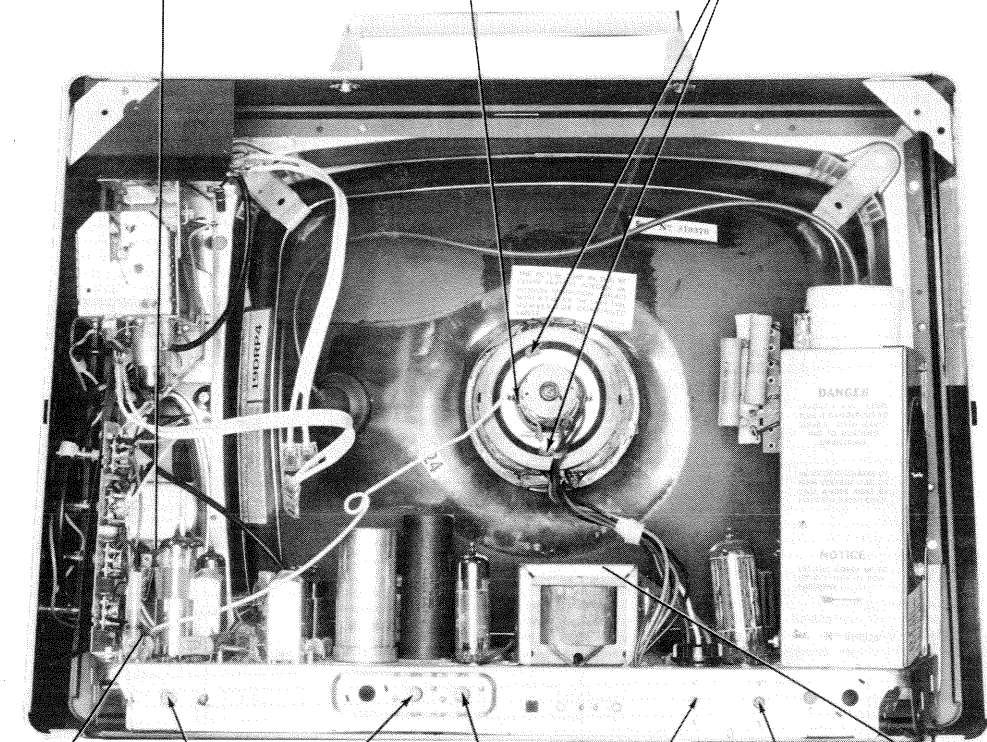


QUADRATURE COIL WIDTH SLEEVE CENTERING



BUZZ CIRCUIT BREAKER (B+) HEIGHT VERT LINEARITY HORIZ DRIVE HORIZ HOLD (COARSE) HORIZ STAB COIL (OSC)

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Connect a clip lead across Horizontal Stabilizer Coil, L16. Set the Horizontal Hold Control (Fine), R5, to the center of its range. Adjust Horizontal Hold Control (Coarse), R9, until the picture is in proper horizontal sync. Remove the clip lead from across Horizontal Stabilizer Coil and adjust B1 until the picture is in horizontal sync. Interrupt signal momentarily to see if picture remains in sync.

Turn Horizontal Drive Control, R8, clockwise until a drive line and foldover appears near center of screen. Then turn counterclockwise until drive line and foldover disappear.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove rear cover (5 screws). Remove 6 knobs from front and 4 from side.
2. Disconnect picture tube socket and ground, anode lead, yoke, and picture tube.
3. Remove 4 screws holding tuner assembly and 4 bolts from bottom of cabinet. Remove chassis.

PICTURE TUBE REMOVAL

1. Remove chassis and lay cabinet face down on a soft protective surface.
2. Loosen clamp ring bolt, remove screws from corner brackets. Remove ring assembly and picture tube.

SET 738 FOLDER 4

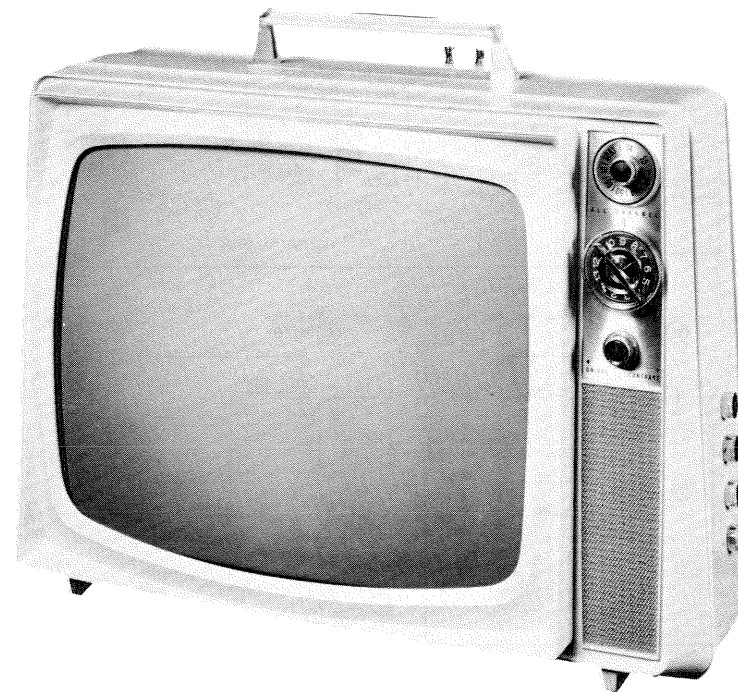
PENNCREST
MODELS 2352A-40/-43

PHOTOFACT® Folder

with CIRCUITRACE®



PENNCREST
MODELS 2352A-40/-43



MODEL 2352A-40

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Penncrest Models 2352A-40/-43
SUPPLIER	For current address, see Master Index.
TYPE SET	Television Receiver
TUBES	VHF - Fifteen, UHF - One Transistor
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 Circuit Breaker is used for low voltage power supply protection and may be reset by depressing the reset button. (See "Tube Placement Chart" 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 a Range (AGC) control. (See "Tube Placement Chart" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

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

HORIZONTAL DRIVE

The horizontal drive may be varied by a Horizontal Drive Control. (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.

FOCUS

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

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.

PENNCREST
MODELS 2352A-40/-43

SET 738 FOLDER 4

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. NA053

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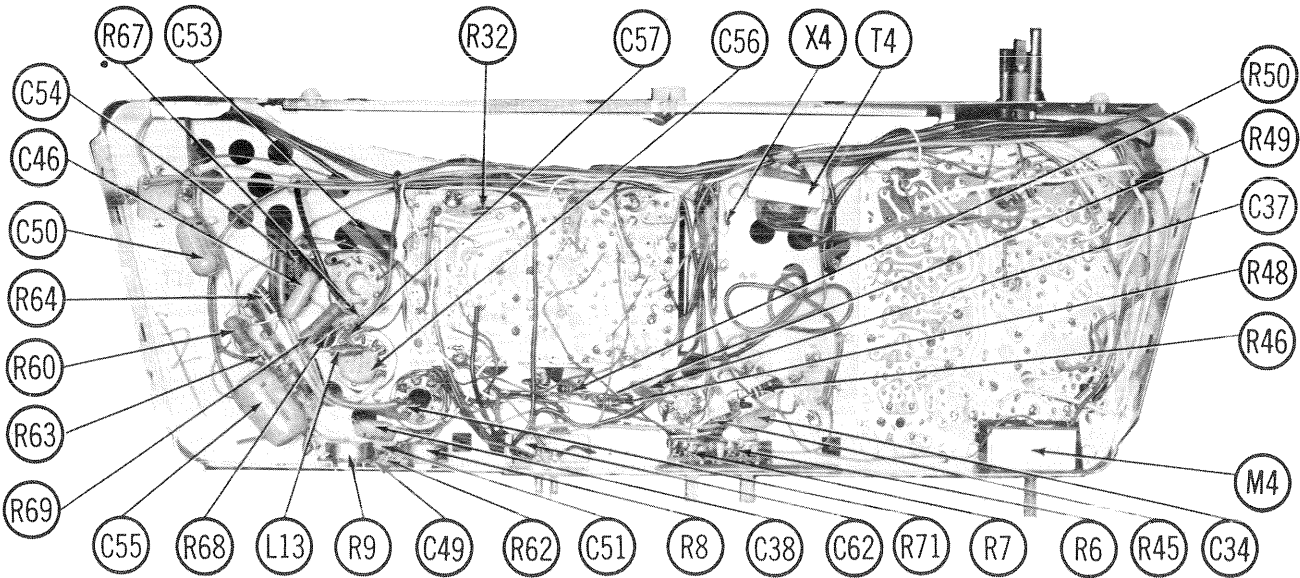
DATE 2 -65

SET 738 FOLDER 4

RESISTANCE MEASUREMENTS

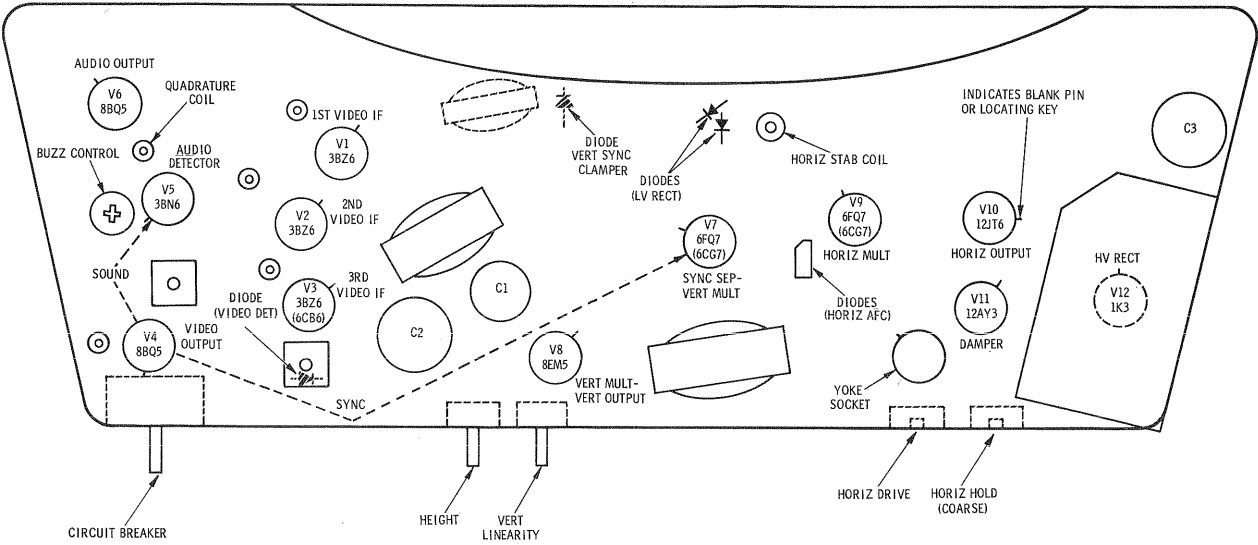
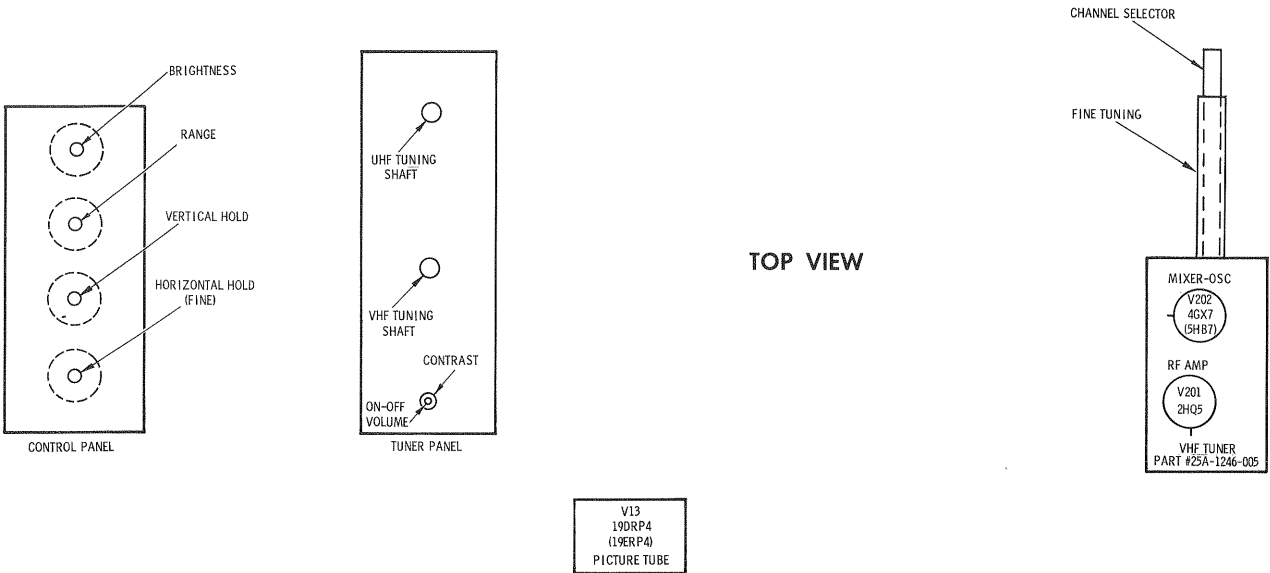
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3BZ6	500K	47Ω	15Ω	16Ω	† 2500Ω	† 2500Ω	0Ω		
V2	3BZ6	500K	47Ω	15Ω	14Ω	† 2500Ω	† 2500Ω	0Ω		
V3	3BZ6	.2Ω	180Ω	14Ω	13Ω	† 2400Ω	† 2400Ω	0Ω		
V4	8BQ5	NC	275K	250Ω	13Ω	12Ω	NC	† 3600Ω	NC	† 2000Ω
V5	3BN6	220Ω	6Ω	12Ω	11Ω	† 6700Ω	5.1Ω	‡ 940K		
V6	8BQ5	NC	100K	270Ω	11Ω	10Ω	NC	† 875Ω	NC	† 355Ω
V7	6FQ7	† 12.5K	2.2meg	0Ω	0Ω	10Ω	† 6meg	1meg	40K	0Ω
V8	8EM5	† 25Ω	NC	NC	17Ω	16Ω	470K	470K	NC	† 427Ω
V9	6FQ7	‡ 100K	1.7meg	820Ω	8Ω	9Ω	‡ 220K	200K	820Ω	0Ω
V10	12JT6	NC	750K	0Ω	7Ω	4.5Ω	47K	† 8500Ω	NC	‡ 16.4Ω
V11	12AY3	NC	NC	NC	4.5Ω	1.5Ω	NC	† 25Ω	NC	7meg
V12	1K3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP ‡ 346Ω
V13	19DRP4	7Ω	180K	‡ 5meg	0Ω	NC	NC	† 150K	8Ω	
V201	2HQ5	2.4meg	0Ω	0Ω	.6Ω	† 3000Ω	0Ω	0Ω		
V202	4GX7	0Ω	220K	0Ω	.6Ω	1.5Ω	† 2800Ω	† 24K	† 6700Ω	47K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

† MEASURED FROM OUTPUT OF X2.
‡ MEASURED FROM PIN 9 OF V11.
NC NO CONNECTION



CHASSIS—BOTTOM VIEW

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

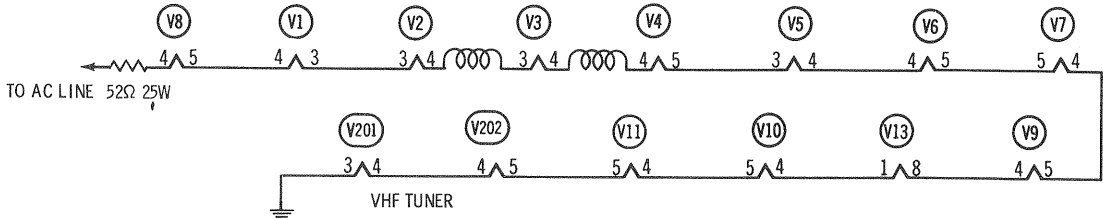
The following chart lists tubes whose failures are most likely to produce indicated symptoms. Refer to tube placement chart for location and type of tube.

- POWER SUPPLY FAILURE**
No raster, no sound M4 (Circuit Breaker), X1, X2

SWEEP FAILURE
No raster, has sound V9, V10, V11, V12, V13
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, X1, X2
Vert. off freq. V7, V8
Horiz. off freq. X5 (Horiz. AFC Diode), V9
- LOSS OF PICTURE OR SOUND**
No pic, no sound, has raster V1, V2, V3, X3 (Video Det. Diode), V4
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V4, V13
Has pic, no sound V5, V6

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

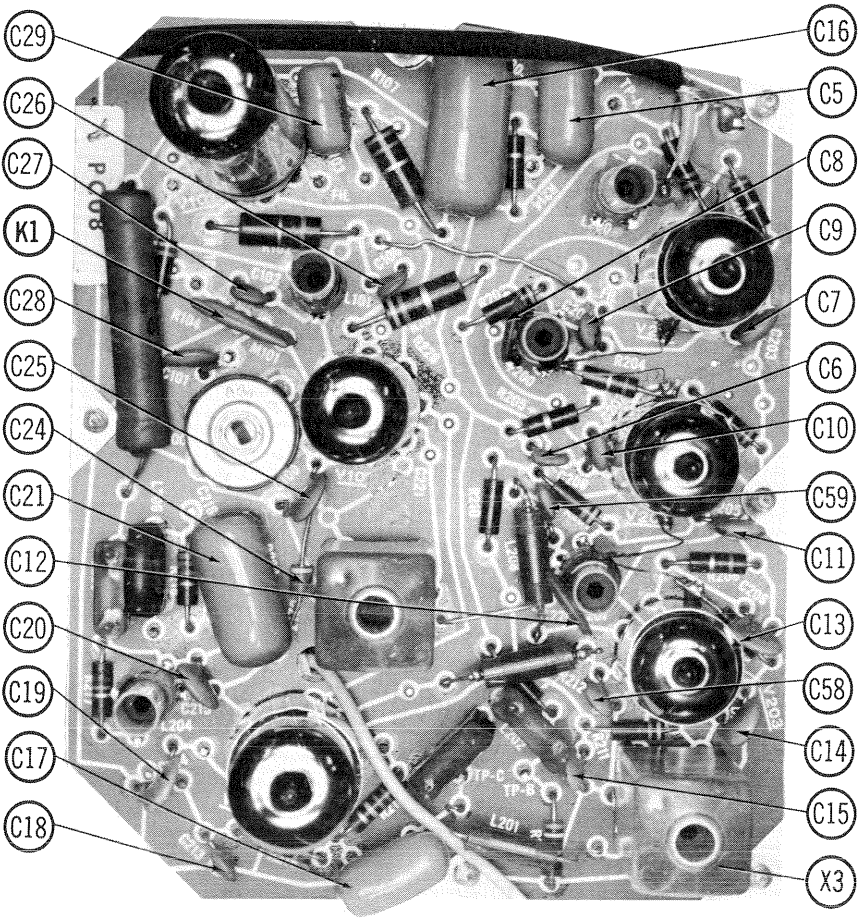
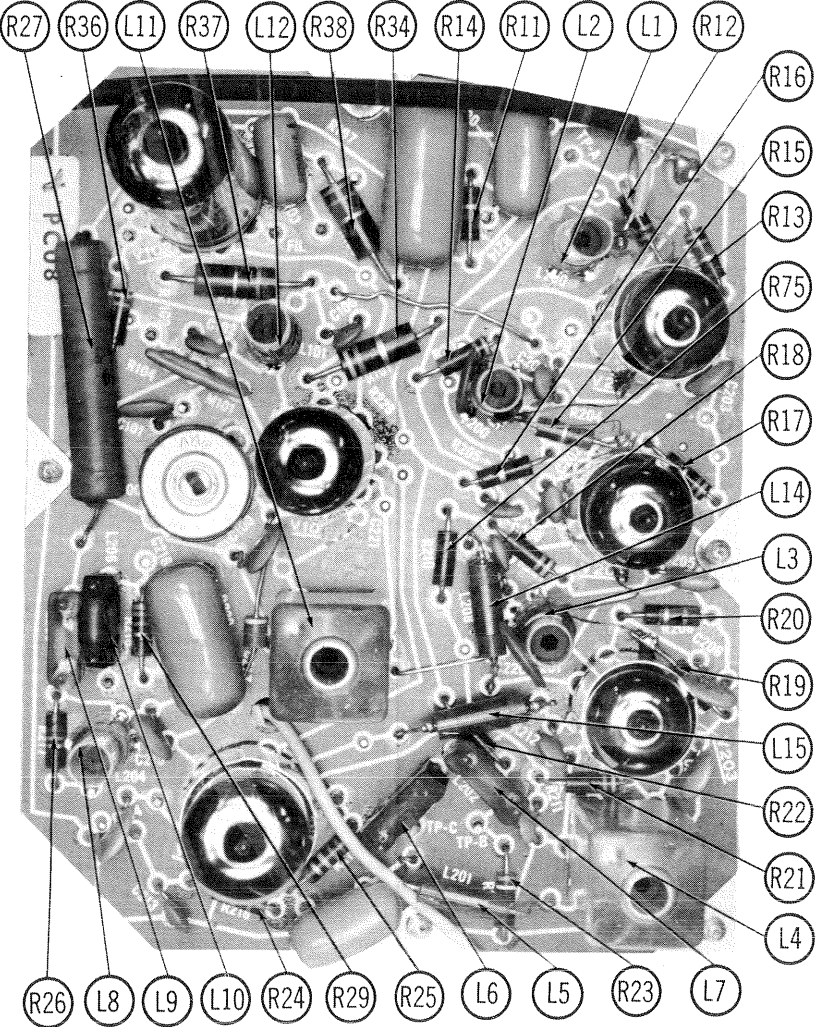
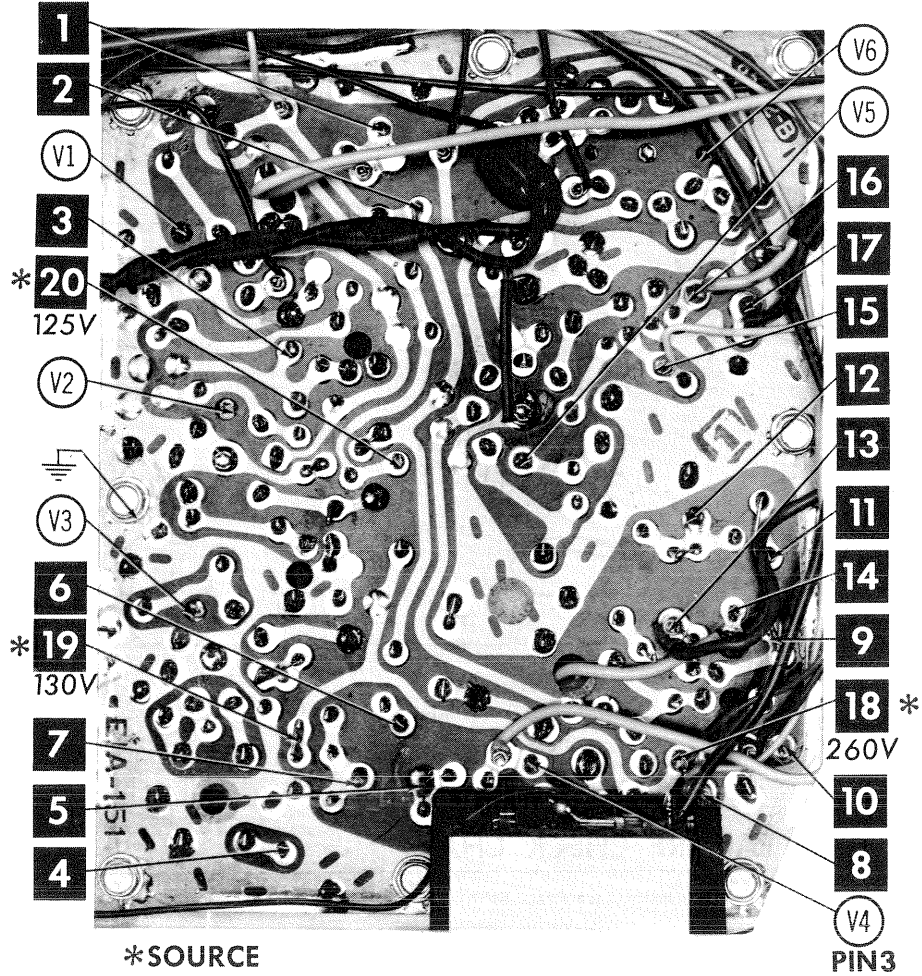
This receiver employs tubes used in a series filament network, an open filament in any tube will cause the set to be inoperative. (See circuit below.)



PENNCREST
MODELS 2352A-40/-43

FOLDER 4

ARROWS INDICATING TUBE LOCATIONS ARE
POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

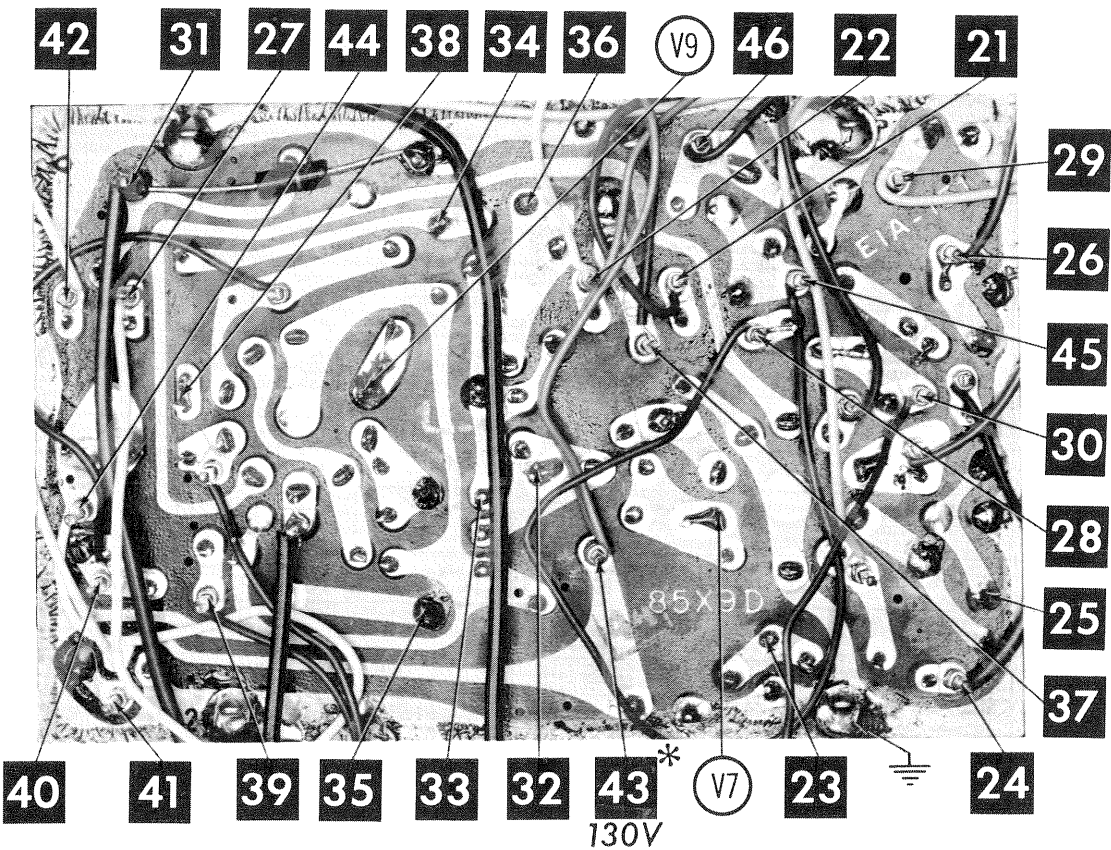


VIDEO, SOUND IF PRINTED BOARD

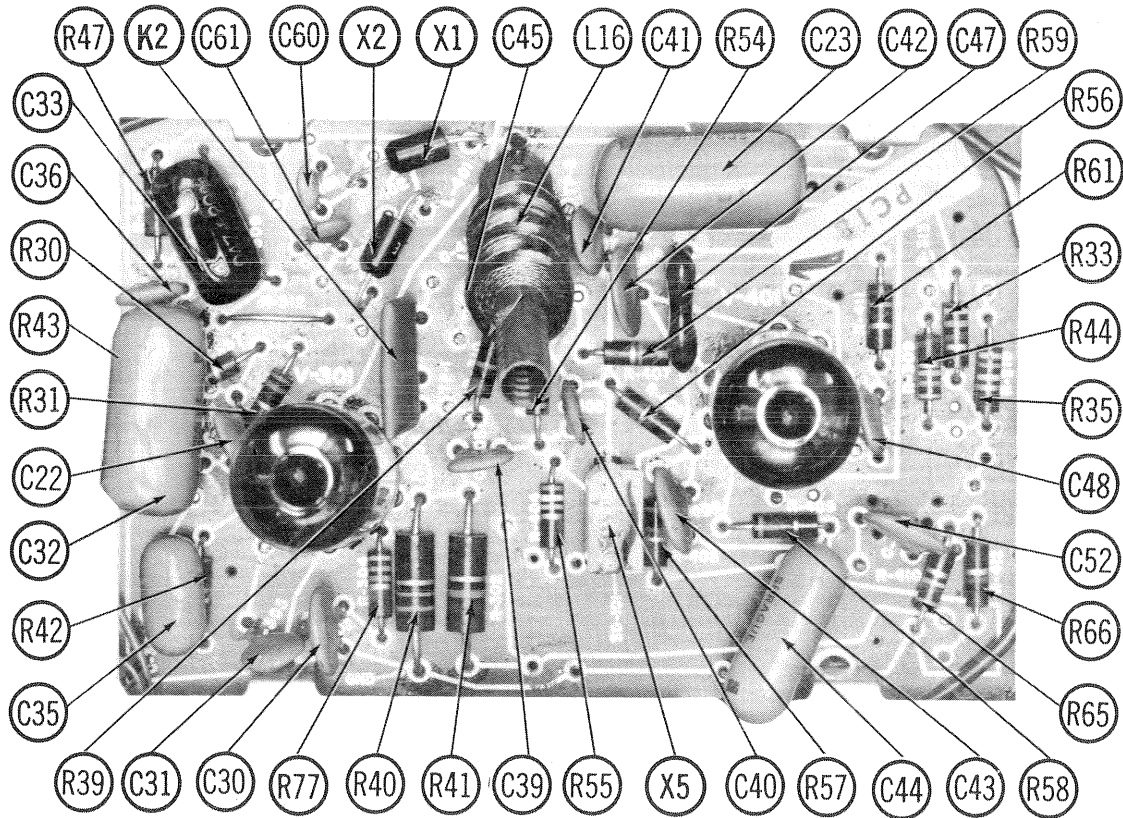
PENNCREST
MODELS 2352A-40/-43

FOLDER 4

ARROWS INDICATING TUBE LOCATIONS ARE
POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



*SOURCE



SYNC, SWEEP PRINTED BOARD

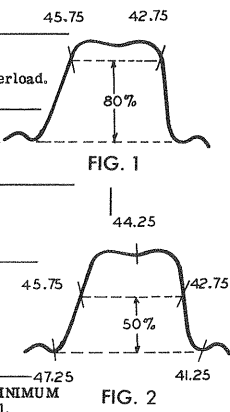
ALIGNMENT INSTRUCTIONS

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 GENERAL CEMENT #8606, 8869, 9302 ... WALSCO #2511, 2543, 2588
Mixer Plate Coil GENERAL CEMENT #9296, 9300, 9302 ... WALSCO #2510, 2511, 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 47.25MC	A1 A2	Adjust for MINIMUM.
2. Connect DC probe of a VTVM thru a 47K resistor to point C. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		44.0MC 45.3MC 42.8MC	A3, A4 A5 A6	Adjust for maximum.
3. Connect vertical input of a scope to point D. Low side to ground.	Connect high side to pin 1 (grid) of V 3. Low side to ground.	44MC (10MC Sweep)	42.75MC 45.75MC	A3, A4	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
4. Connect vertical input of a scope to point E. 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 44.25MC 45.75MC 47.25MC	A5, A6, A7, 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.

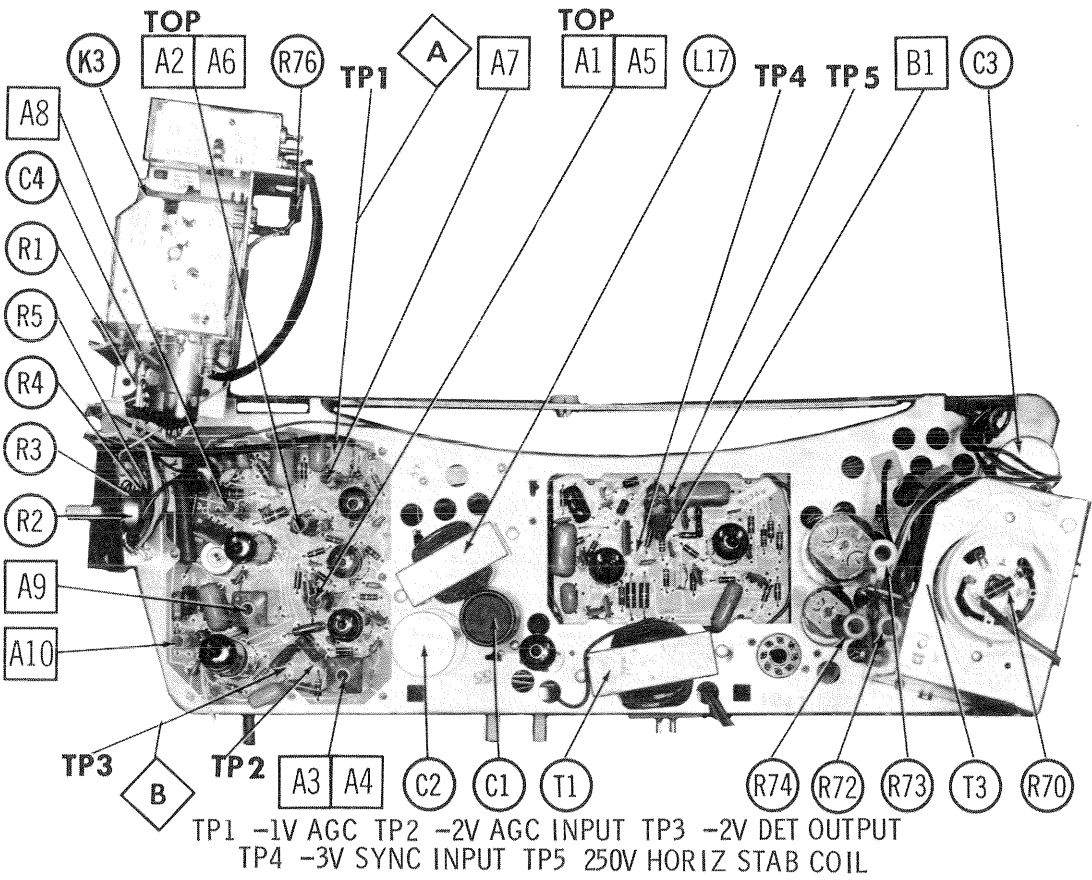


SOUND IF ALIGNMENT

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 A8, A9 and R10. If the hiss disappears during alignment, further reduce the signal strength.

4.5 MC TRAP ALIGNMENT

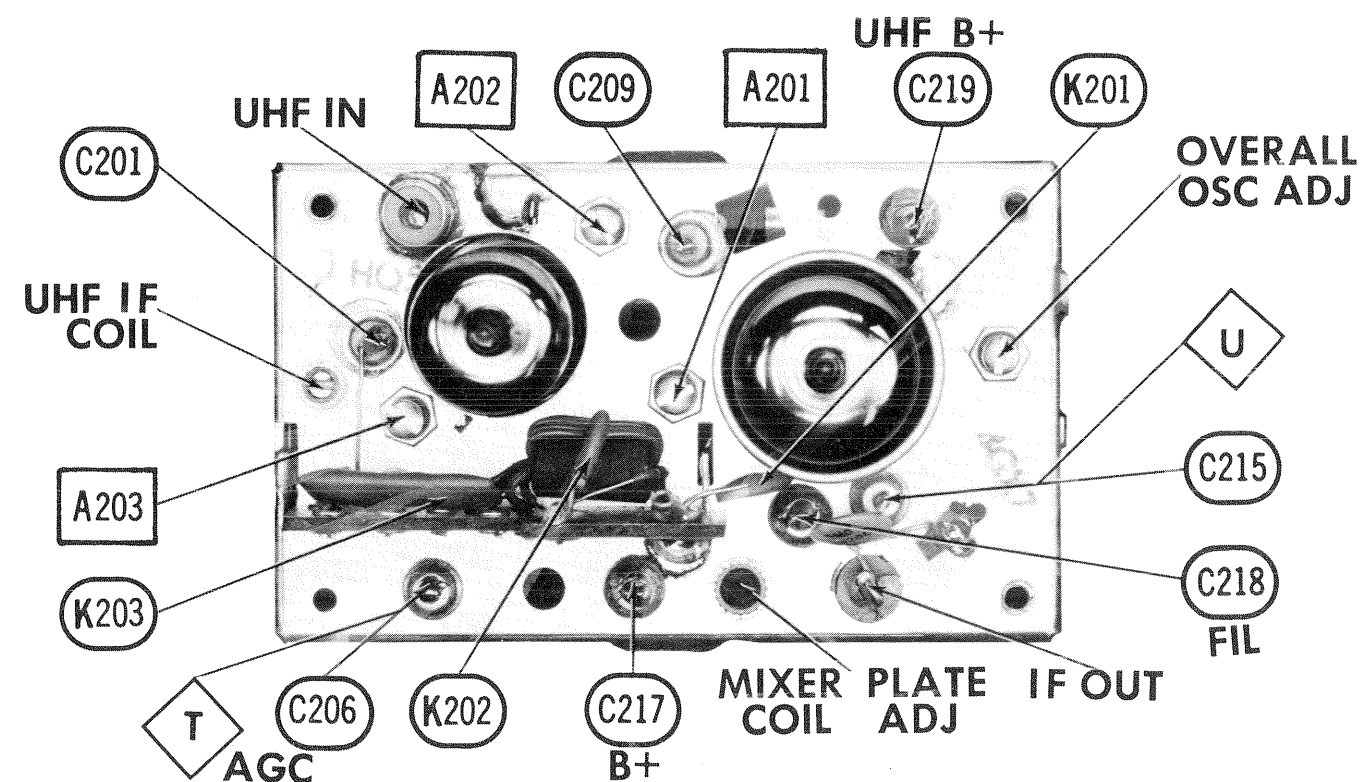
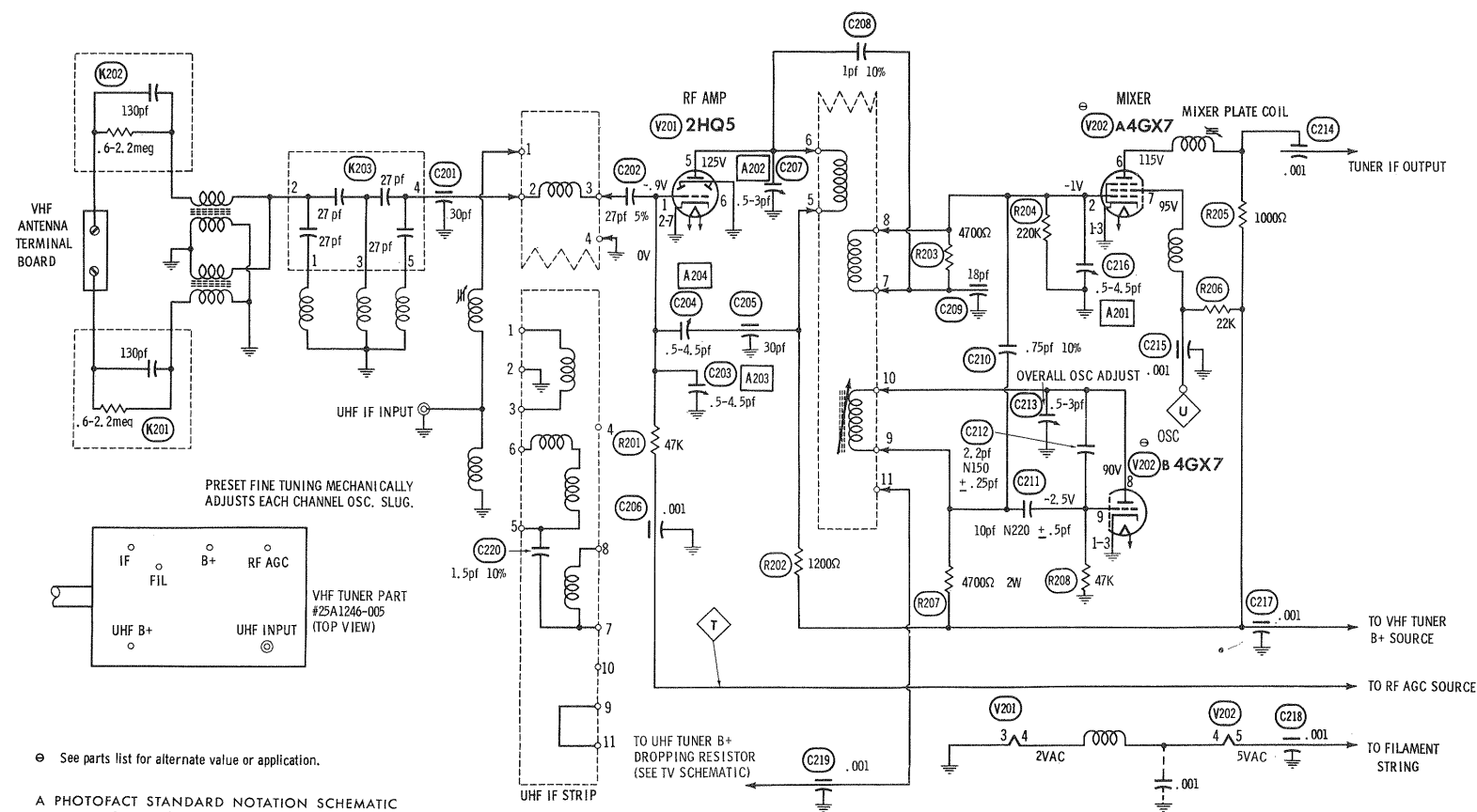
Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A10 for MINIMUM beat interference.



CHASSIS—TOP VIEW
SET 738 FOLDER 4

PENNGCREST
MODELS 2352A-40/-43



FOLDER 4



VHF TUNER ALIGNMENT INSTRUCTIONS

OSCILLATOR ADJUSTMENTS TUNER 25A1246-005

RF AND MIXER ALIGNMENT

	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	A201 A202, A203	Adjust 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.	A204	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point  , low side to ground.		Decrease bias. Check response on all channels and make compromise adjustments of A201, A202 and A203 if required.

CHANNEL & FREQUENCY CHART


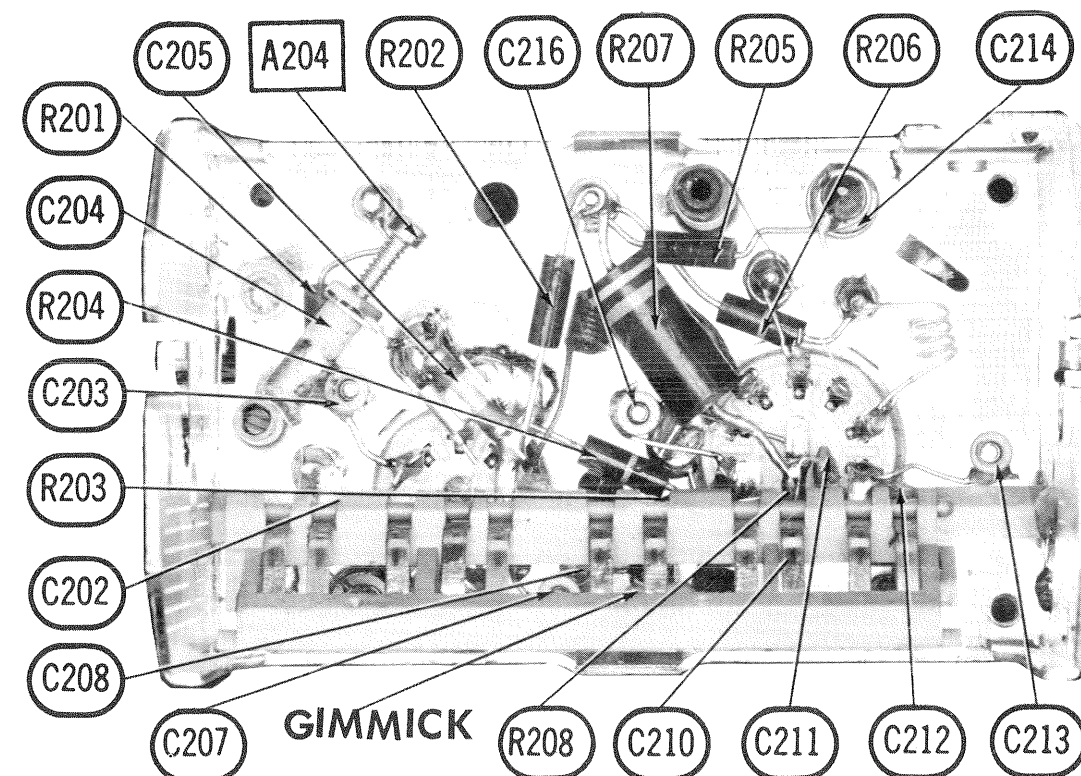
SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR	MARKER GENERATOR FREQUENCY	CHANNEL	 FIG. 201
57MC	55. 25 MC 59. 75 MC	2	85MC	83. 25 MC 87. 75 MC	6	195MC	193. 25 MC 197. 75 MC	10	
63MC	61. 25 MC 65. 75 MC	3	177MC	175. 25 MC 179. 75 MC	7	201MC	198. 25 MC 203. 75 MC	11	
69MC	67. 25 MC 71. 75 MC	4	183MC	181. 25 MC 185. 75 MC	8	207MC	205. 25 MC 209. 75 MC	12	
79MC	77. 25 MC 81. 75 MC	5	189MC	187. 25 MC 191. 75 MC	9	213MC	211. 25 MC 215. 75 MC	13	

FIG. 201

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



VHF TUNER PARTS LIST AND DESCRIPTION

TUBES					
♦ AMPEREX ♦		♦ GENERAL ELECTRIC ♦		♦ RCA ♦ SYLVANIA ♦	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	2HQ5	V202	Mixer - Osc.	4GX7 (5HB7) *

* Alternate

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	30	5%	EF-001	TCZ-27		CNO427	10TCC-Q27
C202	27						
C203	.5-4.5						
C204	.5-4.5						
C205	30						
C206	.001	10%	MFT-1000	829-3	CCF-102	CV-1	CT280A
C207	.5-3						
C208	1						
C209	18						
C210	.75						
C211	10 N220 ±.5pf		EF-001	MFT-1000	CCF-102	CV-1	CT280A
C212	2.2 N150 ±.25pf						
C213	.5-3						
C214	.001						
C215	.001						
C216	.5-4.5		EF-001	MFT-1000	CCF-102	CV-1	CT280A
C217	.001						
C218	.001						
C219	.001						
C220	1.5						

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

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PENNCREST PART No.	REPLACEMENT DATA
K201	Antenna Isolation	.6-2.2meg, 130pf	A13P-013-3	
K202	Antenna Isolation	.6-2.2meg, 130pf		
K203	Antenna Network	27pf, 27pf, 27pf, 27pf		

UHF TUNER PARTS LIST AND DESCRIPTION

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X301	24T-002	UHF Oscillator				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		1N82AG					1N82A

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.
C301	24		EF-001	829-10		CCF-102	CT280A
C302	.5pf N750 1%						
C303	10.5						
C304	2-8						
C305	.001						
C306	85						

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 ♦ SYLVANIA ♦					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	3DZ6	V7	Sync Sep. - Vert. Mult.	6FQ7 (6CG7) *
V2	2nd Video IF Amp.	3BZ6	V8	Vert. Mult. - Vert. Output	8EM5
V3	3rd Video IF Amp.	3BZ6 (6CB6) *	V9	Horiz. Mult.	6FQ7 (6CG7) *
V4	Video Output	8BQ5	V10	Horiz. Output	12JT6
V5	Audio Detector	3BN6	V11	Damper	12AY3
V6	Audio Output	8BQ5	V12	HV Rectifier	1K3

* Alternate

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	PENNCREST PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V13	19DRP4 19ERP4				

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.
X1	.29A	66X0023-001	GE-504 or 1N1695	IN540 or 1N2070 ①	1N1764 or 1N2863	40H or F-4	1N60 6GC1
X2	.29A	66X0023-001	GE-504 or 1N1695	IN540 or 1N2070 ①	1N1764 or 1N2863	40H or F-4	
X3		66X0020-001					
X4		66X0034-001					
X5		66X0025-001					

When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.
① A dual unit, VB600, may be used for X1 and X2.

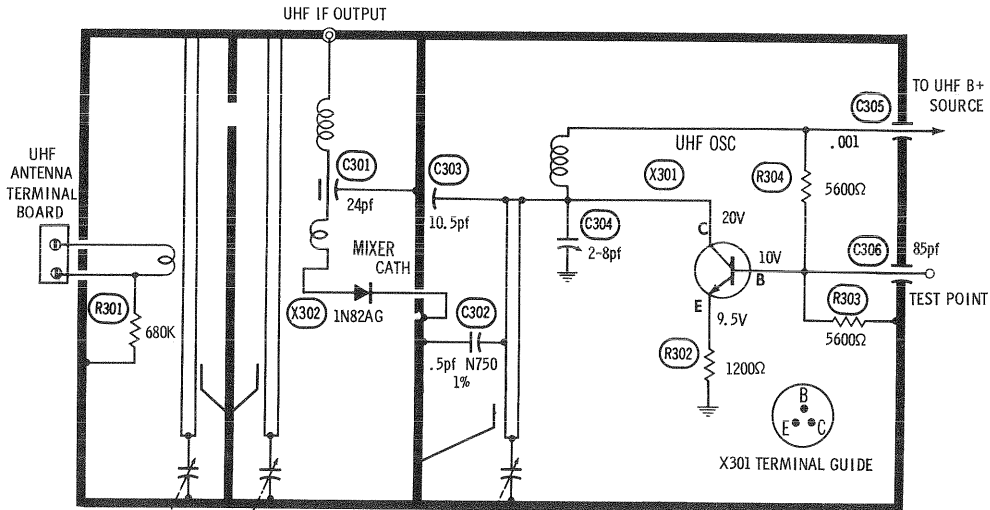
ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	PENNCREST PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	140	150	45X0500-001	AFHS1-23 ①	AA0261 ①	XC1-16.1 ①	TMS-1270 ①	WP125.5A ①	TVL-1428 ①
C2A	125	300	45X0504-001	AFHS3-99-80	CC0236.5	XC3-35	TMT-3664	FP326.78A	TVL-3574.5
B	20	300					TD-40-350		
C	100	50							
C3A	125	300	45X0498-001	AFH2-41-40	BB0286	XC3-42	TMD-2425	WP219	TVLS-2590 *
B	60	300							

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
① Use insulating sleeve and mounting wafer.

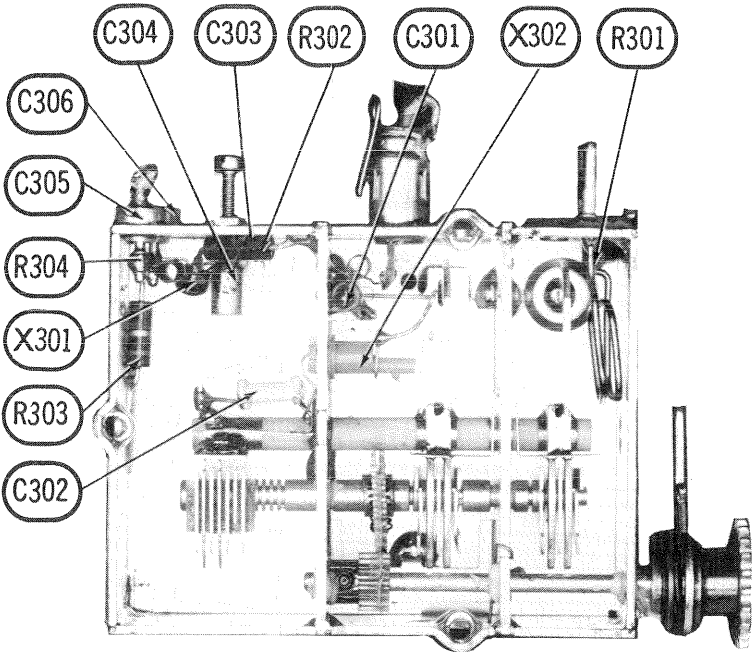
FIXED CAPACITORS

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	56	N750 10%	P288N-047	TCN-56	PM2847	CCTN-560	CN7456
C5	.047						
C6	.001						
C7	680						
C8	56						
C9	470	10%	DI-470	DD-471	JB6T47	CCD-471	GP347
C10	470						
C11	680						
C12	66						
C13	.001						
C14	560	10%	DI-560	DD-561	JB6T56	CCD-561	GP356
C15	.001						
C16	.22						
C17	.047						
C18	.001						
C19	.005	10%	DD-503	DD-502	PM2847	CCD-102	B210
C20	30						
C21	.1						
C22	.001						
C23	.047						
C24	3.3	10%	P288N-047	DD-503	BYA10D1	CCD-502	B250
C25	.005						
C26	.001						
C27	15						
C28	.005						
C29	.0047	600V	BPD-005	DD-502	BYA10D5	CCD-502	B250
C30	.002						
C31	.005						
C32	.1						
C33	.047						
C34	.033	200V 10%	P288N-047	DD-503	BYA10D1	CCD-102	B210
C35	.01						
C36	.001						
C37	.01						
C38	.033						
C39	47	N330 10%	#80X0099-019				
C40	43	N330 10%	#80X0099-018				



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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UHF TUNER 25A124-003D



PENNCREST
MODELS 2352A-40 / -43

FOLDER 4

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.	ELMENCO PART No.	MALLORY PART No.
C41	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210
C42	.002		BPD-002	DD-202	BYA10D2	CCD-202	B220
C43	.002		BPD-002	DD-202	BYA10D2	CCD-202	B220
C44	.1 200V		P288N-1	DF-104	PKM2P1	2DP-3-104	GEM201
C45	.0056 400V 10%		BE6D56	CPR-5600J	PKM4D56	6DP-1-562	PVC4256
C46	.047 400V		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147
C47	330 10%		ADM-15-331	CPR-330J	CD15F331K	DM-19-331K	
C48	.001 10%		DI-1000	DD-102	JB6D1	CCD-102	GP210
C49	.001		BPD-0047	DD-472	BYA10D47	CCD-472	B247
C50	.1 600V		P688N-1	DF-104	PM6P1	6DP-4-104	GEM601
C51	470 10%		DI-470	DD-471	JB6T47	CCD-471	GP347
C52	.01		BPD-01	DD-103	BYA10S1	CCD-103	B110
C53	.047 400V		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147
C54	.047 400V		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147
C55	.22 600V		P688N-22		PM6P22	6DP-5-224	GEM6022
C56	82, 5KV, N1500, 10%	#80X0098-017					
C57A	.001		BPD2-2X001	DD3-102	BYA10D1	CCD-102	B2X210
C58	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210
C59	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210
C60	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210
C61	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210
C62	.1 600V		P688N-1		PM6P1	6DP-4-104	GEM601

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

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			PENNCREST PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A B	Contrast Volume, Switch	750Ω 1meg	78X0056-004	F5-750, RI-1meg, FFS100, RP113, KR-8		† QJ-1796	
R2	Brightness	500K	40X0585-003	F1-500K, SN104 ① or (AB-59, AK-19 ①)	B47-500K-S ①	B11-133, TM4 ① or (BU11, CF16, SS6 ①) *	PTA55L ① or (RU55L, SL37, SN1000 ①) or (UA55L, SN1000 ①)
R3 R4	Range (AGC) Vert. Hold	7meg 1.5meg	40X0585-025 40X0585-001	F1-1.5meg, SN104 ① or (AB-742, AK-19 ①)	B47-1.5meg-S ①	B11-138, TM4 ① or (BU11, CF18, SS6 ①) *	PTA26L ① or (RU155L, SL37, SN1000 ①) or (UA155L, SN1000 ①)
R5	Horiz. Hold (Fine)	50K	40X0585-006	F1-50K, SN104 ① or (AB-31, AK-19 ①)	B47-50K-S ①	B11-123, TM4 ① or (BU11, CF12, SS6 ①) *	PTA54L ① or (RU54L, SL37, SN1000 ①) or (UA54L, SN1000 ①)
R6	Height	7.5meg	40X0586-002	TT-90 or (F1-7.5meg, SN010)	B47-7.5meg-S	HLC6	PTA755L or (UA755L, SN1000)
R7	Vert. Linearity	110K	40X0586-012	TT-40 or (F1-100K, SN010)	B47-100K-S	B11-128, TM4 or (BU11, CF13, SS6) *	PTA15L or (RU15L, SL37, SN1000) or (UA15L, SN1000)
R8	Horiz. Drive	200K	40X0586-001	TT-46 or (F1-200K, SN010)	B47-200K-S	B11-129, TM4 or (BU11, CF14, SS6) *	PTA25L, SL37, SN1000 or (UA25L, SN1000)
R9	Horiz. Hold (Coarse)	300K	40X0586-005	TT-50 or (F1-250K, SN010)	B47-250K-S	B11-131, TM4 or (BU11, CF15, SS6) *	PTA35L or (RU35L, SL37, SN1000) or (UA254L, SN1000) PFL600
R10	Buzz	500Ω 2W	40X0551	V-500	U39-500	110-600	

† "CONCENTRIKIT" Equivalent: K-16 Kit with Base Elements and Shafts: B17-105, P22-100 (Panel).
"SNAPTROL" Equivalent: BU5, CF36, CR12, SF6, SR83, K. B11-137, R23-122 (Rear).
* "SNAPTROL" ① File flat.

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
R27 R52	3600Ω, 7W, 5% Thermistor 4.2Ω, Cold	MR 4	10W-SQ-3500	#43X0360-001	R72 R73 R74	5Ω 15W 52Ω 25W 1850Ω 15W	2C-5 2D-50 2C-20000	15W-SQ-5 25W-SQ-25 15W-SQ-15	#43X0317-001 #43X0444-002 #43X0316-001
R69	8500Ω 3W	PW 10	10W-SQ-8500	#43X0450-007					

Penncrest Part Number

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PENNCREST PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1 L2A L2B L3A L3B	1st Video IF 47.25MC Trap 2nd Video IF 41.25MC Trap 3rd Video IF	9A2541-001 9A2540-001 9A2539-001					
L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15	Video Detector RF Choke (16uh) Peaking (750uh) Peaking (290uh) 4.5MC Trap Peaking (290uh) Peaking (190uh) Sound Takeoff Quadrature RF Choke (1.5uh) Fil. Choke (2.1uh) Fil. Choke (2.1uh)	9A2542-001 9A2432-001 36A0094-008 36A0094-009 9A2529-001 36A0094-009 36A0094-010 9A2527-001 9A2526-001 9A2380-001 9A2543-001 9A2543-001	TV-192 BC-680 * BC-674 BC-672 A BC-674 BC-563 BC-563	74F155AP 6156 * 6155 7126 6155 6154 A 7105-R 7125 4604 74F226AP 74F226AP	RTC-8524 RTC-8588 * RTC-8587 RTC-8587 RTC-8517 RTC-8517	T989 T356 * T348 T348 T345 A T856 TA812 TA812	* Shunt with 1000Ω resistor. A Shunt with 15K resistor.

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						
		PENNCREST PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	WORKMAN PART No.
L16	Horiz. Stabilizer (Osc.)	9A2515B (9A2515-001)		6335-G		HS-16		TA121

FILTER CHOKE

ITEM No.	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	REPLACEMENT DATA					NOTES
				PENNCREST PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L17	.29 ADC	25.5Ω	.53 Hy.	52X0112-003	C-4084	C-2347	26C78	C-28X	

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PENNCREST PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1 T2	Vert. Output Yoke (Horiz. 19MH) 114" (Vert. 14.2MH) Yoke Clamp Width Sleeve	51X0223-003 9A2477-001(E)	A-2984 MDF-127	YO-115 DY-45A	26807 Y-52 ①	A-140X Y-60-1 ②	① Remove 27pf cap from terminals 2 & 7. ② Remove both caps from terminals 1 & 2, and remove 470Ω resistors from vert. yoke network. Remove jumper from terminals 5 & 8.
T3	Horiz. Output	30X0628-001 11X0197-001 53X397-2 (53X0397-002)	HVO-192	HO-371	FLY-244	D-215	

* COMPONENT CONNECTION DATA

ORIGINAL → REPLACEMENT ↓	HV TRANSFORMER						VERTICAL OUTPUT			YOKE								YOKE PLUG									
	Original Connections						Original Connections			Original Connections								1	2	3	4	5	6	7	8		
MERIT	1	2	3	4	5			Blue	Red	Yellow		1	2	3	4	5	6	7	8	TO YOKE TERMINAL							
	1	2	3	4	5			Green	Red	Yellow		6	8	4	10	3	2	5	1	No Wiring Change Necessary							
STANCOR	1	2	3	4	5			Green	Red	Yellow		1	2	3	4	5	6	7	8	6	7	3	2	▲	4		
THORDARSON	1	2	3	4	5			Green	Red	Yellow		1	2	3	4	5	6	7	8	6	7	3	2	▲	4		
TRIAD	1	2	3	4	5			Blue	Red	Yellow		1	2	3	4	5	6	7	8	6	7	3	2	▲	4		

▲ Jumper Yoke Plug Pins #6 and #7.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	PENNCREST PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T4	4800Ω	3-4Ω	51X0192-005	A-3028	A-3309	24S48	S-6X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		PENNCREST PART No.	QUAM PART No.	
SP1	2" x 6" PM 3-4Ω	12A0628-001	26A07	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PENNCREST PART NO.	REPLACEMENT DATA
K1	Audio Network	680Ω, 470K, 680pf, .005mfd	76X0055-001	Aerovox PA-763 ① Centralab PC-406
K2	Sync Takeoff	270K, 2.2meg, 30pf, 150pf, .005mfd	76X0052-001	Centralab PC-454
K3	Chassis Isolation	.3-1meg, 470pf	76X0018-001	Centralab RC-471 Sprague AC1-1

MISCELLANEOUS

ITEM No.	PART NAME	PENNCREST PART No.	NOTES
M1 M2 M3 M4	VHF Tuner UHF Tuner VHF Antenna Circuit Breaker Printed Circuit Board Printed Circuit Board	25A-1246-005 25A-1243-003D 9A2575-001 2A0568-001 38A2722-000 38A2973-000	STANDARD KOLLSMAN REPLACEMENT 41S13, 600MA filaments JFD REPLACEMENT TA424 2.25 Amp. IF, Complete Assembly - less tubes Sweep, Complete Assembly - less tubes

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Mask and Escutcheon Assembly - Model 2352A-40	38A2970-016	Name Plate	4X1880-002
Mask and Escutcheon Assembly - Model 2352A-43	38A2970-017	Knob - VHF Channel Selector	38A3000-030
Handle - Model 2352A-40	4X1844-004	Knob - VHF Fine Tuning	38A3000-029
Handle - Model 2352A-43	4X1844-003	Knob - UHF Tuning	38A3000-031
Cabinet - Model 2352A-40	34X0626-015	Knob - UHF Indicator	10A1113-902
Cabinet - Model 2352A-43	34X0626-014	Knob - On/Off/Volume	10A1089-828
Cabinet Back - Model 2352A-40	14X0768-005	Knob - Contrast	10A1089-808
Cabinet Back - Model 2352A-43	14X0768-004	Knob - Brightness, Range, Vertical Hold, Horizontal Hold	10A1085-915

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 8488 (Round) - 8 Conductor