

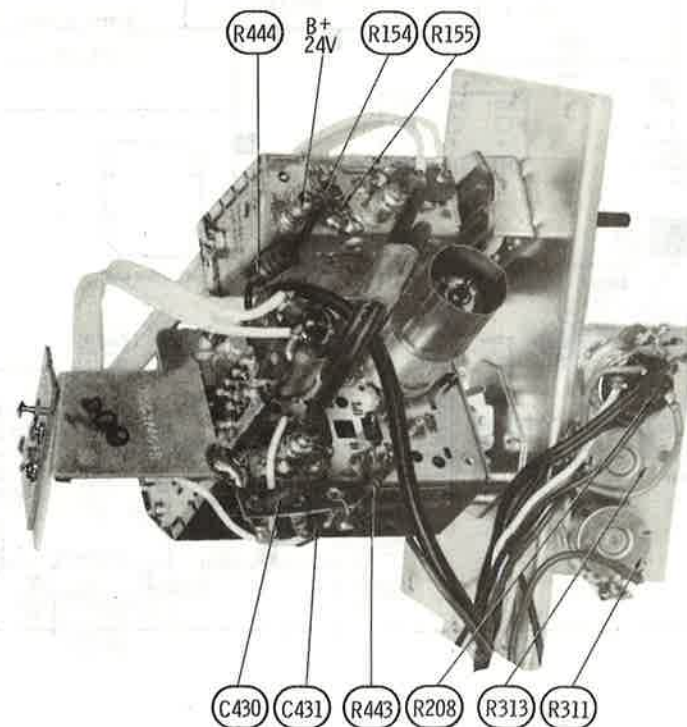
### CABINET-REAR VIEW DISASSEMBLY INSTRUCTIONS

#### CHASSIS REMOVAL

1. Remove six screws holding cabinet back. Disconnect antenna leads and remove all knobs. Remove cabinet back.
2. Remove picture-tube socket, high-voltage anode lead, deflection yoke, and speaker leads.
3. Remove two screws holding tuner assembly. Remove one screw holding control assembly.
4. Remove two screws holding chassis and remove tuner assembly, control assembly, and chassis from the cabinet.

#### PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure and lay set face down on a soft protective surface.
2. Remove eight screws holding picture tube mounting brackets and lift picture tube from the cabinet. Do not lift picture tube by the neck of the tube.



TUNER ASSEMBLY

SET 1093 FOLDER 1

ADMIRAL CHASSIS  
T3K4-1A/-1B



PHOTOFACT® Folder

with CIRCUITRACE™

For Supplier Address See PHOTOFACT Index

ADMIRAL CHASSIS  
T3K4-1A/-1B



MODEL 19P280CF

ADMIRAL	Covering Runs
MODEL	10, 11
	CHASSIS
19P280CF	T3K4-1A
19P289CF	T3K4-1A
19P297CF	T3K4-1B

### SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set. Check high-voltage regulation and adjust to correct value.  
Be sure shields and rear cover are in place and secure.

Beware of shock from high voltage or AC line. Discharge high voltage to HV cage only.

Use extreme care when handling picture tube. Do not bump, scratch, or exert undue strain.

CAUTION: One side of AC line connected to chassis. Use isolation transformer for servicing. Make certain isolation networks are in place and exposed metal is safe to touch before returning set to customer.

### SERVICING IN THE FIELD

#### CRT - IMPLSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

#### FUSE/FUSE DEVICE

A 5.5-ohm fusible resistor is used for low-voltage power supply protection.

#### VHF TUNER

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

#### HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horizontal hold coil. (See photo "Cabinet - Rear View" for location.)

#### WIDTH

The width may be varied by connecting the lead from R437 to various voltage points.

#### FOCUS

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

#### AGC

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

#### CENTERING

Centering is accomplished by proper adjustment of two magnetic rings located on the yoke rear cover. (See photo "Cabinet - Rear View" for location.)

REMEMBER TO ASK— "What else needs fixing?"

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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.

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DATE 4-70

SET 1093 FOLDER 1

ADMIRAL CHASSIS  
T3K4-1A/-1B

SET 1093 FOLDER 1



## RESISTANCE MEASUREMENTS

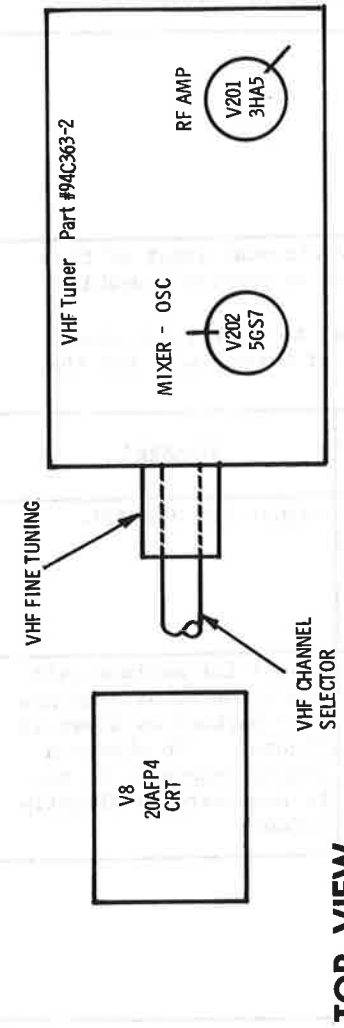
ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	TOP CAP
V1	8BM11	12Ω	550Ω †	550Ω †	0Ω	120Ω	0Ω	550Ω †	0Ω	550Ω †	33Ω	180K	15Ω	
V2	14BL11	3Ω	3500Ω †	26K †	25K	100K	0Ω	47K †	15Ω	850K	550Ω †	3900Ω *	7.5Ω	
V3	17BF11	30Ω	820Ω	16Ω	NC	470K	15K †	570K †	250K	220Ω	330Ω †	200Ω †	35Ω	
V4	23Z9	15Ω	1.5meg	800K	NC	322Ω †	NC	0Ω	1.1meg	330Ω †	8.2meg †	22K †	21Ω	
V5	8LT8	2200Ω	430Ω †	250K †	7.5Ω	10Ω	82K	642K	1.3meg	1.6meg				
V6	38HK7	30Ω	80Ω †	NC	2.4meg	6.6Ω †	NC	NC	0Ω	1meg	1meg	660Ω †	21Ω	
V7	1AY2	PINS 1 THRU 9 HAVE INFINITE RESISTANCE												164.6Ω †
V8	20AFP4	12Ω	1000Ω	320K	470K	NC	NC	200K	10Ω					
V201	3HA5	2meg	0Ω	0Ω	1Ω	2000Ω †	0Ω	0Ω						
V202	5G57	10K	11K †	0Ω	3Ω	1Ω	1700Ω †	22K †	0Ω	220K				
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	TOP CAP

\* READING DEPENDS ON POLARITY OF METER CONNECTIONS.

	READING DEPEND	NO CONNECTION
* NC		

† MEASURED FROM CATHODE OF CR501.  
‡ MEASURED FROM PIN 4 OF V6B.

† MEASURED FROM CATHODE OF C  
† MEASURED FROM PIN 4 OF V6B.

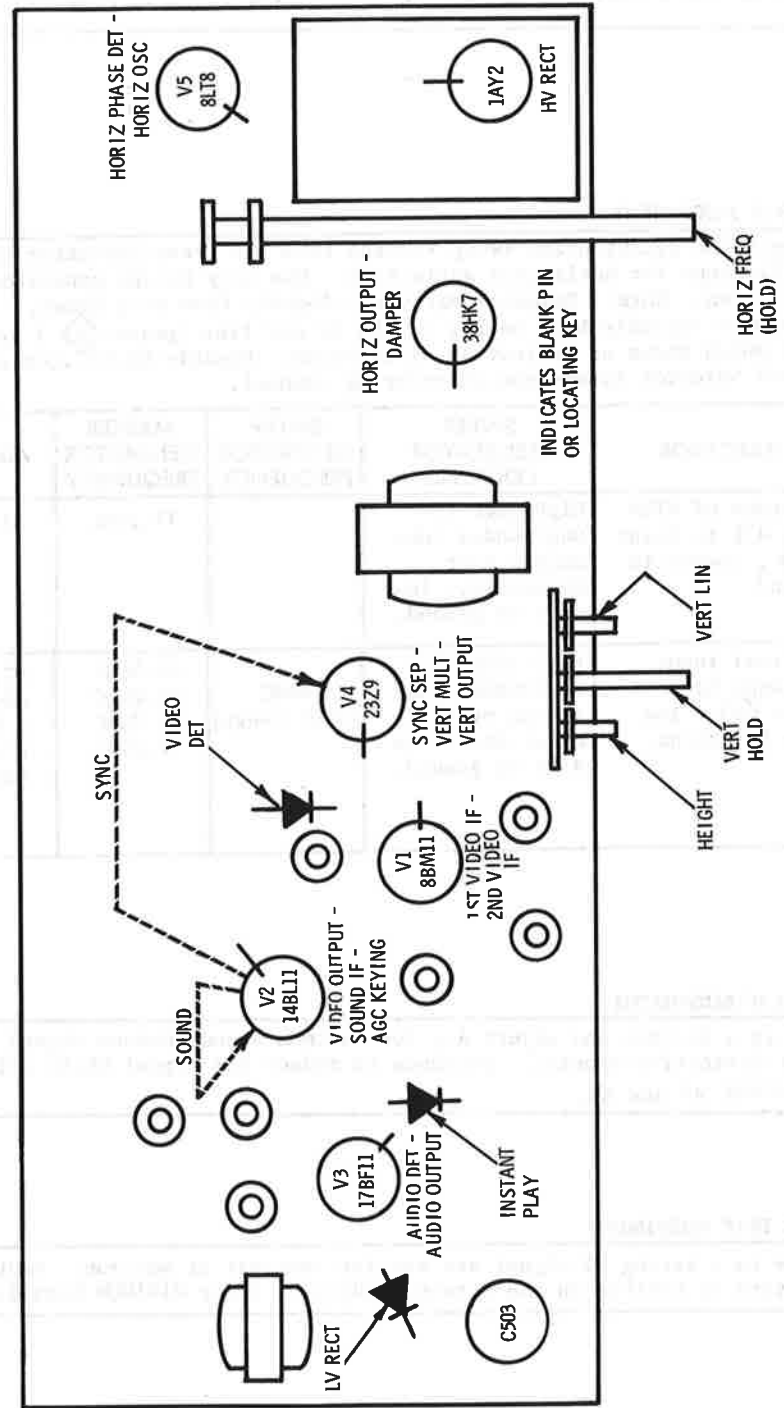


## TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptoms.

SWEEP	PICTURE or SOUND	SYNC
No raster, has sound V5, V6, V7, V8	No pic, no sound, no raster R501, CR501	No vert. sync V4
No vert. deflection V4	No pic, no sound, has raster V202, V1	No horiz. sync V5
Poor vert. lin. or foldover V4	No pic, no sound, has snow V201, V202	No vert. or horiz. sync V4
Poor horiz. lin. or foldover V5, V6	No pic, has sound, no raster V2, V5, V6, V7, V8	
Narrow picture CR501, V5, V6	No pic, has sound, has raster V2, CR301	
Vert. off freq. V4	Has pic, no sound V2, V3	
Horiz. off freq. V5	Overloaded picture V2	

This receiver employs a series filament circuit; an open filament in any tube will cause the set to be inoperative.



# ADMIRAL CHASSIS T3K4-1A/-1B

**FOLDER 1**



TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 117VAC. Allow a 20-minute warm-up period for the receiver and test equipment.

Suggested Alignment Tools:

	GENERAL CEMENT	WALSCO
A1 thru A9 .....	8606,8606L,8869 .....	2543,2544,2588
Mixer Plate Coil .....	9296,9297,9300 .....	2510,2546,2547

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 that shown.

Connect a variable bias supply to the IF AGC line (point A ) 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.

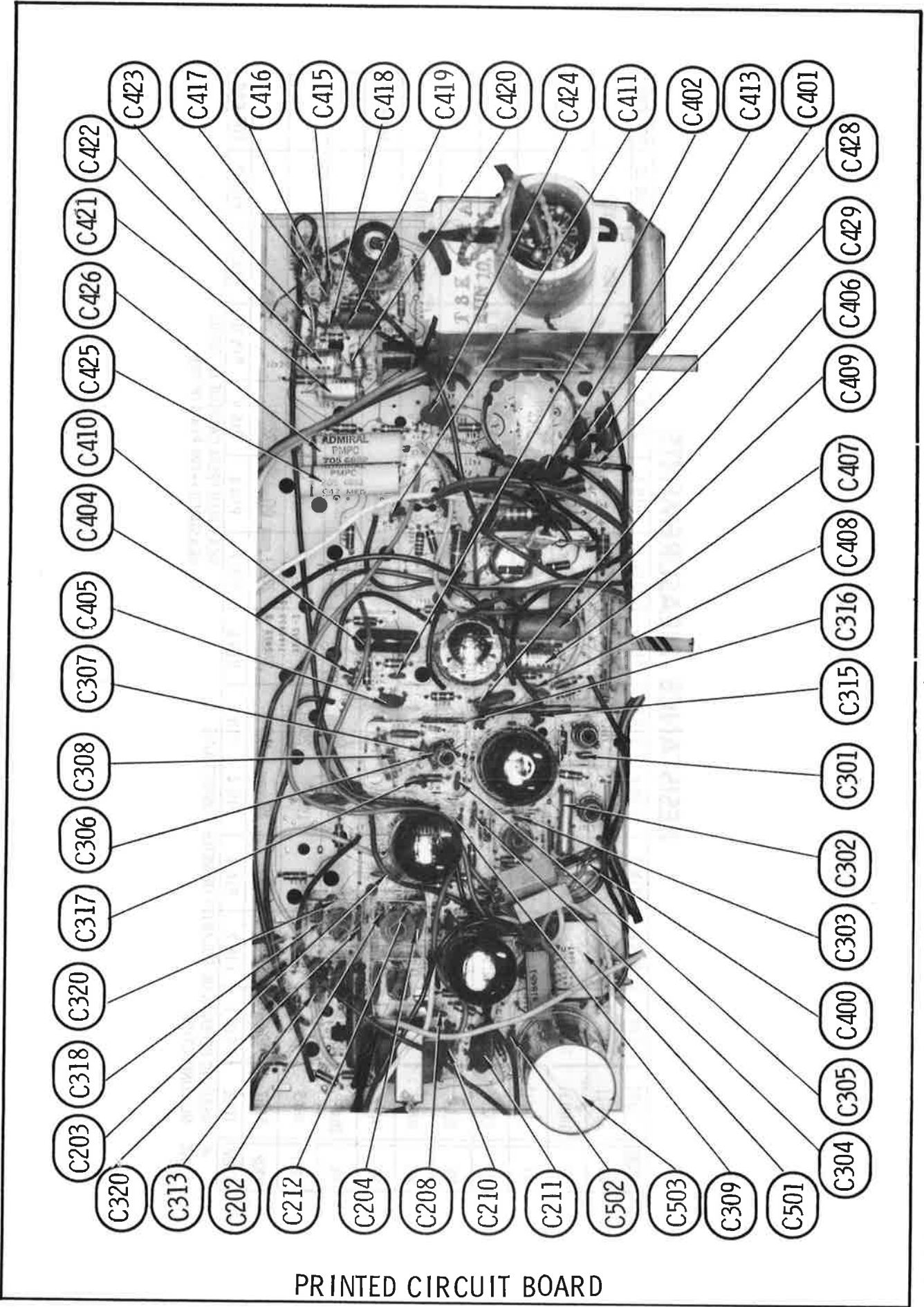
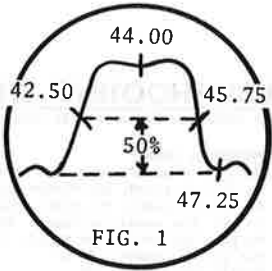
INDICATOR	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
DC probe of VTVM thru 47K to Point B , common to ground.	High side to ungrounded tube shield over Mixer-Osc., low side to ground.		47.25MC	A1	Adjust for MINIMUM .
Vertical input of scope to Point B , low side to ground.	High side to ungrounded tube shield over Mixer-Osc., low side to ground.	44MC (10MC Sweep)	42.50MC 44.00MC 45.75MC 47.25MC	A2,A3 A4,A5 & Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure. To obtain a proper response, it may be necessary to slightly retouch

SOUND IF ALIGNMENT

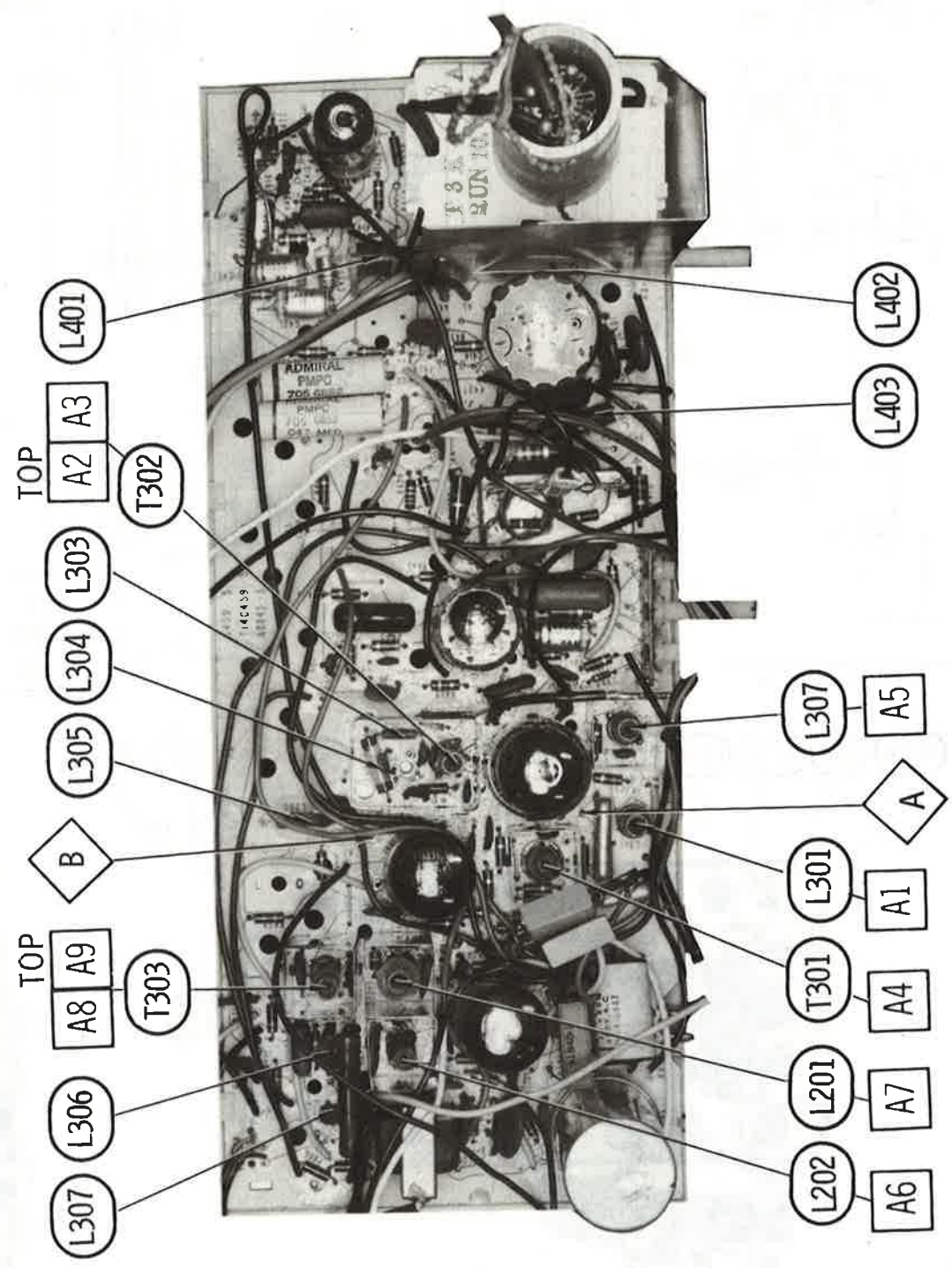
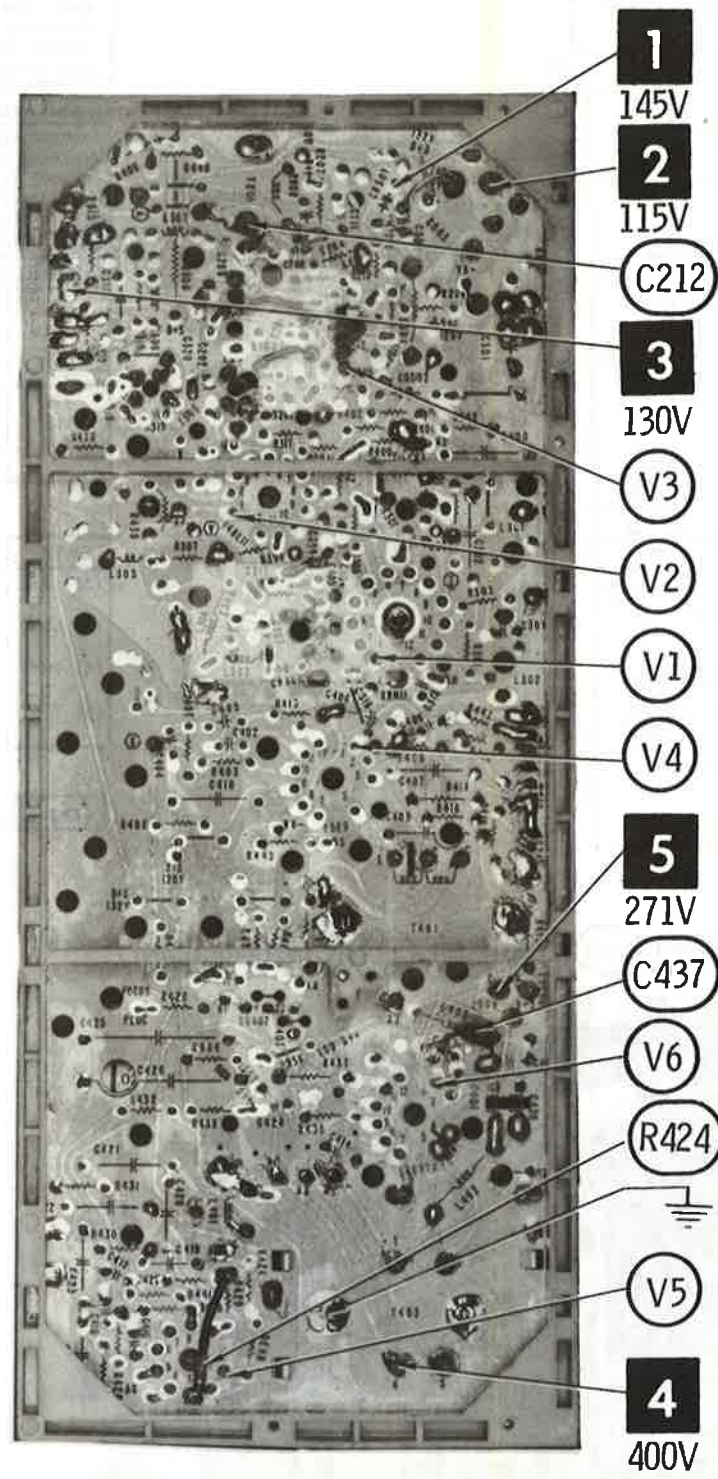
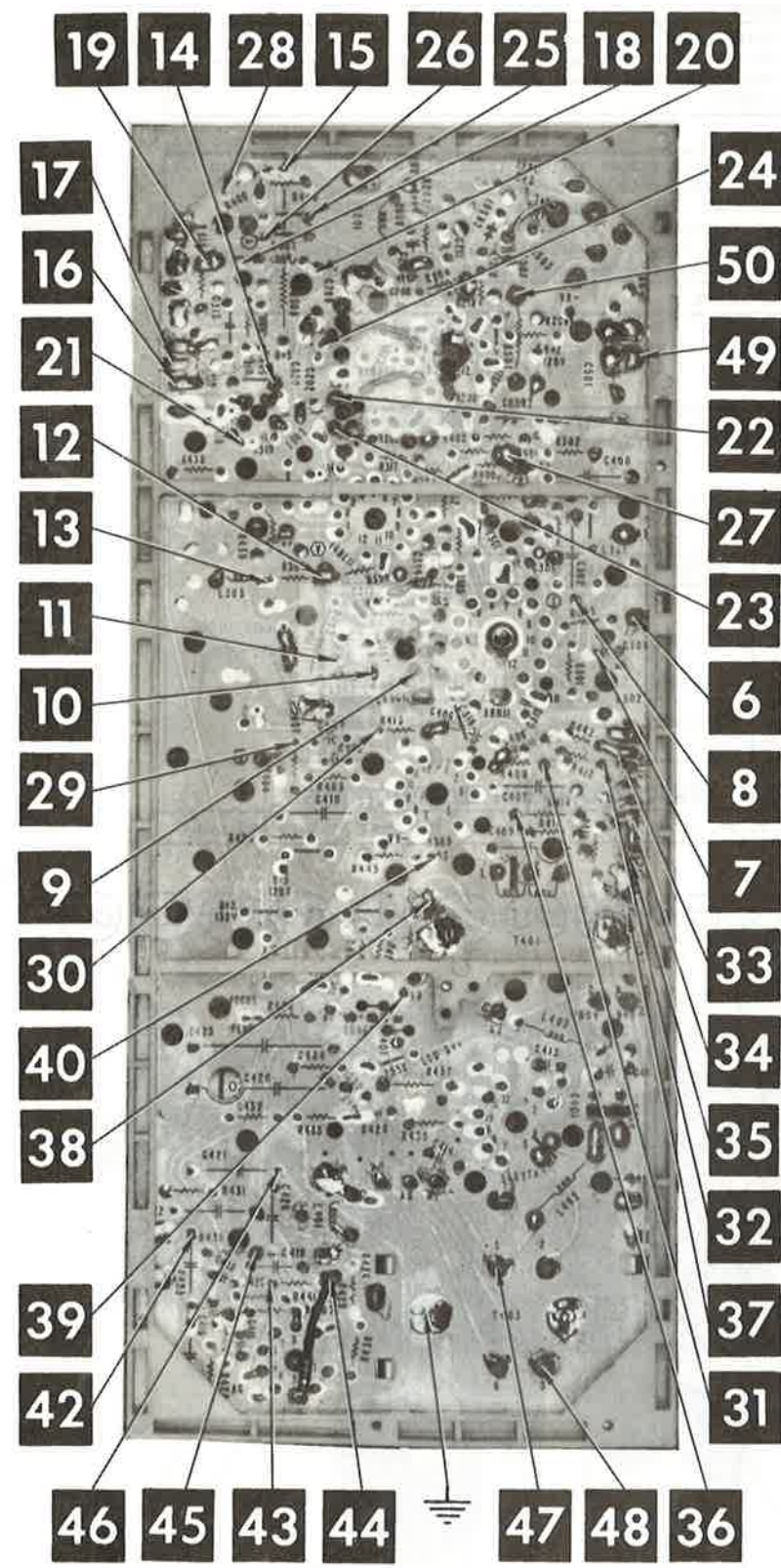
Tune in a station and adjust A 6 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting A7 and A8.

4.5MC TRAP ALIGNMENT

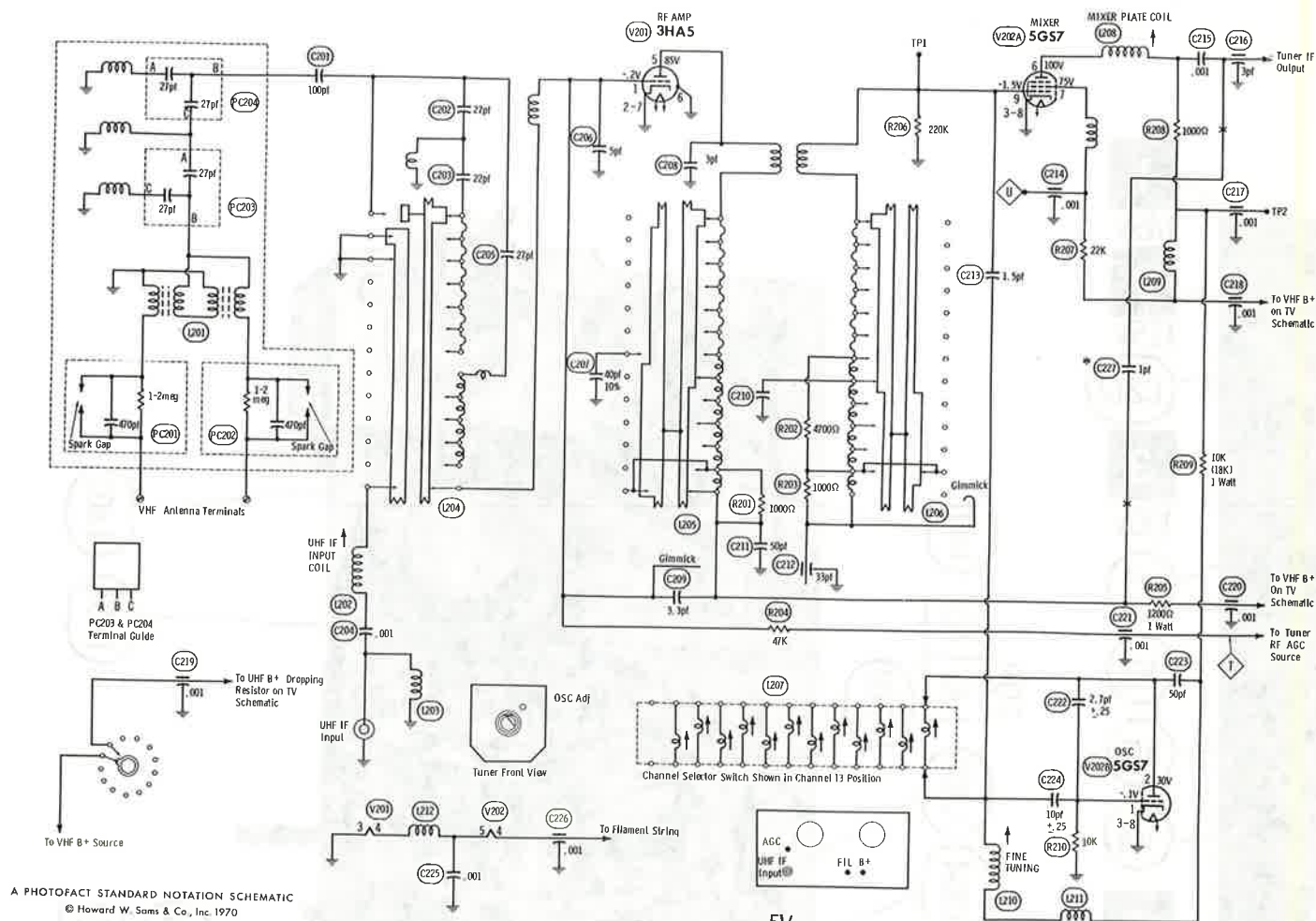
Tune in a strong TV signal and set the contrast at maximum. Adjust the fine tuning until a beat pattern is visible on the screen. Adjust A 9 for MINIMUM beat interference.











## VHF TUNER ALIGNMENT INSTRUCTIONS

### OSCILLATOR ADJUSTMENTS

Individual oscillator slugs are accessible through a hole in the front of the tuner. Set the fine tuning at mid-range. Starting with the highest active channel, adjust the appropriate slugs, in descending order, for the best picture and sound.

### RF AND MIXER ADJUSTMENTS

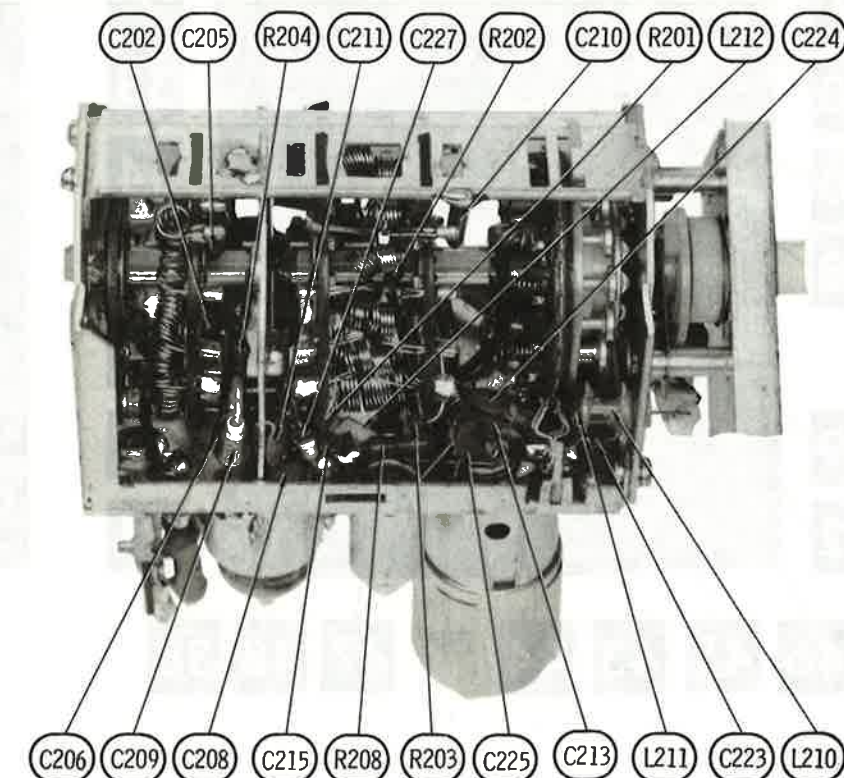
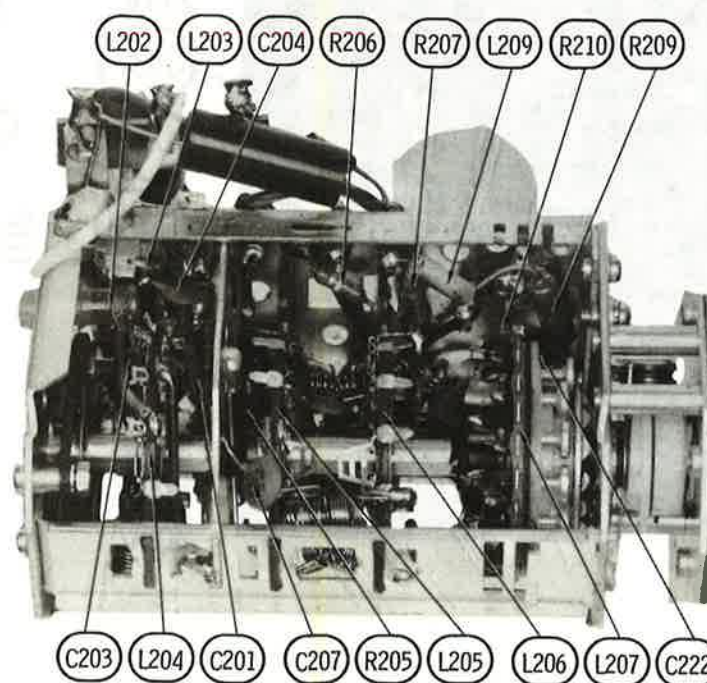
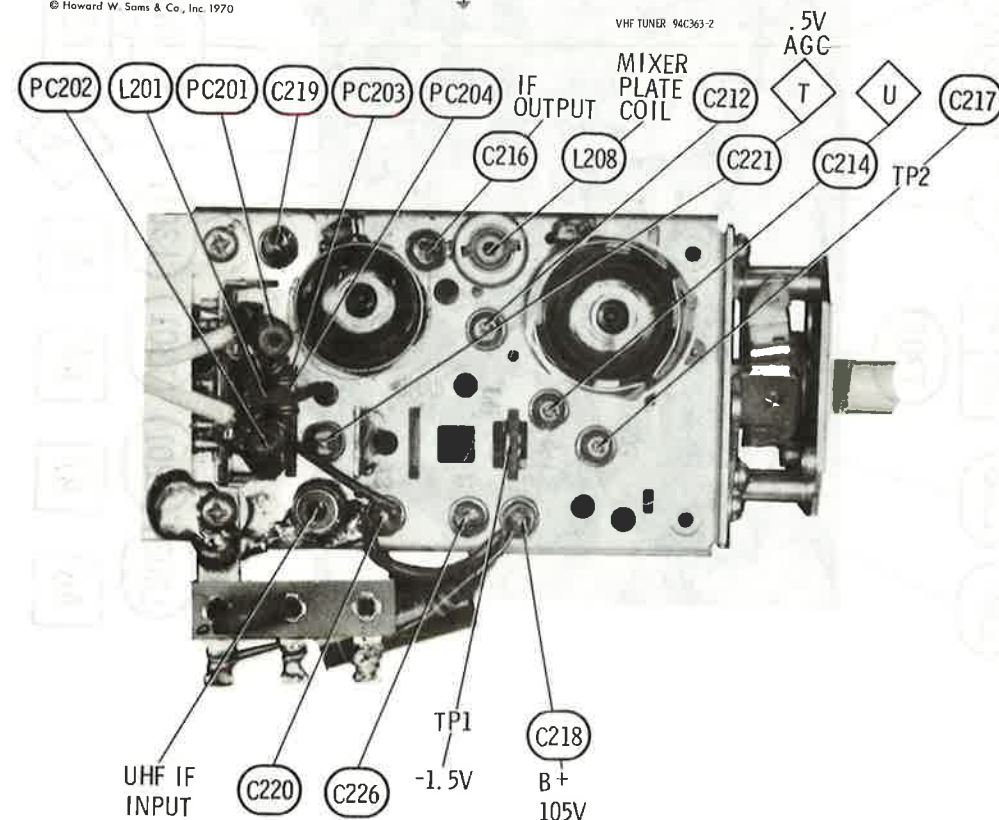
Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to RF AGC line at point T. Adjust bias to obtain response curve which shows no overloading.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical 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.
12 thru 2	Vertical input to Point T, low side to ground.	Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

GENERATOR FREQUENCY Numbers in ( ) indicate channel number						FIG. 201 SOUND VIDEO
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER	
(2) 57MC	55.25MC	(6) 85MC	83.25MC	(10) 195MC	193.25MC	
	59.75MC		87.75MC		197.75MC	
(3) 63MC	61.25MC	(7) 177MC	175.25MC	(11) 201MC	199.25MC	
	65.75MC		179.75MC		203.75MC	
(4) 69MC	67.25MC	(8) 183MC	181.25MC	(12) 207MC	205.25MC	
	71.75MC		185.75MC		209.75MC	
(5) 79MC	77.25MC	(9) 189MC	187.25MC	(13) 213MC	211.25MC	
	81.75MC		191.75MC		215.75MC	

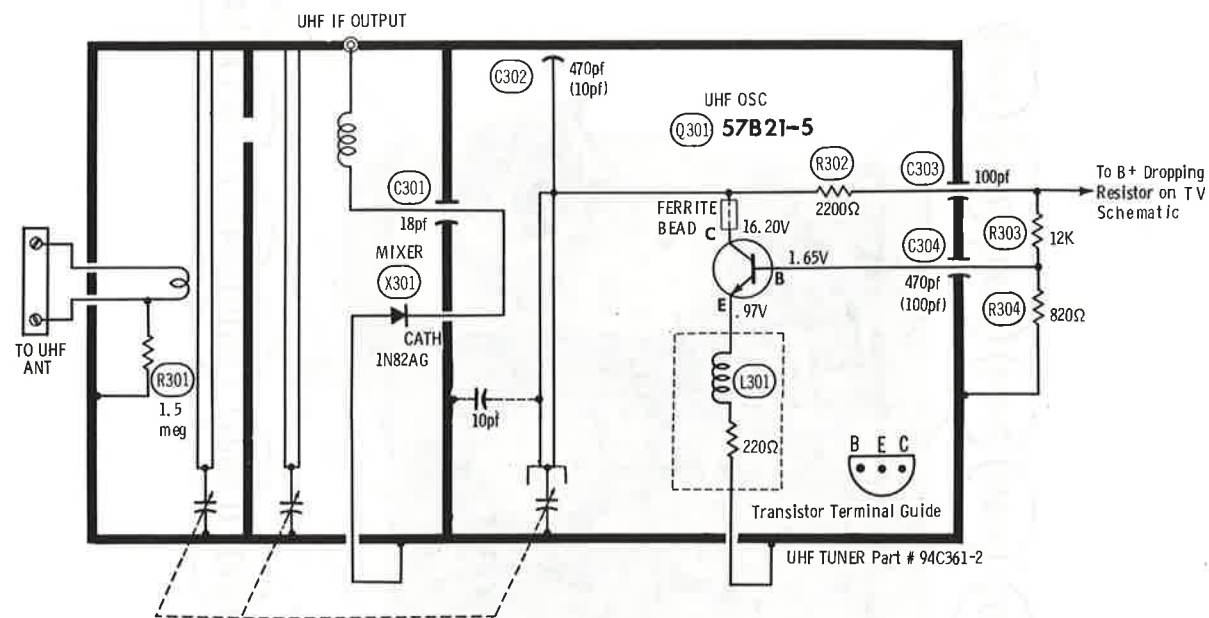
## UHF TUNER ALIGNMENT INSTRUCTIONS

Select a UHF station. Adjust UHF IF input coil for best picture and sound.

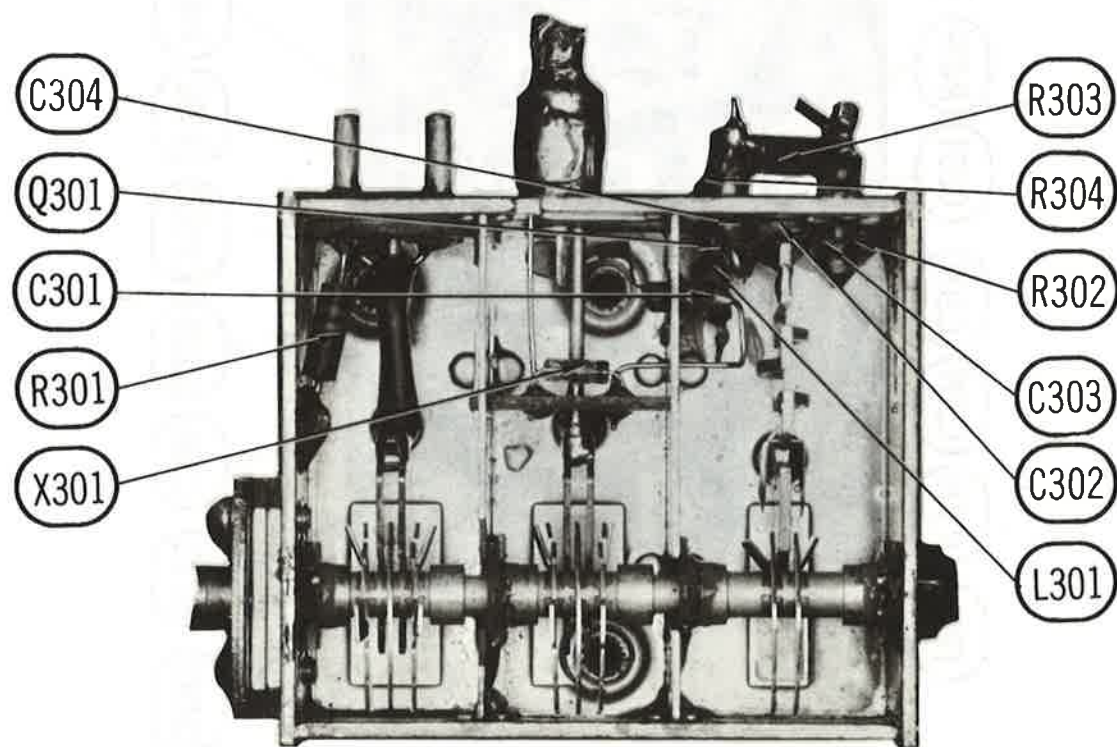


VHF TUNER

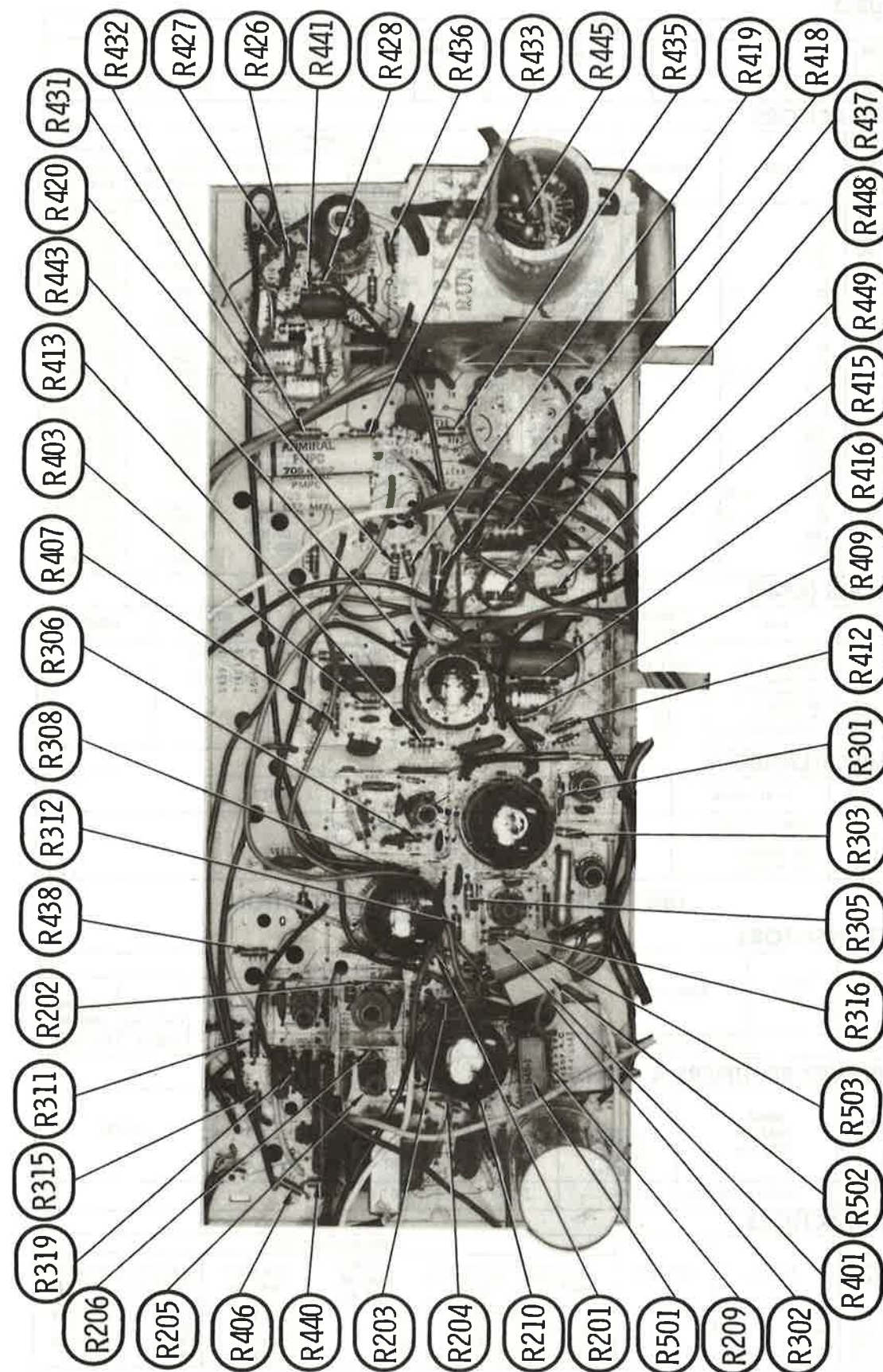




A PHOTOFAC STANDARD NOTATION SCHEMATIC  
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UHF TUNER



PRINTED CIRCUIT BOARD

ADMIRAL CHASSIS  
TK4-1A/-1B

FOLDER 1



VHF TUNER PARTS LIST AND DESCRIPTION

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

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE		TYPE			ITEM No.	USE		TYPE		
V201	RF Amp.		3HA5			V202	Mixer - Oscillator		5G57		

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	100	10%	GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C202	27		TCZ-27	TCZ-27	TCZ-27	CCT0-270	CN0427	10TCC-Q27
C203	22		NP0-D1 22	DTZ-22	CY601CG220K	CCT0-220	CN0422	10TCC-Q22
C204	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C205	27			TCZ-27		CCT0-270	CN0427	10TCC-Q27
C206	5		NP0-D1 5.0		NP05			10TCC-V50
C207	40		NP0-D1 39	TCZ-39		CCT0-390	CN0439	10TCC-Q39
C208	3		NP0-D1 3.0					10TCC-V30
C209	3.3		NP0-D1 3.3	DTZ-3R3	NP03P3		CN0533	10TCC-V33
C210	3		NP0-D1 3.0					10TCC-V30
C211	50	±.25	NP0-D1 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C212	33		NP0-D1 33	DTZ-33	NP033	CCT0-330	CN0433	10TCC-Q33
C213	1.5		NP0-D1 1.5	DTZ-1R5	NP01P5		CN0515	10TCC-V15
C214	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C215	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C216	3		NP0-D1 3.0					10TCC-V30
C217	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C218	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C219	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C220	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C221	.001	±.25	GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C222	2.7							10TCC-V27
C223	50		NP0-D1 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C224	10		NP0-D1 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C225	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C226	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C227	1		NP0-D1 1.0	TCZ-1	GP1000	CCD-102	CN0510	10TCC-V10

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
L201	Balun	(1)	{1} Part of complete antenna balun assembly #2094E1-100 {2} Includes complete wafer assembly.	L208	Mixer Plate	2094E1-102	
L202	UHF Input IF	2094E1-126		L209	RF Choke	2094E1-103	
L203	RF Choke			L210	Fine Tuning		
L204	Antenna Coils	(2)		L211	RF Choke		
L205	RF Coils	(2)		L212	Line Choke		
L206	Mixer Coils	(2)					
L207	Oscillator Coils	(2)					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
PC201	Antenna Isolation		1-2meg, 470pf, Spark Gap
PC202	Antenna Isolation		1-2meg, 470pf, Spark Gap
PC203	Trap Network		27pf, 27pf
PC204	Trap Network		27pf, 27pf

UHF TUNER PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q301		UHF Oscillator	57B21-5	GE-11	TR-22	HEP56	SK3019	ECG 108

POWER RECTIFIERS & SIGNAL DIODES

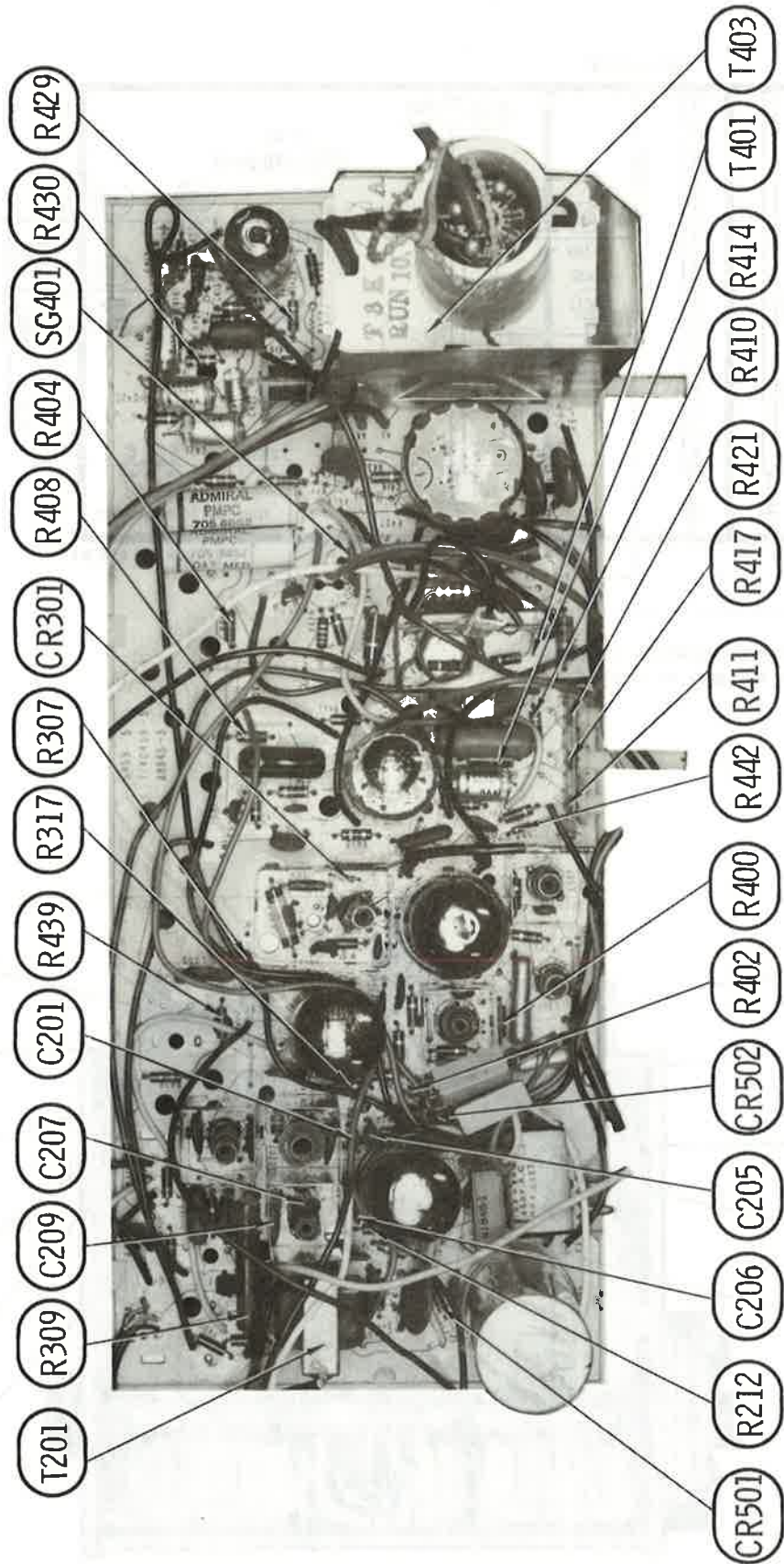
ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.		
X301	93A59-1 (1N82AG)	1N82A	1N82AG	ECG 112		

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.
C301	18		GPD X5F471K	TCZ-18	NP018	CCT0-180	CN0418	10TCC-Q18
C302	470		DD-471	DD-471	GP470	CCD-471	GP347	10TS-T47
C303	100		NP0-D1 100	DTZ-100	NP0100	CCT0-101	CN0310	10TCC-T10
C304	470		GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
L301	Emitter Choke		Wound on a 220-ohm Resistor.				



PRINTED CIRCUIT BOARD



(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.

**\*COMPONENT CONNECTION DATA**

[illegible]

† Remove Yoke Plug. ▲ Remove Green lead.  
† Add a lead and 4700Ω, 1W Resistor (in series) from Yoke Terminals #1 or #3 to Horizontal Output Transformer Terminal #5.

## TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	3700	3.2	79D124-3 (79C124-3)					

**SPEAKER**

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM 3.2 ohms	78C205-5	4A1	

## MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
	VHF Antenna	69C318-1	JFD Replacement TA406, Used in Models 19P280CF/289CF/297CF.
	UHF Antenna	69C304-2	JFD Replacement TA544, Used in Models 19P280CF/289CF/297CF.
	VHF Tuner	94D363-2	
		(94C363-2)	
	UHF Tuner	94D361-2	
		(94C361-2)	
SG401	Spark Gap	62A2-1	

## CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cabinet Front, Black Model: 19P280CF	799A2851	Knob - VHF Channel Selector	33C1023-49
Cabinet Front, White 19P289CF	799A2852	Knob - UHF Channel Selector	33C1023-42
Cabinet Front, Walnut 19P297CF	799A2853	Knob - Fine Tuning, VHF	33C1144-13
Cabinet Back, Black 19P280CF	799A2854	Knob - Fine Tuning, UHF	33C1144-14
Cabinet Back, White 19P289CF	799A2855	Knob - Preference, Brightness, Vert. Hold	20D63-43
Cabinet Back, Black 19P297CF	799A2856	Grille and Control Panel Assembly, Models: 19P280CF/297CF	799A2849
Handle 19P280CF/297CF	37C263-5	Grille and Control Panel Assembly, 19P289CF	799A2850
Handle 19P289CF	37C263-12		

(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.

## WIRING DATA

High Voltage Lead .....	Use BELDEN No.	8869 (17KV)
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
300-Ohm Tuner Input Lead .....	Use BELDEN No.	8225
300-Ohm Antenna Lead-in .....	Use BELDEN No.	8230 or 8275
Antenna Rotor Cable .....	Use BELDEN No.	8464 (Flat) or 8484 (Round) - 4 Conductor
		8485 (Round) - 5 Conductor
		8488 (Round) - 8 Conductor

## TUBES

AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V1	1st Video IF - 2nd Video IF	8BM11		V5	Horiz. Phase Detector -		
V2	Video Output - Sound IF -				Horiz. Oscillator	8LT8	
	AGC Keying	14BL11		V6	Horiz. Output - Damper	38HK7	
V3	Audio Detector - Audio Output	17BF11		V7	HV Rectifier	1AY2	
V4	Sync Separator - Vert. Mult.-						
	Vert. Output	23Z9					

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V8	20AFP4				

## POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
CR301	93B25-3	1N60	1N60	ECG 109		
CR501	93B52-1	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK3030 or SK3031	
CR502	93B52-1	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK3030 or SK3031	

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C503A B C	250 165V 150 150V 200 150V	67C30-11	PWH3-83-98.5		CC0129.7A	XC4-11.9		PCL-3454.8



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

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	220		GPD X5F221K	DD-221	GP220	CCD-221	GP322	10TS-T22
C202	3		NPO-DI 3.0					10TCC-V30
C203	47	NPO	NPO-DI 47	DTZ-47	CX601CG470K	CCT0-470	CN0447	10TCC-Q47
C204	82	NPO	DT	DTZ-82			CN0482	10TCC-Q82
C205	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C206	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C207	18	N220/500V 5%				*		10TCR0018
C208	.0012		GPD X5F122K	DD-122	JBS601YP122K	CCD-122	GP212	10TS-D12
C209	.05	50V	TTP-05	CK-503	MGPO5	CCD-503	TA150	TGL-S50
C210	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C211	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C212	5.6							10TCC-V56
C213	470	N750 10%		TCN-470		CCTN-471		10TCU-T470
C301	10	NPO 10%	NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C302	.22	200V	V1612P22		DMF2P22	2DP-4-224	PVC2022	2PS-P22
C303	560		GPD X5F561K	DD-561	GP560	CCD-561	GP356	10TS-T56
C304	.0015		GPD X5F152K	DD-152		CCD-152	GP215	10TS-D15
C305	470		GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47
C306	4.7	NPO	NPO-DI 4.7	DTZ-4R7			CN0547	10TCC-V47
C307	6.8	NPO	NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C308	6.8	NPO	NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C309	680		GPD X5F681K	DD-681	JBY601YP681K	CCD-681	GP368	10TS-T68
C313	.1	200V	DBE2P1		DPMS2P1	2DP-3-104	PVC201	2PS-P10
C315	820		GPD X5F821K	DD-821	GP820	CCD-821	GP382	10TS-T82
C316	820		GPD X5F821K	DD-821	GP820	CCD-821	GP382	10TS-T82
C317	820		GPD X5F821K	DD-821	GP820	CCD-821	GP382	10TS-T82
C318	47	5%		DTZ-47			CN0447	10TCC-Q47
C319	4.7	10%	NPO-DI 4.7	DTZ-4R7	NP04P7		CN0547	10TCC-V47
C320	47	5%		DTZ-47			CN0447	10TCC-Q47
C400	.22	200V	V1612P22		DMF2P22	2DP-4-224	PVC2022	2PS-P22
C401	.39	N1500/5KV 10%						
C402	390	10%	GPD X5F391K	DD-391		CCD-391	GP339	10TS-T39
C404	330	10%	GPD X5F331K	DD-331	GP330	CCD-331	GP333	10TS-T33
C405	.0012	10%	GPD X5F122K	DD-122	JBS601YP122K	CCD-122	GP212	10TS-D12
C406	.01	600V 10%	DBE6S1		DMF6S1	6DP-2-103	PVC611	6PS-S10
C407	.0068	500V 10%		CPR-6800J	CD30F682J500	DM-30-682J	SK268	
C408	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C409	.039	1KV 10%	BE10D39					
C410	.039	600V 10%	DBE6D39		DPMS6D39	6DP-1-392	PVC6239	6PS-D39
C411	470	10%	GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47
C413	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C414	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C415	270	10%	GPD X5F271K	DD-271		CCD-271	GP327	10TS-T27
C416	330	10%	GPD X5F331K	DD-331	GP330	CCD-331	GP333	10TS-T33
C417	.0012	500V 5%		CPR-1200J	CD19F122J500	DM-19-122J	SK212	424ME1201J501
C418	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C419	.1	200V	DBE2P1		DPMS2P1	2DP-3-104	PVC201	2PS-P10
C420	560	500V 10%		CPR-560J	CD19F561J500	DM-16-561J	SK356	424ME5600J501
C421	.0033	500V 10%	GPD X5R332K	DD-332	GP3300	CCD-332	JF233	10TS-D33
C422	.0068	500V 10%		CPR-6800J	CD30F682J500	DM-30-682J	SK268	
C423	.0039	500V 5%		CPR-3900J	CD19F392J500	DM-19-392J	SK239	424ME3901J501
C424	.0047			DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47
C425	.047	600V	DBE6S47		DMF6S47	6DP-3-473	PVC6147	6PS-S47
C426	.027	1KV	BE10S27					
C428	82	N1500/4KV 10%						
C429	560	N1500/1KV/10%						
C430	470	1.4KV						
C431	.1	200V		CI-471			UAC-347	
C501	.22	450VAC	DBE2P1		DPMS2P1	2DP-3-104	PVC201	2PS-P10
C502	.001		DBE6P22		DPMS6P22	6DP-5-224	PVC6022	
C436	82	N750/3KV 10%	GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C437	.0015							
C501	.22	450VAC	DBE6P22		DPMS6P22	6DP-5-224	PVC6022	
C502	.001	1KV	GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10

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

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R208	Volume/Switch	1meg	75C1-176 (75D1-176)	F1-1meg, SN100, KR-2	A47-1meg-S, RN-3, SWE-20, TT-2 or [NP-1meg-S, NML-A-300, NWE-20, TT-2]	BU11, CF17, SS6, WF *	RU16L, SL37, SN875, US42 or [UA16L, SN875, US42]
R311	Contrast	30K, 5000 Stop	75C112-13	F1-25K (1) (2), SN100	B47-25K-S (1) (2) or [NP-25K-S (1, 2), NML-A-300]	B11-120 (1), TM4 (2) or [BU11, CF11 (1), SS6] *	RU253L (1) (2), SN875 or [UA253L (1) (2), SN875]
R313	Brightness	100K	75C111-13 (75D111-13)	F1-100K, SN100	B47-100K-S or [NP-100K-S, NML-A-300, TT-2]	B11-128, TM4 or [BU11, CF13, SS6]	PTA15L or [RU15L, SL37, SN875] or [UA15L, SN875]
R411	Height	3meg "A"	75C129-3(3) (4)				
R417	Vert. Hold	1.2meg "B"	(75B129-3)				
R421	Vert. Linearity	500K "C"					

- (1) Connect a 4700 ohm 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).  
(2) Use original nylon tab mount.  
(3) To establish section identification of side-by-side controls (controls viewed from shaft ends, terminals down): For 3-section controls, left-hand section is "A", middle section is "B", right-hand section is "C".  
For 2-section controls, left-hand section is "A", right-hand section is "B".  
(4) Includes R411, R417 and R421.  
"SNAPTROL"

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.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFRG. PART No.
R309	3900 4W		5W-SQ-3.9K	61C24-439
R501	5.5 Fusible			61C48-1

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFRG. PART No.
R502	330 5W	PW5-350	5W-SQ-330	61C20-66
R503	80 5W	PW5-75	5W-SQ-75	61C20-101

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L201A	Sound IF	72C301-4			
B	Phase Shift				
L202	Quadrature	72C132-82	20-1051	7127	TA291
L301	47.25MC Trap	72C308-8			
L302	IF Input	72C308-1		7537	TA292 *
L303	RF Choke (5.6uh)	73C53-243	19-1008	74F566AP	T820
L304	RF Choke (28uh)	73C31-3		72F275AP	T980
L305	Video Peaking (470uh)	73D55-30		6138	T352
L306	Video Peaking (470uh)	73D55-30		6138	T352
L307	Video Peaking (120uh)	73D55-26	19-3125	72F124AP	T342
L402	RF Choke	73C31-11	19-1001	74F186AP	T810
L403	RF Choke (28 turns)	73C37-17			
T301	1st IF Video	72C308-2	17-3414 *		TA258 *
T302	2nd IF Video	72C310-1			
T303	Sound Take-off - 4.5MC Trap	72C185-7			

\* Remove unused terminal.

COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFRG. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	WORKMAN PART No.
L401	Horiz. Osc. (Hold)	94D17-19 (3094D17-19)					

TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MFRG. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T401	Vert. Output	79D139-2 (79C139-2)					(1) Use original HV rectifier plate cap connector.
T402	Yoke (Horiz. 26mh) 114" (Vert. 14.4mh)	750C1089-6 (700C1089-6)	MDF-142	DY-76AT	Y-88	YT-102-2	
T403	Yoke Clamp Horiz. Output	18A220-1 79D138-4		HO-405 (1)			