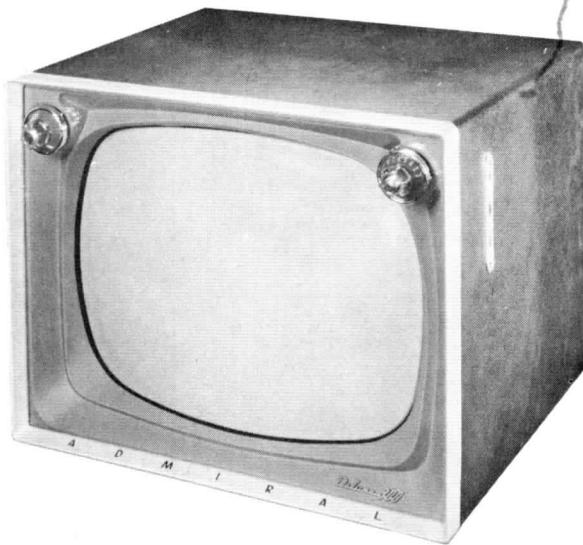


DISASSEMBLY  
INSTRUCTIONSCHASSIS REMOVAL

1. Remove 4 push-on type control knobs from the front.
2. Remove rear cover by prying clips loose.
3. Remove 2 phillips head screws and the escutcheon from the side.
4. Remove 2 metal screws holding the side control panel.
5. Release spring clips and remove the on-off-volume and contrast control.
6. Remove speaker plug, picture tube socket, ion trap, yoke clamp, yoke and HV lead.
7. Remove 4 chassis bolts from the bottom.
8. Remove the chassis.
9. Remove 2 speaker nuts and speaker with audio output transformer attached. NOTE: Some versions may also have the filter choke mounted on the speaker.



## MODELS

## CHASSIS

T2306DA, T2307DA ..... 18Y4BSA  
 C23A6A, C23A7A ..... 18Y4EFA  
 C23A1A, C23A2A, C23A3A,  
 C23A8A ..... 18Y4ESA  
 T2301DRA, T2302DRA,  
 T2303DRA ..... 18Y4LSA  
 T23E1A, T23E2A, T23E3A ..... 18Y4PSA  
 C323A6, C323A7, C323A16,  
 C323A17, C323A19, T232A1,

T323A3, T323A3LN ..... 18Z4ES  
 C323A6A, C323A7A, C323A16A,  
 C323A17A, C323A19A ..... 18Z4ESA  
 (Models Unknown) ..... 18Z4ESB  
 C325A6, C325A7 ..... 18Z4FS  
 C325A6A, C325A7A ..... 18Z4FSA  
 (Models Unknown) ..... 18Z4FSB  
 T2302DSA, T2303DSA ..... 18Z4LSA  
 T323A1A, T323A2A, T323A2BZA,  
 T323A3A, T323A3LNA ..... 18Z4PSA

## SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

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

PICTURE TUBE SAFETY GLASS CLEANING

Remove 4 knobs from the front of the cabinet. Remove the metal screws holding the bezel, mask and safety glass from the bottom of the front. Pull out from bottom to remove the assembly.

FOCUS

The focus may be varied by the position of a strap on the base of the picture tube. The strap can be connected between pins 6 and 2 or 6 and 10. Readjust the Ion trap for the best focus consistent with maximum brightness.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The horizontal frequency coil is used as the horizontal hold control. Adjust the horizontal hold until the picture synchronizes horizontally. For location, see tube placement chart.

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate sound IF detector buzz, adjust the ratio detector secondary (A10) located on top of chassis.

FUSES

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

CENTERING

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

**ADMIRAL CHASSIS 18Y4BSA,  
EFA, ESA, ESB, LSA, PSA, 18Z4ES,  
ESA, ESB, FS, FSA, FSB, LSA, PSA**

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"The listing of any available replacement part herein does not constitute in any way 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-

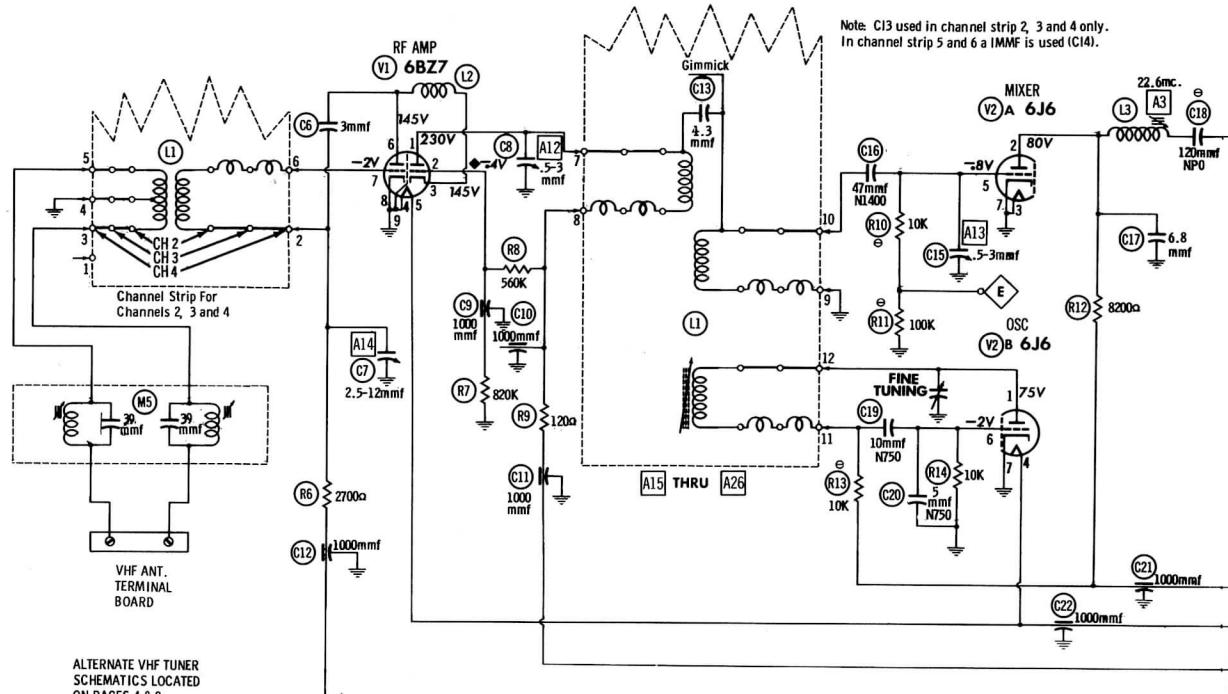
G895

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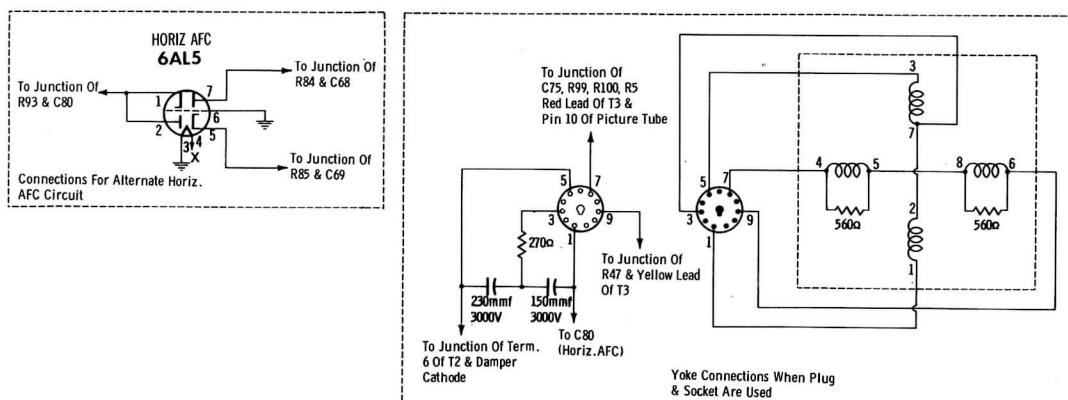
DATE 6-57

SET 360

FOLDER 2



VHF Tuner Part #94D100, -1, -2



- ◆ MEASURED FROM PIN 3 OF V1.
- ▲ MEASURED FROM PIN 7 OF V4.
- MEASURED FROM 155 VOLT SOURCE.

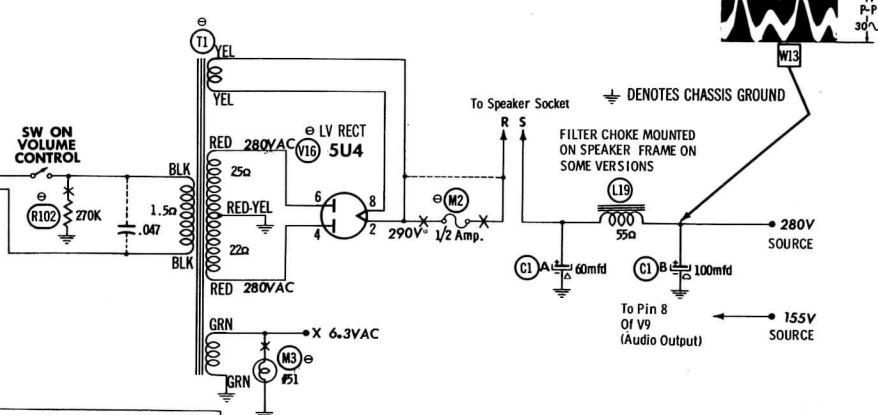
SEE PARTS LIST FOR ALTERNATE  
VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT  
SHOWN ON SCHEMATIC DIAGRAM.

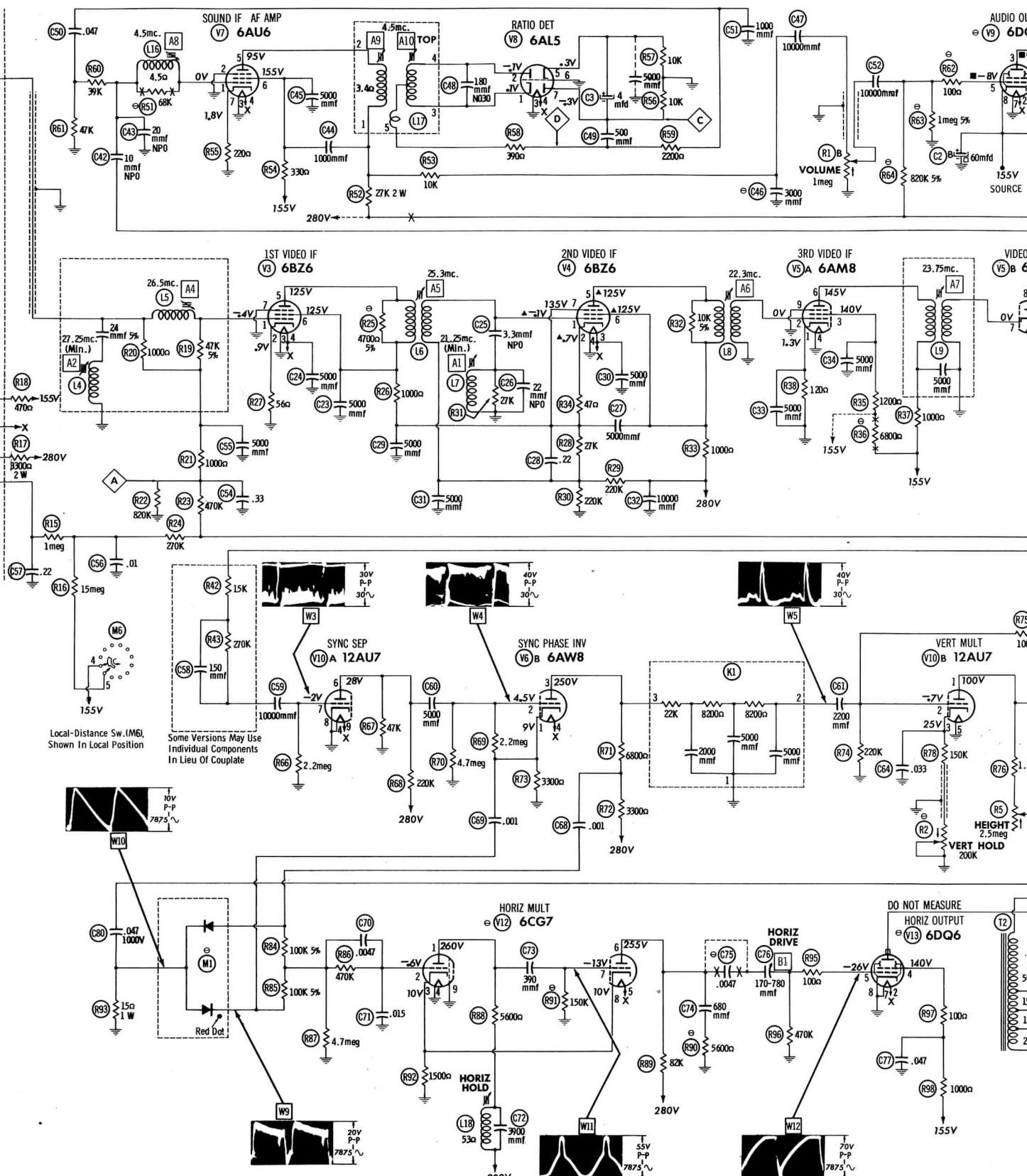
ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION  
(CONTROL VIEWED FROM SHAFT END)

WAVE FORMS TAKEN WITH CONTROLS  
SET TO PRODUCE 50 VOLTS PEAK-TO-  
PEAK SIGNAL AT PICTURE TUBE

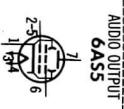
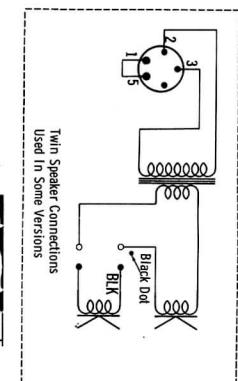
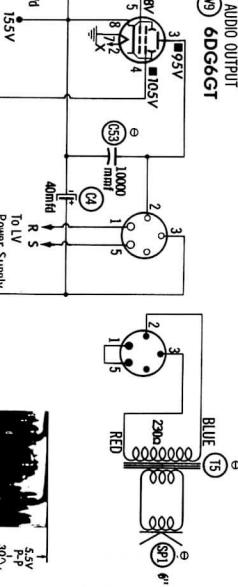
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltage measured at 1,000 ohms per volt.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. All controls set for normal operation; no signal applied.



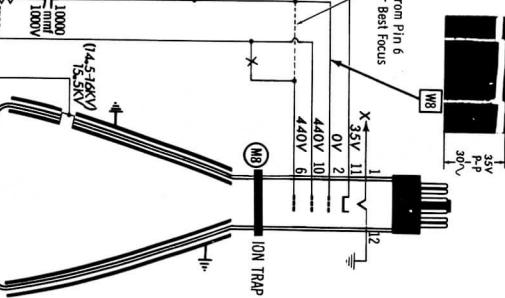
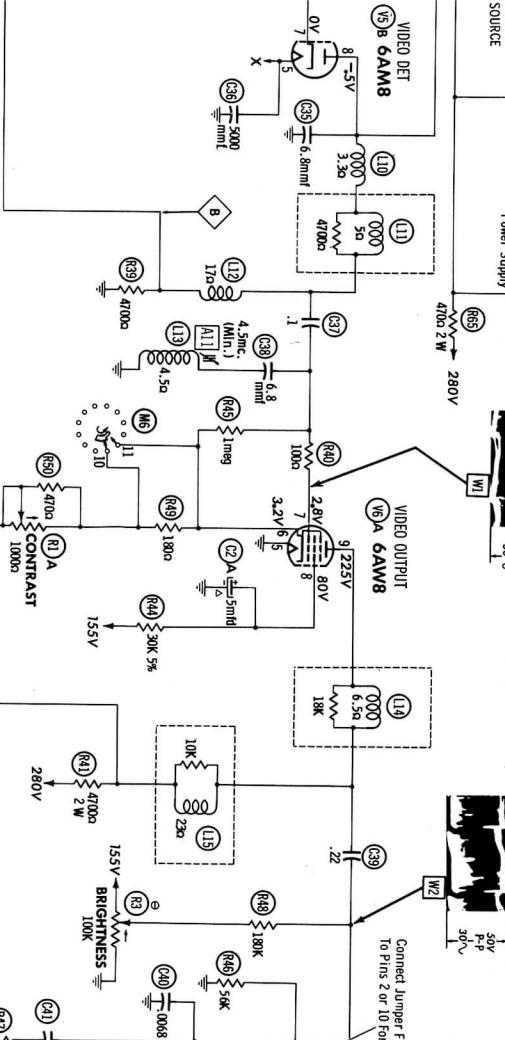
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
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AUDIO OUTPUT  
6DG6GT

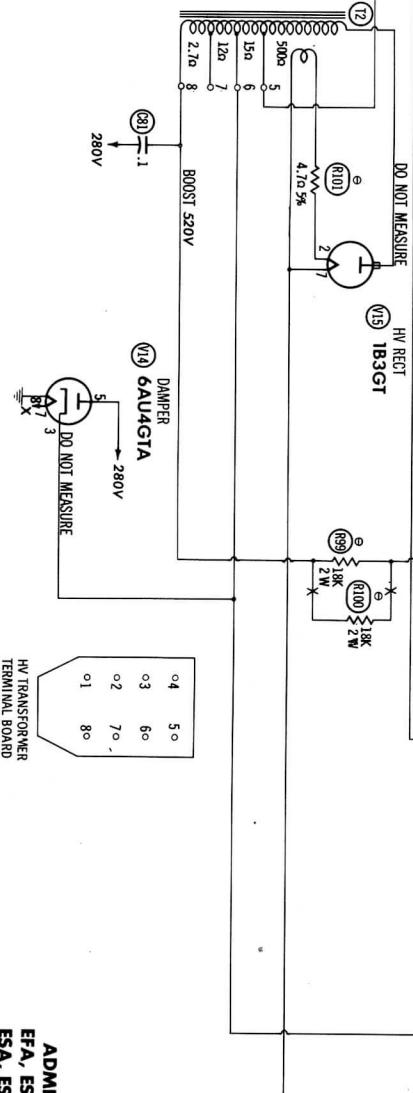
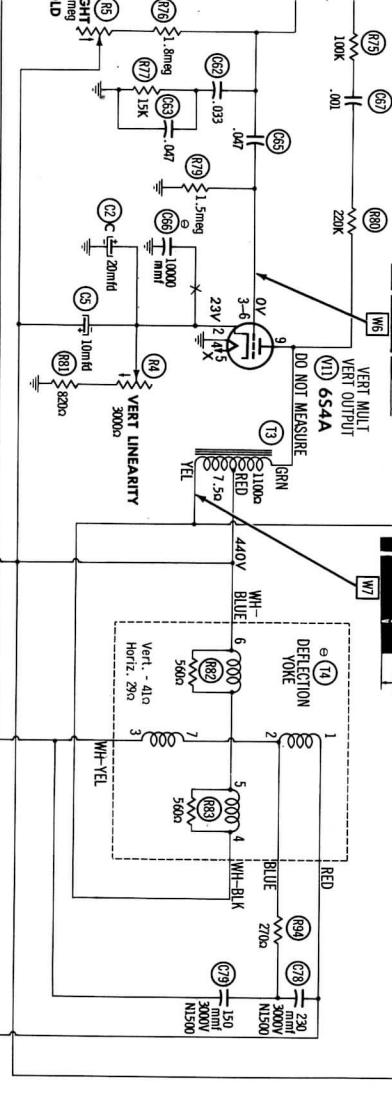


Pin Connections For  
6ASS (Audio Output)  
Used In Some Versions



PICTURE TUBE  
21ATP4A

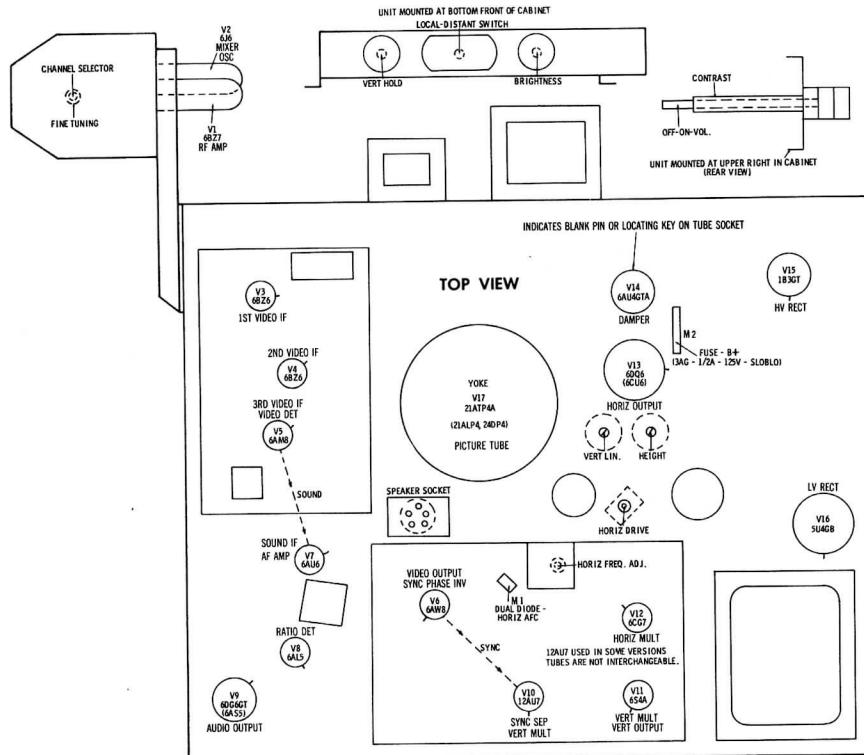
Note: Some Early Versions Do Not  
Use A Five Lead Picture Tube  
Socket & Focus Jumper. In  
These Versions A Six Lead  
Socket Is Used & Pin 6 Is  
Connected To Chassis.



HV TERMINAL BOARD

ADMIRAL CHASSIS 18Y4BSA,  
EFA, ESA, ESB, FS, FSA, LSA, PSA,  
ESA, ESB, FS, FSA, FSB, LSA, PSA

# TUBE PLACEMENT CHART



**ADMIRAL CHASSIS 18Y4BSA,  
EFA, ESA, ESB, LSA, PSA, 18Z4ES,  
EFA, ESB, FS, FSA, FSB, LSA, PSA**

# TUBE FAILURE CHECK CHART

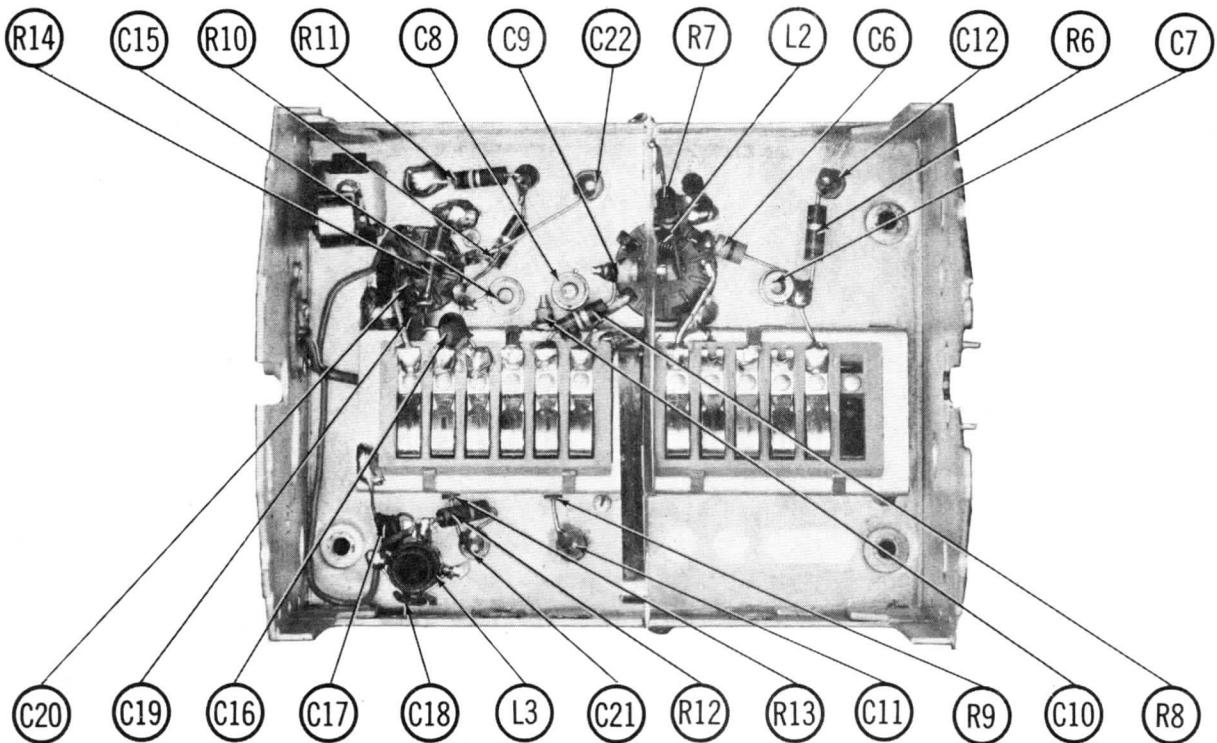
The following chart lists tubes whose failures are most likely to produce the indicated symptoms.  
Refer to tube placement chart for location and type of tube.

**POWER SUPPLY FAILURE**  
No raster, no sound - Fuse (M2), V16

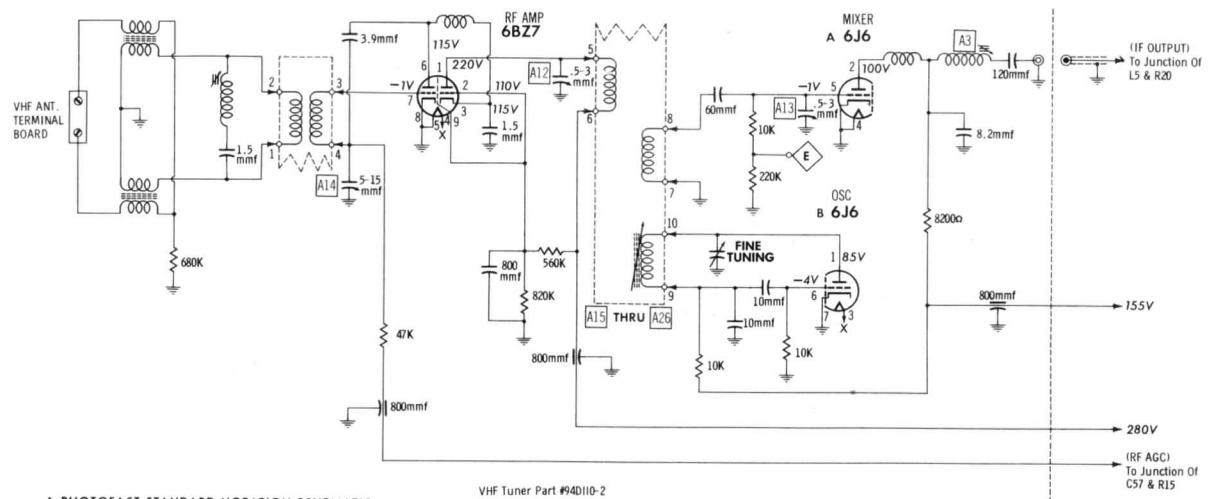
**LOSS OF PICTURE OR SOUND**  
No pic, no sound, has raster - V3, V4, V5, V9  
No pic, no sound, has snow - V1, V2, V3, V9  
No pic, has sound, has raster - V6, V17, V9  
Has pic, no sound - V7, V8, V9

**SYNC FAILURE**  
No vert. sync - V10, V6  
No horiz. sync - V10, V6, Diode (M1)  
No vert. or horiz. sync - V10, V6

**SWEEP FAILURE**  
No raster, has sound - M1, V12, V13, V14, V15, V17, V9  
No vertical deflection - V10, V11  
Poor vert. linearity or foldover - V10, V11  
Poor horiz. linearity or foldover - V12, V13, V14, V9  
Narrow picture - V12, V13, V14, V9, V16  
Vert. off freq. - V10, V11  
Horiz. off freq. - V12



**RF TUNER BOTTOM VIEW**

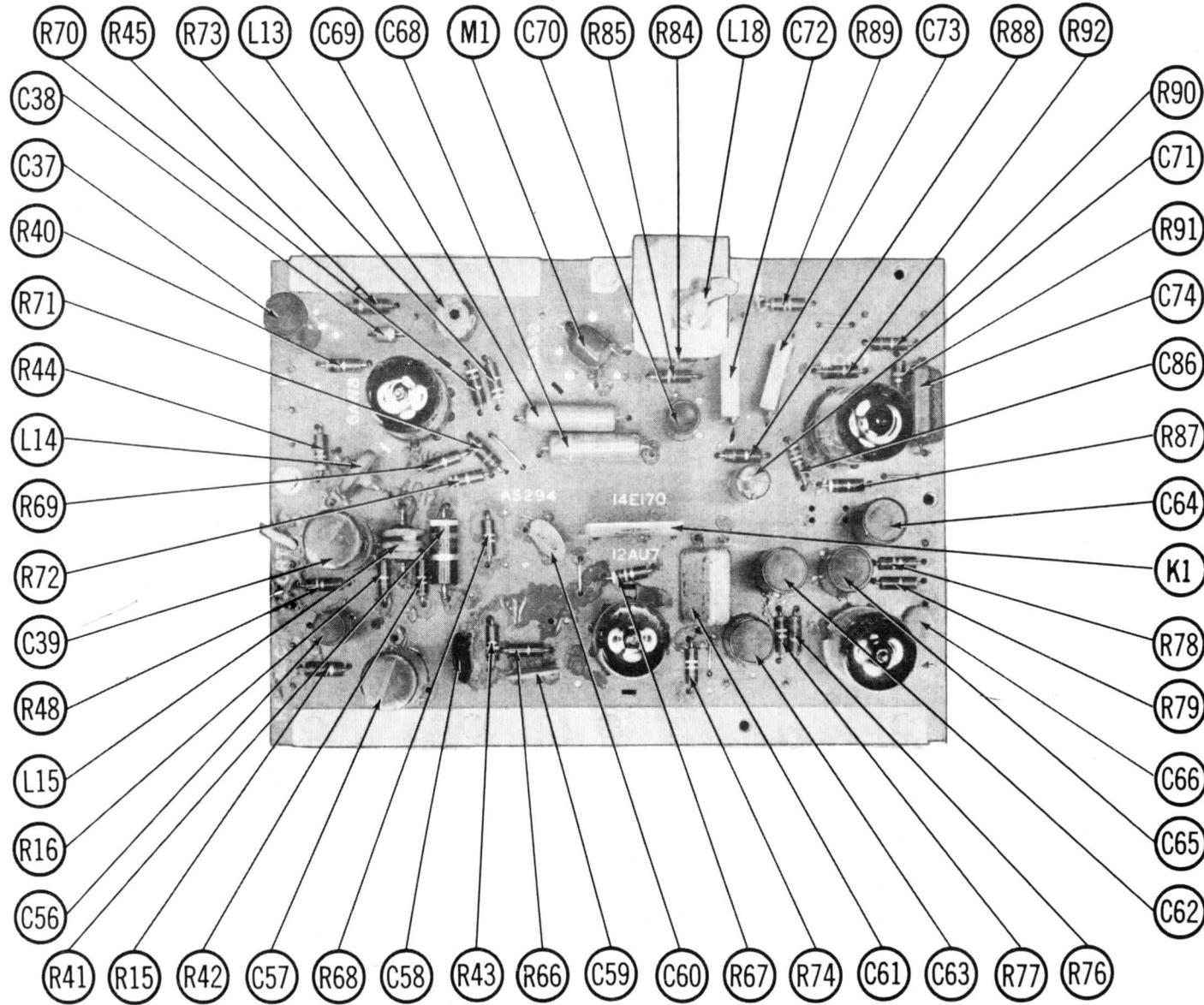


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VHF Tuner Part #94D110-2

→ 280V  
→ (IFF AGC)  
To Junction Of  
C57 & R15

**ALTERNATE VHF TUNER SCHEMATIC**



SYNC &amp; SWEEP PRINTED BOARD

18Z4S, E5A, E5B, FS, F5B, L5A, P5A

ADMIRAL CHASSIS 18Y4BSA, E5A, E5B, L5A, P5A

# ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The High Voltage lead should be securely taped and kept away from the chassis.  
Allow a 20 minute warm-up period for the receiver and test equipment.

### VIDEO IF ALIGNMENT

Remove the mixer-osc. tube (V2) from its socket and replace with a 6J6 having pin 1 removed.  
Disconnect antenna leads and connect a short jumper across the antenna terminals.

Turn the contrast control fully counter clockwise.

Connect the negative lead of a 3 volts bias supply to point A. Positive to chassis.  
For steps 1 and 2 use a strong signal from the generator but for all other steps, Use only enough generator output to provide usable indication on VTVM. Use lowest scale on VTVM.

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 mixer-osc. tube. Low side to chassis.	21.25MC (Unmod)	Any non-interfering channel	DC probe thru decoupling network (Fig. 1) to point B. Common to chassis.	A1	Adjust for MINIMUM deflection.
2.	"	27.25MC	"	"	A2	"
3.	"	22.6MC	"	"	A3	Adjust for maximum deflection.
4.	"	26.5MC	"	"	A4	"
5.	"	25.3MC	"	"	A5	"
6.	"	22.3MC	"	"	A6	"
7.	"	23.75MC	"	"	A7	"

### OVERALL VIDEO IF RESPONSE CHECK

Connect bias as under "Video IF Alignment".  
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.  
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.  
Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8. Direct	High side to ungrounded tube shield floating over dummy mixer-osc. tube. Low side to chassis.	23.0MC (10MC Swp)	21.25MC 22.0MC 23.0MC 25.0MC 25.75MC	Any non-interfering channel	Vert. Amp. thru decoupling network (Fig. 1) to point B. Low side to chassis.		Check for response similar to Fig. 2. If necessary, retouch A1 thru A7 to obtain desired response. Adjust A4 and A5 for position of 25.75MC marker and amplitude of response curve on high frequency side. Adjust A3 and A6 for position of 22MC and 23MC markers and amplitude of response curve on low frequency side.

### SOUND IF ALIGNMENT

Disconnect antenna and connect a short jumper across antenna terminals.  
Set contrast control fully counter clockwise.

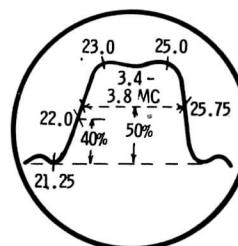
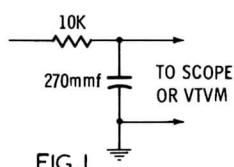
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
9. .01MF D	High side to pin 8 (plate) of 6AM8 (V3). Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe to point C. Common to chassis.	A8, A9	Use only enough generator output to provide usable indication on VTVM.
10. "	"	"	"	DC probe to point D. Common to chassis.	A10	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

### 4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
11. .01MF D	High side to pin 8 (plate) of 6AM8 (V5). Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe to point C. Common to chassis.	All	Connect a very short jumper across L11. Use lowest scale on VTVM. Adjust for MINIMUM deflection.

### 4.5MC TRAP ALIGNMENT USING ON THE AIR SIGNAL

Tune in a strong station and adjust the fine tuning until a beat pattern appears in the picture. Adjust All for MINIMUM beat pattern while observing the picture.



# ALIGNMENT INSTRUCTIONS (cont)

RF AND MIXER ALIGNMENT

Connect bias as under "Video IF Alignment".

Allow a 20 minute warm-up period for the receiver and test equipment.

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

The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
12. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	195MC (10MC Swp)	193.25MC 197.75MC	10	Vert. Amp. thru 10K to point $\oplus$ . Low side to chassis.	A12, A13	Adjust for response curve similar to Fig. 3 with markers above 90%.
13. "	"	85MC (10MC Swp)	83.25MC 97.75MC	6	"	A14	Adjust for response curve similar to Fig. 3. Adjust for maximum amplitude and flat-topped appearance with markers properly positioned.
14. "	"	213MC (10MC Swp) 207MC (10MC Swp) 201MC (10MC Swp) 189MC (10MC Swp) 183MC (10MC Swp) 177MC (10MC Swp) 79MC (10MC Swp) 69MC (10MC Swp) 63MC (10MC Swp) 57MC (10MC Swp)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC 77.25MC 81.75MC 87.25MC 71.75MC 81.25MC 65.75MC 55.25MC 59.75MC	13 12 11 9 8 7 5 4 3 2	"		Check for response curve similar to Fig. 3. If markers fall below 70% on any high band channel, make compromise adjustment of A12 and A10 with channel switch set to that channel. If markers fall below 70% on any low band channel, make compromise adjustment of A14 with channel selector set to that channel. Check all other channels to see that they have not been seriously affected.

OSCILLATOR ALIGNMENT FOR TUNERS #94D100, -1, -2 & 94D110-2

Connect bias as under "Video IF Alignment".

Allow a 20 minute warm-up period for the receiver and test equipment.

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

The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
15. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC Swp) 207MC (10MC Swp) 201MC (10MC Swp) 195MC (10MC Swp) 189MC (10MC Swp) 183MC (10MC Swp) 177MC (10MC Swp) 79MC (10MC Swp) 69MC (10MC Swp) 63MC (10MC Swp) 57MC (10MC Swp)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC 77.25MC 81.75MC 87.25MC 71.75MC 81.25MC 65.75MC 55.25MC 59.75MC	13 12 11 10 9 8 7 6 5 4 3 2	Vert. Amp. thru 47K to point $\oplus$ . Low side to chassis.	A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25 A26	Adjust to place sound marker in trap notch as in Fig. 4. Video marker should fall at 50%.

OSCILLATOR ALIGNMENT FOR TUNER #94E142-1

1. Turn the set on and allow 15 to 20 minute warm-up.
2. Set channel selector to the lowest channel operating in the area.
3. Set the fine tuning control to the center of its range.
4. Set other controls for normal picture and sound.
5. Remove channel selector, fine tuning knob and gold retainer disk, under the knobs, if used.
6. Using a 1/8" blade, non-metallic tool carefully adjust the channel slug for best picture and sound. (NOTE: This may not be point at which the sound is loudest). If two slugs are visible at the front of the tuner, adjust the top one. Repeat this procedure for the remaining stations, adjusting them in order of the channel number from the lowest to the highest.

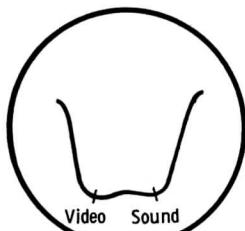


FIG. 3

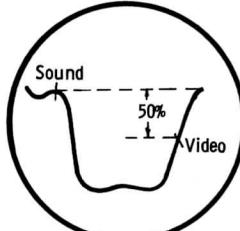
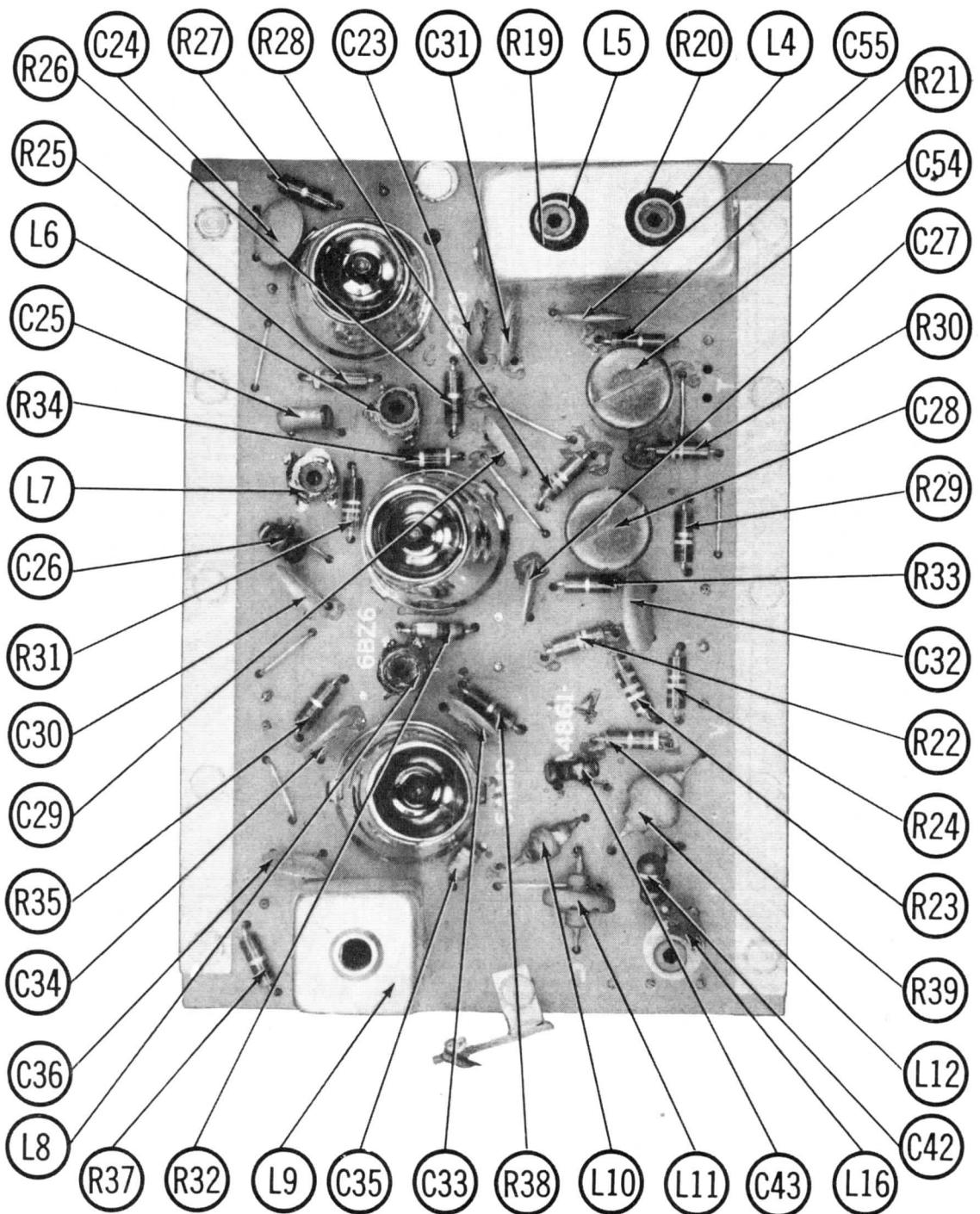
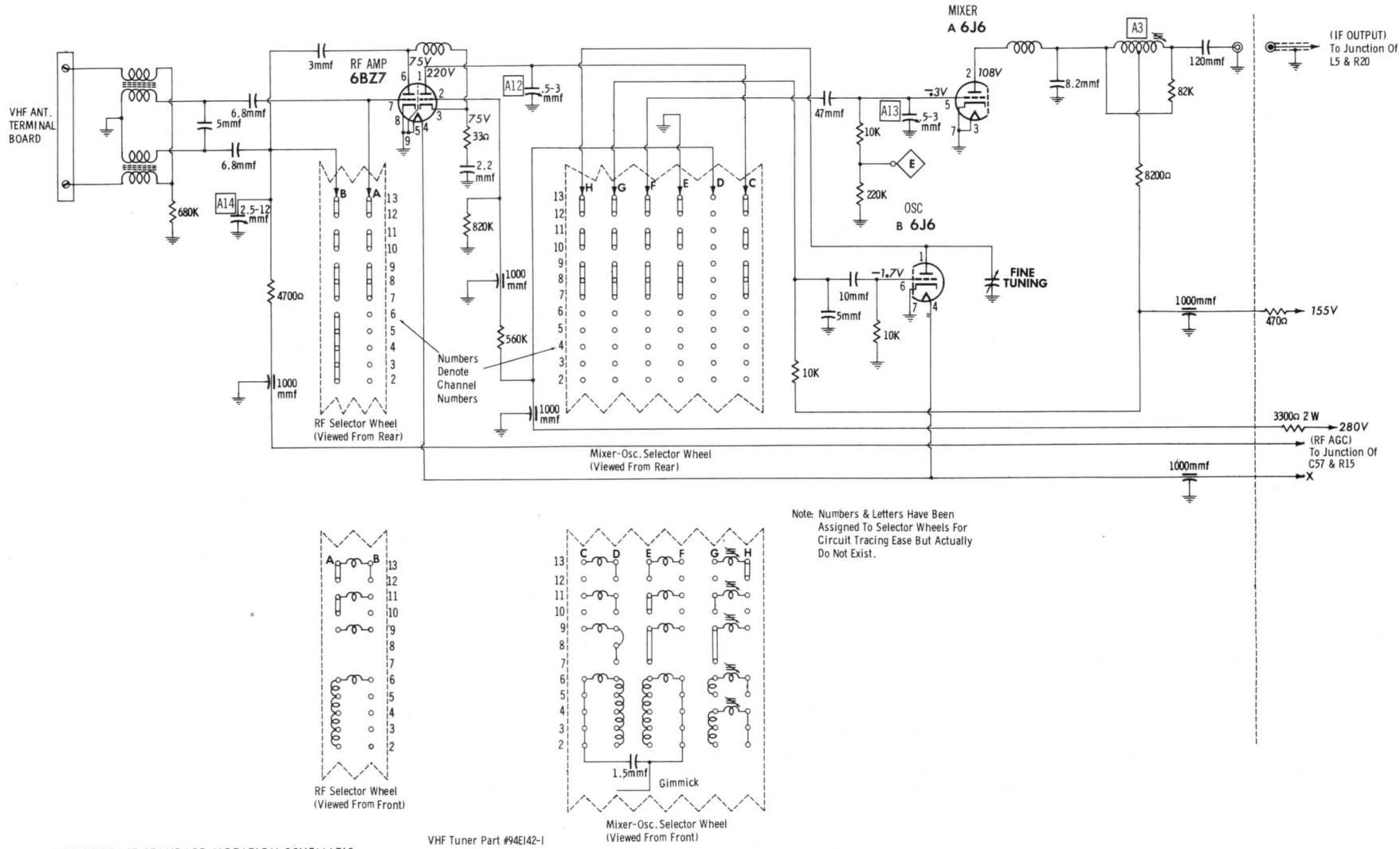


FIG. 4

ADMIRAL CHASSIS 18Y4BSA,  
EFA, ESA, ESB, LSA, PSA, 18Z4ES,  
ESA, ESB, FS, FSA, FSB, LSA, PSA



VIDEO IF PRINTED BOARD



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# ALTERNATE VHF TUNER SCHEMATIC

ADMIRAL CHASSIS 18Y4BSA, EFA, ESA, ESB, LSA, PSA,  
18Z4ES, ESA, ESB, FS, FSA, FSB, LSA, PSA

## RESISTANCE MEASUREMENTS

ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V1	6BZ7	† 3500Ω	280K	INF	0Ω	.1Ω	INF	1.2Meg	0Ω	0Ω
V2	6J6	■ 10K	■ 8600Ω	0Ω	.1Ω	110K	10K	0Ω		
V3	6BZ6	280K	56Ω	0Ω	.1Ω	▲ 1000Ω	▲ 1000Ω	0Ω		
V4	6BZ6	† 100K	▲ 47Ω	.1Ω	0Ω	† 1000Ω	† 1000Ω	† 120K		
V5	6AM8	120Ω	.4Ω	■ 8000Ω	0Ω	.1Ω	■ 1000Ω	.3Ω	4200Ω	0Ω
V6	6AW8	3200Ω	1.4Meg	† 10K	.1Ω	0Ω	● 450Ω	1Meg	■ 30K	† 4700Ω
V7	6AU6	85K	0Ω	0Ω	.1Ω	† 27K	■ 330Ω	220Ω		
V8	6AL5	INF	INF	0Ω	.1Ω	10K	0Ω	10K		
V9	6DG6GT	NC	.1Ω	† 750Ω	† 525Ω	1Meg	TP	0Ω	¶	
V10	12AU7	† 3Meg	220K	● 200K	0Ω	0Ω	† 60K	2.2Meg	0Ω	.1Ω
V11	6S4A	NC	● 1500Ω	1.5Meg	0Ω	.1Ω	1.5Meg	NC	NC	† 10K
V12	6CG7	† 5700Ω	550K	1500Ω	0Ω	.1Ω	† 82K	150K	1500Ω	0Ω
V13	6DQ6	TP	.1Ω	TP	■ 1100Ω	470K	TP	0Ω	0Ω	TOP CAP † 15Ω
V14	6AU4GTA	NC	NC	¶	NC	† 55Ω	NC	.1Ω	0Ω	
V15	1B3GT	PINS		1 THRU 8	HAVE	INFINITE	RESISTANCE			TOP CAP \$515Ω
V16	5U4GB	NC	¶	NC	27Ω	NC	25Ω	NC	¶	
V17	21ATP4A	1Ω	56K	Pin 6 † 9000Ω	Pin 10 † 9000Ω	Pin 11 ● 190K	Pin 12 0Ω			

† MEASURED FROM PIN 2 OF V16.

● THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION

‡ MEASURED FROM PIN 3 OF V14.

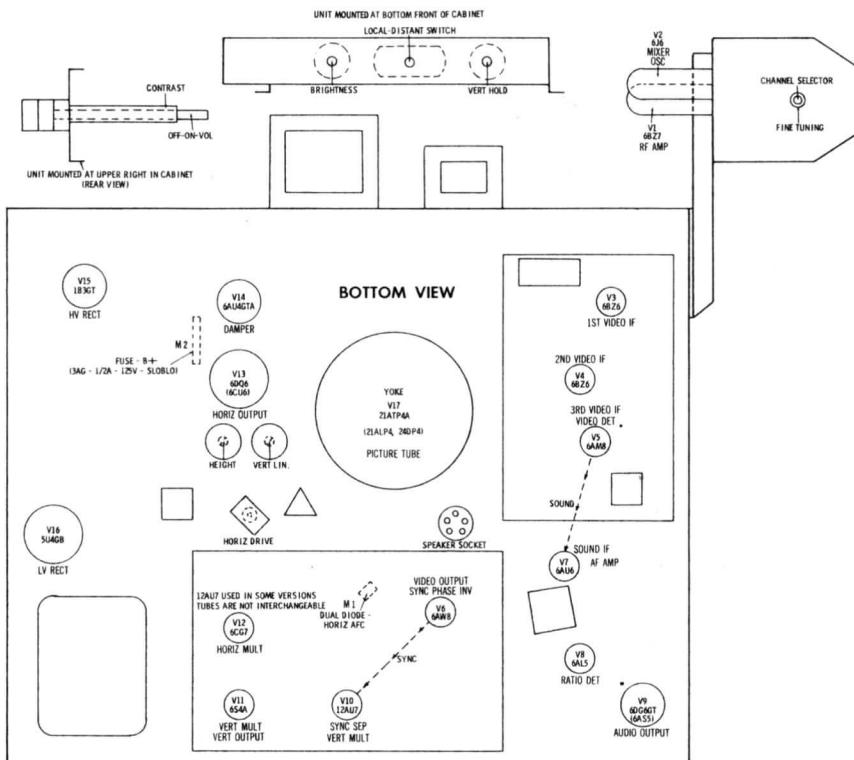
■ MEASURED FROM PIN 8 OF V9.

▲ MEASURED FROM PIN 7 OF V4.

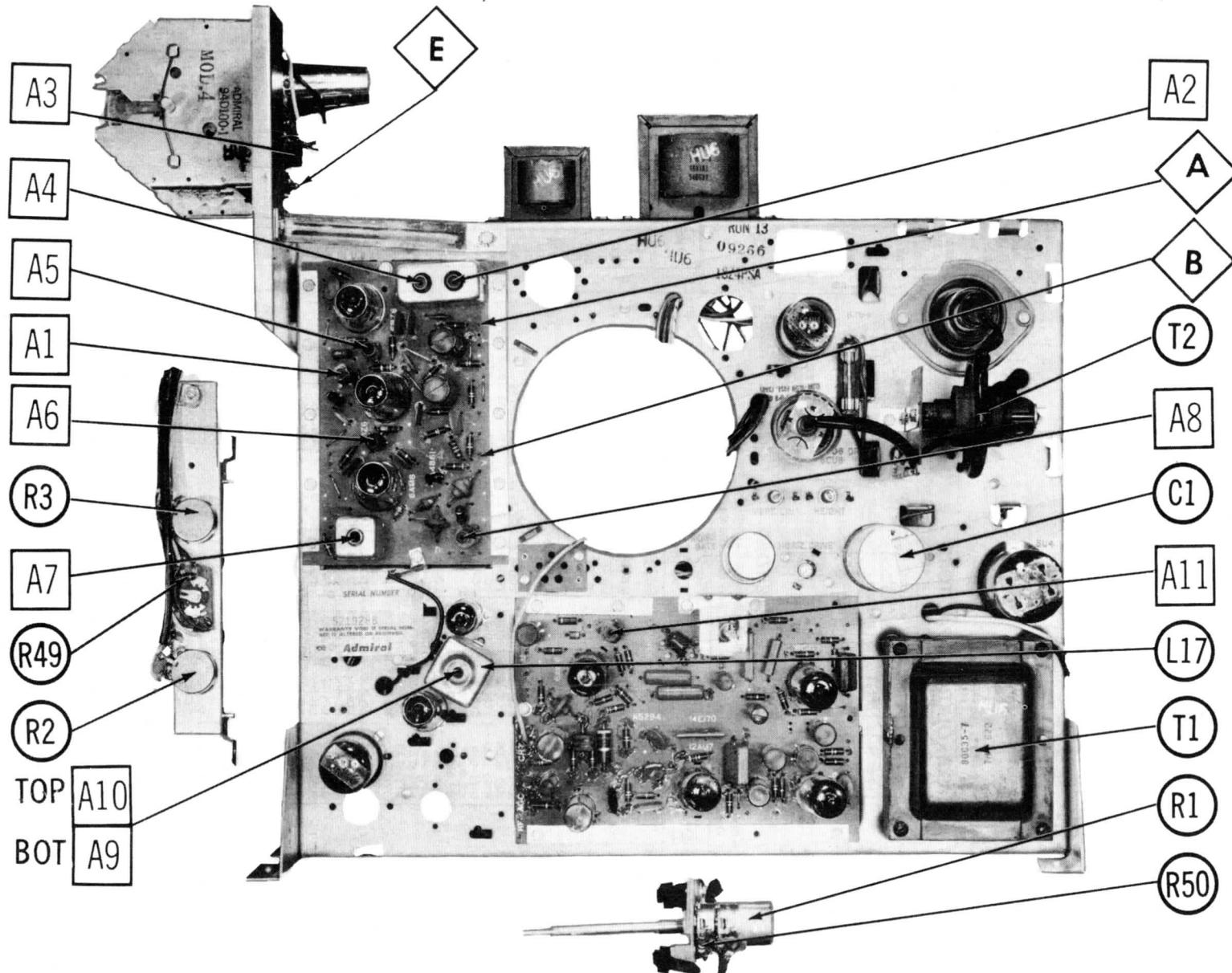
¶ THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.

NC NO CONNECTION

TP TIE POINT



## TUBE PLACEMENT CHART



CHASSIS TOP VIEW

ADMIRAL CHASSIS 18Y4BSA, EFA, ESA, ESB, FSA, FSB, LSA, PSA,  
18Z4ES, E5A, ESB, FS, FSA, FSB, LSA, PSA

# PARTS LIST A

CAPA

## TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	RF Amp.	6B27	
V2	Mixer-Osc.	6B8	
V3	1st Video IF Amp.	6B26	
V4	2nd Video IF Amp.	6B26	
V5	3rd Video IF Amp. -	6AM8	
V6	Video Det.	6AW8	
V7	Video Output-Sync Phase Inv.	6AU6	
V8	Sound IF Amp. -AF Amp.	6AU6	

Note 1: Some versions may use a 6AS5 in this application.

Note 2: Some versions may use a 12AU7 in this application.

NOTE: These tubes are NOT INTERCHANGEABLE.

ITEM No.	USE	TYPE	NOTES
V8	Ratio Det.	6AL5	
V9	Audio Output	6DG6GT	
V10	Sync Sep.-Vert. Mult.	12AU7	
V11	Vert. Mult. -Vert. Output	654A	
V12	Horiz. Mult.	6CG7	
V13	Horiz. Output	6DQ6	
V14	Damper	6AU4GTA	
V15	HV Rectifier	1B3GT	
V16	LV Rectifier	5U4GB	

Note 3: Some versions may use a 6CU6 in this application.

Note 4: Some versions may use a 5U4GA in this application.

ITEM No.	RATING		ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART
	CAP.	VOLT			
C70	.0047	600	64B16-38	BPD-0047	
C71	.015	400	64B16-58	BPD-015	
C72	3900		65B2L-392	1464-0039	
C73	390		65B2L-391	1464-00039	
C74	680		65B2L-681	1464-00068	
C75	.0047	600		BPD-0047	D6-4
C76	170-780		66A30-3		
C77	.047	600	64B9-9		
C78	230	3000	65D10-68		
C79	150	3000	65D10-68		
C80	.047	1000	64A2-30	BPD-05	DF-1
C81	.1	600	64B9-7	P688N-1	DF-1

Note 1: Some versions use a 220MMF in this application.

Note 2: In Ch. 1824ESB & FSB a 2000MMF is used in the

Note 3: In Ch. 18Y4BSA (Run 18 thru 19), 18Y4ESA, EFA

Note 4: In Ch. 18Y4BSA, ESA, EFA, PSA and LSA , C7

Note 5: Not used in early versions.

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	ADMIRAL PART No.	CBS PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
V17	21ATP4A	21ATP4 ②	21ATP4A/21ATP4 ②	21ATP4A/21ATP4 ①	① Silver Screen "85" ② Aluminized
	21ALP4	21ALP4 21ALP4A ②	21ALP4 21ALP4B/21ALP4A ②	21ALP4A/ 21ALP4B ①	
	24DP4	21ALP4B ② 24DP4A ②	24DP4 24DP4A ②	24DP4 24DP4A ①	

## ELECTROLYTIC CAPACITORS

ITEM No.	REPLACEMENT DATA							
	RATING	ADMIRAL PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
CLA	▲60	350	67D15-110	AFH3-29-25	DO044	FP330-9	TMD-89	D-177
B	▲100	350		AFH3-84-50				MT-4520
C2A	▲5	200	67D15-109		CO636	FP217.8		T-505
B	■60	200						MTD-2520
C	20	50						
C3	4	50	67B27-3	PRSI50V4	BBR4-50	TC30	TD-4-50	MT-0504
C4	40	200	67A4-21	PRSI250V40	BR4025	TC58	TD-40-250	FM-2540
C5	10	500	67A4-22	PRSI500V10	BR1250	TC82	TD-10-500	MT-5010
								TVA-1402
								TVA-1511
								TVA-1963

## 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.	REPLACEMENT DATA								NOTES
	RATING	ADMIRAL PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.		
C6	3	65B28-030	NPO-SI 3		C10V3C	TCO-3	ZT-553		
C7	2.5-12	66A38-5			829-3	3115-D	CT565A		
C8	5-3	66A38-4							
C9	1000	65B26-5	EF-001	MFT-1000				503C-DL	
C10	1000	65B26-1	EF-001	MFT-1000				503C-DL	
C11	1000	65B26-5	EF-001	MFT-1000				503C-DL	
C12	1000	65B26-5	EF-001	MFT-1000				503C-DL	
C13	1.3	65B28-013	NPO-SI 1.0	TCZ-1	TCO-1			STCCB-V1	
C14	1.0		NPO-SI 1.0	TCZ-1	TCO-1			STCCB-V1	
C15	5-3	66A38-4			829-3	3115-D	CT565A		
C16	47	65D10-73						N1400	
C17	6.8	65D10-26	NPO-SI 6.8	TCZ-6R8	C10V62C	TCO-6.8	ZT-5568	5TCCB-V68	
C18	120	65D10-120	TCZ-120	C10Q12C	TCO-120			5TCC-T12	
C19	10	65D10-50	N750-SI 10	TCN-10	C10Q1U	TC7-10	NT-541	5TCU-Q1	
C20	5	65D10-22	N750-SI 5	TCN-5	C10V5U	TC7-5	NT-555	5TCU-V5	
C21	1000	65B26-5	EF-001	MFT-1000				503C-DL	
C22	1000	65B26-5	EF-001	MFT-1000				503C-DI	
C23	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C24	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C25	3.3	65C6-89	NPO-SI 3.3	TCZ-3R3	C10V33C	TCO-3.3	ZT-5533	5TCCB-V33	
C26	22	65C6-113	NPO-SI 22	TCZ-22	C1022C	TCO-22		5TCC-Q22	
C27	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C28	.22	400	64B16-51	P488N-22	C10V68C	TCO-6.8	ZT-5568	5TCCB-V68	
C29	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C30	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C31	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C32	10000	65C43-2	BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C33	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C34	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C35	6.8	65B28-068	NPO-SI 6.8	TCZ-6R8	C10V68C	TCO-6.8	ZT-5568	5TCCB-V68	
C36	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C37	.1	200	64B16-53	P288N-1	DF-104	BC6P15J	ACE401	2SE-P10	
C38	6.8	65B28-068	NPO-SI 6.8	P288N-22	TCZ-6R8	C10V68C	ZT-5568	5TCCB-V68	
C39	.22	400	64B16-28	P488N-22	BC6P22J	TCO-6.8	ACE6022	4SE-P22	
C40	.0068	600	64B16-14	P688N-0068	D6-682	CUB6D68	GEM-6268	6TM-D68	
C41	10000	64A2-13							
C42	10	65C6-44	NPO-SI 10	TCZ-10	C10Q1C	TCO-10	ZT-541	5TCC-Q1	
C43	20	65C6-51	NPO-SI 20	TCZ-20	C10Q2C	TCO-20	ZT-542	5TCC-Q2	
C44	1000	65C39-1	BPD-001	DD-102	BYA6D1	ED-001	DC521	5HK-DI	
C45	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C46	3000		BPD-003	DD-302	BYA10D3	ED-003	UC-5233		
C47	10000		BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C48	180	65D10-52							
C49	500	65C39-3	BPD-0005	DD-501	L10T5	ED-500	UC-535	5GA-T5	
C50	.047	400	64B16-55	BPD-05	DD-503	CUB4S47	GEM-4147	4TM-S47	
C51	1000	64B16-42	BPD-001	DD-102	BYA6D1	ED-001	DC521	5HK-DI	
C52	10000	65C43-2	BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C53	10000		BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C54	.33	200	64B16-50	P288N-33	BC2P33J			2SE-P33	
C55	5000	65C43-1	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-D5	
C56	.01	400	64B16-59	BPD-01	DD-103	BC6S6J	ED-01	ACE611	4SE-S10
C57	.22	200	64B16-51	P288N-22	DD-103	BYA6S1	ED-01	DC511	5HK-S1
C58	.150				DD-103	BC2P22J	ED-150	UC-5315	5GA-T15
C59	10000	65C43-2	BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C60	5000	65D10-5	BPD-005	DD-502	BYA10D5	ED-005	DC525	5HK-DI	
C61	2200	65B2L-222	I464-0022		IR5022	ED-0022		MS-222	
C62	.033	600	64B15-10	BPD-03	DF-303	BC6S33J			6SE-S33
C63	.047	400	64B16-32	BPD-05	DF-503	BC6S47J			4SE-S47
C64	.033	600	64B16-56	BPD-03	DF-303	BC6S33J			6SE-S33
C65	.047	600	64B16-9	BPD-05	DF-503	BC6S47J			6SE-S47
C66	10000	65C43-2	BPD-01	DD-103	BYA6S1	ED-01	ACE6147	4SE-S47	
C67	.001	1600	64A2-28	1688N-001	D6-102	CUB4D1	ED-001	ACE6147	4SE-S47
C68	.001	400	64B2L-1	BPD-001	D6-102	CUB4D1	ED-001	GEM-421	4TM-DI
C69	.001	400	64B2L-1	BPD-001	D6-102	CUB4D1	ED-001	GEM-421	

ITEM No.	RATING		ADMIRAL PART No.	IRC PART No.	NOTES
	OHMS	WATT			
R6	270				



# DESCRIPTIONS

RS (cont)

REPLACEMENT DATA				NOTES
ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.		
D47J S15J D39 T39 T68 D647	GP-4700 ED-015	ACE6247 GEM-6247	6SE-D47 4SE-S15 MS-239 MS-339 MS-368 6TM-D47	Note 4
S6S47	GP-4700	GEM-6147	6TM-S47	N1500
10S47 36PI	GEM-10147 GEM-601	10TM-S47 6TM-P1	N1500	

tion - other versions may use a 1000MMF.  
d LSA a 4700MMF is used.  
sed.

IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
QJ-884	UE64S	Contrast Volume
Not Req.	Not Req.	Vert. Hold
Not Req.	U43	Vert. Hold ①
Not Req.	U43	Brightness
Not Req.	U41	Brightness ①
Not Req.	U41	Vert. Lin.
Not Req.	SU-565	Height
Q	Not Req.	
Q-1	Not Req.	
Q-2	Not Req.	
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Q-374	Not Req.	
Q-375	Not Req.	
Q-376	Not Req.	
Q-377	Not Req.	
Q-378	Not Req.	
Q-379	Not Req.	
Q-380	Not Req.	
Q-381	Not Req.	
Q-382	Not Req.	
Q-383	Not Req.	
Q-384	Not Req.	
Q-385	Not Req.	
Q-386	Not Req.	
Q-387	Not Req.	
Q-388	Not Req.	
Q-389	Not Req.	
Q-390	Not Req.	
Q-391	Not Req.	
Q-392	Not Req.	
Q-393	Not Req.	
Q-394	Not Req.	
Q-395	Not Req.	
Q-396	Not Req.	
Q-397	Not Req.	
Q-398	Not Req.	
Q-399	Not Req.	
Q-400	Not Req.	
Q-401	Not Req.	
Q-402	Not Req.	
Q-403	Not Req.	
Q-404	Not Req.	
Q-405	Not Req.	
Q-406	Not Req.	
Q-407	Not Req.	
Q-408	Not Req.	
Q-409	Not Req.	
Q-410	Not Req.	
Q-411	Not Req.	
Q-412	Not Req.	
Q-413	Not Req.	
Q-414	Not Req.	
Q-415	Not Req.	
Q-416	Not Req.	
Q-417	Not Req.	
Q-418	Not Req.	
Q-419	Not Req.	
Q-420	Not Req.	
Q-421	Not Req.	
Q-422	Not Req.	
Q-423	Not Req.	
Q-424	Not Req.	
Q-425	Not Req.	
Q-426	Not Req.	

# PARTS LIST AND DESCRIPTIONS (Continued)

## COILS (cont)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		ADMIRAL PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L10 L11	Series Peaking Coll Series Peaking Coll	73A24-2 73B5-26	19-3036 19-3180*	TV-180 TV-184*	6176 6180*	35 Microhenries 188 Microhenries; Wound on 4700Ω resistor.
L12	Shunt Peaking Coll	73B5-25	19-3500		6174	505 Microhenries
L13	4.5MC Trap	72C132-1				
L14	Series Peaking Coll	73B5-14	19-3250▲	TV-185▲	6181▲	254 Microhenries; Wound on 18K resistor.
L15	Shunt Peaking Coll	73All-1			6156■	790 Microhenries; Wound on 10K resistor.
L16 L17	Sound IF Ratio Det.	72C132-1 72C68-2	17-1033	TV-110	1498	Tertiary winding = .7Ω

\* Parallel with 4700Ω resistor.

▲ Parallel with 18K resistor.

■ Parallel with 10K resistor.

## TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.	REPLACEMENT DATA							NOTES
		ADMIRAL PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	RCA TYPE No.	Ram PART No.	Thordarson PART No.	
L18	53Ω	*	94C17-4		TV-164				

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 Ω)	ADMIRAL PART No.	Hallidson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L19	.220A	55Ω	1.3HY	74B18-13	C5037 ①	C-2996 ①	C-2326 ①	26C44 ①	C-24X

① Drill one new mounting hole.

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ADMIRAL PART No.	REPLACEMENT DATA			
K1	Vertical Integrator	2000MMF, 5000MMF, 5000MMF, 22K, 8200Ω, 8200Ω	63C9-1	Aerovox PA-110 Centralab PC-100 Cornell-Dubilier 115TMI Erie 1405-01 Sprague V-1			

## RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA						SARKES TARZIAN PART No.
		CURRENT (Measured)	ADMIRAL PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	MALLORY PART No.	
M1	93A5-2 ① ③	1215 ① ②		1T1 ① ②				

① Selenium type, horiz. phase detector.

② Required.

③ Used in chassis 18Z4ESB, 18Z4FSB stamped run 10-13; chassis 18Y4LSA, 18Y4EFA, 18Y4PSA stamped run 19 and higher; chassis 18Y4BSA stamped run 18; chassis 18Z4ESA, 18Z4PSA, 18Z4ES, 18Z4FS, 18Z4FSA, 18Z4LSA stamped run 10-13; chassis 18Z4ESB, 18Z4FSB stamped run 14; chassis 18Y4ESA stamped run 18 & lower; chassis 18Y4BSA stamped run 19; chassis 18Z4ESA, 18Z4PSA, 18Z4ES, 18Z4FS, 18ZELSA stamped run 14 use 6AL5 tube in this application.

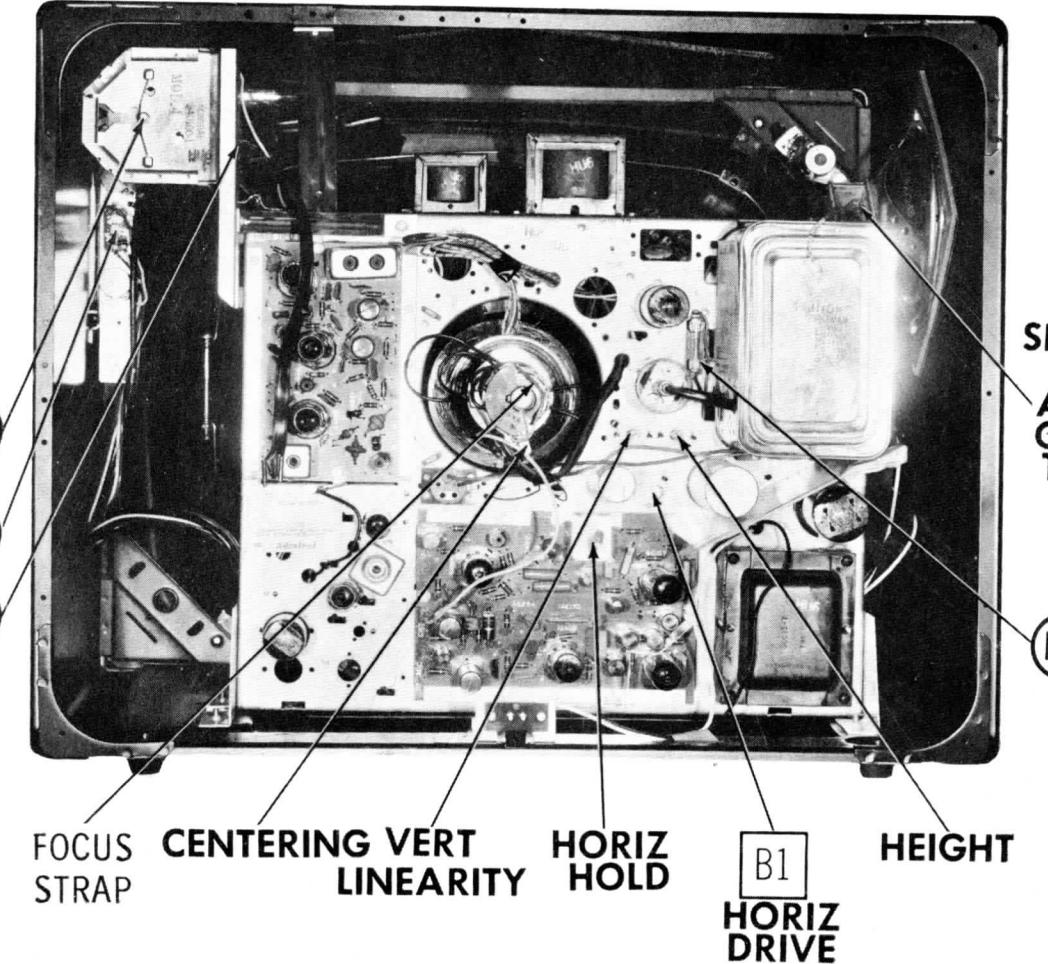
## FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				
			ADMIRAL PART No.	LITTELFUSE PART No.	BUSS PART No.		
M2	3AG	1/2A 125V S/B	84A1-3*	84A5-4	313.500 (3AG-3A-S/B)	35700L MDL 1/2	4405

\* Not used in early versions.

## MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES			
M3	Dial Light	81A1-12	#51-Not used in some versions.			
M4	Tuner	94D100-1	VHF, Used in chassis 18Z4PSA.			
	Tuner	94D100	VHF, Used in chassis 18Y4ESA, EFA, PSA, LSA, BSA(Run 18, 19)			
	Tuner	94D100-2	VHF, Used in chassis 18Z4ESA, FSA, LSA, PSA.			
M5	Tuner	94E142-1	VHF, Used in chassis 18Z4ESB, FSB stamped run 13-15.			
	Ant. Matching Network	94D110-2	VHF, Used in chassis 18Z4ES, FS.			
M6	Switch	AB313	Includes Coils and Caps.			
M7	Centering Device	76A31-1	Local-Distance, Rotary Wafer Type.			
M8	Ion Trap	94B121-1	Includes Rear Yoke Cover.			
	Yoke Clamp	94A15-4				
	Printed Board	19A112-3				
	Printed Board	A4861-4	Video IF			
	Focus Jumper	A5294	Sync, Used with 6CG7, Alt. part #A4864-2 used with 12AU7.			
	Sync Couplate	18A134				
		63C64	Not used in some versions.			



### CABINET—REAR VIEW

#### **HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS**

1. Turn the set on and tune in a TV station, preferably with a test pattern.
2. Set the brightness and contrast controls for a normal picture.
3. Turn the horizontal hold clockwise until the picture loses sync. It may be necessary to switch off channel and back again for picture to lose sync.
4. Turn the horizontal hold slowly counter clockwise until the picture just falls into sync.
5. Turn to an unused channel. If vertical lines appear near the center of the screen, slowly adjust the horizontal drive trimmer (B1) until white lines disappear.
6. If in step 5 the horizontal drive was adjusted, tune in a TV station and repeat steps 3 and 4. Check horizontal sync by switching off channel and back again.

**CHASSIS BOTTOM VIEW**

