

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS:

Tune in a TV station and set all controls for normal operation. Connect a jumper across the horizontal stabilizer coil. Connect a jumper from point \odot to ground. Set the horizontal hold (Fine) control R7 to the center of its range. Adjust the horizontal hold (coarse) R8 until the

picture appears to float back and forth across the screen. Remove the jumper from across L12 and adjust the horizontal stabilizer coil slug B1 until the picture again appears to float. Remove the jumper from point \odot . Check to see if the picture remains in sync when switching from channel to channel.

DISASSEMBLY INSTRUCTIONS

DISASSEMBLY INSTRUCTIONS

1. Remove all knobs. Remove cabinet back held by 11 screws. Disconnect antenna leads.
2. Unplug high voltage lead, picture tube, socket, yoke, speaker leads and ground lead from picture tube retainer to high voltage cage.
3. Remove 1 screw from tuner, 1 screw at upper rear and 2 screws from bottom of chassis. Remove chassis.

PICTURE TUBE REMOVAL

1. Follow steps 1 through 3 of disassembly instructions.
2. Lay cabinet face down on a soft protective surface. Loosen retainer bolt. Remove 4 bolts from corner brackets of picture tube. Remove picture tube.

704 FOLDER 1

SET

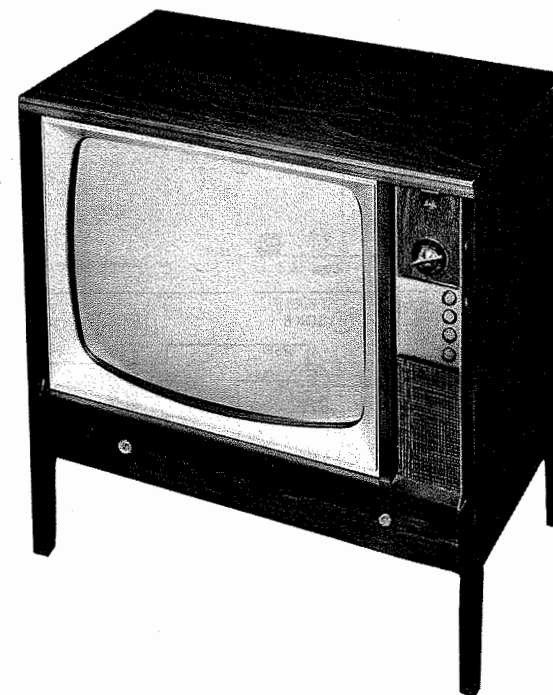
CATALINA MODELS 122-1130, -1131, -1135, -1136, -1138, -1140, -1141

PHOTOFACT® Folder

with CIRCUITRACE®



CATALINA MODELS 122-1130, -1131, -1135, -1136, -1138, -1140, -1141



MODEL 122-1130

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Catalina Models 122-1130, -1131, -1135, -1136, -1138, -1140, -1141
SUPPLIER	White Stores, Inc. Wichita Falls, Texas
TYPE SET	Television Receiver
TUBES	VHF - Fourteen, UHF - Fifteen
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 UHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
	RATING 120 Watts, 1.4 Amp. @117 Volts AC

SERVICING IN THE FIELD

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 4.7 Ω fusible resistor is used for low voltage power supply protection. (For location, see Chassis Top View.)

VHF OSCILLATOR ADJUSTMENT

To touch up VHF Oscillator, adjust osc. slug (one for each channel). It may be necessary to adjust over-all oscillator trimmer for best results.

AGC

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

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished

by the proper setting of the Horizontal Stabilizer Coil & Horizontal Hold Coarse. (See "Tube Placement Chart" for location.)

WIDTH

The width may be varied by adjusting a metallic sleeve, located between the yoke and the picture tube neck.

BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Buzz Control for MINIMUM buzz and maximum sound. (See "Tube Placement Chart" for location.)

CENTERING

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

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



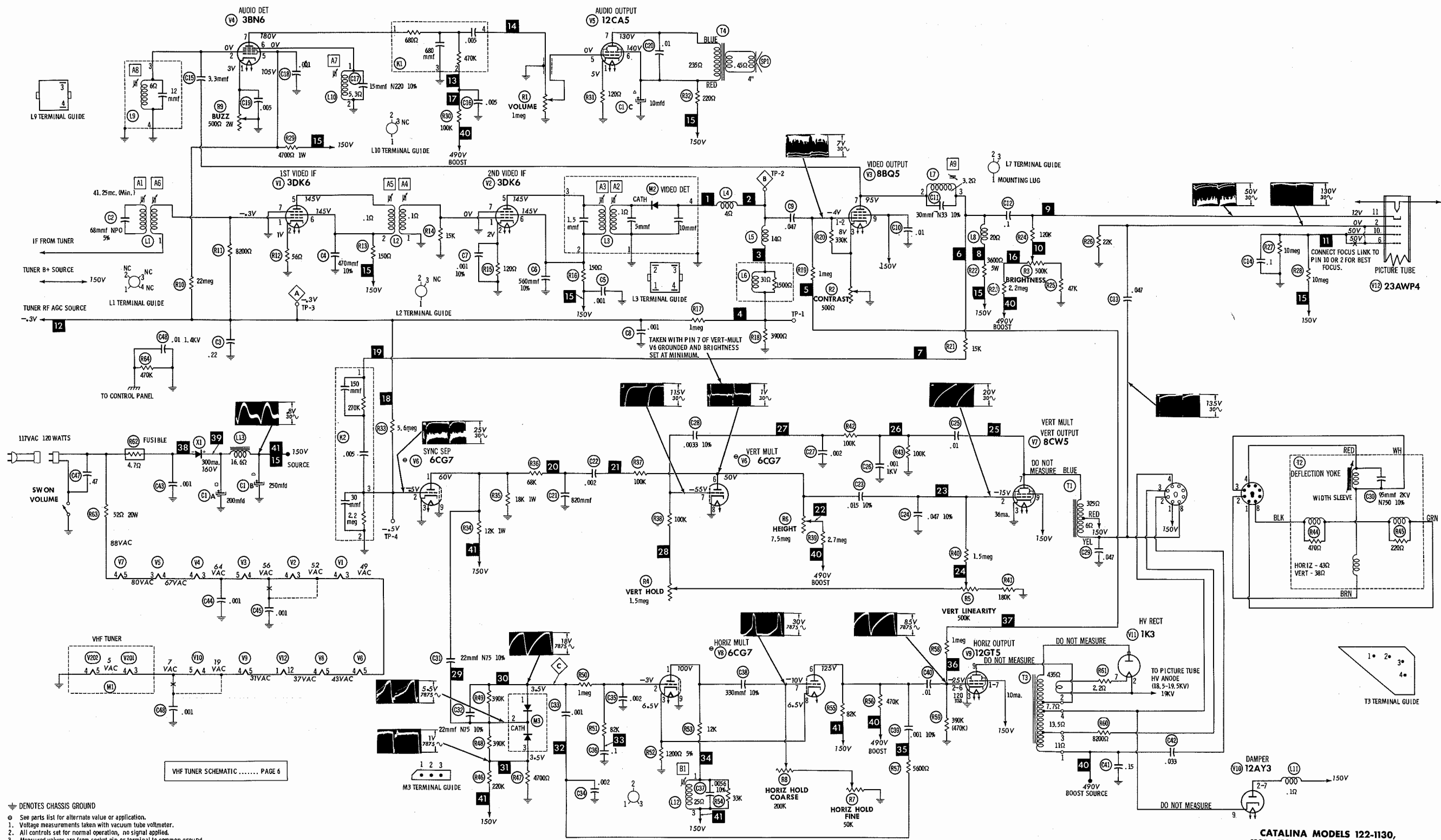
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DATE 7-64 SET 704 FOLDER 1

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SET 704 FOLDER 1



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

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FOLDER 1

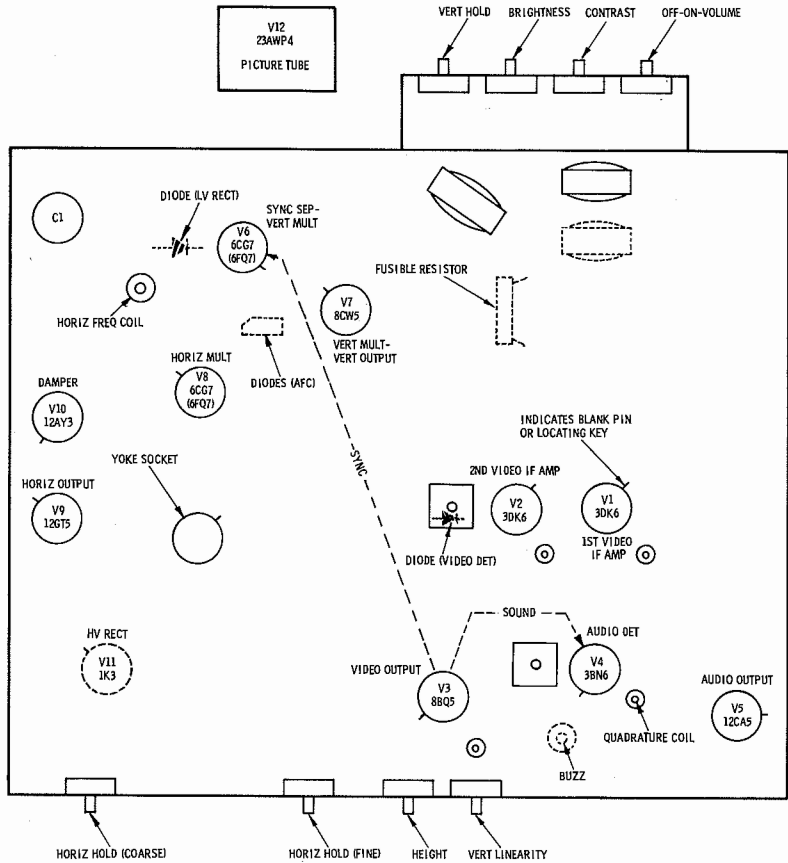
RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3DK6	1meg	56Ω	9Ω	10Ω	† 166Ω	† 166Ω	0Ω		
V2	3DK6	.1Ω	120Ω	10Ω	11Ω	† 166Ω	† 166Ω	0Ω		
V3	8BQ5	NC	330K	400Ω	11Ω	13Ω	NC	† 3600Ω	NC	† 16Ω
V4	3BN6	340Ω	6Ω	13Ω	14Ω	† 4700Ω	5.3Ω	† 570K		
V5	12CA5	120Ω	NC	17Ω	14Ω	30K	† 236Ω	† 470Ω		
V6	6CG7	† 10K	1.8meg	0Ω	8Ω	9Ω	† 7.5meg	1.6meg	0Ω	0Ω
V7	8CW5	NC	1.5meg	0Ω	19Ω	17Ω	NC	† 340Ω	NC	† 16Ω
V8	6CG7	† 12K	1.5meg	1200Ω	7Ω	8Ω	† 82K	86K	1200Ω	0Ω
V9	12GT5	NC	NC	0Ω	4Ω	6Ω	390K	† 16Ω	NC	† 7.7Ω
V10	12AY3	NC	† 16Ω	NC	4Ω	2Ω	TP	NC	NC	500K
V11	1K3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 442Ω
V12	23AWP4	6Ω	22K	NC	NC	NC	NC	NC	NC	NC
					Pin 10 # 5meg	Pin 11 200K	Pin 12 7Ω			
V201	2GK5	0Ω	1meg	2Ω	1Ω	† 1216Ω	0Ω	0Ω		
V202	5CG8	15K	† 6616Ω	0Ω	0Ω	1Ω	† 3316Ω	† 6616Ω	0Ω	100K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
† MEASURED FROM OUTPUT OF X1.
‡ MEASURED FROM PIN 9 OF V10.

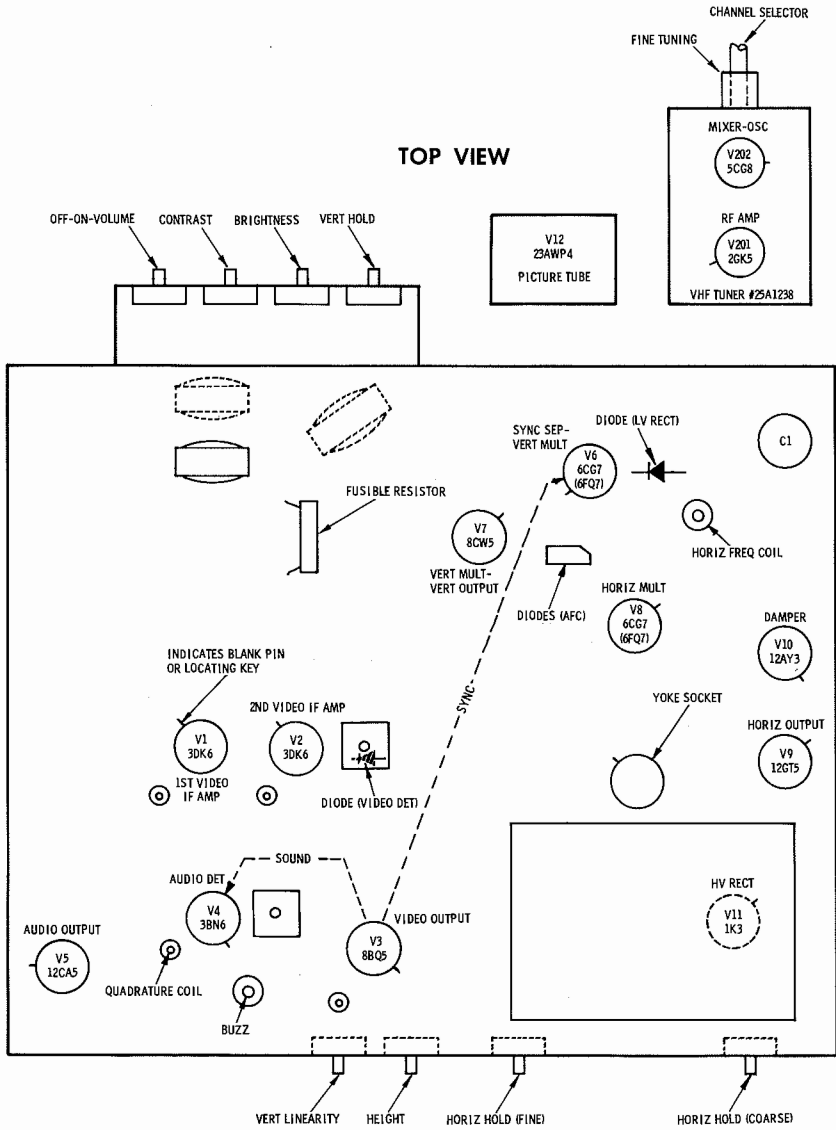
NC NO CONNECTION
TP TIE POINT

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 R82 (Fusible Resistor), X1

SWEEP FAILURE

No raster, has sound V8, V9, V10, V11, V12

No vertical deflection V8, V7

Poor vert. linearity or foldover V6, V7

Poor horiz. linearity or foldover V8, V9, V10

Narrow picture V8, V9, V10, X1

Vert. off freq. V6, V7

Horiz. off freq. V8

LOSS OF PICTURE OR SOUND

No pic, no sound, has raster V1, V2, M2 (Video Det.), V3

No pic, no sound, has snow V201, V202, V1

No pic, has sound, has raster V3, V12

Has pic, no sound V3, V4, V5

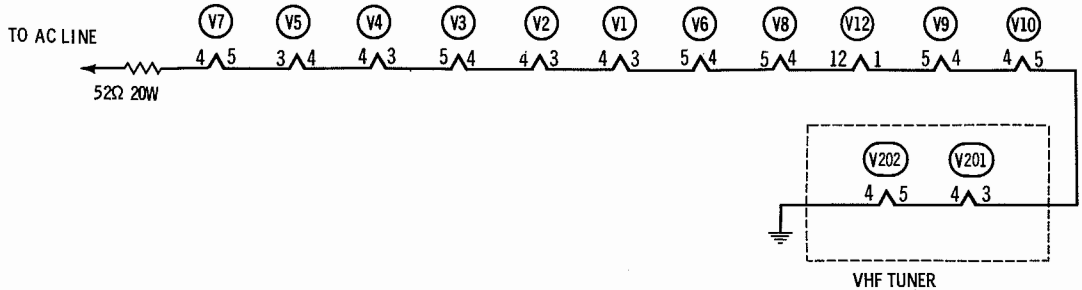
SYNC FAILURE

No vert. sync V6

No horiz. sync V8

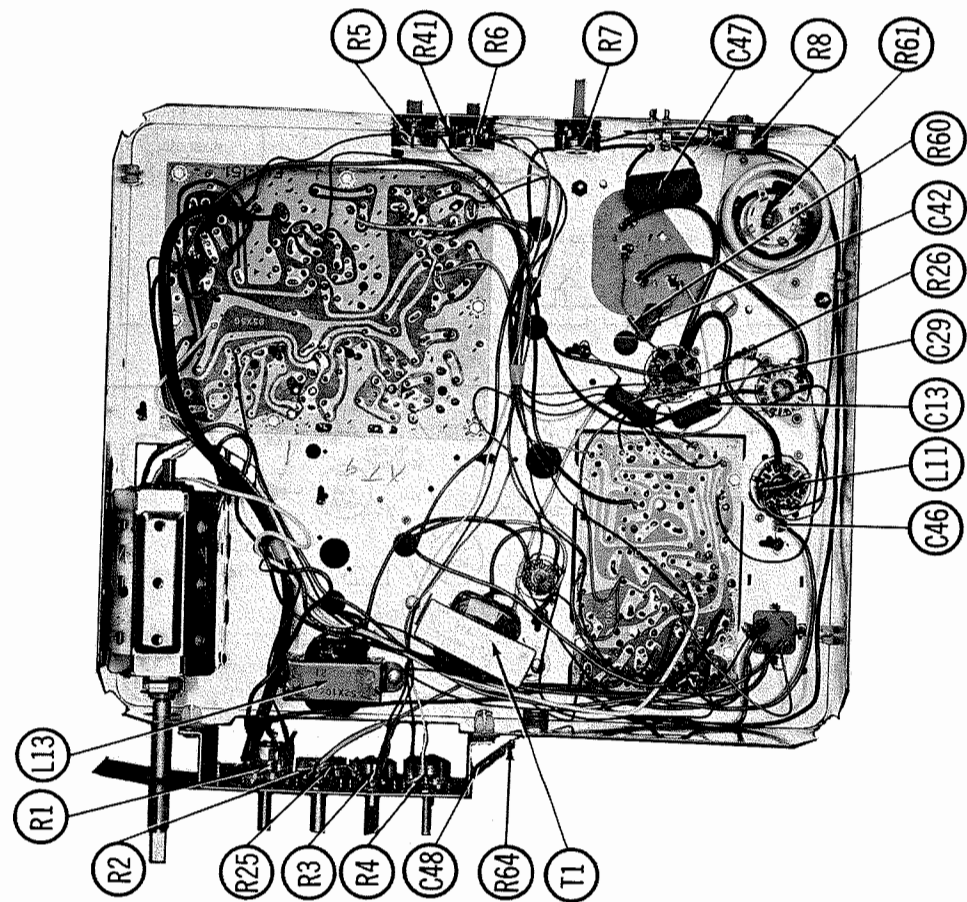
No vert. or horiz. sync V6

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.)

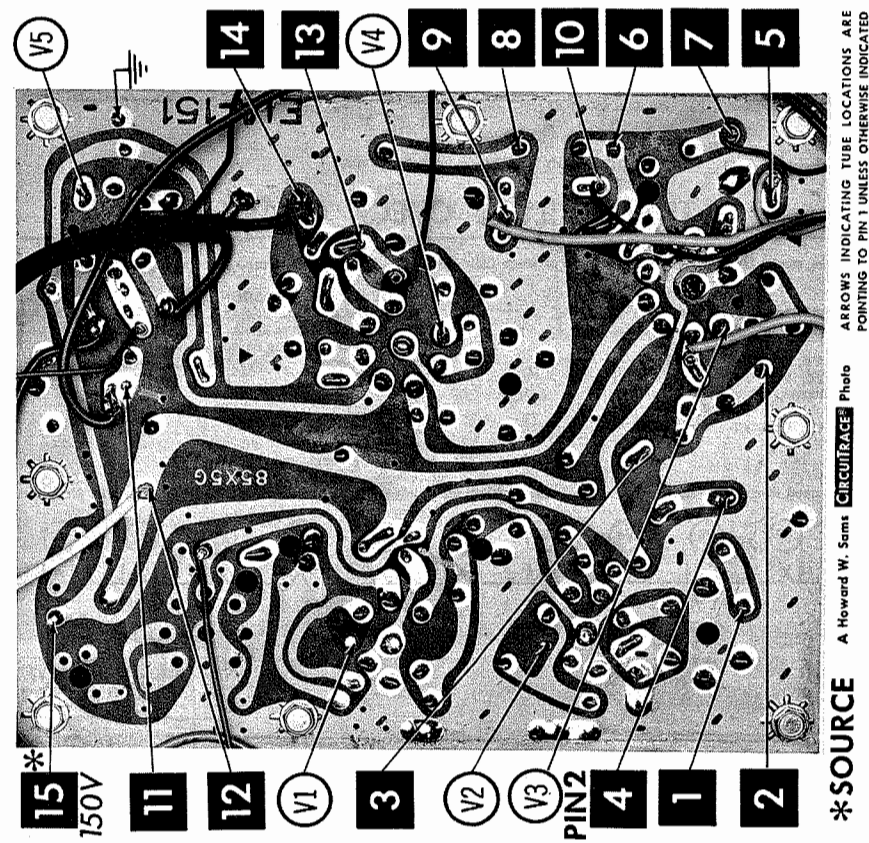


CATALINA MODELS 1131-1135, 1136, 1138, 1140, 1141

FOLDER 1

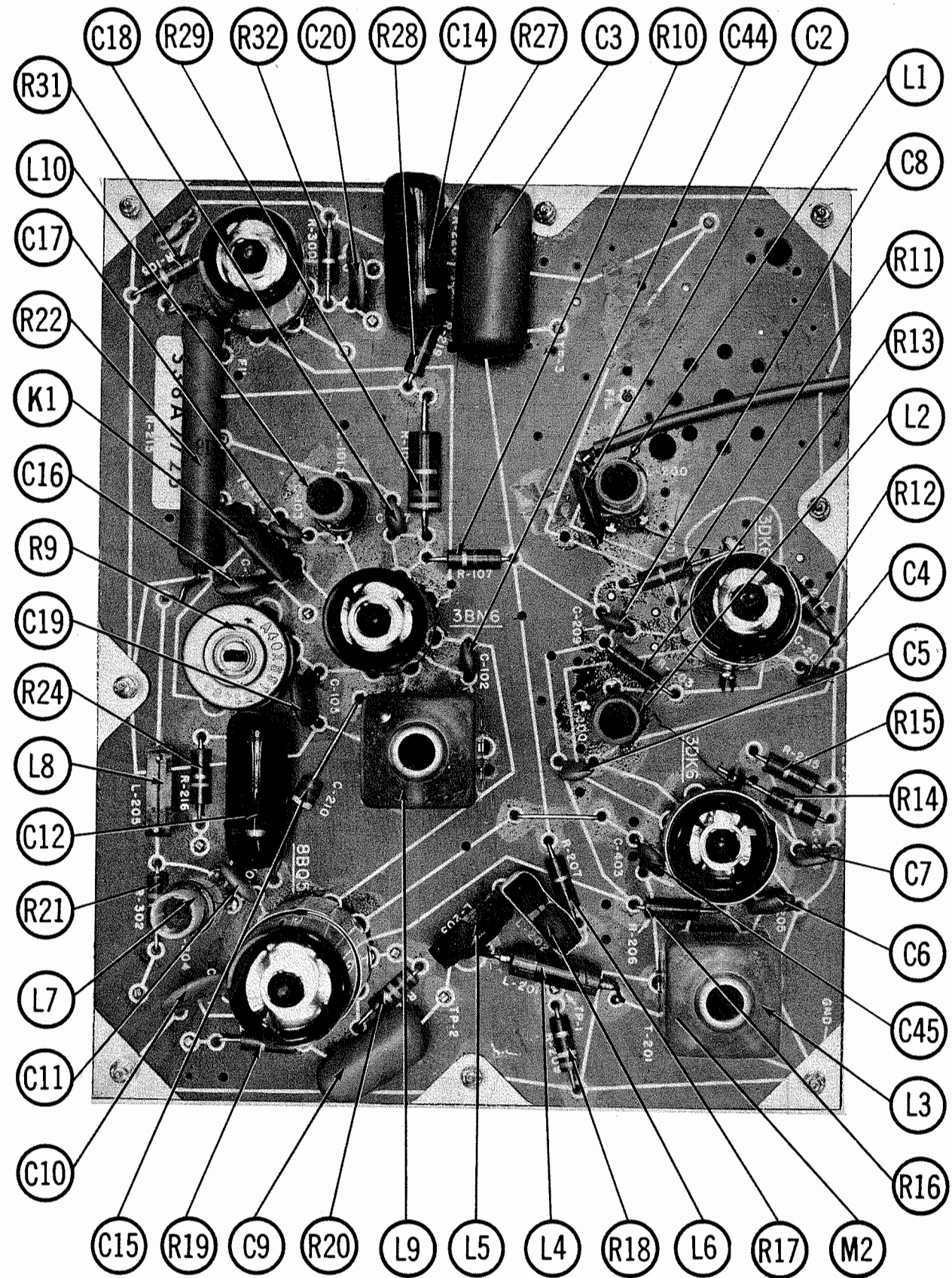


CHASSIS - BOTTOM VIEW



*SOURCE A Howard W. Sams CIRCUITRACE Photo

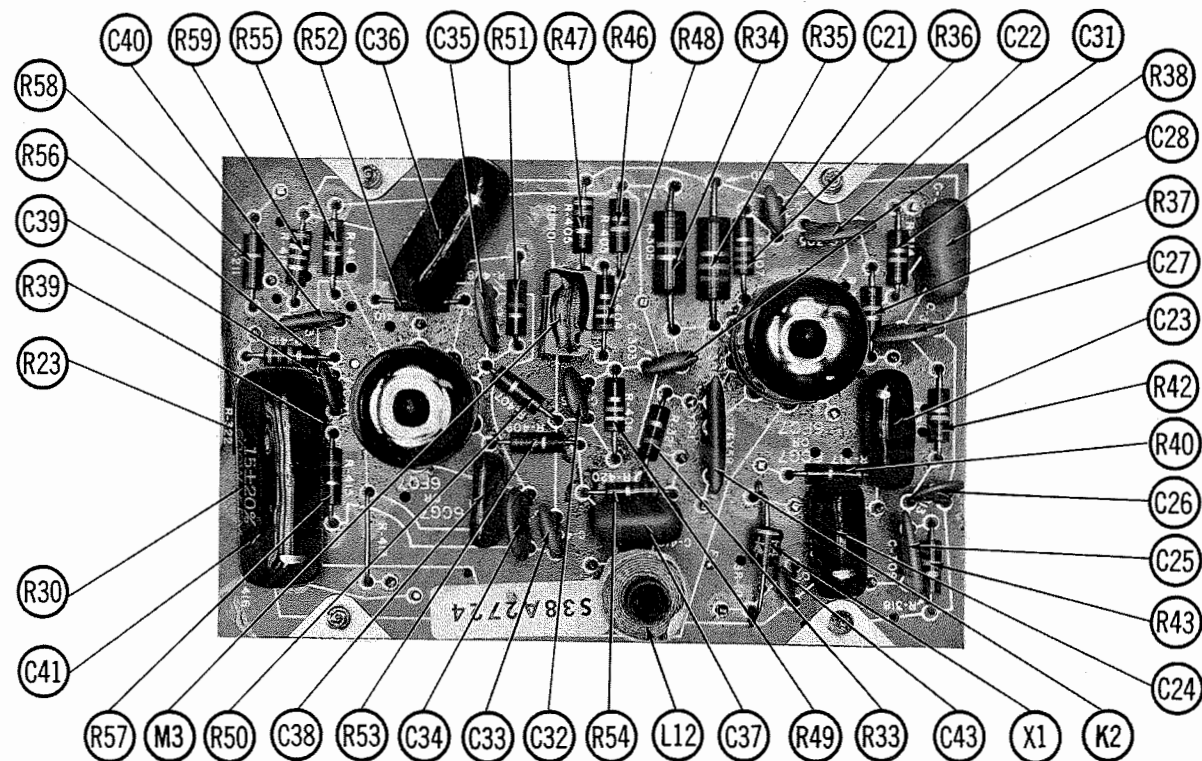
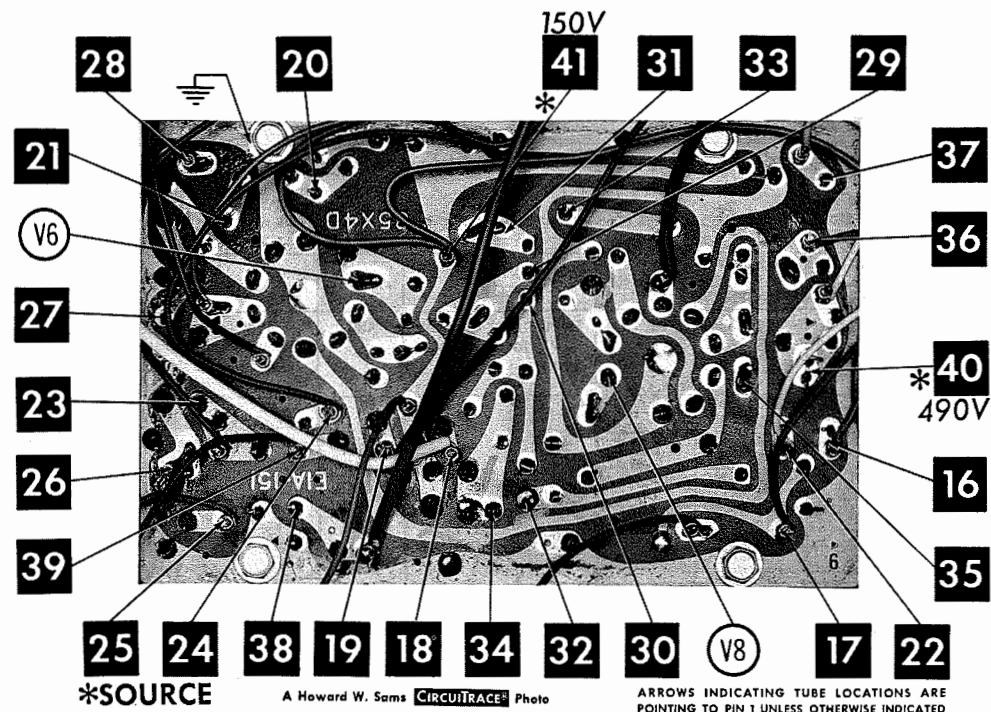
MAIN PRINTED BOARD



MAIN PRINTED BOARD

CATALINA MODELS 122-1130,
-1131, -1135, -1136, -1138, -1140, -1141

FOLDER 1



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 A9.....GENERAL CEMENT #9302, 8806, 8869.... WALSCO #2511, 2544, 2588
Mixer Plate Coll.....GENERAL CEMENT #9302, 9296, 9297.... WALSCO #2511, 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 A) 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.

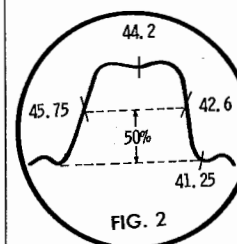
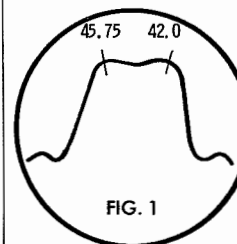
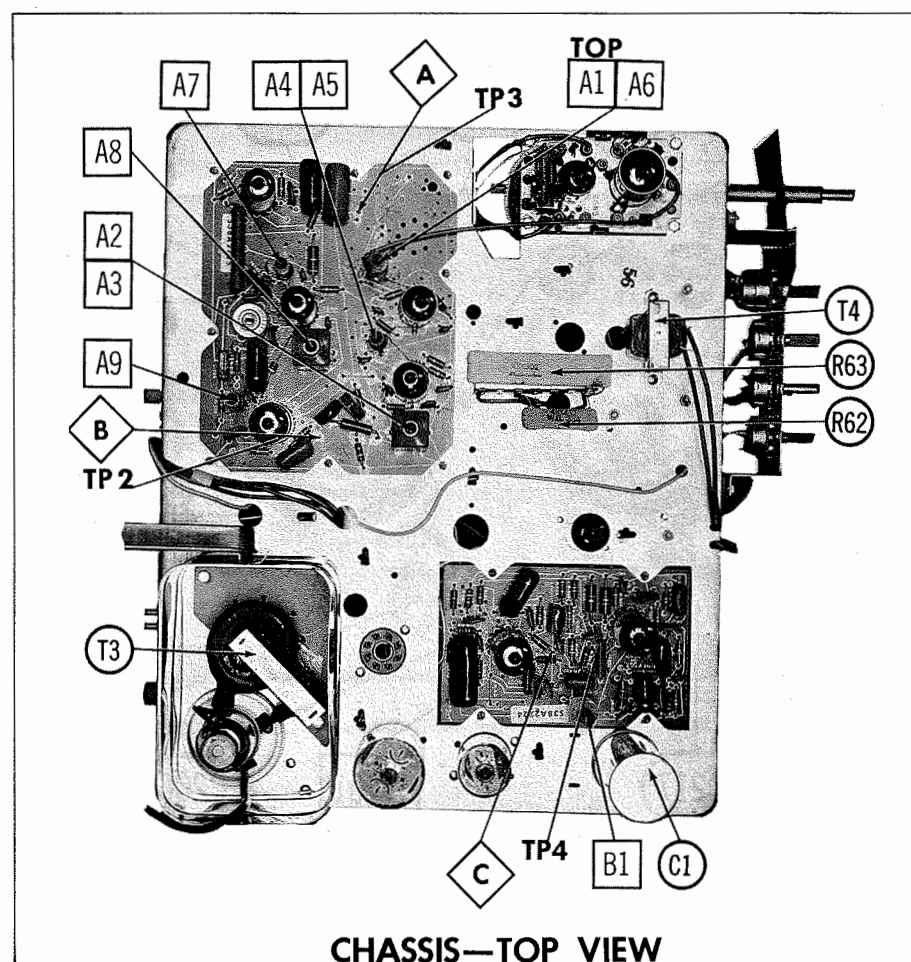
INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point B. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC	A1	Adjust for MINIMUM.
2. Connect vertical input of a scope to point B. Low side to ground.	Connect high side to pin (grid) of V. Low side to ground.	44MC (10MC Sweep)	42.0MC 45.75MC	A2, A3	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point B. Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.6MC 44.2MC 45.75MC	A4, 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 A2 and A3.

SOUND IF ALIGNMENT

Tune in a station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound. Align for maximum undistorted sound with MINIMUM buzz by adjusting A7, A8, Buzz Control. If the hiss disappears during alignment, further reduce the signal strength.

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 A9 for MINIMUM beat interference.



CATALINA MODELS 122-1130,
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FOLDER 1

VHF TUNER ALIGNMENT INSTRUCTIONS

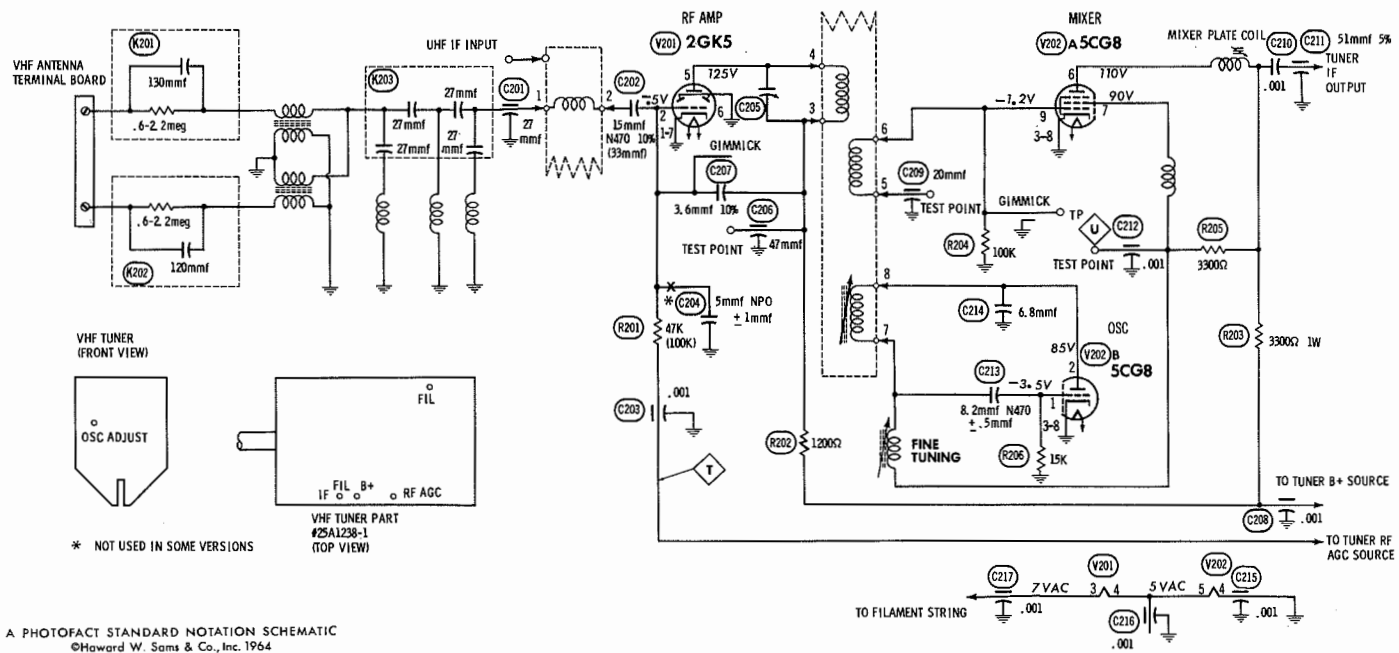
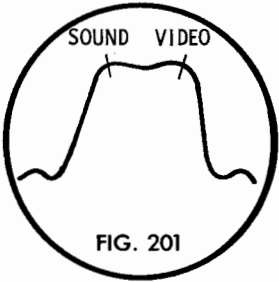
OSCILLATOR ALIGNMENT

Set Fine Tuning to center of its range. Starting with highest channel in area, adjust the appropriate oscillator screw for best picture and sound.

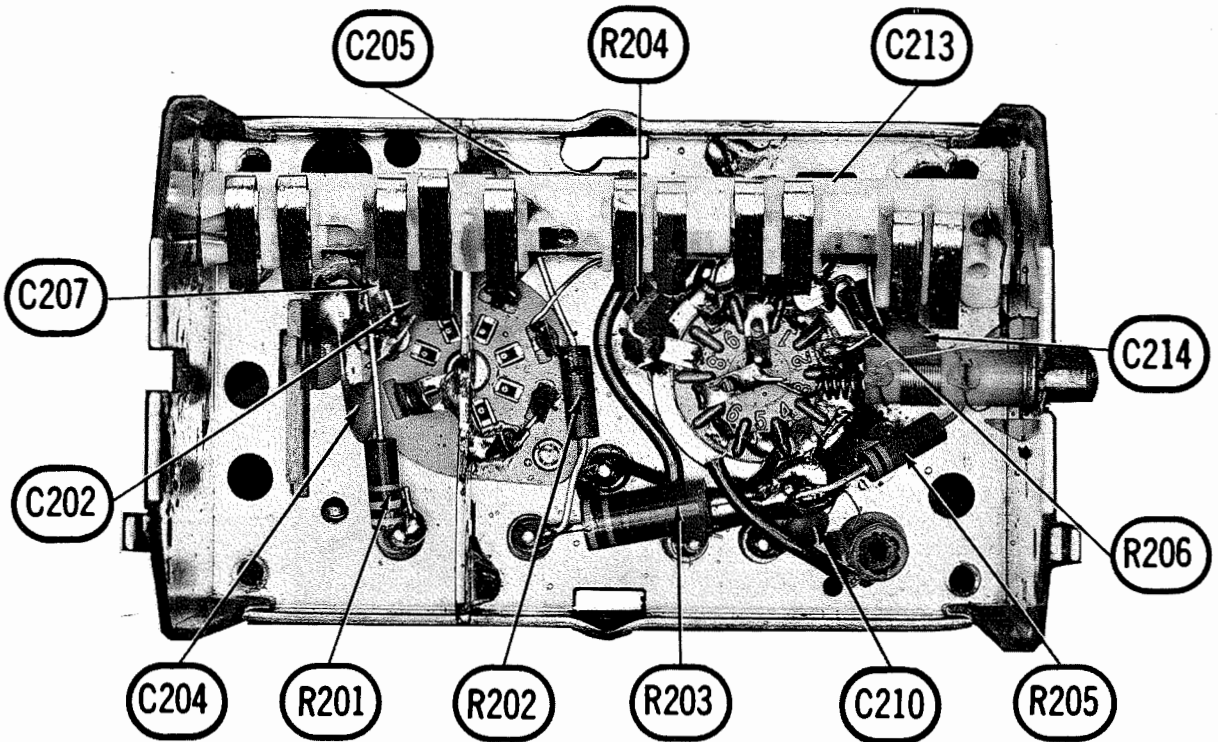
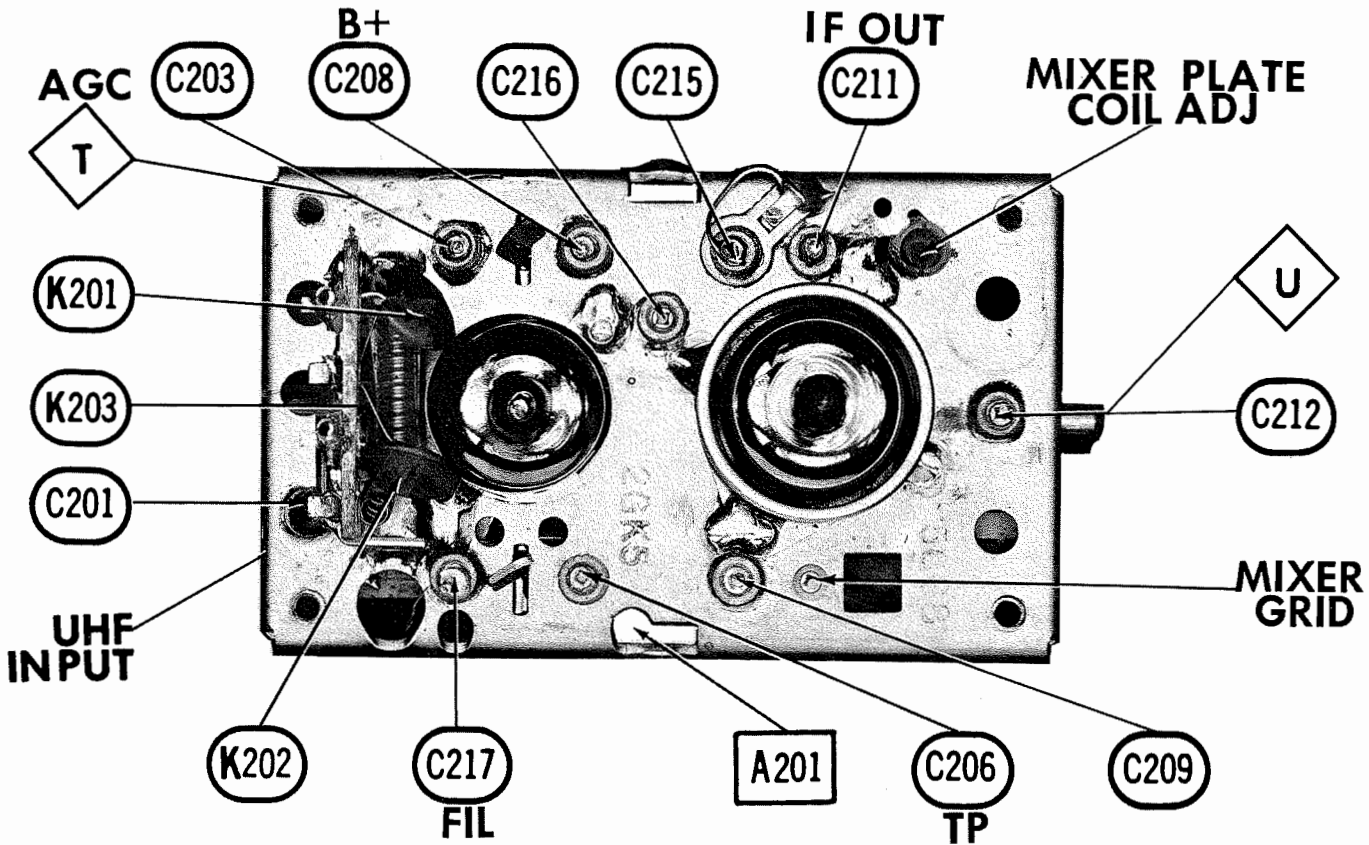
RF & MIXER ALIGNMENT

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 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
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 for maximum gain and symmetry of response similar to Fig. 201 with markers as shown. If necessary expand or compress coils.
	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			



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13 POSITION TURRET-TYPE VHF TUNER 25A1238-1

VHF TUNER PARTS LIST AND DESCRIPTION

TUBES

* AMPEREX * GENERAL ELECTRIC * RCA * RAYTHEON * SYLVANIA *		
ITEM No.	USE	TYPE
V201	RF Amp.	2GK5
V202	Mixer - Osc.	5CG8

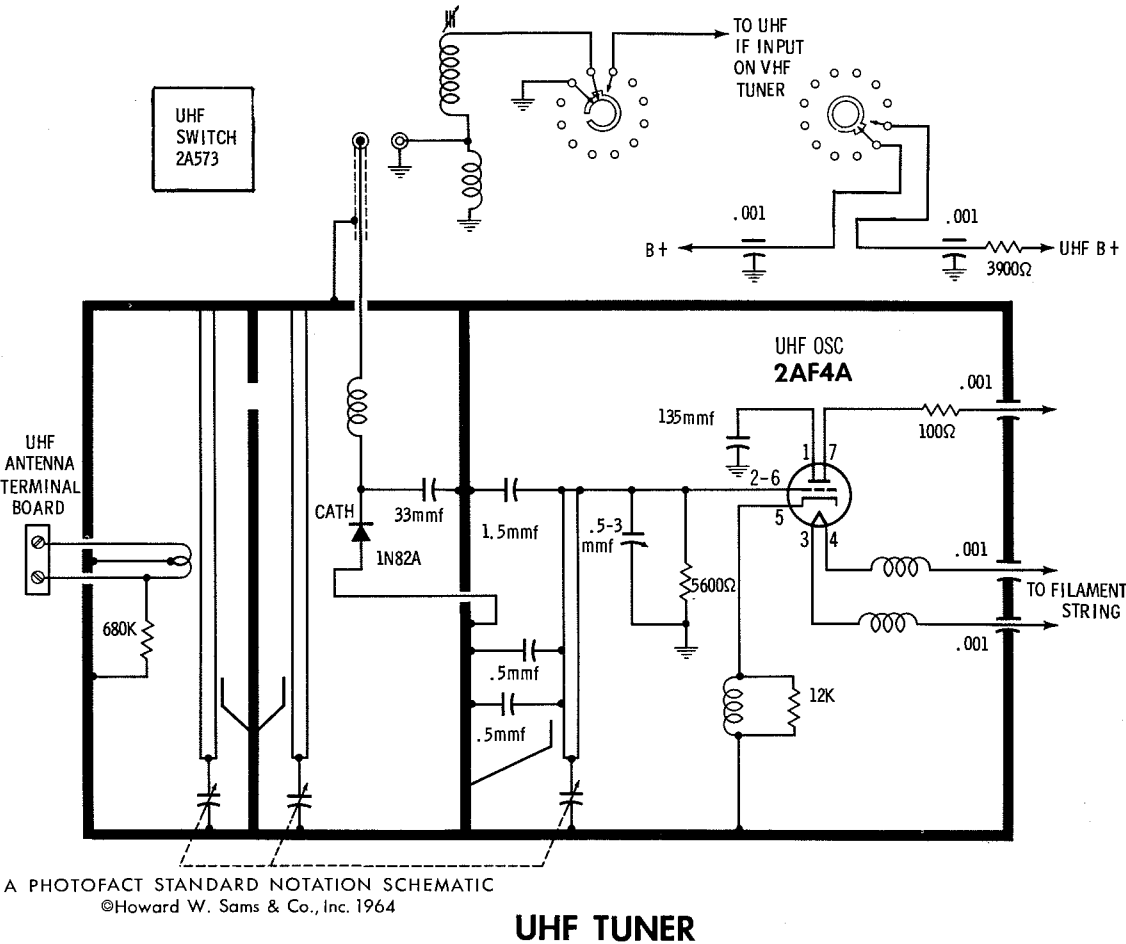
FIXED CAPACITORS

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.
C201	27	(33) †	EF-001 NPO-DI 5.0	MFT-1000 DTZ-4R7	C10V47C	* CCF-102 CCTO-050	CT280A CNO-547	10TCT-Q15 10TCC-V50
C202	15 N470 10%							
C203	.001							
C204	5mmf NPO ±1mmf							
C205	47							
C206	3.6mmf 10%							
C207	.001							
C208	20							
C209	.001							
C210	51 5%							
C211	.001							
C212	8.2mmf N470 ±.5mmf							
C213	6.8mmf	Note 1	NPO-DI 6.8	DTZ-6R8	C10V68C	* CCTO-6R8 CCF-102 CCF-102 CCF-102	CNO-568 CT280A CT280A CT280A CT280A	10TCT-V82 10TCC-V68
C214	.001							
C215	.001							
C216	.001							
C217	.001							

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Note 1. Not used in some versions. † Alternate Value.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	CATALINA PART No.	REPLACEMENT DATA
K201	Antenna Isolation	.6-2.2meg, 130mmf	147-1	
K202	Antenna Isolation	.6-2.2meg, 130mmf		
K203	Antenna Network	27mmf, 27mmf, 27mmf, 27mmf		



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

* AMPEREX * GENERAL ELECTRIC * RCA * RAYTHEON * SYLVANIA *		
ITEM No.	USE	TYPE
V1	1st Video IF Amp.	3DK8
V2	2nd Video IF Amp.	3DK8
V3	Video Output	8BQ5
V4	Audio Det.	3BN8
V5	Audio Output	12CA5
V6	Sync Sep. -Vert. Mult.	6CG7 (6FQ7)*
V7	Vert. Mult. -Vert. Output	8CW5
V8	Horiz. Mult.	6CG7 (6FQ7)*
V9	Horiz. Output	12GT5
V10	Damper	12AY3
V11	HV Rectifier	1K3

* Alternate Value

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	CATALINA PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V12	23AWP4	23AWP4 ①	23BJP4 ①	23AWP4 ②	① Aluminized ② Silver Screen "85"

POWER RECTIFIERS

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS		
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.300A	66X23	A300 or D300 or 1N2083	1N1763 or 1N2862 or 1N3194	40H or F-4

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	CATALINA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	200	200	45X485-A	AFHS3-13-90	CC0129.5	XC3-20	TMT-3447	FP318.8A	TVL-3490
B	250	200	(45X485)		BR50-250		CDB-D-1014		
C	10	200							

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.
C2	68 NPO 5%	#80X98-14	P288N-22	DTZ-68	C10Q68C	2DP-4-224	GEM-468	10TCC-Q68
C3	.22 200V		DI-470	DD-471	FM2F22	CCD-471	GEM-2022	2TM-P22
C4	470 10%		BPD-001	DD-102	JB6747	CCD-471	GP347	10TS-T47
C5	.001		DI-560	DD-561	BYA10D1	CCD-102	B-210	5HK-D10
C6	560 10%		DI-1000	DD-102	JB6756	CCD-561	GP356	10TS-T56
C7	.001 10%		BPD-001	DD-102	JB6D1	CCD-102	GP210	10TS-D10
C8	.001		P288N-047	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C9	.047 200V		BPD-01	DD-503	PM2S47	4DP-3-473	GEM-2147	2TM-S47
C10	.01			DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C11	30 N33 10%							
C12	.1 200V	#47X589	P288N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C13	.047 400V		P488N-047	DD-503	PM4S47	4DP-3-473	GEM-4147	4TM-S47
C14	.1 200V		P288N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C15	3.3mmf							
C16	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C17	15 N220 10%					*		10TCR-Q15
C18	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C19	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C20	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C21	820		DI-820	DD-821	LA10T82-C4	CCD-821	B-382	10TS-T82
C22	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20

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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.

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C23	.015 800V 10%	#80X99-7 #80X99-7	BE8815		PM8815	8DP-2-153	PVC8115	8TM-S15
C24	.047 200V 10%		BE2847		PM2847	4DP-3-473	PVC2147	2TM-S47
C25	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C26	.001 1KV		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C27	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C28	.0035 400V 10%		BE8D33	CF-332	WMF4D33	8DP-1-332	PVC4233	8TM-D33
C29	.047 400V		P488N-047	DD-503	PM4847	4DP-3-473	GEM-4147	4TM-S47
C30	95 N750 10%							
C31	22 N75 10%							
C32	22 N75 10%							
C33	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C34	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C35	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C36	.1 200V		P288N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C37	.0056 400V 10%		BE8D56		PM8D56	6DP-1-562	PVC4256	6PS-D56
C38	330 10%		ADM-15-331	CPR-330J	CF15F331K	DM-15-331K		MS-333
C39	.001 10%		DI-1000	DD-102	JB8D1	CCD-102	GP210	10TS-D10
C40	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C41	.15 600V		P688N-15		PM68P15	6DP-5-154	GEM-6015	6TM-P15
C42	.033 400V		P488N-033	DD-303	PM48S3	4DP-2-333	GEM-4133	4PS-S33
C43	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C44	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C45	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C46	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C47	.47 400V		P488N-47		PM48P47	4DP-6-474	GEM-4047	4TM-P47
C48	.01 1.4KV		DAC-27	DD16-103	HVE16S1	16DP-3-103	JAC-110	BL-S10

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

Catalina Part Number

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			CATALINA PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	1meg	36X442	F2-1meg, SU204, KR-1, or (B-70-S)	B47S-1meg-Z	B13-137, TM5, 76-1 ① or (BU11, CF28, SS1, GC)*	TA18A, US-26 or (RU18A, SL37, SF1000, US-41) or (UA18A, SF1000, US-41) or (U52R) or (U52R)
R2	Contrast	500Ω	40X537	F5-500, SN204		B17-103, TM5 or (BU11, CF50, SS1, DC1)*	TA55L or (RU55L, SL37, SF1000) or (UA55L, SF1000)
R3	Brightness	500K	40X536-1A	F1-500K, SU204, or (B-59)	A47-500K-S, FS-3	B11-133, TM5 or (BU11, CF16, SS1, DC1)*	TA26A or (RU155A, SL37, SF1000) or (UA26A, SF1000)
R4	Vert. Hold	1.5meg	40X535	F2-2meg, SU204, or (B-76)	A47-2meg-Z, FS-3	B13-138, TM5, or (BU11, CF18, SS1, DC1)*	PTA55L or (RU55L, SL37, SN1000) or (UA55L, SN1000)
R5	Vert. Linearity	500K	40X538-2A	TT-59 or (F1-500K, SN010)	B47-500K-S	B11-133, TM4, or (BU11, CF18, SS8)*	PTA55L or (RU55L, SL37, SN1000) or (UA55L, SN1000)
R6	Height	7.5meg	40X539-2	TT-90 or (F1-7.5meg, SN010)	B47-7.5meg-S	HLC-6	PTA755L or (UA755L, SN1000)
R7	Horiz. Hold (Fine)	50K	40X587-1A (40X587-1)	TT-31 or (F1-50K, SN010)	B47-50K-S	B11-123, TM4, or (BU11, CF12, SS8)*	PTA54L or (RU54L, SL37, SN1000) or (UA54L, SN1000)
R8	Horiz. Hold (Coarse)	200K	40X556A (40X556)	TT-46 or (F1-200K, SN010)	B47-200K-S	B11-129, TM4, or (BU11, CF14, SS8)*	RU25L, SL37, SN1000 or (UA25L, SN1000)
R9	Buzz	500Ω (2W)	40X551A (40X551)	V-500	U39-500	110-600	PFL-600

* "SNAPTROL"
① Use switch with metal housing.

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
R22	3600Ω 5W		EG3600		R83	52Ω 20W	PW20-52	20W-SQ-52	
R82	4.7Ω Fuse	FR4.7	FZ4.7						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CATALINA PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	1st Video IF	9A2547					① Wound on 1.5K Res. * Shunt with 1.5K Res.
L2	2nd Video IF	9A2545					
L3	3rd Video IF - Det. Assy.	9A2525					
L4	RF Choke (16uh)	9A2432	TV-192	74F155AP	RTC-8524	T989	
L5	Peaking (190uh)	36A94-1	BC-672	6154	RTC-8586	T345	
L6	Peaking (750uh)	36A94-2 ①	BC-680*	6148*	RTC-8583*	T356*	
L7	4.5MC Trap	9A2529					
L8	Peaking (325uh)	36A94-3	BC-675	6132	RTC-8577	T348	
L9	Sound Input	9A2527		7105-R		TF298	
L10	Quadrature	9A2528					
L11	RF Choke (1.5uh)	9A2380	BC-562	4604	RTC-8516	T856	

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		CATALINA PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
L12	Horiz. Stabilizer	9A2515(B)		6335-G		HS-16		TA121

FILTER CHOKE

ITEM No.	RATINGS	REPLACEMENT DATA						NOTES
		CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	CATALINA PART No.	MERIT PART No.	STANCOR PART No.	
L13	.3ADC	16.6Ω	.315HY	52X102-4	C-4115	C-2343	26C79	C-34X

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CATALINA PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	Vert. Output	51X233-1	A-2853 ①	A-8146 ①	26S23	A-131X	① Cut & Tape Grn. lead. ② Extend leads. ③ Connect orig. horiz. damping cap (C30) 95mmf between yoke terms. #3 & #7. ④ Use orig. rear cover & centering devices. ⑤ Replace HV Rect. Plate Cap. Connector.
T2	Yoke (Horiz. 28MH) (Vert. 33MH)	9A2544-1	MDP-125 & M-238 ② ⑤	DY-31A ②	Y-45 ② ④	Y-45-2	
T3	Horiz. Output	53X398 (F)	HVO-134 ⑤	HO-297 ⑤	FLY-146 ⑤	D-124	

* COMPONENT CONNECTION DATA

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

1. REMOVE JUMPER FROM YOKE PLUG PINS #6 & #7.
2. REMOVE JUMPER FROM YOKE TERM. #1 & #4 & EXTEND A LEAD FROM YOKE TERM. #4.
3. REMOVE ALL LEADS FROM YOKE PLUG EXCEPT RED LEAD TO PIN #4 & RECONNECT ALL LEADS AS SHOWN ABOVE.
4. REMOVE JUMPER FROM YOKE TERMS. #3 & #6 & EXTEND A LEAD FROM YOKE TERM. #6.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	CATALINA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T4	4000Ω	3-4Ω	51X182-4	A-3026	A-3309	24S48	S-6X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		CATALINA PART No.	QUAM PART No.	
SP1	4" PM 3-4Ω	12A820	4A07	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	CATALINA PART NO.	REPLACEMENT DATA
K1	Audio Network	680Ω, 470K, 680mmf, .005mfd	76X55	Aerovox PA-763 ①
K2	Sync Take-off	270K, 2.2meg, 30mmf, .150mmf, .005mfd	76X52	Centralab PC-406 ① Centralab PC-454

① Add a 120K 1/2 Watt Resistor in series with lead #2.

MISCELLANEOUS

ITEM No.	PART NAME	CATALINA PART No.	NOTES
M1	VHF Tuner VHF Tuner UHF Tuner UHF Switch	25A1238 25A1238-1 2A573	STANDARD COIL REPLACEMENT CS Type

MISCELLANEOUS

ITEM No.	PART NAME	CATALINA PART No.	NOTES
M2 M3	Diode Diode Printed Board Printed Board	66X20 66X25 S-38A2725 S-38A2724	Video Detector Horiz. AFC Dual IF-Less Tubes Sweep - Less Tubes

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) 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
	8488 (Round) - 8 Conductor