

**CABINET—REAR VIEW**

## HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune to a TV station and set all controls for normal operation. Adjust the Horizontal Hold control (Horizontal Stabilizer coil), L17, until the

picture is in sync and cannot be disrupted when switching from channel to channel.

## DISASSEMBLY INSTRUCTIONS

### CHASSIS REMOVAL

1. Remove rear cover and disconnect tuner power plug and yoke plug from chassis.
2. Disconnect picture tube socket and high voltage anode lead.
3. Remove 4 chassis screws from bottom of cabinet. Remove chassis.

from top of cabinet.

2. Remove 6 screws from tuner mounting bracket and remove bracket assembly.

3. Remove 2 screws from each corner of picture tube and remove picture tube.

### PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" instructions and remove knobs and handle

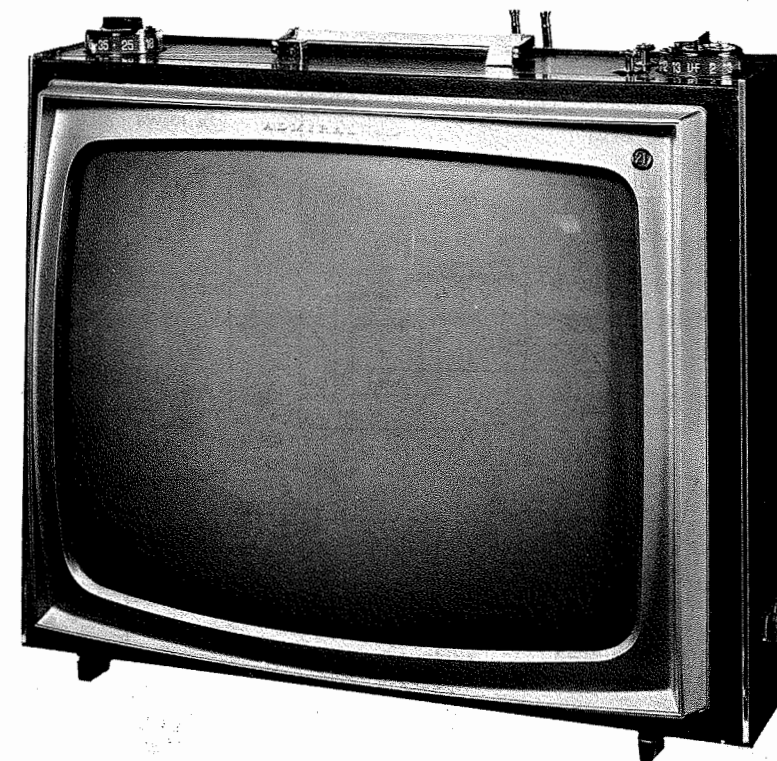
SET 784 FOLDER 1

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

PHOTOFACT® Folder

with CIRCUITRACE®

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series



MODEL PG2101M

**CAUTION**

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	ADMIRAL	Models	Chassis
		PG2101M, PG2108M, PG2110M, PG2119M, PG2127M	9G410-1 or 9G413-1 or 9G416-1
		PG9300M, PG9309M	8G423-1
		PG9420M, PG9421M	G422-1
		PG9621M, PG9625M, PG9637M	G416-1 or G417-1
		LG3001M	2G424-1
SUPPLIER	For current address, see Master Index.		
TYPE SET	Television Receiver		
TUBES	VHF - Eleven, UHF - One Transistor		
POWER SUPPLY	110-120 Volts AC, 60 Cycles		
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Inter-carrier)		
		RATING	98 Watts, .95 Amp. @ 117 Volts AC

## SERVICING IN THE FIELD

### SAFETY GLASS

The safety glass is an integral part of the picture tube.

### FUSE OR FUSE DEVICE

A Circuit Breaker is used for low voltage power supply protection and may be reset by depressing the reset button. (See "Tube Placement Chart" for location.)

### VHF OSCILLATOR ADJUSTMENT

Set fine tuning at the center of its range and adjust osc. slug (one for each channel) for best sound and picture.

### AGC

No provision is made to vary the AGC on this receiver.

### HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The Horizontal Frequency Slug is used for the horizontal hold. (See "Tube Placement Chart" for location.)

### FOCUS

The focus may be varied by connecting the lead from pin 4 of the picture tube to various voltage points. (For location, see "Chassis - Top View".)

### CENTERING

Centering is accomplished by 2 magnetic rings located on yoke rear cover.

**HOWARD W. SAMS & CO., INC.** Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NA483 10 9 8 7 6 5 4, 2 1 0

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SET 784 FOLDER 1

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

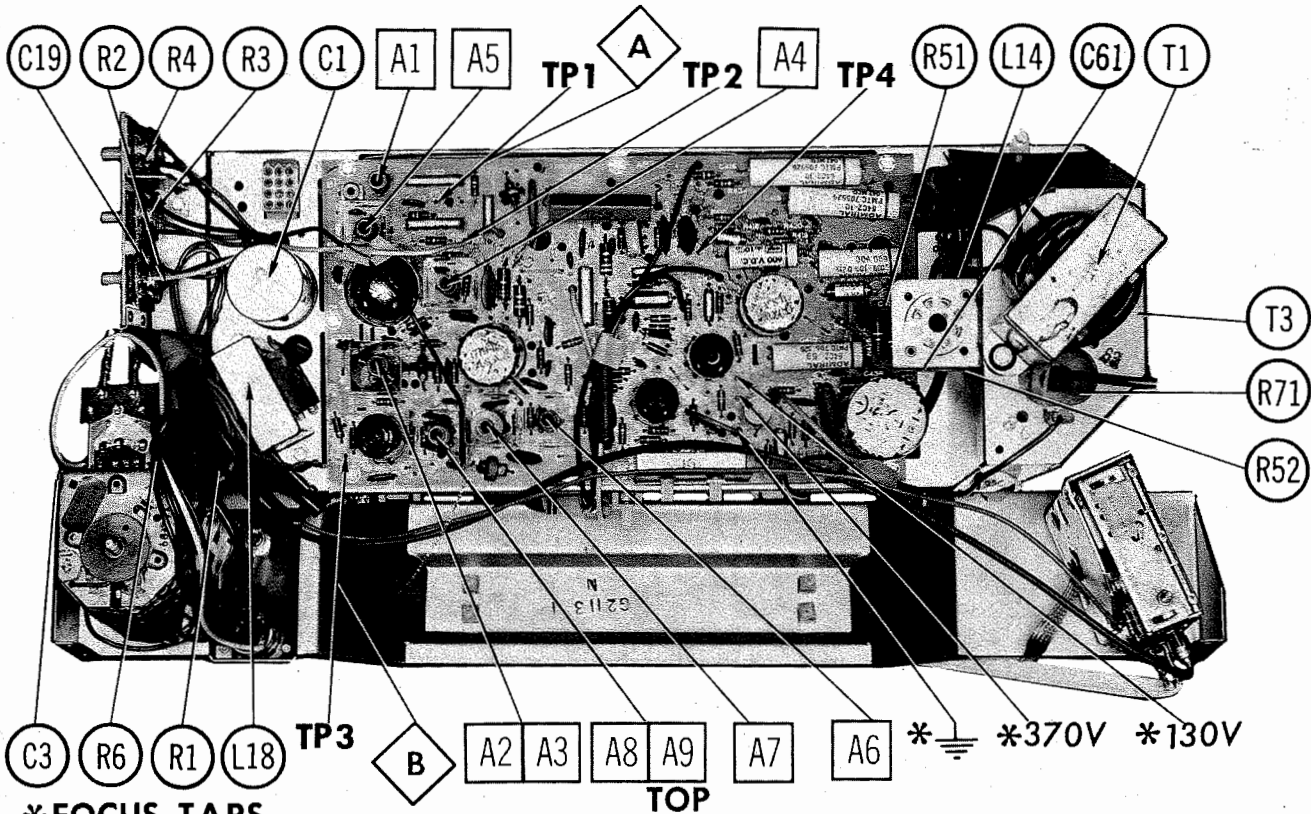
SET 784 FOLDER 1



RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
V1	8BM11	22Ω	245Ω †	245Ω †	0Ω	120Ω	0Ω	725Ω †	0Ω	725Ω †	33Ω	160K	18Ω
V2	10LW8	0Ω	100K	22K †	22Ω	25Ω	10Ω	1200Ω •	6800Ω †	4200Ω †			
V3	6GH8	30K † #	37K †	17.75Ω †	7Ω	11Ω	1.8meg	5000Ω † #	0Ω	15meg †			
V4	17BF11	30Ω	680Ω	15.7Ω	0Ω	470K	15K †	430K †	75K	120Ω	6800Ω †	225.5Ω †	25Ω
V5	17JZ8	12Ω	2.9meg	NC	167.5Ω †	NC	1.5meg	1.5meg	26Ω †	0Ω	850K	0Ω	18Ω
V6	8FQ7	15K †	760K	1000Ω	7Ω	3Ω	47K †	72K	1000Ω	0Ω			
V7	38HE7	44Ω	25Ω †	NC	850K	5Ω †	NC	NC	0Ω	1.2meg	NC	1500Ω †	30Ω
V8	1AY2			PINS 1 AND 2 HAVE INFINITE RESISTANCE									TOP CAP 573Ω †
V9	21FVP4	12Ω	0Ω	42K	470K	NC	NC	100K	11Ω				
V201	3GK5	0Ω	4.2meg	0Ω	1Ω	1200Ω †	0Ω	0Ω					
V202	6CG8	15K	5000Ω †	0Ω	3Ω	1Ω	1000Ω †	14K †	0Ω	220K			

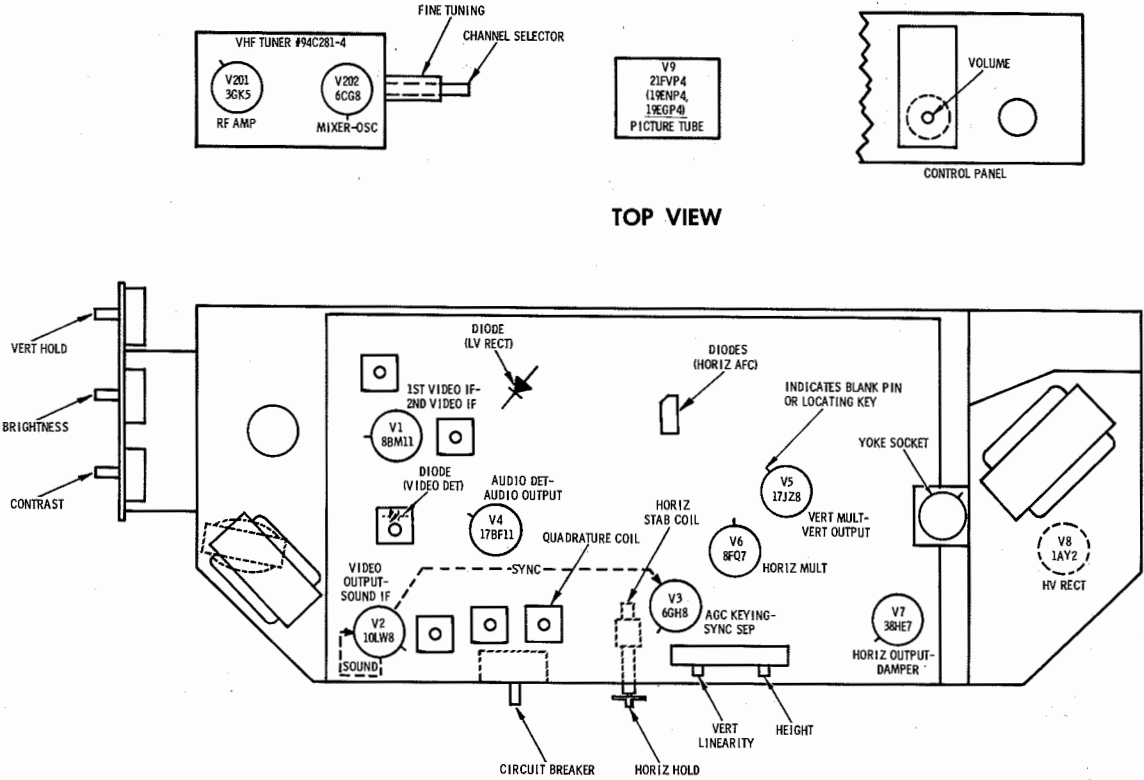
# THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.  
• READING DEPENDS ON POLARITY OF METER CONNECTIONS.  
NC NO CONNECTION  
† MEASURED FROM OUTPUT OF X1.  
‡ MEASURED FROM PIN 4 OF V7.



\*FOCUS TAPS  
TP1 -.04V IF AGC-TP2 .5V TUNER AGC-TP3 -.1V DET OUTPUT-TP4 130V HORIZ STABILIZER

CHASSIS—TOP VIEW

TUBE PLACEMENT CHART



TOP VIEW

TUBE FAILURE CHECK CHART

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

<b>POWER SUPPLY FAILURE</b> No raster, no sound Circuit Breaker M1, Rectifier X1	<b>LOSS OF PICTURE OR SOUND</b> No pic, no sound, has raster V1, Video Det. X2, V2 No pic, no sound, has snow V201, V202, V1 No pic, has sound, has raster V2, V9 Has pic, no sound V2, V4 Overloaded picture V3
<b>SWEEP FAILURE</b> No raster, has sound V1, V7, V8, V9 No vertical deflection V5 Poor vert. linearity or foldover V5 Poor horiz. linearity or foldover V6, V7, V8 Narrow picture V8, V7, V8, X1 Vert. off freq. V5 Horiz. off freq. AFC Diode X3, V6	<b>SYNC FAILURE</b> No vert. sync V3 No horiz. sync V3 No vert. or horiz. sync V3

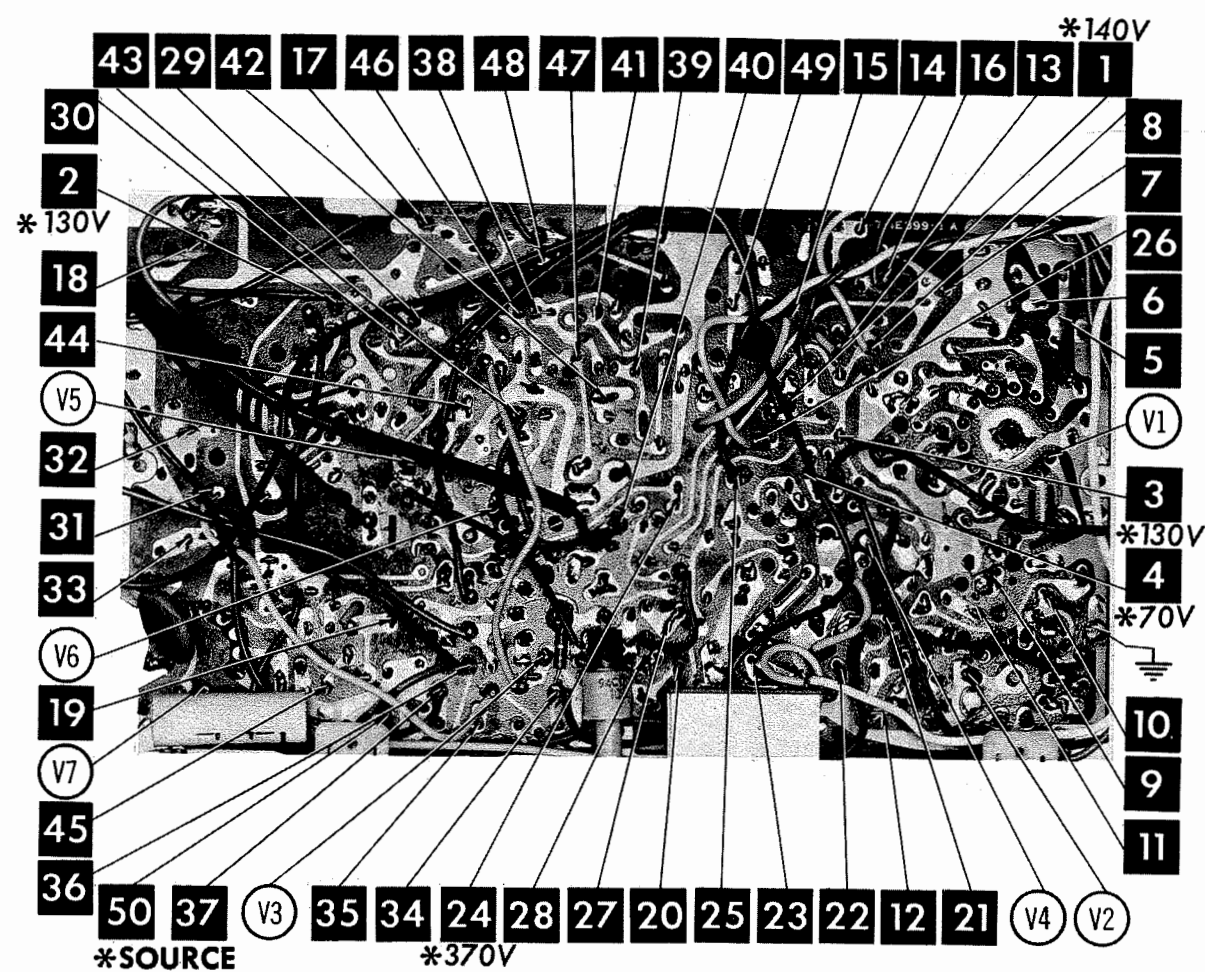
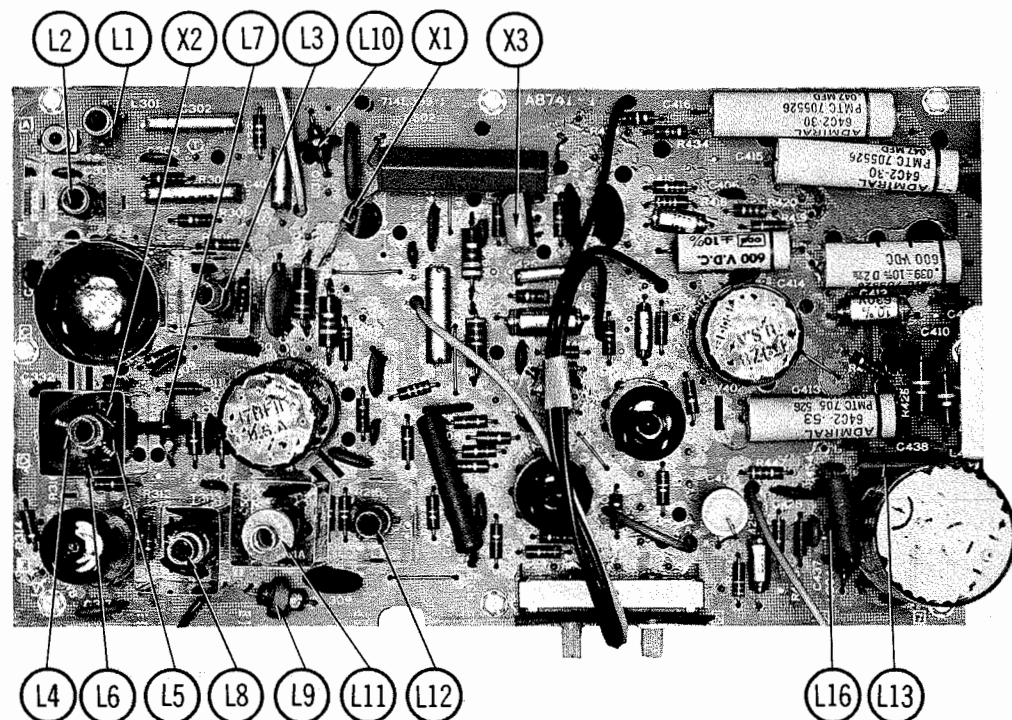
This receiver employs tubes used in a series filament network, an open filament in any tube will cause the set to be inoperative. (See circuit below.)

TO TERM. 2 OF POWER SOCKET AND CIRCUIT BREAKER, M1.

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

FOLDER 1

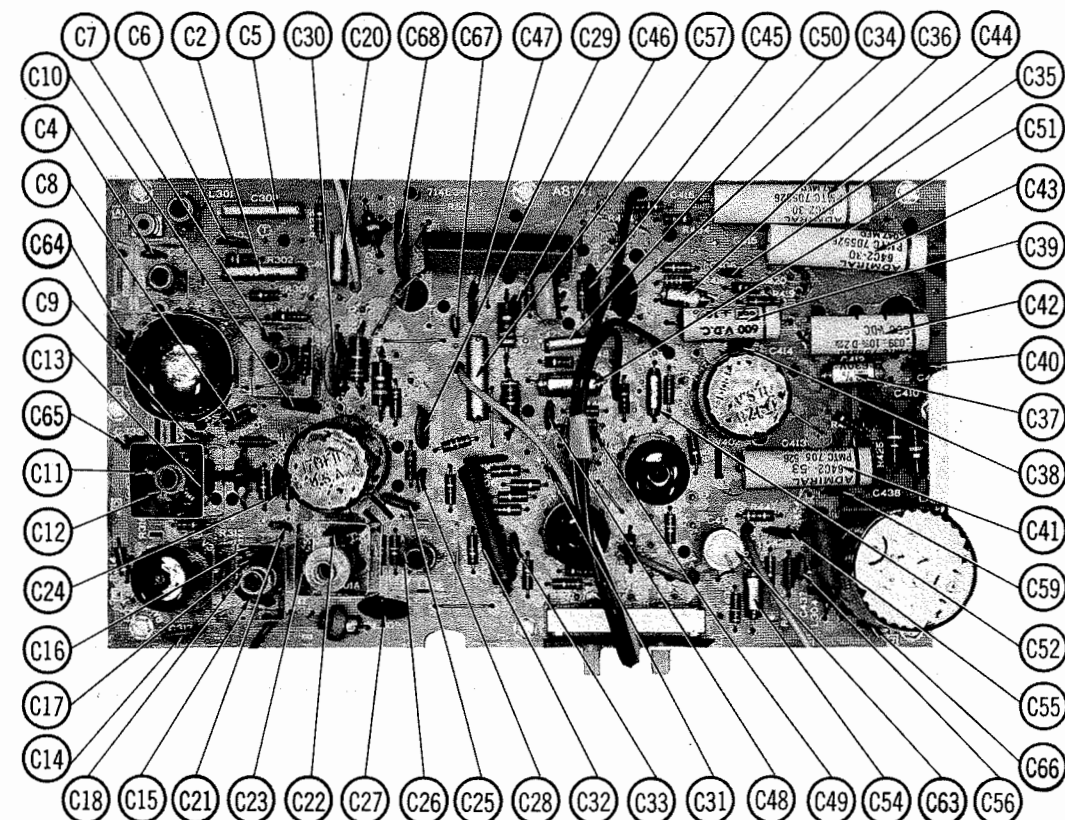
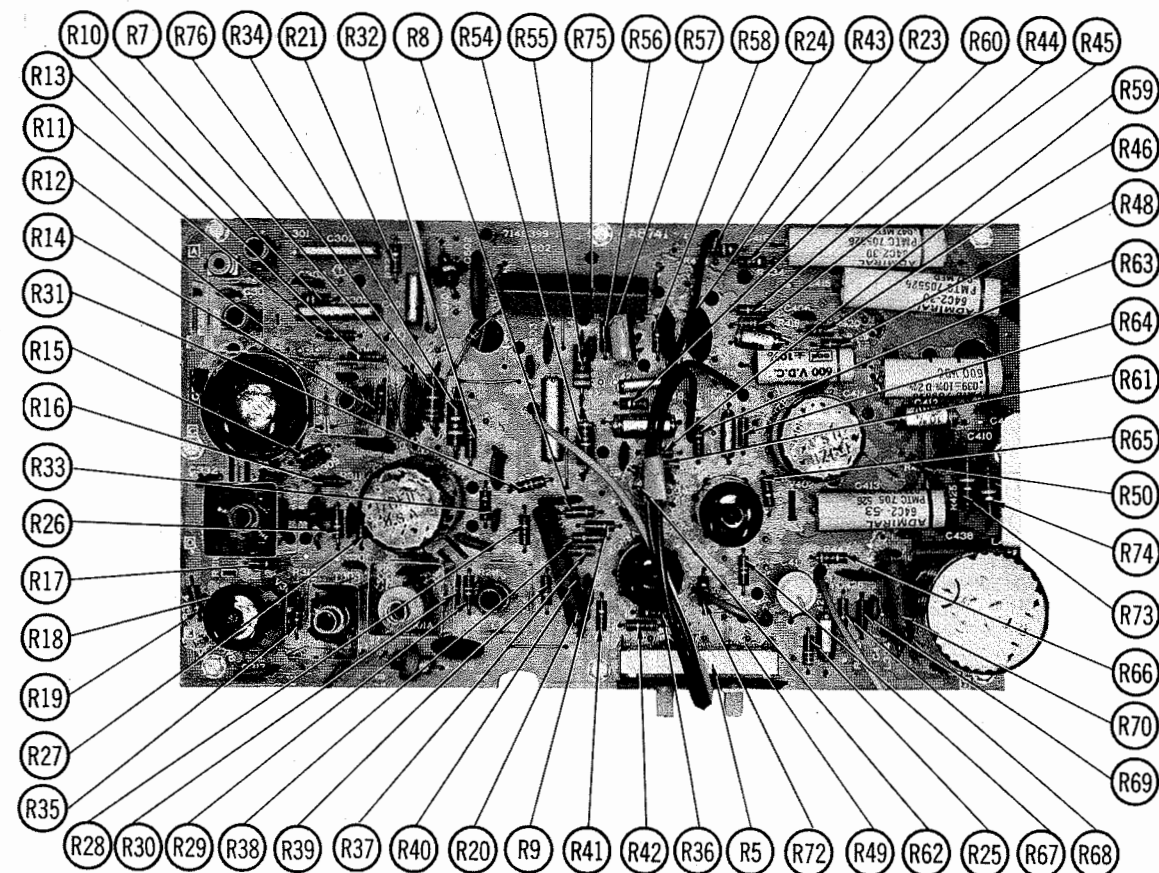




ARROWS INDICATING TUBE LOCATIONS ARE  
POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

A Howard W. Sams CIRCUITRACE Photo

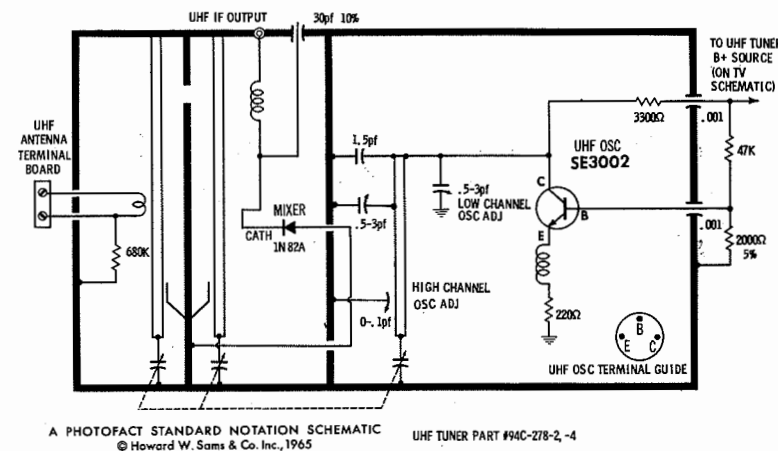
PRINTED CIRCUIT BOARD



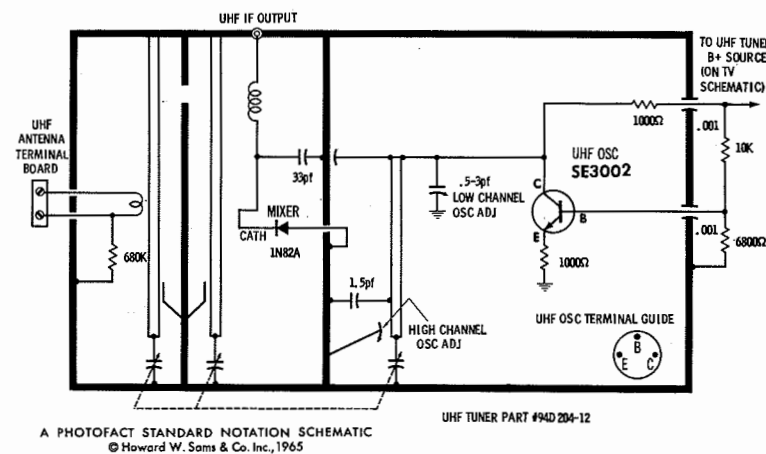
PRINTED CIRCUIT BOARD

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

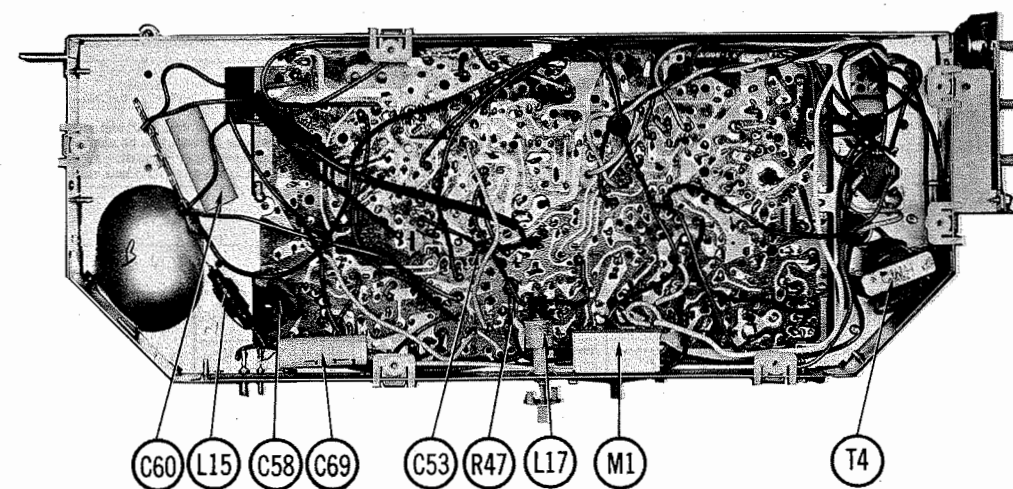
FOLDER 1



UHF TUNER 94C278-2, -4



UHF TUNER 94D204-12



CHASSIS — BOTTOM VIEW

## ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.  
Suggested Alignment Tools: A1 thru A9 ..... GENERAL CEMENT #8808, 8889, 9302 ... WALSCO #2511, 2543, 2588  
Mixer Plate Coil ... GENERAL CEMENT #9298, 9300, 9302 ... WALSCO #2510, 2511, 2547

### VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (point  $\diamond$ ) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point $\diamond$ . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		47.25MC	A1	Adjust for MINIMUM.
2. Connect DC probe of a VTVM thru a 47K resistor to point $\diamond$ . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		42.7MC 44.2MC 44.8MC 43.3MC	A2 A3 A4, Mixer Plate Coil A5	Adjust for maximum.
3. Connect vertical input of a scope to point $\diamond$ . Low side to ground.	Connect high side to pin 6 (grid) of V1. Low side to ground.	44MC (10MC Sweep)	42.75MC 45.75MC	A2, A3	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
4. Connect vertical input of a scope to point $\diamond$ . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	42.75MC 44.25MC 45.75MC 47.25MC	A4, A5 & Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A2 and A3.

### SOUND IF ALIGNMENT

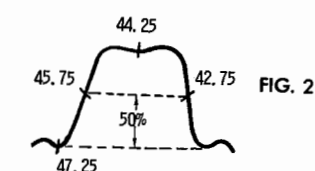
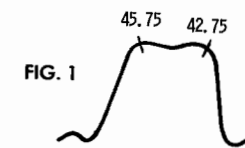
Tune in a station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound. Align for maximum undistorted sound with MINIMUM buzz by adjusting. If the hiss disappears during alignment, further reduce the signal strength.

### 4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A9 for MINIMUM beat interference.

### SOUND IF ALIGNMENT

Tune in a station and adjust A6 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce signal while aligning for undistorted output by adjusting A7 and A8.

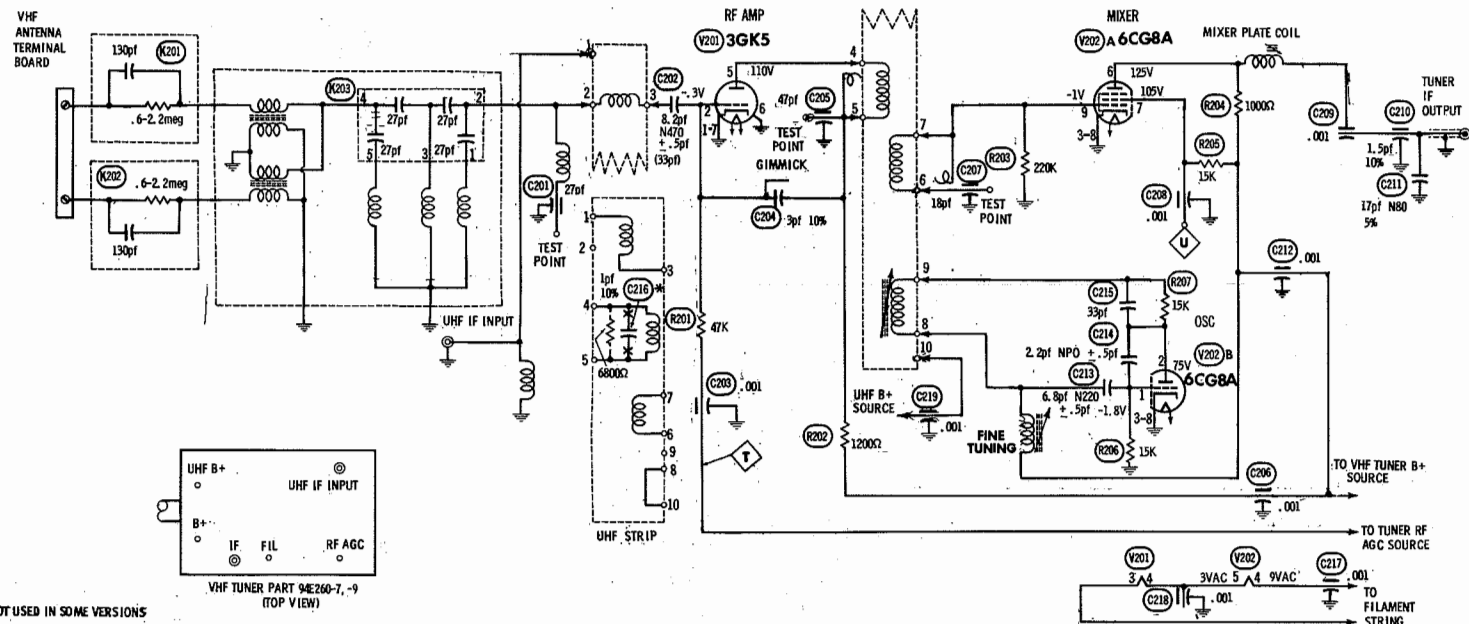


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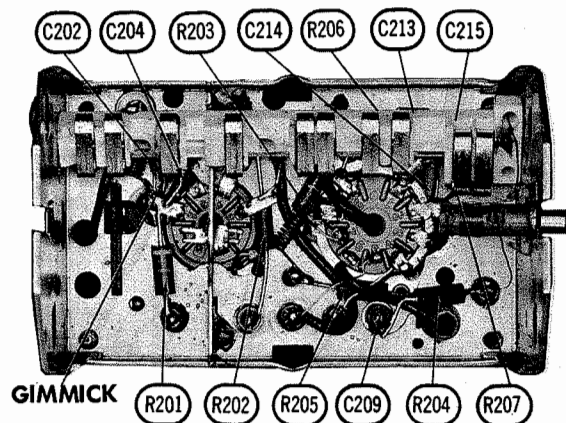
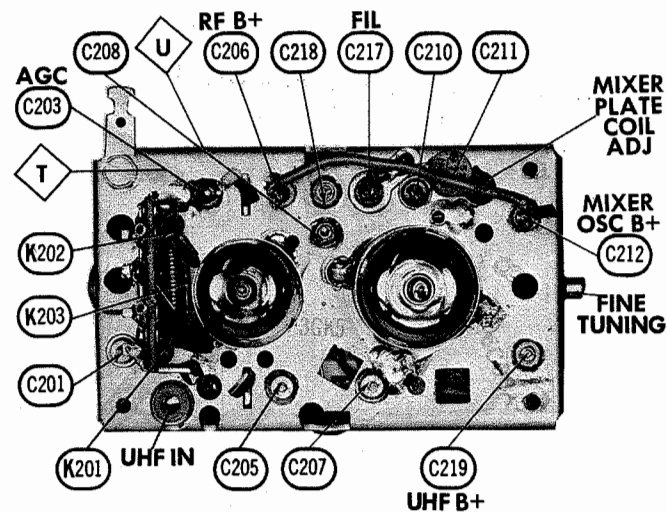
ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

FOLDER 1

FOLDER 1



\* NOT USED IN SOME VERSIONS  
A PHOTOFACT STANDARD NOTATION SCHEMATIC  
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13 POSITION TURRET-TYPE VHF TUNER 94E260-7, -9

## VHF TUNER PARTS LIST AND DESCRIPTION

VHF TUNER 94E260-7, -9

### TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	3GK5	V202	Mixer - Osc.	6CG8A

### CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA							
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.		
C201	27	(33) †	EF-001	MFT-1000	C10V22C LA10Q33-S3	•	CT280A	10TCT-V		
C202	8.2 N470 ±.5					CCF-102				
C203	.001		EF-001	MFT-1000		CCF-102	CT280A			
C204	3 10%					CCF-102	CT280A			
C205	47		EF-001	MFT-1000		CCF-102	CT280A			
C206	.001		EF-001	MFT-1000		CCF-102	CT280A			
C207	18		EF-001	MFT-1000		CCF-102	CT280A			
C208	.001		EF-001	MFT-1000		CCF-102	CT280A			
C209	.001		①	NPO-DI 2.2 DI-33		DTZ-2R2 DD-330	•		CT280A	10TCR-V 10TCC-V 10TB-Q33
C210	1.5 10%						CCF-102			
C211	17 N80 5%	CCF-102			CT280A					
C212	.001	CCF-102			CT280A					
C213	6.8 N220 ±.5	EF-001	MFT-1000	C10V22C LA10Q33-S3	•	CT280A	10TCR-V 10TCC-V 10TB-Q33			
C214	2.2 NPO ±.5				CCF-102			CT280A		
C215	33				CCF-102			CT280A		
C216	1 10%				CCF-102			CT280A		
C217	.001				CCF-102			CT280A		
C218	.001	EF-001	MFT-1000	C10V22C LA10Q33-S3	CCF-102	CT280A	10TCR-V 10TCC-V 10TB-Q33			
C219	.001	EF-001	MFT-1000		CCF-102	CT280A				

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

### COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ADMIRAL PART NO.	REPLACEMENT DATA
K201	Antenna Isolation	.6-2meg, 130pf		
K202	Antenna Isolation	.6-2meg, 130pf		
K203	Antenna Network	27pf, 27pf, 27pf, 27pf	65A100	

## VHF TUNER ALIGNMENT INSTRUCTIONS

### OSCILLATOR ADJUSTMENTS

The oscillator for each channel is preset by means of the fine tuning control. Adjust fine tuning for best picture and sound on each channel.

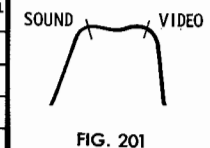
### RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at point T. Adjust bias to obtain response curve which shows no indication of overloading.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminals with 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point U, low side to ground.		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2. "	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	Gimmick	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3. "	See Chart	See Chart	12 thru 2	Vert. Input to Point T, low side to ground.		Decrease bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils.

### CHANNEL & FREQUENCY CHART

SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL
57MC	55.25MC 59.75MC	2	85MC	83.25MC 87.75MC	6	195MC	193.25MC 197.75MC	10
63MC	61.25MC 65.75MC	3	177MC	175.25MC 179.75MC	7	201MC	199.25MC 203.75MC	11
69MC	67.25MC 71.75MC	4	183MC	181.25MC 185.75MC	8	207MC	205.25MC 209.75MC	12
75MC	73.25MC 77.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13



### UHF TUNER ALIGNMENT INSTRUCTIONS

Tune to a UHF station and adjust UHF IF Input Coil for best picture and sound. Tune UHF Channel Selector to the lowest UHF channel operating in the area (low end of the dial). Adjust UHF Low Channel Oscillator Trimmer for best picture and sound.

ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series  
ADMIRAL CHASSIS  
G4, 2G4, 8G4, 9G4 Series

FOLDER 1  
FOLDER 1



CABINETS & CABINET PARTS  
(When Ordering Specify Model, Chassis & Color)

ITEM	PART NO.	MODELS									
		PG2101M	PG2108M	PG2110M	PG2119M	PG2127M	PG9300M	PG9309M	PG9420M	PG9421M	PG9625M
Knob-VHF Channel Selector	33C788-1		X								
Knob "	33C790-1		X								
Knob "	A9726					X	X				
Knob "	33C768-7							X			
Knob "	33C768-8								X		
Knob "	33B670-2								X	X	X
Knob-VHF Fine Tuning	33C593-1					X	X				
Knob "	33C514-25							X	X		
Knob "	33C627-6								X	X	X
Knob-Fine Tuning, Volume	20C63-19	X	X								
Knob "	20C63-20			X	X	X					
Knob-UHF Channel Selector	33C790-1		X								
Knob "	33C528-13					X	X				
Knob "	33C768-10							X			
Knob "	33C768-9								X		
Knob "	33B670-3								X	X	X
Knob-UHF Fine Tuning	33C528-12					X	X				
Knob "	33C769-3							X	X		
Knob-UHF Channel Indicator	33C788-2			X							
Knob-Brightness, Contrast, Vert.	33B415-18		X								
Knob " "	33B415-13					X	X				
Knob " "	33C345-13							X	X		
Knob " "	33C415-9								X	X	X
Knob-On/Off/Volume	20C63-1					X	X				
Knob "	33C627-24							X			
Knob "	33C627-23								X		
Knob "	20C80-1								X	X	X

MODELS	CABINETS		PART NO.	CABINETS		PART NO.
PG2101M	Front Assembly	Brown	799A1633	Back Assembly	Brown	799A1545
PG2108M	Front Assembly	Gray	799A1634	Back Assembly	Gray	799A1639
PG2110M	Front Assembly	Black	799A1635	Back Assembly	Black	799A1640
PG2119M	Front Assembly	White	799A1636	Back Assembly	White	799A1544
PG2127M	Front Assembly	Walnut	799A1637	Back Assembly	Brown	799A1545
PG9300M	Front Assembly	Black	34E226-18	Back Assembly	Black	33E582-10
PG9309M	Front Assembly	White	34E226-19	Back Assembly	White	33E582-11
PG9420M	Front Assembly	Black	799A1598	Back Assembly	Black	799A1600
PG9421M	Front Assembly	Tan	799A1599	Back Assembly	Tan	799A1601
PG9621M	Front Assembly	Sandalwood	799A1546	Back Assembly	Sandalwood	799A1542
PG9625M	Front Assembly	Green	799A1547	Back Assembly	Green	799A1543
PG9637M	Front Assembly	Brown	799A1549	Back Assembly	Brown	799A1545

ITEM	MODEL	PART No.	ITEM	MODEL	PART No.
Knob - VHF Fine Tuning	LG3001M	33C514-14	Knob - On/Off/Volume	LG3001M	33C415-14
Knob - UHF Fine Tuning	"	33D714-1	Knob - On/Off/Volume	"	75C44-29
Knob - UHF Selector	"	33D713-5	Cabinet - Walnut	"	35E1081-1
Knob - Brightness, Contrast	"		Cabinet Back	"	43C524-2
Knob - Vertical	"	33C345-15	Cabinet Legs	"	35E1081-51

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.  
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

TUBES

AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V1	1st Video IF - 2nd Video IF	8BM11		V5	Vert. Mult. - Vert. Output	17JZ8	
V2	Video Output - Sound IF	10LW8		V6	Horiz. Mult.	8FQ7	
V3	AGC Keying - Sync Sep.	6GH8		V7	Horiz. Output - Damper	38HE7	
V4	Audio Det. - Audio Output	17BF11		V8	HV Rectifier	1AY2	

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	ADMIRAL PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V9	21FUP4 23FRP4 19ENP4 19EGP4		19ENP4A ①	21FUP4 ② 23FRP4 ② 19ENP4 ② 19EGP4 ②	① Aluminized ② Silver Screen "85"

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Port or Type No.	RECTIFIERS				DIODES GENERAL ELECTRIC PART No.
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	.36A	93B12-3	GE-504 or 1N1695	1N540 or 1N2070	9K-3016 or 9K-3017	40C or F2	
X2		1N87A					1N60
X3		93B5-9					6GC1

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA				
	CAP.	VOLT.	ADMIRAL PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
C1A	▲ 250	200	67D15-382	AFHS3-86-85	DD0015	XC4-77	FF318.85
B	■ 200	150					
C	▲ 50	150					

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C2	.22	200V	DBE2P22		WMF1P22	2DP-4-224	PVC2022	2PS-P22
C3	17	N90 5%						
C4	6.8	NPO ±.25						
C5	.22	200V	DBE2P22		WMF1P22	2DP-4-224	PVC2022	2PS-P22
C6	.0015		BPD-0015	DD-152		CCD-152	B215	5HK-D15
C7	.680	10%	DI-680	DD-681	JBY801YP881K	CCD-681	JF368	10TS-T68
C8	.0015		BPD-0015	DD-152		CCD-152	B215	5HK-D15
C9	.580	10%	DI-580	DD-581	JBY801YP561K	CCD-561	GP356	10TS-T56
C10	.0047		BPD-0047	DD-472	BYX801ZU472P	CCD-472	B247	5HK-D47
C11	4.7	NPO ±.25					CNO547	10TCC-V47
C12	4.5			TCZ-4R7		CCTO-4R7	CNO547	10TCC-V47
C13	8.8			DTZ-6R8	CZ801CH6R8K	CCTO-6R8	CNO568	10TCC-V68
C14	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C15	47	NPO 5%		DTZ-47			CNO447	10TCC-Q47
C16	47	NPO 5%		DTZ-47			CNO447	10TCC-Q47
C17	47	NPO		DTZ-47	CX801CG470K	CCTO-470	CNO447	10TCC-Q47
C18	4.7		NPO-DI 47	DTZ-4R7		CCTO-4R7	CNO547	10TCC-Q47
C19	22	N750 10%	N750-DI 22	DTN-22	CZ801UJ220K	CCTN-220	CN7422	10TCU-Q22
C20	.1	200V	P288N-1	DF-104	PM2P1	2DP-3-104	PVC201	2TM-P10
C21	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C22	.82	NPO 5%		DTZ-82			CNO482	10TCC-Q82
C23	4.5			TCZ-4R7		CCTO-4R7	CNO547	10TCC-V47
C24	.0022		BPD-0022	DD-222	BYY801ZU222P	CCD-222	B222	5HK-D22
C25	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C26	18	N220 5%					*	10TCR-Q18
C27	.02		BPD-02	DD-203	BYT801ZU203Z	CCD-203	B120	5HK-S20
C28	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C29	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C30	.01	1KV	DAC-27	DD16-103	ACT142ZU103P	18DP-3-103	UAC110	125L-S10
C31	.001	1KV	BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C32	.220		DI-220	DD-221	JBZ801YP221K	CCTD-221	B322	5GA-T22
C33	.0047		BPD-0047	DD-472	BYX801ZU472P	CCD-472	B247	5HK-D47
C34	100	NPO 5%		DTZ-100			CNO310	10TCC-T10
C35	330			DD-331	JBZ801YP331K	CCD-331	JF333	10TS-T33
C36	.0015	10%		CPR-1500J	CD19F152K500	DM-16-152K	SX215	MS-215
C37	.0047	10%		CPR-4700J	CD19F472K500		SX247	MS-247

## PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.  
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

## CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C38	.001	10%	DI-1000	DD-102	JBS801YP102K	CCD-102	JF210	10TS-D10
C39	.022	600V 10%	DBE8S22		WMP8S22	8DP-2-223	PVC6122	6PS-822
C40	.001	1KV	BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C41	.033	1KV 10%	BE10S33		DPMS16S33	18DP-5-333	GEM10133	10TM-S35
C42	.039	600V 10%	DBE8S39		DPMS8S39	8DP-3-393	PVC6139	6PS-839
C43	.047	1KV	P1088N-047		PKM10S47	18DP-5-473	GEM10147	10TM-S47
C44	.047	1KV	P1088N-047		PKM10S47	18DP-5-473	GEM10147	10TM-S47
C45	100	NPO 5%		DTZ-100			CNO310	10TCC-T10
C46	15	N750 10%	N750-DI 15	DTN-15	CZ801UJ150K	CCTN-150	CN7415	10TCU-Q15
C47	.0022	10%	DI-2200	CF-222	JBX801YP222K	CCD-222	JF222	10TS-D22
C48	.001	1KV	DI-1000	DD-102	JBS801YP102K	CCD-102	JF210	10TS-D10
C49	.0022	10%	BPD-0022	DD-222	BYX801ZU222P	CCD-222	B222	5HK-D22
C50	.047	200V	P288N-047	DD-503	PM2847	4DP-3-473	PVC2147	2TM-S47
C51	.0039	10%		CPR-390J	CD19F392K500	DM-15-821J	SX239	MS-239
C52	820	5%		CPR-820J	CD19F821J500	DM-15-821J	SX382	MS-382
C53	5 N750	1KV 10%		CPR-1500J	CD19F152K500	CCTN-050	CN7550	10TCU-V50
C54	.0015	10%		DD-472	BYX801ZU472P	DM-16-162K	SX215	MS-215
C55	.0047	10%		TCL-100	PM6S47	CCD-472	B247	5HK-D47
C56	100	N1500 10%	BE6S47		PM6S47	8DP-3-473	PVC6147	6TM-S47
C57	.047	600V				*	*	*
C58	110	N1500 5KV 10%				*	*	*
C59	100	N1500				*	*	*
C60	.1	1KV	BE10P1		PKM10P1	18DP-5-333	GEM1001	10TM-P10
C61	.033	1KV	BE10S33		PKM10S33	18DP-5-333	GEM10133	10TM-S35
C62	82	N750 3KV 10%						
C63	.047	600V	BE6S47		PM6S47	8DP-3-473	PVC6147	6TM-S47
C64	820		DI-820	DD-821	BYZ801ZU821P	CCD-821	B382	5GA-T82
C65	820		DI-820	DD-821	BYZ801ZU821P	CCD-821	B382	5GA-T82
C66	100	N1500				*	*	*
C67	.001	1KV	BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C68	.01	1.4KV	DAC-27	DD16-103	ACT142ZU103P	18DP-3-103	UAC110	12SL-S10
C69	.1	600V	P688N-1	DF-104	PM6P1	6DP-4-104	GEM601	6TM-P10

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

## CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			ADMIRAL PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume/Switch	1meg	75D1-169④	F1-1meg, SN200, KR-2	A47-1meg-S, RN-3①, SWE-20	BUI, CF17, SS6①, WF *	UA161, SN2000, U842 or (RU161, SL38, SN2000, U842)
	Volume/Switch	1meg	75D1-166⑤	F1-1meg, SFS212, KR-2	A47-1meg-S, RS-3/16, SWE-20	B11-137, SK9, 76-2 or (BU2, CF17, S84, WF) *	UA161, SD3500, U842 or (RU161, SL38, IS1812, U842) or (U54, DS37, U827)
R2	Contrast	30K, 4.8K Stop	75D20-183	F1-25K③, SNF100		B11-120③, TM10 or (BU11, CF11③, SS16, DC1) *	UA2531③, SD1187 or (RU2531③, SL37, SD1187)
R3	Brightness	100K	75D20-184⑥	F1-100K, SNF100		B11-128, TM10 or (BU11, CF13, SS16, DC1) *	UA151, SD1187 or (RU151, SL37, SD1187)
R4	Vert. Hold	1.2meg	75D20-185⑦	F1-1.5meg, SNF100		B11-138, TM10 or (BU11, CF18, SS16, DC1) *	UA1551, SD1187 or (RU1551, SL37, SD1187)
R5A	Vert. Linearity	500K	75D107-3				
B	Height	5meg	(75A107-3)				

① File flat.

\* "SNAPTROL"

③ Connect a 4700Ω resistor in series with the left hand terminal of the control and the lead connected to the same terminal of the original control (control viewed from shaft end, terminals down).

④ Volume/Switch, Part #75C44-28, used in Model LG3001M; Part #75D44-30 in Models PG9300M and PG9309M; Part #75D1-165 used in Models PG9420M and PG9421M.

⑤ Used in Models PG9621M, PG9625M and PG9637M.

⑥ Brightness, Part #75D20-187 used in Chassis 2G4.

⑦ Vert. Hold, Part #75D20-186 used in Chassis 2G4.

## RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R8	8200Ω 3W	PW10-8200	3C-8200	#61B24-247	R70	1500Ω 3W	PW5-1500	5W-SQ-1500	#61B24-329
R20	4700Ω 4W	PW5-5000	4C-4700	#61C24-441	R75	5Ω 10W	PW10-5	10W-SQ-5	#61C20-24
R53	Thermistor 1meg (Cold)		FR-1M	#61B41-1					

# Admiral Part Number

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					
		ADMIRAL PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.
L1	47.25MC Trap	72C286-2					
L2	1st Video IF	72C286-1					
L3	2nd Video IF	72C132-42	17-3408		7504-A	RTC-9314	TA294
L4	3rd Video IF	72C261-5			7505-A		
L5	RF Choke (28uh)	73B31-3	19-4033	TV-180	72F275AP	RTC-8583	T984
L6	RF Choke (12uh)	73B31-4	19-1010	BC-588	4822	RTC-8523	TA820
L7	Peaking (350uh)	73B5-53 ①	19-3330 *	TV-190 *	6134 *	RTC-8577 *	T319 *
L8	Sound Takeoff/4.5MC Trap	72C185-2	17-1072	TV-236	1471-A	RTC-9277	T277
L9	Peaking (500uh)	73B5-20	19-3500	TV-203	6174	RTC-8592	T324
L10	Peaking (191uh)	73B5-40 ②	19-4201 ▲	TV-197 ▲	6154 ▲	RTC-8586 ▲	T372
L11	Sound Interstage	72C208-8	17-1073		7116-A	RTC-9308	TB248
L12	Quadrature	72C132-86			7127 †	RTC-9348 †	
L13	RF Choke (28 turns)	73C37-17					
L14	RF Choke (1.7uh)	73B31-11	19-1001	BC-582	74F156AP	RTC-8516	T808
L15	Line Choke (8uh)	73C31-1			5248		
L16	FL. Choke (8.7uh)	73B31-12	19-2017	BC-585	4822	RTC-8523	T980

① Wound on 2200Ω Resistor.

② Wound on 12K Resistor.

\* Shunt with 2200Ω Resistor.

▲ Shunt with 12K Resistor.

† Disconnect 100K Resistor.

## COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						
		ADMIRAL PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	WORKMAN PART No.
L17	Horiz. Stabilizer (Hold)	94D17-18 (94C17-18)	TV-185 ① ②	6319 ②	RTC-8629 ②	HS-5 ②	WLC-25 ① ②	TA187 ① ②

① Disregard Tap.

② Install plastic sleeve on adjustment screw.

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	ADMIRAL PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L18	.360A	25.5Ω	.9 H	79D18-53 (74C18-53)	A-2998		22S26	S-62X	

## TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ADMIRAL PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	Vert. Output	79C100-12 (79D100-12)					
T2	Yoke (Horiz. 24.5mb) 110° (Vert. 13.8mb)	750C305-26 (94D285-1)	MDP-142①		Y-88 ②	YT-102-2②	
T3	Horiz. Output	750C847-4					

① Use original yoke plug and 1meg thermistor. Remove 150Ω vert. damping resistors, if necessary.

Add a lead from yoke terminals 1 and 3 to yoke plug pin 4.

② Connect per instruction sheet packaged with unit.

## \* COMPONENT CONNECTION DATA

ORIGINAL →	HV TRANSFORMER	VERTICAL OUTPUT	YOKE	YOKE PLUG
REPLACEMENT ↓	Original Connections	Original Connections	Original Connections	Original Connections
			1 2 3 4 5 6 7 8 10	1 2 3 4 5 6 7 8
MERIT			1 2 3 4 5 6 7 8 ▲	2 1 3 7 4 6 †
STANCOR				
THORDARSON				
TRIAD			1 2 3 4 5 6 7 8 ▲	2 1 3 7 4 6 †

▲ Install original Thermistor (1meg) from yoke terminal #7 to yoke plug pin #1.

† Jumper Yoke Plug pins #6 and #8.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	ADMIRAL PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T4	3585Ω	3-4Ω	79D88-6	A-2998		22S61	S-62X	

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		ADMIRAL PART No.	QUAM PART No.	
SP1	4" PM	78C205-5 78C205-4 78C158-13 78B205-2 78C174-4	4A05 26A07	Models PG2101M/08M, Models PG2110M/20M Series, Models PG9300M/09M, LG3001M, Models PG9420M/21M, Models PG9621M/25M/37M.
	2" x 6" PM	3-4Ω		

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ADMIRAL PART NO.	REPLACEMENT DATA
K1	Chassis Isolation	.75-1.5meg, .0047mfd	83C10-3	Centralab RC-490 Sprague AC1-2

## FUSE DEVICES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	Circuit Breaker	2.2A	84B17-4					

## MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES
M2	VHF Tuner	94C281-4	Chassis 9G413-1
	VHF Tuner	94E280-7	Models PG2101M, PG2108M, Chassis 9G410-1, PG2110M, PG2119M, PG2127M
	VHF Tuner	94E281-4	Chassis 9G416-1
	VHF Tuner	94E280-9	Models PG9300M, PG9309M, PG9420M, PG9321M, LG3001M
	VHF Tuner	94E280-7	Models PG9621M, PG9625M, PG9637M
M3	UHF Tuner	94D254-1	Chassis 9G413-1
	UHF Tuner	94E254-1	Models PG2101M, PG2108M, Chassis 9G410-1, 9G413-1, PG2110M, PG2119M, PG2127M
	UHF Tuner	94E276-2	Chassis 9G418-1
	UHF Tuner	94E204-12	Models PG9300M, PG9309M
	UHF Tuner	94E254-1	Models PG9420M, PG9421M
	UHF Tuner	94E256-1	Models PG9621M, PG9625M, PG9637M
	UHF Tuner	94E254-2	Model LG3001M
M4	VHF Antenna	69C318-1	Models PG2101M, PG2108M, PG2110M, PG2119M, PG2127M, PG9520M, PG9421M - JFD Replacement TA406
	VHF Antenna	69C270-6	Models PG9300M, PG9309M - JFD Replacement TA436
	VHF Antenna	69C381-2	Models PG9621M, PG9625M, PG9637M
M5	UHF Antenna	69C325-1	

## WIRING DATA

High Voltage Lead .....	Use BELDEN No. 8869 (17KV) or 8888 (25KV)
Shielded Hook-up Wire .....	Use BELDEN No. 8885 (Single Conductor)
	8738 (Two Conductor)
General-use Unshielded Hook-up Wire .....	Use BELDEN No. 8530 (Solid) Available in 12 Colors
	8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type) .....	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
300Ω Tuner Input Lead .....	Use BELDEN No. 8225
300Ω Antenna Lead-in .....	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable .....	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor