

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

The Horizontal Hold is equipped with a stop which limits rotation to 270° with the knob on the shaft. To adjust, remove the knob and adjust by turning the shaft until the picture is synchronized to the point where it is virtually impossible to disrupt horizontal synchronization when switching from channel to channel. Install knob with the pointer centered between the stops.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The Horizontal Hold is accomplished by the proper setting of the Horizontal Oscillator Coil Slug. (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, in or out of the yoke.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove knobs and the rear cover held by 9 screws.
2. Disconnect all tuner leads, speaker leads and remote control receiver plugs.
3. Remove 1 screw from the front of the cabinet and at the left of the perma-set tuning shaft. Also remove 2 screws holding the rear tuner bracket at the top and remove tuner.
4. Remove 3 remote control chassis bolts from bottom of cabinet and remove remote chassis.

5. Remove 2 screws holding the volume control, 2 screws holding the channel selector switch and 2 screws holding the on-off switch.
6. Remove 4 TV chassis bolts from bottom of cabinet and 4 screws along side of the picture tube retaining band.
7. Remove chassis, control panel, and picture tube assembly.

PICTURE TUBE REMOVAL

It is necessary to remove the chassis for picture tube removal. (See "Chassis Removal" above.)

SET 635 FOLDER 3

ZENITH CHASSIS
16K23/Q/QS/U

PHOTOFACT® Folder



MODEL K3341H

TRADE NAME	ZENITH	Models	Chassis	Remote Chassis
K2705R, Y, K2707L, Y, K2735E, L, R, W, K2736E, M, R, W, K2737E, R, W, K2738E, R, W, K2739E, L, R, W, MK2748M, R, W, MK2786L, R, W, MK2787M, R, RK2748M, R, W, T2025WA, T2026HA, RA, T2027MA, T2050MA, RA, WA, T2052M, R, W, T2070EA, RA, WA, T2072HA, WA, T2073MA, T2075LA, WA, T2077H, R, T2079M, T2080E, R, W, T2706EA, RA, WA..		16K23		
K2705RU, YU, K2707LU, YU, K2735EU, LU, RU, WU, K2736EU, MU, RU, WU, K2737EU, RU, WU, K2738EU, RU, WU, K2739EU, LU, RU, WU, MK2748MU, RU, WU, MK2786LU, RU, WU, MK2787MU, RU, RK2748MU, RU, WU, T2025WU, T2026HAU, RAU, T2027MAU, T2050MAU, RAU, WAU, T2052MU, RU, WU, T2070EAU, RAU, WAU, T2072HAU, WAU, T2073MAU, T2075LAU, WAU, T2077HU, RU, T2079MU, T2080EU, RU, WU, T2706EAU, RAU, WAU		16K23U		
K3308R, Y, T3025WA, T3026HA, RA, T3027MA, T3074LA, WA		16K23Q ... S-56853		
T3075LA, WA, T3077H, R, T3079M, T3080E, R, W		16K23Q ... S-56854		
K3340E, R, W, K3341H, M, R, W, K3342H, M, R, W, K3345L, R, W, MK3386L, R, W		16K23QS .. S-56853		

Models: MK2784M, MU, R, RU, W, WU use Amp. Chassis 4K22, Radio Chassis 9H20LZ1
RK2784M, MU, R, RU, W, WU use Amp. Chassis 4K22, Radio Chassis 7F20L
MK2787M, MU, R, RU use Amp. Chassis 8H30Z, Radio Chassis 9H20LZ1
MK3386L, R, W, MK2786L, LU, R, RU, W, WU..4K2L, Radio Chassis 9H20LZ1

MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Illinois
TYPE SET	Television Receiver with Remote Receiver and AM-FM Radio in some models
TUBES	VHF - Sixteen, UHF - Seventeen
POWER SUPPLY	110-120 Volts AC, 60 Cycle
TUNING RANGE	RATING 195 Watts, 1.7 Amp. @ 117 Volts AC 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 LOCATION

M1 - B+, N 7/10 See "Chassis - Top View"
M2 - 1½" Fuse Wire Fil. See "Chassis-Bottom View" page 4
M3 - AC Input, 5 Amp. See "Chassis - Top View"

TUNER OSCILLATOR ADJUSTMENT

To touch up the VHF Oscillator, it is necessary to remove the tuner.

AGC

The AGC may be varied by means of an AGC control. (For location, see "Tube Placement Chart".)

FOCUS

The focus may be varied by means of a Focus control. (See "Tube Placement Chart" for location.)

SYNC STABILITY

Sync stability may be varied by means of a Fringe Lock control. (For location, see "Tube Placement Chart".)

BUZZ ADJUSTMENT

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

CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

PINCUSHION CORRECTION

Reduce the picture size so that the sides of the raster are visible. Position the 2 magnets so that all the sides are straight.

ZENITH CHASSIS 16K23/Q/QS/U

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 Receiver	S-56853	SET 635, FOLDER 3-A
Remote Control Receiver	S-56854, S-56884	SET 635, FOLDER 3-B
AM-FM Chassis 7F20, 7F20L ..	SET 635, FOLDER 3-C	
AM-FM Chassis 9H20LZ1 ..	SET 635, FOLDER 3-D	
Amp. Chassis 4K21, 4K22 ..	SET 635, FOLDER 3-E	
Amp. Chassis 8H30, 8H30Z ..	SET 635, FOLDER 3-F	

ZENITH CHASSIS
16K23/Q/QS/U

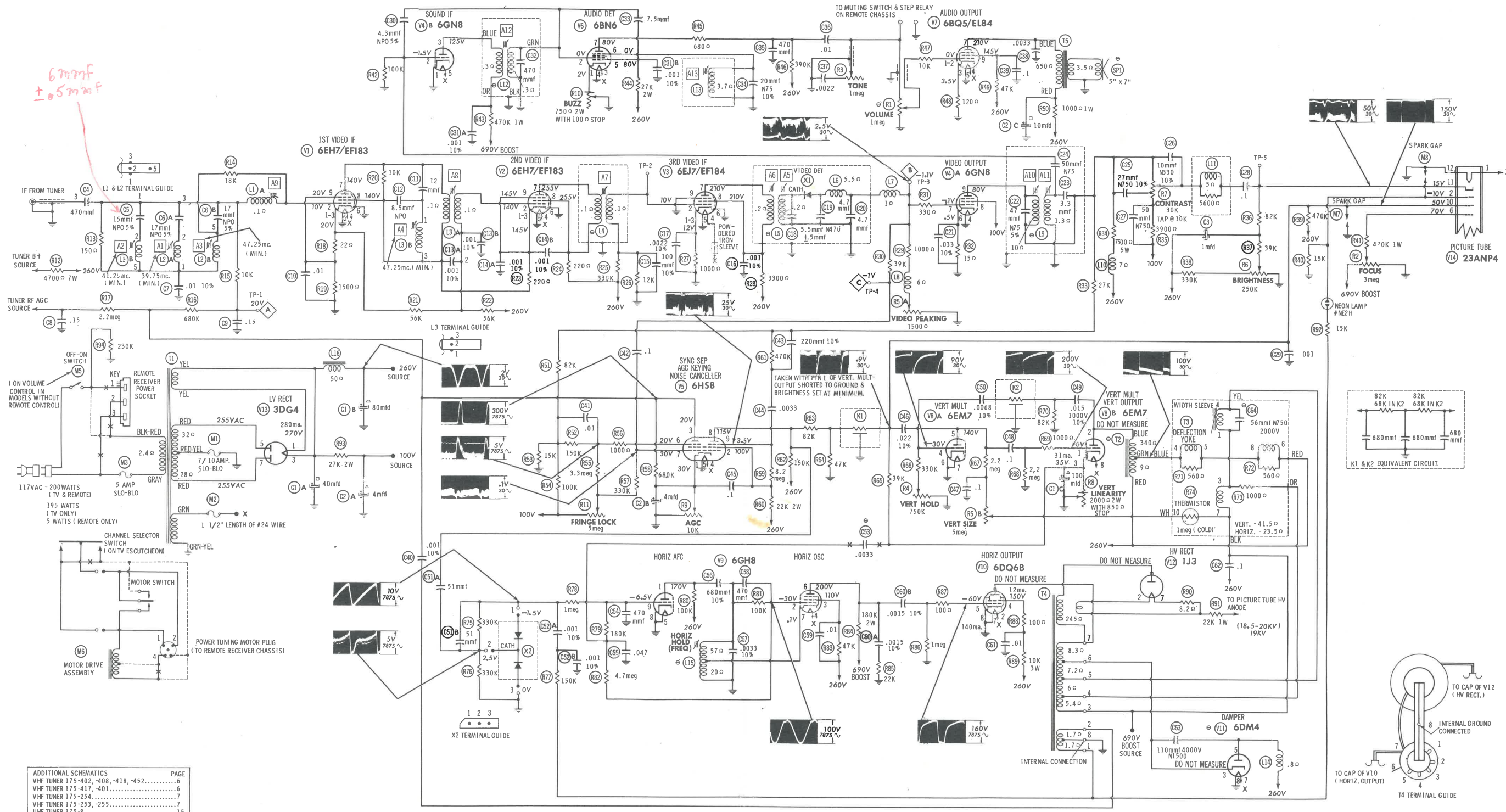
SET 635 FOLDER 3



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
MA030

part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

Printed in U.S. of America



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

A PHOTOFACT STANDARD NOTATION SCHEMATIC
©Howard W. Sams & Co., Inc. 1963

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6EH7 EF183	NC	1.4meg	1500Ω	FIL	FIL	0Ω	♦ 220Ω	♦ 220Ω	1500Ω
V2	6EH7 EF183	INF	35K	INF	FIL	FIL	0Ω	†270Ω	†270Ω	♦0Ω
V3	6EJ7 EF184	1000Ω	12K	NC	FIL	FIL	0Ω	†2400Ω	†3400Ω	0Ω
V4	6GN8	0Ω	100K	†470K	FIL	FIL	15Ω	1600Ω	†16K	†6500Ω
V5	6HS8	4000Ω	†22K	600K	FIL	FIL	†160K	†1.1meg	†70K	†8.2meg
V6	6BN6	250Ω	.3Ω	FIL	FIL	†27K	3.5Ω	†390K		
V7	6BQ5 EL84	NC	500K	120Ω	FIL	FIL	NC	†1700Ω	NC	†47K
V8	6EM7	2.2meg	†400Ω	1000Ω	600K	†5.5meg	0Ω	FIL	FIL	
V9	6GH8	†100K	95K	†47K	FIL	FIL	†180K	20Ω	0Ω	1.3meg
V10	6DQ6 B	TP	FIL	NC	†10K	1meg	NC	FIL	0Ω	TOP CAP †8.5Ω
V11	6DM4	NC	NC	3meg	NC	†50Ω	NC	FIL	FIL	
V12	1J3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †253Ω
V13	3DG4	†150K	NC	†150K	TP	32Ω	NC	28Ω	TP	
V14	23ANP4	FIL	15K	Pin 6 800K	Pin 10 30K	Pin 11 120K	Pin 12 FIL			
• V201	6GK5	0Ω	3.2meg	FIL	FIL	†5900Ω	0Ω	0Ω		
• V202	6CG8A	4700Ω	†9400Ω	0Ω	FIL	FIL	†4700Ω	†4700Ω	0Ω	220K
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 PIN 1 OF V2.

† MEASURED FROM PIN 3 OF V13.

† MEASURED FROM PIN 3 OF V11.

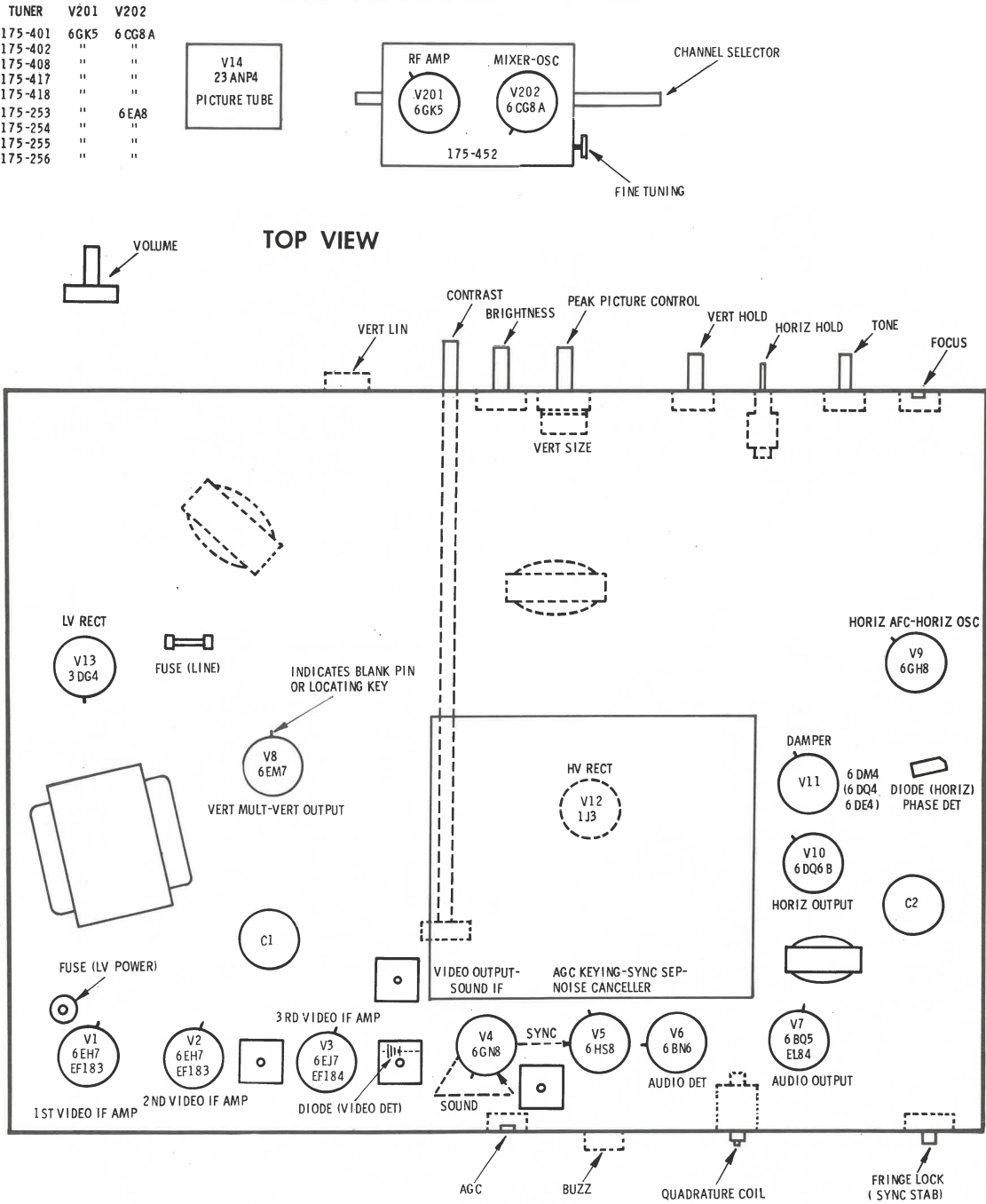
NC NO CONNECTION

TP TIE POINT

• VHF TUNER #175-452

TUBE PLACEMENT CHART (BOTTOM VIEW)
ON PAGE 14

TUBE PLACEMENT CHART



ZENITH CHASSIS
16K23/Q/QS/U

FOLDER 3

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 Transformer Fuse M1, Filament Fuse M2, Line Fuse M3, V13.

SWEEP FAILURE

No raster, has sound V9, V10, V11, V12, V14

No vertical deflection V8.

Poor vert. linearity or foldover V8,

Poor horiz. linearity or foldover V9, V10, V11.

Narrow picture V9, V10, V11, V13.

Vert. off freq. V8.

Horiz. off freq. AFC Diode X2, V9.

LOSS OF PICTURE OR SOUND

No pic, no sound, has raster V1, V2, V3, Video Det. X1, V4.

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

No pic, has sound, has raster V4, V14.

Has pic, no sound V4, V6, V7.

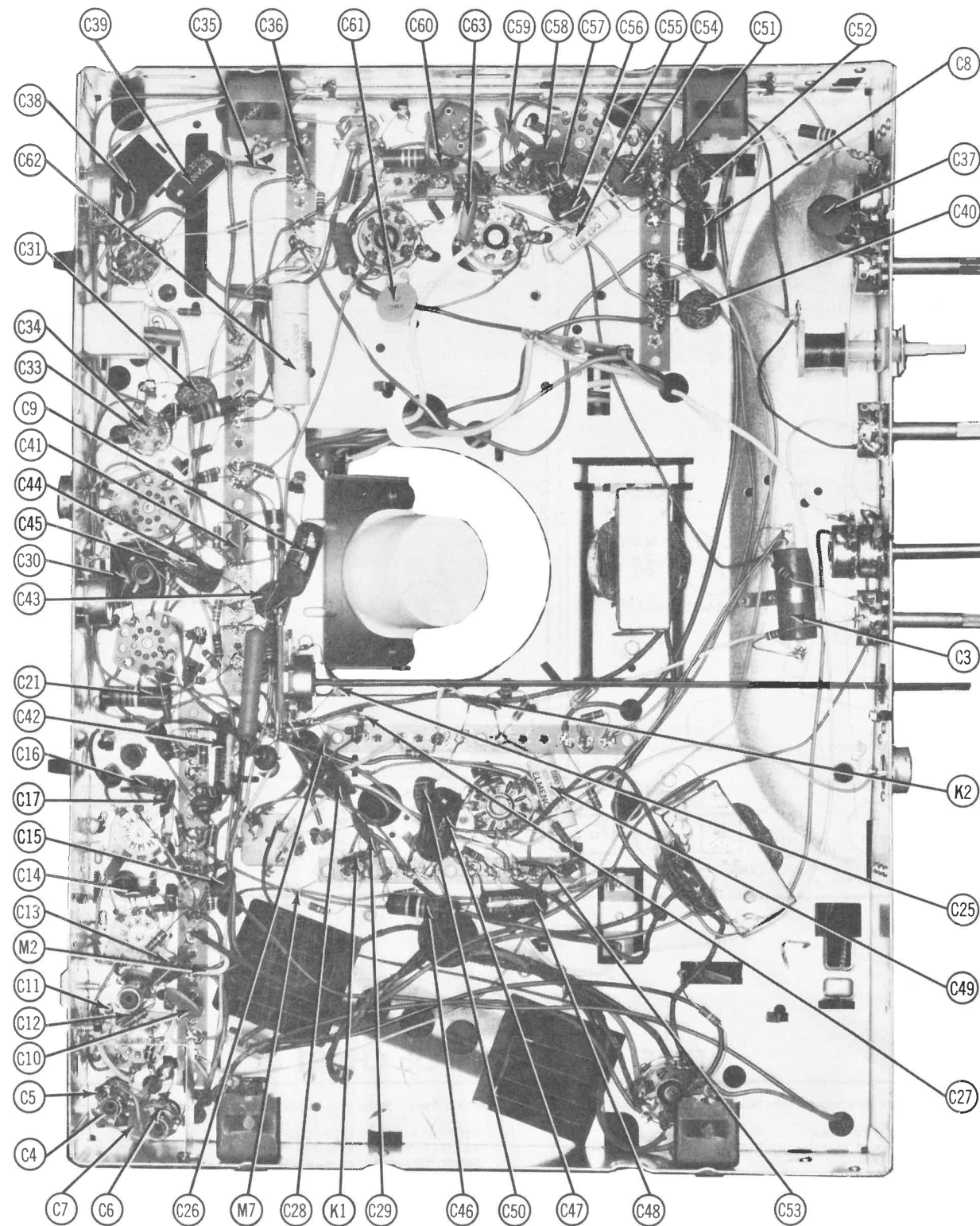
Overloaded picture V5.

SYNC FAILURE

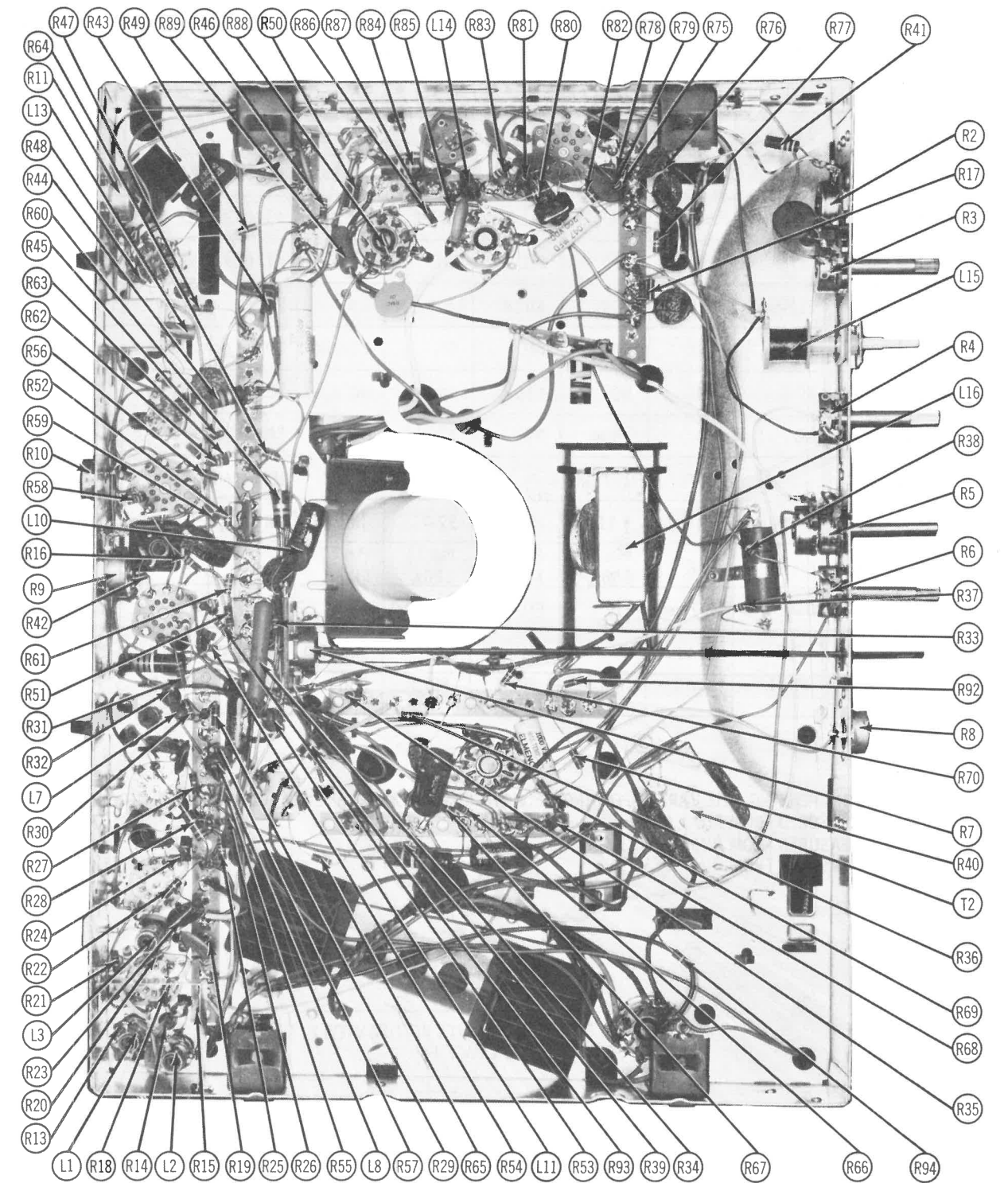
No vert. sync V5.

No horiz. sync V5.

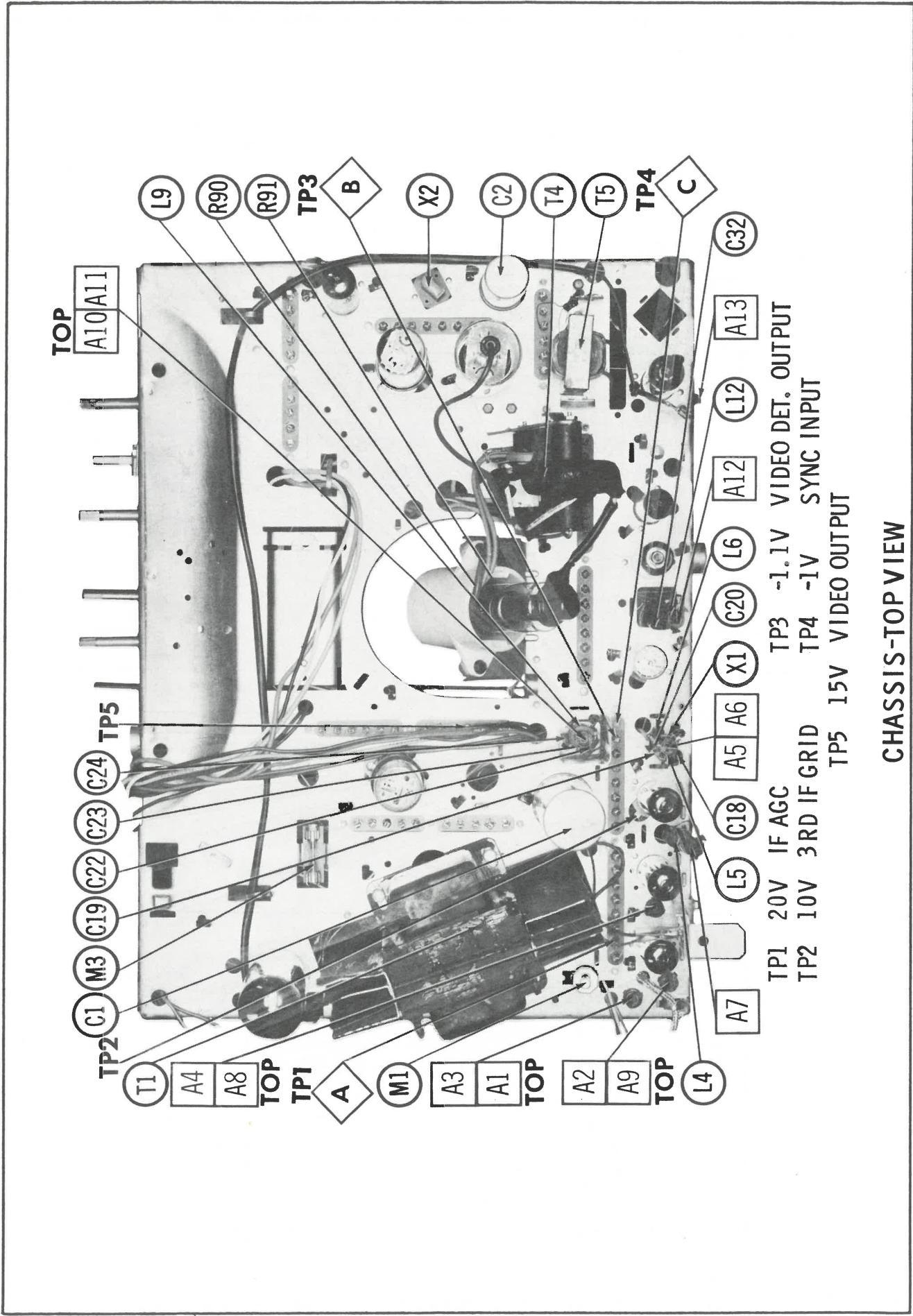
No vert. or horiz. sync V5.



CHASSIS-BOTTOM VIEW CAPACITOR, MISC IDENT.



CHASSIS-BOTTOM VIEW RESISTOR, INDUCTOR IDENT.



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 A13 GENERAL CEMENT #9302, 8608L, 8869 WALSCO # 2511, 2544, 2588
Mixer Plate 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.
Turn the Peak Picture Control to fully counterclockwise. Connect short clip lead from point C, to ground.

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.		39.75MC 41.25MC 47.25MC	A1, A2, A3, A4	Adjust for MINIMUM.
2. Connect vertical input of a scope to point B. Low side to ground.	Connect high side to pin 2 (grid) of V3. Low side to ground.	44MC (10MC Sweep)	39.75MC 45.75MC 47.25MC	A5, A6	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 42.75MC 45.0MC 45.75MC	A7, A8, A9, 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 A 5 and A6.

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 A10, A11, A12, A13 and Buzz Control. If the hiss disappears during alignment, further reduce the signal strength.



FIG. 1

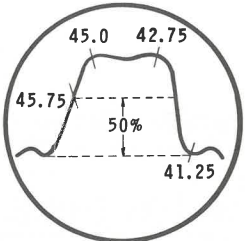
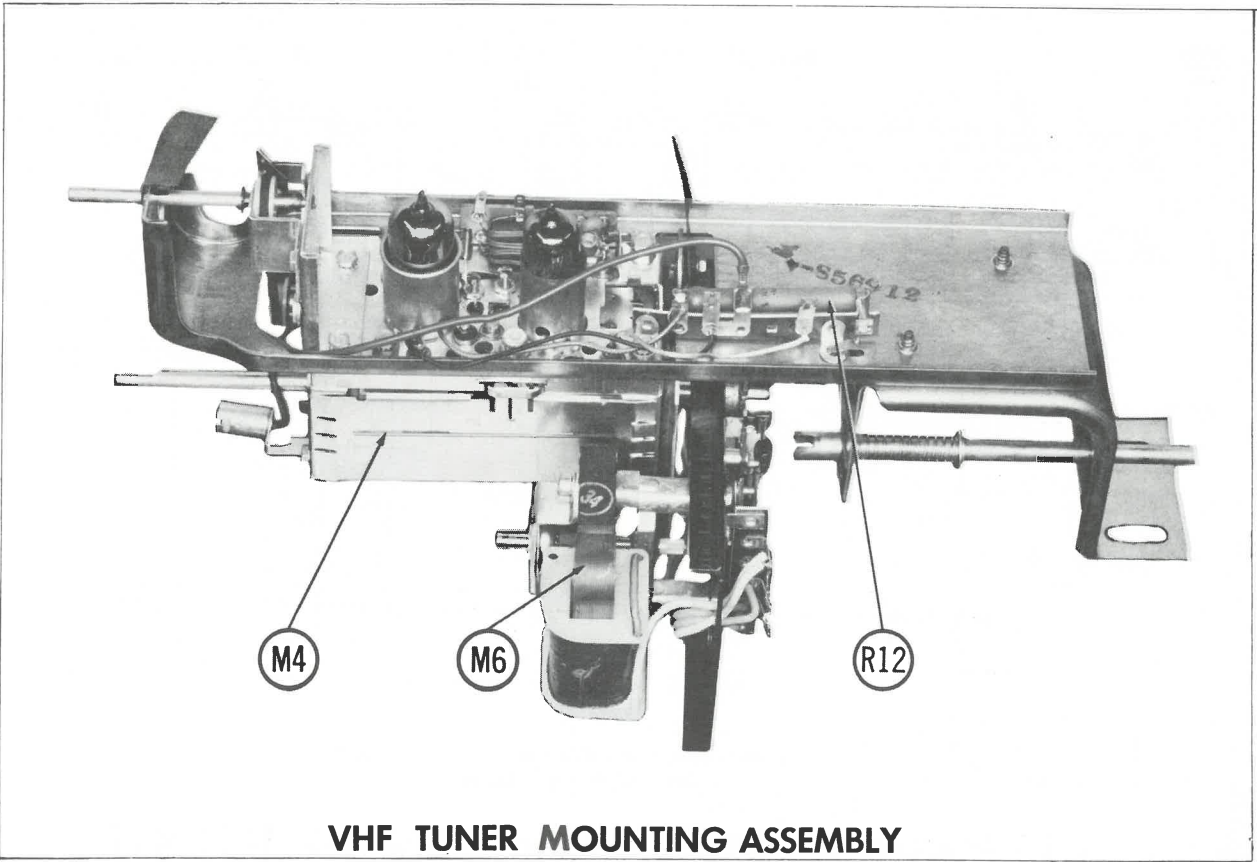


FIG. 2

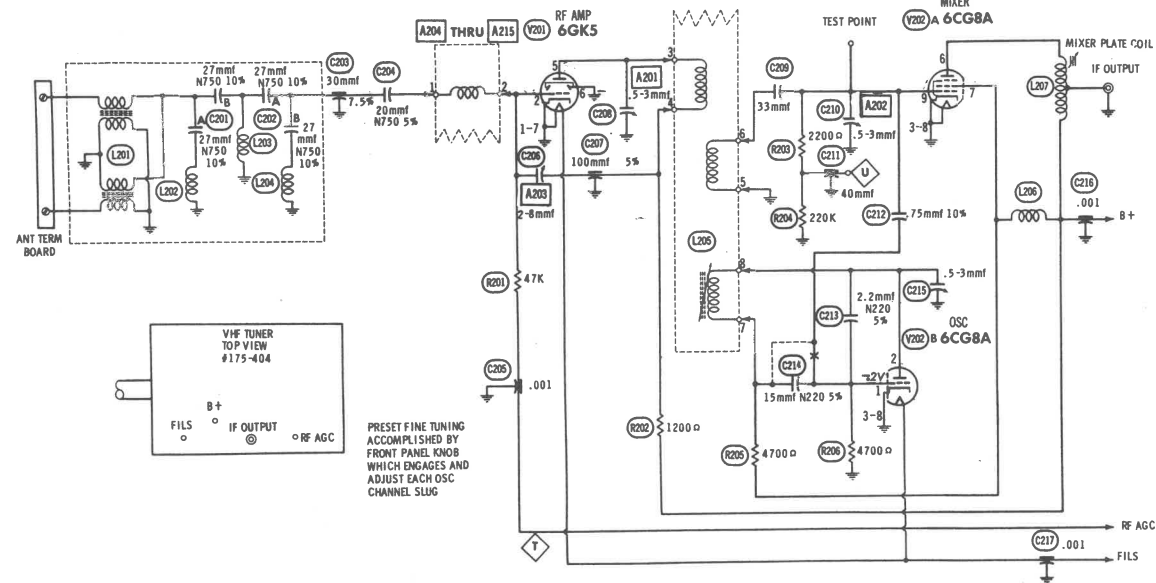


VHF TUNER MOUNTING ASSEMBLY

SET 635 FOLDER 3

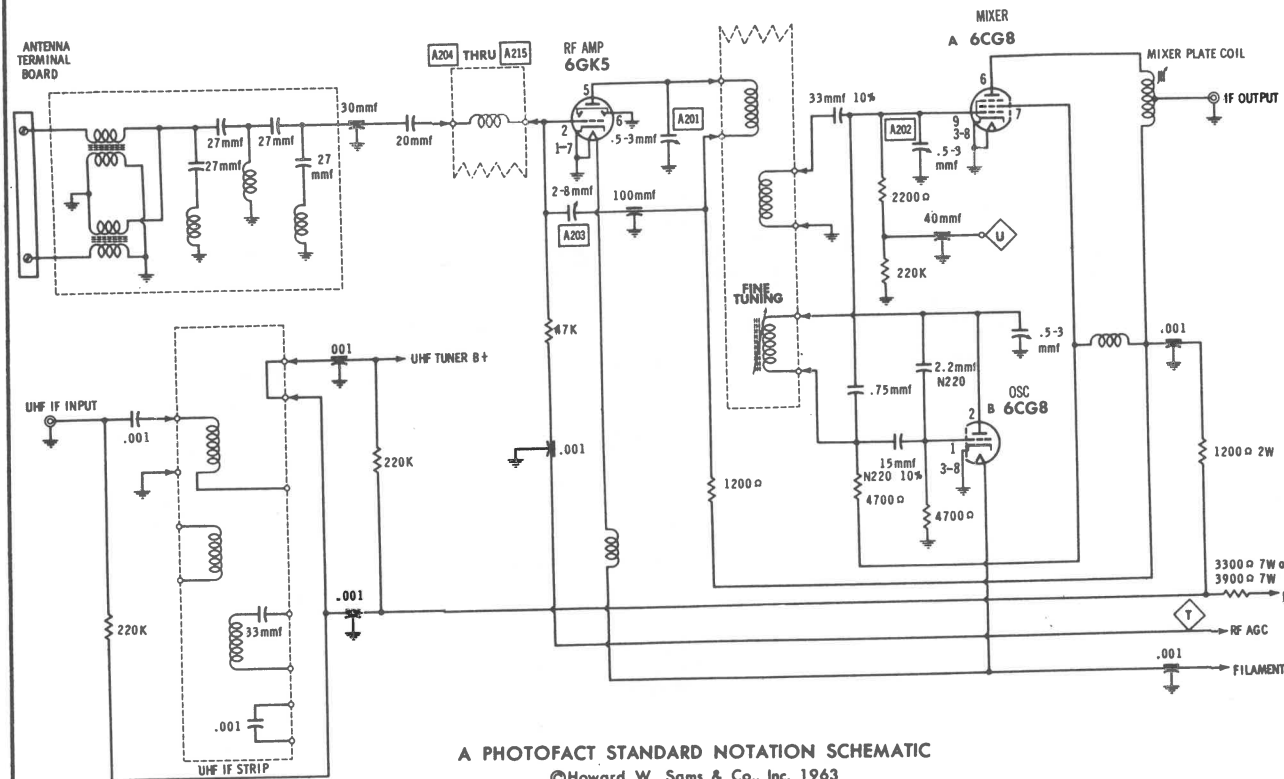
FOLDER 3

ZENITH CHASSIS
16K23/Q/QS/U



A PHOTOFAC STANDARD NOTATION SCHEMATIC
©Howard W. Sams & Co., Inc. 1963

12 POSITION TURRET-TYPE VHF TUNER 175-402, -408, -418, -452



A PHOTOFAC STANDARD NOTATION SCHEMATIC
©Howard W. Sams & Co., Inc. 1963

13 POSITION TURRET-TYPE VHF TUNER 175-401, -417

VHF TUNER ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Maintain voltage at 117 volts AC using an isolation transformer. Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A201, A202, A203 GENERAL CEMENT #9050L, 9150, WALSCO #2521, 2524

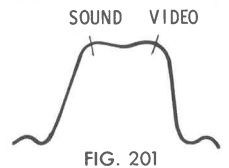
VHF OSCILLATOR ADJUSTMENT TUNERS 175-253, -254, -255

Set Fine Tuning to center of its range. Adjust the overall oscillator screw for best picture and sound. If the Fine Tuning control will not bring desired results, compress or expand coils or bend tabs to compensate.

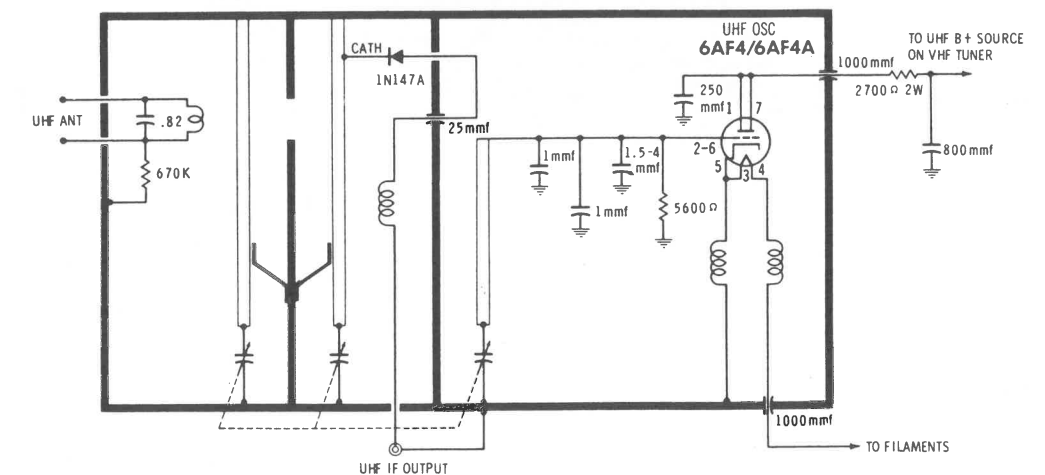
VHF RF AND MIXER ALIGNMENT

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. Use 10MC sweep unless otherwise noted. Connect variable bias to RF AGC line at point ①. Adjust bias to obtain response curve which shows no indication of overloading. Coils not containing adjustable cores are adjusted by expanding or compressing coil turns.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminal with 120Ω resistor in each lead	213MC	211.25MC 215.75MC	13	Vert. Amp. thru demodulator probe to point ①. Low side to chassis.	A201, A202	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown. — All Tuners except 175-253, 254.
2. "	177MC	175.25MC 179.75MC	7	"	A203	Adjust for MINIMUM response on scope.
	207MC	205.25MC 209.75MC	12		A201, A202	Spread or compress coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown — Tuners 175-253, 254
	201MC	199.25MC 203.75MC	11			
	195MC	193.25MC 197.75MC	10			
	189MC	187.25MC 191.75MC	9			
	183MC	181.25MC 185.75MC	8			
	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			



ZENITH CHASSIS
16K23/Q/QS/U

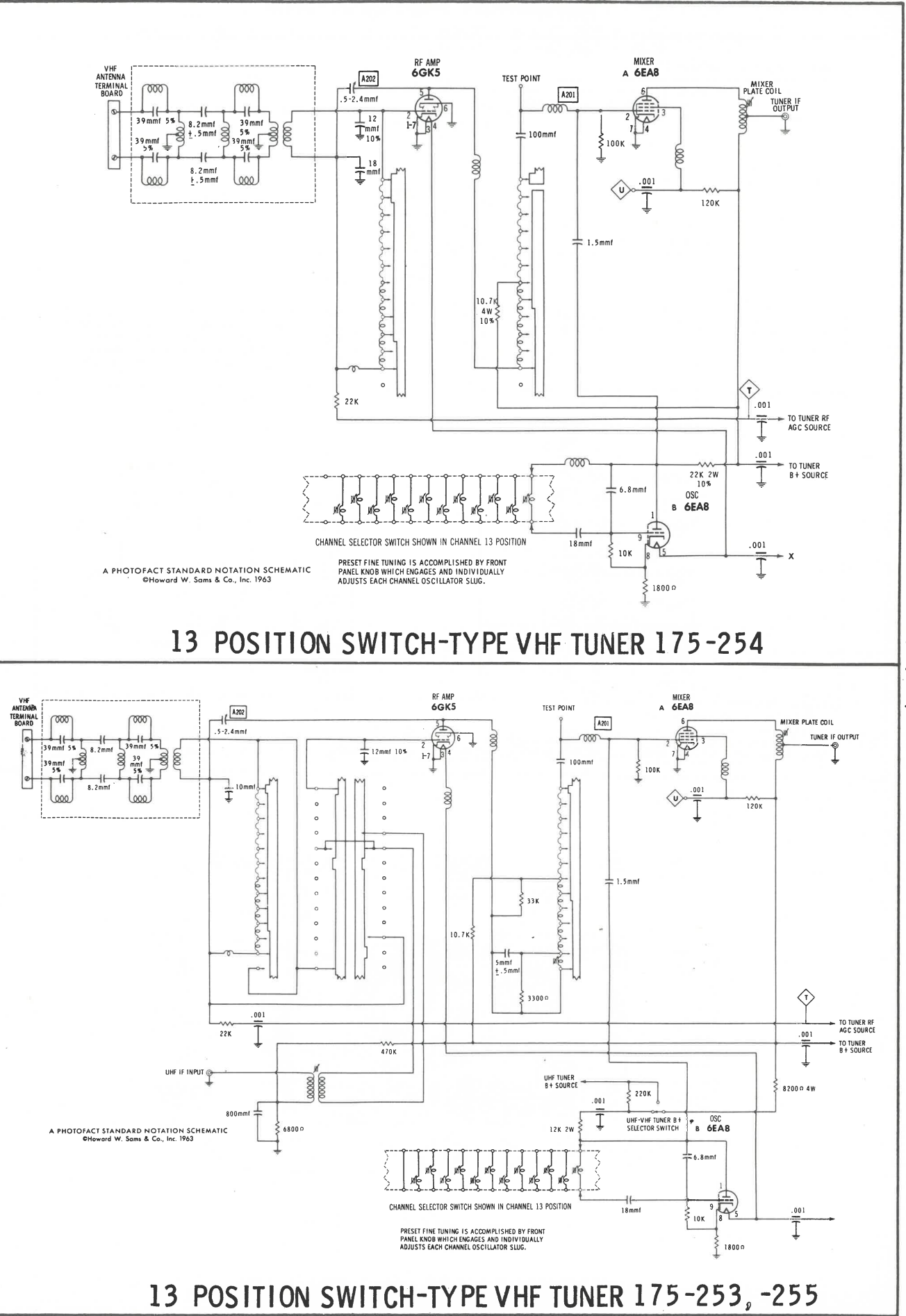
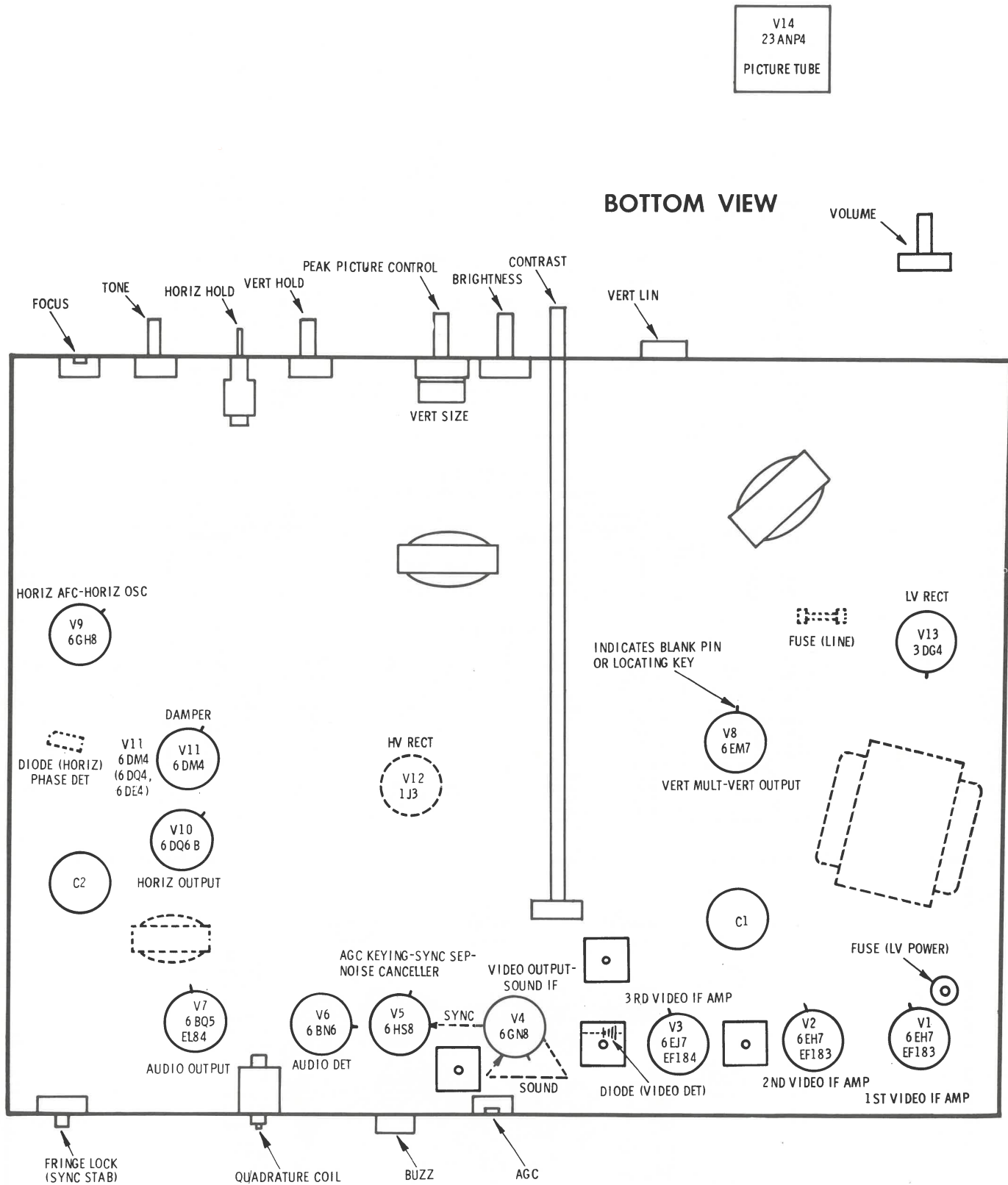


A PHOTOFAC STANDARD NOTATION SCHEMATIC
©Howard W. Sams & Co., Inc. 1963

UHF TUNER 175-8

FOLDER 3

TUBE PLACEMENT CHART



ALIGNMENT INSTRUCTIONS
VHF TUNER 175-402, -408, -401, -417, -418, -452

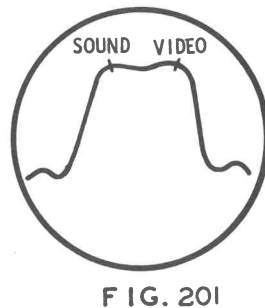
PRE-ALIGNMENT INSTRUCTIONS

The High Voltage lead should be securely taped and kept away from the chassis.
Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A201, A202, A203 GENERAL CEMENT #5000, 5003, 5066, 8276, 8290, 9087, 9089
WALSCO #2512, 2525, 2528

VHF RF AND MIXER ALIGNMENT

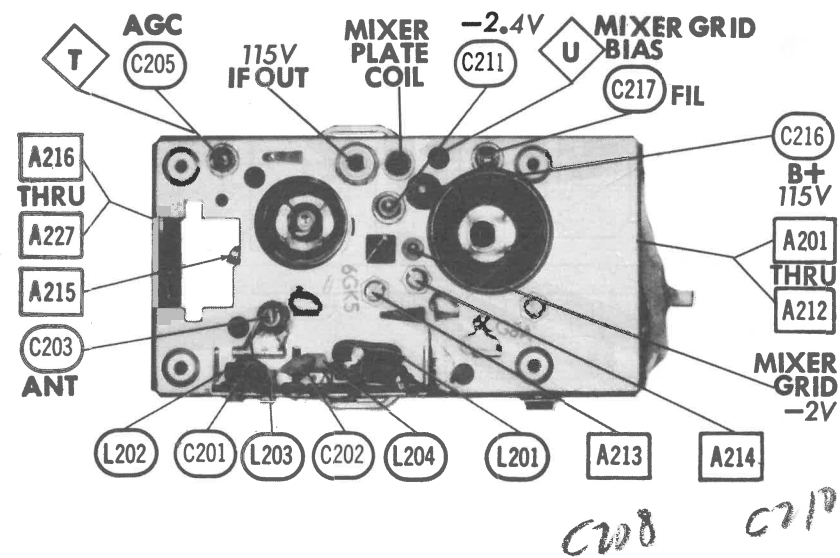
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.
Connect the negative lead of a 4.5 volt bias supply to point ∇ . Positive to chassis.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Across antenna terminals with 120 Ω in each lead.	195MC	193.25MC 197.75MC	10	Vert. Amp. thru 10K to point ∇ . Low side to chassis.	A201, A202, A203	Adjust A201 and A202 for maximum amplitude and symmetry with markers as shown in Fig. 201. Increase bias for MINIMUM amplitude of response curve. Without changing the bias adjust A203 to obtain MINIMUM response on the scope.
2.	"	213MC 207MC 201MC 195MC 189MC 183MC 177MC 85MC 79MC 89MC 83MC 57MC	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC 83.25MC 87.75MC 77.25MC 81.75MC 87.25MC 71.75MC 81.25MC 85.75MC 55.25MC 59.75MC	13 12 11 10 9 8 7 6 5 4 3 2		A204 A205 A206 A207 A208 A209 A210 A211 A212 A213 A214 A215	Adjust for maximum amplitude of response similar to Fig. 201. Adjust by expanding or compressing coil turns.



VHF OSCILLATOR ALIGNMENT

The Oscillator adjustment slug is adjusted by turning the Fine Tuning. If one or more channels cannot be tuned in properly by Fine Tuning, adjust A216. Rereck all other channels and repeat until all the operating channels can be properly tuned in.



VHF TUNER 175-402 TOP VIEW

FOLDER 3

PARTS LIST & DESCRIPTION
VHF TUNER 175-402

TUBES

AMPEREX		GENERAL ELECTRIC - RCA		RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE
V201	RF Amp.	6GK5	V202	Mixer - Osc.	6CG8A		

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201A	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27
B	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27
C202A	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27
B	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27
C203	30 7.5%	#22-3111						
C204	20 N750 5%							
C205	.001							
C206	2-8	#22-3572	EF-001	DTN-20	C10Q2U	CCF-102	CN7-420	10TCU-Q20
C207	100 5%	#8-53741		MFT-1000				
C208	.5-3			829-7				
C209	33		NPO-SI 33	829-3	C10Q33C	CV-1	CT565	10TCC-Q33
C210	.5-3			829-3		CCTN-330	CNO-433	
C211	40	#22-3112				CV-1	CT565	
C212	.75 10%	#22-3567						
C213	2.2 N220 5%	#22-3564						
C214	15 N220 5%	#22-3564						
C215	.5-3	#22-3563						
C216	.001		EF-001	829-3		CV-1	CT565	10TCR-Q15
C217	.001		EF-001	MFT-1000		CCF-102	CT280A	

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

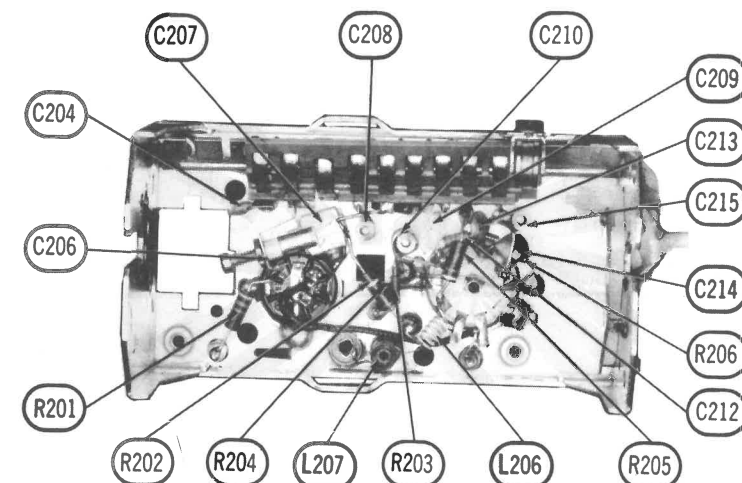
RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R201	47K				R204	220K			
R202	1200 Ω				R205	4700 Ω			
R203	2200 Ω				R206	4700 Ω			

COILS (RF-IF)

ITEM No.	USE	ZENITH PART No.	NOTES	ITEM No.	USE	ZENITH PART No.	NOTES
L201	Ant. Trans.	S-53545	Includes Filter Assembly	L205F	Ant., RF, Mixer, & Osc.	174-87	Channel 7
L202	RF Choke	20-928		G	"	174-88	Channel 8
L203	RF Choke	20-928		H	"	174-89	Channel 9
L204	RF Choke	20-880		J	"	174-90	Channel 10
L205A	Ant., RF, Mixer, & Osc.	174-82	Channel 2	K	"	174-91	Channel 11
B	"	174-83	Channel 3	L	"	174-92	Channel 12
C	"	174-84	Channel 4	M	"	174-93	Channel 13
D	"	174-85	Channel 5				
E	"	174-86	Channel 6	L206	RF Choke	20-927	
				L207	Mixer Plate	S-47370	



VHF TUNER 175-402 BOTTOM VIEW

FOLDER 3

CABINETS & CABINET PARTS (cont)
(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Escutcheon Models: RK2784M, MU, R, RU, W, WU, MK2784M, MU, R, RU, W, WU, MK2786L, LU, R, RU, W, WU, MK2787M, MU, R, RU, K2735E, EU, L, LU, R, RU, W, WU.	57-3870	Knob-Fine Tuning, Models T2050MA, MAU, RA, RAU, WA, WAU, T2052M, MU, R, RU, W, WU, T2070EA, EAU, RA, RAU, WA, WAU.	S-55366
Escutcheon, Models T3025WA, T3026HA, RA, T3027MA.	57-3896	Knob-Fine Tuning, Models K2705R, RU, Y, YU.	S-51966
Escutcheon, Models T3074LA, WA, T3075LA, WA, T3077H, R, T3079M, T3080E, R, W.	57-3895	Knob-Fine Tuning, Models T2706EA, EAU, RA, RAU, WA, WAU.	S-51170
Escutcheon, Models K3308R, Y.	57-3894	Knob-UHF Dial, All "U" Models	S-48228
Escutcheon, Models T2025WA, WAU, T2026HA, HAU, T2026RA, RAU, T2027MA, MAU.	57-3865	Knob-UHF Tuning, Models T2025WAU, T2026HAU, RAU, T2027MAU, T2050MAU, RAU, WAU, T2052MU, RU, WU, T2070EAU, RAU, WAU, T2072HAU, WAU, T2073MAU, T2075LAU, WAU, T2077HU, RU, T2079MU, T2080EU, RU, WU.	S-48229
Escutcheon, Models T2050MA, MAU, RA, RAU, WA, WAU, T2052M, MU, R, RU, W, WU, T2070EA, EAU, RA, RAU, WA, WAU.	57-3574	Knob-UHF Tuning, All other "U" Models	S-54489
Escutcheon, Models T2072HA, HAU, WA, WAU, T2073MA, MAU, T2075LA, LAU, WA, WAU, T2077H, HU, R, RU, T2079M, MU, T2080E, EU, T2080R, RU, W, WU.	57-3868	Cabinet, Model K3340E	14-4563
Escutcheon, Models K2705R, RU, Y, YU.	57-3867	Cabinet, Model K3340R	14-4562
Escutcheon, Models T2706EA, EAU, RA, RAU, WA, WAU.	57-3920	Cabinet, Model K3340W	14-4561
Escutcheon, Models K2707L, LU, Y, YU.	57-3872	Cabinet, Model K3341H	14-4566
Escutcheon, Models K2738E, EU, M, MU, R, RU, W, WU, K2737E, EU, R, RU, W, WU.	57-3573	Cabinet, Model K3341M	14-4567
Knob-Channel Selector, Models K3340E, R, W, K3341H, M, R, W, K3342H, M, R, W, K3345L, R, W, MK3386L, R, W, T3025WA, T3026HA, RA, T3027MA, T3074LA, WA, T3075LA, WA, T3077H, R, T3079M, T3080E, R, W, K3308R, Y.	S-53116	Cabinet, Model K3341R	14-4565
Knob-Channel Selector, Models K2738R, RU, W, WU, K2739E, EU, L, LU, R, RU, W, WU, MK2786L, LU, R, RU, W, WU, MK2787M, MU, R, RU, K2707L, LU, Y, YU, K2735W, WU, K2736E, EU, M, MU, R, RU, W, WU, K2737E, EU, R, RU, W, WU, K2738E, EU.	46-2977	Cabinet, Model K3341W	14-4564
Knob-Channel Selector, Models RK2784M, MU, R, RU, W, WU, MK2784M, MU, R, RU, W, WU, K2705R, RU, Y, YU.	46-2704	Cabinet, Model K3342H	14-4570
Knob-Channel Selector, Models T2025WA, WAU, T2026HA, HAU, RA, RAU, T2077H, HU, R, RU, T2079M, MU, T2080E, EU, R, RU, W, WU, T2027MA, MAU, T2072MA, MAU, T2072HA, HAU, WA, WAU, T2073MA, MAU, T2075LA, LAU, WA, WAU.	46-2976	Cabinet, Model K3342M	14-4571
Knob-Channel Selector, Models T2050MA, MAU, RA, RAU, WA, WAU, T2052M, MU, R, RU, W, WU, T2070EA, EAU, RA, RAU, WA, WAU.	46-2510	Cabinet, Model K3342R	14-4569
Knob-Channel Selector, Models T2706EA, EAU, RA, RAU, WA, WAU.	46-2532	Cabinet, Model K3342W	14-4568
Knob-Channel Selector, Models K2735E, EU, L, LU, R, RU	46-2927	Cabinet, Model K3345L	14-4278
Knob-Fine Tuning, Models K3340E, R, W, K3342H, M, R, W, MK3386L, R, W.	S-56888	Cabinet, Model K3345R	14-4277
Knob-Fine Tuning, Models K3341H, M, R, W, K3345L, R, W.	S-56911	Cabinet, Model K3345W	14-4276
Knob-Fine Tuning, Models K2707L, LU, Y, YU, K2735E, EU, L, LU, R, RU, W, WU, K2736E, EU, M, MU, R, RU, W, WU, K2738R, RU, W, WU, K2739E, EU, L, LU, R, RU, W, WU, MK2786L, LU, R, RU, W, WU, MK2787M, MU, R, RU, T2025WA, WAU, T2026HA, HAU, RA, RAU, T2027MA, MAU, T2072HA, HAU, WA, WAU, T2073MA, MAU, T2075LA, LAU, WA, WAU, T2077H, HU, R, RU, T2079M, MU, T2080E, EU, R, RU, W, WU, K2737R, RU, W, WU, K2738E, EU.	S-56267	Cabinet, Model MK3386L	14-4675
Knob-Horiz. Hold, All Models	46-3103	Cabinet, Model MK3386R	14-4676
Knob-Vert. Hold, Brightness, Tone, All Models	S-55019	Cabinet, Model MK3386W	14-4674
Knob-Volume, Models K3340E, R, W, K3341H, M, R, W, K3342H, M, R, W, K3345L, R, W, MK3386L, R, W.	S-56479	Cabinet, Model K2738R, RU	14-4458
Knob-Volume, Models K2738E, EU, R, RU, W, WU, K2739E, EU, L, LU, R, RU, W, WU, RK2784M, MU, R, RU, W, WU, MK2784M, MU, R, RU, W, WU, MK2786L, LU, R, RU, W, WU, MK2787M, MU, R, RU, K2736E, EU, M, MU, R, RU, W, WU, K2705R, RU, Y, YU, K2707L, LU, Y, YU, K2735E, EU, L, LU, R, RU, W, WU, K2737E, EU, R, RU, W, WU.	S-54961	Cabinet, Model K2738W, WU	14-4457
Knob-Volume, Models T206EA, EAU, RA, RAU, WA, WAU, T3025WA, T3026HA, RA, T3027MA, T3074LA, WA, T3075LA, WA, T3077H, R, T3079M, T3080E, R, W, K3308R, Y, T2025WA, WAU, T2026HA, HAU, RA, RAU, T2027MA, MAU, T2050MAU, RAU, WAU, T2052MU, RU, WU, T2070EAU, RAU, WAU, T2072HA, HAU, WA, WAU, T2073MA, MAU, T2075LA, LAU, WA, WAU, T2077H, HU, R, RU, T2079M, MU, T2080E, EU, R, RU, W, WU.	S-45716	Cabinet, Model K2739E, EU	14-4462
Knob-Volume, Models T2050MA, RA, WA, T2052M, R, W, T2070EA, RA, WA	S-46726	Cabinet, Model K2739L, LU	14-4463
Knob-Contrast, All Models	S-55379	Cabinet, Model K2739R, RU	14-4461
Knob-Fine Tuning, Models RK2784M, MU, R, RU, W, WU, MK2784M, MU, R, RU, W, WU.	S-52904	Cabinet, Model K2739W, WU	14-4460
Knob-Fine Tuning, Models T3025WA, T3026HA, RA, T3027MA, T3074LA, WA, T3075LA, WA, T3077H, R, T3079M, T3080E, R, W, K3308R, Y.	S-53118	Cabinet, Model RK2784M, MU	14-4670
		Cabinet, Model RK2784R, RU	14-4669
		Cabinet, Model RK2784W, WU, and MK2784W, WU	14-4668
		Cabinet, Model MK2784R, RU	14-4669
		Cabinet, Model MK2784M, MU	14-4670
		Cabinet, Model MK2786L, LU	14-4258
		Cabinet, Model MK2786R, RU	14-4259
		Cabinet, Model MK2786W, WU	14-4257
		Cabinet, Model MK2787M, MU	14-4272
		Cabinet, Model MK2787R, RU	14-4271
		Cabinet, Model T2079M, MU	14-4395
		Cabinet, Model T2080E, EU	14-4656
		Cabinet, Model T2080R, RU	14-4655
		Cabinet, Model T2080W, WU	14-4654
		Cabinet, Model K2705R, RU	14-4549
		Cabinet, Model K2705Y, YU	14-4550
		Cabinet, Model T2706EA, EAU	14-4367
		Cabinet, Model T2706RA, RAU	14-4369
		Cabinet, Model T2706WA, WAU	14-4368
		Cabinet, Model K2707L, LU	14-4551
		Cabinet, Model K2707Y, YU	14-4545
		Cabinet, Model T3025WA	14-4352
		Cabinet, Model T3026HA	14-4356
		Cabinet, Model T3026RA	14-4354
		Cabinet, Model T3027MA	14-4358
		Cabinet, Model T3074LA, T3075LA	14-4286
		Cabinet, Model T3074WA, T3075WA	14-4285
		Cabinet, Model T3077H	14-4394
		Cabinet, Model T3077R	14-4392
		Cabinet, Model T3079M	14-4396
		Cabinet, Model T3080E	14-4659
		Cabinet, Model T3080R	14-4658
		Cabinet, Model T3080W	14-4657
		Cabinet, Model K3308R	14-4549
		Cabinet, Model K3308Y	14-4550
		Cabinet, Model T2025WA, WAU	14-4351
		Cabinet, Model T2026HA, HAU	14-4355
		Cabinet, Model T2026RA, RAU	14-4353
		Cabinet, Model T2027MA, MAU	14-4357
		Cabinet, Model T2050MA, MAU	14-4466
		Cabinet, Model T2050RA, RAU	14-4476
		Cabinet, Model T2050WA, WAU	14-4475
		Cabinet, Model T2052M, MU	14-4662
		Cabinet, Model T2052R, RU	14-4661
		Cabinet, Model T2052W, WU	14-4660
		Cabinet, Model T2070EA, EAU	14-4474
		Cabinet, Model T2070RA, RAU	14-4473
		Cabinet, Model T2070WA, WAU	14-4472
		Cabinet, Model T2072HA, HAU	14-4220
		Cabinet, Model T2072WA, WAU	14-4219
		Cabinet, Model T2073MA, MAU	14-4221
		Cabinet, Model T2075LA, LAU	14-4284
		Cabinet, Model T2075WA, WAU	14-4283
		Cabinet, Model T2077H, HU	14-4393
		Cabinet, Model T2077R, RU	14-4391
		Cabinet, Model K2735E, EU	14-4160
		Cabinet, Model K2735L, LU	14-4161
		Cabinet, Model K2735R, RU	14-4159
		Cabinet, Model K2735W, WU	14-4158
		Cabinet, Model K2736E, EU	14-4452
		Cabinet, Model K2736M, MU	14-4453
		Cabinet, Model K2736R, RU	14-4451
		Cabinet, Model K2736W, WU	14-4450
		Cabinet, Model K2737E, EU	14-4456
		Cabinet, Model K2737R, RU	14-4455
		Cabinet, Model K2737W, WU	14-4454
		Cabinet, Model K2738E, EU	14-4459

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			
V1	1st Video IF Amp.	6EH7/EF183		V7	Audio Output	6BQ5/EL84			
V2	2nd Video IF Amp.	6EH7/EF183		V8	Vert. Mult. - Vert. Output	6EM7			
V3	3rd Video IF Amp.	6EJ7/EF184		V9	Horiz. AFC - Horiz. Osc.	6GH8			
V4	Video Output - Sound IF	6GN8		V10	Horiz. Output	6DQ6B			
V5	AFC Keying - Sync Sep. - Noise Canceller	6HS8		V11	Damper	6DM4 (6DQ4, 6DE4) *			
V6	Audio Detector	6BN6		V12	HV Rectifier	LJ3			
				V13	LV Rectifier	3DG4			

* Alternate

PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	ZENITH PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V14	23ANP4	23ANP4/ATP4 /BKP4/BLP4 ①	23BKP4 ①		23ANP4 ②	① Aluminized ② Silver Screen "85"

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.	
X1		103-23				Video Detector Crystal Dual Selenium, Horiz. AFC
X2		103-32				

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	ZENITH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	40	400	22-3137 ✓	AFHS4-57-93	C0890	XC3-41	FP332.2	TMT3460
B	80	400						
C	100	50						
C2A	4	350	22-3674 ✓	AFH3-174-65	XC3-1			TVLS-3672.1*
B	4	150						
C	10	400						
C3	1	350	22-3495 ✓	PRSL700	BR1-450		TT350X2	TVA-1700

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

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	470		#22-3465	BPD-00047	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C5	15 NPO 5%				DTZ-15	C10Q15C		CNO-415	10TCC-Q15
C6A	17 NPO 5%								
B	17 NPO 5%								
C7	.01 10%								
C8	.15 200V		#22-2643	P288N-15	CPR-10000J	1DR5S1	CCD-103	GP110	MS-11
C9	.15 200V			P288N-15		CUB2P15	2CP-4-154	GEM-2015	2TM-P15
C10	.01			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C11	12			SI 12	D6-120	L10Q12	CCD-120	GP412	10TS-Q12
C12	8.5 NPO								
C13A	.001 10%		#22-3221	DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
B	.001 10%			DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C14A	.001 10%			DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
B	.001 10%			DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C15	100 10%			DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C16	.001 10%		#22-2487	DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C17	.0022 10%			DI-2200	CPR-2200J	1R5D22	CCD-222	GP222	10TS-D22
C18	5.5 N470 .5mmf								
C19	4.7			NPO-SI 4.7	TCZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C20	4.7			NPO-SI 4.7	TCZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C21	.033 10%		#22-3515	BE4S33		PM4S33	4DP-2-333	PVC-2133	4PS-S33
C22	47 N75 5%			NPO-SI 3.3	TCZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C23	3.3						*		
C24	50 N75						CCTN-270	CN7-427	10TCU-Q27
C25	27 N750 10%				TCN-27	C10Q27U	*		10TCS-Q10
C26	10 N330 10%		#22-2742						
C27	50 N750				TCN-50	C10Q5U			
C28	.1 400V			P488N-1	DF-104	CUB4P1	4DP-4-104	GEM-401	4TM-P10
C29	.001			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C30	4.3 NPO 5%			#22-3139					
C31A	.001 10%		DI-1000		DD-102	5R5D1	CCD-102	GP210	10TS-D10
B	.001 10%		DI-1000		DD-102	5R5D1	CCD-102	GP210	10TS-D10
C32	470 10%		1489-00047		DD-471	5R5T47	CM-20B-471J		MS-347
C33	7.5								
C34	20 N75 10%		#22-2742						
C35	470			BPD-00047	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C36	.01			BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C37	.0022			BPD-0022	DD-222	L10D22	CCD-222	B-222	10TS-D22

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.
C38	.0033		BPD-0033	DD-332	BYA10D33	CCD-332	B-233	5HK-D33
C39	.1 400V		P488N-1	DF-104	CUB4P1	4DP-4-104	GEM-401	4TM-P10
C40	.001 10%		DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C41	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C42	.1 400V		P488N-1	DF-104	CUB4P1	4DP-4-104	GEM-401	4TM-P10
C43	220 10%		DI-2220	DD-221	L10T22	CCD-221	GP322	10TS-T22
C44	.0033		BPD-0033	DD-332	BYA10D33	CCD-332	B-233	5HK-D33
C45	.1 400V		P488N-1	DF-104	CUB4P1	4DP-4-104	GEM-401	4TM-P10
C46	.022 400V 10%		BE4S22		PM4S22	4DP-2-223	PVC-4122	4PS-S22
C47	.1 600V		P688N-1	DF-104	CUB6P1	6DP-5-104	GEM-601	6TM-P10
C48	.1 400V		P488N-1	DF-104	CUB4P1	4DP-4-104	GEM-401	4TM-P10
C49	.015 1000V 10%				16DP-4-153			
C50	.0068 200V 10%		BE6D68	CPR-6800J	PM6D68	6DP-1-682	PVC-4268	6PS-D68
C51A	.51							
C52A	.001 10%		DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C53	.0033		BPD-0033	DD-332	BYA10D33	CCD-332	B-233	5HK-D33
C54	.047 200V		BPD-00047	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C55	.047 200V		P288N-047	DD-503	CUB2S47	4DP-4-473	GEM-2147	2TM-S47
C56	.0033 10%		1469-00088	CPR-680J	5R5T68	CM-20B-68J	MS-368	6PS-D33
C57	.0033 10%		BE6D33	CPR-3300J	PM6D33	6DP-1-332	PVC-4233	6PS-D33
C58	.470		BPD-00047	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C59	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C60A	.0015 10%		DI-1500	CPR-1500J	5R5D15	CCD-1520	GP215	10TS-D15
C61	.01		DI-1500	CPR-1500J	5R5D15	CCD-1520	GP215	10TS-D15
C62	.1 600V		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-D10
C63	.110 4000V N1500		P688N-1	DF-104	CUB6P1	6DP-5-104	GEM-601	6TM-P10
C64	.56 2000V N750							

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

① Not used in some versions.

② Value may vary from 47 to 72mmf, 3000V 10% in this application.

Zenith Part Number

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			ZENITH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	1meg	63-4907 ①	AB-70, AK-33, or (F2-1meg, SFS212)	A47-1meg-Z, RS-3/16	B13-137, SK9, or (BU1, CF26, SS4, DC1) *	U-53, DS-37, or (UA16A, SD3500)
R2	Volume, Power On-Off Switch	1meg	63-4661 ②	APL-697, AK-33	C47S-1meg-S, RS-3/16	B or PPQ11-137, SK8, or (BU2, CF17, SS11, K) *	PP16L, DS-37, or (RU16L, SL-35)
R3	Focus	3meg	63-4455	TT-84, or (F1-3meg, AK-38, SN1010)	B47-3meg-S	HLC-3	SU-59, or TA36L or UA36L
R4	Tone	1meg	63-4488	B-70, or (F2-1meg, SU-204)	A47-1meg-Z, KSS-3	Q13-137, or (BU1, CF26, SS1, DC1) *	U-53, or TA16A or UA16A, SL3500
R5	Vertical Hold	750K	63-4486	B-68, or (F1-750K, SU204)	A47-750K-S, KSS-3	B11-136, TM5	U-54, or UA16L, SL3500, or TA16L
R5A	Video Peaking	1500Ω	63-4990	F1-1500, FSP11, RL-5meg	P-1500-S, P-5meg-S, FP-109		UE4379
R6	Vertical Size	5meg					
R6	Brightness	250K	63-4487	B-51, or (F2-250K, SU204, AK-38)	A47-250K-Z, KSS-3	B13-130, or TM5	U-44, or (UA254A, SL3500)
R7	Contrast	30K, 10K Tap	63-4489				
R8	Vertical Linearity	2000Ω 2W 8500Ω Stop	63-4784	WN-152 ③	39-1500 ③	112-1500 ③	FL-2K ③
R9	AGC	10K	63-4095	TT-14, or (F1-10K, AK-38, SS006)	A47-10K-S	B11-116, TM4, or (BU1, CF9, SS6) *	U-20, or UA14L, SN1000, or TA14L
R10	Buzz	750Ω, 2W 100Ω Stop	63-3284	WN-751 ④	39-800 ④	112-650 ④	FL-750 ④
R11	Fringe Lock	5meg	63-4012	F2-5meg, SS006, AK-38	B47-5meg-Z	B13-141, TM4, or (BU1, CF29, SS6) *	U-65, or (UA56A, SN1000)

① Used in Chassis 16K23QS only.

② Used in Chassis 16K23, U, 16K23Q.

* "STA-LOC" Equivalent: FA152L, OFS1687, RU56L, IK825.

③ Use 820Ω 2W Series Resistor.

④ Use 100Ω 2W Series Resistor.

* "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
R12	4700Ω 7W	PW10-4700	TW-SQ-4700		R89	10K 3W	PW5-10K	5W-SQ-10K	
R34	7500Ω 5W								

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ZENITH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1A	1st Video IF	S-51749	TV-132	6222 †	RTC-8552 †	T224 †	† Disregard Secondary. Drill mounting hole.
L2A	39.75MC Trap	S-53053	TV-152	6225 A	RTC-8556 A	T218 A	
L3A	47.25MC Trap	S-51752	TV-153	6225 A	RTC-8556 A	T218 A	A Drill new mounting hole.
L4	2nd Video IF	S-51755				TH-233	
L5	4th Video IF Ass'y	S-47987 ②	TV-130	6224	RTC-8555	TH233	① Part #S-51754 Coil only.
L6	Peaking (90uh)	20-2013	TV-181	6177	RTC-8594	T304	② Part #S-47988 Coil only.
L7	RF Choke (8uh)	20-2004	BC-565	4610	RTC-8597	T859	
L8	Peaking (170uh)	20-2014	TV-184	6180		T310	③ Part #S-50341 Coil only.
L9A	Sound Takeoff Ass'y	S-56503 ③					
L10	4.5MC Trap	20-2012	TV-185	6181	RTC-8598	T315	④ Wound on 5.6K Resistor.
L11	Peaking (250uh)	20-2504 ④	TV-186 *	6153 *	RTC-8598 *	T307 *	* Shunt with 5.6K Resistor.
L12	Sound IF Assembly	S-56508 ⑤	TV-108	1496	RTC-8537	T244	⑤ Part #S-41899 Coil only.
L13	Quadrature	S-47702	TV-121	1480	RTC-8609	T251	
L14	RF Choke (10uh)	20-2005	BC-566	4612	RTC-8522	T860	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	8000Ω	3-4Ω	95-1941	A-2932	A-3879	24898	8-18Z	

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		ZENITH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	Workman PART No.	
L15	Horiz. Osc. (Horiz. Hold)	S-56875 ①							

① Some versions may use Part #S-56875 or S-56895 in this application.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L16	.260A	50Ω	1.3 Hy.	95-1681	C-2996	C-2343	26C05	C-29X	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ZENITH PART No.	REPLACEMENT DATA
K1	Vertical Integrator		87-8	
K2	Vertical Integrator		87-7	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC ① 1.7A	510VAC CT ② .280A	3VAC ③ 3A	95-1896			26R109	R-92A	
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC ④ 7.5A								

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ZENITH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	Vert. Output	95-1656-G	A-3033 ①	A-8149	26S23	A-131X	① Cut and tape green lead.
T3	Alt. Vert. Output Yoke (Horiz. 12.5MH) 92° (Vert. 41.5MH) Bracket Assembly	95-1768	MDF-124 & M51-70-90	DY-39A ②	Y-39	Y-82-1	② Use original vertical damping resistors if necessary.
	Corrector Magnet (2) Rear Cover and Centering Device	S-55280 S-46005 S-23273 or S-43091 or S-54923 S-55842	M51-70-90			YC-112	③ Use original mounting bracket.
T4	Horiz. Output		HVO-187 ③		FLY-218	D-201 ③	

* COMPONENT CONNECTION DATA

ORIGINAL →	HV TRANSFORMER	VERTICAL OUTPUT			YOKE									
		Original Connections			Original Connections									
REPLACEMENT ↓		Blue	Red	Green	1	2	3	4	5	6	7	8	9	10
MERIT	Connect same as original	Blue	Red	White	1	2	5	4		6	7		3	8
STANCOR		Blue	Red	Black	1	2	3	4	5	6	7	8		
THORDARSON	Connect same as original	Blue	Green	Red	1	2	3	4	5	6	7	8		
TRIAD	Connect same as original	Blue	Yel.	Red	1	2	3	4	5	6	7	8		

Note 1. Use original Thermistor and connect between Yoke Terminal #7 and center lug Vertical Size control.

Note 2. Connect 1K 1/2 watt Resistor between Yoke Terminal #1 and Horizontal Output Transformer Terminal #3.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		ZENITH PART No.	QUAM PART No.	
SPI	5" x 7" PM 3-4Ω	49-907	57A21	Models: K3340/41 Series, T2050/52/72 Series, K2735/36/37 Series.
	2" x 6" PM 3-4Ω	49-945		Models: T2025/26/27 Series, K2707/17 Series, K3308 Ser.
	5" x 7" PM 6-8Ω	49-893	57A1Z6.4	Models: T2070/80 Series, K2738 Series, T3080 Series.
	6" x 9" PM 3-4Ω	49-851	69A3	Models: T2706 Series.
	3 1/2" PM 12Ω	49-782	3A15T212	Models: T2075/77 Series, K2739 Series, T3074/75/77/79 Series, K3342 Series.
		49-978		Models: MK2786/87/89 Series, MK3386 Series.
		49-985		Models: RK2784 Series.
		49-961		Models: MK2786/87 Series.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			ZENITH PART No.	LITTELFUSE PART No.	BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER
M1	N	7/10A S/B	136-38		333.700 (7/10A S/B)	346010
M2	MDX	1 1/2" #24 wire				
M3	MDX	5A S/B	136-46	83-3575	313005 (5A S/B)	357001
					MDX 5	3823-1

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M4	VHF Tuner	175-452	Models: K3340E, R, W, K3341H, M, R, W, K3342H, M, R, W, K3345L, R, W, MK3386L, R, W.
	VHF Tuner	175-402	Models: K2738R, W, K2739E, L, R, W, RK2784M, R, W, MK2784M, R, W, MK2786L, R, W, MK2787M, R, T2025WA, T2026HA, RA, T2027MA, T2072HA, WA, T2073MA, T2075LA, WA, T2077H, R, T2079M, T2080E, R, W, K2707L, Y, K2735E, L, R, W, K2736E, M, R, W, K2737E, R, W, K2738E.
	VHF Tuner	175-408	Models: T3025WA, T3026HA, RA, T3027MA, T3074LA, WA, T3075LA, WA, T3077H, R, T3079M, T3080E, R, W, K3308R, Y.
	VHF Tuner	175-418	Models: T2050MA, RA, WA, T2052M, R, W, T2070EA, RA, WA.
	VHF Tuner	175-256	Models: K2705R, Y.
	VHF Tuner	175-254	Models: T2706EA, RA, WA.
	VHF Tuner	175-401	Models: K2738RU, WU, K2739EU, LU, RU, WU, RK2784MU, RU, WU, MK2784MU, RU, WU, MK2786LU, RU, WU, MK2787MU, RU, T2025WAU, T2026HAU, RAU, T2027MAU, T2072HAU, WAU, T2073MAU, T2075LAU, WAU, T2077HU, RU, T2079MU, T2080EU, RU, WU, K2707LU, YU, K2735EU, LU, RU, WU, K2736EU, MU, RU, WU, K2737EU, RU, WU, K2738EU.
	VHF Tuner	175-417	Models: T2050MAU, RAU, WAU, T2052MU, RU, WU, T2070EAU, RAU, WAU.
	VHF Tuner	175-255	Models: K2705RU, YU.
	VHF Tuner	175-253	Models: T2706EAU, RAU, WAU.
M5	Switch	85-725	All "U" Models
M6	Motor Drive Ass'y	S-56523	AC On-Off
M7	Spark Gap	52-957	
M8	Spark Gap		Part of Picture Tube Socket

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.
C4	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C5	.05 600V		BPD-05	DD-503	CUB685	6DP-3-503	GP150	5HK-S5
C6	.05 600V		BPD-05	DD-503	CUB685	6DP-3-503	GP150	5HK-S5
C7	.05 600V		BPD-05	DD-503	CUB685	6DP-3-503	GP150	5HK-S5
C8	.05 600V		BPD-05	DD-503	CUB685	6DP-3-503	GP150	5HK-S5
C9	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C10	820 10%		1469-00082	CPR-82LJ	5R5T82	CM-20B-82LJ		MS-382
C11	820 10%		1469-00082	CPR-82LJ	5R5T82	CM-20B-82LJ		MS-382
C12	.0033		BPD-0033	DD-332	BYA10D33	CCD-332	B-233	5HK-D33
C13	.05 600V		BPD-05	DD-503	CUB685	6DP-3-503	GP150	5HK-S5
C14	.001 10%		1469-001	CPR-1000J	1R5D1	CM-20B-102J	MCB235	MC-21

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ZENITH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1	Interstage(40.75 KC)	S-54580					
L2	Detector (41.25 KC)	S-54630					
L3	Detector (40.25 KC)	S-54631					

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .033A	22VAC @ .025A DC		95-1993					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			ZENITH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	15/100 S/B	136-52		313.150 (15/100 S/B)	357001	MDL 15/100	3823-1

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M2	Switch	85-645	Auto-Manual Switch
M3	Relay	195-10	
M4	Relay	195-10	
M5	Relay	S-56784	
M6	Microphone	S-54636	

WIRING DATA

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

SET 635 FOLDER 3-A

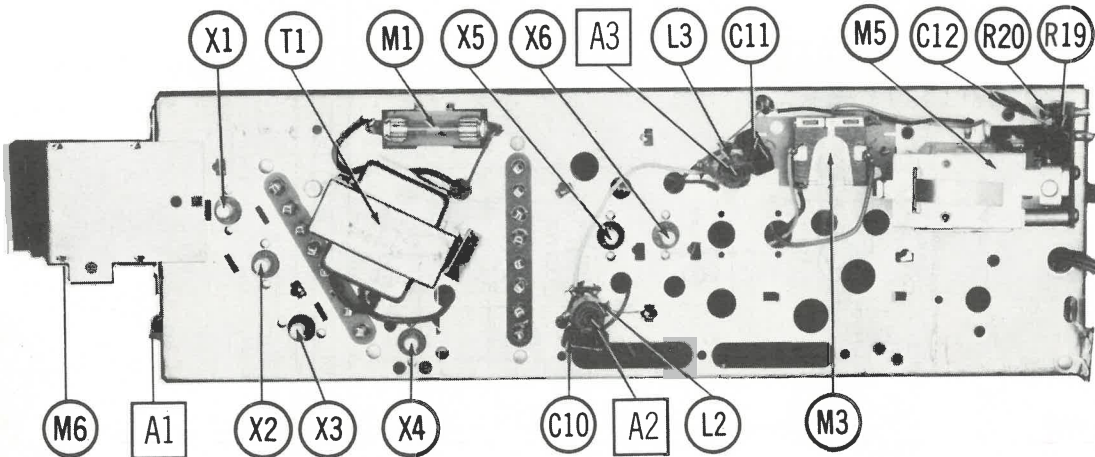
ZENITH REMOTE CONTROL
RECEIVER S-56853

PHOTOFACT® Folder



IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.



TRADE NAME Zenith
MANUFACTURER Zenith Radio Corp., 6001 Dickens Avenue, Chicago 39, Illinois
TYPE SET Remote Control Chassis S-56853
TRANSISTORS Six
POWER SUPPLY 110-120 Volts AC, 60 Cycle
RATING 5 Watts, .025 Amp. @ 117 Volts AC

ALIGNMENT INSTRUCTIONS

REMOTE CONTROL RECEIVER ALIGNMENT S-56853					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. High side thru 100K to microphone input. Low side to ground.	40.75MC		AC probe to point A. Common to ground.	A1	Adjust for maximum deflection.
2. "	41.25 KC		DC probe to point B. Common to point C.	A2	Adjust for MINIMUM deflection.
3. "	40.25KC		DC probe to point D. Common to point E.	A3	"

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
MA030

part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

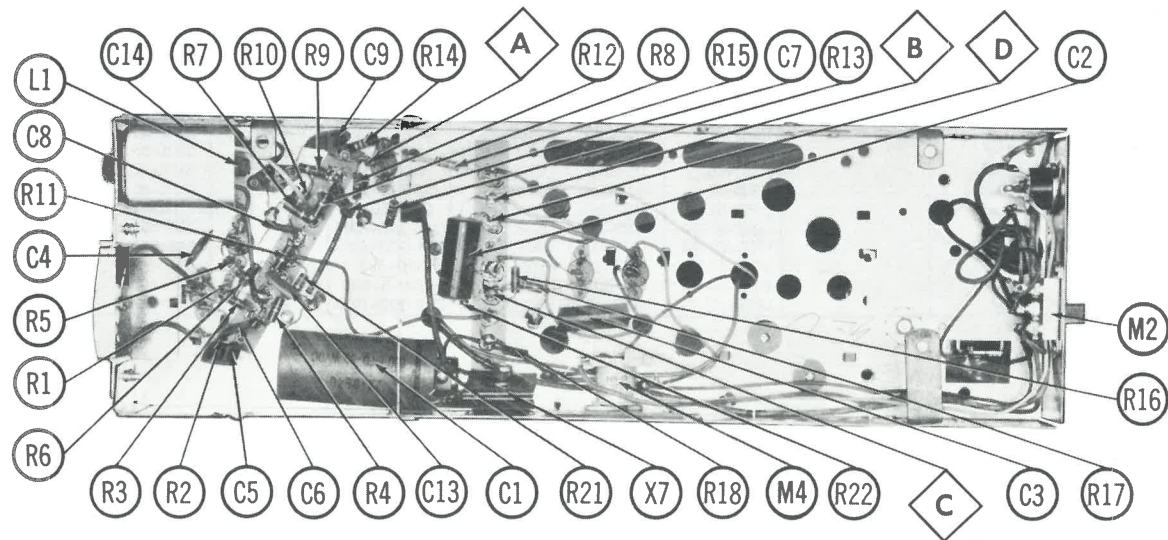
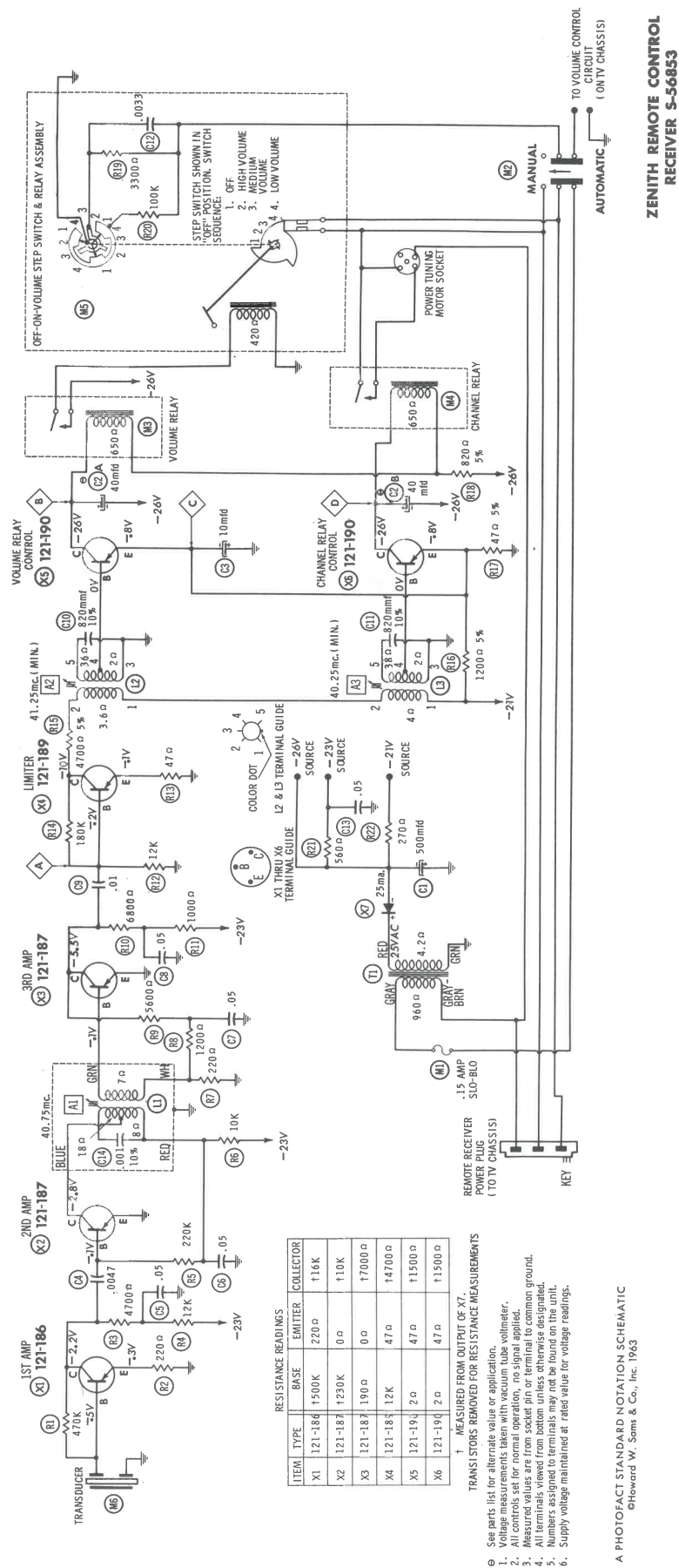
Printed in U.S. of America

DATE 5-63

SET 635 FOLDER 3-A

ZENITH REMOTE CONTROL
RECEIVER S-56853

SET 635 FOLDER 3-A



CHASSIS—BOTTOM VIEW

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	121-186	1st Amp.	DS25	GE1	2N218	PNP
X2	121-187	2nd Amp.	DS25	GE1	2N218	
X3	121-187	3rd Amp.	DS25	GE1	2N218	
X4	121-189	Limiter	DS25	GE1	2N218	
X5	121-190	Volume Relay Control	DS26	GE2	2N218	
X6	121-190	Channel Relay Control	DS26	GE2	2N218	

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.	
X7	24MA	212-36	A100	1N1763	72Z	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	ZENITH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	500	50	22-3640	PRS1390	BR500-50	QTI-31	TC50050	TD-500-150	TVA-1315
C2A	40	30 ①	22-3643	PTS2195	NLW40-50	QTI-13	PETA1980	TD-40-150	TVA-1413
B	40	30		PTT97	NLW40-50	QTI-13	PETA1980	TD-40-150	TVA-1413
C3	10	3	22-3705	PTT6	NLW10-6	MT1-5	TT3X10	MLV10-3	TE-1053

① Some versions may use 40-25/30V (Part #22-3647) in this application.

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.
C6	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C7	.05		BPD-05	DD-503	CUB685	6CP-4-503	GPI50	5HK-S5
C8	.05		BPD-05	DD-503	CUB685	6CP-4-503	GPI50	5HK-S5
C9	.05		BPD-05	DD-503	CUB685	6CP-4-503	GPI50	5HK-S5
C10	.05		BPD-05	DD-503	CUB685	6CP-4-503	GPI50	5HK-S5
C11	.05		BPD-05	DD-503	CUB685	6CP-4-503	GPI50	5HK-S5
C12	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C13	820 5%		1469-00082	CPR-820J	5R5T82	CM-20B-821J		MS-382
C14	820 5%		1469-00082	CPR-820J	5R5T82	CM-20B-821J		MS-382
C15	820 5%		1469-00082	CPR-820J	5R5T82	CM-20B-821J		MS-382
C16	820 5%		1469-00082	CPR-820J	5R5T82	CM-20B-821J		MS-382
C17	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C18	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10

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
R19	100Ω 4W	PW5-100	5W-SQ-100						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		ZENITH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.		
L1	Interstage (39.5KC)	S-54580						
L2	Detector (41.25KC)	S-54578						
L3	Detector (40.25KC)	S-54577						
L4	Detector (38.75KC)	S-54576						
L5	Detector (37.75KC)	S-54575						

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA						NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.		
T1	117VAC ① .033A	21VAC ② .024A DC		95-1993 95-1993-A ① 95-1994 ②						① Alternate. ② Used with Remote Chassis #S-56884.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			ZENITH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	MDL	15/100A S/B	136-52		313.150 (15/100 S/B)	357001	MDL 15/100	3823-1

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M2	Relay	195-11	Tune Higher
M3	Relay	195-11	Tune Lower
M4	Relay	S-56785	Sound B1 Stable Mute
M5	Relay	S-56253	Step Volume, Model S-56854
	Relay	S-56252	Step Volume, Model S-56884
M6	Relay	195-10	Pilot Mute Relay
M7	Relay	195-10	Pilot Volume On-Off
M8	Switch	85-645	Auto Manual Switch
M9	Microphone	S-54591	

WIRING DATA

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

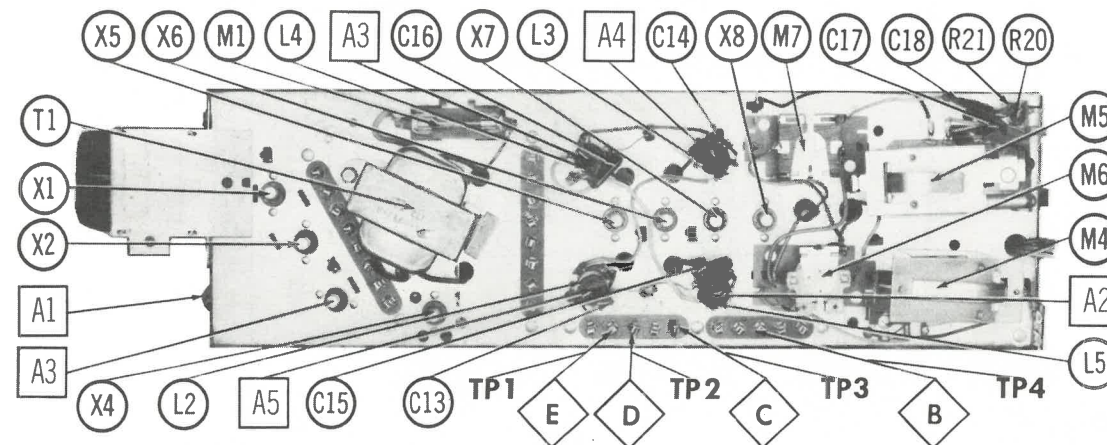
PHOTOFACT® Folder

SET 635 FOLDER 3-B

ZENITH REMOTE CONTROL RECEIVER S-56854, S-56884

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.



TP1 -26V TUNE HIGH RELAY
TP2 -26V TUNE LOW RELAY

TP3 -26V MUTE RELAY
TP4 -26V VOL ON-OFF RELAY

TRADE NAME Zenith Chassis S-56854, S-56884
MANUFACTURER Zenith Radio Corp., 6001 Dickens Avenue, Chicago 39, Illinois
TYPE SET Transistor Remote Control Receiver
TRANSISTORS Eight
POWER SUPPLY 110-120 Volts AC 60 Cycle RATING 5 Watts, .03 Amp. @ 117 Volts AC

ALIGNMENT INSTRUCTIONS

REMOTE CONTROL RECEIVER ALIGNMENT					
Suggested Alignment Tools: GENERAL CEMENT #8606, 8606L, 8869 WALSCO #2543, 2544, 2588					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. High side thru 100K to base of X1. Low side to ground.	39.5KC		AC probe to point A. Common to ground.	A1	Adjust for maximum.
2. "	37.75KC		DC probe to point B. Common to ground.	A2	Adjust for MINIMUM.
3. "	38.75KC		DC probe to point C. Common to ground.	A3	"
4. "	40.25KC		DC probe to point D. Common to ground.	A4	"
5. "	41.25KC		DC probe to point E. Common to ground.	A5	"

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. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

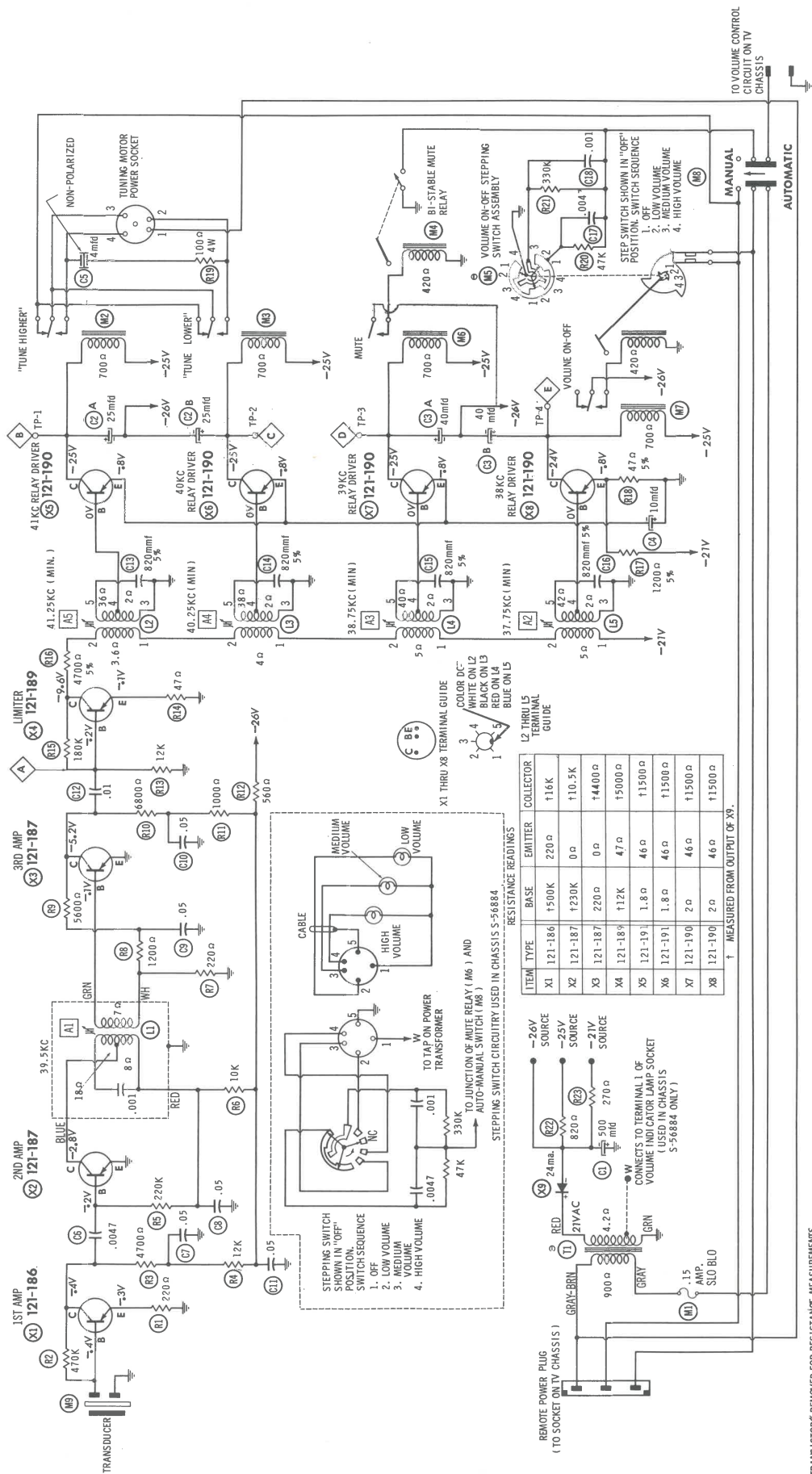
Printed in U.S. of America

DATE 5-63

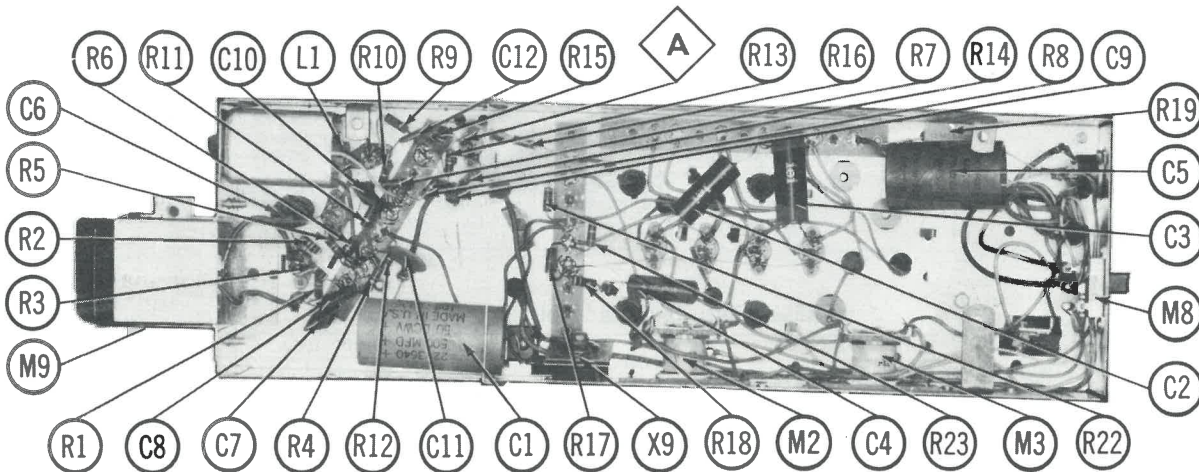
SET 635 FOLDER 3-B

ZENITH REMOTE CONTROL RECEIVER S-56854, S-56884

SET 635 FOLDER 3-B



ZENITH REMOTE CONTROL
RECEIVERS S-56854, S-56884



CHASSIS - BOTTOM VIEW

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	121-186	1st Amp.	DS-25	GE1	2N218	PNP
X2	121-187	2nd Amp.	DS-25	GE1	2N218	PNP
X3	121-187	3rd Amp.	DS-25	GE1	2N218	PNP
X4	121-189	Limiter	DS-25	GE1	2N218	PNP
X5	121-190	Relay Driver 41KC	DS-26	GE2	2N218	PNP
X6	121-190	Relay Driver 40KC	DS-26	GE2	2N218	PNP
X7	121-190	Relay Driver 39KC	DS-26	GE2	2N218	PNP
X8	121-190	Relay Driver 38KC	DS-26	GE2	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.	
X9	24MA	212-36	A100	1N1763	72Z	When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	ZENITH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	500	50	22-3640	PRS1390	BR500-50	QT1-31		TD-500-50	TVA-1315
C2A	25	30	22-3642	PTT95	ECPAN23	MT1-12	PET1960	MLV25-50	TVA-1306
C2B	25	30		PTT95		MT1-12	PET1960	MLV25-50	TVA-1306
C3A	40	30		PTT97		MT1-14	TT50X50	MLV50-50	TE-1307
C3B	40	30	22-3643	PTT97	ECPAN25	MT1-14	TT50X50	MLV50-50	TE-1307
C4	10	3	22-3705	PTT6	NLW10-6	MT1-5	TT3X10	MLV10-3	TE-1053
C5	4	200NF	22-2893	PRS7750		NPQT-2			TVANB-1436 *

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

L10	3rd AM IF Discriminator	95-1102 95-1153	BC-355	12-C6	RTC-8834	T809
L11						
TRANSFORMER (POWER)						
REPLACEMENT DATA						
ITEM No.	RATING		ZENITH PART No.	Merit PART No.	Thordarson PART No.	NOTES
T1	PRI. 117V@ .28A SEC. 1 115V@ .230A AC Tap@ 6.3V@ .5A	SEC. 2	95-1772			
SIGNAL DIODES						
REPLACEMENT DATA						
ITEM No.	ORIG. TYPE	ZENITH PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.		NOTES
M1	WFN2740M	103-29				AFC (Varicap silicon diode).

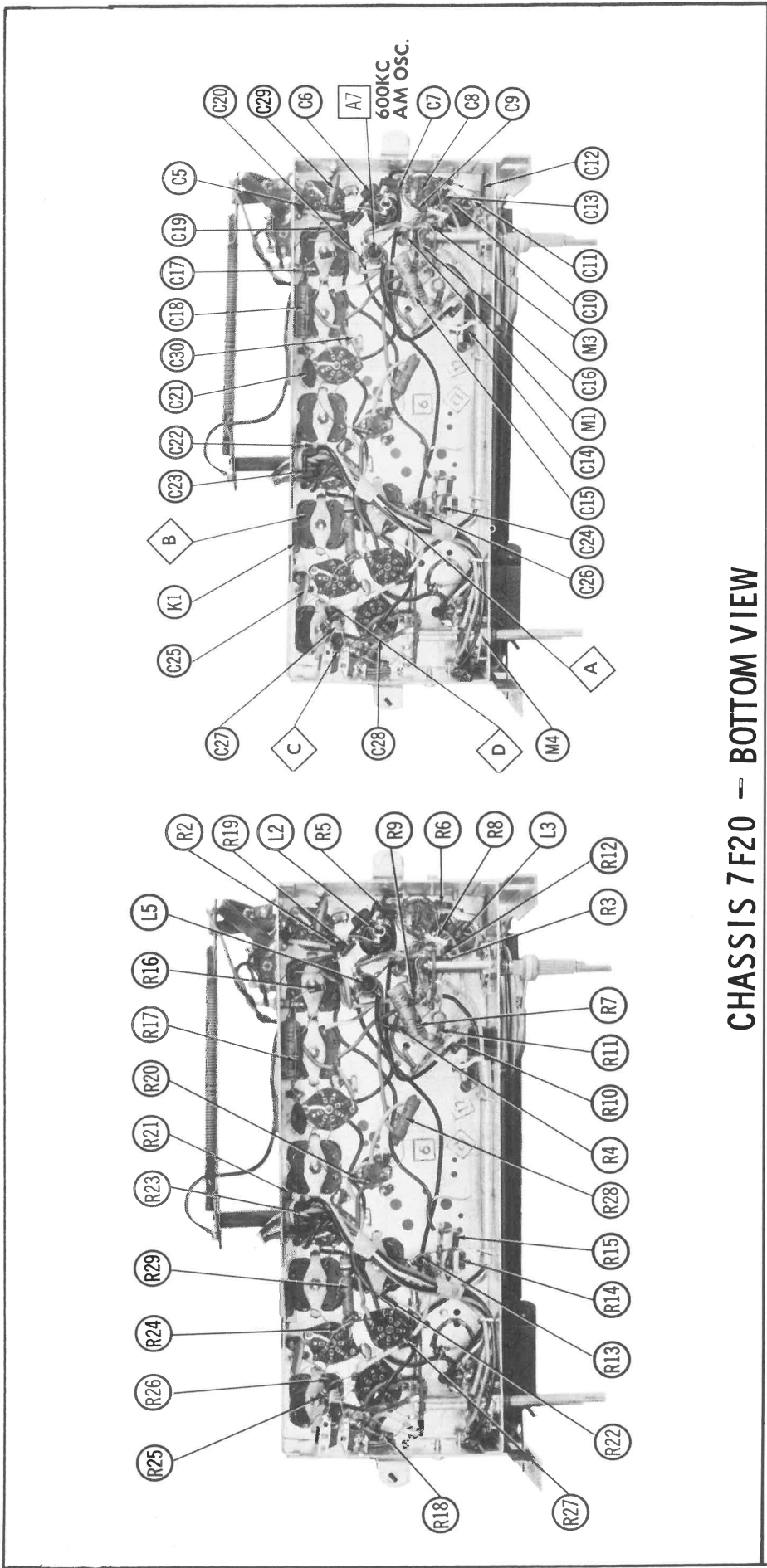
C12	.01	N330	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C13	50	200V	DF-102	CUB2P1	2DP-3-104	GEM-201	10TCS-Q47
C14	.1	200V	DD-503	CUB2S47	4DP-3-473	GEM-4147	2TM-F10
C15	.047	200V	DD-102	BYA10D1	CCD-102	B-210	5HK-S10
C16	.001		MFT-1000	CUB2S47	CCF-102	CT280A	5HK-D10
C17	.001	200V	DD-503	BYA10S1	4DP-3-473	GEM-4147	2TM-S47
C18	.01		DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C19	.01		DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C20	.01		DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C21	.0047		DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C22	.0022		DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C23	100		DD-222	BYA10D22	CCD-222	G-210	5HK-S10
C24	.01		DD-101	BYA10S1	CCD-101	B-110	5HK-S10
C25	.01		DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C26	.01		DD-102	BYA10S1	CCD-102	B-110	5HK-S10
C27	.0047	10K	DD-680	BYA10S1	CCD-680	GP388	10TS-T68
C28	.0047	10K	DD-4700	BYA10S1	CCD-4700	UL-247	10TS-D47
C29A	.0047	10K	BPD-22X0047	BYA10S1	CCD-472	B-247	5HK-S10
C30	.01		BPD-01	BYA10S1	CCD-103	B-110	5HK-S10

Zenith Part Number. Available thru distributor on order to manufacturer.

RESISTORS

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

ITEM No.	REPLACEMENT DATA		REPLACEMENT DATA	
	IRV PART No.	WORKMAN TV PART No.	RATING	REMARKS
R1			3.9meg	
R2			1.5meg	
R3			1000Ω	
R4			2.2meg	
R5			47K	
R6			220K	
R7			2.2meg	
R8			4.7meg	
R9				
R10				
R11				
R12				
R13				
R14				
R15				
R16				
R17				
R18				
R19				
R20				
R21				
R22				
R23				
R24				
R25				
R26				
R27				
R28				
R29				
R30				



CHASSIS 7F20 - BOTTOM VIEW



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

ZENITH AM-FM CHASSIS 7F20, 7F20L

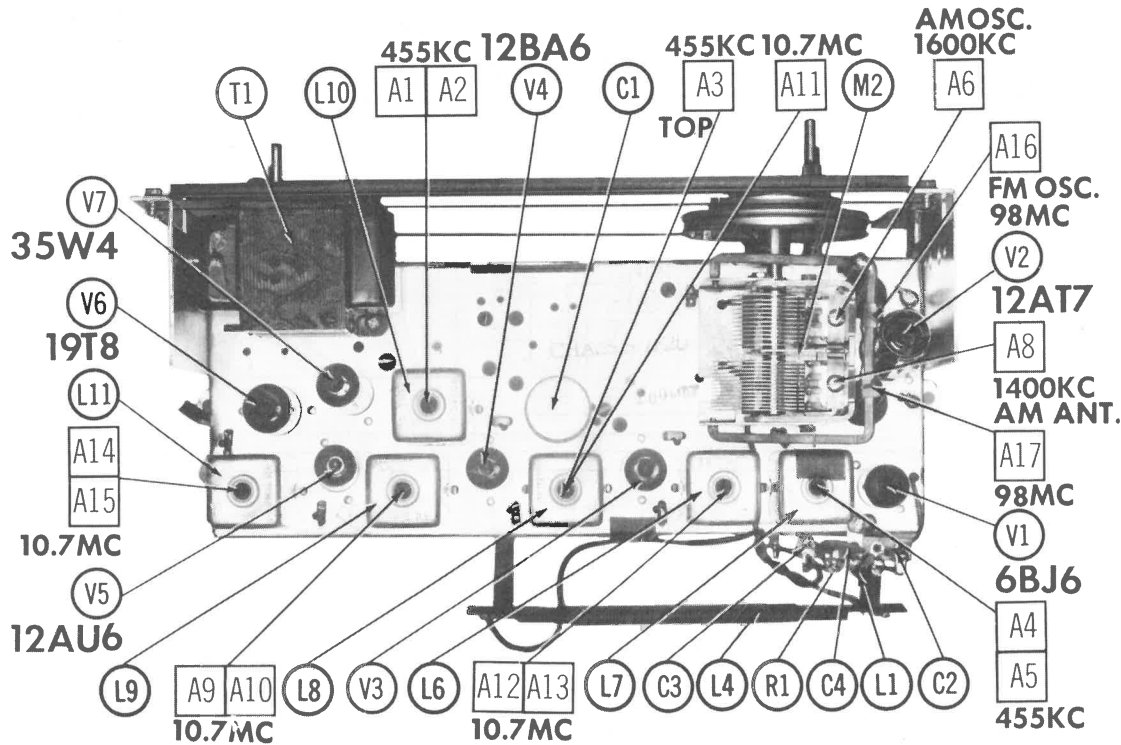
SET 635 FOLDER3-C

PHOTOFACT® Folder



IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3 . File this Folder with the TV Folder in the yellow filing jacket provided.



CHASSIS 7F20

TRADE NAME Zenith
MANUFACTURER Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Illinois
TUBES Seven
POWER SUPPLY 110-120 Volts AC, 60 Cycle
RATING 155 Watts, 1.4 Amp. @ 117 Volts AC

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

part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

Printed in U.S. of America

DATE 5-63

SET 635 FOLDER 3-C

ZENITH AM-FM CHASSIS 7F20, 7F20L

SET 635 FOLDER3-C

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	ITEM No.	TYPE	ITEM No.	USE	ITEM No.	TYPE	ITEM No.	TYPE
V1	FM RF Amplifier	6BJ8		V4	2nd FM-AM IF Amp.	12BA6			
V2	FM Mixer-FM Osc. - AM Mixer-AM Osc.	12AT7		V5	FM Limiter	12AU6			
V3	1st FM-AM IF Amp.	12BA6		V6	Disc.-AM Det.	19T8			
				V7	Rectifier	35W4			

ELECTROLYTIC CAPACITORS

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	CAP. VOLT.	CORNELL-DUBIER	GENERAL ELECTRIC	MALLORY	SPRAGUE
C1A	.001	B0180	XC2-30	FP216.2	TVL-2442.1
C1B	.001				

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	CAP. VOLT.	CORNELL-DUBIER	GENERAL ELECTRIC	MALLORY	SPRAGUE
C2	15 N330 10%	DD-103	BYA1081	CCD-103	10TS-Q15
C3	15 N330 10%	D6-102	BYA1081	CCD-102	5HK-S10
C4	.01	D6-102	BYA1081	CCD-102	5HK-D10
C5	.001	TCZ-R68	BYA1081	CCD-102	5HK-D10
C6	.001	D6-102	BYA1081	CCD-102	5HK-D10
C7	22 N075 5%	D6-102	BYA1081	CCD-102	5HK-D10
C8	.68 10%	D6-102	BYA1081	CCD-102	5HK-D10
C9	.001	D6-102	BYA1081	CCD-102	5HK-D10
C10	4 NPO 5%	D6-102	BYA1081	CCD-102	5HK-D10
C11	19 N150 5%	D6-102	BYA1081	CCD-102	5HK-D10
C12	.01	D6-102	BYA1081	CCD-102	5HK-D10
C13	50 N330	D6-102	BYA1081	CCD-102	5HK-D10
C14	.1 200V	D6-102	BYA1081	CCD-102	5HK-D10
C15	.047 200V	D6-102	BYA1081	CCD-102	5HK-D10
C16	.001	D6-102	BYA1081	CCD-102	5HK-D10
C17	.001	D6-102	BYA1081	CCD-102	5HK-D10
C18	.047 200V	D6-102	BYA1081	CCD-102	5HK-D10
C19	.01	D6-102	BYA1081	CCD-102	5HK-D10
C20	.01	D6-102	BYA1081	CCD-102	5HK-D10
C21	.0047	D6-102	BYA1081	CCD-102	5HK-D10
C22	.01	D6-102	BYA1081	CCD-102	5HK-D10
C23	.0022	D6-102	BYA1081	CCD-102	5HK-D10
C24	.01	D6-102	BYA1081	CCD-102	5HK-D10
C25	.01	D6-102	BYA1081	CCD-102	5HK-D10
C26	.01	D6-102	BYA1081	CCD-102	5HK-D10
C27	.01	D6-102	BYA1081	CCD-102	5HK-D10
C28	.01	D6-102	BYA1081	CCD-102	5HK-D10
C29	.01	D6-102	BYA1081	CCD-102	5HK-D10
C30	.01	D6-102	BYA1081	CCD-102	5HK-D10

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

RESISTORS

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

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	RES.	WORKMAN	REMARKS	ITEM No.	RES.
R1	2.2meg			R9	3.9meg
R2	220Ω			R10	1.5meg
R3	220Ω			R11	1000Ω
R4	220Ω			R12	2.2meg
R5	1000Ω			R13	47K
R6	10K			R14	220K
R7	390K			R15	2.2meg
R8	100K			R16	4.7meg

RESISTORS (cont)

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	RES.	WORKMAN	REMARKS	ITEM No.	RES.
R17	4.7meg			R24	15K
R18	220Ω			R25	150K
R19	220Ω			R26	150K
R20	220Ω			R27	100K
R21	100K			R28	820Ω 3W
R22	220Ω			R29	390 1W
R23	100Ω				

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ZENITH PART No.	REPLACEMENT DATA
K1	Limiter Grid	25mmf, 100K	106-42	

COILS (RF-IF)

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	USE	ZENITH PART No.	Miller PART No.	Stencor PART No.	Workman TV PART No.
L1	FM Ant. (1.1uh)	20-682	BC-561	4602	RTC-8515
L2	FM RF	S-13871			T655
L3	FM RF	S-15691			T532
L4	Loopstick	S-49113			T630
L5	AM Osc.	S-43067			RTC-9038
L6	1st FM IF	95-1150			RTC-8877
L7	1st AM IF	95-1250			
L8	2nd FM IF	95-1251			
L9	3rd FM IF	95-1150			
L10	3rd AM IF	95-1102			
L11	Discriminator	95-1153			

TRANSFORMER (POWER)

RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	SEC. 1 SEC. 2	ZENITH PART No.	Merit PART No.	Stencor PART No.	Thordenson PART No.
T1	117V @ .28A 115V @ .28A Tap @ 6.3V @ .5A	95-1772			

SIGNAL DIODES

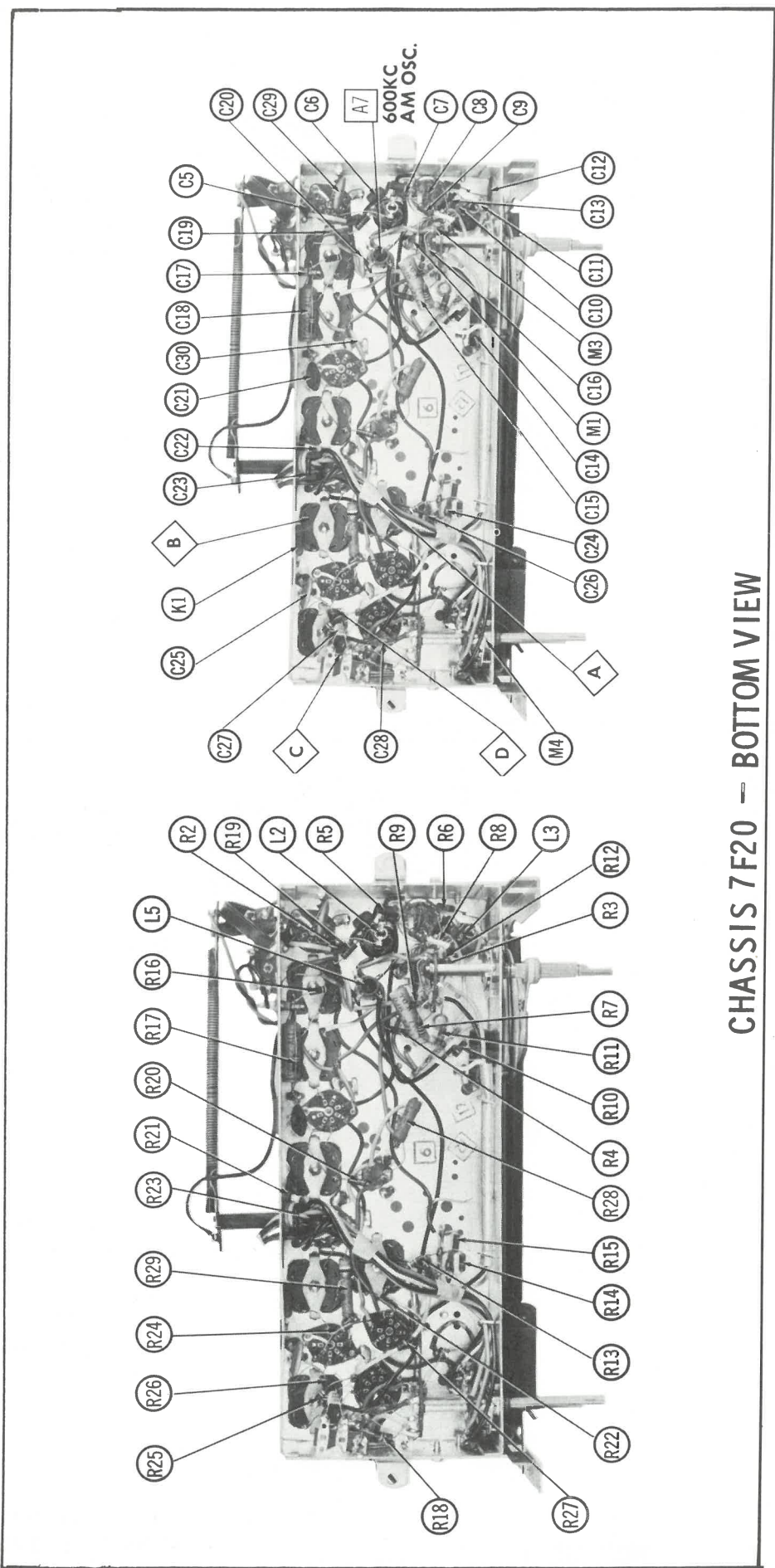
RATING		REPLACEMENT DATA		REPLACEMENT DATA	
ITEM No.	GEN. TYPE	ZENITH PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	NOTES
M1	WFN2740M	103-29			APC (Varicap silicon diode).

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M2	Tuning Cap. Switch	22-3039	2 Gang (Ant. 7-403mmf, Osc. 9-134mmf)
M3	Switch	85-873	Band Selector (Rotary Wafer Type)
M4	Switch	85-872	Phono-Off-Radio (Function, Rotary Wafer)

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
 Power Cord Use BELDEN No. 8524 (Stranded) Available in Ten Colors
 1785-B (6 Ft. Length)
 1725-K (1/2 Ft. Length)



CHASSIS 7F20 - BOTTOM VIEW



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

TRADE NAME Zenith
 MANUFACTURER Zenith Radio Corp., 6001 Dickens Ave.
 TUBES Seven
 POWER SUPPLY 110-120 Volts AC, 60 Cycle

HOWARD W. SAMs & CO.

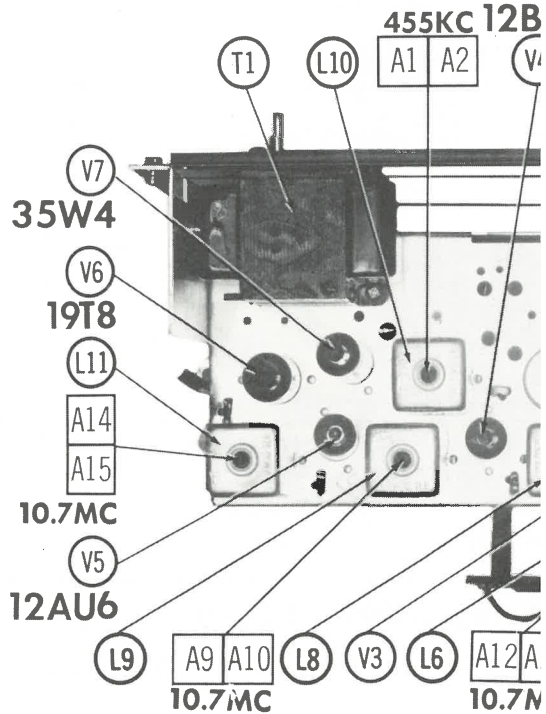
ZENITH AM-FM CHASSIS 7F20, 7F20L

SET 635 FOLDER3-C

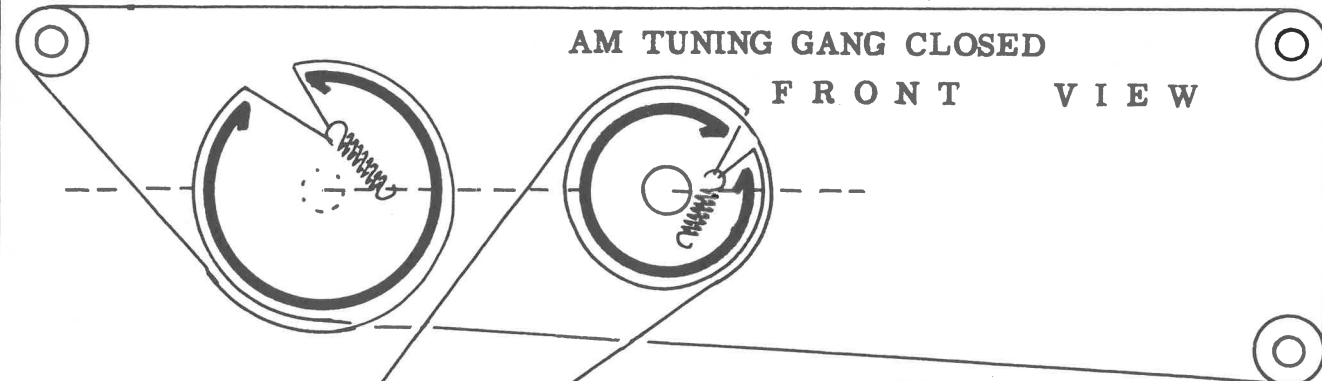
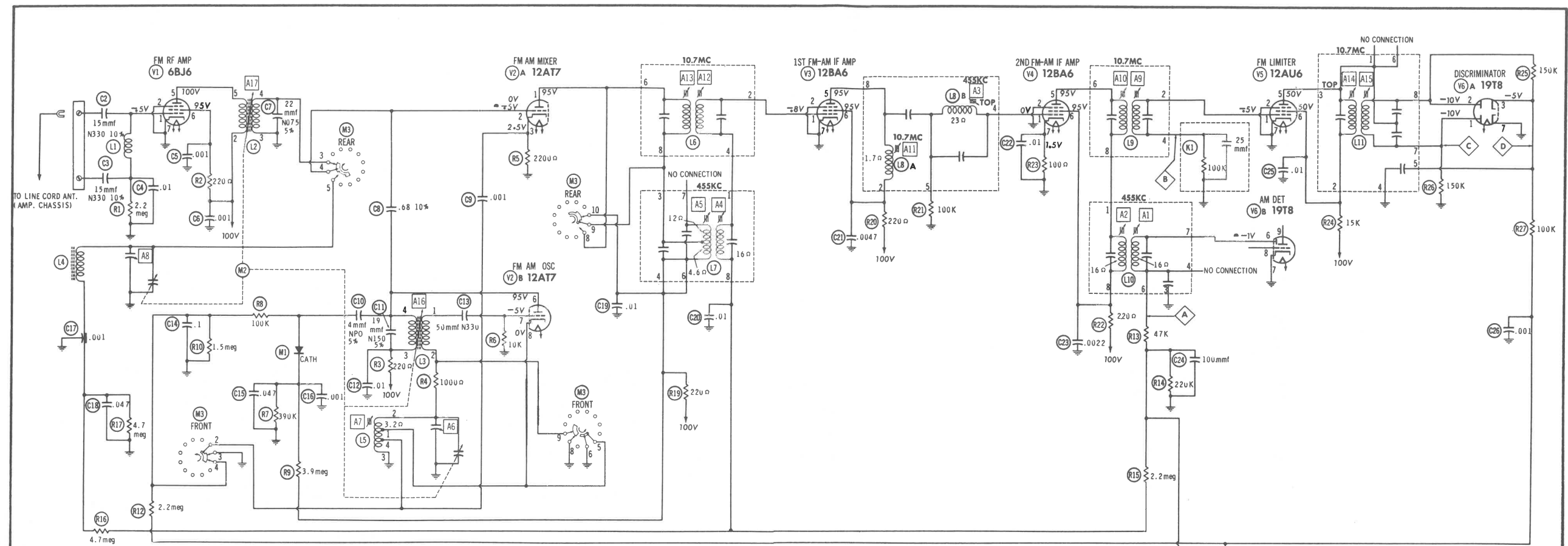


IMPORTANT FI

This PHOTOFACT Folder with the TV chassis covered FOLDER 3 . File this Fold the yellow filing jacket pro



CHASSIS

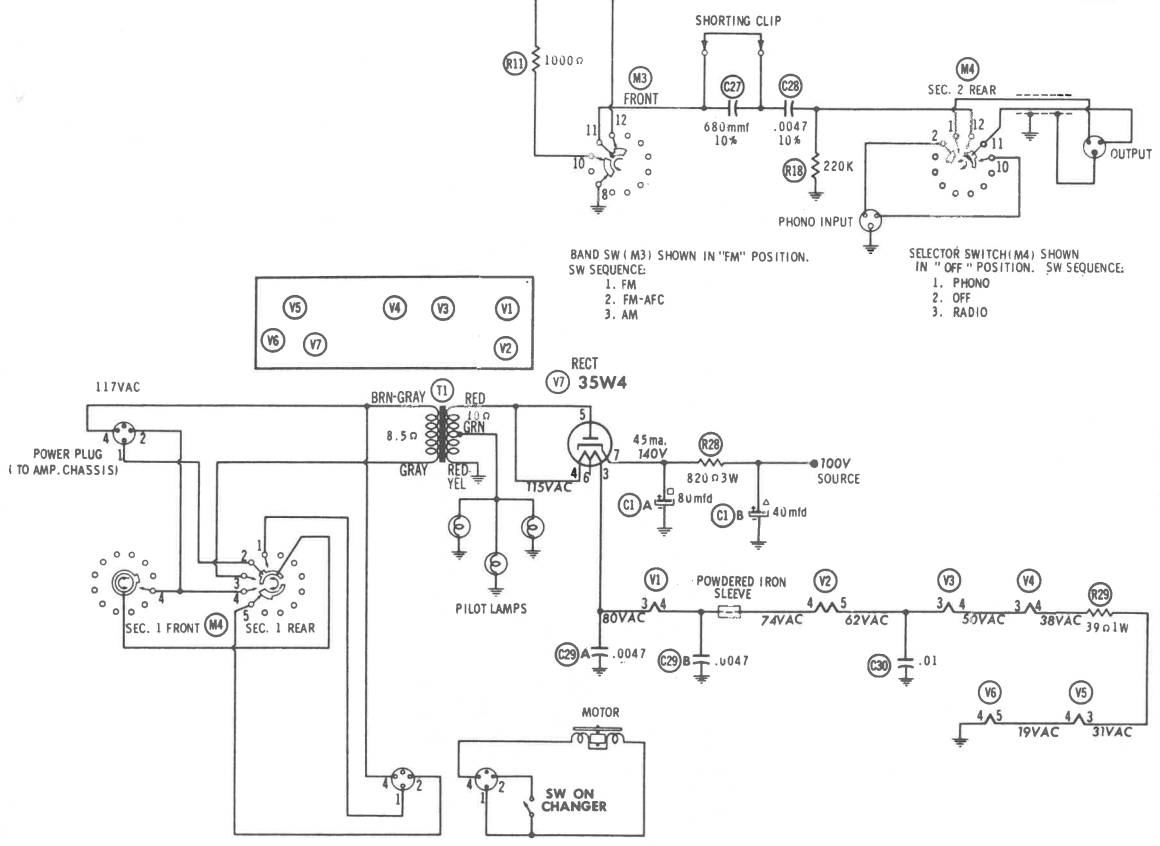


2 1/2 TURNS
TUNING
SHAFT

RESISTANCE READINGS									
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	6BJ6	2.2meg	0Ω	40Ω	45Ω	†1820Ω	†1000Ω	0Ω	Pin 9
V2	12A17	†1000Ω	.1Ω	2200Ω	45Ω	50Ω	†1000Ω	10K	0Ω
V3	12BA6	2.2meg	0Ω	50Ω	40Ω	†1000Ω	†1000Ω	0Ω	NC
V4	12BA6	100K	0Ω	40Ω	35Ω	†1000Ω	†1000Ω	100Ω	
V5	12AU6	100K	0Ω	20Ω	14Ω	†16K	†16K	0Ω	
V6	19T8	150K	150K	300K	0Ω	14Ω	270K	0Ω	NC
V7	35W4	TP	NC	40Ω	10Ω	10Ω	NC	1 INF	

1. THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
† MEASURED IN "AM" POSITION.
MEASURED FROM PIN 7 OF V7.
2. DC voltage measurements taken with vacuum tube voltmeter.
AC voltages measured with 1000 ohm per volt voltmeter.
3. Socket connections are shown as bottom views.
4. Measured values are from socket pin to common ground.
5. Line voltage maintained at 117 volts for voltage readings.
6. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
7. No signal applied for voltage measurements.
- NC NO CONNECTION
TP TIE POINT

A PHOTOFAC STANDARD NOTATION SCHEMATIC
©Howard W. Sams & Co., Inc. 1963



ZENITH AM-FM
CHASSIS 7F20, 7F20L

ALIGNM

ALIGNMENT INSTRUCTION
Use only enough generator output to provide a u
Suggested Alignment Tools:
A1 thru A5, A7, A9 thru A15... GENER
WALSC
GENER
WALSC

AM ALIGNMENT — SELECTOR IN AM POSITIO

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RAI DI/ SETT
1.	High side thru .05mfd to pin 2 (grid) of AM Mixer. Low side to chassis.	455KC (400v 30% AM)	(AM Tuning fully op
2.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1600KC	1600K
3.	"	600KC	600KC
4.	"	1400KC	1400KC

FM IF ALIGNMENT USING AM SIGNAL GENER

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RAI DI/ SETT
5.	High side thru .05mfd to pin 2 (grid) of FM Mixer. Low side to chassis.	10.7MC (Unmod.)	(FM Point o interfe
6.	"	"	"
7.	"	"	"

FM IF ALIGNMENT USING FM SIGNAL GENER

Use frequency modulated signal with 60v modul: deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RAI DI/ SETT
5.	High side thru .05mfd to pin2 (grid) of FM Mixer. Low side to chassis.	10.7MC (450KC Swp)	(FM Point o interfe
6.	"	"	"
7.	"	"	"

FM RF ALIGNMENT — SELECTOR IN FM POSI

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RAI DI/ SETT
8.	Across FM antenna terminals with 120Ω in each lead.	98MC (Unmod.)	(FM 98M

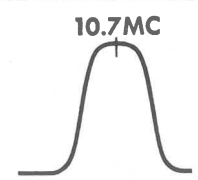
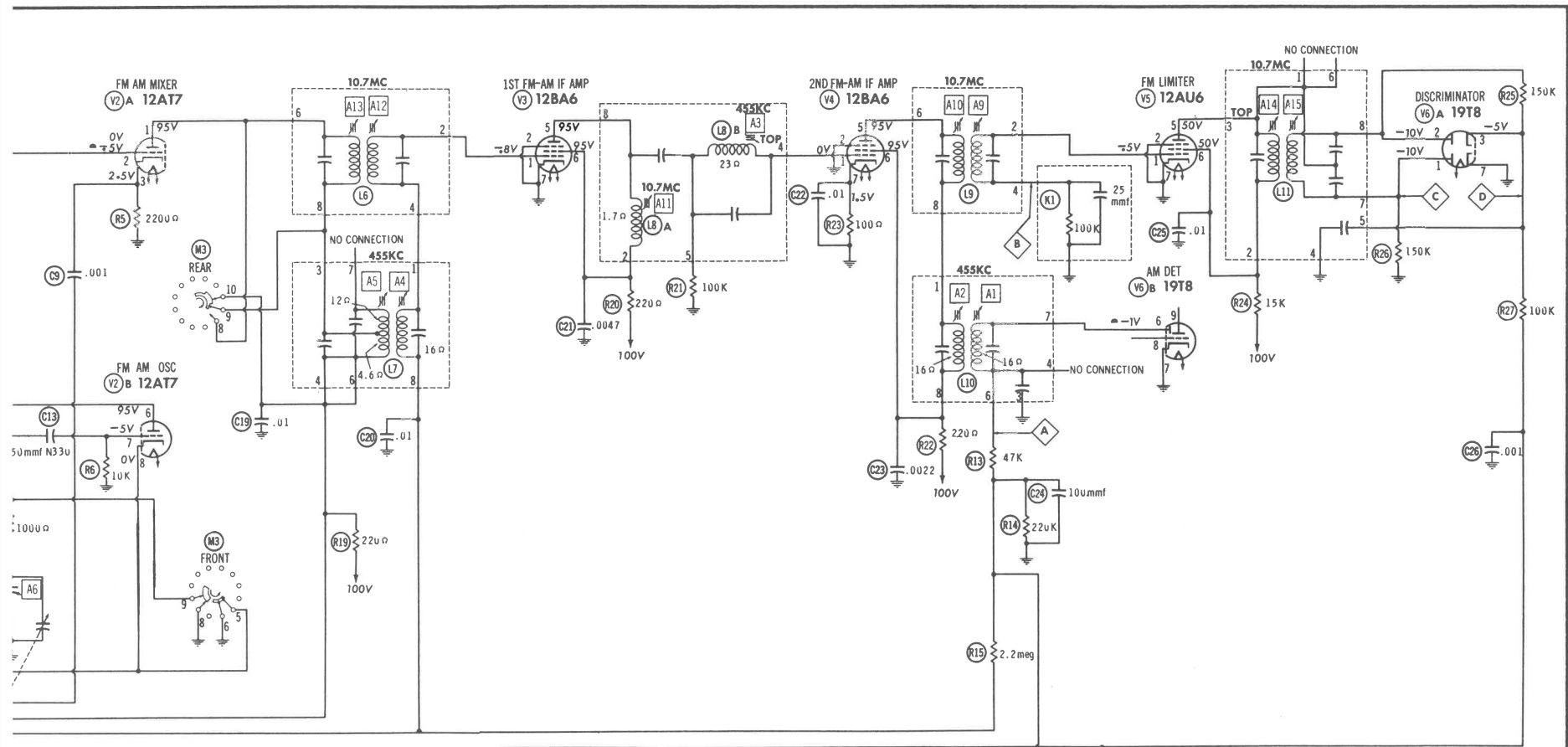


FIG. 1

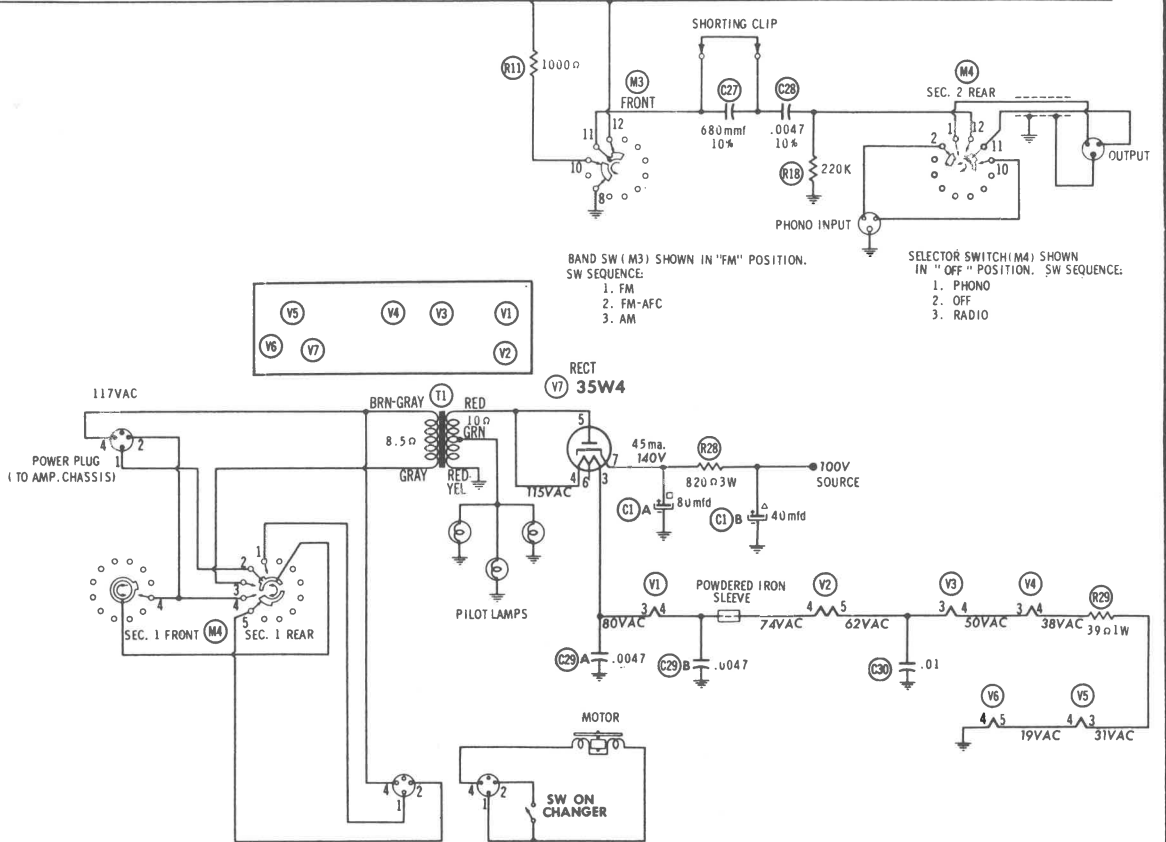


ALIGNING GANG CLOSED **FRONT VIEW**



TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
12AT7	2.2meg	0Ω	40Ω	45Ω	1820Ω	1000Ω	0Ω		
12BA6	100K	0Ω	40Ω	35Ω	1000Ω	1000Ω	100Ω		
12AU6	100K	0Ω	20Ω	14Ω	16K	16K	0Ω		
19T8	150K	150K	300K	0Ω	14Ω	270K	0Ω	NC	NC
35W4	TP	NC	40Ω	10Ω	10Ω	NC	1 INF		

1. RESISTANCE READINGS
 2. MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 3. MEASUREMENTS TAKEN IN "AM" POSITION.
 4. MEASUREMENTS TAKEN FROM PIN 7 OF V7.
 5. MEASUREMENTS TAKEN WITH VACUUM TUBE VOLTMETER.
 6. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 7. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 8. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 9. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 10. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 11. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 12. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 13. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 14. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 15. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 16. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 17. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 18. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 19. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 20. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 21. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 22. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 23. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 24. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 25. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 26. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 27. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 28. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 29. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 30. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 31. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 32. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 33. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 34. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 35. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 36. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 37. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 38. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 39. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 40. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 41. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 42. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 43. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 44. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 45. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 46. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 47. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 48. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 49. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 50. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 51. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 52. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 53. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 54. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 55. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 56. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 57. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 58. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 59. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 60. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 61. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 62. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 63. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 64. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 65. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 66. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 67. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 68. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 69. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 70. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 71. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 72. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 73. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 74. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 75. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 76. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 77. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 78. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 79. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 80. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 81. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 82. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 83. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 84. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 85. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 86. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 87. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 88. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 89. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 90. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 91. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 92. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 93. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 94. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 95. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 96. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 97. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 98. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 99. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.
 100. MEASUREMENTS TAKEN WITH 1000 OHM PER VOLT VOLTMETER.



ZENITH AM-FM
CHASSIS 7F20, 7F20L

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication. Set volume control at maximum position.

Suggested Alignment Tools:

A1 thru A5, A7, A9 thru A15...GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440

WALSCO #2526, 2543, 2544, 2545

A6, A8.....GENERAL CEMENT #5004, 5008, 5009

WALSCO #2520

AM ALIGNMENT — SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru .05mfd to pin 2 (grid) of AM Mixer. Low side to chassis.	455KC (400% 30% AM)	(AM) Tuning gang fully open.	DC probe to point A. Common to chassis.	A1, A2, A3, A4, A5	Adjust for maximum deflection.
2.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1600KC	1600KC	"	A6	"
3.	"	600KC	600KC	"	A7	"
4.	"	1400KC	1400KC Signal.	"	A8	Adjust for maximum deflection. Repeat Steps 2, 3 and 4.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM—SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5.	High side thru .05mfd to pin 2 (grid) of FM Mixer. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point B. Common to chassis.	A9, A10, A11, A12, A13	Adjust for maximum deflection.
6.	"	"	"	DC probe thru 1meg to point C. Common to chassis.	A14	"
7.	"	"	"	DC probe to point D. Common to chassis.	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

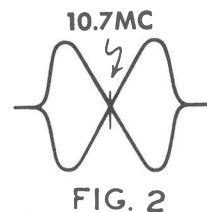
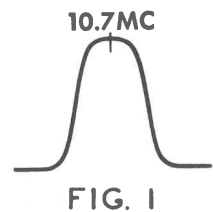
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE—SELECTOR IN FM POSITION

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
5.	High side thru .05mfd to pin 2 (grid) of FM Mixer. Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. to point B. Low side to chassis.	A9, A10, A11, A12, A13	Adjust for maximum gain and symmetry of response similar to Fig. 1. markers as shown.
6.	"	"	"	Vert. amp. thru 47K to point C. Low side to chassis.	A14	
7.	"	"	"	Vert. amp. to point D. Low side to chassis.	A15	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A14 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT — SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
8.	Across FM antenna terminals with 120Ω in each lead.	98MC (Unmod.)	(FM) 98MC	DC probe to point E. Common to chassis.	A16, A17	Adjust for maximum deflection.



PRE-ALIGNMENT INSTRUCTIONS

Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools:
A1 thru A9, A12 thru A19 GENERAL CEMENT #9282, 8606, 9302
A10, A11 GENERAL CEMENT #9290, 8866, 9087
A20, A21, A22, A23, A24, A25, A26 ... Require Special Zenith Tool

AM ALIGNMENT USING AM GENERATOR — SELECTOR IN AM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1mf to grid (pin 7) of AM Conv. Low side to chassis.	455 KC (Unmod.)	Tuning gang fully open	DC probe of VTVM to point A3, A4, Common to chassis	A1, A2, A3, A4, A5, A6	Adjust for maximum.
Fashion loop of several turns of wire and radiate signal into loop of receiver.	1620 KC	1620 KC	"	A7	"
"	600 KC	600 KC	"	A8, A9	"
"	1400 KC	1400 KC	"	A10, A11	"

FM IF ALIGNMENT USING AM GENERATOR AND VTVM — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side to ungrounded tube shield over V1. Low side to chassis.	10.7 MC (Unmod.)	(FM) Point of non-interference	DC probe of VTVM to point A12, A13, A14, A15, Common to chassis	A12, A13, A14, A15, A16, A17, A18	Disconnect stabilizing capacitor. Adjust for maximum deflection. Reconnect Capacitor.
"	"	"	DC probe to point A19. Common to chassis.	A19	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side to ungrounded tube shield over V1. Low side to chassis.	10.7 MC (450 KC Swp.)	(FM) Point of non-interference	Vert. Input of Scope to point A12, A13, A14, A15, Low side to chassis.	A12, A13, A14, A15, A16, A17, A18	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
"	"	"	Vert. Input to point A19. Low side to chassis.	A19	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A12 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
Across FM antenna terminals with 120Ω in each lead.	90 MC (Unmod.)	(FM) 90 MC	DC probe of VTVM to point A20, A21, Common to chassis	A20, A21, A22	Adjust for maximum.

ALIGNMENT INSTRUCTIONS

MULTIPLY ALIGNMENT USING FM STEREO GENERATOR AND AUDIO OSCILLATOR

SIGNAL GENERATOR	CONNECT SCOPE	ADJUST	REMARKS
19 KC to point A5. Low side to chassis.	Vert. Input to pin 2 of 19 KC Amp. Low side to chassis.	A23	Adjust for maximum deflection.
"	Vert. Input to pin 9 of 38 KC Amp. Low side to chassis.	A24	"
"	Vert. Input to point A25. Low side to chassis.	A25	"
87 KC to point A26. Low side to chassis.	Vert. Input to point A26. Low side to chassis.	A26	Adjust for MINIMUM deflection.

MULTIPLY ALIGNMENT USING AIR SIGNAL

SIGNAL GENERATOR	CONNECT SCOPE	ADJUST	REMARKS
Tune in strong FM Stereo signal.	Vert. Input to pin 2 of 19 KC Amp. Low side to chassis.	A23	Adjust for maximum deflection.
"	Vert. Input to pin 9 of 38 KC Amp. Low side to chassis.	A24	"
"	Vert. Input to point A25. Low side to chassis.	A25	"
"	None	A26	Adjust to eliminate whistle or interference.

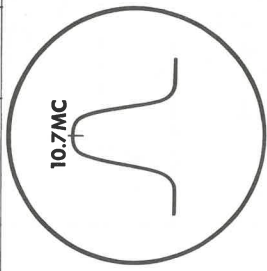


FIG. 1

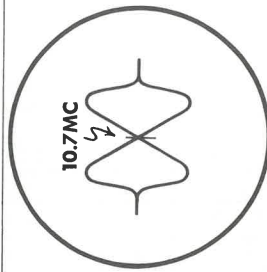


FIG. 2



MA030

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

DATE 5-63

SET 635 FOLDER 3-D

ZENITH AM-FM
CHASSIS 9H20LZ1

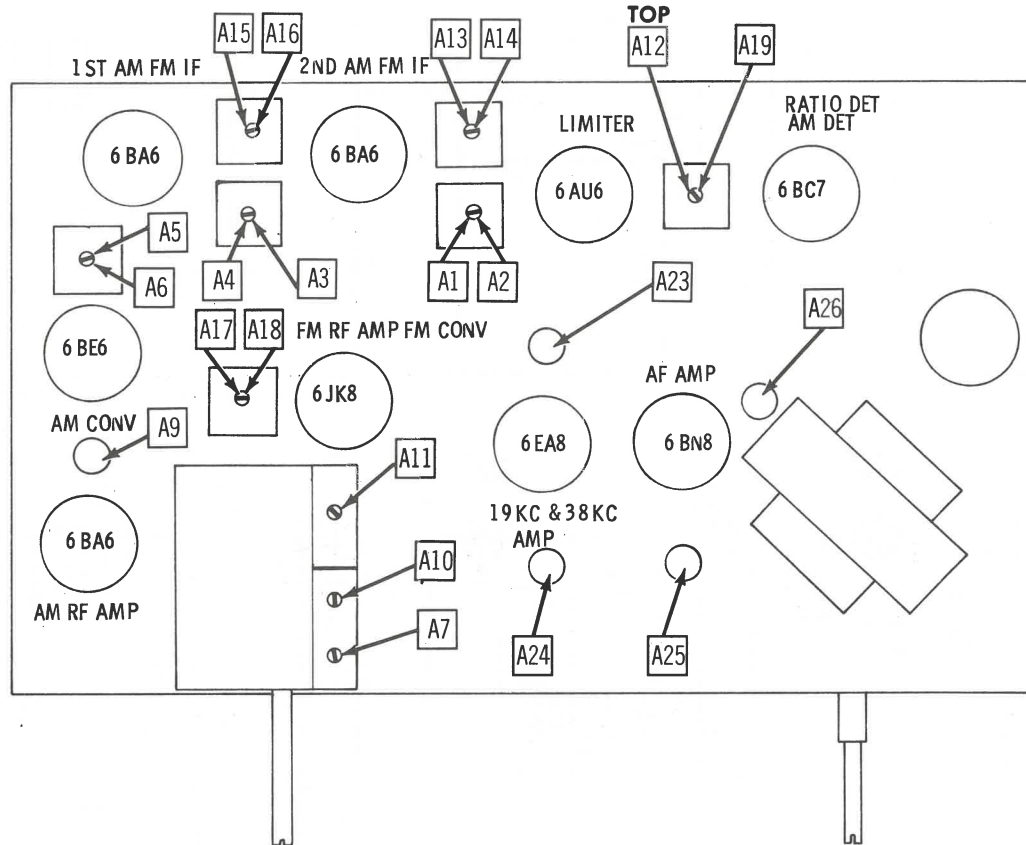
SET 635 FOLDER 3-D

PHOTOFACT® Folder



IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3 . File this Folder with the TV Folder in the yellow filing jacket provided.

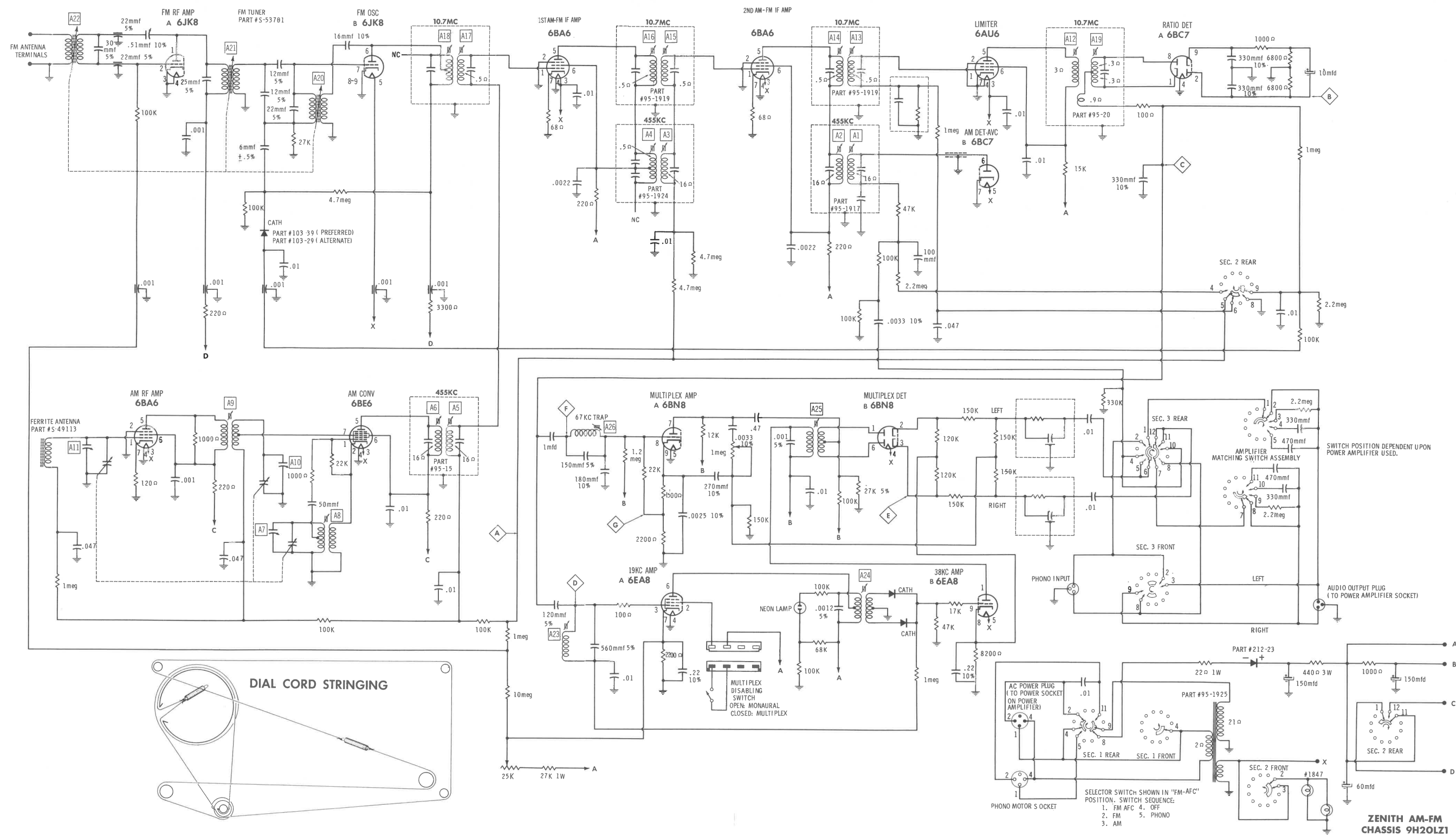


TRADE NAME Zenith
MANUFACTURER Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Illinois
TUBES Nine
POWER SUPPLY Obtained from Amplifier

ZENITH AM-FM
CHASSIS 9H20LZ1

SET 635 FOLDER 3-D

Printed in U.S. of America

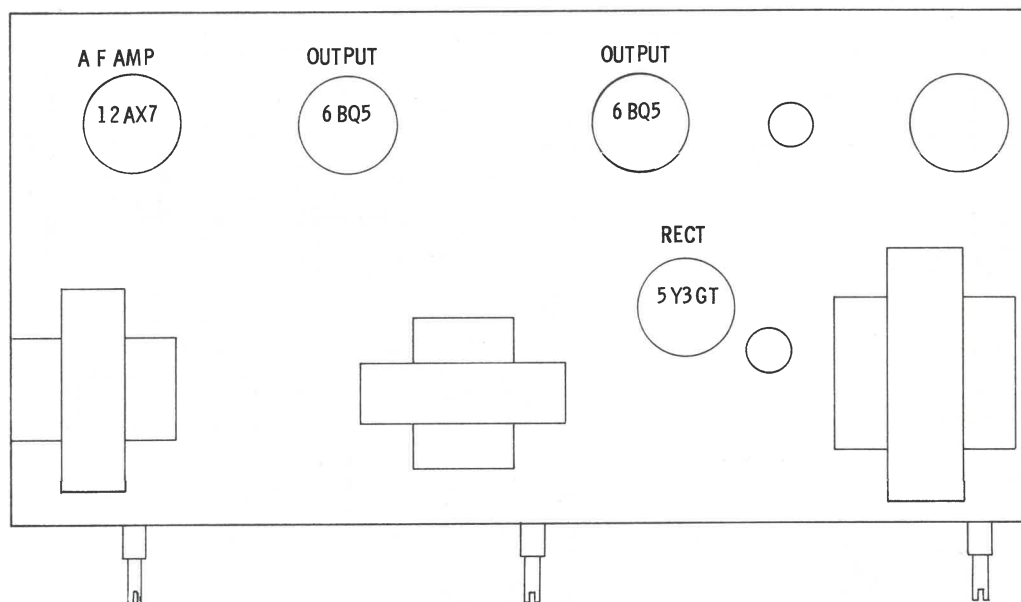


PHOTOFACT® Folder

ZENITH AMP. CHASSIS
4K21, 4K22

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.

ZENITH AMP. CHASSIS
4K21, 4K22ZENITH AMP. CHASSIS
4K21, 4K22

TRADE NAME	Zenith
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Illinois
TUBES	Four
POWER SUPPLY	110-120 Volts AC, 60 Cycle

RATING 60 Watts

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

MA030

part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

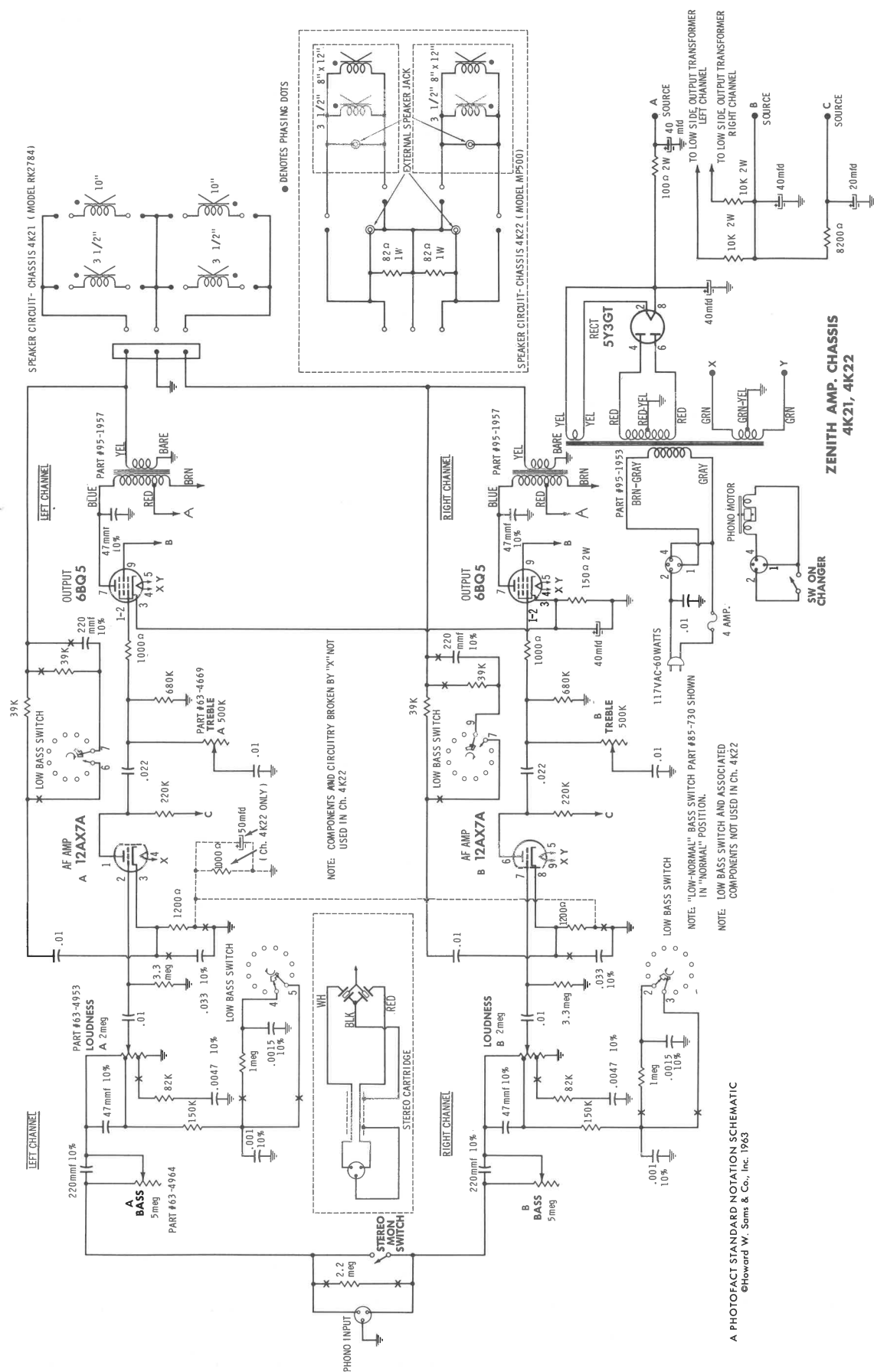
Printed in U.S. of America

DATE 5-63

SET 635 FOLDER 3-E

SET 635 FOLDER 3-E





SYLVANIA ♦	
TYPE	
6V6GT 6V6GT 6V6GT 6V6GT 5U4GB	

RAMID RT No.	SPRAGUE PART No.
1-4565	TVL-4739, 6
10-25	TVA-1204

ALLORY RT No.	SPRAGUE PART No.
0	10TCU-T39
17	5HK-S10
68	5HK-D47
1-16247	10TS-T68
10	6TM-D47
1-1611	10TS-T10
10	4PS-S10
17	10TS-D10
22	5HK-D47
0	10TS-D22
10	5HK-S10
1-601	10TS-T10
1-201	6TM-P10
0	2TM-P10
47	10TCU-T39
68	5HK-S10
1-16247	5HK-D47
10	10TS-T68
1-1611	6TM-D47
10	10TS-T10
47	4PS-S10
22	10TS-D1
0	5HK-D47
10	10TS-D22
1-601	5HK-S10
1-201	10TS-T10
611	6PS-P10
	2TM-P10
	6TM-S10

C No.	MALORY PART No.
	† UE4337
	† UE2501-S
	FA16A, RU16A, CS3500

h compressed end

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R4	4.7meg				R28	100K			
R5	39K				R29	82K			
R6	100K				R30	560Ω			
R7	100K				R31	2.7meg			
R8	82K				R32	470K			
R9	2.7meg				R33	2.2meg			
R10	470K				R34	56K			
R11	2.2meg				R35	68K			
R12	68K				R36	33K			
R13	56K				R37	1.5meg			
R14	33K				R38	2.2meg			
R15	2.2meg				R39	220K			
R16	220K				R40	2200Ω			
R17	2200Ω				R41	2.2meg			
R18	2.2meg				R42	22K			
R19	22K				R43	1200Ω 5%			
R20	1200Ω				R44	22K			
R21	22K				R45	120K			
R22	120K				R46	120K		4G-130	#63-4828
R23	120K				R47	130Ω 4W			
R24	22K				R48	22K		4G-2500	#63-4834
R25	4.7meg				R49	2500Ω 4W			
R26	39K				R50	4700Ω 2W			
R27	100K								

Zenith Part Number

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 1A	620VCT @ .22A	5VAC @ 3.2A	95-1893					
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC @ 2.9A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	ZENITH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	5000Ω CT	3-4Ω	95-1892	A-2935	A-3830	22847 ①	S-69Z	① Drill new mounting holes.
T3	5000Ω CT	3-4Ω	95-1892	A-2935	A-3830	22847 ①	S-69Z	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			ZENITH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	4Amp. 250V	136-31		312004 (3AG 4A 250V)	342012	MTH4	HKP

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
8524 (Stranded) Available in 12 Colors
Power Cord Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

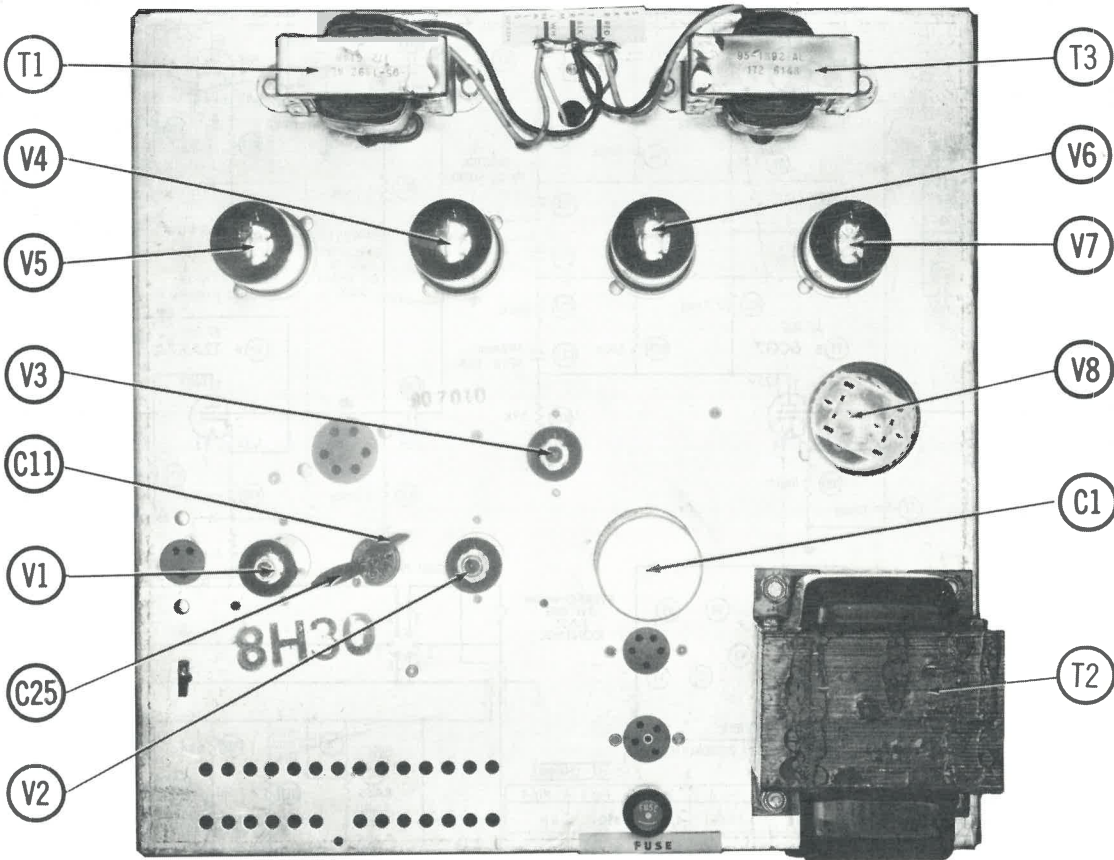
PHOTOFACT® Folder



IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 635 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.

ZENITH AMP.
CHASSIS 8H30, 8H30Z



ZENITH AMP.
CHASSIS 8H30, 8H30Z

CHASSIS—8H30 TOP VIEW

TRADE NAME	Zenith
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Illinois
TYPE SET	Stereo Amp.
TUBES	Eight
POWER SUPPLY	110 - 120 Volts AC, 60 Cycle
RATING	110 Watts, 1 Amp. @117 Volts AC

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. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

Printed in U.S. of America

DATE 5-63

SET 635 FOLDER 3-F

PARTS LIST AND DESCRIPTIONS

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			RAYTHEON			SYLVANIA		
ITEM No.	USE		TYPE			ITEM No.	USE		TYPE			TYPE		
V1	Left Channel AF Amp. -		6CG7			V4	Left Chan. Audio Output		6V6GT			6V6GT		
V2	Right Channel AF Amp. -		12AX7A			V5	Left Chan. Audio Output		6V6GT			6V6GT		
	Left Channel AF Amp. -					V6	Right Chan. Audio Output		6V6GT			6V6GT		
V3	Right Channel AF Amp. -		12AU7A			V7	Right Chan. Audio Output		6V6GT			6V6GT		
	Left Chan. Phase Inverter -					V8	Rectifier		5U4GB			5U4GB		
	Right Chan. Phase Inverter													

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	ZENITH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	40	450	22-3536	AFH4-79-40		XC4-82		TMQ-4565
B	80	450						TVL-4739.6
C	40	450						
D	40	25						
C2	10	25	22-3076	PRS1250	BBR10-25	QTL-5	TC22	TD-10-25
								TVA-1204

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.
C3	390 N750 10%		N750-DI 390	TCN-390	BYA10S1	CCD-103	B-110	10TCU-T39
C4	.01		BPD-01	DD-103	BYA10D47M	CCD-472	B-247	5HK-S10
C5	.0047		BPD-0047	DD-472		CCD-681	GP368	5HK-D47
C6	680	10%	DI-680	D6-681	PM6D47	6DP-1-472	GEM-16247	10TS-T68
C7	.0047 200V 10%		BE6D47		LIOT1	CCD-101	GP310	6TM-D47
C8	100	10%	DI-100	D6-101	PM4S1	4DP-1-103	GEM-1611	10TS-T10
C9	.01 200V 10%		BE2S1		PM6D1	CCD-102	GP210	4PS-S10
C10	.001	10%	DI-1000	DD-102	BYA10D47M	CCD-472	B-247	10TS-D10
C11	.0047		BPD-0047	DD-472	PM6D22	CCD-222	GP222	5HK-D47
C12	.0022	10%	DI-2200		BYA10S1	CCD-103	B-110	10TS-S10
C13	.01		BPD-01	DD-103	LIOT1	CCD-101	GP310	10TS-P10
C14	100	10%	DI-100	D6-101	CUB6P1	6DP-4-104	GEM-601	6TM-P10
C15	.1 600V		P688N-1	DF-104	PM2P1	2DP-3-104	GEM-201	2TM-P10
C16	.1 200V		BE2P1	DF-104				10TCU-T39
C17	390 N750 10%		N750-DI 390	TCN-390	BYA10S1	CCD-103	B-110	5HK-S10
C18	.01		BPD-01	DD-103	BYA10D47M	CCD-472	B-247	5HK-D47
C19	.0047		BPD-0047	DD-472		CCD-681	GP368	10TS-T68
C20	680	10%	DI-680	D6-681	PM6D47	6DP-1-472	GEM-16247	6TM-D47
C21	.0047 200V 10%		BE6D47		LIOT1	CCD-101	GP310	10TS-T10
C22	100	10%	DI-100	D6-101	PM4S1	4DP-1-103	GEM-1611	4PS-S10
C23	.01 200V 10%		BE2S1		PM6D1	CCD-102	GP210	10TS-D1
C24	.001	10%	DI-1000	DD-102	BYA10D47M	CCD-472	B-247	5HK-D47
C25	.0047		BPD-0047	DD-472	PM6D22	CCD-222	GP222	10TS-D22
C26	.0022	10%	DI-2200		BYA10S1	CCD-103	B-110	5HK-S10
C27	.01		BPD-01	DD-103	LIOT1	CCD-101	GP310	10TS-T10
C28	100	10%	DI-100	D6-101	CUB6P1	6DP-4-104	GEM-601	6PS-P10
C29	.1 600V		P688N-1	DF-104	PM2P1	2DP-3-104	GEM-201	2TM-P10
C30	.1 200V		BE2P1	DF-104	PM6S1	6DP-2-103	GEM-611	6TM-S10
C31	.01 600V		BE6S1	D6-103				

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			ZENITH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Loudness, Left Channel	2meg, 500K & 1meg Taps	63-4447				† UE4337
B	Loudness, Right Channel	2meg, 500K & 1meg Taps					
R2A	Bass, Left Channel	5meg	63-4829				† UE2501-S
B	Bass, Right Channel, Stereo-Monaural Sw.	5meg					
R3A	Treble	1meg	63-4830	B-70, SR-70, or (F2-1meg, R2-1meg, TU304)	AD47-1meg-Z, FS-3		FA16A, RUI6A, CS3500
B	Treble	1meg					

† Squeeze the control end of the outer shaft until the tines touch each other; force inner shaft through compressed end of outer shaft, and proceed in normal manner.
*STA-LOC" Equivalent: FA26DT16, OS1187, RU26DT16, IS1812.
† Cut shaft to 1 3/4" from mounting surface.

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R4	4.7meg				R28	100K			
R5	39K				R29	82K			
R6	100K				R30	560Ω			
R7	100K				R31	2.7meg			
R8	82K				R32	470K			
R9	2.7meg				R33	2.2meg			
R10	470K				R34	56K			
R11	2.2meg				R35	68K			
R12	68K				R36	33K			
R13	56K				R37	1.5meg			
R14	33K				R38	2.2meg			
R15	2.2meg				R39	220K			
R16	220K				R40	2200Ω			
R17	2200Ω				R41	2.2meg			
R18	2.2meg				R42	22K			
R19	22K				R43	1200Ω 5%			
R20	1200Ω				R44	22K			
R21	22K				R45	120K			
R22	120K				R46	120K			
R23	120K				R47	130Ω 4W	4G-130		#63-4828
R24	22K				R48	22K			
R25	4.7meg				R49	2500Ω 4W	4G-2500		#63-4834
R26	39K				R50	4700Ω 2W			
R27	100K								

Zenith Part Number

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 1A	620VCT @ .22A	5VAC @ 3.2A	95-1893					
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC @ 2.9A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	ZENITH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	5000Ω CT	3-4Ω	95-1892	A-2935	A-3830	22847 ①	S-69Z	① Drill new mounting holes.
T3	5000Ω CT	3-4Ω	95-1892	A-2935	A-3830	22847 ①	S-69Z	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			ZENITH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	4Amp. 250V	136-31		312004 (3AG 4A 250V)	342012	MTH4	HKP

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
8524 (Stranded) Available in 12 Colors
Power Cord Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

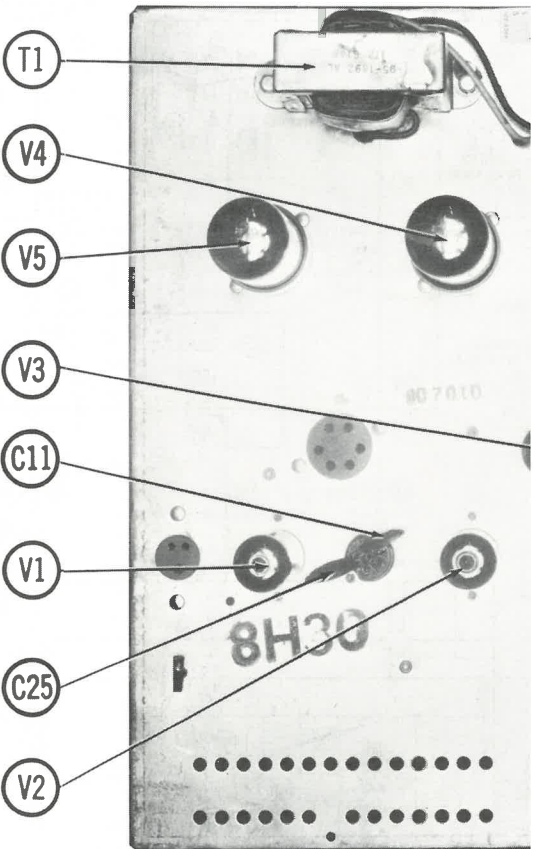
SET 635 FOLDER 3-F

PHOTOFACT® Folder

IMPORTANT FILE

This PHOTOFACT Folder with the TV chassis covered FOLDER 3 . File this Folder the yellow filing jacket provided

ZENITH AMP. CHASSIS 8H30, 8H30Z

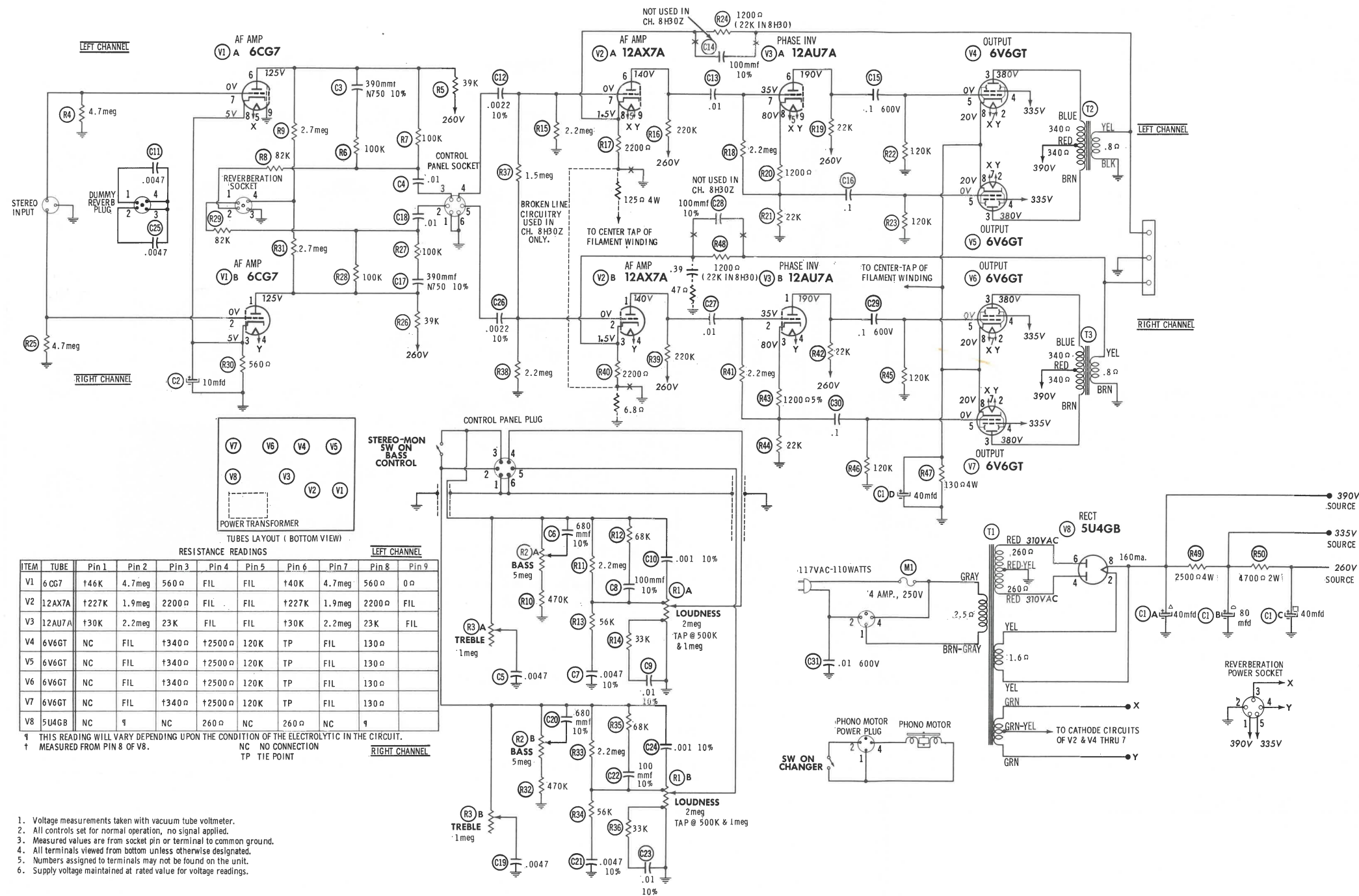


CHASSIS—8H

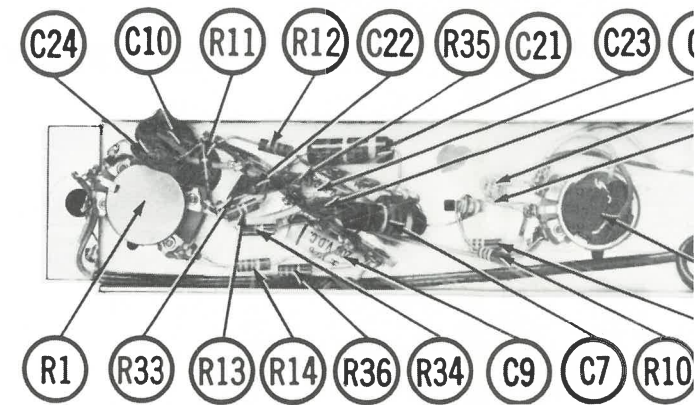
TRADE NAME	Zenith
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave.,
TYPE SET	Stereo Amp.
TUBES	Eight
POWER SUPPLY	110 — 120 Volts AC, 60 Cycle

HOWARD W. SAMS & CO

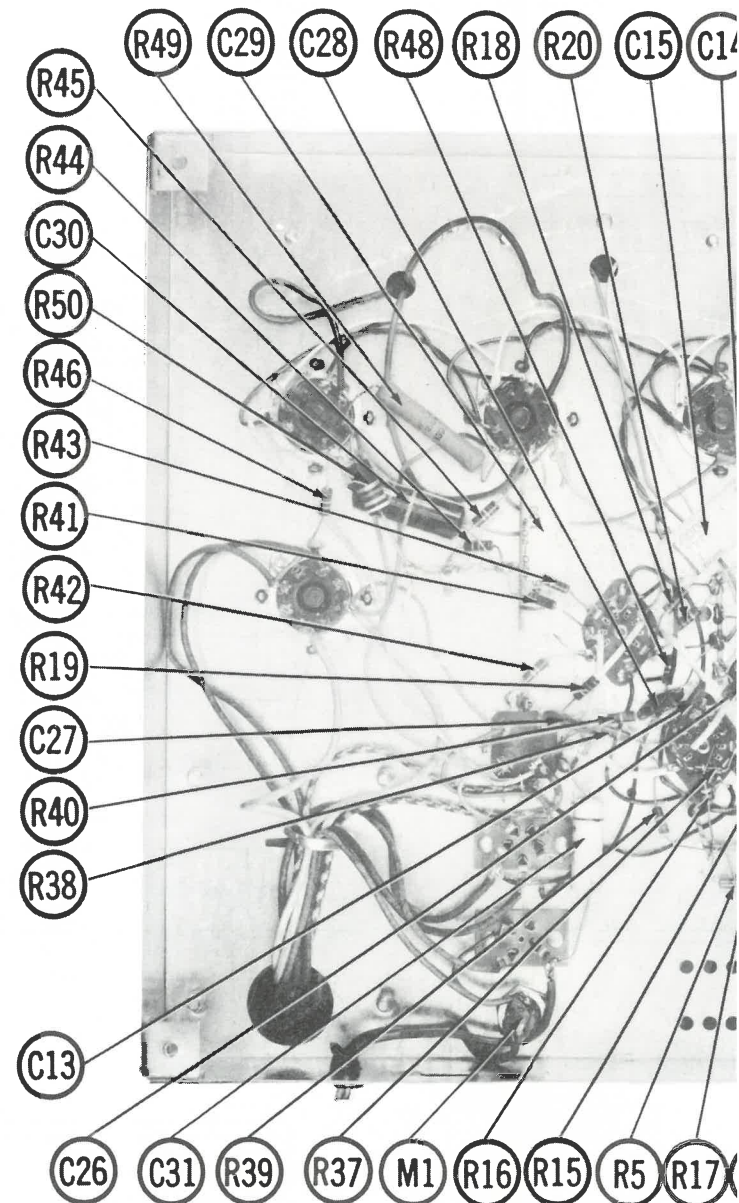
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement
MA030



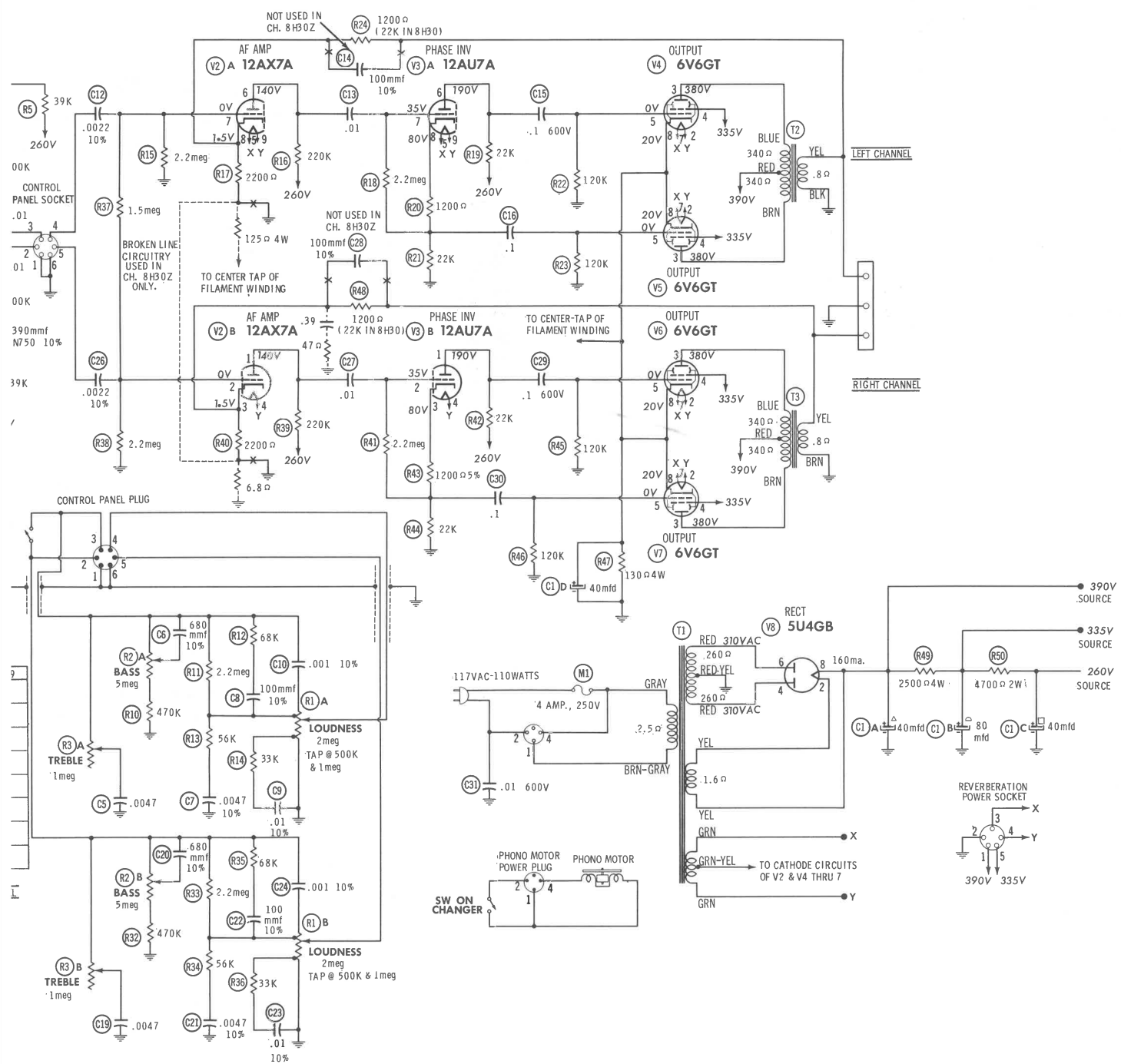
1. Voltage measurements taken with vacuum tube voltmeter.
2. All controls set for normal operation, no signal applied.
3. Measured values are from socket pin or terminal to common ground.
4. All terminals viewed from bottom unless otherwise designated.
5. Numbers assigned to terminals may not be found on the unit.
6. Supply voltage maintained at rated value for voltage readings.



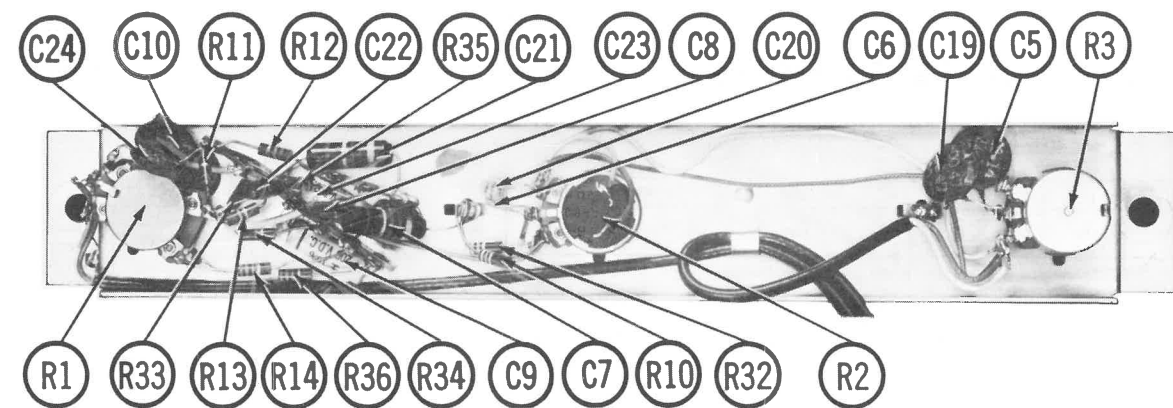
CHASSIS 8H30 -



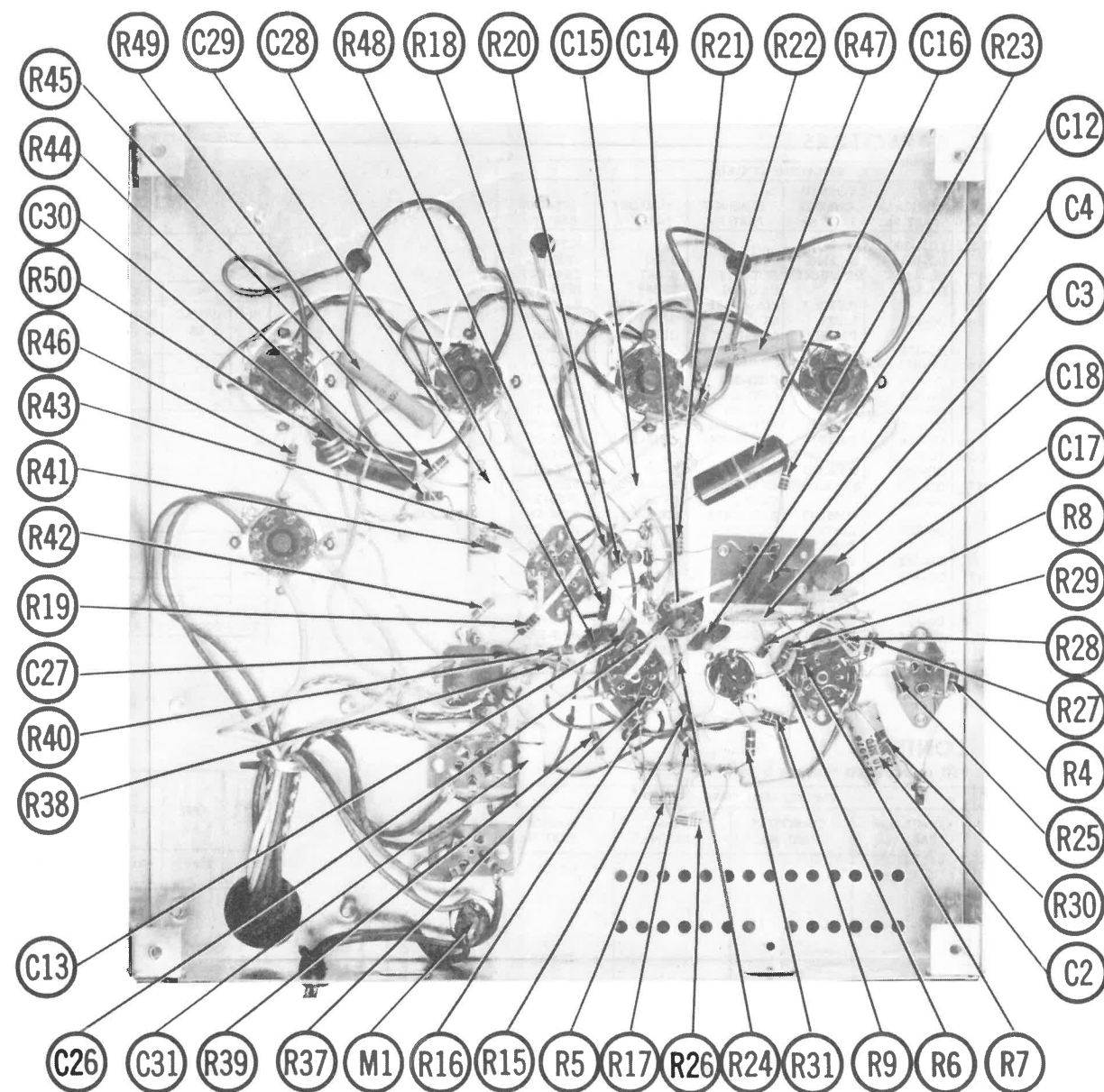
CHASSIS 8H30 - E



ZENITH AMP.
CHASSIS 8H30, 8H30Z



CHASSIS 8H30 - CONTROL PANEL



CHASSIS 8H30 - BOTTOM VIEW