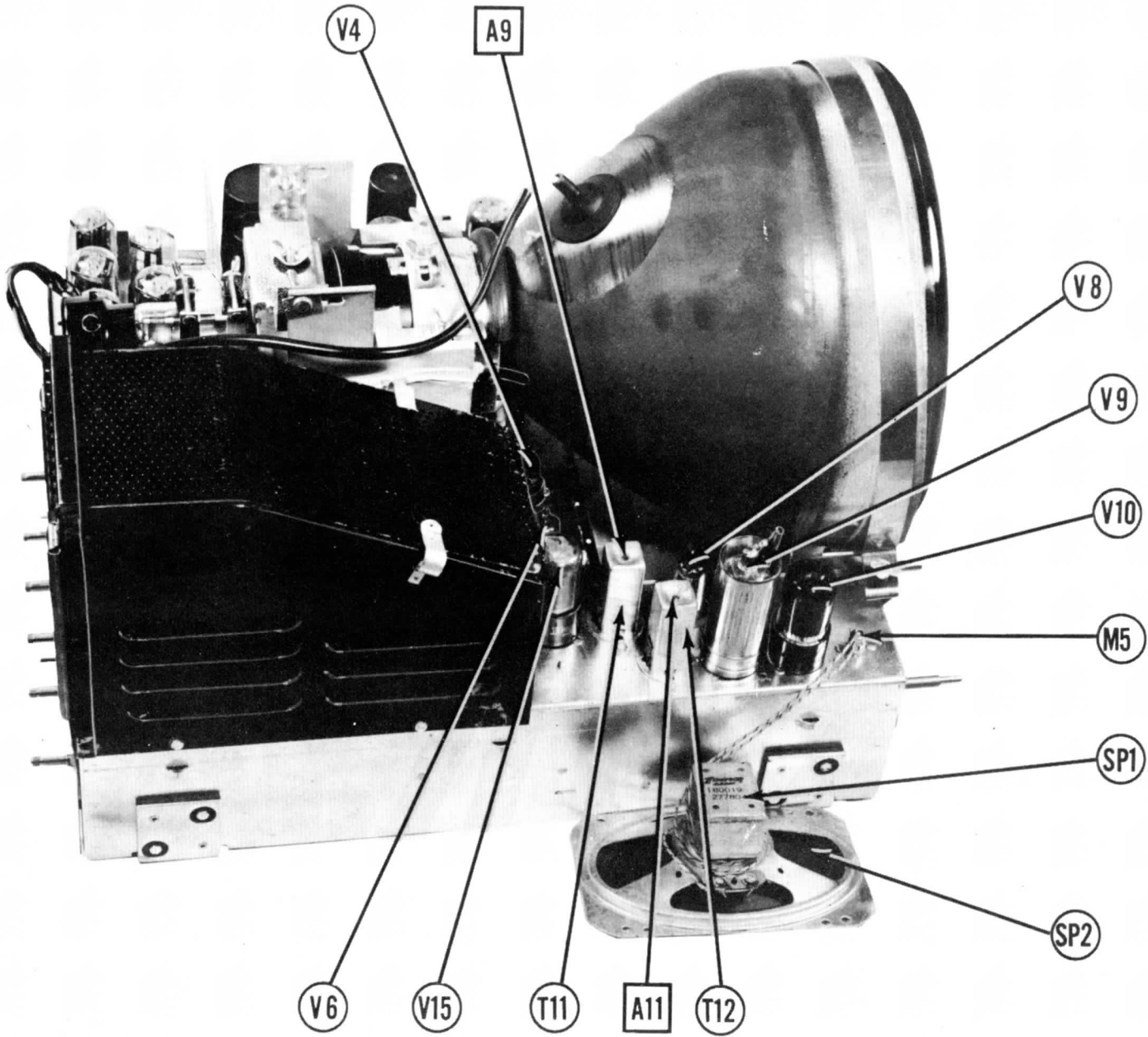
FIG. 4



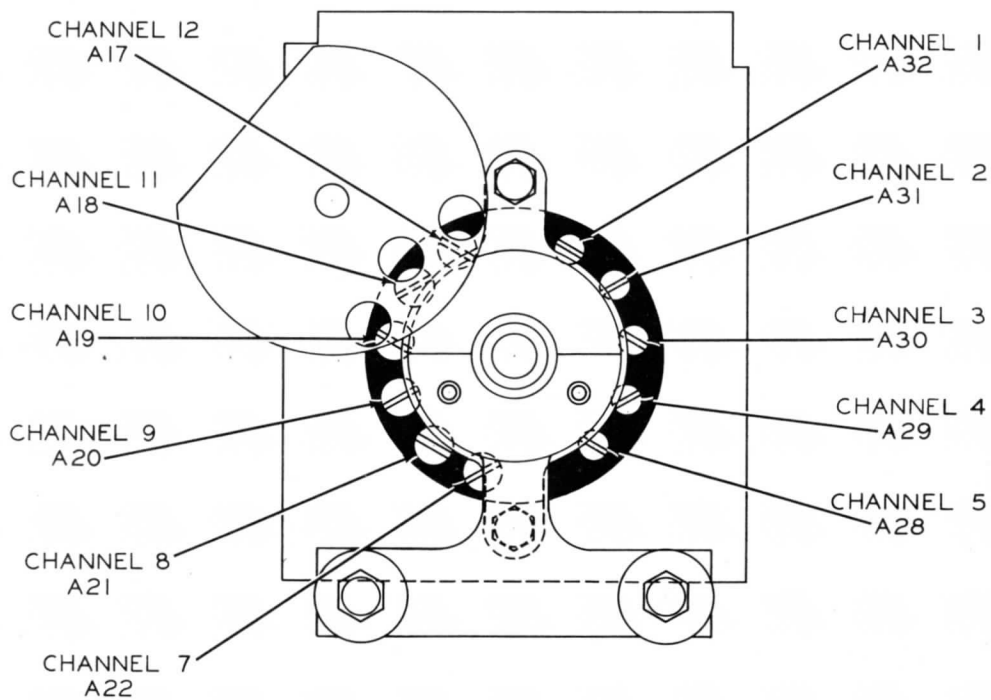
**EMERSON MODELS
571, 606 (Ch. 120066)**

CHASSIS BOTTOM VIEW—TRANSFORMER, INDUCTOR AND ALIGNMENT IDENTIFICATION.

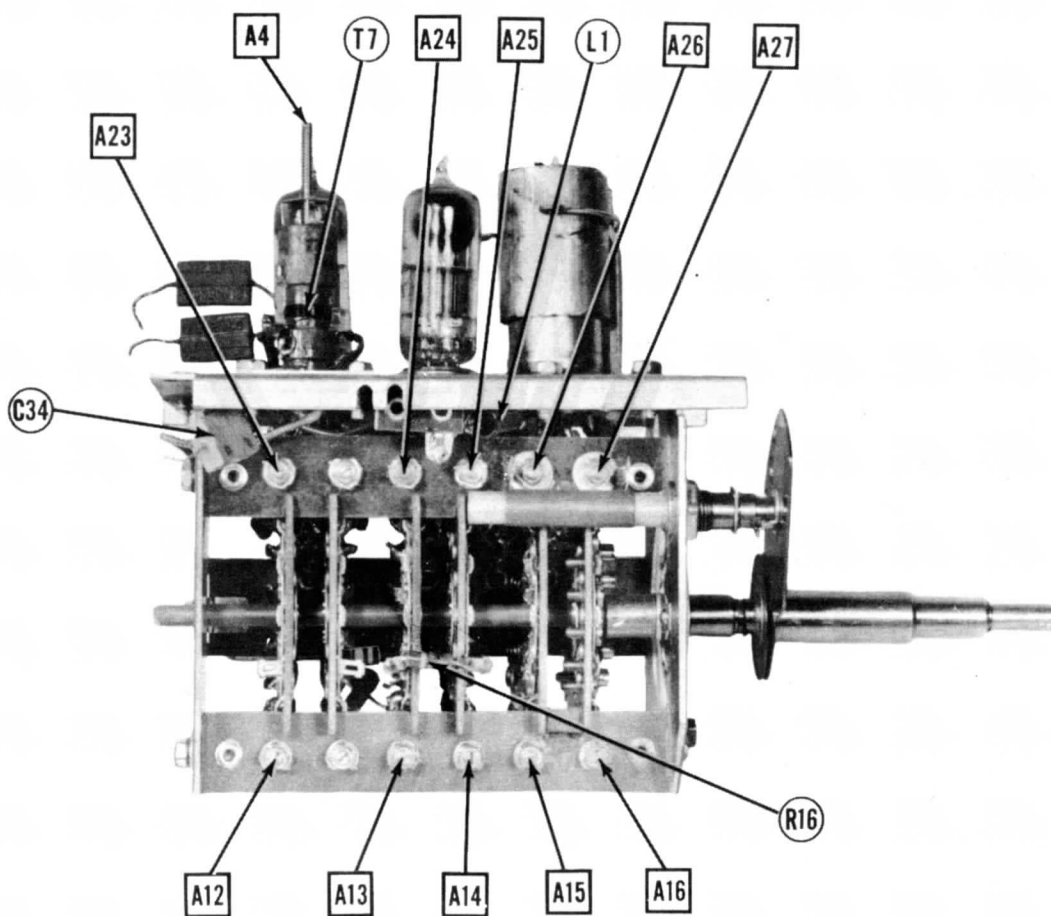
CHASSIS TOP VIEW-LEFT SIDE



EMERSON MODELS
571, 606 (Ch. 120066)

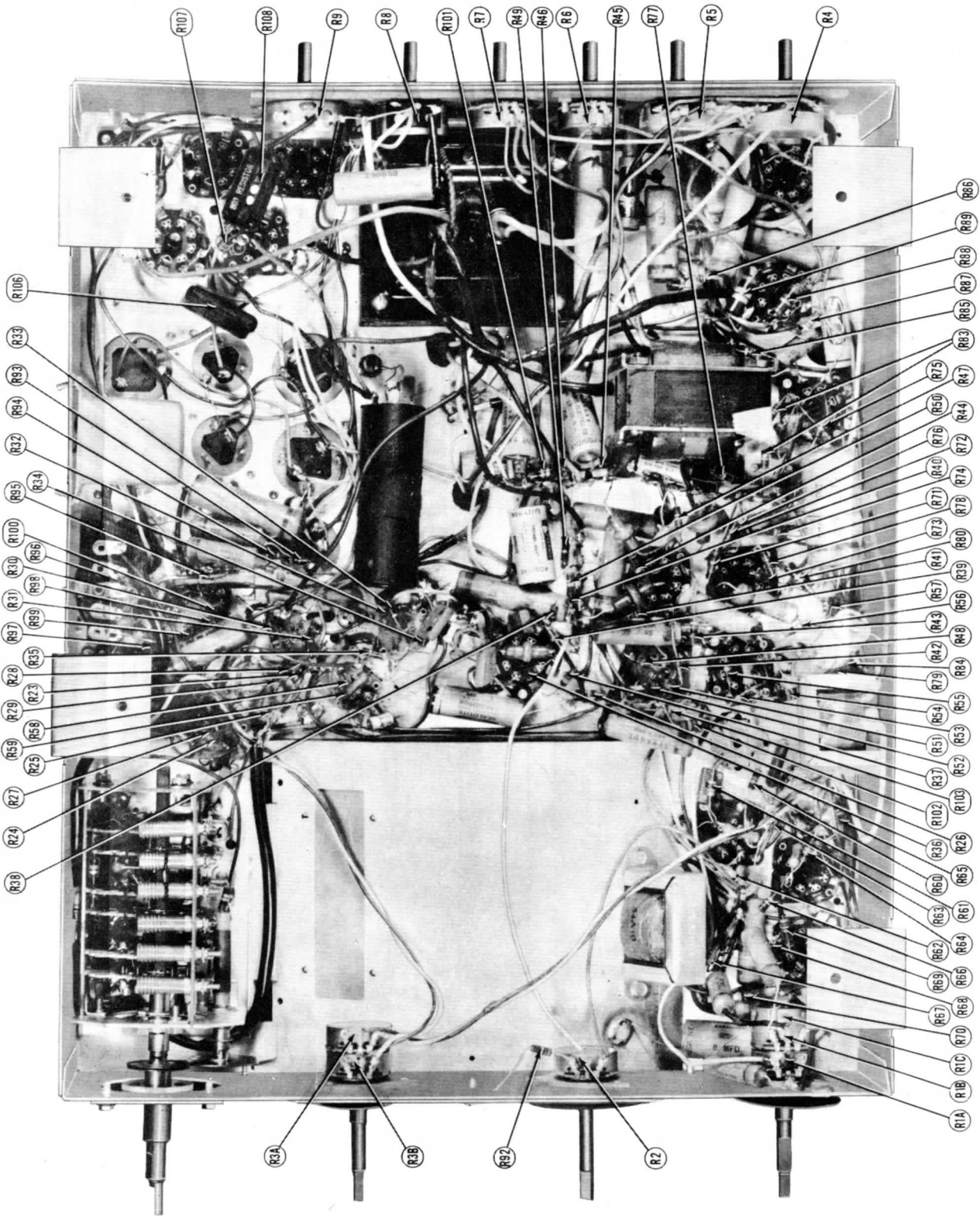


RF OSCILLATOR ALIGNMENT POINTS



TUNER ASSEMBLY - LEFT SIDE

**EMERSON MODELS
571, 606 (Ch. 120066)**



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		EMERSON PART No.	STANCOR PART No.	THORDAR'N PART No.	MERIT PART No.	
	PRI.	SEC.	PRI.	SEC.					
T6	7500Ω	4.1Ω	330Ω	.6Ω	734018	A3849	T22537	A2902	Sound output transformer.

R F COILS (RF & IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	EMERSON PART No.	MEISSNER PART No.	
T7	1st Video & Sound IF Trans.	.2Ω		720041		Part of Tuner Assembly Part #L50049
T8	2nd Video & Sound IF Trans.	.2Ω	0Ω	720042		
T9	3rd Video IF Trans.	.2Ω	0Ω	720043		
T10	4th Video IF Trans.	.2Ω	0Ω	720044		
T11	Sound IF Trans.	.2Ω	.2Ω	720027		
T12	Disc. Trans.	.5Ω	.5Ω	708008		
T13	Ant. Trans.	0Ω				Part of Tuner Assembly Part #950049
L1	Tuner Fil. Choke	0Ω				Part of Tuner Assembly Part #950049
L2	Mixer Grid Choke	.1Ω				
L3	Video Det. Peaking Coil	4Ω		708093		Inductance - 35 Micro Henry
L4	Video Peaking Coil	8.5Ω		708094		" - 125 " "
L5	"	11Ω		708095		" - 180 " "
L6	"	4Ω		708093		" - 35 " "

R F COILS (MISC.)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	EMERSON PART No.	MEISSNER PART No.	
L7	Hor. Osc. Grid Choke	75Ω		705009		Inductance - 3 Millihenries
L8	Hor. Linearity Coil	35Ω		708003		Slug Adjusted
L9	Hor. Size Coil	0Ω		708082		" "
L10A	Hor. Deflection Coil	14Ω		708030		
L10B	Vert. Deflection Coil	58Ω				
L11	Focus Coil	250Ω		708141		

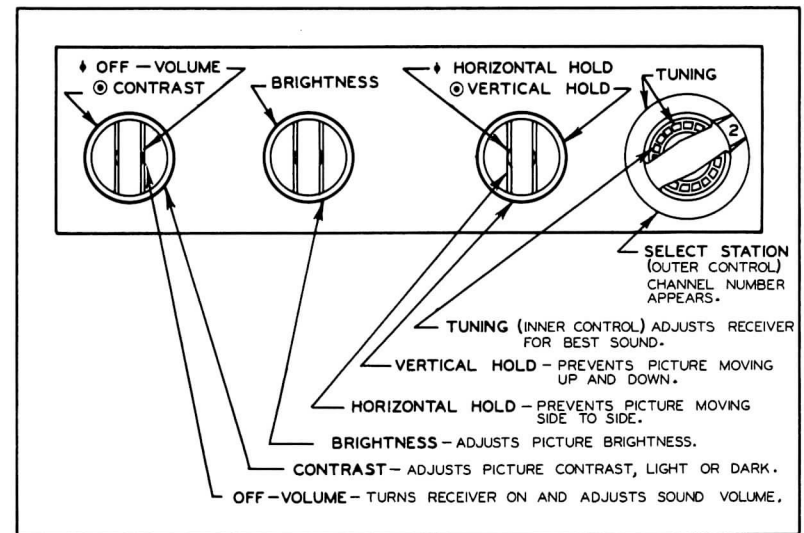
SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
	FIELD RES.	VC IMP.	EMERSON PART No.	JENSEN PART No.	QUAM PART No.	
SP-1A	PH	4.1Ω	180016		46A1	Used in Model 571 only.
1B	PH		180038			Alternate Speaker for 571
1C	PH		180050			Used in Model 608 only.
SP-2A	4"x6"	1/2"				Used in SP-1A.
2B	4"x6"	1/2"				Used in SP-1B.
2C	12"					Used in SP-1C.

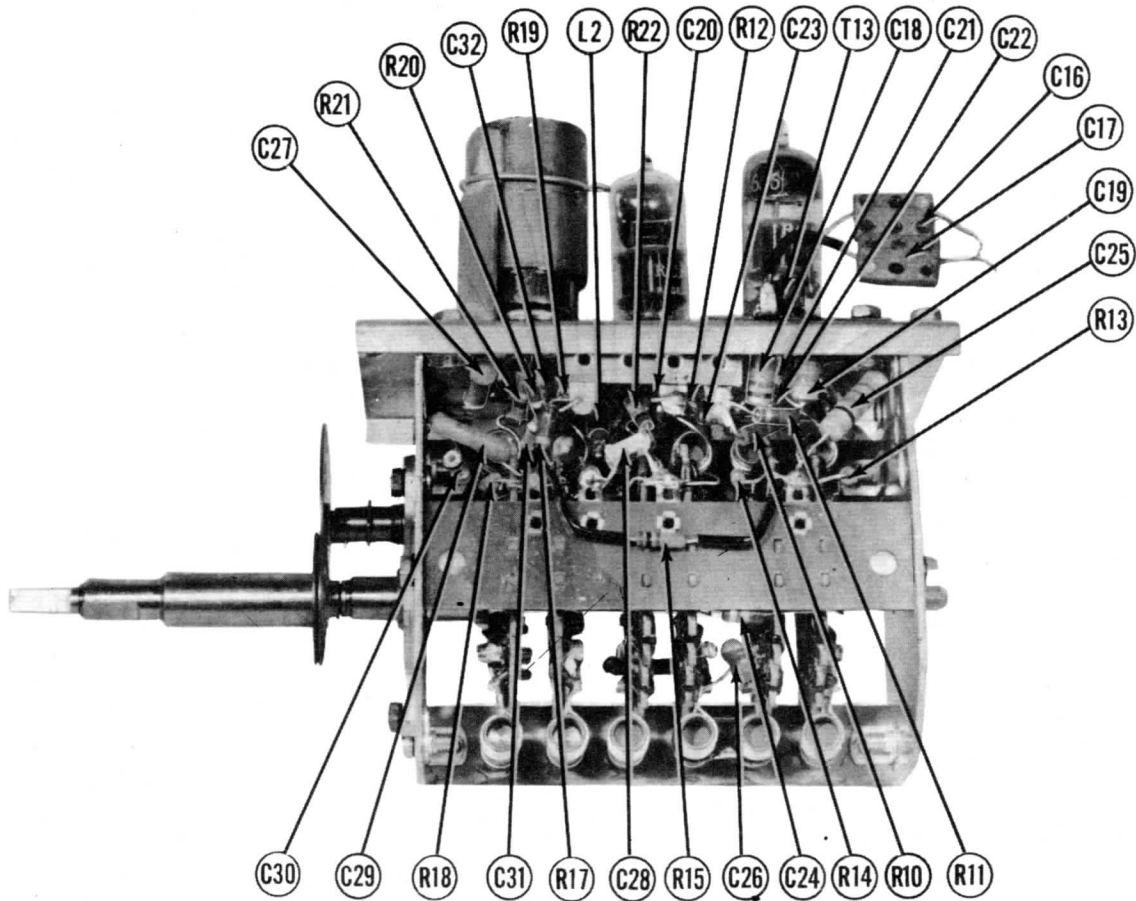
PARTS LIST AND DESCRIPTIONS (Continued)

MISCELLANEOUS

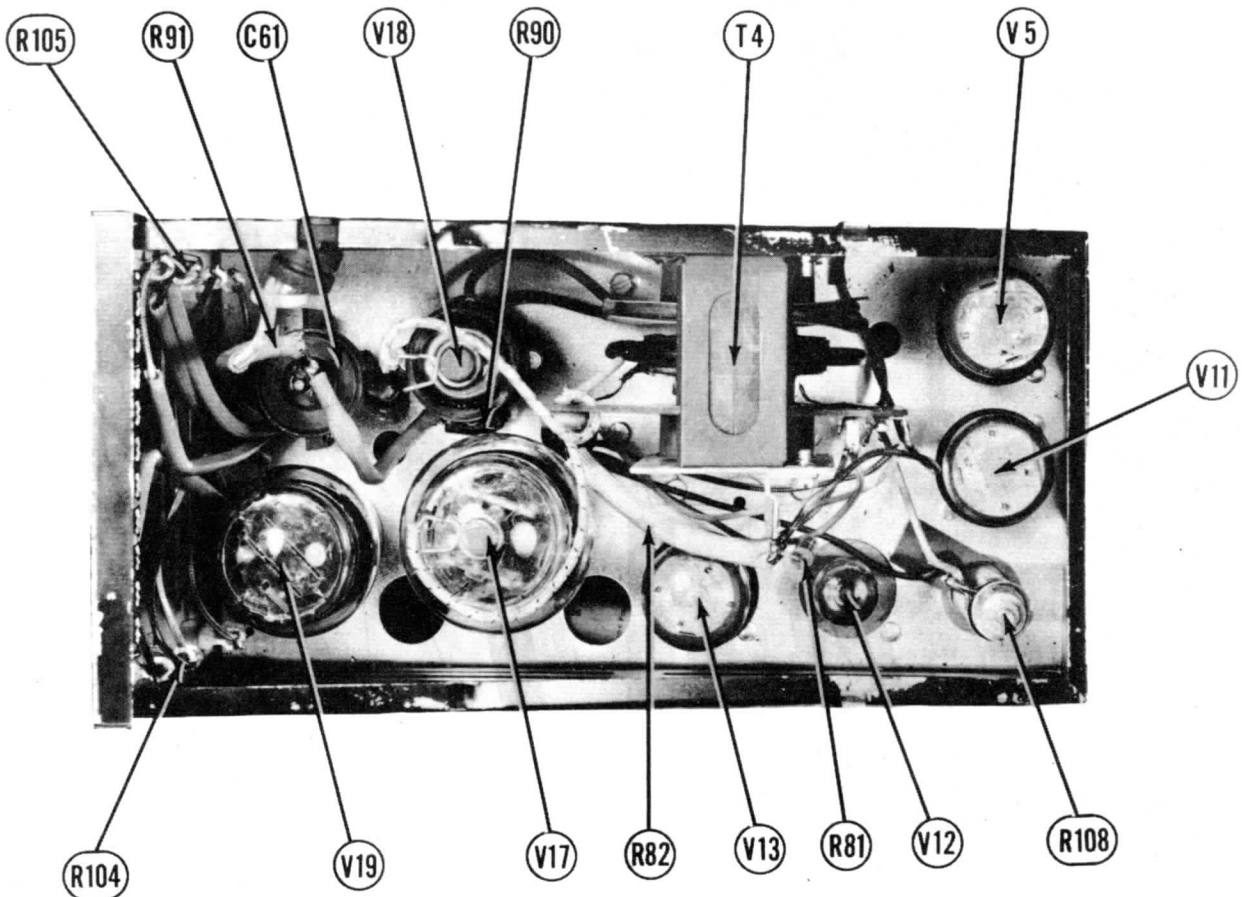
ITEM No.	PART NAME	EMERSON PART No.	NOTES
M1	Ion Trap	708084	Permanent Magnet Type Complete RF, Mixer and Osc. Assby. Picture Tube Socket and Cable Assby.
M2	Tuner Assembly	950049	
M3	Socket and Cable	470232	
M4	Speaker Socket	508010	
M5A	Speaker Plug	505040	Alternate Part
B	"	505043	
M6	Interlock Socket	470339	Includes Mounting Bracket
M7	Interlock Plug	505007	
	Cabinet	140146	Used in 571 only
	Safety Glass	635010	Used in 571 only
	Cabinet Back	620067	
	Line Cord & Plug	583014	Used in 571 only
	Knob-Fine Tuning	450036	
	Knob-Selector (With Hole)	450037	
	Knob-Selector	450031	
	Knob-Dual-Large	450032	
	Knob-Dual-Small	450034	
	Tube Front Mask	410352	



FRONT PANEL CONTROLS

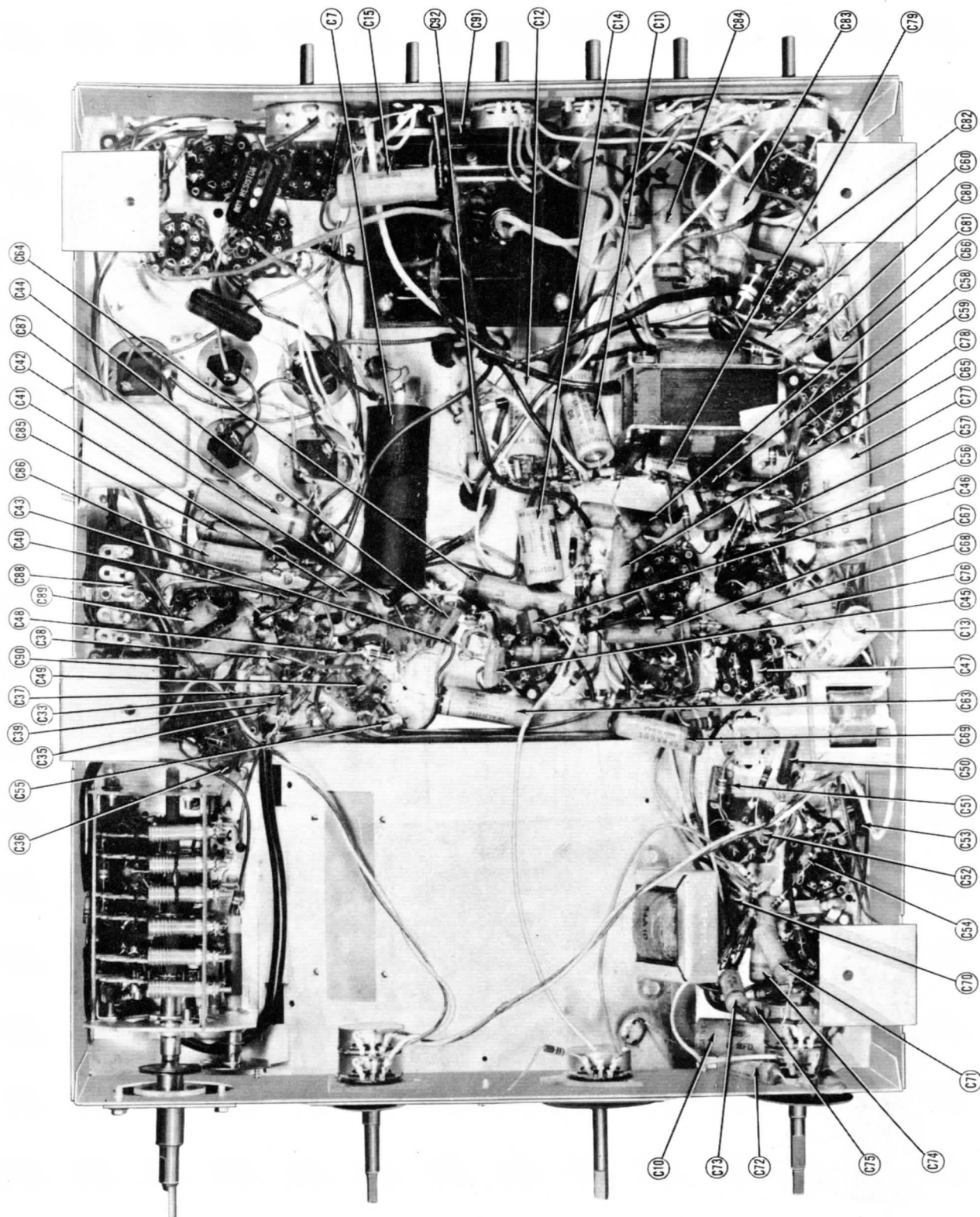


TUNER ASSEMBLY - RIGHT SIDE

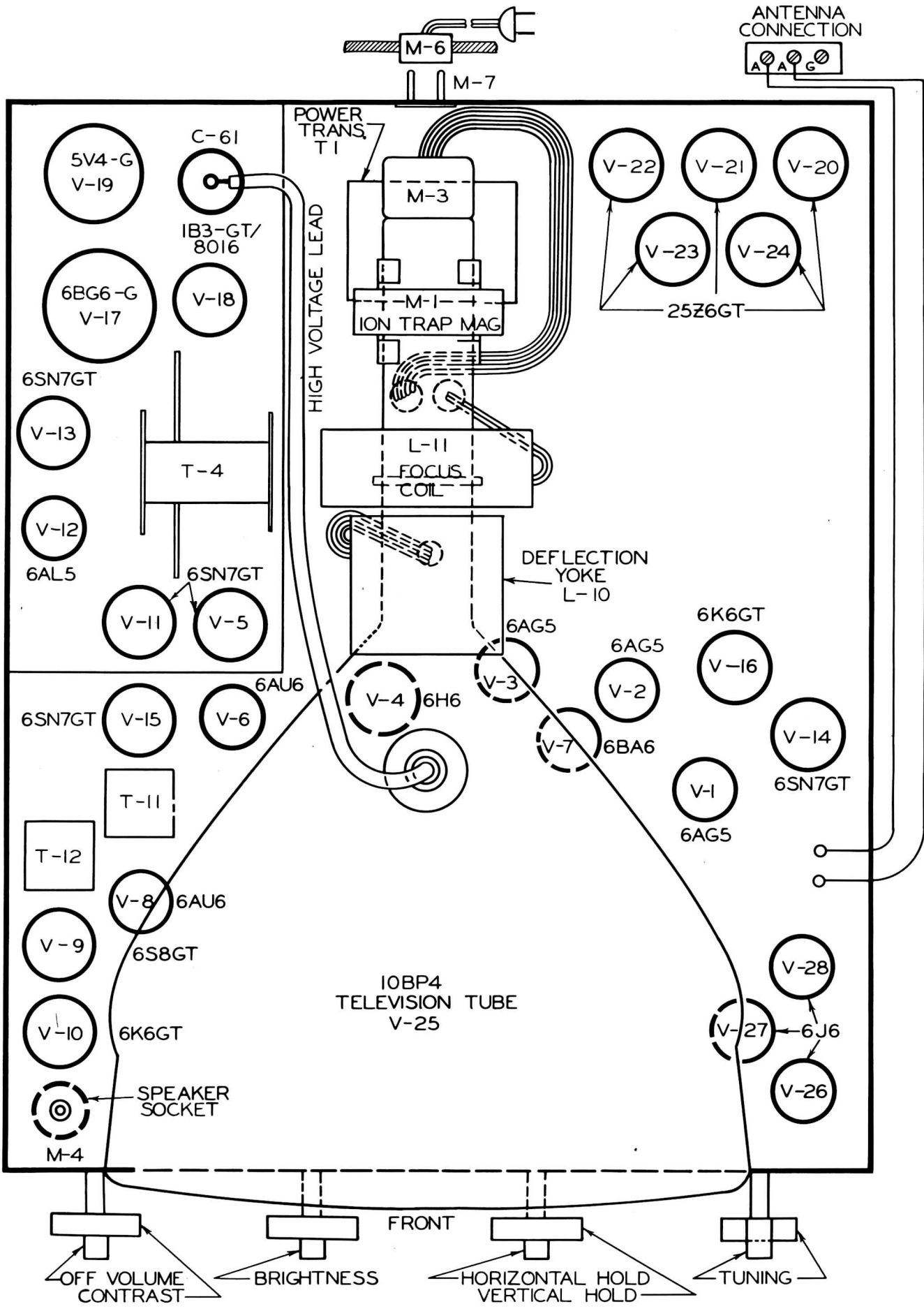


POWER SUPPLY UNIT - TOP VIEW

EMERSON MODELS
571, 606 (Ch. 120066)



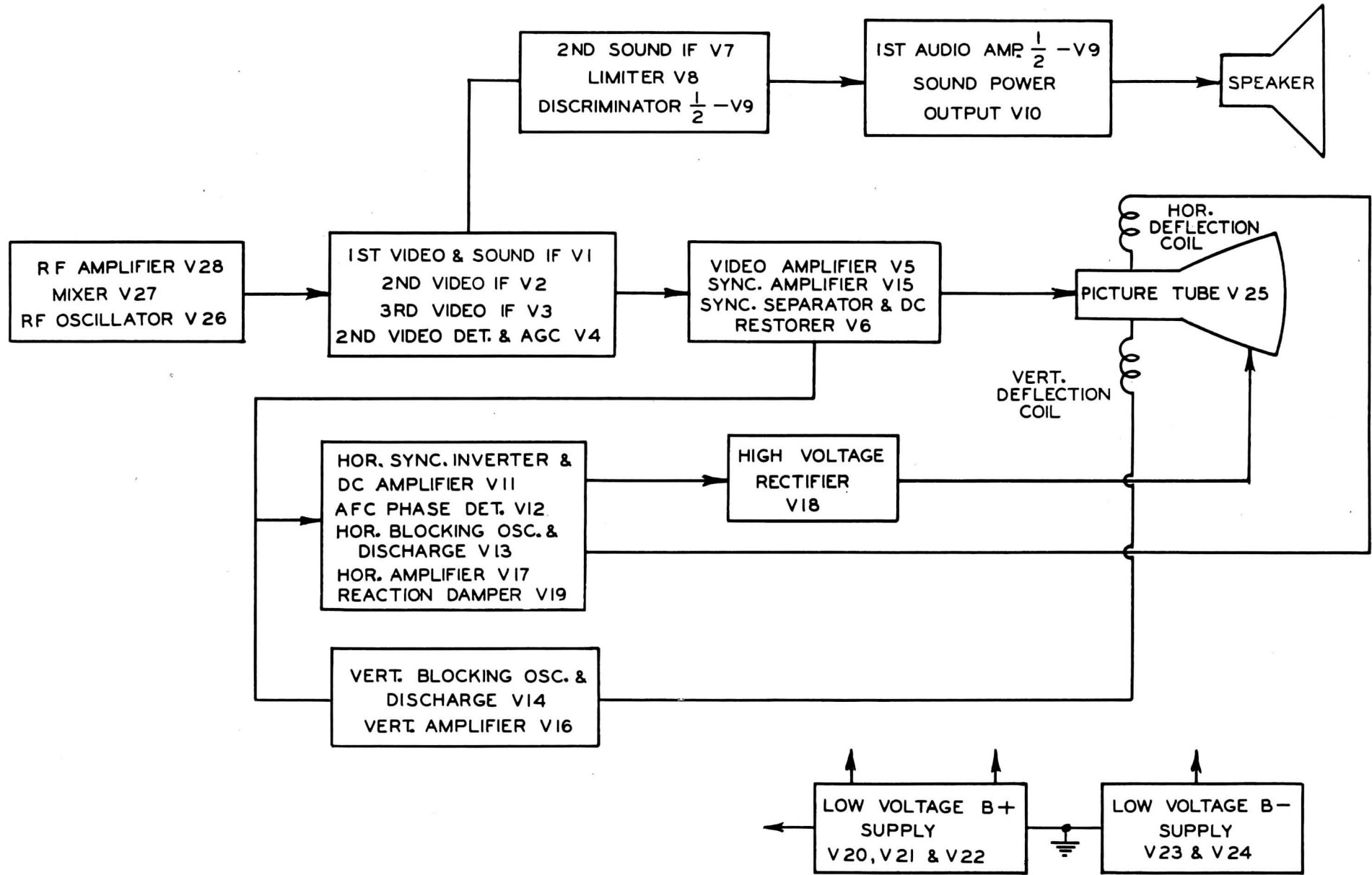
CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION



EMERSON MODELS
571, 606 (Ch. 120066)

TUBE PLACEMENT CHART

BLOCK DIAGRAM



DISASSEMBLY INSTRUCTIONS

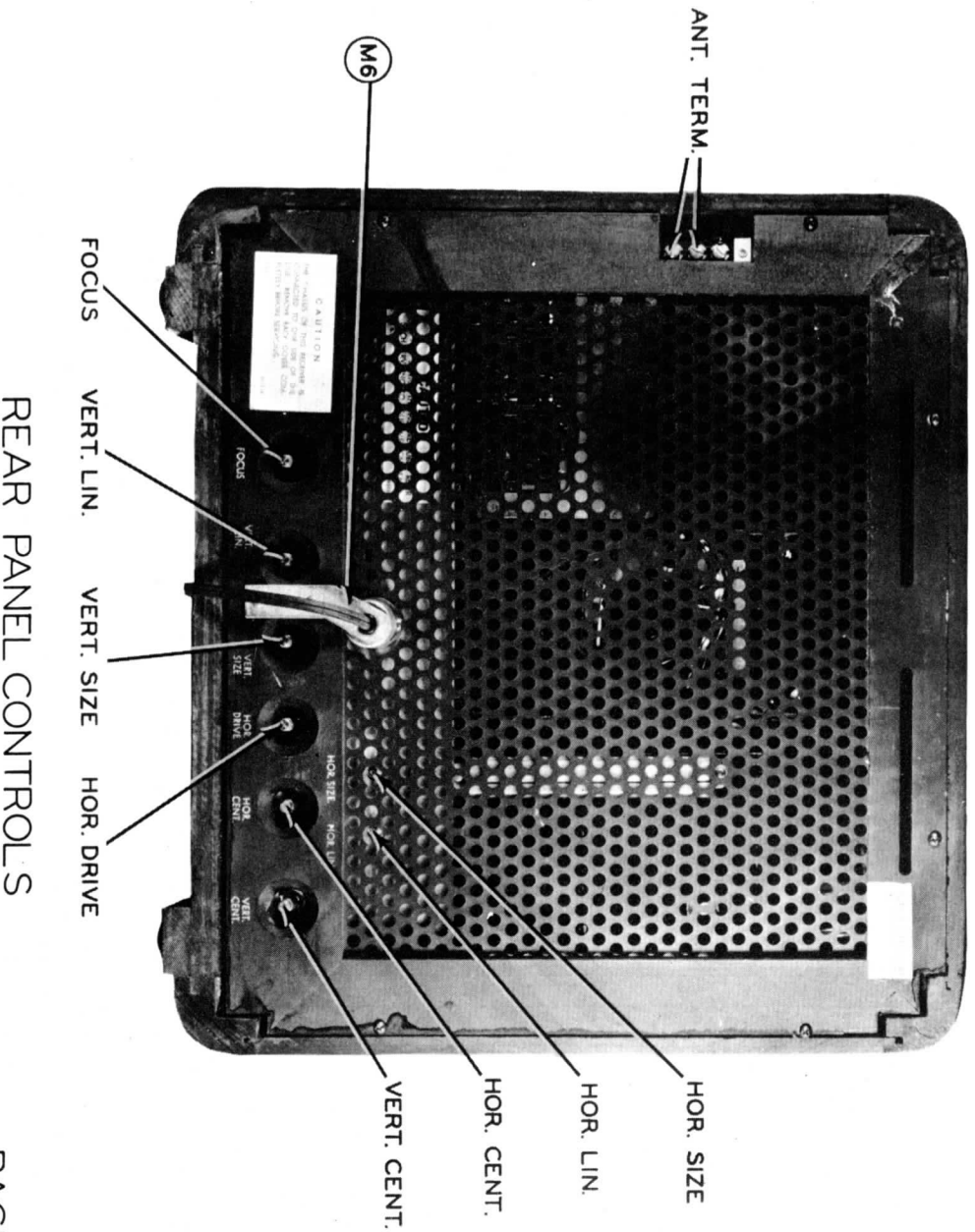
1. Remove all push-on type knobs from the front panel controls.
2. Remove the six Phillips screws holding the back panel and remove back.
3. Remove two screws holding antenna terminal strip.
4. Remove four screws from bottom.
5. Carefully slide chassis about half way out of cabinet. Lift the back end of chassis up slightly to prevent picture tube from binding on the top of the cabinet.
6. As the chassis is about half way out of the cabinet, unplug the speaker cable from the chassis. The chassis can now be removed.
7. Remove four nuts holding the speaker and remove the speaker.

PRECAUTIONS

It must be remembered that television receivers employ high voltages which in some cases can be lethal. Extreme care should be exercised at all times during the service procedure. The following suggestions may be of assistance:

1. Do not locate the service bench so that it is necessary for the operator to stand on a cement floor, near any grounded pipes or metallic objects.
2. Do not measure the high voltage anode supply unless such measurement is absolutely necessary. Usually a thorough resistance check will disclose any fault in the circuit.
3. Most service men prefer to disable the high voltage supply during alignment operations. This may be done by removing the horizontal blocking oscillator tube (Y13) from its socket.
4. If, during service operation, the anode supply lead should become disconnected from the cathode ray tube, the receiver should be turned off immediately and the high voltage capacitor discharged.

EMERSON MODELS
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RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
V1	6AG5	10K Ω	82 Ω	0 Ω	.1 Ω	1800 Ω †	1800 Ω †	82 Ω	-	-
V2	6AG5	3.5 Meg.	33 Ω	0 Ω	.1 Ω	1800 Ω †	1800 Ω †	33 Ω	-	-
V3	6AG5	10K Ω	150 Ω	0 Ω	.1 Ω	6000 Ω †	1300 Ω †	150 Ω	-	-
V4	6H6	0 Ω	0 Ω	4700 Ω	.2 Ω	2.2 Meg.	4700 Ω	.1 Ω	100K Ω	-
V5	6SN7GT	1 Meg.	7500 Ω †	75 Ω	1 Meg.	2200 Ω †	0 Ω	.1 Ω	0 Ω	-
V6	6AU6	1 Meg.	0 Ω	0 Ω	.1 Ω	220K Ω †	800 Ω †	22K Ω	-	-
V7	6BA6	0 Ω	0 Ω	0 Ω	.1 Ω	1800 Ω †	1800 Ω †	68 Ω	-	-
V8	6AU6	50K Ω	0 Ω	0 Ω	.1 Ω	1800 Ω †	10K Ω †	0 Ω	-	-
V9	6SBGT	100K Ω	0 Ω	100K Ω	INF.	200K Ω	470K Ω †	.1 Ω	0 Ω	15 Meg.
V10	6K6GT	0 Ω	0 Ω	520 Ω †	10K Ω †	470K Ω	210 Ω	.1 Ω	0 Ω	-
V11	6SN7GT	1 Meg.*	2400 Ω †	2200 Ω *†	INF.*	100K Ω †	1000 Ω *†	.1 Ω	0 Ω	-
V12	6AL5	INF.	INF.	0 Ω	.1 Ω	150K Ω *†	0 Ω	150K Ω *†	-	-
V13	6SN7GT	200K Ω †	5400 Ω †	0 Ω *†	200K Ω †	470K Ω †	0 Ω *†	.1 Ω	0 Ω	-
V14	6SN7GT	2.5 Meg.*	470K Ω †	0 Ω *†	2.5 Meg.*	100K Ω †	0 Ω *†	.1 Ω	0 Ω	-
V15	6SN7GT	1 Meg.	20K Ω †	0 Ω	1 Meg.	22K Ω †	0 Ω	.1 Ω	0 Ω	-
V16	6K6GT	INF.	0 Ω	10K Ω †	10K Ω †	5 Meg.*†	5000 Ω *† 10K Ω *†	.1 Ω	300 Ω *† 5000 Ω *†	-
V17	6BG6-G	INF.	0 Ω	100 Ω *†	0 Ω *†	470K Ω *†	0 Ω *†	.1 Ω	10K Ω †	7500 Ω †
V18	1B3GT	INF.	INF.	INF.	INF.	INF.	INF.	INF.	INF.	7800 Ω †
V19	5V4-G	INF.	7500 Ω †	INF.	160 Ω †	INF.	160 Ω †	INF.	7500 Ω †	-
V20	25Z6GT	INF.	0 Ω	0 Ω	80K Ω	80K Ω	INF.	10 Ω	0 Ω †	-
V21	25Z6GT	INF.	15 Ω	0 Ω	80K Ω	80K Ω	INF.	10 Ω	0 Ω †	-
V22	25Z6GT	INF.	16 Ω	0 Ω	80K Ω	80K Ω	INF.	15 Ω	0 Ω †	-
V23	25Z6GT	INF.	12 Ω	240 Ω *†	1 Meg.	1 Meg.	INF.	16 Ω	0 Ω	-
V24	25Z6GT	INF.	12 Ω	240 Ω *†	1 Meg.	1 Meg.	INF.	3 Ω	0 Ω	-
V25	10BP4									
V26	6J6	6000 Ω †	6000 Ω †	.1 Ω	0 Ω	100K Ω	100K Ω	47 Ω	-	-
V27	6J6	1800 Ω †	1800 Ω †	.1 Ω	0 Ω	1 Meg.	1 Meg.	0 Ω	-	-
V28	6J6	4200 Ω †	4200 Ω †	.1 Ω	0 Ω	3 Meg.	3 Meg.	0 Ω	-	-

TUBE	PIN 1	2	3	4	5	6	7	8	9	10	11	12
V25	10BP4	0 Ω	1 Meg.	INF.	INF.	INF.	INF.	INF.	INF.	200 Ω †	30K Ω †	.1 Ω

All resistance readings taken from chassis unless noted otherwise.

Set all front panel controls to full clockwise position.

†Readings taken from Pin #8 of V22 Rectifier Tube.

*Readings taken from Pin #6 of V14.

Where maximum and minimum readings are given, reading will vary depending on setting of rear panel controls.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1000 ohms.
2. Socket connections are shown as bottom views.
3. Line voltage maintained at 117 volts for voltage readings.

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
V1	6AG5	-.4VDC	.9VDC	OV.	6.3VAC	120VDC	120VDC	.9VDC	-	-
V2	6AG5	-1.1VDC	.2VDC	OV.	6.3VAC	125VDC	125VDC	.2VDC	-	-
V3	6AG5	OV.	1.8VDC	OV.	6.3VAC	120VDC	160VDC	1.8VDC	-	-
V4	6H6	OV.	OV.	-2.6VDC	OV.	-.2VDC	-.4VDC	6.3VAC	1.2VDC	-
V5	6SN7GT	OV.	105VDC	.8VDC	-.5VDC	117VDC	OV.	6.3VAC	OV.	-
V6	6AU6	OV.	OV.	OV.	6.3VAC	100VDC	132VDC	4.2VDC	-	-
V7	6BA6	OV.	OV.	OV.	6.3VAC	120VDC	125VDC	1.4VDC	-	-
V8	6AU6	-.4VDC	OV.	OV.	6.3VAC	122VDC	95VDC	OV.	-	-
V9	6SBGT	-.3VDC	OV.	-.3VDC	-.5VDC	-.1VDC	82VDC	6.3VAC	OV.	-.7VDC
V10	6K6GT	OV.	OV.	170VDC	150VDC	-2.8VDC	-9.7VDC	6.3VAC	OV.	-
V11	6SN7GT	OV.*	370VDC*	15VDC*	OV.*	28VDC*	1.2VDC*	6.3VAC	OV.	-
V12	6AL5	OV.*	OV.*	OV.	6.3VAC	.6VDC*	OV.	-.6VDC	-	-
V13	6SN7GT	-60VDC*	340VDC*	OV.*	-60VDC*	75VDC*	OV.*	6.3VAC	OV.	-
V14	6SN7GT	-145VDC*	280VDC*	OV.*	-145VDC*	300VDC*	OV.*	6.3VAC	OV.	-
V15	6SN7GT	OV.	70VDC	OV.	-.5VDC	68VDC	OV.	6.3VAC	OV.	-
V16	6K6GT	OV.	OV.	360VDC*	360VDC*	OV.*	34VDC*	6.3VAC	34VDC*	-
V17	6BG6-G	OV.	OV.	9VDC*	OV.*	-13VDC*	OV.*	6.3VAC	225VDC*	†
V18	1B3GT		DO NOT MEASURE.							
V19	5V4-G	OV.	480VDC*	OV.	400VDC*	OV.	400VDC*	OV.	480VDC*	-
V20	25Z6GT	OV.	OV.	OV.	145VAC	145VAC	OV.	25VAC	220VDC	-
V21	25Z6GT	OV.	50VAC	OV.	145VAC	145VAC	OV.	25VAC	220VDC	-
V22	25Z6GT	OV.	50VAC	OV.	145VAC	145VAC	OV.	75VAC	220VDC	-
V23	25Z6GT	OV.	100VAC	-237VDC	150VAC	150VAC	OV.	75VAC	OV.	-
V24	25Z6GT	OV.	100VAC	-237VDC	150VAC	150VAC	OV.	125VAC	OV.	-
V25	10BP4									
V26	6J6	75VDC	75VDC	6.3VAC	OV.	-11VDC#	-11VDC#	.2VDC	-	-
V27	6J6	130VDC	130VDC	6.3VAC	OV.	-3.1VDC	-4.3VDC	OV.	-	-
V28	6J6	105VDC	105VDC	6.3VAC	OV.	-.7VDC	-.7VDC	OV.	-	-

TUBE	PIN 1	2	3	4	5	6	7	8	9	10	11	12
V25	10BP4	OV.	.8VDC	OV.	OV.	OV.	OV.	OV.	OV.	180VDC	7.5VDC	6.3VAC

*Do not measure.

#Measured with VTVM.

*Readings taken from Pin #6 of V14.