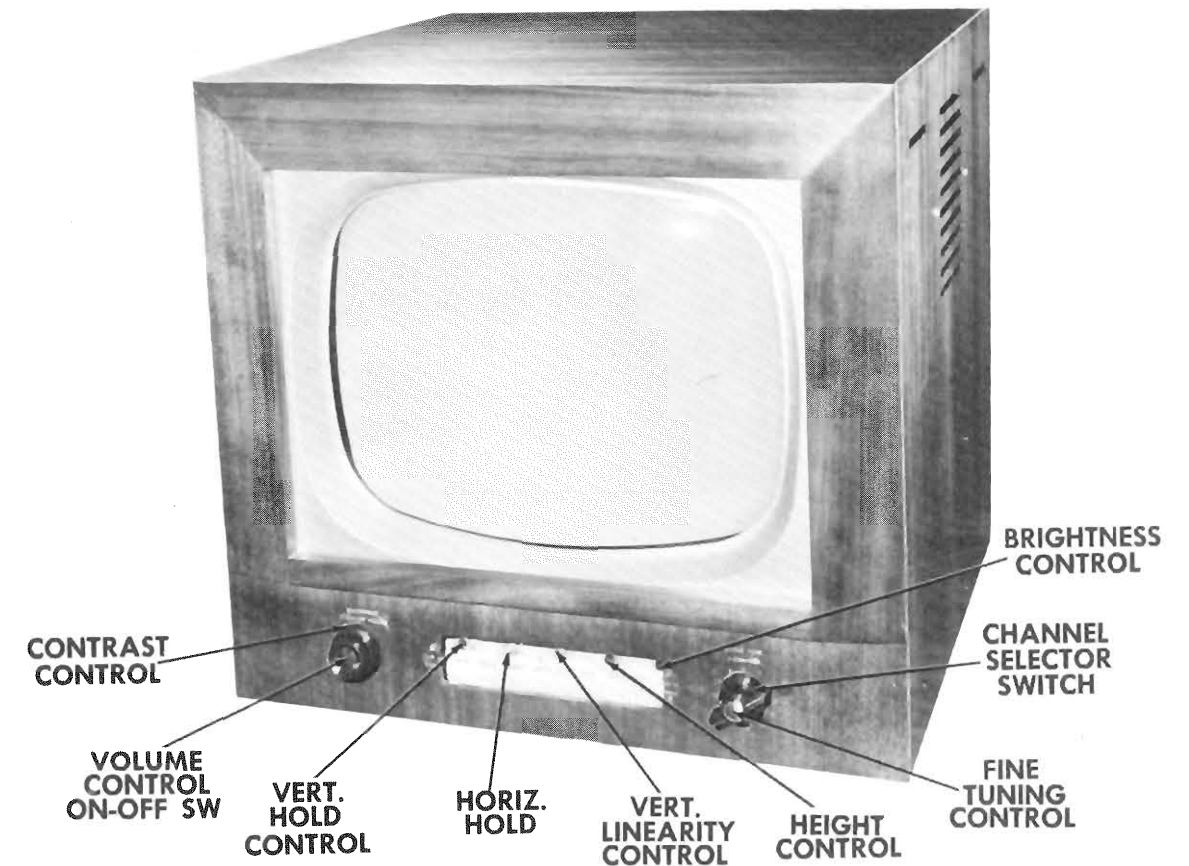


FOR RESISTOR AND INDUCTOR IDENTIFICATION



JACKSON  
CH. 114H, 116H, 117H, 120H

Jackson Chassis 117H

TRADE NAME	Jackson Chassis 114H, 116H, 117H, 120H
MANUFACTURER	Jackson Ind., Inc., 58E. Cullerton St., Chicago, Ill.
TYPE SET	Television Receiver
TUBES	Twenty
POWER SUPPLY	110-120 Volts AC-60 Cycle
TUNING RANGE—BROADCAST	Channels 2 thru 13
	RATING 1.7 Amp. @117 Volts AC

# INDEX

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HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

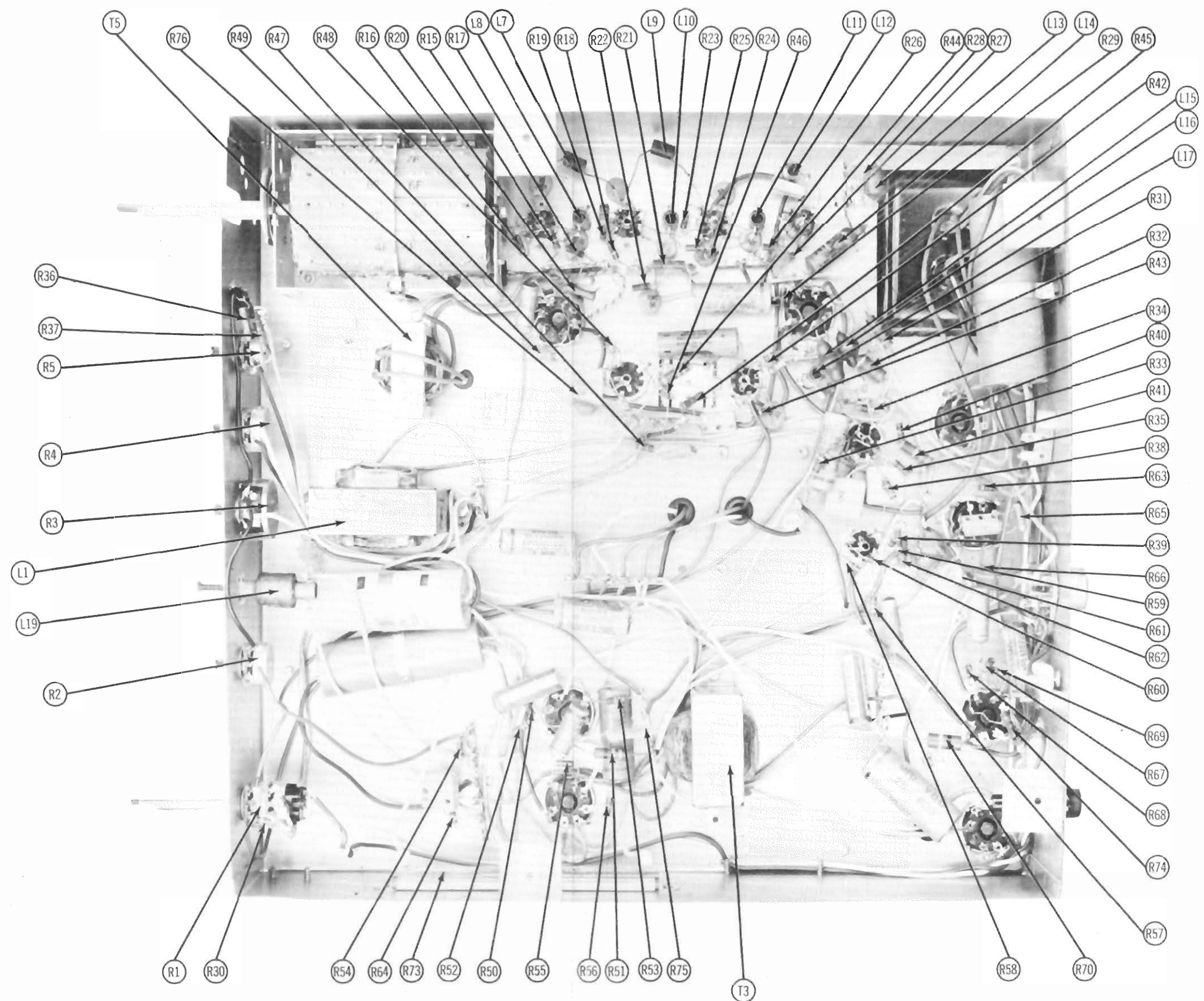
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."

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DATE 3-52

SET 162

FOLDER 7



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

CONTRAST  
CONTROL

VOLUME  
CONTROL  
ON-OFF

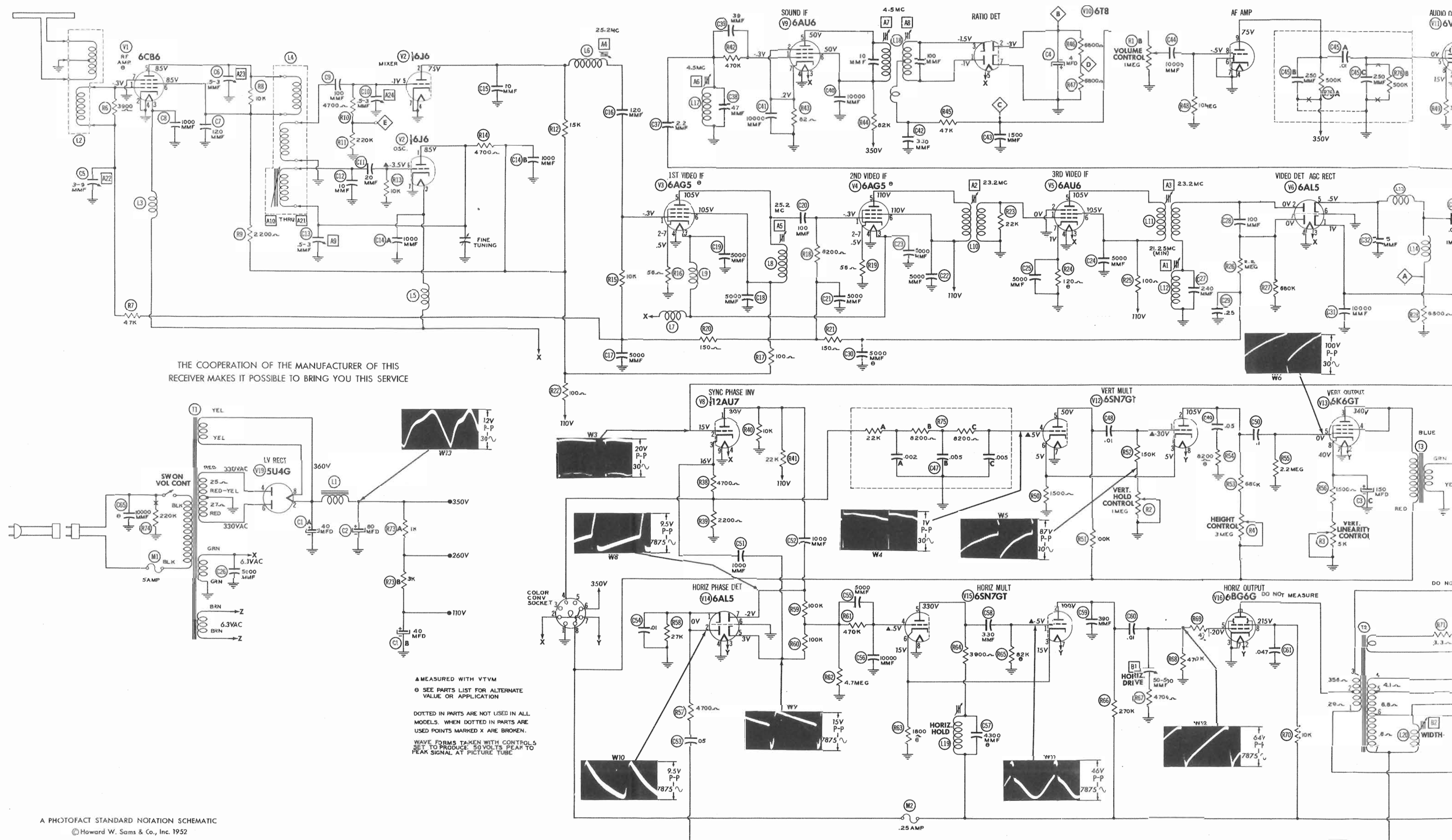
TRADE NAME  
MANUFACTURER  
TYPE SET  
TUBES

POWER SUPPLY  
TUNING RANGE-BF

Alignment Instruc  
Disassembly Inst  
Horizontal Sweep  
Parts List and De  
Photographs

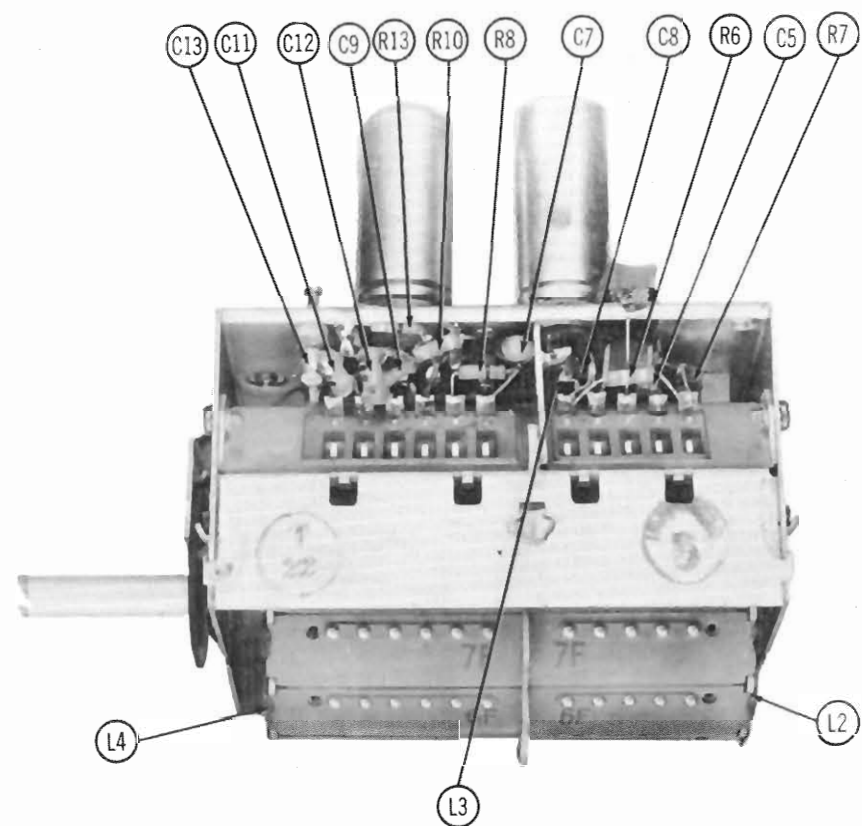
Cabinet - R  
Capacitor a

"The listing of any availab  
case a recommendation, w  
as to the quality and suita  
parts have been compiled  
inc., by the manufacturers  
"Reproduction or use, will

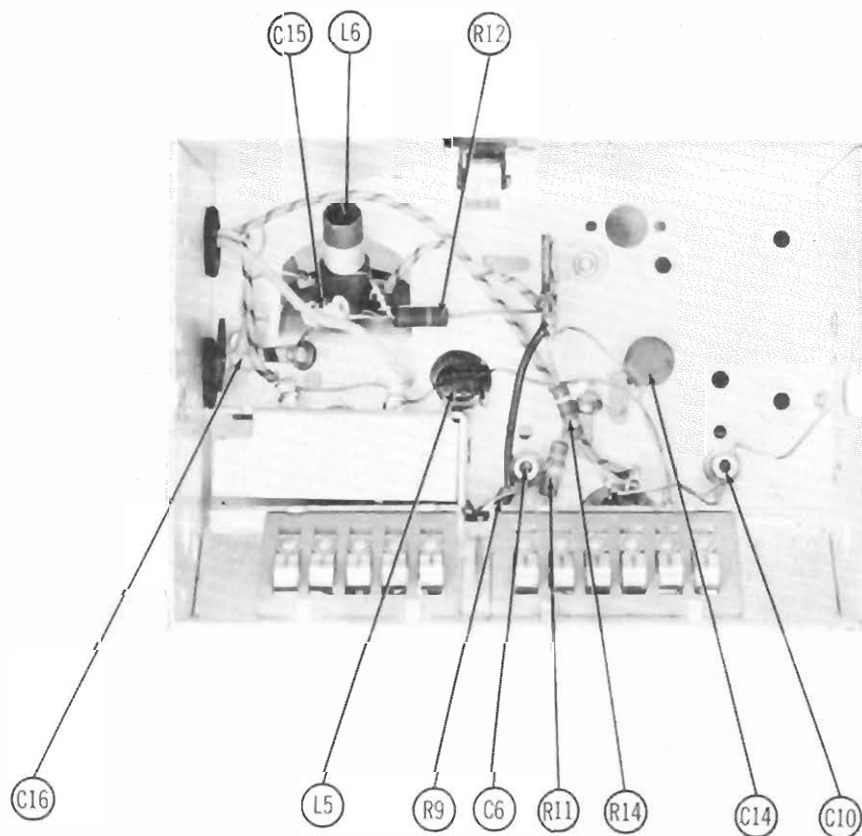




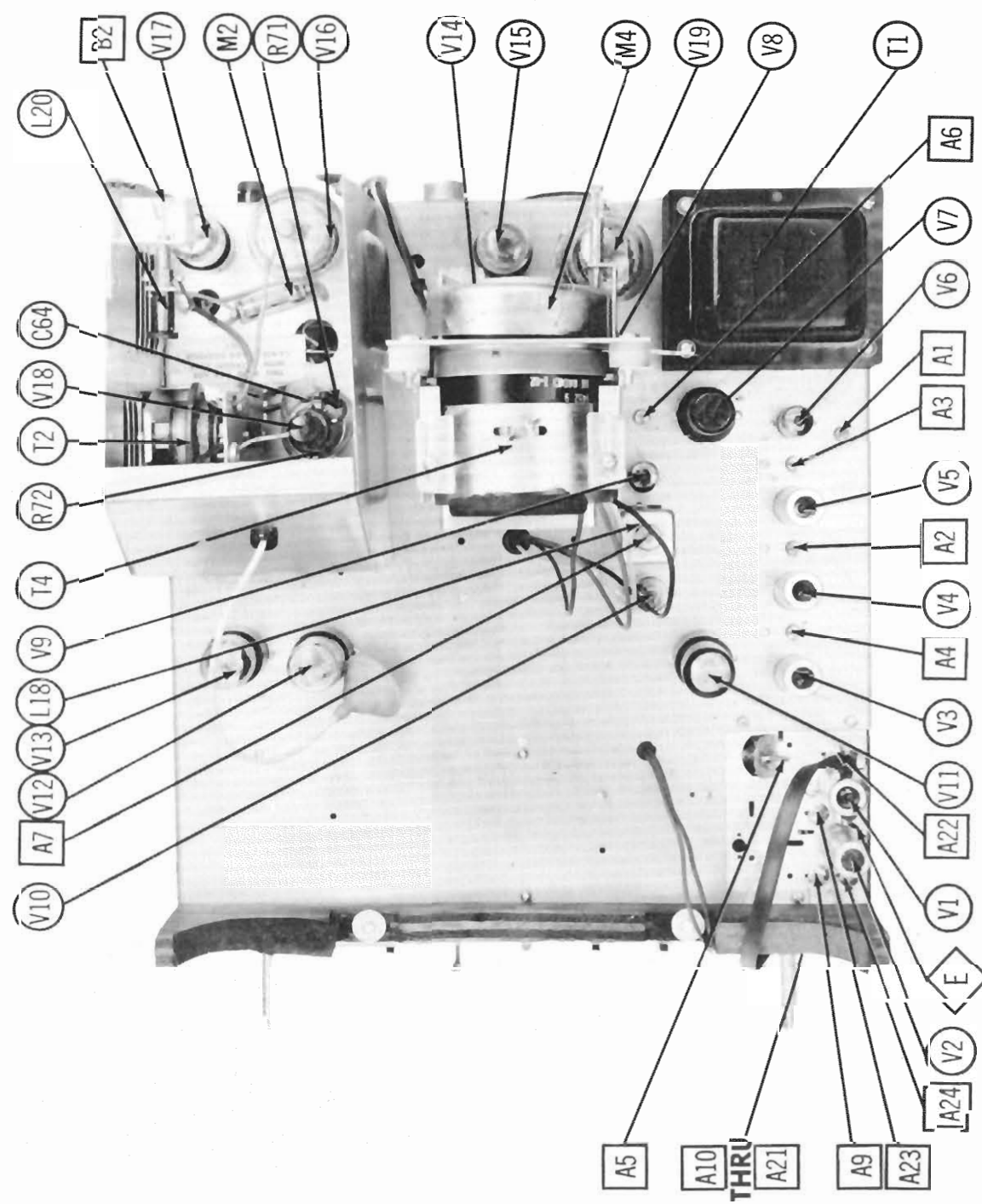




RF TUNER-RIGHT SIDE

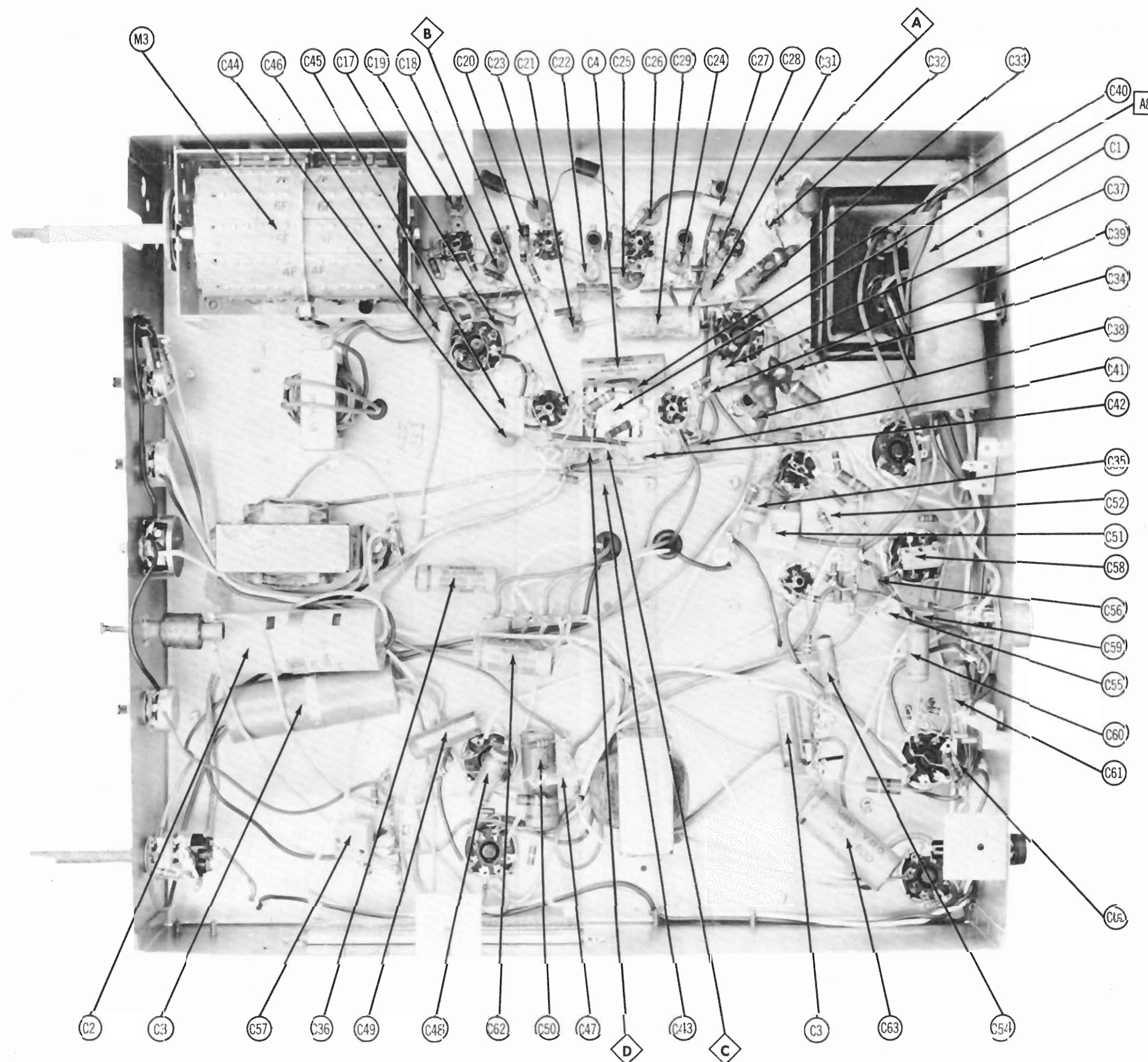


RF TUNER-BOTTOM VIEW



W.E.A. TOP CHASSIS

JACKSON  
CH. 114H, 116H, 117H, 120H



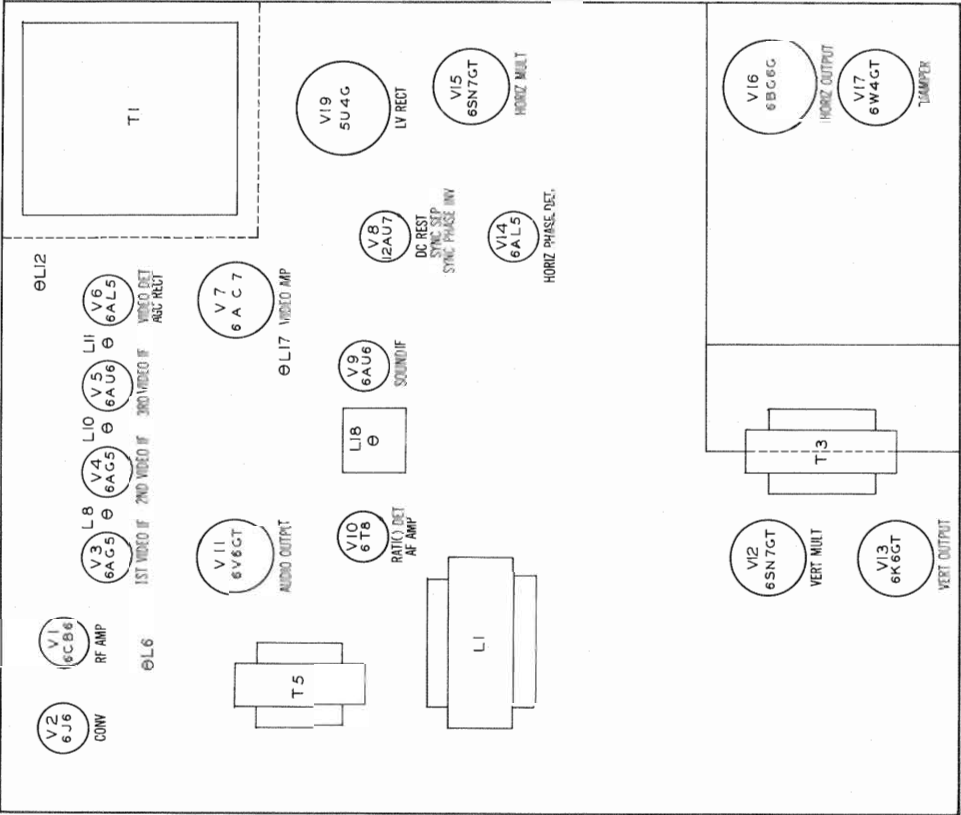
CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

RESISTANCE MEASUREMENTS

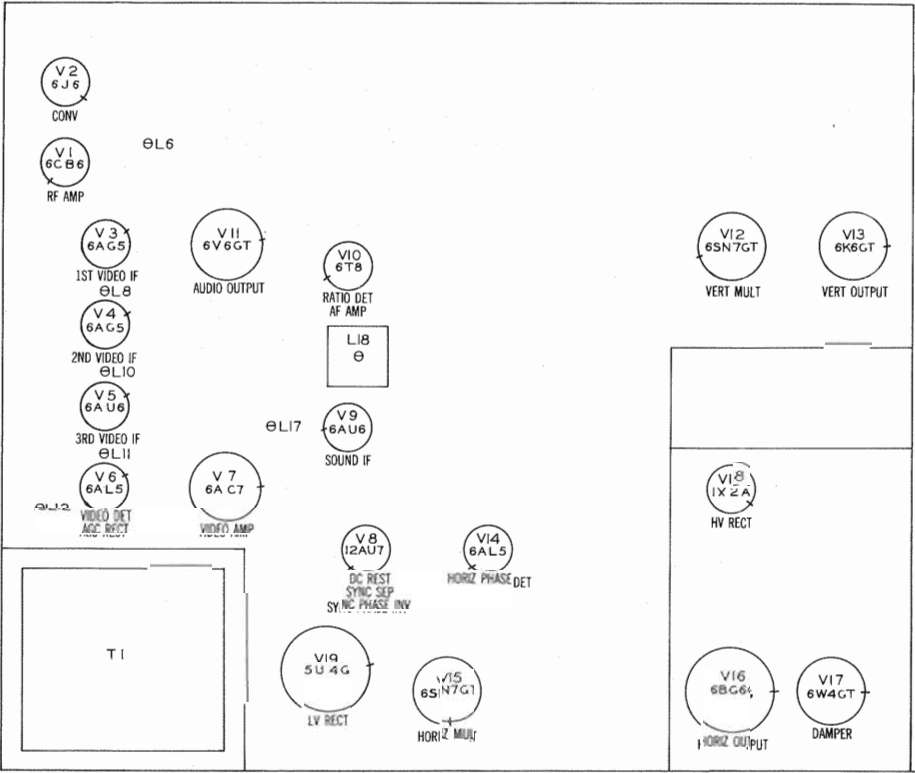
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	2.9Meg	0Ω	.1Ω	0Ω	†6.3KΩ	†6.3KΩ	0Ω		
V 2	6J6	†8.8KΩ	†19KΩ	.1Ω	0Ω	220KΩ	10KΩ	0Ω		
V 3	6AG5	2.9Meg	56Ω	.1Ω	0Ω	†4.2KΩ	†4.2KΩ	56Ω		
V 4	6AG5	2.9Meg	56Ω	.1Ω	0Ω	†4KΩ	†4KΩ	56Ω		
V 5	6AU6	.2Ω	0Ω	.1Ω	0Ω	†4.1KΩ	†4.1KΩ	120Ω		
V 6	6AL5	800Ω	.3Ω	.1Ω	0Ω	6.8KΩ	0Ω	680KΩ		
V 7	6AC7	0Ω	.1Ω	0Ω	1Meg	300Ω	†80KΩ	0Ω	†5.6KΩ	
V 8	12AU7	7KΩ	†1Meg	6.9KΩ	.1Ω	.1Ω	†1Meg	0Ω	270KΩ	0Ω
V 9	6AU6	470KΩ	82Ω	.1Ω	0Ω	†82KΩ	†82KΩ	82Ω		
V 10	6T8	1Meg	13KΩ	1Meg	0Ω	.1Ω	0Ω	0Ω	10Meg	†500KΩ
V 11	6V6GT	Inf	0Ω	†1.3KΩ	†1KΩ	500KΩ	Inf	.1Ω	390Ω	
V 12	6SN7GT	600KΩ	†1.2Meg	1.5KΩ	42KΩ	†100KΩ	1.5KΩ	0Ω	.1Ω	
V 13	6K6GT	†80KΩ	.1Ω	†855Ω	†855Ω	2.2Meg	800Ω	0Ω	2.3KΩ	
V 14	6AL5	27KΩ	27KΩ	.1Ω	0Ω	4.8Meg	0Ω	4.8Meg		
V 15	6SN7GT	82KΩ	†270KΩ	1.8KΩ	5.1Meg	†4KΩ	1.8KΩ	.1Ω	0Ω	
V 16	6BG6G	Inf	.1Ω	0Ω	470KΩ	470KΩ	Inf	0Ω	†10KΩ	TOP CAP #29Ω
V 17	6W4GT	Inf	Inf	Inf	Inf	†70Ω	Inf	†.1Ω	†0Ω	TOP CAP #385Ω
V 18	1X2A	PINS 1 THROUGH 9 HAVE INF RESISTANCE								
V 19	5U4G	Inf	28KΩ	Inf	25Ω	Inf	27Ω	Inf	28KΩ	
V 20	17BP4	0Ω	†70KΩ	†55Ω	60KΩ	.1Ω				

ALL CONTROLS SET FOR NORMAL OPERATION, NO SIGNAL APPLIED  
† MEASURED FROM PIN 8 OF V19  
# MEASURED FROM PIN 3 OF V17  
‡ MEASURED FROM PIN 8 OF V17

JACKSON  
CH. 114H, 116H, 117H, 120H



BOTTOM VIEW











TOP VIEW


TUBE PLACEMENT CHART



# ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
The end of the high voltage lead should be securely taped and kept away from the chassis. Do not remove the horizontal oscillator to disable the high voltage.							
VIDEO IF ALIGNMENT							
Remove the converter tube, (V2) from its socket and replace it with a 6J6 which has Pin 1 removed, this will disable the local oscillator and prevent the possibility of erroneous indications.							
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.	21.25MC (unmod)	Any	DC probe to point  Common to chassis.	A1	Adjust for MINIMUM deflection.	
2. "	"	23.2MC	"	"	A2, A3	Adjust for maximum deflection. Attenuate signal gen. to maintain 1 volt reading.	
3. "	"	25.2MC	"	"	A4, A5	"	
OVERALL VIDEO IF RESPONSE CHECK							
Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Connect the negative lead of a 1.5 volt battery to the ungrounded lead of C29, connect the positive lead to chassis.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. Direct	High side to an ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	24.5MC (10MC Swp)	21.25MC 22MC 24.3MC 25.75MC	Any	Vert Amp. to point  Low side to chassis.		Check for response curve similar to fig.1. If necessary retouch A2 thru A5 for proper response.
SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
5. .001MFD	High side to pin 4, (grid) of 6AC7, (V7). Low side to chassis.	4.5MC (unmod)	Any	DC probe to point  Common to chassis.	A6, A7	Adjust for maximum deflection.	
6. "	"	"	"	DC probe to point  Common to point 	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 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
5. .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  Low side to chassis.	A6, A7	Disconnect stabilizer capacitor C4. Adjust for maximum amplitude and symmetry as per fig. 2.
6. "	"	"	"	"	Vert. Amp. to point  Low side to chassis.	A8	Reconnect capacitor C4. 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. 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 A9. 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 A9 will not bring all channels well within the range of the fine tuning control, it will be necessary to adjust the channel strip adjustment for each channel that is off frequency. The channel strip 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. 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
7. Two 210Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC swp.)	211.25MC 215.75MC	13	Vert. amp. to Point  Low side to chassis.	A10	Adjust to place sound marker in notch as shown in Fig. 4. The video marker should be at 50%.
		207MC (10MC swp.)	205.25MC 209.75MC	12		A11	
		201MC (10MC swp.)	199.25MC 203.75MC	11		A12	
		195MC (10MC swp.)	193.25MC 197.75MC	10		A13	
		189MC (10MC swp.)	187.25MC 191.75MC	9		A14	
		183MC (10MC swp.)	181.25MC 185.75MC	8		A15	
		177MC (10MC swp.)	175.25MC 179.75MC	7		A16	
		171MC (10MC swp.)	169.25MC 173.75MC	6		A17	
		165MC (10MC swp.)	163.25MC 167.75MC	5		A18	
		159MC (10MC swp.)	157.25MC 161.75MC	4		A19	
		153MC (10MC swp.)	151.25MC 155.75MC	3		A20	
		147MC (10MC swp.)	145.25MC 149.75MC	2		A21	
		141MC (10MC swp.)	139.25MC 143.75MC				
		135MC (10MC swp.)	133.25MC 137.75MC				
		129MC (10MC swp.)	127.25MC 131.75MC				
		123MC (10MC swp.)	121.25MC 125.75MC				
		117MC (10MC swp.)	115.25MC 119.75MC				
		111MC (10MC swp.)	109.25MC 113.75MC				
		105MC (10MC swp.)	103.25MC 107.75MC				

# ALIGNMENT INSTRUCTIONS (CONT.)

RF & MIXER ALIGNMENT							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Two 120Ω carbon resistors	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.	A22, A23 A24	Adjust for response curve similar to Fig. 5. with markers above 90%.
"	"	213MC (10MC swp.)	211.25MC 215.75MC	13	"		Check all channels for response curve similar to Fig. 5. If markers fall below 70% on any channel make slight adjustment of A22, A23 and A24 with channel switch set for that channel. Recheck all channels to see that they have not been seriously affected.
		201MC (10MC swp.)	199.25MC 203.75MC	11			
		195MC (10MC swp.)	193.25MC 197.75MC	10			
		189MC (10MC swp.)	187.25MC 191.75MC	9			
		183MC (10MC swp.)	181.25MC 185.75MC	8			
		177MC (10MC swp.)	175.25MC 179.75MC	7			
		171MC (10MC swp.)	169.25MC 173.75MC	6			
		165MC (10MC swp.)	163.25MC 167.75MC	5			
		159MC (10MC swp.)	157.25MC 161.75MC	4			
		153MC (10MC swp.)	151.25MC 155.75MC	3			
		147MC (10MC swp.)	145.25MC 149.75MC	2			
		141MC (10MC swp.)	139.25MC 143.75MC				
		135MC (10MC swp.)	133.25MC 137.75MC				
		129MC (10MC swp.)	127.25MC 131.75MC				
		123MC (10MC swp.)	121.25MC 125.75MC				

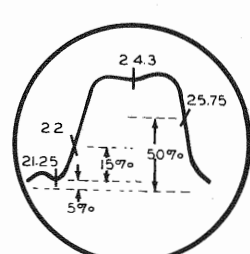


FIG. 1

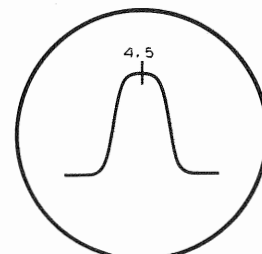


FIG. 2

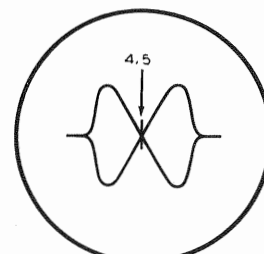


FIG. 3

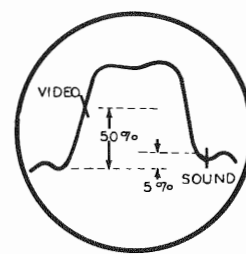


FIG. 4

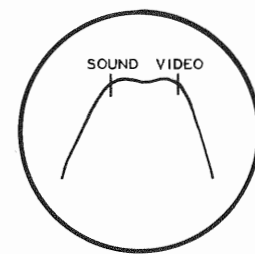


FIG. 5

JACKSON  
CH. 114H, 116H, 117H, 120H



PARTS LIST AND DESCRIPTIONS (Continued)  
COILS (RF-IF)

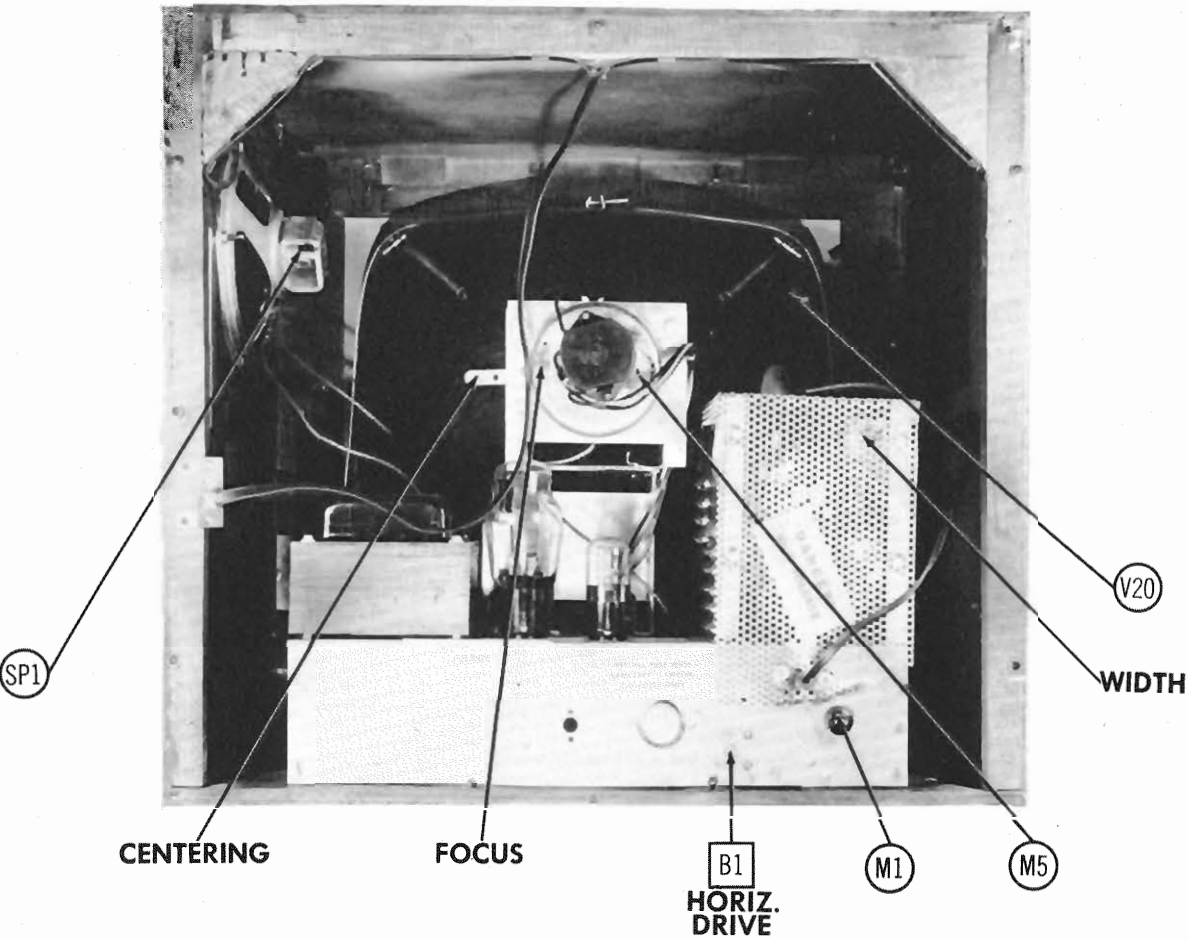
ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	JACKSON PART No.	MERIT PART No.	
L2	Ant. Coil	0Ω				Channel 2
L3	Fil. Choke	0Ω				
L4	RF Mixer Grid & Osc. Coils	0Ω				Channel 2
L5	Fil. Choke	0Ω				
L6	1st. Video IF	.2Ω		A-1481-10	TV-102	
L7	Fil. Choke	0Ω		A-1475-10		
L8	2nd. Video IF	.1Ω		A-1481-10		
L9	Fil. Choke	0Ω		A-1476-10		
L10	3rd. Video IF	.1Ω	.2Ω	A-1476-10		
L11	4th. Video IF	.1Ω	.2Ω	A-1476-10		
L12	21.25MC Sound trap	0Ω		A-1486-10	TV-150	
L13	Peaking Coil	4.6Ω		A-1482-10		120 Microhenries
L14	Peaking Coil	14Ω		A-1483-10	TV-188	600 Microhenries
L15	Peaking Coil	6.8Ω		A-1483-10	TV-187	240 Microhenries, Wound on 18KΩ Resistor
L16	Peaking Coil	8.8Ω		A-1484-10	TV-188	380 Microhenries
L17	Sound IF	1.4Ω		A-1477-10		
L18	Ratio Det. Trans.	4.2Ω	.1Ω	A-1478-10	TV-110	Tap at .5Ω
L19	Horiz. Osc.	46Ω		A-1479-10	TV-183	
L20	Width Coil	.25Ω		A-1486-10	MWC-2	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			JACKSON PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG	5A-250V	A-3751-30		312005	342001	
M2	3AG	1/4A-250V	A-3750-30		312.250	357001	

MISCELLANEOUS

ITEM No.	PART NAME	JACKSON PART No.	NOTES
M3	RF Tuner	B-4100-33	
M4	Focus Magnet	B-4101-33	
M5	Ion Trap	A-4102-33	
B1	Trimmer	CVM501ST	50 - 500MMF Horiz. Drive



JACKSON  
CH. 114H, 116H, 117H, 120H

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

- Turn the set on and tune in a TV station, preferably a test pattern.
- Adjust the horizontal hold slug to the center of the range over which the picture synchronizes horizontally.
- Turn the width slug, (B2), all the way in, (clockwise).
- Adjust the horizontal drive trimmer, (B1), for best compromise between brightness and horizontal linearity. If bright vertical lines appear in the picture, turn B1 clockwise just enough to eliminate them.
- Turn the width slug, (B2), counter clockwise until the picture is slightly wider than necessary to fill the mask horizontally.

DISASSEMBLY INSTRUCTIONS

1. Remove 6 wood screws holding rear cover. Remove cover.
2. Remove 4 push-on type control knobs.
3. Disconnect built-in antenna and speaker.
4. Remove 2 speaker mounting nuts. Remove speaker.
5. Remove 4 chassis bolts. Remove chassis.
- Note: For picture tube removal it is necessary to remove chassis as outlined above.

## PARTS LIST AND DESCRIPTIONS

## TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		JACKSON PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
V1A	RF Amp.	6CB6	6CB6	7CM	
B	RF Amp.	7BD	7BD	7BD	
C	RF Amp.	6BC5	6BC5	7BF	
V2	Converter	6J6	6J6	7BD	
V3A	1st. Video IF Amp.	6AG5	6AG5	7CM	
B	1st. Video IF Amp.	6BC5	6BC5	7BD	
V4A	2nd. Video IF Amp.	6AG5	6AG5	7BD	
B	2nd. Video IF Amp.	6BC5	6BC5	7BD	
C	2nd. Video IF Amp.	6CB6	6CB6	7CM	
V5	3rd. Video IF Amp.	6AU6	6AU6	7BK	
V6	Video Det.-AGC	6AL5	6AL5	8BT	
V7	Video Amp.	6AC7	6AC7	8N	
V8	DC Rest. Sync. Sep.	12AU7	12AU7	9A	
V9	Sound IF Amp.	6AU6	6AU6	7BK	
V10	Ratio Det.-AF	6T8	6T8	9E	
V11	Amp.	6V6	6V6	7AC	
V12	Audio Output	6SN7GT	6SN7GT	8BD	
V13	Vert. Mult.	6K6GT	6K6GT	7S	
V14	Vert. Output	6AL5	6AL5	8BT	
V15	Horiz. Phase Inv.	6SN7GT	6SN7GT	8BD	
V16	Horiz. Mult.	6BG6G	6BG6G	5BT	
V17	Damper	6W4GT	6W4GT	4C G	
V18	HV Rect.	1X2A	1X2A	9Y	
V19	LV Rect.	5U4G	5U4G	5T	

## CAPACITORS (CONT.)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
		JACKSON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C46	.005	600	CW206502M	P688-005	D6-502	PTE6D5	Audio Output Plate
C47A	.002		P688-002	D6-502	PTE6D2	GP2-333-50	Vert. Integrator Net
B	.005		P688-005	D6-502	PTE6D5	GP2-333-502	Vert. Integrator Net
C	.005		P688-005	D6-502	PTE6D5	GP2-333-502	Vert. Integrator Net
C48	.01	600	CP206103M	P688-01	D6-103	PTE6S1	Vert. MV Feedback
C49	.05	600	CP206503M	P688-05	DF-503	PTE6S5	Vert. Discharge
C50	.1	600	CP206104M	P688-1	DF-104	PTE6P1	Vert. Sweep Coupling
C51	1000	500	CMA05102K	1468-001	D6-102	1W5D1	Horiz. Sync. Coupling
C52	1000	500	CMA05102K	1468-001	D6-102	1W5D1	Horiz. Sync. Coupling
C53	.05	600	CP206503M	P688-05	DF-503	PTE6S5	Horiz. Feedback
C54	.01	600	CP206103M	P688-01	D6-103	PTE6S1	Voltage Divider
C55	5000		CDZ05102Y	BPD-005	DD-502	1D5D5	AFC Coupling
C56	10000		CDZ05103Y	BPD-01	DD-103	1D3S1	Fixed Trimmer
C57	4300	500		1464-004		1D5D4	Horiz. MV Feedback
C58	330	500	CMA05331K	1469-00035			Horiz. Discharge
C59	310		CMA05331K	1469-00035			Horiz. Sweep Coupling
C60	.01	600	CP206103M	P688-01	D6-103	PTE6S1	Horiz. Output Screen
C61	.047	600	CP206503M	P688-047	DF-503	PTE6S5	Horiz. Sweep Coupling
C62	.25	200	CP202254M	P488-25		GT2P25	Damper Filter
C63	.25	600	CP202254M	P488-25		GT2P25	HV Filter
C64	500	20000	CDZ050501	HV20C	TV3-502		Line Filter
C65	10000		BPD-01	DD-103	1D3S1	821-01	

† Some Models use 05MFD in this application (Part No. CP206503M)  
 \* Not used in all Models  
 † Items C47A, C47B, C47C, R75A, R75B, R75C are combined in one unit  
 † Some Models use 3900MMF in this application (Part No. CMB05392K)  
 † Items C45A, C45B, C45C, R76A, R76B are combined in one unit.  
 When replacing separately C45B and C45C should total 250MMF

## RESISTORS (CONT.)

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		JACKSON PART No.	IRC PART No.	
R55	2.2Meg	RCC225M	BTS-2.2Meg	Vert. Output Grid
R56	15000 10%	RCC152M	BTS-1500	Vert. Output Cathode
R57	47000	RCC472K	BTS-4700	AFC Feedback
R58	27K	RCC272K	BTS-27K	AFC Diode Load
R59	100K 10%	RCC104K	BTS-100K	Phase Det. Diode Load
R60	100K 10%	RCC104K	BTS-100K	Phase Det. Diode Load
R61	470K	RCC475M	BTS-470K	Horiz. MV Grid
R62	4.7Meg	RCC474M	BTS-4.7Meg	Horiz. MV Grid
R63	18000 10%	RCC152K	BTS-1800	Horiz. MV Cathode - See note 3.
R64	39000 10%	RCC392K	BTS-3900	Horiz. MV Plate
R65	82K	RCC104K	BTS-82K	Horiz. MV Grid - See note 4.
R66	270K 10%	RCC274K	BTS-270K	Horiz. MV Plate
R67	47000 10%	RCC472M	BTS-4700	Voltage Divider
R68	470K	RCC474M	BTS-470K	Horiz. Output Grid
R69	470	RCC470M		Parasitic Suppressor
R70	10K	RCC103M	BTB-10K	Horiz. Output Screen
R71	3.3	RCC033M		Filament Dropping
R72	470K	RCC474M		HV Filter
R73A	10000	RWT402K		Voltage Divider - Wire Wound
R74	30000			Voltage Divider - Wire Wound
R75A	22K	RCC224M	BTS-220K	Line Isolation
R76A	22K		BTS-22K	Integrator Network
B	82000		BTS-8200	Integrator Network
C	82000		BTS-8200	Integrator Network
R76A	500K		BTS-500K	AF Amp. Plate
B	500K		BTS-500K	Output Grid

† Items R76A, R76B, C45A, C45B, C45C are combined in one unit.  
 Note 1. Some models use a 820 resistor in this application.  
 Note 2. Some models use a 10K resistor in this application.  
 Note 3. Some models use a 15000 resistor in this application.  
 Note 4. Some models use a 100K resistor in this application.  
 † Items R75A, R75B, R75C, C47A, C47B, C47C are combined in one unit.

## CATHODE-RAY TUBE

ITEM No.	REPLACEMENT DATA			RTMA BASE TYPE	NOTES
	JACKSON PART No.	SYLVANIA PART No.	THOMAS PART No.		
V20A	17BP4	17BP4	17BP4	12D	① Use single magnet ion trap.
B	14BP4	14BP4	14BP4	12D	
C	14CP4	14CP4	14CP4	12D	
D	16BP4	16BP4	16BP4	12D	
E	16TP4	16TP4	16TP4	12D	
F	17AP4	17BP4A	17BP4	12D	
G	20CP4	20CP4	20CP4	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 CAP. VOLT	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
		JACKSON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C1A	40	450	CED4445	PRS450/40-40	BR8045A	TVA-2740	Filter (Red)
B	40	450	CES8045	PRS450/40-40	BR8045	TVA-1716	Decoupling (Red)
C2	80	450	CET21C45	PRS450/20-20	BRD2245	TVA-1730	Filter (Red)
C3A	20	450		PRS50/100	BRH5015	TVA-1311	Audio Output Dec. (Red)
B	10	450					Vert. Output Cath. (Green)
C	150	50					Stabilizing Cap.
C4	2-9	50	CES0405	PRS150/4	BR550	TVA-1303	Variable Trimmer
C5	120						Variable Trimmer
C6	120						Variable Trimmer
C7	120						Variable Trimmer
C8	1000						Variable Trimmer
C9	100						Variable Trimmer
C10	100						Variable Trimmer
C11	20						Variable Trimmer
C12	10						Variable Trimmer
C13	10						Variable Trimmer
C14	1000						Variable Trimmer
B	1000						Variable Trimmer
C15	10						Variable Trimmer
C16	120						Variable Trimmer
C17	5000						Variable Trimmer
C18	5000						Variable Trimmer
C19	5000						Variable Trimmer
C20	100						Variable Trimmer
C21	5000						Variable Trimmer
C22	5000						Variable Trimmer
C23	5000						Variable Trimmer
C24	5000						Variable Trimmer
C25	5000						Variable Trimmer
C26	5000						Variable Trimmer
C27	240	500	CMB05241K	1469-00025	SR5T25		Fixed Trimmer
C28	100						Fixed Trimmer
C29	.25	200	CP202254M	P488-25	GT2P25		AGC Filter
C30	5000						AGC Filter
C31	10000						AGC Filter
C32	5						AGC Filter
C33	.05	200	CCG05050M	P288-05	DF-503	PTE4S5	Video Det. Filter
C34	10000						Video Coupling
C35	.1	400	CP204104M	P488-1	DF-104	PTE4P1	Video Amp. Screen
C36	.1	400	CP204104M	P488-1	DF-104	PTE4P1	Video Coupling
C37	2.2						Picture Tube Cathode
C38	47						Sound IF Coupling
C39	39						Fixed Trimmer
C40	10000						Sound IF Grid
C41	10000						Sound IF Decoupling
C42	330	500	CMA05331M	1469-00035	1W5D5	5HK-S1	Sound IF Cathode
C43	1500	500	CMA05152M	1468-0015	1W5D5	5HK-S1	Diode Load Cap.
C44	10000						De-emphasis
C45A	.01						Audio Coupling
B	.250						AF Amp. Plate
C							Audio Output Grid

## CONTROLS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA			INSTALLATION NOTES
		JACKSON PART No.	IRC PART No.	CLEARSTAT PART No.	
R1A	10000	RVM100S	Concentrit	SBB-636-S	Contrast Control - Panel
B	1Meg		B11-108		Volume Control - Rear
C	Shaft end		B13-137		Attach per instructions in "Concentrit"
D	Switch		E-202 *		Attach per instructions in "Concentrit"
R2A	1Meg		76-1 *		Vertical Hold Control
B	Shaft		RVC101N	AG-61-S	Attach to R2A per instructions
R3A	5K		Not Req.	AM-19-S	Vertical Linearity Control
B	Shaft		Not Req.	FKS-1/4	Attach to R3A per instructions
R4A	3Meg		Not Req.	AG-85-S	Height Control
B	Shaft		Not Req.	FKS-1/4	Attach to R4A per instructions
R5A	250K		Not Req.	AG-55-S	Brightness Control
B	Shaft		Not Req.	FKS-1/4	Attach to R5A per instructions

\* Additional Parts to be used with "Concentrit"

## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES ALL RESISTORS + 20% UNLESS OTHERWISE NOTED
	RESISTANCE	WATTS	JACKSON PART No.	IRC PART No.	
R6	3900Ω	1	RCC392K	BTS-3900	Antenna Coil Shunt
R7	47KΩ		RCC473M		RF Amp. Grid
R8	10KΩ 10%	1	RCC103K		RF Amp. Coil Shunt
R9	2200Ω		RCC222M	BTS-2200	RF Amp. Plate
R10	4700Ω	1	RCC472M	BTS-4700	Mixer Grid
R11	220KΩ		RCC224M		Mixer Grid
R12	15KΩ	1	RCC153M		Mixer Plate
R13	10KΩ 10%		RCC103K		Osc. Grid
R14	4700Ω 10%	1	RCC472M	BTS-4700	Osc. Plate
R15	10KΩ		RCC103K		1st Video IF Amp. Grid
R16	500Ω 10%	1	RCC560K		1st Video IF Amp. Cathode
R17	100Ω		RCC101M	BTS-100	1st Video IF Amp. Decoupling
R18	8000Ω 10%	1	RCC822K		2nd Video IF Amp. Grid
R19	500Ω 10%		RCC560K		2nd Video IF Amp. Cathode
R20	1500Ω 10%	1	RCC151M	BTS-150	AGC Network
R21	150Ω		RCC151M	BTS-150	AGC Network
R22	100Ω	1	RCC101M	BTS-100	Decoupling
R23	22KΩ		RCC223M		2nd Video IF Amp. Coil Shunt
R24	1200Ω 10%	1	RCC820K	BTS-120	3rd Video IF Amp. Cathode - See note 1.
R25	100Ω		RCC101M	BTS-100	3rd Video IF Amp. Decoupling
R26	2.2Meg	1	RCC225M	BTS-2.2Meg	AGC Network
R27	680KΩ		RCC684M	BTS-680K	AGC Diode Load
R28	6000Ω 10%	1	RCC682K	BTS-6800	Video Det. Diode Load
R29	1Meg		RCC105M	BTS-1Meg	Video Amp. Grid
R30	82Ω 10%	1	RCC820M	BTS-82	Voltage Divider
R31	82K 10%		RCF823K	ETA-82K	Video Amp. Screen
R32	5600Ω 10%	2	RCG562K	BTB-5600	Video Amp. Plate
R33	2200Ω 10%		RCC225M	BTS-2200	Picture Tube Grid
R34	270KΩ 10%	1	RCC274M	BTS-270K	Sync. Sep. Cathode
R35	1Meg		RCC105M	BTS-1Meg	Sync. Sep. Plate
R36	47KΩ	1	RCC473M	BTS-47K	Voltage Divider
R37	220KΩ		RCC224M	BTS-220K	Voltage Divider
R38	4700Ω 10%	1	RCC472K	BTS-4700	Sync. Phase Inv. Cathode
R39	2200Ω 10%		RCC222K	BTS-2200	Sync. Phase Inv. Cathode
R40	10KΩ	1	RCC103K	BTS-10K	Sync. Phase Inv. Plate
R41	22KΩ		RCF223K	ETA-22K	Sync. Phase Inv. Plate
R42	470KΩ	1	RCC474M		Sound IF Amp. Grid
R43	82Ω 10%		RCC820M	BTS-82	Sound IF Amp. Cathode
R44	82KΩ 10%	1	RCF823M		Sound IF Amp. Decoupling
R45	47KΩ		RCC473M		De-emphasis
R46	6800Ω 10%	1	RCC682K	BTS-6800	Ratio Det. Diode Load
R47	6800Ω 10%		RCC682K	BTS-6800	Ratio Det. Diode Load
R48	10Meg	1	RCC106M	BTS-10Meg	AF Amp. Grid
R49	390Ω 10%		RCF391M	ETA-390	Audio Output Cathode
R50	1500Ω 10%	1	RCC150M	BTS-1500	Vert. MV Cathode
R51	100KΩ 10%		RCF104M	ETA-100K	Vert. MV Plate
R52	150KΩ 10%	1	RCC154M	BTS-150K	Vert. MV Grid
R53	680KΩ		RCC684M	BTS-680K	Vert. MV Plate
R54	8200Ω 10%	1	RCC103M	BTS-8200	Vert. Packaging - See note 2.