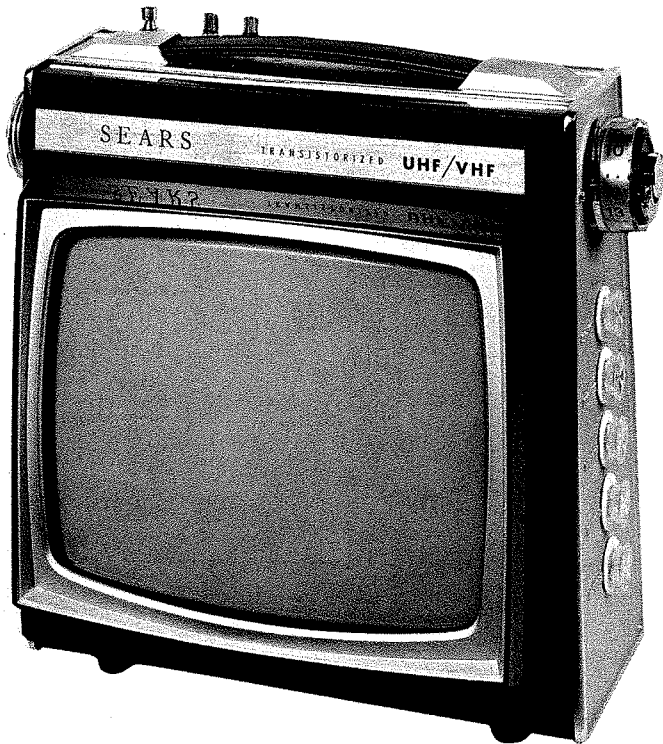


PHOTOFACT® Folder

with CIRCUITRACE™

SEARS MODEL 5100
(Ch. 564.10000 thru 564.10008)



MODEL 5100

TRADE NAME	Sears Model 5100, Chassis 564.10000 thru 564.10008
SUPPLIER	For current address, see Master Index.
TYPE SET	Television Receiver
TUBES	Four
TRANSISTORS	Twenty-Seven
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 : 22 Watts, .2 Amp. @ 117 Volts AC

SERVICING IN THE FIELD

SAFETY GLASS

For picture tube and safety glass cleaning, see "Disassembly Instructions".

FUSE OR FUSE DEVICE

A 1.2 Amp. and .5 Amp. fuses are used for battery pack protection.

A 5 Amp. fuse is used for AC protection and a .5 Amp. fuse is used for low voltage B+ protection. (See "Cabinet-Rear View" for location.)

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 AGC and AGC Bias controls.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

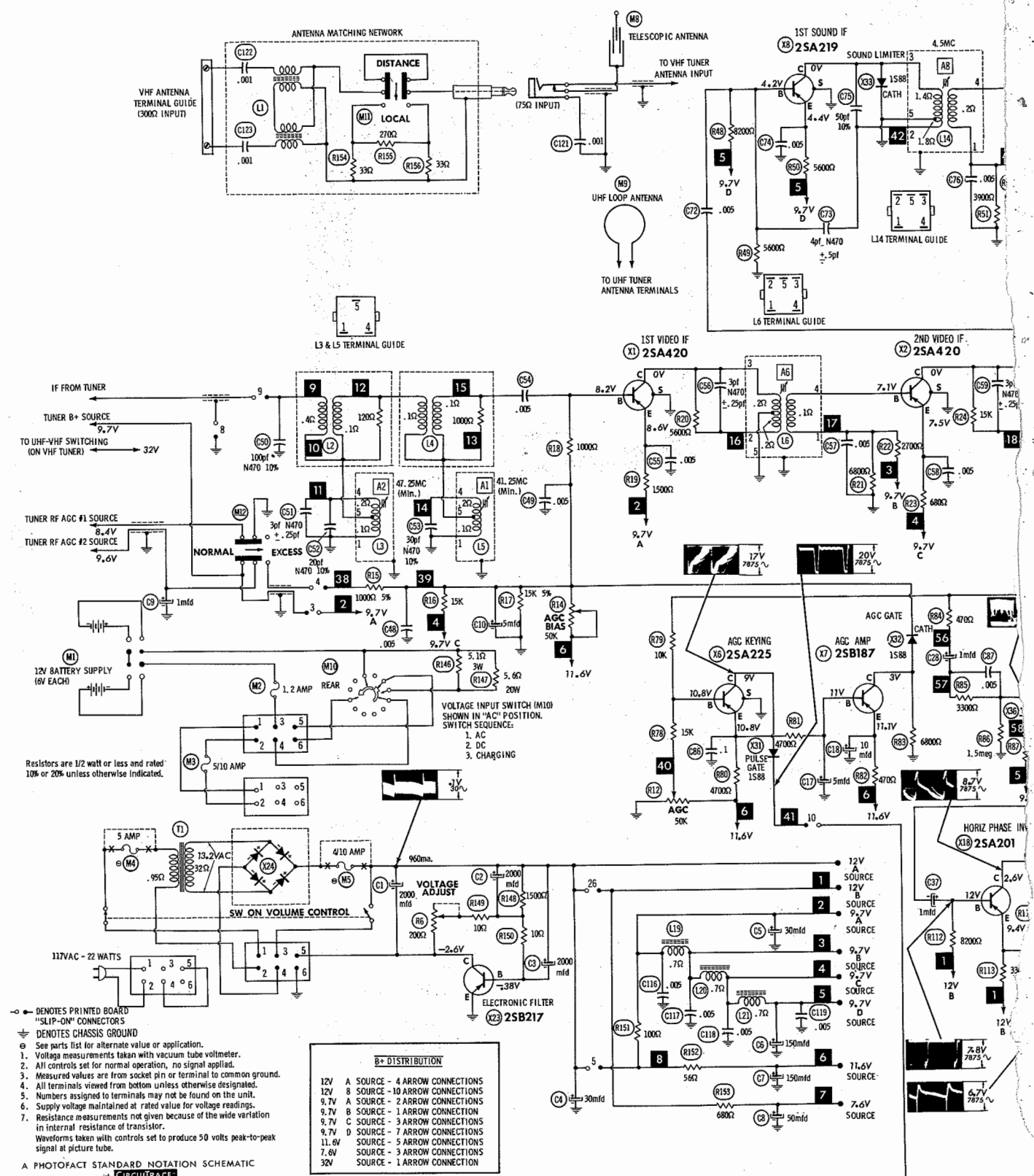
Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horizontal Range Control and Horizontal Stabilizer Coll.

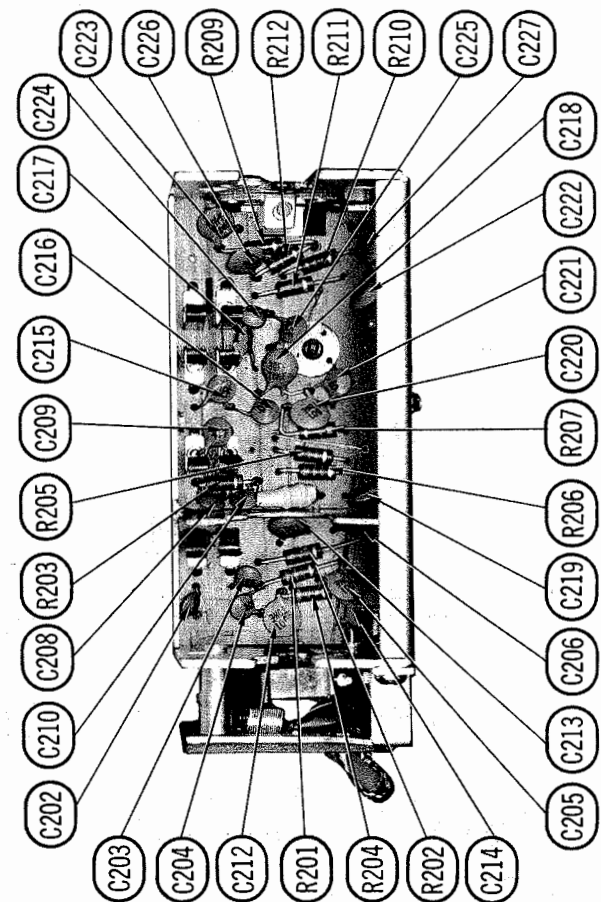
SEARS MODEL 5100
(Ch. 564.10000 thru 564.10008)

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

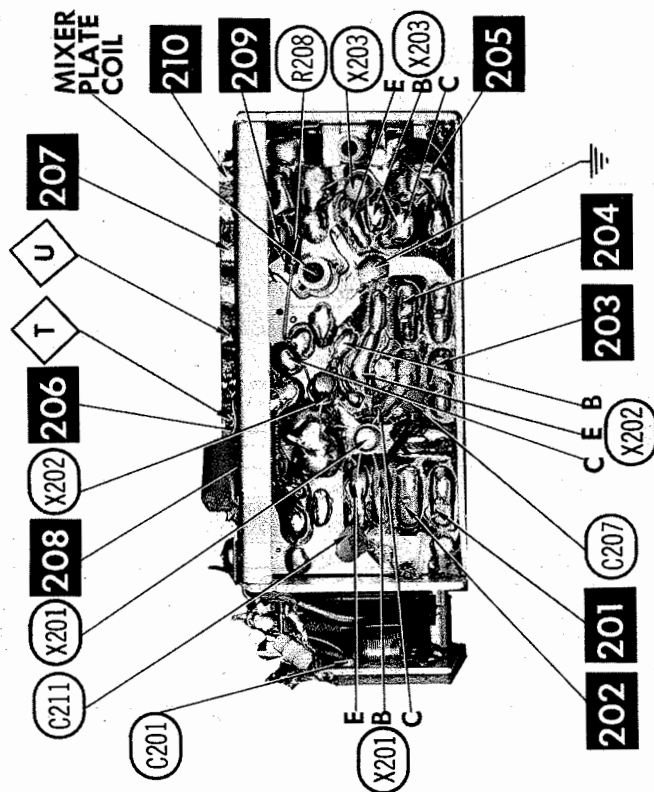
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NC420

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VHF TUNER T-T256US
(Ch. 564.10000 thru 564.10008)



FOLDER 4

DISASSEMBLY INSTRUCTIONS

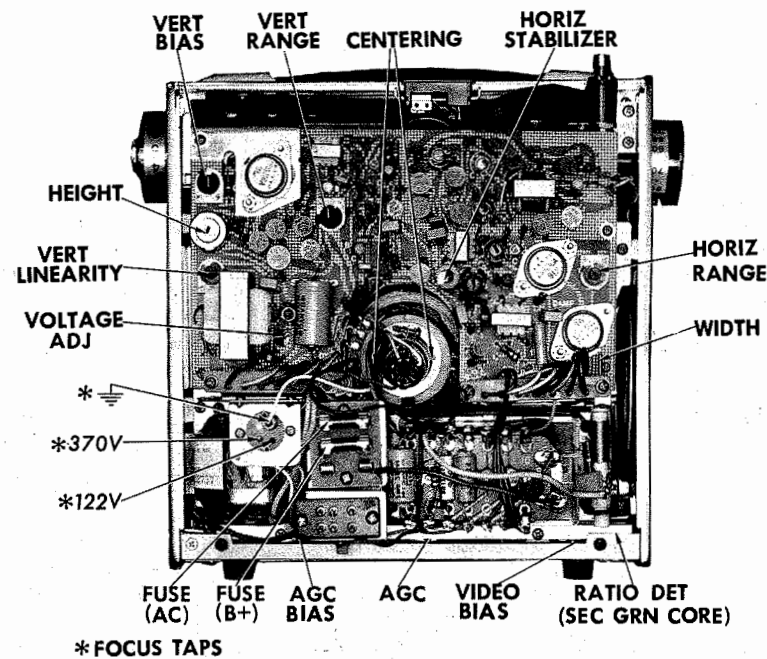
CHASSIS REMOVAL

1. Remove rear cover and loosen 2 Phillips screws from bottom of picture tube mask.
2. Remove cabinet which includes tube mask.

Note: Further disassembly of printed circuit boards may be necessary to reach some components.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" instructions, and disconnect picture tube socket; also disconnect yoke clamp.
2. Remove screw from clamp on picture tube mounting band.
3. Remove picture tube far enough to disconnect high voltage anode lead.
4. Remove picture tube.



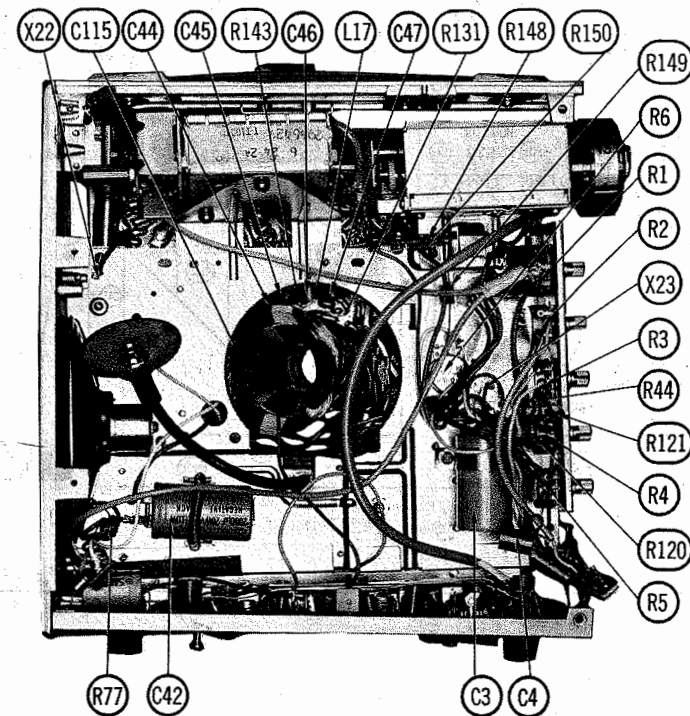
CABINET-REAR VIEW

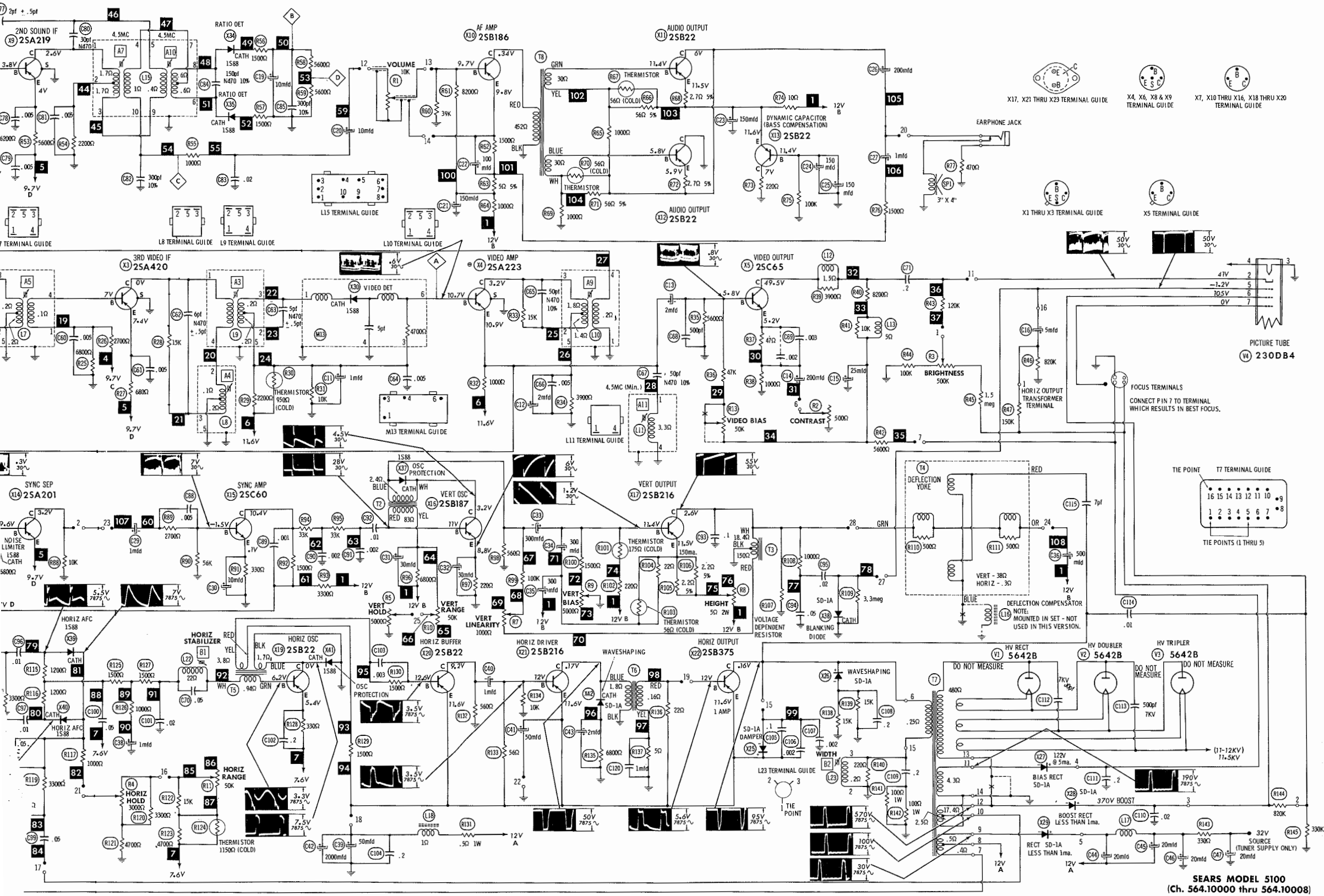
HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

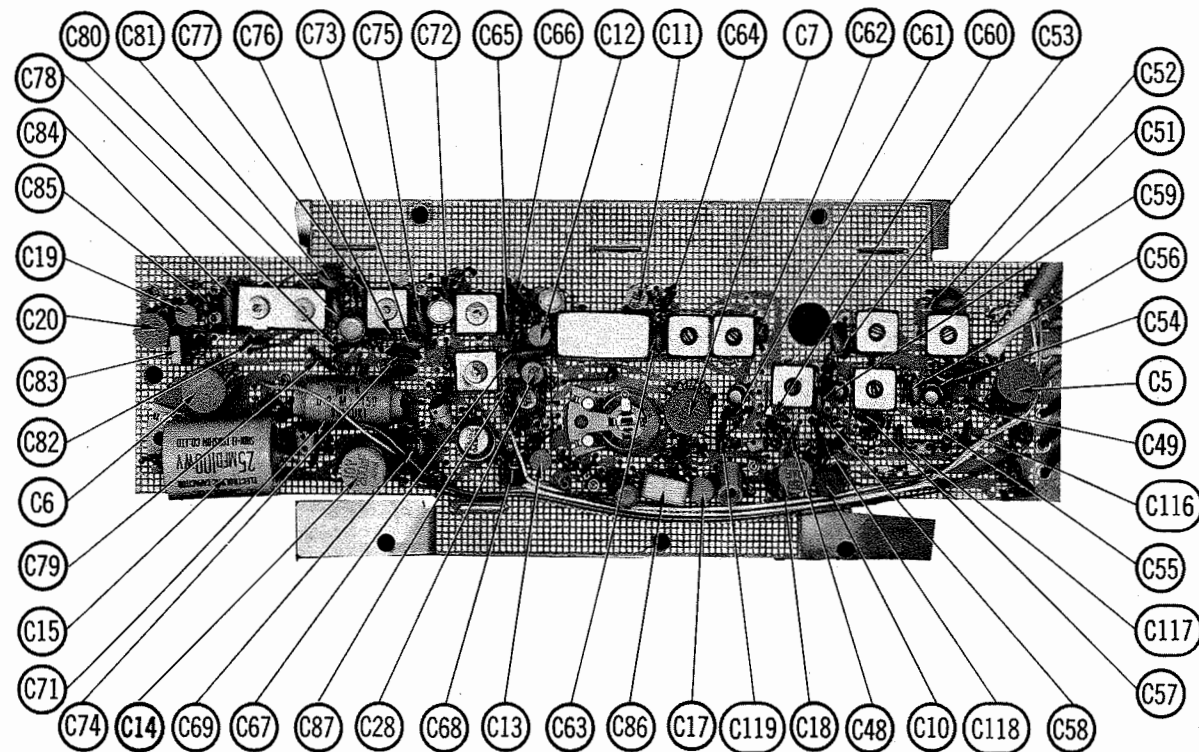
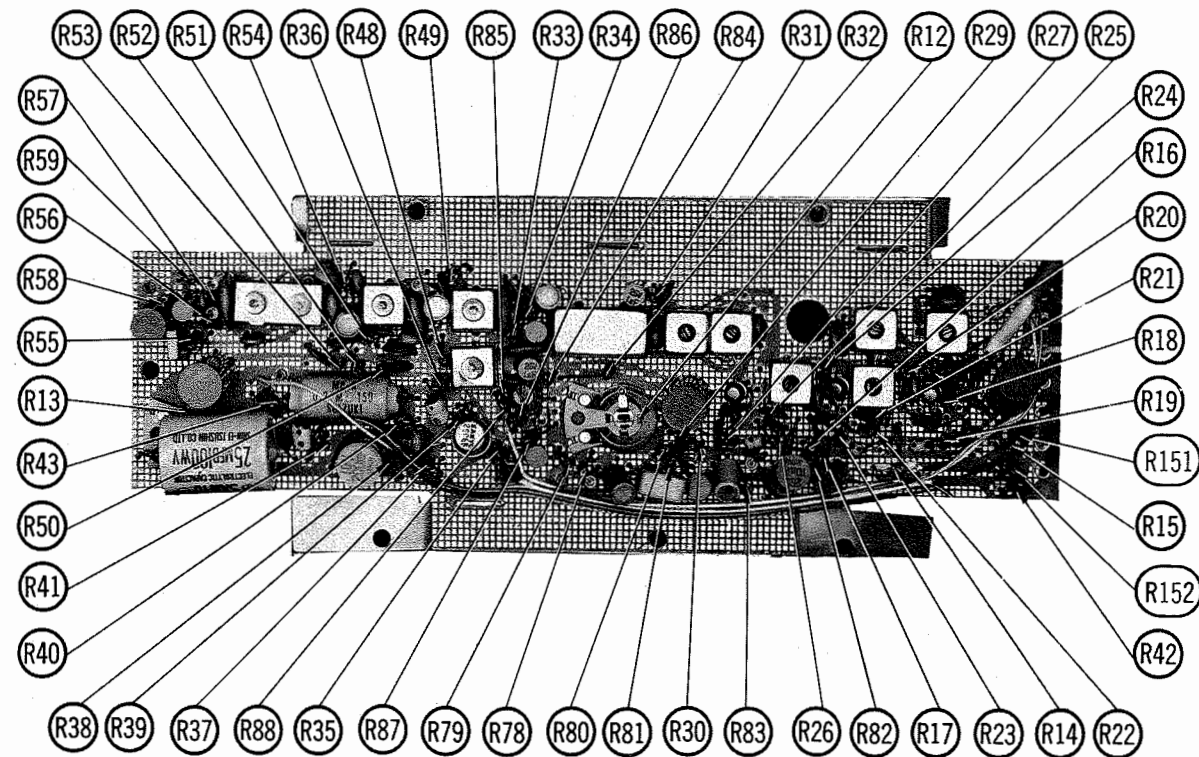
Tune to a TV station and set all controls for normal operation. Connect a clip lead across the Horizontal Stabilizer Coil, L22. Set the Horizontal Range Control to the center of its range. Adjust the Horizontal Range Control, R11, until the picture is in Horizontal sync or tends to float slowly across the screen. Remove the clip lead from the Hori-

zontal Stabilizer Coil and adjust B1 until the picture is in horizontal sync.

Adjust the Horizontal Width Coil slug, B2, until the picture is just wider than necessary to fill the screen.

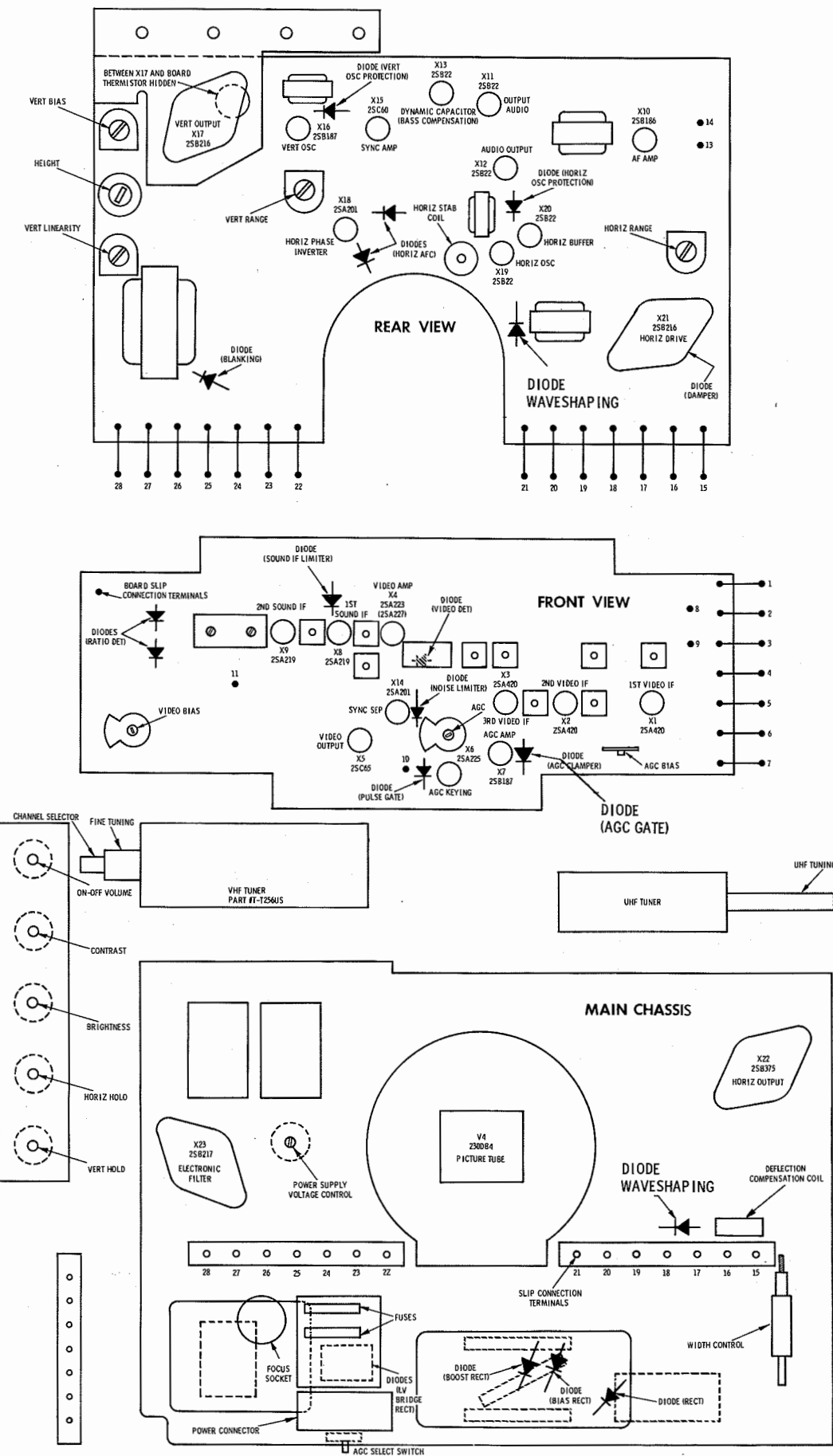
CHASSIS
REAR VIEW

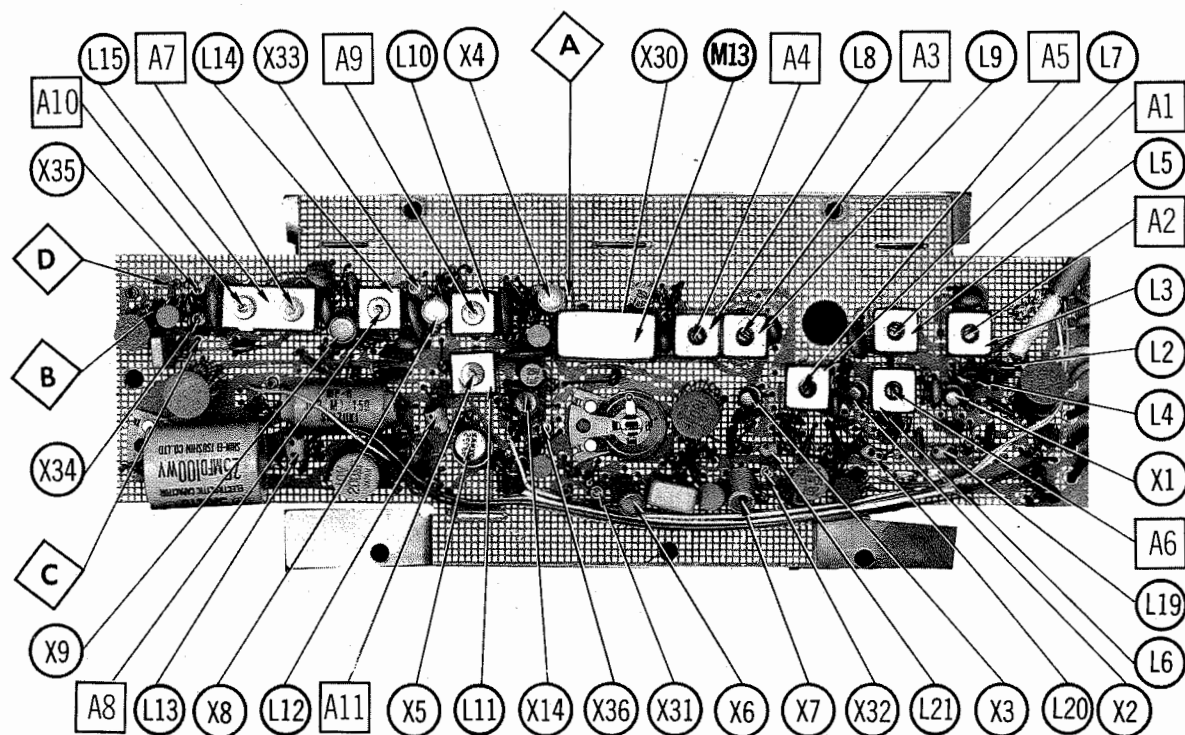




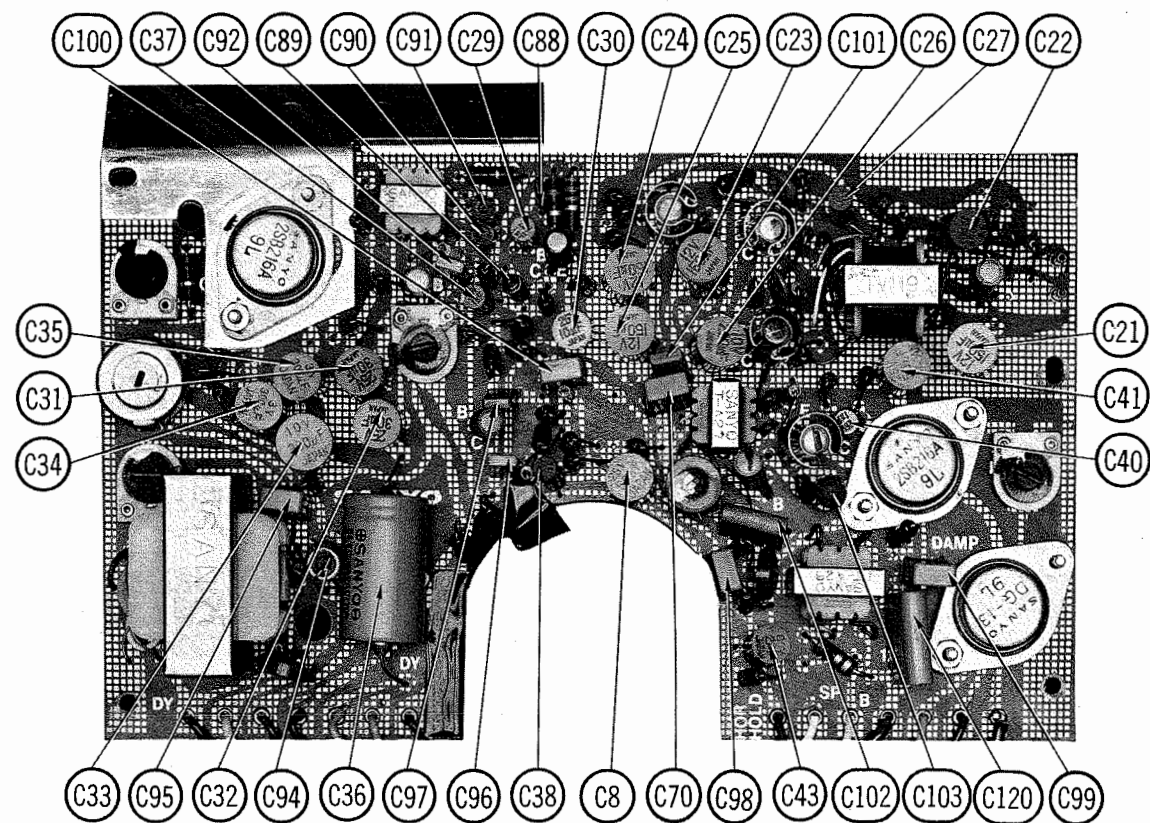
VIDE, SOUND, AGC, SYNC SEP PRINTED BOARD

TRANSISTOR PLACEMENT CHART

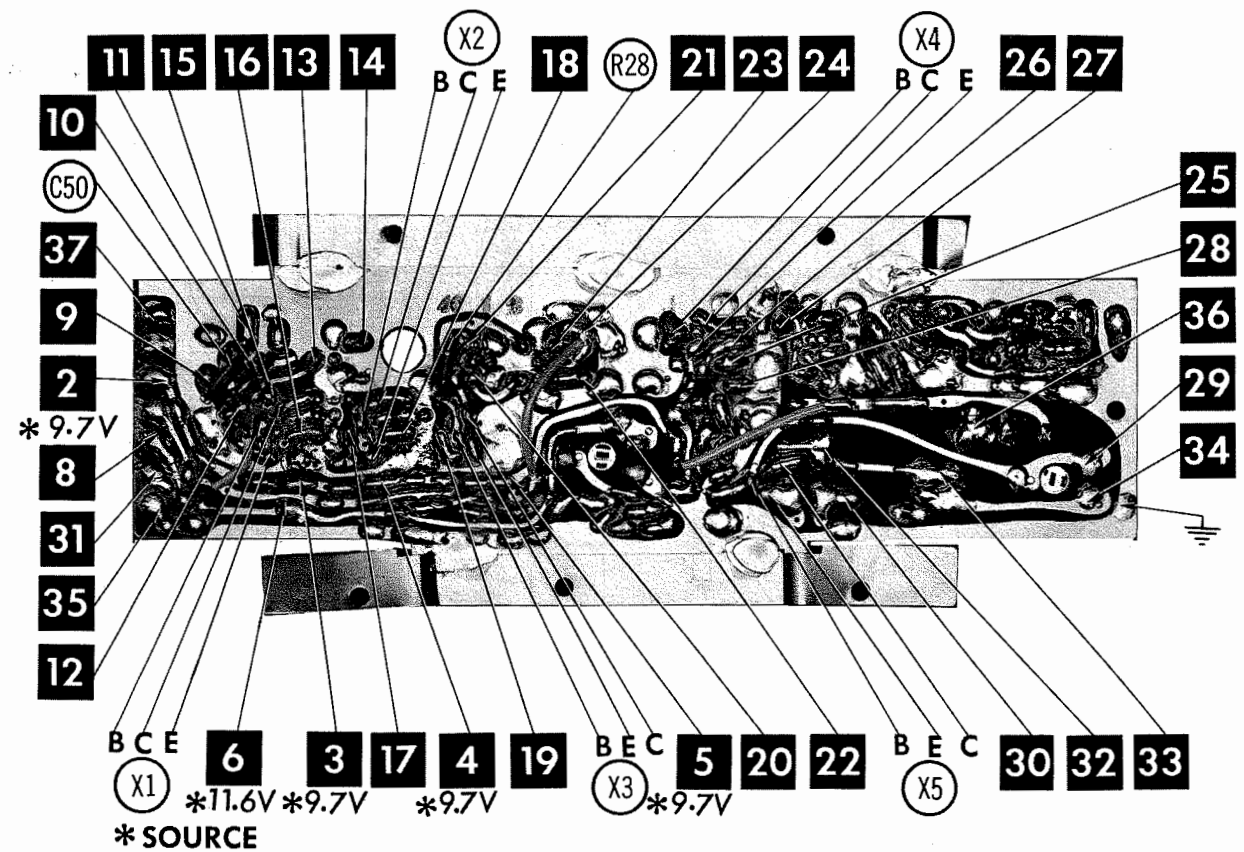




VIDEO, SOUND, AGC, SYNC SEP PRINTED BOARD

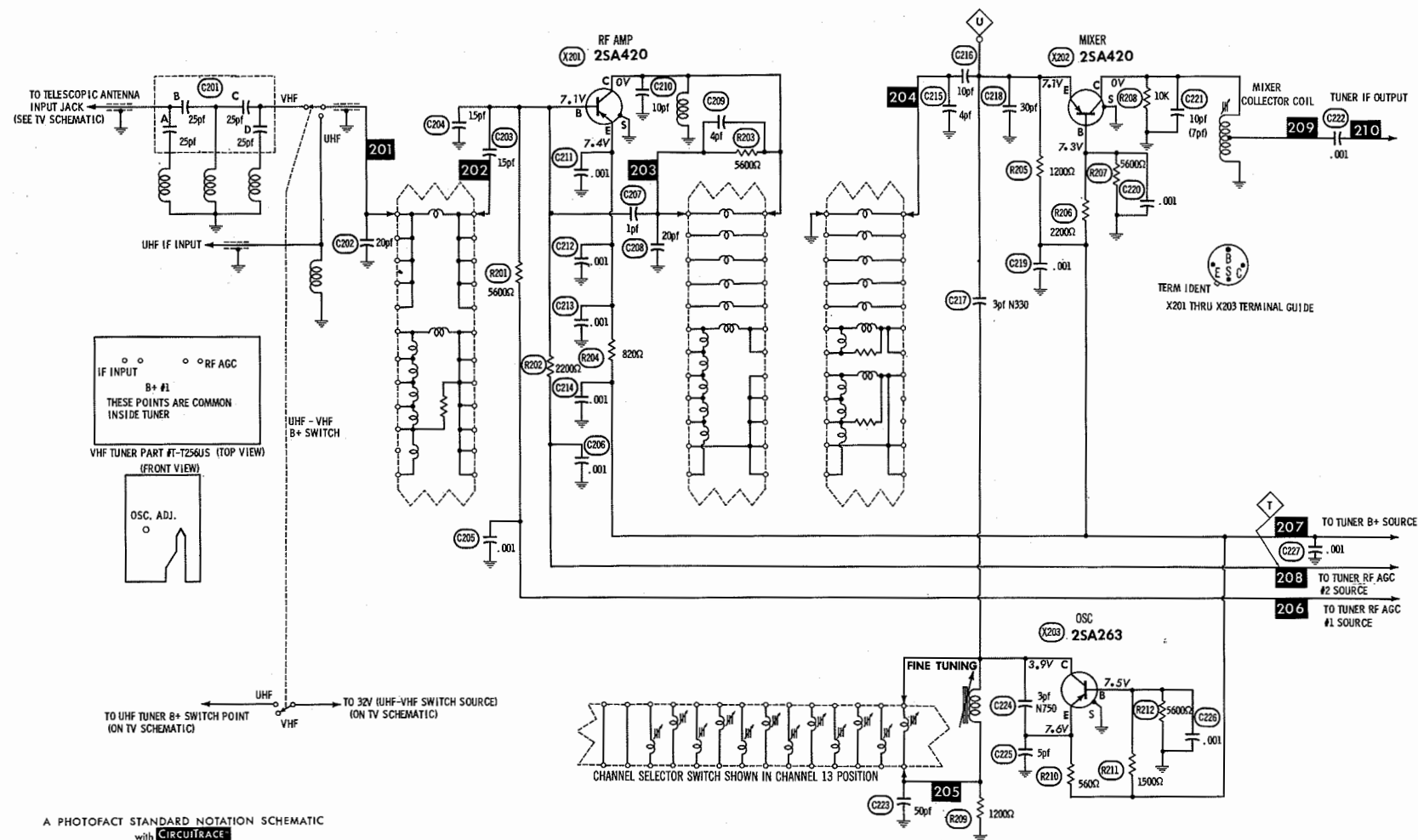


SWEEP-AUDIO PRINTED BOARD



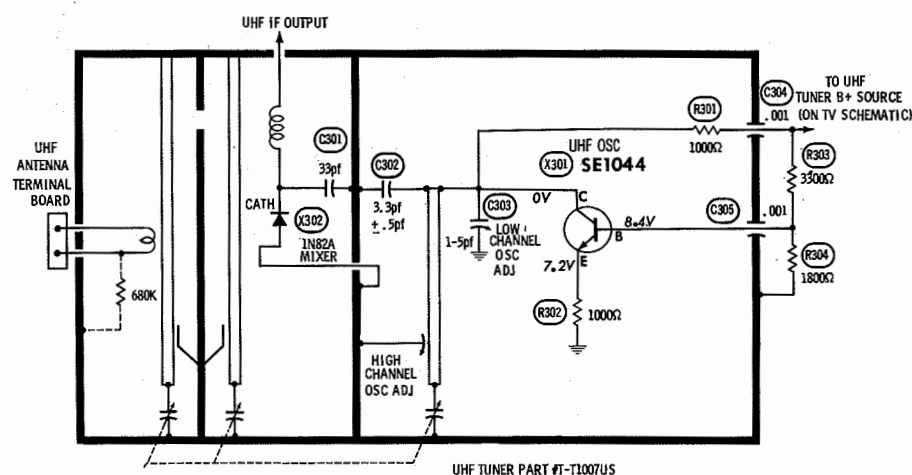
VIDEO, SOUND, AGC, SYNC SEP PRINTED BOARD

A Howard W. Sams CIRCUITRACE Photo



VHF TUNER PHOTOS PAGE 15

13 POSITION SWITCH- TYPE VHF TUNER T-T256US



UHF TUNER T-T1007US

VHF TUNER ALIGNMENT INSTRUCTIONS

OSCILLATOR ADJUSTMENTS

The individual oscillator slugs are accessible one at a time through a hole in the front of the tuner. Set the Fine Tuning to the center of its range and adjust oscillator for best picture and sound on each active channel.

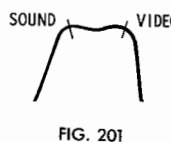
RF AND MIXER ALIGNMENT

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. "	See Chart	See Chart	12 thru 2	Vert. Input to Point \diamond , low side to ground.		Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

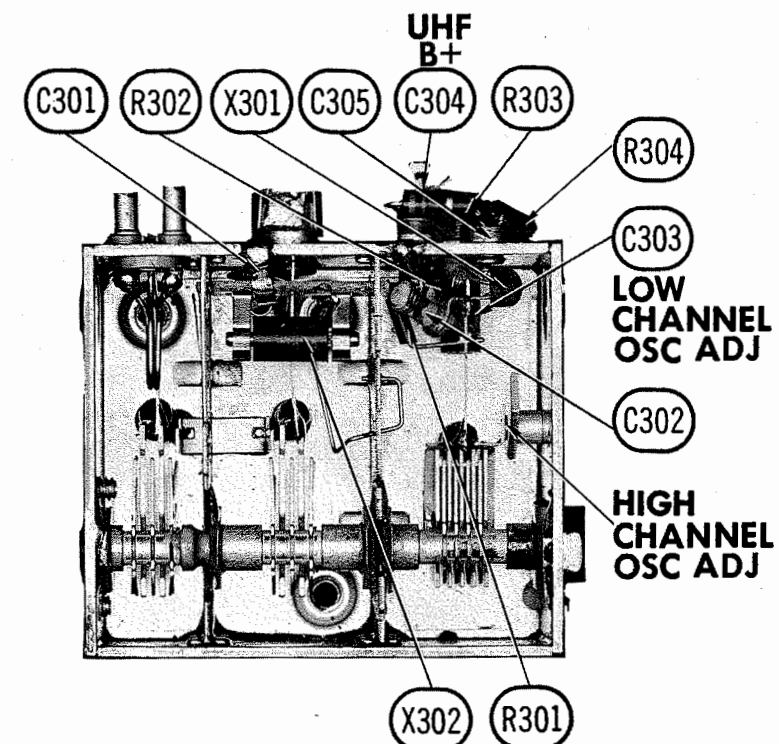
CHANNEL & FREQUENCY CHART

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
75MC	73.25MC 77.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13



UHF TUNER ALIGNMENT INSTRUCTIONS

Tune to a UHF station and adjust UHF IF Input Coil for best picture and sound. 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.



UHF TUNER T-T1007US

VHF TUNER PARTS LIST AND DESCRIPTION

VHF TUNER T-1256US

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X201	2SA420	VHF RF Amp.				PNP
X202	2SA420	VHF Mixer				PNP
X203	2SA263	VHF Osc.	DS25	GE-1		PNP

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOT PART No.	MALLORY PART No.	SPRAGUE PART No.	
C201A	25		DI-25	DD-250	CY801CG320K	CCTO-200	CNO425	10TCC-Q25	
C201B	25		DI-25	DD-250	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C201C	25		DI-25	DD-250	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C201D	25		DI-25	DD-250	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C202	15		DI-15	DD-150	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C203	15		DI-15	DD-150	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C204	15		DI-15	DD-150	CY801CG150K	CCTO-150	CNO425	10TCC-Q25	
C205	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C206	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C207	1		NPO-DI 1	DTZ-1	BY2801ZU102M	CCD-102	CNO510	10TCC-V10	
C208	20		NPO-DI 20	DTZ-20	CY801CG220K	CCTO-200	CNO420	10TCC-Q20	
C209	4							10TCC-Q30	
C210	10		NPO-DI 10	DTZ-10	CY801CG100K	CCTO-100	CNO410	10TCC-Q10	
C211	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C212	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C213	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C214	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C215	4							10TCC-V30	
C216	10		NPO-DI 10	DTZ-10	CY801CG100K	CCTO-100	CNO410	10TCC-Q10	
C217	3	N330						10TCC-V30	
C218	30		DI-30	DD-300	CS801CG330K	CCTO-300		10TCC-Q30	
C219	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C220	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C221	10		NPO-DI 10	DTZ-10	CY801CG100K	CCTO-100	CNO410	10TCC-Q10	
C222	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C223	50		NPO-DI 50	DTZ-50	CY801UJ470K	CCTO-510		10TCC-Q80	
C224	5	N750					CN7533	10TCC-V33	
C225	5		NPO-DI 5	DTZ-4R7	CZ801CH5R0D	CCTO-050	CNO547	10TCC-V50	
C226	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C227	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	

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

UHF TUNER PARTS LIST AND DESCRIPTION

UHF TUNER T-11007US

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X301	SE1044	UHF Osc.				NPN

POWER RECTIFIERS & SIGNAL DIODES

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOT PART No.	MALLORY PART No.	SPRAGUE PART No.	
C301	33		NPO-DI 33	DTZ-33	CS801CG330K	CCTO-330			
C302	3.3	±.5pf	NPO-DI 3.3	DTZ-3R3			CNO533	10TS-Q33	
C303	1-5							10TCC-V33	
C304	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	
C305	.001		BPD-001	DD-102	BY2801ZU102M	CCD-102	B210	5HK-D10	

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 A11 ... GENERAL CEMENT #8805 ... WALSCO #2505

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. Adjust the AGC Control, R12, fully counterclockwise, and adjust the AGC Bias Control, R14, to obtain a response curve which shows no indication of overload. Set the Channel Selector to UHF position.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1.	Connect DC probe of a VTVM thru a 47K resistor to point ①. Common to ground.	Connect across the VHF antenna terminals.	41.25MC 47.25MC	A1 A2	Adjust for MINIMUM.
2.	Connect vertical input of a scope to point ②. Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep) 41.25MC 42.8MC 44.25MC 45.75MC 47.25MC	A3, A4, A5, A6, Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 1.

SOUND IF ALIGNMENT

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
3.	High side to point ③, low side to ground.	4.5MC (Unmod.)	Any non-interfering channel	DC probe to point ④, low side to ground.	A7, A8, A9 Adjust for maximum.
4.	"	"	"	DC probe to point ⑤, low side to point ⑥.	A10 Adjust for zero. A positive or negative reading will be obtained on either side of the correct setting.

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 A11 for MINIMUM beat interference.

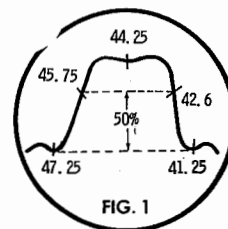
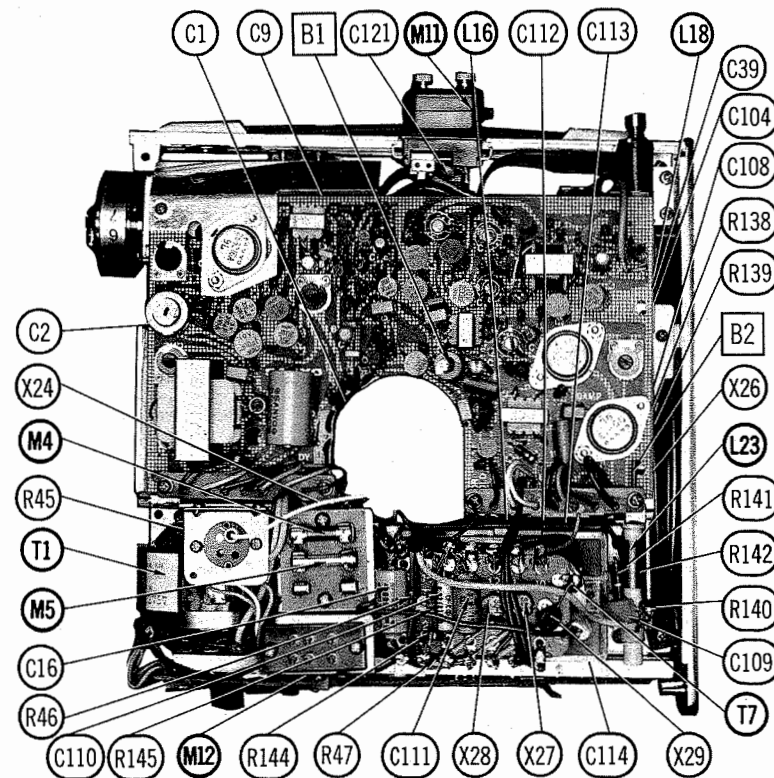


FIG. 1



PRINTED BOARD-REAR VIEW

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	REPLACEMENT DATA		
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.
V1	HV Rectifier	5642B			
V2	HV Doubler	5642B			
V3	HV Tripler	5642B			

PICTURE TUBE

ITEM No.	REMARKS	REPLACEMENT DATA				NOTES
		SEARS PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V4		230DB4				

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2SA420	1st. Video IF				
X2	2SA420	2nd. Video IF				
X3	2SA420	3rd. Video IF				
X4	2SA223	Video Amp. ②			SK-3008	
X5	2SC65	Video Output				
X6	2SA225	AGC Keying				
X7	2SB187	AGC Amp.			SK-3004	
X8	2SA219	1st. Sound IF			SK-3008	
X9	2SA219	2nd. Sound IF			SK-3008	
X10	2SB188	AF Amp.			SK-3004	
X11	2SB22	Audio Output			SK-3004	
X12	2SB22	Audio Output			SK-3004	
X13	2SB22	Dynamic Capacitor			SK-3004	
X14	2SA201	Syn. Separator			SK-3005	
X15	2SC60	Syn. Amp.				
X16	2SB187	Vert. Osc.			SK-3004	
X17	2SB216	Vert. Output ①			SK-3004	
X18	2SA201	Horiz. Phase Inv.			SK-3005	
X19	2SB22	Horiz. Osc.			SK-3004	
X20	2SB22	Horiz. Buffer			SK-3004	
X21	2SB216	Horiz. Driver			SK-3004	
X22	2SB375	Horiz. Output			SK-3004	
X23	2SB217	Electronic Filter ①			SK-3004	

① When replacing, apply silicon grease to both sides of insulator. Tighten mounting screws securely. Check bias adjustment.
② Alternate, 2SA227.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS				DIODES
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.
X24	.98A	T-E1042	1N1692①	FW50	SK-3016①	10C or F-1①	
X25	1A	T-E1045					
X26		T-E1029	1N1697	1N1098 or 1N2071	SK-3016 or SK-3017	60C or F-6	
X27	.005A	T-E1029	1N1697	1N1096 or 1N2071	SK-3016 or SK-3017	80C or F-6	
X28	1ma	T-E1029	1N1697	1N1096 or 1N2071	SK-3016 or SK-3017	60C or F-6	
X29	1ma	T-E1029	1N1697	1N1096 or 1N2071	SK-3016 or SK-3017	60C or F-6	
X30		T-E1031					1N60
X31		T-E1031					1N60
X32		T-E1031					1N60
X33		T-E1031					1N60
X34		T-E1031					1N60
X35		T-E1031					1N60
X36		T-E1031					1N60
X37		T-E1031					1N60
X38		T-E1029					
X39		T-E1031			SK-3016 or SK-3017		
X40		T-E1031					
X41		T-E1031					
X42		T-E1029			SK-3016 or SK-3017		

When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.
① 4 Required.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		SEARS PART No.	REPLACEMENT DATA			
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
C1	2000	20	T-C8153		BR2000-25		
C2	2000	20	T-C8153		BR2000-25		
C3	2000	20	T-C8153		BR2000-25		
C4	30	25	T-C7075	BCD25025	NLW30-25	MT1-14	TT25X30
C5	30	25	T-C7075	BCD25025	NLW30-25	MT1-14	TT25X30
C6	150	12	T-C7053	BCD12150			TT12X150
C7	150	12	T-C7053	BCD12150			TT12X150
C8	50	25	T-C7076	BCD25050			TT25X50
C9	1	25	T-C7088	BCD25001	NLW1-50	MT1-1	TT25X1
C10	5	25	T-C7072	BCD25005	NLW5-50	MT1-3	TT25X5
C11	1	25	T-C7088	BCD25001	NLW1-50	MT1-1	TT25X1
C12	2	20	T-C7070	BCD25002	NLW2-50	MT1-1	TT25X2
							VL-1144
							VL-1144
							VL-1215
							TL-1200
							TL-1202
							TL-1171

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.

CAPACITORS(cont)

ELECTROLYTIC CAPACITORS(cont)

ITEM No.	RATING		REMARKS	REPLACEMENT DATA					
	CAP.	VOLT.		PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C13	2	20		T-C7070	BCD25002	NLW2-50	MT1-1	TT25X2	TL-1171
C14	200	10		T-C7036	BCD10190			TT10X200	
C15	25	100		T-C7077	CRE912A	BR25-150			TVA-1411
C16	5	300		T-C7011					
C17	5	25		T-C7072	BCD25005	NLW5-50	MT1-3	TT25X5	TL-1202
C18	10	25		T-C7069	BCD25010	ECSP10-25	MT1-5	PET1760	TL-1204
C19	10	25		T-C7073	BCD25010	ECSP10-25	MT1-5	PET1760	TL-1204
C20	10	25		T-C7069	BCD25010	ECSP10-25	MT1-5	PET1760	TL-1204
C21	150	12		T-C7053	BCD12150			TT12X150	VL-1144
C22	100	3		T-C7033	BCD3100	ECSP100-3	MT1-18	TT12X150	VL-1144
C23	150	12		T-C7053	BCD12150			TT12X150	VL-1144
C24	150	12		T-C7053	BCD12150			TT12X150	VL-1144
C25	150	12		T-C7053	BCD12150			TT12X150	VL-1144
C26	200	10		T-C7036	BCD10190			TT10X200	
C27	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C28	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C29	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C30	10	25		T-C7069	BCD25010	ECSP10-25	MT1-5	PET1760	TL-1204
C31	30	25		T-C7075	BCD25025	NLW30-25	MT1-14	TT25X30	
C32	30	25		T-C7075	BCD25025	NLW30-25	MT1-14	TT25X30	
C33	300	10		T-C7093					
C34	300	3		T-C7092	BCD3300		MT1-24	TT3X300	VL-1067
C35	300	3		T-C7092	BCD3300		MT1-24	TT3X300	VL-1067
C36	500	12		T-C7038	PRS1170	BR500-12	Q11-30	TC1505	TVA-1132
C37	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C38	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C39	50	25		T-C7076	BCD25050			TT25X50	VL-1215
C40	1	25		T-C7068	BCD25001	NLW1-50	MT1-1	TT25X1	TL-1200
C41	50	25		T-C7076	BCD25050			TT25X50	VL-1215
C42	2000	20		T-C8153		BR2000-25	MT1-2	TT100X2	
C43	2	30		T-C7071	BCD50020	ECSP20-50	MT1-12	TT50X20	VL-1309
C44	20	50		T-C7087	BCD50020	ECSP20-50	MT1-12	TT50X20	VL-1309
C45	20	50		T-C7087	BCD50020	ECSP20-50	MT1-12	TT50X20	VL-1309
C46	20	50		T-C7087	BCD50020	ECSP20-50	MT1-12	TT50X20	VL-1309
C47	20	50		T-C7087	BCD50020	ECSP20-50	MT1-12	TT50X20	VL-1309

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C48	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C49	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C50	100 N470 25V 10%					*	10TCT-T10	
C51	3 N470 ±.25pf					*	10TCT-V30	
C52	20 N470 10%					*	10TCT-Q20	
C53	30 N470 10%					*	10TCT-Q30	
C54	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C55	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C56	3 N470 ±.25pf		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C57	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C58	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C59	3 N470 ±.25pf		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C60	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C61	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C62	6 N470 ±.5pf					*	10TCT-V56	
C63	5 N470 ±.5pf					*	10TCT-V50	
C64	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C65	50 N470 10%		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C66	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C67	50 N470 10%					*	10TCT-Q50	
C68	500					*	10TCT-Q50	
C69	.003		P288N-05	CPR-510J	CD7F511K100	DM-19-501K	SK351	1FM-35
C70	.05		P288N-2	CPR-3000J	CD19F302K500	DM-19-302K	SK230	1FM-25
C71	.2 150V		P288N-2	DF-503	PM255	4DP-3-503	PVC215	2TM-S50
C72	.005 50V		TTD-005	CK-503	WFM-1W2	2DP-4-204	PVC212	2PS-P20
C73	4 N470 ±.5pf					*	TA250	TG-D50
C74	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C75	50		DI-50	DD-500	JBZ601YP500K	CCD-500	GP450	10TS-Q50
C76	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C77	2 ±.5pf		NPO-DI 2.2	DTZ-2R2	CZ601CJ2R2D	CCTO-2R2	CNO522	10TCC-V22
C78	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C79	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C80	30 N470					*	TA250	TG-D50
C81	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C82	300 10%		DI-300	DD-301	JBZ601YP331K	CCD-301	GP330	10TS-T30
C83	.02		P288N-02	DF-104	PM4P1	1DP-1-203	PVC1122	2PS-S20
C84	150 N470 10%					*	TA250	TG-D50
C85	300 10%					*	TA250	TG-D50
C86	.1		P288N-1	DF-104	PM2P1	2DP-3-104	PVC201	2TM-P10
C87	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C88	.005 50V		TTD-005	CK-503	HOY101ZV502P	TA250	TG-D50	
C89	.001		CPR-1000J	CD7F102K100	DM-19-102	SK220	MS-21	MS-21
C90	.002		CPR-2000J	CD19F202K500	DM-19-202	SK220	MS-22	MS-22
C91	.002		CPR-2000J	CD19F202K500	DM-19-202	SK220	MS-22	MS-22
C92	.01 50V		P288N-01	DF-104	PM4P1	1DP-1-103	PVC111	4PS-S10
C93	400V		P488N-1	DF-104	PM4P1	4DP-3-104	GEM401	4TM-P10
C94	.05		P288N-01	DF-104	PM4P1	1DP-2-503	PVC1147	2PS-S50
C95	.02 400V		P488N-02	DF-104	PM4P1	4DP-2-203	PVC412	4PS-S20
C96	.01 50V		P288N-01	DF-104	PM4P1	1DP-2-103	PVC211	4PS-S10
C97	.01 50V		P288N-01	DF-104	PM4P1	1DP-2-103	PVC211	4PS-S10
C98	.05		P288N-05	DF-104	PM4P1	1DP-2-503	PVC1147	2PS-S50
C99	.05		P288N-05	DF-104	PM4P1	1DP-2-503	PVC1147	2PS-S50
C100	.05		P288N-05	DF-104	PM4P1	1DP-2-503	PVC1147	2PS-S50
C101	.02 50V		P288N-02	DF-104	PM4P1	1DP-1-203	PVC1122	2PS-S20
C102	.2		P288N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C103	.003		P288N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C104	.2 50V		P288N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C105	.1 600V		P688N-1	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C106	.002		P688N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C107	.002		P688N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C108	.2 150V		P288N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C109	.2 50V		P288N-2	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20
C110	.02 400V		P488N-02	DF-104	PM4P1	1DP-3-204	PVC1122	2PS-S20

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C111	.2 150V		P288N-2		DMF2P22	2DP-4-204	PVC220	2PS-P20
C112	500 7KV							
C113	500 7KV							
C114	.01 800V		P288N-01		DMF5S1	6DP-2-103	PVC611	6PS-S10
C115	7 50V							
C116	.005 50V		BPD-005	DD-5022	HOY101ZV502P	CCD-502	GP250	5GAB-S47
C117	.005 50V		BPD-005	DD-5022	HOY101ZV502P	CCD-502	GP250	5GAB-S47
C118	.005 50V		BPD-005	DD-5022	HOY101ZV502P	CCD-502	GP250	5GAB-S47
C119	.005 50V		BPD-005	DD-5022	HOY101ZV502P	CCD-502	GP250	5GAB-S47
C120	1mfd 50V				DMF1W1			
C121	.001		BPD-001	DD-102	BYZ601ZU102M	CCD-102	B210	5HK-D10
C122	.001		BPD-001	DD-102	BYZ601ZU102M	CCD-102	B210	5HK-D10
C123	.001		BPD-001	DD-102	BYZ601ZU102M	CCD-102	B210	5HK-D10

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

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			SEARS PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume/Switch	10K	T-G 1804	F2-10K①, SSK012, KR-2	A47-10K-Z①, KSS-3, SWE-20	Q13-118①, 78-2 or (BU1①, CF61, SS1, WF)*	RU14A, SL36, SL3250, US42 or (UA14A①, SK750, US42)or(U18①, US27)
R2	Contrast	500Ω	T-G 1610				
R3	Brightness	500K	T-G 1603				
R4	Horiz. Hold	3000Ω	T-G 1805				
R5	Vert. Hold	5000Ω	T-G 1816				
R6	Voltage	200Ω	T-G 1815				
R7	Vert. Linearity	1000Ω	T-G 0030				
R8	Height	50 2W	T-G 2021				
R9	Vert. Bias	5000Ω	T-G 0029	V-5	U39-5	110-5	
R10	Vert. Range	50K	T-G 0027				
R11	Horiz. Range	50K	T-G 0027				
R12	AGC	50K	T-G 0035				
R13	Video Bias	50K	T-G 0035				
R14	AGC Bias	50K	T-G 0023			X201R503B	MTC541L

* "SNAPTROL"

① Enlarge mounting hole.

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
R30	Thermistor 950Ω Cold			#T-E1039	R103	Thermistor 562 Cold			#T-E1036
R87	Thermistor 56Ω Cold			#T-E1036	R107	V.D.R. ↑			#T-E1043
R70	Thermistor 56Ω Cold			#T-E1038	R123	Thermistor 1150Ω Cold			#T-E1046
R101	Thermistor 175Ω Cold			#T-E1038	R146	5.1Ω 3W	PW5-5	5W-SQ-5	
					R147	5.6Ω 20W	2C-5	20W-SQ-5	

Sears Part Number

† Voltage Dependent Resistor

COILS (RF-IF)