

CABINET-REAR VIEW

SERVICING IN THE FIELD

CRT IMPLOSION PROTECTION AND CLEANING

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

FUSE DEVICES

A 1.5-amp fuse is used for AC line protection. (See photo, Cabinet-Rear View.)

VHF TUNER

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

UHF TUNER

The UHF tuner employs a detent mechanism for channel selection. Fine tuning is adjusted by rotating the fine tuning knob.

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the Horiz Hold Coil. (See photo, Cabinet-Rear View.)

AGC

The AGC may be varied by an AGC Delay control

CENTERING

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

SET 1573 FOLDER 1

ADMIRAL CHASSIS
T2L6-1A/-2A, T3L6-1A/-2A

PHOTOFACT® Folder

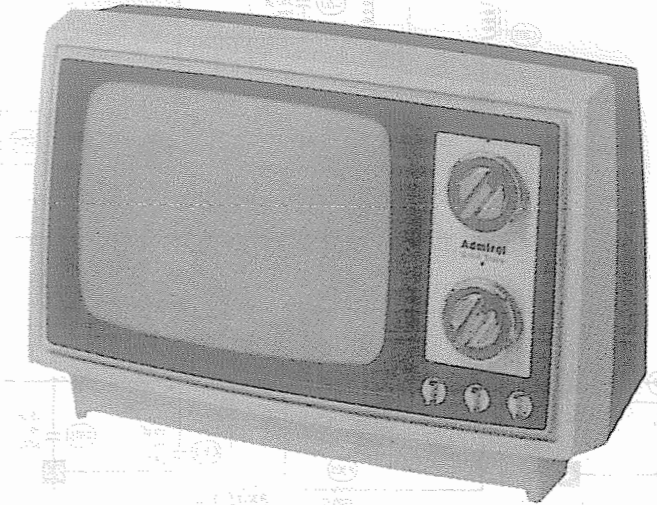
with CIRCUITRACE

For Supplier Address See PHOTOFACT Index

ADMIRAL CHASSIS
T2L6-1A/-2A, T3L6-1A/-2A

MODEL
9B618
9B618M
9B622
9B622M
9B638P
9B638PM
12B618
12B618M
12B627
12B627M
12B632
12B632M
12B648P
12B648PM
12B666
12B666M

CHASSIS
T2L6-1A
T2L6-2A
T2L6-1A
T2L6-2A
T2L6-1A
T2L6-2A
T3L6-1A
T3L6-2A
T3L6-1A
T3L6-2A
T3L6-1A
T3L6-2A
T3L6-1A
T3L6-2A
T3L6-1A
T3L6-2A



MODEL 9B618 (T2L6-1A)

SAFETY PRECAUTIONS

See page 5

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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. 6PC1552R 10 9 8 7 6 5 4 3

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DATE 6-76

SET 1573 FOLDER 1

ADMIRAL CHASSIS
T2L6-1A/-2A, T3L6-1A/-2A

SET 1573 FOLDER 1

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove six screws holding cabinet. While removing cabinet back it is necessary to disconnect antenna leads from inside back.

Note: Most components can now be serviced without chassis removal.

Remove all knobs and lay set face down on a soft protective surface.

Disconnect CRT socket, HV anode lead, speaker wire and ground wire. Loosen and remove deflection yoke. Remove four screws holding tuner assembly and one screw holding printed circuit board. Lift printed circuit, tuner assembly and deflection yoke from cabinet front.

CRT REMOVAL

Follow "Chassis Removal" procedure. Loosen bolt holding CRT retaining wire. Remove four screws holding retaining wire brackets and remove wire and brackets. Lift CRT from cabinet. Do not lift CRT by the neck.

CENTERING

HORIZ
HOLD

CONTRAST

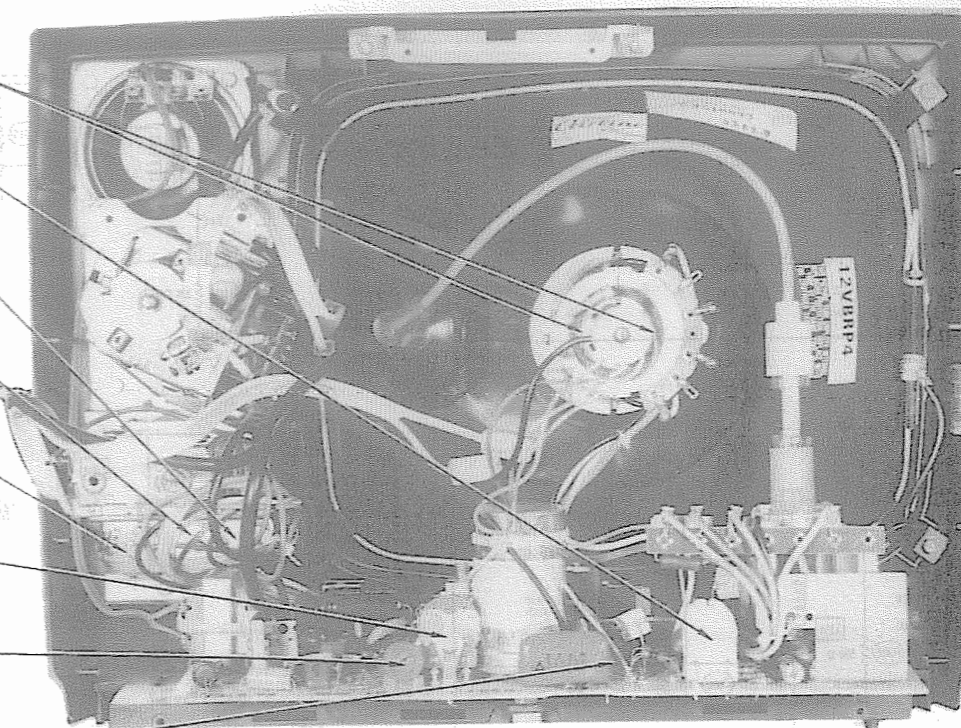
BRIGHTNESS

VOLUME

VERT HOLD

VERT SIZE

AC FUSE



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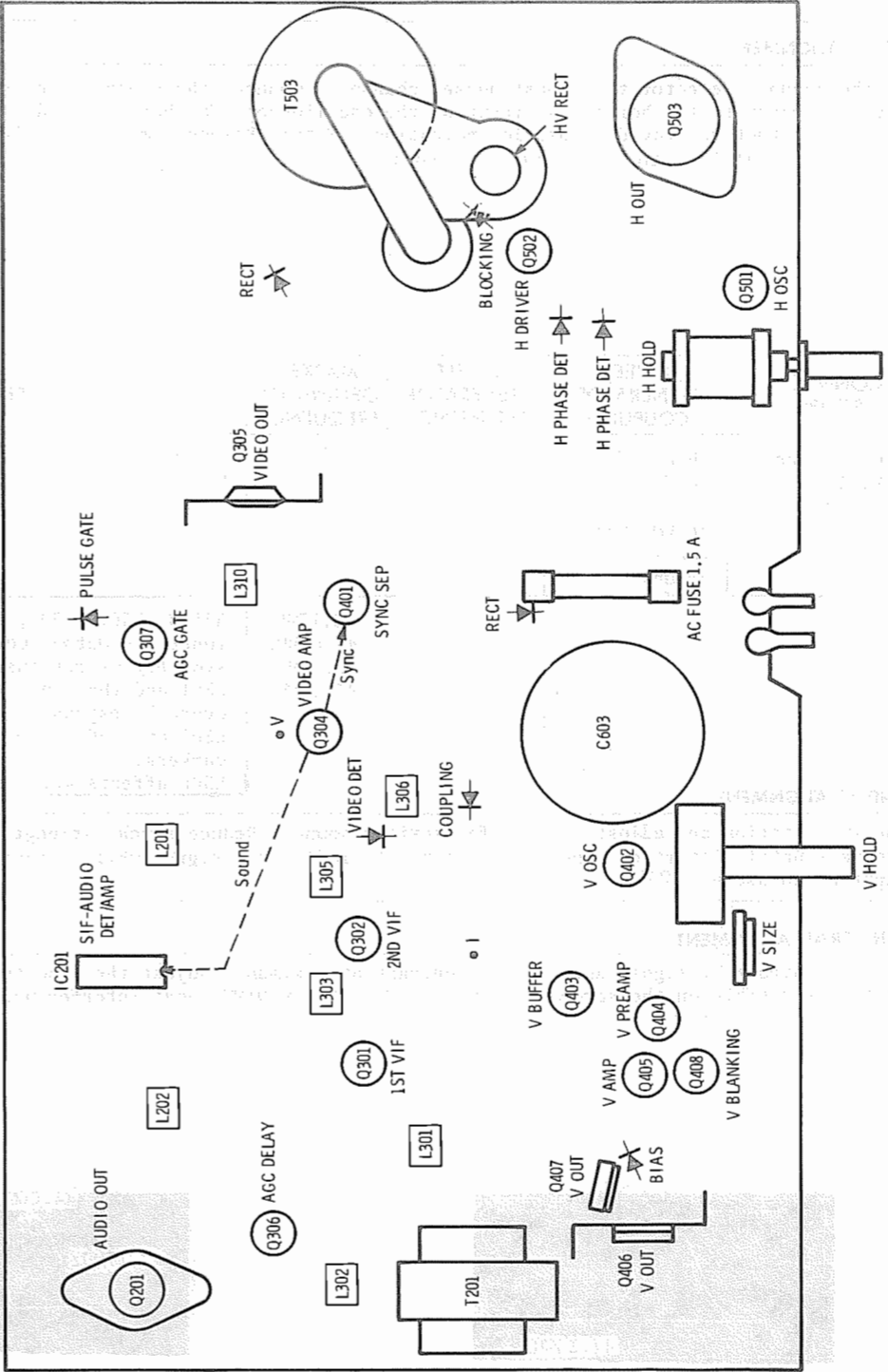
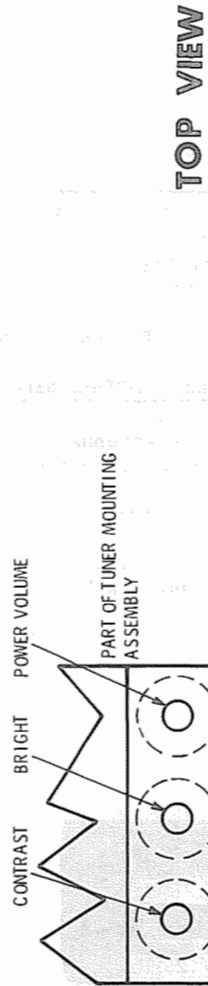
RESISTANCE MEASUREMENTS

MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS														
ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14
V301	0	180K	FIL	FIL	0	150K	0							
1C201	12K	4400	4000	111F	4400	111F	0	50	82K	111F	4000	2500	4000	1000
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q201	110	111F	50K (1)		Q307	270	1200	47K		Q406	111F (2)	2700	750	
Q301	330	4000	1500		Q401	680	330K	25K		Q407	111F (2)	33K	3.3	
Q302	560	2000	1100		Q402	0	80K	2M		Q408	340	22K	750	
Q304	220	3700 (2)	2000		Q403	0	43K	390K		Q501	175	110K	50K (1)	
Q305	240	230	55K (1)		Q404	0	390K	100K		Q502	50K (1)	50K (1)	111F (2)	
Q306	600	1200	5600		Q405	0	100K	33K		Q503	0	2.8	50K (1)	

(1) This reading will vary depending upon the condition of the electrolytic in the circuit.
(2) Reading depends upon polarity of meter connections.

TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptom.	
SWEEP No raster, has sound: HV Rect, CRT No vert deflection: Vert Osc/Buffer/Driver/Output Poor vert lin or foldover: Vert Osc/Buffer/Driver/Output Poor horiz lin or foldover: Horiz Driver/Output Narrow picture: LV Rect, Horiz Driver/Output Vert off freq: Vert Osc/Buffer Horiz off freq: Horiz Osc/Phase Det	PICTURE or SOUND No pic, no sound, no raster: Fuse, LV Rect, Horiz Osc/Driver/Output No pic, no sound, has raster: Tuner AGC, Video IFs/ Det/Amp No pic, no sound, has snow: Tuner, AGC, 1st Video IF No pic, has sound, no raster: Video Output, Blanking, CRT No pic, has sound, has raster: Video Det/Amp/ Output, CRT Has pic, no sound: Sound Det, Audio Amp/Output Overloaded picture: AGC, Video Det
SYNC No vert sync: Sync Sep, Vert Osc No horiz sync: Sync Seps Horiz Phase Det/Osc No vert/horiz sync: Sync Sep	



PLACEMENT CHART

ADMIRAL CHASSIS
T2L6-1A/-2A, T3L6-1A/-2A

FOLDER 1

SAFETY PRECAUTIONS

IMPORTANT SERVICE NOTES

Operation of receiver outside of cabinet or with back removed involves a shock hazard. Work on these models should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.

Exercise care when servicing this chassis with power applied. Many B plus and high voltage RF terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis escutcheon, picture tube dag and tuner cluster when operating chassis.

These receivers have a "polarized" AC line cord and interlock. The AC plug is designed to fit into standard AC outlets in one direction only. The wide blade connects to the "ground side" and the narrow blade connects to the "hot side" of the AC line. This assures that the TV receiver is properly grounded to the house wiring. If an extension cord must be used, make sure it is of the "polarized" type.

Since the chassis of these receivers are connected to one side of the AC supply during operation, service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

When it is necessary to make measurements or tests with AC power applied to the receiver chassis, an Isolation Transformer must be used as a safety precaution and to prevent possible damage to transistors. The Isolation Transformer should be connected between the TV line cord plug and the AC power outlet.

Certain HV failures can increase X-ray radiation. Receivers should not be operated with HV levels exceeding the specified rating for their chassis type. The maximum operating HV specified for the chassis used in these receivers is 12.5KV \pm .5KV at zero beam current with a line voltage of 120V AC. Higher voltage may also increase possibility of failure in HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the receiver that could cause a rise in high voltage, or operating supply voltages. Refer to the Parts List and use ONLY exact replacement parts; especially picture tubes, semiconductor devices, transformers, coils, fuses and circuit breakers.

To determine the presence of high voltage, use an accurate, high impedance, HV meter connected between second anode lead and metal chassis frame only. When servicing the High Voltage System, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord disconnected from chassis.)

The picture tube used in this receiver employs integral implosion protection. Replace with tube of the same type number for continued safety. Do not lift picture tube by the neck. Handle the picture tube only when wearing shatter-proof goggles and after discharging the high voltage completely. Keep others without shatter-proof goggles away.

When removing springs or spring mounting parts from tuner, tuner cluster or chassis, shatter-proof goggles must be worn. Keep others without shatter-proof goggles away.

Some leads in the receiver have been secured with wire ties that are required for safe operation and/or correct performance. If any ties are removed for servicing, it is mandatory that the ties are replaced to secure the leads as originally manufactured. Non-reusable ties should be replaced with approved Part No. 50A102-1. Do not replace with other types.

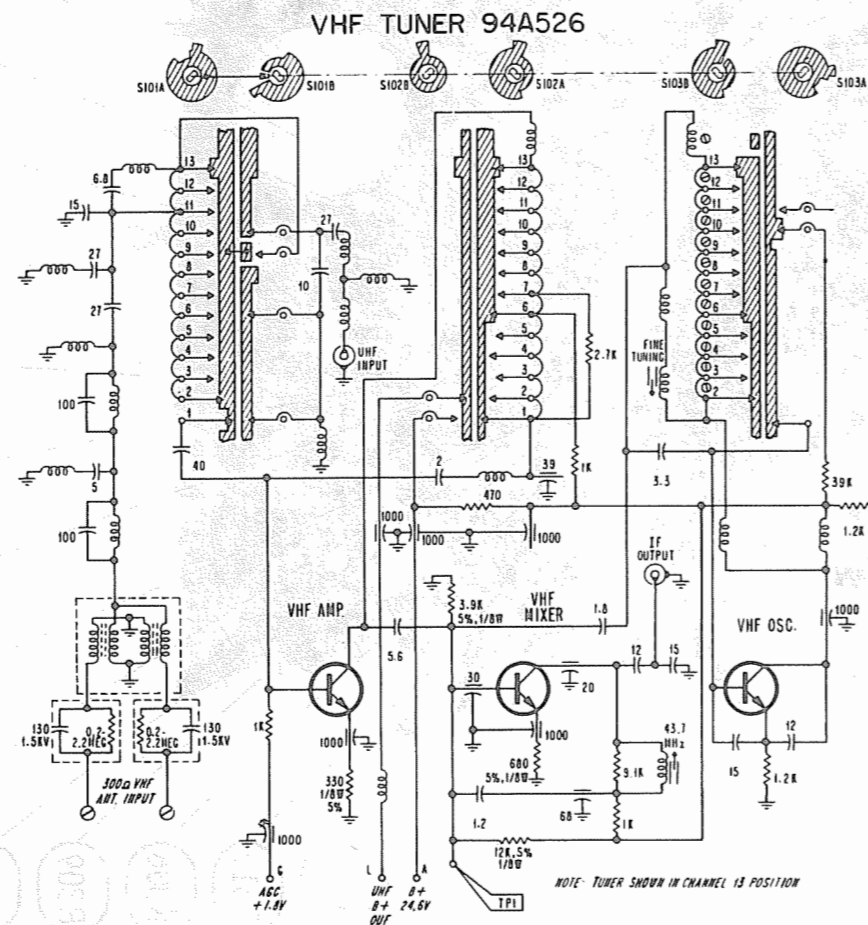
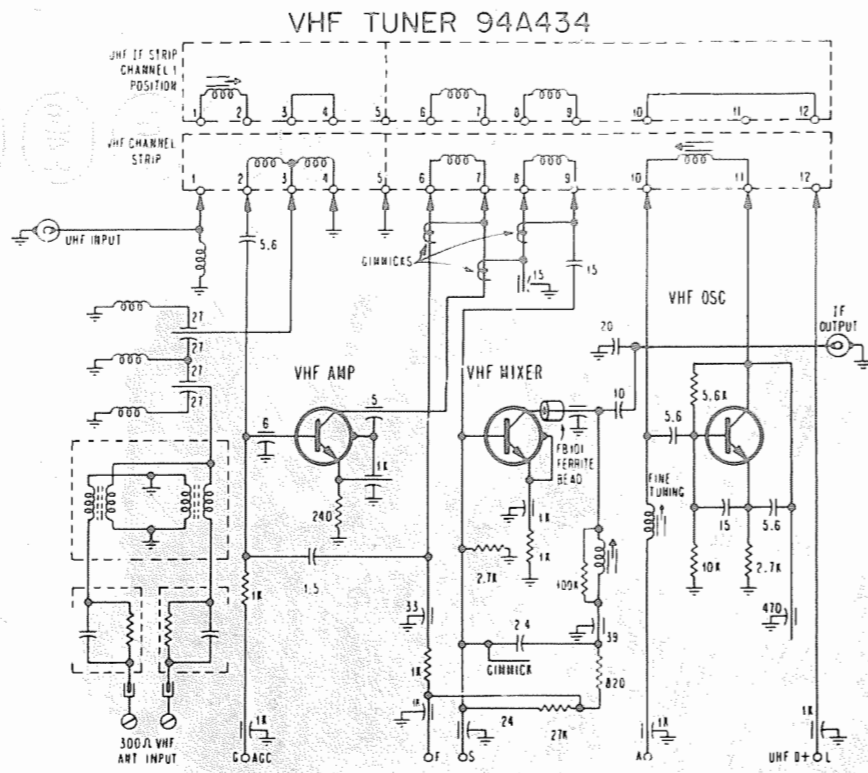
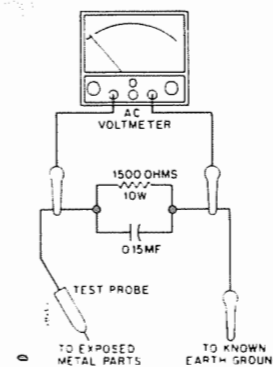
Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Replace all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

Plug the AC line cord into a polarized adaptor (Admiral Part No. 89A116-1). Plug the adaptor into a 120 Volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 ohm, 10 watt resistor paralleled by a .15mf capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher, sensitivity to measure the AC voltage drop across the resistor. (See Diagram). Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

Any reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the receiver to the owner.

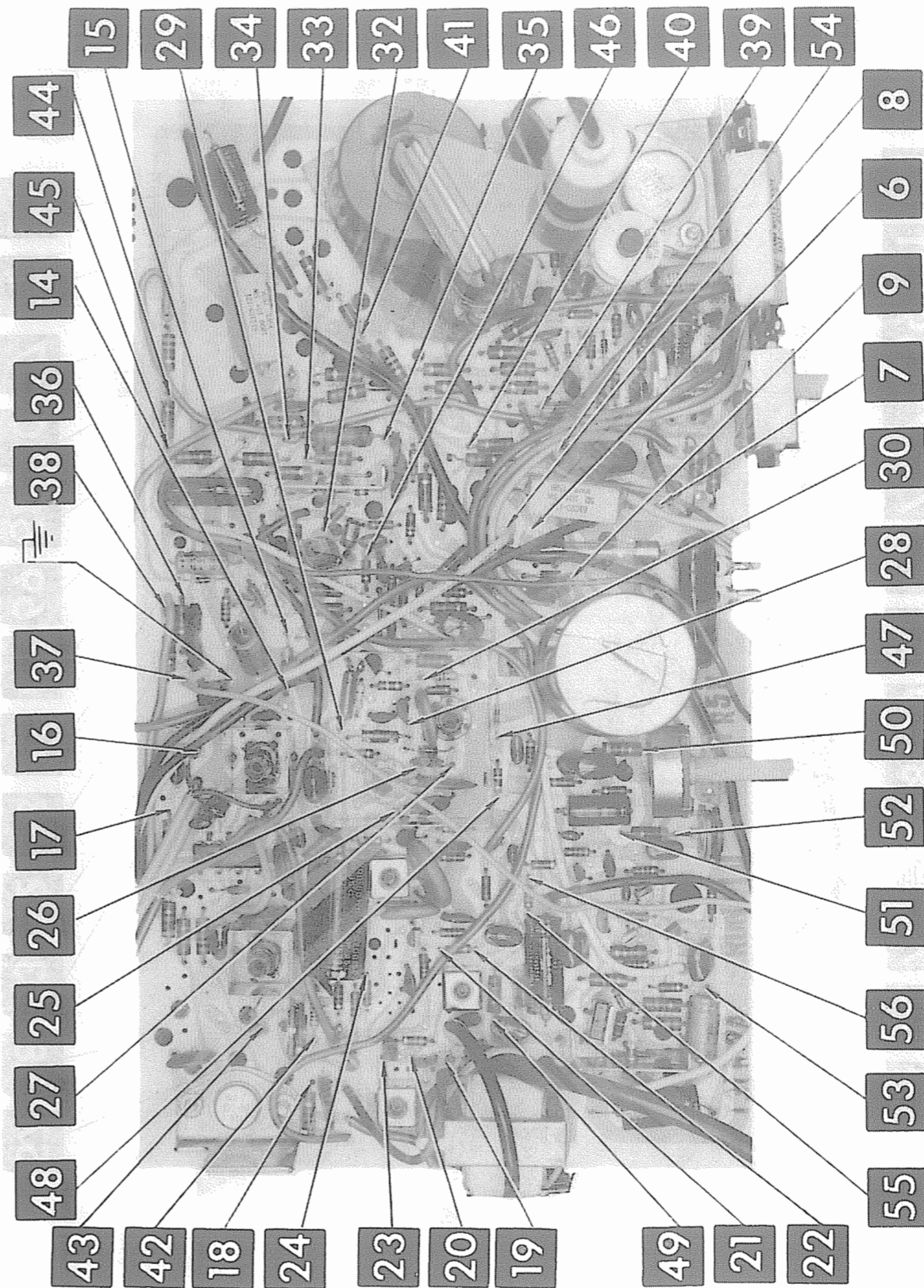
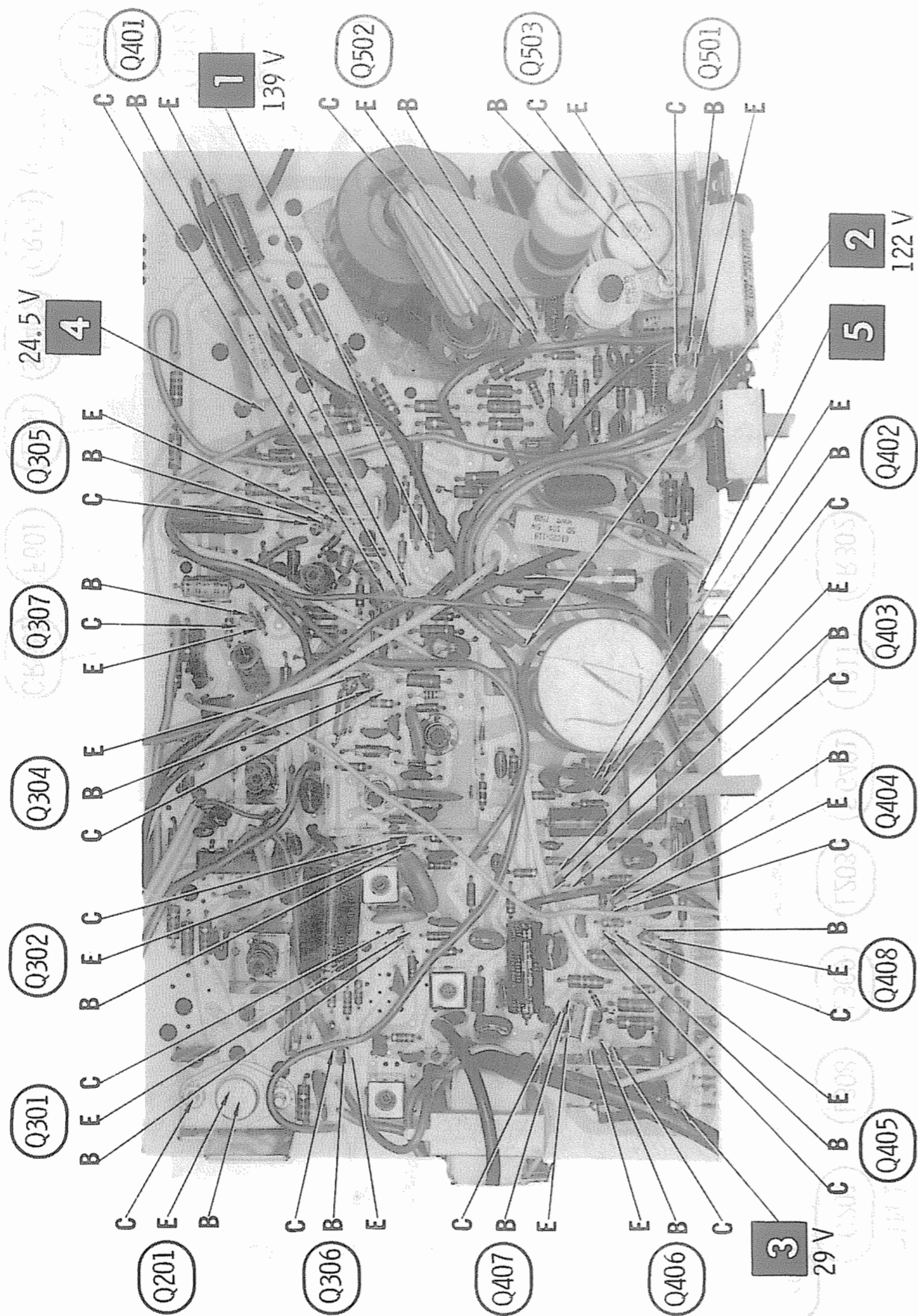
Reverse adaptor in the AC receptacle and repeat the above test.



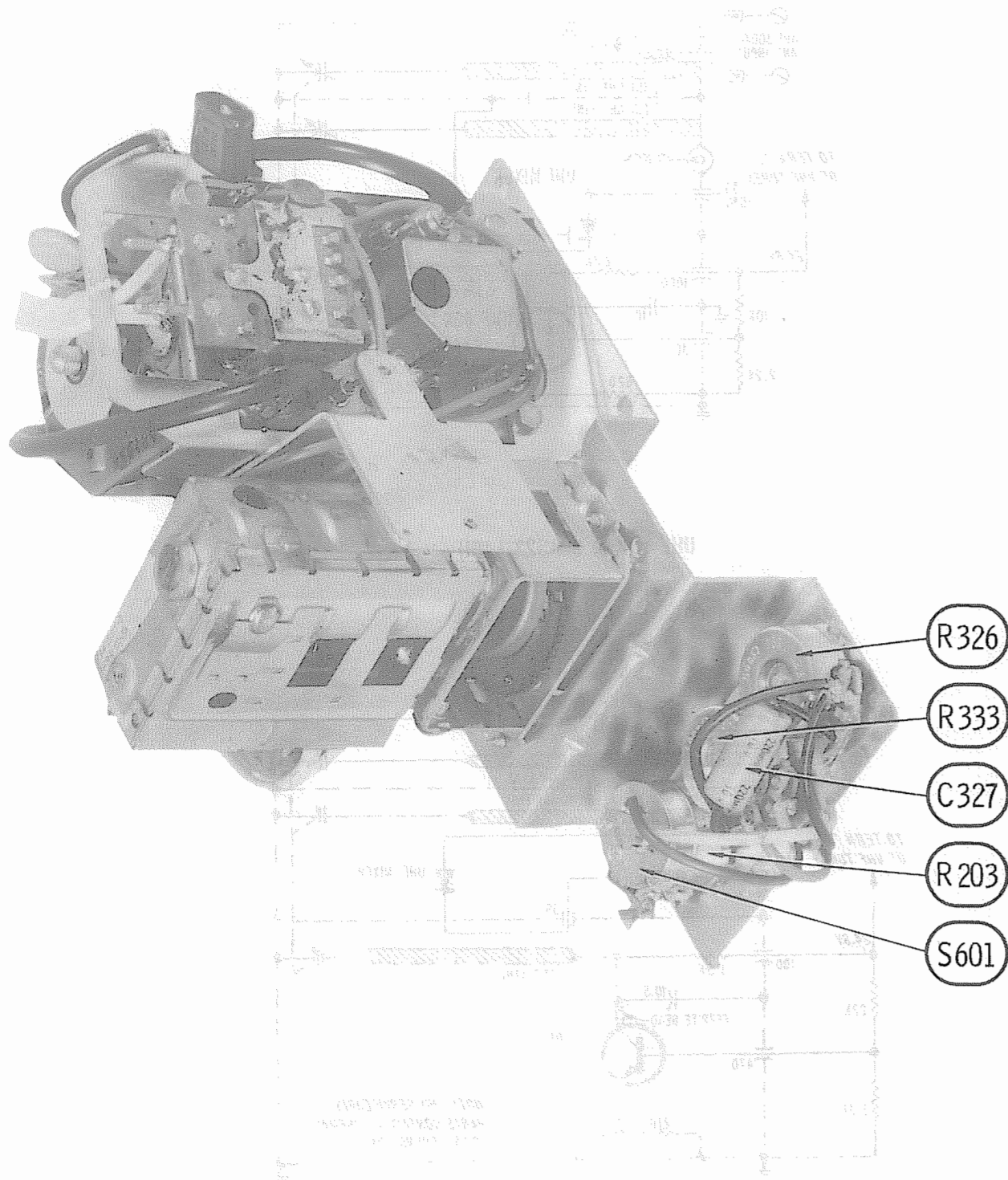
Courtesy of the Manufacturer

Courtesy of the Manufacturer

MAIN BOARD



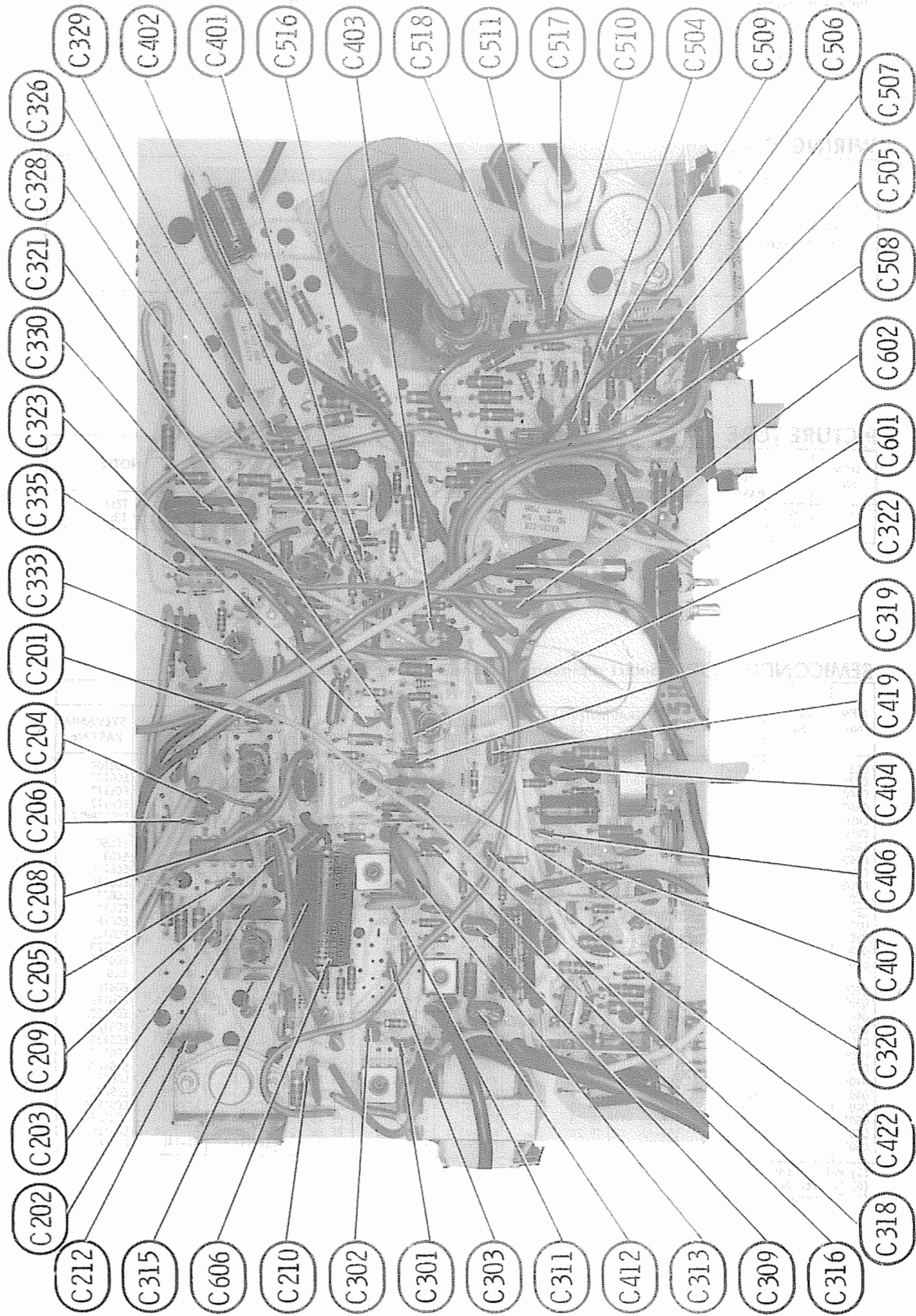
TUNER ASSEMBLY



ADMIRAL CHASSIS T2L6-1A/-2A, T3L6-1A/-2A

FOLDER 1

MAIN BOARD



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.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
SG401 SG402	VHF Antenna	69A344-2	Polarized
	UHF Antenna	69A304-3	
	AC Power Cord	89A122-31	
	UHF Tuner	94A523-1	
	UHF Tuner	94A522-1	
	VHF Tuner	94A434-4	
	VHF Tuner	94A526-4	
	Spark Gap	62A2-5	
	Spark Gap	62A2-5	
	Lead	88A106-14	
	Socket	87A164-3	Lead, CRT Anode (Inc. CRT anode and CR503 cathode connectors.) CRT IC201
	Socket	87A160-1	

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

ITEM	PART No.	MODEL															
		98618	98618M	98622	98622M	98638P	98638PM	128618	128618M	128627	128627M	128632	128632M	128648P	128648PM	128666	128666M
Cabinet Back	33A1869-7			X	X												
Cabinet Back	33A1869-4	X	X			X	X										
Cabinet Back	33A1868-2										X	X					
Cabinet Back	33A1868-3							X	X					X	X		
Cabinet Back	33A1868-5									X	X						
Cabinet Back	33A1868-24														X	X	
Cabinet Front (Less Insert)	34A368-4					X	X										
Cabinet Front (Less Insert)	34A368-12	X	X														
Cabinet Front (Less Insert)	34A368-13			X	X												
Cabinet Front (Less Insert)	34A367-6												X	X			
Cabinet Front (Less Insert)	34A367-13							X	X								
Cabinet Front (Less Insert)	34A367-14									X	X						
Cabinet Front (Less Insert)	34A367-15										X	X					
Cabinet Front (Less Insert)	34A367-22														X	X	
Knob, On-Off, Vol., Cont., Bright.	33A1639-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Knob, UHF Channel Selector	33A1973-5					X	X							X	X	X	X
Knob, UHF Channel Selector	33A1973-16	X	X	X	X			X	X	X	X	X	X				
Knob, VHF Channel Selector	33A2069-1					X	X							X	X	X	X
Knob, VHF Channel Selector	33A2069-5	X	X	X	X			X	X	X	X	X	X				
Knob, UHF Fine Tuning	33A2068-2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Knob, VHF Fine Tuning	33A2070-1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Knob, UHF Indicator	21A305-2	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Earphone	58A4-10	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C327	220 10V	67A200-221-2	EP15-250	PC250-10	VTT220F10	EV-1140
C333	2 15V	67A200-209-3	EA30-2	WBR2-50	TT15X2	TVA-1141
C335	10 15V	67A200-100-3	EA15-10	WBR10-25	TT15X10	TVA-1145
C405	2 15V	67A200-209-3	EA30-2	WBR2-50	TT15X2	TVA-1141
C409	100 35V	67A200-101-6	EA50-100	WBR100-50	TC35019	TVA-1310
C411	25 25V	67A200-250-4	EA30-25	WBR25-25	TC26C	TVA-1205
C413	250 25V	67A200-251-4	EA30-250	WBR250-25	TC25025B	TVA-1208
C506	5 15V	67A200-509-3	EA15-5	WBR5-50	TT15X5	TVA-1144
C511	5 25V	67A200-509-4	EA30-5	WBR5-50	TT25X5	TVA-1203
C603A	250 165V	67A30-11		CC0129.7A	PFP318.67	PCL-3454.8
B	150 150V					
C	200 150V					
C604	50 50V	67A200-500-7	EA50-50	WBR50-50	MTA50E50	TVA-1306
C606	500 35V	67A200-501-6	EA50-500	WBR500-50	MTA500E50	TVA-1315

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	15 NPO 10%		DTZ-15	HP015	CN0415	10TCC-Q15
C202	120 NPO 5%		DTZ-120		CN0312	10TCC-T12
C203	.1 50V			DPMS2P1	EWFA1010	1PB-P10
C204	.01 50V		CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C205	15 NPO 10%		DTZ-15	HP015	CN0415	10TCC-Q15
C206	.01 50V		CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C207	.047 50V			DPMS2S47	EWFA1A17	1PB-S47
C208	.022 50V		CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C209	.01					10TS-S10
C210	.005 1.4KV		DD16-502	HV3-5000		30GA-050
C211	330 10%		DD-331	GP330	GP333	10TS-T33
C212	.005 1.4KV		DD16-502	HV3-5000		30GA-050
C301	20 NPO 5%		DTZ-20	HP020	CN0420	10TCC-Q20
C302	15 NPO 5%		DTZ-15	HP015	CN0415	10TCC-Q15
C303	15 NPO 5%		DTZ-15	HP015	CN0415	10TCC-Q15
C309	.1 50V			DPMS2P1	EWFA1A010	1PB-P10
C310	.0012 10%		DD-122		GP212	10TS-Q12
C311	.0033 10%					10TS-Q33
C313	39 N750 10%				CH7439	10TCU-Q39
C315	.001 10%		DD-102		GP210	10TS-Q10
C316	.0015 10%		DD-152		GP215	10TS-Q15
C318	62 NPO 5%		DTZ-62	HP062	CN0462	10TCC-Q62
C319	27 NPO 5%				CN0427	10TCC-Q27
C320	560 N1500 5%		DTX-561		CN15-356	10TCU-T56
C321	10 NPO ±.25	65A402-100-1				
C322	.0033 10%					10TS-Q33
C323	10 NPO ±.25	65A402-100-1				
C325	220		DD-221		GP322	10TS-T22
C326	460 5%				C015FD471J03	424ME4700J501
C328	820 10%		DD-821		GP320	10TS-T82
C329	.0027 10%				GP227	10TS-Q27
C330	.22 200V				DPMSCP22	6PS-P22
C337	470 1.4KV		DD30-471		EWFE022	30GA-T47
C401	.033 50V 10%				3HV347	6PS-S33
C402	.0015		DD-152		EWFE133	10TS-Q15
C403	.22 50V				GP215	1PR-P22
				DPMSCP22	EWFA022	

ADMIRAL CHASSIS
T16-1A-2A, T316-1A-2A

FOLDER 1

PARTS LIST AND DESCRIPTION (CONTINUED)

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CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C404	.22 50V 10%		CPJ-153 DD-102 DD-471	DPMS2P22	EWFA022	1PB-P22
C405	.015 50V 10%			DPMS4S15	EWFA115	1PB-S15
C407	.001			GP470	GP347	10TS-D10
C408	.475 10%			DPMS2P1	EWFA010	10TS-147
C410	.1 50V 10%			DPMS2P15	EWFA015	1PB-P10
C412	.15 50V 10%			DPMS2P22	EWFA022	1PB-P15
C417	.022 50V			DPMS6D22	EWFE222	1PB-P22
C418	.0022 50V			DPMS2S47	EWFA147	6PS-D22
C419	.047 50V 10%			DPMS2P1	EWFA010	1PB-S47
C420	.1 50V			DPMS2P1	EWFA010	1PB-P10
C421	.1 50V		DD-122 CPJ-102 CPJ-223 DD-472	DPMS2P15	EWFA015	1PB-P10
C422	.015 50V 10%			DPMS2P15	EWFA015	1PB-P15
C501	.0012 10%			DPMS6D1	EWFA210	10TS-D12
C502	.001 50V 10%			DPMS2S22	EWFA122	1PB-D10
C503	.022 50V 10%			GP4700	GP247	1PB-S22
C504	.0047 50V			DPMS6S33	FWF6133	2SS-D47
C505	.033 50V			CD20FD103J03	SX110	6PS-S33
C507	.01 200V 10%			DPMS4S15	EWFA115	1PB-S15
C508	.015 50V 10%			DPMS4S15	EWFA115	6PS-S33
C509	.033 50V 10%			DPMS6S33	EWFA110	1PB-S10
C510	.01 50V 10%		CPJ-153 CPJ-103	DPMS2P1	EWFA2010	2PB-P10
C512	680 H2200 2KV 10%	65A110-453				10TS-S10
C513	680 H2200 2KV 10%	65A110-453				1PB-S22
C514	.1 200V 10%			DPMS2S22	EWFA122	1PB-S10
C516	.01			DPMS4S1	EWFA110	1PB-S10
C517	.022 50V					
C518	.01 50V					
C601	.22 125VAC	63A100-9		HV3-100C	3HV210	306A-D10
C602	.001 2KV	65A131-11 (1)		DPMS2P1	EWFA010	1PB-P10
C605	.1 50V					

(1) Spark Gap

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R203	Volume/Switch	25K	75A1-225				
R32C	Contrast	500	75A1-211	F5-500, SN100	NP-500-V, NML-A-300, TT-2	RU52R, SL37, SN750 or [UA52R, SN750] UA15R, SN750 MTC52L1	BU11, CF50, SS6A
R333	Brightness	100K	75A1-212	F3-100K, SN100			BU11, CF94, SS6A
R339	AGC Delay	400	75A101-35	TSV-500 or T-500	C-501		X201R501B
R407	Vert Hold	1.2meg	75A191-3	F1-1.5Meg (18), SNK200	A47-1.5Meg (18), RN-3 or [NP-1.5Meg-S (18), NML-A-300]	UA155L (18), SN2000 or [RU155L (18), SN2000] or PTA1254L (18) MTC26L1	BU11, CF18, SS6A
R411	Vert Size	2meg	75A101-61	T-2Meg or TSV-2.2M			X201R205B

(10) Use original mounting bracket.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R601	5 10% 5W WW	5W-SQ-5	61A20-118	R604	100 10% 7W WW	10W-SQ-100	61A107-101
R603	100 10% 5W WW	5W-SQ-100	61A105-101	R607	120 10% 5W WW	5W-SQ-125	61A105-121

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.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L201	Sound Input IF	72A317-1		23A225RPC	
L202	Quadrature	72A317-6			
L203	RF Choke	73A31-19			
L301	Video Input IF	72A415-8			
L302	47.25MHz Trap	72A415-5			
L303	1st Video IF	72A415-5			
L305	2nd Video IF	72A316-4			
L306	Video Output IF	72A316-8			
L307	RF Choke	73A31-19			
L308	RF Choke	73A31-20			
L309	RF Choke	73A31-21			
L310	4.5MHz Trap	72A317-9			
L311	Peaking	73A55-13			
L312	Peaking	73A55-25			

COILS & TRANSFORMERS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA				
		MFR. PART No.	OTHER IDENTIFICATION	MILLER PART No.	THORDARSON PART No.	TRIAD PART No.
L501	Horiz Osc (Hold)	94A480-1	94C480-1			
T401	Yoke 85" Horiz 6.9mH Vert 22.5mH	94A372-4 94A372-4 (1)	94C372-4			
T501	Horiz Driver	72A417-1	72C417-1			
T503	Horiz Output	79A166-4	79D166-4			

(1) Part No. 94A372-3 used with 9" CRT.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	8000	3.2	79A172-1 T79C172-1-B (1)			(1) Number on unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP201	3" PM 3.2 ohms	78A211-2	30A05	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F601	Quick-acting Pigtail 1.5A @ 250V	84A7-15		GJV-1 1/2		31801.5		

ADMIRAL CHASSIS
T216-1A/-2A, T316-1A/-2A

FOLDER 1

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.

WIRING DATA

High Voltage Lead	Use Belden No. 8869 (17 KV)
Shielded Hook-up Wire	Use Belden No. 8401 or 8421 (Single-Conductor)
General-use Unshielded Hook-up Wire	Use Belden No. 8208 (Two-Conductor)
	8528 (Solid) Available in 12 Colors
	8522 (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

PICTURE TUBE

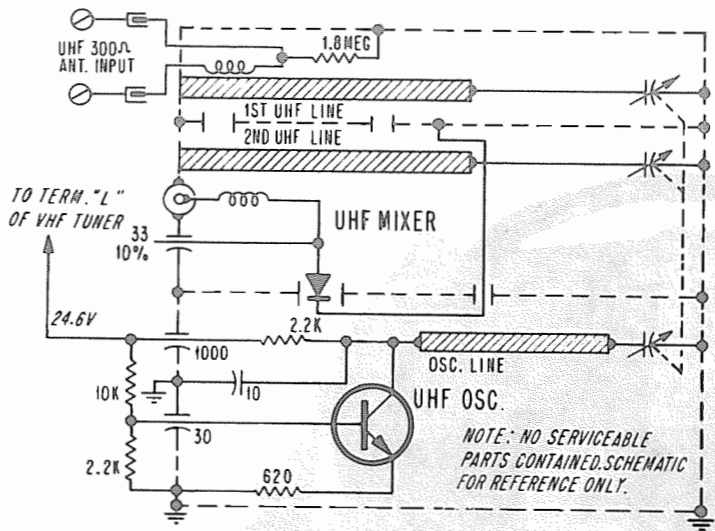
ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V301	9VAMP4 12VBJP4		12VB1P4	12VBJP4	Chassis T2L6 Chassis T3L6

SEMICONDUCTORS (Select replacement transistor for best results)

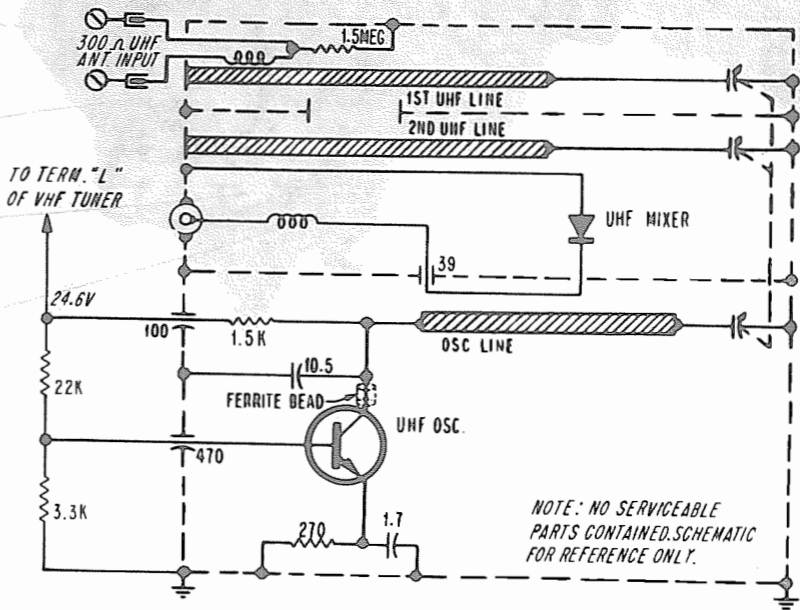
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			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CR301	93A6-1	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109	
CR302	93A60-5	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	
CR401	93A64-1	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	
CR402	93A60-6	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	
CR501	93A60-6	GE-300(7)	D200MP(6)	PTC214M(6)	HEPR0602(7)	RE 52(7)	SK3100(7)	RT-218(7)	ECG178MP(6)	
CR502	93A60-6									
CR503	93A93-2	GE-5	JJ1300	PTC211			SK3068	RT-229	ECG503	
CR504	93A60-6	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	
CR601	93A52-1	GE-504A	8D4	PTC201	HEPR0053	RE 49	SK3016	RT-215	ECG116	
CR602	93A60-7	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-214	ECG116	
IC201	56A9-1	GE1C-26		PTC745	HEPS6060P			TYCM-41	ECG748	
Q201	57A192-10	GE-12	TR-81	PTC104	HEPS5011	RE 14	SK3131	RT-128	ECG124	
Q301	57A139-4	GE-20	TR-24	PTC121	HEPS0020	RE 28	SK3117	RT-187	ECG161	
Q302	57A136-4	GE-20	TR-24	PTC121	HEPS0024	RE 10	SK3117	RT-187	ECG108	
Q304	57A191-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107	ECG123A	
Q305	57A172-8	GE-27	TR-79	PTC110	HEPS3019	RE 44	SK3103	RT-159	ECG190	
	57A211-8	GE-27	TR-79	PTC110	HEPS3019	RE 44	SK3103	RT-159	ECG190	
Q306	57A185-12	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3138	RT-126A	ECG159	
Q307	57A185-12	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3138	RT-126A	ECG159	
Q401	57A184-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107A	ECG123A	
Q402	57A191-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107	ECG123A	
Q403	57A191-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107	ECG123A	
Q404	57A191-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107	ECG123A	
Q405	57A184-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107A	ECG123A	
Q406	57A214-12(5)	GE-57	TR-76	PTC167	HEPS5000	RE 21	SK3054	RT-154	ECG291	
Q407	57A188-12(5)	GE-58	TR-77	PTC166	HEPS5006	RE 22	SK3083	RT-155	ECG292	
Q408	57A184-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107A	ECG123A	
Q501	57A191-12	GE-20	TR-33	PTC121	HEPS0015	RE 13	SK3137	RT-107	ECG123A	
Q502	57A185-12	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3138	RT-126A	ECG159	
Q503	57A213-11	GE-36	TR-61	PTC146	HEPS5020	RE 29	SK3115	RT-140	ECG163	

- (5) Half of complementary pair (Q406 and Q406).
(6) Matched pair.
(7) Two required - select matched pair.

UHF TUNER 94A522-1 (Sarkes Tarzian)



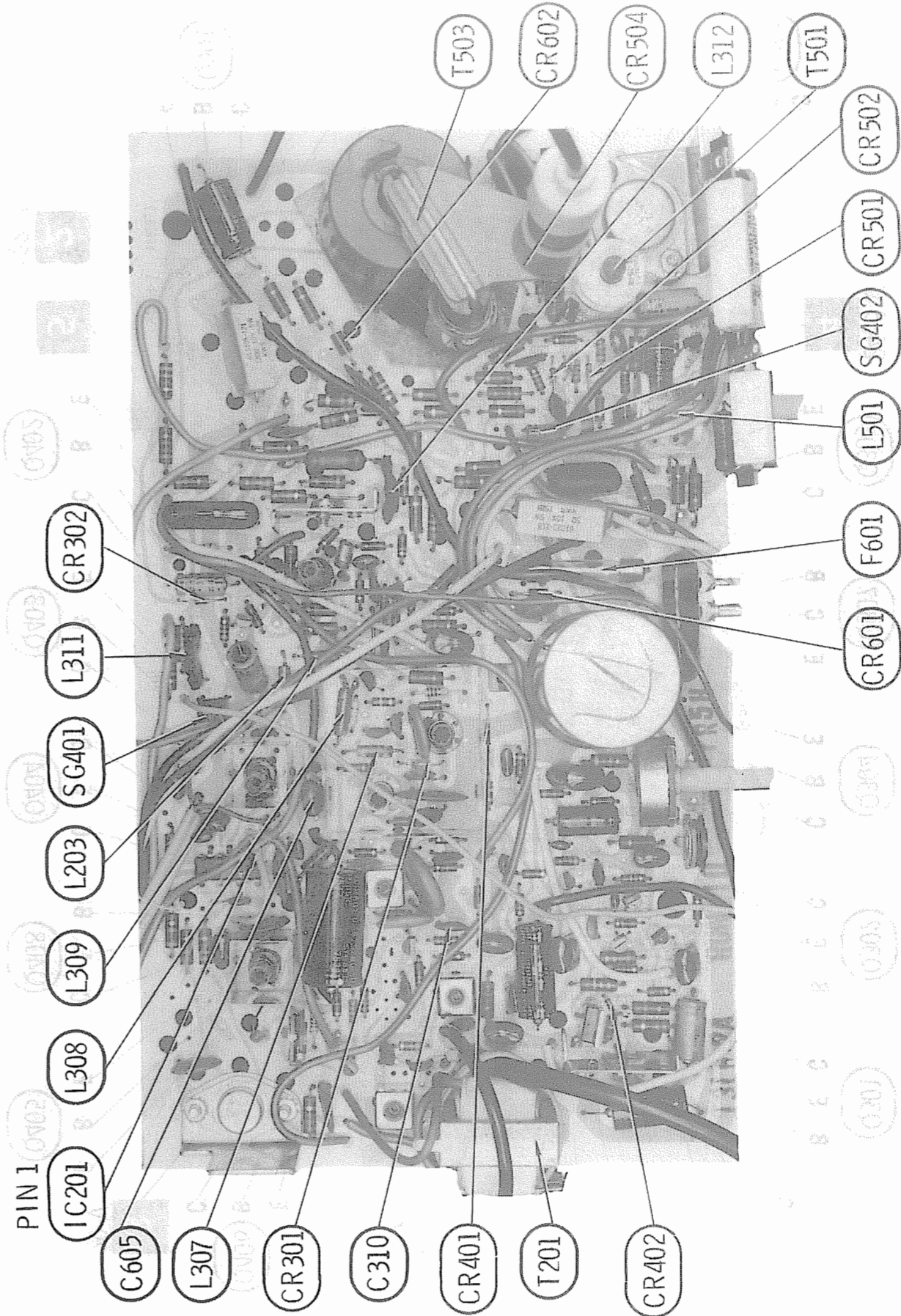
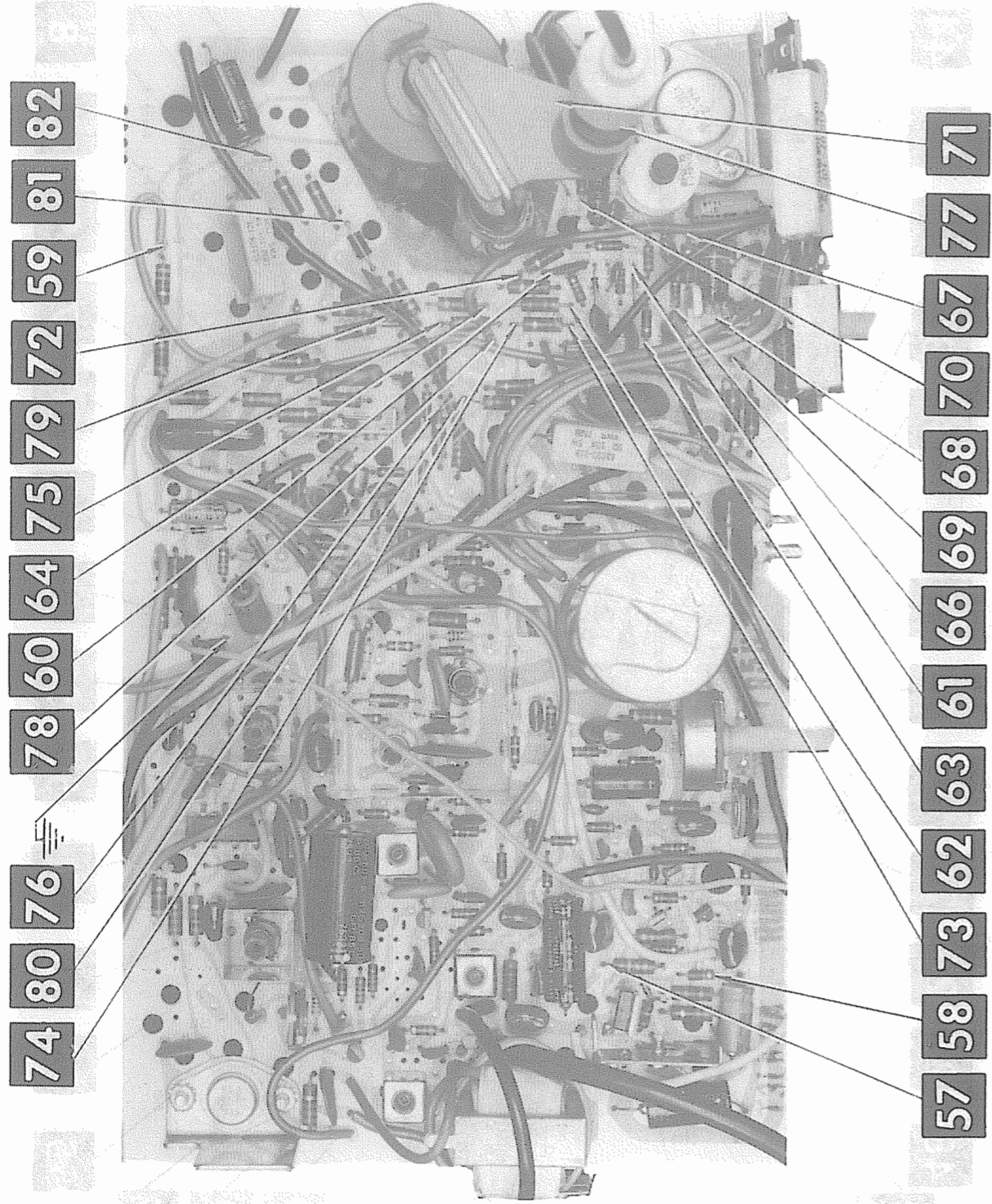
UHF TUNER 94A523-1 (GI)



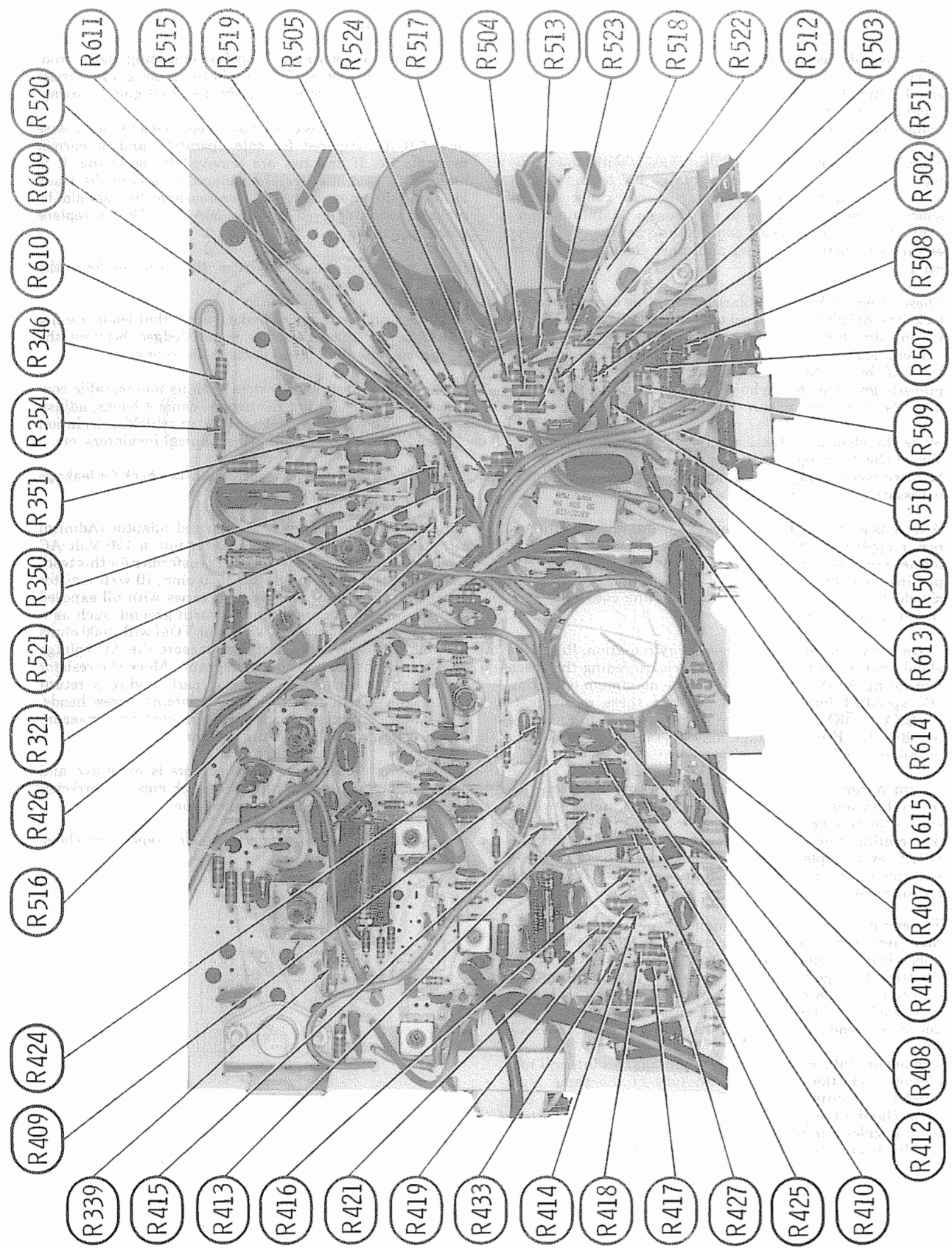
Courtesy of the Manufacturer

ADMIRAL CHASSIS
T2L6-1A-2A, T3L6-1A-2A

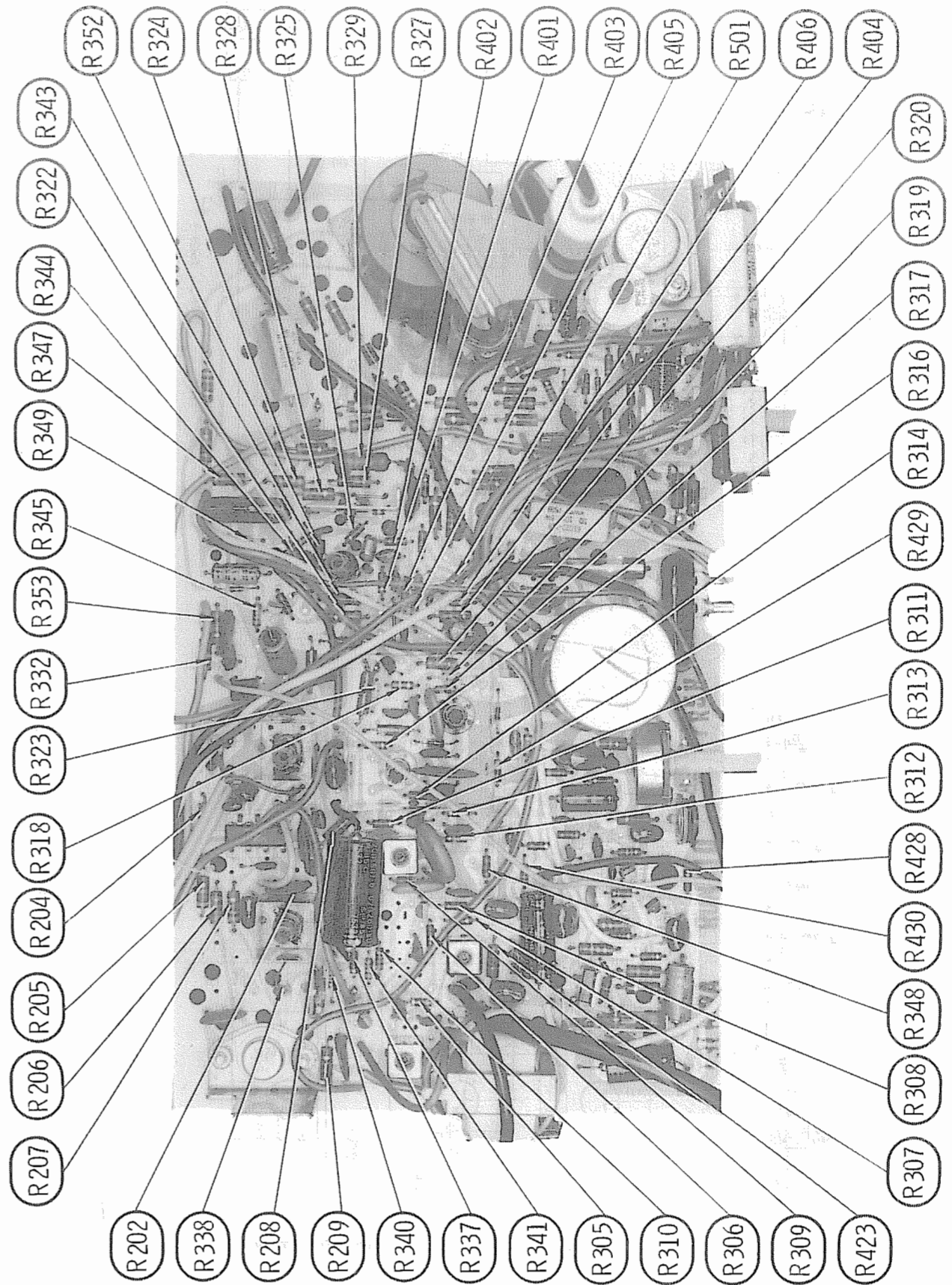
FOLDER 1



MAIN BOARD



MAIN BOARD



ADMIRAL CHASSIS
T216-1A/-2A, T316-1A/-2A

TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain voltage at 120VAC.
Allow a 20-minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: GC ELECTRONICS

L305, L306, L310, L201, L202, VHF Tuner IF Output Coil.9296,9297,9500
L301, L302, L3039440

VIDEO IF ALIGNMENT

Set the channel selector to highest unused channel. 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 3 volt bias to I, low side to ground.

CONNECT SCOPE	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
Vertical input to V, low side to ground.	Thru .001uF to TP1 or point S on VHF tuner, low side to ground.	44MHz (10MHz Sweep)	47.25MHz	Adjust L302 for MINIMUM. See Fig. 1
"	"	"	42.17MHz 44.00MHz 45.75MHz 47.25MHz	Adjust L301, L303, L305, L306, and VHF Tuner, IF Output Coil for maximum gain and symmetry of response. See Fig. 2 L301 and VHF Tuner IF Output Coil affects overall response. L303 and L305 affects 44.00MHz and 45.75MHz markers. L306 affects 42.17MHz and 44.00MHz markers.

SOUND IF ALIGNMENT

Tune in a station and adjust L201 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 L202.

4.5MHz 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 L310 for MINIMUM beat interference.

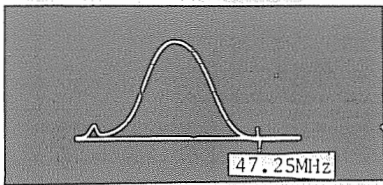


Fig. 1

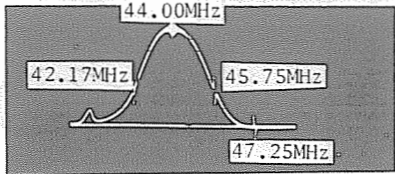
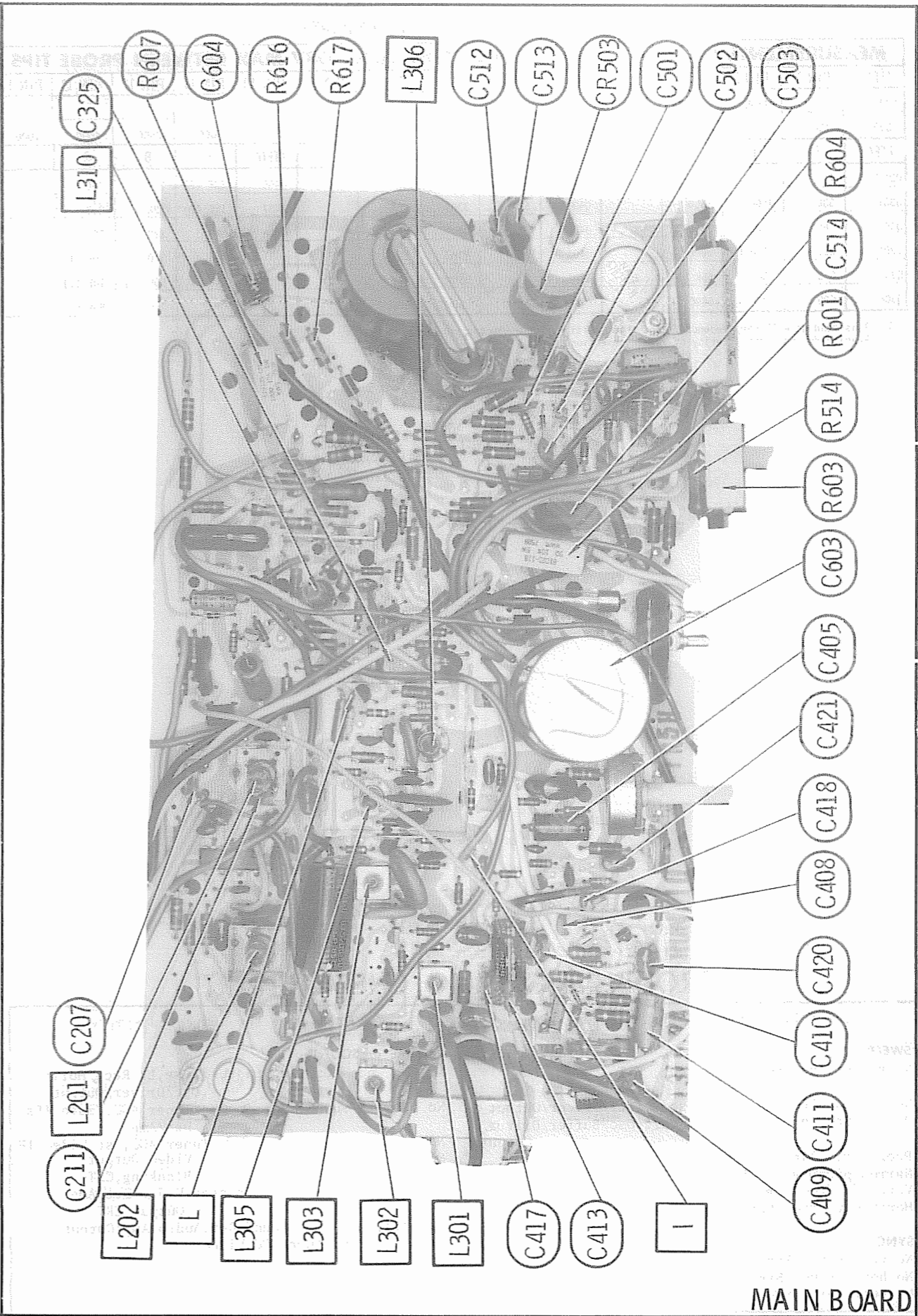


Fig. 2



MAIN BOARD

ADMIRAL CHASSIS
T2L6-1A/-2A, T3L6-1A/-2A

FOLDER 1