



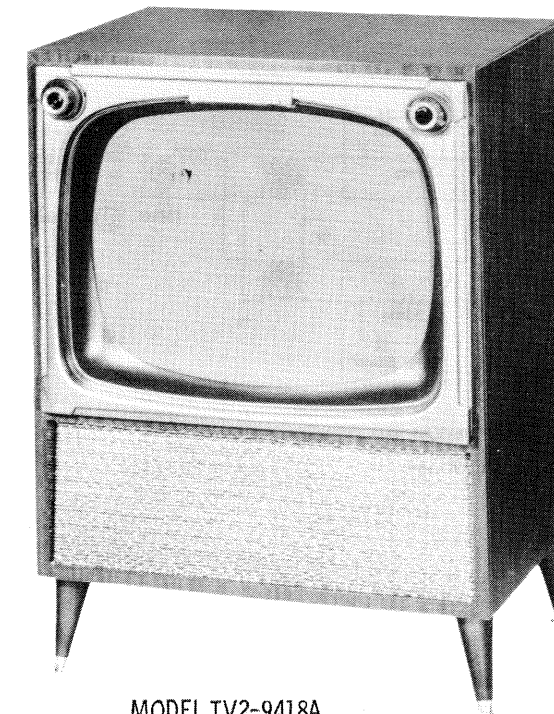
DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 4 wood screws and the rear cover.
2. Remove 2 speaker leads.
3. Remove the antenna terminal board by loosening 2 wood screws.
4. Remove 2 metal screws holding the top of the chassis to the rear of the cabinet.
5. Remove 2 metal screws from inside the cabinet, holding the bottom of the chassis to 2 lower brackets.
6. Remove chassis by sliding out from the front of the cabinet.
7. Remove 4 speaker nuts and the speaker.

CAUTION NOTE

ONE SIDE OF AC LINE CONNECTED TO CHASSIS



MODEL TV2-9418A

TRADE NAME	Coronado	MODELS	TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B, TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B, TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A
SUPPLIER	Gamble-Skogomo, Inc., 15 North 8th. St., Minneapolis, Minn.		
TYPE SET	Television Receiver		
TUBES	Sixteen		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING	155 Watts, 1.35 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)		

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

1. Remove the name plate by pulling straight out.
2. Remove 2 metal screws and the retainer bracket.
3. Remove the safety glass.

FOCUS

Adjust the ion trap for the best focus consistent with maximum brightness.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Set the horizontal hold control to the center of its range

and adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate audio detector buzz, adjust the buzz control for MINIMUM buzz and maximum sound. (For location see tube placement chart).

FUSES

A thermal circuit breaker is used for LV power supply protection and may be closed by means of a reset button. (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.

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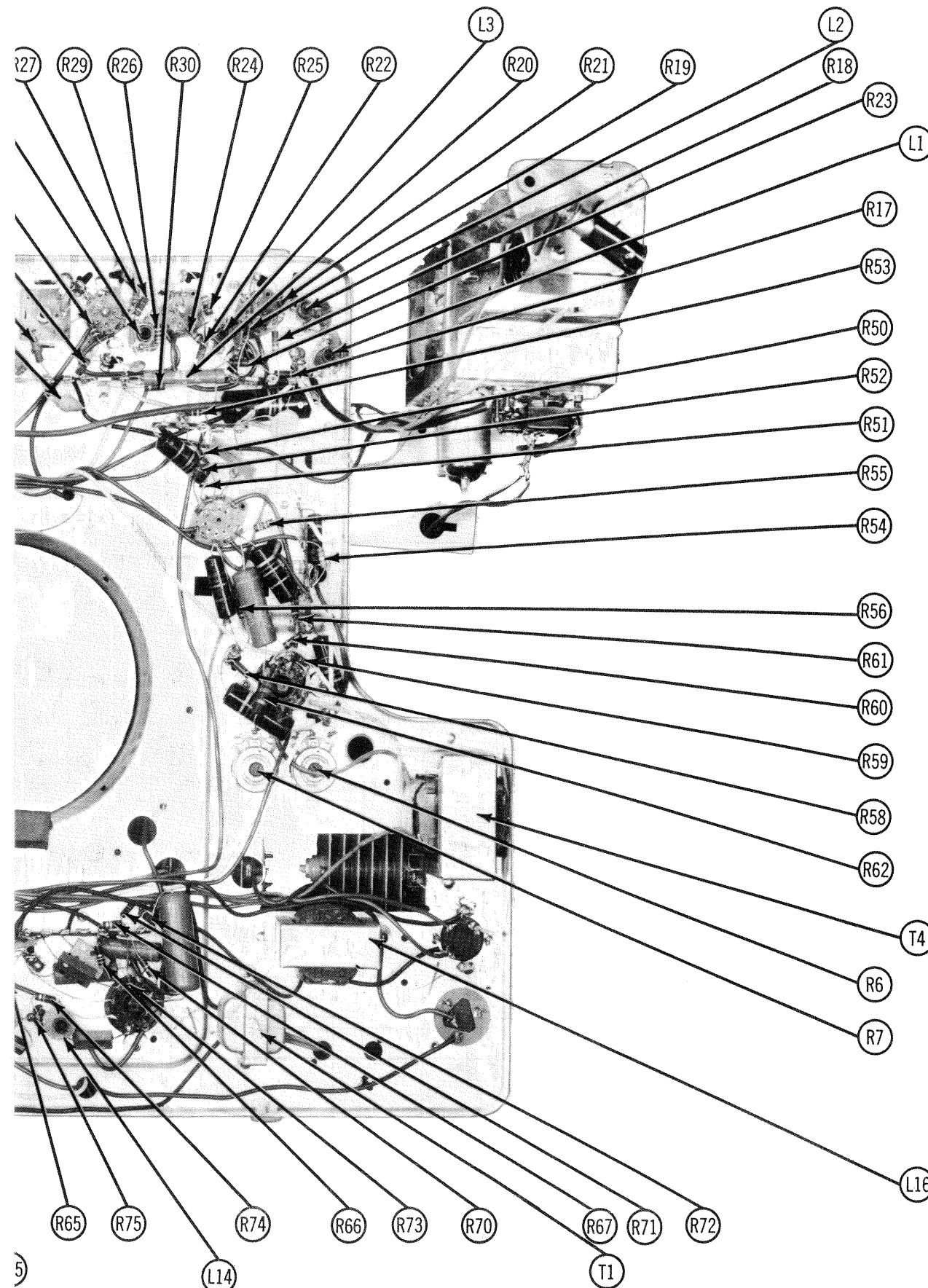
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DATE 11-57

SET 379

FOLDER 2

CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B, TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B, TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A



TOR AND INDUCTOR IDENTIFICATION

CHASSIS REM

1. Remove 4 w
2. Remove 2 s
3. Remove the screws.
4. Remove 2 r the rear of the
5. Remove 2 r the bottom of t
6. Remove ch the cabinet.
7. Remove 4 s

ONE SII

TRADE NAME

SUPPLIER
TYPE SET
TUBES
POWER SUPP
TUNING RANC

TUNER OSCILL

Touch-up adjus removing the cl the fine tuning are accessible, rotated. Adjust

PICTURE TUB

1. Remove the
2. Remove 2 m
3. Remove the

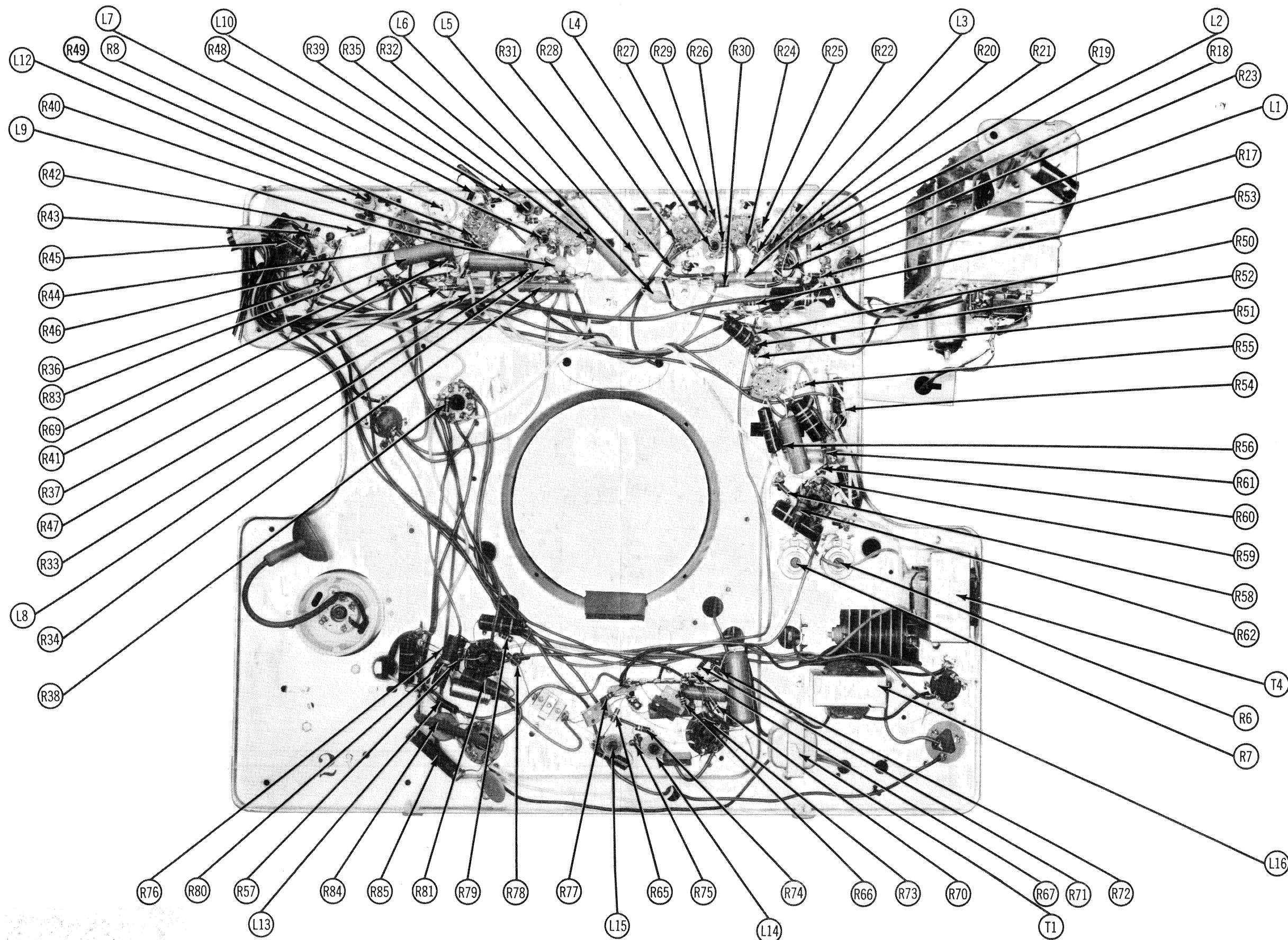
FOCUS

Adjust the ion t maximum brig

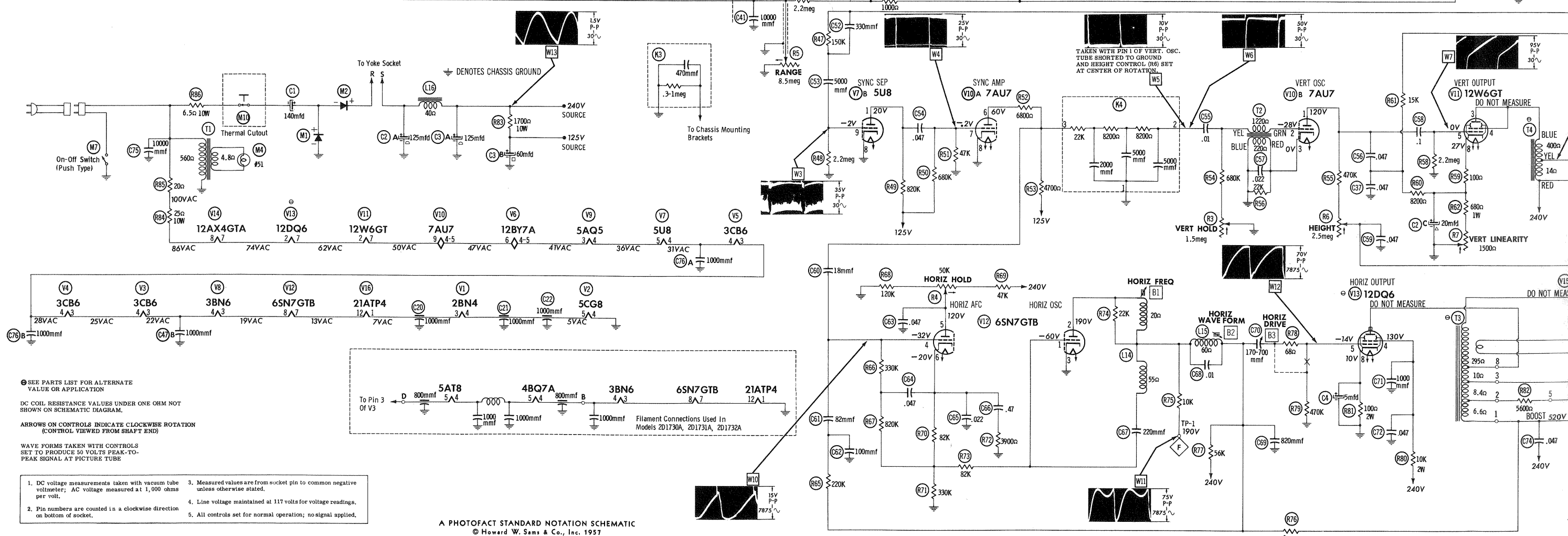
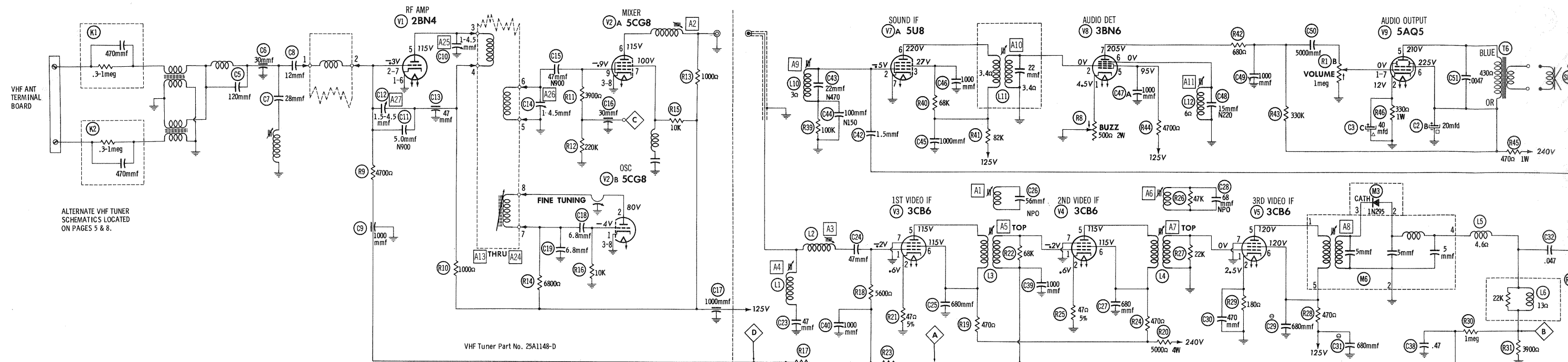
HORIZONTAL

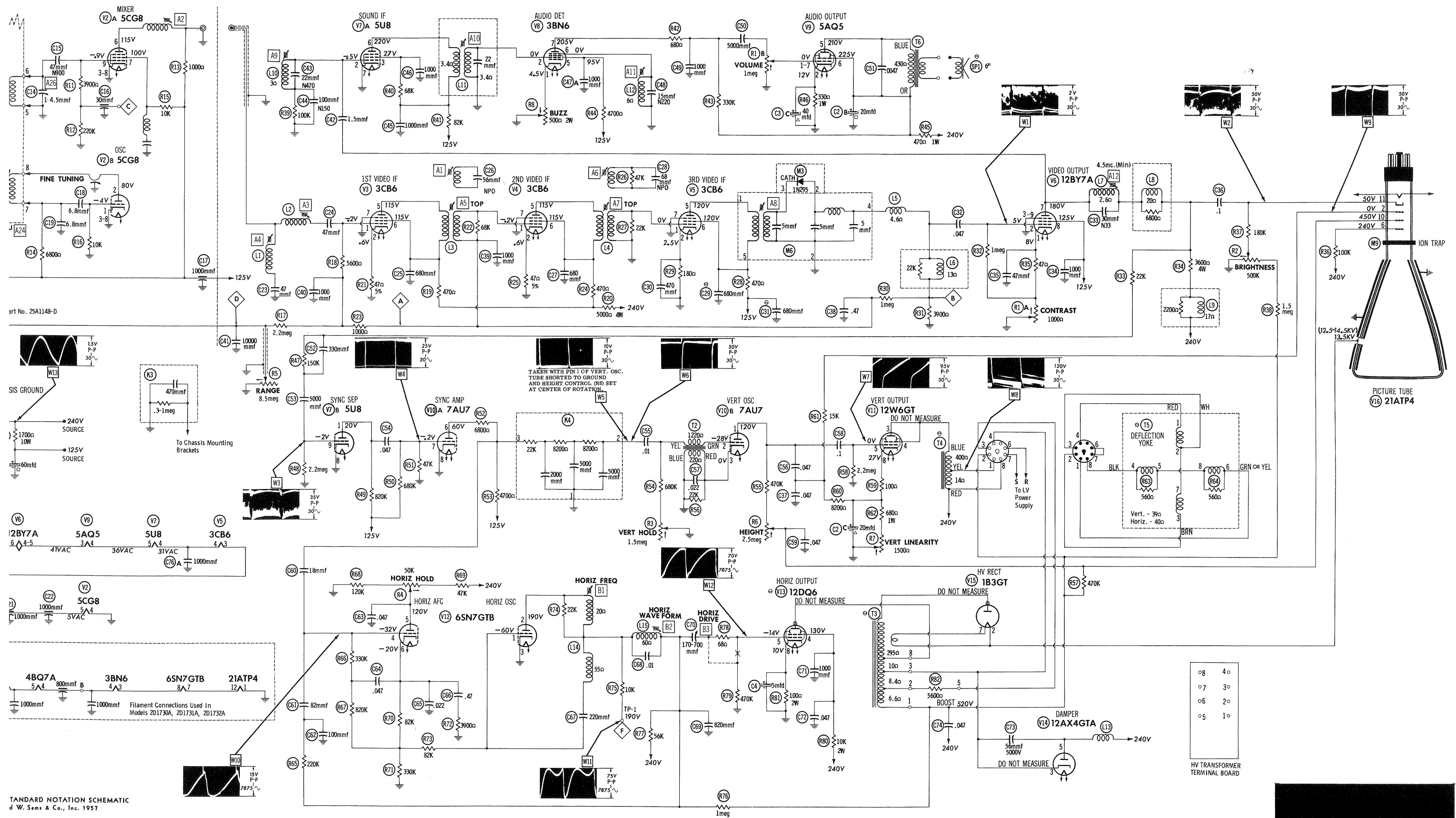
Set the horizon

"The listing of any av case a recommenda as to the quality and s parts have been comp Inc., by the manufact. "Reproduction or use, G921R



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

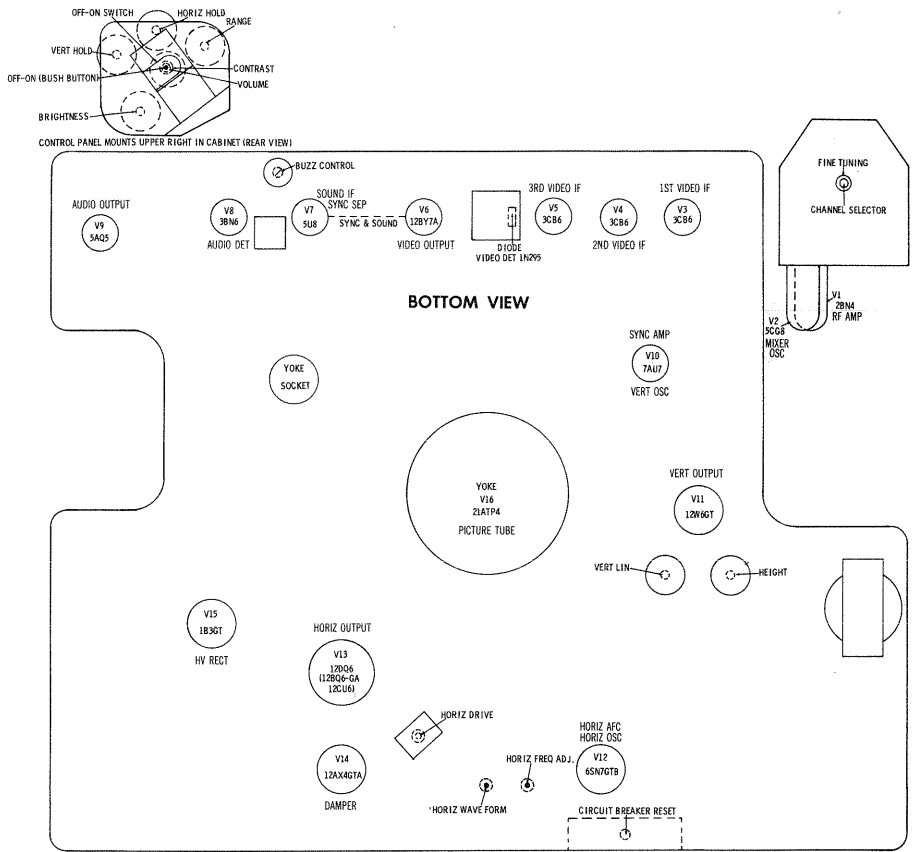




RESISTANCE MEASUREMENTS

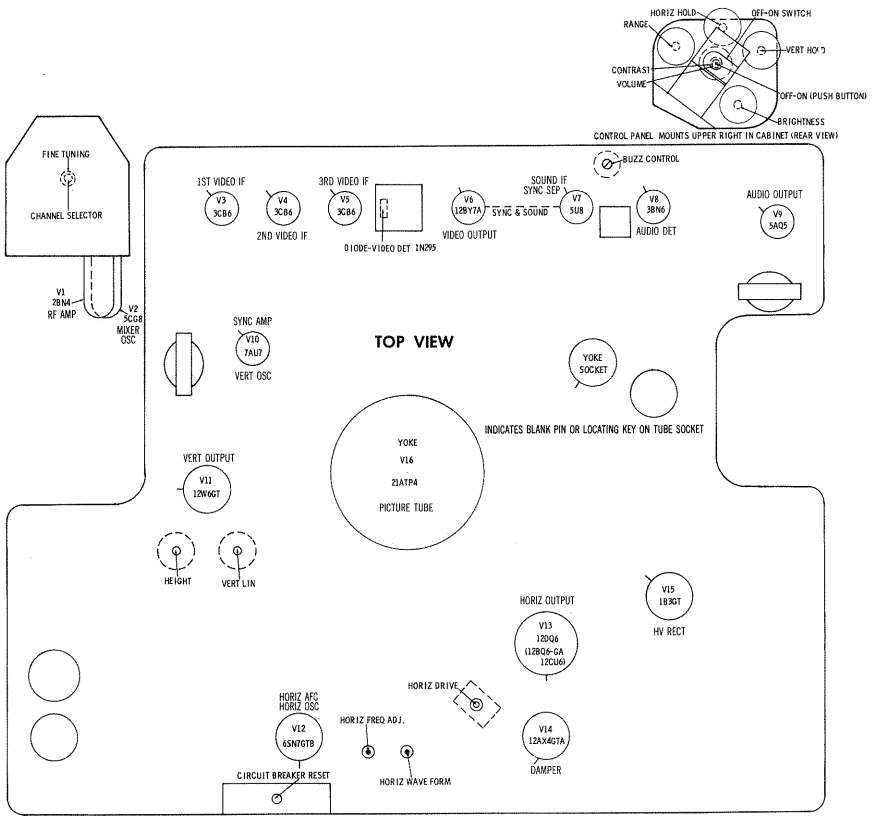
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	2BN4	0Ω	2Meg	1.5Ω	1Ω	† 2700Ω	0Ω	1Meg		
V2	5CG8	10K	† 8500Ω	0Ω	0Ω	1Ω	† 2700Ω	† 12K	0Ω	220K
V3	3CB6	1Meg	47Ω	5Ω	6Ω	† 5500Ω	† 5500Ω	0Ω		
V4	3CB6	1Meg	47Ω	6Ω	7Ω	† 5500Ω	† 5500Ω	0Ω		
V5	3CB6	.1Ω	180Ω	7Ω	8.5Ω	† 2200Ω	† 2200Ω	0Ω		
V6	12BY7A	• 300Ω	1Meg	0Ω	13Ω	13Ω	14Ω	† 3700Ω	† 1700Ω	0Ω
V7	5U8	† 820K	100K	† 150K	8.5Ω	10Ω	† 82K	0Ω	0Ω	2.2Meg
V8	3BN6	• 450Ω	3.4Ω	4.5Ω	5Ω	† 6500Ω	6Ω	† 330K		
V9	5AQ5	55Ω	330Ω	13Ω	10Ω	† 950Ω	† 500Ω	55Ω		
V10	7AU7	† • 2.3Meg	• 1.1Meg	22K	14Ω	14Ω	† 13K	38K	0Ω	15Ω
V11	12W6GT	TP	17Ω	† 400Ω	† 400Ω	2.2Meg	TP	15Ω	• 1000Ω	
V12	6SN7GTB	400K	† 56K	0Ω	1.5Meg	• † 55K	400K	3Ω	4.5Ω	
V13	12DQ6	NC	20Ω	TP	† 10K	470K	TP	17Ω	100Ω	TOP CAP † 10Ω
V14	12AX4GTA	TP	NC	†	NC	† 40Ω	NC	20Ω	22Ω	
V15	1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 305Ω
V16	21ATP4	1.5Ω	23K	PIN 6 † 100K	PIN 10 † 470K	PIN 11 170K	PIN 12 3Ω			

† MEASURED FROM OUTPUT OF M 2.
• MEASURED FROM PIN 3 OF V14.
THIS READING WILL VARY, CONTROL SET FOR NORMAL OPERATION.
THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
TP TIE POINT
NC NO CONNECTION



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

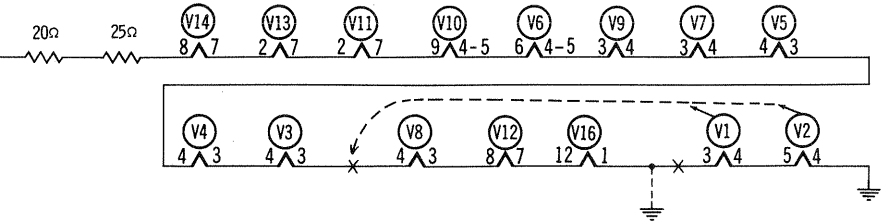
The following chart lists tubes whose failures are most likely to produce the indicated symptoms. Refer to tube placement chart for location and type of tube.

- POWER SUPPLY FAILURE**
No raster, no sound - Circuit Breaker (M10), Rectifier (M1, M2)
- LOSS OF PICTURE OR SOUND**
No pic, no sound, has raster - V3, V4, V5, Diode (M3), V6
No pic, no sound, has snow - V1, V2
No pic, has sound, has raster - V8, V16
Has pic, no sound - V7, V8, V9

- SYNC FAILURE**
No vert. sync - V7, V10
No horiz. sync - V7, V10, V12
No vert. or horiz. sync - V7, V10

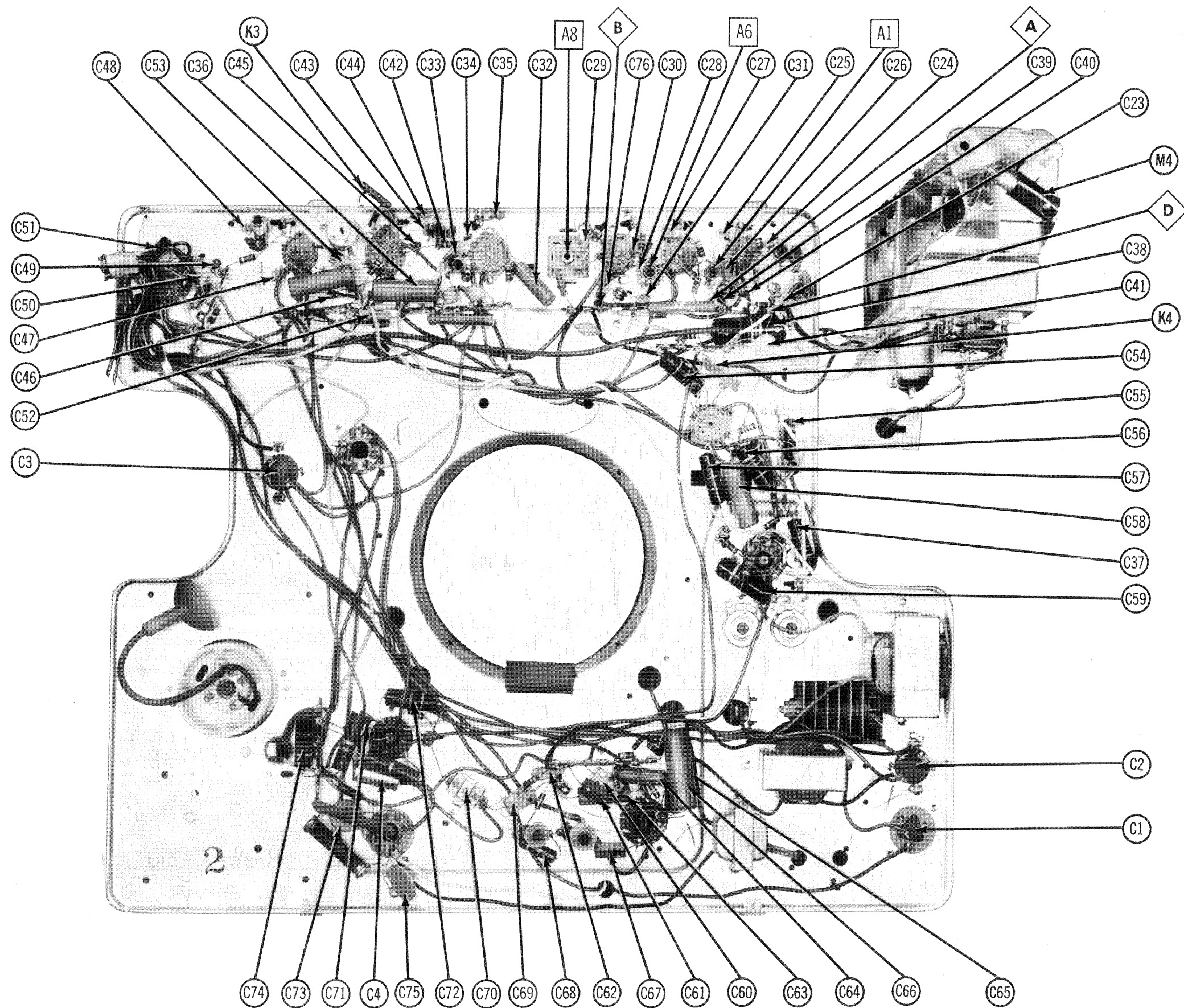
- SWEEP FAILURE**
No raster, has sound - V12, V13, V14, V15, V16
No vertical deflection - V10, V11
Poor vert. linearity or foldover - V10, V11
Poor horiz. linearity or foldover - V12, V13, V14
Narrow picture - V12, V13, V14, M1, M2
Vert. off freq. - V10
Horiz. off freq. - V12

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



CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B,
TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B,
TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A

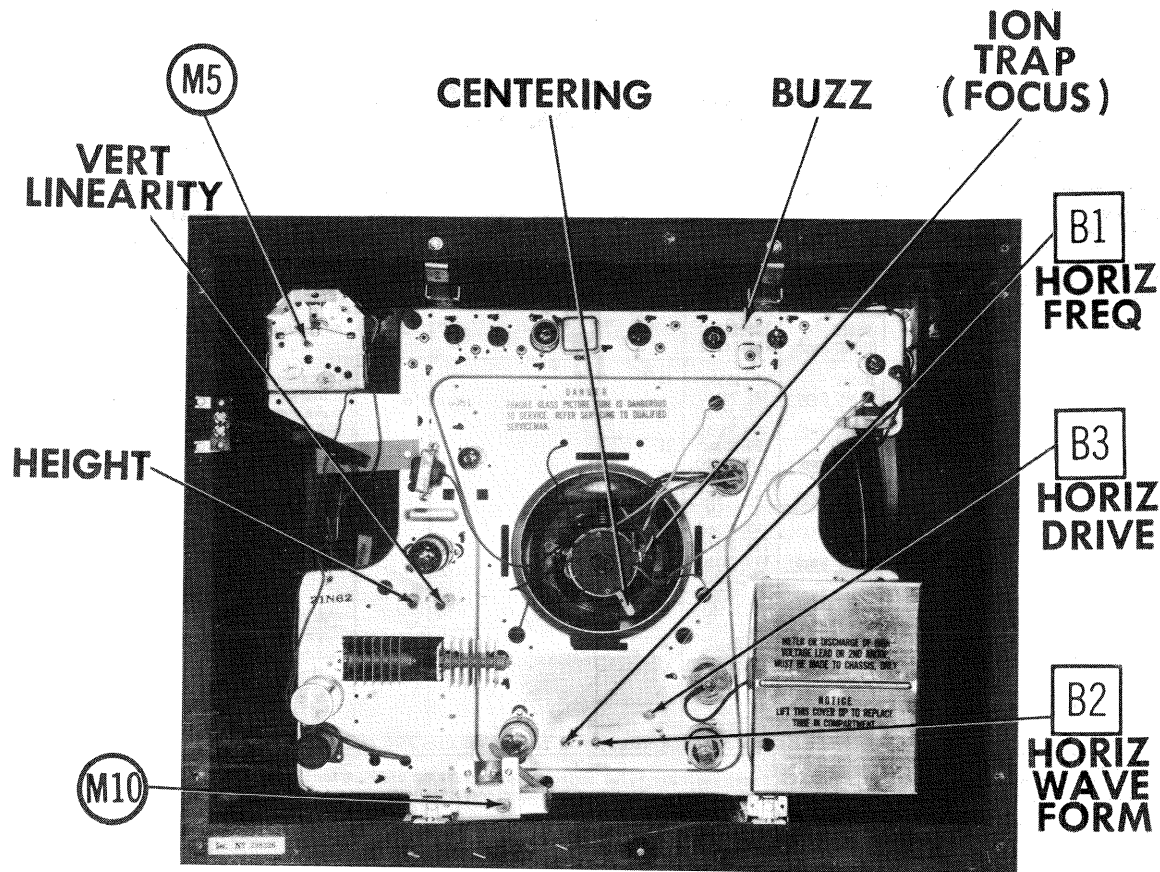
FOLDER 2



CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B,
TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B,
TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A

FOLDER 2



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably with a test pattern. Turn the horizontal hold control to the center of its range. Connect a short clip lead across the horizontal waveform coil (L15). Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally. Remove the clip lead from L15. Connect the vertical amplifier of the scope thru a low capacity probe to point \diamond . Low side to chassis.

Adjust the horizontal waveform slug (B2) for equal peaks of round and sharp peaks of waveform as in Fig. 6. While making this adjustment, keep the picture in sync with the horizontal hold control and B1. Adjust the horizontal drive trimmer (B3) clockwise as far as possible without the presence of vertical white lines or compression near the center of the picture.

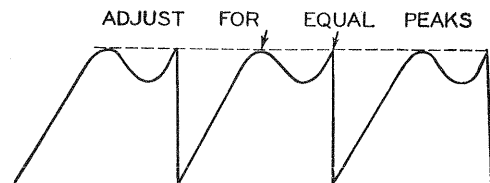
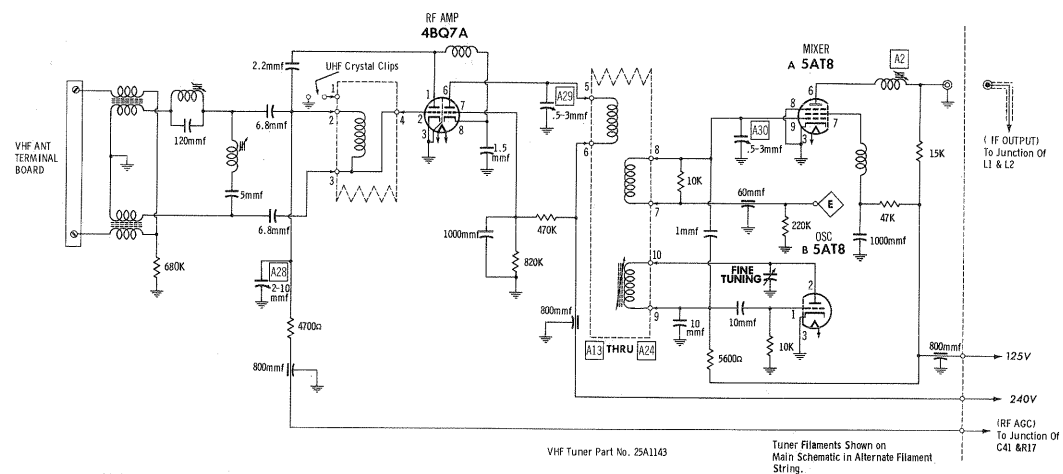
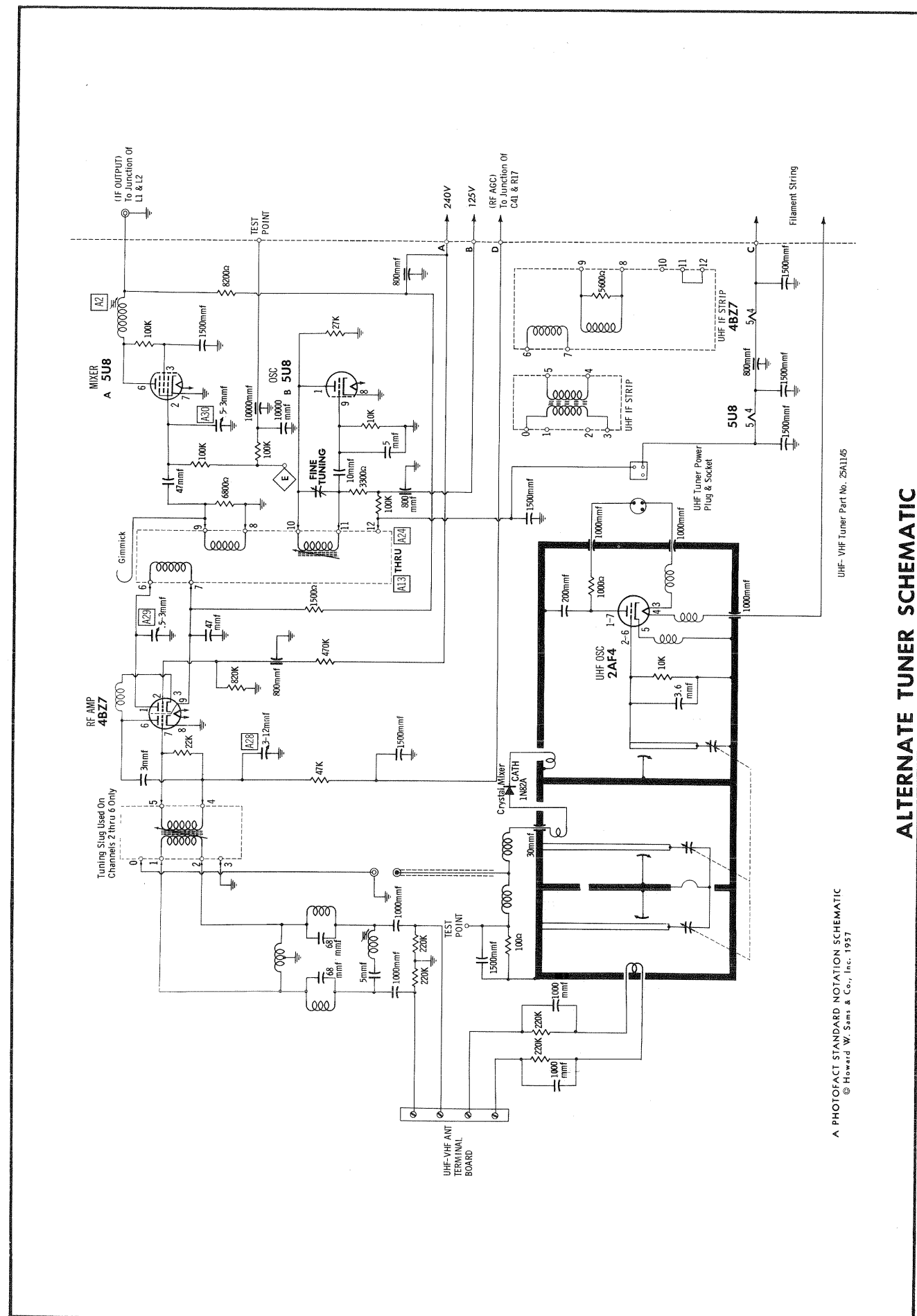


FIG. 6



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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ALTERNATE TUNER SCHEMATIC



UHF-VHF Tuner Part No. 25A1145

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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ALTERNATE TUNER SCHEMATIC



CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B,
TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B,
TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A

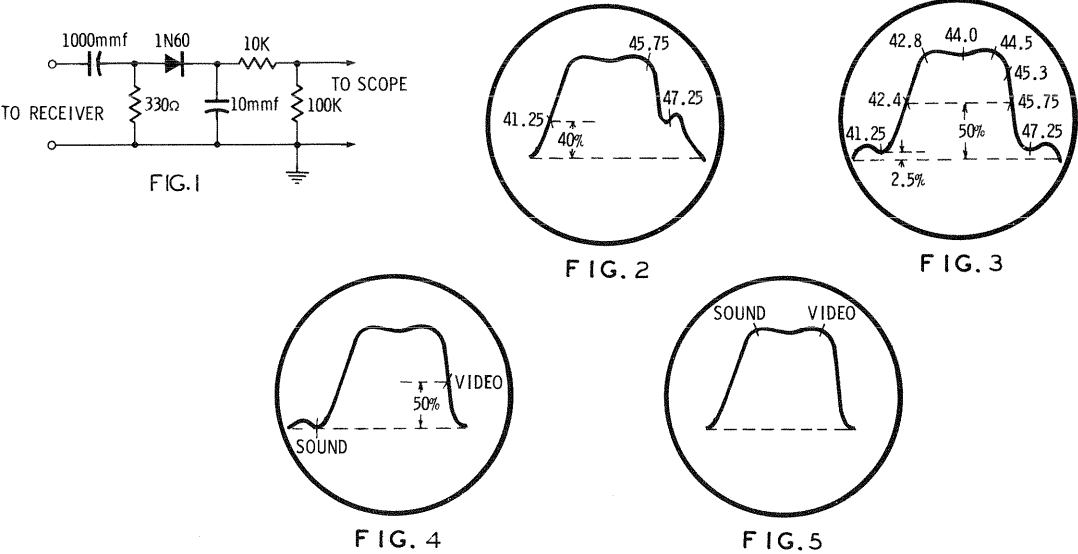
FOLDER 2

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
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 1.5 volts bias supply to point Δ . For steps 3 thru 7 increase bias at point Δ to 4.5 volts. 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. Use only enough sweep generator output to provide usable pattern on scope.							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Direct	High side to ungrounded tube shield floating over mixer-oscillator tube (V2). Low side to chassis	44.5MC (10MC Swp)	47.25MC	Any non-interfering channel	Vert. Amp. thru detector (Fig. 1) to pin 5 (plate) of 3CB6 (V3). Low side to chassis.	A1	Adjust to place marker in trap notch as in Fig. 2.
"	"	"	41.25MC 45.75MC	"	"	A2, A3, A4	Adjust for response curve similar to Fig. 2 with markers as indicated. A2 and A3 controls shape of curve top and positions 45.75MC marker. A3 positions 41.25MC marker. Both markers must be correctly positioned before proceeding with alignment.
"	"	"	42.8MC	"	Vert. Amp. thru 47K to point Δ . Low side to chassis.	A5	Adjust sweep output for 2 volts at point Δ . Adjust for maximum amplitude at marker.
"	"	"	41.25MC	"	"	A6	Adjust for MINIMUM amplitude at marker.
"	"	"	45.3MC	"	"	A7	Adjust for maximum amplitude at marker.
"	"	"	44.0MC	"	"	A8	"
"	"	"	41.25MC 42.4MC 42.8MC 44.0MC 44.5MC 45.3MC 45.75MC 47.25MC	"	"		Check for response curve similar to Fig. 3 with markers as indicated. If necessary SLIGHTLY retouch A1, and A4 thru A8 for desired response. DO NOT retouch A2 or A3.
SOUND IF ALIGNMENT							
Turn the set on and tune in a TV station. Reduce the signal strength at the antenna terminals by using an attenuator or similar device until a "Hiss" is heard in the sound. Adjust A9, A10, A11 and buzz control (R8) for maximum undistorted sound and MINIMUM buzz. If the hiss disappears during alignment, reduce signal strength still further.							
4.5MC TRAP ALIGNMENT							
Use 0-10 volt scale on VTVM.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
.001MFD	High side to pin 2 (grid) of 12BY7A (V6). Low side to chassis.	4.5MC (Unmod)	Any non-interfering	DC probe to pin 11 (cathode) of picture tube. Common to chassis.	A12	Adjust for MINIMUM deflection.	
VHF OSCILLATOR ALIGNMENT							
Connect the negative lead of 3 volt bias supply to point Δ . 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. Set the fine tuning control to the center of its range. Use only enough sweep generator output to provide usable pattern on scope.							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Two 120 Ω Carbon Resistors	Across antenna terminals with 120 Ω in each lead.	213MC (10MC Swp)	211.25MC	13	Vert. Amp. thru 47K to point Δ . Low side to chassis.	A13	Adjust to place sound marker in trap notch as in Fig. 4. Video marker should fall at 50%.
		207MC (10MC Swp)	205.25MC	12		A14	
		201MC (10MC Swp)	199.25MC	11		A15	
		195MC (10MC Swp)	193.25MC	10		A16	
		189MC (10MC Swp)	187.25MC	9		A17	
		183MC (10MC Swp)	181.25MC	8		A18	
		177MC (10MC Swp)	175.25MC	7		A19	
		85MC (10MC Swp)	83.25MC	8		A20	
		79MC (10MC Swp)	77.25MC	5		A21	
		69MC (10MC Swp)	67.25MC	4		A22	
		63MC (10MC Swp)	61.25MC	3		A23	
		57MC (10MC Swp)	55.25MC	2		A24	
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
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		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				
		57MC (10MC Swp)	59.75MC				

ALIGNMENT INSTRUCTIONS (cont)

VHF RF AND MIXER ALIGNMENT FOR TUNER #25A1148-D												
Connect bias as under "VHF Oscillator Alignment". 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. Use only enough sweep generator output to provide usable pattern on scope.												
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS					
Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	195MC (10MC Swp)	193.25MC 197.75MC	10	Vert. Amp. thru 10K to point  . Low side to chassis.	A25, A26	Adjust A25 and A26 for response similar to Fig. 5 with markers on shoulders of curve.					
"	"	195MC (10MC Swp)	193.25MC 197.75MC	"	"	A27	Adjust for MINIMUM amplitude.					
"	"	213MC (10MC Swp)	211.25MC 215.75MC	13	"		Check for response similar to Fig. 5. If markers fall below 70% on any channel, make compromise adjustment of A25 and A26 with channel switch set to that channel. Check all other channels to see that they have not been seriously affected.					
		207MC (10MC Swp)	205.25MC 209.75MC	12								
		201MC (10MC Swp)	199.25MC 203.75MC	11								
		189MC (10MC Swp)	187.25MC 191.75MC	9								
		183MC (10MC Swp)	181.25MC 185.75MC	8								
		177MC (10MC Swp)	175.25MC 179.75MC	7								
		85MC (10MC Swp)	83.25MC 87.75MC	6								
		79MC (10MC Swp)	77.25MC 81.75MC	5								
		69MC (10MC Swp)	67.25MC 71.75MC	4								
		63MC (10MC Swp)	61.25MC 65.75MC	3								
		57MC (10MC Swp)	55.25MC 59.75MC	2								
		VHF RF AND MIXER ALIGNMENT FOR TUNERS #25A1145 AND 25A1143										
		Connect bias as under "VHF Oscillator Alignment". 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. Use only enough sweep generator output to provide usable pattern on scope.										
		DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY				MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
		Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	207MC (10MC Swp)				205.25MC 209.75MC	12	Vert. Amp. thru 10K to point  . Low side to chassis.	A28, A29, A30	Adjust for response curve similar to Fig. 5, with markers above 90%.
"	"	213MC (10MC Swp)	211.25MC 215.75MC	13	"		Check for response similar to Fig. 5. If markers fall below 70% on any channel, make compromise adjustments of A28, A29, and A30 with channel switch set to that channel. Check all other channels to see that they have not been seriously affected.					
		201MC (10MC Swp)	199.25MC 203.75MC	11								
		195MC (10MC Swp)	193.25MC 197.75MC	10								
		189MC (10MC Swp)	187.25MC 191.75MC	9								
		183MC (10MC Swp)	181.25MC 185.75MC	8								
		177MC (10MC Swp)	175.25MC 179.75MC	7								
		85MC (10MC Swp)	83.25MC 87.75MC	6								
		79MC (10MC Swp)	77.25MC 81.75MC	5								
		69MC (10MC Swp)	67.25MC 71.75MC	4								
		63MC (10MC Swp)	61.25MC 65.75MC	3								
		57MC (10MC Swp)	55.25MC 59.75MC	2								
		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.										



CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B, TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B, TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A

FOLDER 2

PARTS LIST AND DESCRIPTIONS (Continued)
CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		CORONADO PART No.	CBS PART No.	SYLVANIA PART No.	
M3	1N295 *		1N60	1N80	Video Det. (Pigtail)

* A CK706 or 1N60 may be used in this application.

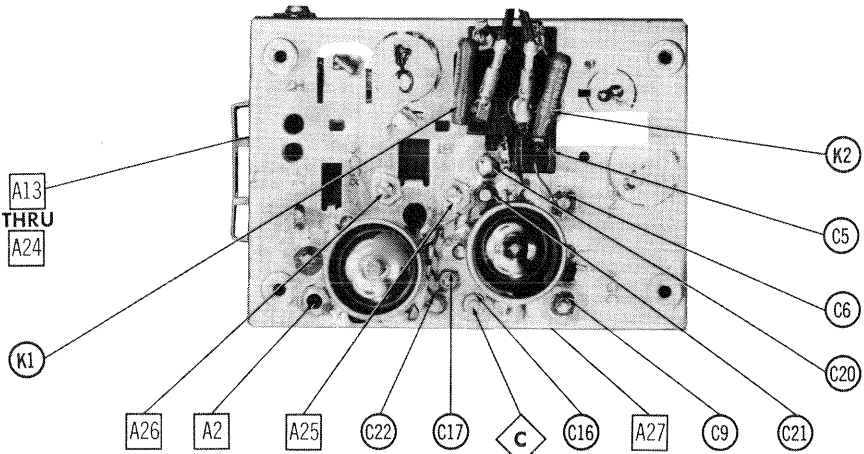
MISCELLANEOUS

ITEM No.	PART NAME	CORONADO PART No.	NOTES
M4	Dial Light	25A1148-D	#51 Type (A type #15 may be used in some versions)
M5	Tuner	25A1145	VHF
M6	Tuner	25A1143	UHF-VHF
M7	Video Det. Assy.	9A2370	VHF
M8	Switch	2A464	Includes 4th. Video IF, peaking coil, caps., M3
M9	Centering Device	2A435	On-off (Push type)
M10	Ion Trap	2A421	Includes rear yoke cover
	Circuit Breaker	2A461	

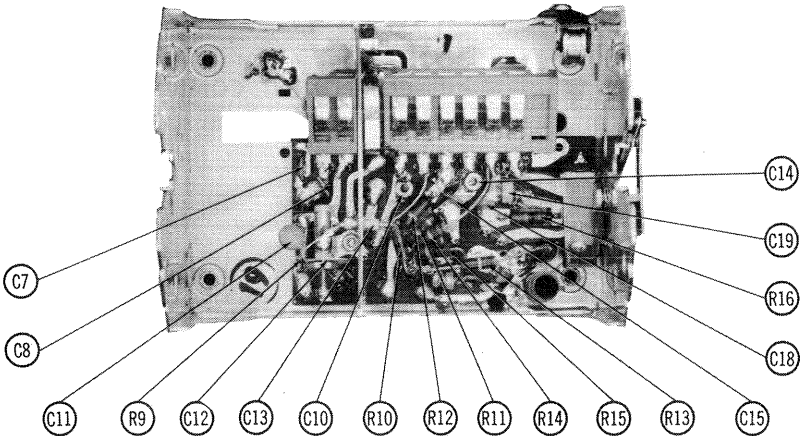
CABINETS & CABINET PARTS

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

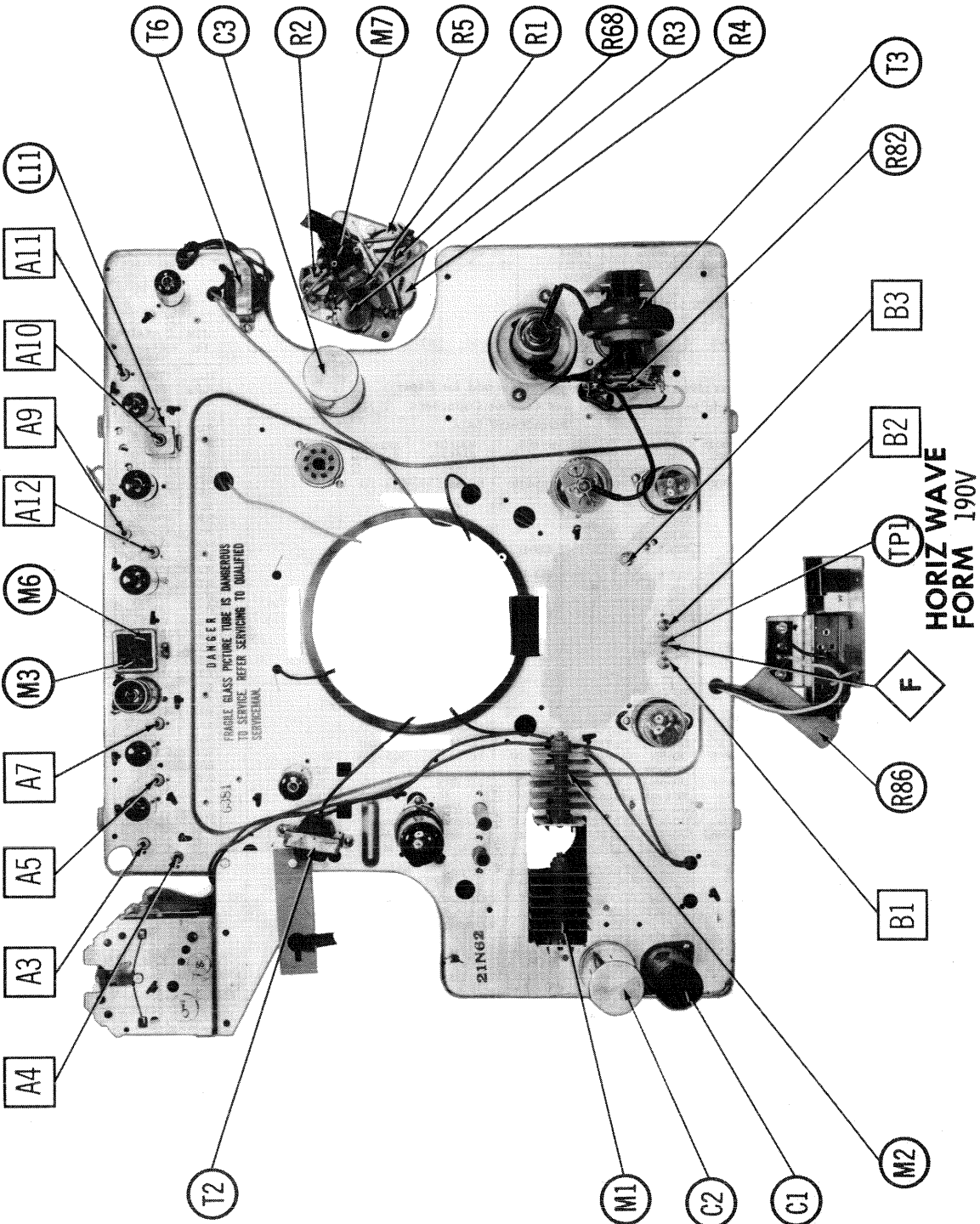
NAME	PART NO.	DESCRIPTION
Safety Glass	17X193-1	Tinted - Models TV2-9414A, 14B, 15A, 15B, 16A, 16B, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 21A, 21B
Safety Glass	17X192	Models TV2-9422A, 23A, 24A, 25A
Mask	4X1287-1	Models TV2-9422A, 23A, 24A, 25A
Mask	S-38A220	Models TV2-9414A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 21A, 21B
Leg	81X7-3	Mahogany
Leg	81X7-4	Blonde



RF TUNER TOP VIEW



RF TUNER BOTTOM VIEW



HORIZ WAVE
FORM 190V

CHASSIS TOP VIEW

CORONADO MODELS TV2-9414A, B, TV2-9415A, B, TV2-9416A, B, TV2-9417A, B,
TV2-9418A, B, TV2-9419A, B, TV2-9420A, B, TV2-9421A, B,
TV2-9422A, TV2-9423A, TV2-9424A, TV2-9425A

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amplifier	2BN4		V9	Audio Output	5AQ5	
V2	Mixer-Oscillator	5CG8		V10	Sync Amp. -Vert. Osc.	7AU7	
V3	1st. Video IF Amp.	3CB6		V11	Vert. Output	12W6GT	
V4	2nd. Video IF Amp.	3CB6		V12	Horiz. AFC-Horiz. Osc.	6SN7GTB	
V5	3rd. Video IF Amp.	3CB6		V13	Horiz. Output	12DQ6	
V6	Video Output	12BY7A		V14	Damper	12AX4QTA	
V7	Sound IF Sync Sep.	5U8		V15	HV Rectifier	1B3GT	
V8	Audio Det.	3BN6					

Note 1. Some versions may use a 12CU6 or 12BQ6GA in this application.

PICTURE TUBE

ITEM No.	CORONADO PART No.	REPLACEMENT DATA GENERAL ELECTRIC PART No.	SYLVANIA PART No.	NOTES
V16	2IATP4	2IATP4/ 2IATP4A ①	2IATP4 ② 2IATP4A ② 2IATP4A ②	① Aluminized ② Silver screen '85"

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP. VOLT.	REPLACEMENT DATA CORONADO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	140	45X421	AFHSL-23	XA0281	FP17	TMS-24	MT-15150	TVL-1428
C2A	125	45X431	AFH4-0260	DO046	FP218	TMT-26		R2376 *
C2B	250				TC36			
C2C	50							
C3A	125	45X420	AFH3-99-82	DO040	FP375.4			TVL-3574.6
C3B	250			BR505	TC80			
C3C	40							
C4	50	45X418	PR550V5	BBR5-50	TC30	TD-5-50	MT-0504	TVA-1303

* Non-catalog item.

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 CAP. VOLT.	REPLACEMENT DATA CORONADO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C5	120		BPD-00012	DD-121	LI0T12	ED-120	UC-5312	5GA-T12
C6	30							
C7	28							
C8	12							
C9	1000		EF-001	MFT-1000				
C10	1-4.5			829-6				
C11	5.0							
C12	1.5-4.5			829-6				
C13	47							
C14	1-4.5			829-6				
C15	47							
C16	30							
C17	1000		EF-001	MFT-1000				
C18	6.8							
C19	6.8							
C20	1000		EF-001	MFT-1000				
C21	1000		EF-001	MFT-1000				
C22	1000		EF-001	MFT-1000				
C23	47	47X603	SI 47	D6-470	LT6Q47	ED-47	UC-5447	5GA-Q47
C24	47	47X603	SI 47	D6-470	LT6Q47	ED-47	UC-5447	5GA-Q47
C25	680	80X5	BPD-00068	DD-681	LI0T68	ED-680	UC-5368	5GA-T68
C26	56		NP0-SI 56	TCZ-56	CI0Q56C	TCO-56		
C27	680	80X5	BPD-00068	DD-681	LI0T68	ED-680	UC-5368	5GA-T68
C28	68		NP0-SI 68	TCZ-68	CI0Q68C	TCO-68		
C29	680	80X15	BPD-00068	DD-681	LI0T68	ED-680	UC-5368	5GA-T68
C30	470		BPD-00047	DD-471	BYA10T47	ED-470	UC-5347	5GA-T47
C31	680	80X1	BPD-00068	DD-681	LI0T68	ED-680	UC-5368	5GA-T68
C32	.047	200	RCPI0M2473M	BPD-05	DF-503	CUB2S47	GEM-2147	2TM-S47
C33	30		47X669					
C34	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C35	47		47X603	DD-470	LT6Q47	ED-47	UC-5447	5GA-Q47
C36	.1	400	RCPI0M4104M	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1
C37	.047	200	RCPI0M2473M	BPD-05	DF-503	CUB2S47	GEM-2147	2TM-S47
C38	.47	200	RCPI0M2474M	P288N-47		CUB2P47	GEM-2047	2TM-P47
C39	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C40	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C41	10000		47X595	BPD-01	DD-103	BYA6S1	ED-1000	5HK-D1
C42	1.5		47X584	NP0-SI 1.5	TCZ-1R5			
C43	22		47X671					
C44	100		80X8					
C45	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C46	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C47A	1000		80X3	BPD-2X001	DD2-102	BYC6DD1	ED2-001	5HK-2D1
C48	15		47X672					
C49	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C50	5000		47X507	BPD-005	DD-502	BYA10D5	ED-005	5HK-D5
C51	.0047	600	RCPI0M6472M	BPD-0047	D6-472	CUB6D47	GEM-6247	6TM-D47
C52	330		47X570	IR5T33	1464-00033			
C53	5000		47X507	BPD-005	DD-502	BYA10D5	ED-005	5HK-D5
C54	.047	400	RCPI0M4473M	BPD-05	DF-503	CUB4S47	GEM-4147	4TM-S47
C55	.01	400	RCPI0M4103M	BPD-01	DF-103	CUB4S1	GEM-41	4TM-S1
C56	.047	400	RCPI0M4473M	BPD-05	DF-503	CUB4S47	GEM-4147	4TM-S47
C57	.022	200	RCPI0M2223M	BPD-02	DF-203	CUB2S22	GEM-2122	2TM-S22
C58	.1	400	RCPI0M4104M	P488N-1	DF-104	CUB4P1	GEM-401	4TM-P1
C59	.047	600	RCPI0M6473M	BPD-05	DF-503	CUB6S47	GEM-6147	6TM-S47
C60	18		RCM20B180K	1464-00018		IR5Q18	MS-418	
C61	82		RCM20B82K	1464-00082		IR5Q82	MS-482	
C62	100		RCM20B101K	1464-000101		IR5T101	MS-31	
C63	.047	400	RCPI0M4473M	BPD-05	DF-503	CUB4S47	GEM-4147	4TM-S47
C64	.047	200	RCPI0M2473M	BPD-05	DF-503	CUB2S47	GEM-2147	2TM-S47
C65	.022	200	RCPI0M2223M	BPD-02	DF-203	CUB2S22	GEM-2122	2TM-S22
C66	.47	200	RCPI0M2474M	P288N-47		CUB2P47	GEM-2047	2TM-P47
C67	220		RCM20B221K	1464-00022		IR5T22	MS-322	
C68	.01	400	RCPI0M4103M	BPD-01	DF-103	CUB4S1	GEM-41	4TM-S1
C69	820		RCM20B821K	1464-00082		IR5T82	MS-382	
C70	170		17A271					
C71	1000		80X1	BPD-001	DD-102	BYA6D1	ED-1000	5HK-D1
C72	.047	400	RCPI0M4473M	BPD-05	DF-503	CUB4S47	GEM-4147	4TM-S47
C73	56	5000	47X755	DD60-560				
C74	.047	400	RCPI0M4473M	BPD-05	DF-503	CUB4S47	GEM-4147	4TM-S47
C75	10000		47X615	BPD-01	DD-103	BYA6S1	ED-01	5HK-S1

PARTS LIST AND DESCRIPTIONS

CAPACITORS (cont)

ITEM No.	RATING CAP. VOLT.	REPLACEMENT DATA CORONADO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C76A	1000		80X3	BPD-2X001	DD2-102	BYC6DD1	ED2-001	DCD521	5HK-2D1
C76B	1000								

Note 1. Some versions use a 560MMF in this application.
Note 2. Some versions use a 1000MMF in this application.

CONTROLS

ITEM No.	RATING RESIST-ANCE WATTS	REPLACEMENT DATA CORONADO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	1000Ω		78X25				Contrast
R1B	1Meg						Volume
R2A	500K		40X416	AB-59	A47-500K-S	Q11-133	Brightness
R2B	500K			AK-8	RS-3/16	NQ	
R3A	1.5Meg		40X415	AB-742	A47-1.5Meg-S	Q11-138	Vert. Hold
R3B	50K			AK-8	RS-3/16	NQ	
R4A	50K		40X414	AB-31	A47-50K-S	Q11-123	Horiz. Hold
R4B	50K			AK-8	RS-3/16	NQ	
R5	*8.5Meg		40X417				
R6A	2.5Meg		40X398	BX-83	A47-2.5Meg-S	Q11-239	Height
R6B	2.5Meg			Not Req.	FKS-1/2	TQ	
R7A	1500Ω		40X399	B-6	A47-1500-S	Q11-109	Vert. Lin.
R7B	1500Ω			Not Req.	FKS-1/2	TQ	
R8	500Ω		40X397		39-500		Buzz

* The resistance of this control will vary from 7 to 10 megs.

RESISTORS

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

ITEM No.	RATING		REPLACEMENT DATA		NOTES	ITEM No.	RATING		REPLACEMENT DATA		NOTES
			CORONADO PART No.	IRC PART No.					CORONADO PART No.	IRC PART No.	
	OHMS	WATT									
R9	4700Ω			BTS-4700		R48	2.2Meg		B84225	BTS-2.2Meg	
R10	1000Ω			BTS-1000		R49	820K		B84824	BTS-820K	
R11	3900Ω			BTS-3900		R50	680K		B84684	BTS-680K	
R12	220K			BTS-220K		R51	47K		B84473	BTS-47K	
R13	1000Ω			BTS-1000		R52	6800Ω		B84682	BTS-6800	
R14	6800Ω			BTS-6800		R53	4700Ω		B84474	BTS-4700	
R15	10K			BTS-10K		R54	680K		B84684	BTS-680K	
R16	10K			BTS-10K		R55	470K		B84474	BTS-470K	
R17	2.2Meg		B84225			R56	22K		B84223	BTS-22K	
R18	5600Ω		B84562			R57	470K		B84474	BTS-470K	
R19	470Ω		B85471	BTS-470		R58	2.2Meg		B84225	BTS-2.2Meg	
R20	5000Ω	4	43X332	PW4-5000		R59	100Ω		B84101	BTS-100	
R21	47Ω 5%		B83470	BTS-47 5%		R60	8200Ω		B84822	BTS-8200	
R22	68K		B84683			R61	15K		B85153	BTS-15K	
R23	1000Ω		B85102			R62	680Ω	1	C84681	BTA-680	
R24	470Ω		B85471	BTS-470		R63	560Ω				
R25	47Ω 5%		B83470	BTS-47 5%		R64	560Ω				
R26	47K		B84473			R65	220K		B84224		
R27	22K		B84223	BTS-22K		R66	330K		B84334		
R28	470Ω		B85471	BTS-470		R67	820K		B84824		
R29	180Ω		B84181	BTS-180		R68	120K		B84124		
R30	1Meg		B84105	BTS-1Meg		R69	47K		B84473	BTS-47K	
R31	3900Ω		B84392	BTS-3900		R70	82K		B84823		
R32	1Meg		B84105	BTS-1Meg		R71	330K		B84334		
R33	22K		B84223	BTS-22K		R72	3900Ω		B84392		
R34	3600Ω	4	43X331			R73	82K		B84823		
R35	47Ω		B84470	BTS-47		R74	22K		B84223		
R36	100K		B85104	BTS-100K		R75	10K		B85103	BTS-10K	
R37	180K		B84184	BTS-180K		R76	1Meg		B84105	BTS-1Meg	
R38	1.5Meg		B84155	BTS-1.5Meg		R77	56K		B84563	BTS-56K	
R39	100K		B84104	BTS-100K		R78	68Ω		B85680	BTS-68	
R40	68K		B84683	BTS-68K		R79	470K		B84474	BTS-470K	
R41	82K		B84823	BTS-82K		R80	10K	2	D84103	BTB-10K	
R42	680Ω		B84681	BTS-680		R81	100Ω	2	D84101	BTB-100	
R43	330K		B84334	BTS-330K		R82	5600Ω		B84562	BTS-5600	
R44	4700Ω		B84472			R83	1700Ω	10	43X294	1 3/4A-1750	
R45	470Ω	1	C85471	BTA-470		R84	25Ω	10	43X290	PW10-25	
R46	330Ω	1	C84331	BTA-330		R85	20Ω		43X329		
R47	150K		B84154	BTS-150K		R86	6.5Ω	10	43X289		