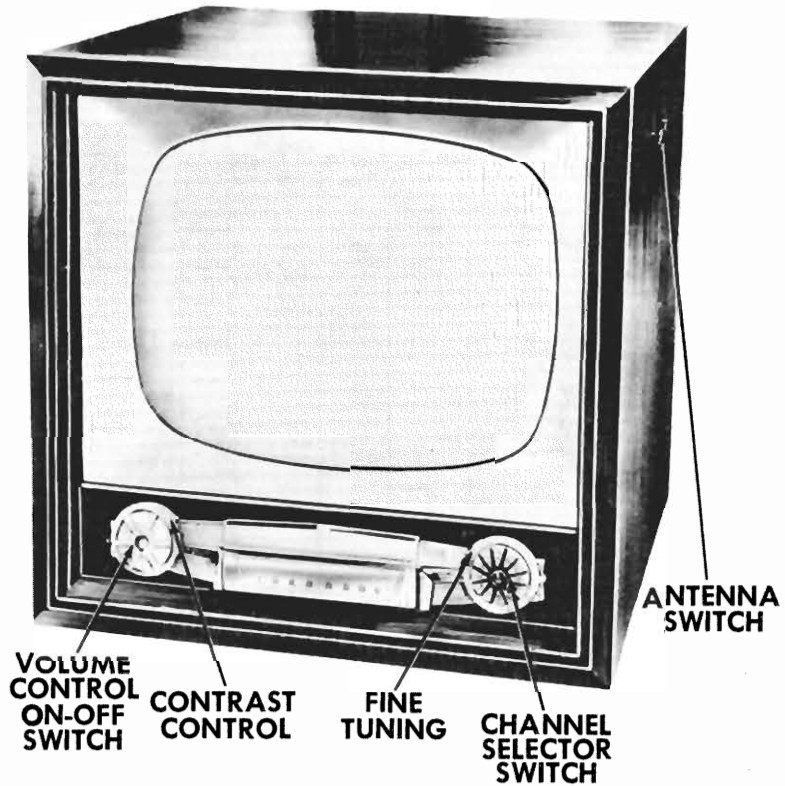




2488



CORONADO MODEL 45TV11-43-9027A

TRADE NAME	Coronado	MODELS	SERIES	MODEL NAME
		45TV11-43-9027A, 45TV11-43-9028A	..... XT-100	Logan
		45TV11-43-9085A, 45TV11-43-9086A	..... XT-100	York
		45TV11-43-9087A, 45TV11-43-9088A,		
		45TV11-43-9089A, 45TV11-43-9090A	..... XT-100	Norwood
		45TV11-43-9091A, 45TV11-43-9092A,		
		45TV11-43-9093A, 45TV11-43-9094A	..... XT-100	Monticello
		45TV11-43-9095A, 45TV11-43-9096A,		
		45TV11-43-9097A, 45TV11-43-9098A	..... XT-100	Hamton
		45TV11-43-9130A, 45TV11-43-9131A	..... XT-100	Savannah
SUPPLIER	Gamble-Skogmo Inc., 15 North 8th. St., Minneapolis, Minn.			
TYPE SET	Television Receiver			
TUBES	Eighteen			
POWER SUPPLY	110-120 Volts AC-60 Cycles		RATING 1.52 Amp. @ 117 Volts AC	
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 25.1MC, Sound IF 20.6MC (Intercarrier)			

INDEX

Alignment Instructions	6	Photographs (Cont)	
Disassembly Instructions	22	Trans., Inductor & Alignment Identification	7
Horizontal Sweep Circuit Adjustments	15	Resistance Measurements	8
Parts List and Descriptions	16, 17, 18	Servicing in the Field	22
Photographs		Schematic (Radio)	19
Cabinet-Rear View	15	Schematic (TV)	2
Capacitor Identification	4, 9	Schematic (UHF Tuners)	14
Chassis-Top View	3	Trouble Shooting Aids	12, 21
High Voltage Compartment	21	Tube Failure Check Chart	5
RF Tuner	10, 11	Tube Placement Chart (Bottom View)	8
Resistor Identification	13, 20	Tube Placement Chart (Top View)	5

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

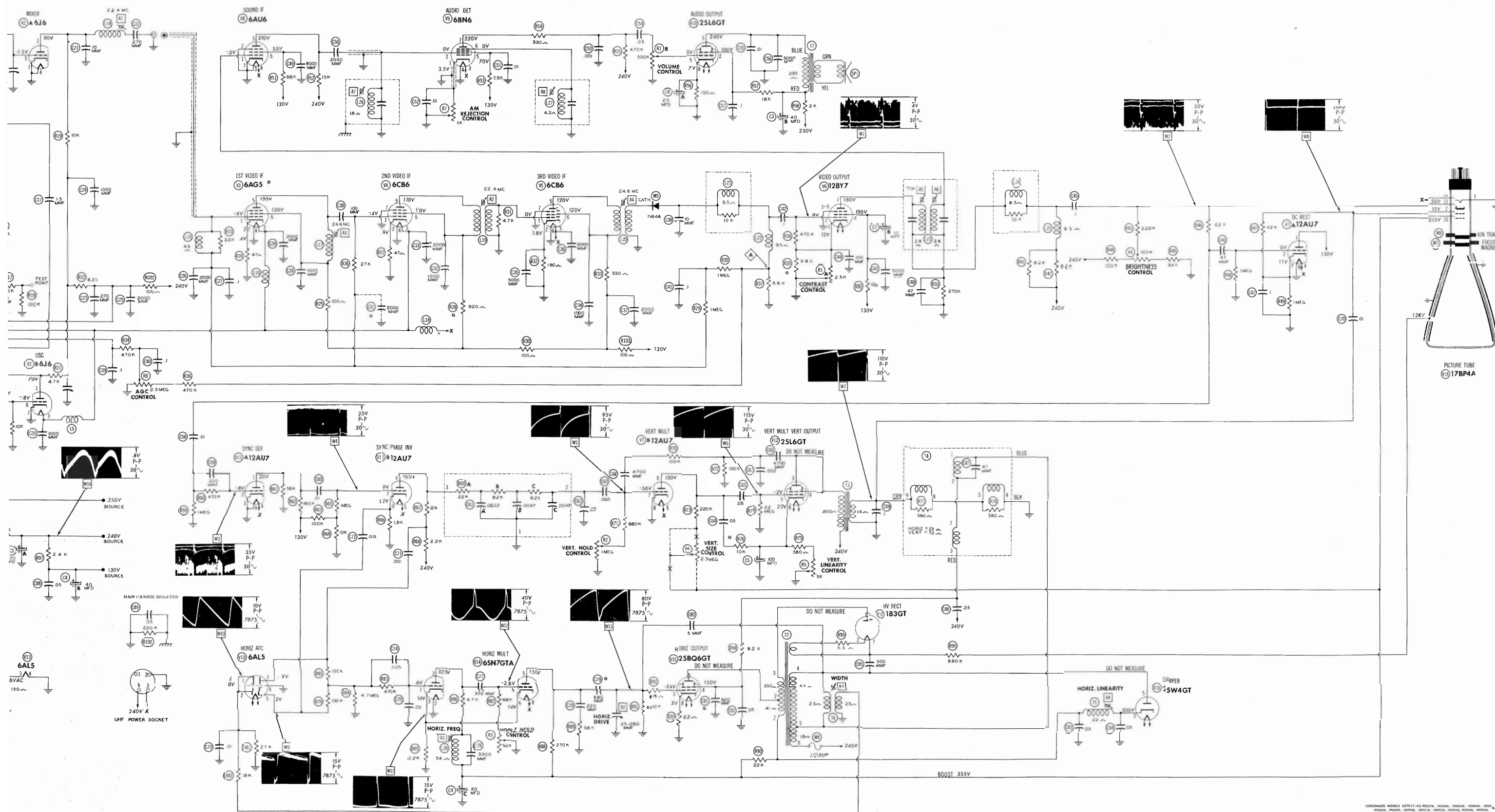
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W.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

"Reproduction or use, without express permission, of editorial or pictorial con-

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1955 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc."

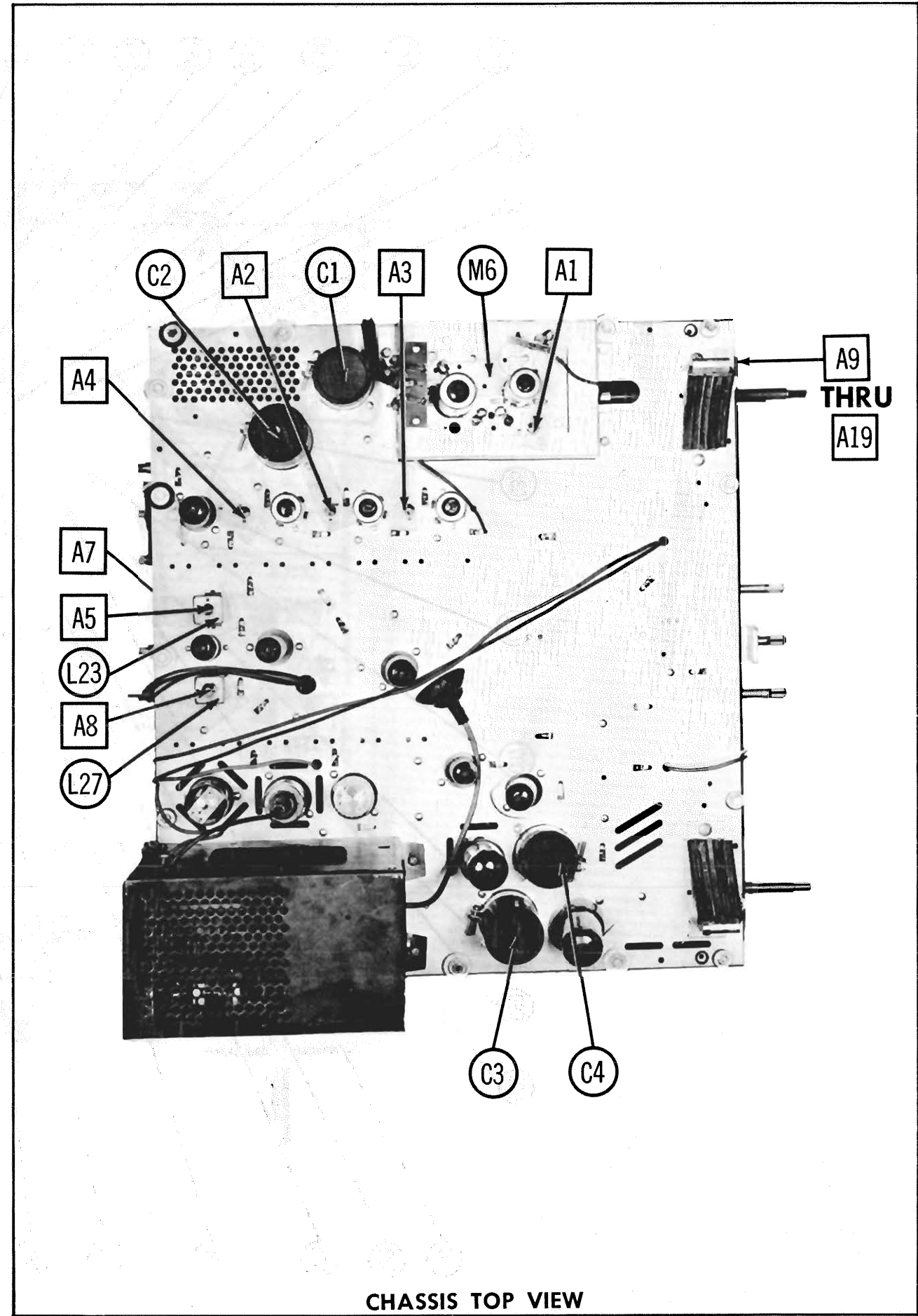
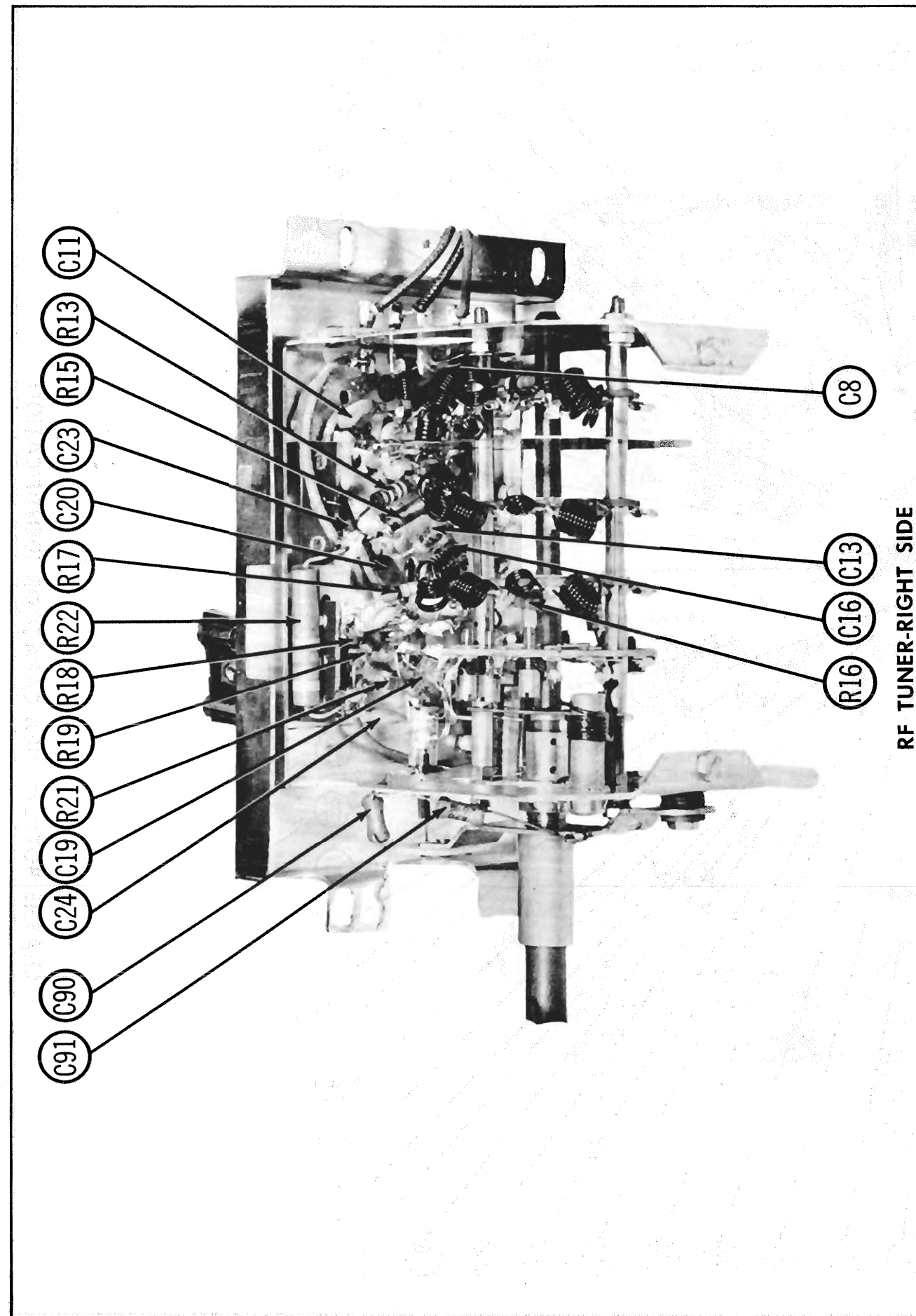
Printed in U. S. of America

CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)



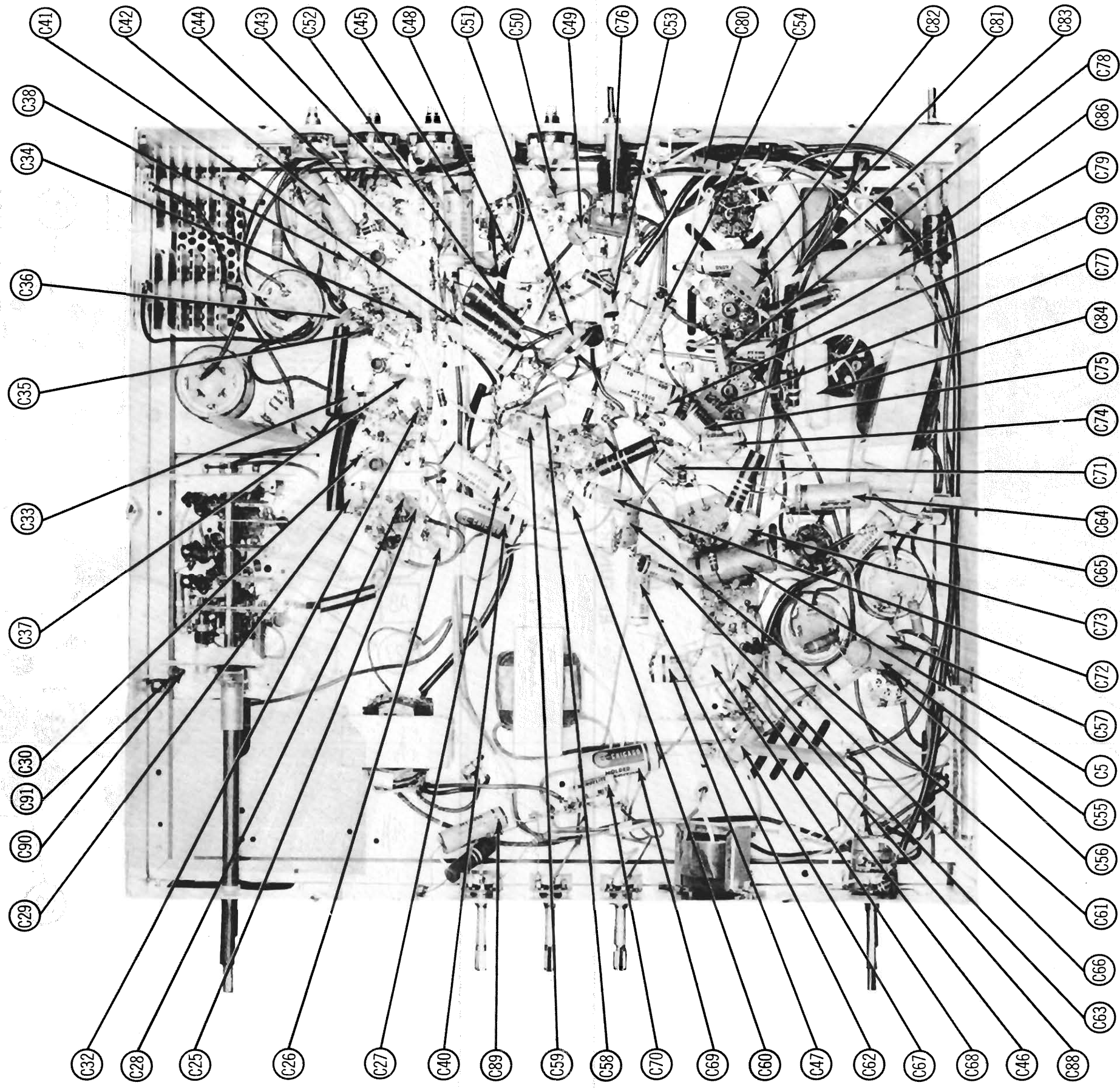
CORONADO MODELS 45TV11-43-9097A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

CORONADO MODELS 45TV11-43-9097A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)



CHASSIS TOP VIEW

CORONADO MODELS 45TV11-43-9022A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

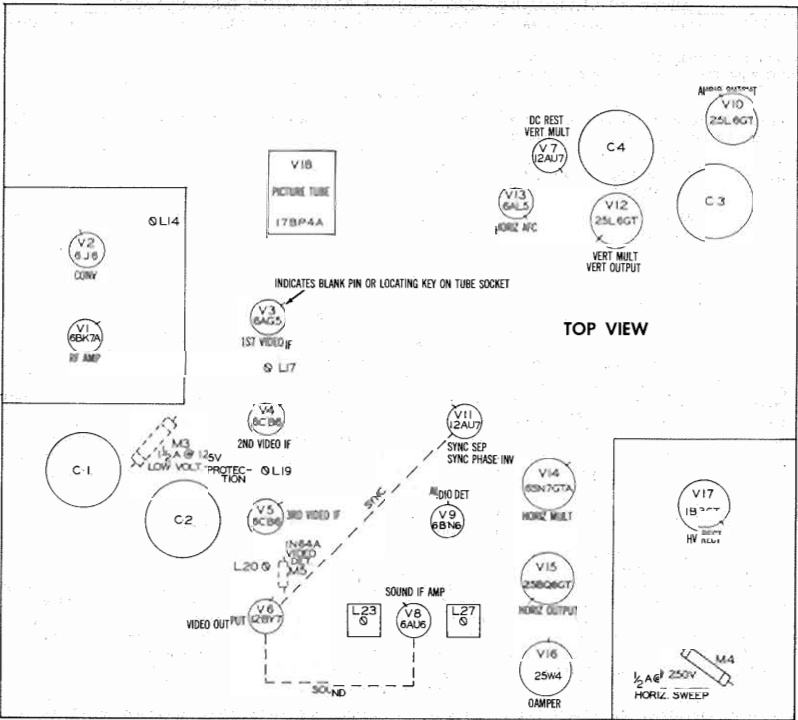
CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9086A, -9087A,
 -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, 9094A, -9095A,
 -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

RESISTANCE MEASUREMENTS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BQ7A	†1.2KΩ	200KΩ	INF	0Ω	.1Ω	INF	2Meg	0Ω	0Ω
V 2	6J6	†13.2KΩ	†18.4KΩ	.1Ω	0Ω	110KΩ	10KΩ	0Ω		
V 3	6AG5	2Meg	47Ω	.1Ω	0Ω	†2.8KΩ	†2.8KΩ	47Ω		
V 4	6CB6	2Meg	47Ω	.1Ω	0Ω	†3.4KΩ	†3.4KΩ	0Ω		
V 5	6CB6	.2Ω	180Ω	.1Ω	0Ω	†2.8KΩ	†2.8KΩ	0Ω		
V 6	12BY7	800Ω	470KΩ	0Ω	16.5Ω	5Ω	10.5Ω	†4.2KΩ	†14.5KΩ	0Ω
V 7	12AU7	†2.4KΩ	1Meg	1Meg	.1Ω	.1Ω	▲1.4Meg	1.2Meg	0Ω	0Ω
V 8	6AU6	270KΩ	0Ω	0Ω	.1Ω	†15KΩ	†70.5KΩ	0Ω		
V 9	6BN6	500Ω	1.6Ω	.1Ω	0Ω	†10KΩ	4.2Ω	†470KΩ		
V 10	25L6GT	INF	28Ω	†2.3KΩ	†20KΩ	250KΩ	INF	30Ω	150Ω	
V 11	12AU7	†50KΩ	1.5Meg	0Ω	.1Ω	.1Ω	†14.2KΩ	†1.1Meg	1.5KΩ	0Ω
V 12	25L6GT	INF	30Ω	†666Ω	†666Ω	2.2Meg	▲1.2Meg	19.5Ω	800Ω	
V 13	6AL5	11KΩ	11KΩ	5.5Ω	0Ω	4.8Meg	0Ω	4.8Meg		
V 14	6SN7GT	5.2Meg	▲25KΩ	2.2KΩ	80KΩ	▲300KΩ	2.2KΩ	0Ω	.1Ω	TOP CAP ▲63Ω
V 15	25BQ6GT	0Ω	28Ω	INF	†6.2KΩ	680KΩ	5.6KΩ	16.5Ω	22Ω	
V 16	25W4	INF	INF	1Meg	INF	†90Ω	1Meg	.4Ω	19.5Ω	TOP CAP ▲41Ω
V 17	1B3GT		PINS	1 - 8	HAVE	INF	RESISTANCE			
V 18	17BP4A	0Ω	1Meg	PIN 10 ▲22KΩ	PIN 11 †180KΩ	PIN 12 .1Ω				

† MEASURED FROM OUTPUT OF M2
▲ MEASURED FROM PIN 3 OF V16

TUBE PLACEMENT CHART



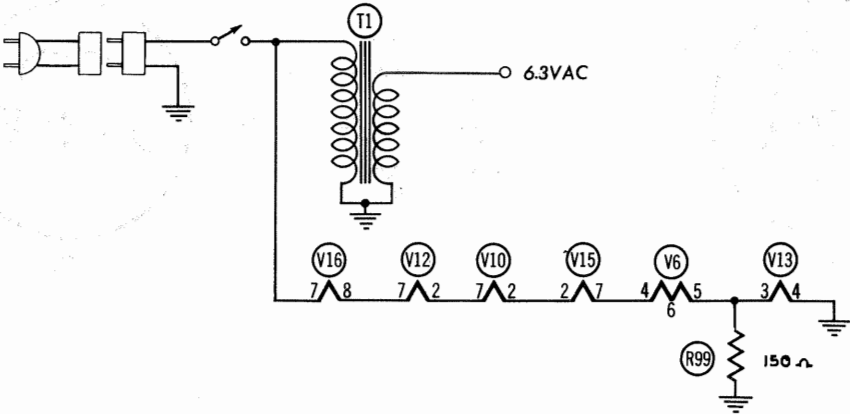
TUBE FAILURE CHECK CHART

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 - Selenium Rectifier (M1 & M2), Fuse (M3)
- LOSS OF PICTURE OR SOUND**
No pic, no sound, has raster - V2, V3, V4, V5, V6
No pic, no sound, has snow - V1, V2, V3
No pic, has sound, has raster - V6, V18
Has pic, no sound - V8, V9, V10

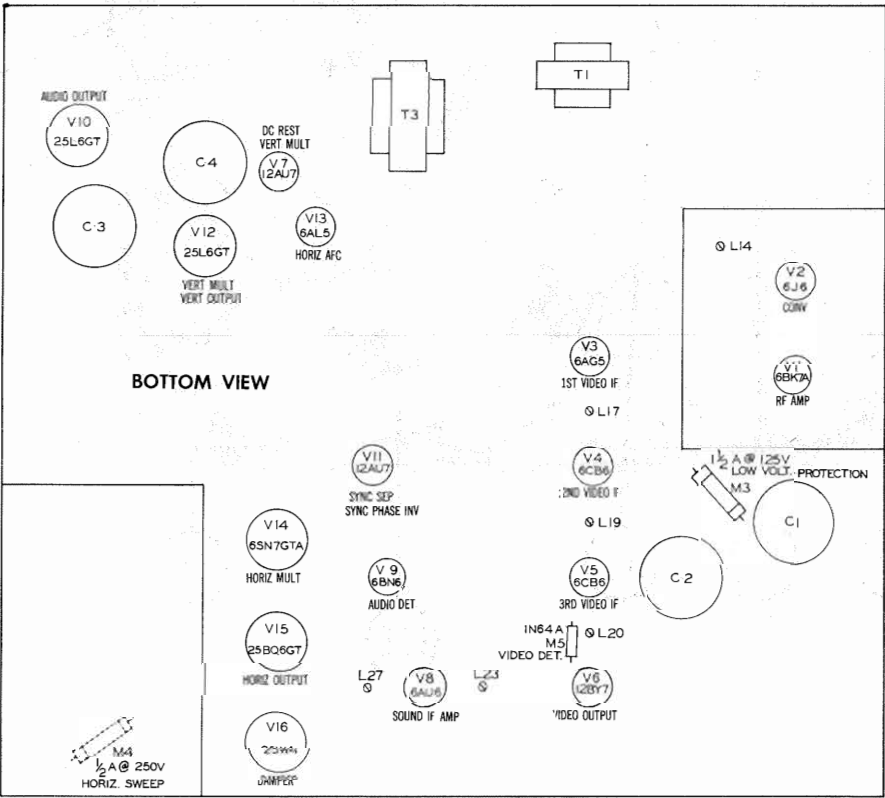
- SYNC FAILURE**
No vert. sync - V7, V11, V12
No horiz. sync - V11, V13, V14
No vert. or horiz. sync - V11
- SWEEP FAILURE**
No raster, has sound - V14, V15, V16, V17, V18, Fuse (M4)
No vertical deflection - V7, V12
Poor vert. linearity or foldover - V7, V12
Poor horiz. linearity or foldover - V14, V15, V16
Narrow picture - V14, V15, V16, V17, M1, M2
Vert. off freq. - V7, V11, V12
Horiz. off freq. - V11, V13, V14

SINCE THIS RECEIVER EMPLOYS TUBES USED IN A SERIES-PARALLEL FILAMENT NETWORK, AN OPEN FILAMENT IN ANY TUBE IN SERIES MAY CAUSE THE SET TO BE INOPERATIVE. (SEE CIRCUIT BELOW.)



CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

TUBE PLACEMENT CHART



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage lead should be securely taped and kept away from the chassis. Do not remove the horizontal oscillator tube (V14) from its socket to disable the high voltage.
Use an isolation transformer to protect the test equipment.
Make all test equipment ground returns to B- (chassis top plate).

VIDEO IF ALIGNMENT

Set contrast control for minimum contrast. Remove the converter tube (V2) and replace with a 6J6 which has Pin 1 removed. This will disable the local oscillator and reduce the possibility of erroneous indications.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to an ungrounded tube shield floating over dummy converter tube. Low side to B-.	22.4MC (Unmod)	Any	DC probe to point Δ . Common to B-.	A1, A2	Adjust for maximum deflection.
2. "	"	24.6MC	"	"	A3, A4	"

OVERALL VIDEO IF RESPONSE CHECK

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3. Direct	High side to an ungrounded tube shield floating over dummy converter tube. Low side to B-.	24MC (10MC Swp)	20.6MC 22.0MC 25.1MC 26.6MC	Any	Vert. Amp. thru 10K Ω to point Δ . Low side to B-.		Check for response curve similar to Fig. 1. If necessary, retouch A1 thru A4 to obtain desired response.

SOUND IF ALIGNMENT USING ON THE AIR SIGNAL

Remove the dummy converter tube and replace the original 6J6 in its socket.
Tune in a TV station and connect an attenuator pad (Fig. 2) in series with the antenna.
Attenuate the input until the sound signal drops below the limiting level of the 6BN6 as indicated by a hiss similar to superregeneration. It may be necessary to use more than one pad similar to Fig. 2 to reduce the signal input below the limiting level of the 6BN6.
Adjust the sound take off coil (A5 and A6) for maximum audio. Adjust A7 for maximum audio signal regardless of hiss or buzz. If the hiss disappears during adjustment of A5 or A6 reduce the signal input until the hiss returns. When maximum sound output has been reached through adjustment of A5, A6 and A7 increase the signal output to the point where the hiss disappears and adjust A8 for maximum sound output.
Adjust the AM rejection control (R7A) for minimum intercarrier buzz, then repeat the adjustment of A8 and R7A.

OSCILLATOR ALIGNMENT

There is no individual oscillator adjustment for channel 7 as the alignment for channel 8 assures proper alignment for channel 7.
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 mid-position of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. Two 120 Ω Carbon Resistors	Across antenna terminals with 120 Ω in each lead.	213MC (10MC Swp) 207MC (10MC Swp) 201MC (10MC Swp) 195MC (10MC Swp) 189MC (10MC Swp) 183MC (10MC Swp) 85MC (10MC Swp) 79MC (10MC Swp) 89MC (10MC Swp) 83MC (10MC Swp) 57MC (10MC Swp)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 83.25MC 87.75MC 77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	13 12 11 10 9 8 6 5 4 3 2	Vert. Amp. thru 10K Ω to point Δ . Low side to B-.	A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19	Adjust to place video marker at 50% on response curve as in Fig. 3.

RF AND MIXER ALIGNMENT

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

PERMISSIBLE VARIATIONS

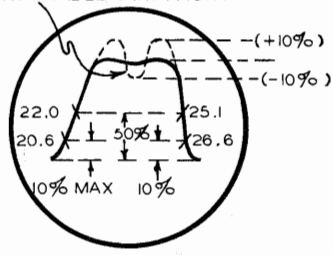


FIG. 1

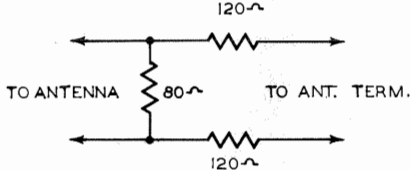


FIG. 2

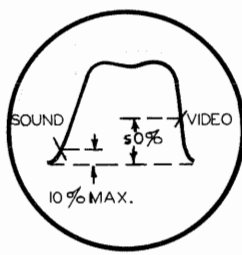
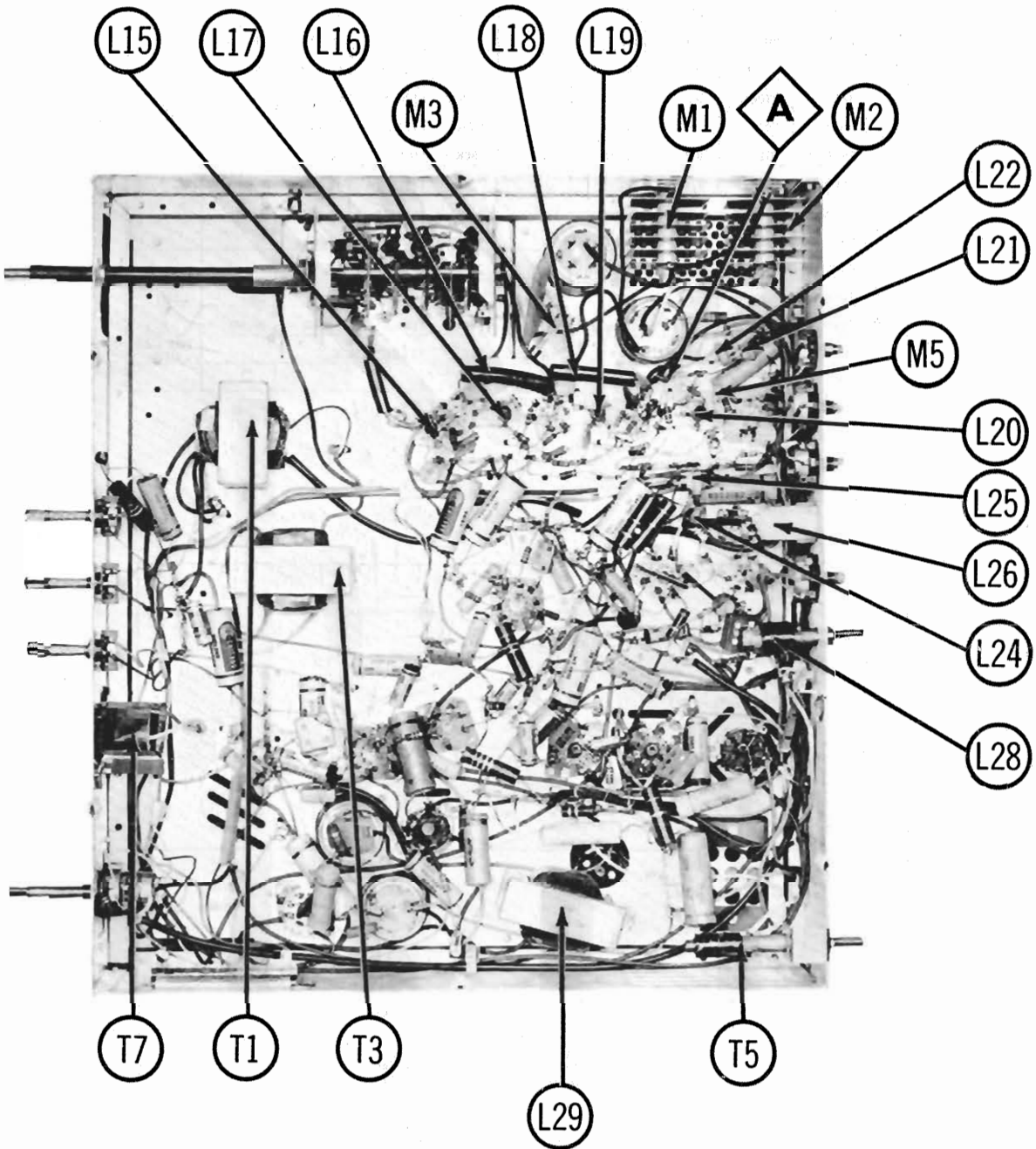


FIG. 3



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

CORONADO MODELS 45TV11-43-9027A, -9028A, -9083A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustments of the VHF tuner oscillator circuit may be accomplished by removing the channel selector and fine tuning knobs.

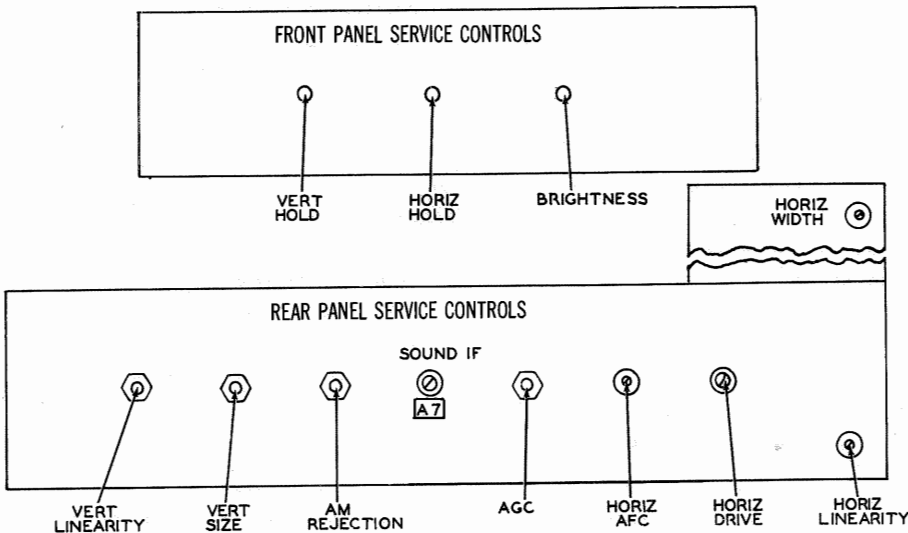
PICTURE TUBE SAFETY GLASS CLEANING

For picture tube safety glass cleaning, it is necessary to remove chassis. (See disassembly instructions).

PICTURE TUBE REMOVAL

For picture tube removal it is necessary to remove chassis. (See disassembly instructions).

SERVICE ADJUSTMENT LOCATION



HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Adjustment of the horizontal oscillator circuit can be made from the rear panel of the chassis. Set the horizontal hold control at the mid-position of its range and adjust the horizontal frequency slug (L28) until the picture synchronizes horizontally.

SOUND IF DETECTOR BUZZ ADJUSTMENT - AM REJECTION CONTROL

To eliminate sound IF detector buzz, adjust the "AM Rejection Control" located on rear apron of chassis for maximum volume and minimum buzz. If results are unsatisfactory see Alignment Instructions on page 6.

FUSES

Two fuses are used. One for horizontal sweep circuit protection and one for LV power supply protection. (For location, see tube placement chart).

CENTERING

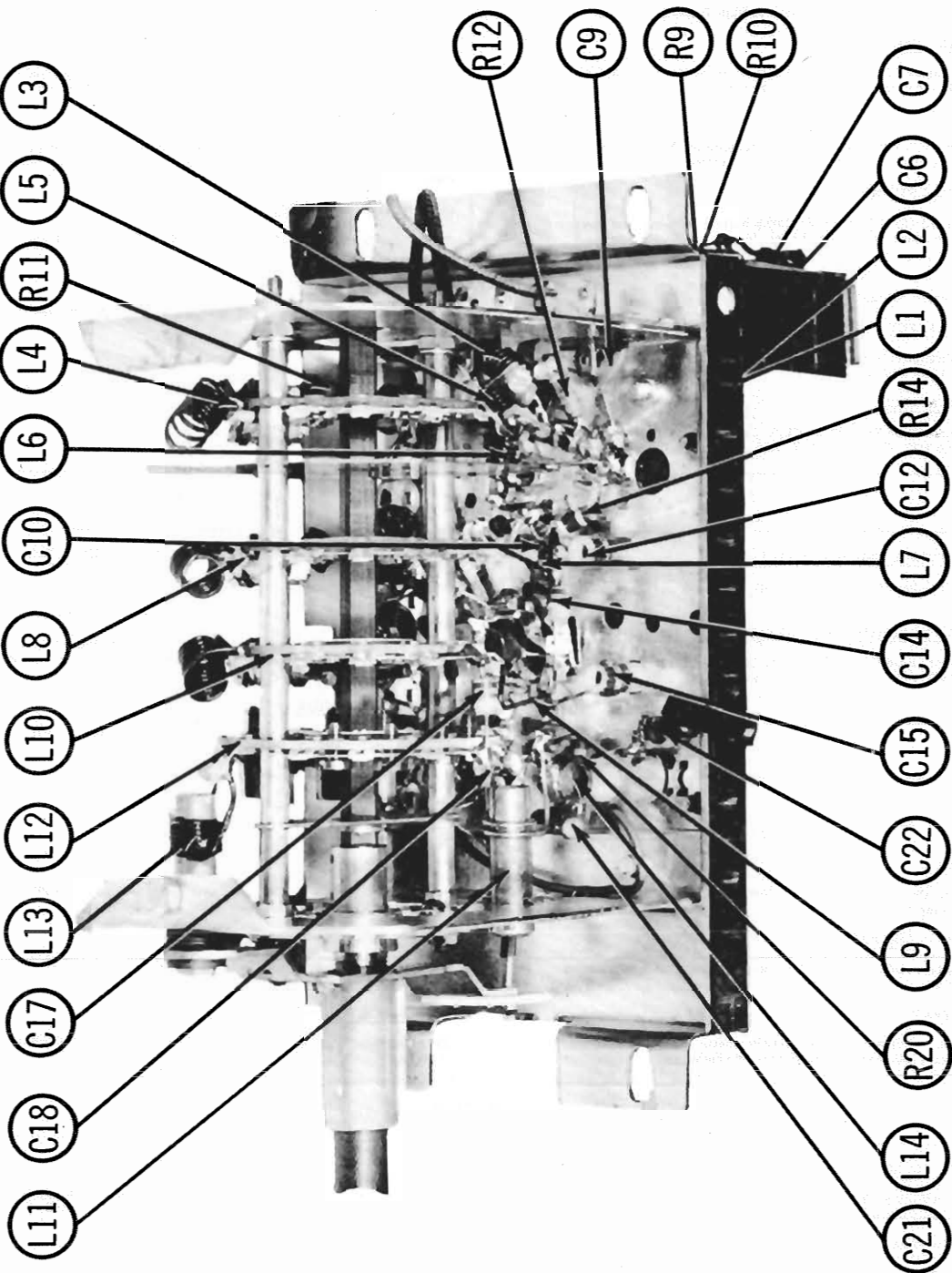
Centering is accomplished mechanically by means of a centering lever on the PM focusing assembly. Adjust the centering lever from side to side, and up and down until the picture is properly centered.

BUILT-IN ANTENNA TUNING

Built-in antenna can be adjusted from side of the cabinet. Adjust for a picture of maximum contrast and minimum ghosts.

DISASSEMBLY INSTRUCTIONS

1. Remove 7 push-on type control knobs from front panel.
2. Remove 6 wood screws. Remove rear cover.
3. Remove 2 wood screws. Remove antenna bracket.
4. Remove 2 wood screws. Remove interlock bracket.
5. Disconnect speaker leads.
6. Remove 4 speaker nuts. Remove speaker.
7. Remove 6 chassis bolts. Remove chassis.



RF TUNER-LEFT SIDE

CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

TROUBLE SHOOTING AIDS

SWEEP

HORIZONTAL	VERTICAL				
<p>LOSS OF SWEEP</p> <p>Follow procedure outlined under "Loss of High Voltage".</p> <p>INSUFFICIENT SWEEP</p> <p>Check adjustments B2, B3 and B4. Check by substitution V15 and V16. Check M1, M2, R94 and other associated components.</p> <p>DRIVE LINES</p> <p>Check adjustments B2 and B4. Check by substitution V15 and V16. Check C79, R91, R94, R93, T2, T4A and other associated components.</p> <p>COMPRESSED LEFT SIDE</p> <p>Check by substitution V15 and V16. Check horizontal output and damper stages for component failure or change of value.</p> <p>FOLDS</p> <p>Follow procedure outlined under "Drive Lines".</p> <p>PIE CRUST EFFECT</p> <p>Check by substitution V14, V15 and V16. Check C75 for open. Check other components associated with V14.</p> <p>XMAS TREE EFFECT</p> <p>Check by substitution V14, V15 and V16. Check T2 and T4A for internal arcing. Check C77, C76, C79, R87, R86 and other associated components.</p>	<p>LOSS OF SWEEP</p> <p>Check by substitution V7 and V12. Check waveform W6.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check T3, T4B, C69, C5 and other associated components.</td><td>Check C65, R73, R6 and other associated components.</td></tr> </table> <p>INSUFFICIENT SWEEP</p> <p>Check by substitution V7 and V12. Check vertical size and vertical linearity controls for proper operation. Check T3, T4B and other associated components.</p> <p>COMPRESSED AT BOTTOM</p> <p>Check by substitution V7 and V12. Check R6, R73, C64, C65 and other associated components.</p> <p>COMPRESSED AT TOP</p> <p>Check by substitution V7 and V12. Check C5, R76, R75, R5 and other components associated with V12.</p> <p>FOLDS</p> <p>Check by substitution V7 and V12. Check C64, R76, R75, R5 and other associated components.</p>	If Satisfactory	If Unsatisfactory	Check T3, T4B, C69, C5 and other associated components.	Check C65, R73, R6 and other associated components.
If Satisfactory	If Unsatisfactory				
Check T3, T4B, C69, C5 and other associated components.	Check C65, R73, R6 and other associated components.				

SYNC

<p>LOSS OF VERTICAL AND HORIZONTAL SYNC</p> <p>Substitute V11. Check C58, C60, R68, R67, R62, R61 and other associated components.</p> <p>LOSS OF VERTICAL SYNC-HORIZONTAL SYNC SATISFACTORY</p> <p>Check by substitution V11 and V7. Check R2, C63. Check vertical integrator network. Check video IF alignment for overloading.</p>	<p>LOSS OF HORIZONTAL SYNC-VERTICAL SYNC SATISFACTORY</p> <p>Check by substitution V13 and V14. Check waveform W11.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check L28, C76, C77, R87, R3 and other associated components.</td><td>Check horizontal AFC network for component failure or change of value.</td></tr> </table> <p>HORIZONTAL BENDING</p> <p>Check by substitution V11, V13 and V14. Check components associated with V13.</p>	If Satisfactory	If Unsatisfactory	Check L28, C76, C77, R87, R3 and other associated components.	Check horizontal AFC network for component failure or change of value.
If Satisfactory	If Unsatisfactory				
Check L28, C76, C77, R87, R3 and other associated components.	Check horizontal AFC network for component failure or change of value.				

VIDEO

<p>LOSS OF VIDEO</p> <p>Substitute V6. Check L25, C43, C45, R40, picture tube and other associated components.</p> <p>SOUND BARS (4.5MC BEAT)</p> <p>Adjust tuner fine tuning for best sound and picture. Check adjustment A5. Check video IF alignment.</p> <p>POOR CONTRAST</p> <p>Substitute V6. Check video crystal detector network. Check contrast control, picture tube and other associated components.</p>	<p>NEGATIVE PICTURE</p> <p>Substitute V6. Check video crystal detector network. Check picture tube. Check video IF alignment.</p> <p>SMEAR</p> <p>Substitute V6. Check L21, L22, L24, L25. Check video IF alignment and other associated components.</p> <p>WIDE BLACK BAR ACROSS PICTURE</p> <p>Check by substitution V1, V3, V4, V5 and V6 for heater to cathode leakage.</p>
--	--

AUDIO

<p>WEAK OR NO SOUND</p> <p>Check by substitution V8, V9 and V10. Check stage V10 using audio signal generator. Apply audio across R1B.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check audio detector and audio IF stages for component failure or change of value.</td><td>Check C54, C55, C56, R57, R58, R56, C57, T7, speaker and other associated components.</td></tr> </table>	If Satisfactory	If Unsatisfactory	Check audio detector and audio IF stages for component failure or change of value.	Check C54, C55, C56, R57, R58, R56, C57, T7, speaker and other associated components.	<p>BUZZ</p> <p>Adjust tuner fine tuning for best sound and picture. Check adjustments R7 and R8 for minimum buzz. If still unsatisfactory, check audio IF alignment.</p> <p>DISTORTED</p> <p>Follow procedure outlined under "Weak or No Sound".</p>
If Satisfactory	If Unsatisfactory				
Check audio detector and audio IF stages for component failure or change of value.	Check C54, C55, C56, R57, R58, R56, C57, T7, speaker and other associated components.				

TROUBLE SHOOTING AIDS (cont)

POWER

<p>DEAD SET</p> <p>If filaments fail to light, check AC interlock assembly. Check switch on volume control and T1. If V6, V10, V12, V13, V15 and V16 fail to light, check these tubes, since these tubes are connected in series. If filaments light check M1 and M2. Check M3 fuse, R98 and C1. Check B+ filter and decoupling network.</p>	<p>SMALL AND/OR DIM PICTURE</p> <p>Check M1 and M2. Check C1. Check B+ filter and decoupling network.</p>
---	--

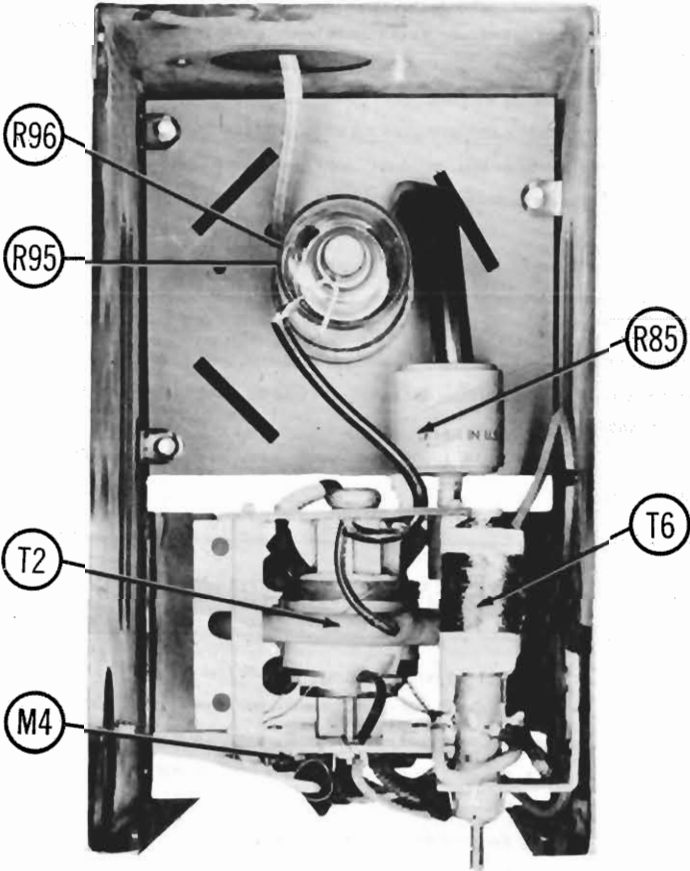
HIGH VOLTAGE

<p>LOSS OF HIGH VOLTAGE</p> <p>Check by substitution V14, V15, V16 and V17. Check M4 fuse. Check waveform W13.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check T2, T4A, T5, C83, C84, C86, C81, C82, R94 and other associated components.</td><td>Check L28, C76, C79, C77, R86, R88, R85 and other associated components.</td></tr> </table>	If Satisfactory	If Unsatisfactory	Check T2, T4A, T5, C83, C84, C86, C81, C82, R94 and other associated components.	Check L28, C76, C79, C77, R86, R88, R85 and other associated components.	<p>INSUFFICIENT HIGH VOLTAGE</p> <p>Check by substitution V15 and V16. Adjust B2. Check M1 and M2. Check C1, R94, C79, C78, R89 and other associated components.</p> <p>BLOOMING</p> <p>Check by substitution V15, V16 and V17. Check M1 and M2. Check C1, T2, and other associated components.</p>
If Satisfactory	If Unsatisfactory				
Check T2, T4A, T5, C83, C84, C86, C81, C82, R94 and other associated components.	Check L28, C76, C79, C77, R86, R88, R85 and other associated components.				

GENERAL

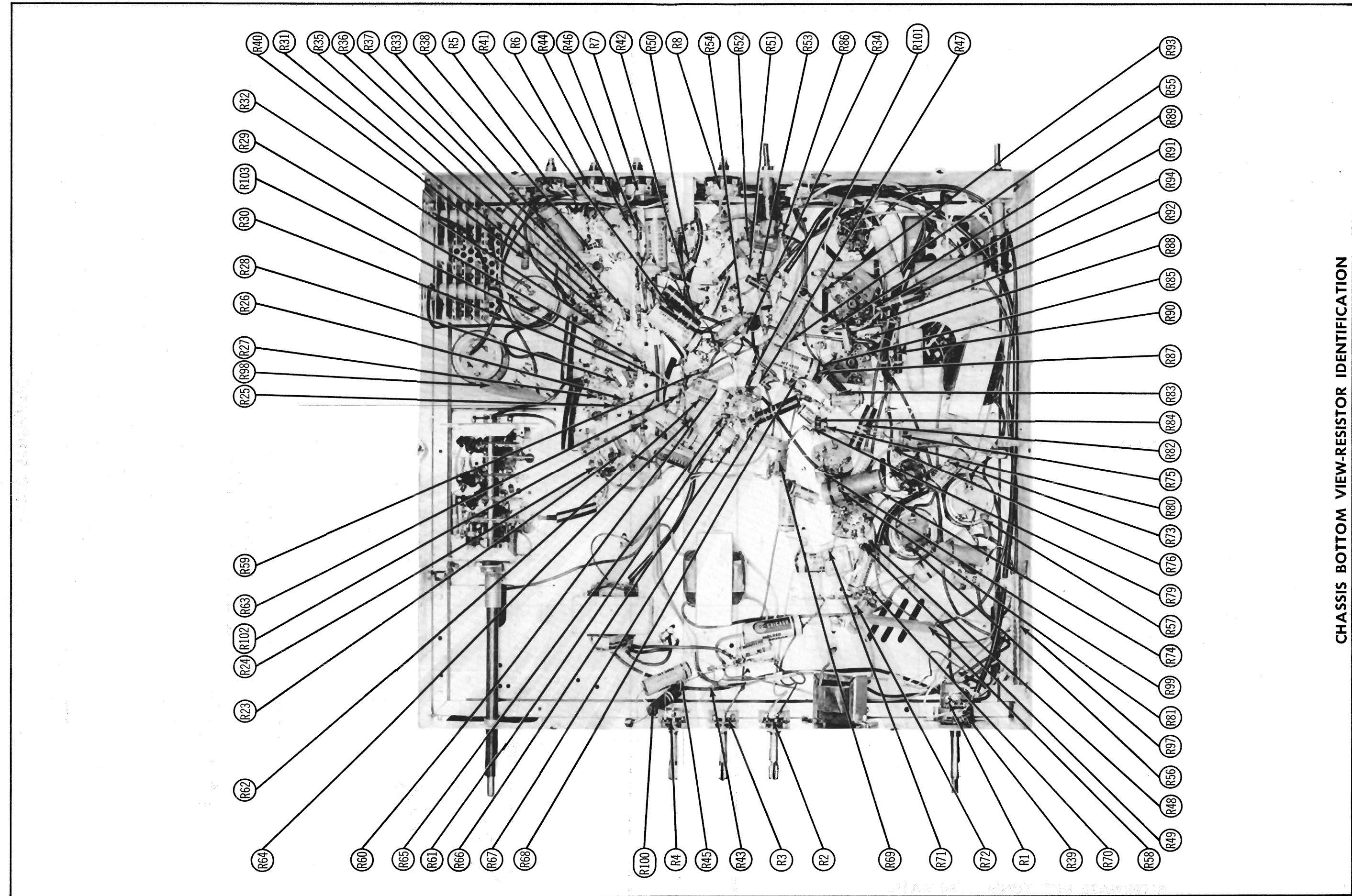
<p>RASTER, SOUND, NO PICTURE</p> <p>Follow procedure outlined under "Loss of Video".</p> <p>RASTER, PICTURE, NO SOUND</p> <p>Follow procedure outlined under "Weak or No Sound".</p> <p>RASTER, NO SOUND, NO PICTURE</p> <p>Check by substitution V1, V2, V3, V4, V5 and V6. Check video IF components for failure or change of value.</p>	<p>NO RASTER, NO SOUND</p> <p>Follow procedure outlined under "Dead Set".</p> <p>KEYSTONE EFFECT</p> <p>Check T4 and its associated components.</p> <p>INTERMITTENT STREAKS</p> <p>Check high voltage section for corona discharge and arcing.</p>
---	---

Symptoms shown are assumed and are not indicative of the quality and workmanship of this equipment.



HIGH VOLTAGE COMPARTMENT

CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

CORONADO MODELS 451V11-43-9027A, -9028A, -9085A, -9086A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
				CORONADO		MEISSNER	MERIT		MILLER
		PRI.	SEC.	PART No.	PART No.	PART No.	PART No.	
L1	Ant. Trans.	.9Ω	0Ω					
L2	Ant. Trans.	.9Ω	0Ω					
L3	Ant. Coil	0Ω						Channel 13 position
L4	Ant. Coils	0Ω						
L5	Fl. Choke	0Ω						
L6	Neut. Coil	0Ω						
L7	RF Coil	0Ω						Channel 13 position
L8	RF Coils	0Ω						
L9	Mixer Grid Coil	0Ω						Channel 13 position
L10	Mixer Grid Coils	0Ω						
L11	Osc. Coil	0Ω						Channel 13 position
L12	Osc. Coils	0Ω						
L13	Osc. Coil	0Ω						Channel 6 position
L14	1st Video IF	.5Ω						
L15	RF Choke	4.6Ω		LC-11	19-7047		4630	52 Microhenries
L16	Fl. Choke	0Ω		LC-1	19-1001		4606	1.4 Microhenries
L17	2nd Video IF	.1Ω		LV-9	17-1003	TV-102 *	6249	1.4 Microhenries
L18	Fl. Choke	0Ω		LC-1	19-1001		4606	
L19	3rd Video IF	.2Ω	.2Ω	LV-9	17-1003	TV-102 *	6249	
L20	4th Video IF	.2Ω	.2Ω	LV-9	17-1003	TV-102 *	6249	
L21	Series Peaking Coil	8.5Ω		LP-17	19-3160 ■	TV-184 ■	4644 ■	145 Microhenries; Wound on 10KΩ resistor
L22	Shunt Peaking Coil	9.5Ω		LP-12A	19-3500	TV-188	6174	440 Microhenries
L23	4.5MC Trap	2.6Ω	2.6Ω	LTO-13	16-3445	TV-113	6203	
L24	Series Peaking Coil	8.5Ω		LP-18	19-3160 ■	TV-184 ■	4644 ■	155 Microhenries
L25	Series Peaking Coil	9.5Ω		LP-12A	19-3500	TV-188	6174	440 Microhenries
L26	Sound IF	1.6Ω		LIF-11	16-3445 ▲	TV-113 ▲	1470A ▲	
L27	Quadrature Coil	4.2Ω		LIF-8-C	16-3445 †	TV-113 †	1470A	
L28	Horiz. Osc.	54Ω		LHO-2-E	19-1576	TV-163	6210	

* Enlarge mounting holes.
■ Parallel with 10KΩ resistor.
▲ Reverse coil in can.
† Use one winding only.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 °C)	CORONADO PART No.	Stancor PART No.	Merit PART No.	Triad PART No.	Hallderson PART No.	Thordarson PART No.
L29	.230A	66Ω	2HY	LC-9	C-2325	C-2996	C-17X	C5030 ①	

① Drill one new mounting hole.

SELENIUM RECTIFIER

ITEM No.	RATING	REPLACEMENT DATA						NOTES
	CURRENT	CORONADO PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	SARKES TARZIAN PART No.	SELETRON PART No.	
M1	.270A	SR-350	1238A	RS350	6S350	350A	6Q4	
M2	.270A	SR-350	1238A	RS350	6S350	350A	6Q4	

FUSES

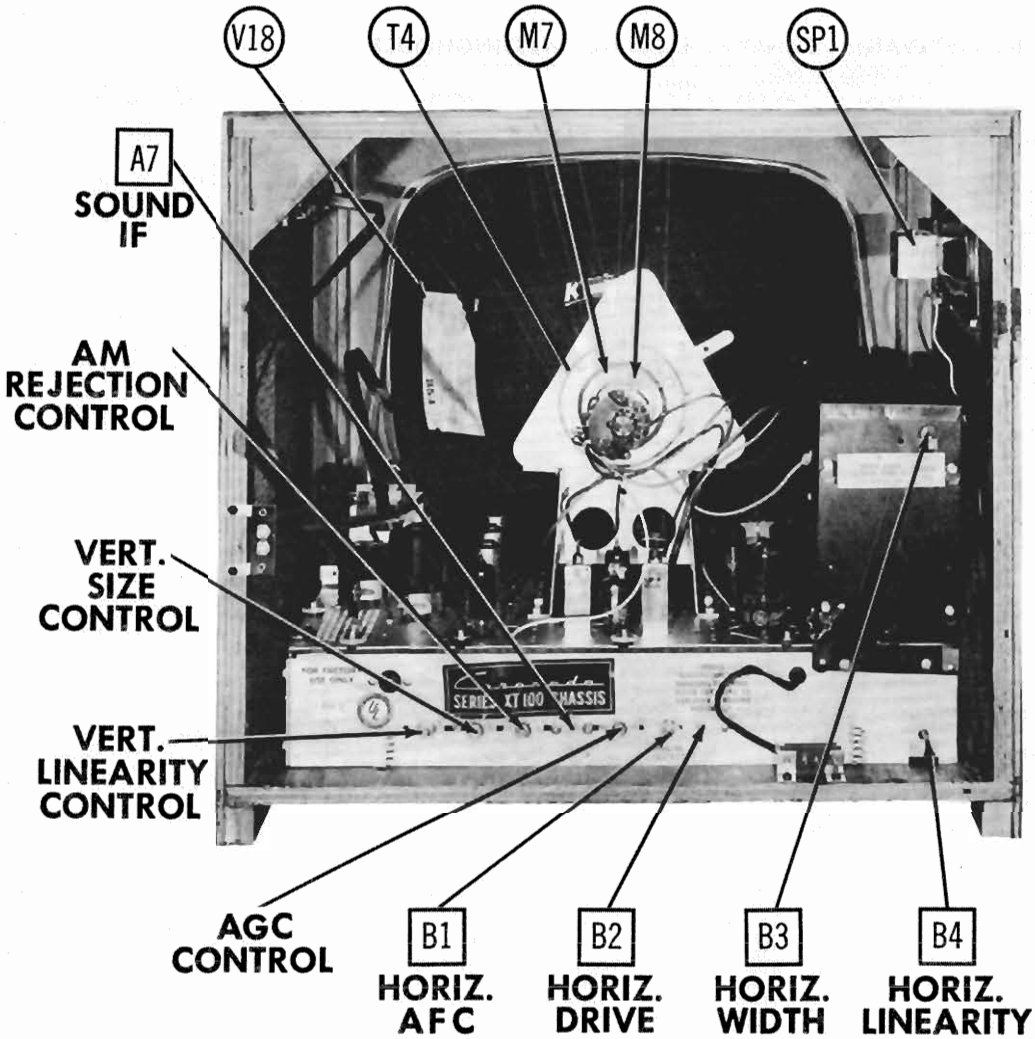
ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			CORONADO PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M3	3AG-P/T	1½A 250V	FE-4		3150L 5 (1½A-3AG P/T-S10-B10)		MDV 1½	
M4	S10-B10 3AG P/T	1½A 250V	FE-5		318.500 (1½A-3AG P/T)		GJV-½	

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		CORONADO PART No.	SYLVANIA PART No.	FEDERAL PART No.	
M5	1N64A		1N60 or 1N132	1N60 or 1N64A	Video Detector

MISCELLANEOUS

ITEM No.	PART NAME	CORONADO PART No.	NOTES
M6	Tuner		VHF
M7	Focus Magnet	LF-8	Includes centering device
M8	Ion Trap	IT-1A	Alternate part #IT-5
M9	Switch		Antenna
B2	Trimmer Cap.	CT-6	Horiz. Drive (25-280MMF)



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.
Set the horizontal hold control to its mid-range position.
Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.
Adjust the horizontal drive trimmer (B2) for the best compromise between brightness and horizontal linearity.
Adjust the width slug B3 for a picture slightly wider than necessary to fill the picture mask horizontally.
Adjust the horizontal linearity slug B4 for a picture that is symmetrical from left to right.

CORONADO MODELS 45TV11-43-9027A, -9028A, -9085A, -9087A, -9088A, -9089A, -9090A, -9091A, -9092A, -9093A, -9094A, -9095A, -9096A, -9097A, -9098A, -9130A, -9131A (Series XT-100)

TUBES (SYLVANIA, GENERAL ELECTRIC, WESTINGHOUSE)

ITEM No.	USE	REPLACEMENT DATA		RETN. BASE TYPE	NOTES
		CORONADO PART No.	STANDARD REPLACEMENT		
V1	RF Amplifier Converter	6BK7A	6BK7A	9AJ	
V2	1st. Video IF Amp.	6AG5	6AG5	7BF	
V3	2nd. Video IF Amp.	6CB6	6CB6	7CM	
V4	3rd. Video IF Amp.	6CB6	6CB6	7CM	
V5	Video Output	12BY7	12BY7	9BY	
V6	DC Restorer-Vert. Mult.	12AU7	12AU7	9A	
V7	Sound IF Amp.	6AU6	6AU6	7BK	
V8	Audio Detector	6BN6	6BN6	7DF	
V9	Audio Output	25L6GT	25L6GT	7S	
V10	Sync Separator-Sync Phase Inv.	12AU7	12AU7	9A	
V11	Vert. Mult.-Vert. Output	25L6GT	25L6GT	7S	
V12	Horiz. AFC	6AL5	6AL5	6BT	
V13	Horiz. Mult.	6SN7GT	6SN7GT	8BD	
V14	Horiz. Output	25BQ6GT	25BQ6GT	6AM	
V15	Damper	25W4	25W4	4CG	
V16	HV Rectifier	1B3GT	1B3GT	3C	

CATHODE-RAY TUBE

ITEM No.	REPLACEMENT DATA				RETN. BASE TYPE	NOTES
	CORONADO PART No.	CBS-HYTRON PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.		
V18	17BP4A	17BP4A	17BP4A 17BP4B ①	17BP4A 17BP4B ②	12N 12D	① Aluminized ② Circuit changes necessary.

CAPACITORS

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

ITEM No.	RATING		REPLACEMENT DATA							NOTES
	CAP.	VOLT	CORONADO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1	200	150	CEM-9-E	AFH1-71		XB006		FP108	TVL-1431	
C2A	150	300	CEM-21	AFH1-73		B027		FP218	TVL-2591	
B	10	300		PRS350/10		BR103		TC77		
C3A	120	300	CEM-11	AFH1-73		B070		FP218	TVL-3585	
B	40	300		PRS450/40				TC65		
C4A	25	25	CEM-12	AFH3-132				FP367.5	TVL-4732	
B	40	300								
C	20	450								
C5	100	25	CET-5	PRS25/100		BRH251		TC2501	TVA-1207	
C6	270			SI270	D6-271			UC-5327	5GA-T27	
C7	270			SI270	D6-271	TP41		UC-5327	5GA-T27	
C8	39			SI270	D6-271	TP41		UC-5327	5GA-T27	
C9	1000			BPD-001	DD-102	K069	801-001	DC-521	5HK-D1	
C10	1000			EF-001	MFT-1000					
C11	1000			BPD-001	DD-102	K069	801-001	DC-521	5HK-D1	
C12	1-6				829-6					
C13	270			SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27	
C14	1.5			SI1.5NP0	TCZ-1.5	TZ04	NP0K-IR5	ZT-5515	5TCCB-V15	
C15	5-3				829-3					
C16	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C17	100			SI1.5NP0	TCZ-1.5	TZ04	NP0K-IR5	ZT-5515	5TCCB-V15	
C18	2.2									
C19	39									
C20	1000			BPD-001	DD-102	K069	801-001	DC-521	5HK-D1	
C21	10			SI10NP0	TCZ-10	TZ09	NP0K-100	ZT-541	5TCC-Q1	
C22	270			SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27	
C23	270			SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27	
C24	1000			BPD-001	DD-102	K069	801-001	DC-521	5HK-D1	
C25	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C26	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C27	1			P488-1	DF-104	CUB4P1		PT401	4TM-P1	
C28	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C29	1000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C30	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C31	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C32	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C33	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C34	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C35	5000			BPD-005	DD-502	K080	811-005	DC-525	5HK-D5	
C36	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C37	2000			BPD-002	DD-202	K072	811-002	DC-522	5HK-D2	
C38	10			SI10	D6-100	TP09	GP1K-100	UC-541	5GA-Q1	
C39	1	400		P488-1	DF-104	CUB4P1		PT401	4TM-P1	
C40	1	400		P488-1	DF-104	CUB4P1		PT401	4TM-P1	
C41	1	400		P488-1	DF-104	CUB4P1		PT401	4TM-P1	
C42	1	200		P288-1	DF-104	CUB2P1		PT401	4TM-P1	
C43	5000			BPD-005	DD-502	K080	811-005	DC-525	5HK-D5	
C44	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C45	1	600		CP-4-01	P688-1	DF-104	CUB6P1	PT601	6TM-P1	
C46	47			CC-447	SI47	D6-470	TP29	GP1K-470	5GA-Q47	
C47	1	400		CP-2-01	P488-1	DF-104	CUB4P1	PT401	4TM-P1	
C48	47			CC-447	SI47	D6-470	TP29	GP1K-470	5GA-Q47	
C49	5000			CC-25	BPD-005	DD-502	K080	811-005	DC-525	
C50	2000			CC-22	BPD-002	DD-202	K072	811-002	DC-522	
C51	0.1	600		CP-6-12	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	
C52	0.1	600		CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	
C53	0.001	600		CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	
C54	0.05	600		CP-6-15	P688-05	DF-503	CUB6S1	GP2L-102	PT601	
C55	0.1	1000		CP-10-11	P1088-01	DF-503	CUB16S1	PT601	6TM-S1	
C56	5000			CC-25	BPD-005	DD-502	K080	811-005	DC-525	
C57	1	600		CP-6-01	P688-1	DF-104	CUB6P1	PT601	6TM-P1	
C58	0.1	600		CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	
C59	220	500		CM-322	1469-00025			22R5T22	MCB240	
C60	0.1	600		CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	
C61A	0.0022							PT622	6TM-S1	
B	0.0047			•CRP-3	•PA-110	•PC-100	•115TM1	•1405-01	•V-1	
C	0.0047							PT625		

PARTS LIST AND DESCRIPTIONS

CAPACITORS (cont)

ITEM No.	RATING		REPLACEMENT DATA							NOTES
	CAP.	VOLT	CORONADO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C62	0.05	600	CP-6-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C63	0.005	600	CP-6-25	P688-005	D6-502	CUB6D5	GP2-333-502	PT625	6TM-D5	
C64	0.05	600	CP-6-15-9	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C65	0.05	600	CP-6-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C66	4700	1000	CM-247A-1	P688-002	D6-202	CUB6D2	GP2-333-202	PT622	6TM-D2	
C67	0.002	600	CP-6-22	P688-002	D6-202	CUB6D2				
C68	4700	1000	CM-274A-1	P688-002	D6-202	CUB6D2				
C69	0.1	500	CP-6-01-3	P688-1	DF-104	CUB6P1		PT601	6TM-P1	
C70	0.1	600	CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	6TM-S1	
C71	0.001	600	CP-6-21	P688-001	D6-102	CUB6D1	GP2L-102	PT621	6TM-D1	
C72	0.001	600	CP-6-21	P688-001	D6-102	CUB6D1	GP2L-102	PT621	6TM-D1	
C73	0.1	600	CP-6-11	P688-01	D6-103	CUB6S1	GP2-333-103	PT601	6TM-S1	
C74	0.005	600	CP-6-25	P688-005	D6-502	CUB6D5	GP2-333-502	PT625	6TM-D5	
C75	0.05	600	CP-6-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C76	3900	500	CM-239	1464-004		IR5D39		MCB463	MS-24	
C77	330	800	CM-333A	1469-00035		5R5T33				
C78	220	500	CM-322	1469-00025		22R5T22		MCB240		
C79	680	500	CC-368	1479-0007		SR5T68				
C80	5	5000	CHV-55-5X	HVD60-50000	DD60-4R7				MS-37 50GA-V17	Note 2
C81	820	500	CM-382	P688-05	DF-503	SR5T82				
C82	0.05	600	CP-6-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C83	0.03	1000	CO-10-13	P1088-03		CUB16S3		PT613	MB-S1	
C84	0.03	1000	CO-10-13	P1088-03		CUB16S3		PT613	MB-S1	
C85	500	20000	CHV-35-20A	HV20C	TV3-502	MMU20T5	413	HV20035A	20DK-T5	
C86	25	400	CP-4-025	P488-25		CUB4P25		PT4025	4TM-P25	
C87	47	4000								
C88	0.05	600	CP-4-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C89	0.05	600	CP-6-15	P688-05	DF-503	CUB6S5		PT615	6TM-S5	
C90	270			SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27	Note 1
C91	270			SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27	Note 1

Note 1. Not used in all Models.

Note 2. Some models use 820MMF in this application.

Note 3. Some models use 270MMF in this application.

• Items C61A, C61B, C61C, R69A, R69B, R69C are combined in one unit.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST- ANCE	WATTS	CORONADO PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	MALLORY PART No.	
RIA	2500Ω	$\frac{1}{2}$	PD-10A	* QJ-332	RTV-330	F1-17	UF252-T23	Contrast (Tapped @ 1500Ω Not used) Panel
B	500KΩ	$\frac{1}{2}$				R2-41	UR55A	Volume-Rear
C	Switch	$\frac{1}{2}$				KB-1	US-26	Attach to RIB
R2A	1 Meg	$\frac{1}{2}$	P-17B	Q11-137	A47-1Meg-S	AB-69	U-54	Vert. Hold
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	KSS-3	AK-4	Not Req.	Attach to R2A
R3A	50KΩ	$\frac{1}{2}$	P-18B	Q11-123	A47-50K-S	AB-31	U-35	Horiz. Hold
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	KSS-3	AK-4	Not Req.	Attach to R3A
R4A	100KΩ	$\frac{1}{2}$	P-19B	Q11-128	A47-100K-S	AB-40	U-41	Brightness
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	FKS-1/4	AK-4	Not Req.	Attach to R4A
R5A	5000Ω	$\frac{1}{2}$	P-2D	Q11-114	A47-5000-S	BX-10	SU-14	Vert. Linearity
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.	Attach to R5A
R6A	2.5Meg	$\frac{1}{2}$	P-5D	Q11-239	A47-2.5Meg-S	BX-83	US-565	Vert. Size
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.	Attach to R6A
R7A	1000Ω	$\frac{1}{2}$	P-12D	Q11-108	A47-1000-S	AB-5	U-4	AM Rejection
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	FKS-1/4	AK-1	Not Req.	Attach to R7A
R8A	2.5Meg	$\frac{1}{2}$	P-5D	Q11-239	A47-2.5Meg-S	BX-83	SU-565	AGC
B	Shaft	$\frac{1}{2}$	Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.	Attach to R8A