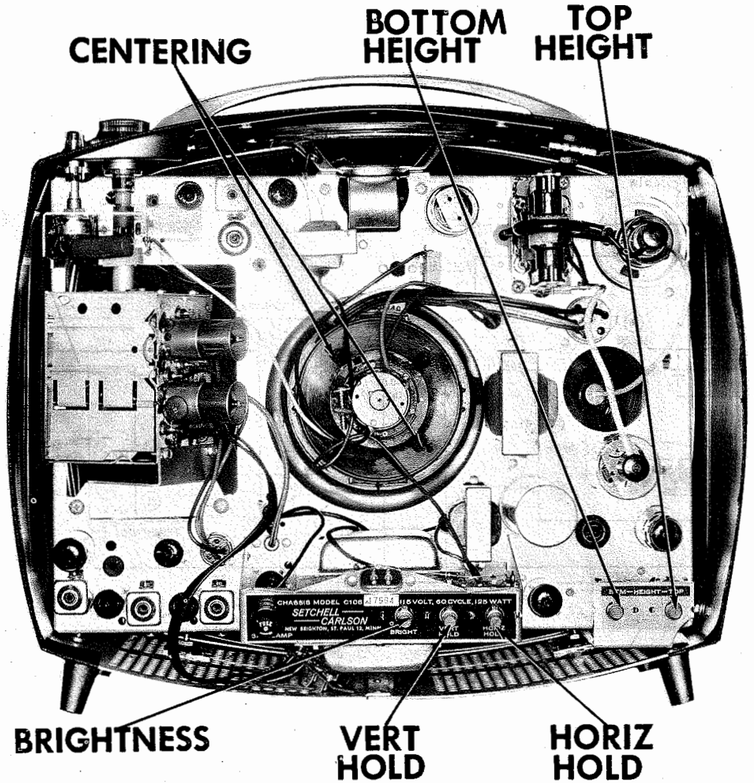


CABINET—REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station. Adjust the Horizontal Hold Control until the picture synchronizes horizontally. If the control must be turned to either extreme to synchronize the picture, or if slow warm-up causes frequency drift, replace the Horizontal Multivibrator Tube and readjust the Horizontal Hold Control.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

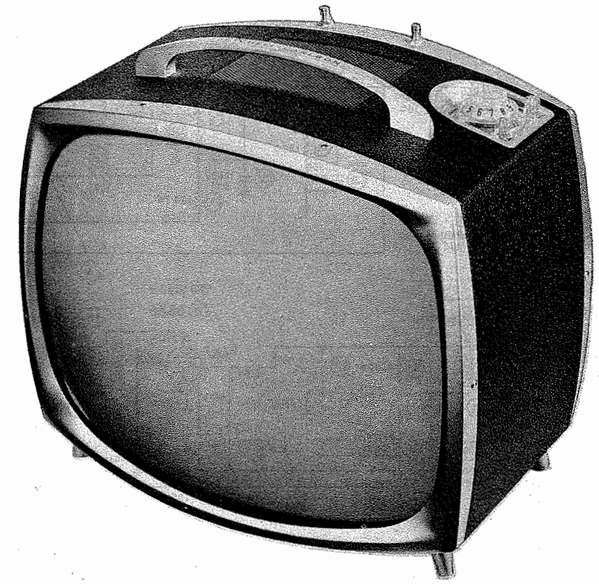
1. Remove 4 push-on type knobs from top of cabinet.
2. Remove knob plate.
3. Remove 6 metal screws holding rear cover. Remove cover.
4. Disconnect yoke plug, picture tube socket and hi voltage lead.
5. Remove screw from bottom left rear of cabinet.
6. Slide chassis from cabinet, removing left side first.

PICTURE TUBE REMOVAL

It is necessary to remove the chassis for picture tube removal.

SETCHELL-CARLSON MODEL P67 (Ch. C106A)

SETCHELL-CARLSON MODEL P67 (Ch. C106A)



MODEL P67 (CH. C106A)

TRADE NAME	Setchell-Carlson Model P67 (Ch. C106A)		
MANUFACTURER	Setchell-Carlson Inc., New Brighton, Minn.		
TYPE SET	Portable Television Receiver		
TUBES	VHF - Seventeen		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING	125 Watts, 1.2 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13 VHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)		

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

Remove 6 screws holding trim strip; 2 on top, 2 at bottom and 1 on each side. Remove trim strip and safety glass.

FUSE

One fuse is used for low voltage power supply protection. (For location, see "Tube Placement Chart".)

FUSE DEVICE

A fuse wire is used for filament protection. (For location, see M4 in photo "Chassis Bottom View - Capacitor & Misc. Ident.")

TUNER OSCILLATOR ADJUSTMENT

To touch up VHF Oscillator it is necessary to remove all knobs and plate on top of cabinet.

AGC

No provision is made to vary the AGC on this receiver.

FOCUS

No provision is made to vary the focus on this receiver.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The horizontal frequency is adjusted by means of a Horizontal Hold Control. (For location, see "Tube Placement Chart".)

BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Ratio Detector secondary (All) located at top of chassis.

CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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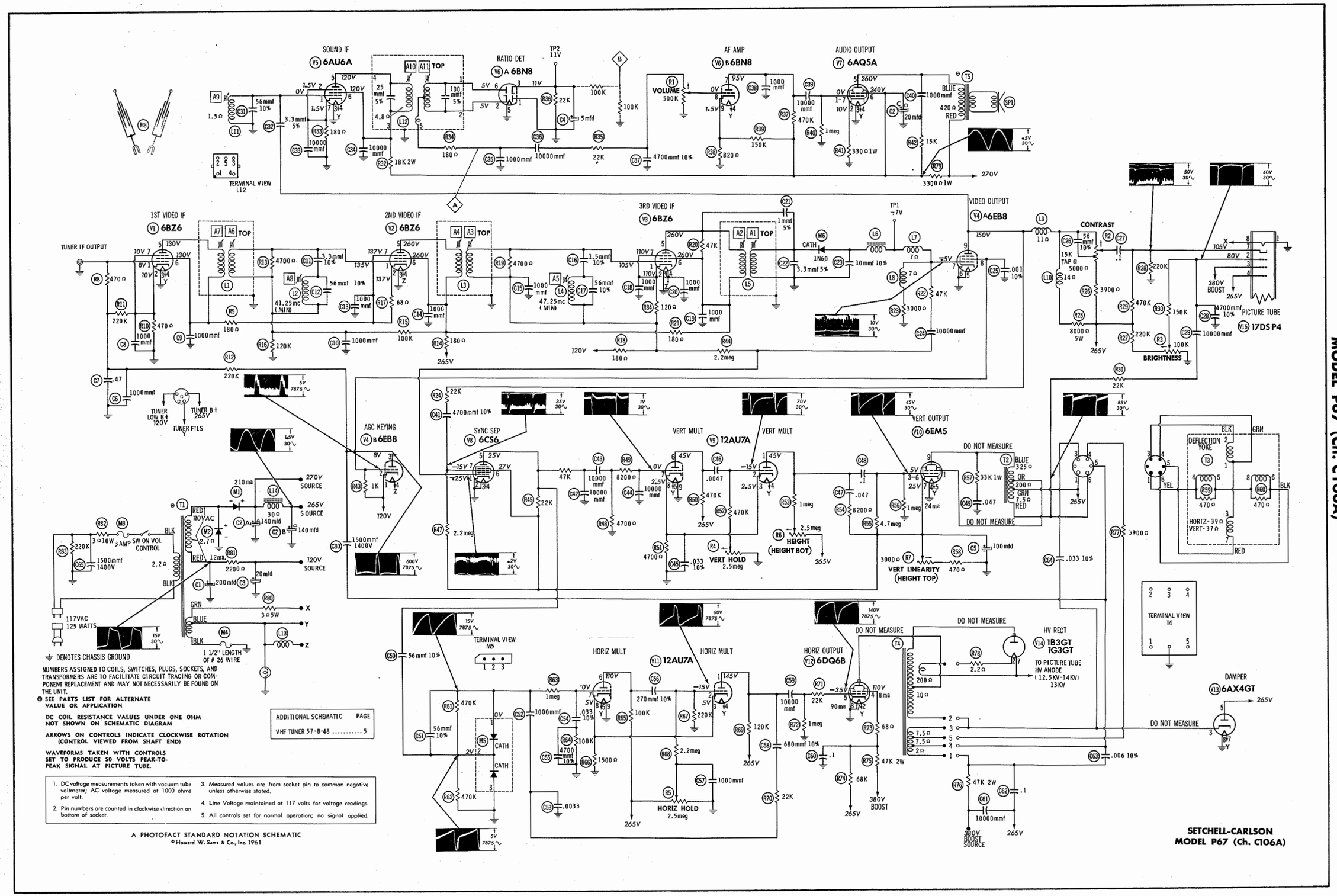
SETCHELL-CARLSON MODEL P67 (Ch. C106A)
SET 530 FOLDER 1



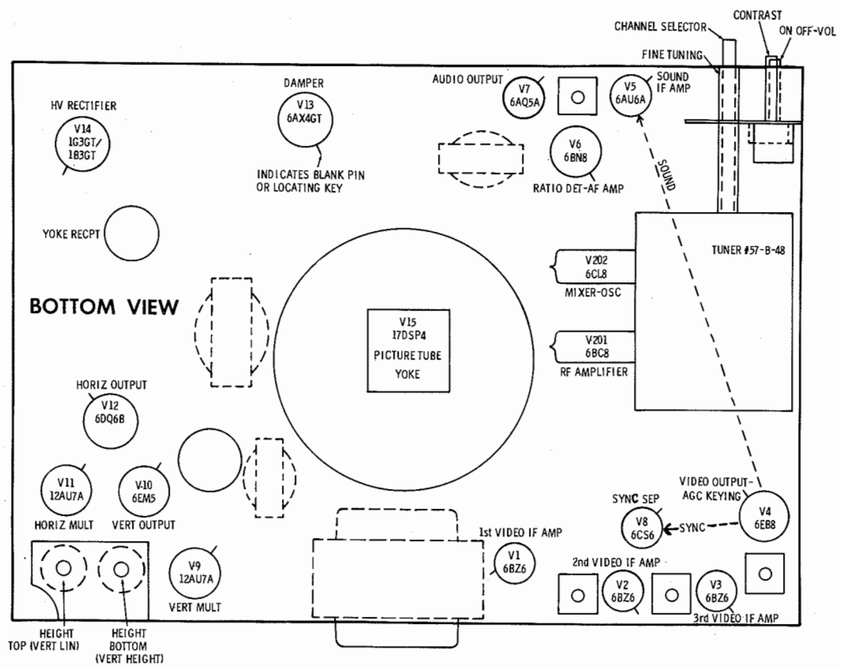
SETCHELL-CARLSON
MODEL P67 (Ch. C106A)

FOLDER 1

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BZ6	220K	470Ω	0Ω	.1Ω	▪248Ω	▪248Ω	470Ω		
V2	6BZ6	55K	INF	0Ω	.1Ω	†210Ω	†210Ω	▪68Ω		
V3	6BZ6	††2400Ω	††2500Ω	0Ω	.1Ω	†390Ω	†390Ω	††2500Ω		
V4	6EB8	††2200Ω	††3200Ω	440K	.1Ω	0Ω	0Ω	3000Ω	††3200Ω	†4000Ω
V5	6AU6A	1.5Ω	180Ω	0Ω	.1Ω	†21K	†21K	180Ω		
V6	6BN8	0Ω	INF	22K	.1Ω	0Ω	INF	†470K	•200Ω	820Ω
V7	6AQ5A	NC	330Ω	0Ω	.1Ω	†420Ω	†3300Ω	1meg		
V8	6CS6	††2.2meg	0Ω	0Ω	.1Ω	23K	•1100Ω	2.2meg		
V9	12AU7A	•†2.5meg	•1.5meg	4700Ω	.1Ω	.1Ω	†470K	13K	4700Ω	0Ω
V10	6EM5	†230Ω	NC	1meg	0Ω	.1Ω	1meg	•1100Ω	NC	†555Ω
V11	12AU7A	†120K	200K	1500Ω	.1Ω	.1Ω	†100K	2meg	1500Ω	0Ω
V12	6DQ6B	NC	.1Ω	TP	†68K	1meg	TP	0Ω	0Ω	TOP CAP †10Ω
V13	6AX4GT	TP	NC	†150K	NC	†30Ω	NC	.1Ω	0Ω	
V14	1G3GT/1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †210Ω
V15	17DSP4	0Ω	•200K	†47K	†30Ω	NC	NC	•150K	1.3Ω	
V201	6BC8	†30Ω	▲470K	▲0Ω	.1Ω	0Ω	INF	2.2meg	0Ω	0Ω
V202	6CL8	15K	††6900Ω	0Ω	.1Ω	0Ω	††4400Ω	††2200Ω	0Ω	210K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

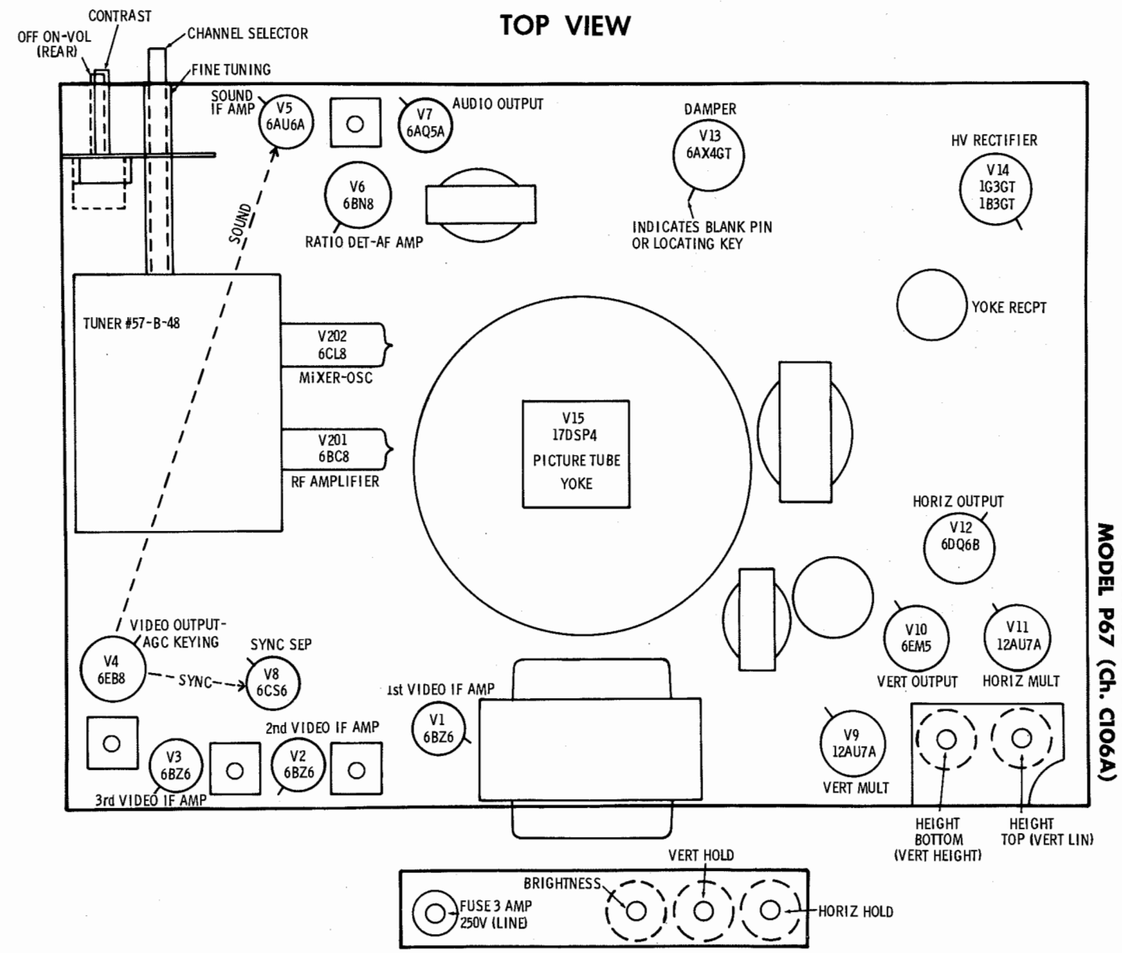
• THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
† MEASURED FROM OUTPUT OF M1.
†† MEASURED FROM JUNCTION OF C1 & R81.
‡ MEASURED FROM PIN 3 OF V13.
▪ MEASURED FROM PIN 2 OF V2.
▲ MEASURED FROM PIN 6 OF V201.
NC NO CONNECTION
TP TIE POINT



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART

TOP VIEW



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 (Line), Rectifiers (B+)

SWEEP FAILURE
No raster, has sound V11, V12, V13, V14, V15
No vertical deflection V9, V10
Poor vert. linearity or foldover V9, V10
Poor horiz. linearity or foldover V11, V12, V13
Narrow picture V11, V12, V13, Rectifiers (B+)
Vert. off freq. V9
Horiz. off freq. Diodes (Horiz. AFC), V11

LOSS OF PICTURE OR SOUND
No pic, no sound, has raster V1, V2, V3, Diode (Video Det.), V4
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V4, V15
Has pic, no sound V5, V6, V7
Overloaded picture V4

SYNC FAILURE
No vert. sync V8
No horiz. sync V8
No vert. or horiz. sync V8

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

The High Voltage lead should be securely taped and kept away from the chassis.
Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: GENERAL CEMENT #8282, 8606, 8606L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.
Connect variable bias to IF AGC line. 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.	High side thru .001 mfd to pin 1 (grid) of 3rd Video IF. Low side to chassis.	44MC	42.25MC 45.75MC	Any non-interfering channel	Vert. Amp. thru 10K to TP-1. Low side to chassis.	A1, A2,	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
2.	High side thru .001 mfd to pin 1 (grid) of 2nd Video IF. Low side to chassis.	"	42.25MC 45.75MC 47.25MC	"	"	A3, A4, A5	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Adjust A5 to place 47.25MC marker in trap notch.
3.	High side thru .001 mfd to pin 1 (grid) of 1st Video IF. Low side to chassis.	"	41.25MC 42.25MC 45.75MC	"	"	A6, A7, A8	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Adjust A8 to place 41.25MC marker in trap notch.
4.	Place a thin insulated metal strip between the Mixer-Osc. tube and tube shield. Connect the high side of sweep generator to the metal strip. Low side to chassis.	"	42.25MC 45.75MC	"	"	Mixer Plate Coil	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.

SOUND IF ALIGNMENT

Connect two matched 100K (±1%) resistors in series from point TP-2 to chassis. The junction of these two resistors is alignment point (B) as shown on the schematic.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
5.	High side thru .01 mfd to TP-1. Low side to chassis.	4.5MC (Unmod.)	Any non-interfering channel	DC probe to TP-2. Common to chassis.	A9, A10	Adjust for maximum deflection.
6.	"	"	"	DC probe to point (A). Common to Point (B).	A11	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

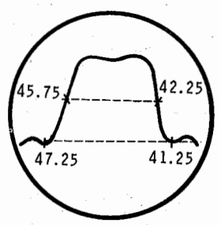
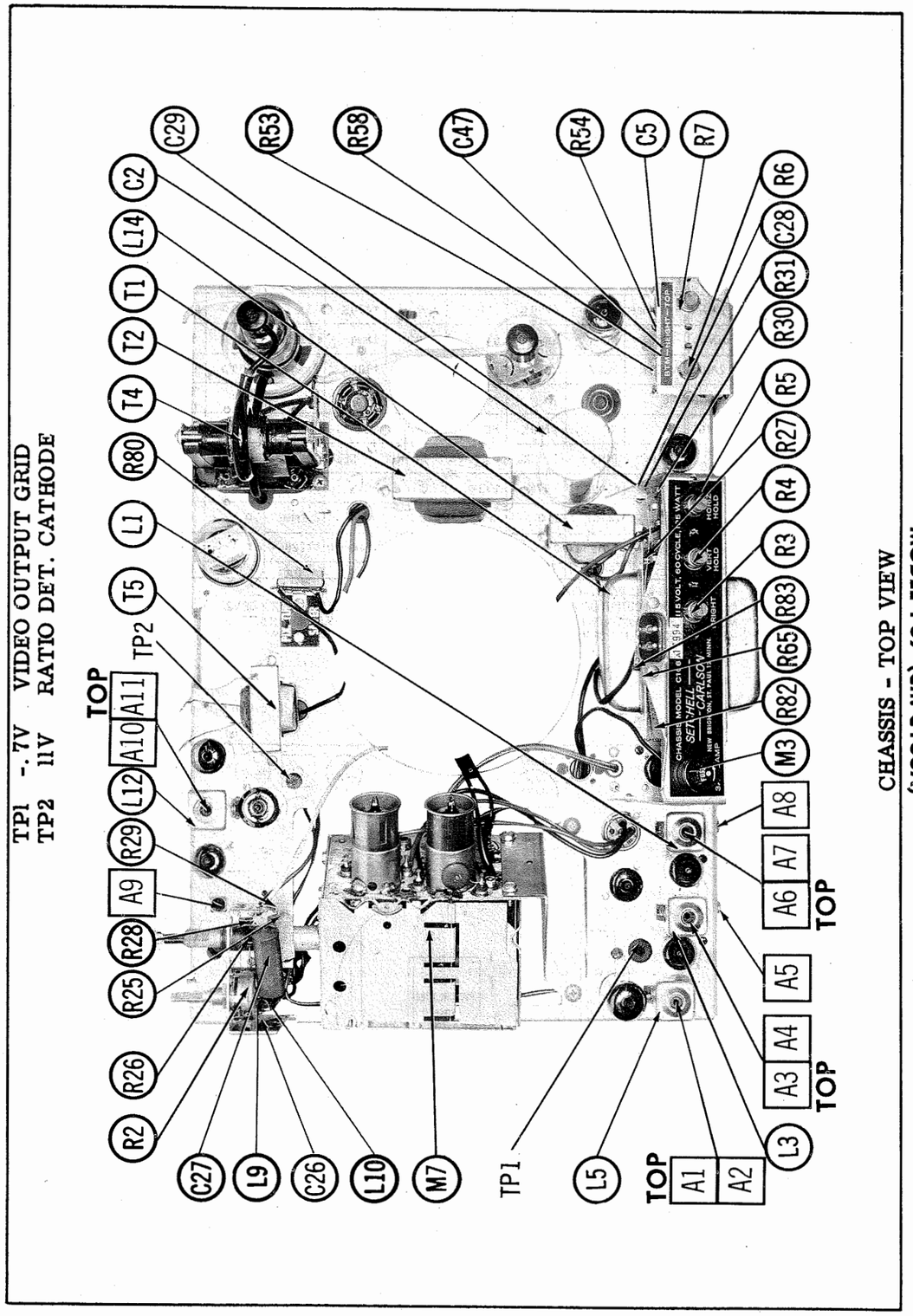


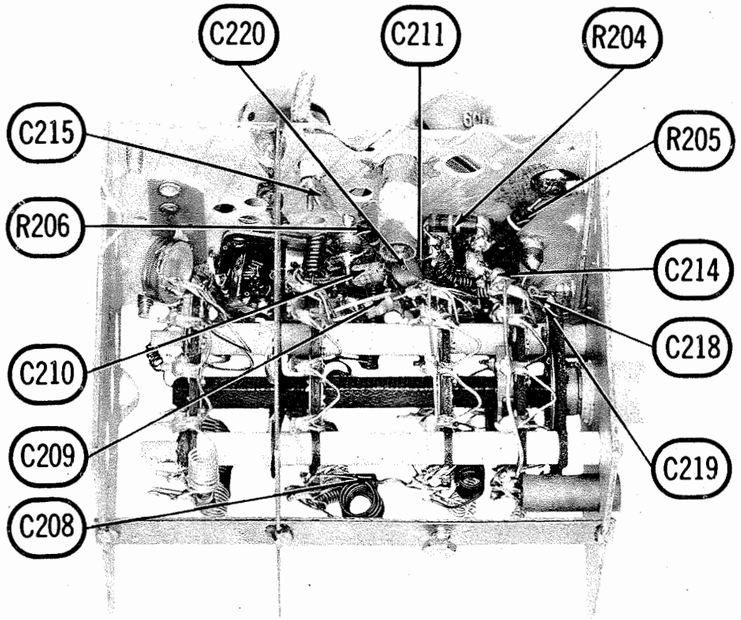
FIG.1



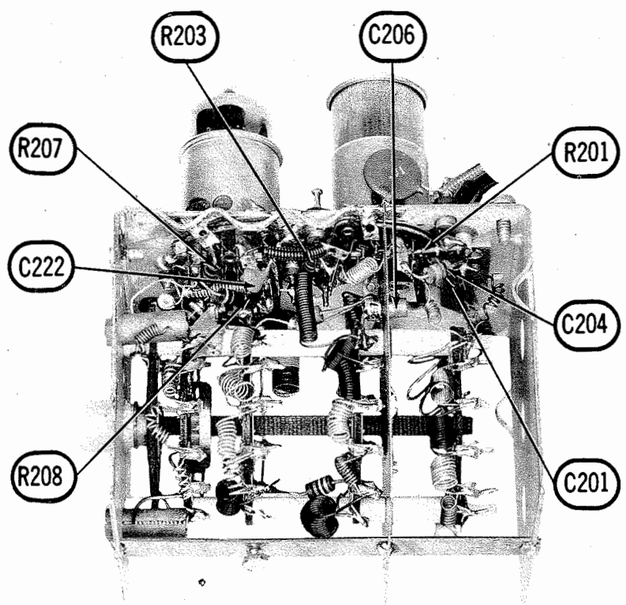
CHASSIS - TOP VIEW

SETCHELL-CARLSON
MODEL P67 (Ch. C106A)

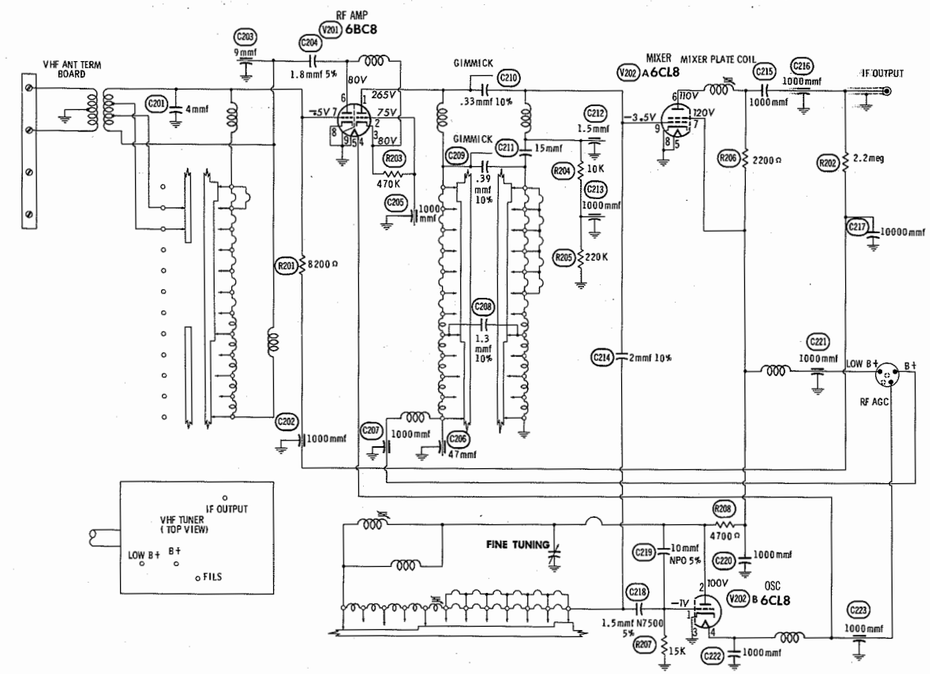
FOLDER 1



VHF TUNER 57-B-48 - LEFT SIDE



VHF TUNER 57-B-48 - RIGHT SIDE



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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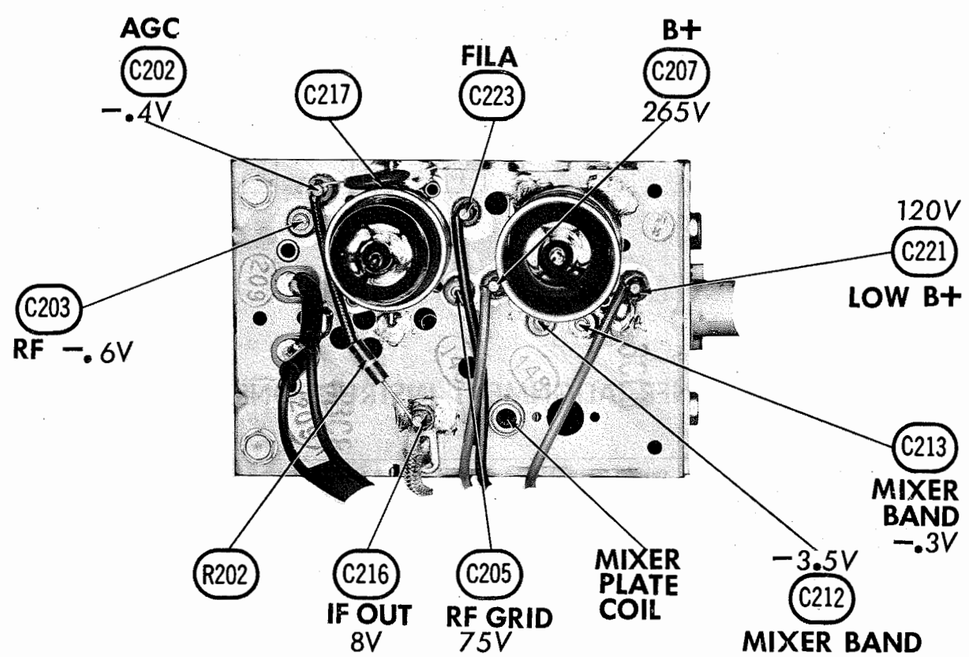
VHF TUNER 57-B-48



VHF TUNER 57-B-48 - TOP VIEW

VHF TUNER PARTS LIST AND DESCRIPTIONS

57—B—48

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
	◆ GENERAL ELECTRIC ◆			RAYTHEON ◆ SYLVANIA ◆	
V201	RF Amplifier	6BC8	V202	Mixer - Osc.	6CL8

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic 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.
C201	4				C10V4C			10TCC-V39
C202	1000		EF-001	MFT-1000		CCF-102	CT280A	
C203	9							
C204	1.8 5%				C10V2C			10TCC-V18
C205	1000		EF-001	MFT-1000		CCF-102	CT280A	
C206	47							
C207	1000		EF-001	MFT-1000		CCF-102	CT280A	
C208	1.3 10%		NPO-SI 1.5	TCZ-1R5		CCTO-1R5	CNO-515	10TCC-V15
C209	.39 10%							
C210	.33 10%							
C211	15		DI-15	DD-150	L10Q15	CCD-150	GP415	10TS-Q15
C212	1.5							
C213	1000		EF-001	MFT-1000		CCF-102	CT280A	
C214	2 10%		NPO-SI 2.2	TCZ-2R2	C10V2C	CCTO-2R2		10TCC-V22
C215	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	10TS-D10
C216	1000		EF-001	MFT-1000		CCF-102	CT280A	
C217	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C218	1.5 N7500 5%							
C219	10 NPO 5%		NPO-SI 10	TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C220	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	10TS-D10
C221	1000		EF-001	MFT-1000		CCF-102	CT280A	
C222	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	10TS-D10
C223	1000		EF-001	MFT-1000		CCF-102	CT280A	

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R201	8200Ω				R205	220K			
R202	2.2meg				R206	2200Ω			
R203	470K				R207	15K			
R204	10K				R208	4700Ω			

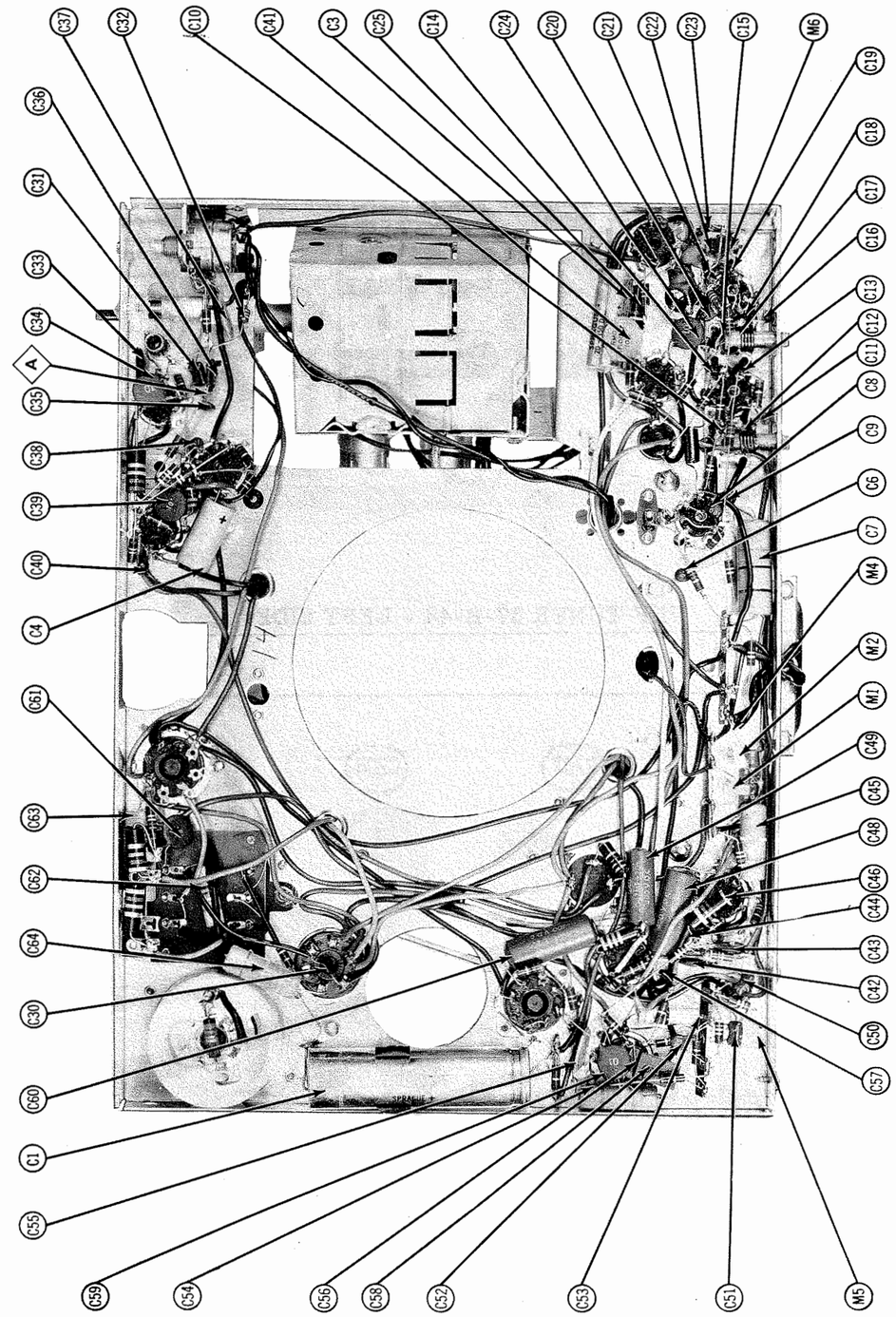
VHF TUNER ALIGNMENT INSTRUCTIONS

VHF OSCILLATOR ALIGNMENT

Set the Fine Tuning to the center of its range. One slug for high band adjustment is located at 2 o'clock, and should be adjusted first. The low band adjustment is located at 6 o'clock. Adjust for best picture and sound.

VHF RF AND MIXER ALIGNMENT

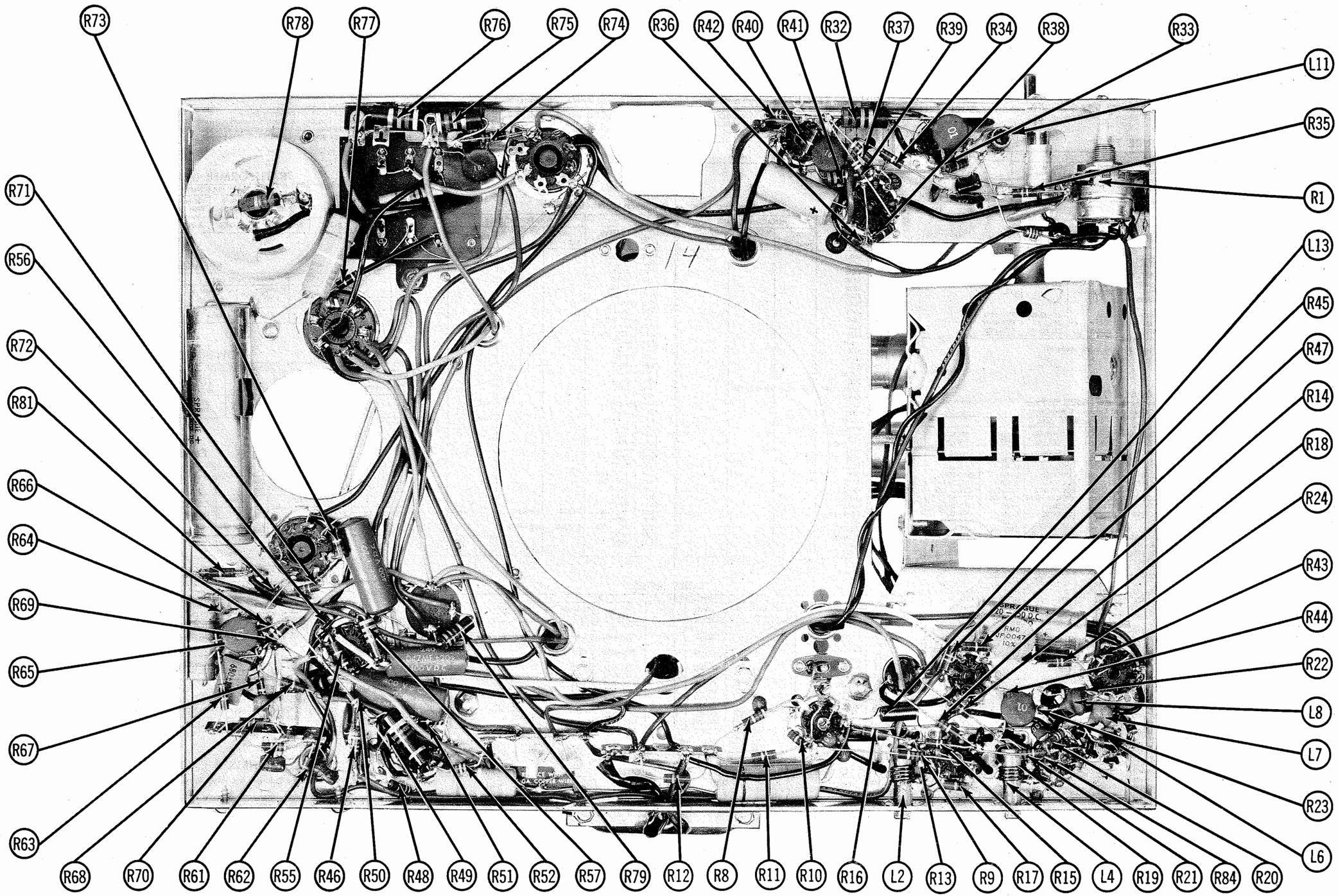
This portion of the tuner has been properly aligned at the factory and is very stable. Alignment of this portion should not be attempted in the field.



CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.

SETCHELL-CARLSON
MODEL P67 (Ch. C106A)

FOLDER 1



CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	TYPE (GENERAL ELECTRIC / RAYTHEON / SYLVANIA)	ITEM No.	USE	TYPE (GENERAL ELECTRIC / RAYTHEON / SYLVANIA)
V1	1st Video IF Amp.	6BZ6	V8	Sync Sep.	6CS6
V2	2nd Video IF Amp.	6BZ6	V9	Vert. Mult.	12AU7A
V3	3rd Video IF Amp.	6BZ6	V10	Vert. Output	6EM5
V4	Video Output - AGC Keying	6EB8	V11	Horiz. Mult.	12AU7A
V5	Sound IF Amp.	6AU6A	V12	Horiz. Output	6DQ6B
V6	Ratio Det. - AF Amp.	6BN8	V13	Damper	6AX4GT
V7	Audio Output	6AQ5A	V14	HV Rectifier	1G3GT/1B3GT

PICTURE TUBE

ITEM No.	REPLACEMENT DATA: Setchell-Carlson PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	NOTES
V15	17DSP4	17DSP4 ①	17DSP4 ①		17DSP4 ②	① Aluminized ② Silver Screen "85"

ELECTROLYTIC CAPACITORS

ITEM No.	RATING: CAP.	RATING: VOLT.	REPLACEMENT DATA: Setchell-Carlson PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
C1	200	200		PRI-075	BR20025	WS342	TD-200-200	TVA-1480	
C2A	▲140	350		AFH3-29-98	D0046	WP332.44		TVLS-3648 *	
B	▲140	350			BR10035				
C	■20	350							
C3	20	150		PRS1440	BBR20-150	TC45	TD-20-150	TVA-1410	
C4	5	50		PRS1310	BBR5-50	TC30	TD-5-50	TVA-1303	
C5	100	50		PRS1360	BR1005	TC3501	TD-100-50	TVA-1310	

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

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic 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.
C6	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C7	.47	200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C8	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C9	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C10	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C11	3.3	10%		NPO-SI 3.3	TCZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C12	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C13	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C14	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C15	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C16	1.5	10%		NPO-SI 1.5	TCZ-1R5	C10V15C		CNO-515	10TCC-V15
C17	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C18	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C19	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C20	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C21	1	5%		NPO-SI 1.0	TCZ-1			CNO-510	10TCC-V10
C22	3.3	5%		NPO-SI 3.3	TCZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C23	10	10%		NPO-SI 10	TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C24	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C25	.001	400V 10%		V84C6D1-10%	DD-102	PM6D1	6DP-1-102	GP210	6TM-D10
C26	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C27	.1	400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C28	4700	10%		DI-4700		PM6D47	CCD-472	JL-247	10TS-D47
C29	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C30	1500	1400V		HVD-15-1500	DD30-152	HVC16D15	3CCD-152	2HV-215	30GA-D15
C31	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C32	3.3	5%		NPO-SI 3.3	TCZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C33	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C34	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C35	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C36	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C37	4700	10%		DI-4700		PM6D47	CCD-472	JL-247	10TS-D47
C38	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C39	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C40	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C41	4700	10%		DI-4700		PM6D47	CCD-472	JL-247	10TS-D47
C42	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C43	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C44	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C45	.033	600V 10%		V84C6S33-10%		PM6S33	6DP-3-333	GEM-1613	6TM-S33
C46	.0047	400V		P488N-0047	D6-472	CUB6D47	6DP-1-472	GEM-6247	6TM-D47
C47	.047	400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C48	.1	400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C49	.047	400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C50	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C51	56	10%		1469-000056	TCZ-56	22R5Q56	CM-19B-560K	CNO-456	MS-456
C52	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C53	.0033	400V		P488N-0033	D6-332	CUB6D33	6DP-1-332	GEM-6233	6TM-D33
C54	.033	600V 10%		V84C6S33-10%		PM6S33	6DP-3-333	GEM-1613	6TM-S33
C55	4700	10%		DI-4700		PM6D47	CCD-472	JL-247	10TS-D47
C56	270	10%		1469-00027	TCZ-270	22R5T27	CM-19B-271K	CNO-327	MS-327
C57	1000			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C58	680	10%		1469-00068		5R5T68	CM-19B-681K	MCJ249	MS-368
C59	10000			BPD-01	DD-103	BYA10S1	CCD-102	B-110	5HK-S10
C60	.1	400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C61	10000			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C62	.1	600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10
C63	.006	600V 10%				PM6D6	6DP-1-602	GEM-1626	6TM-D60
C64	.033	600V 10%		V84C6S33-10%		PM6S33	6DP-3-333	GEM-1613	6TM-S33
C65	1500	1400V		HVD-15-1500	DD30-152	HVC16D15	3CCD-152	2HV-215	30GA-D15

CONTROLS

ITEM No.	RATING: RESISTANCE	RATING: WATTS	REPLACEMENT DATA: Setchell-Carlson PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	500K	½	816	B-60-S	A47-500K-Z	Q13-133	U48	Volume
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	
C	Switch			Not Req.	SWE-12	76-1	US-26	Power Off-On
R2	15K 5000Ω Tap	½	811	BT-154 *		Q13-118XX *		Contrast
R3A	100K	½	802	BX-40	A47-100K-S	B11-128	SU-41	Brightness
B	Shaft			Not Req.	FKS-1/4	SK6	Not Req.	
R4A	2.5meg	½	803	BX-83	A47-2.5meg-S	B11-239	SU-565	Vert. Hold
B	Shaft			Not Req.	FKS-1/4	SK6	Not Req.	
R5A	2.5meg	½	803	BX-83	A47-2.5meg-S	B11-239	SU-565	Horiz. Hold
B	Shaft			Not Req.	FKS-1/4	SK6	Not Req.	
R6A	2.5meg	½	803	BX-83	A47-2.5meg-S	B11-239	SU-565	Height (Height Bottom)
B	Shaft			Not Req.	FKS-1/4	SK6	Not Req.	
R7A	3000Ω	½	801	AB-8	A47-3000-S	B11-112	SU-8	Vert. Linearity (Height Top)
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	

* Use 5000Ω Tap.

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA: IRC PART No.	WORKMAN TV PART No.	REMARKS
R8	470Ω			
R9	180Ω			
R10	470Ω			
R11	220K			
R12	220K			
R13	4700Ω			
R14	180Ω			
R15	100K			
R16	120K			
R17	68Ω			
R18	180Ω			
R19	4700Ω			
R20	47K			
R21	180Ω			
R22	47K			
R23	3000Ω			
R24	22K			
R25	8000Ω 5W	PW5-8000	5W-SQ-8000	
R26	3900Ω			
R27	220K			
R28	220K			
R29	470K			
R30	150K			
R31	22K			
R32	18K 2W			
R33	180Ω			
R34	180Ω			
R35	22K			
R36	22K			
R37	470K			
R38	820Ω			
R39	150K			
R40	1meg			
R41	330Ω 1W			
R42	15K			
R43	1000Ω			
R44	2.2meg			
R45	22K			
R46	47K			

ITEM No.	RATING	REPLACEMENT DATA: IRC PART No.	WORKMAN TV PART No.	REMARKS
R47	2.2meg			
R48	4700Ω			
R49	8200Ω			
R50	470K			
R51	4700Ω			
R52	470K			
R53	1meg			
R54	8200Ω			
R55	4.7meg			
R56	1meg			
R57	33K 1W			
R58	470Ω			
R59	470Ω			
R60	470Ω			
R61	470K			
R62	470K			
R63	1meg			
R64	100K			
R65	100K			
R66	1500Ω			
R67	220K			
R68	2.2meg			
R69	120K			
R70	22K			
R71	22K			
R72	1meg			
R73	68Ω			
R74	68K			
R75	47K 2W			
R76	47K 2W			
R77	3900Ω			
R78	2.2Ω			
R79	3300Ω 1W			
R80	3Ω 5W	PW5-3	5W-SQ-3	
R81	2200Ω			
R82	3Ω 10W	PW10-3	10W-SQ-3	
R83	220K			
R84	120Ω			

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA: Setchell-Carlson PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	NOTES
L1	1st Video IF						
L2	41.25MC Trap		TV-131	6225	RTC-8556	T218	
L3	2nd Video IF						
L4	47.25MC Trap		TV-153	6225	RTC-8556	T218	
L5	3rd Video IF						
L6	RF Choke (12uh)		BC-566	4622	RTC-8523	T862	
L7	Peaking (225uh)		TV-165	6181	RTC-8598	T315	
L8	Peaking (225uh)		TV-165	6181	RTC-8598	T315	
L9	Peaking (300uh)		TV-199	6155	RTC-8587	T318	
L10	Peaking (400uh)		TV-202	6136	RTC-8579	T322	
L11	Sound IF		TV-151	1470	RTC-8603	T250	
L12	Ratio Detector		TV-115	6271	RTC-8620	T237	
L13	Fil. Choke (15uh)		BC-562	4604	RTC-8516	T856	

FILTER CHOKE

ITEM No.	RATINGS: CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 ∿)	REPLACEMENT DATA: Setchell-Carlson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
L14	.170A	30Ω	.75 Hy.	LM1222				C-36X	

TRANSFORMER (POWER)

ITEM No.	RATING: PRI.	SEC. 1	SEC. 2	REPLACEMENT DATA: Setchell-Carlson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
T1	117V @ 1.2A	110V @ .750A AC	8V @ 8.6A Tap @ 6.3V @ 8A	M1018A ET ①					① Alternate Part #TM1192

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA: Setchell-Carlson PART No.	Merit PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
T2	Vert. Output		A-2852 ①		VO-100 ①	26S13	A-142X	
T3	Yoke (Horiz. 21MH) (110°) (Vert. 35MH) Rear Cover and Centering Device			PCM-1834 ②③	DY-46A ③④	Y-53 ②③	Y-62 & NW20	
T4	Horiz. Output							

① Drill new mounting holes.
② Use original rear cover and centering device.
③ Use original yoke damping network if necessary.
④ Use original yoke plug. Connect yoke terminal #3 to yoke plug #3, yoke terminals #2 and #7 to yoke plug pin #4, yoke terminal #1 to yoke plug #5, yoke terminal #6 to yoke plug #6, yoke terminal #4 to yoke plug pin #1.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE: PRI.	SEC.	REPLACEMENT DATA: Setchell-Carlson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
T5	6500Ω	3-4Ω	S1028SC ①	A-2931	A-3878	24S52	S-49X	① Alternate Part #TM1028SC

SPEAKER

ITEM No.	TYPE: SIZE	FIELD	V. C. IMP.	REPLACEMENT DATA: Setchell-Carlson PART No.	GUAM PART No.	NOTES
SP1	5"	PM	3-4Ω	W110	5A15	

POWER RECTIFIERS

ITEM No.	RATING: CURRENT (Measured)	REPLACEMENT DATA: Setchell-Carlson PART No.	RCA PART No.	SARKES TARZIAN PART No.	SYLVANIA PART No.	NOTES
M1	.210A	*	1N1763 *	40H *	SR500 *	* Silicon
M2	.210A	*	1N1763 *	40H *	SR500 *	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA: Setchell-Carlson PART No. FUSE	HOLDER	LITTELFUSE PART No. FUSE	HOLDER	BUSS PART No. FUSE	HOLDER
M3	3AG	3A 250V			312003 (3AG 3A 250V)	342001	AGC 3	HKP
M4	1½"	length of #26 wire						

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA: Setchell-Carlson PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	NOTES
M5 M6	1N60		6GC1 *	1N60 ‡	1N60 ‡	* Dual Selenium (Common Cathode) ‡ Video Detector (Pigtail)

MISCELLANEOUS

ITEM No.	PART NAME	Setchell-Carlson PART No.	NOTES
M7	Tuner (VHF)	57-B-48	STANDARD COIL REPLACEMENT #GG-4290-A
M8	Antenna	30094-1	2 Used, JFD REPLACEMENT #TA375

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor