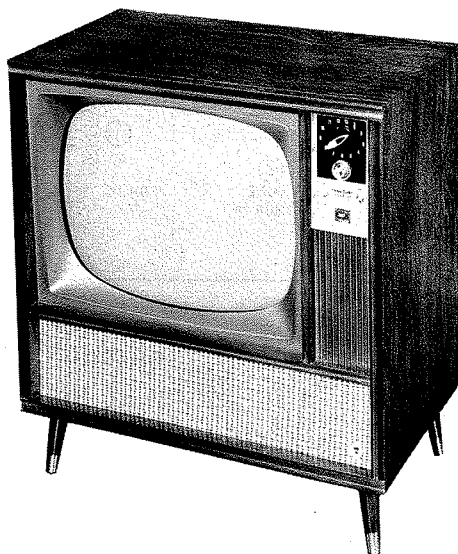


PHOTOFACT® Folder



CORONADO MODELS TV2-9533A,-9596A,-9598A,-9600A,-9602A,-9604A,-9606A,-9608A,-9610A,-9612A

CORONADO MODELS TV2-9533A,-9596A,-9598A,-9600A,-9602A,-9604A,-9606A,-9608A,-9610A,-9612A



MODEL TV2-9600A

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS.

Care should be exercised when connecting test equipment or physically contacting chassis. Isolation devices employed by manufacturer should be checked and properly connected before returning receiver to owner.

TRADE NAME	CORONADO MODELS TV2-9533A, TV2-9596A, TV2-9598A, TV2-9600A, TV2-9602A, TV2-9604A, TV2-9606A, TV2-9608A, TV2-9610A, TV2-9612A
SUPPLIER	Gamble-Skogmo, Inc., 15 North 8th Street, Minneapolis, Minnesota
TYPE SET	Television Receiver
TUBES	VHF - Fourteen, UHF - Fifteen
POWER SUPPLY	110-120 Volts AC, 60 Cycle
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

Remove 5 screws holding the trim strip at the top edge of the safety glass. Tilt glass out and remove.

FUSE DEVICE

A 7.5Ω fusible resistor is used for low voltage power supply protection. (For location, see "Tube Placement Chart".)

TUNER OSCILLATOR ADJUSTMENT

To touch up the VHF Oscillator, remove Channel Selector and Fine Tuning knobs.

AGC

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

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The Horizontal Frequency slug is used for the Horizontal Hold. (For location, see "Tube Placement Chart".)

HORIZONTAL DRIVE

The horizontal drive may be varied by a Horizontal Drive trimmer. (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.

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 KA234R

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CORONADO MODELS TV2-9533A,-9596A,-9598A,-9600A,-9602A,-9604A,-9606A,-9608A,-9610A,-9612A

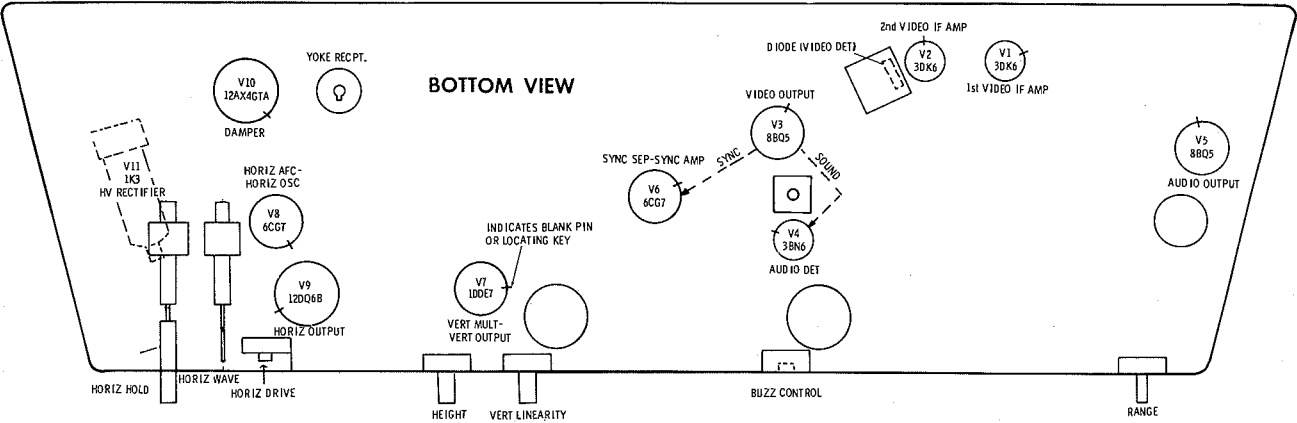
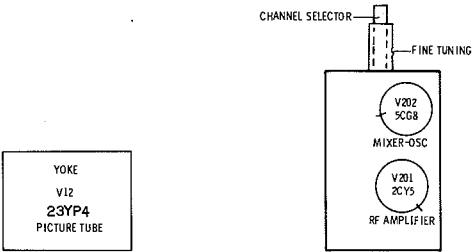
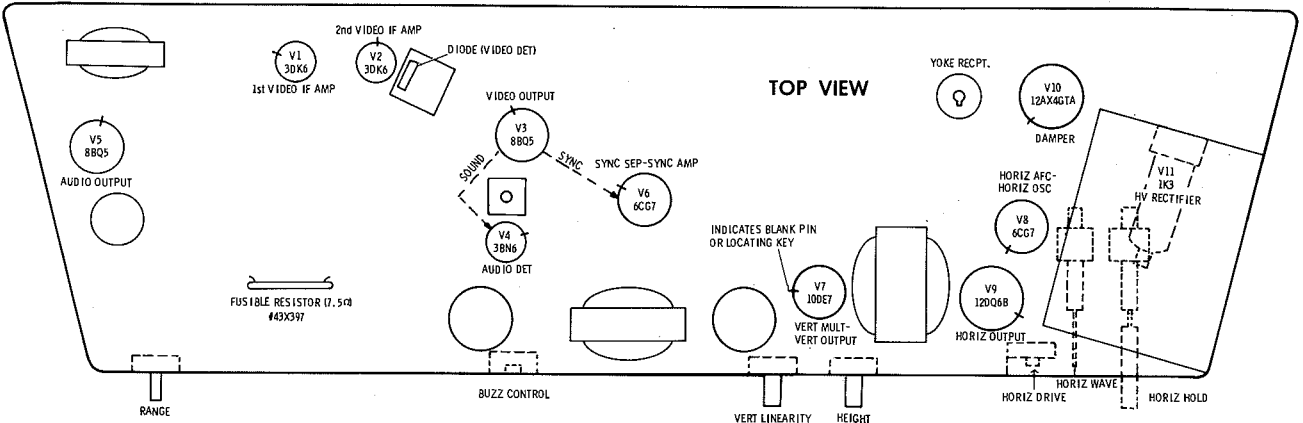
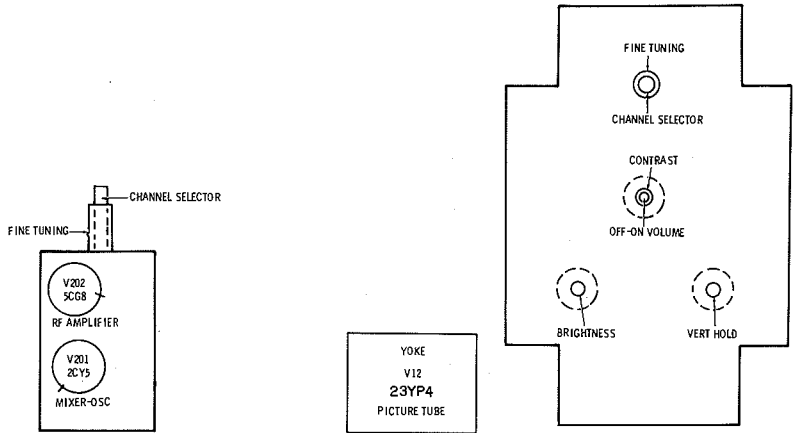


RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3DK6	• 800K	56Ω	60Ω	55Ω	† 10K	† 10K	0Ω		
V2	3DK6	0Ω	150Ω	55Ω	50Ω	† 3000Ω	† 3000Ω	0Ω		
V3	8BQ5	NC	1meg	• 90Ω	90Ω	80Ω	NC	† 3600Ω	NC	† 2500Ω
V4	3BN6	• 150Ω	6Ω	45Ω	50Ω	† 7200Ω	6Ω	† 330K		
V5	8BU5	100Ω	NC	150Ω	100Ω	90Ω	NC	† 930Ω	NC	† 520Ω
V6	6CG7	† 1.5meg	2.2meg	0Ω	75Ω	80Ω	† 13K	47K	0Ω	0Ω
V7	10DE7	† 405Ω	NC	1.5meg	60Ω	75Ω	• † 3meg	• 200K	0Ω	• 2200Ω
V8	6CG7	† 56K	340K	0Ω	25Ω	20Ω	† 52Ω	1.4meg	350K	0Ω
V9	12DQ6B	TP	32Ω	TP	† 95K	1meg	NC	45Ω	0Ω	TOP CAP † 8Ω
V10	12AX4GT	TP	NC	†	NC	† 52Ω	TP	7Ω	20Ω	
V11	1K3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 400Ω
V12	23YP4	32Ω	• 32K	Pin 6 † 100K	Pin 10 † 10meg	Pin 11 • 320K	Pin 12 25Ω			
V201	2CY5	• 10K	0Ω	5Ω	7Ω	† 2500Ω	† 12K	0Ω		
V202	5CG8	15K	† 12K	0Ω	5Ω	0Ω	† 5000Ω	† 50K	0Ω	242K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

- THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
- † THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
- MEASURED FROM OUTPUT OF M1.
- NC NO CONNECTION
- MEASURED FROM PIN 3 OF V10.
- TP TIE POINT

TUBE PLACEMENT CHART



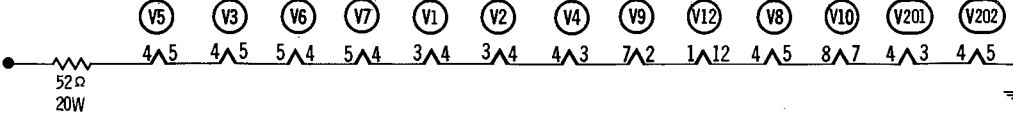
TUBE PLACEMENT CHART

TUBE FAILURE CHECK CHART

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

- POWER SUPPLY FAILURE**  
No raster, no sound: Fusible Resistor, Rectifiers (B+)
- LOSS OF PICTURE OR SOUND**  
No pic, no sound, has raster: V1, V2, Diode (Video Det.), V3  
No pic, no sound, has snow: V201, V202  
No pic, has sound, has raster: V3  
Has pic, no sound: V4, V5
- SWEEP FAILURE**  
No raster, has sound: V8, V9, V10, V11, V12  
No vertical deflection: V7  
Poor vert. linearity or foldover: V7  
Poor horiz. linearity or foldover: V8, V9, V10  
Narrow picture: V9, V10, Rectifiers (B+)  
Vert. off freq.: V7  
Horiz. off freq.: V8
- SYNC FAILURE**  
No vert. sync: V6  
No horiz. sync: V6  
No vert. or horiz. sync: V6

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



CORONADO MODELS TV2-9533A, -9596A, -9598A, -9600A, -9602A, -9604A, -9606A, -9608A, -9610A, -9612A

FOLDER 1

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.  
Suggested Alignment Tools: GENERAL CEMENT #8606, 8606L, 8282, 9295  
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the negative lead of a 7 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.

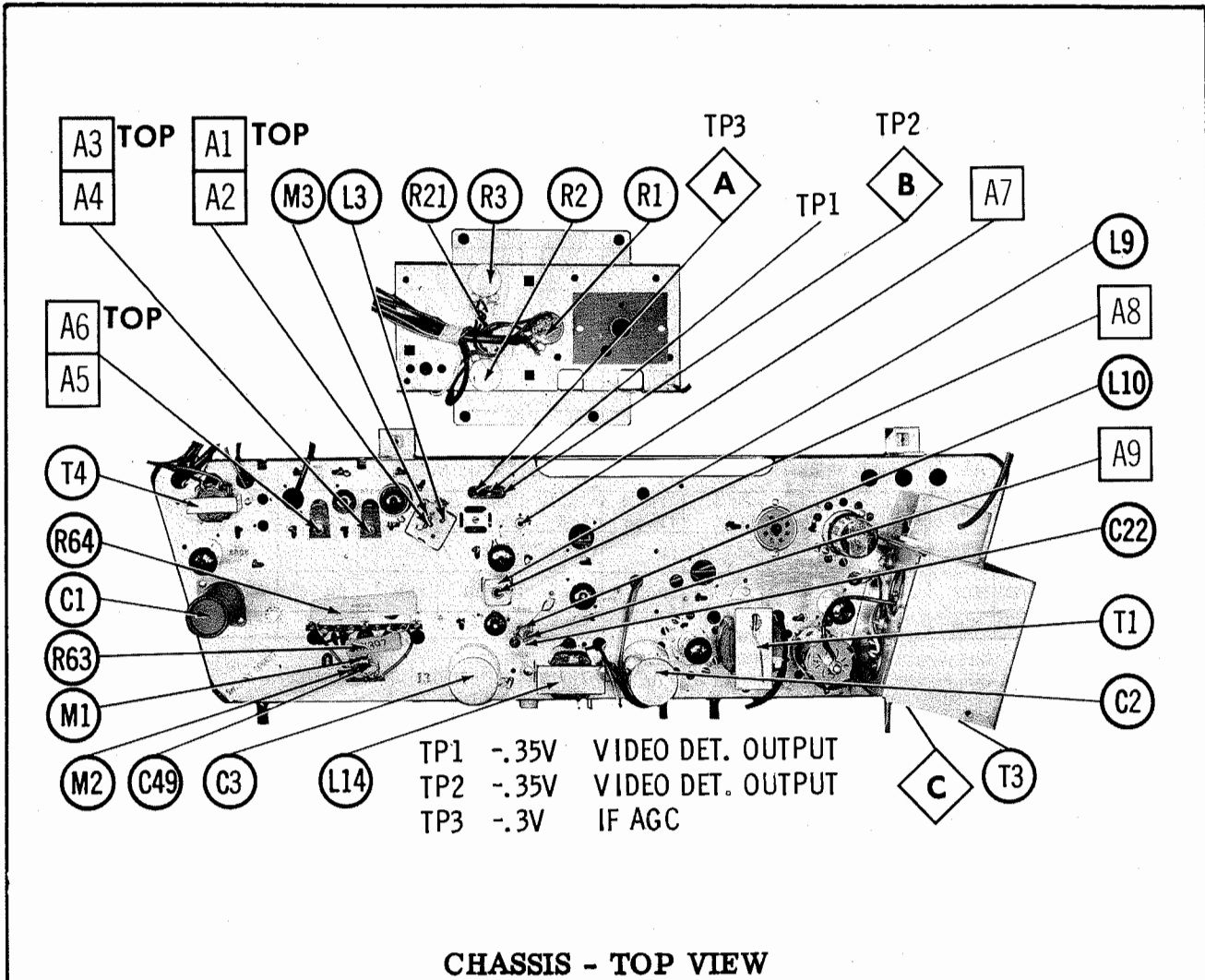
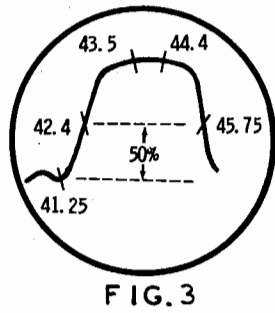
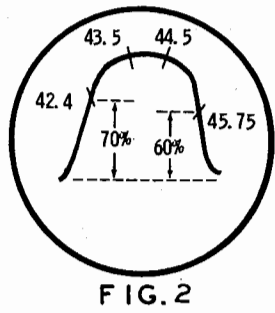
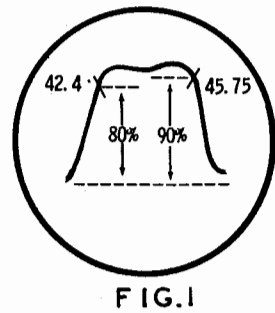
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .01mfd	High side to pin 1 (grid) of 2nd Video IF. Low side to chassis. Adjust output for 4VP-P on scope.	44.0MC (10MC Swp)	42.4MC 45.75MC	Any non-interfering channel	Vert. Amp. thru 47K to point $\diamond$ . Low side to chassis. (Across Video Det. load)	A1, A2	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. A1 controls marker position and A2 controls gain and symmetry.
2. "	High side to pin 1 (grid) of 1st Video IF. Low side to chassis. Adjust for 4VP-P on scope.	"	42.4MC 43.5MC 44.5MC 45.75MC	"	"	A3, A4	Adjust for maximum gain and symmetry of response similar to Fig. 2 with markers as shown. A3 controls marker position and A4 controls gain and symmetry.
3. Direct	Place a thin insulated metal strip between the Mixer-Osc. tube (V202), and tube shield. Connect the high side of sweep generator to the metal strip. Low side to chassis.	"	41.25MC 42.4MC 43.5MC 44.5MC 45.75MC	"	"	A5, A6, & Mixer Plate Coil	Adjust for maximum gain and symmetry of response similar to Fig. 3 with markers as shown. Adjust A5 to place 41.25MC marker in trap notch.

4.5MC TRAP ALIGNMENT

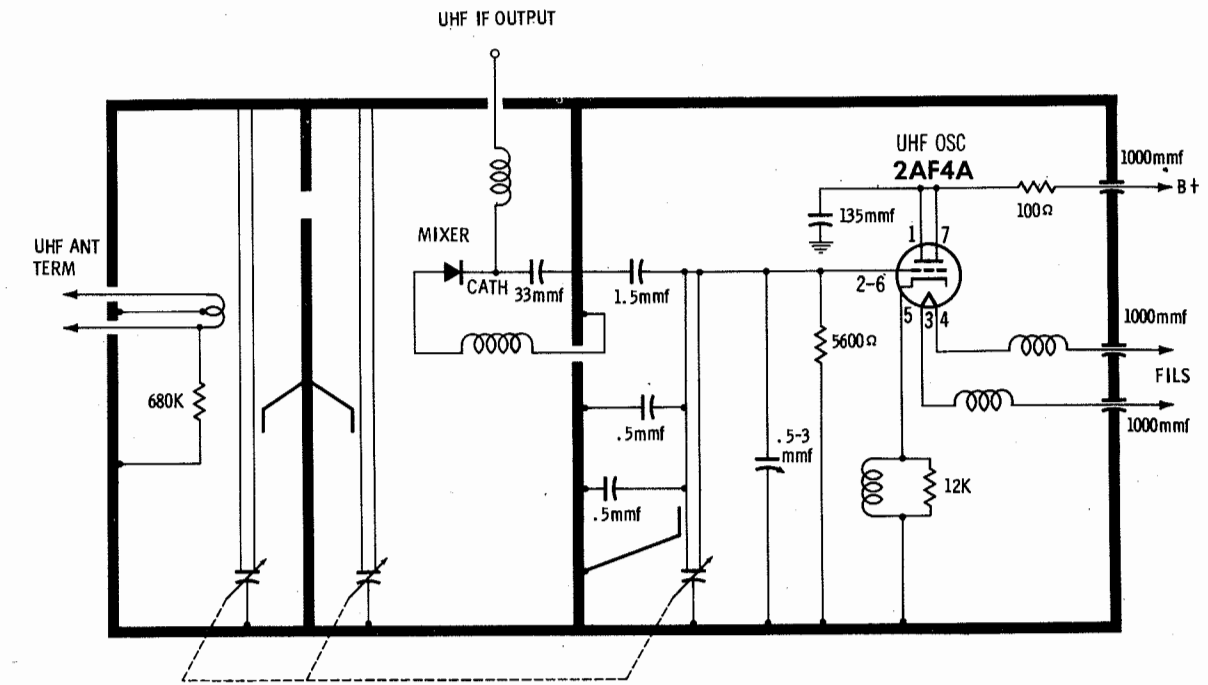
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. .01mfd	High side to pin 2 (grid) of Video Output. Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	AC probe to pin 11 (cathode) of picture tube. Common to chassis. Use 0-10V AC scale.	A7	Adjust for MINIMUM deflection.

SOUND IF ALIGNMENT

Tune in a TV station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound similar to super-regeneration.  
Adjust A8, A9 and the Buzz control for maximum undistorted sound with MINIMUM buzz.  
If the hiss disappears during adjusting, further reduce the signal strength.



CHASSIS - TOP VIEW



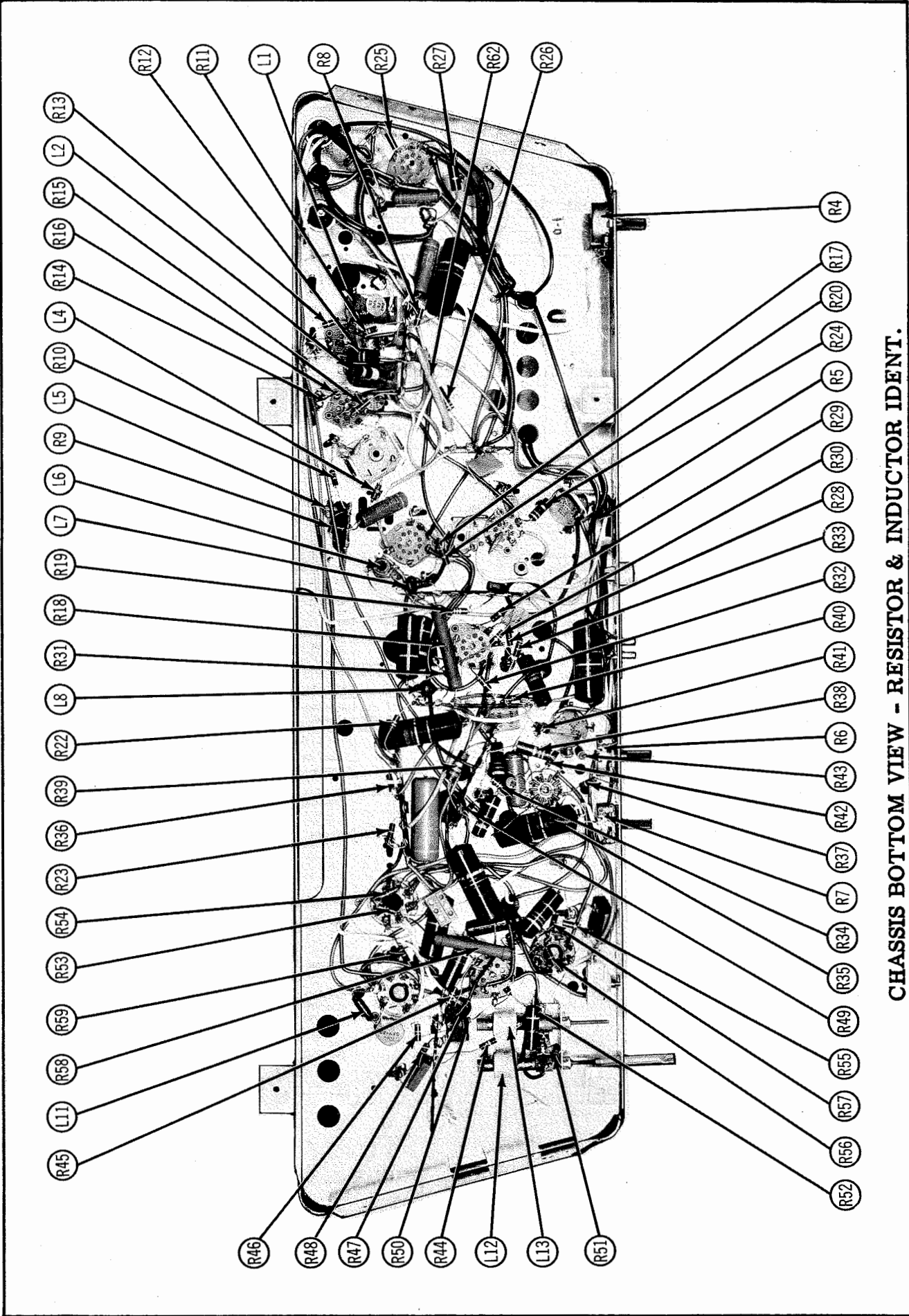
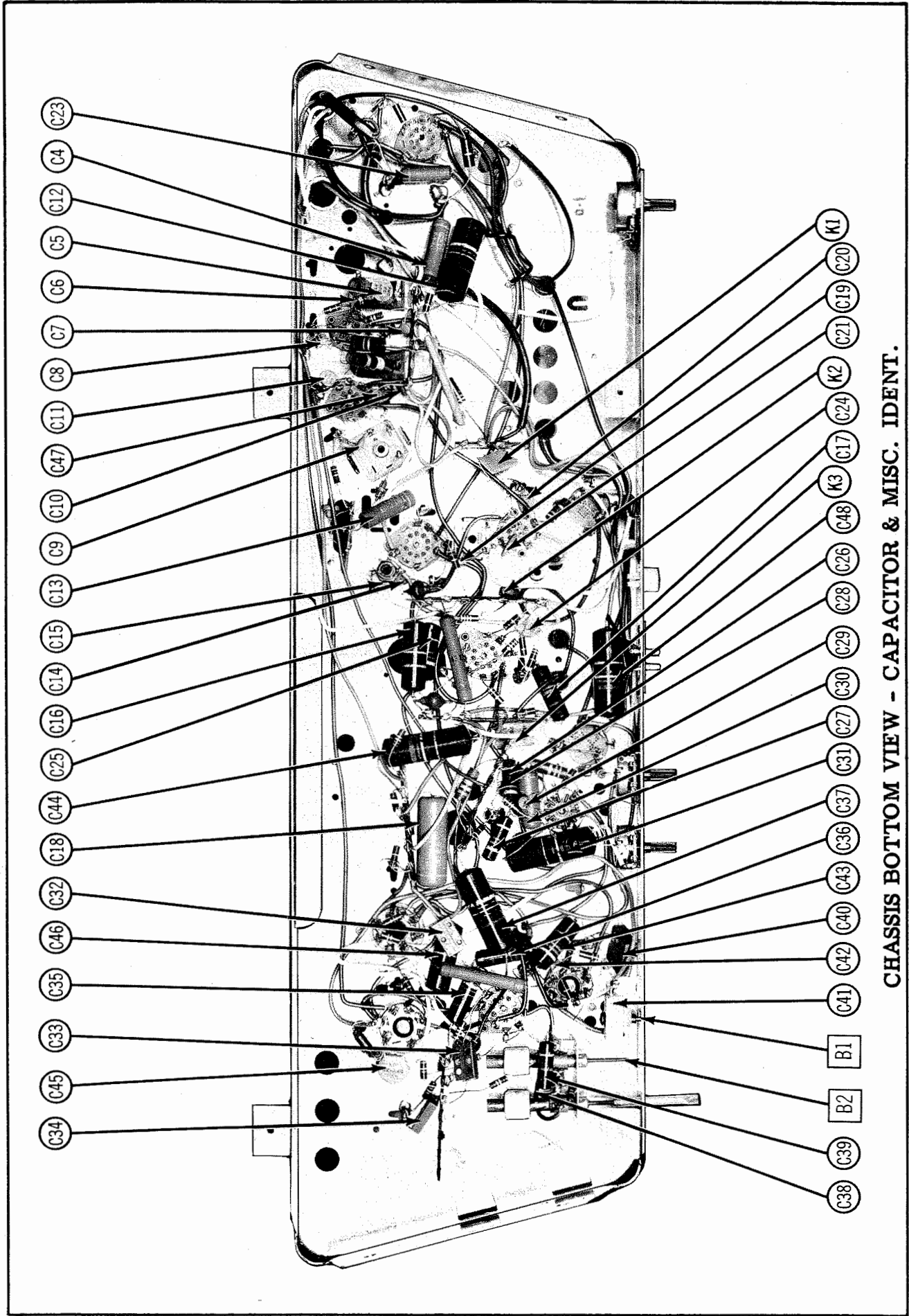
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
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UHF TUNER 25A1193-1

CORONADO MODELS TV2-9533A, -9596A, -9598A, -9600A, -9602A, -9604A, -9606A, -9608A, -9610A, -9612A

FOLDER 1





CORONADO MODELS TV2-9533A, -9596A, -9598A, -9600A, -9602A, -9604A, -9606A, -9608A, -9610A, -9612A  
CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

## PARTS LIST AND DESCRIPTIONS

## CONTROLS (cont)

ITEM No.	RATING	REPLACEMENT DATA					INSTALLATION NOTES
		CORONADO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R6A	1500Ω	40X484-2	TT-511	B47-1500-S	B11-109	PTA152L	Vert. Linearity Height
R7A	5meg	40X491	Not Req.	Not Req.	TM-4	Not Req.	
R7B	5meg						

■ "STA-LOC" Equivalent: FC52L, RU16L, OSI687, IS2250, US41.

## 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
R8	2.2meg				R37	1.5meg			
R9	1meg				R38	56K 1W			
R10	5600Ω				R39	56K 1W			
R11	10K				R40	15K			
R12	470Ω				R41	15K			
R13	56Ω				R42	180Ω			
R14	22K				R43	1000Ω 1W②			
R15	470Ω				R44	220K			
R16	150Ω				R45	330K			
R17	1meg				R46	820K			
R18	3600Ω 4W	PW5-3600Ω	4W-SQ-3600Ω	#43X331	R47	82K			
R19	33K				R48	220K			
R20	68Ω				R49	3900Ω			
R21	100K				R50	68K			
R22	180K				R51	22K			
R23	100K				R52	10K			
R24	4700Ω 1W				R53	220K			
R25	100Ω				R54	56K			
R26	470Ω 1W				R55	68Ω			
R27	150Ω 1W				R56	22meg			
R28	2.2meg				R57	1meg			
R29	1.5meg				R58	95K 4W	PW5-95000Ω	5W-SQ-95000Ω	#43X351
R30	680K				R59	5600Ω			
R31	47K				R60	560Ω			
R32	6800Ω				R61	560Ω			
R33	4700Ω				R62	2500Ω 10W	PW10-2500Ω	5W-SQ-2500Ω	#43X291
R34	68K				R63	7.5Ω ③			#43X397
R35	1.5meg				R64	52Ω 20W			#43X302
R36	10meg								

① Alternate Value.

② May not be used in some versions.

③ Fusible Type

# Coronado Part Number.

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	CORONADO PART No.	REPLACEMENT DATA
K1	Volume Comp.	1000mmf, 5000mmf, 680Ω, 330K	76X16	Centralab PC-406
K2	Sync Sep. Grid	150mmf, 270K	76X15	Sprague PRC-5
K3	Vert. Integrator	2000mmf, 100K, 100K	76X19	
K4	Isolation	4700mmf, .3-1meg	*	Centralab RC-471

\* Some versions may use 1000mmf (1000V), 220K - 1meg Component Combination (Part #76X18) in this application.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		CORONADO PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	
L1A	1st Video IF	9A2436				
L2	41.25MC Trap					
L3A	2nd Video IF	9A2444				
L3B	3rd Video IF	9A2435				
L4	RF Choke (30uh)	9A2375	TV-180	6176	RTC-8593	
L5	RF Choke (30uh)	36A22	TV-180	6176	RTC-8593	
L6	Peaking (290uh)	9A2366	TV-185	6155	RTC-8587	
L7	4.5MC Trap	9A2366	TV-151	1469	RTC-8802	
L8	Peaking (325uh)	36A27	TV-200	6132	RTC-8577	
L9	Peaking (270uh)	36A45 ①	TV-198 *	6130 *	RTC-8576 *	
L10	Sound Takeoff Coil	9A2434	TV-154	1470-A	RTC-8804	
L11	Quadrature Coil	9A2367	TV-121	1480	RTC-8605	
L12	RF Choke (1.5uh)	9A2380	BC-562	4604	RTC-8516	

① Wound on 6800Ω Resistor.

\* Parallel with 6800Ω Resistor.

## COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					
		CORONADO PART No.	Merit PART No.	Miller PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.
L12	Horiz. Osc.	9A2481					
L13	Horiz. Waveform	9A2372	MWC-12	6315	QRC-104 ①	WC-18	HS-5 ①

① Enlarge mounting hole.

## FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 ~)	CORONADO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
L14	.250A	52Ω	.8 Hy.	52X95-11	C-2996 ①	C-2343	28C44	C-28X

① Drill new mounting hole.

## TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		CORONADO PART No.	Merit PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.	Triod PART No.	
T1	Vert. Output	51X207-1A	A-2855	V026 ①	VO-108	26S73 ②	A-142X ③	
T2	Alt. Vert. Output	51X207						
T3	Yoke Clamp	9A2482						
T3	Yoke Clamp	30X611						
T3	Horiz. Output	53X389						

① Connect as Autoformer.

② Drill new mounting hole(s).

③ Cut and tape red/black lead.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PR1	SEC.	CORONADO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triod PART No.	
T4	6000Ω	3-4Ω	51X208A ①	A-3026	A-3877	24S51	S-6X	① Alternate Part #51X206.

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	CORONADO PART No.	QUAM PART No.	
SP1	5"	PM	3-4Ω	12A527-2	5A07	Some Models use a 4" x 8" Speaker or a 3 1/2" Speaker. Specify Model number when ordering replacement.

## POWER RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		CORONADO PART No.	RCA PART No.	SARKES TARBAN PART No.	SYLVANIA PART No.	
M1	.250A	66X23	1N1764	F6	SR500	Silicon
M2	.250A	66X23	1N1764	F6	SR500	Silicon

## SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		CORONADO PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M3	1N60			1N60	1N60	Video Detector (Pigtail)

## MISCELLANEOUS

ITEM No.	PART NAME	CORONADO PART No.	NOTES
M4	Tuner Magnet	25A1192 25A1193-1 2A476	VHF, STANDARD COIL REPLACEMENT Type #GG-4221/A UHF Beam Aligner

## CABINETS &amp; CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	10A1005-1	Channel Selector
Knob	10A1001-2	Fine Tuning
Knob	10A933-1	Contrast
Knob	10A932-1	Off-On, Volume
Knob	10A1006-1	Brightness, Vertical Hold
Knob	10A1018-1	Horiz. Hold
Knob	10A1018-3	Range Control
Knob	10A998-2	UHF Tuning
Knob	10A999-1	UHF Indicator

## 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. 8550 (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

## TUBES

GENERAL ELECTRIC			RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	
V1	1st Video IF Amp.	3DK6	V7	Vert. Mult. - Vert. Output	10DE7	
V2	2nd Video IF Amp.	3DK6	V8	Horiz. AFC - Horiz. Osc.	6CG7	
V3	Video Output	8BQ5	V9	Horiz. Output	12DQ8B	
V4	Audio Det.	3BN6	V10	Damper	12AX4GTA	
V5	Audio Output	8BQ5	V11	HV Rectifier	1K3GT	
V6	Sync Sep. - Sync Amp.	6CG7				

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	CORONADO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V12	23YP4		23YP4 ①		23YP4 ②	① Aluminized ② Silver Screen "85"

## ELECTROLYTIC CAPACITORS

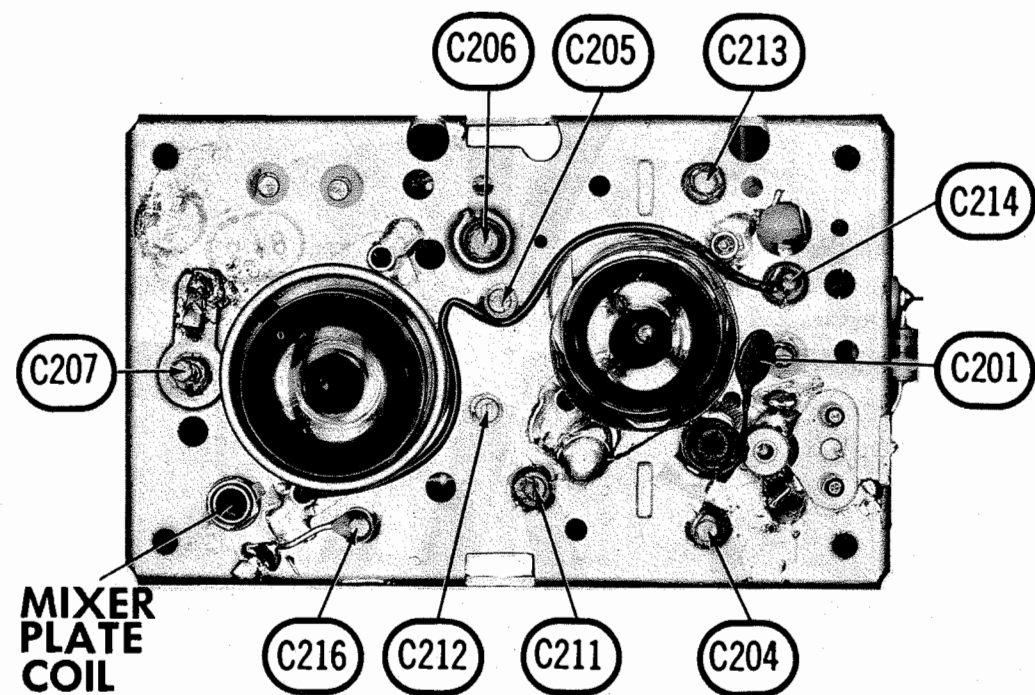
ITEM No.	RATING	REPLACEMENT DATA						
		CAP.	VOLT.	CORONADO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.
C1	140	150		45X421	AFH51-23	XA0261	FP117	TMS-1270
C2A	125	300		45X431	AFH4-02-80	XC0733.2	FP333.15	TMQ-4146
C2B	20	300						TVLS-3574.3*
C2C	20	300						
C3A	125	300		45X467	AFH3-99-82	D0046	FP326.75	TMT-3310
C3B	60	300						TVLS-3574.6*

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

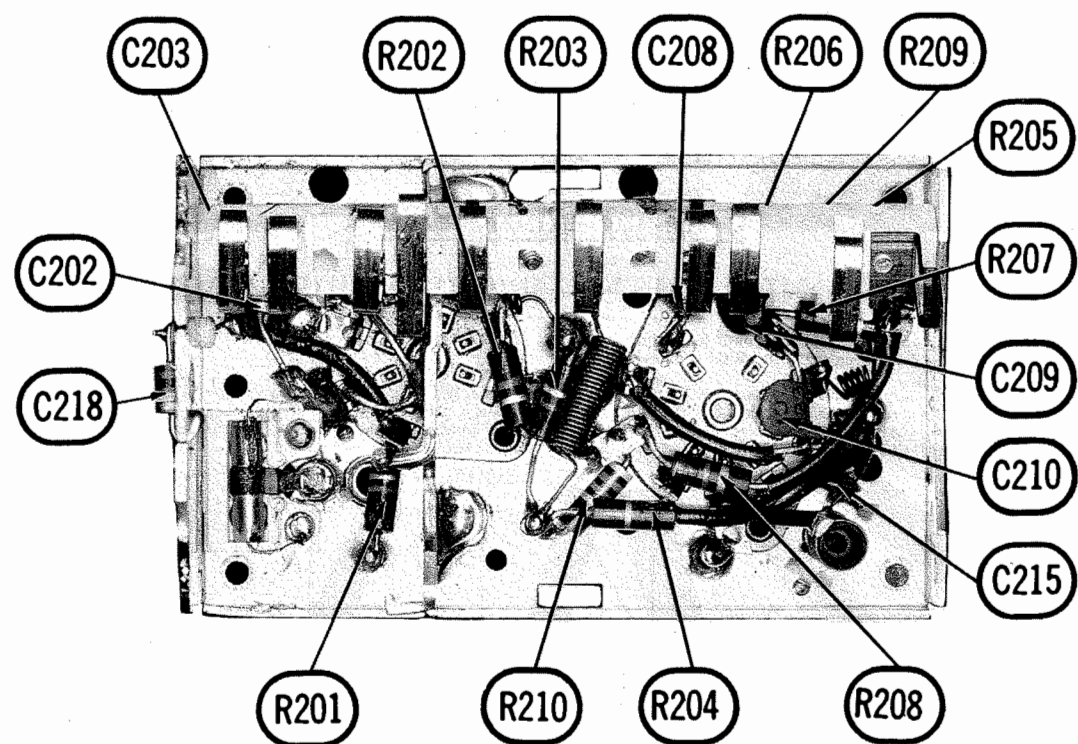
## FIXED CAPACITORS

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

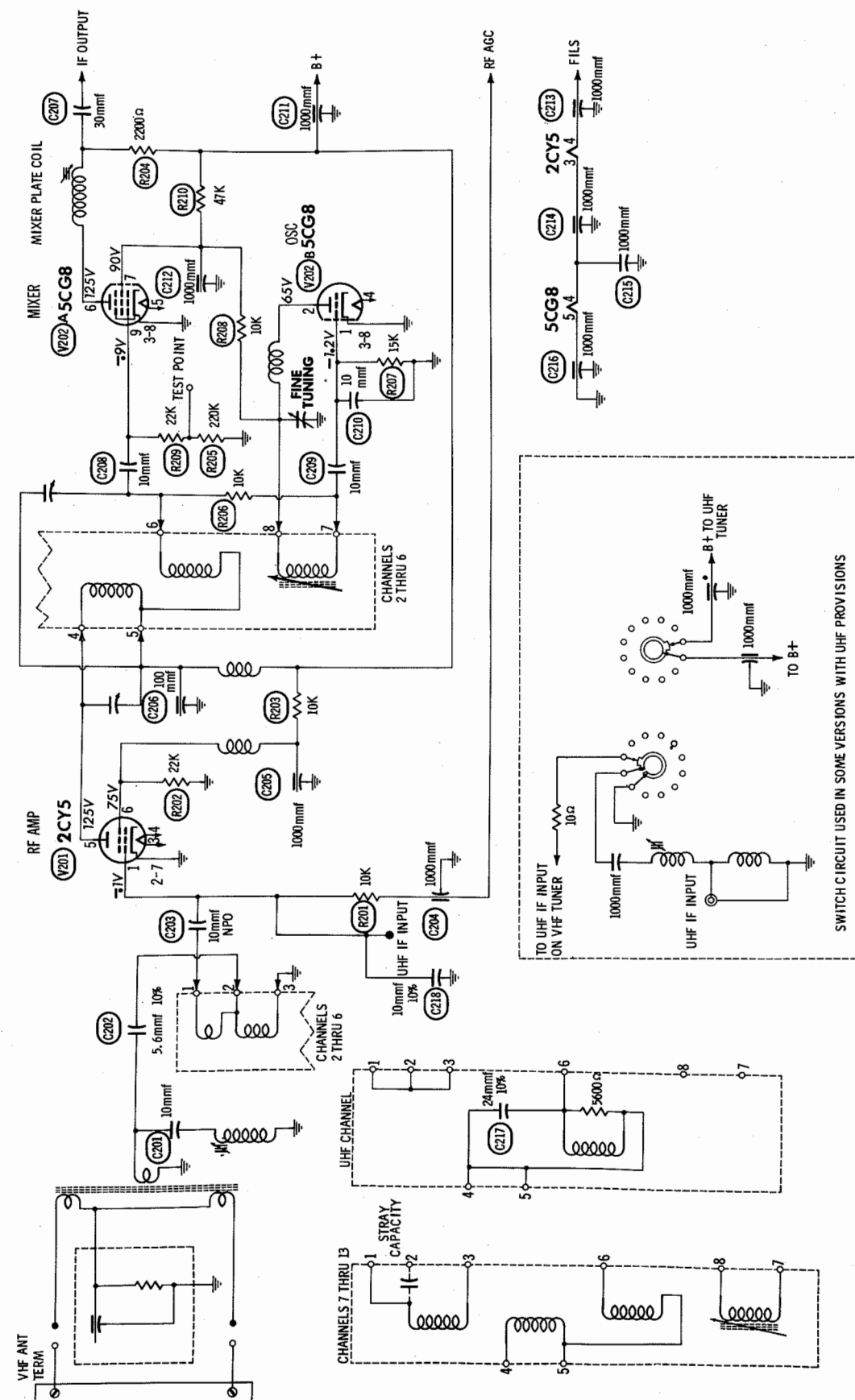
ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-4147	2TM-847
C5	68 NPO	5%		DTZ-68	C00Q68C	CCTO-680	CNO-468	10TCC-Q68
C6	270	10%		DI-270	L10727	CCD-271	GP327	10TS-T27
C7	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C8	390			DD-391	L10739	CCD-391	B-339	10TS-T39
C9	470	10%		DD-471	5R5T47	CCD-471	GP347	10TS-T47
C10	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C11	1000	10%		DD-1000	PM6D1	CCD-102	GP210	10TS-D10
C12	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-4147	2TM-847
C13	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-4147	2TM-847
C14	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C15	30 N33	10%				*		
C16	.1 400V		P488N-1	DD-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C17	.033 200V	10%	V84C2533-10%		PM4533	4DP-2-333	GEM-1013	4TM-S33
C18	.047 1000V		P1088N-047		16DP-5-473	16DP-5-473	GEM-10147	10TM-S47
C19	3.3	10%	NPO-SI 3.3	TCZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C20A	1000	}	BPD-2X001	DD3-102	BYD60D1	CCD-102	B2X210	5HK-2D10
C21	5000		BPD-005	FF-502	BYA10D5	CCD-502	B-250	5HK-D50
C22	15 N220	10%				*		
C23	.0047 600V		P688N-0047	D6-472	CUB6D47	6DP-1-472	GEM-6247	6TM-D47
C24	5000		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C25	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C26	.0047 400V		P488N-047	D6-472	CUB6D47	6DP-1-472	GEM-6247	6TM-D47
C27	.0047 400V	10%	V84C4747-10%		PM6147	6DP-1-472	GEM-6147	6TM-D47
C28	1000		BPD-001	DD-103	BYA10D1	CCD-102	B-210	5HK-D10
C29	1000		BPD-001	DD-103	BYA10D1	CCD-102	B-210	5HK-D10
C30	.033 600V		P688N-033	DD-303	CUB6S33	6DP-3-333	GEM-6133	6TM-S33
C31	.1 600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10
C32	18	10%	1469-000018	TCZ-18	22R5Q18	CM-19B-180K	CNO-418	MS-418
C33	82	10%	1469-000042	TCZ-82	22R5Q82	CM-19B-820K	CNO-482	MS-482
C34	100	10%	1469-00001	TCZ-100	22R5T1	CM-19B-101K	MCB235	MS-310
C35	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-4147	2TM-S47
C36	.022 200V		P288N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	2TM-S22
C37	.47 200V		P288N-.47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C38	.220	10%	1469-00022	TCZ-220	22R5T22	CM-19B-221K	CNO-322	MS-322
C39	.01 400V		P488N-.01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C40	820	10%	1469-00082		5R5T82	CM-19B-821K	MCB451	MS-382
C41	170-700	#17A276						
C42	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C43	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C44	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22
C45	39 5000V		10%				6DY-439	GEM-411
C46	.01 400V	( .047 ) †	P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S1
C47A	1000		BPD-2X001	DD3-102	BYD60D1	CCD-102	B2X210	5HK-2D10
C48	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22
C49	1000 1400V		DAC-27	DD16-103	HVE163	16DP-3-103	UAC-110	BL-S10
C50	1000 1400V							



VHF TUNER with UHF Provisions 25A1192 - TOP VIEW



VHF TUNER with UHF Provisions 25A1192 - BOTTOM VIEW



PHOTOFAC STANDARD NOTATION SCHEMATIC  
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CORONADO MODELS TV2-9533A, -9596A, -9598A, -9600A,  
-9602A, -9604A, -9606A, -9608A, -9610A, -9612A  
6E11A92 - suoisivodF UHF TUNER with UHF PROVISIONS

FOLDER 1



TUNER PARTS LIST AND DESCRIPTIONS

25A1192

TUBES

* GENERAL ELECTRIC *			* RAYTHEON *			* SYLVANIA *		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	2CY5	V202	Mixer - Osc.	5CG8			

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	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	10		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C202	5.6 10%							10TCC-V5.6
C203	10 NPO		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C204	1000		EF-001	MFT-1000		CCF-102	CT280A	
C205	1000		EF-001	MFT-1000		CCF-102	CT280A	
C206	100		EF-0001	MFT-100				
C207	30							
C208	10		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C209	10		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C210	10		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C211	1000		EF-001	MFT-1000		CCF-102	CT280A	
C212	1000		EF-001	MFT-1000		CCF-102	CT280A	
C213	1000		EF-001	MFT-1000		CCF-102	CT280A	
C214	1000		EF-001	MFT-1000		CCF-102	CT280A	
C215	1000		DI-1000	DD-102	BYA10DI	CCD-102	GP210	10TS-D10
C216	1000		EF-001	MFT-1000		CCF-102	CT280A	
C217	24 10%		NPO-SI 24	TCZ-24	C10Q24C	CCTO-240	CNO-427	10TCC-Q25
C218	10 10%		NPO-SI 10	TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10

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	10K				R206	10K			
R202	22K				R207	15K			
R203	10K				R208	10K			
R204	2200Ω				R209	22K			
R205	220K				R210	47K			

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PART No.	REPLACEMENT DATA
K201	VHF Antenna Filter			

TUNER ALIGNMENT INSTRUCTIONS

TUNER ALIGNMENT

Suggested Alignment Tools: GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989  
WALSCO #2515, 2531, 2532

VHF OSCILLATOR ALIGNMENT

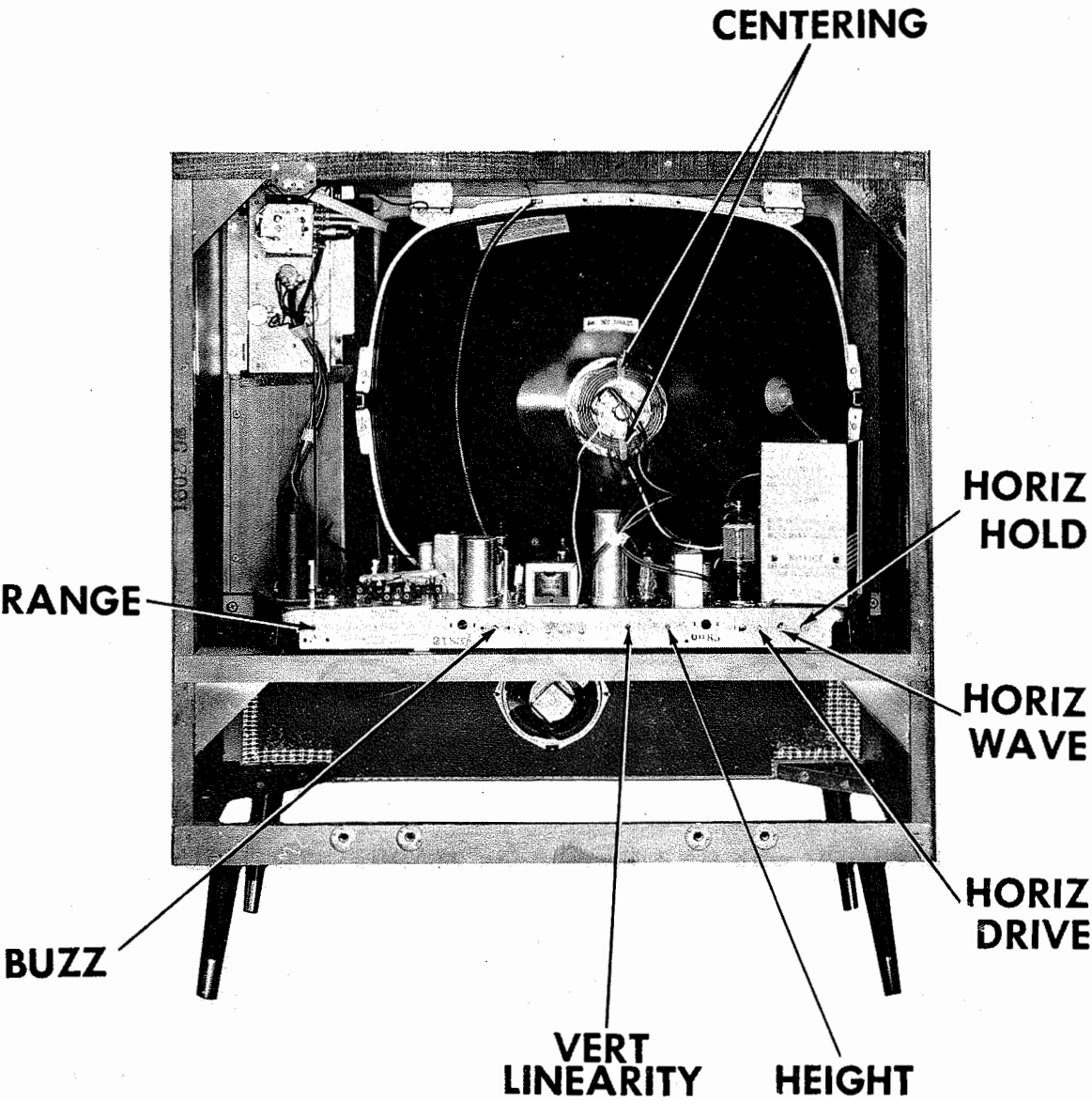
The individual channel adjustment screws are accessible one at a time, thru a hole in the front of the tuner, as the Channel Selector is rotated. Set the Fine Tuning to the center of its range and switch to channel to be adjusted and adjust for best picture and sound.

VHF RF AND MIXER ALIGNMENT

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

UHF TUNER ALIGNMENT

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



CABINET-REAR VIEW

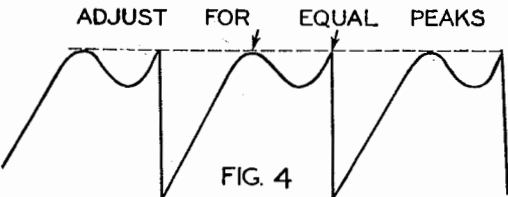
HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a station and adjust the Horizontal Hold until the picture is just about to tear out of sync as can be seen at the top of the picture.

Turn the Contrast control fully counterclockwise and the Brightness control clockwise so that the picture appears washed out. Turn the Horizontal Drive trimmer (B1) clockwise until white bars (drive lines) appear in the left center portion of the raster, then counterclockwise until the

white bars just disappear.

Connect the vertical amplifier of the scope to point  $\diamond$ . Low side to chassis. Adjust the Horizontal Waveform slug (B2) until the round and sharp peaks of the waveform are equal in amplitude. See Fig. 4. Keep the picture in sync during this adjustment.



DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 8 wood screws holding rear cover. Remove rear cover.
2. Remove 6 push-on type knobs on front of cabinet.
3. Remove 4 screws holding control panel in front (with tuner on panel).
4. Remove speaker leads, yoke plug, picture tube ground lead, and high voltage lead.

5. Remove 4 chassis bolts.

6. Remove chassis.

PICTURE TUBE REMOVAL

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

CORONADO MODELS TV2-9533A,-9596A,-9598A,-9600A,-9602A,-9604A,-9606A,-9608A,-9610A,-9612A

FOLDER 1