

PHOTOFACT® Folder

with CIRCUITRACE™

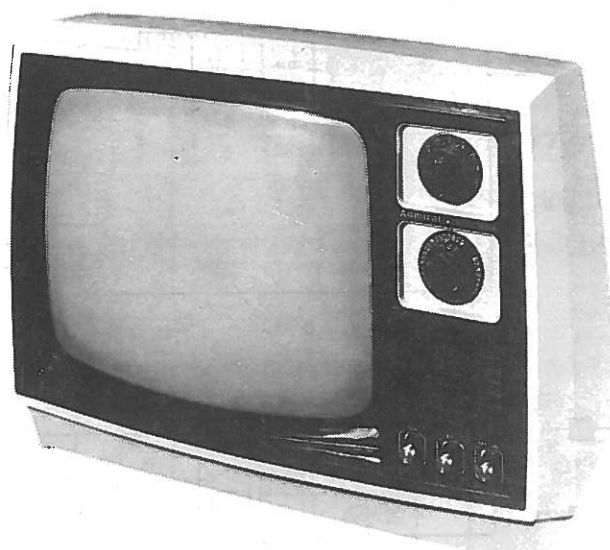
ADMIRAL CHASSIS
T1L7-/T2L7-/T5L7-1A/-2A

For Supplier Address See PHOTOFACT Index



ADMIRAL CHASSIS
T1L7-/T2L7-/T5L7-1A/-2A

MODEL	CHASSIS
9B840K	T1L7-2A
9B840L	T1L7-1A
9B848K	T1L7-2A
9B848L	T1L7-1A
12B850K	T2L7-2A
12B850L	T2L7-1A
12B854K	T2L7-2A
12B854L	T2L7-1A
12B858K	T2L7-2A
12B858L	T2L7-1A
12B868K	T2L7-2A
SKB1202	T5L7-1A
SKB1202M	T5L7-2A



MODEL 12B854K

ADMIRAL CHASSIS
T1L7-/T2L7-/T5L7-1A/-2A

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. 8PC2105

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10 9 8 7 6 5 4 3 2 1 0

DATE 6-78

SET 1741 FOLDER 1

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							
IC201	12K	4400	4000	INF	4400	INF	0	50	82K	INF	4000	2500	4000	1000
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q201	110	INF	50K (1)		Q307	270	1200	47K		Q406	INF (2)	2700	750	
Q301	330	4000	1500		Q401	680	330K	19K		Q407	INF (2)	33K	3.3	
Q302	560	2000	1100		Q402	0	70K	2M						
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)	INF (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

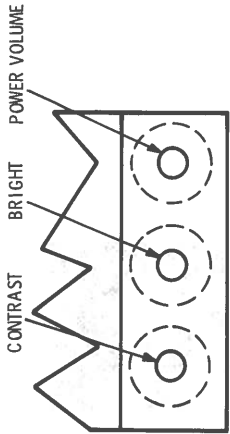
No raster, has sound: HV Rect, CRT
No vert deflection: Vert Osc/Buffer/Driver/Output
Poor vert lin or foldover: Vert Osc/Buffer/Driver/Output
Poor horiz lin or foldover: Horiz Driver/Output
Narrow picture: LV Rect, Horiz Driver/Output
Vert off freq: Vert Osc/Buffer
Horiz off freq: Horiz Osc/Phase Det

SYNC

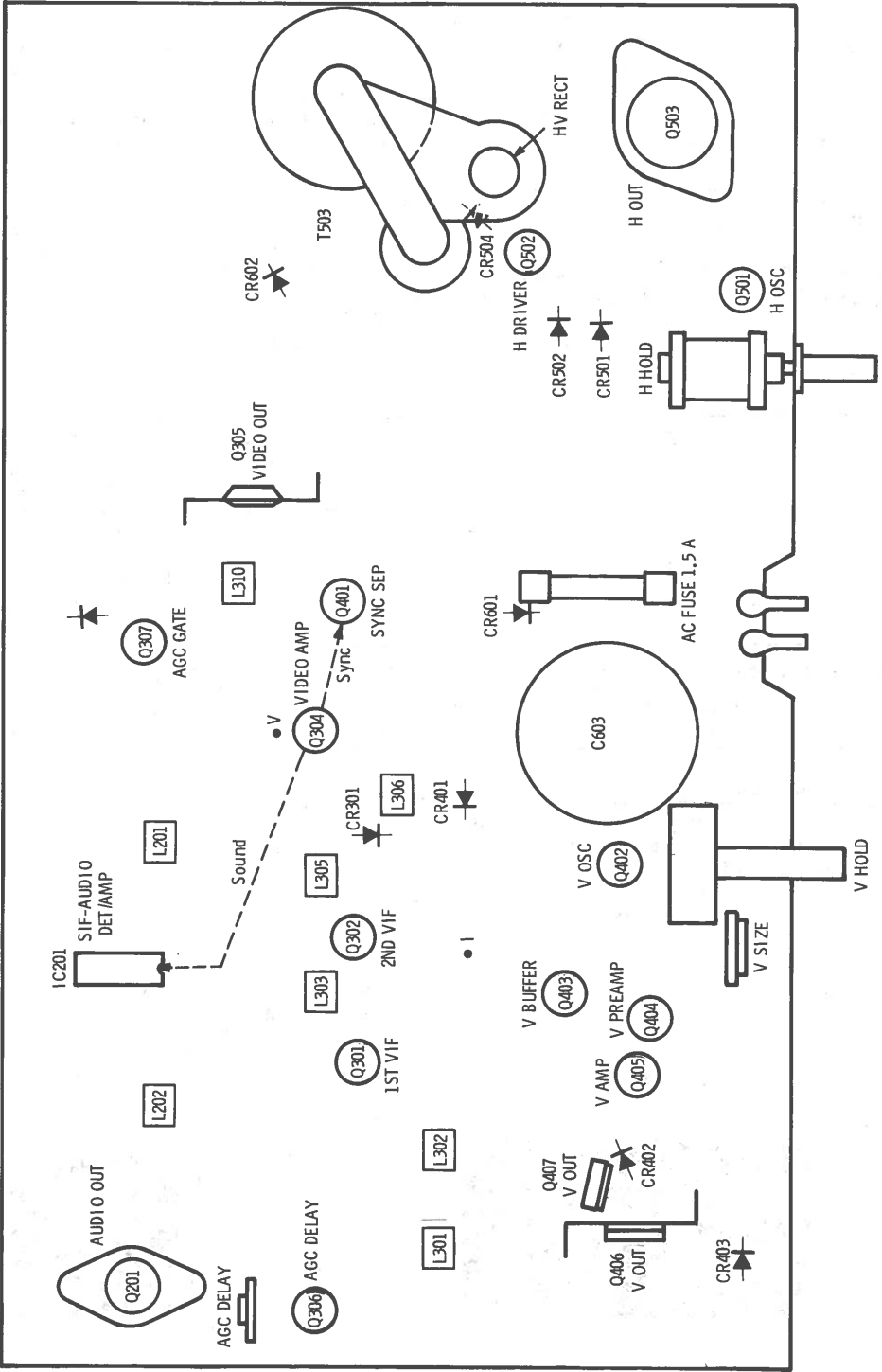
No vert sync: Sync Sep, Vert Osc
No horiz sync: Sync Seps, Horiz Phase Det/Osc
No vert/horiz sync: Sync Sep

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



TOP VIEW



TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 120VAC.
Allow a 20-minute warm-up period for receiver and test equipment.
Suggested Alignment Tools: GC ELECTRONICS
L201,L202,L305,L306,L310,VHF Tuner IF Output Coil 9296,9297,9300.
L301,L302,L303. 9440

PRELIMINARY INSTRUCTIONS

Set the channel selector to the highest unused channel. Set scope sweep to external. Connect scope vertical input to scope vertical input on sweep/marker generator. Connect scope external horizontal input to scope horizontal input on sweep/marker generator. Ground test equipment to TV chassis unless specified otherwise. 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 and R, low side to ground.

VIDEO IF ALIGNMENT

DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To V.	To TP1 or S on VHF tuner.	44MHz (10MHz Sweep)	47.25MHz	Adjust L302 for MINIMUM. See Figure 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. L301 and VHF Tuner IF Output Coil affects overall response. L303 and L305 affect 44.00MHz and 45.75MHz. L306 affects 42.17MHz and 44.00MHz. See Figure 2.

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.

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.

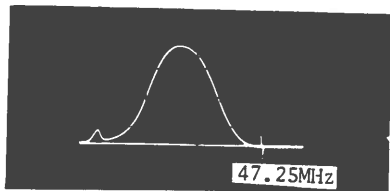


Fig. 1

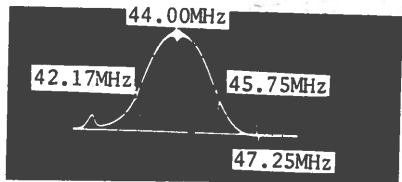
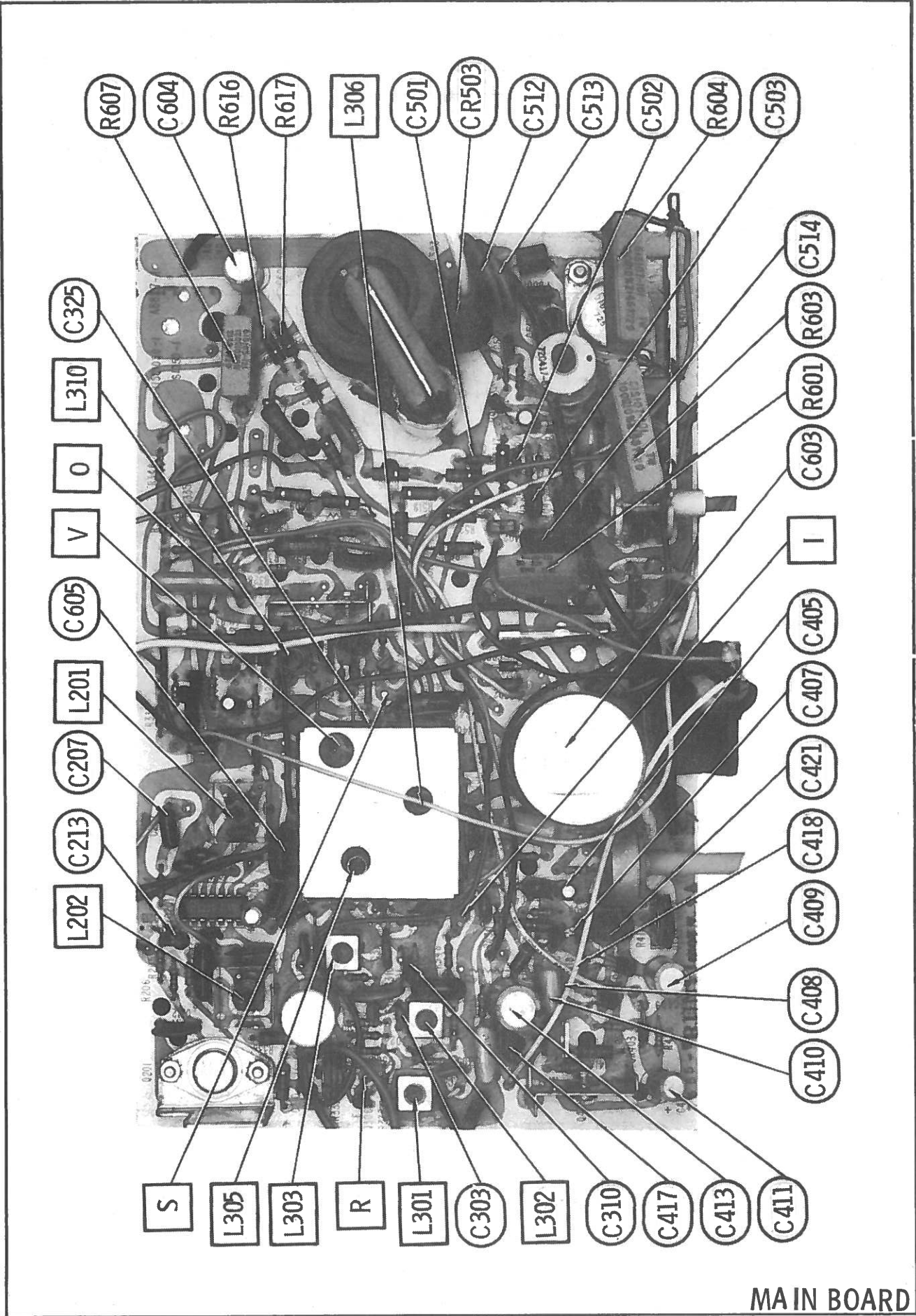


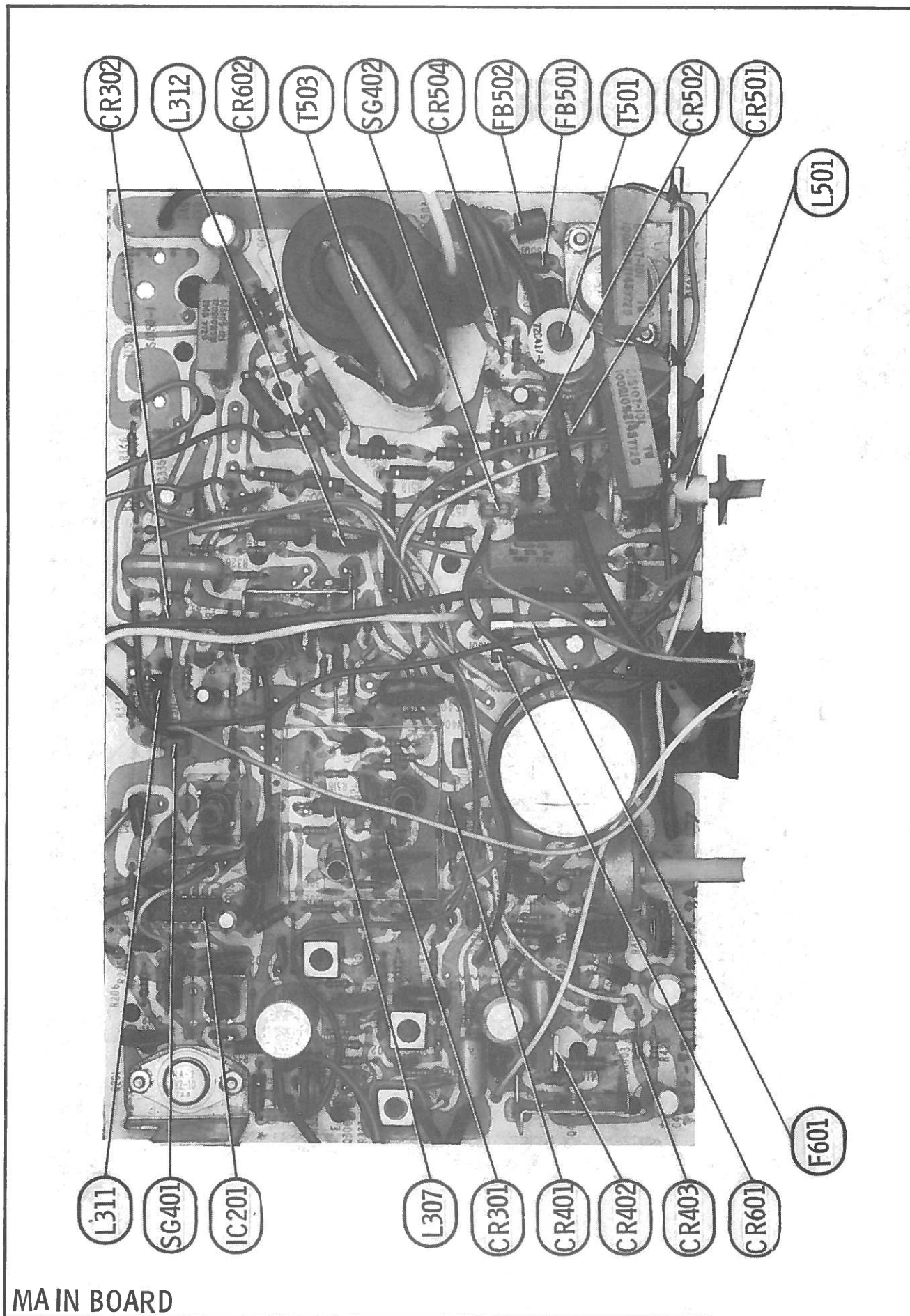
Fig. 2



MAIN BOARD

ADMIRAL CHASSIS
T1L7-/T2L7-/T5L7-1A/-2A

FOLDER 1



MAIN BOARD

SAFETY PRECAUTIONS

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. 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. No changes should be made to the original design of the receiver. **Components shown in the shaded areas on the schematic should be replaced with exact Factory replacement parts. The use of unauthorized substitute parts may create a shock, fire or other hazard.**

To determine the presence of high voltage, use an accurate, high impedance, HV meter connected between second anode lead and the CRT dag grounding device. 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.

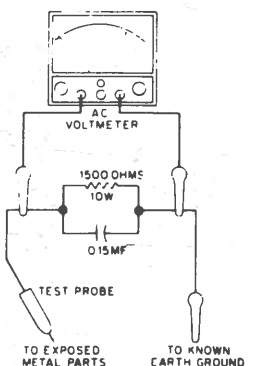
SAFETY INSPECTION

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

PROTECT YOUR CUSTOMER

1. 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.
2. 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.
3. 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.
4. To be sure that no **shock hazard** exists, check for leakage current in the following manner.

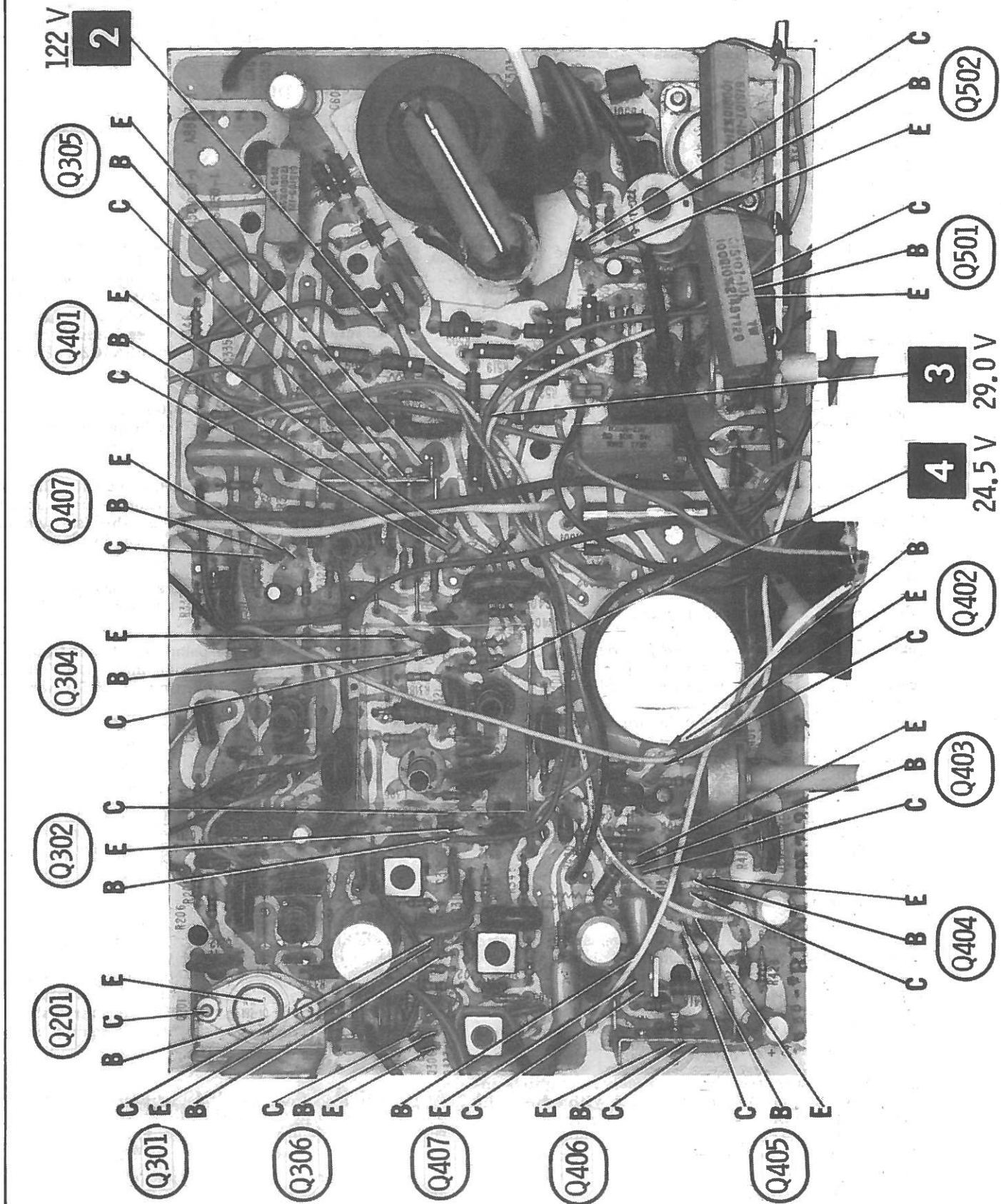
Plug the AC line cord into a polarized adaptor (Admiral Part No. 89A116-1). Plug the adaptor into a 120 Volt AC receptacle (**do not use an Isolation Transformer for this test**). Using two clip leads, connect a 1500 ohm, 10 watt resistor paralleled by a .15mf capacitor, in series with all exposed metal 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.



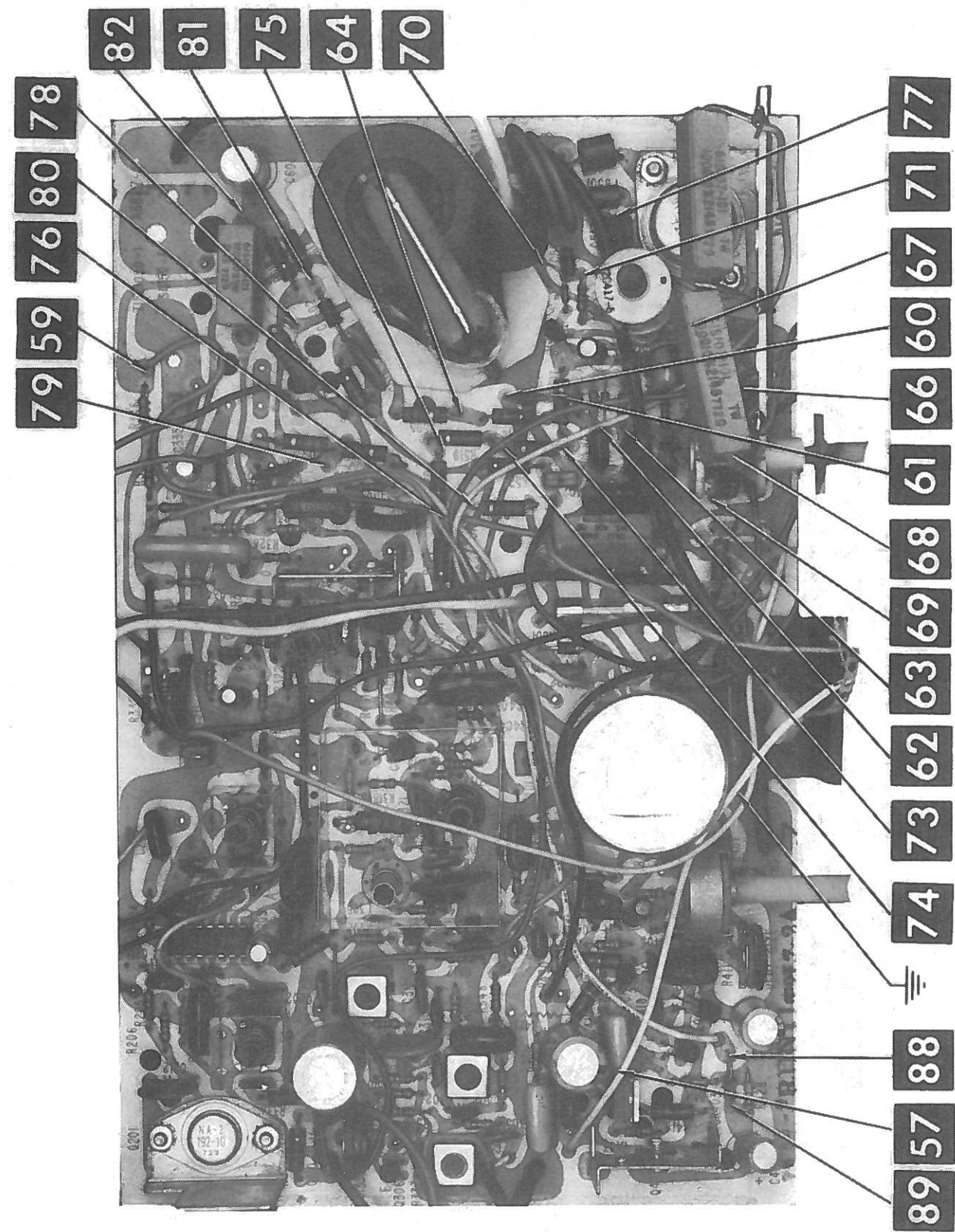
Any reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the receiver to the owner.

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

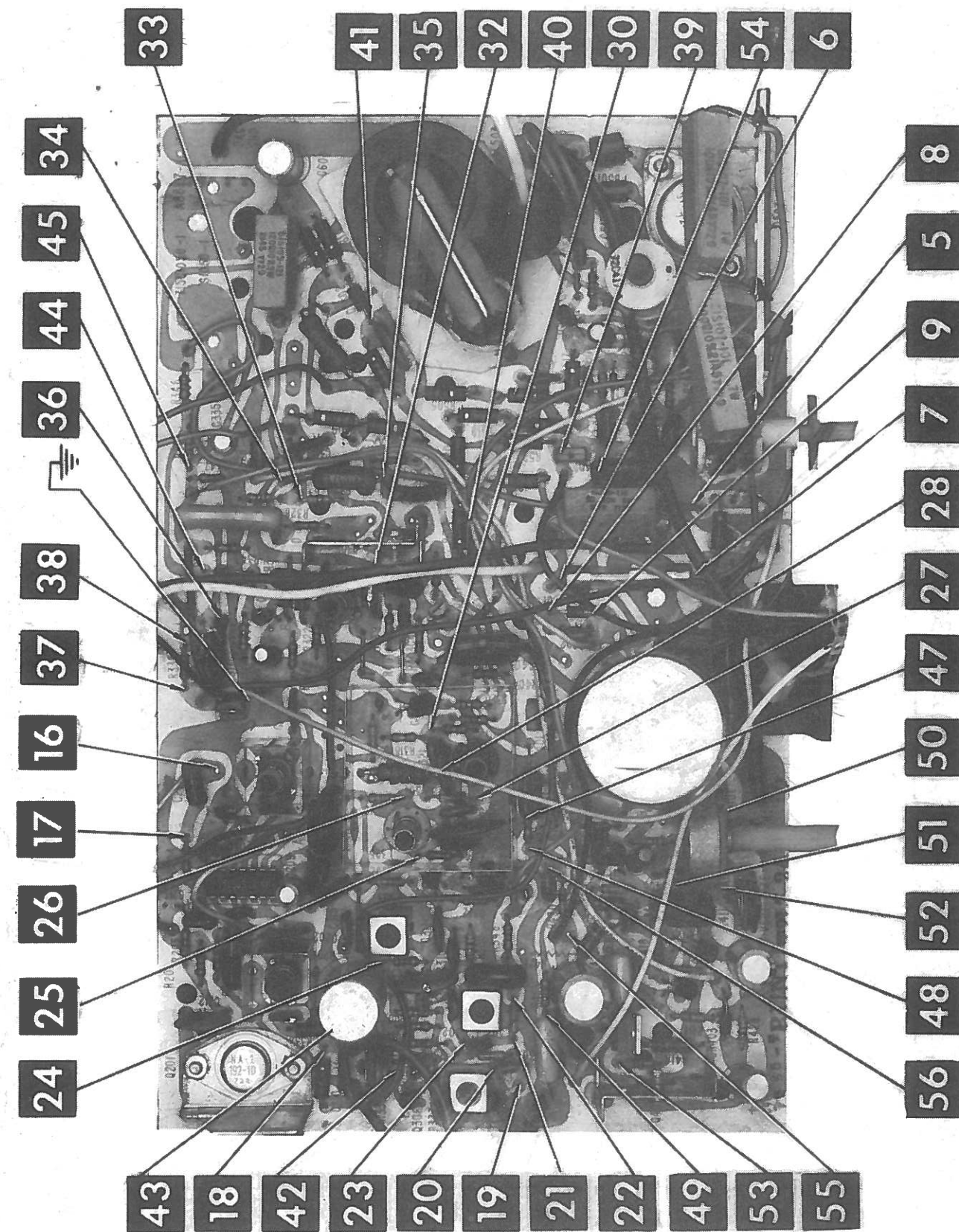
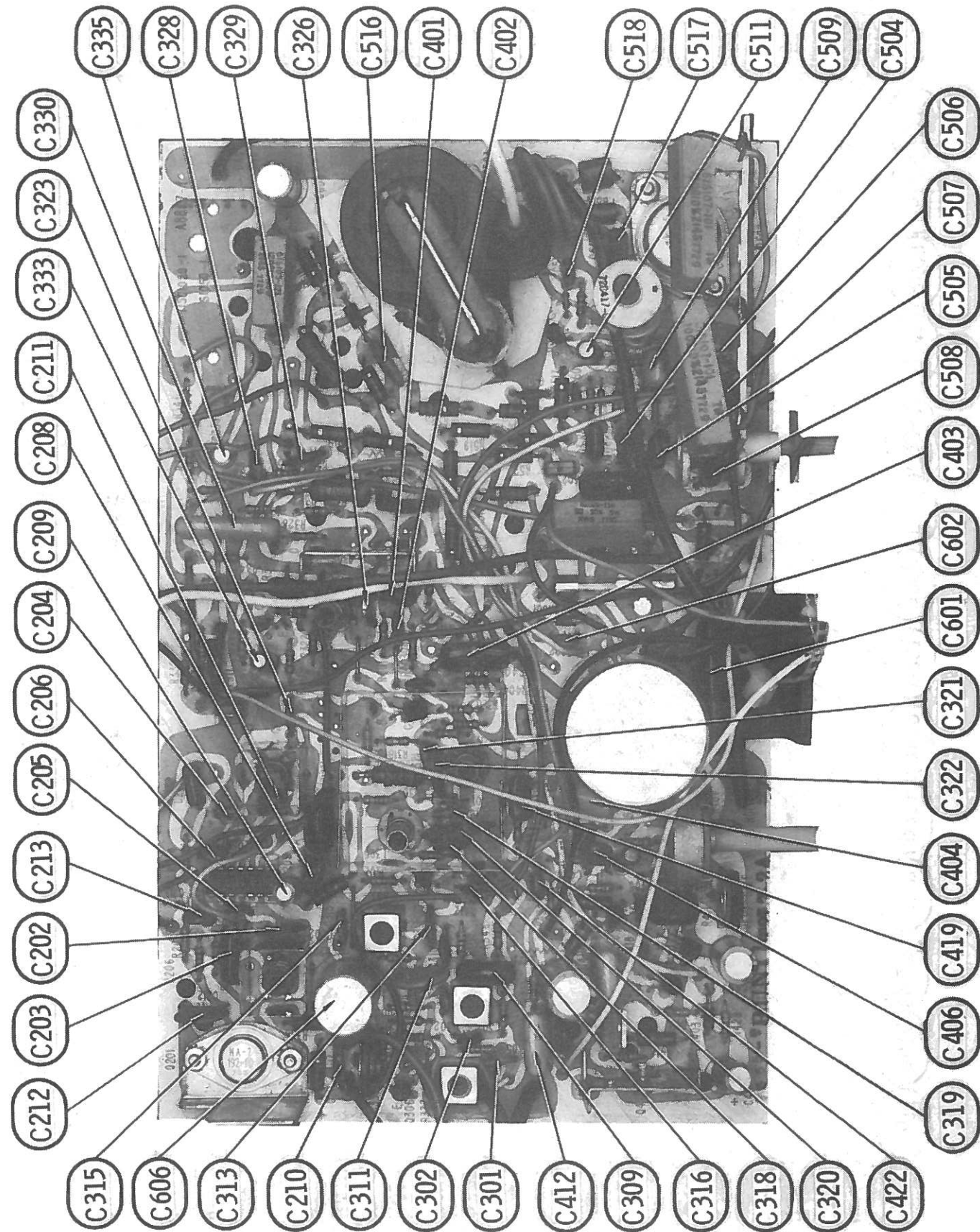
Courtesy of the Manufacturer

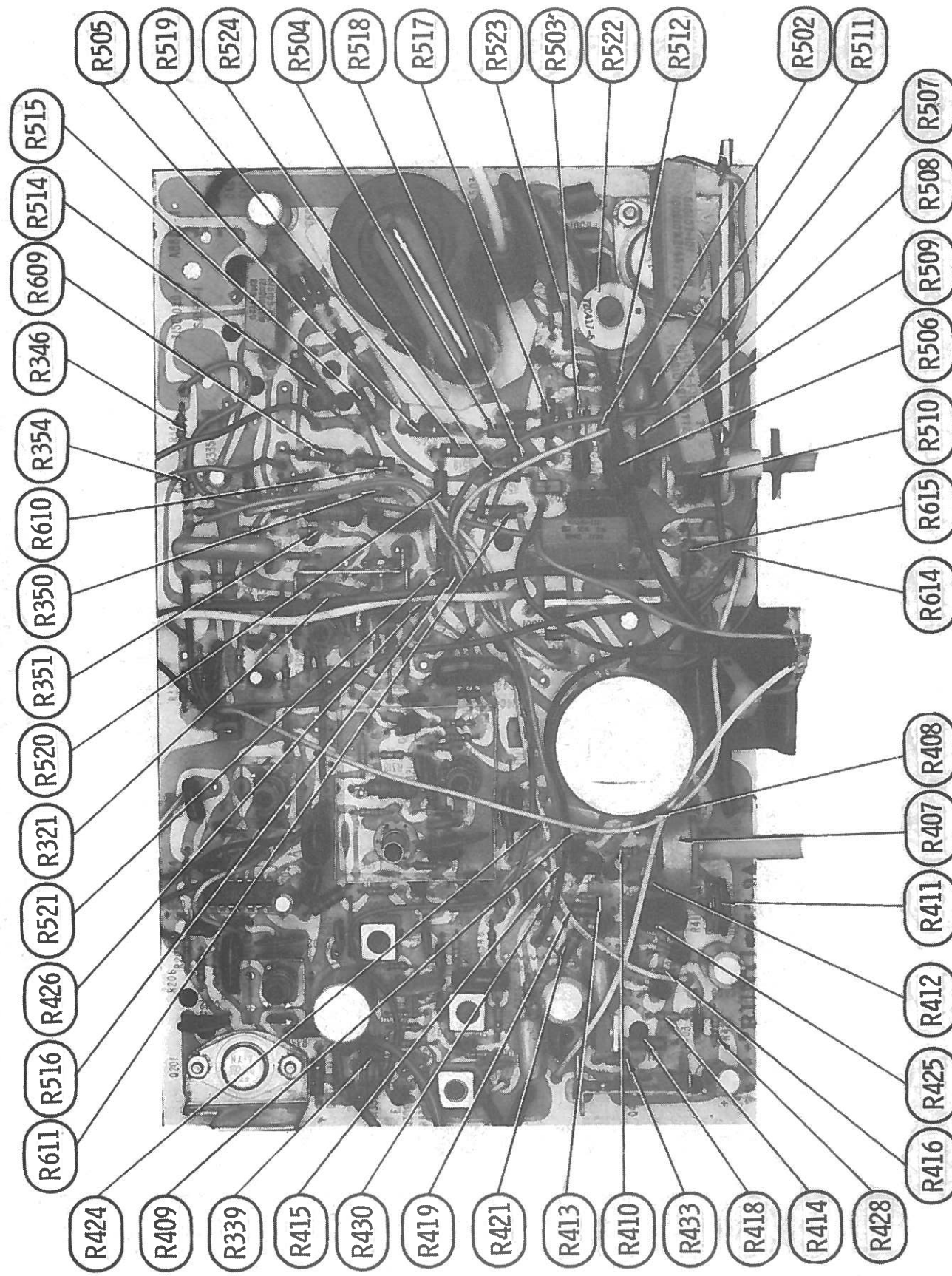
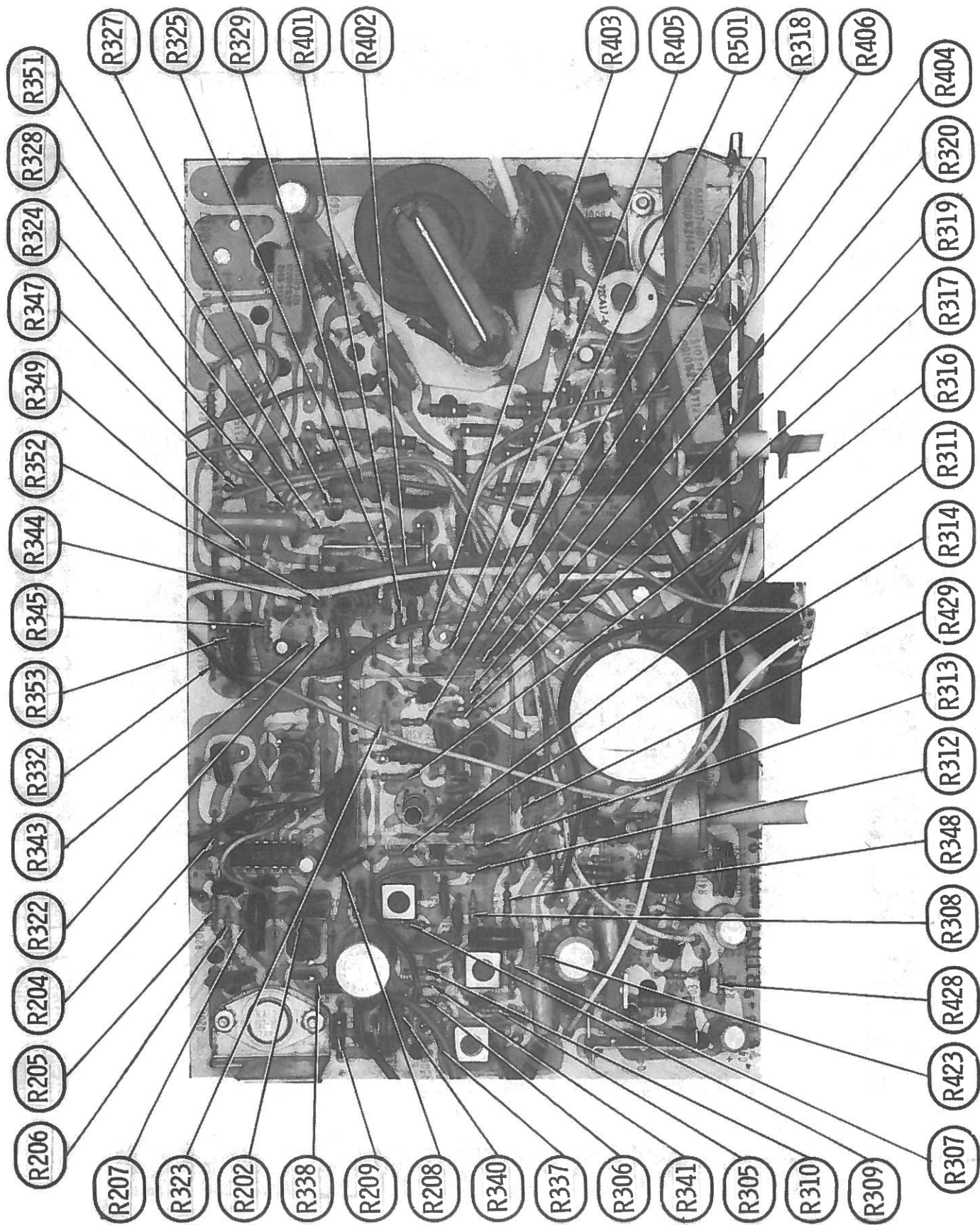


MAIN BOARD A Howard W. Sams CIRCUITRACE[®] Photo



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.

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	1.5A @ 250V Quick-acting Pigtail	84A7-15		GJV 1 1/2		31801.5		

For SAFETY use only equivalent replacement part.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
# FB501	Ferrite Bead	71A55-3	UHF Tuner, Chassis T1L7-1A, T2L7-1A, T5L7-1A UHF Tuner, Chassis T2L7-2A, T5L7-2A VHF Tuner, Chassis T1L7-2A Preference Controls Line Cord Mounting IF Assembly UHF Assembly AC Line Cord IF Cable Line Cord Bracket (2 used) Horiz Hold Adj. CRT CRT Dag, Ground Power Resistor Mounting (R603 and R604) RUSSELL Assembly Replacement GEN-1H
FB502	Ferrite Bead	71A55-2	
M201	Earphone Jack	88A79-4	
SG401	Spark Gap	62A2-5	
SG402	Spark Gap	62A2-5	
#	AC Power Cord	89A168-2	
#	Antenna Input Ass'y	A8868-1	
#	Barrier	32A1011-7	
#	Barrier	32A1195-2	
#	Barrier	32A1195-1	
#	Barrier	32A1172-4	
#	Bracket	33A2259-1	
#	Cable	700A381-94	
#	Cable	700A1500-4	
#	Clamp	11A27-31	
#	Plug	88A2-9	
#	Rivet	13A9-11	
#	Rod	33A1213-10	
#	Socket	87A164-5	
#	Spring	19A199-7	
#	Terminal Strip	10A203-604	
#	VHF Antenna	69A344-16	
#	UHF Tuner	94A522-2	
#	UHF Tuner	94A523-2	
#	VHF Tuner	94A434-7	
#	VHF Tuner	94A526-7	
#	VHF Tuner	94A434-11	
#	VHF Tuner	94A526-10	

For SAFETY use only equivalent replacement part.

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

ITEM	PART No.	PART No.	PART No.	PART No.	PART No.
	MODELS SKB1202,M	MODELS 98B40K,L	MODELS 98B48K,L	MODELS 12B850K,L	
Cabinet Front	34A380-3	34A368-35	34A368-33	34A367-57	
Cabinet Back	34A381-4	33A1869-29	33A1869-30	33A1868-46	
Disc, UHF Channel Indicator	21A305-5			21A308-1	
Handle	37A315-10				
Knob, Preference Controls (3 used)	33A1639-4	33A2265-2	33A2265-2	33A2265-1	
Knob, UHF Channel Selector	33A1973-5	33A2235-4	33A2235-4	33A2235-4	
Knob, UHF Fine Tuning	33A2068-2	33A2233-3	33A2233-3	33A2233-3	
Knob, VHF Channel Selector	33A2069-58	33A2235-3	33A2235-3	33A2235-5	
Knob, VHF Fine Tuning	33A2070-1	33A2233-2	33A2233-2	33A2233-2	
Insert, VHF Channel		23A2190-1	23A2190-1	23A2190-3	
	MODELS 12B854K,L	MODELS 12B858K,L	MODELS 12B868K		
Cabinet Front	33A367-56	33A367-53	34A367-59		
Cabinet Back	33A1868-45	33A1868-47	33A1868-47		
Disc, UHF Channel Indicator	21A308-2	21A308-2	21A308-2		
Knob, Preference Controls (3 used)	33A2265-4	33A2265-4	33A2265-4		
Knob, UHF Channel Selector	33A2235-6	33A2235-6	33A2235-6		
Knob, UHF Fine Tuning		33A2233-5	33A2233-5		
Knob, VHF Channel Selector	33A2235-7	33A2235-7	33A2235-7		
Knob, VHF Fine Tuning	33A2233-4	33A2233-4	33A2233-4		
Indicator, VHF Channel	23A2190-2				
Insert, VHF Channel Numbers			23A2190-2		

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17 KV)
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421 (Single-Conductor) 8208 (Two-Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8528 (Solid) Available in 13 Colors 8522 (Stranded) Available in 13 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

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.

PICTURE TUBE

ITEM No.	REPLACEMENT DATA			NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
# V301	12VCLP4 (1) or A31-320W 9VATP4 (2) or 9VASP4			(1) 12-inch chassis (2) 9-inch chassis

For SAFETY use only equivalent replacement part.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFGR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
CR301		93A8-1	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
CR302		93A60-5	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
CR401		93A64-1	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
CR402		93A60-6	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
CR403		93A52-1	GE-504A	PTC202	HEPR0054	RE 49	SK3313	RT-215	ECG116		WEP158	
CR501		93A60-6	GE-300(7)	PTC214M(6)	HEPR0602(7)	RE 52(7)	SK3100(7)	RT-218(7)	ECG177(7)	1N4007	WEP1060(7)	212-76
CR502		93A60-6										
CR504		93A60-6	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
CR601		93A52-1	GE-504A	PTC202	HEPR0054	RE 49	SK3313	RT-215	ECG116	1N4007	WEP158	212-76
CR602		93A60-7	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
IC201		56A9-1	GEIC-183		HEPC6060P	RE 331-IC	SK3236	TVCM-41	ECG748		WEP2026	
Q201		57A192-10	GE-12	PTC104	HEPS0011	RE 14	SK3021	RT-128	ECG124		WEP240	
Q301		57A139-4	GE-283	PTC121*	HEPS0020*	RE 28*	SK3117*	RT-187*	ECG233		WEP924	ZEN-127
Q302		57A138-4	GE-86*	PTC121*	HEPS0024*	RE 10*	SK3132*	RT-187*	ECG233		WEP736	121-722
Q304		57A191-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q305		57A172-8	GE-27		HEPS3019	RE 44	SK3103	RT-159A	ECG190		WEP749	800-256
		57A211-8	GE-27		HEPS3019	RE 44	SK3103	RT-159A	ECG190		WEP749	800-256
Q306		57A185-12	GE-82	PTC103	HEPS0019	RE 26	SK3466	RT-126A	ECG159		WEP62	
Q307		57A185-12	GE-82	PTC103	HEPS0019	RE 26	SK3466	RT-126A	ECG159		WEP62	
Q401		57A184-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q402		57A191-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q403		57A191-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q404		57A191-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q405		57A184-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q406		57A214-12	GE-226		HEPS5000	RE 80	SK3199	RT-186	ECG190		WEP749	
Q407		57A188-12	GE-69	PTC111	HEPS3055	RE 233	SK3083	RT-196	ECG292		WEP746	
Q501		57A191-12	GE-20	PTC121*	HEPS0015	RE 13	SK3444	RT-304*	ECG123A		WEP736	
Q502		57A185-12	GE-82	PTC103	HEPS0019	RE 26	SK3466	RT-126A	ECG159		WEP62	
Q503		57A213-11	GE-38	PTC129A	HEPS7006	RE 32	SK3115	RT-140	ECG165		WEP740B	800-764

* Lead configuration may vary from original.
(6) Matched pair.
(7) Two required - select matched pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C141	2.2 15V	67A201-229-7	PC2-100	VTT2R2A50	QV1-19	EV-1517
C209	10 25V	67A201-100-4	PC10-25	VTT10B25	QV1-43	EV-1322
C327	220 10V	67A200-221-2	PC250-10	VTT220F10	QV1-115	EV-1140
C333	2.2 50V		PC2-100	VTT2R2A50	QV1-19	EV-1517
	2.2 15V	67A201-229-7	PC2-100	VTT2R2A50	QV1-19	EV-1517
C335	10 25V	67A201-100-4	PC10-25	VTT10B25	QV1-43	EV-1322
C405	2.2 50V		PC2-100	VTT2R2A50	QV1-19	EV-1517
	2.2 15V	67A201-229-7	PC2-100	VTT2R2A50	QV1-19	EV-1517
C409	100 35V	67A201-101-6	PC100-50	VTT100K50	QV1-99	EV-1530
C411	22 35V	67A201-220-6	WBR25-50	VTT22G63	QV1-59	EV-1624
C413	220 25V	67A201-221-4	PC250-25	VTT220K25	QV1-119	EV-1340
C506	4.7 25V	67A201-479-4	PC5-50	VTT4R7B50	QV1-27	EV-1319
C511	4.7 25V	67A201-479-4	PC5-50	VTT4R7B50	QV1-27	EV-1319
C603A	250 165V	67A30-32		PPF318.87(1)		PCL-3454.8(1)
	150 150V					
C604	47 50V	67A201-470-7	PC50-50	VTT47J63	QV1-79	EV-1626
C606	470 35V	67A201-471-6	WBR500-35	VTT470M35	QV1-157	EV-1450

(1) Omit 200uF section.

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	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
# C100	470 1.4KV	65A10-392					
C101	470 1.4KV	65A10-392					
C140	.001 500V		DD-102		GP210		10TS-D10
	.0015 500V						
C202	120 NPO 50V 5%		DTZ-120		CN0312		10TCC-T12
C203	.1 50V			WMF05P1	EWFO5010		431P1049R5
C204	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C205	15 500V 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C206	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C207	.047 50V			DPMS2S47	EWFA147	QF1-171	1PB-S47
C208	.022 50V				M192P2239R8		192P2239R8
C210	.005 1.5KV	65A110-133					
C211	330 500V		DD-331	GP330	GP333		10TS-T33
C212	.005 1.5KV	65A110-133					
C213	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C301	20 NPO 500V 5%		DTZ-20	NP020	CN0420		10TCC-Q20
C302	15 NPO 50V 5%		DTZ-15	NP015	CN0415		10TCC-Q15
C303	15 NPO 50V 5%		DTZ-15	NP015	CN0415		10TCC-Q15
C309	.1 50V			WMF05P1	EWFO5010		431P1049R5
C310	.0012 500V 10%		DD-122		GP212		10TS-D12
C311	.0033 10%		DD-332	GP3300	GP233	QC2-107	5GA-D33
C313	39 NPO 500V 5%				CN0439		10TCC-Q39
C315	.001 500V 10%		DD-102		GP210		10TS-D10
C316	.0015 10%		DD-152		GP215		10TS-D15
C318	62 NPO 500V 5%			CD15ED620J03	SX462	QW1-22	MMA-620
C319	27 NPO 500V 5%				CN0427		10TCC-Q27
C320	560 N1500 500V 5%				CN15-356		10TCW-T56
C321	10 NPO +.25	65A402-100-1	DTX-561				
C322	.0033 10%		DD-332	GP3300	GP233	QC2-107	5GA-D33
C323	15 NPO 500V +.25	65A402-150-1					
C325	220 50V		DD-221		GP322		10TS-T22
C326	460 50V 5%	65A80-8					
C328	820 500V 10%		DD-B21	GP820	GP382		10TS-T82
C329	.0027 500V 10%				GP227		10TS-D27
C330	.22 200V			DPMS6P22	EWFO22		6PS-P22
C401	.033 50V 10%				M192P3339R8		192P3339R8
C402	.0015 500V		DD-152		GP215		10TS-D15
C403	.22 50V			DPMS6P22	EWFO22		6PS-P22
C404	.22 50V 10%			DPMS6P22	EWFO22		6PS-P22
C406	.015 50V 10%				M192P1539R8		192P1539R8
C407	.001 50V		DD-102		GP210		10TS-D10
C408	560 500V 10%		DD-561		GP356		10TS-T56
C410	.1 50V 10%			WMF05P1	EWFO5010		431P1049R5
C412	.15 50V 10%			WMF05P15	EWFO5015		431P1549R5
C417	.022 50V				M192P2239R8		192P2239R8
C418	.0022 50V				GP222		10TS-D22
C419	.047 50V 10%			DPMS2S47	EWFA147	QF1-171	1PB-S47
C421	.1 50V			WMF05P1	EWFO5010		431P1049R5
C422	.015 50V 10%				M192P1539R8		192P1539R8
C501	.0012 200V 10%		DD-122		GP212		10TS-D12
C502	.001 50V 10%		DD-102		GP210		10TS-D10
C503	.022 50V 10%				M192P2239R8		192P2239R8
C504	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C505	.033 50V				M192P3339R8		192P3339R8
C507	.01 200V			DPMS4S1	ENF2110		2PB-S10
C508	.015 50V 10%				EWFA1110		192P1539R8
C509	.033 50V 10%				M192P3339R8		192P3339R8
# C512	680 N2200 2KV 10%	65A110-453			*		
	820 N2200 2KV 10%	65A110-452(1)			*		
C513	680 N2200 2KV 10%	65A110-453					
	820 N2200 2KV 10%	65A110-452(1)					
C514	.1 200V 10%			DPMS2P1	EWFA1110		2PB-P10
C516	.01 50V		UK50-103		MAG5011		192P2239R8
C517	.022 50V				M192P2239R8	QF1-91	1PB-S10
C518	.01 50V			WMF1S1	EWFA1110		
# C601	.22 125VAC	63A100-9					
C602	.001 1KV		DD-102		GP210		10TS-D10
C605	.1 50V			WMF05P1	EWFO5010		431P1049R5

For SAFETY use only equivalent replacement part.

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

(1) Used in 9" CRT models.

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				
			75D1-225(5)				
# R326	Contrast	500	75A1-211				
			75D1-211(5)				
# R333	Brightness	100K	75A1-212				
			75D1-212(5)				
R339	AGC Delay	400	75A101-68	T-500	C-501	MTC52L1	X201R501B
			75D101-68(5)				
# R407	Vert Hold	1.2Meg	75A191-3				
			75D191-3(5)				
R411	Vert Size	2Meg	75A101-61	T-2Meg		MTC26L1	X201R26L1
			75D101-61(5)				

For SAFETY use only equivalent replacement part.

(5) Number on unit.

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		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
# R209	330 10% 1/2W Carbon	CA-330	60A74-331	# R521	1200 10% 1/2W Carbon	CA-1200	60A74-122
# R420	560 5% 1/4 Carbon	CD-560		# R603	100 10% 7W WW		61A107-101
	560 10% 1/4W Carbon	CD-560	60A103-560	# R604	100 10% 7W WW		61A107-101
# R514	47 10% 2W Film		61A162-470	# R607	120 5% 5W WW		61A105-121
# R520	1200 10% 1/2W Carbon	CA-1200	60A74-122	# R614	22 5% 1/2W Carbon	CA-22	60A105-222
				# R615	12 10% 1/2W Carbon	CA-1200	
					12 5% 1/2W Carbon	CA-12	

For SAFETY use only equivalent replacement part.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L201	Sound Input IF	72A317-11			
L202	Quadrature	72A317-6		SI-1049	
L301	Video Input IF	72A415-8			
L302	47.25 MHz Trap	72A415-5			
L303	Video IF	72A415-5			
L305	Video IF	72A316-4		49A167MPC	
L306	Video IF	72A316-8		49A537MPC	
L307	RF Choke	73A31-19		4622	
L310	4.5MHz Trap	72A317-9			
L311	Peaking (150uH)	73A55-13		72F154AP	
L312	Peaking (560uH)	73A55-25		6144	

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 Lock (Hold)	94A480-3	94C480-3			
	Shaft	33A1213-10				
# T401	Yoke Horiz 7.45mH	94A372-10	94C372-10			
	90° Vert 22.3mH					
	Alternate	94A372-9 (1)				
T501	Horiz Driver	72A417-5	72C417-5			
# T503	Horiz Output	79A166-12	79D166-12			

For SAFETY use only equivalent replacement part.

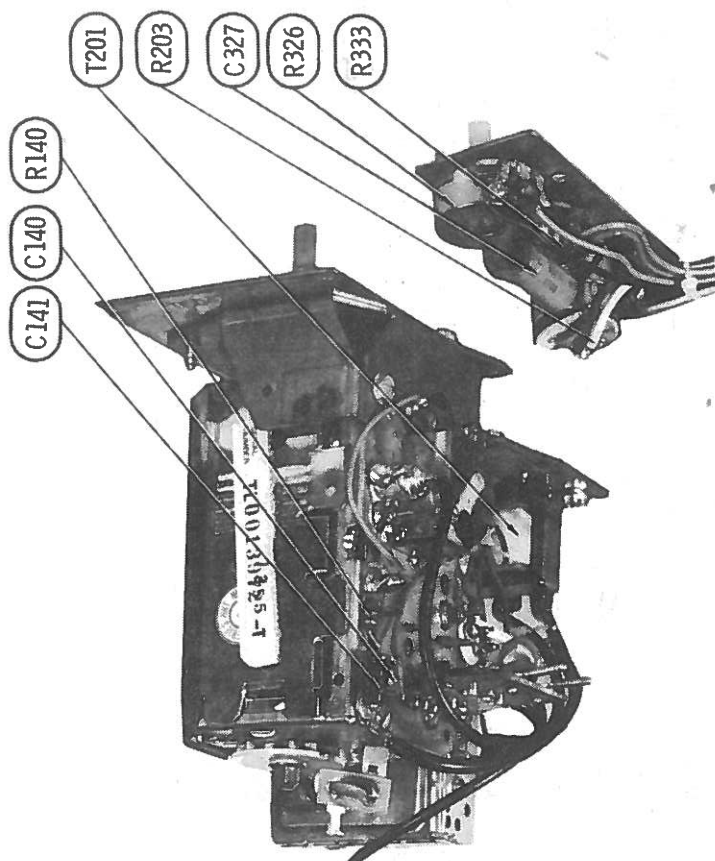
(1) Used in 9-inch chassis.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T201	11,500	3.2	79A124-12 79D124-12(1)			# For SAFETY use only equivalent replacement part. (1) Number on unit.

SPEAKER

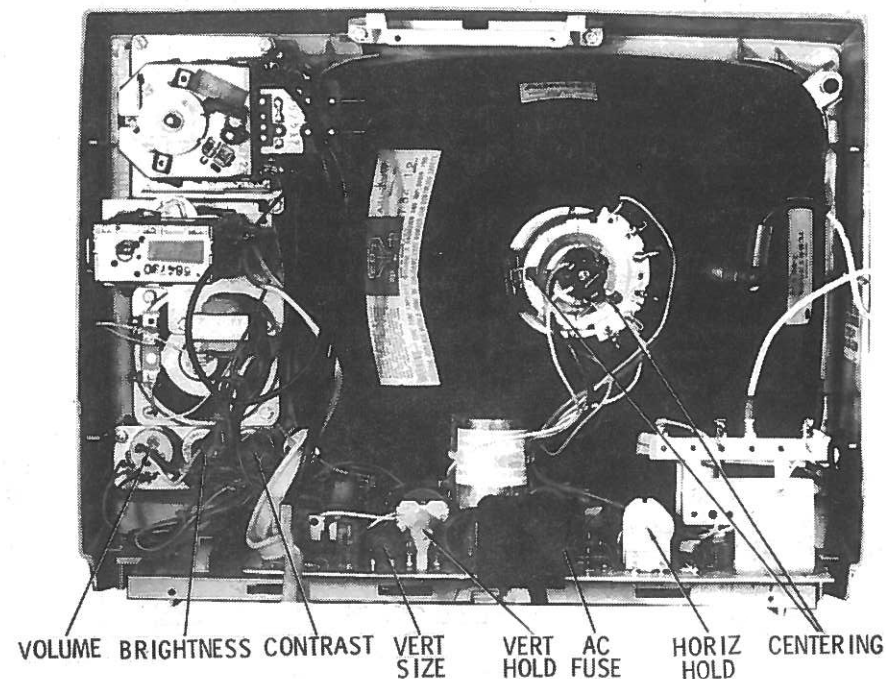
ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP201	3" PM 3.2 ohms	78A211-2	30A05	



TUNER ASSEMBLY

ADMIRAL CHASSIS
T1L7-T2L7-T5L7-1A/-2A

FOLDER 1



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove seven screws holding cabinet back. Disconnect antenna leads while lifting back from set. Remove all knobs from cabinet front.

Loosen and remove deflection yoke from CRT. Disconnect CRT socket, HV anode lead, speaker wires, and ground wires. Remove four screws holding tuner assembly and two screws holding front panel control bracket. Remove one screw from cabinet bottom holding main PC board. Remove main PC board and control assemblies from cabinet.

CRT REMOVAL

Follow "Chassis Removal" procedure and lay set face down on a soft protective surface. Remove four screws holding CRT and lift CRT from cabinet. Do not lift CRT by the neck.

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 Placement Chart.)

VHF TUNER

The fine tuning mechanically engages oscillator slug for adjustment (one slug for each channel).

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. (See Placement Chart.)

CENTERING

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