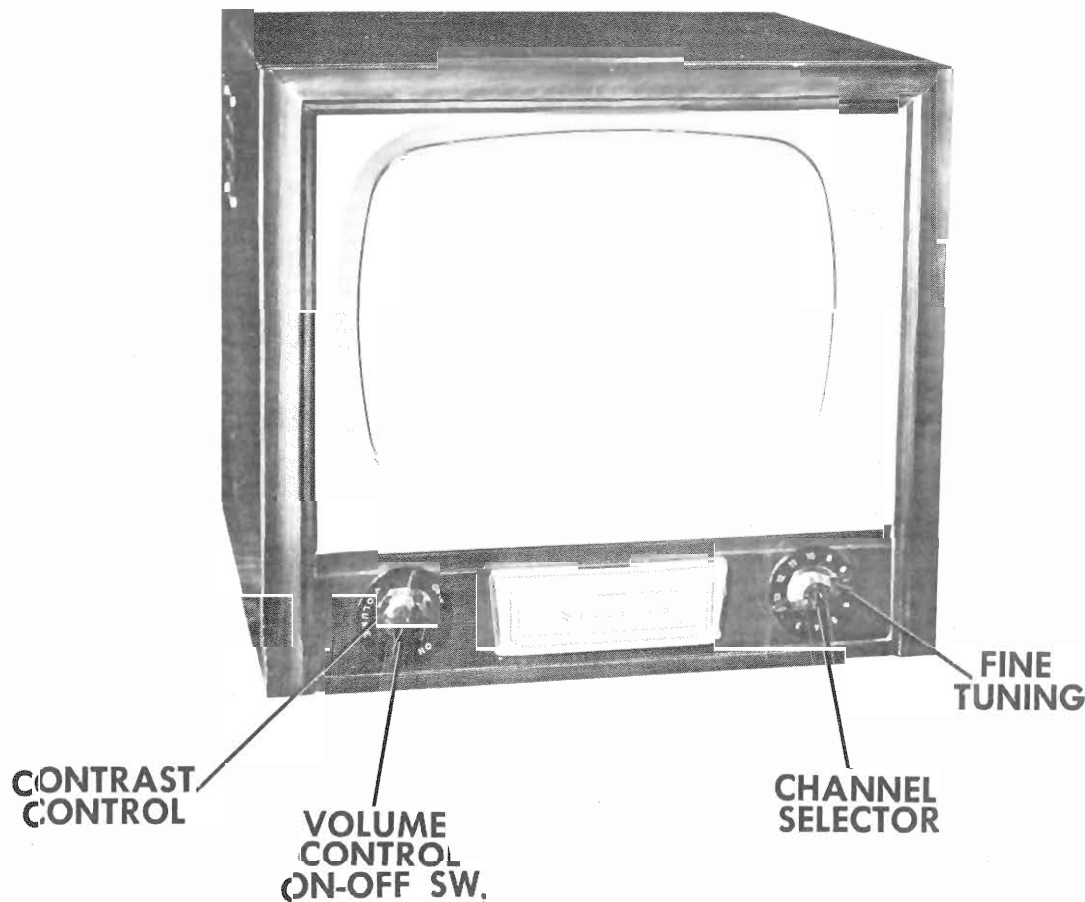


EW-RESISTOR IDENTIFICATION



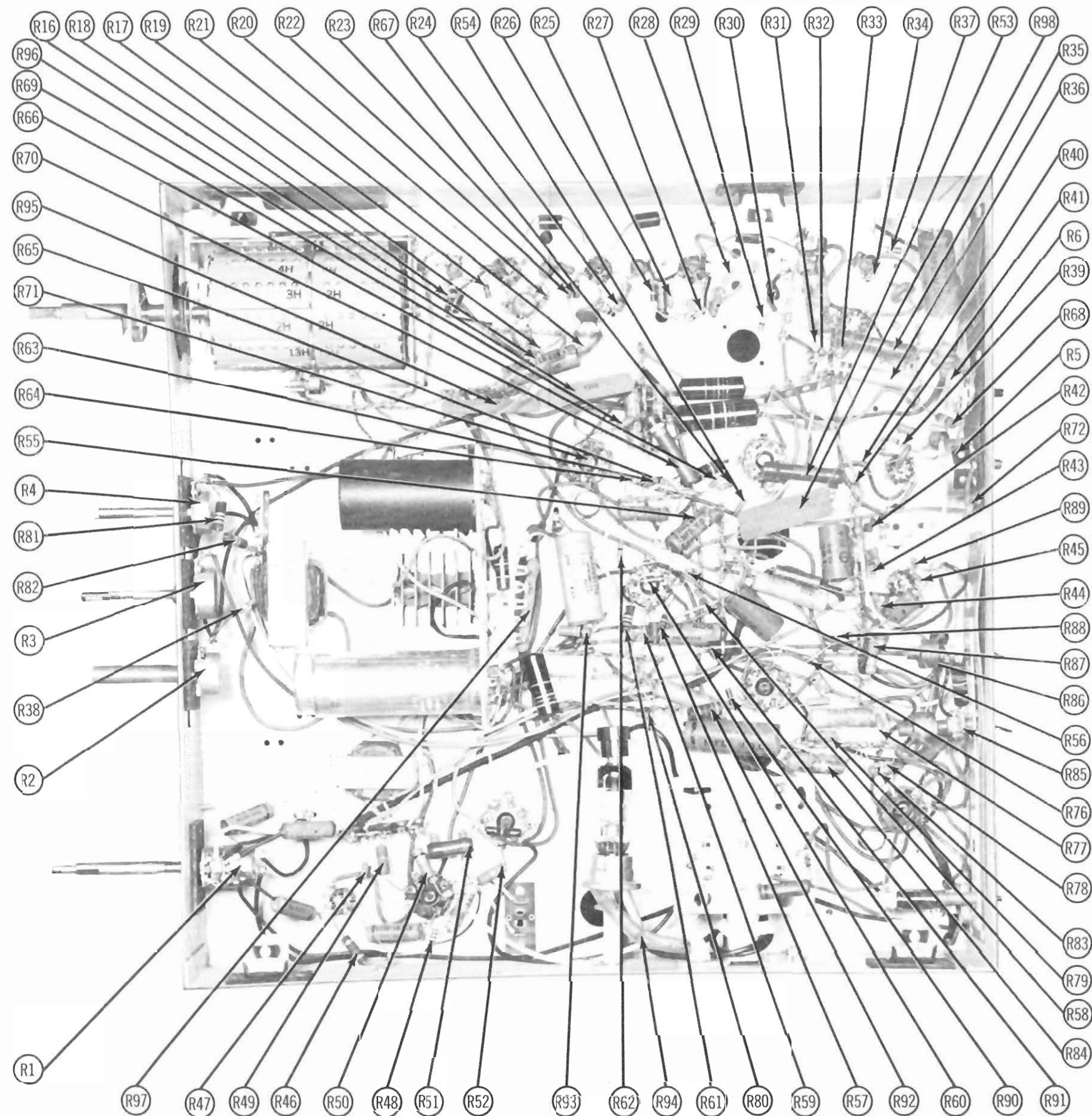
SHERATON MODEL T-1755	
TRADE NAME	Sheraton Models C-2125, T-1755, T-2155 (Series 250XL)
MANUFACTURER	Sheraton Television Corp., 200 River St., Red Bank, N.J.
TYPE SET	Television Receiver
TUBES	Eighteen
POWER SUPPLY	110-120 Volts AC-60 Cycle
TUNING RANGE	Channels 2 thru 13, Video IF 26.25MC, Sound IF 21.75MC (Intercarrier)
RA TING	.15 Amp. @ 117 Volts
INDEX	
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Disassembly Instructions	18
Horizontal Sweep Circuit Adjustments	11
Parts List and Descriptions	14, 15, 16
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Capacitor Identification	4, 9
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Tube Failure Check Chart	5
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Tube Placement Chart (Top View)	5

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SHERATON MODELs
C-2125, T-1755, T-2155 (Series 250XL)



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

CONTRAST CONTROL

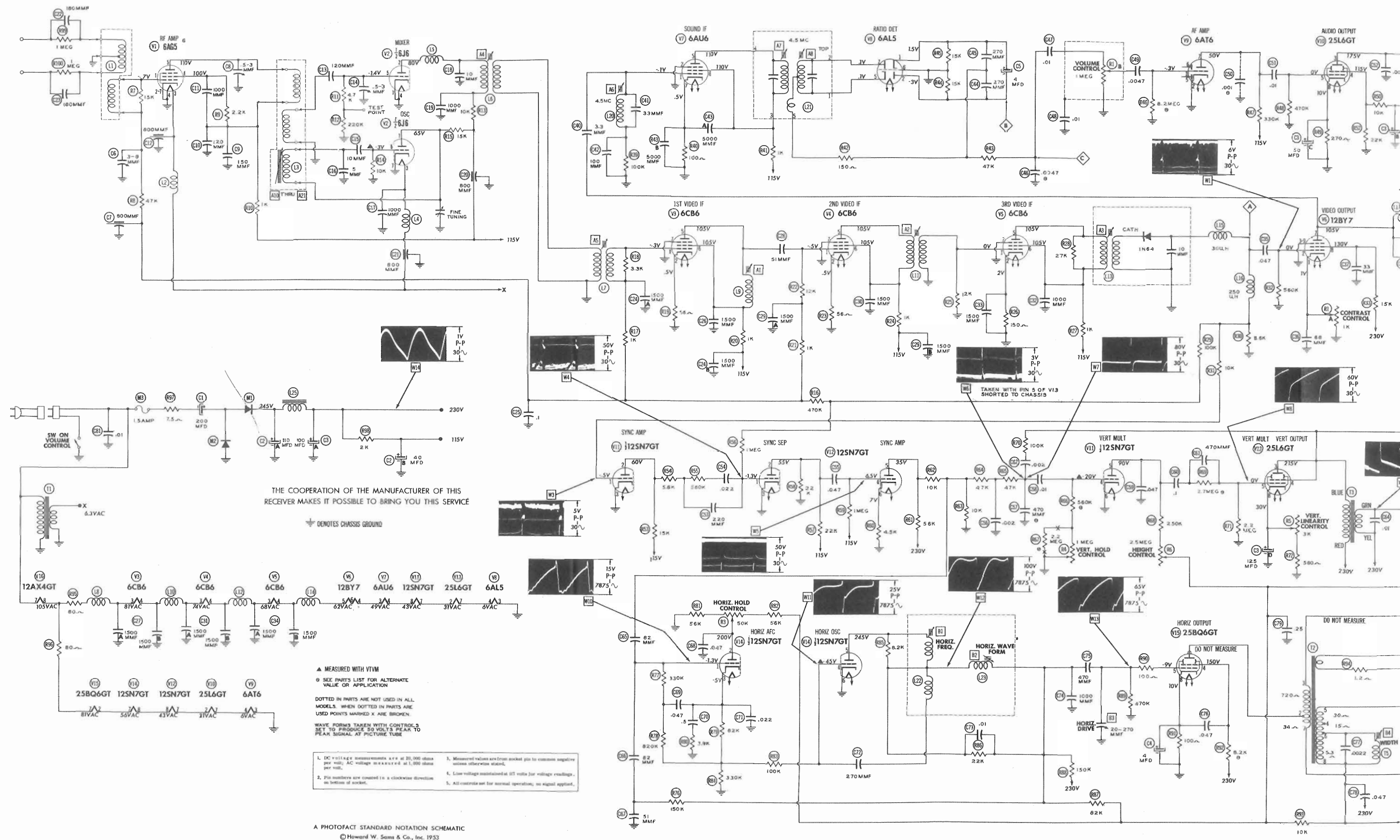
TRADE NAME	Sheraton 1
MANUFACTURER	Sheraton 1
TYPE SET	Television
TUBES	Eighteen

POWER SUPPLY 110-120 V_o
TUNING RANGE— Channels :

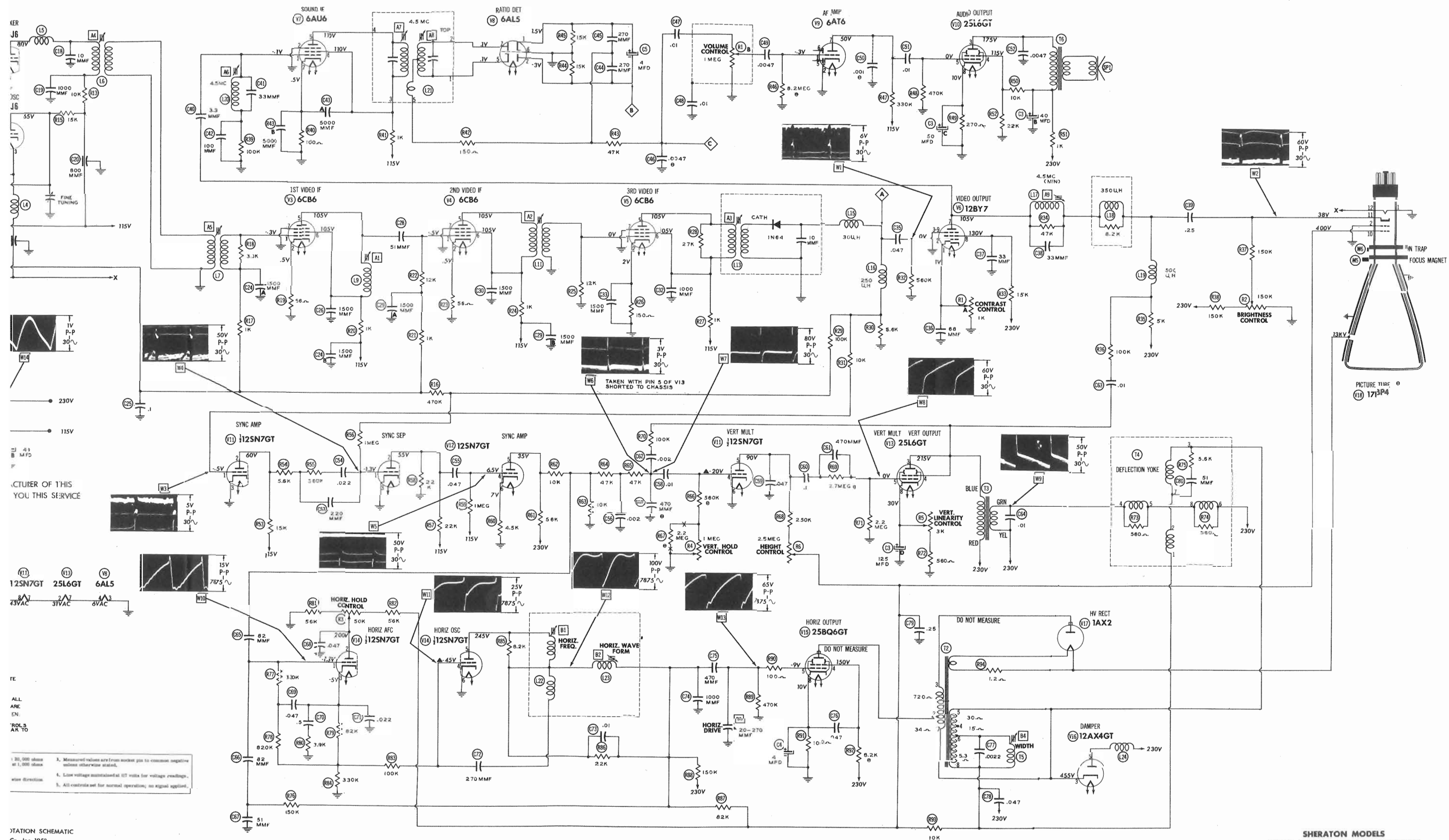
Alignment Instructions
Disassembly Instructions
Horizontal Sweep Circuit Ad.
Parts List and Descriptions
Photographs
Cabinet-Rear View
Capacitor Identification
Chassis-Top View
RF Tuner
Resistor Identification

HOW

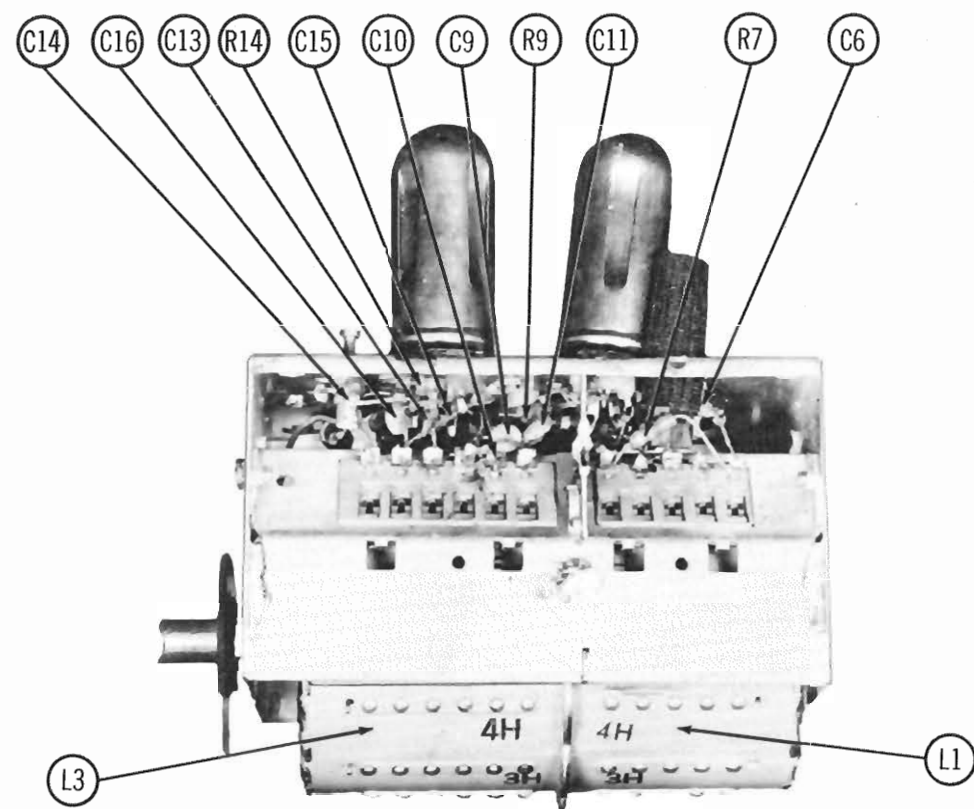
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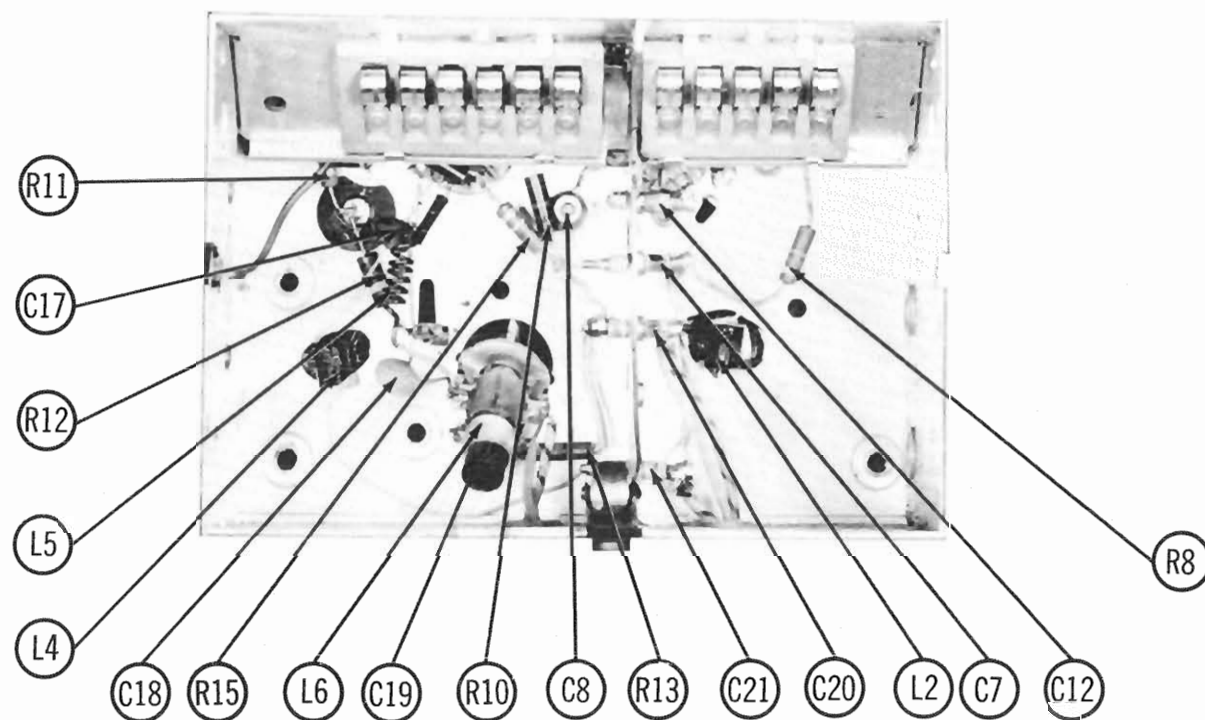
SHERATON
MODELS C-2125, T-1755, T-2155 (Series 250XL)



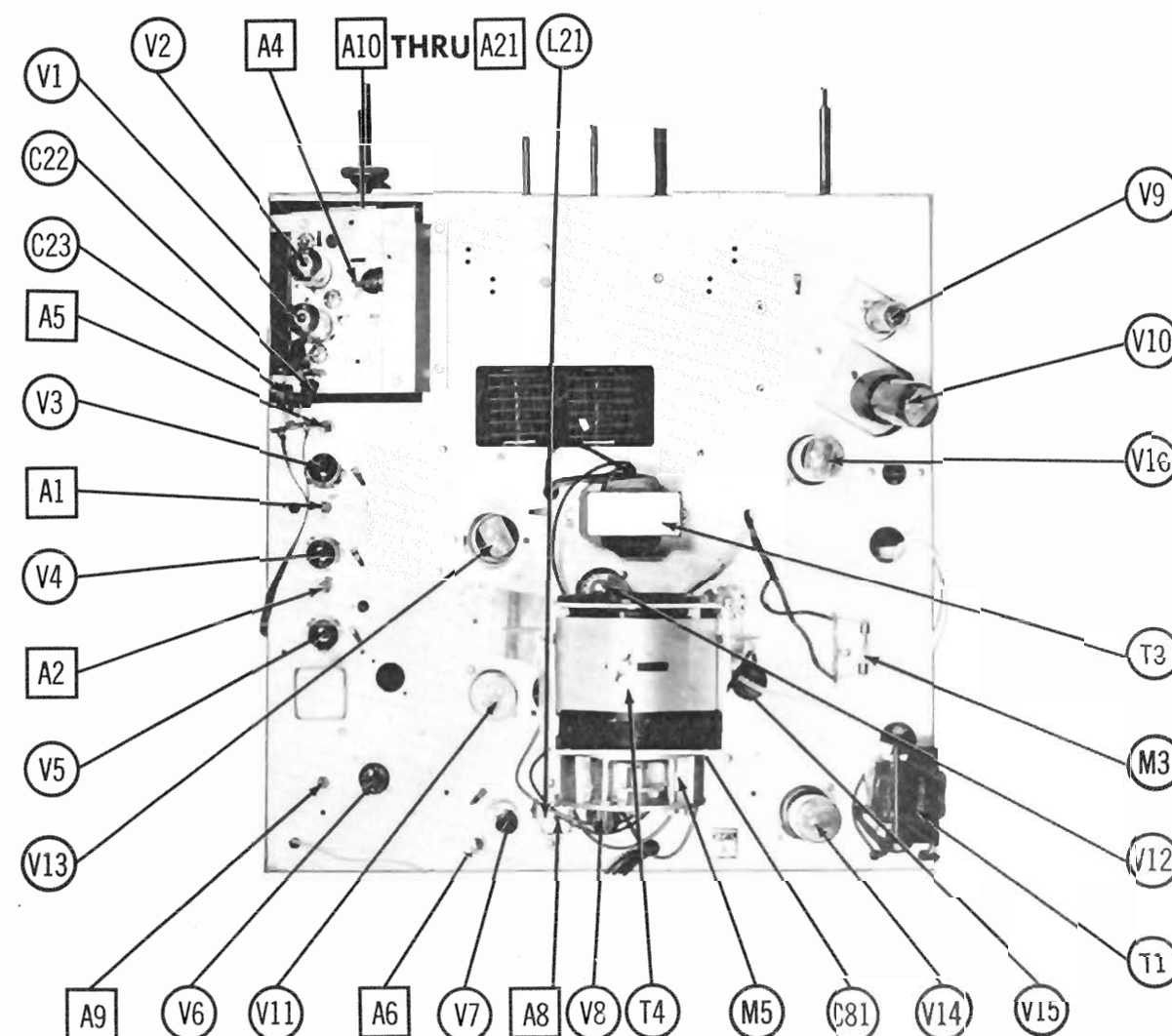
SHERATON MODELS
C-2125, T-1755, T-2155 (Series 250XL)



RF TUNER-RIGHT SIDE



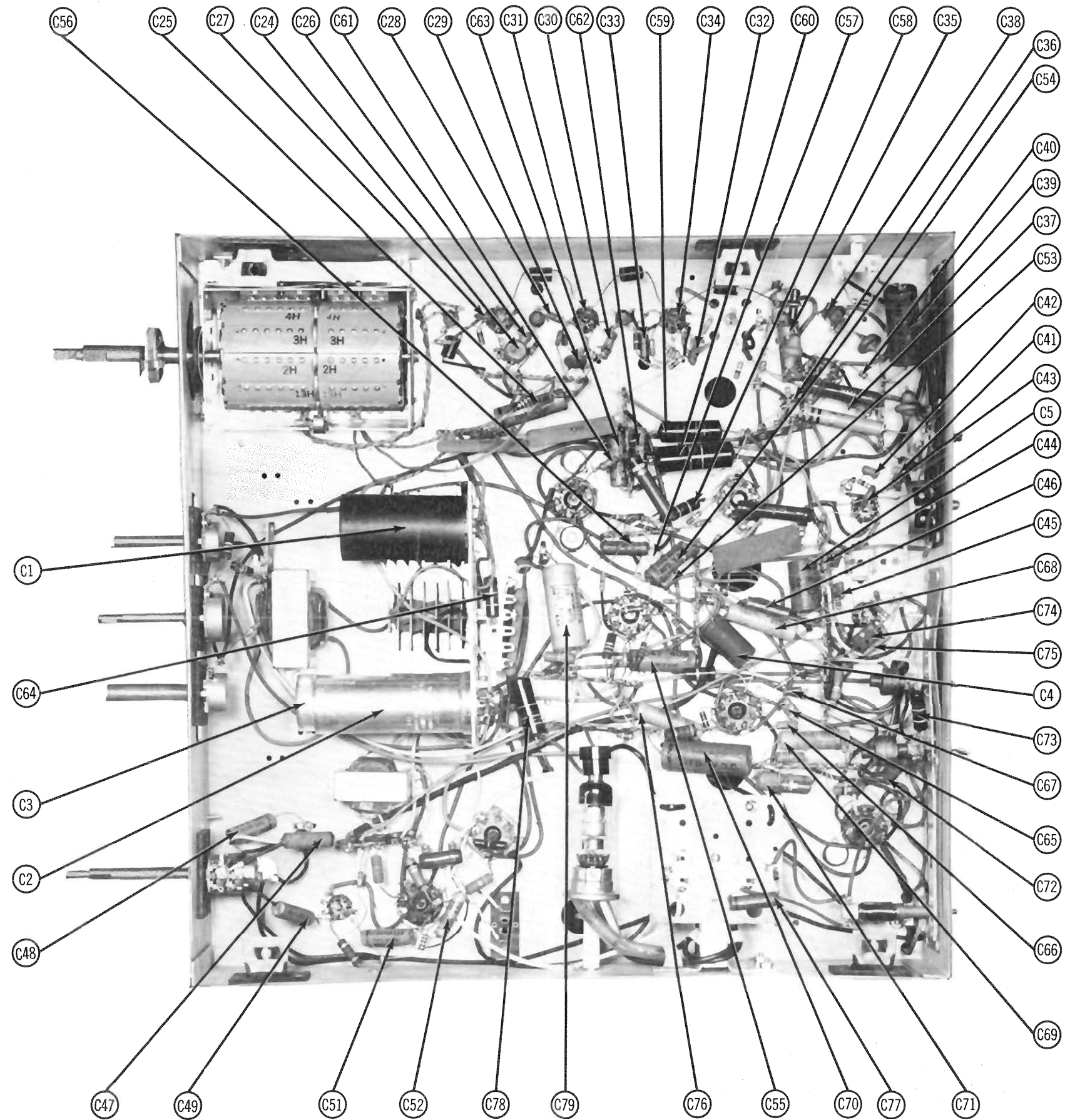
RF TUNER-BOTTOM VIEW



CHASSIS TOP VIEW

SHERATON
MODELS C-2125, T-1755, T-2155 (Series 250XL)

SHERATON
MODELS C-2125, T-1755, T-2155 (Series 250XL)



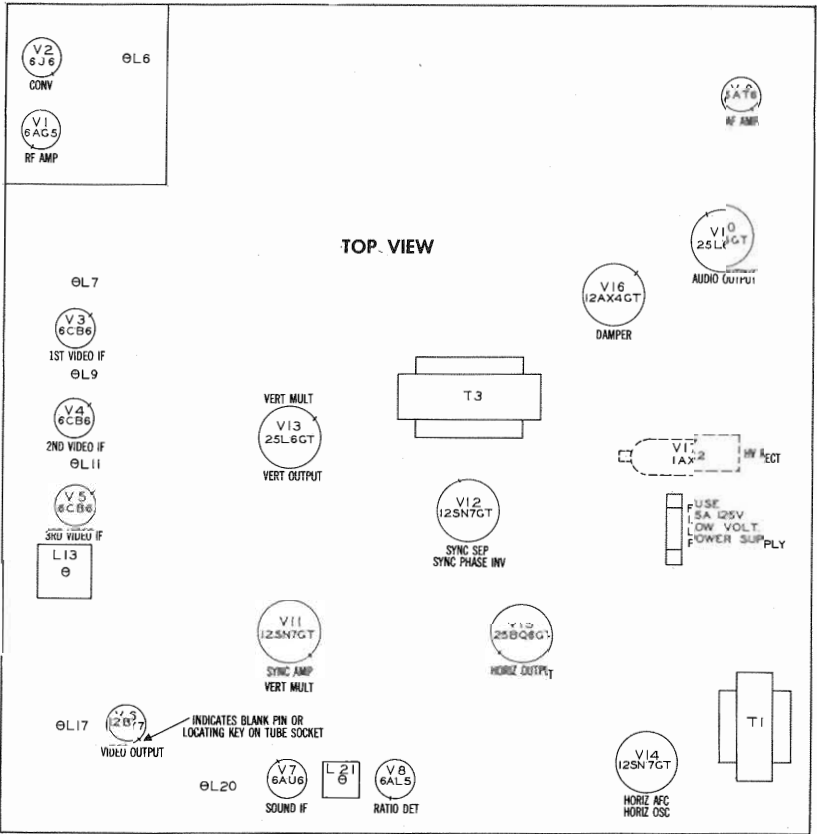
CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

RESISTANCE MEASUREMENTS

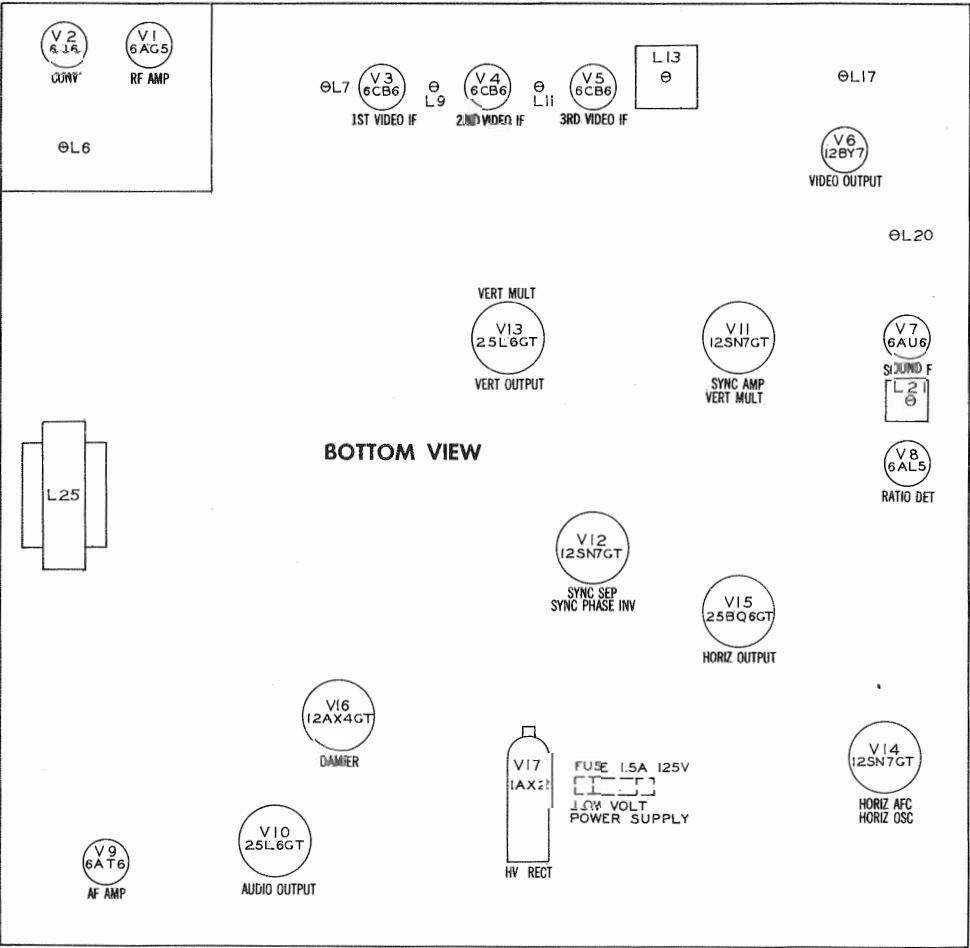
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	810KΩ	0Ω	.1Ω	0Ω	†3KΩ	†5.2KΩ	0Ω		
V 2	6J6	†17KΩ	†12KΩ	.1Ω	0Ω	225KΩ	10KΩ	0Ω		
V 3	6CB6	580KΩ	58Ω	30Ω	29Ω	†3KΩ	†3KΩ	0Ω		
V 4	6CB6	590KΩ	56Ω	29Ω	28Ω	†3KΩ	†3KΩ	0Ω		
V 5	6CB6	.5Ω	150Ω	28Ω	26Ω	†3KΩ	†3KΩ	0Ω		
V 6	12BY7	40Ω	560KΩ	0Ω	24Ω	26Ω	INF	†5KΩ	†15KΩ	0Ω
V 7	6AU6	100KΩ	0Ω	24Ω	22Ω	†3KΩ	†3KΩ	100Ω		
V 8	6AL5	15KΩ	15KΩ	0Ω	3Ω	INF	0Ω	INF		
V 9	6AT6	8.2Meg	0Ω	0Ω	5Ω	INF	INF	†330KΩ		
V 10	25L6GT	INF	22Ω	†1.2 KΩ	†8.3KΩ	470KΩ	INF	4Ω	270Ω	
V 11	12SN7GT	16KΩ	†17KΩ	0Ω	850KΩ	†1Meg	0Ω	13Ω	22Ω	
V 12	12SN7GT	1.1Meg	†14KΩ	0Ω	†1Meg	†21KΩ	4.5KΩ	22Ω	27Ω	
V 13	25L6GT	0Ω	17Ω	†755Ω	†755Ω	2.2Meg	INF	3Ω	1.3KΩ	
V 14	12SN7GT	1.5Meg	†70KΩ	410KΩ	430KΩ	†150KΩ	0Ω	31Ω	27Ω	
V 15	25BQ6GT	†300KΩ	31Ω	†16.5KΩ	†8.2KΩ	470KΩ	470KΩ	34Ω	100Ω	TOP CAP †34Ω
V 16	12AX4GT	INF	†56Ω	100KΩ	INF	†60 Ω	INF	3Ω	6Ω	
V 17	1AX2	PINS 1 - 9 HAVE INF RESISTANCE								TOP CAP †700Ω
V 18	17BP4	0Ω	0Ω	Pin 10 †10KΩ	Pin 11 180KΩ	Pin 12 .1Ω				

NOTE: FILAMENT RESISTANCE MEASUREMENTS INCLUDE PARALLEL EFFECT OF T1 PRIMARY.
† MEASURED FROM OUTPUT OF M1.
‡ MEASURED FROM PIN #3 OF V16.

TUBE PLACEMENT CHART



SHERATON MODELS
C-2125, T-1755, T-2155 (Series 250XL)



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.

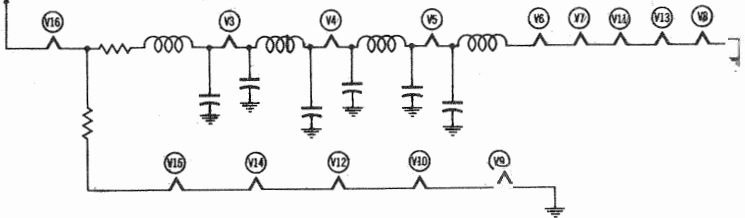
POWER SUPPLY FAILURE
No raster, no sound - Selenium Rectifier (M1 & M2), Fuse(M3)

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 - V8, V18
Has pic, no sound - V7, V8, V9, V10

SYNC FAILURE
No vert. sync - V11, V12, V13
No horiz. sync - V12, V14
No vert. or horiz. sync - V11, V12

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

NOTE: 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).



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use an isolation transformer to protect the test equipment.
The high voltage shock hazard can be eliminated by removing the horizontal oscillator tube (V14).

VIDEO IF ALIGNMENT

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
1. .01MFD	High side to pin 1 (grid) of 6CB6. Low side to chassis.	Not used	23.5MC	Any not used locally	Use VTVM. DC probe thru 22K Ω to point A. Common to chassis.	A1	Connect the negative lead of a 3 Volt battery to the ungrounded side of C25. Connect the positive lead to chassis. Adjust for maximum deflection.
2. "	"	"	25.75MC	"	"	A2	"
3. "	"	"	24.6MC	"	"	A3	"
4. Two 120 Ω Carbon Resistors	Across antenna terminals with 120 Ω in each lead.	Set sweep to a low band channel. (10MC Swp)	21.75MC 26.25MC	Low band channel not used locally	Vert. Amp. of scope thru detector (Fig. 1) to pin 5 (plate) of 6CB6 (V3). Low side to chassis.	A4, A5	Replace 3 volt battery in step 3 with a 1½ volt battery. Adjust for response curve similar to Fig. 2.
5. Check overall video IF response for curve similar to Fig. 3. If necessary, retouch A1 thru A3 for desired response.							

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
6. .01MFD	High side to point A. Low side to chassis.	4.5MC (Unmod.)	Any	DC probe to point B. Common to chassis.	A6, A7	Adjust for maximum deflection.
7. "	"	"	"	DC probe to point C. Common to chassis.	A8	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

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

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. .01MFD	High side to point A. Low side to chassis.	4.5MC (450KC Swp)	4.5MC	Any	Vert. Amp. to point B. Low side to chassis.	A6, A7	Disconnect stabilizing capacitor C5. Adjust for curve of maximum amplitude and symmetry as in Fig. 3.
7. "	"	"	"	"	Vert. Amp. to point C. Low side to chassis.	A8	Reconnect capacitor C5. Adjust so that 4.5MC occurs at center of crossover lines as in Fig. 4. SLIGHTLY retouch A7 for maximum amplitude and straightness of crossover lines.

4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
8. .01MFD	High side to point A. Low side to chassis.	4.5MC (Unmod.)	Any	DC probe thru detector to pin 11 of picture tube Common to chassis.	A9	Adjust for MINIMUM deflection.

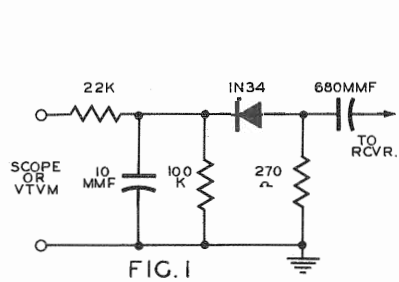


FIG. 1

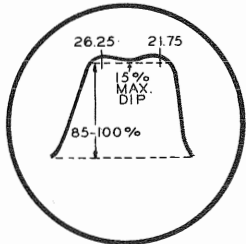



FIG. 2

ALIGNMENT INSTRUCTIONS (cont)

OSCILLATOR ALIGNMENT											
The channel oscillator adjustment screws are reached through a hole just to the right of the channel switch shaft. The correct adjustment screw is accessible through this hole as the channel switch is turned to each channel. 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				
Two 120Ω Carbon resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	13	Vert. Amp. thru 27KΩ to point  Low side to chassis.	A10	Adjust to place sound marker as in Fig. 5. Video marker should be at 50%.				
		207MC (10MC Swp)	205.25MC 209.75MC	12		A11					
		201MC (10MC Swp)	199.25MC 203.75MC	11		A12					
		195MC (10MC Swp)	193.25MC 197.75MC	10		A13					
		189MC (10MC Swp)	187.25MC 191.75MC	9		A14					
		183MC (10MC Swp)	181.25MC 185.75MC	8		A15					
		177MC (10MC Swp)	175.25MC 179.75MC	7		A16					
		85MC (10MC Swp)	83.25MC 87.75MC	6		A17					
		79MC (10MC Swp)	77.25MC 81.75MC	5		A18					
		69MC (10MC Swp)	67.25MC 71.75MC	4		A19					
		63MC (10MC Swp)	61.25MC 65.75MC	3		A20					
		57MC (10MC Swp)	55.25MC 59.75MC	2		A21					
		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.									

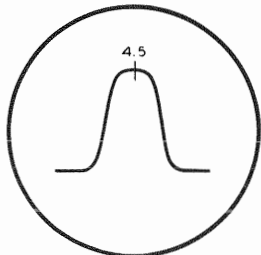


FIG. 3

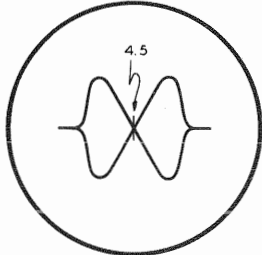


FIG. 4

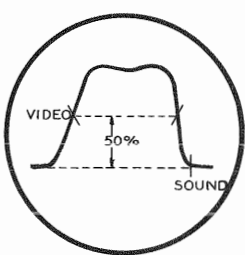


FIG. 5

SHERATON MODELS
C-2125, T-1755, T-2155 (Series 250XL)

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustments of the RF Tuner Oscillator Circuit may be accomplished by removal of the channel selector and fine tuning knobs. The adjustments are accessible, one at a time, through the small hole in the cabinet to the right of the channel selector shaft.

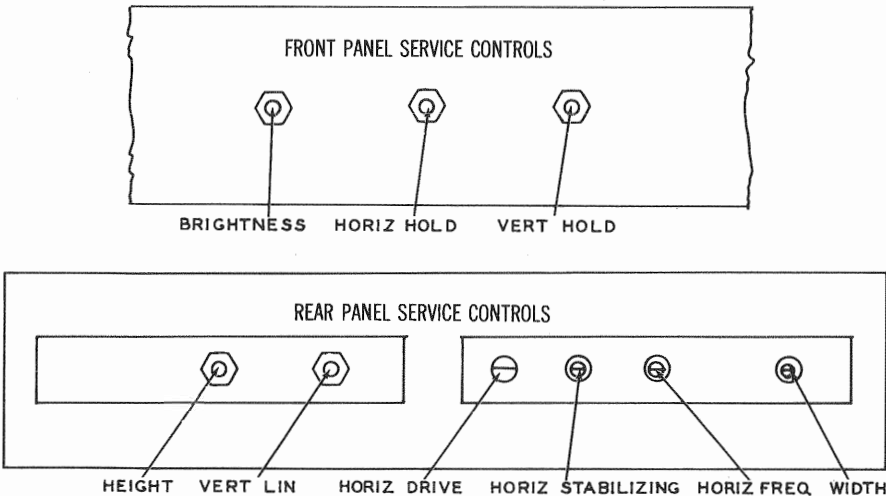
PICTURE TUBE SAFETY GLASS CLEANING

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 (L22) and horizontal stabilizing slug (L23) until the picture synchronizes horizontally.

SOUND IF DETECTOR

To eliminate sound IF detector buzz, adjust the ratio detector secondary (L21) located on top of chassis. (See tube placement chart).

FUSES

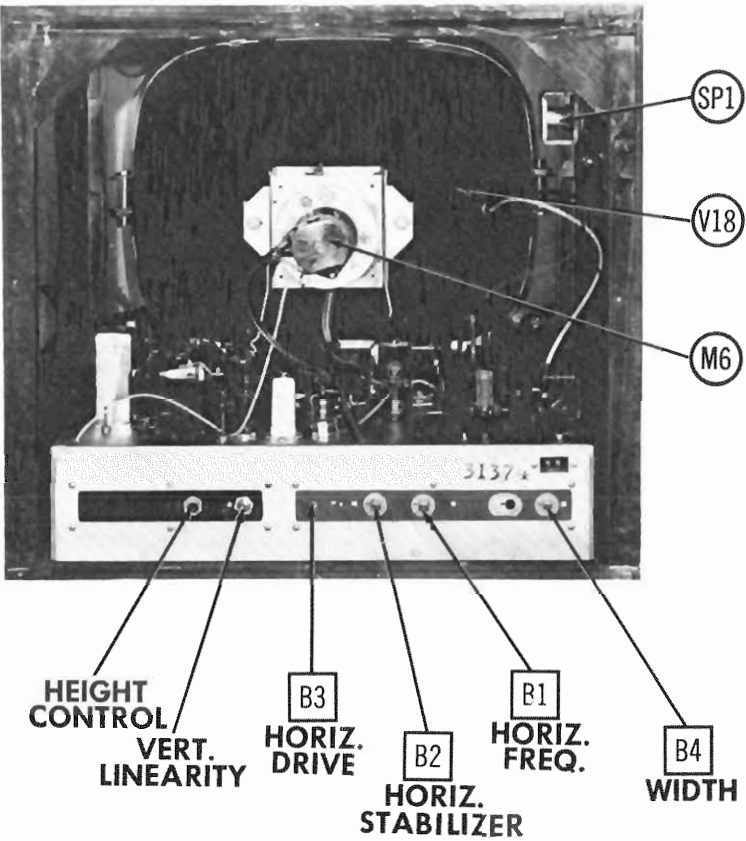
One fuse is used for LV power supply protection. (See tube placement chart for location).

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.

DISASSEMBLY INSTRUCTIONS

1. Remove 4 push on type control knobs from front panel.
2. Disconnect built-in antenna and transmission line.
3. Remove 8 wood screws. Remove rear cover.
4. Disconnect speaker. Remove 4 speaker nuts. Remove speaker (Not necessary for chassis removal.).
5. Remove 4 chassis bolts. Remove chassis.



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV signal, preferably a test pattern.

Turn the horizontal hold control fully clockwise.

The picture shows a tendency to lose sync, with up to 4½ diagonal bars sloping down to the right. Turn the horizontal hold slowly to the extreme counter clockwise position. The picture should lose sync with several bars sloping down to the left. If the receiver passes the above check no horizontal adjustment is necessary.

Set the horizontal hold at mid-range and adjust the horizontal frequency slug (B1). Turn the horizontal hold control fully counter clockwise and momentarily, remove the signal so that the sync is lost. Turn the hold control fully clockwise and note the least number of bars just before sync pull in. If the number is more than 3½ or less than 2½ slightly readjust B1.

HORIZONTAL WAVEFORM ADJUSTMENT

Adjustment of the horizontal waveform slug (B2) should not be made unless it is known to be necessary. Connect the vertical input of an oscilloscope through a low capacity probe to the junction of the horizontal stabilizing coil (L23) and the horizontal oscillator coil (L22). View the waveform on the scope and adjust B2 for broad and narrow peaks of equal height as in Fig. 6.

DRIVE AND WIDTH ADJUSTMENTS

Adjust the horizontal drive trimmer (B3) counter clockwise as far as possible without the presence of vertical white lines or compression of the center of the picture.

Adjust width slug (B4) for a picture slightly wider than necessary to fill the picture mask horizontally.

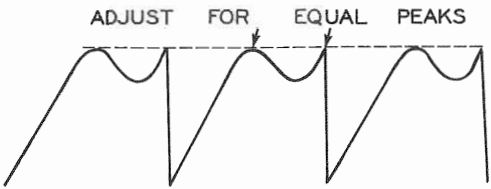


FIG. 6

SHERATON MODELS
C-2125, T-1755, T-2155 (Series 250XL)

TROUBLE SHOOTING AIDS

SWEEP

HORIZONTAL	VERTICAL								
<p>LOSS OF SWEEP</p> <p>See "Loss of High Voltage".</p> <p>INSUFFICIENT SWEEP</p> <p>Check by substitution V14, V15 and V16. Check adjustment of width coil (B4) and horizontal drive (B3). Check waveform at W13.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check C77, C78, C79, T2, T4A, R92, C76 and other associated components.</td><td>Check C74, C75 and other components associated with V14.</td></tr> </table> <p>DRIVE LINES</p> <p>Check by substitution V14, V15 and V16. Check adjustment of horizontal drive (B3). Check C74, C75, C78, C79, T2, T4A and other associated components.</p> <p>COMPRESSED LEFT SIDE</p> <p>Check by substitution V14, V15 and V16. Check width coil adjustment (B4) and horizontal drive adjustment (B3). Check components associated with V14, V15 and V16 especially T2 and T4A.</p> <p>FOLDS</p> <p>Check by substitution V14, V15 and V16. Proceed as outlined under "Drive Lines".</p> <p>XMAS TREE EFFECT</p> <p>Substitute V14. Check L22, L23, C72, C73, C74 and other associated circuit components.</p>	If Satisfactory	If Unsatisfactory	Check C77, C78, C79, T2, T4A, R92, C76 and other associated components.	Check C74, C75 and other components associated with V14.	<p>LOSS OF SWEEP</p> <p>Check by substitution V11 and V13. Check waveform at W8.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check T3, T4B and other associated components.</td><td>Check C59, C60 and other associated components.</td></tr> </table> <p>INSUFFICIENT SWEEP</p> <p>Check by substitution V11 and V13. Proceed as outlined under "Loss of Sweep".</p> <p>COMPRESSED AT BOTTOM</p> <p>Check by substitution V11 and V13. Check adjustment of height and vertical linearity controls. Check C3D, T3, T4B and other associated circuit components.</p> <p>COMPRESSED AT TOP</p> <p>Check by substitution V11 and V13. Check adjustment of height and linearity controls. Check C3D, C60, C61, T3, T4B and other associated components.</p> <p>FOLDS</p> <p>Check by substitution V11 and V13. Check components associated with V11B and V13.</p>	If Satisfactory	If Unsatisfactory	Check T3, T4B and other associated components.	Check C59, C60 and other associated components.
If Satisfactory	If Unsatisfactory								
Check C77, C78, C79, T2, T4A, R92, C76 and other associated components.	Check C74, C75 and other components associated with V14.								
If Satisfactory	If Unsatisfactory								
Check T3, T4B and other associated components.	Check C59, C60 and other associated components.								

SYNC

HORIZONTAL	VERTICAL				
<p>LOSS OF SYNC</p> <p>Substitute V14. Check adjustment of horizontal frequency (B1) and horizontal stabilizing coil (B2). Check C65, C66, C67, C69, C72, C73, L22, L23 and other associated circuit components.</p> <p>CRITICAL HOLD</p> <p>Substitute V14, V12 and V11. Proceed as outlined under "Loss of Sync".</p> <p>HORIZONTAL PULL</p> <p>Check by substitution V11, V12 and V14. Check components associated with these stages. Check video amplifier stage for overload and/or 60 cycle modulation.</p>	<p>LOSS OF SYNC</p> <p>Check by substitution V11 and V12. Check waveform at W6.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check components associated with V11B.</td><td>Check vertical integration network (C56, C57, C58, R64 and R65). Check other components associated with V11A and V12.</td></tr> </table> <p>CRITICAL HOLD</p> <p>Check by substitution V11 and V12. Proceed as outlined under "Loss of Sync".</p> <p>TRIGGERING</p> <p>Check by substitution V11 and V12. Check circuit near these stages for filament lead dress.</p>	If Satisfactory	If Unsatisfactory	Check components associated with V11B.	Check vertical integration network (C56, C57, C58, R64 and R65). Check other components associated with V11A and V12.
If Satisfactory	If Unsatisfactory				
Check components associated with V11B.	Check vertical integration network (C56, C57, C58, R64 and R65). Check other components associated with V11A and V12.				

VIDEO

<p>LOSS OF VIDEO</p> <p>Check C39, picture tube and other associated circuit components.</p> <p>SOUND BARS</p> <p>Check adjustment of local oscillator. Check adjustment of 4.5MC trap (A9).</p> <p>NEGATIVE PICTURE</p> <p>Substitute V6. Check video detector crystal and assembly. Check components associated with V6. Check picture tube (V18). Check AGC for proper operation.</p>	<p>POOR CONTRAST</p> <p>Substitute V6. Check video detector assembly. Check all components associated with V6. Check picture tube.</p> <p>SMEAR</p> <p>Substitute V6. Check video detector assembly. Check C35 and C39. Check L18, Check R35, R37, and R38 for change of value. Check picture tube for low emission and/or gassy condition.</p> <p>ONE WIDE BLACK BAR ACROSS PICTURE</p> <p>Check tuner, video IF and video amplifier tubes for heater to cathode leakage.</p>
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TROUBLE SHOOTING AIDS (cont)

AUDIO

<p>WEAK OR NO SOUND</p> <p>Check by substitution V7, V8, V9 and V10. Check stages of V9 and V10 using audio signal generator. Apply signal across R46.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check ratio detector and audio IF alignment and components.</td><td>Check components associated with V9 and V10 especially all bypass and coupling capacitors.</td></tr> </table> <p>BUZZ</p> <p>Substitute V8. Check ratio detector alignment and components especially C5, C44 and C45.</p>	If Satisfactory	If Unsatisfactory	Check ratio detector and audio IF alignment and components.	Check components associated with V9 and V10 especially all bypass and coupling capacitors.	<p>DISTORTED</p> <p>Check by substitution V7, V8, V9 and V10. Check stages of V9 and V10 using audio signal generator and scope. Apply audio signal across R46. Connect scope across secondary of T6.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check ratio detector and audio IF alignment and components.</td><td>Check components associated with V10 and V9.</td></tr> </table>	If Satisfactory	If Unsatisfactory	Check ratio detector and audio IF alignment and components.	Check components associated with V10 and V9.
If Satisfactory	If Unsatisfactory								
Check ratio detector and audio IF alignment and components.	Check components associated with V9 and V10 especially all bypass and coupling capacitors.								
If Satisfactory	If Unsatisfactory								
Check ratio detector and audio IF alignment and components.	Check components associated with V10 and V9.								

POWER

<p>DEAD SET</p> <p>If all filaments light check fuse M3. Check M1, M2, C1, C2 and other components associated with the B+ network. If only V1, V2 and V18 filaments light, check V16 for open filament. If filaments of V15, V12, V14, V10 and V9 fail to light, check these tubes and R96. If filaments of V3, V4, V5, V7, V11, V13 and V8 fail to light, check these tubes for open filament. Check, also, R95, L8, L10 and L12.</p>	<p>SMALL AND/OR DIM RASTER</p> <p>Check B+. If low, check M1, M2 and components that form the B+ filter and decoupling network.</p>
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HIGH VOLTAGE

<p>INSUFFICIENT HIGH VOLTAGE</p> <p>Check by substitution V14, V15, V16 and V17. Check picture tube (V18). Proceed as outlined under "Loss of High Voltage".</p> <p>BLOOMING</p> <p>Check by substitution V14, V15, V16 and V17. Check R94, T2, T4A, picture tube and other associated components.</p>	<p>LOSS OF HIGH VOLTAGE</p> <p>Check by substitution V14, V15, V16 and V17. Check waveform at W13.</p> <table> <tr> <td>If Satisfactory</td><td>If Unsatisfactory</td></tr> <tr> <td>Check R94, C78, C76, T2, T4A and other associated components.</td><td>Check C72, C73, C74, C75, L22, L23 and other associated components.</td></tr> </table>	If Satisfactory	If Unsatisfactory	Check R94, C78, C76, T2, T4A and other associated components.	Check C72, C73, C74, C75, L22, L23 and other associated components.
If Satisfactory	If Unsatisfactory				
Check R94, C78, C76, T2, T4A and other associated components.	Check C72, C73, C74, C75, L22, L23 and other associated components.				

GENERAL

<p>RASTER SOUND NO PICTURE</p> <p>See "Loss of Video".</p> <p>RASTER NO SOUND NO PICTURE</p> <p>Check by substitution V1, V2, V3, V4,V5 and V6. Check components associated with these stages especially all bypass capacitors and plate load and decoupling networks.</p> <p>NO RASTER NO SOUND NO PICTURE</p> <p>See "Dead Set".</p>	<p>TOTAL LOSS OF SYNC</p> <p>Check by substitution V11 and V12. Check associated circuit components.</p> <p>INTERMITTENT STREAKS</p> <p>Check high voltage section for corona discharge and arcing.</p>
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Symptoms shown are assumed and are not indicative of the quality and workmanship of this receiving equipment.

SHERATON MODELS
C-2125, T-1755, T-2155 (Series 250XL)

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (cont)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	SHERATON PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L17	4.5MC Trap	2Ω		EL-184	20-1004	TV-151	1470	
L18	Series Peak- ing Coil	15Ω		EL-193A	19-3300 *		4648 *	350 Microhenries, wound on 8.2KΩ resistor
L19	Shunt Peak- ing Coil	17Ω		EL-194	19-3500	TV-188	6174	500 Microhenries
L20	Sound IF	1.6Ω		EL-196	17-3400	TV-151	1469	
L21	Ratio Det.	5.5Ω	1.8ΩCT	EL-153	17-3497	TV-115	6205	Tertiary Winding -.6Ω Tapped @ 60Ω.
L22	Horiz. Osc.	85Ω		EL-130C	20-1402 †	TV-162 †	6183 †	
L23	Horiz. Stab- lizer Coil	80Ω		EL-128				
L24	RF Choke	2.9Ω		EL-172-A	19-3036	TV-180	4626	30 Microhenries

* Parallel with 8.2KΩ resistor
† L22 and L23 replaceable with one unit.
■ Enlarge mounting hole.

FILTER CHOKE

ITEM No.	TOTAL DIRECT CURRENT	RATINGS		REPLACEMENT DATA				TRIAD PART No.
		D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ~)	SHERATON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L25	.240ADC	56Ω	1.62 Hy.	20K-EL-154-B	C-2366 ①	C-2996 ①	TR-1733 ①	C-23X

① Drill one new mounting hole.

SELENIUM RECTIFIER

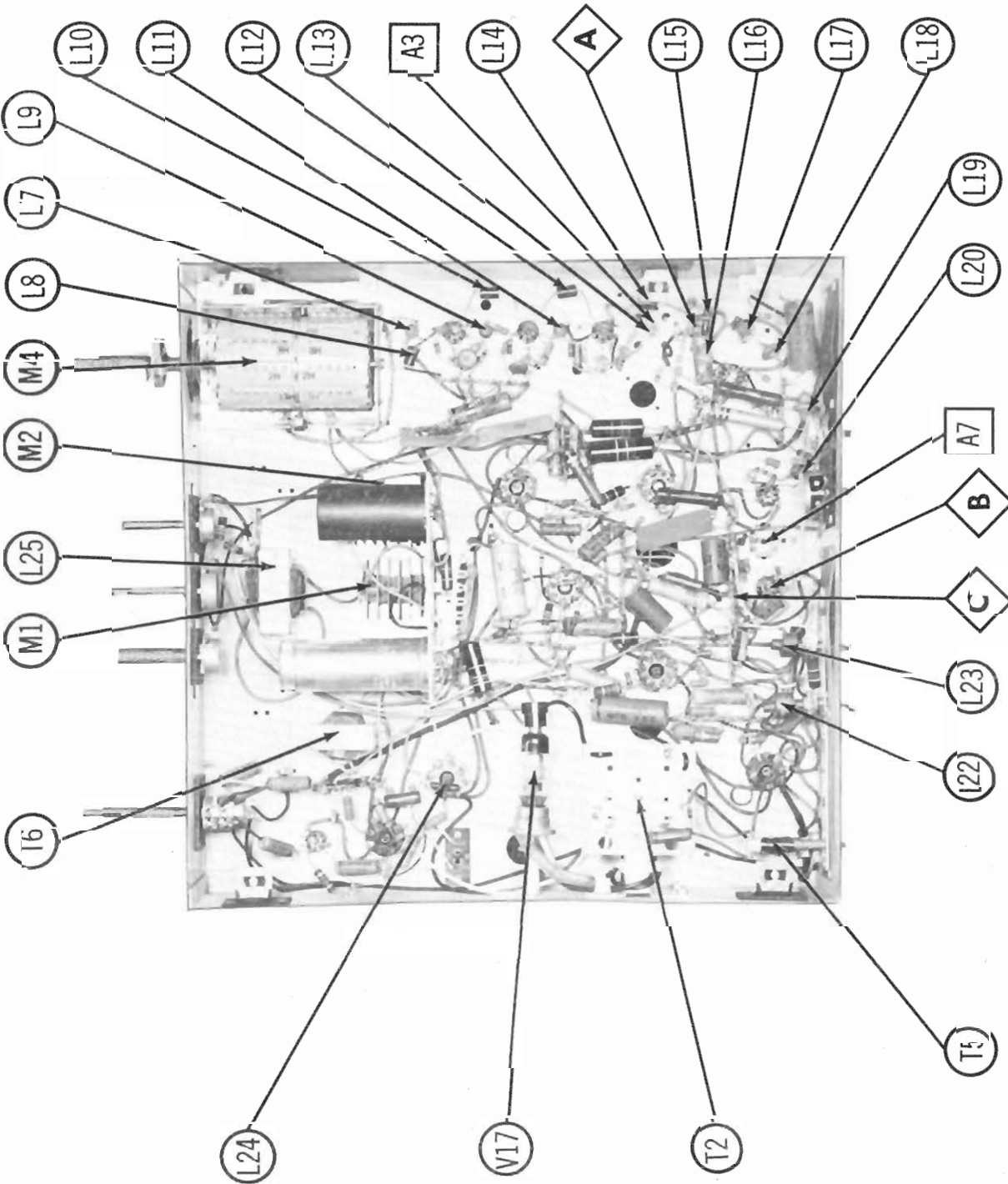
ITEM No.	RATING CURRENT	REPLACEMENT DATA					
		SHERATON PART No.	SYLVANIA PART No.	SELETRON PART No.	FEDERAL PART No.	MALLORY PART No.	SARKES TARZIAN PART No.
M1	.240ADC	ESR-100		6Q4	1090A	6S300	300
M2	.240ADC	ESR-100		6Q4	1090A	6S300	300

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			SHERATON PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M3	3AG Slo-Blo P/T	1½ Amp. 125 V.			31501.5			

MISCELLANEOUS

ITEM No.	PART NAME	SHERATON PART No.	NOTES
M4	RF Tuner	EFE-III	
M5	Focus Magnet	EL-150	(Includes centering device)
M6	Ion Trap	MIT-100-2	
B3	Trimmer Cap.	ECM-112-1	Horiz. Drive, 20-270MMF



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION
SHERATON
MODELS C-2125, T-1755, T-2155 (Series 2 50XL)

PARTS LIST AND DESCRIPTIONS

CAPACITORS (cont)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA						NOTES
		SHERATON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	
C52	.0047 1000	P-40-N-472	P1088-0047		PTE16D47		PT16247	Note 3
C53	.220	C-20-5F-221	SI220	D6-221		GP2K-221	UC-5322	
C54	.022 400	P-40-L-223	P488-022	DF-203	PTE4S22		PT4122	
C55	.047 400	P-40-L-473	P488-047	DF-303	PTE4S47		PT4147	
C56	.002 600	P-40-L-222	P688-002	D6-202	PTE6D2	GP2-333-202	PT622	
C57	.470 500	M-60-5-F-471						
C58	.01 400	P-60-L-103	P488-01	D6-103	PTE4S1	GP2-333-103	PT411	
C59	.047 600	P-60-M-473	P688-047	DF-503	PTE6S47		PT6147	
C60	.1 600	P-60-M-104	P888-1	DF-104	PTE6P1		PT601	
C61	.470	C-20-5G-471	SI470	D6-471		GP2K-471	UC-5347	
C62	.002 600	P-40-L-222	P688-002	D6-202	PTE6D2	GP2-333-202	PT622	Note 4
C63	.01 400	P-40-L-103	P488-01	D6-103	PTE4S1	GP2-333-103	PT411	
C64	.01 400	P-60-L-103	P488-01	D6-103	PTE4S1		PT411	
C65	.82 500	M-60-5-F-820						
C66	.82 500	M-60-5-F-820						
C67	.51	C-20-5F-510						
C68	.047 600	P-40-L-473	P688-047	DF-503	PTE6S47		PT6147	
C69	.047 600	P-40-L-473	P688-047	DF-503	PTE6S47		PT6147	
C70	.5 200	P-40-K-474	P288-5		PJ2P5		PT405	
C71	.022 400	P-40-L-223	P488-022	DF-203	PTE4S22		PT4122	
C72	.270 1000	M-60-10-F-271						Note 5
C73	.01 400	P-60-L-103	P488-01	D6-103			PT411	
C74	1000 1000	M-60-10-F-102						
C75	.470 500	M-60-5-F-471						
C76	.047 600	P-40-L-473	P688-047	DF-503	PTE6S47		PT6147	
C77	.0022 600	P-40-L-222	P688-0022	D6-222	PTE6D22	GP2-333-222	PT622	
C78	.047 600	P-60-M-473	P688-047	DF-503	PTE6S47		PT6147	
C79	.25 600	P-40-M-254	684-25		PTE6P25		PT6025	
C80	.51 1500							
C81	.01 400	P-60-L-103	4892X-01		PJ4S1		PT411	

Note 1. Not used in all Models.

Note 2. Some Models use 1500MMF in this application (Part #C-20-5G-152)

Note 3. Some Models use .0022MFD in this application (Part #P-40-L-222)

CONTROLS

ITEM No.	RATING RESIST- ANCE WATTS	REPLACEMENT DATA					INSTALLATION NOTES
		SHERATON PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	MALLORY PART No.	
R1A	1000Ω	EP-125	QJ-476 *	RTV-296	SBB-701-S	WF13	Contrast-Panel Volume-Rear Attach to R1B U-43 Brightness Attach to R2A Horiz. Hold Attach to R3A Vert. Hold-Note Attach to R4A Vert. Linearity-Wire Wound Attach to R5A Height Attach to R6A
R1B	1MΩ					U-36	
R2A	150KΩ	EP-126A	QJ-129	AG-52-S	AB-46	U-43	
R3A	50KΩ	Not Req.	QJ-123	FKS-1/4	AK-1	U-35	
R4A	1MΩ	EP-128	Not Req.	AG-44-S	AB-31	U-35	
R5A	3000Ω	EP-126	Not Req.	KSS-3	AK-4	U-54	
R6A	2.5MΩ	EP-128A	Not Req.	AG-61-S	AB-69	U-54	
R7A	100KΩ	EP-128	Not Req.	KSS-3	AK-4	U-54	
R8A	100KΩ	EP-128	Not Req.	WK-3000	VX-133	R3000L	
R9A	100KΩ	EP-128	Not Req.	FKS-1/4	Not Req.	SU-545	
R10A	100KΩ	EP-128	Not Req.	QJ-239	AG-84-S	SU-545	
R11A	100KΩ	EP-128	Not Req.	Not Req.	FKS-1/4	AK-1	

Note: Some Models may use alternate control (part #EP-127).

* CONCENTRIKIT EQUIVALENT - KIT K-2, BASE ELEMENTS & SHAFTS B17-108 &

& P1-220 (Panel) B13-137 & R1-304 (Rear) & SWITCH 76-1.

RESISTORS

ITEM No.	RATING OHMS WATT	REPLACEMENT DATA		NOTES
		SHERATON PART No.	IRC PART No.	
R7	15KΩ		BTS-18K	Note 2
R8	47KΩ		BTS-47K	
R9	2200Ω		BTS-2200	
R10	1000Ω		BTS-1000	
R11	4700Ω		BTS-4700	
R12	220KΩ		BTS-220K	
R13	10KΩ		BTS-10K	
R14	10KΩ		BTS-10K	
R15	15KΩ		BTS-15K	
R16	470KΩ		BTS-470K	
R17	1000Ω	ERA-1021	BTS-1000	Note 3
R18	3300Ω 5%	ERA-3325	BTS-3300 5%	
R19	56Ω	ERA-5601	BTS-56	
R20	1000Ω	ERA-1021	BTS-1000	
R21	1000Ω	ERA-1021	BTS-1000	
R22	12KΩ 5%	ERA-1235	BTS-12K 5%	
R23	56Ω	ERA-5601	BTS-56	
R24	1000Ω	ERA-1021	BTS-1000	
R25	12KΩ 5%	ERA-1235	BTS-12K 5%	
R26	150Ω	ERA-1511	BTS-150	
R27	1000Ω	ERA-1021	BTS-1000	Note 5
R28	27KΩ	ERA-2731	BTS-27K	
R29	100KΩ	ERA-1041	BTS-100K	
R30	5000Ω 5%	ERA-5025	BTS-5000 5%	
R31	10KΩ	ERA-1031	BTS-10K	
R32	500KΩ	ERA-5041	BTS-500K	
R33	15KΩ	ERA-1531	BTS-15K	
R34	47KΩ	ERA-4731	BTS-47K	
R35	5000Ω	ERA-5025	BTS-5000 5%	
R36	100KΩ	ERA-1041	BTS-100K	
R37	150KΩ	ERA-1541	BTS-150K	Note 1
R38	150KΩ	ERA-1541	BTS-150K	
R39	100KΩ	ERA-1041	BTS-100K	
R40	100Ω	ERA-1011	BTS-100	
R41	1000Ω	ERA-1021	BTS-1000	
R42	150Ω	ERA-1511	BTS-150	
R43	47KΩ	ERA-4731	BTS-47K	
R44	15KΩ	ERA-1531	BTS-15K	
R45	15KΩ	ERA-1531	BTS-15K	
R46	8.2Meg		BTA-8.2Meg	

RESISTORS (cont)

ITEM No.	RATING OHMS WATT	REPLACEMENT DATA		NOTES
		SHERATON PART No.	IRC PART No.	
R87	82KΩ	ERB-8231	BTA-82K	Note 4
R88	150KΩ	ERA-1541	BTS-150K	
R89	470KΩ	ERA-4741	BTS-470K	
R90	100Ω	ERA-1011	BW-2-100	
R91	100Ω	ERC-1011	BW-2-100	
R92	8200Ω		BTB-8200	
R93	10KΩ	ERB-1031	BTA-10K	
R94	1.2Ω			
R95	80Ω			
R96	80Ω			
R97	7.5Ω			Note 5
R98	2000Ω			
R99	1MΩ			
R100	1MΩ			
R101	1MΩ			
R102	1MΩ			
R103	1MΩ			
R104	1MΩ			
R105	1MΩ			
R106	1MΩ			
R107	1MΩ			
R108	1MΩ			
R109	1MΩ			
R110	1MΩ			

Note 1. Some Models may use a 10Meg resistor in this application.

Note 2. Some Models may use a 470KΩ resistor in this application.

Note 3. Some Models may use a 2.2Meg resistor in this application.

Note 4. Some Models may use a 10KΩ resistor in this application.

Note 5. Not used in all Models.

TRANSFORMER (FILAMENT)

ITEM No.	RATING				REPLACEMENT DATA					
					SHERATON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	RCA TYPE No.
	PRI.	SEC. 1	SEC. 2	SEC. 3						
T1	117VAC Ⓐ.15A	6.3VAC Ⓐ1.38A			ET-120A	P-6466	P-3074	FO-63 ①	F-16X	

① Drill one new mounting hole.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	DC RESISTANCE		SHERATON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	RCA TYPE No.	
	PRI.	SEC.							
T2	804.3Ω tap ② 5.3Ω, 20.3Ω 50.3Ω, 84.3Ω	0Ω	ET-119 ET-119B ①	A-8135 ② ③	HVO-9 ② ④	TFB-11 ⑤	D-19 ② ⑥	230T1 ② ④	Horiz. Output Trans.
T3	700Ω	7Ω	ET-110	A-8112	A-3036	TSO-9	A-99X ②		Vert. Output Trans.
T4A	21Ω		EL-173	DY-11A ⑦	MDF-73	TY-7 ⑦	Y-22		Horiz. Deflection Coils
T5	44Ω		EL-195		MWC-6	TW-7	WC-12 ⑧		Vert. Deflection Coils
	6.5Ω								Width Coil

① Alternate horiz. output trans.

② Drill one new mounting hole.

③ Connect original terminal #2 to new terminal #4, original #7 and #5 to new #3, original #6 to new #2,

original #8 to new #1.

④ Connect original terminal #2 to new terminal #9, original #7 & #5 to new #7, original #6 to new #3,

original #8 to new #1.

⑤ Wire as in original circuit.

⑥ Connect original terminal #2 to new terminal #9, connect #7 to #8, then connect original #7 and #5

to new #7 and #8, original #6 to new #3, original #8 to new #1.

⑦ Use original horizontal deflection coil network if necessary.

⑧ Connect to coded blue and green terminals.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING IMPEDANCE PRI. SEC.	REPLACEMENT DATA					NOTES
		SHERATON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	
T6	244KΩ 3.4Ω 220Ω .52Ω	ET-109-1	A-3876	A-2928	RO-302	S-IX	

SPEAKER

ITEM No.	RATINGS SIZE FIELD V. C. IMP.	REPLACEMENT DATA		NOTES
		SHERATON PART No.	JENSEN PART No.	
SP1	5" PM 3.4Ω	ESP-107A	ST-105	① 6" PM used on some Models. ② 8" PM used on some Models
		ESP-108 ①	Mod. P5-X	
		ESP-109 ②	ST-108	
			Mod. P6-X	
			ST-115	
			Mod. P8-V	

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	SHERATON PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Ant. Coils	0Ω CT	0Ω					Note 2
L2	Full Choke	0Ω	0Ω					
L3	RF Mixer	0Ω	0Ω					
L4	Grid & Osc.	0Ω	0Ω					
L5	Coils	0Ω	0Ω					
L6	Conv. Plate	.7Ω	.7Ω					
L7	1st. Video IF	.3Ω	.3Ω	EL-197	17-1063		6249	
L8	Full Choke	0Ω	0Ω	EL-174			6189	
L9	2nd. Video IF	.2Ω	.2Ω	EL-162	17-1004	TV-103	4604	
L10	Full Choke	0Ω	0Ω	EL-174			6250	Note 3
L11	3rd. Video IF	.5Ω	.5Ω	EL-161	17-1063		4604	
L12	Full Choke	0Ω	0Ω	EL-174			6250	
L13	4th. Video IF	.4Ω	.4Ω	EL-198			4604	
L14	Full Choke	0Ω	0Ω	EL-174			6176	
L15	Series Peak- ing Coil	2.9Ω	2.9Ω	EL-172-A	19-3036	TV-180	6181	
L16	Shunt Peak- ing Coil	.11Ω	.11Ω	EL-158	19-3250	TV-185	6181	

TUBES (SYLVANIA, GENERAL ELECTRIC or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RTMA BASE TYPE
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