

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Turn the Horizontal Frequency (Hold) Coil Slug clockwise until the picture loses sync. Turn the Horizontal Hold counterclockwise until the pic-

ture just falls into sync. Interrupt the signal momentarily and see if picture remains in sync.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove all knobs and cabinet back held by 11 screws.
2. Remove tuner and control assembly held by 3 nuts.
3. Loosen antenna terminal board held by 2 screws.
4. Remove cable ties, and unplug picture tube socket, high voltage lead, and yoke plug.
5. Unsolder speaker leads, remove ground lead by power transformer, and remove 4 chassis bolts. Then remove chassis.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" instructions.
2. Remove 4 bottom bolts holding board and picture tube assembly.
3. Remove 2 upper brackets held by 4 screws and remove picture tube assembly.

SET 696 FOLDER 3

SONORA
MODEL S62K234

PHOTOFACT® Folder



SONORA
MODEL S62K234



MODEL S62K234

TRADE NAME	Sonora Model S62K234
SUPPLIER	Sonora Corp. of America, 130 Cedar Street, New York, New York
TYPE SET	Television Receiver
TUBES	Sixteen
POWER SUPPLY	110-120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
RATING	180 Watts, 1.8 Amp. @ 117 Volts AC

SERVICING IN THE FIELD

SAFETY GLASS

Remove 3 screws holding the trim strip at the top edge of the safety glass. Tilt glass out and remove.

FUSE OR FUSE DEVICE

A3/4 Amp. fuse is used for low voltage power supply protection. (See "Tube Placement Chart" for location.)

A 1" length of fuse wire is used for filament protection. (For location, see M1 in photo "Chassis - Bottom View".)

VHF OSCILLATOR ADJUSTMENT

Set fine tuning at the center of its range and adjust osc. 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

The Horizontal Frequency Slug is used for the horizontal hold. (See "Tube Placement Chart" for location.)

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.

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



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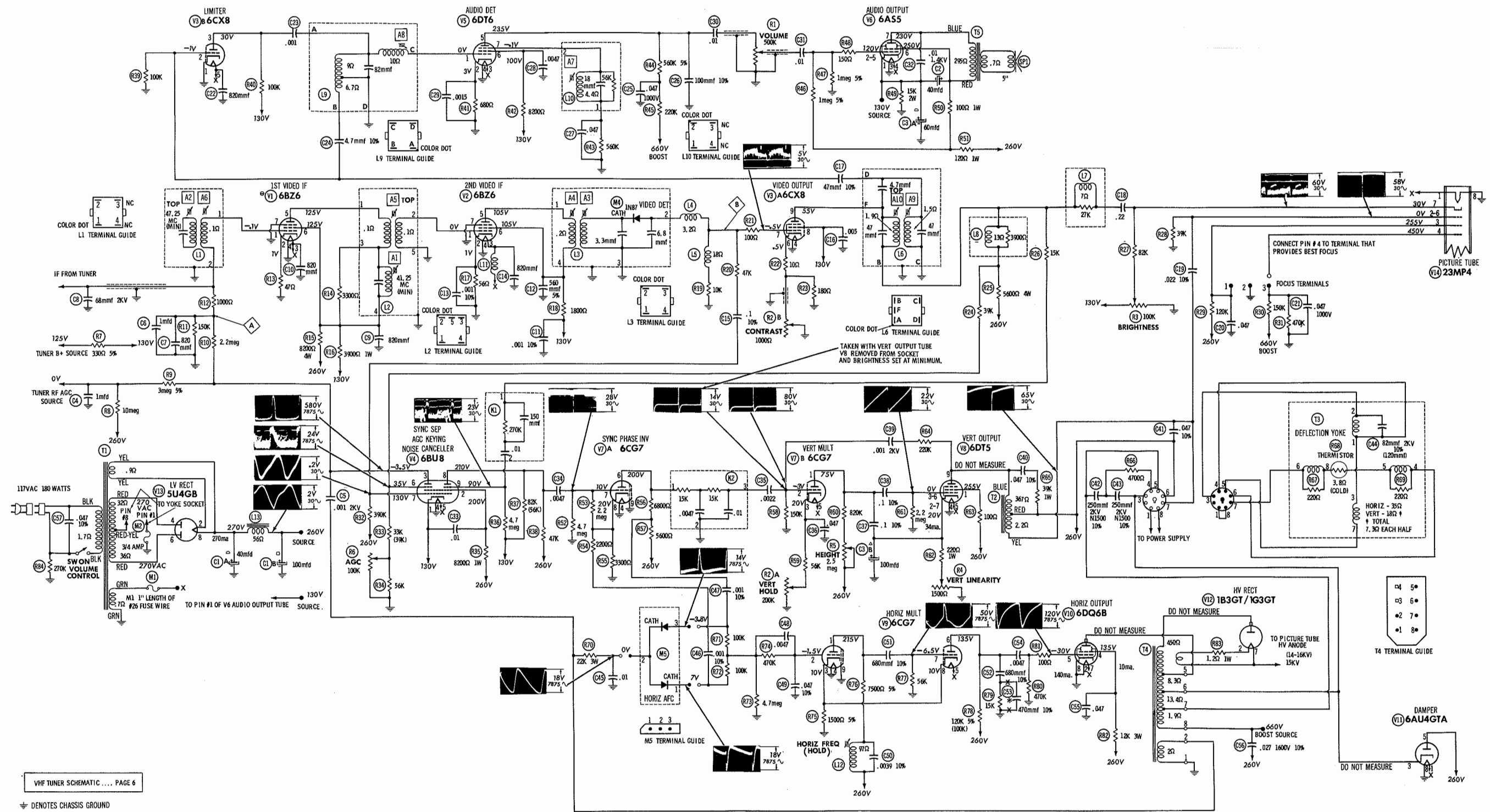
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DATE 5 -64

SET 696 FOLDER 3

SONORA
MODEL S62K234

SET 696 FOLDER 3



VHF TUNER SCHEMATIC... PAGE 6

- ⊕ DENOTES CHASSIS GROUND
 * NOT USED IN SOME VERSIONS
- See parts list for alternate value or application.
 - Voltage measurements taken with vacuum tube voltmeter.
 - All controls set for normal operation, no signal applied.
 - Measured values are from socket pin or terminal to common ground.
 - All terminals viewed from bottom unless otherwise designated.
 - Numbers assigned to terminals may not be found on the unit.
 - Supply voltage maintained at rated value for voltage readings.
 - Waveforms taken with controls set to produce 60 volts peak-to-peak signal at picture tube.

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SONORA
 MODEL 562K234

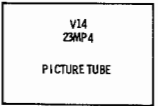
SONORA
 MODEL 562K234

FOLDER 3

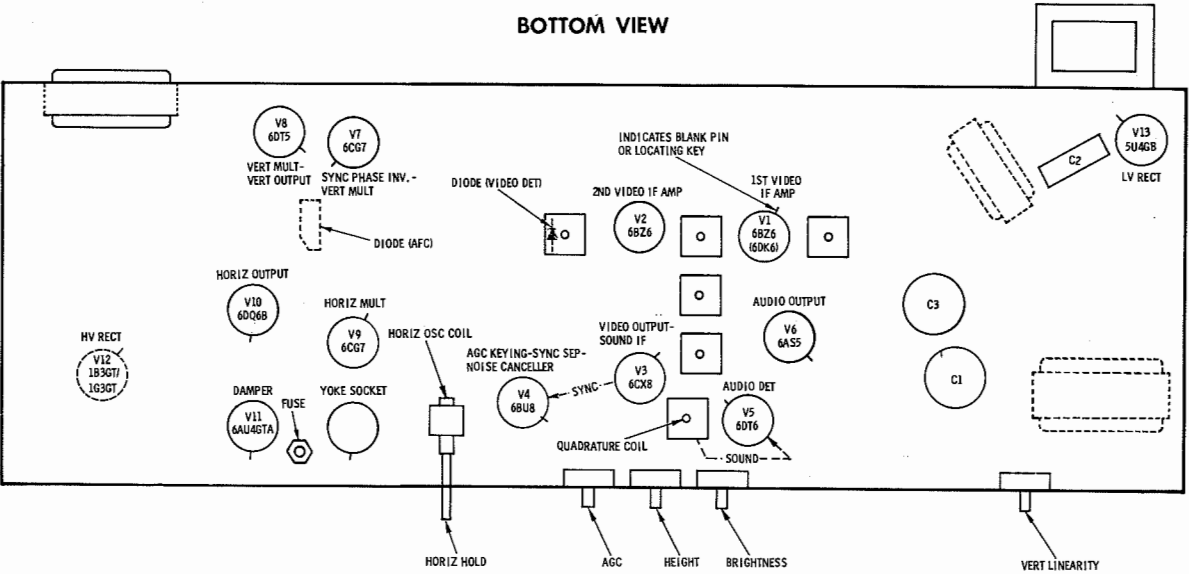
RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BZ6	151K	47Ω	FIL	FIL	▲ 3900Ω	▲ 3900Ω	0Ω		
V2	6BZ6	.1Ω	56Ω	FIL	FIL	▲ 1800Ω	▲ 1800Ω	0Ω		
V3	6CX8	0Ω	100K	▲ 100K	FIL	FIL	150Ω	10K	▲ 0Ω	† 5700Ω
V4	6BU8	▲ 0Ω	† 8200Ω	2.3meg	FIL	FIL	36K	† 390K	† 36K	▲ 4.7meg
V5	6DT6	19Ω	680Ω	FIL	FIL	† 780K	▲ 8200Ω	560K		
V6	6AS5	# 13K	NC	FIL	FIL	500K	† 276Ω	† 570Ω		
V7	6CG7	† 1.6meg	150K	150K	FIL	FIL	† 12.5K	1.6meg	3300Ω	0Ω
V8	6DT5	† 156Ω	NC	2.2meg	FIL	FIL	NC	650Ω	NC	† 425Ω
V9	6CG7	† 7600Ω	1.3meg	1500Ω	FIL	FIL	† 120K	56K	1500Ω	0Ω
V10	6DQ6B	NC	FIL	NC	† 12K	470K	TP	FIL	0Ω	TOP CAP † 8.3Ω
V11	6AU4GTB	NC	NC	710K	NC	† 56Ω	NC	FIL	FIL	
V12	183GT/ 1G3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 458Ω
V13	5U4GB	NC	# 100K	NC	32Ω	NC	36Ω	NC	# 100K	
V14	23MP4	FIL	39K	† 120K	† 150K	NC	NC	110K	FIL	
V201	6FS5	# 3.6meg	0Ω	FIL	FIL	▲ 330Ω	▲ 330Ω	0Ω		
V202	6FG7	15K	▲ 12K	0Ω	FIL	FIL	▲ 1350Ω	▲ 330Ω	0Ω	225K

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
† MEASURED FROM PIN 8 OF V13.
▲ MEASURED FROM PIN 1 OF V6.
NC NO CONNECTION TP TIE POINT

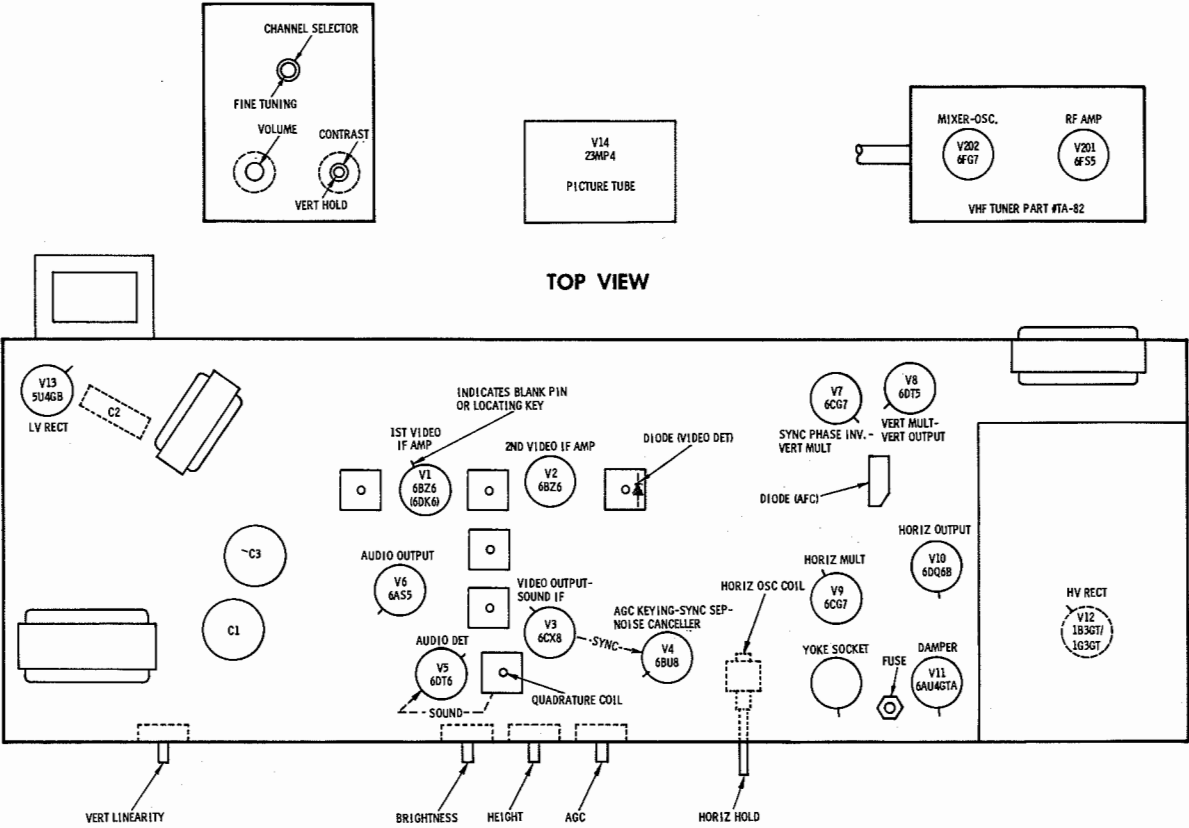


BOTTOM VIEW



TUBE PLACEMENT CHART

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 M1, M2, V13

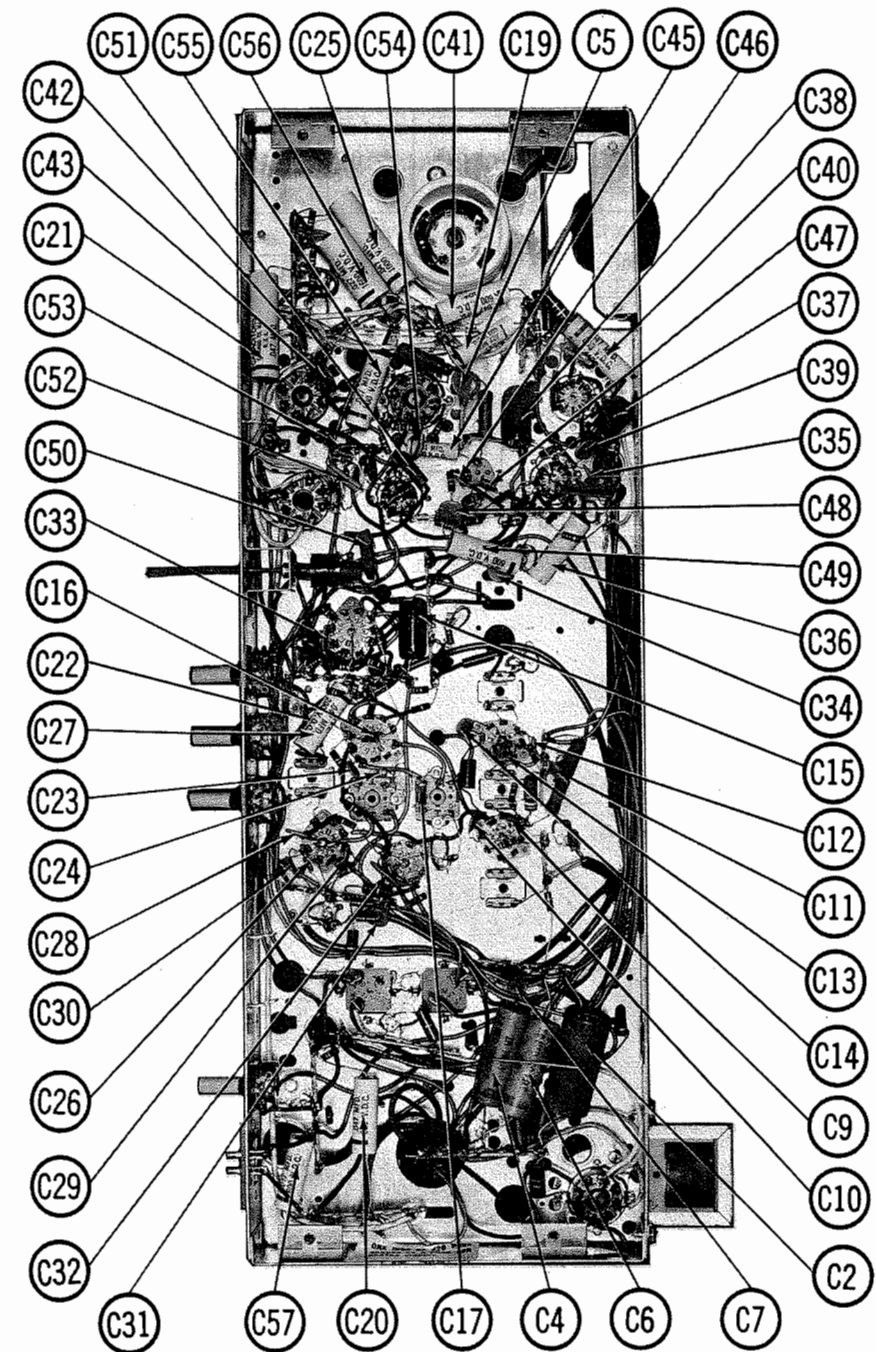
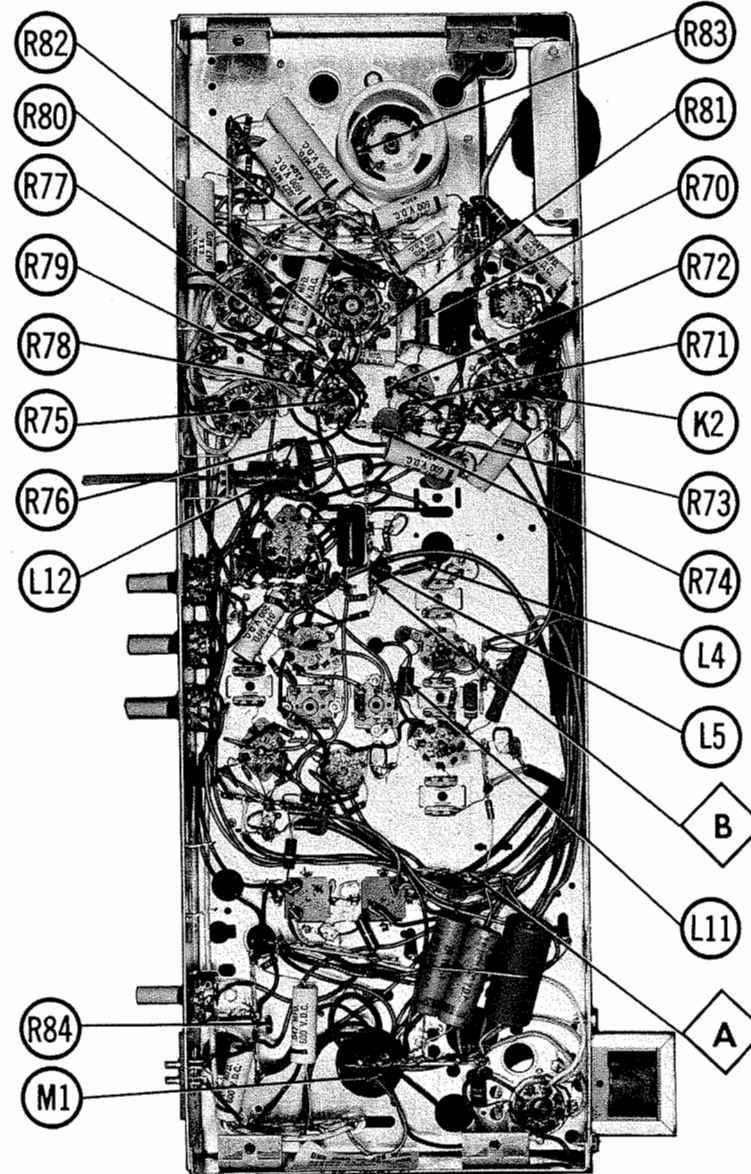
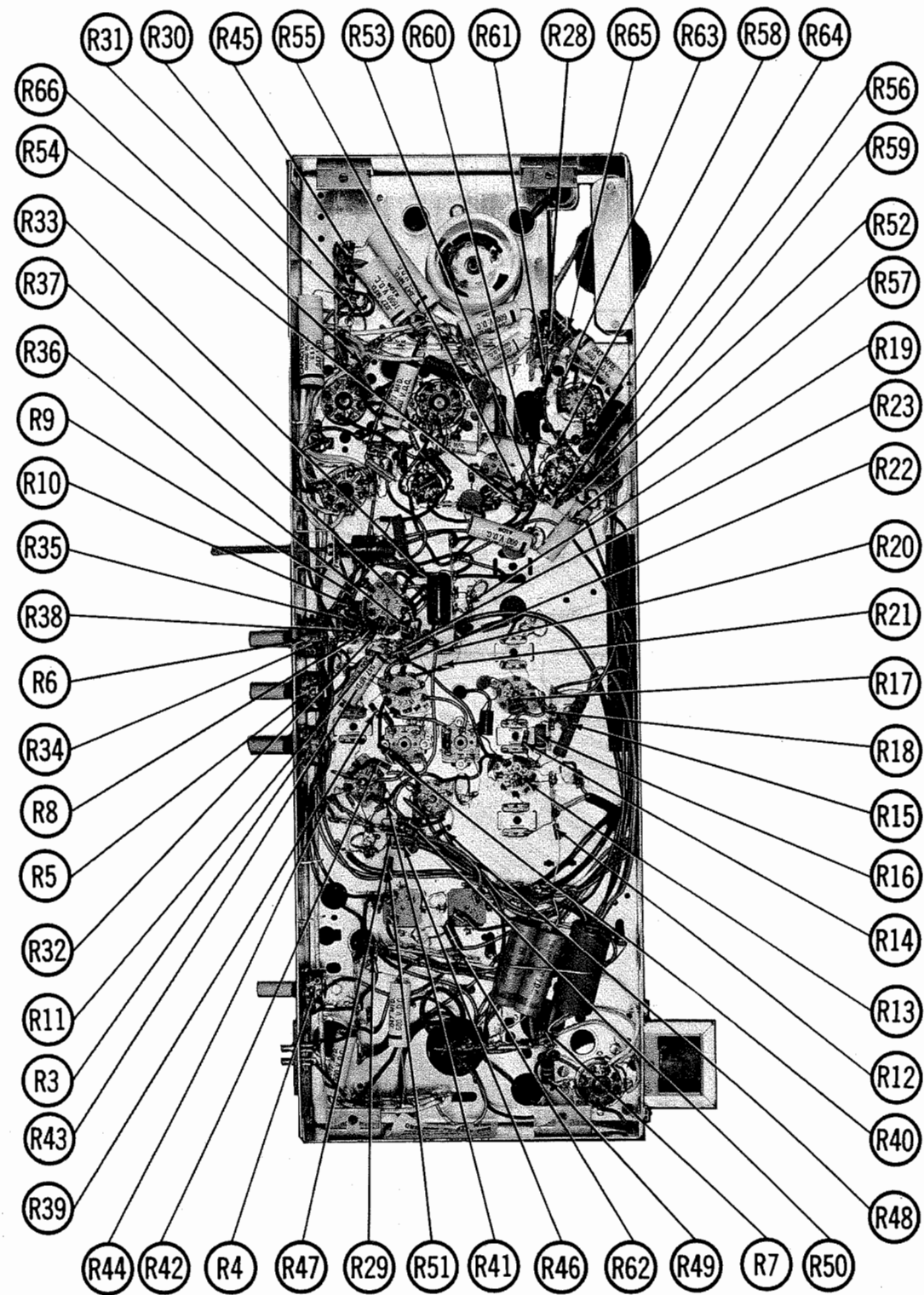
SWEEP FAILURE
No raster, has sound V9, V10, V11, V12, V14
No vertical deflection V7, V8
Poor vert. linearity or foldover V7, V8
Poor horiz. linearity or foldover V9, V10, V11
Narrow picture V9, V10, V11, V13
Vert. off freq. V7, V8
Horiz. off freq. M5 (Horiz. AFC Diode), V9

LOSS OF PICTURE OR SOUND
No pic, no sound, has raster V1, V2, M4 (Video Det.), V3
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V3, V14
Has pic, no sound V3, V5, V6
Overloaded picture V4

SYNC FAILURE
No vert. sync V4, V7
No horiz. sync V4, V7
No vert. or horiz. sync V4, V7

SONORA
MODEL S62K234

FOLDER 3



CHASSIS-BOTTOM VIEW

SONORA
MODEL 562K34

FOLDER 3

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.
Suggested Alignment Tools: A1 thru A10 and Mixer Plate Coll.....GENERAL CEMENT #8606, 8606L, 8869
WALSCO #2543, 2544, 2588

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: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (point Δ) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the 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 Δ . 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 vertical input of a scope to point Δ . Low side to ground.	Connect high side to pin 1 (grid) of V2. Low side to ground.	44MC (10MC Sweep)	41.25MC 45.75MC	A3 A4	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point Δ . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.75MC 44.0MC 45.6MC 47.25MC	A5, A6, Mixer Plate Coll	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A3 and A4.

4.5 MC 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.

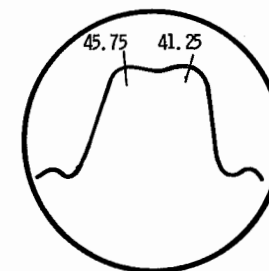


FIG. 1

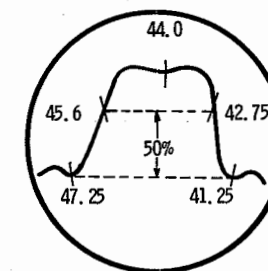
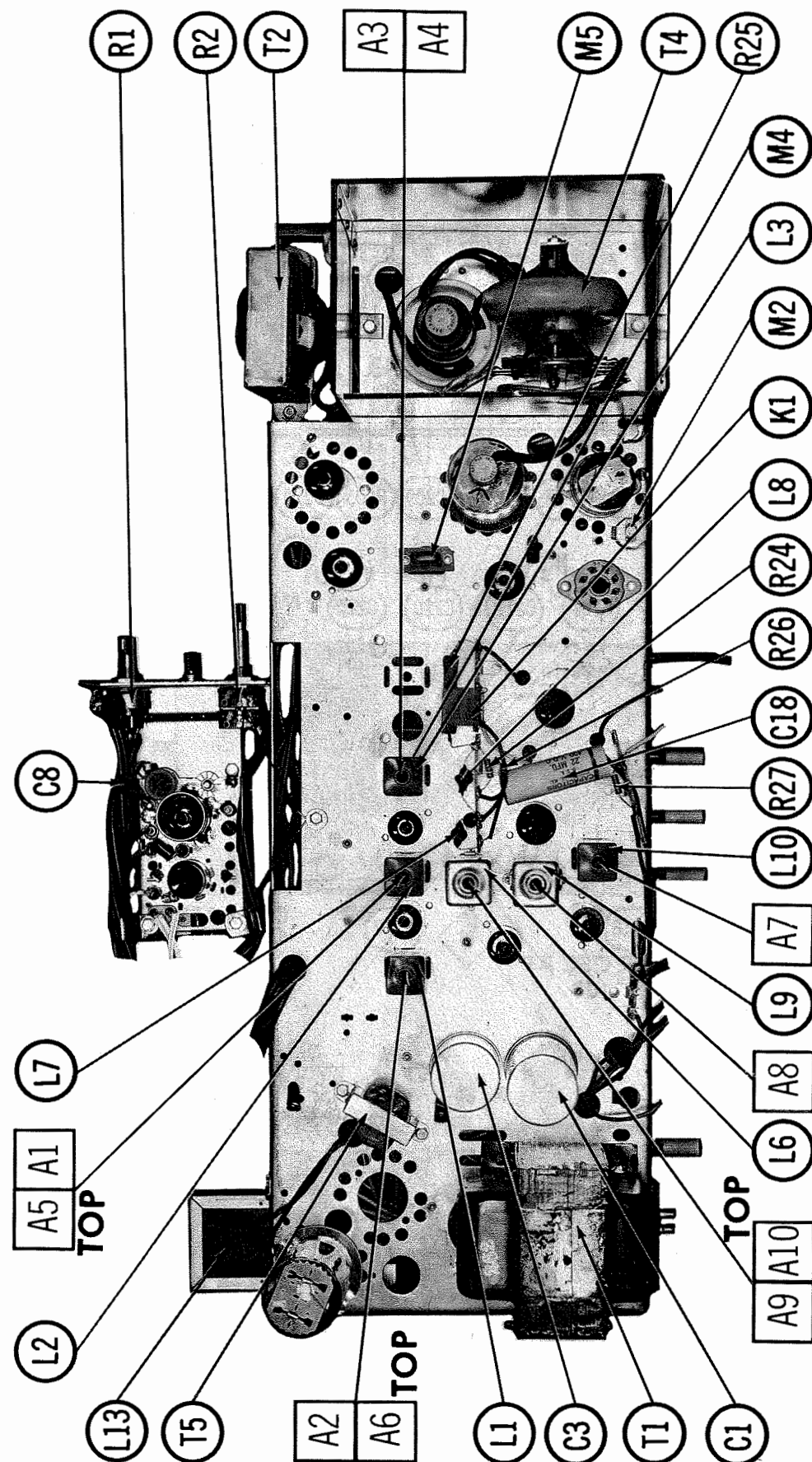


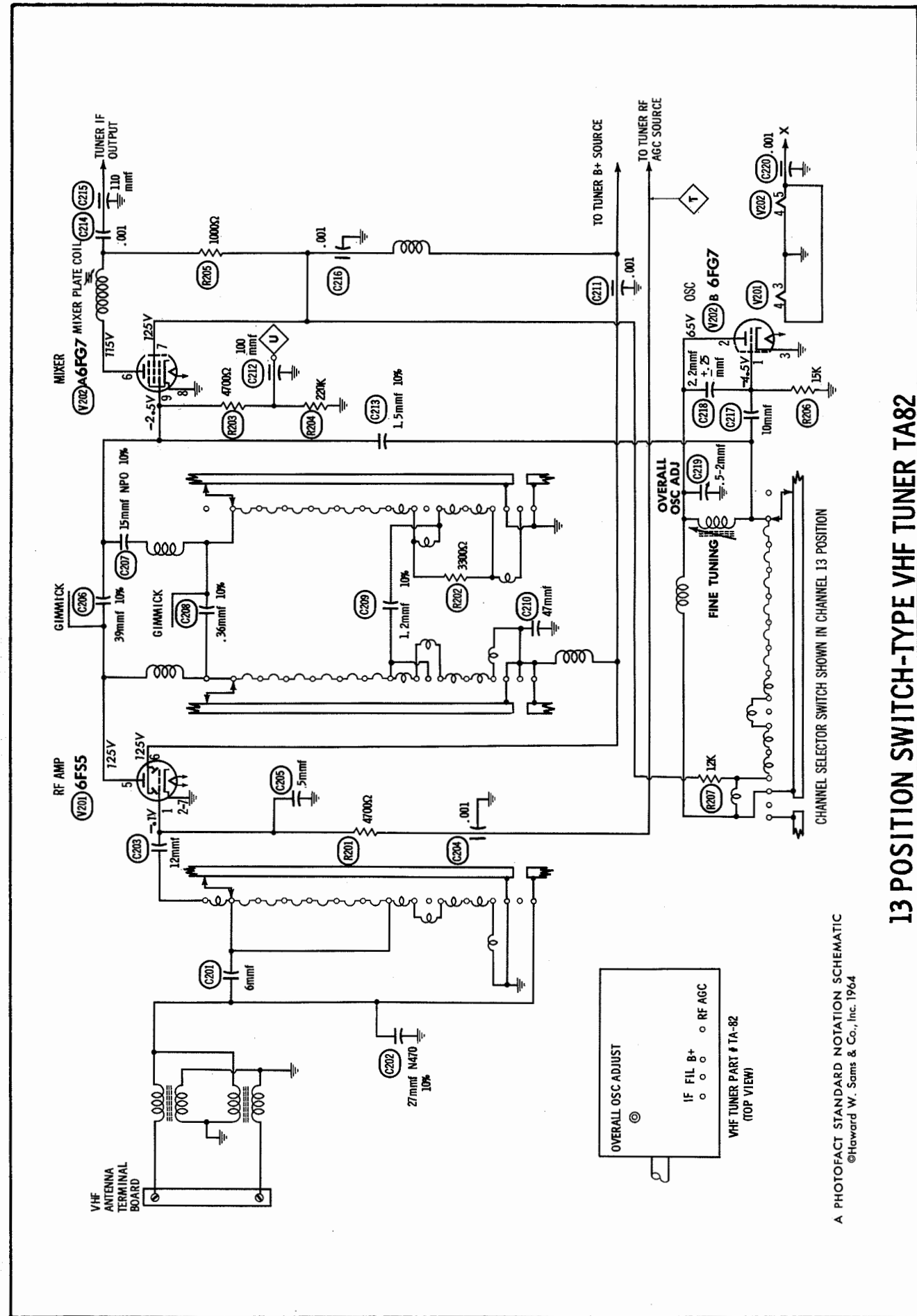
FIG. 2



CHASSIS-TOP VIEW

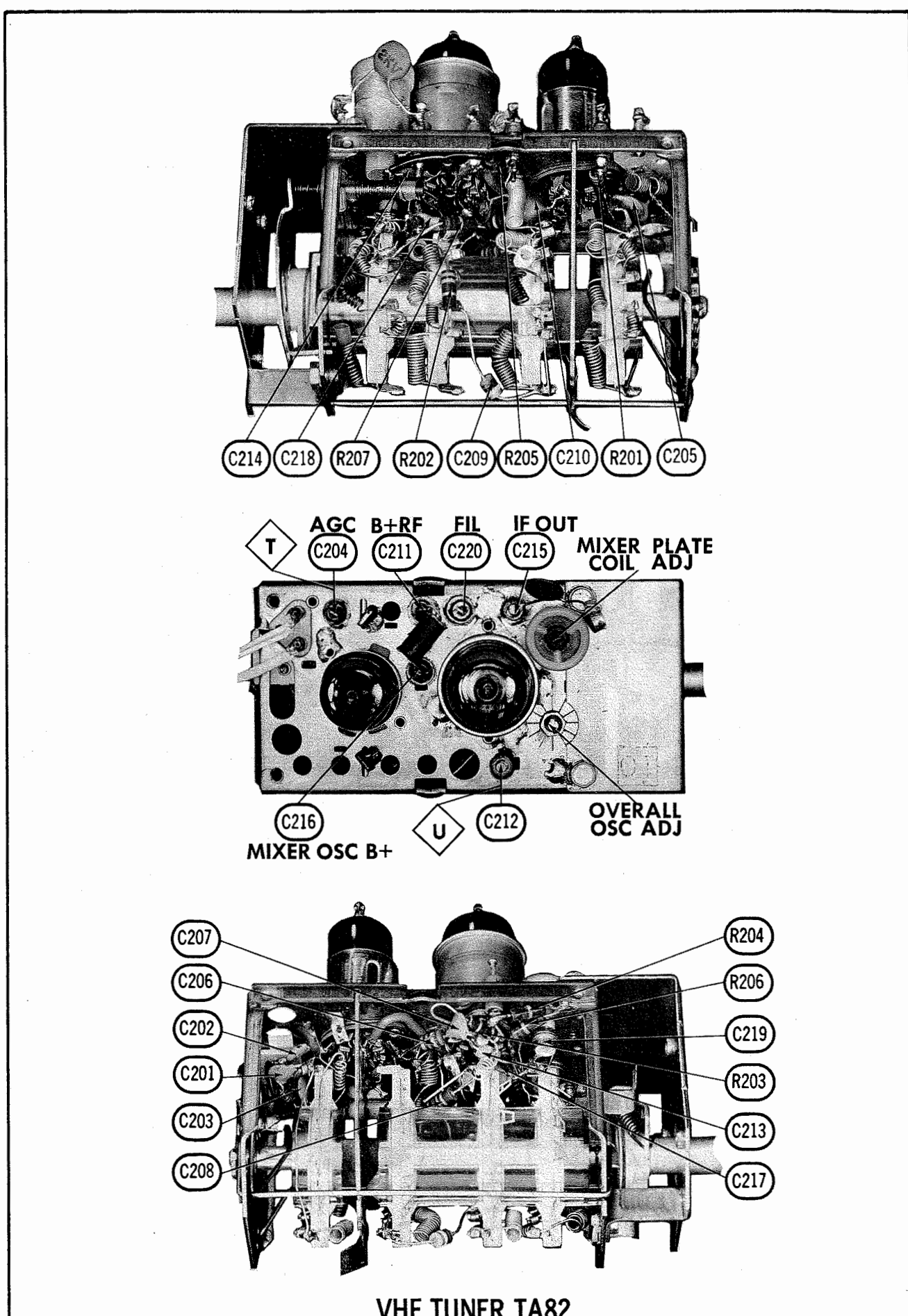
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FOLDER 3



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13 POSITION SWITCH-TYPE VHF TUNER TA82



VHF TUNER TA82

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VHF TUNER ALIGNMENT INSTRUCTIONS

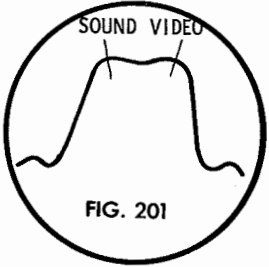
OSCILLATOR ALIGNMENT TUNER TA-82

Set the Fine Tuning at the center of its range. Starting with highest available channel, adjust overall oscillator adjustment for best picture and sound. Recheck all available channels and make compromise adjustment of overall oscillator 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 variable bias to RF AGC line at point . 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 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. input to point  , low side to ground.		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Figure 201 with markers as shown.
	207MC	205.25MC 209.75MC	12			
	201MC	199.25MC 203.75MC	11			
	195MC	193.25MC 197.75MC	10			
	189MC	187.25MC 191.75MC	9			
	183MC	181.25MC 185.75MC	8			
	177MC	175.25MC 179.75MC	7			
	85MC	83.25MC 87.75MC	6			
	79MC	77.25MC 81.75MC	5			
	69MC	67.25MC 71.75MC	4			
	63MC	61.25MC 65.75MC	3			
	57MC	55.25MC 59.75MC	2			



VHF TUNER PARTS LIST AND DESCRIPTION

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	6FS5	V202	Mixer - Osc.	6FG7

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.
C201	6						
C202	27 NPO 10%						
C203	12						
C204	.001		EF-001	TCZ-12			
C205	5		NPO-DI 5.0	MFT-1000	C10V47C	CCTO-120	CNO-412
C206	39 10%			DTZ-4R7		CCF-102	CT280A
C207	15 NPO 10%					CCTO-050	CNO-547
C208	.36mmf 10%						
C209	1.2 10%						
C210	47						
C211	.001		NPO-DI 47	DTZ-47	C10Q47C	CCTO-470	CNO-447
C212	100		EF-001	MFT-1000		CCF-102	CT280A
C213	1.5 10%		EF-6-100	MFT-100			
C214	.001						
C215	110		BPD-001	DD-102	BYA10D1	CCD-102	B-210
C216	.001						
C217	10		EF-001	MFT-1000		CCF-102	CT280A
C218	2.2 ±.25mmf		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410
C219	.5-2			TCZ-2R2			CNO-522
C220	.001		EF-001	829-3		CV-1	CT565
				MFT-1000		CCF-102	CT280A

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

PARTS LIST 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.

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	6B Z6 (8DK6) *	V7	Sync Phase Inverter -	
V2	2nd Video IF Amp.	6B Z6	V8	Vert. Mult. - Vert. Output	6CG7
V3	Video Output - Limiter	6CX8	V9	Vert. Mult. - Horiz. Output	6DT5
V4	AGC Keying - Sync Sep. -		V10	Horiz. Output	6DQ6B
V5	Noise Canceller	6BU8	V11	Damper	6AU4GT
V6	Audio Detector	6DT6	V12	RV Rectifier	1B3GT/1G3GT
	Audio Output	6AS5	V13	LV Rectifier	5U4GB

* Alternate

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	SONORA PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V14	23MP4	23MP4/MP4A/WP4 ①	23FP4A ①	23MP4 ②	① Aluminized ② Silver Screen "85"

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	SONORA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.
C1A	40	350	EC-115	AFH2-64-25	B0483	XC2-28	TMD-2700	FP247
B	100	350						
C2	40	200	EC-113	PRS1580	BR40-250	QT1-14	TD-40-250	TC58
C3A	60	200	EC-129	AFH2-80	B0606	XC2-36	TMD-2550	FP248
B	100	50						

FIXED 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.
C4	1mfd 100V		P288N-1.0		WMF1W1	1DP-5-105	PVC11	2TM-M1
C5	.001 2KV		HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	
C6	1mfd 100V		P288N-1.0		WMF1W1	1DP-5-105	PVC11	2TM-M1
C7	820		DI-820	DD-821	LA10T82-C4	CCD-821	B-382	10TS-T82
C8	68 2KV 10%						2DY-468	30GA-Q68
C9	820		DI-820	DD-821	LA10T82-C4	CCD-821	B-382	10TS-T82
C10	820		DI-820	DD-821	LA10T82-C4	CCD-821	B-382	20TS-T82
C11	.001 10%		DI-1000	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C12	560 5%							
C13	.001 10%		DI-1000	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C14	820		DI-820	DD-821	LA10T82-C4	CCD-102	B-382	10TS-T82
C15	.1 600V 10%		BE6P1		PM6P1	6DP-4-104	PVC601	6TM-P10
C16	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C17	47 10%			D6-470	LA10Q47-S3	CCD-470	GP447	10TS-Q47
C18	.22 400V		P488N-22		PM4P22	4DP-5-224	GEM-4022	4TM-P22
C19	.022 600V 10%		BE6S22		PM6S22	6DP-2-223	PVC6122	6TM-S22
C20	.047 600V		P688N-047	DD-503	PM6S47	6DP-3-473	GEM-6147	6TM-S47
C21	.047 1000V		P1088N-047	DD-503	PKM10S47	16DP-5-473	GEM-10147	10TM-S47
C22	820		DI-820	DD-821	LA10T82-C4	CCD-821	B-382	10TS-T82
C23	.001		DI-1000	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C24	4.7 10%							
C25	.047 1000V		BPD-0015	DD-152	LA10D15-C4	CCD-152	B-215	10TS-D15
C26	100 10%		DI-100	DD-101	LA10T1-S3	CCD-101	GP310	10TS-T10
C27	.047 200V		P288N-047	DD-503	PM2S47	4DP-3-473	GEM-2147	2TM-S47
C28	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C29	.0015		BPD-0015	DD-152	LA10D15-C4	CCD-152	B-215	10TS-D15
C30	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C31	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C32	.01 1.4KV		DAC-27	DD16-103	EVE16S1	16DP-3-103	UAC-110	BL-S10
C33	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C34	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C35	.0022		BPD-0022	DD-222	LA10D22-C4	CCD-222	B-222	10TS-D22
C36	.047 200V		P288N-047	DD-503	PM2S47	4DP-3-473	GEM-2147	2TM-S47
C37	.1 600V 10%		BE6P1		PM6P1	6DP-4-104	PVC601	6TM-P10
C38	.1 600V 10%		BE6P1		PM6P1	6DP-4-104	PVC601	6TM-P10
C39	.001 2KV		HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	
C40	.047 600V 10%		BE6S47		PKM6S47	6DP-3-473	PVC6147	6TM-S47
C41	.047 600V 10%		BE6S47		PKM6S47	6DP-3-473	PVC6147	6TM-S47
C42	250 2KV N1500 10%	#CC-169						
C43	250 2KV N1500 10%	#CC-169						
C44	82 2KV 10%	(120) †						
C45	.01 600V		P688N-01	D6-103	PM6S1	6DP-2-103	GEM-611	6TM-S10
C46	.001 10%		DI-1000	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C47	.001 10%		DI-1000	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C48	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C49	.047 600V 10%		BE6S47		PKM6S47	6DP-3-473	PVC6147	6TM-S47
C50	.0039 10%		1464-0039	CPR-3900J	1DR5D39J	CM-30B-392K	MCJ462.5	MS-239
C51	680 10%		1464-00068	CPR-680J	5R5T68K	CM-20B-682K	MCB248	MS-368
C52	680 10%		1464-00068	CPR-680J	5R5T68K	CM-20B-681K	MCB248	MS-368
C53	470 10%		DI-470	DD-471	JB6T47	CCD-471	GP347	10TS-T47
C54	.0047	Note 1	BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C55	.047 600V		P688N-047	DD-503	PM6S47	6DP-3-473	GEM-6147	6TM-S47
C56	.027 1600V 10%				DPM516S25	16DP-5-253	GEM-1613	MB-S3
C57	.047 600V 10%		BE6S47		PKM6S47	6DP-3-473	PVC6147	6TM-S47

Sonora Part Number

† Alternate Value

Note 1. Not used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

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.

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			SONORA PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	500K	VC-263	F2-500K, SPU304, KR-8 or (BPL-60)	C47-500K-Z KSS-3	B13-133, SK7 or (PPQ13-133, SK7) or (BU2, CE25, SS10, K) * †	PP55A
R2A	Vert. Hold Contrast	200K 1000Ω	VC-259	F1-200K, R1-1000, FFS102, RFS110	P-200K-S R-1000-S	B11-128, TM4 or (BU11, CF13, SS8) *	† UE4393
R3	Brightness	100K	VC-84	TT-40 or (F1-100K, SN010)	B47-100K-S	B11-128, TM4 or (BU11, CF13, SS8) *	PTA15L or (RU15L, SL37, SN1000) or (UA15L, SN1000)
R4	Vert. Linearity	1500Ω	VC-85A	TT-511 or (F1-1500, SN010)	B47-1500-S	B11-109, TM4 or (BU11, CF7, SS8) *	PTA152L or (RU152L, SL37, SN1000) or (UA152L, SN1000)
R5	Height	2.5meg	VC-78	TT-83 or (F1-2.5meg, SN010)	B47-2.5meg-S	B11-239, TM4 or (BU11, CF20, SS8) *	SU-565 or (RU255L, SL37, SN1000) or (UA255L, SN1000)
R6	AGC	100K	VC-84	TT-40 or (F1-100K, SN010)	B47-100K-S	B11-128, TM4 or (BU11, CF13, SS8) *	PTA15L or (RU15L, SL37, SN1000) or (UA15L, SN1000)

† "CONCENTRIKIT" Equivalent: K-6 Kit with Base Elements and Shafts: B11-129, P17-105 (Panel), "SNAPTROL" Equivalent: BU5, CF14, SF8, CR2, SR8, DC1. B11-108, R18-118 (Rear).
‡ "STA-LOC" Equivalent: FA25L, RU13L, OF1125, IS1625. * "SNAPTROL"

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	SONORA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC ① 1.8A	540VCT ② .27A DC	6.3VAC ③ 9A	TR-52A	P-2882 & BR263 Brackets	P-8355 ①	26R122 ①	R-75BA ①	① Drill new mounting hole(s).
	SEC. 3 5VAC ② 2A	SEC. 4	SEC. 5						

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SONORA PART No.	REPLACEMENT DATA
K1	Sync Takeoff	270K, 150mmf, .01mfd	CC-168	Aerovox PA-429 Centralab PC-184
K2	Vertical Integrator	15K, 15K, .0047mfd, .01mfd	CC-120	Sprague ST-13 Aerovox PA-749 Centralab PC-392

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			SONORA PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1 M2	1" length of #26 fuse wire N 3/4 S/B	3/4 A 125 Volt	F13	F14	333.750 (3/4A, 125V, S/B)	346010	N 3/4	HN 1/2 to 3/4

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R15 R25 R68	8200Ω 4W 5600Ω 4W 3.8Ω (Cold) Thermistor		4G-8200 4G-5600	#IR-283 #IR-273	R70 R82	22K 3W 12K 3W		3G-22K 3G-12K	#IR-276 #IR-275

Sonora Part Number

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		SONORA PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	1st Video IF - 47.25MC Trap	L-179	TV-129	6233 ▲	RTC-8561 ▲	T210 ▲	▲ Disregard Secondary.
L2	2nd Video IF	L-103	TV-127	6232	RTC-8559	TM220	
L3	3rd Video IF	L-152	TV-252	7517		T276	
L4	RF Choke (17uh)	L-133	TV-192	72F185AP	RTC-8584	T989	■ Use adapter plate.
L5	Peaking (805uh)	L-128	TV-207	6156	RTC-8588	T328	Add 4.7mmf capacitor externally.
L6	Sound Takeoff - 4.5MC Trap	L-154	TV-41	7123	RTC-8545 ■	T235 ■	① Wound on 27K resistor.
L7	Peaking (161uh)	L-126 ①	TV-196 †	6120 †	RTC-8575 †	TA308 †	† Shunt with 27K resistor
L8	Peaking (385uh)	L-127 ②	TV-201 *	72F394AP*	RTC-8578 *	T321	② Wound on 3.9K resistor
L9	Sound IF Interstage	L-167	TV-167	T122		TA232	* Shunt with 3.9K resist.
L10	Quadrature	L-110B	TV-154 ▲	1481 ▲	RTC-8606 ▲	T248 ▲	▲ Shunt with 56K resistor
L11	Flt. Choke (17 turns)	L-164					

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		SONORA PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	Workman PART No.	
L12	Horiz. Stab. (Hold)	L-156	TV-163 ① ③	6210 ① ③	RTC-8629 ① ③	HS-5 ③	WLC-25 ② ③	T103 ③	

① Enlarge mounting hole. ② Disregard Tap. ③ Install plastic sleeve on adjustment screw.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	SONORA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L13	.235ADC	56Ω	.8 Hy.	FC-18	C-4115	C-2343	28C76	C-24X	

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		SONORA PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2 T3	Vert. Output Yoke (Horiz. 20MH) 114° (Vert. 15MH)	TR-50A L-174B	A-2986 MDF-130	VO-115 DY-27A ①	26S07 Y-52 ①	A-140X Y-60-1 ②	① Use original yoke damping network if necessary. ② Remove jumper between terminals 5 & 8 and remove 27mmf cap.
T4	Horiz. Output	TR-51 (TV-TR-51)	HVO-152	HO-304	FLY-137	D-151R	

* COMPONENT CONNECTION DATA

ORIGINAL →	HV TRANSFORMER				VERTICAL OUTPUT				YOKE				YOKE PLUG							
REPLACEMENT ↓	Original Connections				Original Connections				Original Connections				1	2	3	4	5	6	7	8
	1	2	5	6	7	8			Blue	Red	Yel.		2	1	3	7	6	8	5	4
MERIT	1	2	5	6	7	8			Green	Red	Yel.		5	4	6	8	10	3	1	2
STANCOR	1	2	5	6	7	8			Green	Red	Yel.		2	1	3	7	6	8	5	4
THORDARSON	1	2	5	6	7	8			Green	Red	Yel.		2	1	3	7	6	8	5	4
TRIAD	1	2	5	6	7	8			Green	Red	Yel.		2	1	3	7	6	8	5	4

† No wiring change necessary, except connect a jumper between yoke plug pins #1 and #8.
‡ Jumper yoke plug pins #1 and #8.

MISCELLANEOUS

ITEM No.	PART NAME	SONORA PART No.	NOTES
M3 M4 M5	VHF Tuner Diode Diode	TA-82 1N67 SR-15	Video Detector Horiz. AFC (Dual)

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM		PART No.	ITEM		PART No.
Safety Glass		DW-103	Knob, On/Off-Volume (Mahogany)		K-616
Mask		MP-211	Knob, Vert. Hold (Mahogany)		K-617
Knob, VHF Channel Selector (Black)		K-555	Knob, Contrast (Mahogany)		K-618
Knob, Fine Tuning		K-350			

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
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 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
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 8486 (Round) - 8 Conductor