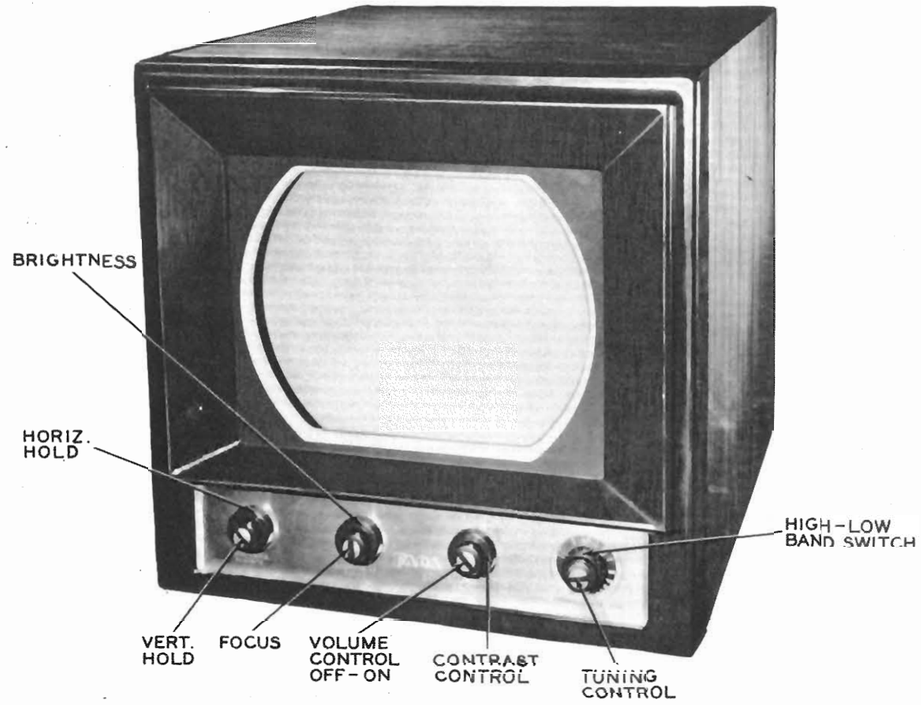


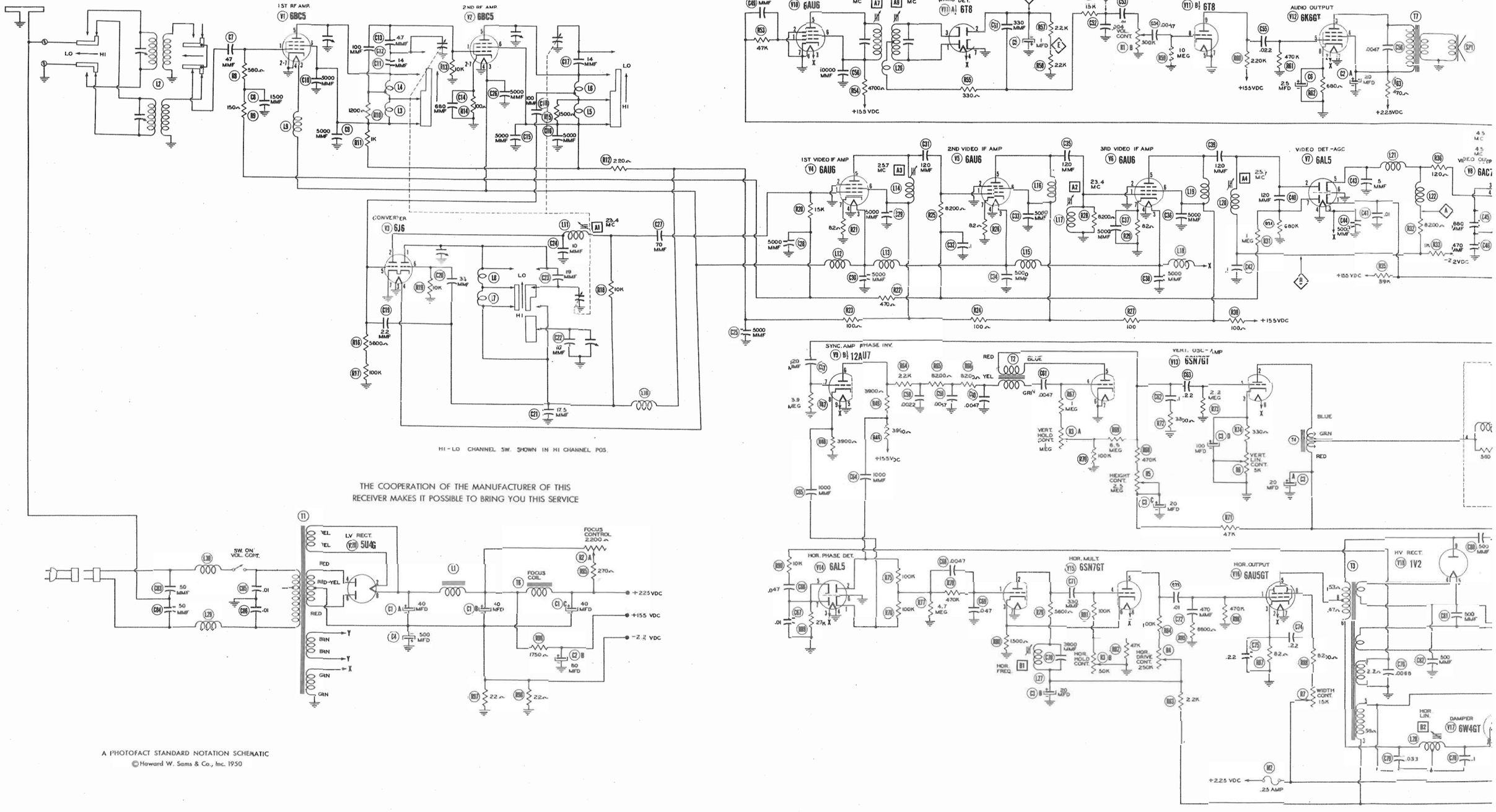
FADA MODEL S-1015

TRADE NAME	Fada, Models S-1015, S-1020, S-1030		
MANUFACTURER	Fada Radio and Electric Co., Inc., Belleville, New Jersey		
TYPE SET	Television Receiver		
TUBES	Twenty One		
POWER SUPPLY	110-120 Volts AC	RATING	1.7 Amp. at 117 Volts AC
TUNING RANGE—	Channels 2 thru 13		

INDEX

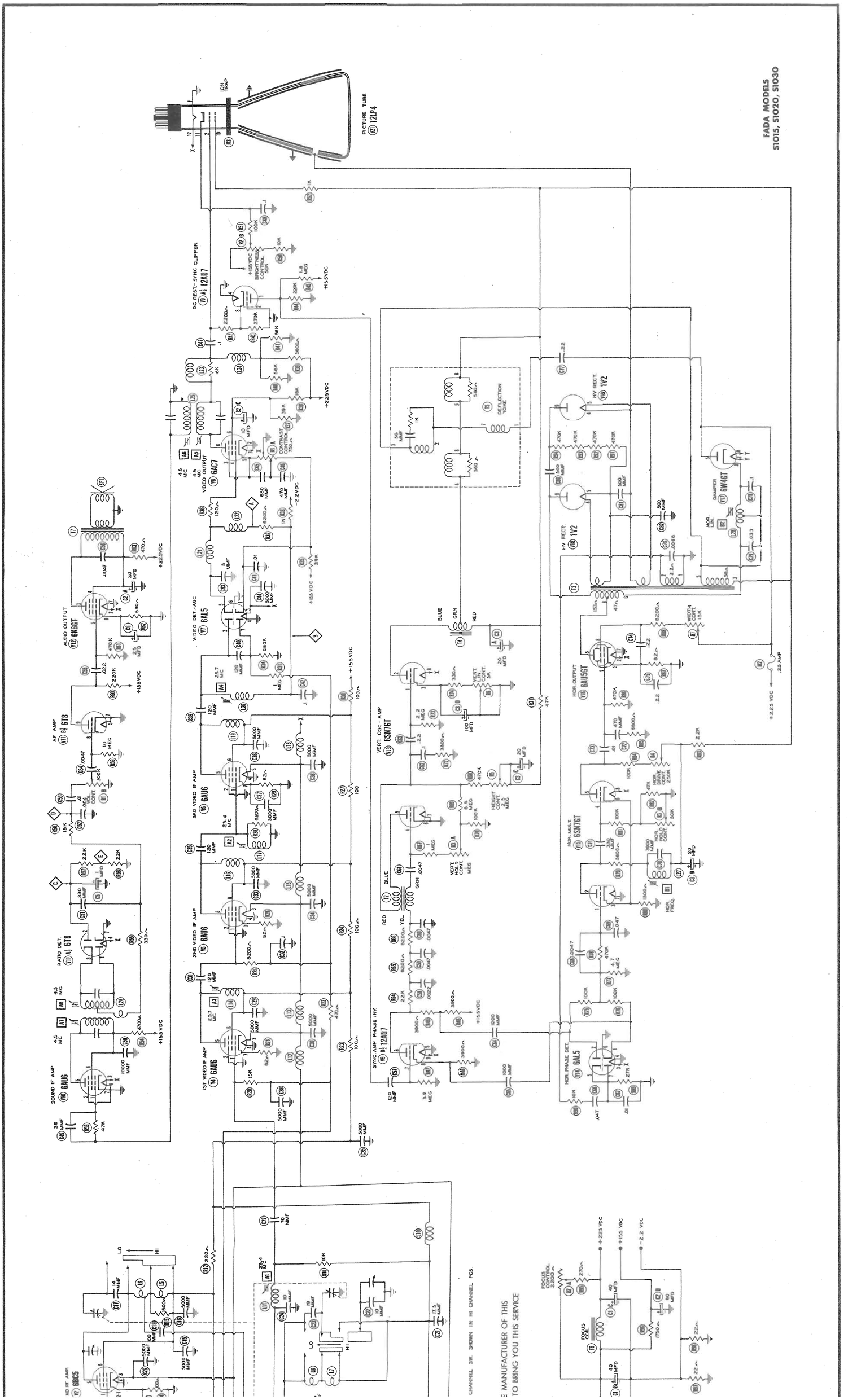
HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

FADA MODELS
S1015, S1020, S1030



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

A PHOTOFACT STANDARD NOTATION SCHEMATIC


FADA MODELS
S1015, S1020, S1030
PICTURE TUBE
(21) 12LP4
DC REST.-SYNC CLIPPER
(9) A1 12AU7
VIDEO OUTPUT
(8) 6AC7
VIDEO DET.-AGC
(7) 6AL5
1ST VIDEO IF AMP
(4) 6AU6
2ND VIDEO IF AMP
(5) 6AU6
3RD VIDEO IF AMP
(6) 6AU6
SOUND IF AMP
(10) 6AU6
RATIO DET.
(11) A1 6T8
AF AMP
(11) B1 6T8
AUDIO OUTPUT
(12) 6N6GT
SYNC AMP PHASE INV.
(9) A1 12AU7
VERT. OSC.-AMP
(12) 6SN7GT
HOR. PHASE DET.
(13) 6AL5
HOR. MULT.
(13) 6SN7GT
HOR. OUTPUT
(14) 6AU5GT
DAMPER
(17) 6W4GT
HV RECT.
(15) 1V2
HV RECT.
(16) 1V2
DEFLECTION YOKE
FOCUS COIL
FOCUS CONTROL
CHANNEL SW. SHOWN IN HI CHANNEL POS.
E MANUFACTURER OF THIS
TO BRING YOU THIS SERVICE

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

If receiver is to be aligned with picture tube removed the high voltage lead should be securely taped and dressed away from the chassis.

VIDEO IF ALIGNMENT

Remove the converter tube (V3) from its socket and replace with a 6J6 with pin 1 removed to prevent erroneous indications. Turn the contrast control fully counter-clockwise.

	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 (V3). Low side to chassis.	23.4MC (Unmod.)	Any	DC Probe to Point (A). Common to Point (B)	A1, A2	Adjust for maximum deflection.
2.	Direct	"	25.7MC	"	"	A3, A4	"

OVERALL VIDEO IF RESPONSE CHECK

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

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3.	Direct	High side to ungrounded tube shield floating over "dummy" converter tube (V3). Low side to chassis.	24MC (10MC SWP)	21.6MC 23.8MC 26.1MC	Any	Vert. Amp. to Point (A). Low side to chassis.		Check for response curve similar to figure 1. The 26.1MC marker should be at 50% response. If necessary, slightly retouch A1 thru A4 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
4.	.01MFD	High side to pin 4 (Grid) of 6AC7 (V8). Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point (C). Common to chassis .	A5, A6, A7	Adjust for maximum deflection. Attenuate signal generator to maintain a maximum -3 volts reading.
5.	.01MFD	"	"	"	DC Probe to Point (D). Common to Point (E).	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 120 ∿ sawtooth voltage in scope for horizontal deflection.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4.	.01MFD	High side to pin 4 (Grid) of 6AC7 (V8). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any	Vert. Amp. to Point (C). Low side to chassis.	A5, A6, A7	Disconnect stabilizer capacitor C5. Adjust for maximum amplitude and symmetry as per figure 2.
5.	.01MFD	"	"	"	"	Vert. Amp. to Point (D). Low side to chassis.	A8	Reconnect capacitor C5. Adjust A8 to place 4.5MC at center of crossover lines as per figure 3. SLIGHTLY retouch A7 for maximum amplitude and straightness of crossover lines.

THE RF TUNER PORTION OF THIS RECEIVER IS PRE-ALIGNED AT THE FACTORY AND IS VERY STABLE, AND WILL NOT NORMALLY REQUIRE ADJUSTMENT IN THE FIELD.

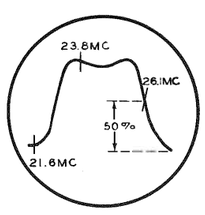


FIG. 1

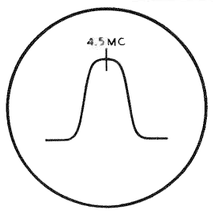


FIG. 2

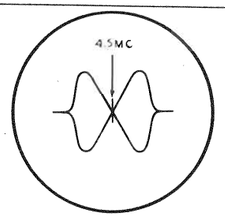
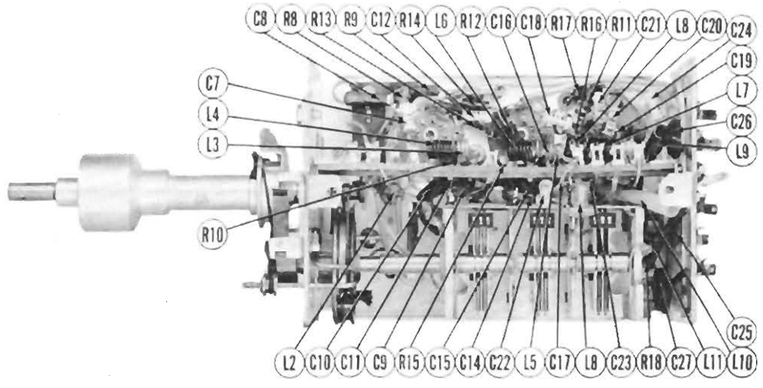
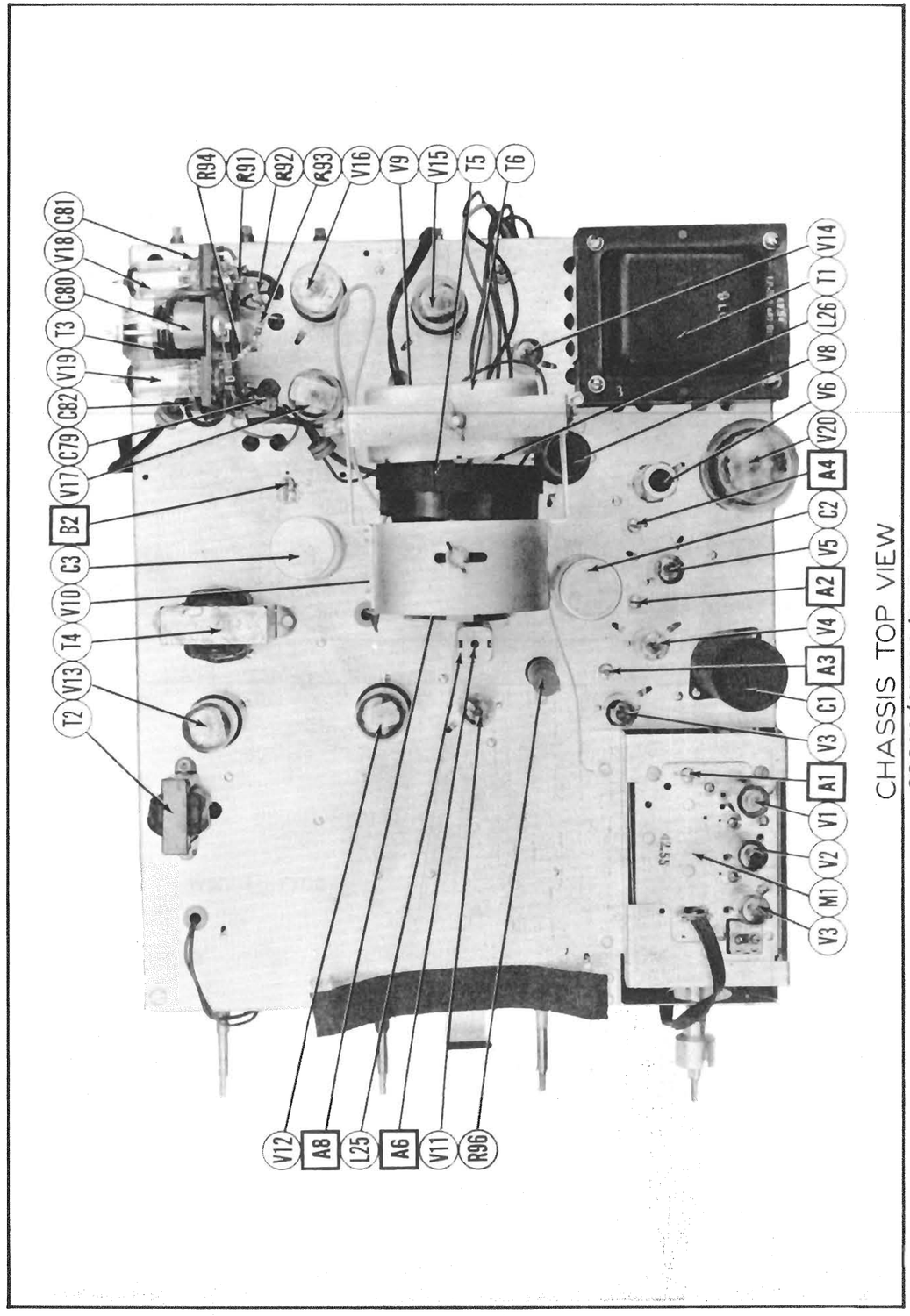


FIG. 3



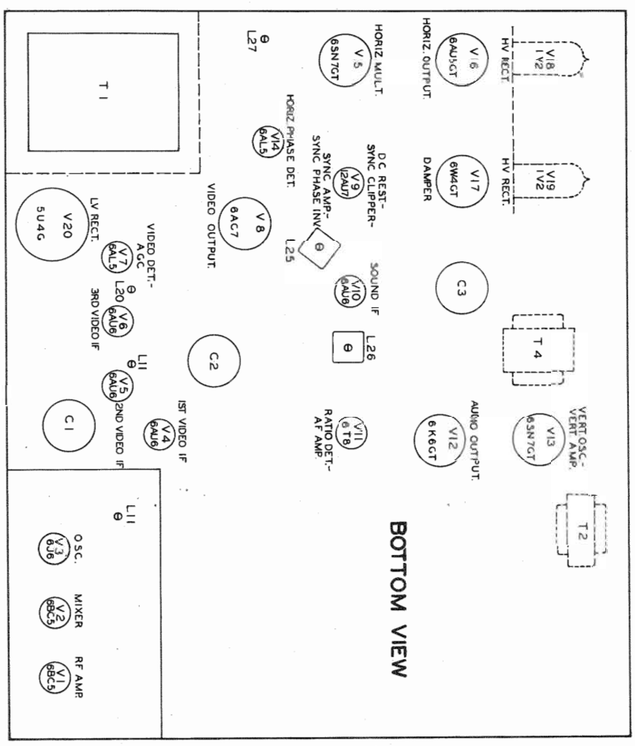
RF TUNER

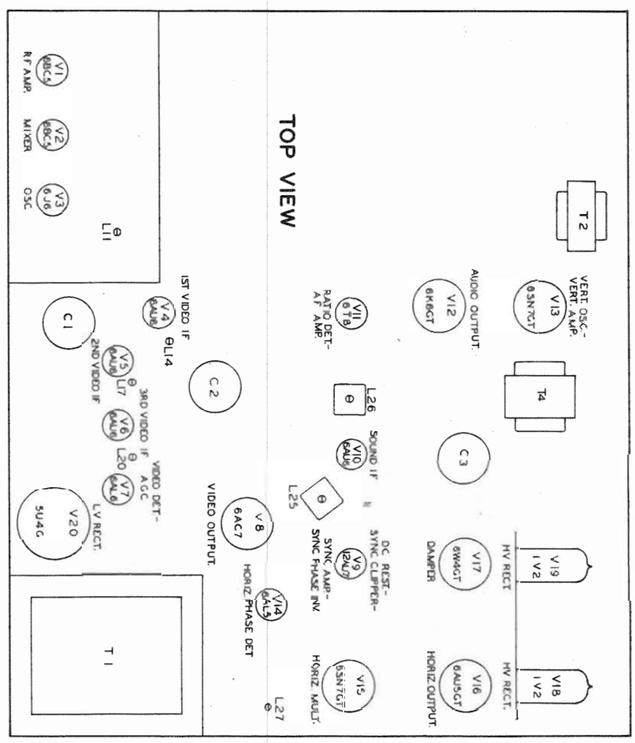


CHASSIS TOP VIEW

FADA MODELS S1015, S1020, S1030

TUBE PLACEMENT CHART





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	6BC5	-.4VDC	0V.	6.3VAC	0V.	125VDC	125 VDC	0V.		
V 2	6BC5	0V.	1VDC	6.3VAC	0V.	‡10VDC	‡30VDC	1VDC		
V 3	6J6	130VDC	90VDC	6.3VAC	6.3VAC	▲-2VDC ▲-1VDC	▲‡-3.6VDC ▲‡-2.7VDC	0V.		
V 4	6AU6	-.4VDC	0V.	6.3VAC	0V.	140VDC	140VDC	.8VDC		
V 5	6AU6	-.4VDC	0V.	6.3VAC	0V.	145VDC	145VDC	.5VDC		
V 6	6AU6	0V.	0V.	6.3VAC	0V.	150VDC	150VDC	.6VDC		
V 7	6AL5	2.4VDC	-2.2VDC	6.3VAC	0V.	-1.8VDC	0V.	-.2VDC		
V 8	6AC7	0V.	0V.	.8VDC	-1.8VDC	.8VDC	145VDC	6.3VAC	165VDC	
V 9	12AU7	9VDC	0V.	1.8VDC	0V.	0V.	140VDC	0V.	6.8VDC	6.3VAC
V 10	6AU6	-.7VDC	0V.	6.3VAC	0V.	105VDC	105VDC	0V.		
V 11	6T8	-.4VDC	-.8VDC	-.4VDC	6.3VAC	0V.	0V.	0V.	-.4VDC	60VDC
V 12	6K6GT	0V.	6.3VAC	210VDC	215VDC	0V.	0V.	0V.	15VDC	
V 13	6SN7GT	0V.	330VDC	19VDC 5VDC	-8VDC	165VDC 35VDC	0V.	0V.	6.3VAC	
V 14	6AL5	2.3VDC	-1.6VDC	6.3VAC	0V.	0V.	0V.	0V.		
V 15	6SN7GT	.2VDC	180VDC	7.7VDC	-2.4VDC	135VDC 70VDC	7.7VDC	0V.	6.3VAC	
V 16	6AU5GT	-4.8VDC	6.3VAC	6.7VDC	0V.	*	0V.	0V.	150VDC 125VDC	
V 17	6W4GT	0V.	0V.	305VDC	0V.	225VDC	225VDC	¶	¶	
V 18	1V2	* DO NOT MEASURE.								
V 19	1V2	* DO NOT MEASURE.								
V 20	5U4G	0V.	285VDC	0V.	300VAC	0V.	300VAC	0V.	285VDC	
V 21	12LP4	0V.	1.8VDC	PIN 10 305VDC	PIN 11 150VDC	PIN 12 6.3VAC				

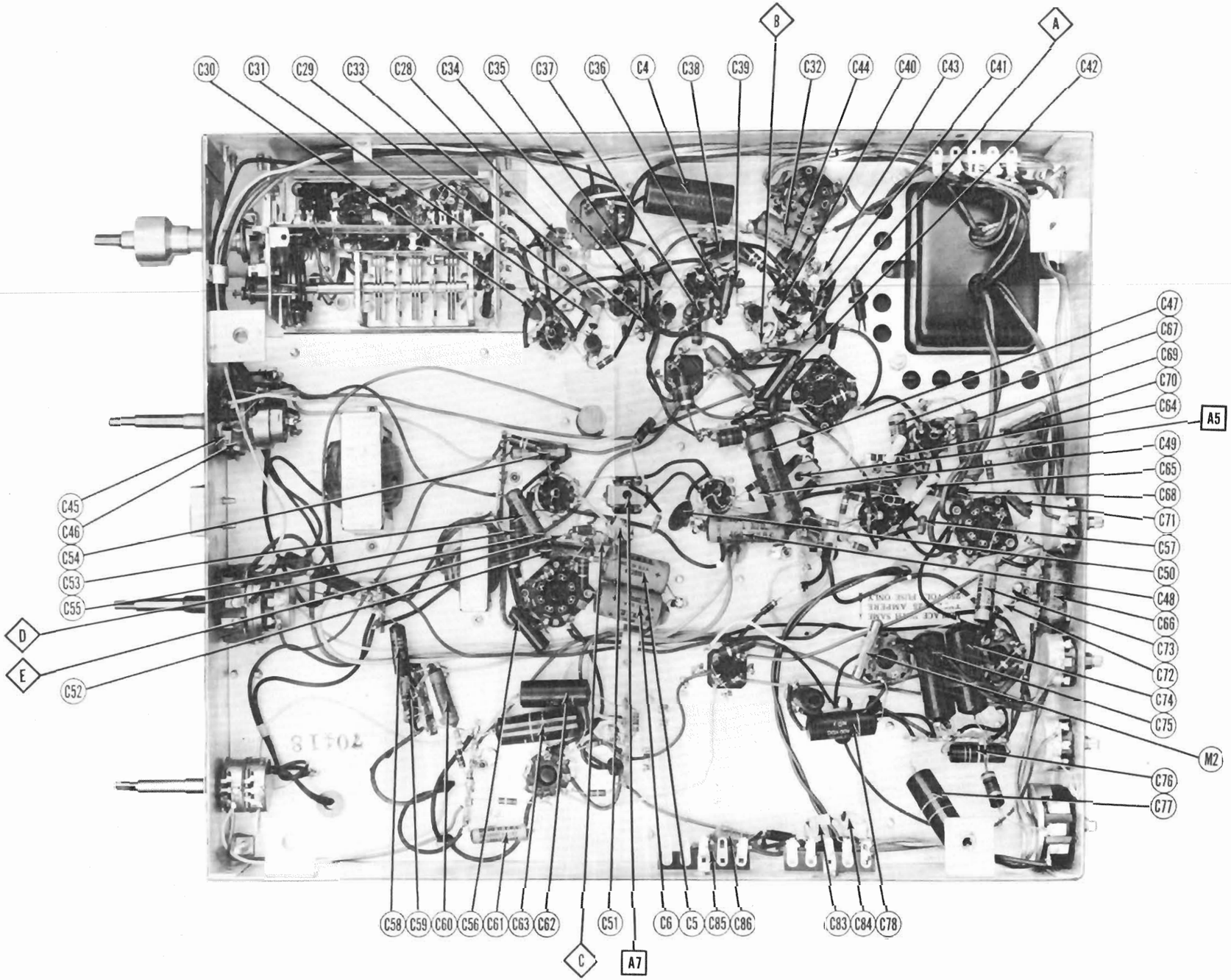
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BC5	1.7 Meg.	0Ω	.1Ω	0Ω	†3.4KΩ	†3.4KΩ	0Ω		
V 2	6BC5	10KΩ	100Ω	.1Ω	0Ω	†2.4KΩ	†2.4KΩ	100Ω		
V 3	6J6	†2.2KΩ	†12KΩ	0Ω	.1Ω	105KΩ	10KΩ	0Ω		
V 4	6AU6	1.7 Meg.	0Ω	.1Ω	0Ω	†2.1KΩ	†2.1KΩ	82Ω		
V 5	6AU6	1.7 Meg.	0Ω	.1Ω	0Ω	12KΩ	12KΩ	82Ω		
V 6	6AU6	.3Ω	0Ω	.1Ω	0Ω	†1.9KΩ	†1.9KΩ	82Ω		
V 7	6AL5	.4Ω	1000Ω	.1Ω	0Ω	9.2KΩ	0Ω	680KΩ		
V 8	6AC7	0Ω	0Ω	750Ω	9.3KΩ	750Ω	†14KΩ	.1Ω	†6KΩ	
V 9	12AU7	†220KΩ	0Ω	270KΩ	0Ω	0Ω	†10KΩ	3.9 Meg.	3.9KΩ	.1Ω
V 10	6AU6	47KΩ	0Ω	.1Ω	0Ω	†6.5KΩ	†6.5KΩ	0Ω		
V 11	6T8	Inf.	44KΩ	Inf.	.1Ω	0Ω	Inf.	0Ω	10 Meg.	†220KΩ
V 12	6K6GT	Inf.	.1Ω	†1.2KΩ	†850Ω	470KΩ	Inf.	0Ω	680Ω	
V 13	6SN7GT	2.2 Meg.	#1.3KΩ	5.3KΩ 330Ω	1.1 Meg.	#500KΩ #2.2 Meg	0Ω	0Ω	.1Ω	
V 14	6AL5	4.8 Meg.	4.8 Meg.	.1Ω	0Ω	27KΩ	0Ω	27KΩ		
V 15	6SN7GT	5.2 Meg.	#27KΩ	1.5KΩ	100KΩ	#125KΩ #375KΩ	1.5KΩ	0Ω	.1Ω	
V 16	6AU5GT	470KΩ	.1Ω	82Ω	Inf.	#50Ω	Inf.	0Ω	†8.5KΩ †24KΩ	
V 17	6W4GT	Inf.	Inf.	1 Meg.	Inf.	†380Ω	†380Ω	Inf.	Inf.	
V 18	1V2	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	#205Ω
V 19	1V2	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.
V 20	5U4G	Inf.	1KΩ	Inf.	65Ω	Inf.	65Ω	Inf.	1KΩ	
V 21	12LP4	0Ω	272KΩ	PIN 10 #1000Ω	PIN 11 110KΩ	PIN 12 .1Ω				

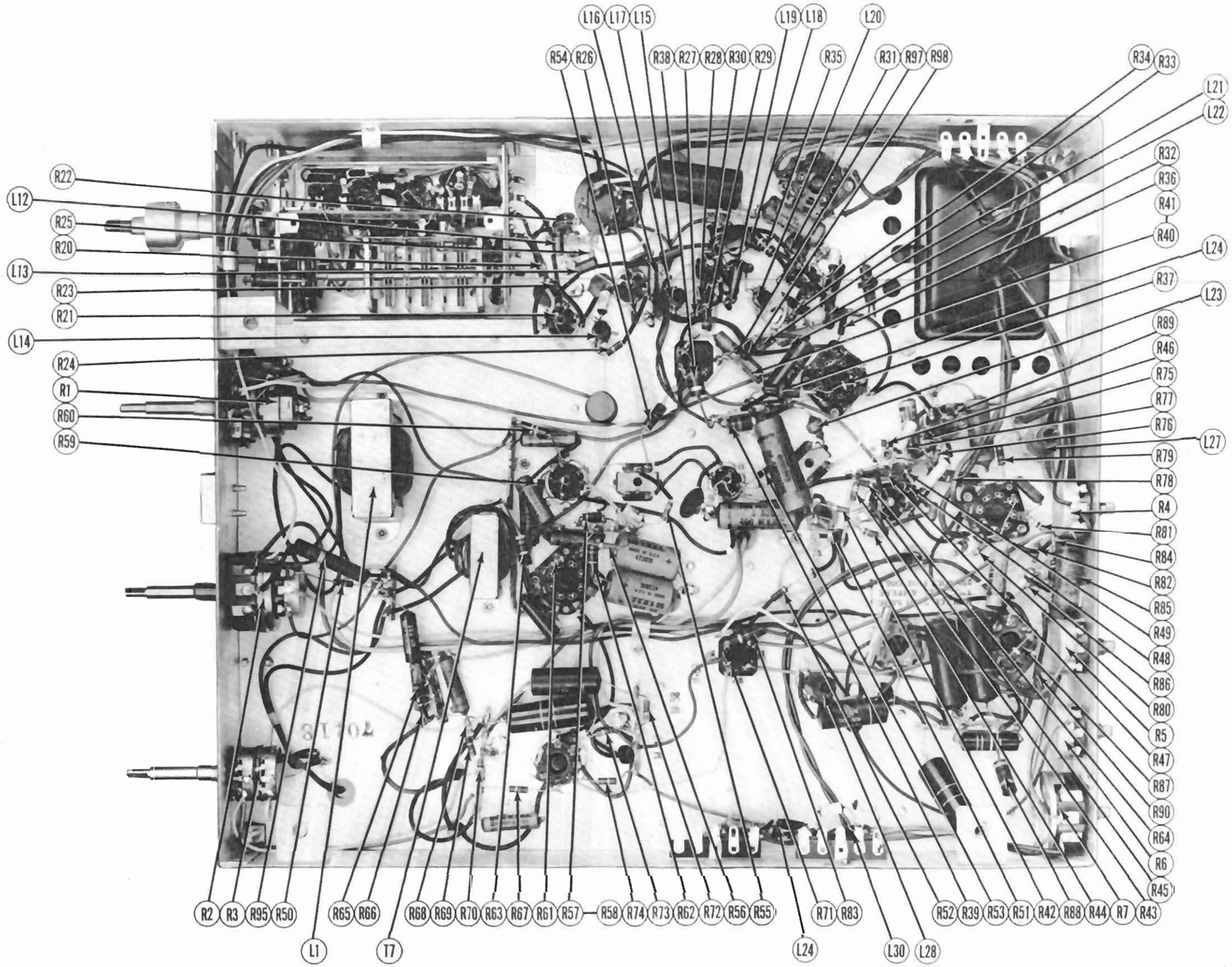
* TUNER SWITCH IN LO BAND POSITION.
▲ TUNER SWITCH IN HI BAND POSITION.
‡ TAKEN WITH VACUUM TUBE VOLTMETER.
* DO NOT MEASURE.
¶ 6.3VAC MEASURED ACROSS FILAMENTS.

† MEASURED FROM PIN 8 OF V20.
# MEASURED FROM PIN 3 OF V17.

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.



CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		FADA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T7	5600Ω	3.6Ω	370Ω	5Ω		A-3877	A-2930	RO-301	

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	FADA PART No.	JENSEN PART No.	GUAM PART No.	
SP1	PM	3.6Ω		ST-108 MOD. P6-X	6A15	
	CONE DIA.	V. C. DIA.				
SP2	5 7/8"	9/16"				

FILTER CHOKE

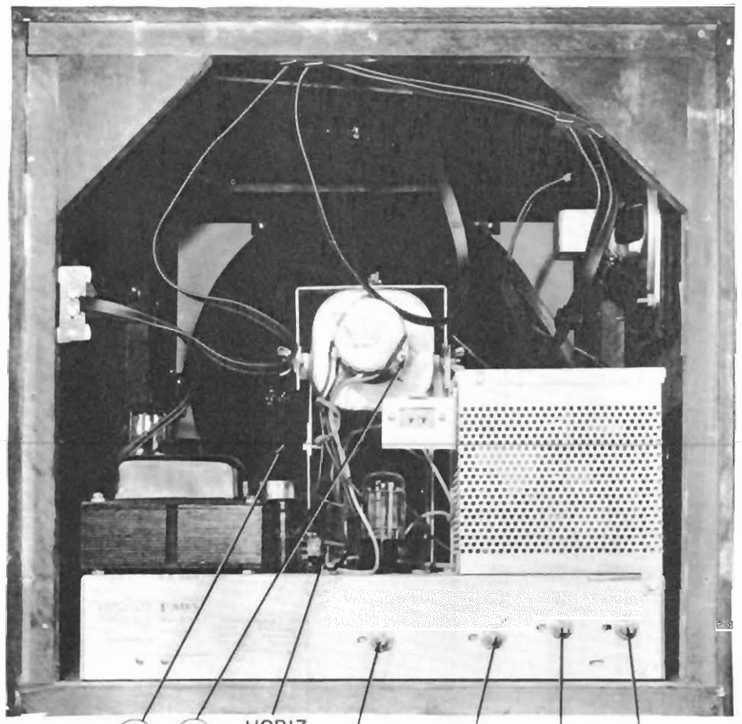
ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D.C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ~)	FADA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	280ADC	38Ω	1.2 Henries		C-2326 ①	C-2996 ①	TR-3300①	① Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	FADA PART No.	MEISSNER PART No.	
L2	Ant. Coils	.1Ω	.1Ω			
L3	RF Coil	0Ω				High Band
L4	RF Coil	0Ω				Low Band
L5	RF Coil	0Ω				High Band
L6	RF Coil	0Ω				Low Band
L7	Osc. Coil	0Ω				High Band
L8	Osc. Coil	0Ω				Low Band
L9	Fil. Choke	0Ω				
L10	RF Choke	.1Ω				
L11	1st Video IF	.9Ω				
L12	Fil. Choke	0Ω				
L13	Fil. Choke	0Ω				
L14	2nd Video IF	.3Ω				
L15	Fil. Choke	0Ω				
L16	RF Choke	1.8Ω				
L17	3rd Video IF	.2Ω				
L18	Fil. Choke	0Ω				
L19	RF Choke	1.8Ω				
L20	4th Video IF	.3Ω				
L21	Peaking	5Ω				
L22	Peaking	33Ω				
L23	Peaking	7.8Ω				Wound on 18KΩ resistor
L24	Peaking	6.7Ω				
L25	Sound IF	2.2Ω	2.2Ω			
L26	Ratio Det. Trans.	4.4Ω	2.2Ω			
L27	Horiz. Osc.	47Ω				
L28	Horiz. Lin.	7.2Ω				Tap at 3Ω
L29	AC Line Choke	0Ω				
L30	AC Line Choke	0Ω				

MISCELLANEOUS

ITEM No.	PART NAME	FADA PART No.	NOTES
M1	RF Tuner		
M2	Fuse		.25A 250V
M3	Ion Trap		



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 and adjust the horizontal frequency slug B1 until the picture synchronizes horizontally.

Turn the horizontal drive control clockwise as far as possible without crowding the right side of the picture. Adjust the width control until the picture fills the mask. Adjust the horizontal linearity slug (B2) until picture is symmetrical from left to right. A slight readjustment of the horizontal drive control may be necessary for optimum results.

DISASSEMBLY INSTRUCTIONS

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

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA: FADA PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	NOTES
V1A	1st RF Amp.	6BC5	6BC5	7BD	
B	1st RF Amp.	6AG5	6AG5	7BD	
V2A	2nd RF Amp.	6BC5	6BC5	7BD	
B	2nd RF Amp.	6AG5	6AG5	7BD	
V3	Converter	6J6	6J6	7BF	
V4	1st Video IF	6AU6	6AU6	7BK	
V5	2nd Video IF	6AU6	6AU6	7BK	
V6	3rd Video IF	6AU6	6AU6	7BK	
V7	Video Det.-AGC	6AL5	6AL5	6BT	
V8	Video Output	6AC7	6AC7	8N	
V9	DC Rest.-Sync. Clipper-Sync. Amp. Sync. Phase Inv.	12AU7	12AU7	9A	
V10	Sound IF Amp.	6AU6	6AU6	7BK	
V11	Ratio Det.-AF Amp.	6T8	6T8	9E	
V12	Audio Output	6K6GT	6K6GT	7S	
V13	Vert. Osc.-Amp.	6SN7GT	6SN7GT	8BD	
V14	Hor. Phase Det.	6AL5	6AL5	6BT	
V15	Hor. Mult.	6SN7GT	6SN7GT	8BD	
V16	Hor. Output	6AU5GT	6AU5GT	6CK	
V17	Damper	6W4GT	6W4GT	4CG	
V18	HV Rect.	1V2	1V2	9U	
V19	HV Rect.	1V2	1V2	9U	
V20	LV Rect.	5U4G	5U4G	5T	
V21	Picture Tube	12LP4	12LP4	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: FADA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C1A	40	350		AFH888H				TVL-3787	a Filter
B	40	350							m Filter
C	40	350							A Filter
C2A	20	300		AF16222H		UPT28130			a Output Decoup.
B	80	250							m Decoupling
C	10	200							A V. Output Screen
C3A	20	400		AF842J20B				TVL-3780	a Decoupling
B	20	400						TVA-1310	m Decoupling
C	20	400							A Vert. Osc. Decoup.
D	100	50							Vert. Amp. Cath.
C4	500	6		PR86/500		BRH605A		TVA-1103	Filter
C5	1	150		PRS150/4		BR145		TVA-1300	Stabilizing Cap.
C6	25	50		PRS50/25		BR255A		TVA-1306	Output Cath. Byp.
C7	47			SI47	D6-470		GP2K-47	19C25	RF Coupling
C8	1500			SI1500	D6-152		GP2L-0015	19C29	AGC Filter
C9	5000			BPD-005	DD-502		811-005	29C1	1st RF Dec.
C10	5000			BPD-005	DD-502		811-005	29C1	1st RF Dec.
C11	14						NPOK-14		Fixed Padder
C12	100			SI100	D6-101		GP1K-100	19C11	RF Coupling
C13	4.7			SI4.7NPO	TCZ-4.7		NPOK-4.7		RF Coupling *
C14	680			SI680	D6-681		GP2K-680	19C17	2nd RF Cath.
C15	5000			BPD-005	DD-502		811-005	29C1	2nd RF Decoup.
C16	5000			BPD-005	DD-502		811-005	29C1	2nd RF Decoup.
C17	14						NPOK-14		Fixed Padder
C18	100			SI100	D6-101		GP1K-100	19C11	RF Coupling
C19	2.2				TCZ-2.2				Osc. Coupling
C20	33			SI33	D6-330		GP1K-33	19C24	Osc. Grid Cap.
C21	17.5						N470K-17.5		Fixed Trimmer
C22	10			SI10N750	TCN-10		N750K-10	19C4	Fixed Trimmer
C23	19			SI20NPO			NPOK-20		Fixed Padder
C24	10			SI10N750	TCN-10		N750K-10	19C4	Fixed Trimmer
C25	5000			BPD-005	DD-502		811-005	29C1	RF Bypass
C26	5000			BPD-005	DD-502		811-005	29C1	Filament Bypass
C27	70	500		SI75NPO	TCZ-68	5W5Q7	GP1K-68	19C10	IF Coupling
C28	5000			BPD-005	DD-502	1D5D5	811-005	29C1	AGC Filter
C29	5000			BPD-005	DD-502	1D5D5	811-005	29C1	1st V. IF Dec.
C30	5000			BPD-005	DD-502	1D5D5	811-005	29C1	1st V. IF Fil.
C31	120			SI120	D6-121	5W5T15	GP2K-120	19C29	IF Coupling
C32	.1	200		P288-	DF-104	PTE4P1		TM-1-2	AGC Filter
C33	5000			BPD-005	DD-502	1D5D5	811-005	29C1	2nd V. IF Dec.
C34	5000			BPD-005	DD-502	1D5D5	811-005	29C1	2nd V. IF Fil.
C35	120			SI120	D6-121	5W5T15	GP2K-120	19C29	IF Coupling
C36	5000			BPD-005	DD-502	1D5D5	811-005	29C1	3rd V. IF Dec.
C37	5000			BPD-005	DD-502	1D5D5	811-005	29C1	3rd V. IF Cath.
C38	5000			BPD-005	DD-502	1D5D5	811-005	29C1	3rd V. IF Fil.
C39	120			SI120	D6-121	5W5T15	GP2K-120	19C29	IF Coupling
C40	120			SI120	D6-121	5W5T15	GP2K-120	19C29	IF Coupling
C41	.01	400		P488-01	D6-103	PTE4S1	811-01	TM-11-4	DAGC Dec.
C42	.1	200		P288-.	DF-104	PTE4P1		TM-1-2	RF Bypass
C43	5			SI5	TCZ-4.7	5W5V5	GP1K-5	MS-55	V. Diode Filter
C44	5000			BPD-005	DD-502	1D5D5	811-005	29C1	V. Det.-AGC Fil.
C45	680			SI680	D6-681	1W5T7	GP2K-680	19C17	V. Amp. Cath.
C46	470			SI470	D6-471	5W5T5	GP2K-470	19C15	V. Amp. Cath.
C47	.1	600		P688-1	DF-104	PTE5P1		TM-1-4	Video Coupling
C48	.1	400		P488-1	DF-104	PTE4P1		TM-1-4	Pic. Tube Cath.
C49	39			SI39	D6-390	5W5Q4	GP1K-39	1FM-45	S. IF Coupling
C50	10000			BPD-01	DD-103	PTE4S1	811-01	36C1	S. IF Decoup.
C51	330			SW330	D6-331	5W5T3	GP2K-330	19C24	Diode Load Cap. †
C52	.004	600		P688-004	D6-402	PTE5D4	GP2M-004	TM-24	De-emphasis
C53	.01	400		P488-01	D6-103	PTE4S1	811-01	TM-11-4	Audio Coupling
C54	.0047	400		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	Audio Coupling
C55	.022	400		P488-022	DF-203	PTE4S2		TM-11-4	Audio Coupling
C56	.0047	400		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	Output Plate Byp.
C57	120			SI120	D6-121	5W5T15	GP2K-120	19C29	Sync. Coupling

CAPACITORS (CONT.)

ITEM No.	RATING: CAP.	VOLT	REPLACEMENT DATA: FADA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C58	.0022	400		P688-0022	D6-222	PTE6D2	GP2M-0022	TM-22	Integrator Net.
C59	.0047	600		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	Integrator Net.
C60	.0047	600		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	Integrator Net.
C61	.0047	600		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	Vert. Osc. Grid Cap.
C62	.1	400		P488-1		PTE4P1		TM-1-4	Vert. Discharge
C63	.22	400		P488-22		GT4P25		TC-2-4	Vert. Sweep Coupling
C64	1000			SI1000	D6-102	1W5D1	GP2L-001	19C1	Hor. Sync. Coupling
C65	1000			SI1000	D6-102	1W5D1	GP2L-001	19C1	Hor. Sync. Coupling
C66	.047	400		P488-047		PTE4S5		TM-15-4	Hor. Feedback
C67	.01	400		P488-01	D6-103	PTE4S1	811-01	TM-11-4	Voltage Divider
C68	.0047	400		P688-0047	D6-472	PTE6D5	GP2M-0047	TM-25	AFC Filter
C69	.047	400		P488-047	DF-503	PTE4S5		TM-15-4	AFC Filter
C70	3900	500		1464-004		IDR5D4		MS-24	Fixed Trimmer
C71	330	500		1469-00035	D6-331	5R5T3	GP2K-330	MS-33	Hor. Feedback
C72	470			SI470	D6-471	5W5T5	GP2K-470	19C15	Hor. Discharge
C73	.01	600		P688-01	D6-103	PTE6S1	811-01	TM-11	Hor. Sweep Coup.
C74	.22	400		P488-22		GT4P25		TM-2-4	Hor. Output Screen
C75	.22	400		P488-22		GT4P25		TM-2-4	Hor. Output Cath.
C76	.0068	600		P688-0068					Fixed Trimmer
C77	.22	400		P488-22		GT4P25		TM-2-4	Hor. Sweep Coupling
C78	.1	400		P488-1		PTE4P1		TM-1-4	Damper Filter
C79	.033	400		P488-033		PTE6S3		TM-13	Damper Filter
C80	500	10000		HV10A	TV1-501				Voltage Doubler Cap.
C81	500	10000		HV10A	TV1-501				HV Filter
C82	500	10000		HV10A	TV1-501				HV Filter
C83	50			SI50	D6-506	5W5Q5	GP1K-56	19C28	Ant. Coupling
C84	50			SI50	D6-506	5W5Q5	GP1K-56	19C28	Ant. Coupling
C85	.01	400		P488-01	D6-103	PTE4S1	811-01	TM-11-4	Line Filter
C86	.01	400		P488-01	D6-103	PTE4S1	811-01	TM-11-4	Line Filter

* Not used in all models.
† Some models use 620MMF in this application.

CONTROLS

ITEM No.	RATING: RESISTANCE	WATTS	REPLACEMENT DATA: FADA PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	INSTALLATION NOTES
R1A	750Ω	2	52.64		RTV-109		Contrast control-Wire Wound-front
B	500KΩ	1/2					Volume control-rear
R2A	2200Ω	4	52.62		RTV-11		Focus control-Wire Wound-front
B	50KΩ	1/2					Brightness control-rear
R3A	1 Meg.	1/2		Concentrikit	Bll-137 *		Vert. hold control-front
B	50KΩ	1/2	52.66		Bll-123 *	RTV-110	SBB-510	Horiz. hold control-rear
C	Shaft End				E-187 *			Attach per instru. in Concentrikit
R4A	250KΩ	1/2	52.38	Qll-130	AM-55-S	AN-50	Horiz. drive control
B	Shaft		Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R4A per instructions
R5A	2.5 Meg.	1/2	52.24	Qii-239	AM-84-S	AN-83	Height control
B	Shaft		Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R5A per instructions
R6A	50000	1/2	52.25	Qll-114	AM-19-S	AN-10	Vert. linearity control
B	Shaft		Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R6A per instructions
R7	15KΩ	4	52.65		58-15K		Width control-Wire Wound

* Additional parts to be used with "Concentrikit".

RESISTORS

ITEM No.	RATING: RESISTANCE	WATTS	REPLACEMENT DATA: FADA PART No.	IRC PART No.	IDENTIFICATION CODES ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED.
R8	560Ω	1/2		BTS-560	1st RF Amp. Grid
R9	150Ω 20%	1/2		BTS-150	AGC Network
R10	1200Ω	1/2		BTS-1200	1st RF Amp. Plate Coil Shunt
R11	1000Ω 20%	1/2		BTS-1000	1st RF Amp. Decoupling
R12	220Ω 20%	1/2		BTS-220	Decoupling
R13	10KΩ	1/2			2nd RF Amp. Grid
R14	100Ω 20%	1/2		BTS-100	2nd RF Amp. Cathode
R15	1500Ω	1/2		BTS-1500	2nd RF Amp. Plate Coil Shunt
R16	5600Ω	1/2			Conv. Grid
R17	100KΩ 20%	1/2			Conv. Grid
R18	10KΩ	1/2			Osc. Plate
R19	10KΩ	1/2			Osc. Plate
R20	15KΩ	1/2			1st Video IF Amp. Grid
R21	82Ω	1/2		BTS-82	1st Video IF Amp. Cathode
R22	470Ω	1/2		BTS-470	AGC Network-See Note 1
R23	100Ω	1/2		BTS-100	Decoupling
R24	100Ω	1/2		BTS-100	1st Video IF Amp. Decoupling
R25	8200Ω	1/2			2nd Video IF Amp. Grid
R26	82Ω	1/2		BTS-82	2nd Video IF Amp. Cathode
R27	100Ω	1/2		BTS-100	2nd Video IF Amp. Decoupling
R28	8200Ω	1/2			3rd Video IF Amp. Grid
R29	82Ω	1		BW-1-82	3rd Video IF Amp. Cathode
R30	100Ω	1/2		BTS-100	3rd Video IF Amp. Decoupling
R31	1 Meg.	1/2		BTS-1 Meg.	AGC Network
R32	8200Ω	1/2		BTS-8200	Video Det. Diode Load
R33	1000Ω	1/2		BTS-1000	Bias Network
R34	680KΩ	1/2		BTS-680K	AGC Diode Load
R35	39KΩ	1		BTA-39K	Voltage Divider
R36	120Ω	1/2			Parasitic Suppressor
R37	39KΩ	1		BTA-39K	Voltage Divider
R38	18KΩ	2		BTB-18K	Video Output Screen
R39	5600Ω	2		BTB-5600	Video Output Plate
R40	56KΩ	2		BTB-56K	Voltage Divider
R41	56KΩ	2		BTB-56K	Voltage Divider
R42	2200Ω	1/2		BTS-2200	Picture Tube Grid

RESISTORS (CONT.)

ITEM No.	RATING: RESISTANCE	WATTS	REPLACEMENT DATA: FADA PART No.	IRC PART No.	IDENTIFICATION CODES
R43	270KΩ	1/2		BTS-270K	DC Rest. Load
R44	220KΩ	1/2		BTS-220K	DC Rest. Load
R45	1.8 Meg.	1/2		BTS-1.8 Meg.	Voltage Divider
R46	3900Ω	1/2		BTS-3900	Sync. Amp. Plate
R47	3.9 Meg.	1/2		BTS-3.9 Meg.	Sync. Amp. Grid
R48	3900Ω	1/2		BTS-3900	Sync. Amp. Cathode
R49	3900Ω	1/2		BTS-3900	Sync. Amp. Plate
R50	10KΩ	1/2		BTS-10K	Voltage Divider
R51	100KΩ	1/2		BTS-100K	Picture Tube Cathode
R52	1000Ω	1/2		BTS-1000	Acc. Anode Decoupling
R53	47KΩ	1/2			Sound IF Amp. Grid
R54	4700Ω	1/2		BTA-4700	Sound IF Amp. Decoupling
R55	330Ω	1/2		BTS-330	Balancing-See Note 2
R56	15KΩ	1/2			De-emphasis
R57	22KΩ	1/2		BTS-22K	Ratio Det. Diode Load
R58	22KΩ	1/2		BTS-22K	Ratio Det. Diode Load
R59	10 Meg. 20%	1/2		BTS-10 Meg.	AF Amp. Grid
R60	220KΩ	1/2		BTA-220K	AF Amp. Plate
R61	470KΩ 5%	1/2		BTS-470K-5%	Audio Output Grid
R62	680Ω	1/2		BTA-680	Audio Output Cathode
R63	470Ω	1/2		BTA-470	Audio Output Decoupling
R64	22KΩ	1/2		BTS-22K	Integrator
R65	8200Ω	1/2		BTS-8200	Integrator
R66	8200Ω	1/2		BTS-8200	Integrator
R67	1 Meg.	1/2		BTS-1 Meg.	Vert. Osc. Grid
R68	470KΩ 5%	1/2		BTS-470K-5%	Vert. Osc. Plate
R69	6.8 Meg.	1/2		BTS-6.8 Meg.	Voltage Divider
R70	100KΩ	1/2		BTS-100K	Voltage Divider
R71	47KΩ	1/2		BTS-47K	Filter
R72	3300Ω	1/2		BTS-3300	Vert. Peaking
R73	2.2 Meg.	1/2		BTS-2.2 Meg.	Vert. Amp. Grid
R73	330Ω	1/2		BTS-330	Vert. Amp. Cathode
R75	100KΩ	1/2		BTS-100K	Horiz. Phase Det. Load
R76	100KΩ	1/2		BTS-100K	Horiz. Phase Det. Load
R77	4.7 Meg.	1/2		BTS-4.7 Meg.	Horiz. Phase Det. Load
R78	470KΩ 5%	1/2		BTS-470K-5%	Horiz. AFC Filter Network
R79	5600Ω 5%	1/2		BTS-5600-5%	Horiz. Mult. Plate
R80	1500Ω	1/2		BTS-1500	Horiz. Mult. Cathode
R81	100KΩ	1/2		BTS-100K	Horiz. Mult. Grid
R82	47KΩ	1/2		BTS-47K	Horiz. Hold Control Shunt
R83	22KΩ	1/2		BTA-22K	Horiz. Mult. Decoupling
R84	100KΩ	1/2		BTS-100K	Horiz. Mult. Plate
R85	6800Ω	1/2		BTS-6800	Horiz. Peaking
R86	470KΩ 5%	1/2		BTS-470K-5%	Horiz. Output Grid
R87	82Ω	1		SW-1-82	Horiz. Output Cathode
R88	8200Ω	2		BTB-8200	Horiz. Output Screen
R89	27KΩ	1/2		BTS-27K	Feedback Network
R90	10KΩ	1/2		BTS-10K	Feedback Network
R91	470KΩ 5%	1/2		BTS-470K-5%	HV Rect. Load
R92	470KΩ 5%	1/2		BTS-470K-5%	HV Rect. Load
R93	470KΩ 5%	1/2		BTS-470K-5%	HV Rect. Load
R94	470KΩ 5%	1/2		BTS-470K-5%	HV Rect. Load
R95	270Ω	2		BW-2-270	Focus Coil Shunt-Wire Wound
R96	1750Ω	20		2D-1750	Filter-Wire Wound
R97	22Ω	1/2		BW-1/2-22	Bias Network
R98	22Ω	1/2		BW-1/2-22	Bias Network

Note 1. Some models use a 330Ω resistor in this application.
Note 2. Not used in all models.

TRANSFORMER (POWER)

ITEM No.	RATING: PRI.	SEC. 1	SEC. 2	SEC. 3	REPLACEMENT DATA: FADA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC @ 1.7A Tap @ 110VAC @ 1.76A	540VCT .280ADC	5VAC @ 3A	6.3VAC @ 1.2A SEC. 4 6.3VAC @ 7.4A			P-3067	

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING: PRI.	RESISTANCE SEC.	REPLACEMENT DATA: FADA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	NOTES
T2	175Ω	1500Ω		A-8111	A-3000	TBO-1	Vert. Block Osc. Trans
T3	330Ω Tap @ 47Ω	8Ω SEC. 2 2.2Ω SEC. 3 0Ω SEC. 4 0Ω					Hor. Output Trans.
T4	1240Ω Tap @ 136Ω 176Ω			A-8123	A-3037		Vert. Output Trans.
T5A	64Ω			DY-1	MD-3		Hor. Deflection Coil
B	64Ω						Vert. Deflection Coil
T6	420Ω			FC-10	MF-3		Focus Coil

RTV-111

FADA MODELS S1015, S1020, S1030