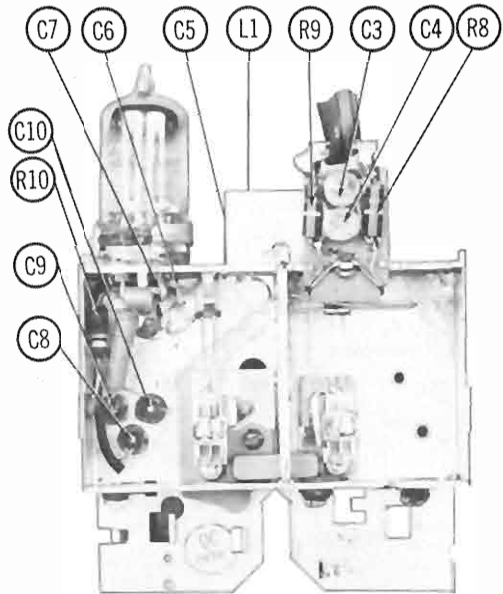


CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

1. Connect a clip lead across the horizontal waveform coil (L24).
2. Turn picture stabilizer control (R7) fully clockwise and tune to a known station.
3. Set the horizontal hold control fully clockwise.
4. Starting with the horizontal frequency slug (B1) fully counter clockwise, rotate clockwise until the picture just locks into sync. Then turn one-half turn more.
5. Remove the clip lead from L24 and starting with the horizontal waveform slug (B2) fully counter clockwise; then turn B2 clockwise until the picture almost locks into sync (3-4 diagonal bars).
6. Turn the horizontal hold control counter clockwise until the picture locks in and then back to full clockwise. If the picture falls out of sync, adjust B1 SLIGHTLY.
7. Check for horizontal hold while switching channels. If good hold action is not obtained at full clockwise position of the horizontal hold control, turn B1 in SLIGHTLY until desired results are obtained. If excessive squedging (Christmas Tree effect) is experienced while switching channels, readjust B2 SLIGHTLY. Check to make sure no horizontal bending is introduced at the top of the picture.



TUNER REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 9 push-on type knobs from the side and 1 from the top.
2. Remove 3 metal screws from the rear cover and remove the rear cover.
3. Remove the speaker leads, picture tube socket, ion trap, yoke clamp and HV lead.
4. Remove 1 metal screw from the top, by the radio tuning shaft.
5. Remove 2 hex nuts and the speaker.
6. Remove 1 metal screw from the top chassis brace.
7. Remove 4 chassis bolts from the bottom.
8. Remove the chassis and yoke.

CAUTION NOTE

ONE SIDE OF AC LINE CONNECTED TO CHASSIS
Care should be exercised when connecting test equipment or physically contacting the chassis.



MODEL 1259 (Ch. 120348R)

TRADE NAME	Emerson	MODELS	CHASSIS
		1254, 1264	120341H
		1255, 1265	120342R
		1258, 1268	120347H
		1259, 1269	120348R
		2064	120358H
		2065	120359R
MANUFACTURER	Emerson Radio & Phonograph Corp., 14th. & Coles Sts., Jersey City 2, N.J.		
TYPE SET	Combination Radio, Phono, TV Receiver		
TUBES	Eighteen		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATINGS	TV 110 Watts, 1.1 Amp. @ 117 Volts AC Radio 100 Watts, .9 Amp. @ 117 Volts AC Phono 90 Watts, .8 Amp. @ 117 Volts AC
TUNING RANGE	TV Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier) Radio 540KC-1638KC, IF 455KC		

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustment of the VHF oscillator is possible by removing the channel selector and fine tuning knobs. Set the fine tuning at the center of its range. The adjustments are accessible, one at a time, as the channel selector is rotated. Adjust for best picture and sound.

PICTURE TUBE SAFETY GLASS CLEANING

Remove 2 metal screws from the bottom of the front. Pull the bottom of the front out and up to remove.

SPECIAL ADJUSTMENTS

- A. Focus
Adjust the ion trap for the best focus consistent with maximum brightness.
- B. Width
The width may be varied by means of a metallic sleeve located between the yoke and the picture tube neck. Adjust sleeve in or out of the yoke for a picture SLIGHTLY larger than necessary to fill the screen.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENTS

For adjustment of the horizontal oscillator, it is necessary to remove the rear cover and supply power to set. Set the horizontal hold at the center of its range and adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally. (For location, see tube placement chart).

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate sound IF detector buzz, adjust the discriminator secondary (A8) located on top of chassis.

FUSES

One fuse is used for LV power supply protection. (For location, see tube placement chart).

CENTERING

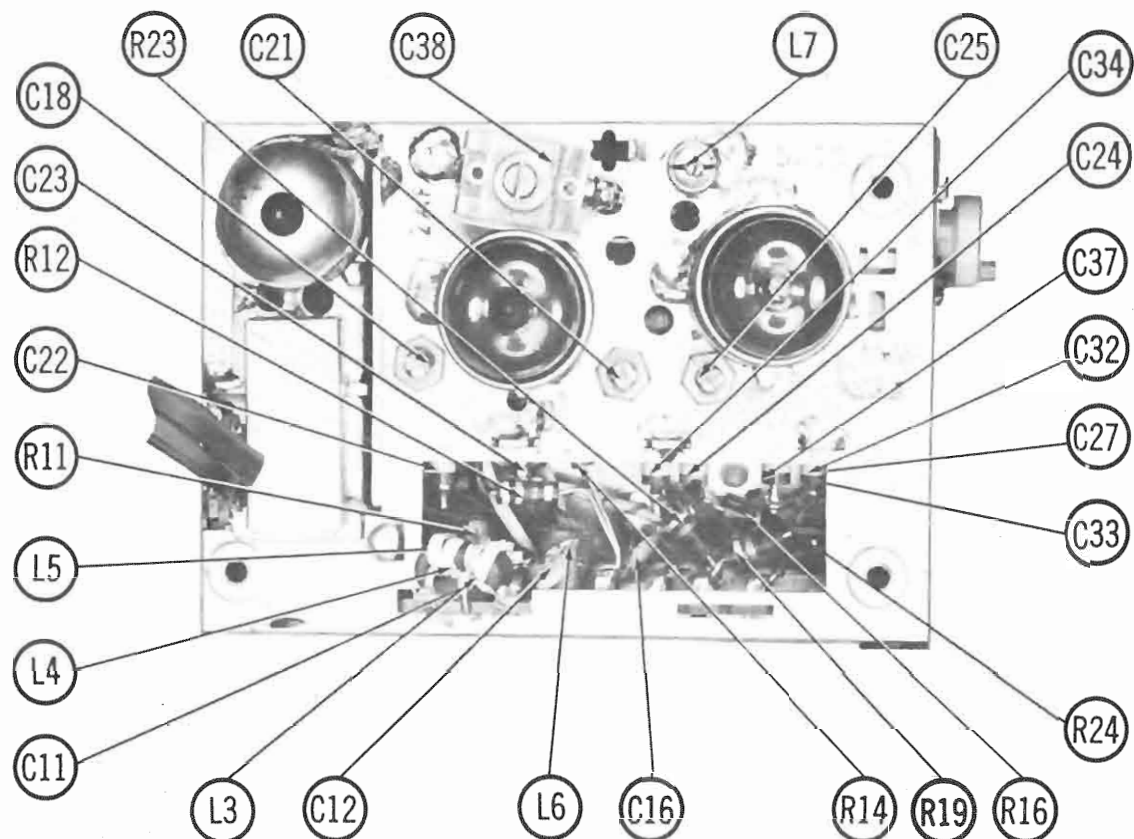
Centering is accomplished mechanically by adjusting two magnetic rings around the neck of the picture tube. Rotate the two rings around the neck of the tube until the picture is properly centered.

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

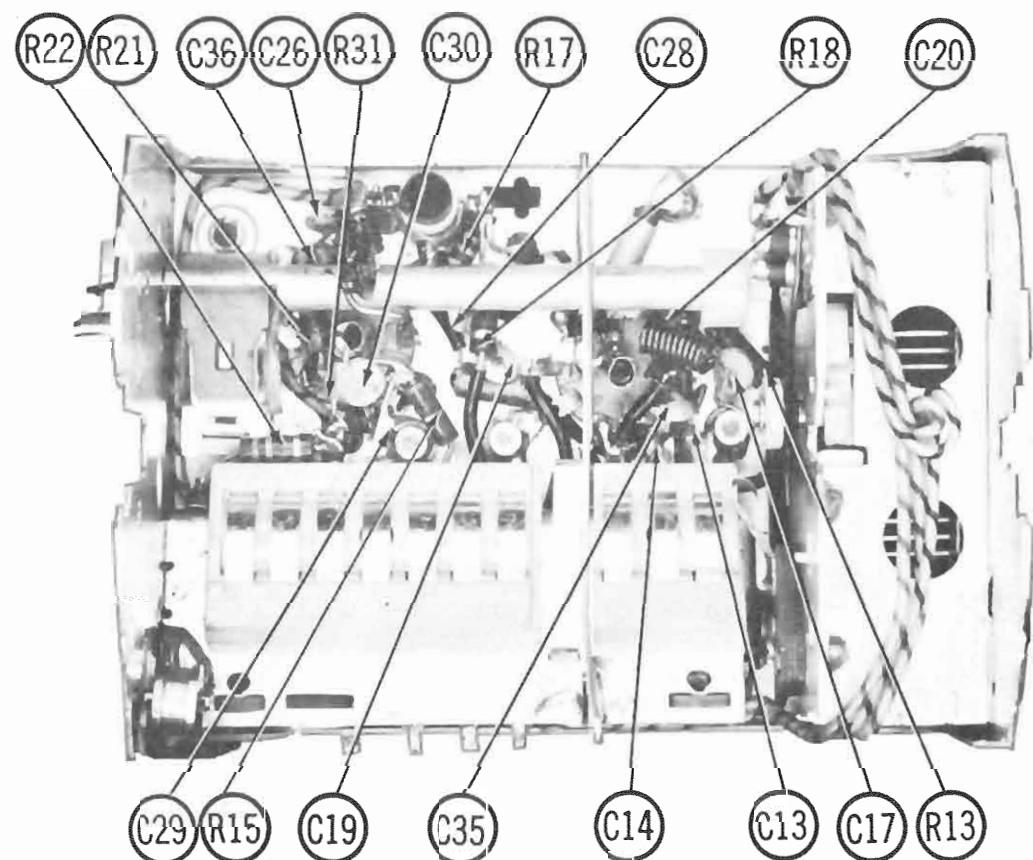
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of H289

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. © 1958 Howard W. Sams & Co., Inc., Indianapolis 5, Indiana. Printed in U.S. of America

EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065 (Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)

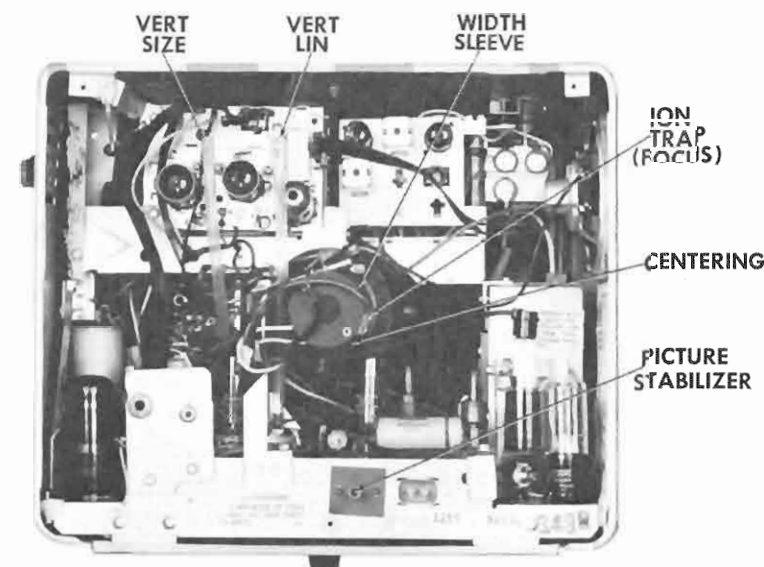


TUNER-TOP VIEW



TUNER-BOTTOM VIEW

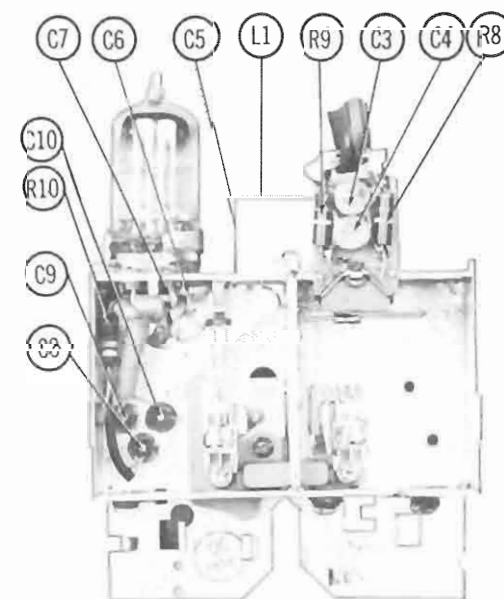
FOLDER 1



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

1. Connect a clip lead across the horizontal waveform coil (L24).
2. Turn picture stabilizer control (R7) fully clockwise and tune to a known station.
3. Set the horizontal hold control fully clockwise.
4. Starting with the horizontal frequency slug (B1) fully counter clockwise, rotate clockwise until the picture just locks into sync. Then turn one-half turn more.
5. Remove the clip lead from L24 and starting with the horizontal waveform slug (B2) fully counter clockwise; then turn B2 clockwise until the picture almost locks into sync (3-4 diagonal bars).
6. Turn the horizontal hold control counter clockwise until the picture locks in and then pack to full clockwise. If the picture falls out of sync, adjust B1 SLIGHTLY.
7. Check for horizontal hold while switching channels. If good hold action is not obtained at full clockwise position of the horizontal hold control, turn B1 in SLIGHTLY until desired results are obtained. If excessive squedging (Christmas Tree effect) is experienced while switching channels, readjust B2 SLIGHTLY. Check to make sure no horizontal bending is introduced at the top of the picture.



TUNER REAR VIEW

DISASSEMBLY

CHASSIS REMOVAL

1. Remove 9 push-top.
2. Remove 3 metal the rear cover.
3. Remove the spe yoke clamp and HV
4. Remove 1 metal shaft.
5. Remove 2 hex n
6. Remove 1 metal
7. Remove 4 chass
8. Remove the cha

ONE SIDE OF A
Care should be
equipment or pl

TRADE NAME

MANUFACTURER
TYPE SET
TUBES
POWER SUPPLY

TUNING RANGE

TUNER OSCILLATOR

Touch-up adjustment
removing the channel
fine tuning at the ce
accessible, one at
Adjust for best pict

PICTURE TUBE SA

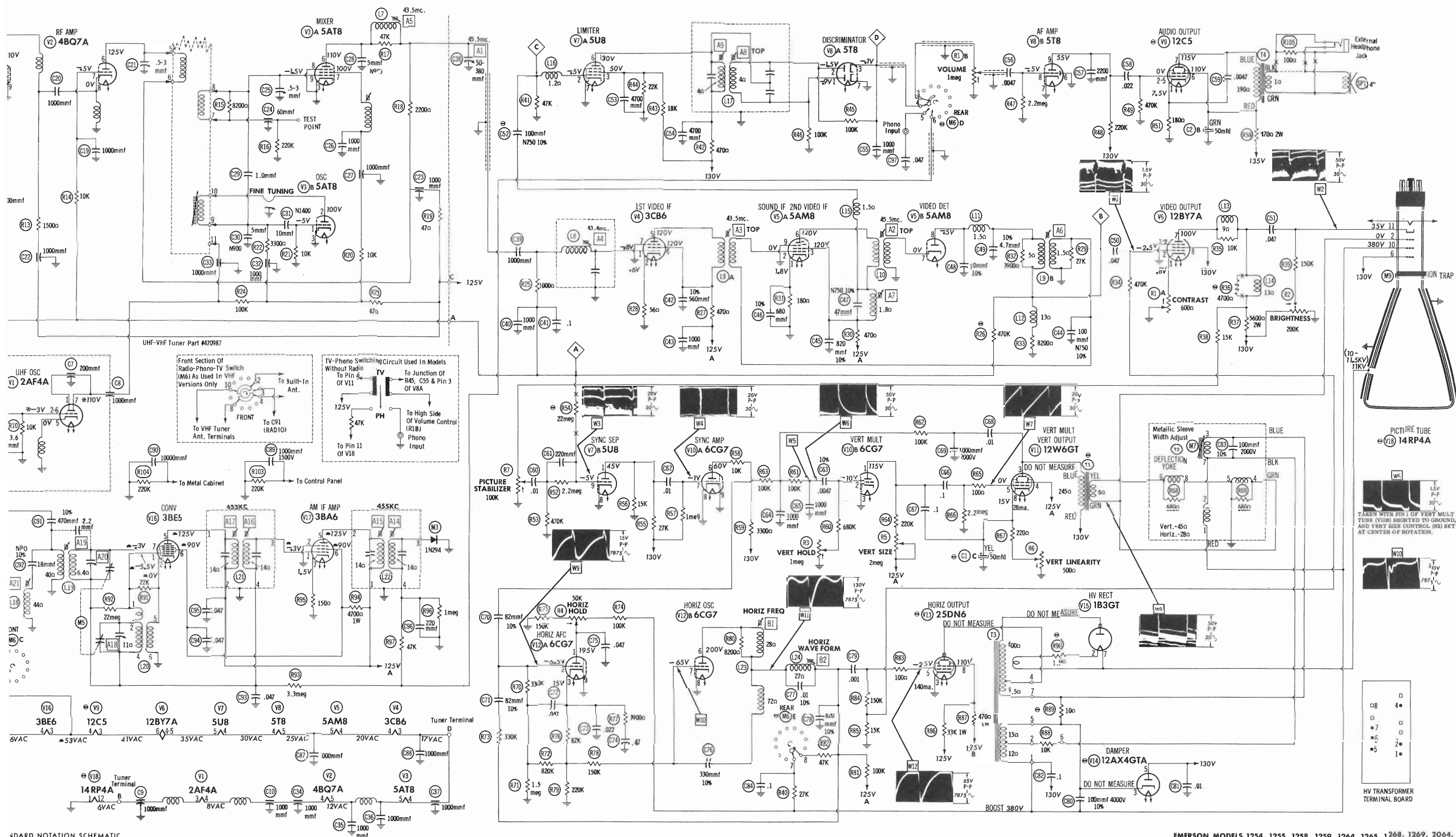
Remove 2 metal scr
the bottom of the fr

SPECIAL ADJUSTM

A. Focus
Adjust the ion trap
mum brightness.

B. Width
The width may be v
calated between the y
sleeve in or out of t
than necessary to fl

The listing of any a
not constitute in any
guaranty by Howard
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these parts have bee
to Howard W. Sams
H209



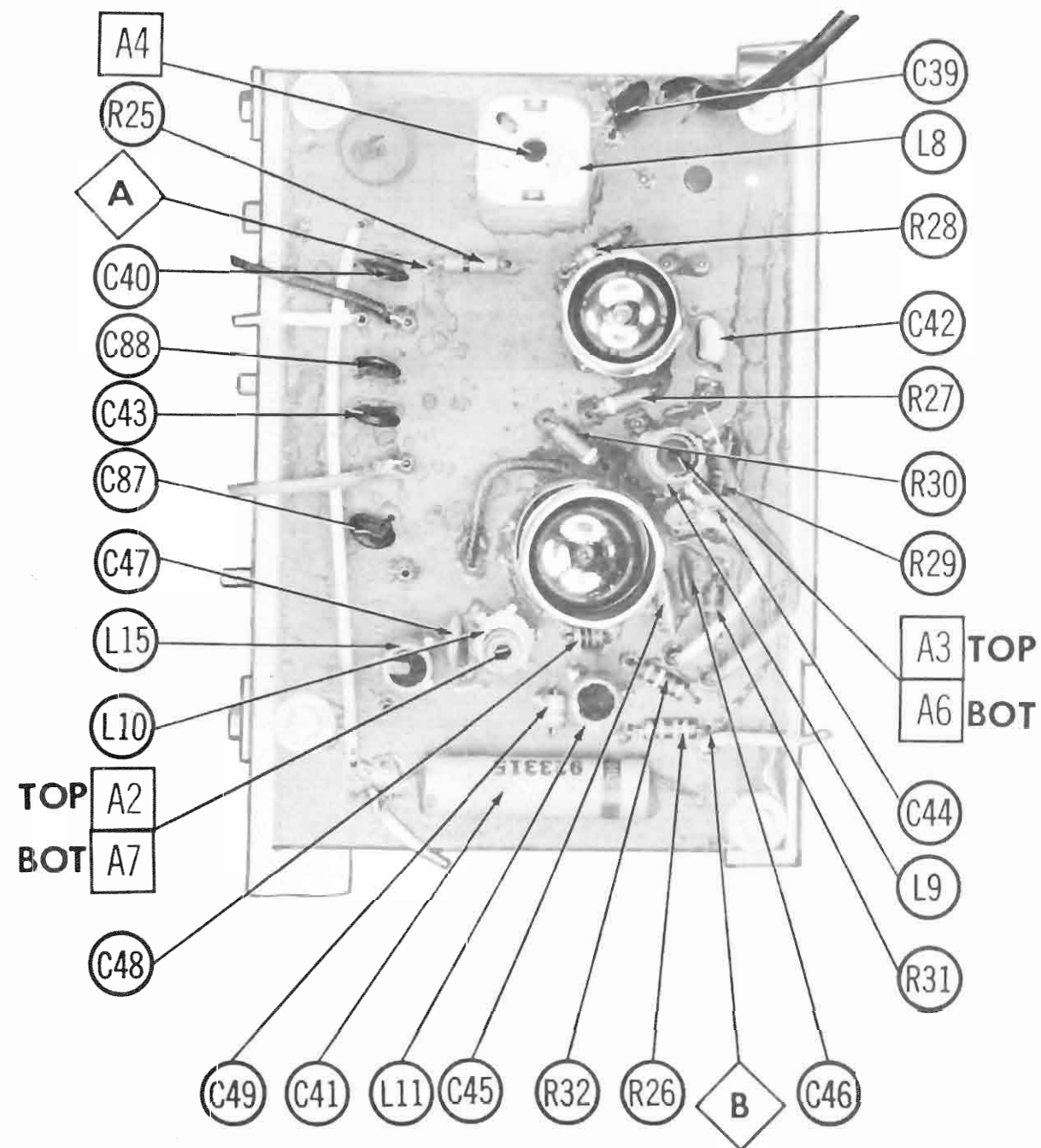
EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065 (Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	2AF4A	† 3450Ω	10K	1.5Ω	2Ω	1Ω	10K	† 3450Ω		
V2	4BQ7A	† 1600Ω	480K	0Ω	2Ω	3Ω	† 165Ω	490K	0Ω	0Ω
V3	5AT8	10K	† 3400Ω	0Ω	4Ω	3Ω	† 2300Ω	† 10K	0Ω	220K
V4	3CB6	480K	56Ω	4Ω	5Ω	† 590Ω	† 590Ω	0Ω		
V5	5AM8	180Ω	1.6Ω	† 590Ω	5Ω	6Ω	† 590Ω	1Ω	8200Ω	0Ω
V6	12BY7A	● 95Ω	485K	0Ω	9.5Ω	9.5Ω	11Ω	† 5600Ω	† 22Ω	0Ω
V7	5U8	† 14K	47K	† 11K	7Ω	9.5Ω	† 490Ω	0Ω	0Ω	2.6meg
V8	5T8	100K	100K	150K	7Ω	6Ω	0Ω	0Ω	2.2meg	† 220K
V9	12C5	180Ω	470K	11Ω	13.5Ω	470K	† 470Ω	† 660Ω		
V10	6CG7	● † 900K	● 950K	0Ω	18Ω	20Ω	† 13K	† 1meg	0Ω	0Ω
V11	12W6GT	NC	14.5Ω	† 267Ω	† 140Ω	2.2meg	TP	16Ω	● 360Ω	
V12	6CG7	● † 90K	900K	270K	16Ω	18Ω	† 70K	320K	0Ω	0Ω
V13	25DN6	NC	23Ω	0Ω	TP	160K	TP	28Ω	† 590Ω	TOP CAP † 20Ω
V14	12AX4GTA	NC	NC	Ω	NC	† 140Ω	NC	23Ω	20Ω	
V15	1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 620Ω
V16	3BE6	● 22K	● 7Ω	● 13.5Ω	● 4Ω	● † 155Ω	● † 4800Ω	● 3.8meg		
V17	3BA6	● 3.8meg	● 0Ω	● 14Ω	● 14.5Ω	● † 155Ω	● † 4800Ω	● 150Ω		
V18	14RP4A	0Ω	12Ω	PIN 6 † 22Ω	PIN 10 † 0Ω	PIN 11 ● 190K	PIN 12 1.5Ω			

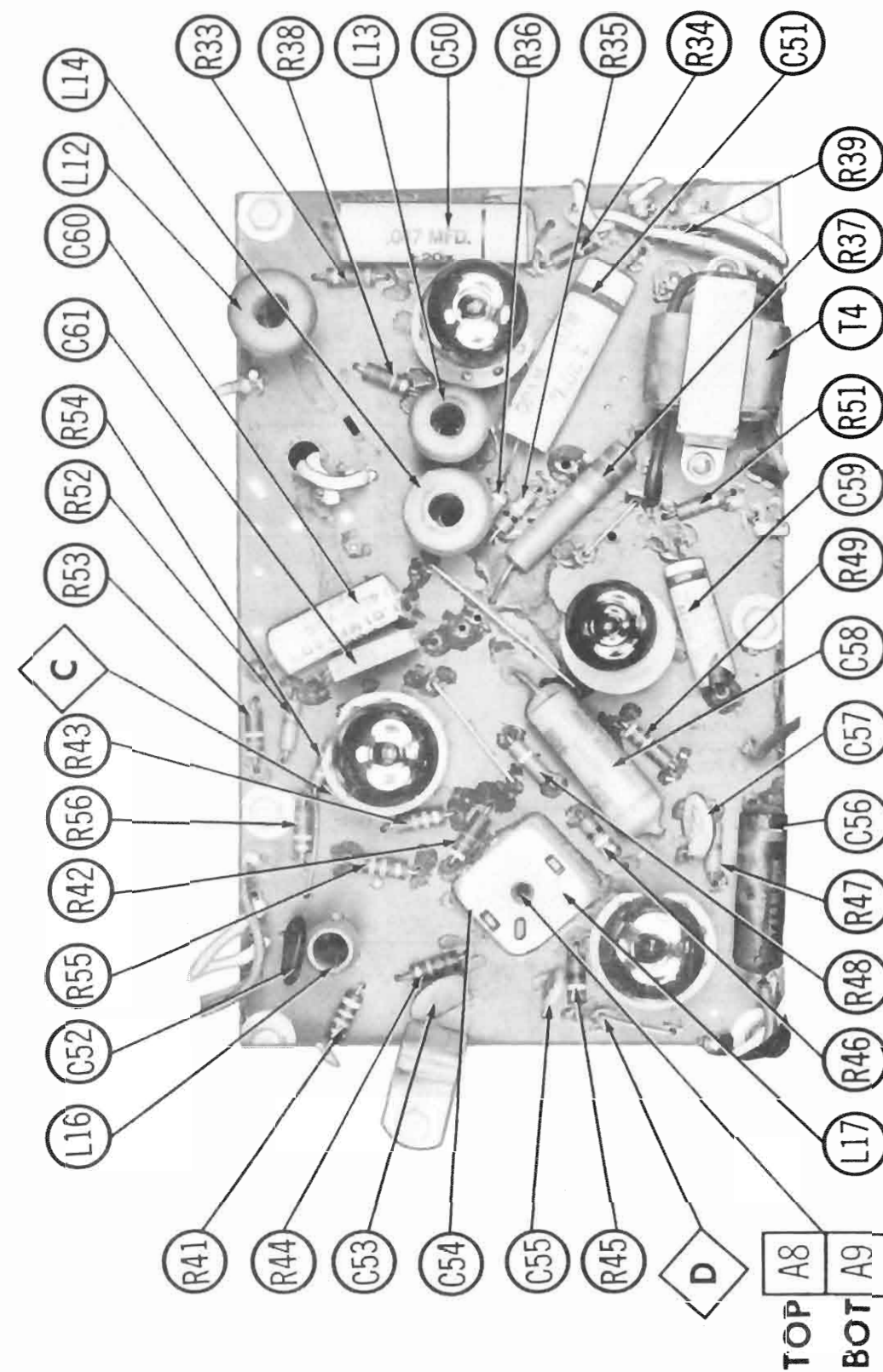
Bottom View Schematic Diagram:

- Top Left Section:**
 - V15 1B3GT HV RECT
 - AM TUNING
- Top Center Section:**
 - V18 14RP4A (17AVP4A) 21ALP4 21BTP4 PICTURE TUBE
- Center Section:**
 - V6 12BY7A VIDEO OUTPUT
 - SYNC connection to V7
 - V7 5U8 LIMITER SYNC SEP
 - V9 12C5 (12C05) AUDIO OUTPUT
 - V8 5T8 DISCRIMINATOR AF AMP
- Bottom Left Section:**
 - HORIZ OUTPUT
 - V13 25DN6 (25CD6GA)
 - DAMPER
 - V14 12AX4GTA (12D4)
 - HORIZ FREQ ADJ
 - HORIZ WAVEFORM
 - HORIZ AFC HORIZ OSC
 - V12 6CG7
- Bottom Center Section:**
 - VERT LIN
 - VERT SIZE
 - DIODE - UHF MIXER (1N62A)
 - V10 6CG7 SYNC AMP VERT MULT
- Bottom Right Section:**
 - VERT MULT VERT OUTPUT
 - V11 12W6GT
- Right Edge Connections:**
 - HORIZ HOLD
 - VERT HOLD
 - BRIGHTNESS
 - OFF-ON VOL
 - VHF CHANNEL SELECTOR
 - RADIO-PHONO-TV SELECTOR SWITCH
- Bottom Edge:**
 - FUSE - POWER SUPPLY (1A-125V-S/B)
 - PICTURE STABILIZER

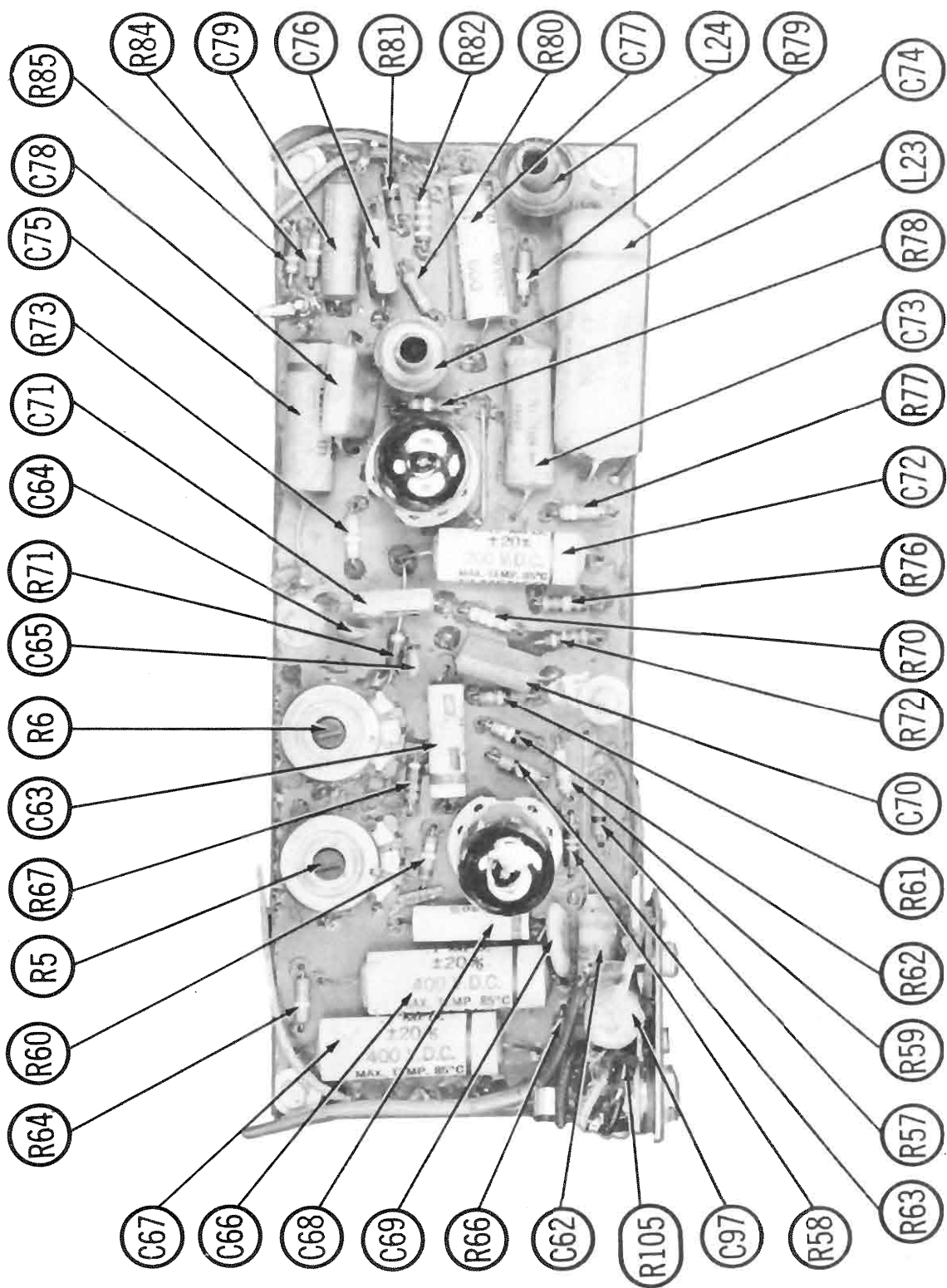
FOLDER 1



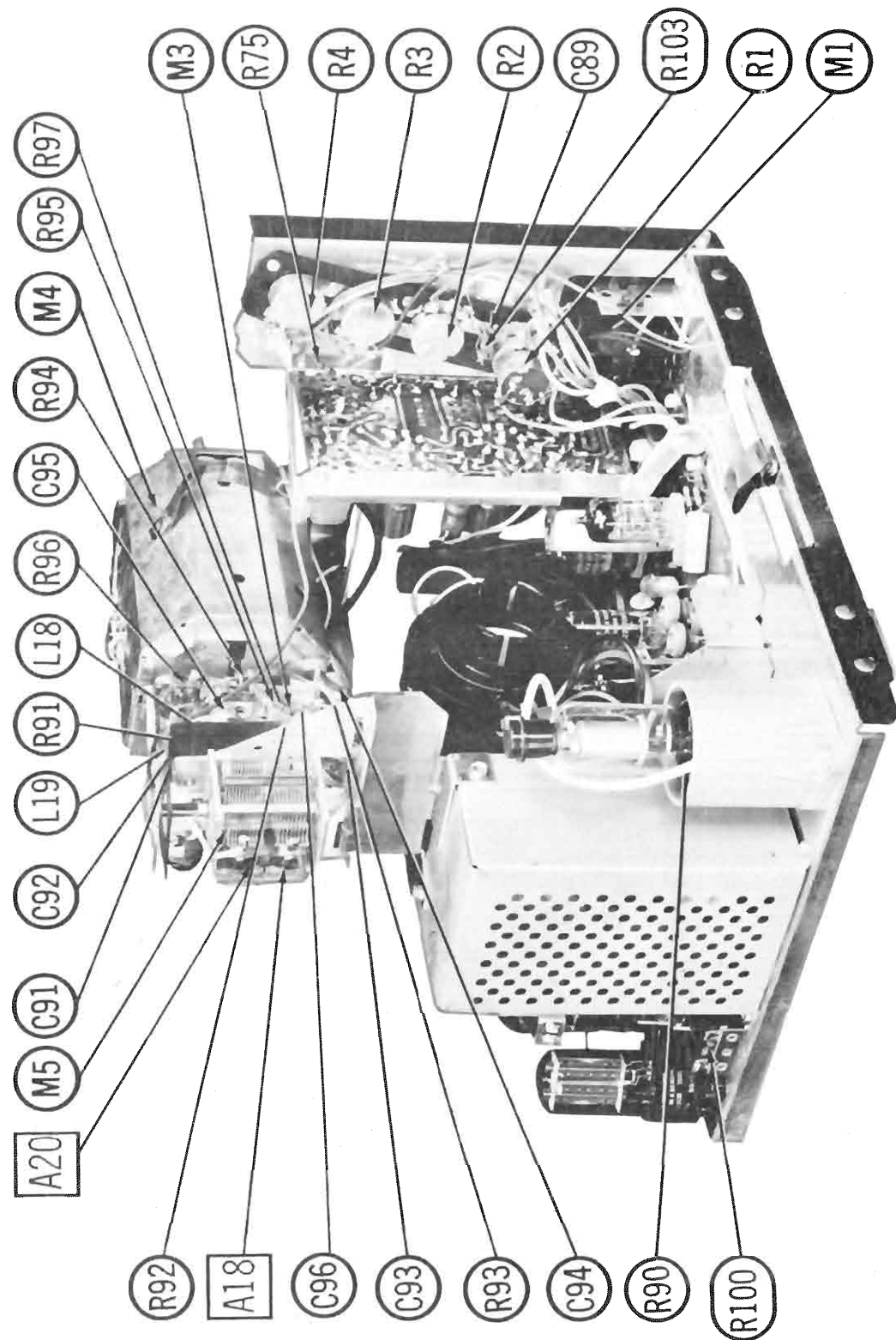
VIDEO IF PRINTED BOARD



EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065
(Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)
VIDEO IF PRINTED BOARD & SYNC, CENOS & OEDIA



SWEET PRINTED BOARD



EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065
(Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)

WIA LNOF SSSVHC

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

USE AN ISOLATION TRANSFORMER TO PROTECT THE TEST EQUIPMENT.
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.

VIDEO IF ALIGNMENT

Connect the negative lead of a 3 volt bias supply to point \diamond . Positive to chassis.
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V3). Low side to chassis.	Not used	45.5MC (Unmod)	Any non-interfering channel	USE VTVM. DC probe to point \diamond . Common to chassis.	A1, A2	Preset A1 fully clockwise. Use only enough generator output to provide a usable indication on VTVM. Adjust A2 for maximum deflection on VTVM.
2. "	"	"	43.5MC	"	"	A3, A4, A5	Use only enough generator output to provide a usable indication on VTVM.
3. "	"	44.0MC (10MC Swp)	45.75MC	"	Vert. Amp. thru 10K to point \diamond . Low side to chassis.		Use only enough sweep generator output to provide a usable pattern on scope. Check for response similar to Fig. 1. Adjust A1 to place marker at 40% on curve. A1 also affects bandwidth which should be about 3MC.

SOUND IF ALIGNMENT

- Loosely couple the antenna to the antenna terminals of the receiver and tune in a weak TV signal.
- Connect the DC probe of the VTVM to point \diamond . Common to chassis.
- Adjust A6 and A7 for maximum negative reading on the VTVM.
- Move the DC probe to point \diamond . Detune A8 for maximum negative reading on the VTVM.
- Adjust A9 for maximum negative reading on the VTVM.
- Readjust A8 toward original position of slug for MINIMUM voltage reading on the VTVM. Check the audio, if distorted, repeat steps 1 thru 6.

VHF OSCILLATOR ALIGNMENT FOR TUNER #470980

Channel 13 oscillator adjustment slug (A10) is also used for adjusting the other high band (12 thru 7) channels. Channel 6 oscillator adjustment slug (A11) is also adjusted for channel 5. Channel 4 oscillator adjustment (A12) is also adjusted for channel 3. Channel 2 oscillator slug (A13) is used only for channel 2.
Turn the set on and tune in the highest high band channel operating in the area and adjust controls for normal operation. Set fine tuning to the center of its range. Adjust A10 for best picture and sound. Switch to next high band channel. If necessary to adjust, do so by bending coil loop appearing at the hole to left of tuner shaft for best picture and sound.
Switch channel selector to the highest low band channel (6 thru 2) operating in the area. Adjust proper slug for best picture and sound. If channel 5 or 3 needs adjusting, it will be necessary to switch to the next higher channel, adjust slug SLIGHTLY, then switch back to the channel needing adjustment and check picture. Repeat until proper results are obtained. Repeat procedure until all channels operating in the area have been properly adjusted.

VHF OSCILLATOR ALIGNMENT FOR TUNER #470987

Adjustment of the oscillator may be accomplished by adjustment slugs, accessible one at a time thru a hole in the front of the tuner chassis as the receiver is switched to each channel. Set the fine tuning to the center of its range and adjust the oscillator slug for best picture and sound.

UHF TUNER ALIGNMENT

This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field.

RADIO ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
4. .05mfd	High side to AM antenna stator lug on tuning gang. Low side to chassis.	455KC (400% Mod)	Radio	Tuning gang fully open	Across voice coil	A14, A15, A16, A17	Adjust for maximum output.
5. "	Loop	1638KC	"	"	"	A18	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
6. "	"	600KC	"	600KC	"	A19	"
7. "	"	1425KC	"	Tune to 1425KC signal	"	A20	"
8. "	"	455KC	"	Tuning gang fully open	"	A21	Adjust for MINIMUM output.

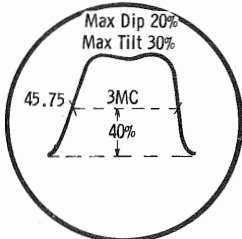
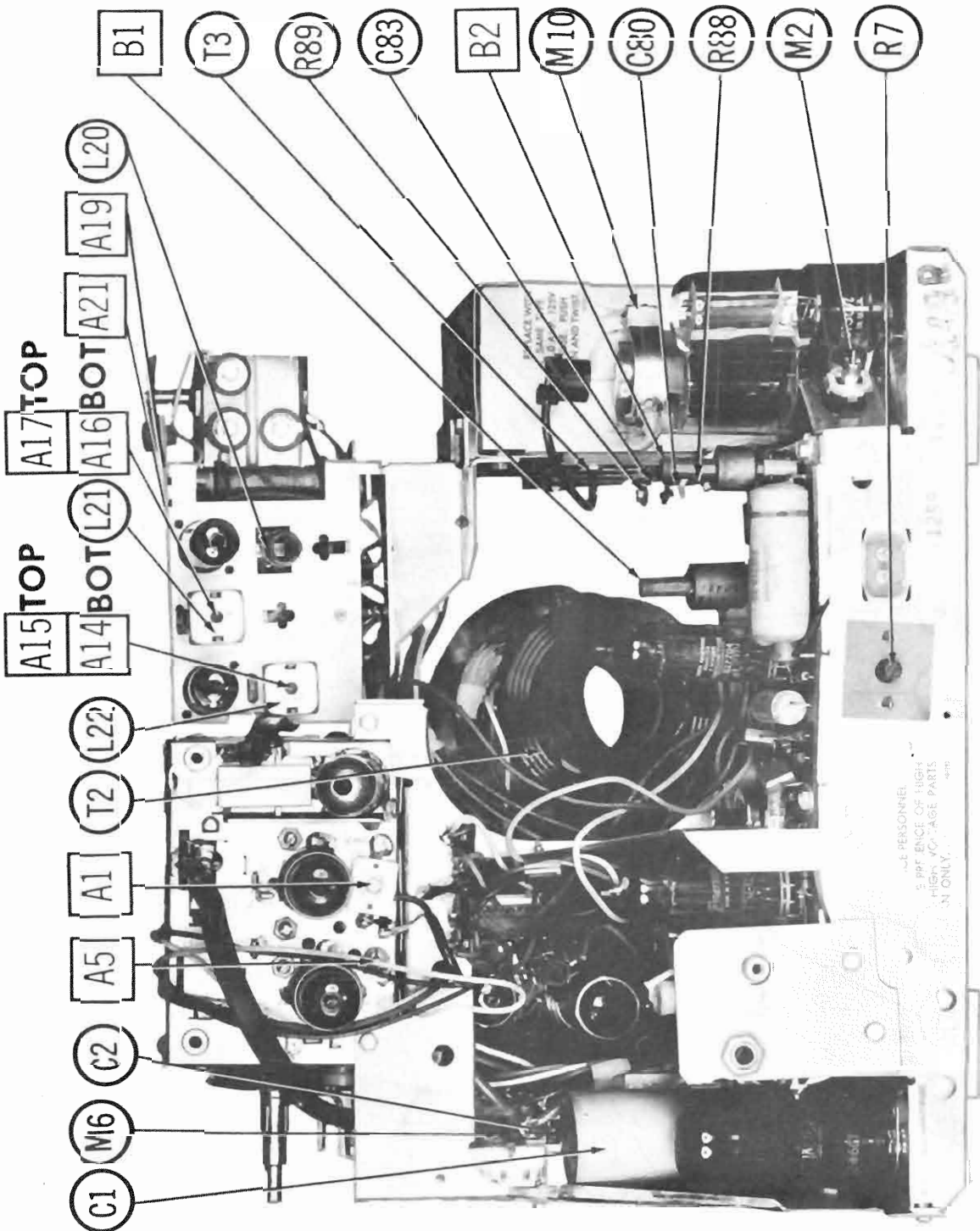


FIG. 1



EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065
(Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)
WELA RAR SSSVHC

PARTS LIST AND DESCRIPTIONS (Continued)

RECTIFIERS

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA					NOTES
		EMERSON PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	SARKIS TARZIAN PART No.	
M1	.290A	817047 ① ②	1023A ①	1N1007 ③	RS350SL ①	350A ① M500 ④	① Selenium type. ② Alternate part # 817066 (silicon type) used in Ch. 120358H, 120359R ③ Germanium type. ④ Silicon type.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			EMERSON PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M2	N	1A 125V S/B	808014		333001. (N-1A-125V- S/B)	346011	NI	HN 3/4 to 1 1/4

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		EMERSON PART No.	CBS PART No.	SYLVANIA PART No.	
M3	1N294	817061	1N54A	1N34A	AM Det., AVC (Pigtail)

MISCELLANEOUS

ITEM No.	PART NAME	EMERSON PART No.	NOTES
M4	Tuner	470987	UHF/VHF - Chassis ending with suffix "R"
M5	Tuner	470980	VHF - Chassis ending with suffix "H"
M6	Tuning Cap.	900166	2 Gang (Ant. 12-295mmf, Osc. 12-115mmf)
M7	Switch	510085	Radio-Phono-TV, Rotary, wafer type
M8	Width sleeve	510125	Radio-Phono-TV (Alternate)
M9	Centering Device	412302	
M10	Ion Trap	708277	Includes yoke cover
	Magnet	708316	
	Yoke Clamp	708234	Barkhausen Eliminator

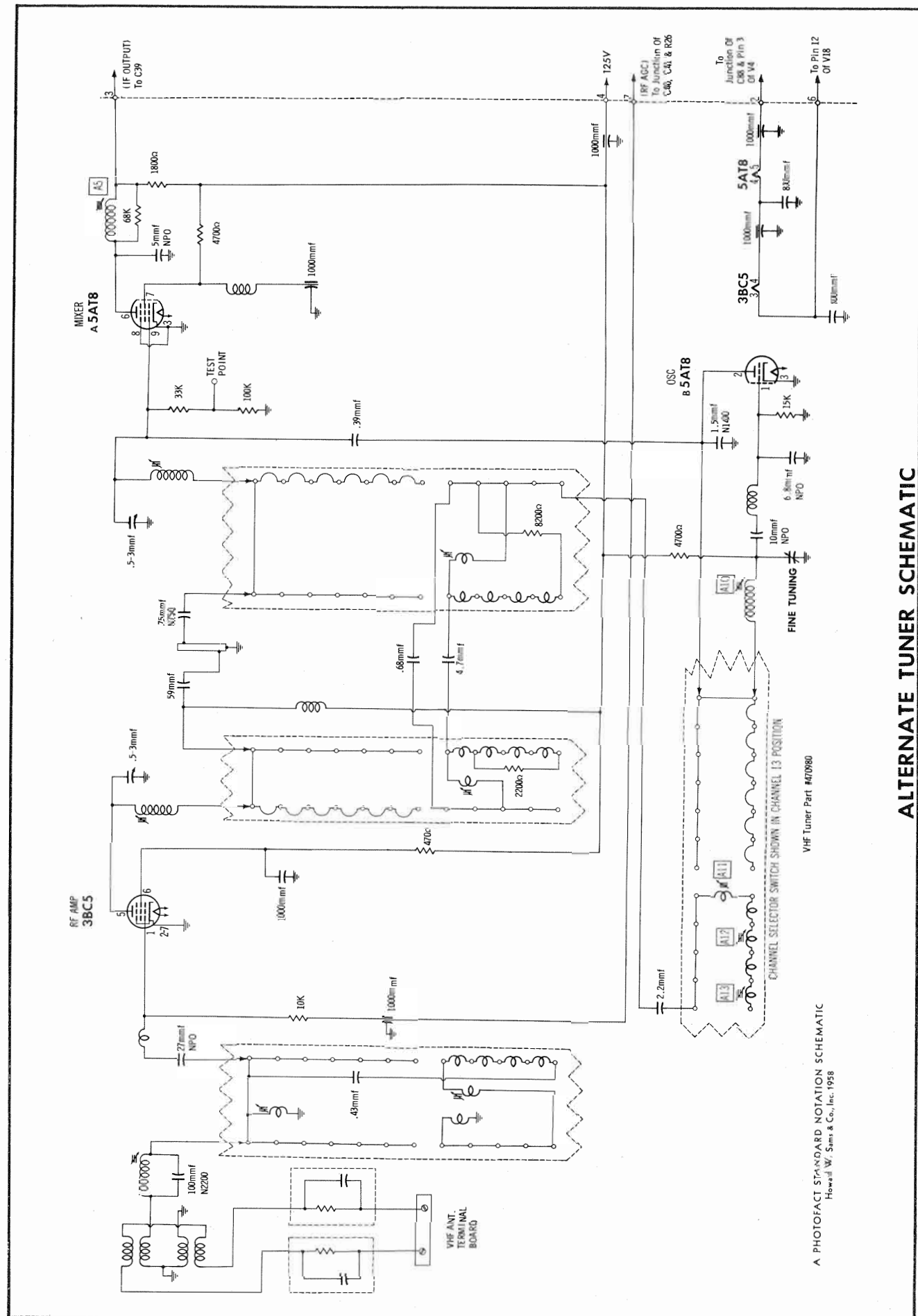
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Safety Glass	480803	Models 1254, 1255
Safety Glass	480804	Models 1264, 1265
Safety Glass	520256	Models 2064, 2065
Knob	480859	Radio Tuning - Models 1258, 1259
Knob	480861	Radio Tuning - Models 1268, 1269
Knob	480860	Function Switch - Models 1258, 1259
Knob	480862	Function Switch - Models 1268, 1269
Knob	480830	UHF Selector - Models 1255, 1259
Knob	480831	UHF Selector - Models 1265, 1269
Knob	480828	VHF Channel Selector - UHF Models 1255, 1259
Knob	480829	VHF Channel Selector - UHF Models 1265, 1269
Knob	480844	VHF Channel Selector - VHF Models 1254, 1258
Knob	480821	VHF Channel Selector - VHF Models 1264, 1268
Knob	450258	VHF Channel Selector - Model 2064
Knob	480907	VHF Channel Selector - Model 2065
Knob	480826	Fine Tuning - UHF Models 1255, 1259
Knob	480827	Fine Tuning - UHF Models 1265, 1269
Knob	480765	Fine Tuning - VHF Models 1254, 1258
Knob	480820	Fine Tuning - VHF Models 1264, 1268
Knob	450209A	Fine Tuning - Model 2064
Knob	480692	Fine Tuning - Model 2065
Knob	480908	UHF Channel Selector - UHF Model 2065
Knob	480806	On-off-volume - Models 1254, 1255
Knob	480824	On-off-volume - Models 1264, 1265
Knob	450207A	On-off-volume - Models 2064, 2065
Knob	480807	Contrast - Models 1254, 1255
Knob	480822	Contrast - Models 1264, 1265
Knob	450208A	Contrast - Models 2064, 2065
Knob	480808	Vert. Hold, Horiz. Hold, Brightness - Models 1254, 1255
Knob	480823	Vert. Hold, Horiz. Hold, Brightness - Models 1264, 1265
Knob	450212A	Vert. Hold, Horiz. Hold, Brightness - Models 2064, 2065

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor



A PHOTOFAC T STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1978

EMERSON MODELS 1254, 1255, 1258, 1259, 1264, 1265, 1268, 1269, 2064, 2065
(Ch. 120341H, 120342R, 120347H, 120348R, 120358H, 120359R)

C11WVHCS REN11 51VNR3117A

FOLDER 1

SET 387 FOLDER 1

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	UHF Oscillator	2AF4A	
V2	RF Amp.	4BQ7A	
V3	Mixer-Osc.	5AT8	
V4	1st. Video IF Amp.	3CB6	
V5	2nd. Video IF Amp. - Sound IF Amp. - Video Det.	5AM8	
V6	Video Output Limiter-Sync Sep.	12BY7A	
V7		5B8	

Note 1. Some versions may use 12CU8 in this application.
 Note 2. Some versions may use 25CD6GA in this application.
 Note 3. Chassis 120358H, 120359R use a 12D4 in this application.

PICTURE TUBE

ITEM No.	REPLACEMENT DATA	EMERSON PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	NOTES
V18	14RP4A 17AVP4A	17AVP4A 17ATP4A	17ATP4A 17ATP4A	14RP4A ① 17ATP4A 17ATP4A 17ATP4A 17AVP4A 21ALP4A 21ALP4B ① 21ALP4 21BTP4	① Silver screen "85" ② Aluminized

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	EMERSON PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1A	250 150	925386 ①	PR3-043					RI996 *
B	120 150							
C	50 25							
C2A	250 150	925385	PR2-120		WD251			RI995 *
B	50 150							

* Non-catalog item.

① Alternate part #925387. Chassis 120358H, 120359R use a 250mfd @ 160V, 120mfd @ 160V, 50mfd @ 50V (Part #925412) in this application.

FIXED CAPACITORS

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

ITEM No.	RATING	EMERSON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C3	5								N900
C4	5								N800
C5	15								N80
C6	3.6								N220
C7	200								
C8	1000	961284	EF-001	MFT-1000					503C-DI
C9	1000	961284	EF-001	MFT-1000					503C-DI
C10	1000	961284	EF-001	MFT-1000					503C-DI
C11	120		BPD-00012	DD-121	LI8T12	ED-120	UC-5312		5GA-T12
C12	5.8		NPO-DI 5	TCZ-4R7	C10V5C	TCO-5	2T-555		5TCCB-V5
C13	5.8		NPO-SI 6.8	TCZ-6R8	C10V88C	TCO-6.8	2T-5558		5TCCB-V68
C14	5.8		NPO-SI 6.8	TCZ-6R8	C10V88C	TCO-6.8	2T-5558		5TCCB-V68
C15	1000		BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C16	1000		BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C17	2.2		NPO-SI 2.2	TCZ-2R2	C10V22C	TCO-2.2			5TCCB-V22
C18	3-12	961362	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C19	1000		BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C20	1000	961088	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C21	0.5-3	961088	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C22	1000	961284	EF-001	MFT-1000					503C-DI
C23	1000	961284	EF-001	MFT-1000					503C-DI
C24	60	961292							
C25	0.5-3	961088							
C26	1000	961284	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C27	1000	961284	EF-001	MFT-1000					503C-DI
C28	5		NPO-SI 1.0	TCZ-1					5TCCB-V1
C29	1.0								
C30	5								
C31	10								
C32	1000	961284	EF-001	MFT-1000					503C-DI
C33	1000	961284	EF-001	MFT-1000					503C-DI
C34	1000	961284	EF-001	MFT-1000					503C-DI
C35	1000		BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C36	1000		BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C37	1000	961284	EF-001	MFT-1000					503C-DI
C38	50-380	900163							
C39	1000	928933	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C40	1000	928933	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C41	.1	223315	P288N-1	DF-104	CUB2P1	GEM-201			
C42	560	928908		D6-561	1R5T56	ED-560	MS-356		10%
C43	1000	928933	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C44	100	928897	N750-SI 100	TCN-100	C10T1U	TC7-100	NT-531		N750 10%
C45	820	928910							
C46	680	928909							
C47	47	928895	N750-SI 47	TCN-47	C10G47U	TC7-47	NT-5447		N750 10%
C48	10	928216	NPO-SI 10	CTA6QC	ED-10	5TCC-Q1	10%		
C49	4.7	928212	NPO-SI 4.7	TCZ-4R7	CTA6V47C	TCO-4.7			
C50	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C51	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C52	100		N750-SI 100	TCN-100	C10T1U	TC7-100	NT-531		N750 10% ①
C53	4700	928923	BPD-0047	DD-472	BYA10D47	ED-0047	UC-5247		5GA-D47
C54	4700	928923	BPD-0047	DD-472	BYA10D47	ED-0047	UC-5247		5GA-D47
C55	1000	928919	BPD-001	DD-102	BYA6DI	ED-1000	DC521		5HK-DI
C56	.0047	600	P688N-0047	D6-472	CUB6D47	GP-4700	GEM-6247		8TM-D47
C57	2200	928921	BPD-0022	DD-222	BYA10D22	ED-0022	UC-5222		5GA-D22
C58	.022	400	P488N-022	DD-203	CUB4S22	ED-02	GEM-4122		4TM-S22
C59	.0047	600	P688N-0047	D6-472	CUB6D47	GP-4700	GEM-6247		8TM-D47
C60	.01	400	P488N-01	D6-103	CUB4S1	GP-10000	GEM-421		4TM-S1
C61	.01	400	1468-00022	D6-221	5W5T22	GP-320	UC-5322		1FM-322
C62	.01	400	P488N-01	D6-103	CUB4S1	GP-10000	GEM-411		4TM-S1
C63	.0047	400					GEM-16247		10%

PARTS LIST AND DESCRIPTIONS
CAPACITORS (cont)

ITEM No.	RATING	EMERSON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C64	1000	928919	BPD-0001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C65	1000	928919	BPD-0001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C66	.1	400	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1		
C67	.1	400	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1		
C68	.01	400	P488N-01	D6-103	CUB4S1	GP-10000	GEM-411	4TM-S1	
C69	1000	928930	BYD-30-100	DD30-102	HVB20DI	HD3-1000	DC3021	20HKB-DI	
C70	82	91160	1469-00082	D6-820	2ZRSQ82	ED-82	MS-482		10%
C71	82	91160	1469-00082	D6-820	2ZRSQ82	ED-82	MS-482		10%
C72	.047	200	P288N-047	DF-503	CUB2S47	GEM-4147	4TM-S47		
C73	.022	400	P488N-022	DD-203	CUB4S22	ED-02	GEM-4122	4TM-P47	
C74	.047	200	P288N-47	DF-503	CUB2P47	GEM-2047	4TM-S47		
C75	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C76	330	91167	1469-00033	D6-331	SR5T33	ED-330	MS-333		10%
C77	.01	600							10%
C78	820	911328	1464-00082	D6-102	IR5T82	ED-820	MS-382		10%
C79	.001	400	P488N-001	D6-102	CUB4DI	GP-1000	GEM-421	4TM-DI	
C80	100	928114							10%
C81	.01	400	P488N-01	D6-103	CUB4S1	GP-10000	GEM-401	4TM-S1	
C82	.1	400	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1		
C83	100	928932							②
C84	.1	400	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1		
C85	.1	400	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1		
C86	.1	200	P288N-1	DF-104	CUB2P1	GEM-201	2TM-P1		
C87	1000	928933	BPD-001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C88	1000	928933	BPD-001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C89	1000	928927	HVD-15-100	DD30-102	HVB16DI	HD15-1000	DC3021	20GA-DI	
C90	10000	922201	BPD-01	DD-103	BYA6S1	ED-01	DC311	5HK-S1	
C91	470	928956		D6-471	SR5T47	ED-470	MS-347		10%
C92	18			TCZ-18	C10Q18C	TCO-18			NPO 10%
C93	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C94	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C95	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		
C96	220	928946	BPD-00022	DD-221	LI8T22	ED-220	UC-5322	5GA-T22	
C97	.047	400	P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47		

① Some versions use 150mmf 10% (Part #928903) in this application.

② Some versions use .01mfd in this application.

CONTROLS

ITEM No.	RATING	EMERSON PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	600Ω	390451	F3-2	RTV-641		UE37638	Contrast Volume
B	1meg		R2-52	Not Req.			
C	Switch		KB-1	Not Req.			
R2A	200K	390452	B-46	A47-200K-S	Q11-129	U43	Brightness
B	Shaft		Not Req.	FS-3	Not Req.		
R3A	1meg	390453	B-69	A47-1meg-S	Q11-137	U54	Vert. Hold
B	Shaft		Not Req.	FS-3	Not Req.		
R4A	50K	390454	B-31	A47-50K-S	Q11-123	U35	Horiz. Hold
B	Shaft		Not Req.	FS-3	Not Req.		
R5	2meg	390403					Vert. Size
R6	500Ω	390405					Vert. Linearity
R7A	100K	390455	BX-40	A47-100K-S		PTA15L	Pix Stabilizer
B	Shaft		Not Req.	RN-3			

■ STA-LOC Equivalent FA62R, OF875, RU16A, IS1312, US-41.

RESISTORS

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

ITEM No.	RATING		EMERSON PART No.	NOTES	ITEM No.	RATING		EMERSON PART No.	NOTES
	OHMS	WATT				OHMS	WATT		
R8	680K				R55	27K		340832	
R9	680K				R56	15K		340772	
R10	10K				R57	1meg		351212	
R11	680K				R58	10K		340732	
R12	4700Ω				R59	3300Ω		340812	
R13	1500Ω				R60	680K		341172	
R14	10K				R61	100K		340972	
R15	8200Ω				R62	100K		340972	
R16	220K				R63	100K		340972	
R17	47K				R64	220K		351052	
R18	2200Ω				R65	100Ω		350252	
R19	47Ω				R66	2.2meg		351202	
R20	10K				R67	220Ω		340332	
R21	10K				R68	680Ω		350452	
R22	3300Ω				R69	680Ω		350452	
R23	47Ω				R70	330K		341092	
R24	100K				R71	1.5meg		341252	
R25	1000Ω		350492		R72	820K		341192	
R26	470K		341132	Note 1	R73	330K		341092	
R27	470Ω		350412		R74	100K		340972	
R28	56Ω		340192		R75	150K		341012	
R29	27K		340832		R76	82K		340952	
R30	470Ω		350412		R77	3900Ω		340632	
R31	180Ω		340312		R78	150K		341012	
R32	3900Ω		340632		R79	220K		341052	
R33	8200Ω		340712		R80	8200Ω		340712	
R34	470K		351132		R81	100K		340972	
R35	10K		340732		R82	47K		340892	
R36	4700Ω		340852	Note 2	R83	100Ω		350252	
R37	5600Ω	2	397102		R84	150K		341012	
R38	15K		340772		R85	15K		340772	
R39	150K		341012		R86	33K	1	370852	
R40	27K		340832		R87	470Ω	1	370412	
R41	47K		340892		R88	10K		340732	
R42	470Ω		350412		R89	10Ω		340012	Note 3
R43	18K		340792		R90	1.5Ω			Note 4
R44	22K		340812		R91	22K		340812	
R45	100K		340972		R92	22meg		351532	
R46	100K		340972		R93	3.3meg		351332	
R47	2.2meg		351292		R94	4700Ω	1	350852	
R48	220K		351052		R95	180Ω		340292	
R49	470K		351132		R96	1meg		351212	
R50	470Ω	2	790412		R97	47K		350892	
R51	180Ω		340312		R98	120Ω		370272	
R52	2.2meg		351292		R99	5Ω	5	394156	
R53	470K		351132		R100	1Ω	1	394171	
R54	22meg		341532	Note 2	R101	300Ω		340372	