

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a clip lead across Horizontal Stabilizer Coil (L19). Set the Horizontal Hold to the center of its range. Tune in a TV station and adjust Horizontal Hold Centering (R6A) until the picture appears to float back and forth across the screen. Remove the clip lead from across L19 and adjust the Horizontal Stabilizer Coil Slug (B1) until the

picture synchronizes horizontally. Change channels to see that the picture remains in sync.

Adjust Width control (R6B) until the picture is slightly wider than necessary to fill the screen.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove volume and channel selector knobs.
2. Remove rear cover held by 11 screws and disconnect antenna leads.
3. Disconnect high voltage lead, picture tube socket, yoke plug, speaker leads, and picture tube grounding lead.
4. Remove 4 screws from bottom of cabinet and 2 screws holding the

remote control receiver chassis.

5. Remove TV chassis and remote control receiver microphone.

PICTURE TUBE REMOVAL

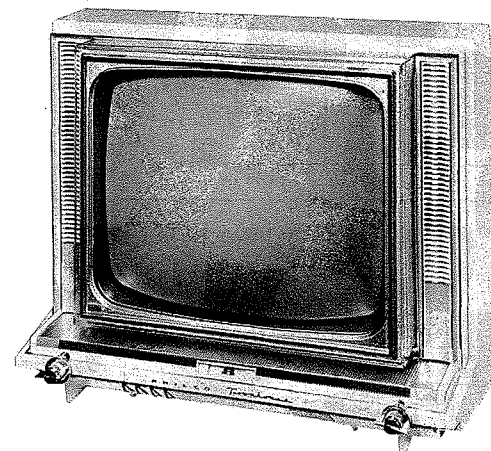
1. Follow "Chassis Removal" instructions.
2. Place cabinet face down on a soft protective surface, and remove the picture tube retaining wire bolt and the picture tube.

SET 650 FOLDER 2

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

PHOTOFACT® Folder

with CIRCUITRACE®



MODEL L3814RWH

TRADE NAME	PHILCO	Models	Chassis	VHF Tuners
	L3804BE		13J41	TT-82, TT-83
	L3814RWH		13J42	TT-125, TT-125A
	L3808BK/WH, L3810WA		13J43	TT-126, TT-129
	L3804CBE, L3808CBK/CWH, L3810CWA		13J43C	
	UL3804BE, UL3808BK/WH, UL3810WA		13J43U	
	L3740BE/CG		13J45	
	UL3740BE/CG		13J45U	
MANUFACTURER	Philco Corp., A Subsidiary of Ford Motor Co., Tioga & "C" Streets, Philadelphia, Pennsylvania			
TYPE SET	Television Receiver (Ch. 13J42 with Remote Control)			
TUBES	VHF - Fifteen, UHF - Sixteen			
POWER SUPPLY	110-120 Volts AC, 60 Cycles			
RATING	170 Watts, 1.7 Amp. @ 117 Volts AC (Includes Remote Control Receiver)			
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

Pull off clear plastic mask and remove 4 brackets and safety glass.

FUSE OR FUSE DEVICE

A #26 fuse wire (M1) is used for filament protection, a fusible resistor for LV supply protection. (For location, see M1 in photo, page 16, and fusible resistor, page 20.)

VHF OSCILLATOR ADJUSTMENT TUNERS TT-82, TT-83

The fine tuning mechanically engages osc. slug for adjustment (one slug for each channel). If any channel has insufficient fine tuning range, adjust overall osc. trimmer and recheck all active channels.

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 Slug. (See Photo, page 16 for B1 Adjustment location.)

WIDTH

The width may be varied by a Width control. (See "Tube Placement Chart" 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" photo.)

CENTERING

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

PINCUSHION CORRECTION

Reduce the picture so that the left side of the raster is visible. Position magnet so that the left side is straight.

PIC. TUBE EQUALIZER (G#2) ADJUSTMENT

Adjust Brightness and Contrast controls for maximum and apply -1.5 volts at point (B). Connect a DC microamp meter in series with picture tube cathode and adjust Equalizer control (R4) for approximately 220 microamps.

IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

INDEX

Remote Control RC-68 SET 650, FOLDER 2-A

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

SET 650 FOLDER 2

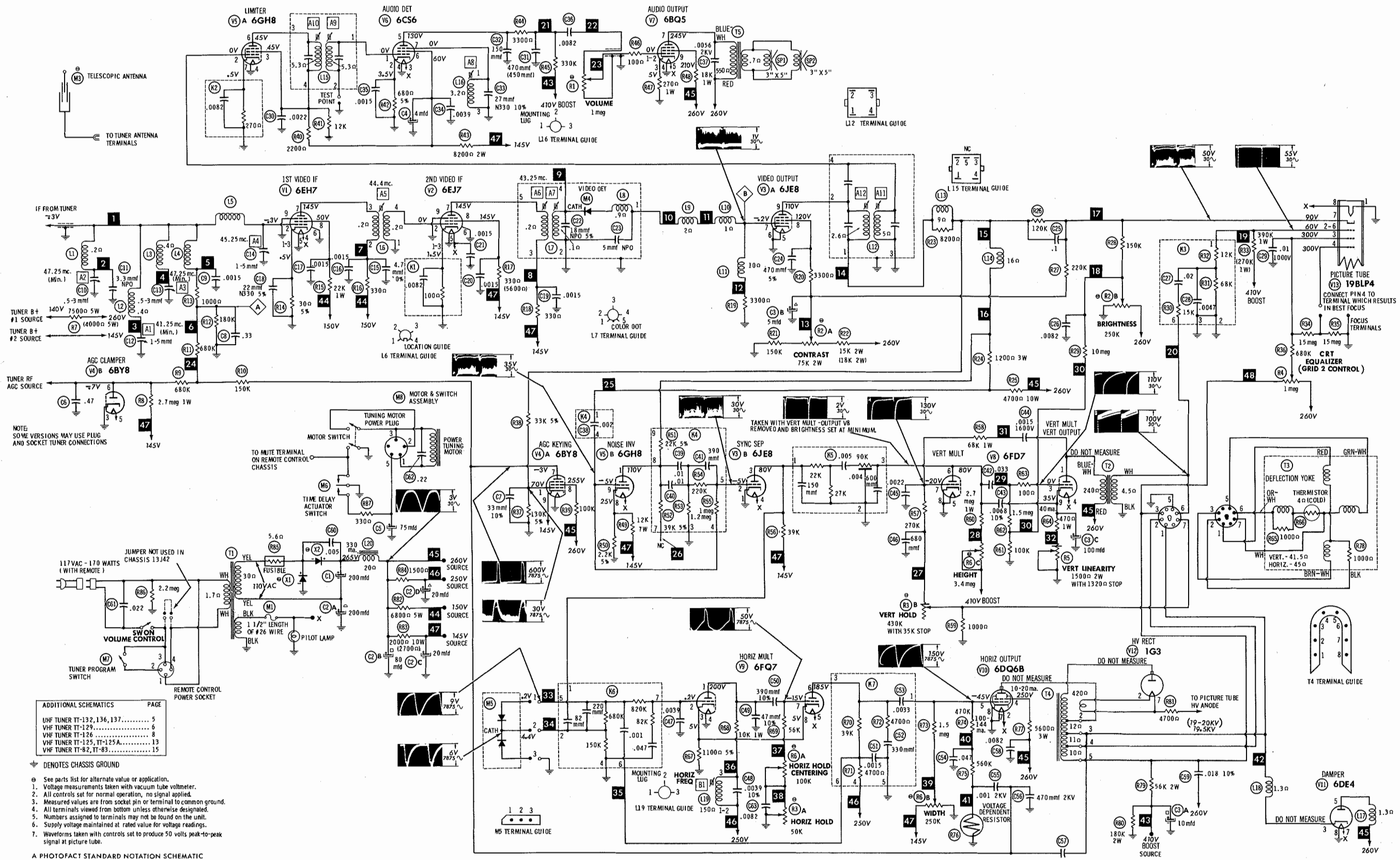
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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.
MA191

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DATE 8-63

SET 650 FOLDER 2



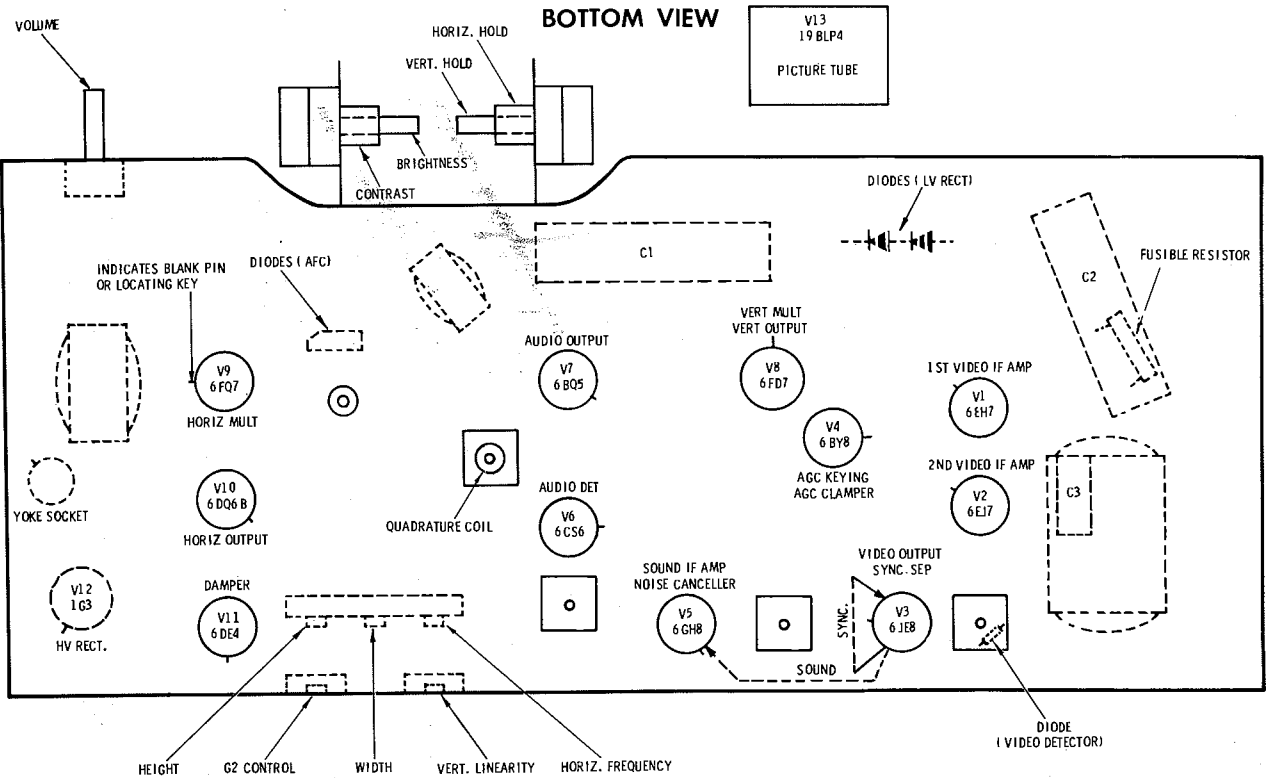
PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2

RESISTANCE MEASUREMENTS

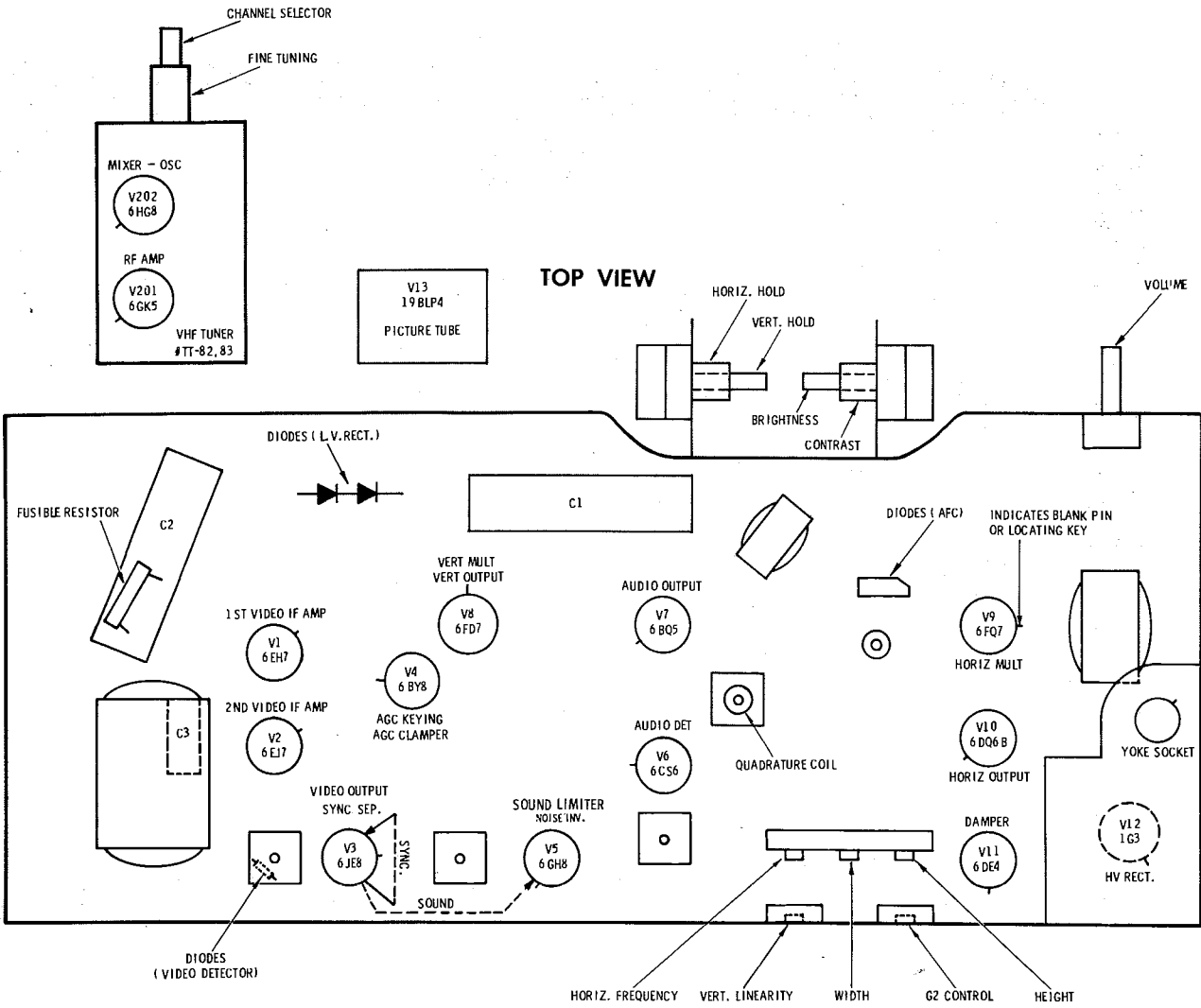
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6EH7	30Ω	175K	30Ω	FIL	FIL	0Ω	†7100Ω	†29K	0Ω
V2	6EJ7	100Ω	0Ω	100Ω	FIL	FIL	0Ω	†2500Ω	†2500Ω	0Ω
V3	6JE8	0Ω	1.5meg	†24K	FIL	FIL	0Ω	1200Ω	†22K	†5800Ω
V4	6BY8	37K	TP	0Ω	FIL	FIL	†1.1meg	900K	†100K	†2000Ω
V5	6GH8	†3000Ω	5.2Ω	†9500Ω	FIL	FIL	†9500Ω	270Ω	2100Ω	2.4meg
V6	6CS6	5.8Ω	680Ω	FIL	FIL	†450K	†8100Ω	3.6Ω		
V7	6BQ5	NC	65K	270Ω	FIL	FIL	NC	†570Ω	NC	†18K
V8	6FD7	†260Ω	NC	1.8meg	FIL	FIL	†3.9meg	340K	0Ω	840K
V9	6FQ7	†12K	1.5meg	1100Ω	FIL	FIL	†45K	150K	1100Ω	0Ω
V10	6DQ6B	NC	FIL	NC	†5600Ω	1.6meg	NC	FIL	0Ω	TOP CAP †13Ω
V11	6DE4	NC	NC	†170K	NC	†24Ω	NC	FIL	FIL	
V12	1G3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †433Ω
V13	19BLP4	FIL	NC	†770K	†770K	NC	†250K	56K	FIL	
V201	6GK5	0Ω	1.2meg	FIL	FIL	†8700Ω	0Ω	0Ω		
V202	6HG8	0Ω	220K	0Ω	FIL	FIL	10K	†12K	†2500Ω	†5700Ω

† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
† MEASURED FROM OUTPUT OF X2. TP TIE POINT NC NO CONNECTION
† MEASURED FROM PIN 3 OF V11. • VHF TUNER TT-83.



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. Filament Fuse M1, Fusible Resistor R85, Selenium Rectifier X1, X2.
SWEEP FAILURE
No raster, has sound. V8, V10, V11, V12, V13.
No vertical deflection. V8.
Poor vert. linearity or foldover. V8.
Poor horiz. linearity or foldover. V9, V10, V11.
Narrow picture. V9, V10, V11, X1, X2.
Vert. off freq. V8.
Horiz. off freq. AFC Diode M5, V9.

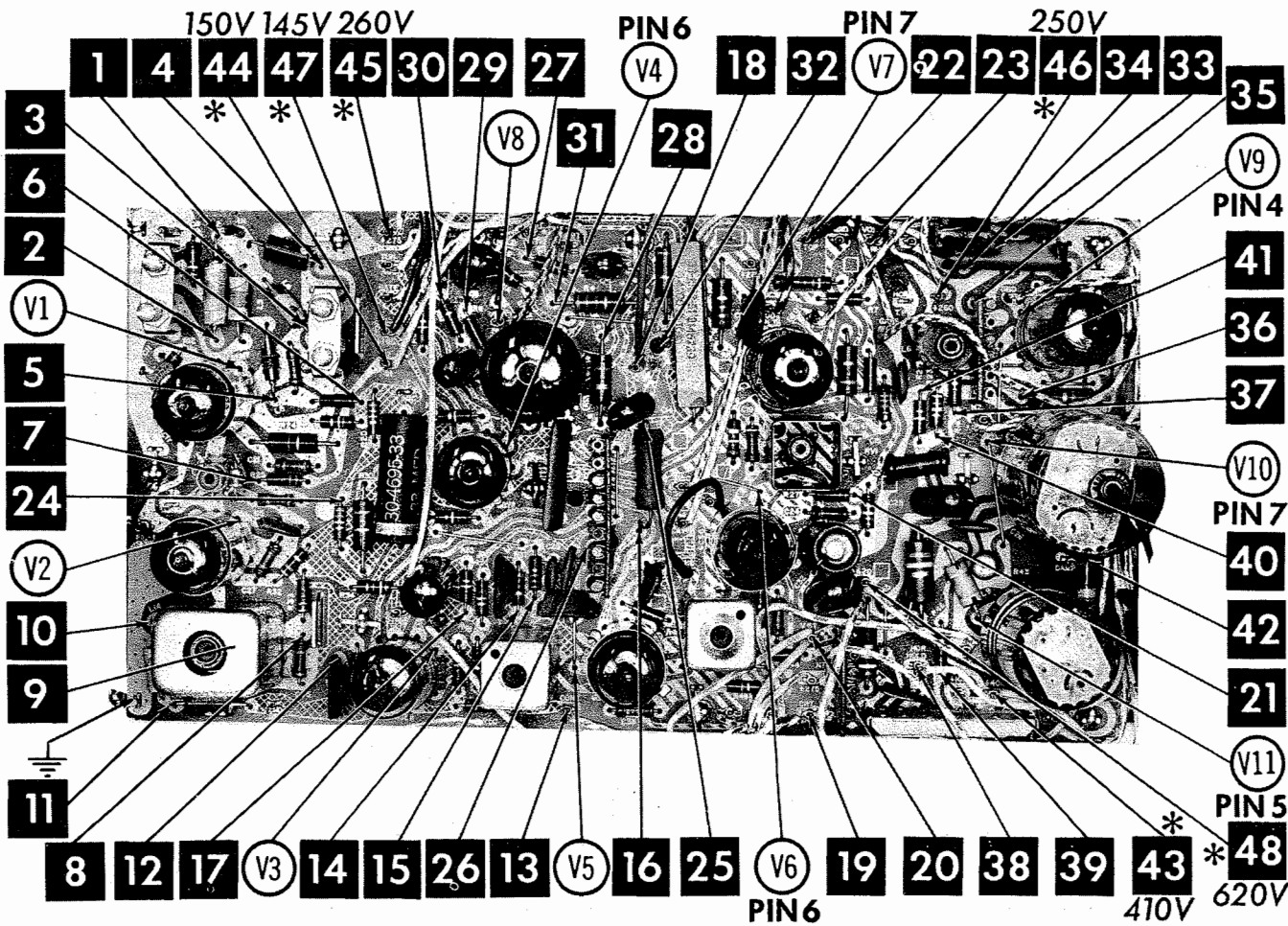
LOSS OF PICTURE OR SOUND
No pic, no sound, has raster. V1, V2, Video Det. M4, V3.
No pic, no sound, has snow. V201, V202, V1.
No pic, has sound, has raster. V3, V13.
Has pic, no sound. V5, V6, V7.
Overloaded picture. V4.

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

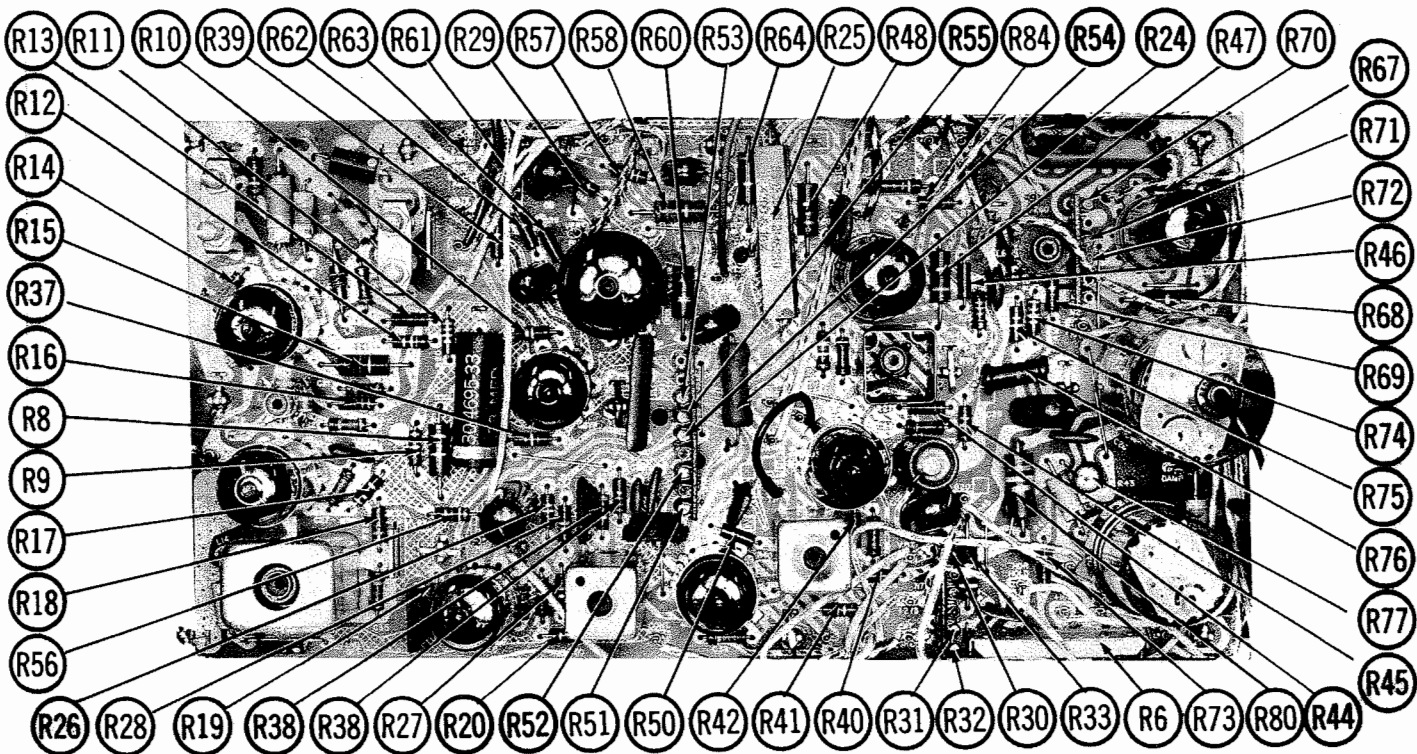
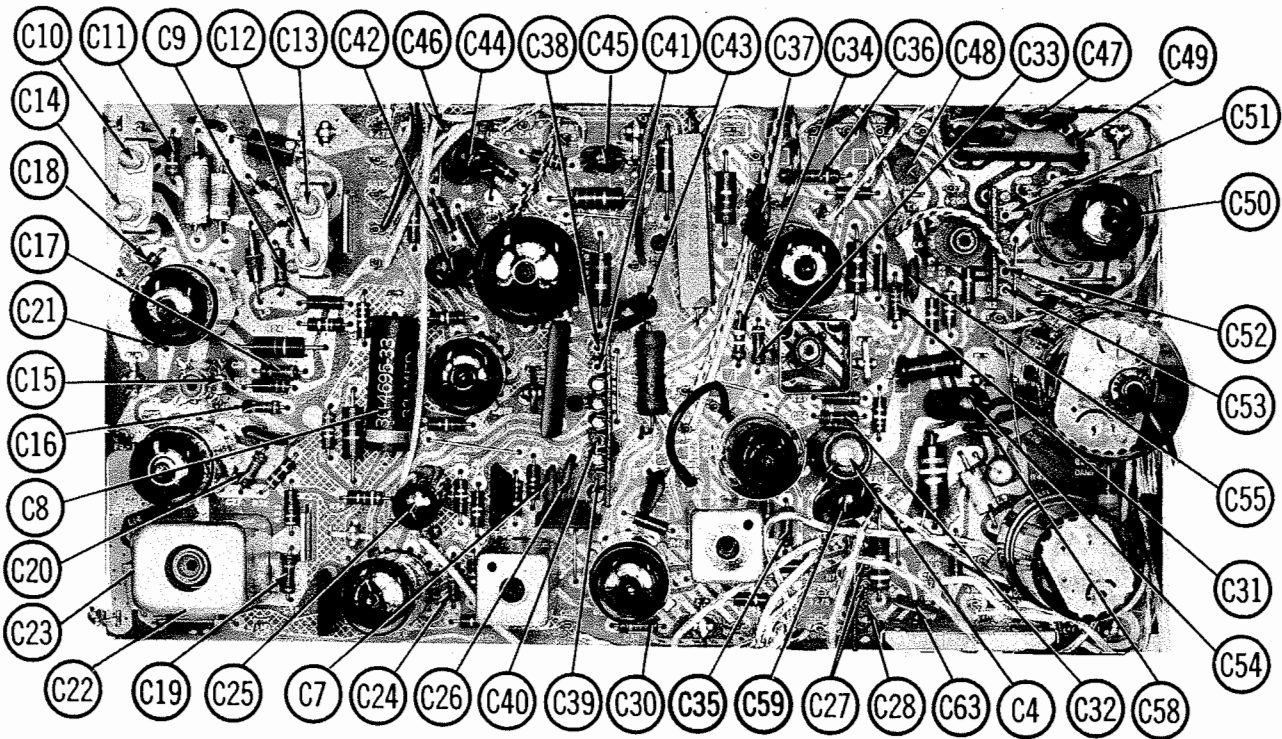
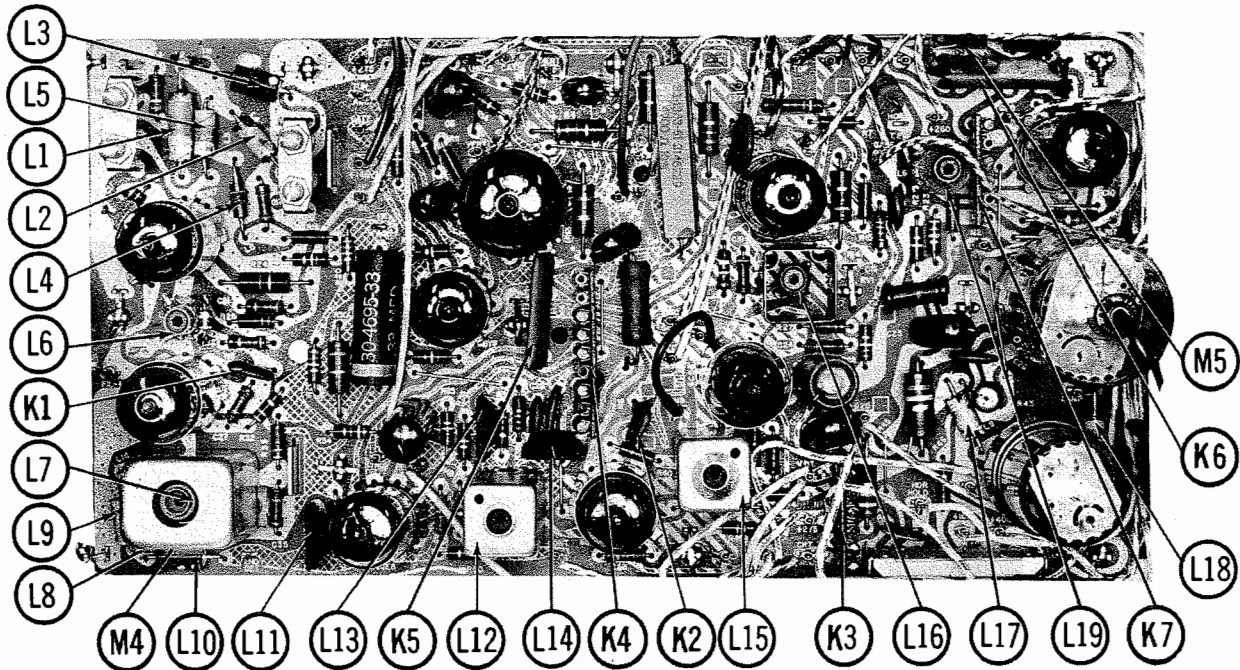
PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2

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



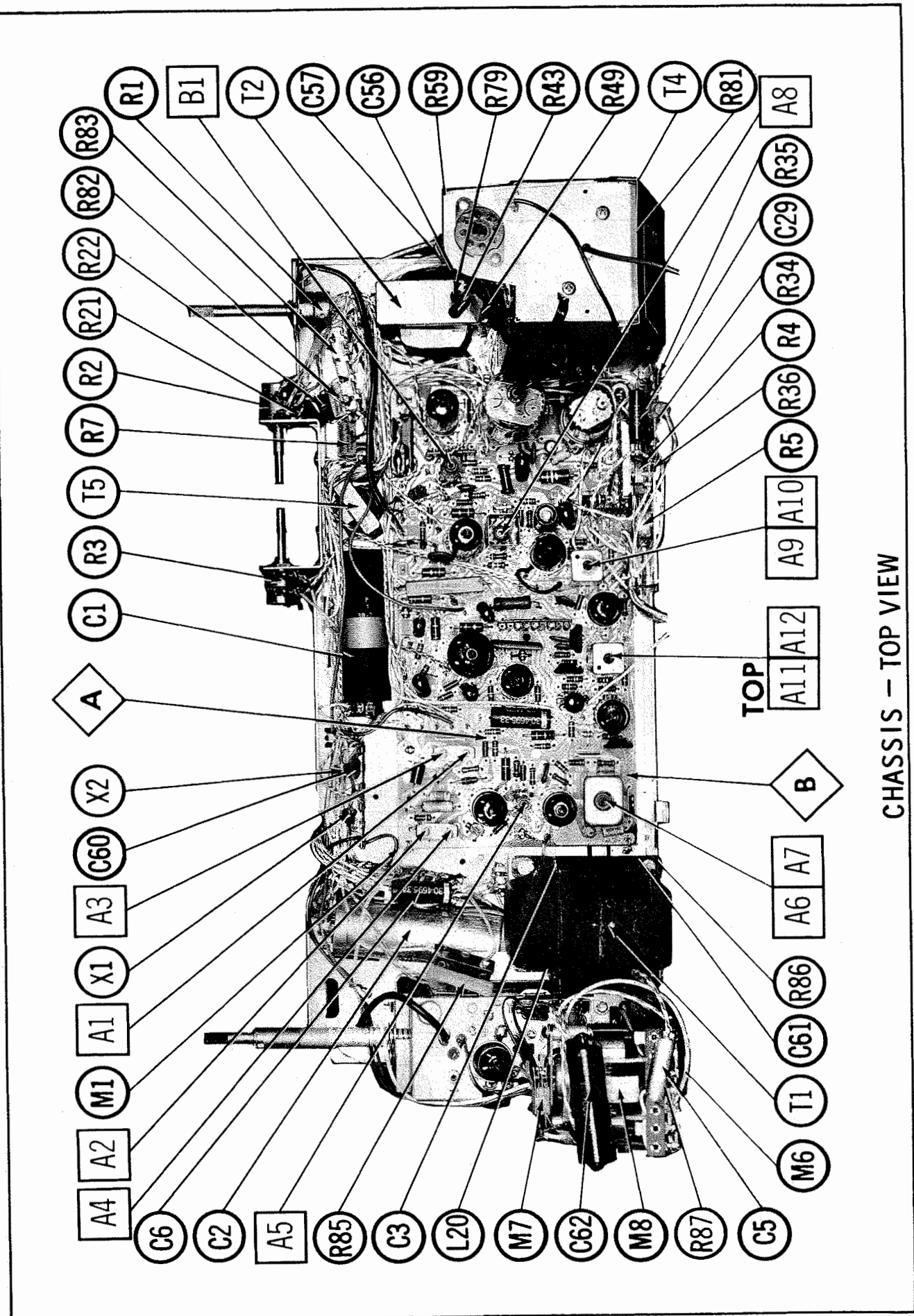
* SOURCE



PRINTED BOARD

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2



CHASSIS — TOP VIEW

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 A4 GENERAL CEMENT #9087, 8290, 8868 WALSCO #2525, 2528, 2587
A5 thru A12, Mixer Plate Coil .. GENERAL CEMENT #8608, 8606L, 8869 WALSCO #2543, 2544, 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 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 A. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25 MC 47.25 MC	A1 A2, A3	Adjust for MINIMUM.
2. 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.		45.25 MC 44.4 MC 43.25 MC 42.0 *	A4 A5 A6, A7, Mixer Plate Coil	Adjust for maximum. * Use 42.9 MC on 13-position Tuner.
3. Connect vertical input of a scope to point C. Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44 MC (10 MC Sweep)	41.25 MC 42.25 MC 44.0 MC 45.5 MC 47.25 MC		Check 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 A4, A5, A6, A7, and Mixer Plate Coil.

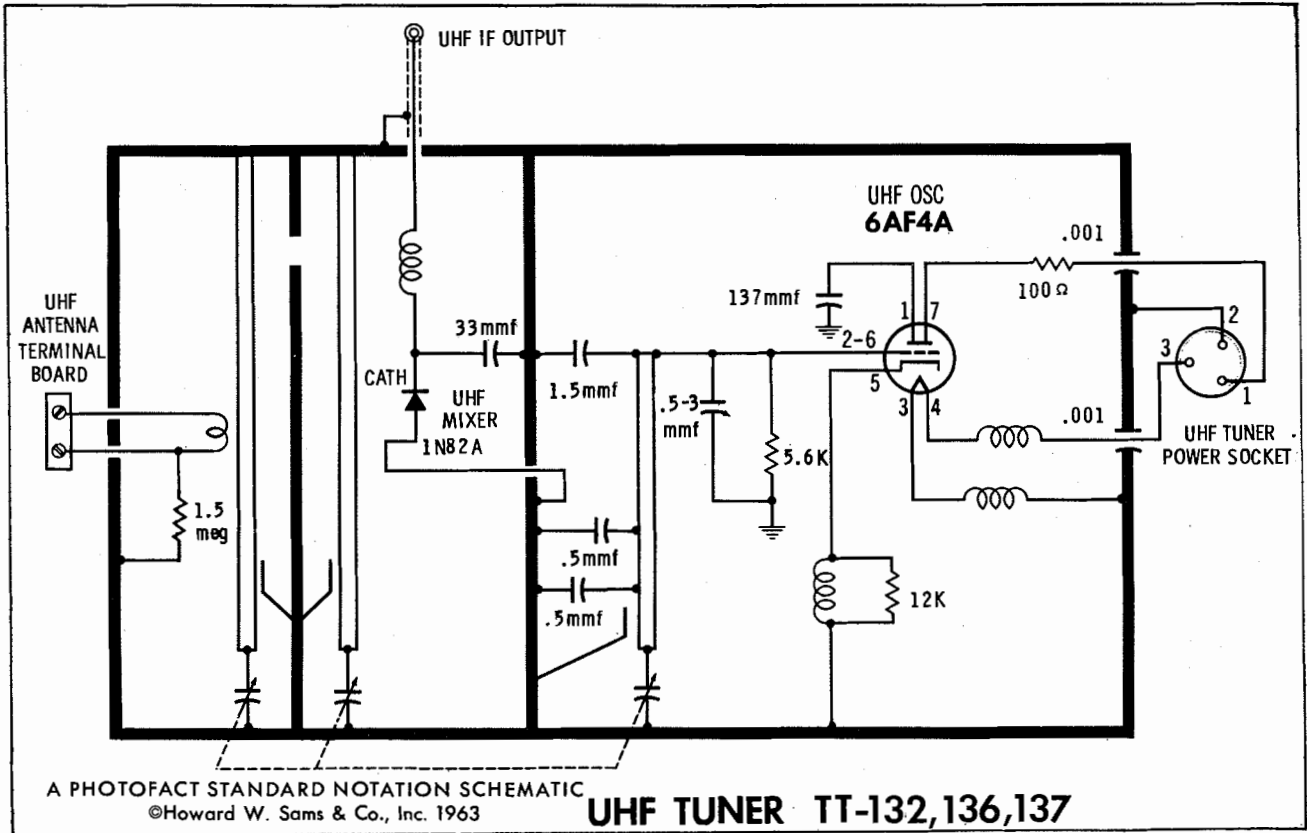
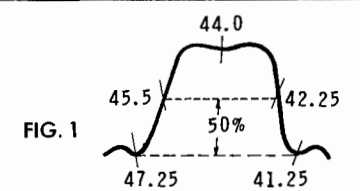
SOUND IF ALIGNMENT

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 A8, 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.

ALIGNMENT IDENT. PHOTO PAGE 16



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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UHF TUNER TT-132, 136, 137
SET 650 FOLDER 2

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2

VHF TUNER ALIGNMENT INSTRUCTIONS

OSCILLATOR ALIGNMENT TUNERS TT82, TT83

The oscillator on each channel is preset by means of the fine tuning. Adjust for best picture and sound on each active channel. If any channel is not within range of the fine tuning, adjust overall oscillator adjustment and recheck all active channels.

OSCILLATOR ALIGNMENT TUNERS TT-125/A

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

OSCILLATOR ALIGNMENT TUNERS TT-126, TT-129

The oscillator on each channel is preset by means of the fine tuning. Adjust the fine tuning for best picture and sound on each active channel.

RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect variable bias to RF AGC line at point U. Adjust bias to obtain response curve which shows no indication of overloading. Suggested Alignment Tools: GENERAL CEMENT #9087, 8290, 8868; WALSCO #2525, 2528, 2587

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	TUNERS TT-125, 125/A, 126, 129
1. Across antenna terminals with 120Ω in each lead.	213MC	211. 25MC 215. 75MC	13	Vert. Input to point U, low side to ground.		Adjust Channel 13 RF and Mixer Coils by expanding or compressing turns for response curve similar to Figure 201.
2. "	195MC	193. 25MC 197. 75MC	10	Across Video Det. load resistor.		Increase bias to -15 volts and adjust gimmick for MINIMUM amplitude of response curve.
3. "	177MC	175. 25MC 179. 75MC	7	Vert. Input to point U, low side to ground.	A201	Adjust for maximum gain and symmetry of response similar to Figure 201 with markers as shown.
4. "	207MC	205. 25MC 209. 75MC	12	"		Check response on all channels and make compromise adjustments of A201 and channel 13 coils.
	201MC	199. 25MC 203. 75MC	11			
	189MC	187. 25MC 191. 75MC	9			
	183MC	181. 25MC 185. 75MC	8			
5. "	85MC	83. 25MC 87. 75MC	6	"		Adjust Channel 6 RF and Mixer Coils by expanding or compressing turns for response curve similar to Figure 201. Adjust for maximum gain and symmetry of response similar to Figure 201 with markers as shown. Adjust by expanding or compressing coil turns.
	79MC	77. 25MC 81. 75MC	5			
	69MC	67. 25MC 71. 75MC	4			
	63MC	61. 25MC 65. 75MC	3			
	57MC	55. 25MC 59. 75MC	2			

Tune in a UHF station and adjust UHF IF input coil for best picture and sound.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	TUNERS TT-82, TT-83
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, A202	Adjust for maximum gain and symmetry of response similar to Figure 201 with markers as shown.
2. "	195MC	193. 25MC 197. 75MC	10	Across Video Det. load resistor.	A203	Increase bias to -15 volts and adjust for MINIMUM amplitude of response curve.
3. "	207MC	205. 25MC 209. 75MC	12	Vert. Input to point U, low side to ground.		Check response on all channels and make compromise adjustments of A201 and A202 if required.
	201MC	199. 25MC 203. 75MC	11			
	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			

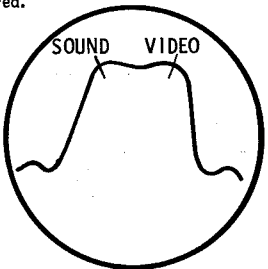
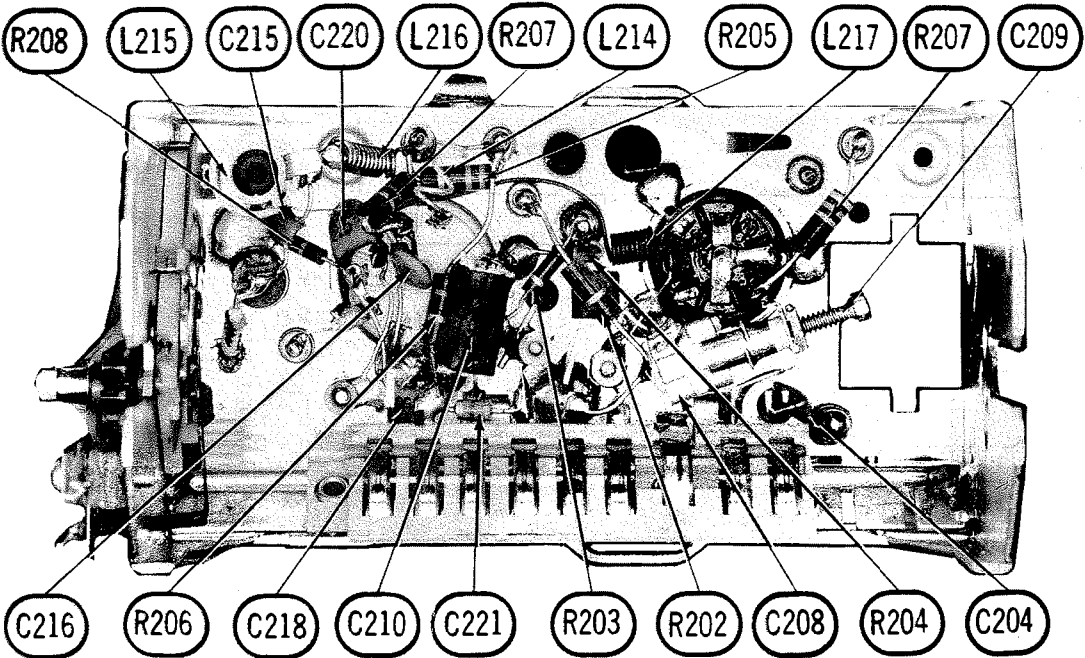
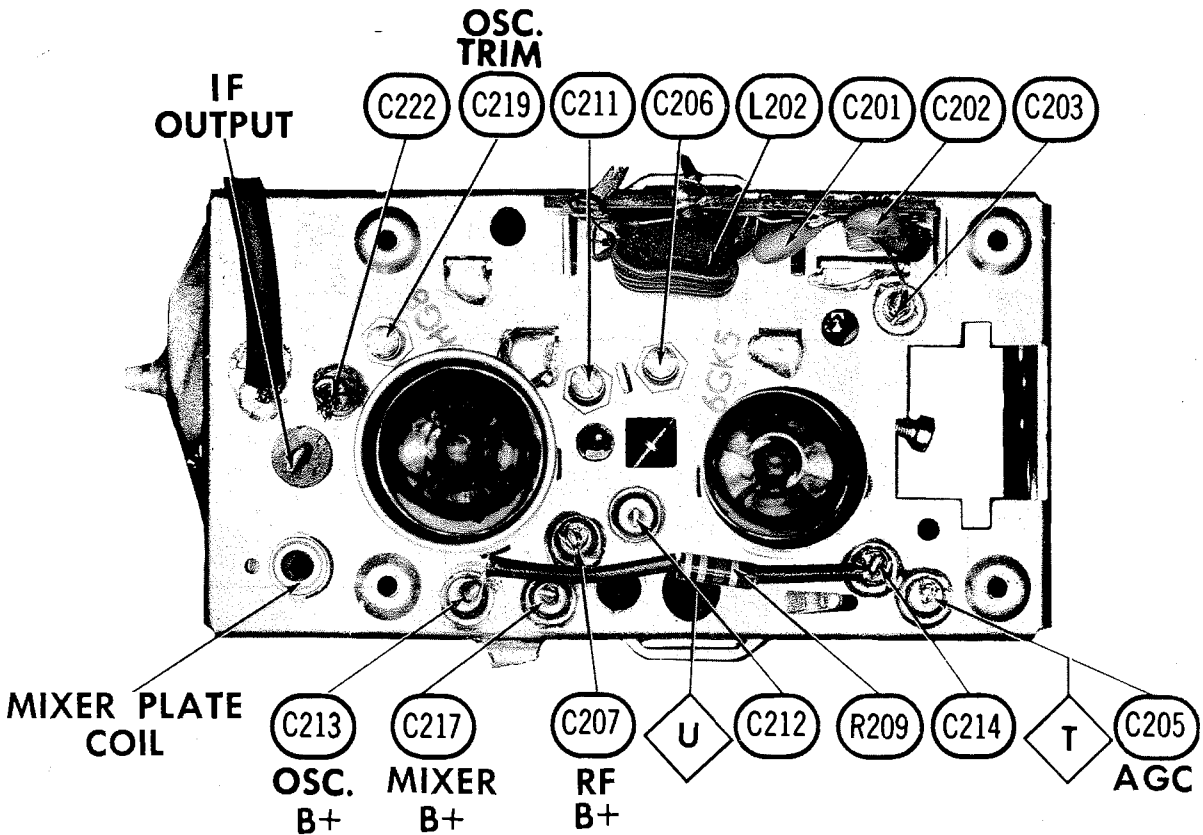


FIG. 201

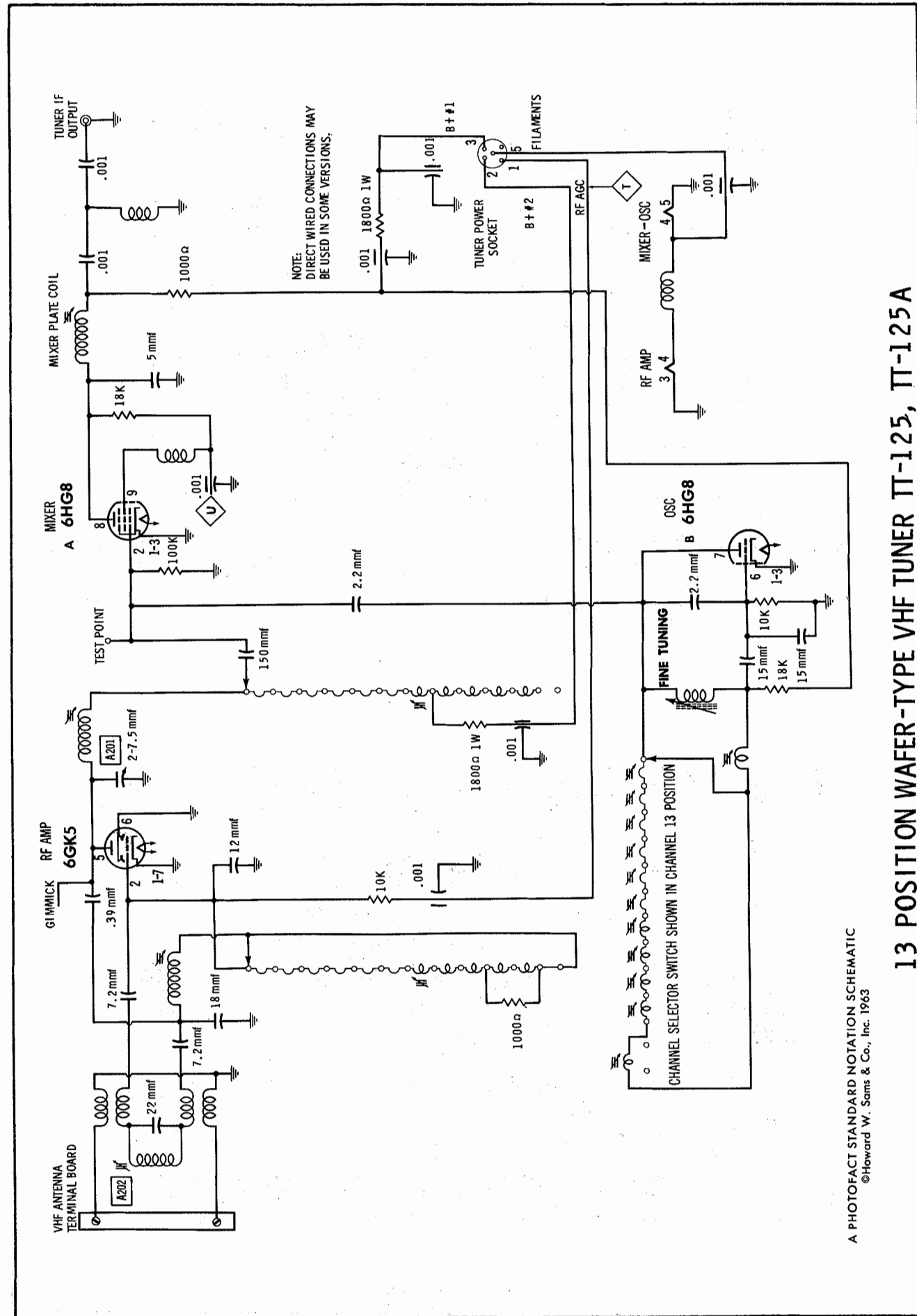
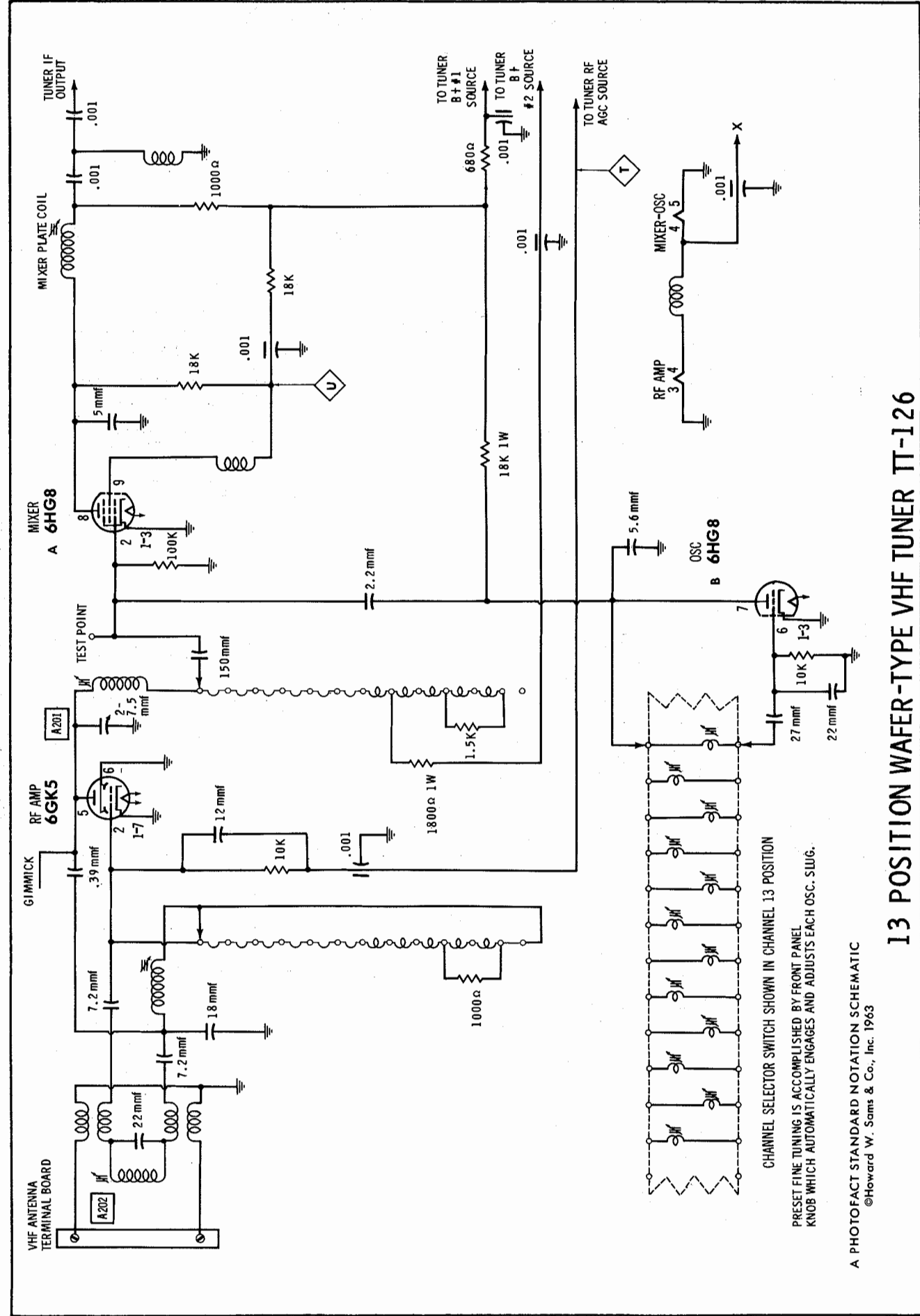
If IF interference is encountered, adjust A202 for MINIMUM interference.



TUNER TT-83

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2



• AMPEREX • GENERAL ELECTRIC • RCA • RAYTHEON • SYLVANIA •			
ITEM No.	USE	TYPE	TYPE
V201	RF Amp.	6GX5	6HGB
ITEM No.	USE	TYPE	TYPE
V202	Mixer-Osc.		

TUBES

FIXED CAPACITORS

REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	SPRAGUE PART No.
C200A	27 N750 5%		10TCU-027
C200B	27 N750 5%		10TCU-027
C200C	27 N750 5%		10TCU-027
C200D	27 N750 5%		10TCU-027
C200E	27 N750 5%		10TCU-027
C200F	27 N750 5%		10TCU-027
C200G	27 N750 5%		10TCU-027
C200H	27 N750 5%		10TCU-027
C200I	27 N750 5%		10TCU-027
C200J	27 N750 5%		10TCU-027
C200K	27 N750 5%		10TCU-027
C200L	27 N750 5%		10TCU-027
C200M	27 N750 5%		10TCU-027
C200N	27 N750 5%		10TCU-027
C200O	27 N750 5%		10TCU-027
C200P	27 N750 5%		10TCU-027
C200Q	27 N750 5%		10TCU-027
C200R	27 N750 5%		10TCU-027
C200S	27 N750 5%		10TCU-027
C200T	27 N750 5%		10TCU-027
C200U	27 N750 5%		10TCU-027
C200V	27 N750 5%		10TCU-027
C200W	27 N750 5%		10TCU-027
C200X	27 N750 5%		10TCU-027
C200Y	27 N750 5%		10TCU-027
C200Z	27 N750 5%		10TCU-027
C201	5.6mmf ± 5%		5HK-D10
C202	5.6mmf ± 5%		10TCC-V56
C203	5.6mmf ± 5%		10TCC-V56
C204	5.6mmf ± 5%		10TCC-V56
C205	5.6mmf ± 5%		10TCC-V56
C206	5.6mmf ± 5%		10TCC-V56
C207	5.6mmf ± 5%		10TCC-V56
C208	5.6mmf ± 5%		10TCC-V56
C209	5.6mmf ± 5%		10TCC-V56
C210	5.6mmf ± 5%		10TCC-V56
C211	5.6mmf ± 5%		10TCC-V56
C212	5.6mmf ± 5%		10TCC-V56
C213	5.6mmf ± 5%		10TCC-V56
C214	5.6mmf ± 5%		10TCC-V56
C215	5.6mmf ± 5%		10TCC-V56
C216	5.6mmf ± 5%		10TCC-V56
C217	5.6mmf ± 5%		10TCC-V56
C218	5.6mmf ± 5%		10TCC-V56
C219	5.6mmf ± 5%		10TCC-V56
C220	5.6mmf ± 5%		10TCC-V56
C221	5.6mmf ± 5%		10TCC-V56
C222	5.6mmf ± 5%		10TCC-V56

* Philco Part Number

COILS (RF-IF)

ITEM No.	USE	PHILCO PART No.	NOTES
L201	Ball Input Assy.	76-12481-85	
L202	Ant., RF, Mixer, Osc.	76-12481-2	Chan. 2 Strip
L203	"	76-12481-3	Chan. 3 Strip
L204	"	76-12481-4	Chan. 4 Strip
L205	"	76-12481-5	Chan. 5 Strip
L206	"	76-12481-6	Chan. 6 Strip
L207	"	76-12481-7	Chan. 7 Strip
L208	"	76-12481-8	Chan. 8 Strip
L209	"	76-12481-9	Chan. 9 Strip

DESCRIPTION	PART No.	MODELS	27-10395-7	27-10395-14	27-10395-9	27-10395-5	27-10395-3	27-10395-1	27-10395-8	27-10395-6	27-10395-4	27-10395-2
Safety Glass	27-10413-1		X	X	X	X	X	X				
Safety Glass	54-5918-1				X							
Bezel	28-13744-9				X							
Bezel	28-13744-10				X							
Knob-Channel Selector	424-8481		X	X								
Knob-Channel Selector	424-8353				X							
Knob-Channel Selector	424-8479											
Knob-Channel Selector	424-8474					X						
Knob-Channel Selector	424-8410					X						
Knob-Fine Tuning	28-14310-6		X	X								
Knob-Fine Tuning	424-8352				X							
Knob-Fine Tuning	27-10444-1					X						
Knob-Fine Tuning	28-14310-5						X					
Knob-Fine Tuning	424-8318					X						
Knob-Fine Tuning	424-8485						X					
Knob-UHF Channel Selector	424-8485		X	X								
Knob-UHF Channel Selector	424-8409				X							
Knob-UHF Channel Selector	28-14310-2					X						
Knob-UHF Channel Selector	424-8316						X					
Knob-UHF Channel Selector	424-8476							X				
Knob-UHF Channel Selector	424-8483								X			
Knob-UHF Fine Tuning	424-8477		X	X			X	X				
Knob-UHF Fine Tuning	424-8349					X						
Knob-On-Off, Volume	424-8482						X	X				
Knob-On-Off, Volume	424-8351						X					
Knob-On-Off, Volume	424-8475							X				
Knob-On-Off, Volume	424-8480								X			
Knob-On-Off, Volume	424-8357						X	X				
Knob-Contrast Horiz. Hold	424-8486		X	X			X	X				
Knob-Contrast Horiz. Hold	424-8308								X			
Knob-Contrast Horiz. Hold	424-8314									X		
Knob-Contrast Horiz. Hold	424-8487		X	X			X	X				
Knob-Brightness, Vert. Hold	54-5920-28					X				X		
Cabinet Front	54-5920-30						X					
Cabinet Front	54-5920-31											X

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		ITEM No.	USE	TYPE		TYPE	
V1	1st Video IF Amp.	6EH7		V7	Audio Output	6BQ5		6BQ5	
V2	2nd Video IF Amp.	6EJ7		V8	Vert. Mult. - Vert. Output	6FD7		6FD7	
V3	Video Output - Sync Sep.	6JE8		V9	Horiz. Mult.	6FQ7		6FQ7	
V4	AGC Keying - AGC Clamper	6BY8		V10	Horiz. Output	6DQ6B		6DQ6B	
V5	Sound Limiter	6GH8		V11	Damper	6DE4		6DE4	
V6	Noise Inverter	6CS6		V12	HV Rectifier	1G3		1G3	
V6	Audio Detector								

PICTURE TUBE

REPLACEMENT DATA						NOTES
ITEM No.	PHILCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V13	19BLP4	19BLP4 ①			19BLP4 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	.33A	34-8054-2 ①	1N1095 ②	1N1784 or 1N2863	F-6 or 60H
X2	.33A	34-8054-2 ①	1N1095 ②	1N1784 or 1N2863	F-6 or 60H

① Some versions use Part #34-8054-1.

② X1 and X2 may be replaced by a single unit, VB500.

ELECTROLYTIC CAPACITORS

RATING		REPLACEMENT DATA					
ITEM No.	CAP. VOLT.	PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.
C1	200	30-2568-83	AFH1-25-85 ①	BR200-250	QT1-27	TD-200-200	W8342
C2	200	30-2601-24	AFH4-100-23	C0380	XC3-27	TMT-3754	FP331.2
C3	200			BR200-250	QT1-27	TD-200-200	W8342
C4	200						
C5	200						
C6	200						
C7	200						
C8	200						
C9	200						
C10	200						
C11	200						
C12	200						
C13	200						
C14	200						
C15	200						
C16	200						
C17	200						
C18	200						
C19	200						
C20	200						
C21	200						
C22	200						
C23	200						
C24	200						
C25	200						
C26	200						
C27	200						
C28	200						
C29	200						
C30	200						
C31	200						
C32	200						

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

① Use insulating sleeve.

FIXED CAPACITORS

RATING		REPLACEMENT DATA					
ITEM No.	CAP. VOLT.	PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C6	.47 100V		P288N-47	WMF1P47E	IDP-4-474	PVC1047	2TM-P47
C7	.33 100V		DI-33	L10Q33	CCD-330	GP433	10TS-Q33
C8	.33 100V		P288N-33	WMF1P33E	IDP-4-334	PVC1033	2PS-P33
C9	.0015		SI 1500	L10D15	CCD-152	B-215	5HK-D15
C10	.5-3				829-3	CV-1	CT565
C11	3.3mmf NPO		NPO-SI 3.3	TCZ-3R3	C10V33C	CCCTO-3R3	CNO-533
C12	1-5				829-6	CV-3	CT552
C13	.5-3				829-3	CV-1	CT565
C14	1-5				829-6	CV-3	CT552
C15	4.7						
C16	.0015		SI 1500	D6-152	L10D15	CCD-152	B-215
C17	.0015		SI 1500	D6-152	L10D15	CCD-152	B-215
C18	22 N330 5%			TCA-33			
C19	.0015		SI 1500	D6-152	L10D15	CCD-152	B-215
C20	.0015		SI 1500	D6-152	L10D15	CCD-152	B-215
C21	.0015		SI 1500	D6-152	L10D15	CCD-152	B-215
C22	18 NPO 5%			TCZ-18			
C23	5						
C24	470		SI 470	D6-471	L10T47	CCD-471	B-347
C25	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401
C26	.0082			DD-822		CCD-822	B-282
C27	.02		SI 20000	DD-203	BYB882	CCD-203	B-120
C28	.0047		SI 4700	D6-472	L10D47	CCD-472	B-247
C29	.01 1000V		P1088N-01	DD-103	CUB1081	18DP-3-103	GEM-1011
C30	.0022		SI 2200	L10D22	CCD-222	CCD-222	B-222
C31	470		SI 470	D6-471	L10T47	CCD-471	B-347
C32	150		SI 150	D6-151	L10T15	CCD-151	B-315

SET 650 FOLDER 2

PHILCO CHASSIS
13J41/42/43/43C/43U/45/45U

FOLDER 2

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.	ELNENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C33	27 N330 10%	#30-1287-10						
C34	.0039							
C35	.0015	Note 2	SI 1500	D6-402	L10D39	CCD-392	GP239	5GA-D39
C36	.0082			D6-152	L10D15	CCD-152	B-315	5HK-D15
C37	.0056 2KV	Note 2		DD-622		CCD-622	B-282	
C38	.002		D	DD30-602	HVC20D5	3CCD-502		BL-D50
C39	.01	Note 2	SI 2000	D6-202	L10D2	CCD-202	B-220	5HK-D20
C40	.01		SI 10000	D6-103	BYA10S1	CCD-103	B-110	5HK-S10
C41	390	Note 2	SI 390	D6-391	BYA10S1	CCD-103	B-110	5HK-S10
C42	.033 400V		P488N-333	DD-303	PM4S33	CCD-391	B-339	5GA-T39
C43	.0068 400V 10%	Note 3	BR6D68		WFM4D68E	4DP-3-333	GEM-4133	4PE-S33
C44	.0015 1800V				CUB6D15	6DP-1-682	PVC4268	6TM-D68
C45	.0022 600V	Note 3	P688N-0022	DD-222	CUB6D22	6DP-2-152	GEM6215	MB-D15
C46	860		SI 860	D6-881	L10T68	CCD-1-222	GEM6222	6TM-D22
C47	.0039	Note 3		D6-402	L10D39	CCD-392	GP239	5GA-T39
C48	.0039 100V 10%		BE6S39	CF-392	PM6D39	6DP-1-392	PVC6239	6PS-D39
C49	47	Note 3	1469-000047	CPR-47J	2ZRSQ47	DM-15-470K		MS-447
C50	390		1469-00039	CPR-390J	5R5T39	DM-15-391K		MS-339
C51	.0015	Note 3	SI 1500	D6-152	L10D15	CCD-152	B-215	5HK-D15
C52	.330		SI 330	D6-331	L10T33	CCD-331	B-333	5GA-T33
C53	.0033	Note 3	SI 3300	D6-332	L10D33	CCD-332	B-233	5HK-D33
C54	.047 200V							
C55	.001 2KV	#30-1246-36	HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	BL-D10
C56	470 2KV		HVD-30-470	DD30-470	HVB20T47	3CCD-471	2H-347	20GA-T47
C57	120 5KV 5%							
C58	.0082			DD-822		CCD-822	B-282	
C59	.018 600V 10%		BE6S18		PM6S18	6DP-2-203	PVC612	6TM-S20
C60	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C61	.022 600V		P688N-022	DD-203	CUB6S22	6DP-2-223	GEM-6122	6TM-S22
C62	.22 600V		P688N-22		CUB6P22	6DP-5-224	GEM-6022	6TM-P22
C63	.0082			DD-822		CCD-822	B-282	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Note 1. Part of K3. Note 2. Part of K4. Note 3. Part of K7.
Philco Part Number † Alternate Value

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			PHILCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	1meg	33-5805-8 ①	BPL-70 or (APL-70, AK-7)	C47S-1meg-Z F5-3	BL3-137, 8K7 or (PQ313-137, 8K7 or (BUL, CF26, SS10, K) *	PP16A
R2A	Contrast	75K 2W	33-5804-15 ②				
R3A	Brightness	250K	33-5804-14 ③	F1-50K, R1-500K ④, FFS112, RFS208	P-50K-5 R-500K-8 ④ FP-112, FR-208	† QJ-1586	FA54L, RU55L ④, OF1750, 1B2500
R4	Horiz. Hold	430K, 35K Stop	33-5593-51	TT-70 or (F2-1meg, SN010, AK-38)	B47-1meg-Z	BL3-137, TM4 or (BUL, CF26, 888) *	TA16A or (RU16A, SL37, SN1000) or (UA16A, SN1000) FL-1.5K ⑤
R5	Vert. Linearity	1500Ω 2W	33-5591-22		39-1500 ⑤	112-1500 ⑤	
R6A	Horiz. Hold Centering	100K	33-5800-5 ⑥				
R6B	Width	250K					
R6C	Height	3.4meg					

† "CONCENTRIKIT" Equivalent: K-6 Kit with Base Elements and Shafts: BL1-123, P17-123 (Panel), BL1-133 ④, R26-215 (Rear)
"SNAPTROL" Equivalent: BU5, CF12, SF14, CR11 ③, SR17, DC1.
① Chassis 13J45 uses control Part #33-5593-34.
② Chassis 13J45 uses separate controls: Contrast, Part #33-5804-18; Brightness, Part #33-5593-37.
③ Chassis 13J45 uses separate controls: Vert. Hold, Part #33-5593-38, Horiz. Hold, Part #33-5593-38.
④ Connect 33K Resistor in series with the left hand terminal of the control and the lead connected to the same terminal of the original control (control viewed from shaft end, terminals down).
⑤ Connect a 180Ω, 2 watt Resistor in series with the terminal.
⑥ Some versions may use Part #33-5800-4.

* "SNAPTROL"

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
R7	7500Ω 5W	PW5-7500	5W-SQ-7500	(4000Ω 5W)*	R76	Varistor			#33-1373-4
R24	1200Ω 3W	PW3-1200	3G-1200		R77	5800Ω 3W	PW3-5800	3G-5800	
R25	4700Ω 10W	PW10-4700	10W-SQ-4700		R82	6800Ω 5W	PW5-6800	5W-SQ-6800	
R49	12K 7W	PW7-12K	7W-SQ-12K		R83	2000Ω 10W	PW10-2000	10W-SQ-2000	(2700Ω) *
R66	4Ω (Cold)			Thermistor	R85	5.6Ω (Fused)	FR 5.6	F 5.6	

* Alternate Value

Philco Part Number

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PHILCO PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	47.25MC Trap	32-4645-32	BC-562	4604	RTC-8516	T856	① 5 Turns. ② 15 Turns. ③ Includes Detector Assy.
L2	41.25MC Trap	32-4645-47	SW-630	4608	RTC-8517	T857	
L3	47.25MC Trap	32-4645-45	SW-631	4608	RTC-8517	T857	
L4	RF Choke	32-4645-52 ②					
L5	1st Video IF	32-4645-53 ②					
L6	2nd Video IF	32-4688-30					
L7	3rd Video IF	32-4624-1 ③					
L8	RF Choke (2.3uh)		BC-563	4608	RTC-8517	T857	
L9	RF Choke (22uh)	32-4674-3	TV-192	72F225AP	RTC-8584	TA311	
L10	RF Choke (3uh)	32-4645-44	BC-564	4608	RTC-8518	T858	
L11	Peaking (220uh)	32-4782-8	BC-673	6154	RTC-8588	T345	
L12	Sound Takeoff - 4.5MC Trap	32-4688-10	TV-158	7102-P		TA-603	
L13	Peaking (180uh)	32-4782-7	BC-672	6180	RTC-8597	T344	
L14	Peaking (330uh)	32-4789-4	BC-675	6132	RTC-8577	T349	
L15	Audio Interstage IF	32-4745-6	TV-157	6203-PC	RTC-8546	T255	
L16	Quadrature	32-4805-1				T8282	
L17	RF Choke (9uh)	32-4112-82	BC-568	4812	RTC-8522	T860	
L18	RF Choke (9uh)	32-4112-82	BC-568	4812	RTC-8522	T860	

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		PHILCO PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	Workman PART No.	
L19	Horiz. Stabilizer	32-4754-3	TV-250	6335-G		HS-16		T163	

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L20	.33A DC	20.5Ω	.47 H _y .	32-8999-2	C-4115	C-2343	28C79	C-34X	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
				PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 1.7A	110VAC @ .33A DC	8.3VAC @ 8.5A	32-10004-1					

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PHILCO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	Vert. Output	32-10005-1	A-2823	VO-118	26872	A-135X	① Use original pin-cushion magnet if necessary and position same as original. ② Remove brown lead. ③ Use original leads.
T3	Yoke (Horiz. 25.5MH) 114° (Vert. 41.5MH)	76-12530-8	MDF-128 & M47-110 ①②③		Y-59 ①③	Y-72-1 ①	
T4	Rear Cover	76-12399-1				YC-112	
	Horiz. Output	32-10002-3	M47-110				

* COMPONENT CONNECTION DATA

ORIGINAL → REPLACEMENT ↓	HV TRANSFORMER				VERTICAL OUTPUT				YOKE				YOKE PLUG			
	Original Connections				Original Connections				Original Connections				TO YOKE TERMINAL			
					Blue	Red	White	Black	Grn. Whl.	White	Grn. Whl.	Red	Black	Brn. Whl.		
MERIT †					Blue	Red	Green	Yel.	5	4	8	2	1	3	10	
STANCOR					Blue	Red	Yel.	Green								
THORDARSON					Blue	Red	Yel.	Green	6	5	4	2	1	3	7	
TRIAD †					Blue	Red	Yel.	Green	6	5	4	2	1	3	7	

† Remove 100mmf capacitor between terminals #1 and #2.

† Remove 160mmf capacitor between terminals #1 and #2.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	10000Ω	3-4Ω	32-8985-5	A-2998		24583	S-11X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		PHILCO PART No.	QUAM PART No.	
SP1	3" x 5" PM 6-8Ω	33-1689-12	35A05Z6.4	
SP2	3" x 5" PM 6-8Ω	33-1689-12	35A05Z6.4	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PHILCO PART No.	REPLACEMENT DATA
K1	Video IF Cathode Filter	100Ω, .0082mfd	39-6031-19	
K2	Sound IF Cathode Filter	270Ω, .0082mfd	30-6031-16	
K3	Vertical Retrace Suppressor	12K, 15K, 68K, .0047mfd, .02mfd	30-6549-1	
K4	Sync Separator Network	22K, 39K, 220K, 1meg, 1.2meg, 380mmf, .002mfd, .01mfd, .01mfd	30-6548-1	
K5	Vertical Integrator	22K, 27K, 90K, 150mmf, 600mmf, .004mfd, .005mfd	30-6030-6	Centralab PC-439
K6	Horiz. Phase Comparer	82K, 150K, 680K, 820K, 82mmf, 220mmf, .001mfd, .04mfd	30-6035-5	Centralab PC-409①
K7	Horiz. Oscillator Network	4700Ω, 4700Ω, 39K, 330mmf, .0033mfd, .0015mfd	30-6549-1	

① Shunt Leads #5 & #7 with 2.4meg 1/2W Resistor.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			PHILCO PART No.	LITTELFUSE PART No.	BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER
M1	1 1/2"	length #28 wire, Part #L3477				

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M2	VHF Tuner	TT-83 (78-12718-2)	
	VHF Tuner	TT-125A (78-12730-6)	
	VHF Tuner	TT-125 (78-12730-5)	
	VHF Tuner	TT-82 (78-12718-1)	
	VHF Tuner	TT-126 (78-12730-4)	
	VHF Tuner	TT-129 (78-13027)	
	UHF Tuner	TT-132 (78-12343-2)	
	UHF Tuner	TT-138 (78-12715-2)	
	UHF Tuner	TT-137 (78-12715-1)	
M3	Antenna	78-12763-2	JFD REPLACEMENT #TA438, Used in all models except L3804CBE, L3808CBK, CWH.
M4	Diode	34-8022-5	Video Detector
M5	Diode	34-8037-2	Horizontal AFC
M6	Switch	42-2142-1	Time Delay
M7	Switch	42-2128-1	Programming
M8	Motor & Switch Assy	41-2090-1	

WIRING

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

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	.1 50V		TTD-1	CK-104	H-05P1		TA-010	TG-P10
C3	.22 100V		P288N-22		WMFIP22E	IDP-3-224	PVC1022	2TM-P22
C4	.05 50V		TTD-05	CK-503	H-05S5		TA-150	TG-S50
C5	.0082			DD-822		CCD-822	B-282	
C6	.1 50V		TTD-1	CK-104	H-05P1		TA-010	TG-P10
C7	880 5%		1489-00068	CPR-680J	5R5T68	DM-19-681J	MCJ249	MS-368
C8	880 5%		1489-00068	CPR-680J	5R5T68	DM-19-681J	MCJ249	MS-368
C9	.047 600V		P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47
C10	.22 100V	Note 1	P288N-22		WMFIP22E	IDP-3-224	PVC1022	2TM-P22

Note 1 Not used in some versions.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PHILCO PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Input	32-4823-2					
L2	40KC	32-4823-1					
L3	38KC	32-4823-1					

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PHILCO PART No.	REPLACEMENT DATA
K1	Volume Level Network	33K, 150K, 220K, 560K, 820mmf, .0015mfd, .0039mfd, .0068mfd	30-6041-1	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .017A	11.5VAC @ .017ADC		32-10003-1					

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M1	Switch	42-2075-13	Manual-Remote
M2	Relay	42-4050-1	Channel Selector
M3	Relay	42-4052-1	TV ON-OFF
M4	Relay	42-4051-1	Volume Level
M5	Transducer	36-1692-5	Includes Cable

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid 22AWG)	Available in 12 Colors
	8524 (Stranded 22AWG)	
	8570 (Stranded 26AWG)	

REMOTE CONTROL TRANSMITTER

ITEM	PART No.	ITEM	PART No.
Transmitter Assy. Complete	76-12243-5	Pushbutton, Left	28-13653-5
Back Cover	54-5947-3	Pushbutton, Right	28-13653-6
Front Cover	54-5946-3	Rod, 38KC Tuning	28-13223-3
Grille	28-13660-4	Rod, 40KC Tuning	28-13223-2
Lever	28-13936-1		

PHOTOFACT® Folder

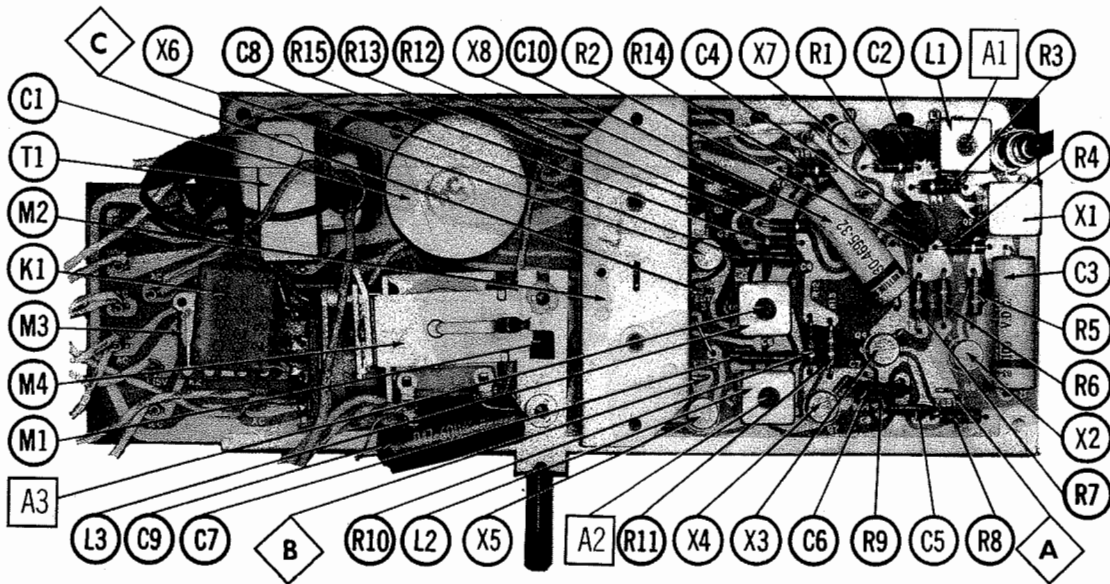
with CIRCUITRACE®

PHILCO
REMOTE CONTROL RC-68

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 650 FOLDER 2. File this Folder with the TV Folder in the yellow filing jacket provided.

SET 650 FOLDER 2-A
PHILCO
REMOTE CONTROL RC-68



TRADE NAME	Philco
MANUFACTURER	Philco Corp., A Subsidiary of Ford Motor Co., Tioga & C Streets, Philadelphia, Pa.
TYPE SET	Remote Control Receiver with Mechanical Type Transmitter
TRANSISTORS	Seven
POWER SUPPLY	110-120 Volts AC, 60 Cycle
RATING .017 Amp. @ 115VAC (Channel Tuning in Operation) .027 Amp. @ 115VAC (Volume Tuning in Operation)	

ALIGNMENT INSTRUCTIONS

REMOTE RECEIVER ALIGNMENT

Suggested Alignment Tools: GENERAL CEMENT #9440					
Connect an Audio Generator to speaker and position the speaker approximately 3 inches in front of Ceramic pickup.					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. None	38KC 40KC	Any non-interfering channel	DC probe to point A Common to chassis.	A1	Adjust for equal amplitude at both 38KC and 40KC. A1 should be adjusted at the equal amplitude that positions core nearest mounting end of can.
2. None	40KC	"	DC probe to point B Common to chassis.	A2	Adjust for maximum deflection. A2 should be adjusted to position the core nearest the printed circuit board.
3. None	38KC	"	DC probe to point C Common to chassis.	A3	Adjust for maximum deflection. A3 should be adjusted to position the core nearest printed circuit board.

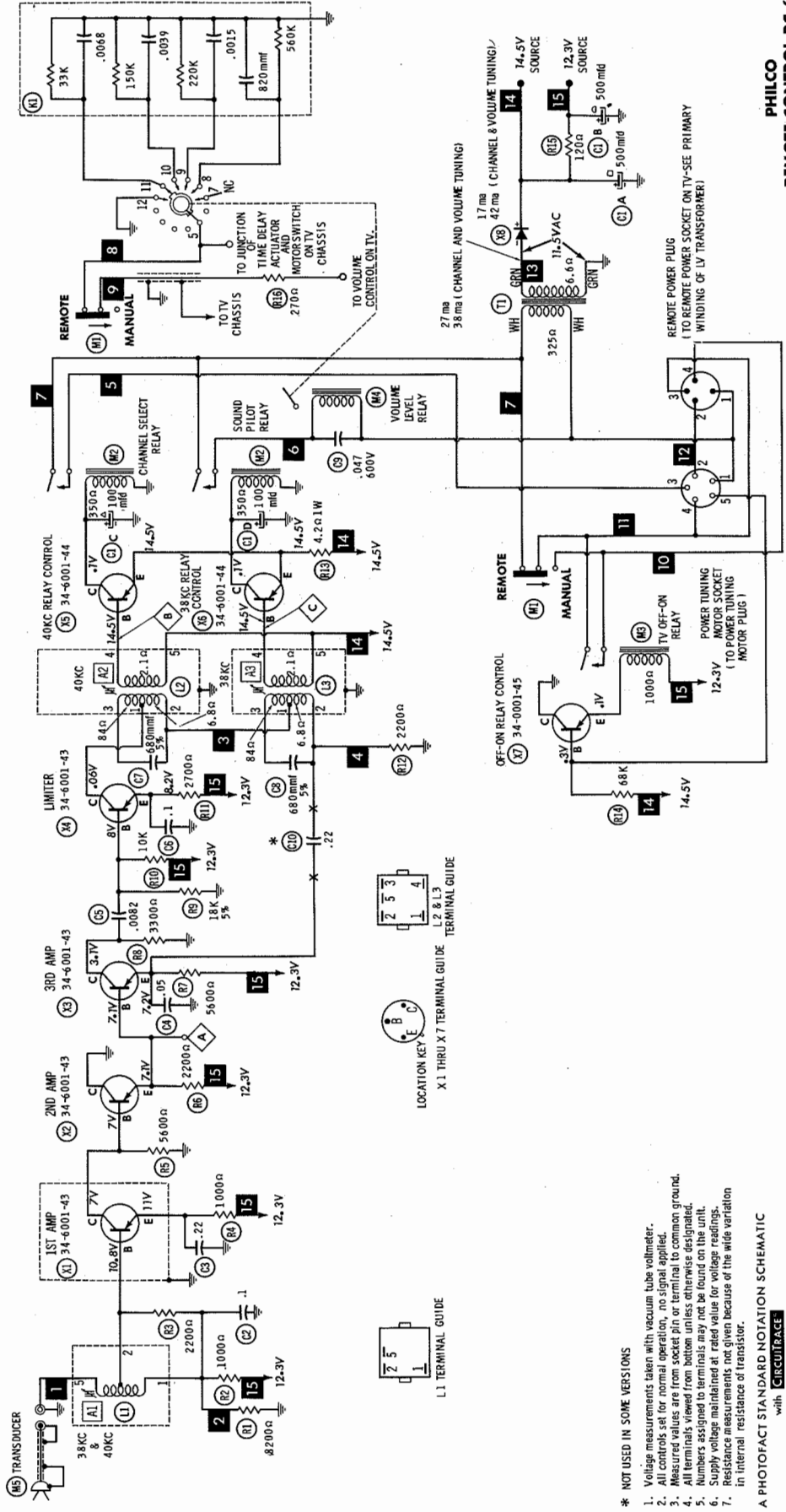
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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.

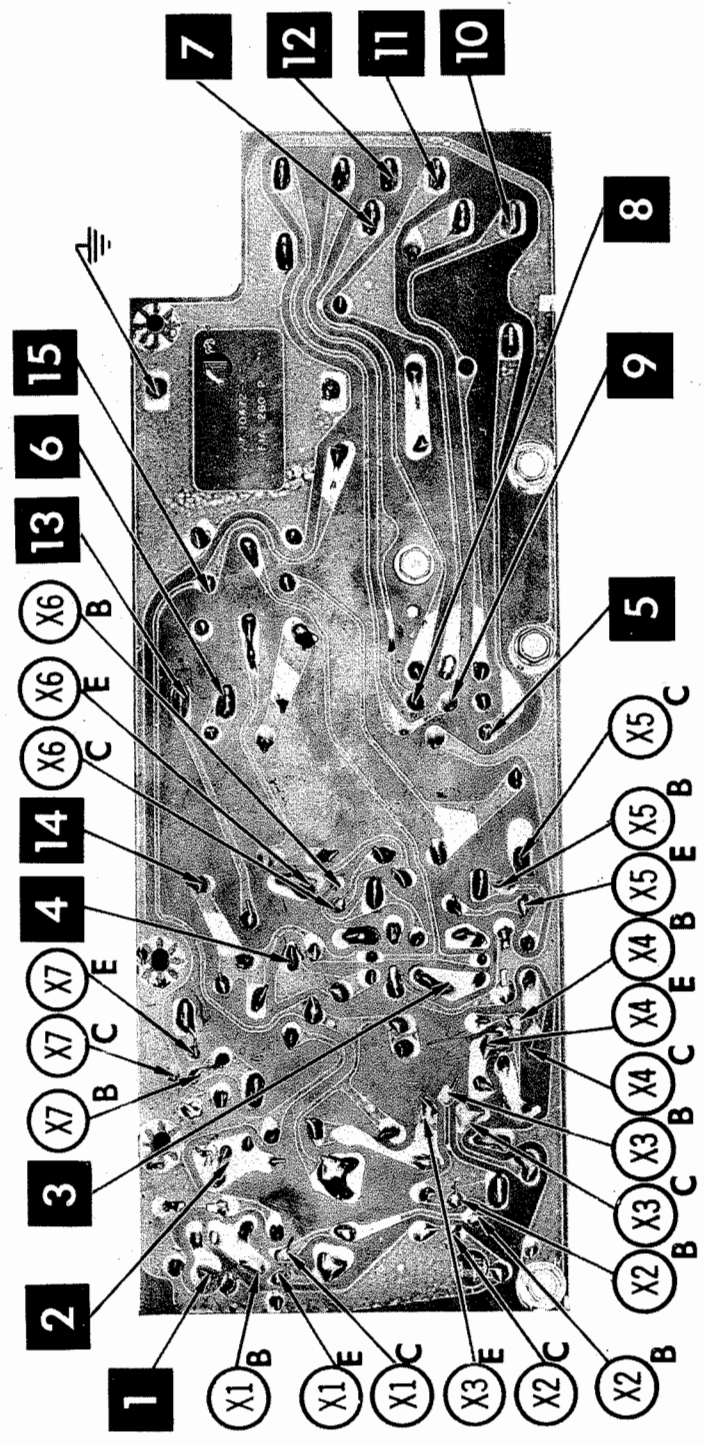
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SET 650 FOLDER 2-A



PHILCO
REMOTE CONTROL RC-68



A Howard W. Sams CIRCUITACE Photo

RECEIVER 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.

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	34-6001-43	1st Amp.	DS25	GE1	2N218	PNP
X2	34-6001-43	2nd Amp.	DS25	GE1	2N218	PNP
X3	34-6001-43	3rd Amp.	DS25	GE1	2N218	PNP
X4	34-6001-43	Limiter	DS25	GE1	2N218	PNP
X5	34-6001-44	40KC Relay Control	DS26	GE2	2N218	PNP
X6	34-6001-44	38KC Relay Control	DS26	GE1	2N218	PNP
X7	34-0001-48	ON-OFF Delay	DS26	GE1	2N218	PNP

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS			NOTES
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X8	.017A	34-8054-5	IN2090 or A50	IN2858	F1 or 10H	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA				
			PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	SPRAGUE PART No.
C1A	500	25	30-2594-2	PWH4-00-25			
B	500	25					
C	100	25					
D	100	25					

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