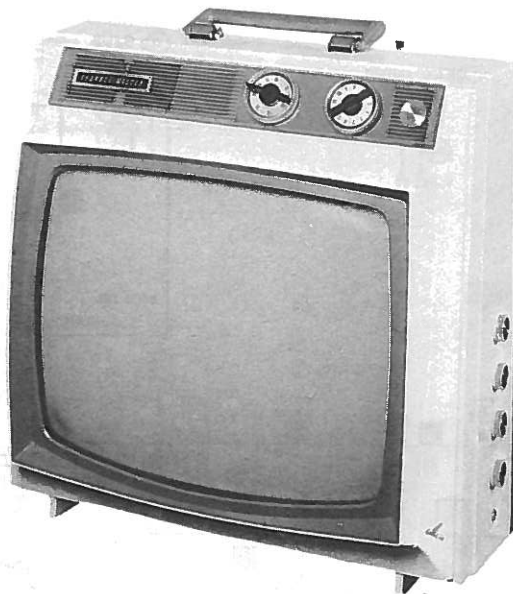


PHOTOFACT® Folder

with CIRCUITRACE™

CHANNEL MASTER
MODEL 6574

MODEL 6574

CAUTIONONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Channel Master Model 6574
SUPPLIER	For current address, see Annual Index.
TYPE SET	Television Receiver
TUBES	VHF: Fourteen, UHF: One Transistor
POWER SUPPLY	110-120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
	RATING 105 Watts, 1.3 Amps. @ 117 Volts AC

SERVICING IN THE FIELDSAFETY GLASS

For picture tube and safety glass cleaning, it is necessary to remove the chassis. (See "Disassembly Instructions".)

FUSE OR FUSE DEVICE

A 2 Amp. fuse is used for low voltage power supply protection. (See "Tube Placement Chart" for location.)

A 3Ω fusible resistor is used for low voltage power supply protection. (For location, see R83, "Chassis - Front View".)

VHF OSCILLATOR ADJUSTMENT

Set Fine Tuning at the center of its range and adjust oscillator slug (one for each channel) for best sound and picture.

AGC

The AGC may be varied by means of an AGC control. (See "Tube Placement Chart" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horizontal Range control, R6. (See "Tube Placement Chart" for location.)

WIDTH

A jumper across R78 increases width — removing jumper decreases width.

FOCUS

The focus may be varied by connecting the lead from pin 4 of the picture tube to various voltage points. (For location, see "Cabinet - Rear View".)

CENTERING

Centering is accomplished by 2 magnetic rings located on yoke rear cover.

PINCUSHION CORRECTION

Reduce the picture size so that the sides of the raster are visible. Position the magnets so that the sides are straight.

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

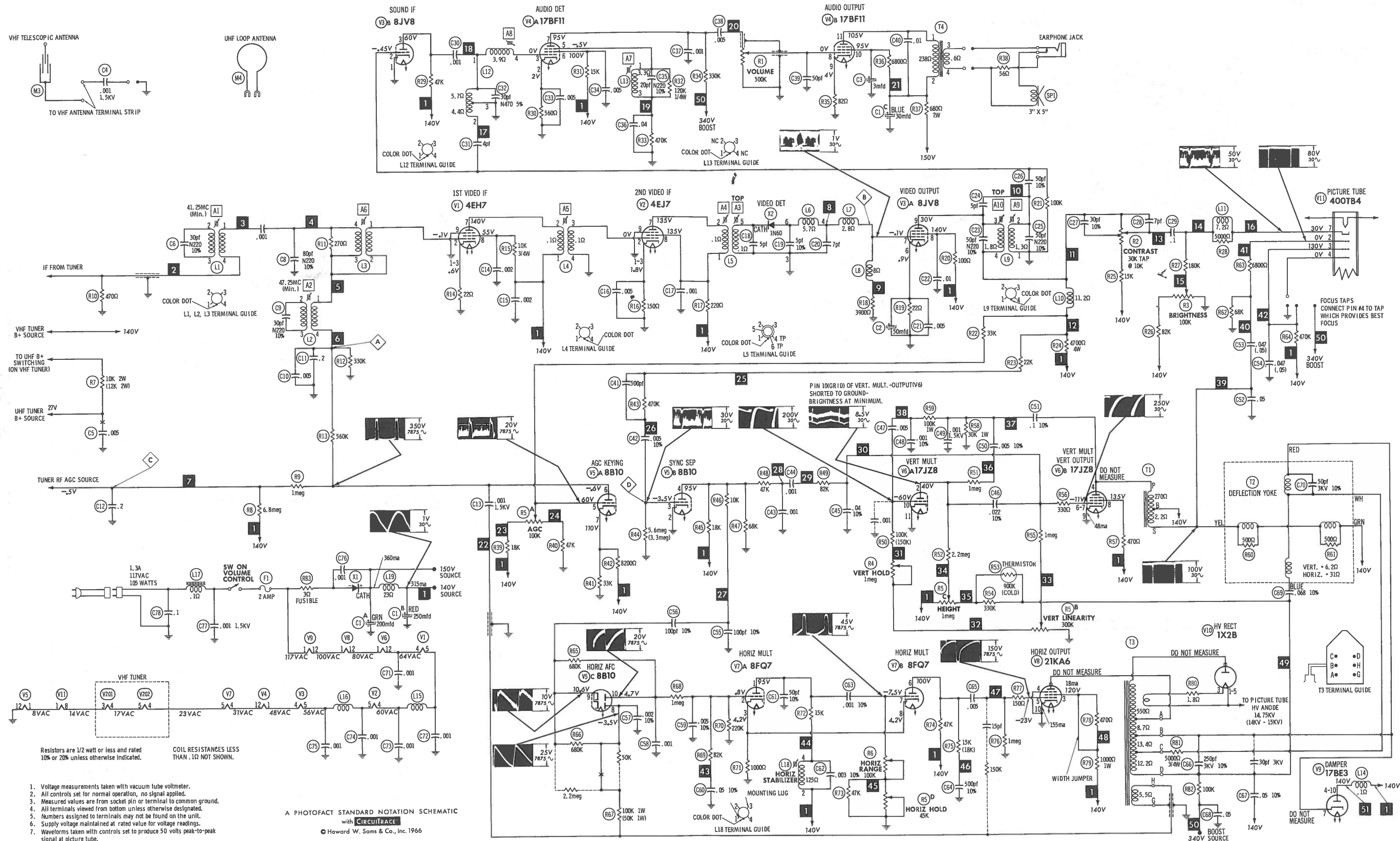
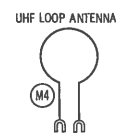
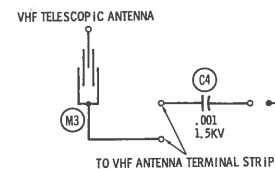
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NA640 109876543210

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DATE 12 -66

SET 857 FOLDER 1





Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.

COIL RESISTANCES LESS THAN .1Ω NOT SHOWN.

1. Voltage measurements taken with vacuum tube voltmeter.
2. All controls set for normal operation, no signal applied.
3. Measured values are from socket pin or terminal to common ground.
4. All terminals viewed from bottom unless otherwise designated.
5. Numbers assigned to terminals may not be found on the unit.
6. Supply voltage maintained at rated value for voltage readings.
7. Waveforms taken with controls set to produce 50 volts peak-to-peak signal at picture tube.

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RESISTANCE MEASUREMENTS

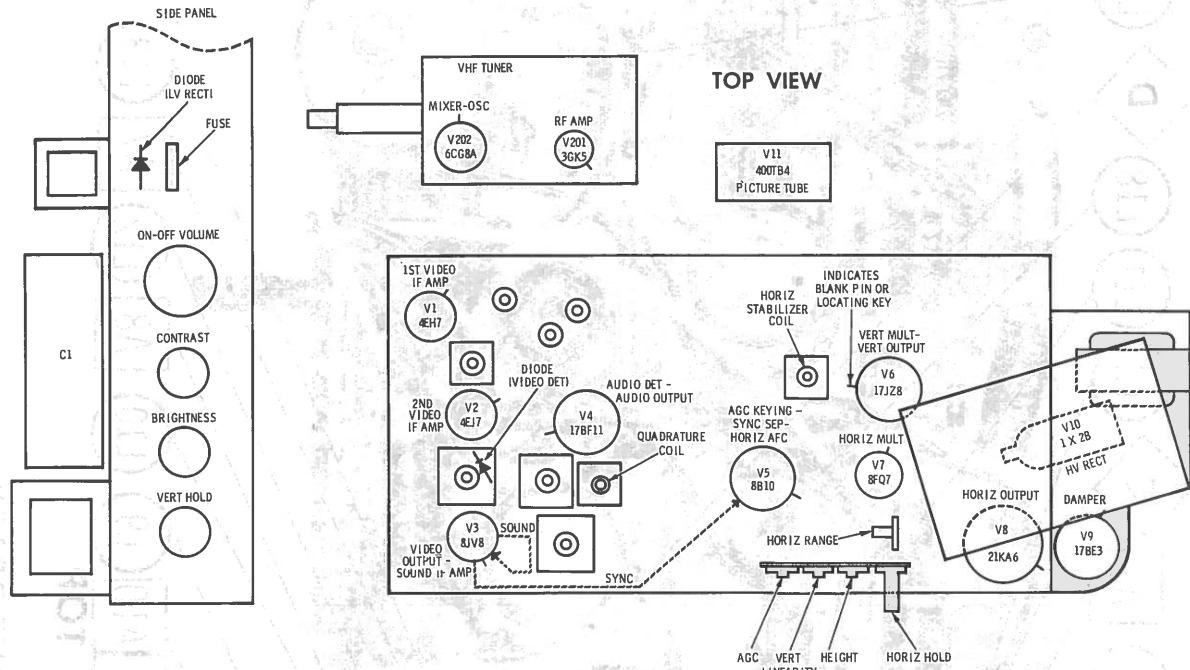
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
V1	4EH7	22Ω	330K	22Ω	22Ω	20Ω	NC	23Ω †	10K †	0Ω			
V2	4EJ7	150Ω	1Ω	150Ω	20Ω	18Ω	NC	243Ω †	243Ω †	0Ω			
V3	8JV8	0Ω	100K	47K †	16Ω	18Ω	22Ω	3900Ω ●	123Ω †	4000Ω †			
V4	17BF11	16Ω	560Ω	9.6Ω	NC	470K	15K †	430K ‡	50K	82Ω	7500Ω †	920Ω †	11Ω
V5	8B10	3Ω	0Ω	5.6meg	18K †	32K #	890K	20K #	100K	700K	900K	NC	0Ω
V6	17JZ8	27Ω	2.4meg † 3meg #	NC	293Ω	NC	1.2meg	1.2meg	493Ω †	0Ω	620K	0Ω	22Ω
V7	8FQ7	15K †	220K	1000Ω	11Ω	8Ω	47K †	40K	1000Ω	NC			
V8	21KA6	33Ω	NC	1000Ω †	0Ω	1meg	NC	NC	NC	NC	0Ω	NC	27Ω
V9	17BE3	38.5Ω	NC	NC	23Ω †	NC	NC	26Ω ‡	NC	NC	23Ω †	NC	33Ω
V10	1X2B												
V11	400TB4	3Ω	75K	470K †	0Ω	NC	NC	220K	5Ω				
V201	3GK5	0Ω	1.9meg	5Ω	6Ω	1200Ω †	0Ω	0Ω					
V202	6CG8A	10K	10K †	0Ω	8Ω	6Ω	23Ω †	22K †	0Ω	225K			
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

- READING DEPENDS ON POLARITY OF METER CONNECTIONS.
- ‡ MEASURED FROM TERMINAL D OF T3.

NC NO CONNECTION

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce indicated symptoms. Refer to tube placement chart for location and type of tube.

POWER SUPPLY FAILURE

No raster, no sound Fuse F1, Rectifier X1

SWEEP FAILURE

No raster, has sound V7, V8, V9, V10
No vertical deflection V6
Poor vert. linearity or foldover V6
Poor horiz. linearity or foldover V7, V8, V9
Narrow picture V7, V8, V9, X1
Vert. off freq. V6
Horiz. off freq. V5, V7

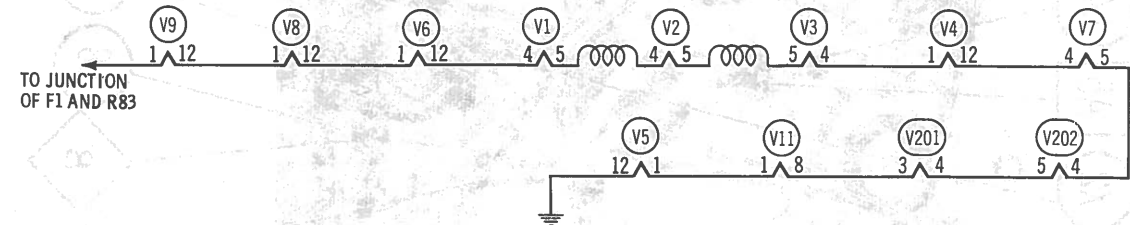
LOSS OF PICTURE OR SOUND

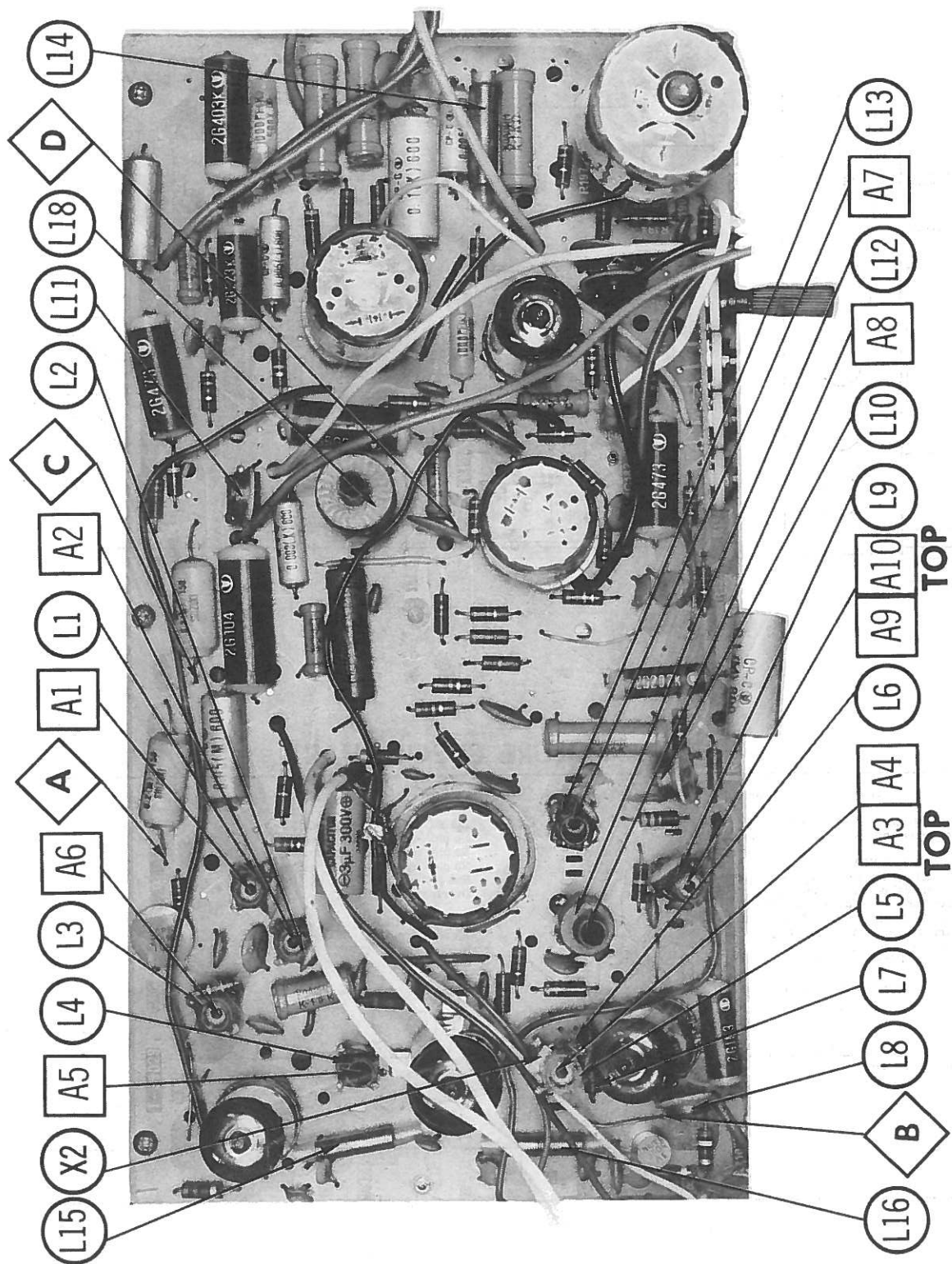
No pic, no sound, has raster V1, V2, Video Detector X2, V3
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V3, V11
Has pic, no sound V3, V4
Overloaded picture V5

SYNC FAILURE

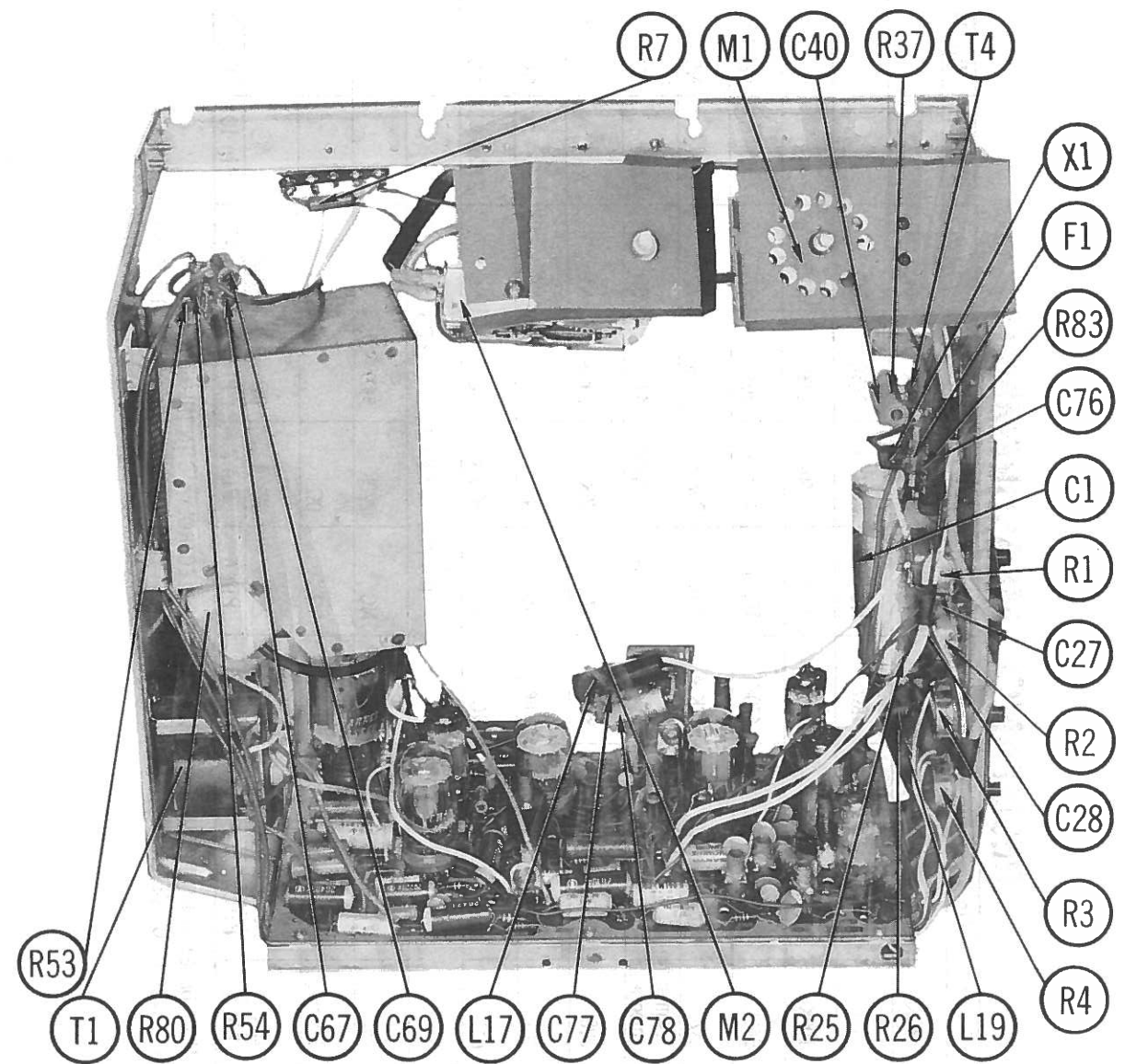
No vert. sync V5
No horiz. sync V5
No vert. or horiz. sync V5

This receiver employs tubes used in a series filament network, an open filament in any tube will cause the set to be inoperative. (See circuit below.)

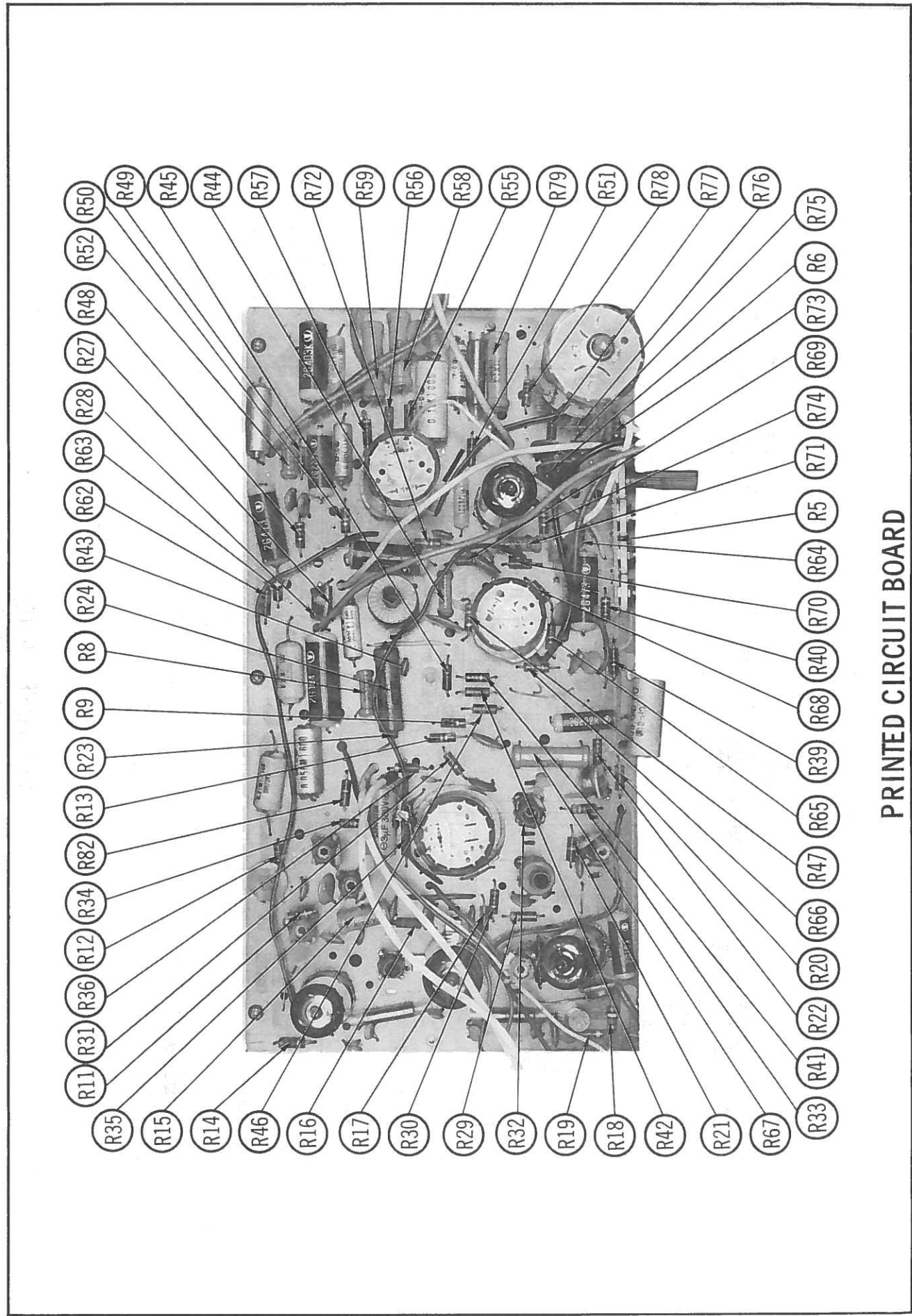




PRINTED CIRCUIT BOARD



CHASSIS — FRONT VIEW



PRINTED CIRCUIT BOARD

ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.

Video IF Alignment

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Responses may vary slightly from those shown. Connect variable bias supplies to IF AGC line (point A) and to tuner AGC line (point B). Adjust to obtain a response curve which shows no indication of overload (approximately -5 volts to point A and -1½ volts to point B). Disable Oscillator section of Mixer-Osc. Set Channel Selector to any non-interfering channel.

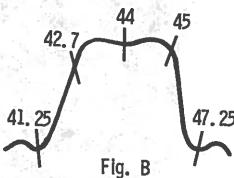
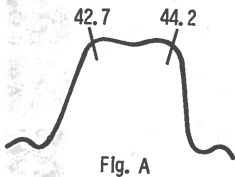
INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point A. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC 47.25MC	A1 A2	Adjust for MINIMUM.
2. Connect DC probe of a VTVM thru a 47K resistor to point B. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		42.7MC 44.2MC 44MC 45MC	A3, A6 A4 A5 Mixer Plate Coil	Adjust for maximum.
3. Connect vertical input of a scope to point A. Low side to ground.	Connect high side to pin 2 (grid) of V2. Low side to ground.	44MC (10MC Sweep)	42.7MC 44.2MC	A3 A4	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Fig. A.
4. Connect vertical input of a scope to point B. Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	44MC 42.7MC 45MC	A5 A6 Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Fig. B. In order to obtain a proper response, it may be necessary to slightly retouch A3 and A4.

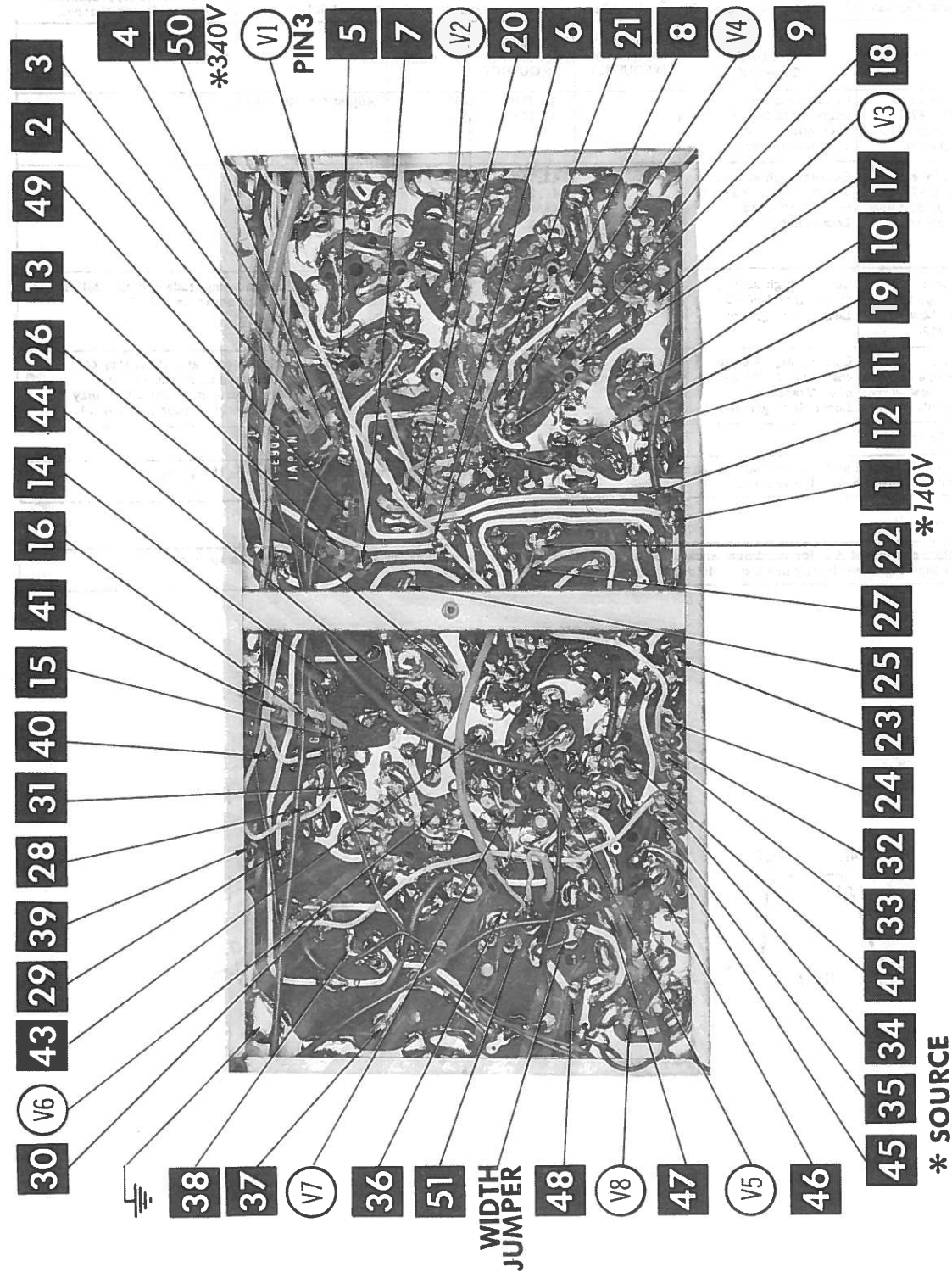
4.5MC Trap Alignment

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A10 for MINIMUM beat interference.

Sound IF Alignment

Tune in a station and adjust A7 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce signal while aligning for undistorted output by adjusting A8 and A9.

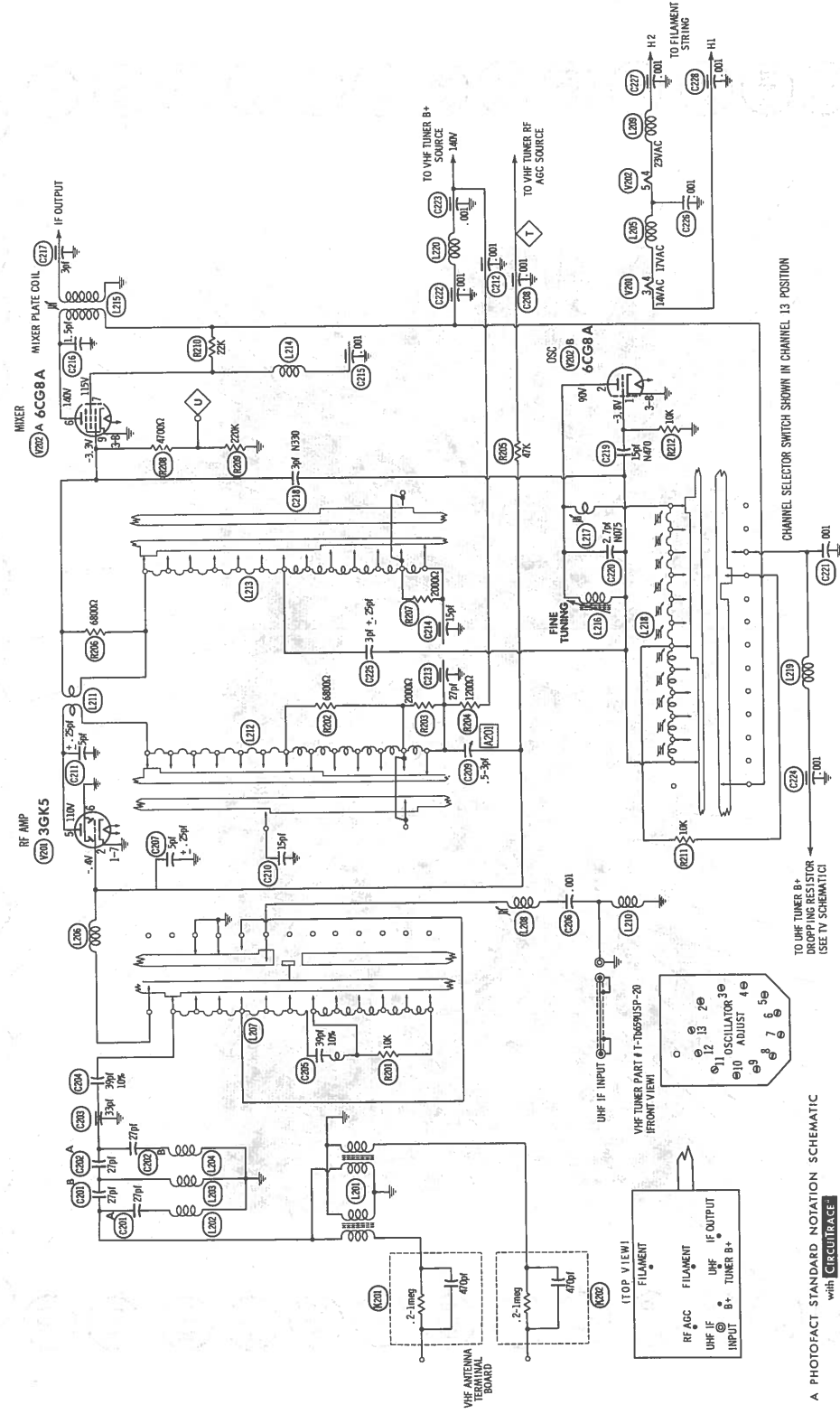




A Howard W. Sams **CIRCUITRACE**® Photo

PRINTED CIRCUIT BOARD

ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



VHF TUNER A809

CHANNEL MASTER
MODEL 6574

UHF TUNER
PARTS LIST AND DESCRIPTION

UHF TUNER A806

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X301	SE3002	UHF Oscillator		GE-11	SK-3019	NPN

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X302		1N82	1N82A	1N82AG			

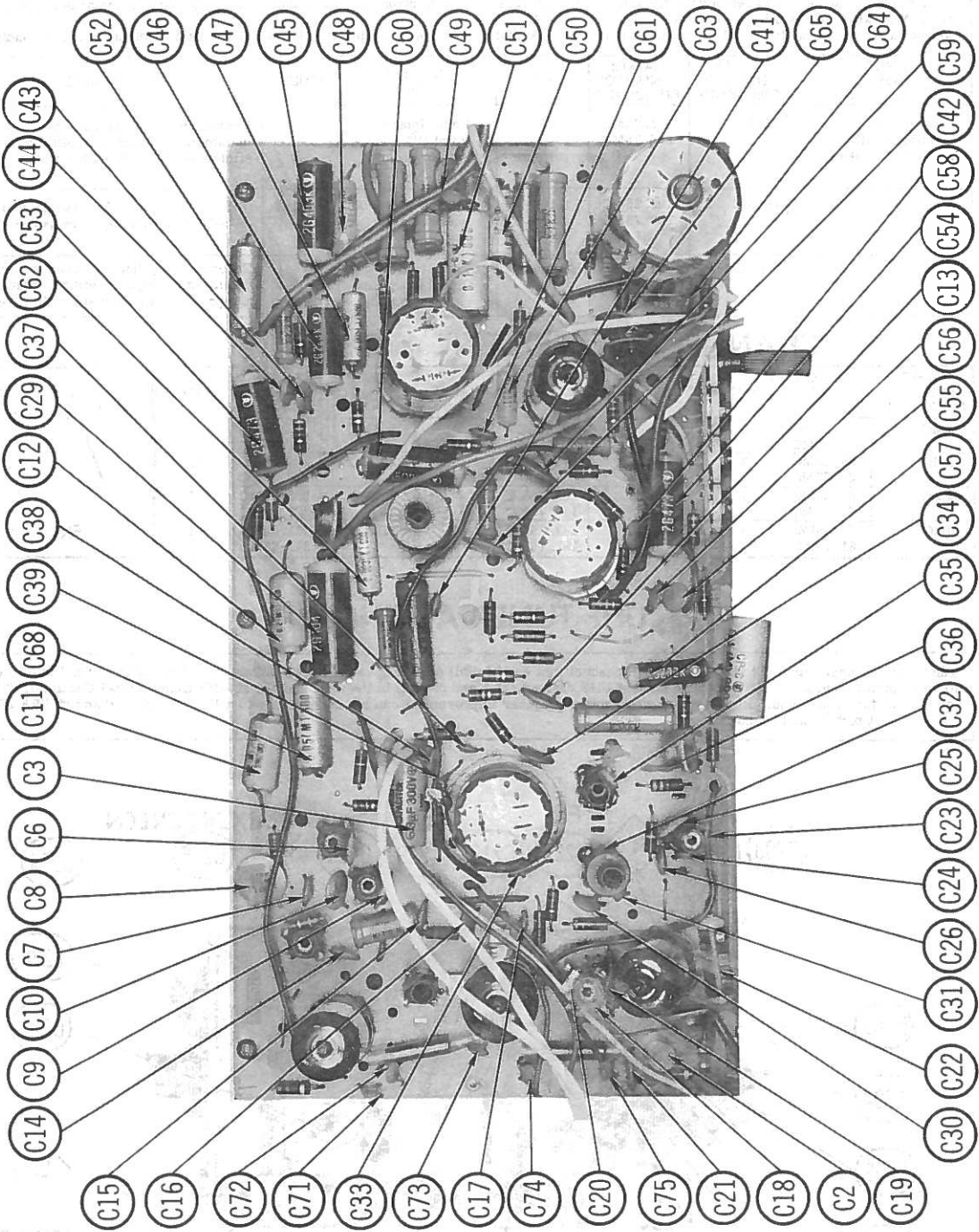
CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	.82pf	N470		TCZ-6R8				
C302	275-330							
C303	2.2							10TCT-V30
C304								
C305	.001		EF-001	MFT-1000		CCF-102	CT280A	
C306								
C307								

COILS (RF-IF)

ITEM No.	USE	Channel Master PART No.	NOTES
L301	Antenna		

ITEM No.	USE	Channel Master PART No.	NOTES
L302	Mixer Output		



PRINTED CIRCUIT BOARD

CHANNEL MASTER
MODEL 6574

FOLDER 1

VHF TUNER ALIGNMENT INSTRUCTIONS

Oscillator Adjustments

The individual oscillator slugs are accessible through a hole in the front of the tuner. Set the fine tuning to the center of its range. Starting with the highest channel in the area, adjust the appropriate oscillator slugs in descending order for best picture and sound.

RF and Mixer Alignment

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at point \diamond . Adjust bias to obtain response curve which shows no indication of overloading.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Across antenna terminals with 120 Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point \diamond , low side to ground		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2.	"	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A201	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point \diamond , low side to ground.		Reduce bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils if required.

CHANNEL & FREQUENCY CHART

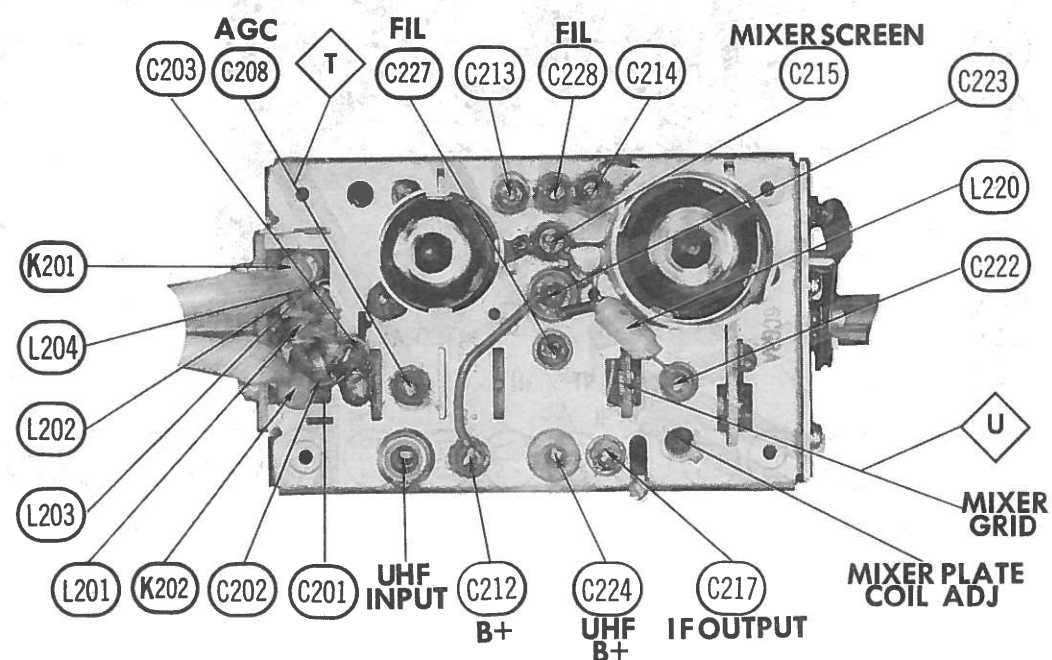
SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL
57MC	55.25MC 59.75MC	2	85MC	83.25MC 87.75MC	6	195MC	193.25MC 197.75MC	10
63MC	61.25MC 65.75MC	3	177MC	175.25MC 179.75MC	7	201MC	199.25MC 203.75MC	11
69MC	67.25MC 71.75MC	4	183MC	181.25MC 185.75MC	8	207MC	205.25MC 209.75MC	12
79MC	77.25MC 81.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13



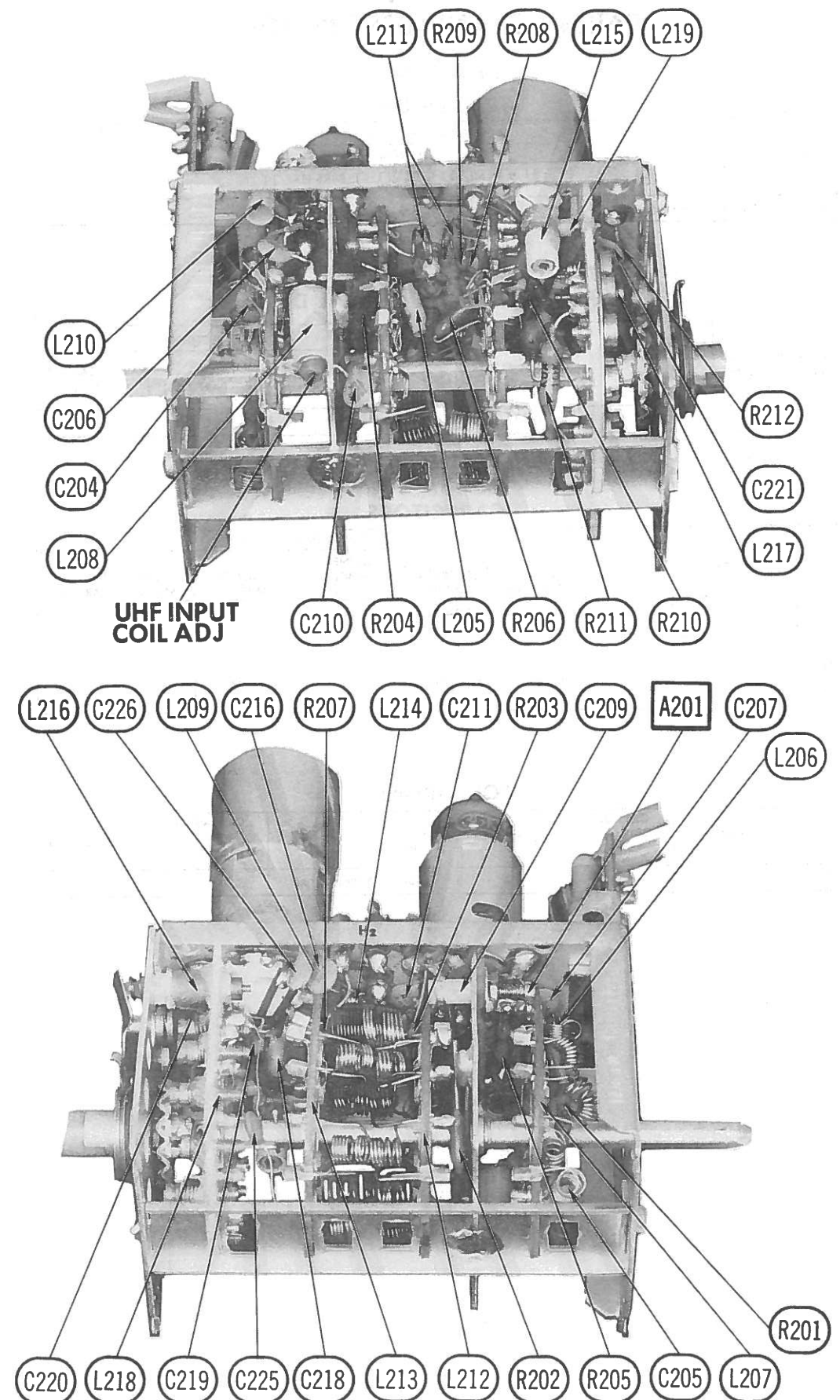
FIG. 201

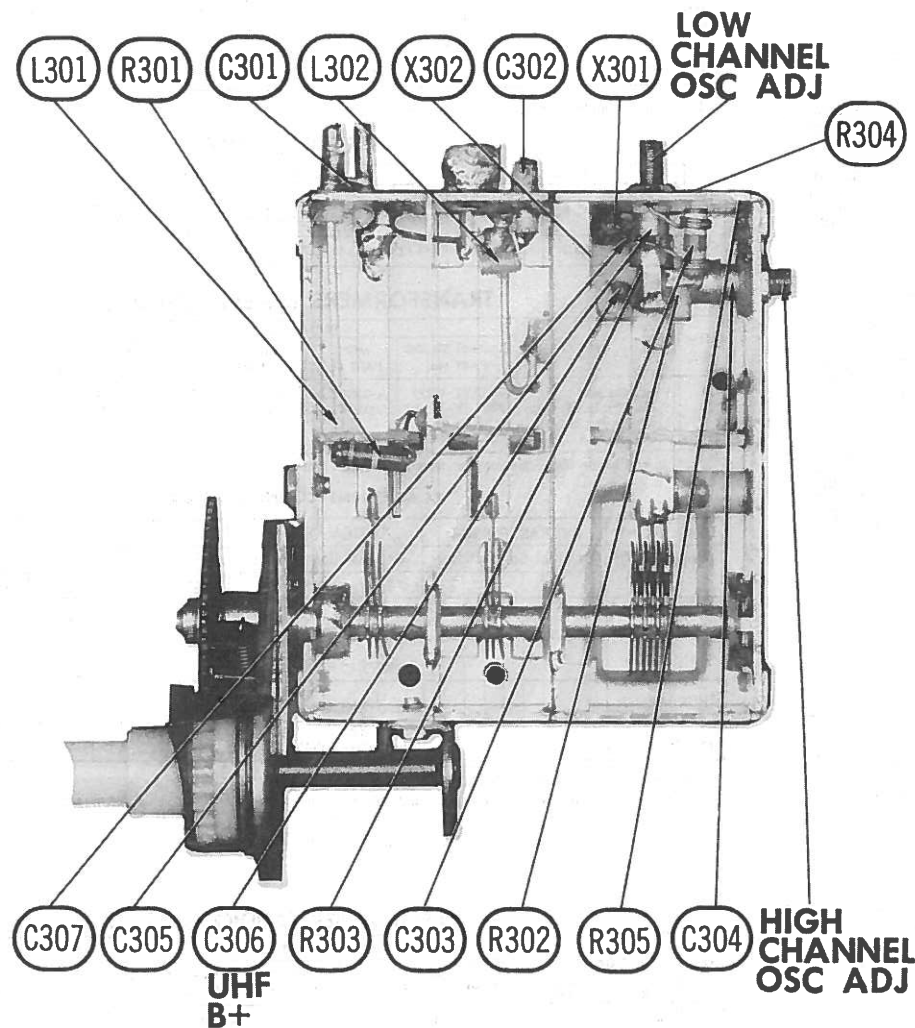
UHF TUNER ALIGNMENT

Tune UHF Channel Selector to the lowest UHF channel (low end of dial) operating in the area. Adjust UHF Low Channel Oscillator Trimmer for best picture and sound. Tune to the highest UHF channel (high end of dial) in the area and adjust UHF High Channel Oscillator Trimmer for best picture and sound. Repeat above steps until no further improvement can be made. Tune to a UHF station and adjust UHF IF Input Coil for best picture and sound.



VHF TUNER A809





A PHOTOFAC STANDARD NOTATION SCHEMATIC
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UHF TUNER A806

VHF TUNER PARTS LIST AND DESCRIPTION

VHF TUNER A09

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	3GK5	V202	Mixer - Osc.	6CG8A

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Channel Master PART No.	REPLACEMENT DATA
K201	Antenna Isolation	.2-1meg, 470pf		Centralab RC-471 Sprague AC1-1
K202	Antenna Isolation	.2-1meg, 470pf		Centralab RC-471 Sprague AC1-1

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201A	27 N750 5%			TCN-27			CN7427	10TCU-Q27
B	27 N750 5%			TCN-27			CN7427	10TCU-Q27
C202A	27 N750 5%			TCN-27			CN7427	10TCU-Q27
B	27 N750 5%			TCN-27			CN7427	10TCU-Q27
C203	33							
C204	39 10%	NPO-DI 39	TCZ-39			CCTO-390	CNO439	10TCC-Q39
C205	39 10%	NPO-DI 39	TCZ-39			CCTO-390	CNO439	10TCC-Q39
C206	.001	BPD-001	DD-102		HVX162XP102M	CCD-102	B210	5HK-D10
C207	5 ±.25	NPO-DI 5.0	DTZ-4R7		CY601CH5R0D	CCTO-050	CNO547	10TCC-V50
C208	.001	EF-001	MFT-1000			CCF-102	CT280A	
C209	.5-3		829-3			CV-1	CT565	
C210	15 10%	NPO-DI 15	DTZ-15		CZ601CG150K	CCTO-150	CNO415	10TCC-Q15
C211	5 ±.25	NPO-DI 5.0	DTZ-4R7		CY601CG5R0D	CCTO-050	CNO547	10TCC-V50
C212	.001	EF-001	MFT-1000			CCF-102	CT280A	
C213	27							
C214	15							
C215	.001	EF-001	MFT-1000			CCF-102	CT280A	
C216	1.5	NPO-DI 1.5	DTZ-1R5				CNO515	10TCC-V15
C217	3	NPO-DI 3.0						10TCC-V30
C218	3 N330					*	*	10TCS-V30
C219	15 N470					*	*	10TCT-Q15
C220	2.7 N075							10TCN-V27
C221	.001	BPD-001	DD-102		HVX162XP102M	CCD-102	B210	5HK-D10
C222	.001	EF-001	MFT-1000			CCF-102	CT280A	
C223	.001	EF-001	MFT-1000			CCF-102	CT280A	
C224	.001	EF-001	MFT-1000			CCF-102	CT280A	
C225	3 ±.25	NPO-DI 3.0						10TCC-V30
C226	.001	BPD-001	DD-102		HVX162XP102M	CCD-102	B210	5HK-D10
C227	.001	EF-001	MFT-1000			CCF-102	CT280A	
C228	.001	EF-001	MFT-1000			CCF-102	CT280A	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

COILS (RF-IF)

ITEM No.	USE	Channel Master PART No.	NOTES	ITEM No.	USE	Channel Master PART No.	NOTES
L201	Balun			L211	High Chan. Coupler		
L202	Ant. Input Net.			L212	RF Wafer		
L203	Ant. Input Net.			L213	Mixer Wafer		
L204	Ant. Input Net.			L214	Mixer Screen		
L205	Fil. Choke			L215	Mixer Plate		
L206	RF Choke			L216	Fine Tune		
L207	Ant. Wafer			L217	Osc. Adjust -		
L208	UHF Input			L218	Osc. Wafer		
L209	Fil. Choke			L219	RF Choke		
L210	UHF Input			L220	RF Choke		

† Part of Complete VHF Tuner A809.

CHANNEL MASTER
MODEL 6574

FOLDER 1

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8865 (Single Conductor) 8738 (Two Conductor) 8530 (Solid) Available in 12 Colors
General-use Unshielded Hook-up Wire	Use BELDEN No. 8534 (Stranded) Available in 12 Colors 8225 (Rubber) or 8895 (Plastic)
Power Cord (Interlock Type)	Use BELDEN No. 8230 or 8275
300Ω Tuner Input Lead	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor
300Ω Antenna Lead-in	Use BELDEN No. 8485 (Round) - 5 Conductor
Antenna Rotor Cable	Use BELDEN No. 8488 (Round) - 8 Conductor

TUBES

• AMPEREX • GENERAL ELECTRIC • RCA • SYLVANIA •					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	3GK5	V5	AGC Keying - Sync Sep. - Horiz. AFC	8B10
V202	Mixer - Osc.	6CG8A	V6	Vert. Mult. - Vert. Output	17J28
X301	UHF Osc. (Transistor)	SE3002	V7	Horiz. Mult.	8FQ7
V1	1st Video IF Amp.	4EH7	V8	Horiz. Output	21KA6
V2	2nd Video IF Amp.	4EJ7	V9	Damper	17B53
V3	Video Output - Sound IF	8JVB	V10	RV Rectifier	1X2B
V4	Audio Detector - Audio Output	17BF11			

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	Channel Master PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V11	400TB4				16"

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.360A	1S558	GE-505 or GE-504A 1N60	5A4-D or 5D500 1N60	1N540 or 1N2070	SK-3016 or SK-3017	F-4 or 40C
X2		1N60					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA				
	CAP.	VOLT.	Channel Master PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
C1A	200	200	①	AFHS3-13-93	CC0129.5 & BR20-250	KC3-20 & QTI-9	FP318.85
B	250	200	①				
C	30	200		BCD3050	NLW50-3	MT1-15	PET1575
C2	50	3		PRS1600	BR4-350	QTI-2	TC697
C3	3	300					TVA-1601

① C1A and C1B may be reversed in some versions.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC PART No.	MALLORY PART No.	SPRAGUE PART No.	
C4	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C5	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C6	30	N220 10%						10TCR-Q30	
C7	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C8	80	N220 10%						10TCR-Q82	
C9	30	N220 10%						10TCR-Q30	
C10	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C11	.2	150V	P288N-2			2DP-4-204	PVC602	2PS-P20	
C12	.2	150V	P288N-2			2DP-4-204	PVC602	2PS-P20	
C13	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C14	.002		BPD-002	DD-202	BYX601ZU502P	CCD-202	B220	5HK-D20	
C15	.002		BPD-002	DD-202	BYX601ZU502P	CCD-202	B220	5HK-D20	
C16	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C17	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C18	5		NPO-DI 5.0	DTZ-4R7	CZ601CH5R0D	CCTO-050	CNO547	10TCC-V50	
C19	5	10%	NPO-DI 5.0	DTZ-4R7	CZ601CH5R0D	CCTO-050	CNO547	10TCC-V50	
C20	7		NPO-DI 6.8	DTZ-6R8	CZ601CH6R8D	CCTO-6R8	CNO568	10TCC-V68	
C21	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C22	.01	600V	P688N-01		WMP6S1	6DP-2-103	PVC611	6PS-S10	
C23	50	N220 10%						10TCR-Q50	
C24	5		NPO-DI 5.0	DTZ-4R7	CZ601CH5R0D	CCTO-050	CNO547	10TCC-V50	
C25	50	N220 10%						10TCR-Q50	
C26	50	10%	DI-50	DD-500		CCD-500	GP450	5GA-Q50	
C27	30	10%	DI-30	DD-300		CCD-300	GP430	5GA-Q30	
C28	7		NPO-DI 6.8	DTZ-6R8	CZ601CH5R0D	CCTO-6R8	CNO568	10TCC-V68	
C29	.1	600V	P688N-1	DF-104	PM6P1	6DP-4-104	GEM601	6TM-P10	
C30	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C31	4		NPO-DI 4.7	DTZ-4R7		CCTO-4R7	CNO547	10TCC-V47	
C32	30	N470 5%						10TCT-Q30	
C33	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C34	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C35	20	N220 10%						10TCR-Q20	
C36	.04		TTD-05		HOV101ZV503Z		TA150	TH-S50	
C37	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C38	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C39	50		DI-50	DD-500		CCD-500	GP450	5GA-Q50	
C40	.01	600V	P688N-01		WMP6S1	6DP-2-103	PVC611	6PS-S10	
C41	500		DI-500	DD-501		CCD-501	GP350	5GA-T50	
C42	.005	10%	BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C43	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C44	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C45	.04	600V 10%	P688N-02		WMP6S22	6DP-3-403	PVC6122	6PS-S22	
C46	.022	600V 10%	P688N-005			6DP-1-502	PVC625	6PS-D50	
C47	.005	600V	P688N-001		WMP6D1	6DP-1-102	PVC621	6PS-D10	
C48	.001	500V 10%	BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C49	.001		P688N-005			6DP-1-502	PVC625	6PS-D50	
C50	.005	600V 10%	P688N-1	DF-104	PM6P1	6DP-4-104	GEM601	6TM-P10	
C51	.1	600V 10%	P688N-047	DD-503	PM4S47	4DP-3-473	GEM4147	4TM-S47	
C52	.05	400V							

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS' for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC PART No.	MALLORY PART No.	SPRAGUE PART No.	
C53	.047 600V	(.05) †	P688N-047	DD-503	PM6S47	6DP-3-473	GEM6147	6TM-S47	
C54	.047 600V	(.05) †	P688N-047	DD-503	PM6S47	6DP-3-473	GEM6147	6TM-S47	
C55	100 10%		DI-100	DD-101		CCD-101	GP810	5GA-T10	
C56	100 10%		DI-100	DD-101		CCD-101	GP810	5GA-T10	
C57	.002 600V 10%		P688N-002			6DP-1-202	PVC622	6PS-D20	
C58	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C59	.005 10%		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C60	.05 10%		P488N-05	DF-503	PM4S5	4DP-3-503	GEM415	4TM-S50	
C61	50 10%		DI-50	DD-500		CCD-500	GP450	5GA-Q50	
C62	.003 600V 10%		P688N-003			6DP-1-302	PVC623	6PS-D30	
C63	.001 600V 10%		P688N-001		WMP6D1	6DP-1-102	PVC621	6PS-D10	
C64	500 10%		DI-500	DD-501		CCD-501	GP350	5GA-T50	
C65	.005		BPD-005	DD-502	BYX601ZU502P	CCD-502	B250	5HK-D50	
C66	250 3KV 10%		HVD-30-270	DD30-251	HVY302ZU471P	3HV327	30GA-T25	6DS-D30	
C67	.05 600V 10%		P488N-05	DF-503	PM4S5	4DP-3-503	GEM415	4TM-S50	
C68	.05 600V		P488N-05	DF-503	PM4S5	4DP-3-503	GEM415	4TM-S50	
C69	.068 600V 10%		P688N-068		WMP6S68	6DP-4-683	PVC6168	6PS-S68	
C70	50 3KV 10%		HVD-30-47	DD30-500	HVX302XP470M	CCD-102	B210	5HK-Q50	
C71	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C72	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C73	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C74	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C75	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C76	.001		P688N-001		WMP6D1	6DP-1-102	PVC621	6PS-D10	
C77	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10	
C78	.1 600V		P688N-1	DF-104	PM6P1	6DP-4-104	GEM601	6TM-P10	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
† Alternate Value

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			Channel Master PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	500K	E873 (G2017A)	F2-500K ①, SNK014 ②, KR-1	A47-500K-Z ①, RN-3 ②, SWE-12	BU2 ①, CF25, SS6 ②, GC *	UA55A ①, SN1000 ②, US41 or (RU55A, SL38 ①, SN1000 ②, US41 UA34T253 ①, SN1000 ② or (RU34T24, SL38 ①, SN1000 ②) UA151 ①, SN1000 ② or (RU15L, SL38 ①, SN1000 ②) UA161 ①, SN1000 ② or (RU16L, SL38 ①, SN1000 ②)
R2	Contrast	30K Tapped @ 17K	E874 (T-G2023)	F51-30K ①, SNK014 ②		B20-121X, SK8 ① ② or (BU2 ①, CF49T, SS6 ②) * B11-128, SK8 ① ② or (BU2 ①, CF13, SS6 ②) * B11-137, SK8 ① ② or (BU2 ①, CF17, SS6 ②) *	
R3	Brightness	100K	E876 (T-G2025 T)	F1-100K ①, SNK014 ②	A47-100K-S ①, RN-3 ②		
R4	Vertical Hold	1meg	E875 (T-G2024T)	F1-1meg ①, SNK014 ②	A47-1meg-S ①, RN-3 ②		
R5A	AGC	100K	E879 ①				X201R104B
B	Vertical Linearity	300K	E881 ①				MTC15L1
C	Height	1meg	E880 ②				
D	Horizontal Hold	45K	E882 ③				
R6	Horizontal Range	100K	E990				

① Enlarge mounting hole. ② File flat.

③ For complete unit, order Part #E8-78.

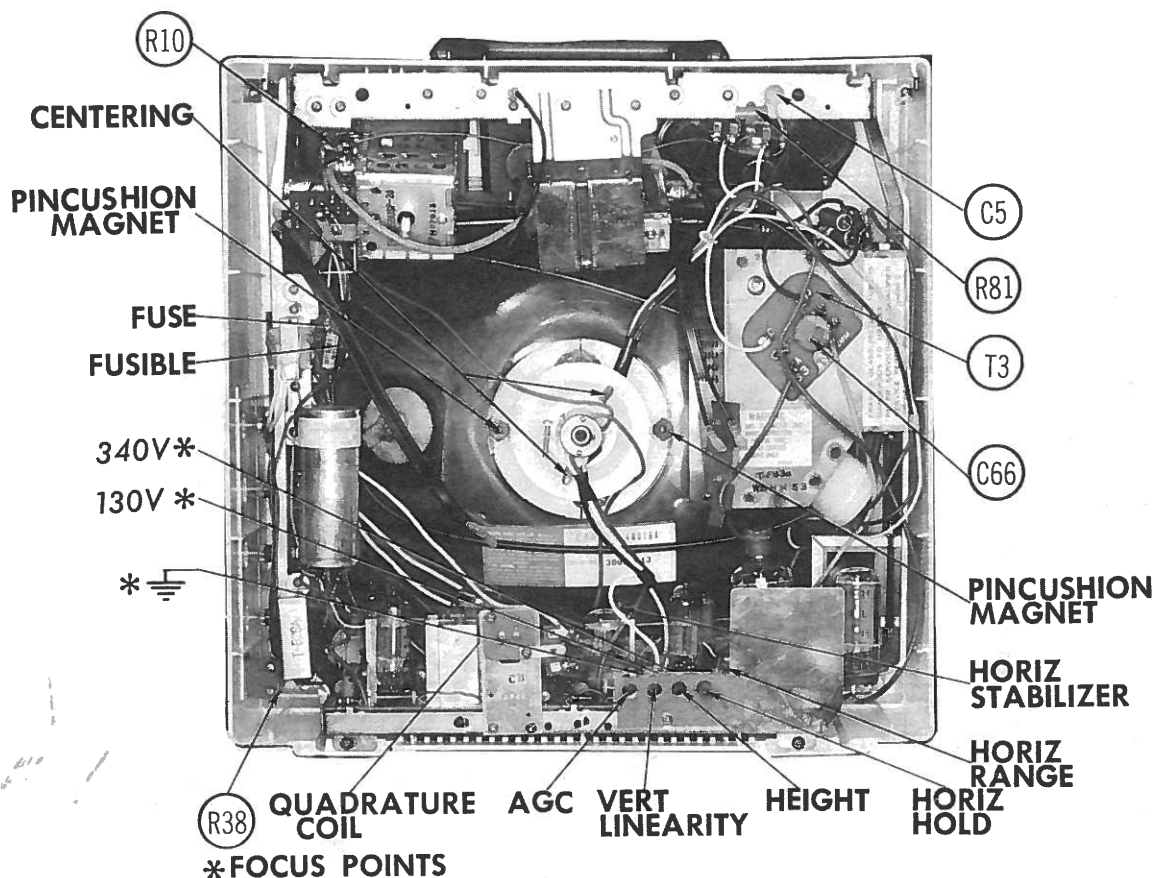
* "SNAPTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	Channel Master PART No.			IRC PART No.	WORKMAN PART No.	Channel Master PART No.
R24	4700Ω 4W	PW5-4500	4G-4700		R83	3Ω			
R53	900K (Cold) Thermistor					Fusible			

COILS (RF-IF)

		REPLACEMENT DATA					
ITEM No.	USE	Channel Master PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.
L1	41.25MC Trap	F963 ①					
L2	47.25MC Trap	F964 ①					
L3	1st Video IF	C840 ②					
L4	2nd Video IF	C838					
L5	3rd Video IF/Detector	C839 † ③			7513-P		
L6	RF Choke (15uh)				74F155AP		
L7	RF Choke (8.4uh)		19-1009	BC-566	74F826AP	RTC-8521	T989
L8	Peaking (270uh)	F960	19-3275	BC-674	72F274AP	RTC-8576	TA810
L9	Sound Takeoff/ 4.5MC Trap	F965 ④					T347
L10	Peaking (480uh)	F961	19-3500		72F474AP	RTC-8530	T352
L11	Peaking (220uh)	F959		BC-677	72F224AP *		T399 *
L12	Sound Interstage	F966 ⑤		BC-673			
L13	Quadrature	F967 ⑦					
L14	RF Choke (50 turns)	F956					
L15	FIL. Choke (30 turns)	F955					
L16	FIL. Choke (30 turns)	F955					
L17	Line Choke (95uh)	F957			5250		



CABINET—REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Connect a clip lead across the Horizontal Stabilizer Coil, L18, and one from point (D) to ground. Set the Horizontal Hold Control, R5D, to mid range

and adjust the Horizontal Range Control, R6, to synchronize the picture. Remove the clip lead from the Stabilizer Coil and adjust coil for MINIMUM drift. Remove clip lead from point (D).

DISASSEMBLY INSTRUCTIONS

TO REMOVE CHASSIS

1. Remove four Phillips head screws holding rear cover.
2. Unplug VHF and UHF antenna leads.
3. Remove four tuner knobs and four side control knobs.
4. Remove picture tube socket, speaker leads, high voltage anode lead, and aquadag grounding lead.
5. Loosen yoke mounting screw and slide yoke off picture tube neck.
6. Remove six Phillips head screws, two below each handle hinge and two at bottom of chassis.

7. Remove chassis.

TO REMOVE PICTURE TUBE

1. Remove chassis.
2. Lay cabinet face down on a soft cloth.
3. Loosen bolt holding picture tube mounting strap.
4. Lift picture tube up.

TO CLEAN PICTURE TUBE SCREEN

1. Remove chassis and picture tube.