

CABINET—REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station. Set all controls for normal operation. Short point ① to ground. Connect a jumper across Horizontal Stabilizer coil, L19. Adjust Horizontal Hold control, R3, until picture floats across the screen. Remove jumper across Horizontal Stabilizer coil, L19. Adjust B1 until picture floats. Remove short from point ①.

HORIZONTAL LINEARITY ADJUSTMENT

Adjust Linearity coil, L20, for best symmetry in the center area of the screen. With maximum brightness and contrast, check that voltage drop across the Horizontal Output Tube screen resistor, R107, is not more than 13 volts.

DISASSEMBLY INSTRUCTIONS

TV CHASSIS REMOVAL

1. Remove all knobs. Disconnect antenna leads. Remove six screws holding back cover and remove back cover.
2. Disconnect picture-tube socket, high-voltage anode lead, yoke plug, and speaker leads.
3. Remove 4 nuts holding tuners and controls. Remove 4 screws holding chassis, and lift out chassis and tuners.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure.
2. Lay unit face down on a soft protective surface.
3. Loosen one screw holding picture-tube retaining wire and lift out picture tube. Do not lift out by neck of tube.

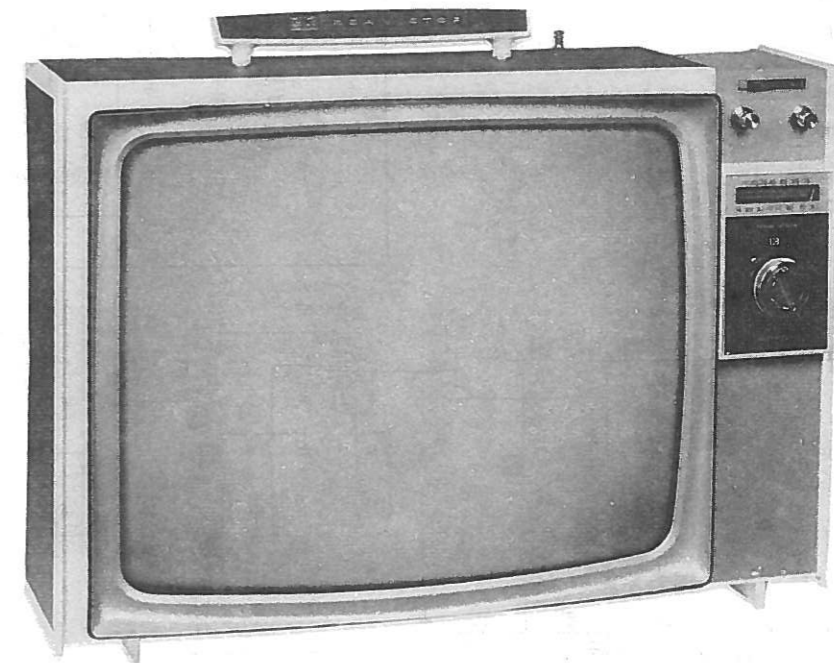
SET 924 FOLDER 3

RCA VICTOR
CHASSIS KCS158B/C

PHOTOFACT® Folder

with CIRCUITRACE®

RCA VICTOR
CHASSIS KCS158B/C



MODEL AJ153E

TRADE NAME	RCA Victor Models AJ153E/J (Ch. KCS158B), AJ157M/W (Ch. KCS158C)		
SUPPLIER	For Current Address, See Annual Index		
TYPE SET	Television Receiver	TUBES: Fourteen	TRANSISTORS: Three
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)		

SERVICING IN THE FIELD

SAFETY GLASS

The safety glass is an integral part of the picture tube.

FUSE OR FUSE DEVICE

A 1 1/2-inch length of #34 fuse wire is used for AC protection. (For location, see F2 in photo "Chassis - Rear View".)

A Circuit Breaker is used for DC power supply protection and may be reset by depressing the reset button. (See "Cabinet - Rear View" for location.)

VHF OSCILLATOR ADJUSTMENT

The fine tuning mechanically engages osc. slug for adjustment (one slug for each channel).

AGC

The AGC may be varied by means of an AGC Control. (See "Cabinet - Rear View" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

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

WIDTH

The width may be varied by a Width Control. (See "Cabinet - Rear View" 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, Indiana 46206



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DATE 12-67

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RCA VICTOR
CHASSIS KCS158B/C

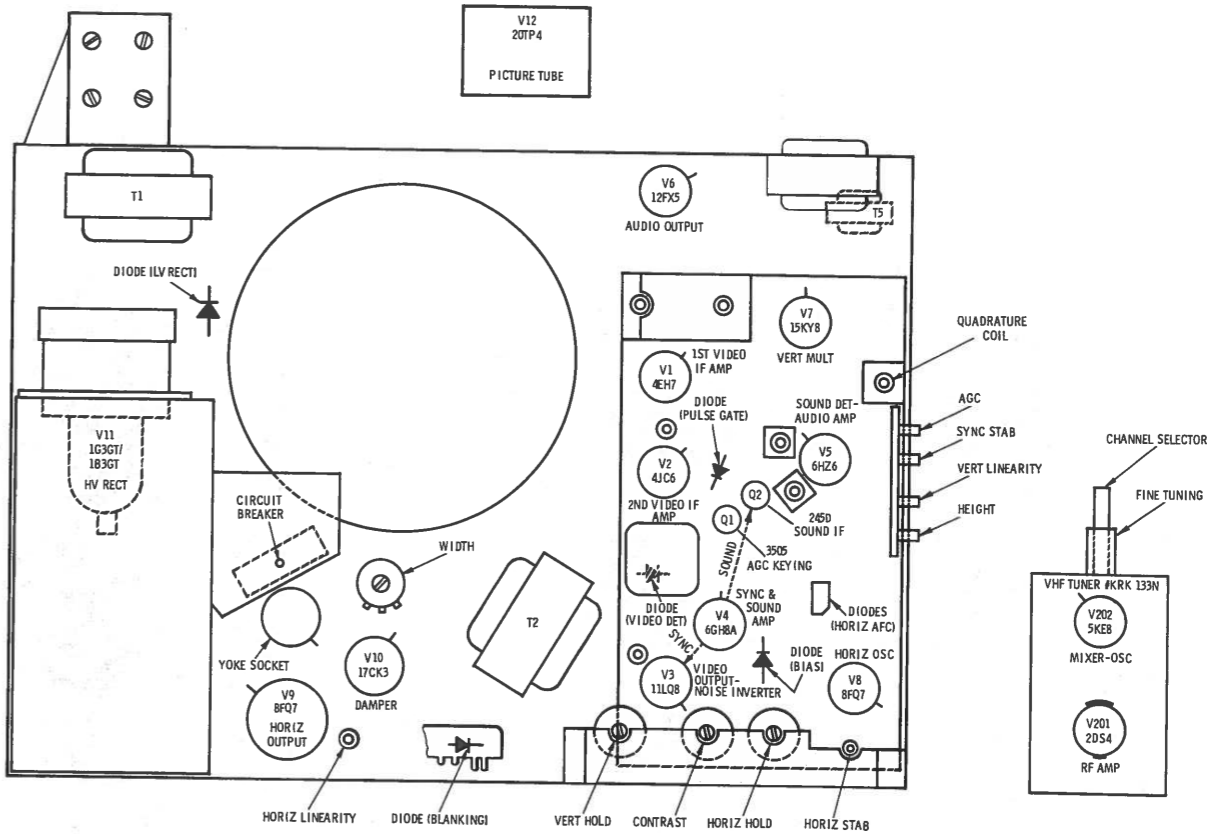
SET 924 FOLDER 3

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	TOP CAP
V1	4EH7	47Ω	1.2meg	47Ω	9Ω	11Ω	0Ω	1000Ω †	33K †	0Ω				
V2	4JC6	120Ω	.1Ω	120Ω	11Ω	12Ω	0Ω	470Ω †	470Ω †	0Ω				
V3	11LQ8	6000Ω	1.3meg	28K †	14Ω	16Ω	2.4Ω	150Ω ●	18K †	5000Ω †				
V4	6CH8A	28K †	150Ω ●	10K	14Ω	12Ω	12K	100Ω	0Ω	6meg				
V5	6HZ6	3.2Ω	390Ω	9Ω	8Ω	750K †	22K †	470K						
V6	12FX5	150Ω	250K	20Ω	19Ω	NC	4700Ω †	400Ω †						
V7	15KY8	3300Ω	2meg	0Ω	19Ω	17Ω	200Ω †	1200Ω †	600K †	750K				
V8	8FQ7	16K †	900K	1500Ω	8Ω	4Ω	46K †	42K	1500Ω	NC				
V9	22JF6	680Ω †	2.2meg	0Ω	21Ω	20Ω	NC	680Ω †	82K †	NC				7Ω †
V10	17CK3	NC	17Ω †	NC	21Ω	21Ω	NC	NC	NC	INF				
V11	1G3GT	NC	1000Ω ††	NC	TP	NC	TP	1000Ω ††	NC					650Ω †
V12	20TP4	4Ω	240K †	33K †	0Ω	TP	NC	200K	3Ω			NC		
V201	2DS4	NC	7000Ω †	NC	NC	NC	NC	NC	0Ω	NC	0Ω		1Ω	
V202	5KE8	7100Ω †	82K	22K †	1Ω	3Ω	1300Ω †	0Ω	1K	6600Ω				
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	TOP CAP

† MEASURED FROM OUTPUT OF X1 † MEASURED FROM PIN 9 OF V10.
†† MEASURED FROM ANODE LEAD OF V12. N C NO CONNECTION TP TIE POINT
● READING DEPENDS ON POLARITY OF METER CONNECTIONS.

TUBE PLACEMENT CHART



RCA VICTOR
CHASSIS KC5158B/C

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.

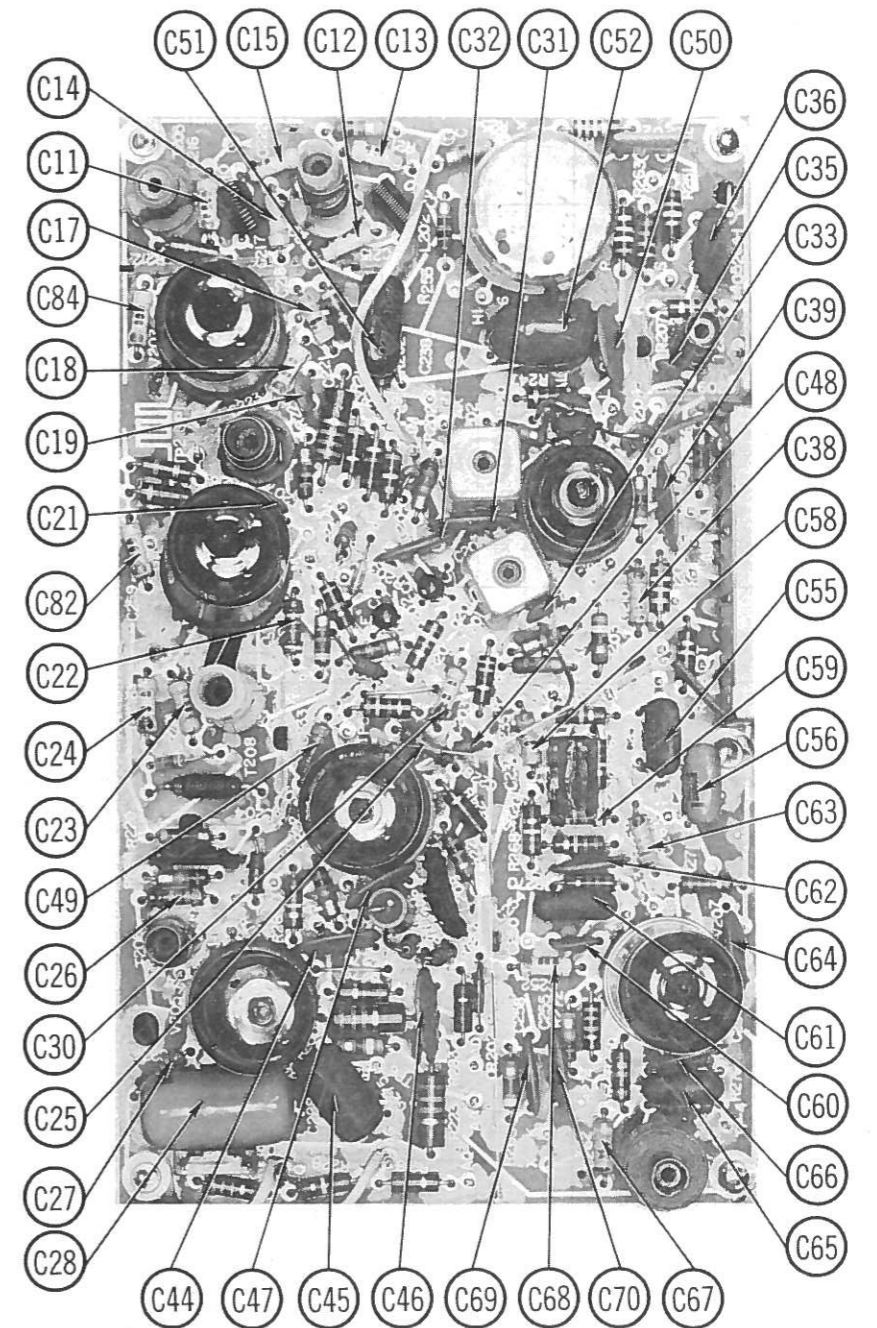
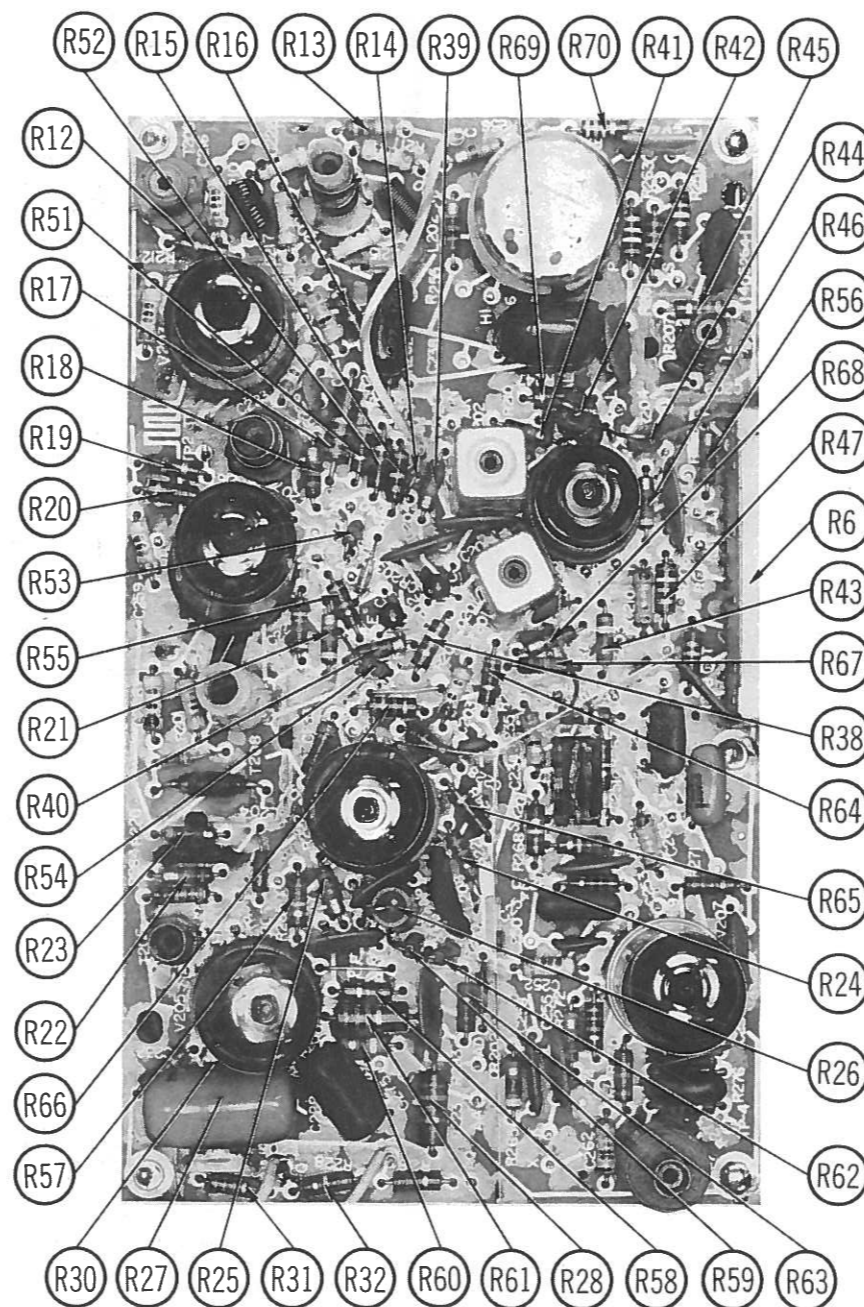
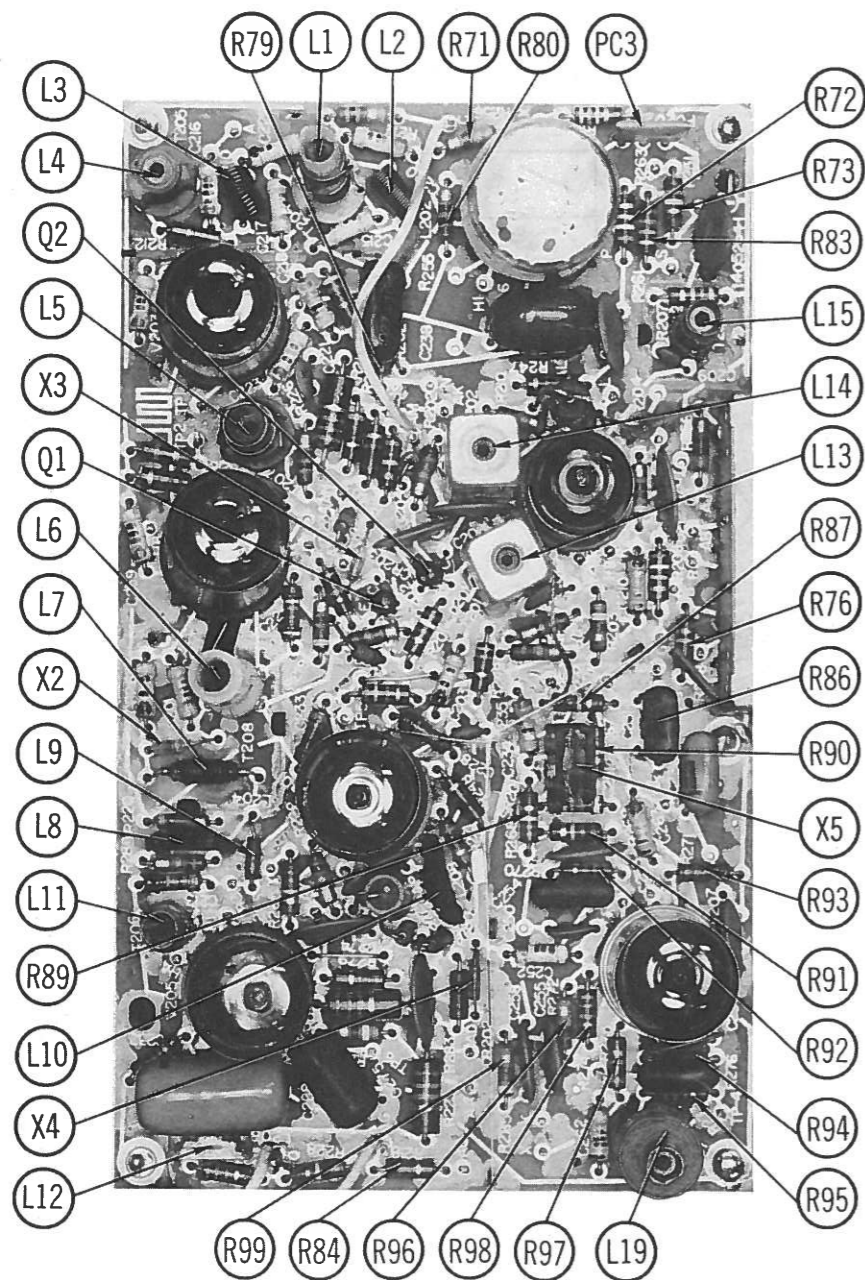
POWER SUPPLY FAILURE
No raster, no sound X1, F1 (Circuit Breaker), F2 AC Line Fuse

SWEEP FAILURE
No raster, has sound V8, V9, V10, V11, V12
No vertical deflection V7
Poor vert. linearity or foldover V7
Poor horiz. linearity or foldover V8, V9, V10
Narrow picture V8, V9, V10, X1 (Rectifier)
Vert. off freq. V7
Horiz. off freq. V8, X5 (Horiz. AFC Diode)

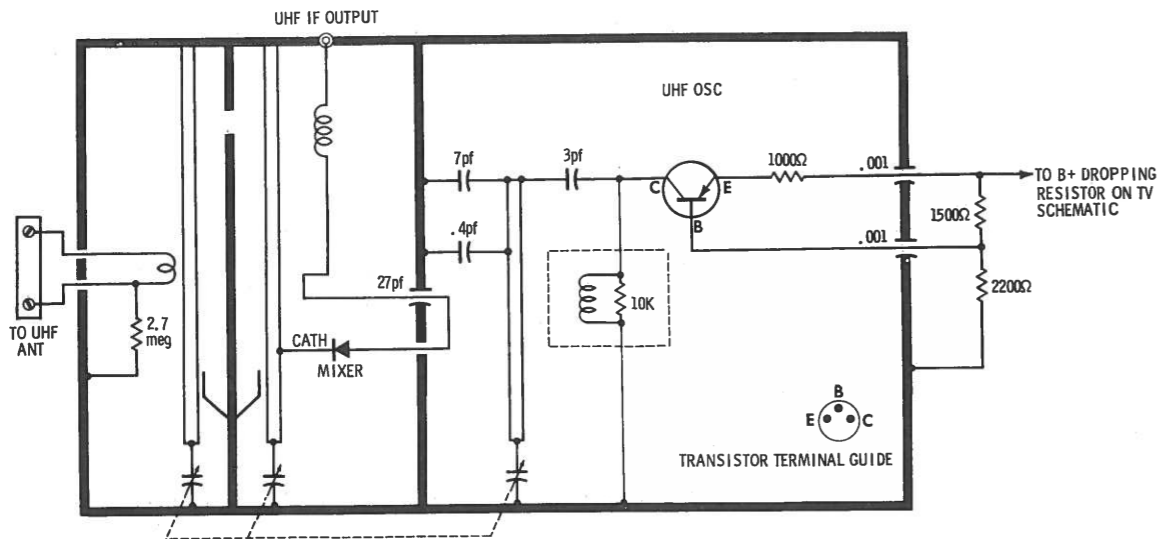
LOSS OF PICTURE OR SOUND
No pic, no sound, has raster V1, V2, V3, V4
No pic, no sound, has snow V201, V202, V1 X2 (Video Det. Diode)
No pic, has sound, has raster V3, V12
Has pic, no sound V4, V5, Q2, V6
Overloaded picture Q1

SYNC FAILURE
No vert. sync V3, V4
No horiz. sync V3, V4
No vert. or horiz. sync V3, V4

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.)

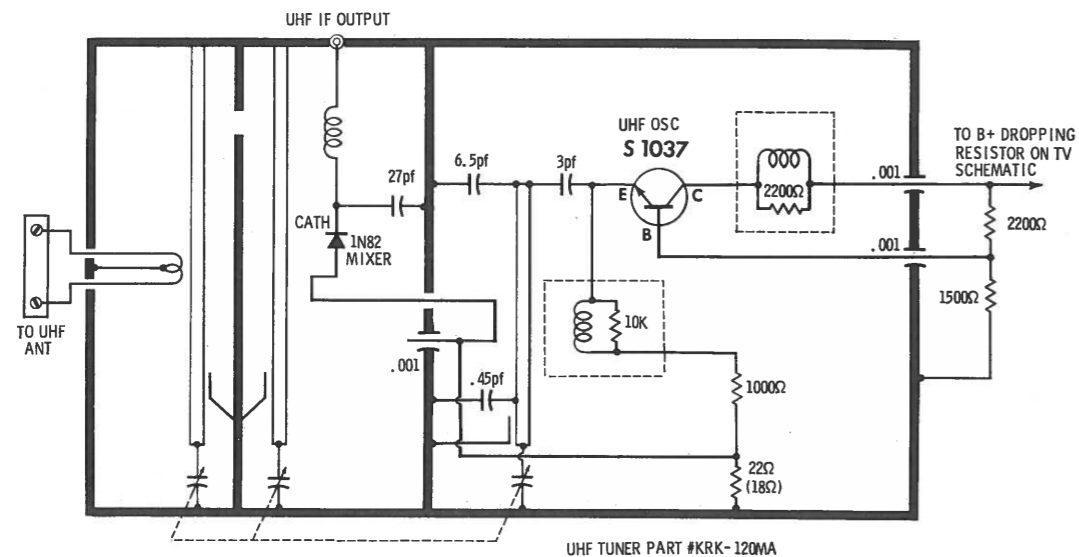


PRINTED CIRCUIT BOARD



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UHF TUNER KRK-120NA



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UHF TUNER KRK-120MA

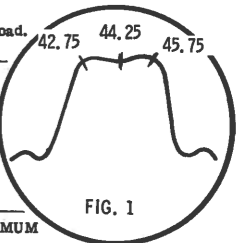
ALIGNMENT INSTRUCTIONS

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 A6, A10, A11 .. GENERAL CEMENT #8606, 8606L, 8869 .. WALSCO #2543, 2544, 2588
A7, A8, A9 and Mixer Plate Coil GENERAL CEMENT #9296, 9297, 9300 ... WALSCO #2510, 2546, 2547

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 \diamond) 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 \diamond . Common to ground.		39.75 MC 41.25 MC	A1 A2	Adjust for MINIMUM.
2.	Connect vertical input of a scope to point \diamond . Low side to ground.	44 MC (10 MC Sweep)	42.75 MC 44.25 MC 45.75 MC	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 \diamond . Low side to ground.	44 MC (10 MC Sweep)	39.75 MC 41.25 MC 42.75 MC 44.25 MC 45.75 MC 47.25 MC	A5 A6 Mixer Plate Coil	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.

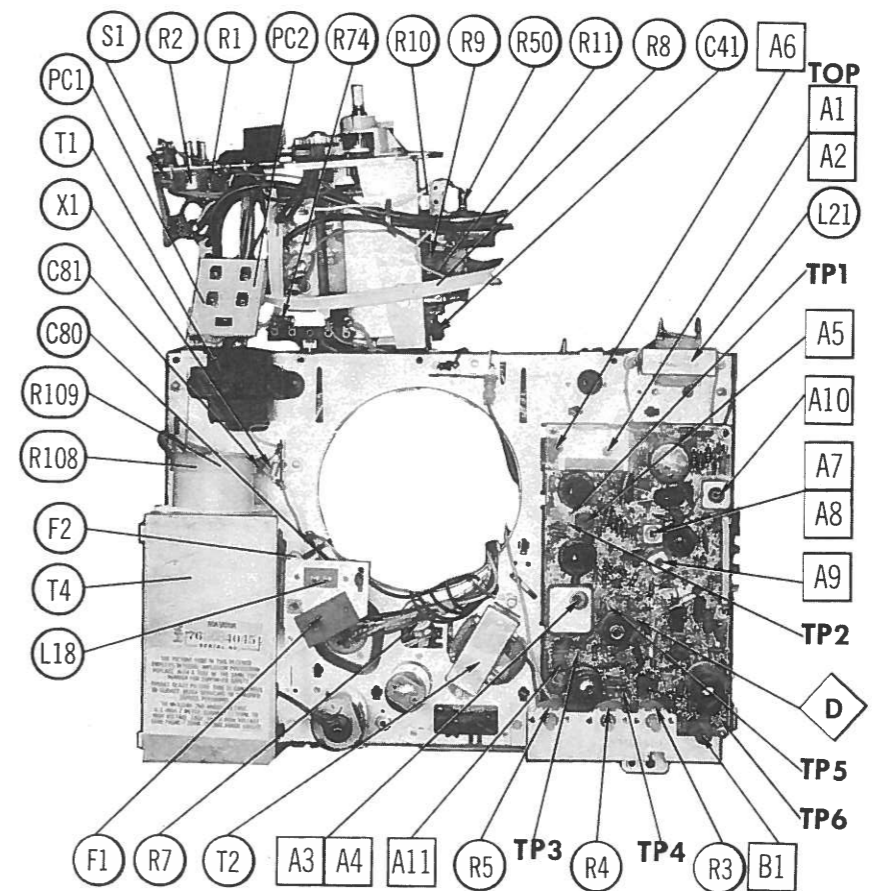
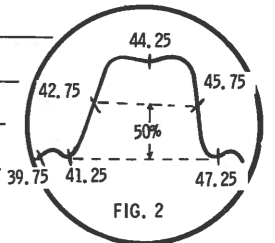


4.5 MC TRAP ALIGNMENT

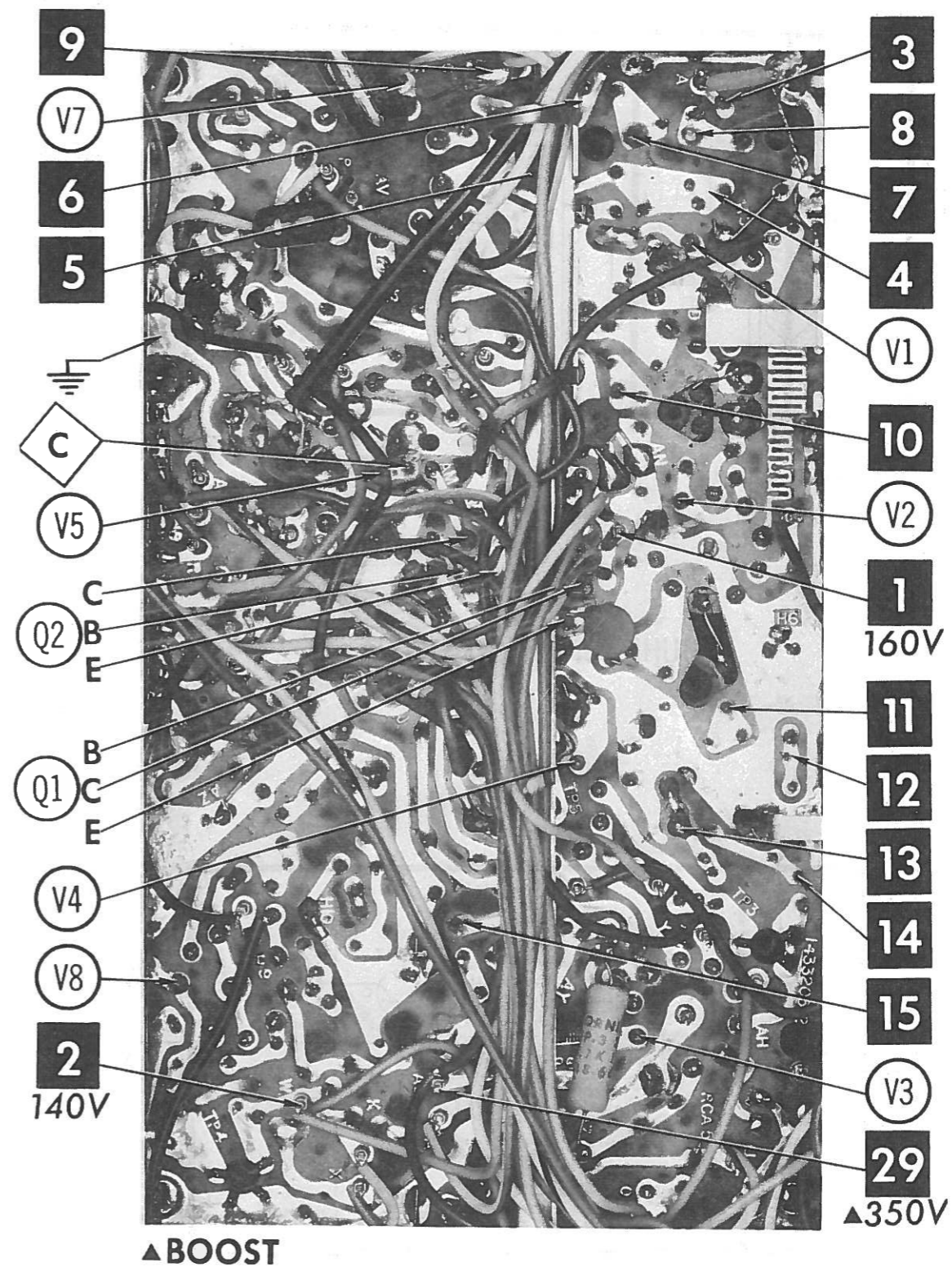
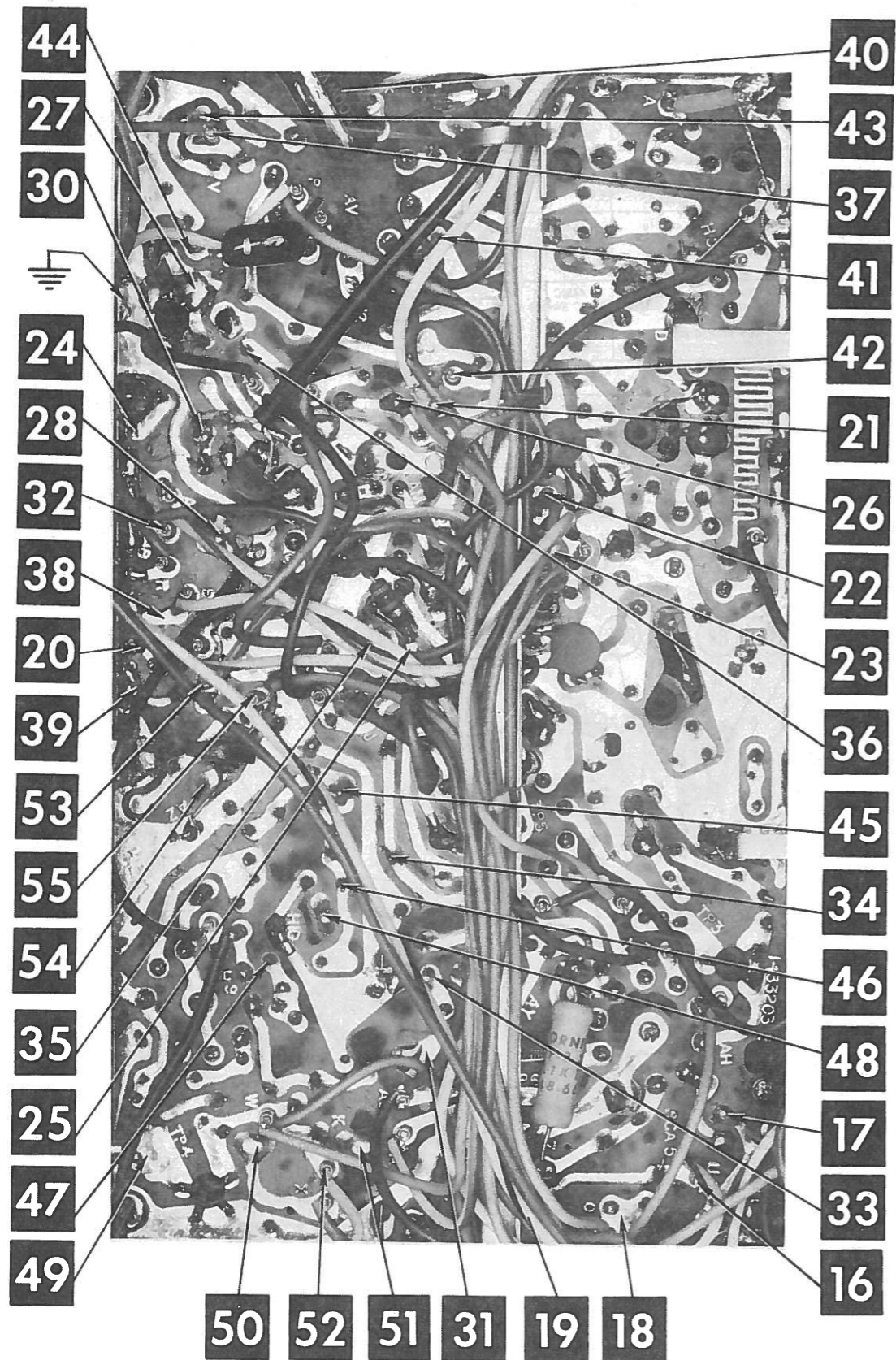
Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A 11 for MINIMUM beat interference.

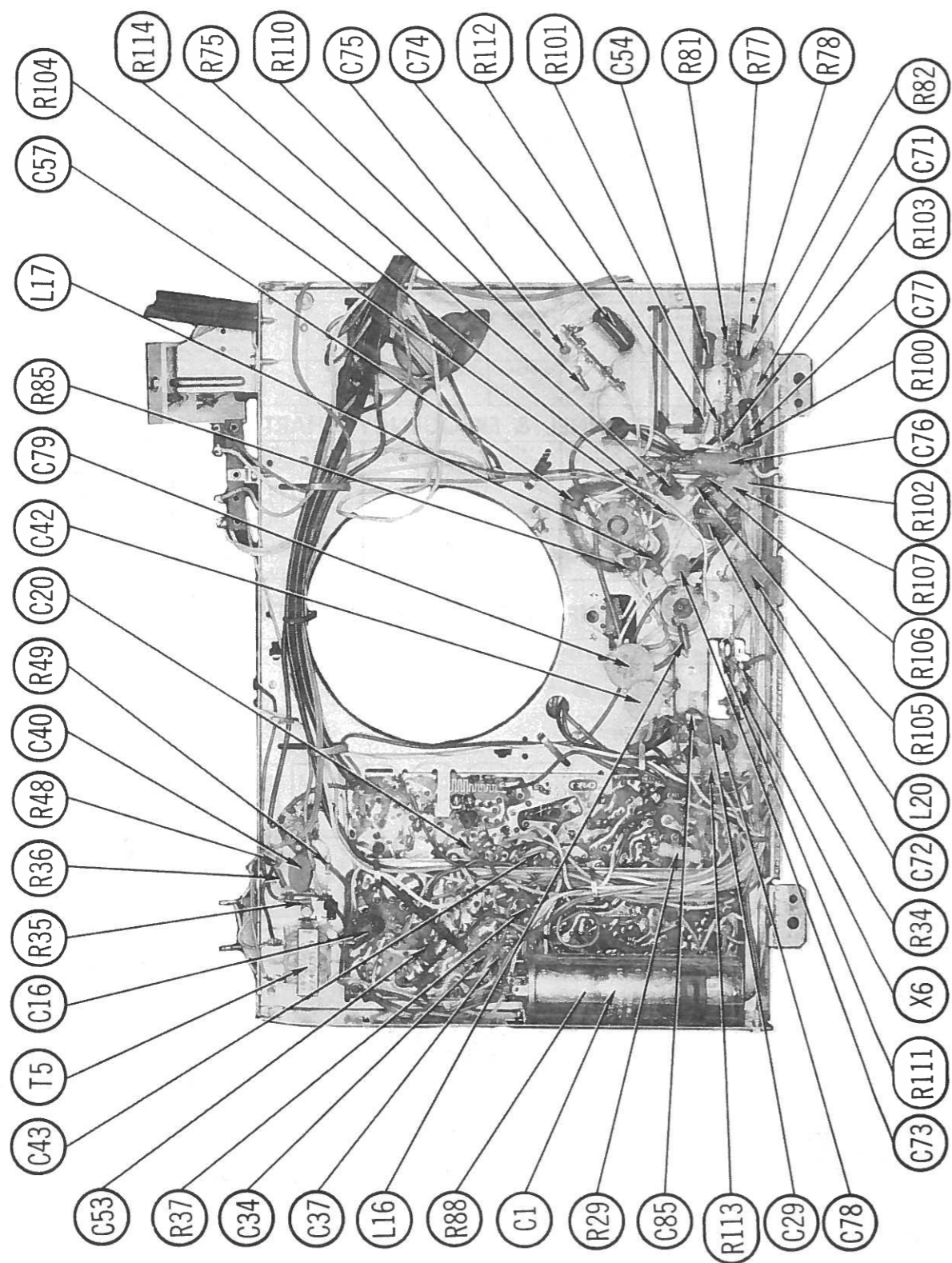
SOUND IF ALIGNMENT

Connect a VTVM thru a detector probe to point \diamond . Tune in a TV station and adjust A7, A8 and A9 for maximum deflection on VTVM. Remove VTVM. Reduce signal at antenna until distortion occurs. Adjust A10 for maximum undistorted sound.

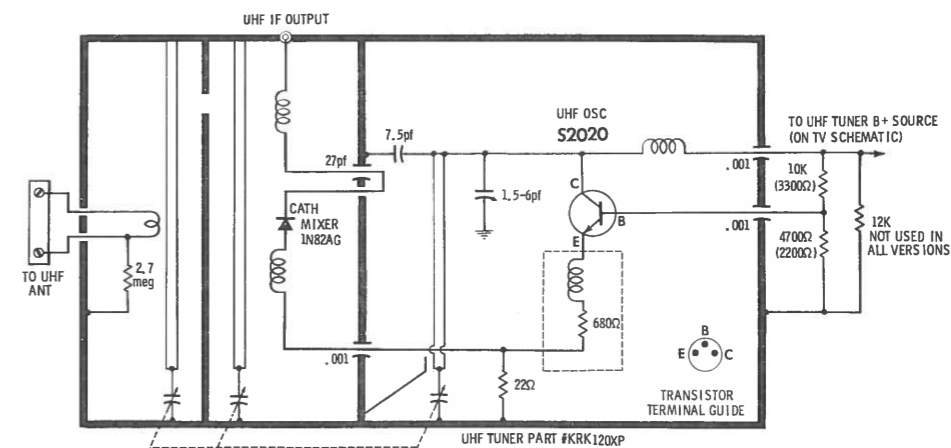


CHASSIS-REAR VIEW



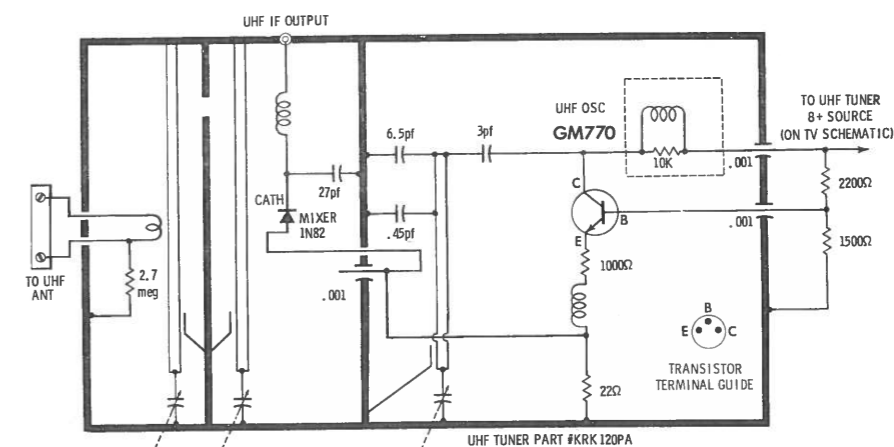


CHASSIS — FRONT VIEW



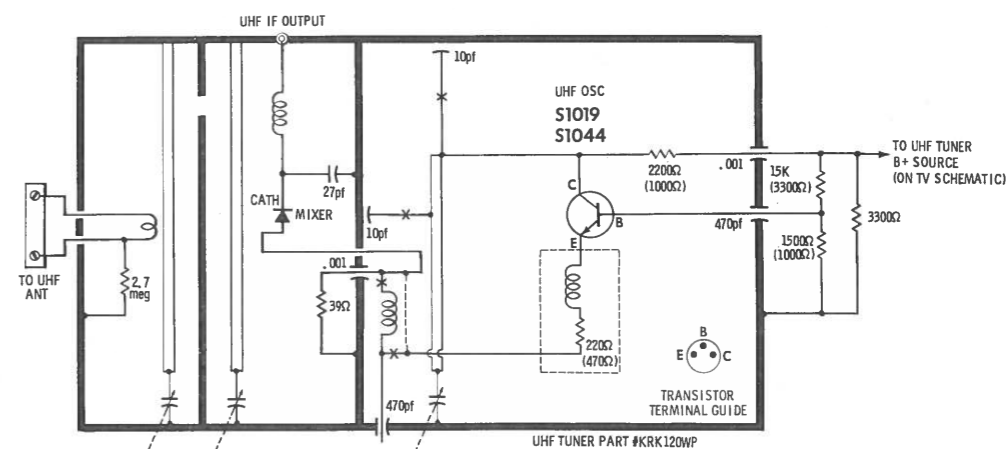
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UHF TUNER KRK-120XP



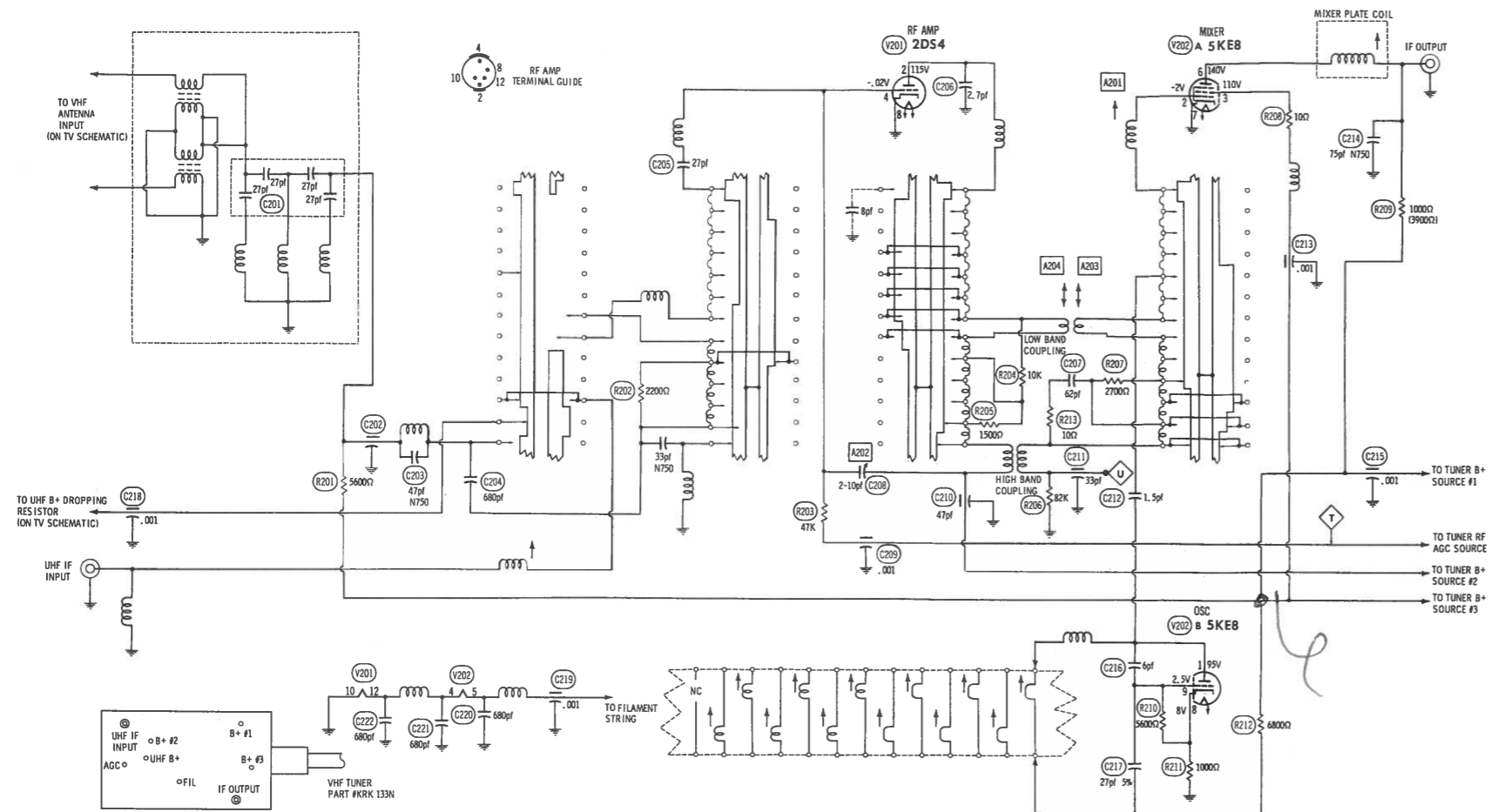
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UHF TUNER KRK- 120PA

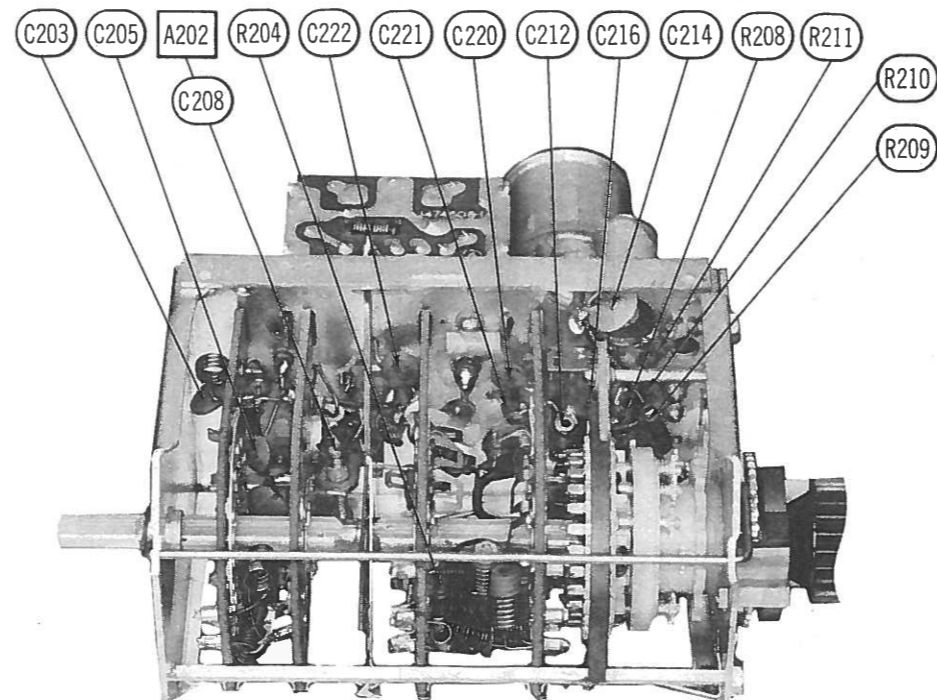
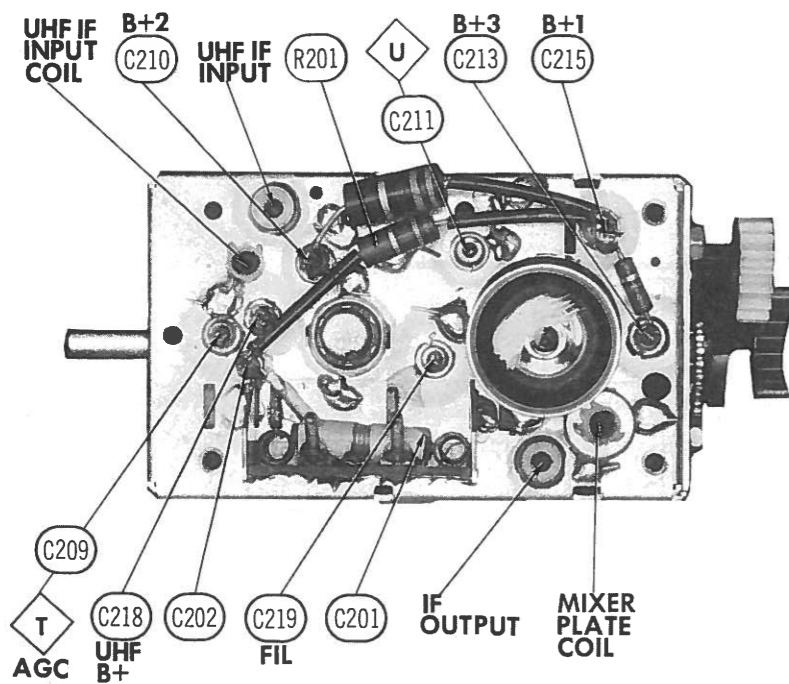


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UHF TUNER KRK-120WP



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VHF TUNER KRK-133N

VHF TUNER ALIGNMENT INSTRUCTIONS

OSCILLATOR ADJUSTMENTS

The oscillator for each channel is preset by means of the fine tuning control. Adjust fine tuning for best picture and sound on each 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 U. 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 U, low side to ground.	A201	Adjust A201 and 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.	A202	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3. "	See Chart	See Chart	12 thru 7	Vert. Input to Point U, low side to ground.		Decrease bias. Check channels 7 thru 12 and make compromise adjustments by expanding or compressing appropriate coils.
4. Across antenna terminals with 120Ω in each lead.	85 MC	83.25MC 87.75MC	6	Vert. Input to Point U, low side to ground.	A202, A203	Adjust A202, A203 and expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
5. "	See Chart	See Chart	5 thru 2	Vert. Input to Point U, low side to ground.		Check channels 2 thru 6 and make compromise adjustment by expanding or compressing appropriate coils if necessary.

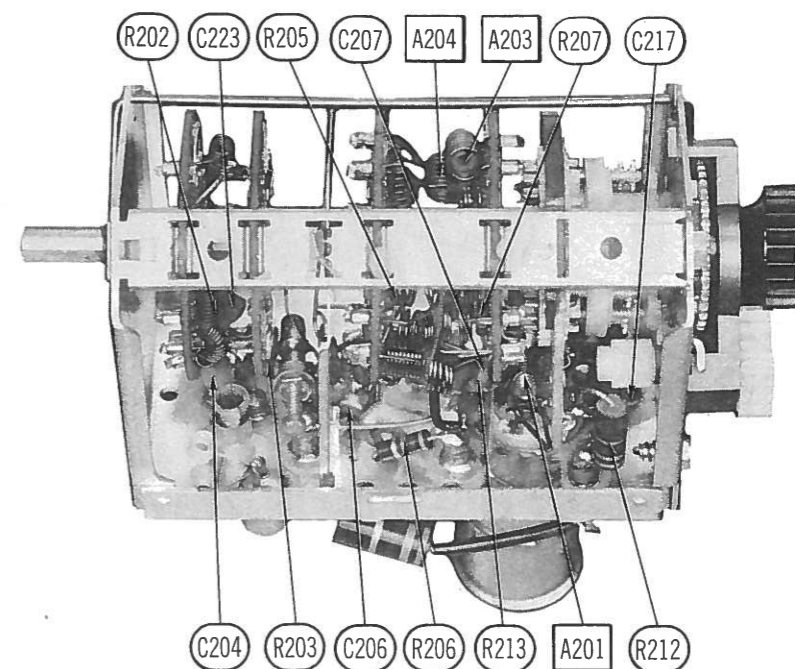
CHANNEL & FREQUENCY CHART

SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SOUND VIDEO
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 INSTRUCTIONS

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



VHF TUNER PARTS LIST

TUBES

♦ AMPEREX ♦ GENERAL ELECTRIC ♦ RCA ♦ SYLVANIA ♦					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	2DS4	V202	Mixer - Osc.	5KE8

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		DI-27	DD-270		CCD-270	GP427	10TS-Q27
B	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
D	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C202								
C203	47 N750			DTN-47	CY601YJ470K	CCTN-470	CN7447	10TCU-Q47
C204	680		DI-680	DD-681	JBY601YP681K	CCD-681	GP368	10TS-T68
C205	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C206	2.7							
C207	62		DI-56	DD-560		CCD-550	GP456	10TS-Q56
C208	2-10							
C209	.001		EF-001	MFT-1000		CCF-102	CT280A	
C210	47							
C211	33							
C212	1.5							
C213	.001		EF-001	MFT-1000		CCF-102	CT280A	
C214	75 N750			DTN-75		CCTN-750	CN7475	10TCU-Q75
C215	.001		EF-001	MFT-1000		CCF-102	CT280A	
C216	6			DD-060				10TS-V60
C217	27 5%		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C218	.001		EF-001	MFT-1000		CCF-102	CT280A	
C219	.001		EF-001	MFT-1000		CCF-102	CT280A	
C220	680		DI-680	DD-681	JBY601YP681K	CCD-681	GP368	10TS-T68
C221	680pf		DI-680	DD-681	JBY601YP681K	CCD-681	GP368	10TS-T68
C222	680		DI-680	DD-681	JBY601YP681K	CCD-681	GP368	10TS-T68
C223	33 N750			DTN-33	CZ601UJ330K	CCTN-330	CN7433	10TCU-Q33

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.

WIRING DATA

High Voltage Lead	Use BELDEN No. 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
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8484 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

TUBES

♦ AMPEREX ♦ GENERAL ELECTRIC ♦ RCA ♦ SYLVANIA ♦					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	2DS4	V5	Audio Det.	6HZ6
V202	Mixer - Osc.	5KE8	V6	Audio Output	12FX5
V1	1st Video IF Amp.	4EH7	V7	Vert. Mult.-Vert. Output	15KY8
V2	2nd Video IF Amp.	4JC6	V8	Horiz. Mult.	8FQ7
V3	Video Output-Noise Inverter	11LQ8	V9	Horiz. Output	22JF6
V4	1st Sound IF - Sync Amp. - Sync Sep.	6GH8A	V10	Damper	17CK3
			V11	HV Rectifier	1G3GT/1B3GT

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	RCA Victor PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V12	20TP4		20TP4		

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	
Q301	S2020	UHF Oscillator		GE-11	TR-24	SK-3019	
Q1	3505	AGC Keying	DS-72	GE-10		113398	NPN
Q2	2450	Sound IF	DS-74	GE-11	TR-22	118713	NPN
						116079	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.
X1	.42A	113998 (1N3194)	GE-504A	8D4 or 5A4-D	1N2070 or 1N540	SK-3016 or SK-3017A	F-4 or 40C
X2		112524	1N60	1N60			
X3		116052	1N60	1N60			
X4		116052	1N60	1N60			
X5		109474	6GC1	DD04			
X6		116052	1N60	1N60			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	160 200V	121781						
B	375 200V	(372187-37)						
C	150 175V							
D	5 175V							

RCA VICTOR CHASSIS KC5158B/C

FOLDER 3

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.
C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C84 C85	62 5% N750 14 N075 .001 5 ±.25 NPO 5 ±.25 .1 600V 68 5% N750 680 10% .001 .001 .0018 10% 620 10% 22 5% N220 5 ±.25 NPO .0022 68 N1500 .0022 .27 200V 10% 150 5 ±.5 NPO .01 .01 .001 .0015 10 N470 .047 100V 68 N750 680 .01 .0068 .22 100V 680 1KV 10% N1500 .1 10V .0047 .22 75V .01 .0047 470 100 N1500 .0039 .027 200V 10% .047 .0027 1KV 10% .022 600V 10% .022 100V .01 600V 56 2KV 5% N2200 68 10% N750 820 10% .0018 10% .056 100V .0033 680 180 5% N750 .0039 10% 270 5% N750 100 N1500 560 10% 220 5% N750 .0033 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C84 C85		DI-1000 NPO-DI 5.0 NPO-DI 5.0 DME6P1 N750-DI 68 DI-680 DI-1000 DI-1000 DI-1800 NPO-DI 5.0 DI-2200 DI-2200 DI-150 NPO-DI 5.0 DI-10000 DI-10000 DI-1000 DI-1500 DD-403 DTN-68 DI-680 DI-10000 DI-6800 DI-4700 DDE2P22 DI-10000 DI-4700 DI-470 DD-392 CPR-2700J CPR-10000J N750-DI 68 DI-820 DI-1800 DDE6S56 DI-3300 DI-680 DDE6D39 CPR-3900J TCN-270 DI-560 N750-DI 220 DI-3300 DDE4S33 DI-10000 DI-10000 DDE4S47 DI-470 DDE6S47 DDE4S47 DDE4S47 DDE6P1 HVD-15 DI-1030 DI-1030 CPR-8200J	TCN-62 DD-102 DTZ-4R7 DTZ-4R7 DTN-68 DD-681 DD-102 DD-102 DD-182 DD-601 DTZ-4R7 DD-222 DD-222 DD-151 DTZ-4R7 DD-103 DD-103 DD-152 DD-403 DTN-68 DD-681 DD-103 DD-682 UK10-104 DD-472 DD-103 DD-472 DD-471 DD-392 CPR-2700J CPR-10000J DTN-68 DD-821 DD-182 DD-332 DD-681 TCN-180 DDE6D39 CPR-3900J TCN-270 DD-561 DTN-220 DD-332 DD-103 DD-103 DD-471 DD-681 DM-102 DM-102 CPR-8200J	JBS601YP102K CZ601CH5R0D CZ601CH5R0D DME6P1 CS601UJ680K JBY601YP681K JBS601YP102K JBS601YP102K JBS601YP102K JBS601YP102K CZ601CH5R0D JBY601YP681K BYX601ZU103M BYX601ZU103M BYX601ZU103M DMF2P22 JBT601YP472K DMF2P22 BYX601ZU103M JBT601YP472K JBT601YP471K DPM6S6S27 DMF6S47 DPM6S6D27 DMF6S22 DME4S22 DME6S1 CS601UJ680K JBY601YP681K JBS601YP182K PKM4S56 JBY601YP332K JBY601YP681K DPM6S6D39 JBY601YP561K CY601UJ221K JBY601YP332K DMF4S33 BYX601ZU103M BYX601ZU103M DMF4S47 JBT601YP471K DMF6S47 DMF4S47 DMF4S47 DMF6P1 JBY601YP681K JBS601YP102K JBS601YP102K CDS6F822T500	CCTN-620 CCD-102 CCTO-050 CCTO-050 6DP-4-104 CCTN-680 CCD-681 CCD-102 CCD-102 CCS-182 CCTO-050 CCD-222 * CCD-222 2DP-4-254 CCD-151 CCTO-050 CCD-103 CCD-103 CCD-102 CCD-152 * CCD-403 CCTN-680 CCD-681 CCD-103 CCD-682 2DP-4-224 * 2HV368 MAG1201 GP247 PVC2022 GP110 GP247 GP347 2HV310 GP239 6DP-2-273 6DP-3-473 6DP-1-272 DMF6S22 4DP-2-223 6DP-1-103 * CCTN-680 CCD-821 CCS-182 4DP-3-563 CCD-332 CCD-681 6DP-1-392 CCTN-271 * CCD-561 CCTN-221 CCD-332 4DP-2-333 CCD-103 CCD-103 4DP-3-473 CCD-471 6DP-3-473 4DP-3-473 4DP-3-473 6DP-4-104 CCD-681 CCD-102 CCD-102 MS-282	GP210 CNO547 CNO547 6PS-P10 CN7468 GP368 GP210 GP210 GP218 GP360 * CNO547 GP222 2DV468 * GP315 CNO547 GP110 GP110 GP210 GP215 * GP140 CN7468 GP368 GP110 GP268 PVC2022 2HV368 MAG1201 GP247 PVC2022 GP110 GP247 GP347 2HV310 GP239 6PS-S27 6PS-S47 6PS-D27 6PS-S22 4PS-S22 6PS-S10 * GP382 GP218 PVC4056 GP233 GP368 CN7318 PVC6239 CN7327 2HV310 GP356 CN7322 GP233 PVC6133 GP110 GP110 4PS-S47 GP347 6PS-S47 PVC6147 4PS-S47 4PS-S47 6PS-P10 10TS-T68 5GAB-D10 5GAB-D10 MS-282	10TS-D10 10TCC-V50 10TCC-V50 10TS-Q68 10TS-T68 10TS-D10 10TS-D10 10TS-D18 10TS-T60 10TCC-V50 10TS-D22 10TS-D22 2PS-P25 10TS-T15 10TCC-V50 10TS-S10 10TS-S10 10TS-D10 10TS-D15 10TCT-Q10 5GA-S40 10TCU-Q68 10TS-T68 10TS-S10 10TS-D68 2PS-P22 HY320 10TS-D47 T273 T272 7516-E 7514-E 6176 6132 74F276AP 6132 23A225RPC 72F274AP 7119-W 74F826AP 74F826AP 5248 A T234 T960 T960 TE234 T960 T960 6PS-P10 10TS-T68 5GAB-D10 5GAB-D10 MS-282

* 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				
			RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume/Master On-Off Switch	1meg	122534 (1472207-43)	F2-1meg, SFS212, KR-1	A47-1meg-Z, RS-3/16, SWE-12 or (NP-1meg-Z, SE-F-400, NWE-12)	B13-137, SK9, 76-1 or (BU1, CF26, SS4, GC)*	RU16A, SL35, IS875, US41 or (UA16A, SD875, US41) or (U53, DS37, US26)
R2	Brightness	100K	122535 (1472200-120)	F1-100K, SFS212	A47-100K-S, RS-3/16 or (NP-100K-S, SE-F-400)	B11-128, SK9 or (BU1, CF13, SS4, DC1)*	RU15L, SL35, IS875 or (UA15L, SD875) or (U41, DS37)
R3	Horiz. Hold	50K	121778 (1472241-9)	F1-50K, SNK200	A47-50K-S, RN-3, TT-2 or (NP-50K-S, NML-A-300, TT-2)	B11-123, TM4 or (BU1, CF12, SS8)*	PTA54L or (RU54L, SL37, SN1625) or (UA54L, SN1625)
R4	Contrast	500Ω	121777 (1472241-10)	F5-500, SNK200	NP-500-V, NML-A-300, TT-2	B17-103, TM4 or (BU1, CF50, SS8)*	RU52R, SL37, SN1625 or (UA52R, SN1625)
R5	Vert. Hold	750K	118504 (1472241-4)	F1-750K, SNK200	A47-750K-S, RN-3, TT-2 or NP-750K-S, NML-A-300, TT-2)	B11-136, TM4 or (BU1, CF84, SS8)*	RU754L, SL37, SN1625 or (PTA754L) or (UA16L, SN1625)
R6A B C D R7	Vert. Size (Height) Vert. Linearity Sync Stabilizer AGC Width	5meg 350K 4000Ω 7500Ω 750K	121774 (1472894-2) 121773 (1472239-6)	 F3-1meg, SNK010, AK-38	 NP-1meg-V, NML-A-300, TT-2	 B17-137, TM4 or (BU1, CF85, SS8)*	 RU16R, SL37, SN281

* "SNAPTROL"

PARTS LIST AND DESCRIPTION (CONTINUED)

(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.

RESISTORS (Power and Special)									
ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	RCA Victor PART No.			IRC PART No.	WORKMAN PART No.	RCA Victor PART No.
R29 R74 R75 R77	5100Ω 3W Thermistor (30K Cold) V.D.R. † 110V @ 1ma Thermistor (1.5meg, Cold)	PW5-5000	3G-5K GM-33K	113420 118740	R82 R88 R105 R107	V.D.R. † 320V @ 1ma V.D.R. † 48V @ 1ma V.D.R. † 320V @ 1ma 680Ω 3W	PW5-700	5W-SQ-700	118742 118506 118742 115628

† Voltage Dependent Resistor

COILS (RF-IF)						
ITEM No.	USE	REPLACEMENT DATA				
		RCA Victor PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.
L1A B L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20	39.75MC Trap 47.25MC Trap RF Choke (7 turns) Video Input (19 turns) 1st Video IF 2nd Video IF 3rd Video IF Peaking (36uh) Peaking (330uh) RF Choke (2.7uh) Peaking (330uh) 4.5MC Trap Peaking (270uh) Sound Takeoff Sound Interstage Quadrature RF Choke (8.2uh) RF Choke (8.2uh) Line Choke (87uh) Line Choke (87uh)	114313 114315 114314 118698 109158 121779 118056 118710 107463 113280 118736 115427 118744 118738 118410 107385 107385 115504	17-3418 19-3036 19-3330 19-1002 19-3330 20-1055 19-1009 19-1009	TV-180 BC-875 SW-630 BC-875 BC-874 BC-568 BC-568	7516-E 7514-E 6176 6132 74F276AP 6132 23A225RPC 72F274AP 7119-W 74F826AP 74F826AP 5248 A	T273 T272 T301 T349 T857 T349 TE234 T960 T960

A Two (2) required to replace original part.

COILS (SWEEP CIRCUITS)							
ITEM No.	USE	REPLACEMENT DATA					
		RCA Victor PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.
L19 L20	Horiz. Stabilizer (Frequency) Horiz. Linearity	114486 118712		6213 ①			TA140 ①

① Position for proper circuit operation.

FILTER CHOKE							
ITEM No.	RATINGS		REPLACEMENT DATA				
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.
L21	.42ADC	17.2	.227 H	115426 (1472728-2)	C-4133 ①	C-2708 ①	20C137 ①

TRANSFORMER (POWER)							
ITEM No.	RATING	REPLACEMENT DATA					NOTES
		PRIMARY	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	
T1	117VAC @ 1.55 A AC	Tapped @ 88VAC @ .38A AC Tapped @ 135VAC @ .42A DC	122537 (06198-503)				

TRANSFORMERS (SWEEP CIRCUITS)						
ITEM No.	USE	REPLACEMENT DATA				
		RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.
T2 T3 T4	Vert. Output Yoke (Horiz. 24mh) Horiz. Output	121783 (1460634-5) 122394 (906250-502) 121780 (906243-501)	MDF-143	DY-57AT	Y-66	YT-103-1

* COMPONENT CONNECTION DATA

ORIGINAL REPLACEMENT ↓	HV TRANSFORMER					VERTICAL OUTPUT					YOKE					YOKE PLUG				
	Original Connections					Original Connections					Original Connections					TO YOKE TERMINAL				
MERIT											1	2	3	4	5	6	7	8		
STANCOR											1	2	3	4	5	6	7	8		
THORDARSON											1	2	3	4	5	6	7	8		
TRIAD											1	2	3	4	5	6	7	8		

- Note 1. Remove Orange lead, 82pf Capacitor and Vertical Damping Resistors.
Note 2. Remove Yellow lead, 68pf Capacitor and Vertical Damping Resistors.
Note 3. Remove 75pf Capacitor and yoke plug. Rewire yoke plug as shown above.
Note 4. Jumper yoke plug pins #6 and #7.
Note 5. Use original 33pf Capacitor and connect between Terminals #3 and #6.
Note 6. Use original 33pf Capacitor and connect between Terminals #2 and #6.
Note 7. Use original 33pf Capacitor and connect between Terminals #4 and #7.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	6174Ω	3-4Ω	118409 (1472666-2)	A-3032 ①	A-3856 ①	22S25	S-48X	① Drill New Mtg. Hole (s) ② Cut & Tape Tap

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		RCA Victor PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3" x 5" PM 3-4Ω	112713	P3X5X3	35A05	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA				
		PART No.		BUSS PART No.		LITTELFUSE PART No.
F1	Circuit Breaker Break Current 1.75 Amp. 1 1/2" length of #34 Fuse Wire	113950 (945830-5)				8151.75
F2						FA2

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	RCA Victor PART NO.	REPLACEMENT DATA
PC1	Antenna Isolation	2.2meg, 470pf	109956	Centralab RC-471
PC2	Antenna Isolation	2.2meg, 470pf	109956	Sprague AC1-1
PC3	Vertical Integrator	68K, 190pf, .001, .0018	114916 (973947-8)	Centralab RC-471 Sprague AC1-1

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M1 M2	VHF Tuner UHF Tuner	KRK133N KRK120MA/NA/PA/WP/XP	
M3A M4 M5	VHF Antenna (L.H.) VHF Antenna (R.H.) UHF Antenna Magnetic Printed Circuit Board	10EB111 10EB116 10EB109 114504 121811	JFD Replacement TA-461 JFD Replacement TA-466 JFD Replacement TA-432 Centering (Set of 2) Part of Yoke Video & Deflection (Less Tubes)

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Handle, Models AJ175M/W	121917	Knob - UHF Channel Selector & Fine Tuning, Models AJ157M/J	121175
Handle, Model AJ253J	122906	Knob - Channel Selector, Models AJ157M/W	121176
Handle, Model AJ153E	122907	Mask - Model AJ157M	121929