

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Short Point C to ground. Connect a jumper across Horizontal Stabilizer coil, L22. Adjust Horizontal Hold (Fine) control to the center of its range. Adjust Horizontal Hold (Coarse) control until the picture stops or floats slowly across the screen. Remove short from Point C.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove thirteen screws holding back cover and disconnect antenna leads. Remove all knobs.

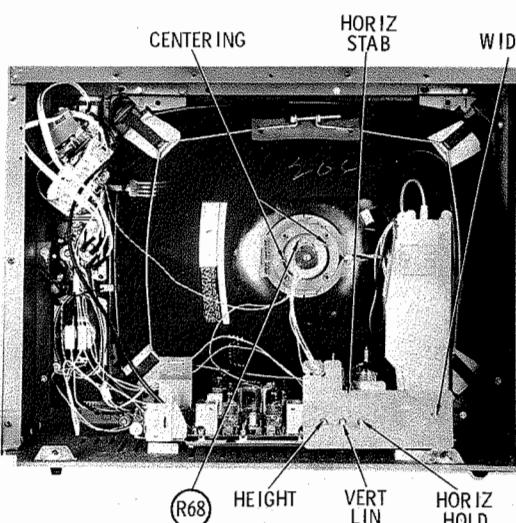
Remove picture tube socket, high voltage anode lead, yoke, speaker leads, and ground leads.

Remove three screws holding controls, four screws holding tuners, and five screws holding chassis. Lift tuners, controls, and chassis from the cabinet.

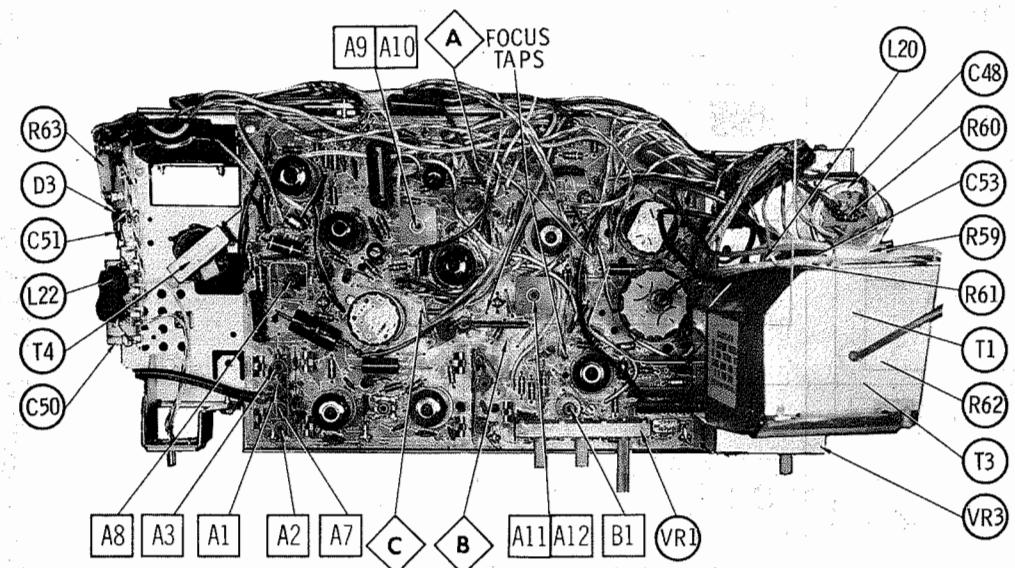
PICTURE TUBE REMOVAL

Follow "Chassis Removal" procedure. Lay set face down on a soft protective surface.

Remove one screw holding picture tube retaining wire. Lift picture tube out but do not lift by the neck.



CABINET-REAR VIEW CHASSIS-TOP VIEW



TROUBLESHOOTING CHECK CHART

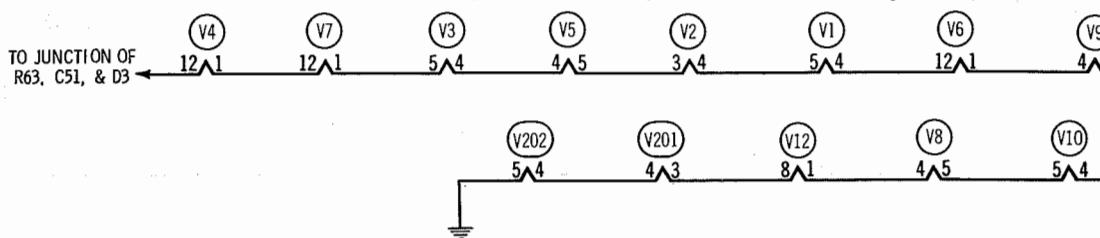
The following chart lists component failures most likely to produce indicated symptoms.

SWEEP
No raster, has sound V4, V7, V8, V11, V12
No vert. deflection V6
Poor vert. lin. or foldover V6
Poor horiz. lin. or foldover V4, V7, V8
Narrow picture V4, V7, V8
Vert. off freq. V6
Horiz. off freq. V8, DI AFC Diode

PICTURE OR SOUND
No pic, no sound, no raster Circuit Breaker, D3, R64
No pic, no sound, has raster V201, V202, V3, V9, V10, D2
No pic, no sound, has snow V201, V202, V9
No pic, has sound, no raster V4, V7, V8, V11, V12
No pic, has sound, has raster V3, V12
Has pic, no sound V1, V2, V5
Overloaded picture V1

SYNC
No vert. sync V6
No horiz. sync V8, D1
No vert. or horiz. sync V5

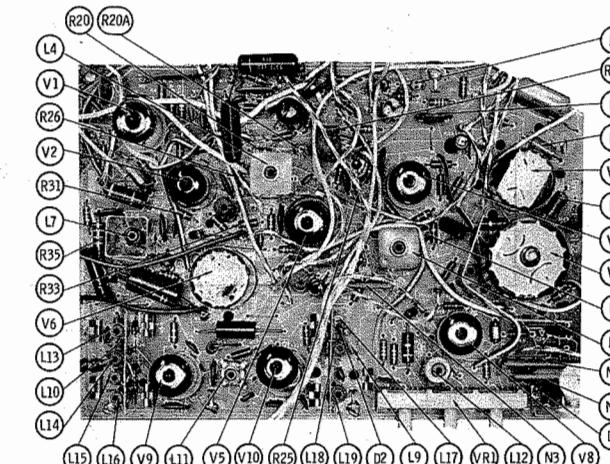
This receiver employs tubes used in a series filament network; an open filament in any tube will cause the set to be inoperative. (See circuit below.)



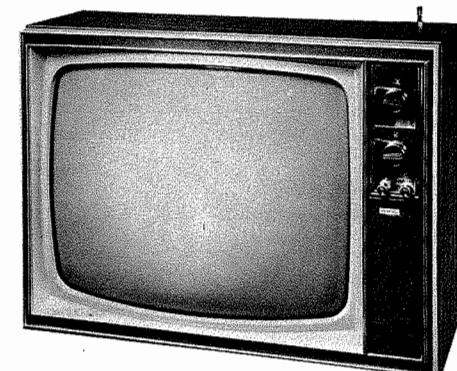
PHOTOFAC[®] Folder with CIRCUITTRACE[™]

For Supplier Address See PHOTOFAC Index

PRINTED BOARD TOP VIEW



PHILCO-FORD MODELS B820TWA,
B830TWA (Ch. 20V35)



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. UA733

REMEMBER TO ASK—“What else needs fixing?”

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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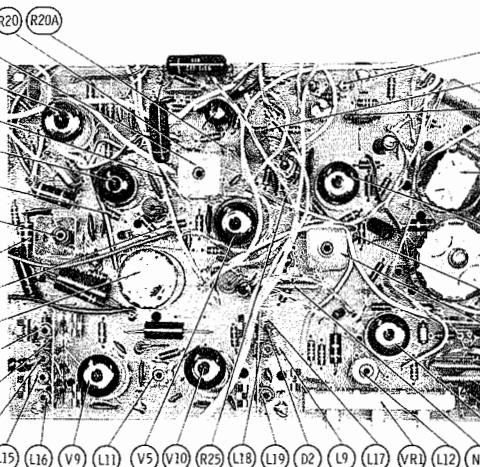
DATE 8-70 SET 1118 FOLDER 2

PHOTOFAC[®] Folder

with CIRCUITTRACE[®]

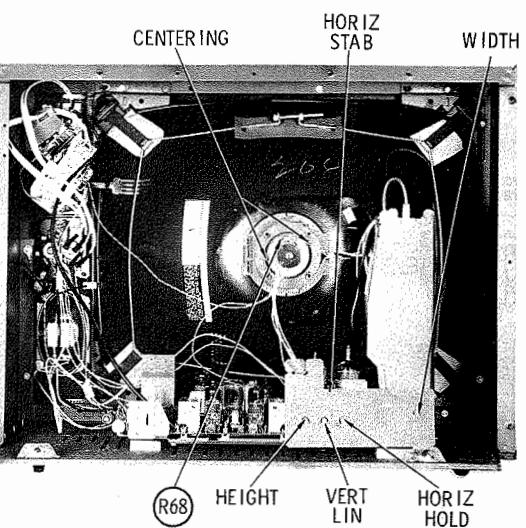
For Supplier Address See PHC

PRINTED BOARD TOP VIEW

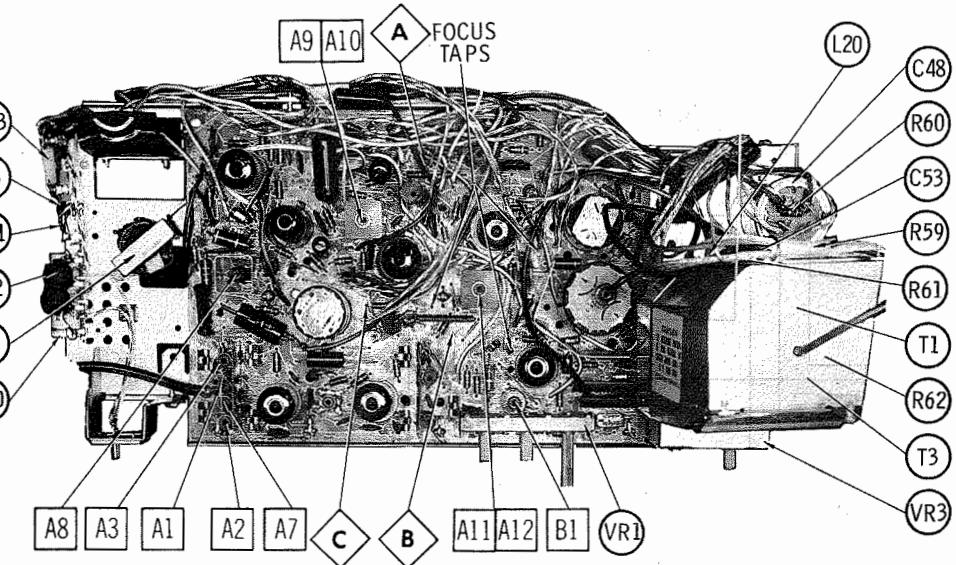


PHILCO-FORD MODELS B820TWA,
B830TWA (Ch. 20V35)

SET 1118 FOLDER 2



CABINET-REAR VIEW CHASSIS-TOP VIEW

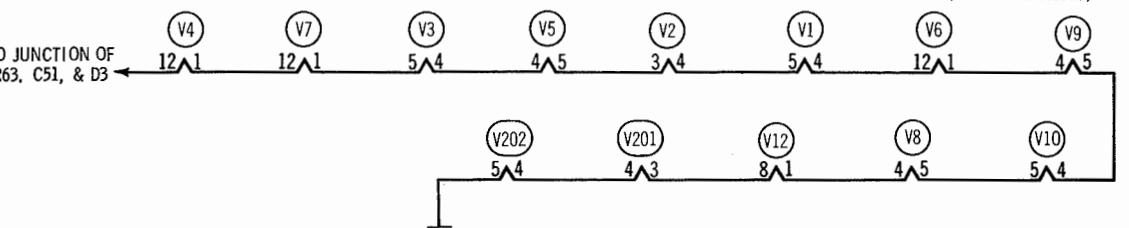


TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce indicated symptoms.

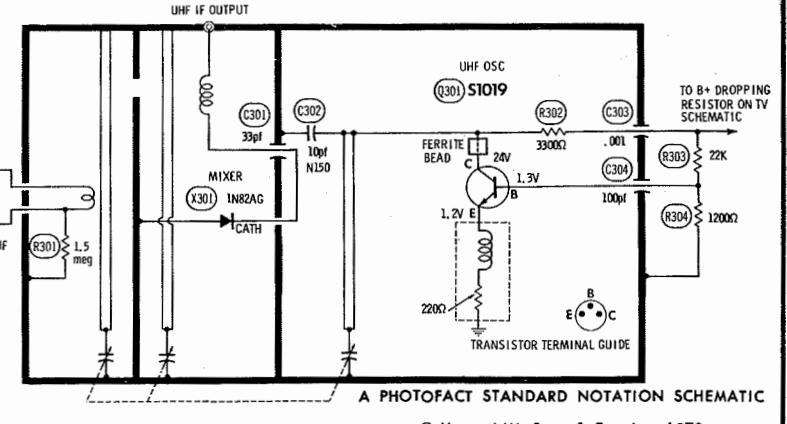
SWEEP	PICTURE OR SOUND	SYNC
No raster, has sound V4, V7, V8, V11, V12	No pic, no sound, no raster Circuit Breaker, D3, R64	No vert. sync V6
No vert. deflection V6	No pic, no sound, has raster V201, V202, V3, V9, V10, D2	No horiz. sync V8, D1
Poor horiz. lin. or foldover V6	No pic, no sound, has snow V201, V202, V9	No vert. or horiz. sync V5
Poor horiz. lin. or foldover V4, V7, V8	No pic, has sound, no raster V4, V7, V8, V11, V12	
Narrow picture V4, V7, V8	No pic, has sound, has raster V3, V12	
Vert. off freq. V6	Has pic, no sound V1, V2, V5	
Horiz. off freq. V8, DI AFC Diode	Overloaded picture V1	

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.)



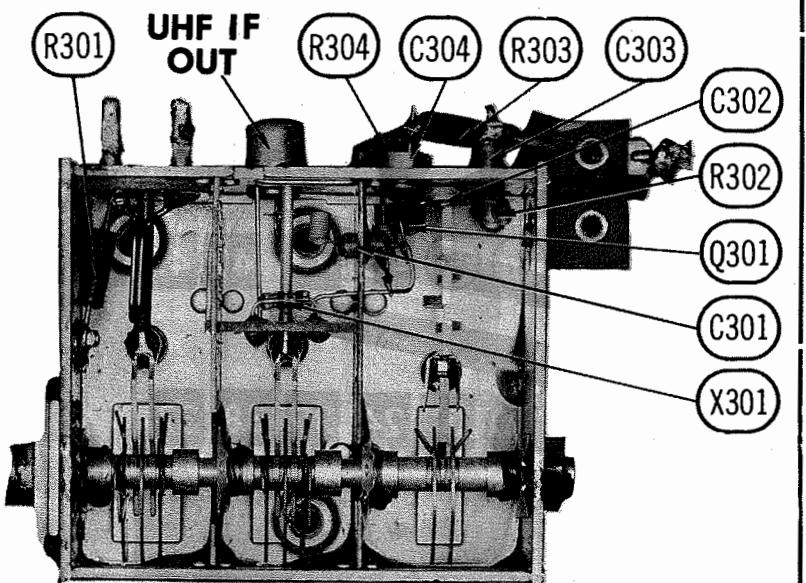
HOWARD W. SAMS & CO.,

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A PHOTOFAC STANDARD NOTATION SCHEMATIC

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PHILCO-FORD MODELS B820TWA,
B830TWA (Ch. 20V35)

FOLDER 2

TUNER MOUNTING ASSEMBLY

SERVICING IT

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 3 ohms fusistor is used for low voltage power supply protection.

VHF OSCILLATOR ADJUSTMENT

To touch up VHF oscillator, adjust oscillator slug (one for each channel). It may be necessary to adjust overall oscillator trimmer for best results.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

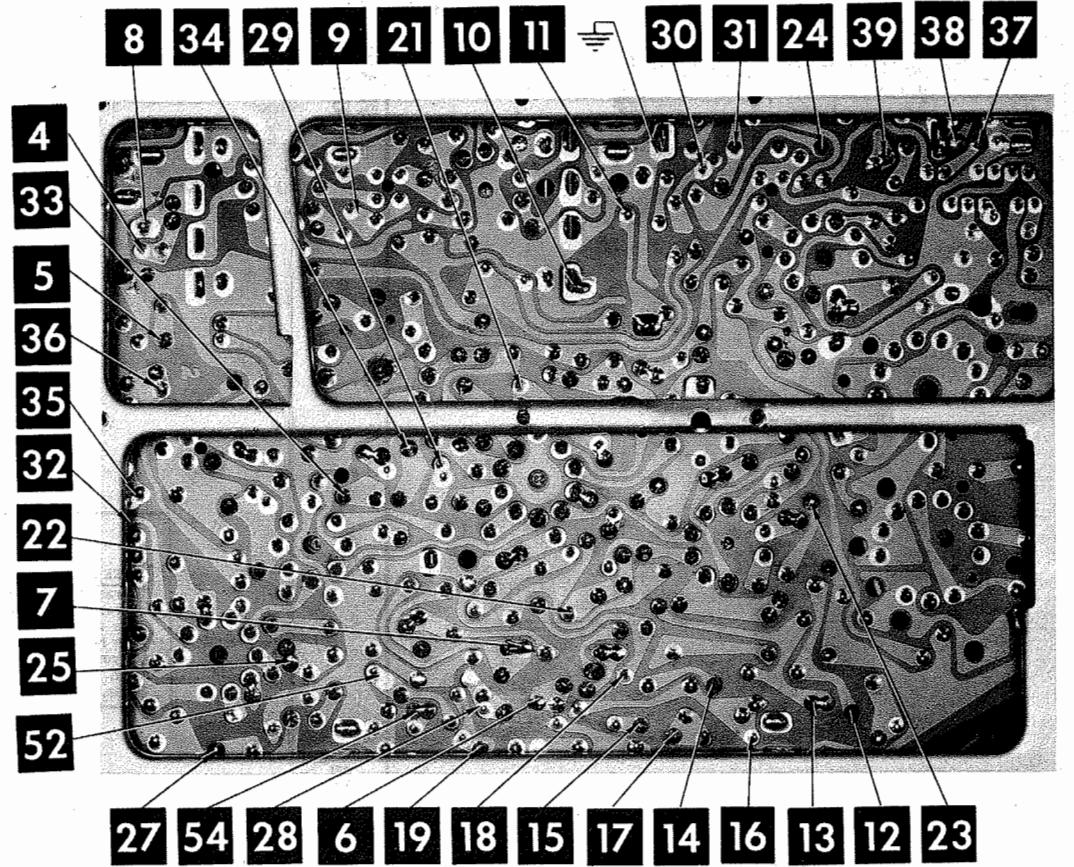
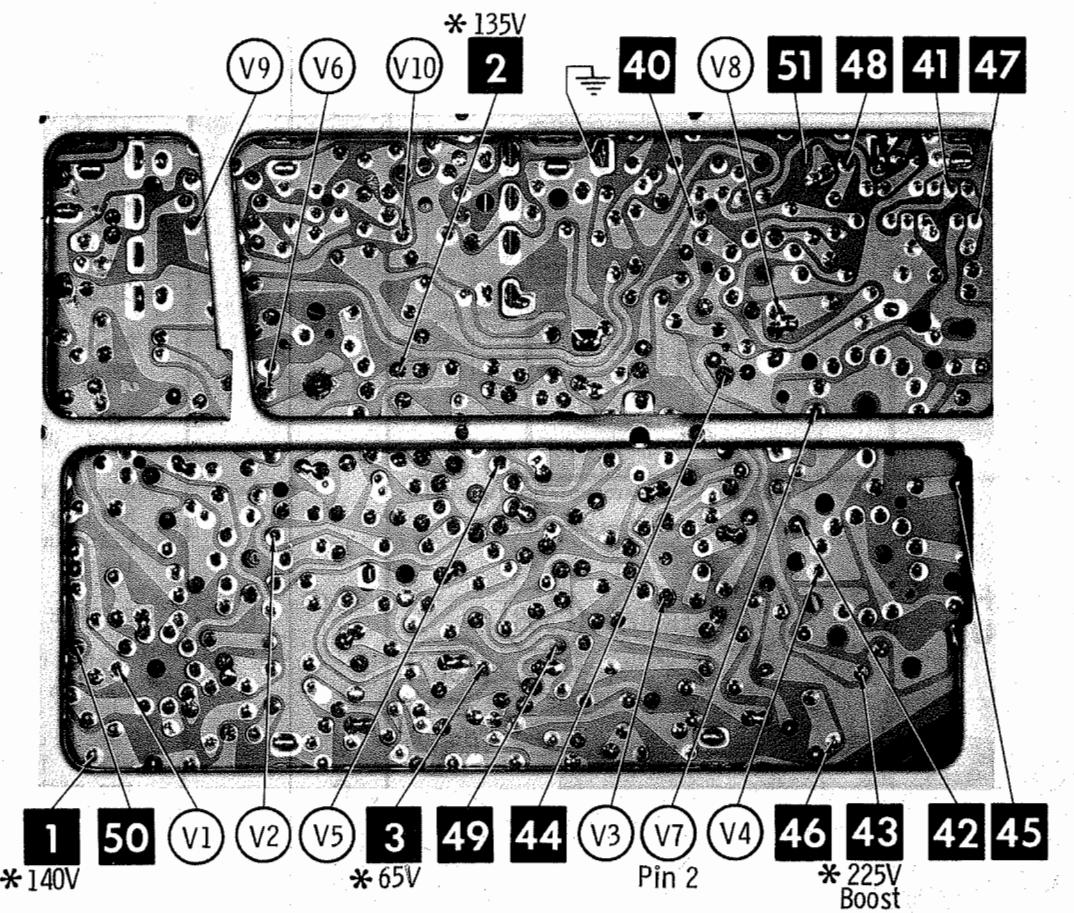
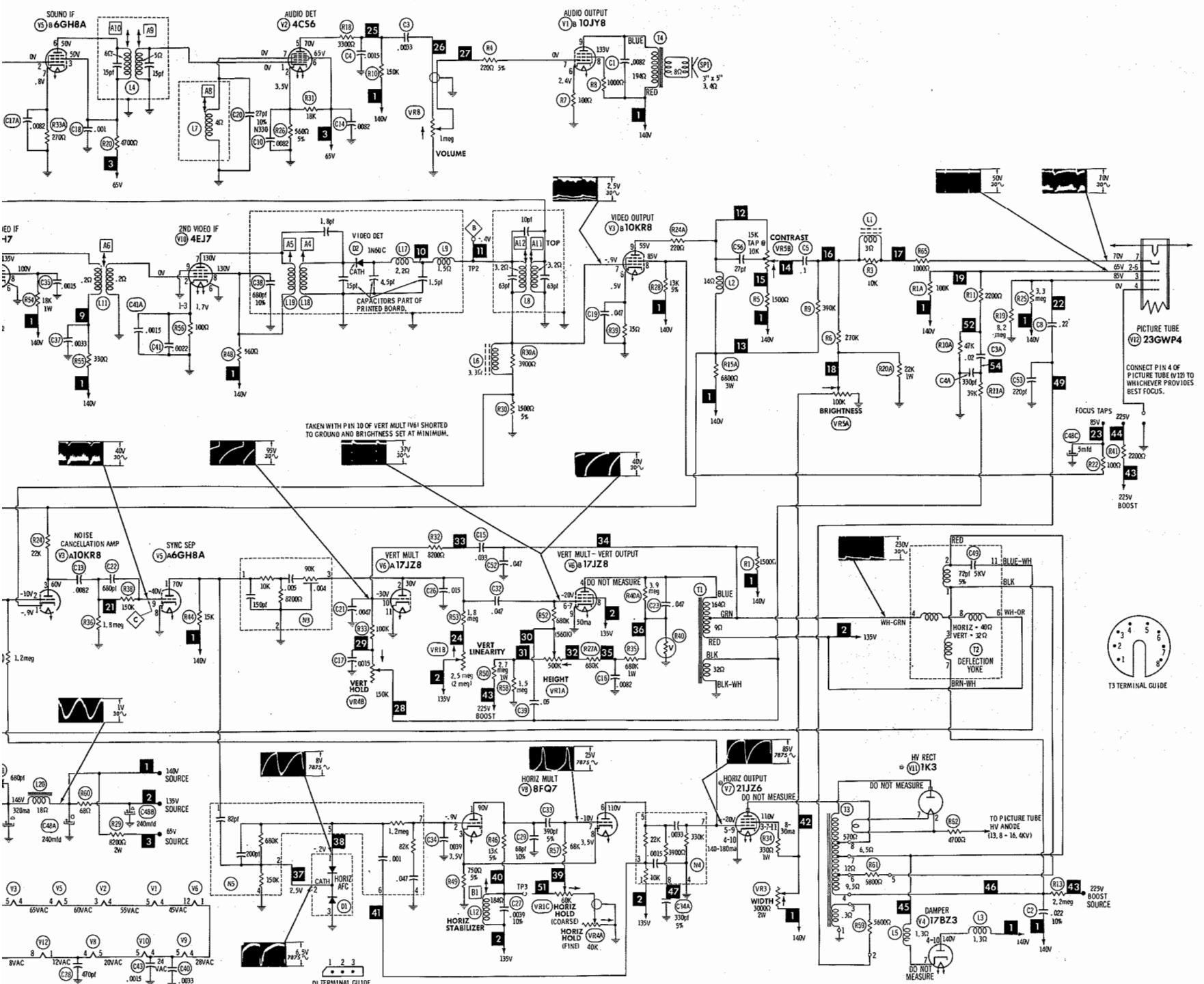
Adjustment of the horizontal hold is accomplished by the proper setting of the Horizontal Hold control, Horiz.

REMEMBER TO ASK—

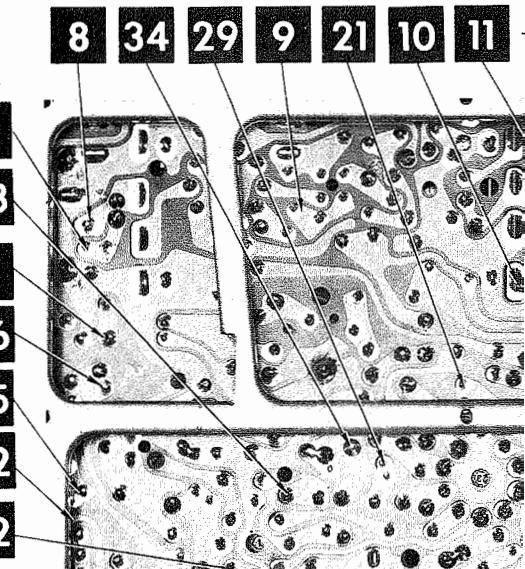
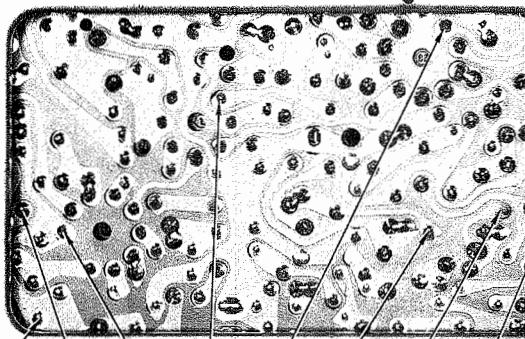
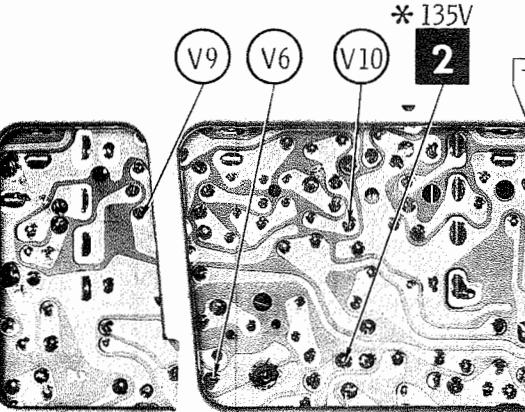
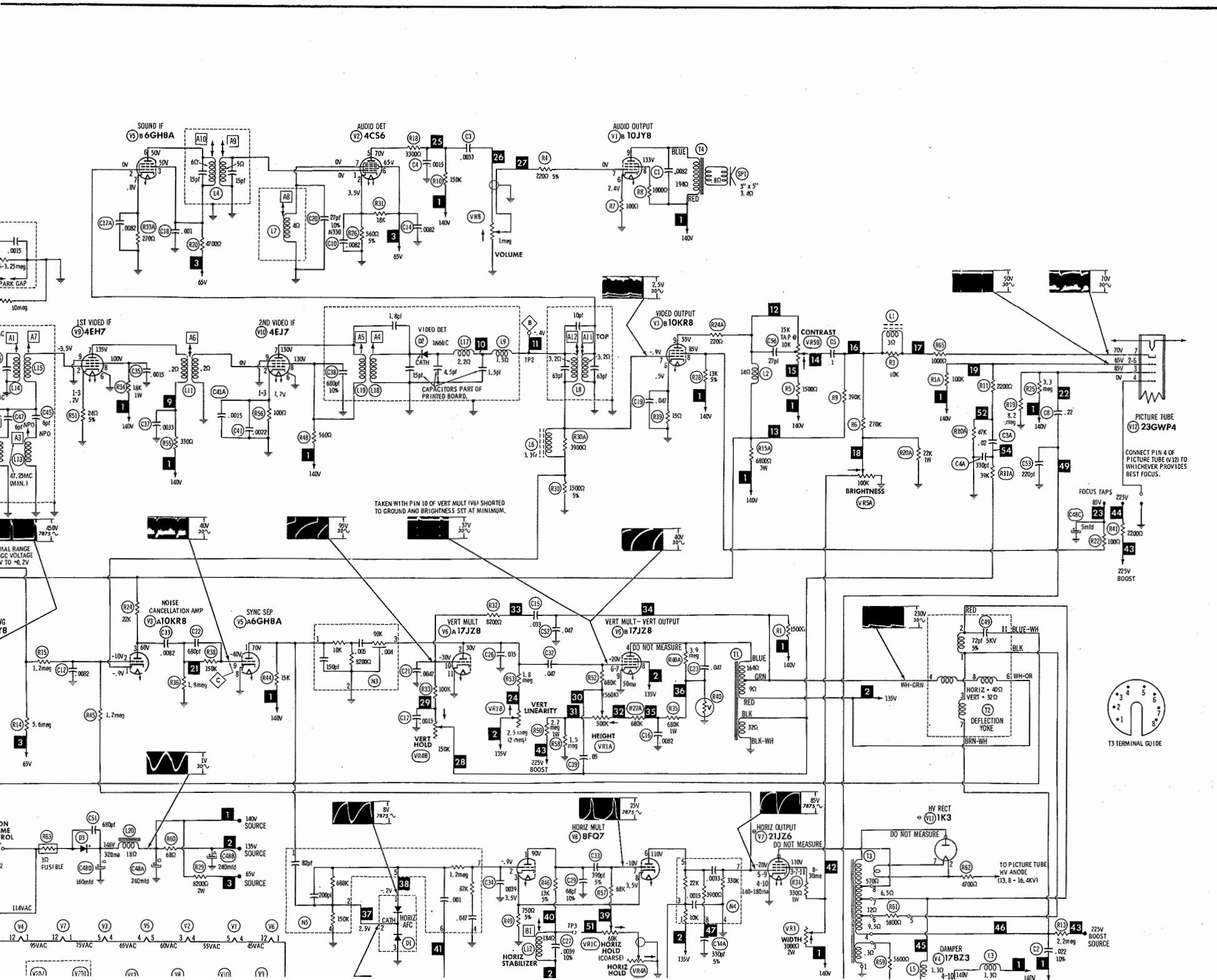
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PRINTED BOARD - BOTTOM VIEW

A Howard W. Sams CIRCUITTRACE Photo



PHILCO-FORD MODELS 8820TWA,
8830TWA (Ch. 20V35)



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	10JY8	16.5Ω †	18.2K †	1.43meg	17Ω	19Ω	100Ω	200K	1020Ω †	288Ω †				
V2	4CS6	5Ω	546Ω	20Ω	19Ω	153K †	7210Ω †	3.5Ω						
V3	10KR8	1485Ω *	844K	27.7K †	23Ω	26Ω	15Ω	1475Ω *	13K †	4870Ω †				
V4	17BZ3	33Ω	TP	TP	18Ω †	NC	NC	5.89meg	NC	NC	18Ω †	NC	39Ω	
V5	6GH8	10.5K †	2Ω	12K †	23Ω	20Ω	12K †	270Ω	0Ω	1.96meg				
V6	17JZ8	11.1Ω	2.54meg †	NC	235Ω †	NC	1.84meg	1.84meg	83Ω †	0Ω	155K	0Ω	17Ω	
V7	21JZ6	26Ω	0Ω	3260Ω †	0Ω	305K	TP	3660Ω †	TP	305K	0Ω	NC	33Ω	7.8Ω Θ
V8	8FQ7	13K †	2.3meg	750Ω	4.9Ω	8.3Ω	30K †	115K	750Ω	0Ω				
V9	4EH7	24Ω	423K	24Ω	11.1Ω	9.6Ω	0Ω	384Ω †	18K †	0Ω				
V10	4EJ7	100Ω	.1Ω	100Ω	9.6Ω	8.3Ω	0Ω	578Ω †	578Ω †	0Ω				
V11	1K3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE												525Ω Θ
V12		4.9Ω	NC	2.4meg †	0Ω	TP	40K †	155K	3.2Ω					
V201	3HQ5	1meg	0Ω	3.2Ω	2Ω	2420Ω †	0Ω	0Ω						
V202	5GJ7/ LCF801	0Ω	160K	0Ω	2Ω	0Ω	900Ω †	18K †	19K	15K				
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

* READING DEPENDS ON POLARITY OF METER CONNECTIONS.

TP TIE POINT

† MEASURED FROM CATHODE OF D3.

Θ MEASURED FROM PIN 7 OF V4.

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 A12 ... GENERAL CEMENT #8606, 8869, 9302 ... WALSCO #2511, 2543, 2588

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (point ) 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.

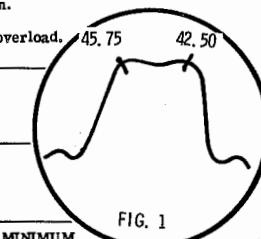


FIG. 1

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point  . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc.	41.25MC 47.25MC	A1, A2,A3	Adjust for MINIMUM.	
2. Connect vertical input of a scope to point  . Low side to ground.	Connect high side to pin 2 (grid) of V10.	44MC (10MC Sweep)	42.50MC 45.75MC	A4,A5	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point  . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc.	44MC (10MC Sweep)	41.25MC 42.50MC 44.00MC 45.75MC 47.25MC	A6,A7 and Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2.

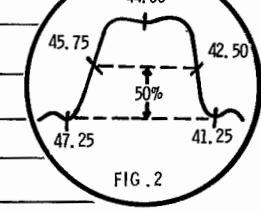


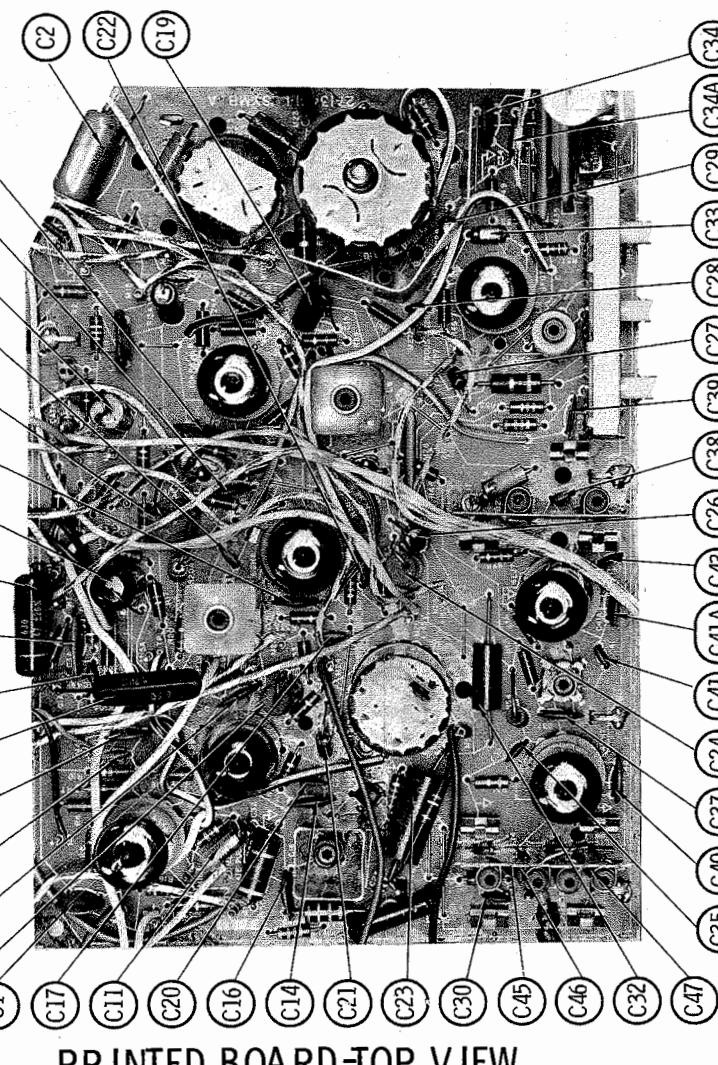
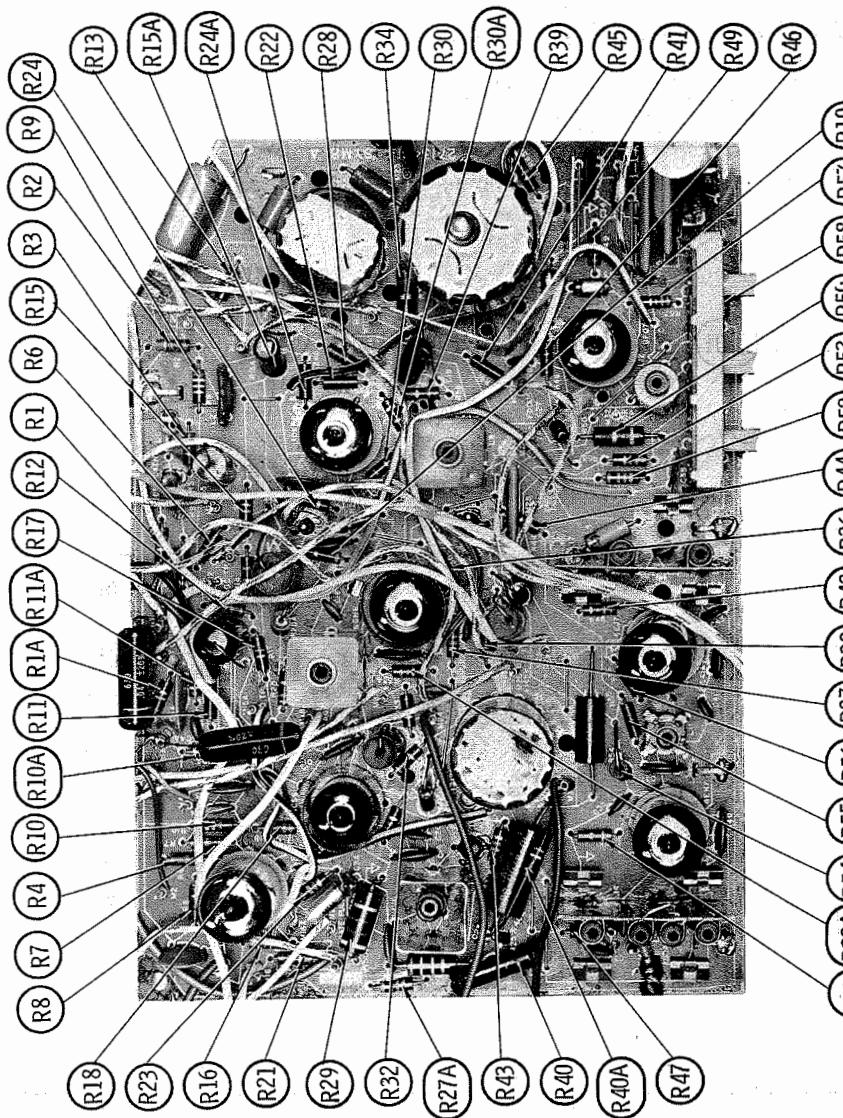
FIG. 2

SOUND IF ALIGNMENT

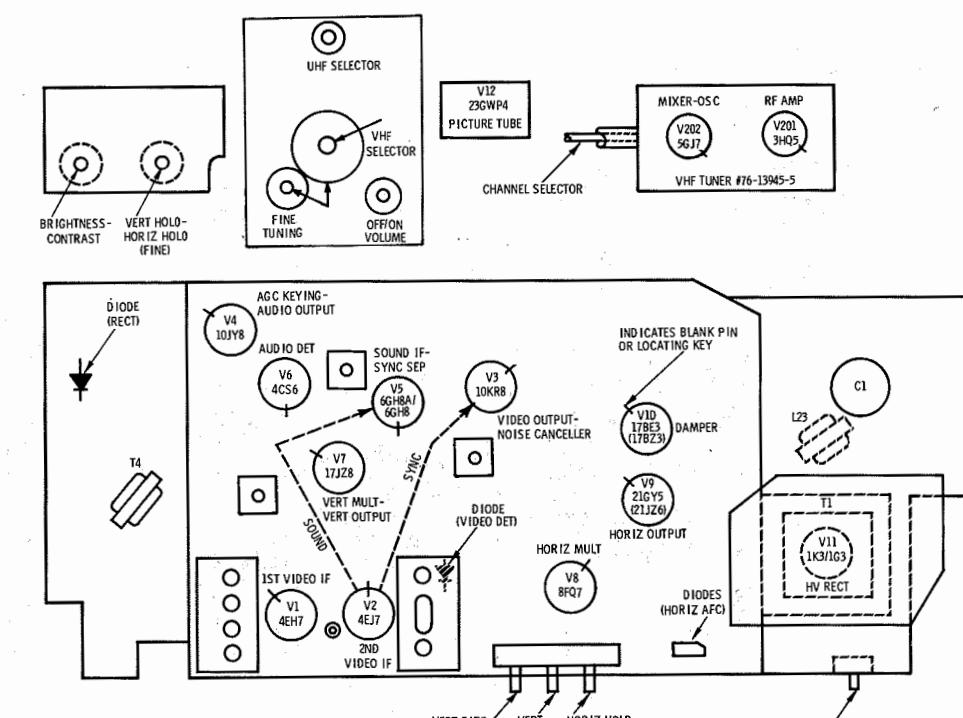
Tune in a station and adjust A8 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce signal while aligning for undistorted output by adjusting A9, A10 and A11.

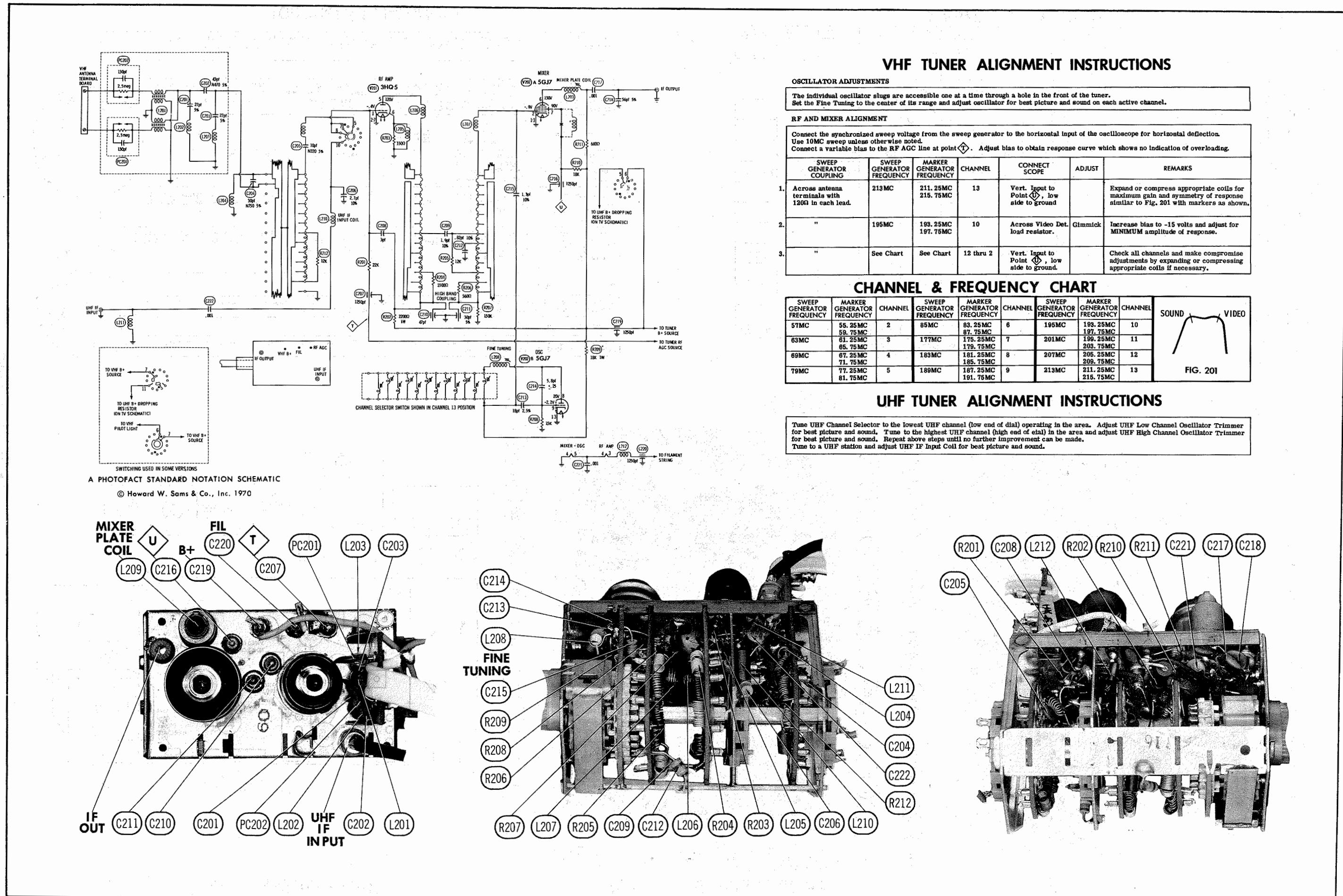
4.5 MC TRAP ALIGNMENT

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 A12 for MINIMUM beat interference.



PRINTED BOARD-TOP VIEW





VHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

TUBES

AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE		
V201	RF Amp	3HQ5	V202	Mixer - Oscillator	5GJ7		

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	5%		TCZ-27		CN0427	10TCC-Q27	
C202	43	N470	5%		TCZ-27	CN0427	10TCC-Q27	
C203	27	5%		TCZ-30		*	10TCU-Q30	
C204	30	N750	5%	#30-1251-44		*	10TCR-Q10	
C205	10	N220	5%		NPO-DI 3	*	10TCC-V27	
C206	2.7		10%	#76-13602-104			10TCC-V37	
C207	1250			NPO-DI 3			10TCC-V18	
C208	3							
C209	1.9		10%	#76-13602-07				
C210	47			#76-13602-28				
C211	30		5%	#76-13602-102				
C212	.82pf		10%	#30-1253-4				
C213	18		2.5%	#76-13602-77				
C214	5.8		.25	#76-13602-70				
C215	1.3		10%	#76-1221-36				
C216	1250			#76-13602-104				
C217	.001				DI-1000	CCD-102	GP210	10TS-D10
C218	56	5%			DD-102	GP210	10TS-O10	10TCC-Q56
C219	1250			#76-13602-104	JBS601YP102K			
C220	1250			#76-13602-104	DI-1000	CCD-102	GP210	
C221	.001				DD-102	JBS601YP102K	10TS-D10	
C222	.001							

* Not normally in distributor's stock. Available thru distributor on order to manufacturer. #PHILCO part no.

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
L201	Balun		(1)	L207	Mixer Grid		
L202	RF Choke		(1)	L208	Fine Tuning	76-13602-72	5 Turns
L203	RF Choke		(1)	L209	Mixer Plate Coil	76-13602-86	
L204	Antenna Input		(2)	L210	UHF IF Input	76-13602-34	22 Turns
L205	RF Choke		1 Turn	L211	UHF IF "Tuning	76-13946-7	8 Turns
L206	RF Plate		7 Turns	L212	Filament Decoupl.	76-13602-33	12 Turns

(1) Part of Antenna Filter Assembly.

(2) Part of RF Grid Switch.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
PC201	Antenna Isolation (1)		2.5meg, 130pf - CENTRALAB Replacement RC-428.
PC202	Antenna Isolation (1)		2.5meg, 130pf - CENTRALAB Replacement RC-428.

(1) Some versions may use 1.75-3.25meg, 130pf in this application.

UHF TUNER PARTS LIST

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
X301	S1019	UHF Oscillator	76-13570-39	GE-11	TR-24	HEP56	SK3019	ECG 108

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.		
X302	76-13570-65(1N82AG)	1N82A	1N82AG	ECG 112		

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	33							
C302	10							
C303	.001							
C304	100							
			NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10

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. 8869 (17KV)
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
300-Ohm Tuner Input Lead	8524 (Stranded) Available in 12 Colors
300-Ohm Antenna Lead-in	Use BELDEN No. 8225
Antenna Rotor Cable	Use BELDEN No. 8230 or 8275
	8484 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.		
V12	23GWP4	23GWP4 (1)	23GWP4 (1)	23GWP4 (2)	(1) Aluminized (2) Silver Screen "85"	

TUBES

ITEM No.	AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	ITEM No.	USE	ITEM No.	USE	ITEM No.	TYPE	

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.

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.
C38	680		GPD X5F681K	DD-681	JBY601YP681K	CCD-681	GP368
C39	.05 50V		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TGL-S50
C40	.0022		GPD X5F222K	DD-222	GP2200	CCD-222	1OTS-D22
C41	.0022		GPD X5F222K	DD-222	GP220	CCD-222	1OTS-D22
C41A	.0015		GPD X5F152K	DD-152	GPD X5F152K	CCD-152	GP215
C43	.0015		GPD X5F152K	DD-152	*	CCD-152	GP215
C45	6 NPO	#30-1287-12			*		1OTS-D15
C46	39 N330 5%	#30-1293-43			*		1OTCC-V56
C47	6 NPO	#30-1246-36					1OTCC-V56
C49	120 N2200/5KV/5%		DBE6P22	DMF4P22	4DP-5-224	PVC4022	4PS-P22
C50	.22 400V		GPD X5F681K	DD-681	JBY601YP681K	CCD-681	1OTS-T68
C51	680 10%		DBE6S47	DMF4S47	4DP-3-473	GP368	4PS-S47
C52	.047 400V		GPD X5F222K	DD-221	JBZ601YP221K	CCD-221	1OTS-T22
C53	220			DD-270	NP0270	CCD-270	GP427
C56	27				DPM54P22	4DP-5-224	1OTS-027
C57	.22				HV3-1000	3CCD-102	4PS-P22
C58	.001 1.4KV		DBE6P22	DD30-102			30GA-D10

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

Philco-Ford Part Number.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
VR1A	Height	500K	33-5632-4		H4(2) [A-E17,A3]	
B	Vert. Linearity	2.5meg			[B-E22,A3]	
C	Horiz. Hold (Coarse)	60K			[C-E17,A3]	
A	Height	500K	33-5595-8 (3)		H4(2) [A-E17,A3]	
B	Vert. Linearity	2meg			[B-E21,A3]	
C	Horiz. Hold (Coarse)	60K			[C-E11,A3]	
VR3	Width	3000, 2W	33-5620-1	WT-3K, WSK104 or WB2.5K or V V-3000 (4)	P1152A, P115-117-1 or [BUT,WF7,SS6] *	MR3000T, MRS1250 or MRS2500B
VR4A	Horiz. Hold (Fine)	40K	33-5618-33	NML-A-300, TT-2	(5) QJ-2538	P54L, 3014, RU15L, 0X500, IS1000
B	Vert. Hold	100K				P153T14, 3014, RU15A, 0X500, IS1000
VR5A	Brightness	100K	33-5618-32	F55-15K (1), R2-100K, FFS008, RFS100	(6) QJ-2530	RU16A, SL35, IS1875, US41 or [UA16A, SD3500, US31] or (U53, DS37, US26)
B	Contrast	15K,				
VR6	Volume/Switch	Tap @ 10K 1meg	33-5634-6	A47-1meg-Z, RS-3/16, SWE-12 or SF5212, KR-1	B13-137, SK9, 76-1 or [BU2, CF26, SS4, GC] *	IS1875, US41 or [UA16A, SD3500, US31] or (U53, DS37, US26)

(1) Do not use 5000-ohm Tap.

(2) To establish section identification of side-by-side controls (controls viewed from shaft ends, terminals down): * "SNAPTROL"

For 3-section controls, left-hand section is "A", middle section is "B", right-hand section is "C".

For 2-section controls, left-hand section is "A", right-hand section is "B".

(3) May be used in some versions.

(4) Insulate control from chassis and solder original center terminal lead to metal case of control.

(5) "CONCENTRKIT" Equivalent: K-15 Kit with base elements and shafts: B11-T23, P22-015 (Panel),

"SNAPTROL" Equivalent: BU4, CF12, CR8, SF67, SR107, DC1, B13-128, RI-100 (Rear).

(6) "CONCENTRKIT" Equivalent: K-15 Kit with base elements and shafts: B13-118X, P22-015 (Panel),

"SNAPTROL" Equivalent: BU4, CF42T, CR63, SF67, SR107, DC1, B13-128, RI-100 (Rear).

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R15A	6800 3W	3G-6800	33-1363-46
R40	VDR *	(560V @ 10ma)	33-1373-6

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R63	3-ohm Fusible		33-1381-5

* Voltage Dependent Resistor

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Peaking (180uh)	32-4762-7	19-3180	6180	T344
L2	Peaking (330uh)	32-4762-20	19-3330	6132	T349
L3	RF Choke (9uh)	32-4112-62	19-2015	4611	T860
L4	Sound Interstage	32-4745-12	17-3489	6270-PC	T255
L5	RF Choke (9uh)	32-4112-62	19-2015	4611	T860
L6	Peaking (220uh)	32-4762-25	19-2027	72F224AP	T345
L7	Quadrature	32-4876-1		Q-101	TB289
L8	Sound Takeoff/4.5MC Trap	32-4688-13	17-3489	6270-PC *	TE208 *
L9	RF Choke (3uh)	32-4645-7	19-1002	74F336AP	TB294
L10	RF Choke (7 turns)	32-4652-96		7513-P	T696
L11	2nd Video IF	32-4686-34			
L12	47.25MC Trap	32-4652-78			
L13	41.25MC Trap	32-4652-80			
L14	1st Video IF	32-4652-79			
L15	47.25MC Trap	32-4652-78			
L16	RF Choke (22uh)	32-4837-1			
L17	3rd Video IF (Sec.)	32-4652-79			
L18	3rd Video IF (Pri.)	32-4652-78			
L19	Line Choke	32-4857-1			
L20	Line Choke	32-4857-1			
L21	Line Choke	32-4857-1			

* Add 10pf capacitor externally.

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.

COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFGR. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.
L22	Horiz. Stabilizer	32-4754-3	TV-250	6342			T183

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			
CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.

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