

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 2-amp fuse is used for AC line protection. (See Photo, Cabinet - Rear View.)

A 3/4-amp fuse is used for low-voltage power supply 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 Lock Control. (See photo, Cabinet - Rear View.)

FOCUS

The focus may be varied by a focus control. (See photo, Cabinet - Rear View.)

AGC

The AGC may be varied by an AGC Delay Control. (See Placement Chart.)

SET 1768 FOLDER 1

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D, 7M46-1D/-2D

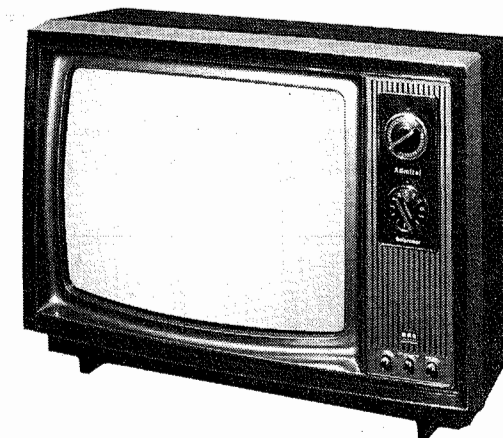
PHOTOFACT® Folder

with CIRCUITRACE®

For Supplier Address See PHOTOFACT Index

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D, 7M46-1D/-2D

COLOR TV



MODEL SKC1701

MODEL

13C8018
13C8018M
SKC1301
SKC1301M
SKC1701
SKC1701M
Covering Run 10

CHASSIS

3M46-1D
3M46-2D
3M46-1B1
3M46-2B1
7M46-1D
7M46-2D

SAFETY PRECAUTIONS

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See Page 24.

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10 9 8 7 6 5 4 3 2 1

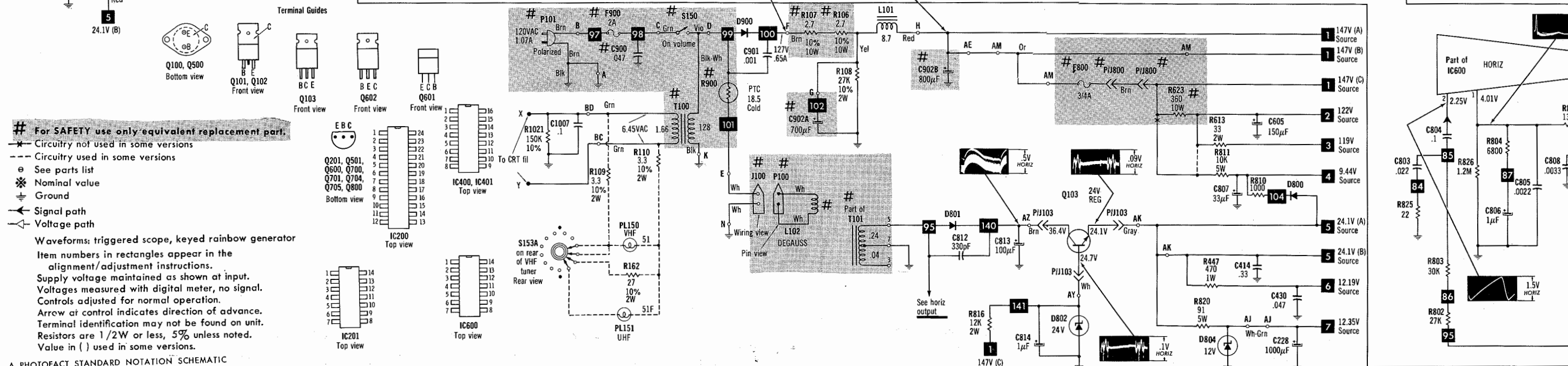
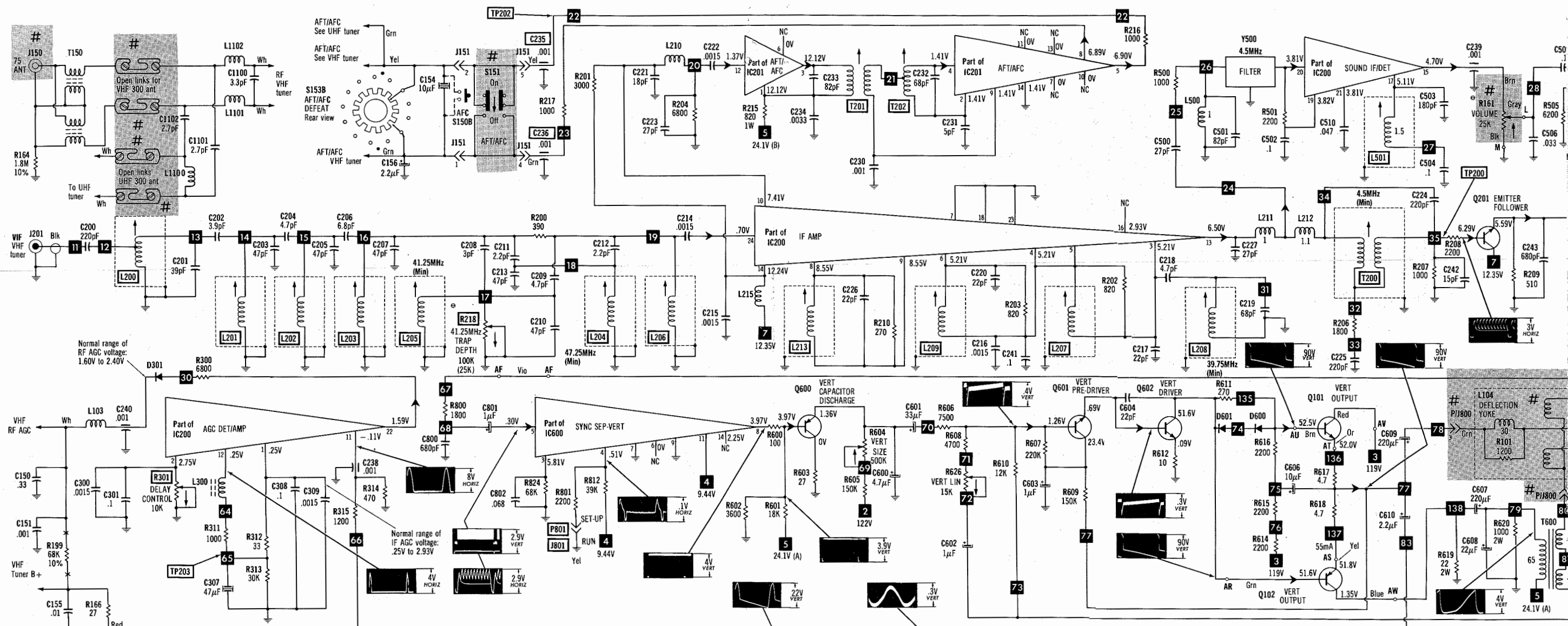
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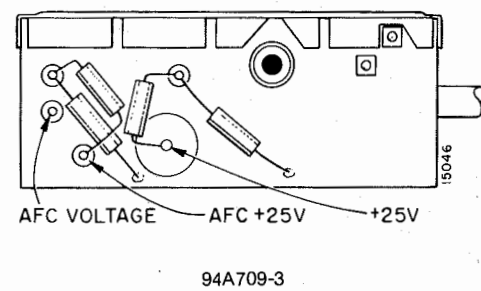
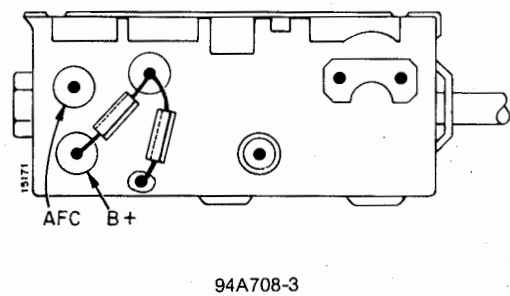
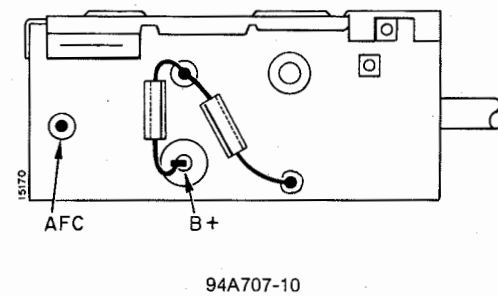
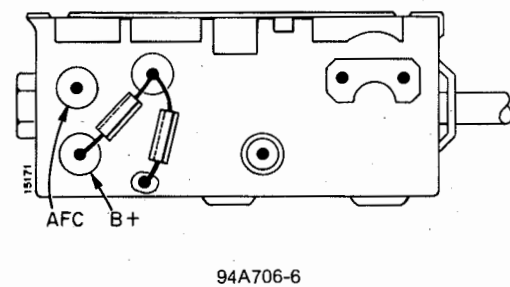
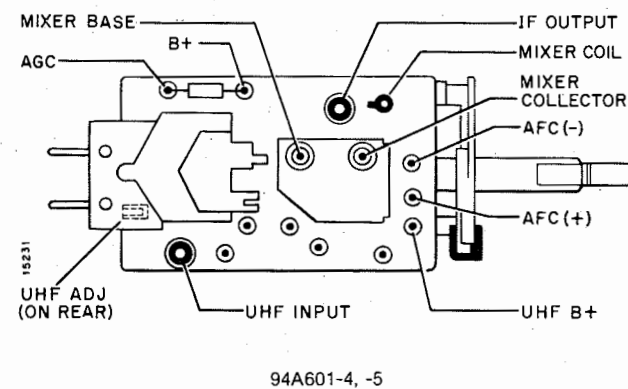
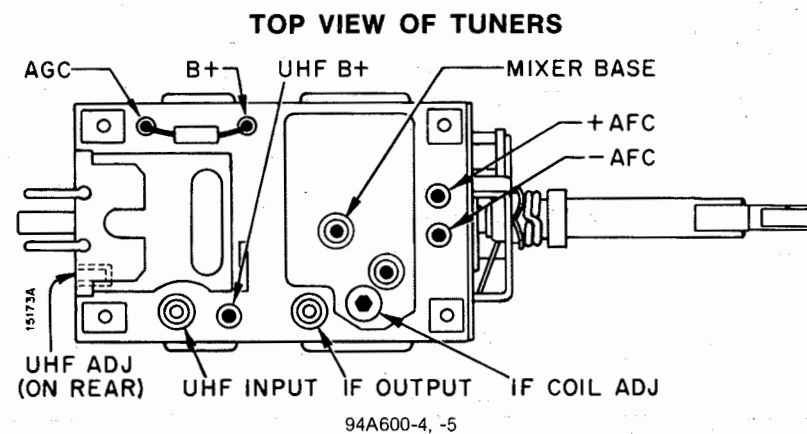
DATE 10-78

SET 1768 FOLDER 1

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D, 7M46-1D/-2D

SET 1768 FOLDER 1





Top View of VHF and UHF Tuners

Courtesy of the Manufacturer

DISASSEMBLY INSTRUCTIONS

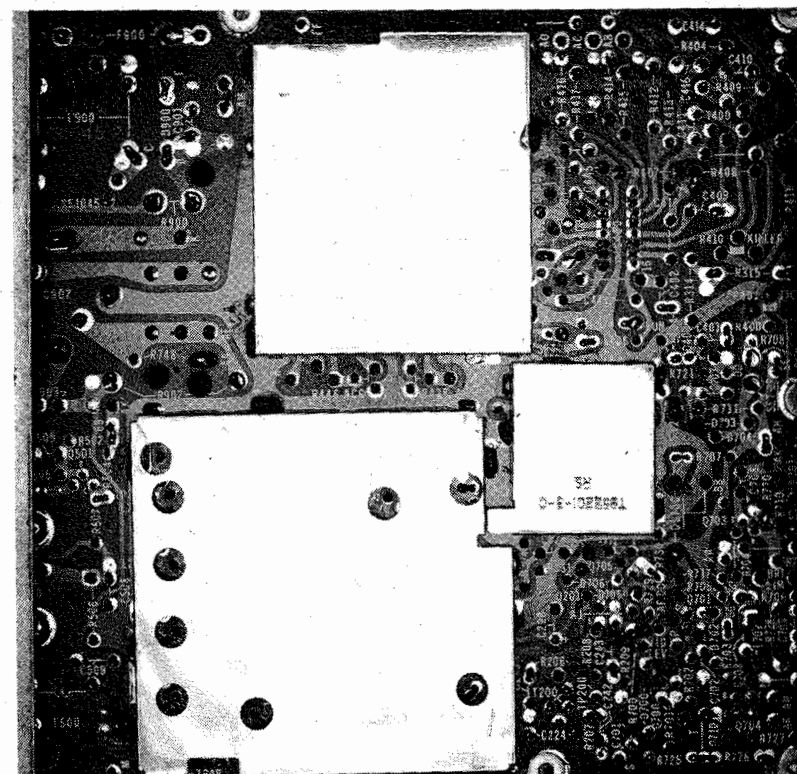
Chassis Removal

Remove all knobs and disconnect antenna leads. Remove ten screws holding cabinet back and lift cabinet back from set. Remove four screws holding tuner assembly and two screws holding lower control bracket.

Disconnect CRT socket, HV anode lead, deflection yoke plug, degaussing coil plug, speaker wires and ground wires. Lay set facedown on a soft protective surface. Remove six screws holding chassis to cabinet bottom and lift chassis and control assemblies from cabinet.

CRT REMOVAL

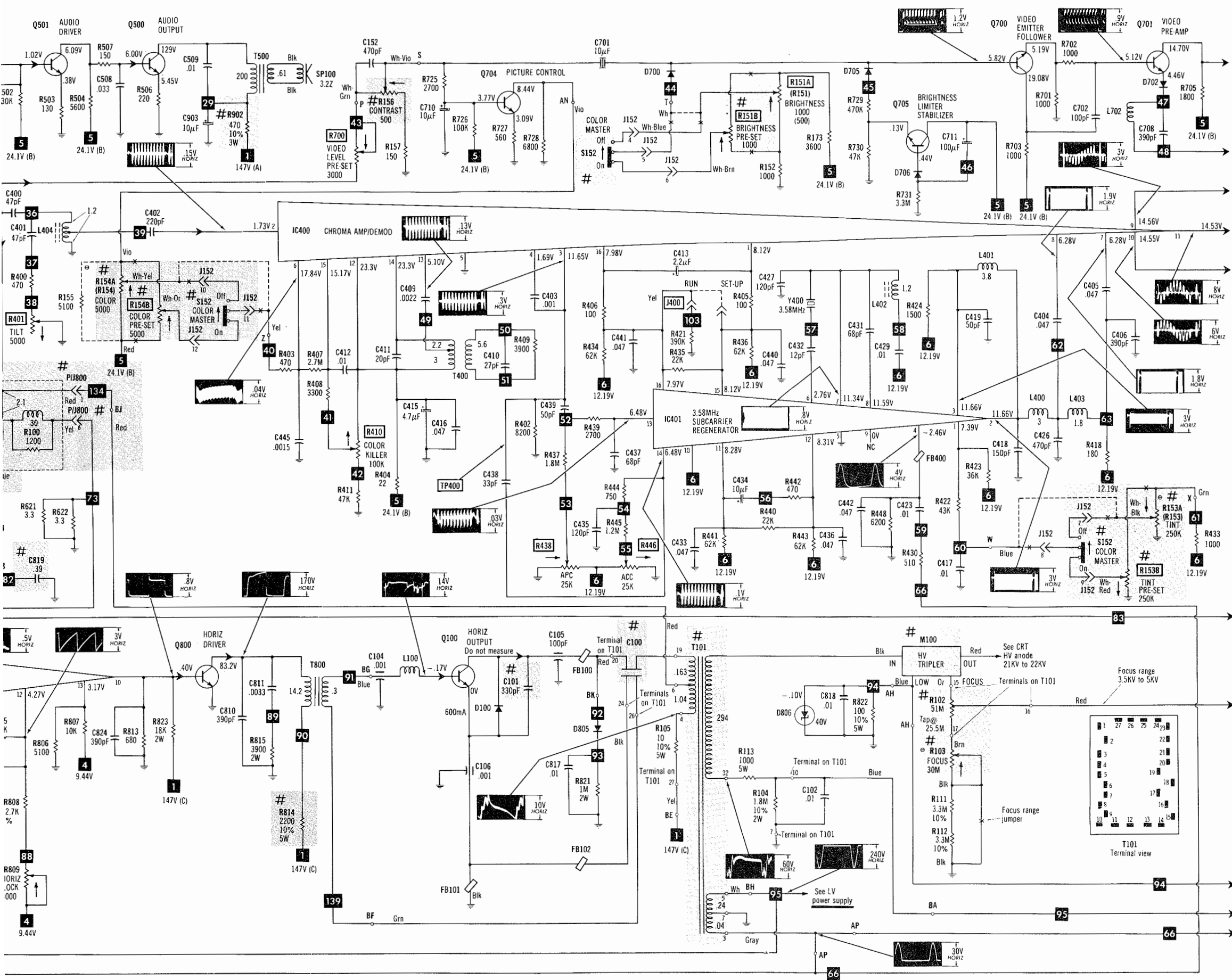
Follow "Chassis Removal" procedure. Remove four screws holding degaussing shield and lift shield from cabinet. Do not remove deflection yoke it is permanently bonded to CRT. Remove eight screws holding CRT and lift CRT from cabinet. Do not lift CRT by the neck.



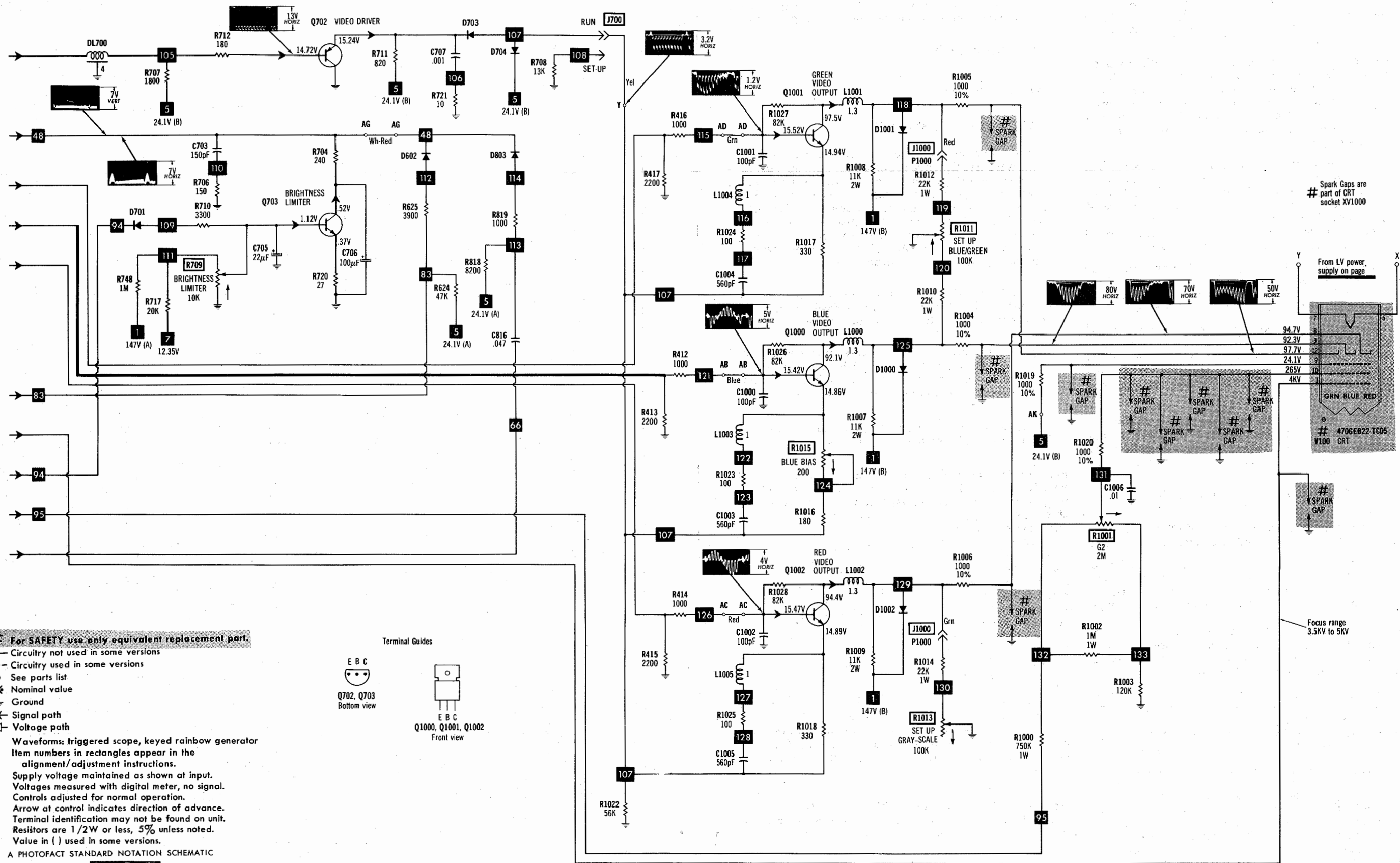
M200 SIGNAL-POWER SUPPLY BOARD-SHIELD LOCATION

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D, 7M46-1D/-2D

FOLDER 1



ADAMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D,7M46-1D/-2D



For SAFETY use only equivalent replacement part.

- Circuitry not used in some versions
- - - Circuitry used in some versions
- e See parts list
- * Nominal value
- ⊥ Ground
- Signal path
- ⚡ Voltage path

Waveforms: triggered scope, keyed rainbow generator
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates direction of advance.
Terminal identification may not be found on unit.
Resistors are 1/2W or less, 5% unless noted.
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

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Terminal Guides



Q702, Q703
Bottom view



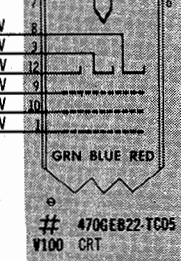
Q1000, Q1001, Q1002
Front view

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D/7M46-1D/-2D

FOLDER 1

Spark Gaps are part of CRT socket XV1000

From LV power, supply on page



Focus range 3.5KV to 5KV

SAFETY PRECAUTIONS

IMPORTANT PRODUCT SAFETY INFORMATION

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

3M46/7M46 23.5KV \pm 1.5KV

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.

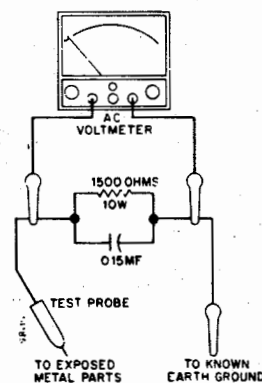
SAFETY INSPECTION

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

PROTECT YOUR CUSTOMER

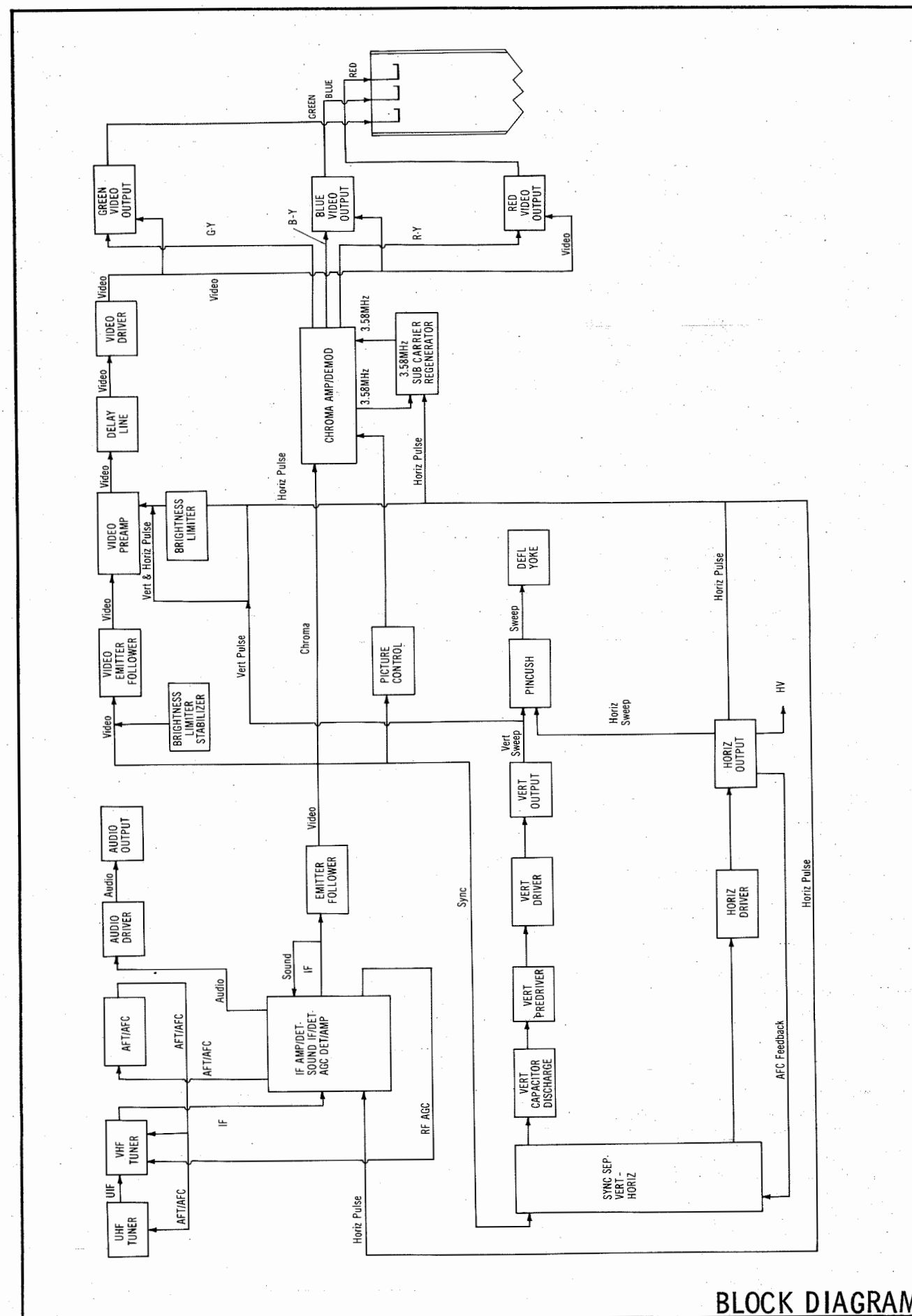
1. Some leads in the receiver have been secured with wire ties that are required for safe operation and/or correct performance. If any ties are removed for servicing, it is mandatory that the ties are replaced to secure the leads as originally manufactured. Non-reusable ties should be replaced with approved Part No. 50A102-1 for bead chain type or 50A13-1 for solid types. Do not replace with any 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.



ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D/7M46-1D/-2D

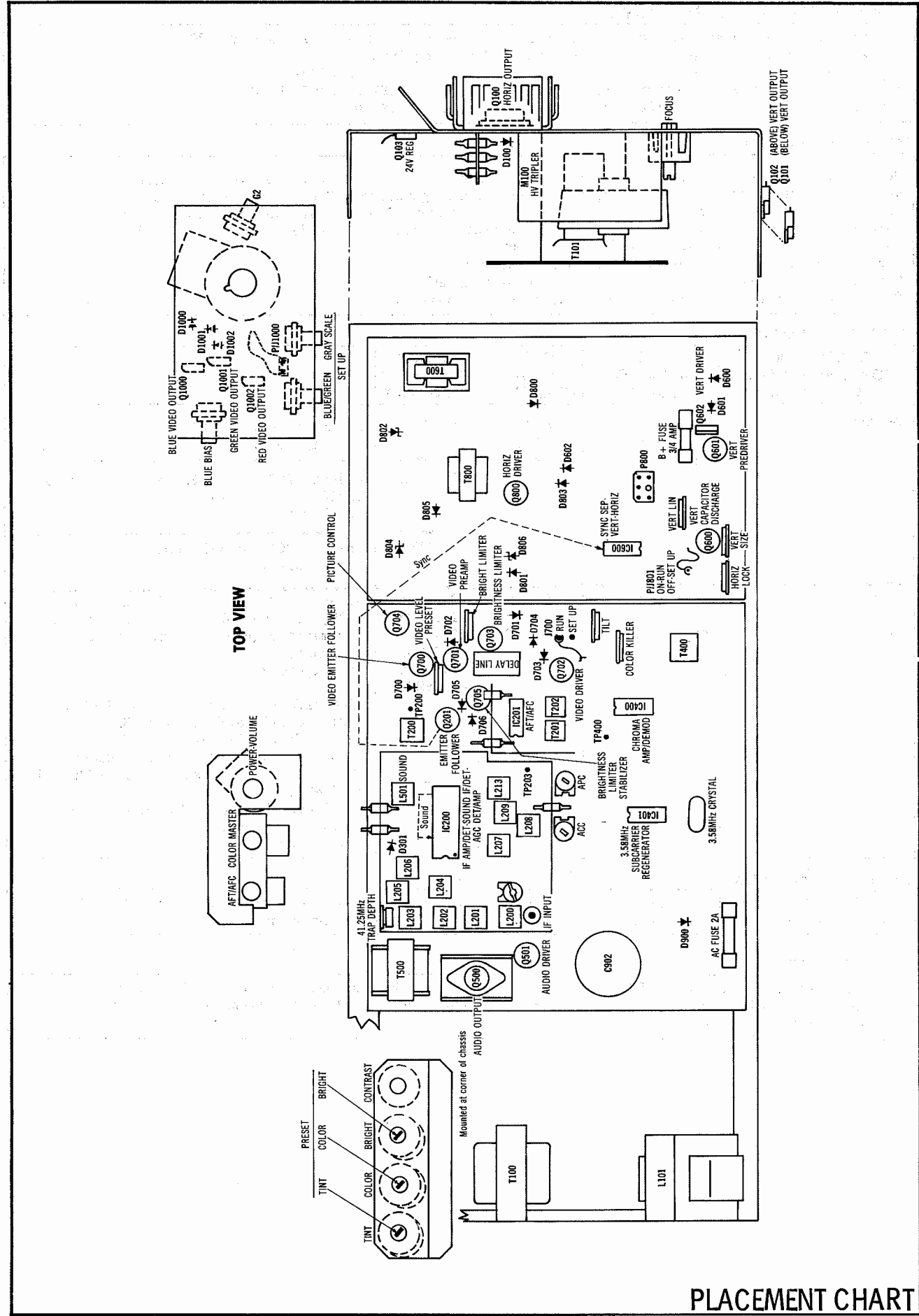
FOLDER 1

RESISTANCE MEASUREMENTS

MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS

MEASUREMENTS BELOW TAKEN WITH PRECISION														
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
V100	40M	NC	11K	NC	NC	FIL	FIL	11K	1500	700K	NC	11K(1)	NC	
IC200	30K	800	4300	4300	4300	4300	0	1900	1900	2400	340	31K	1000	620
					PIN 15 3900	PIN 16 INF	PIN 17 12K	PIN 18 0	PIN 19 13K	PIN 20 15K	PIN 21 13K	PIN 22 5700	PIN 23 0	PIN 24 9070
IC201	1370	INF	1370	INF	9570	INF	INF	9570	INF	INF	INF	INF	INF	0
IC400	35K	2440	8200	37K	0	2500	INF	INF	2150	2160	2170	560	7200	560
													PIN 15 35K	PIN 16 33K
IC401	8260	1100	1100	6100	0	4850	1430	1440	INF	950	37K	37K	730K	730K
													PIN 15 35K	PIN 16 33K
IC600	132K	9300	68K	2100	INF	INF	0	3180	0	660	2500	17K	3680	9200
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q100	0	.6	4000(1)		Q600	300K(1)	3080	27		Q704	560	3080	2000	
Q101	380K	11K(1)	4000(1)		Q601	INF(2)	11K	150K		Q705	47K	INF(2)	540	
Q102	380K	11K(1)	22		Q602	10	INF(2)	10K(1)		Q800	0	660	5000(1)	
Q103	540	16K	INF(2)		Q700	1000	INF(2)	1540		Q1000	56K	3100	10K(1)	
Q201	350	3200	617		Q701	INF(2)	2000	1440		Q1001	56K	3100	10K(1)	
Q500	220	6400	5000(1)		Q702	1375	1610	0		Q1002	56K	3100	10K(1)	
Q501	130	6000	6200		Q703	27	5140	INF(2)						

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



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
T201, T202, VHF Tuner IF Output Coil9296, 9297, 9300
L200 thru L209, L213, L501, T2009440

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.
Use an isolation transformer for 120 volt AC source.
Connect a +2.9 volt bias to TP203. (Junction of R312 and R313.)
Place AGC Delay Control (R301) to Maximum clockwise position.

VIDEO IF ALIGNMENT

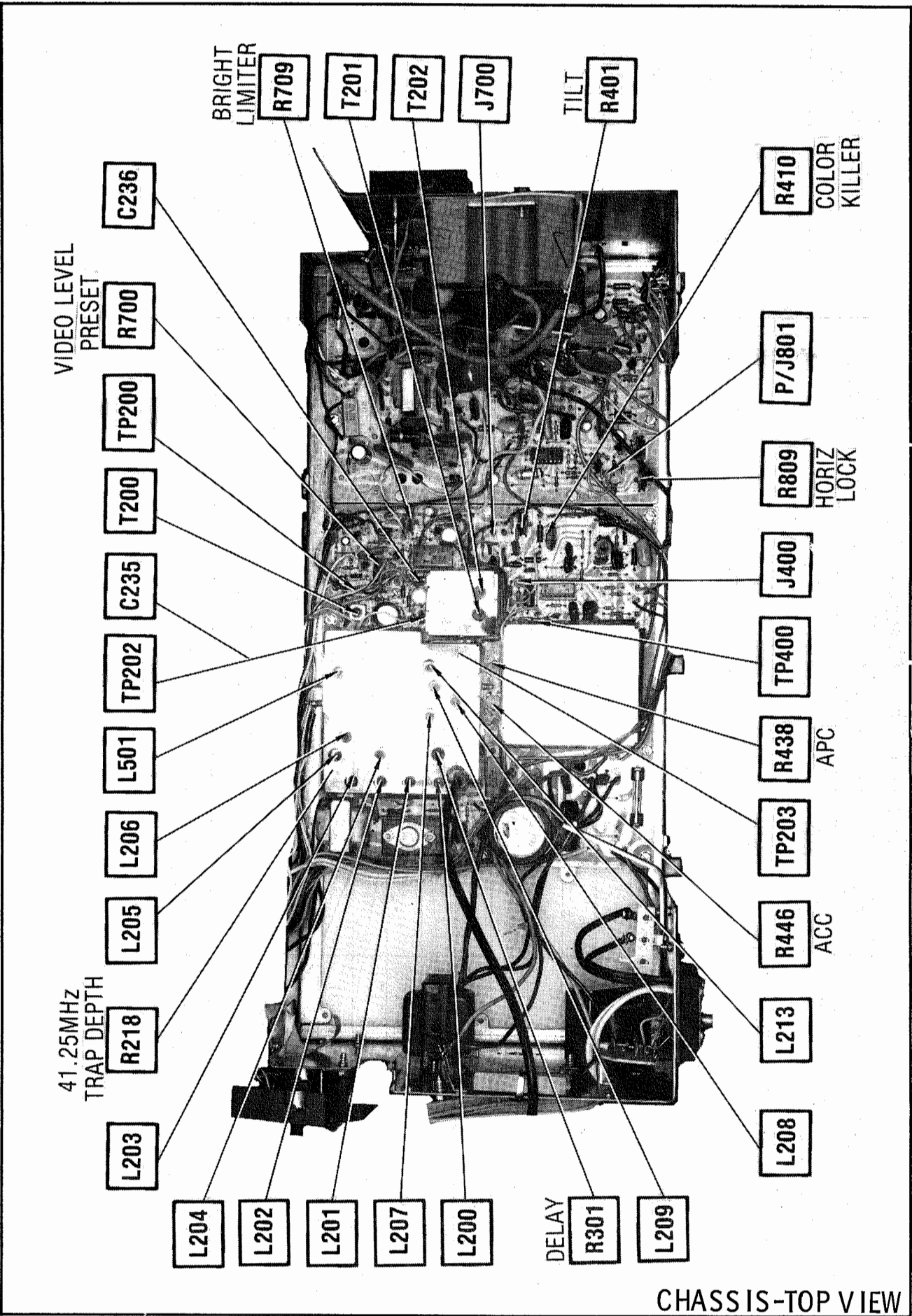
DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP200	To Mixer base test point on VHF tuner.	44MHz (10MHz Sweep)	39.75MHz	Adjust L208 for MINIMUM. See Figure 1.
			41.25MHz	Adjust L205 and 41.25MHz Trap Control (R218) for MINIMUM. See Figure 1.
			47.25MHz	Adjust L204 for MINIMUM. See Figure 1.
To TP200	To Mixer base test point on VHF tuner.	44MHz (10MHz Sweep)	39.75MHz 41.25MHz 42.17MHz 44.00MHz 45.75MHz 47.25MHz	Adjust L200,L201,L202,L203,L206,L207, L209,L213 and VHF Tuner IF Output Coil for maximum gain and symmetry of response. See Figure 2. L200 affects 44.00MHz and 45.75MHz. L201 and L202 affect 44.00MHz. L203 affects tilt at 44.00MHz. L206 affects 42.17MHz and 44.00MHz. L207,L209 and L213 affect 42.17MHz and 45.75MHz. VHF Tuner IF Output Coil affects overall response. See Figure 2.

4.5MHz TRAP ALIGNMENT

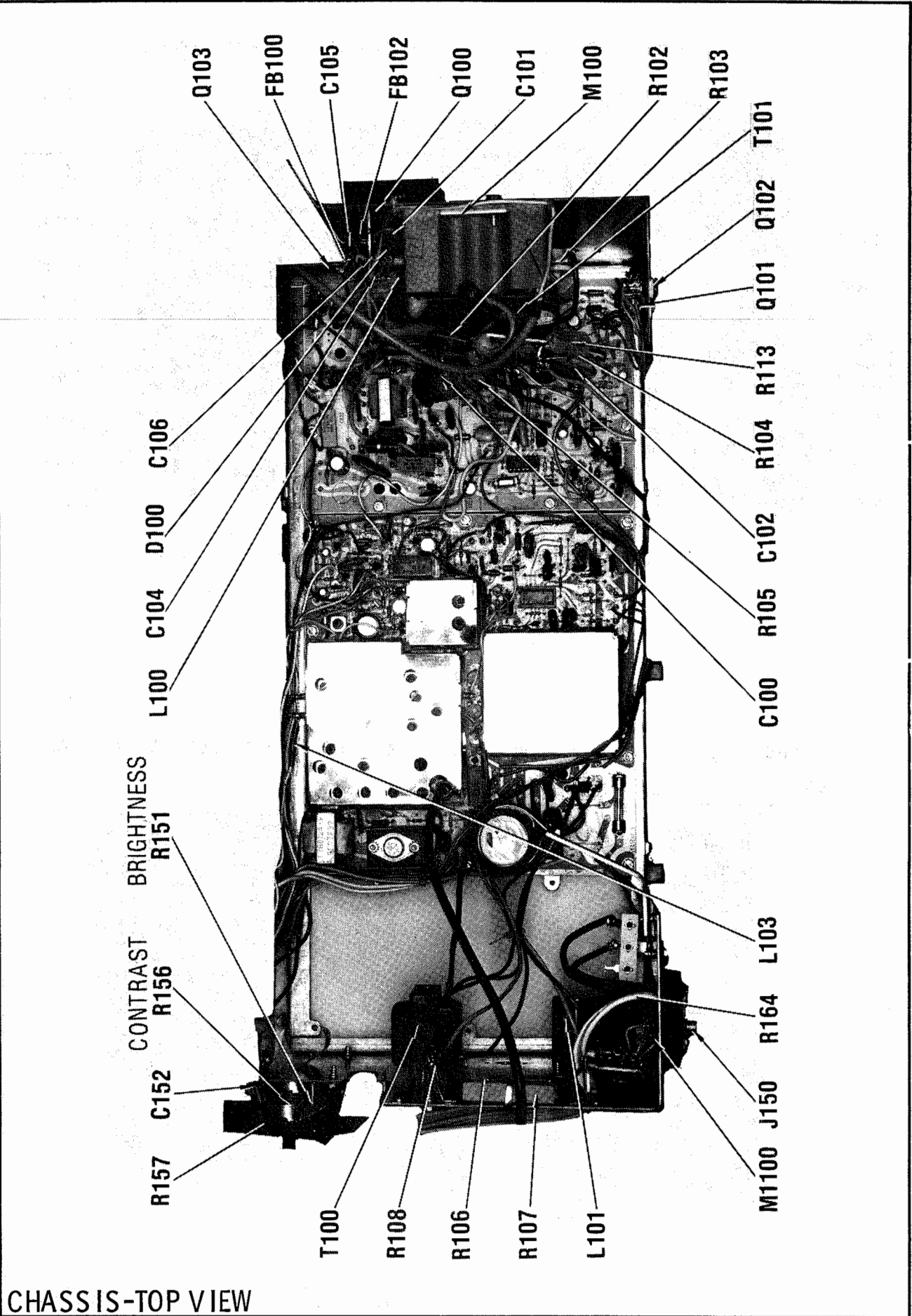
Tune in a strong TV signal and set the contrast at maximum. Adjust the fine tuning until a beat pattern is visible on the screen. Adjust T200 for MINIMUM beat interference.

SOUND IF ALIGNMENT

Tune in a station and adjust L501 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 L501.



ADMIRAL CHASSIS 1
3M46-1B1/-1D/-2B1/2D,7M46-1D/-2D



CHASSIS-TOP VIEW

TV ALIGNMENT INSTRUCTIONS (Continued)

AUTOMATIC FINE TUNING ALIGNMENT

Connect as explained in preliminary instructions unless specified otherwise. Unsolder the yellow lead from C235 and green lead from C236 AFC shield.				
DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP202 (C235)	To Mixer Base on VHF Tuner	44.00MHz (10MHz Sweep)	45.75MHz	Adjust T201 and T202 for maximum gain and symmetry of response. Adjust T202 for placement of 45.75MHz marker. See Figure 3.
Resolder yellow Lead to C235 and green Lead to C236.				

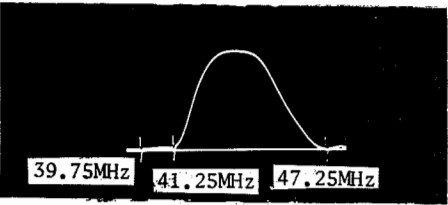


FIGURE 1

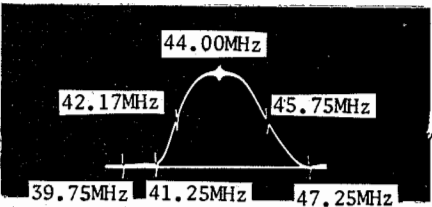


FIGURE 2

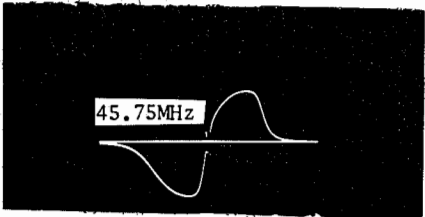


FIGURE 3

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D,7M46-1D/-2D

FOLDER 1

MISCELLANEOUS ADJUSTMENTS

HIGH VOLTAGE CHECK

Turn Brightness and Contrast Controls to MINIMUM. Place Color Master Switch (S152) to "Off" position. Connect a high voltage meter to picture tube anode. High voltage should read 23.5KV \pm 1.5KV with 120 volts AC line.

HORIZ LOCK ADJUSTMENT

Disconnect jumper J801 from P801. This will cause horizontal and vertical drift. Disregard vertical drift. Adjust Horizontal Lock Control (R809) until the picture locks in or slowly floats across the screen. Reconnect jumper J801 to P801 and check all available channels for lock-in.

AGC DELAY

Tune in a weak station and properly fine tune the receiver.

Rotate AGC Delay Control (R301) counterclockwise until snow appears in the picture, and then turn R301 clockwise until the snow just disappears. Check all channels for proper picture. If overloading occurs, turn AGC Delay Control (R301) slightly clockwise until overloading is corrected.

VIDEO LEVEL PRESET

The "Black And White Tracking" should be checked and performed, if necessary, before setting the video level.

Connect a color-bar generator to the antenna terminals. Allow receiver and generator 10 minutes to warm up.

Set generator to horizontal lines. Turn the Contrast Control to maximum and adjust Brightness Control for a white line on a black background.

Adjust Video Level Preset Control (R700) until the horizontal lines bloom and go out of focus. Then, adjust R700 in the opposite direction until the lines just come out of blooming.

BLACK AND WHITE TRACKING

Tune in a station and adjust Color Control to MINIMUM. Adjust Blue Bias Control (R1015), Set-up Control (R1011), and G2 Control (R1001) to midrange. Turn Set-up Control (R1013) to maximum.

Move Run/Set-up Jumper (J700) to Set-up position. Adjust G2 Control (R1001) for a dim raster. Adjust Set-up Control (R1011) to obtain best cyan (Blue-Green). At the point where best cyan is obtained, the raster will dim. If the raster dims too much, increase the setting of G2 Control (R1001).

NOTE: If any red is noticed, remove and rotate Connector (J1000) 180 degrees. Readjust Set-up Control (R1011) for best magenta (Blue-Red).

Adjust Set-up Control (R1013) for best Gray raster. Reduce G2 Control (R1001) until raster is just extinguished.

Move Run/Set-up jumper (J700) to Run position. Observe screen while rotating Brightness Control from MINIMUM to maximum. A slight touchup of Blue Bias Control (R1015) may be necessary for a good black-and-white picture.

CHROMA ADJUSTMENTS

Set APC Control (R438) and ACC Control (R446) to the center of their range. Set Tilt Control (R401) fully clockwise. Set Color Killer Control (R410) fully counterclockwise. Connect a color-bar generator to the antenna terminals and tune in a color-bar pattern. Set Tint Control to midrange and Color Control to maximum. Fine tune receiver out of Color to produce a loss of Color sync. Adjust APC Control (R438) until color locks in or slowly floats.

Move jumper J400 to Set-up position. Connect a DC voltmeter to test point TP400 (Pin 3 of IC400). Measure and record this voltage (about 17 to 21 volts). Remove jumper J400 from Set-up position and adjust ACC Control (R446) for the same voltage as recorded previously at TP400. Return jumper J400 to Run position.

Correctly tune in Color bars and set Color Control to midrange. Adjust Tilt Control (R401) for best registration of color bars. Set receiver to an unused UHF station and turn Color Control to maximum. Adjust Color Killer Control (R410) until colored snow just disappears. Tune in a color station and check color lock and operation of Color and Tint Controls.

PURITY ADJUSTMENTS

If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets.

Adjust Blue Bias Control (R1015), Set-up Controls (R1011 and R1013), and G2 Control (R1001) to obtain a green raster.

Slide yoke back until a green vertical band appears. Adjust the Purity Tabs until the green vertical band is centered on the screen. Slide the yoke slowly forward until a pure green raster is obtained over the entire screen.

"Convergence Adjustments" and "Black And White Tracking" should now be performed.

BRIGHTNESS LIMITER ADJUSTMENT

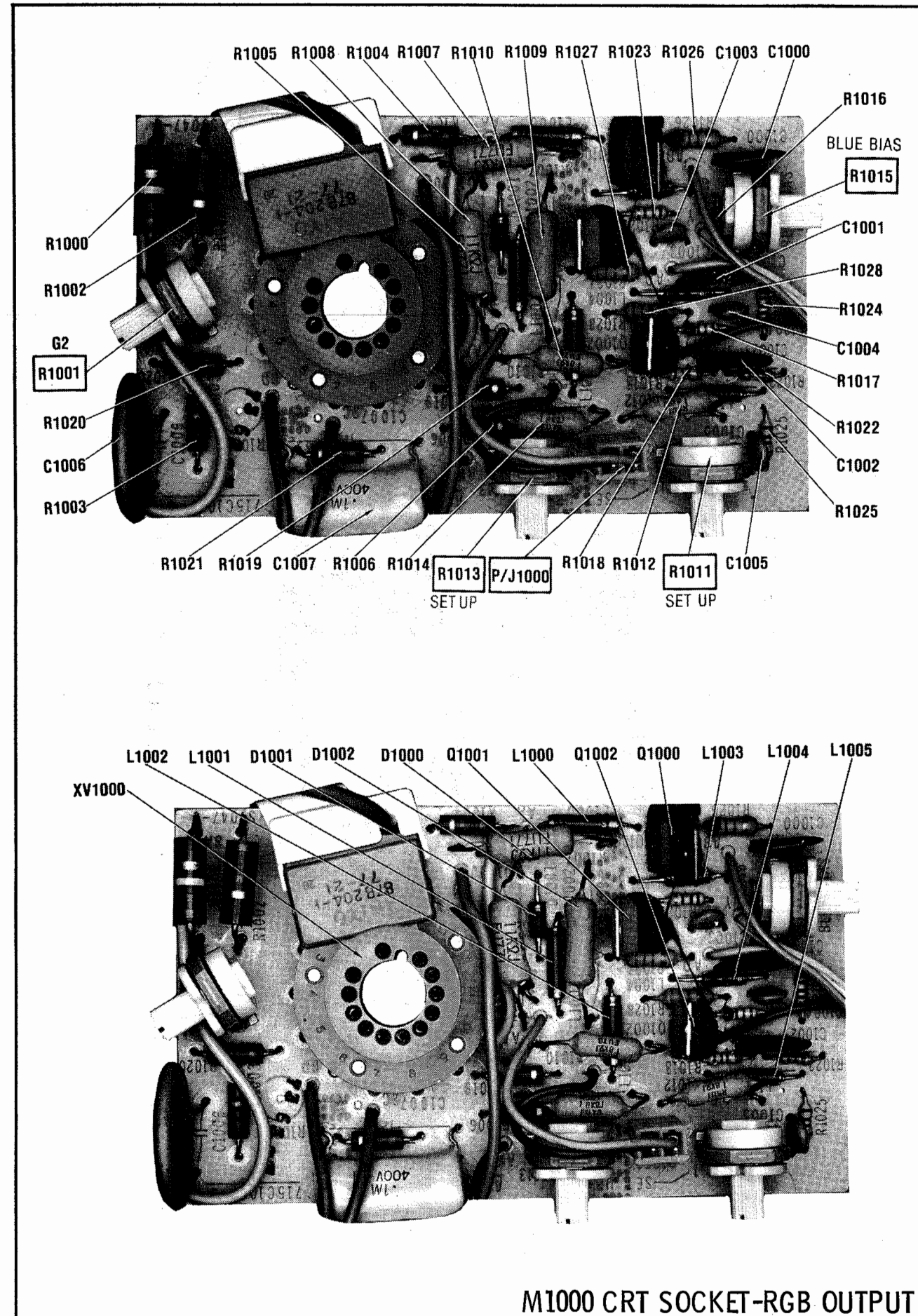
The "Black And White Tracking" and "Video Pre-set" Adjustments should be checked and made, if necessary, before setting the Brightness Limiter Control (R709).

Place Color Master Switch (S152) to Off (out) position. Connect a Color-Bar Generator to the antenna terminals and tune in a crosshatch pattern. Allow receiver to warm-up at least 15 minutes.

Turn the Brightness and Contrast to maximum and the Color Control to MINIMUM.

Turn the Brightness Limiter Control (R709) clockwise (as viewed from rear of receiver) until the crosshatch lines bloom and go out of focus. Back off to a point just below the out of focus condition.

Adjust Focus Control (R103) for best focus.

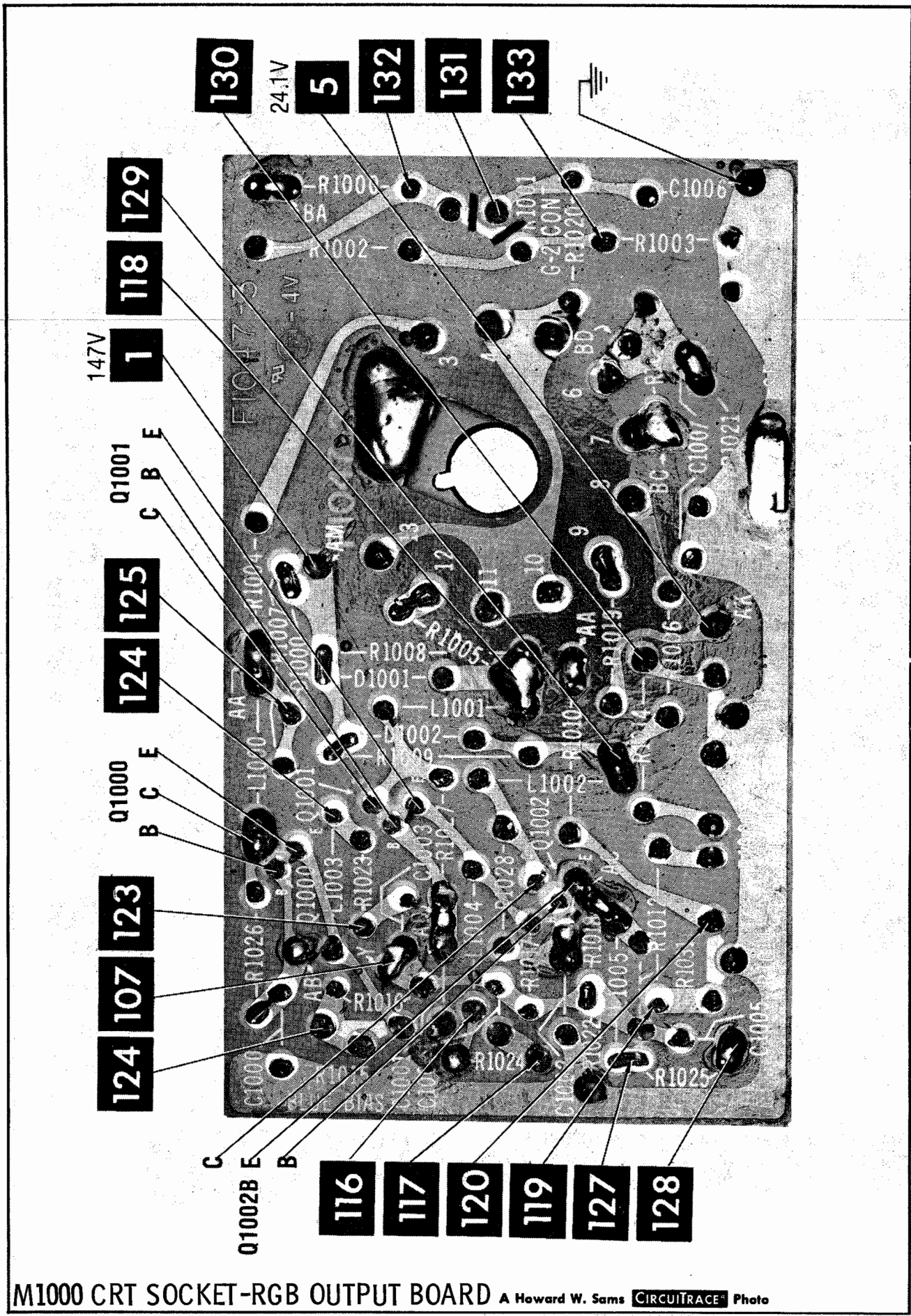


M1000 CRT SOCKET-RGB OUTPUT

3M46-1B1-1D/-2B1/2D/7M46-1D/-2D

ADMIRAL CHASSIS

FOLDER 1



MISCELLANEOUS ADJUSTMENTS (Continued)

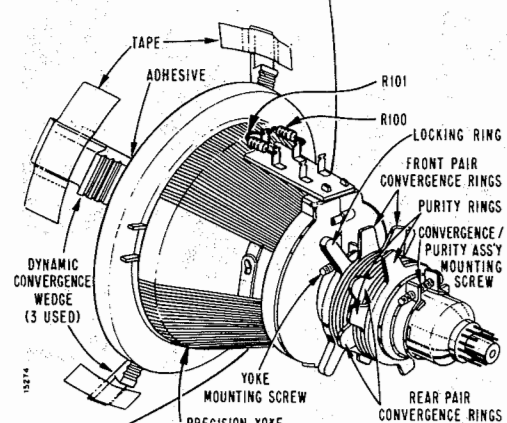
CONVERGENCE ADJUSTMENTS

Connect a color-bar generator to the antenna terminals and tune in a dot pattern. Adjust Four-Pole Convergence Magnets to converge the red and blue dots at the center of the screen. Adjust Six-Pole Convergence Magnets to converge the red/blue dots over the green dots at the center of the screen. Tune in a crosshatch pattern. Remove the rubber wedges between the deflection yoke and picture tube. Tilt the deflection yoke up or down to converge the vertical lines at the top and bottom of the screen and the horizontal lines at the right and left sides of the screen. Tilt the deflection yoke to the right or left to converge the horizontal lines at the top and bottom of

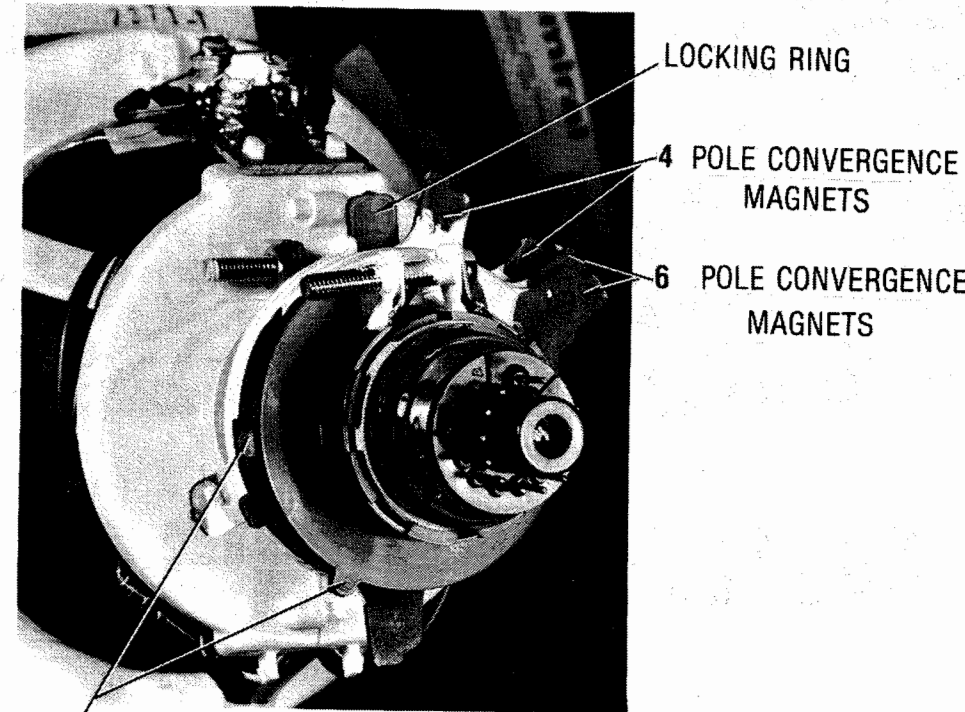
the screen and the vertical lines at the right and left sides of the screen. Repeat convergence procedure if necessary to obtain the best overall convergence. Replace the rubber wedges.

PRESET CONTROL ADJUSTMENTS (COLORMASTER)

Perform this adjustment after all other controls, including fine tuning for each channel, are correctly set. Place the AFC and Color Master switch to the Off position. Properly tune in a color station. Place Color Master switch (S152) to the On position. Adjust Preset Brightness (R151B), Color (R154B) and Tint (R153B) Controls for proper flesh tones and brightness level. Use only a plastic screwdriver for these adjustments.

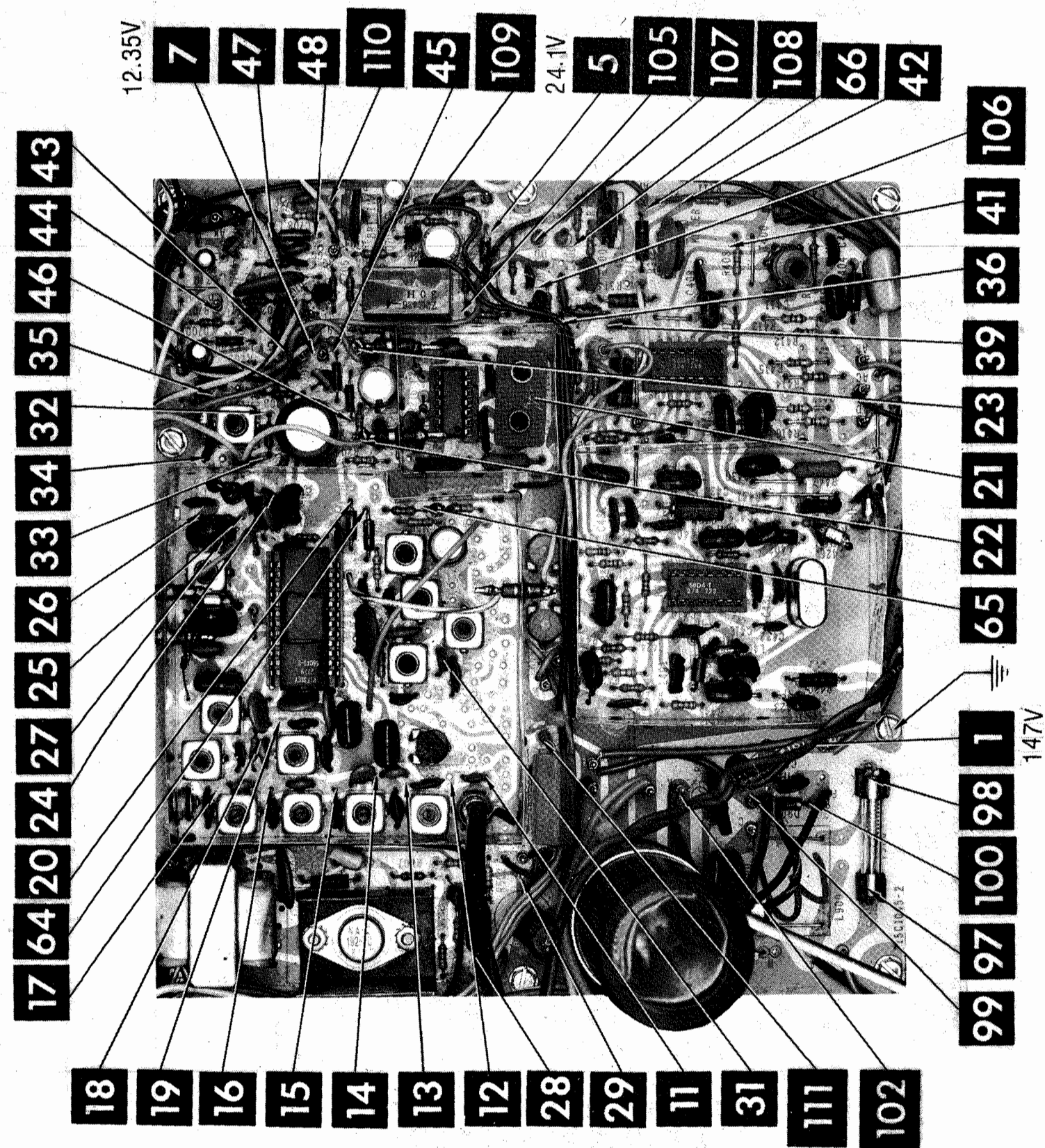
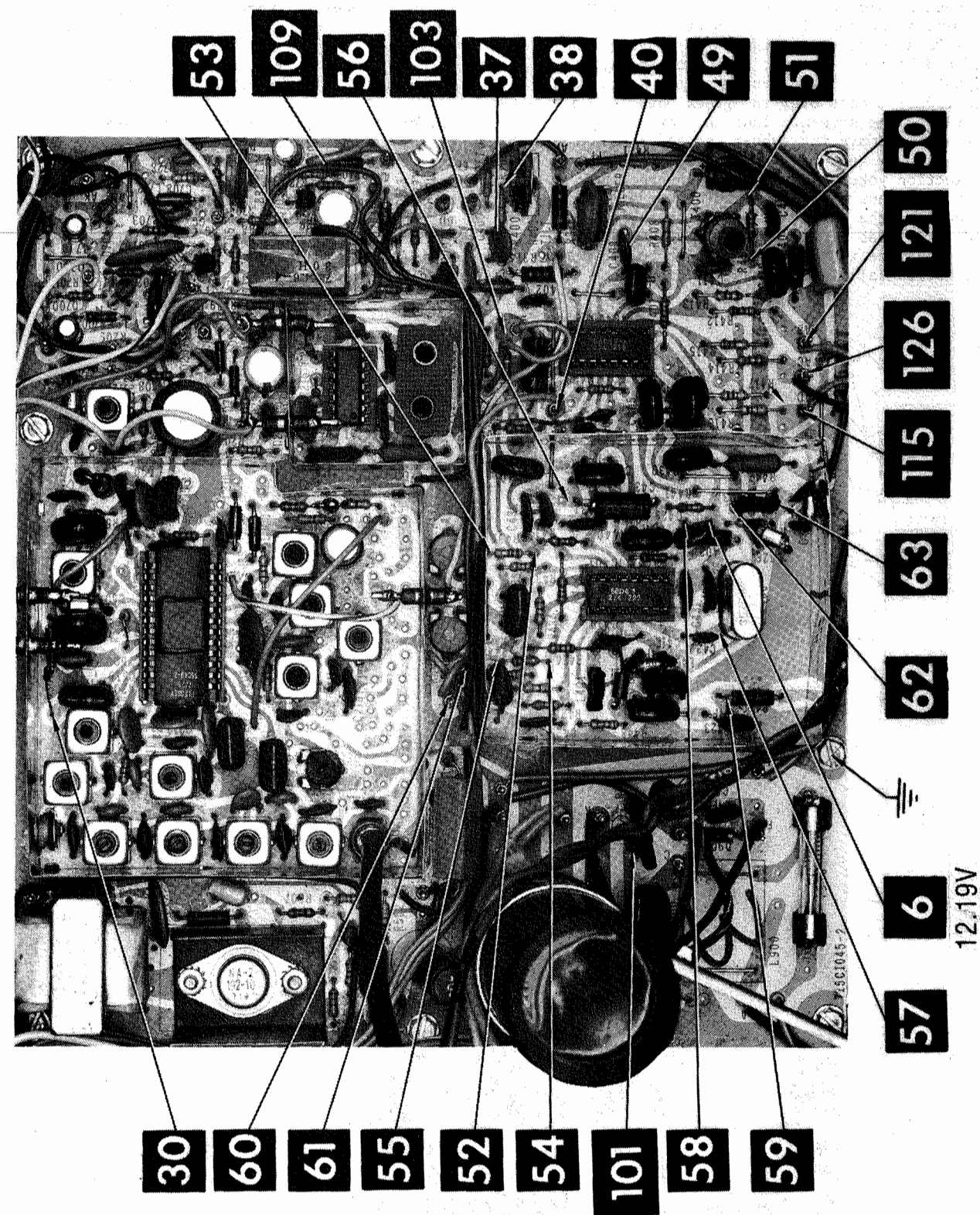


Location of CRT Neck Components

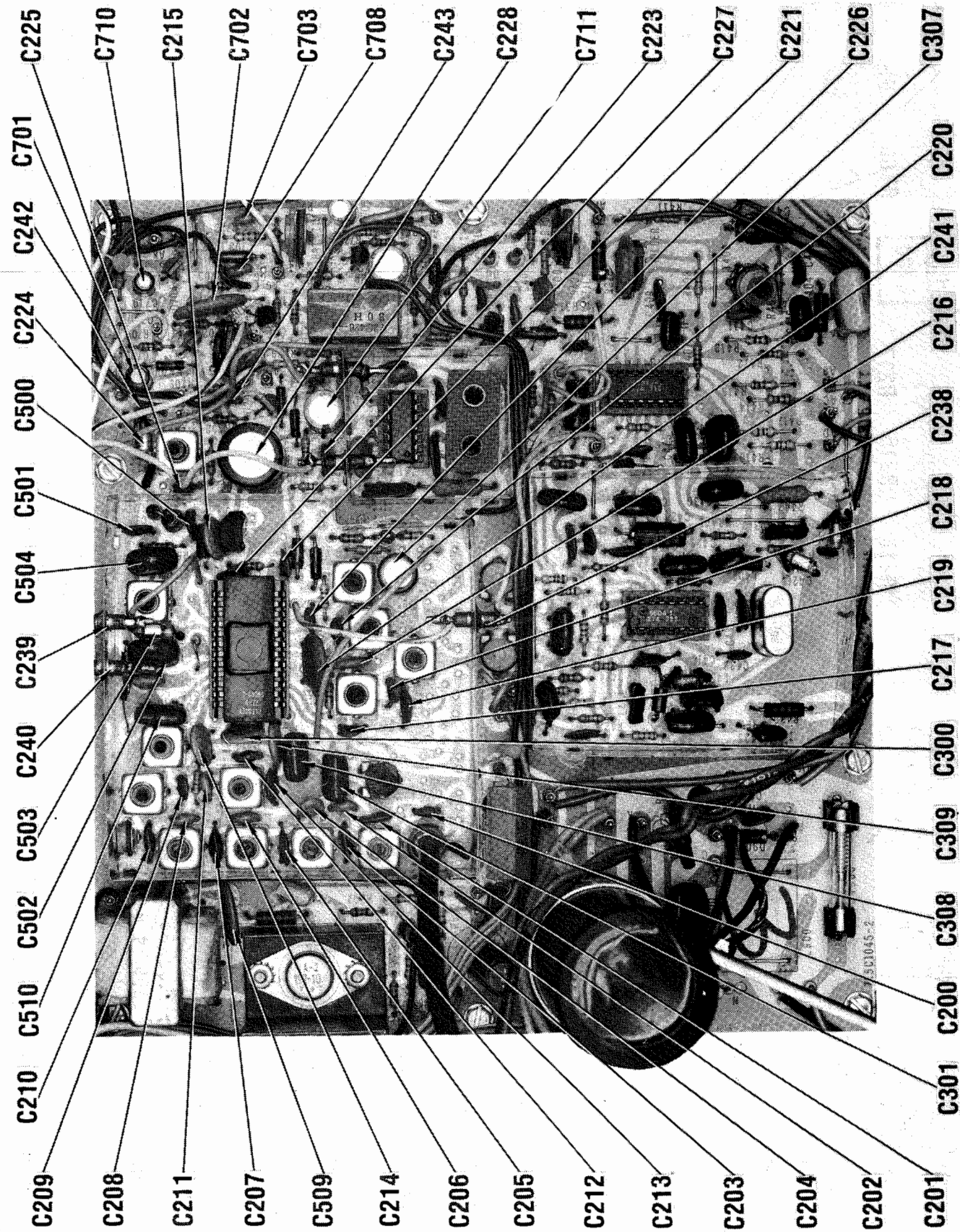


ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D, 7M46-1D/-2D

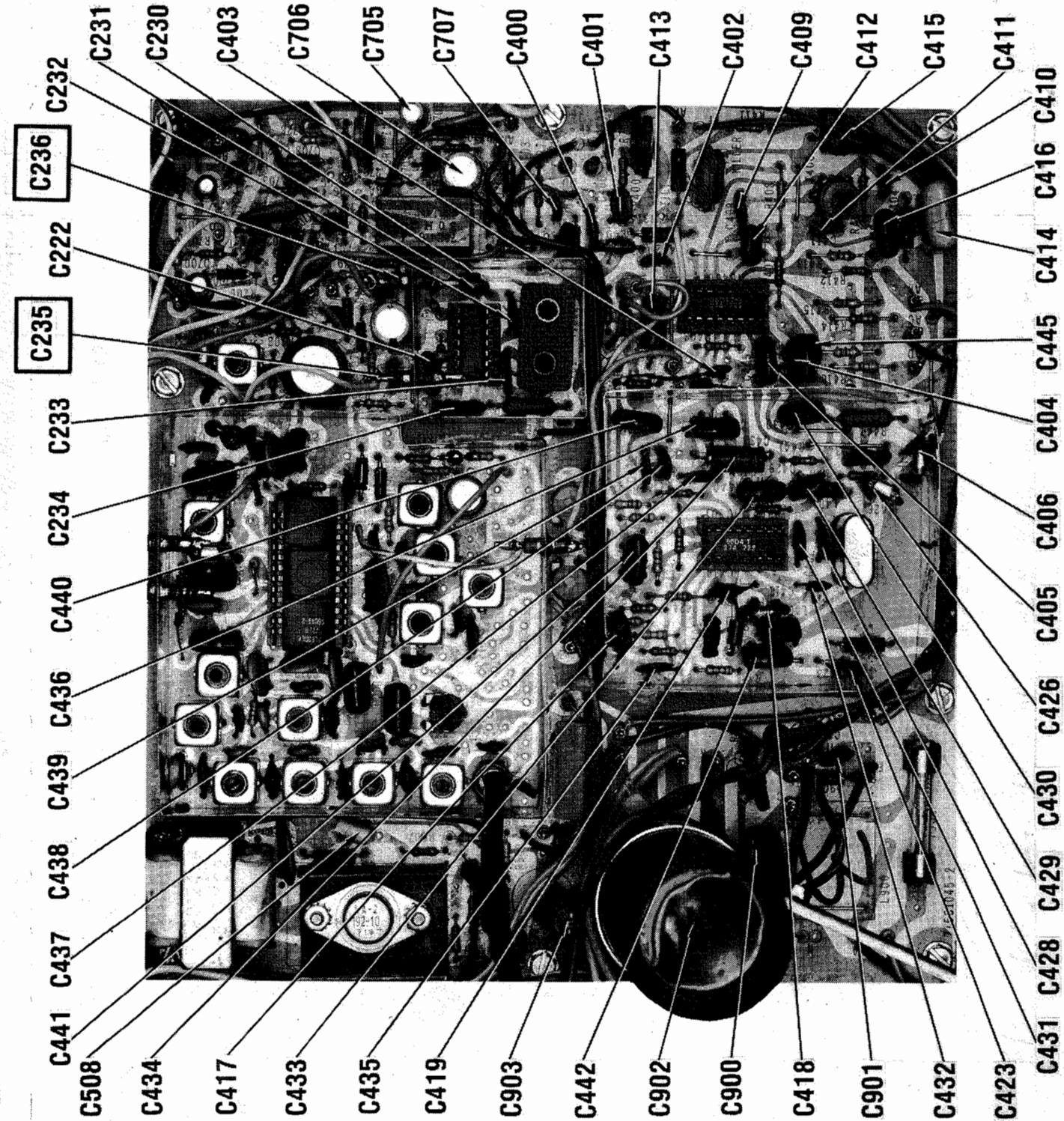
FOLDER 1
CRT NECK ASSEMBLY



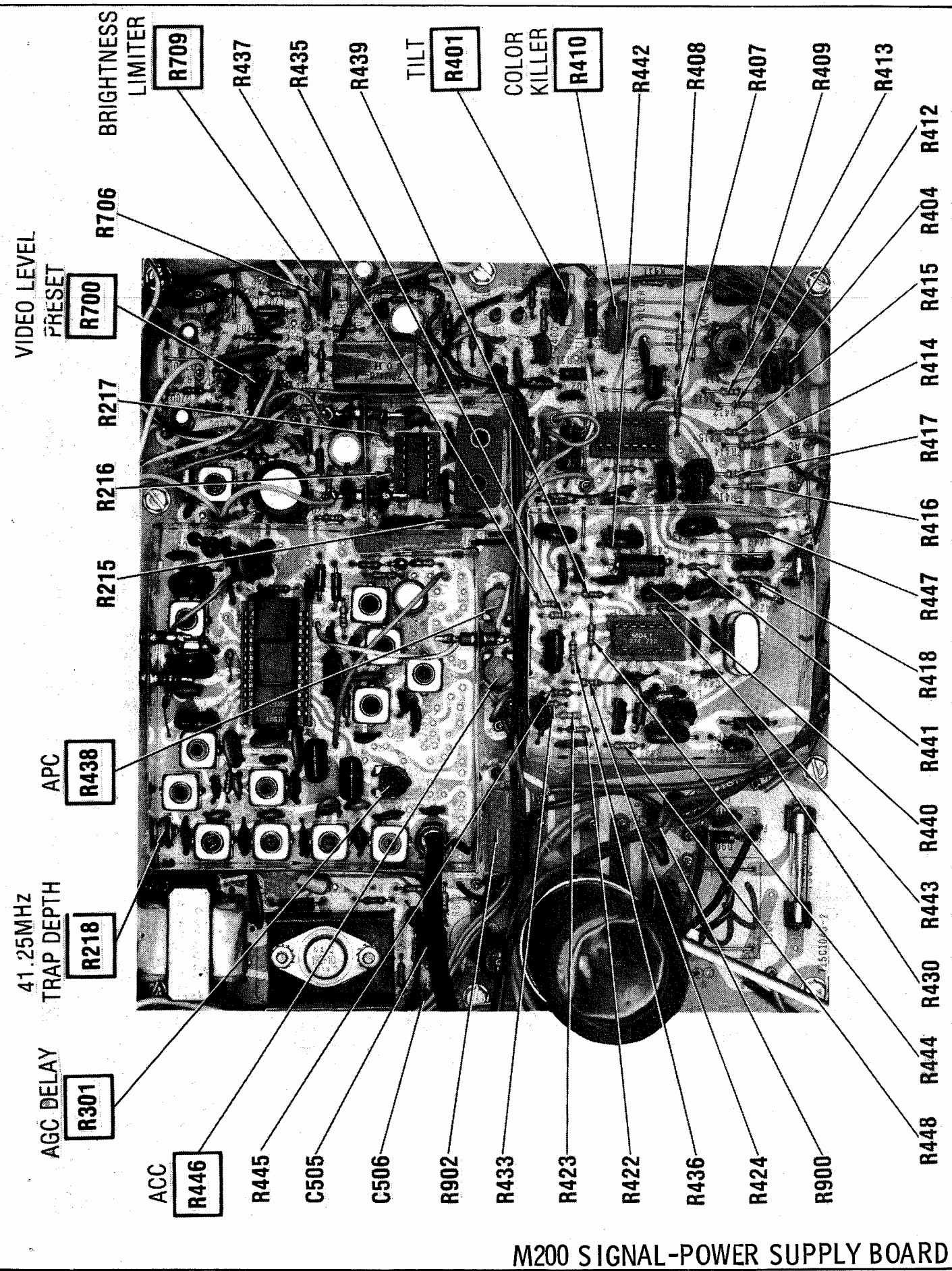
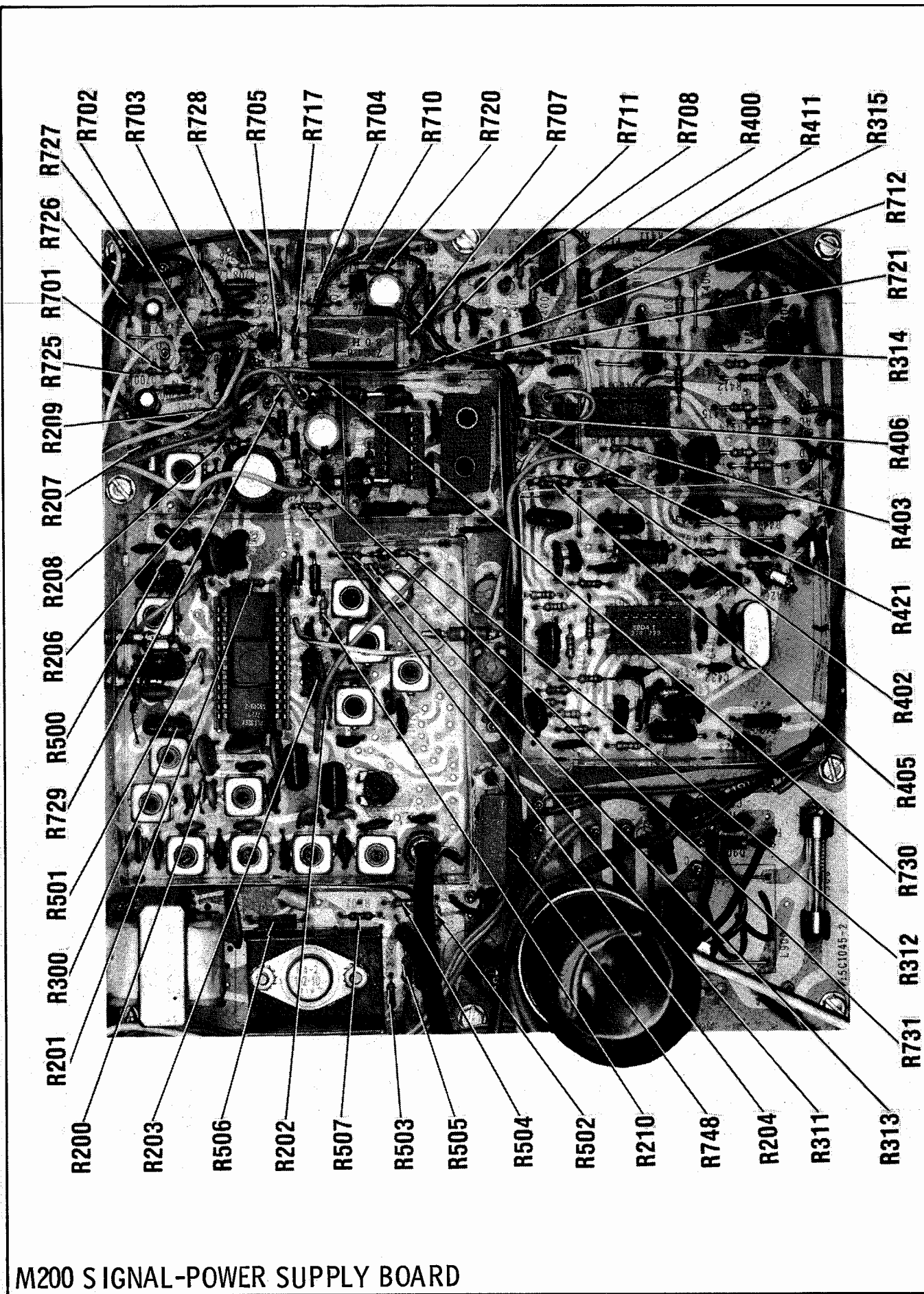
M200 SIGNAL-POWER SUPPLY BOARD



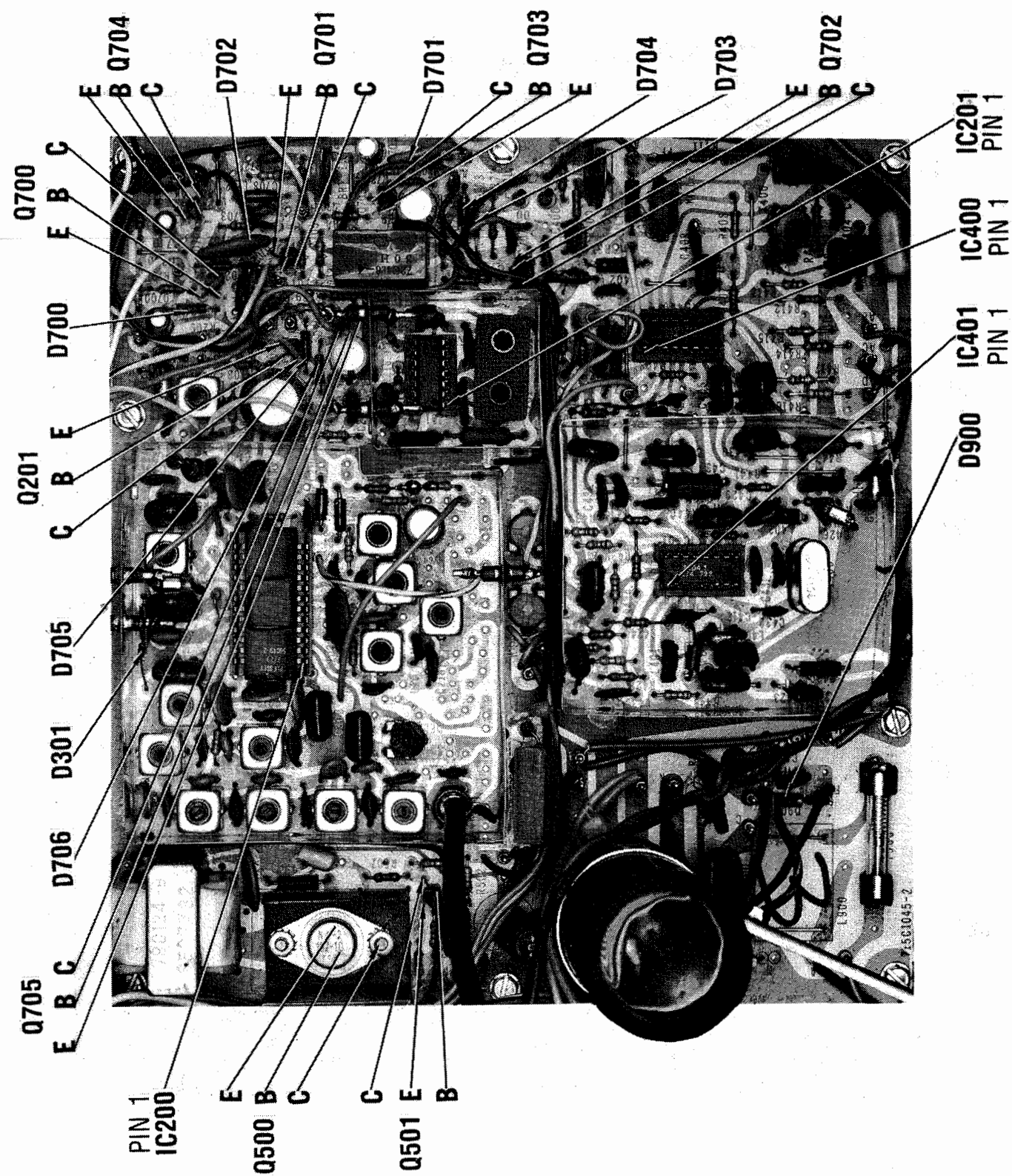
M200 SIGNAL-POWER SUPPLY BOARD



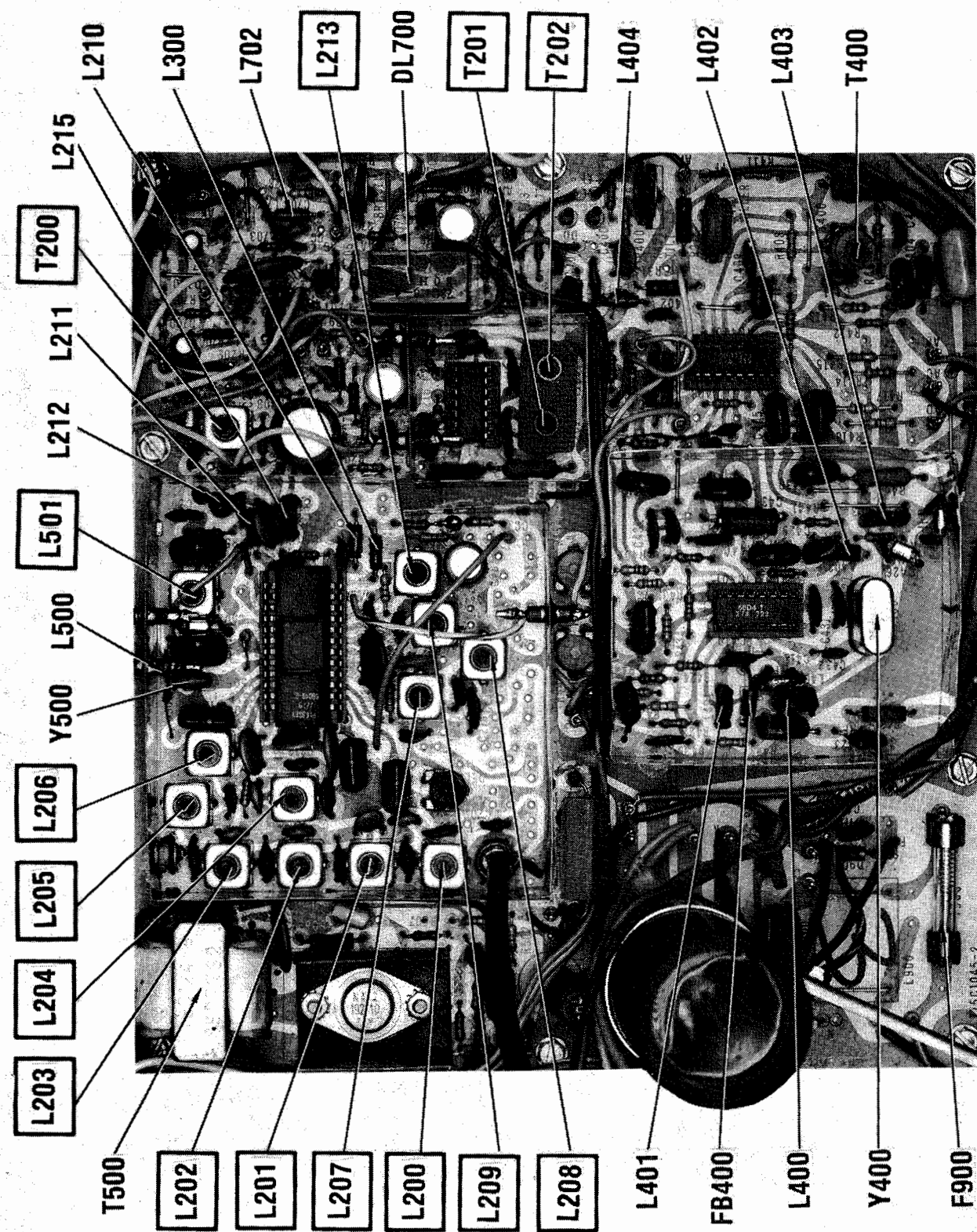
ADMIRAL CHASSIS
3M6-1B1-1D-2B1/2D-7M6-1D-2D

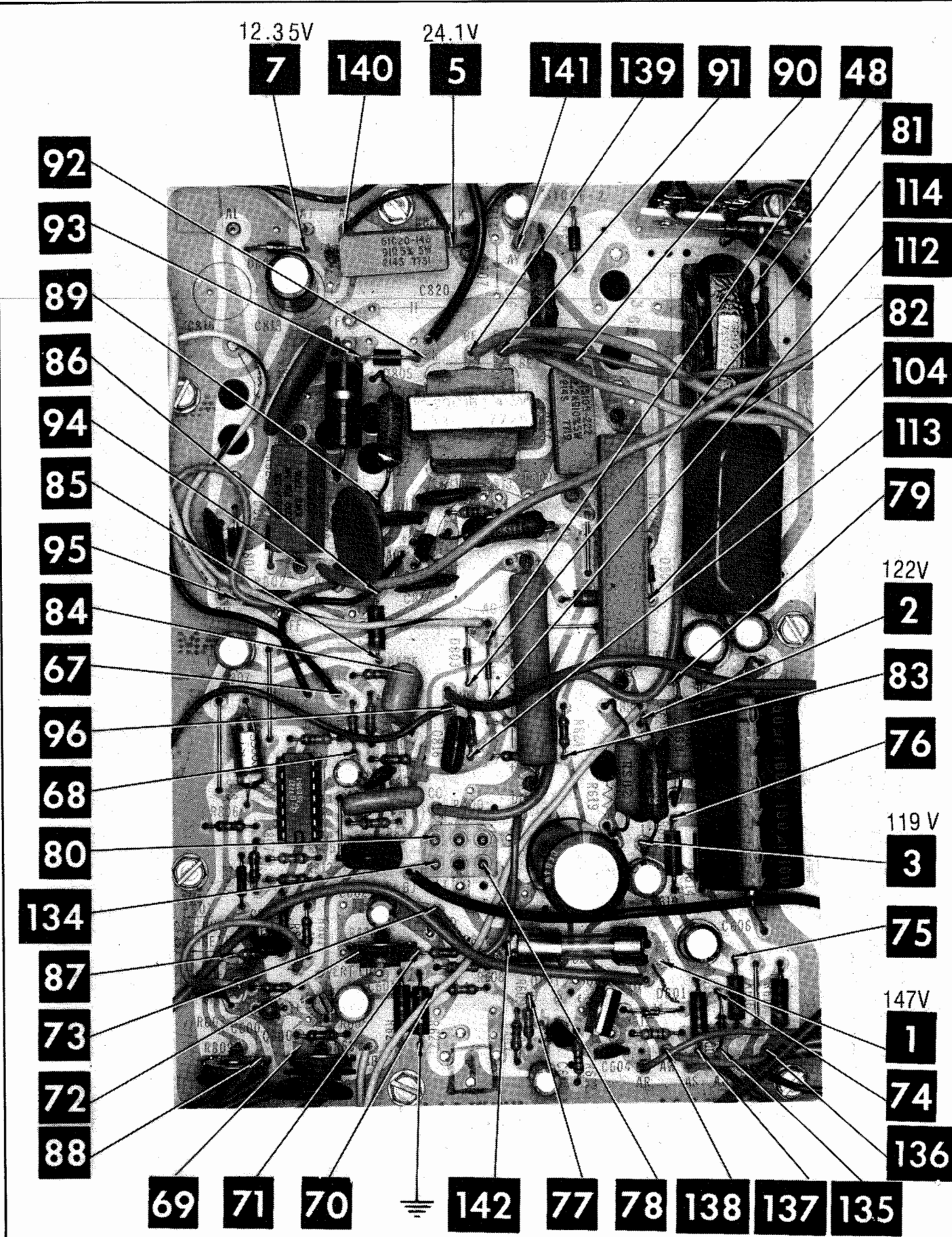


M200 SIGNAL-POWER SUPPLY BOARD

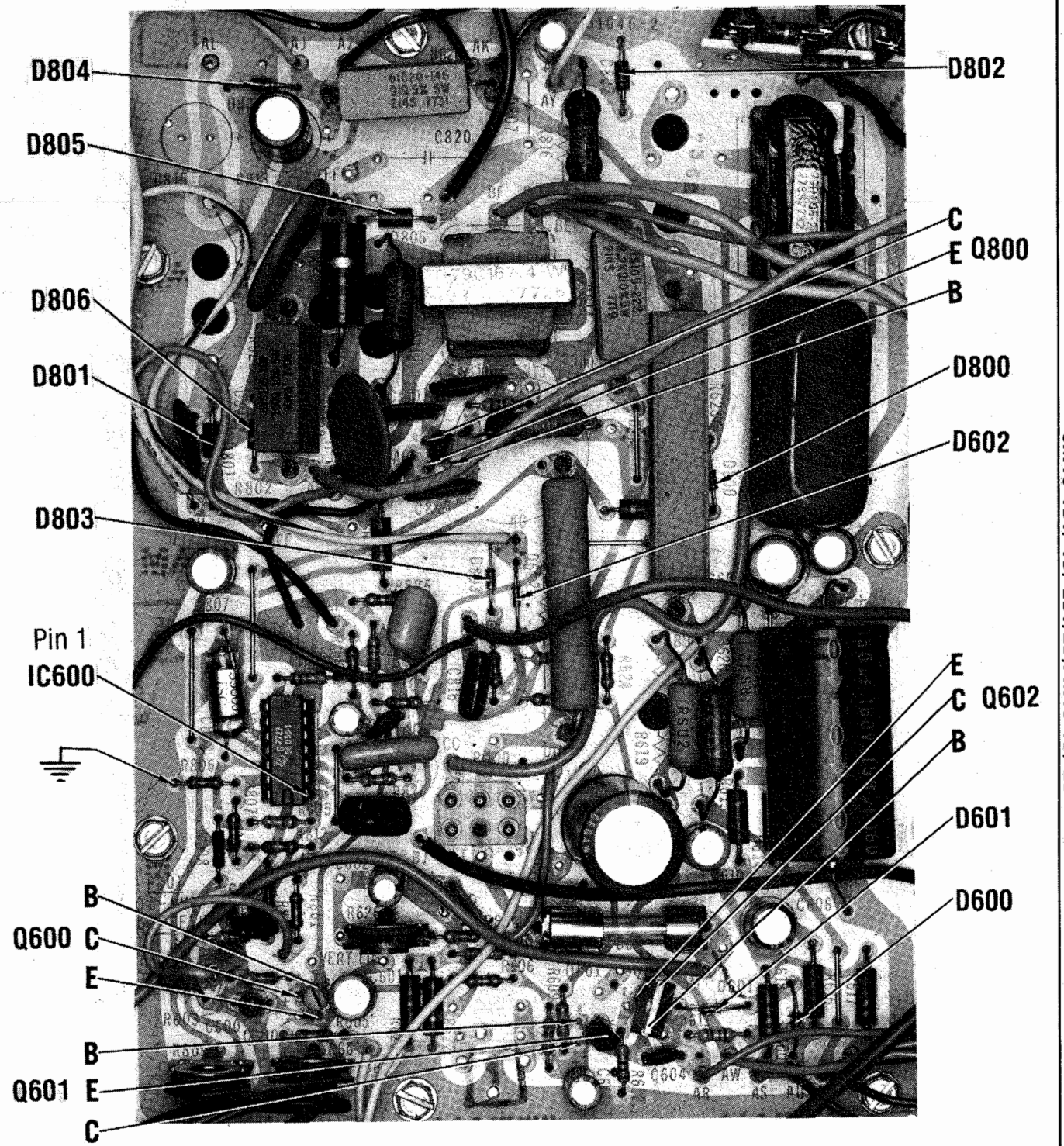


M200 SIGNAL-POWER SUPPLY BOARD





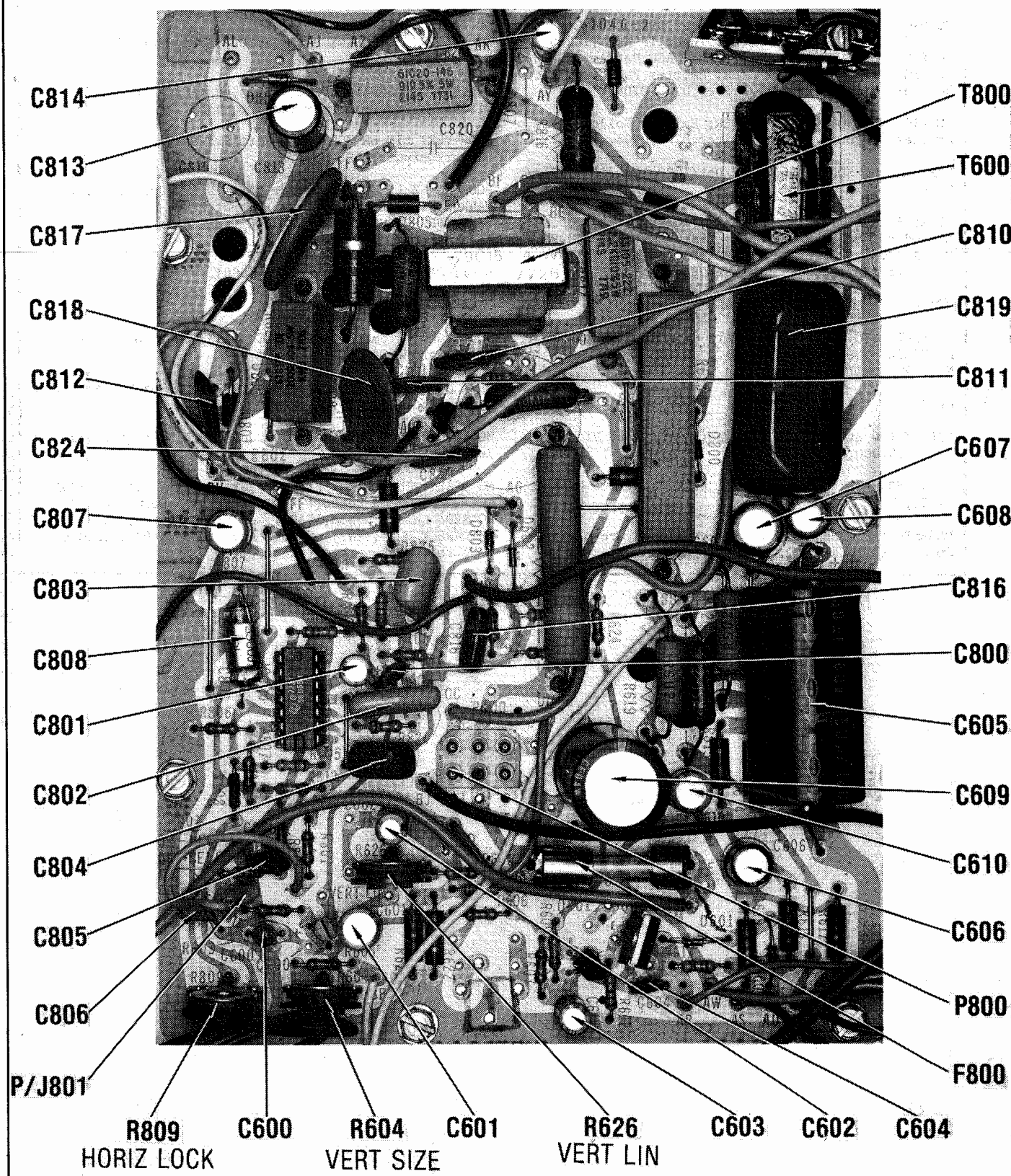
M600 DEFLECTION BOARD A Howard W. Sams CIRCUITRACE® Photo



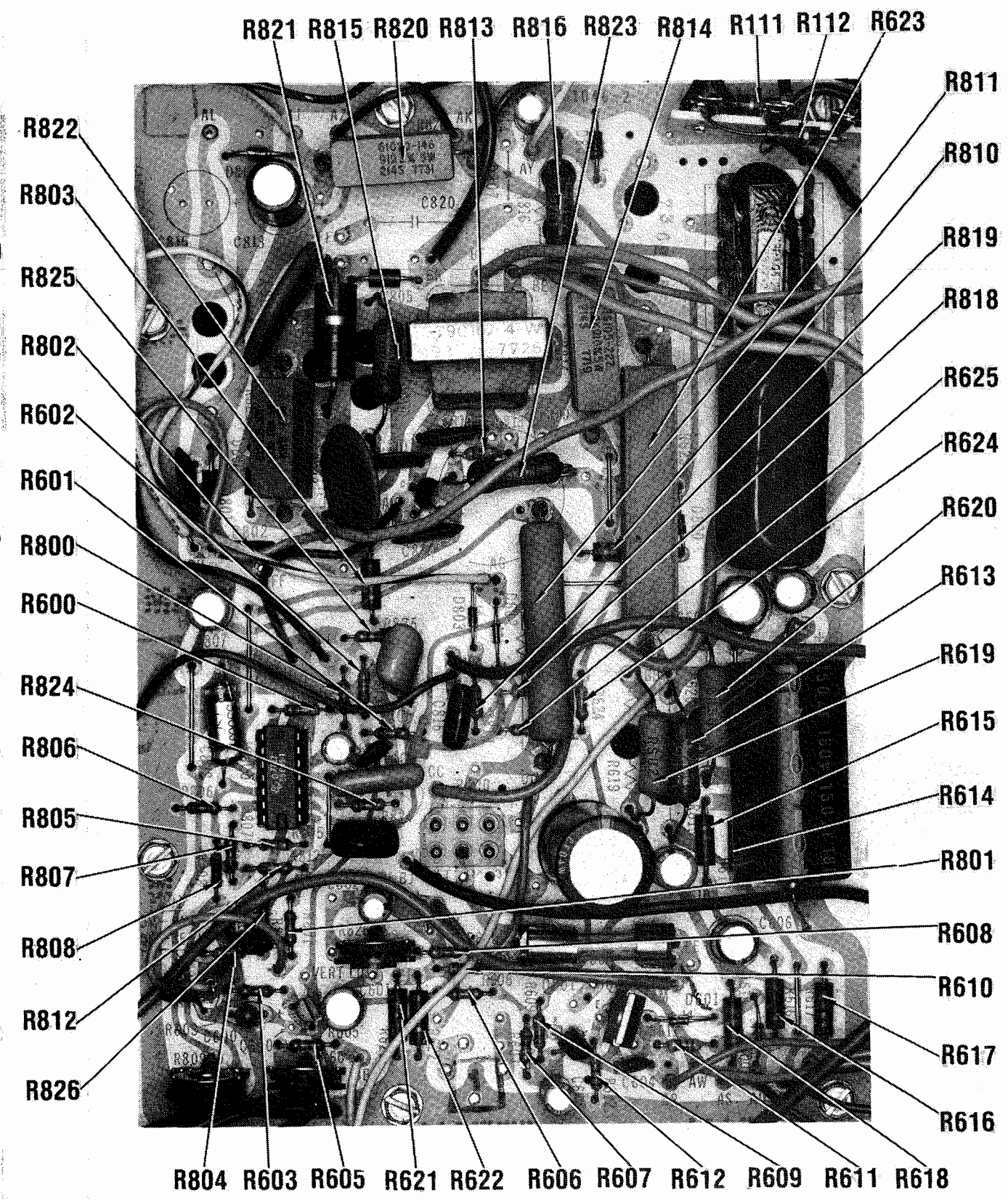
M600 DEFLECTION BOARD

ADMIRAL CHASSIS
3M46-1B1/-1D/-2B1/2D/7M46-1D/-2D

FOLDER 1



M600 DEFLECTION BOARD

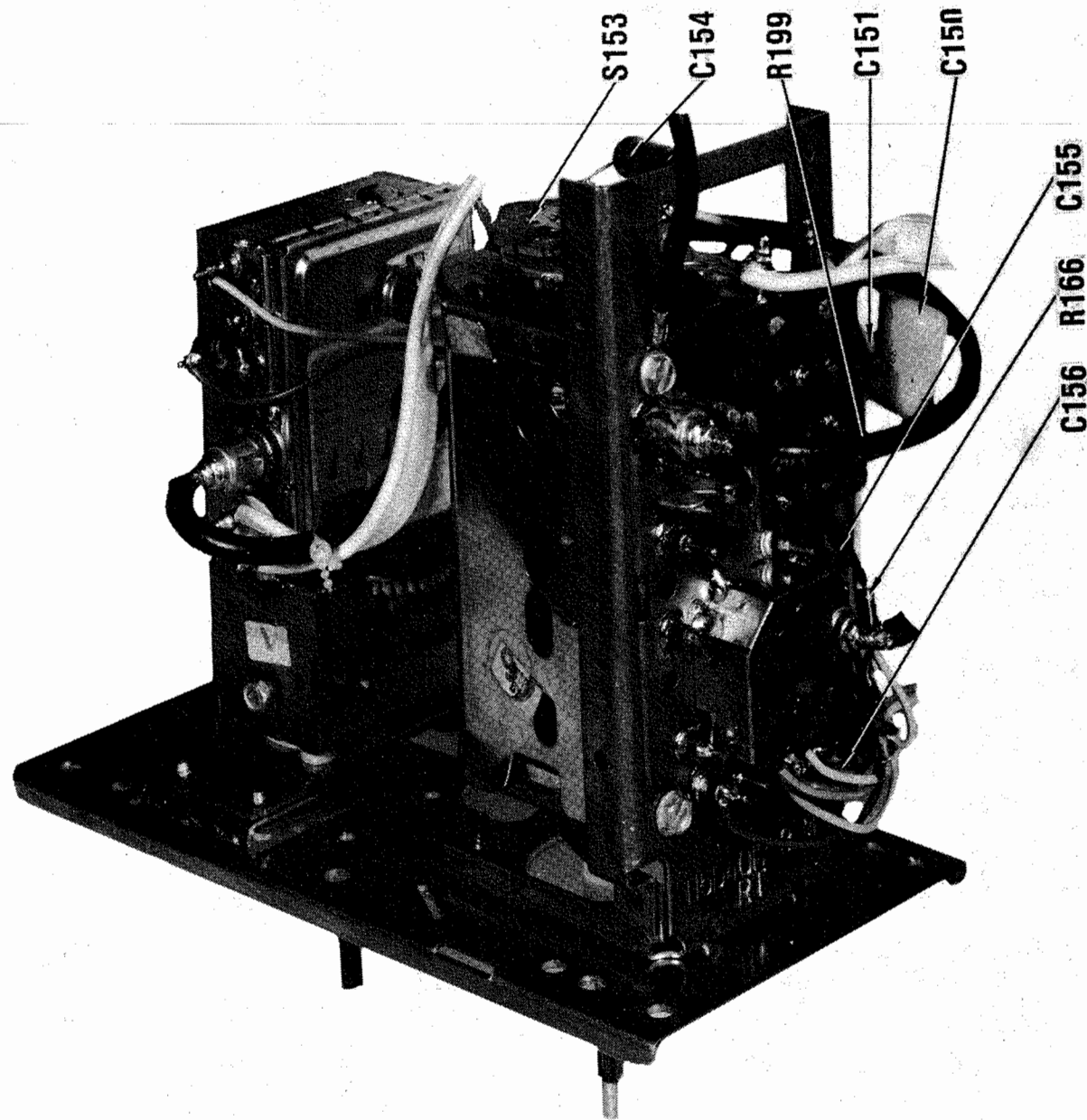


M600 DEFLECTION BOARD

ADMIRAL CHASSIS
3M46-1B1-1D/-2B1/2D/7M46-1D/-2D

FOLDER 1

TUNER ASSEMBLY



TROUBLESHOOTING CHECK CHART

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

PICTURE or SOUND

NO PIC, NO SOUND, NO RASTER: Fuses,D900,D801,24V Reg.
 NO PIC, NO SOUND, HAS RASTER: Tuner,IF Amp (IC200).
 NO PIC, NO SOUND, HAS SNOW: Tuner,AGC Det/Amp(IC200).
 NO PIC, HAS SOUND, NO RASTER: Emitter Follower,Video Emitter Follower/Pre-Amp/Driver,D703,D704,CRT.

NO PIC, HAS SOUND, HAS RASTER: Emitter Follower,Video Emitter Follower/Pre-Amp/Driver,D703,D704.

HAS PIC, NO SOUND: Sound IF/Det(IC200),Audio Driver/Output.

OVERLOADED PICTURE: AGC Det/Amp(IC200).
 LOW OR EXCESSIVE BRIGHTNESS: Video Emitter Follower/Pre-Amp/Driver,Picture Control,Brightness Limiter Stabilizer,Brightness Limiter,D806.

SYNC

NO VERT SYNC: Vert(IC600),Vert Capacitor Discharge.
 NO HORIZ SYNC: Horiz (IC600).
 NO VERT/HORIZ SYNC: Sync Sep (IC600).

RASTER

YELLOW (NO BLUE): Chroma Demod(IC400),Blue Video Output,D1000,CRT.

CYAN (NO RED): Chroma Demod(IC400),Red Video Output,D1002,CRT.

MAGENTA (NO GREEN): Chroma Demod(IC400),Green Video Output,D1001,CRT.

SWEEP

NO RASTER, HAS SOUND: M100,CRT.
 NO RASTER, NO SOUND: Horiz(IC600),Horiz Drive/Output,D100.

NO VERT DEFLECTION: Vert(IC600),Vert Capacitor Discharge/Pre-Driver/Driver/Outputs.

POOR VERT LIN OR FOLDOVER: Vert Pre-Driver Driver/Outputs,D600,D601.

POOR HORIZ LIN OR FOLDOVER: Horiz Drive/Output,D100.
 NARROW PICTURE: Horiz Drive/Output,D100.
 VERT OFF FREQUENCY: Vert(IC600),Vert Capacitor Discharge.

HORIZ OFF FREQUENCY: Horiz (IC600).

COLOR (B/W operating normally)

NO COLOR: Chroma Amp/Demod(IC400),3.58MHz Subcarrier Regenerator(IC401).

WEAK COLOR: Chroma Amp/Demod(IC400),3.58MHz Subcarrier Regenerator(IC401).

NO COLOR SYNC: Chroma Amp/Demod(IC400),3.58MHz Subcarrier Regenerator(IC401).

NO GREEN: Chroma Demod(IC400),Green Video Output,D1001.

NO BLUE: Chroma Demod(IC400),Blue Video Output,D1000.

NO RED: Chroma Demod(IC400),Red Video Output,D1002.

INCORRECT HUE (TINT): Chroma Amp/Demod(IC400),3.58MHz Subcarrier Regenerator(IC401).

ADMIRAL CHASSIS
 3M46-1B1-1D-2B1/2D,7M46-1D-2D

FOLDER 1

SERVICE INFORMATION

PICTURE TUBE REPLACEMENT (3M46 and 7M46)

IMPORTANT: When replacing the precision picture tube assembly, resistors R100 and R101 must be added to the new picture tube. The damping resistors, R100 and R101 are standard 1.2K ohm, 5% 1/2 watt carbon type and may be purchased from a local supplier.

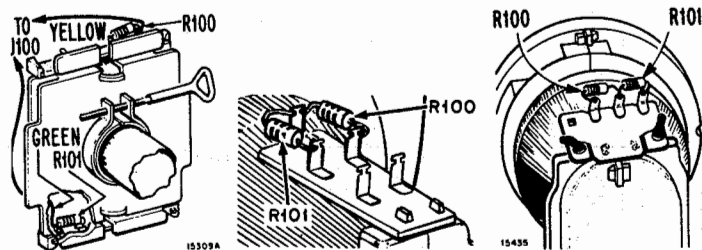


Figure 8. Location of R100 and R101

The resistors may be mounted in one of three configurations as shown. In both cases, R100 connects from the yellow yoke lead to the yoke centertap, while R101 connects from the green yoke lead to the yoke centertap. Be sure these resistors are installed on the picture tube after replacement and before operating the receiver.

Courtesy of the Manufacturer

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.	RCA PART No.	SYLVANIA PART No.	
# V100	470GEB22-TC05 370DRB22-TC01 or 370CRB22-TC03				Used in Models SKC1701, SKC1701M Used in Models 13C8018, 13C8018M, SKC1301, SKC1301M

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.
D100		93A60-10	GE-511	PTC216	HEPR3012	REN 506	SK3125	RT-203	ECG506	TM506	WEP172	103-287
D301		93A64-2	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D600		93A64-5	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D601		93A64-5	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D602		93A64-2	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D700		93A25-1	GE-300	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-Z9001
D701		93A25-1	GE-300	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-Z9001
D702		93A64-7	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D703		93A64-7	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D704		93A60-14	GE-504A	PTC202	HEPR0054	REN 116	SK3313	RT-215	ECG116	TM116	WEP158	212-76-02
D705		93A25-1	GE-300	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-Z9001
D706		93A25-1	GE-300	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-Z9001
D800		93A64-2	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D801		93A60-9	GE-504A	PTC201	HEPR0053	REN 116	SK3312	RT-214	ECG116	TM116	WEP157	212-76-02
D802		93A39-45	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D803		93A64-2	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D804		93A39-43	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D805		93A60-11	GE-511	ZB12A	HEPR0412	REN 142	SK3062	RT-243	ECG142	TM142/**	WEP1112	103-Z9003
D806		93A39-35	GE-511	ZB12A	HEPR0412	REN 142	SK3062	RT-243	ECG142	TM142/**	WEP1112	103-Z9003
D900		93A97-1	GE-504A	PTC201	HEPR0053	REN 116	SK3312	RT-214	ECG116	TM116	WEP157	212-76-02
D1000		93A60-14	GE-504A	PTC202	HEPR0054	REN 116	SK3313	RT-215	ECG116	TM116	WEP158	212-76-02
D1001		93A60-14	GE-504A	PTC202	HEPR0054	REN 116	SK3313	RT-215	ECG116	TM116	WEP158	212-76-02
D1002		93A60-14	GE-504A	PTC202	HEPR0054	REN 116	SK3313	RT-215	ECG116	TM116	WEP158	212-76-02
IC200		56A49-2	GE-504A	PTC202	HEPR0054	REN 116	SK3313	RT-215	ECG116	TM116	WEP158	212-76-02
IC201		56A20-1	GEIC-225	PTC730	HEPC6100P	REN 783	SK3215	TVM-30	ECG783	TM783	WEP2058	
IC400		56A17-1	GEIC-231	PTC733	HEPC6100P	REN 791	SK3149	TVM-34	ECG791	TM791	WEP2066	221-69
IC401		56A4-1	GEIC-4	PTC715	HEPC6070P	REN 714	SK3075	TVM-8	ECG714	TM714	WEP509	221-87-01
IC600		56A55-1	GEIC-4	PTC715	HEPC6070P	REN 714	SK3075	TVM-8	ECG714	TM714	WEP509	221-87-01
# M100		93A99-8	GE-511	PTC216	HEPR3012	REN 506	SK3125	RT-203	ECG506	TM506	WEP172	103-287
Q100		57A263-11	GE-259	PTC146	HEPS3060	REN 238	SK3115	RT-140	ECG238	TM238	WEP740B	121-831
Q101		57A278-14(5)	GE-66	PTC167	HEPS3055	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
Q102		57A277-14(5)	GE-69	PTC166	HEPS3055	REN 153	SK3083	RT-196	ECG153	TM153	WEP746	121-988-02
Q103		57A286-10	GE-66	PTC167	HEPS3060	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
Q201		57A182-12	GE-20	PTC115*	HEPS0015	REN 123A	SK3444	RT-122	ECG123A	TM123A	WEP736	121-Z9000A
Q500		57A192-10	GE-12	PTC104	HEPS0015	REN 124	SK3131	RT-128	ECG124	TM124	WEP240	121-Z9012
Q501		57A195-10	GE-66	PTC167	HEPS3060	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
Q600		57A194-11	GE-40	PTC117	HEPS3060	REN 154	SK3040	RT-110	ECG154	TM154	WEP713	121-792
Q601		57A281-14	GE-269*	PTC103	HEPS0026	REN 159*	SK3114*	RT-126A	EECG290*	TM290*	WEP911*	121-1019
Q602		57A280-14	GE-268	PTC170*	HEPS0015*	REN 289	SK3122	RT-141	ECG289	TM289	WEP910	121-773
Q700		57A279-14	GE-66	PTC167	HEPS3060	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
Q701		57A182-12	GE-20	PTC115*	HEPS0015	REN 123A	SK3444	RT-172	ECG123A	TM123A	WEP736	121-Z9000A
Q702		57A182-12	GE-20	PTC115*	HEPS0015	REN 123A	SK3444	RT-172	ECG123A	TM123A	WEP736	121-Z9000A
Q703		57A258-8	GE-82	PTC103	HEPS0013	REN 159	SK3466	RT-126A	ECG159	TM159	WEP62*	121-Z9003
Q704		57A194-11	GE-40	PTC117	HEPS5024	REN 154	SK3122*	RT-110	ECG154	TM154	WEP713	121-792
Q705		57A182-12	GE-20	PTC115*	HEPS0015	REN 123A	SK3444	RT-172	ECG123A	TM123A	WEP736	121-Z9000A
Q800		57A283-11	GE-40	PTC117	HEPS5024	REN 154	SK3122*	RT-110	ECG154	TM154	WEP713	121-792
Q1000		57A208-8	GE-27	PTC117	HEPS3048	REN 171	SK3201	RT-159A	ECG171	TM171	WEP702	121-912
Q1001		57A208-8	GE-27	PTC117	HEPS3048	REN 171	SK3201	RT-159A	ECG171	TM171	WEP702	121-912
Q1002		57A208-8	GE-27	PTC117	HEPS3048	REN 171	SK3201	RT-159A	ECG171	TM171	WEP702	121-912

For SAFETY use only equivalent replacement part.

* Lead configuration may vary from original.

** Also available as exact type replacement.

(5) Half of complementary pair.

3M46-1B/-1D/-2B/7M46-1D/2D

ADMIRAL CHASSIS

FOLDER 1

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.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C154	10 25V NP	67A40-12	WNP10-50	TCN5010A	QEN1-187	TVAN-1304.1
C156	2.2 15V	67A200-229-3	PC2-100(1)	VTT2R2A50(1)	QV1-19(1)	EV-1517(1)
C228	1000 16V	67A201-102-3	PC1000-16	VTT1000L16	QV1-183	EV-1260
C307	47 16V NP	67A86-6		TCN1551		TVAN-1206.1
C413	2.2 25V	67A88-1	PC2-100	VTT2R2A50	QV1-19	EV-1517
C415	4.7 50V	67A200-479-7	PC5-50(1)	VTT4R7B50(1)	QV1-29(1)	EV-1519(1)
C434	10 25V	67A88-2	WBR10-25	TT25X10	QE1-179	TVA-1204
C600	4.7 25V	67A202-479-66		TOC475M035FL		SD35-4R79
C601	3 3 25V	67A201-330-4	PC30-25	VTT33025	QV1-63	EV-1325
C602	1 50V	67A201-109-7	PC1-50	VTT1A50	QV1-11	EV-1615
C603	1 50V	67A201-109-7	PC1-50	VTT1A50	QV1-11	EV-1615
C605	150 150V	67A4-103	WBR150-150	TC4958		TVA-1422
C606	10 50V	67A201-100-7	PC10-50	VTT10063	QV1-45	EV-1622
C607	220 25V	67A201-221-4	PC250-25	VTT220K25	QV1-119	EV-1340
C608	22 25V	67A201-220-4	PC25-25	VTT22025	QV1-57	EV-1324
C609	220 100V	67A201-221-9	WBR250-150	TC10251A		TVA-1349
C610	2.2 100V	67A201-229-9	PC2-100	TT100X2*		TVA-1331*
C701	10 16V NP	67A86-4	WNP10-50	TCN5010A	QEN1-187	TVAN-1304.1
C705	22 16V	67A201-220-3	PC25-25	VTT22816	QV1-55	EV-1224
C706	100 16V	67A201-101-3	PC100-16	VTT100F16	QV1-95	EV-1230
C710	10 6.3V	67A201-100-1	PC10-25	VTT10825	QV1-41	EV-1222
C711	100 25V	67A84-3	PC100-25	VTT100G25	QV1-97	EV-1330
C801	1 50V	67A201-109-7	PC1-50	VTT1A50	QV1-11	EV-1615
C806	1 25V	67A202-109-66		TOC105M050EL	QDT1-25	SD50-19
C807	33 25V	67A201-330-4	PC30-25	VTT33025	QV1-63	EV-1325
C813	100 50V	67A201-101-7	PC100-50	VTT100K50	QV1-99	EV-1530
C814	1 50V	67A201-109-7	PC1-50	VTT1A50	QV1-11	EV-1615
C902A	700 185V	67A30-26				
B	800 185V					

For SAFETY use only equivalent replacement part.
* Axial replacement for radial device.
(1) Radial replacement used in place of axial device.

CAPACITORS

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
# C100	Special 4 lead	63A102-6					
# C101	330, 2KV N1500 10%	65A10-186					30GA-S10
C102	.01 2KV	65A10-327					
C104	.001 500V feed thru	65A26-16					
C105	100 1.5KV feed thru	65A26-19					
C106	.001 500V feed thru	65A26-16					
C150	.33 50V			WMF05P33	EWF05033		431P3349R5
C151	.001 500V		DD-102		GP210		10TS-D10
C152	470 500V 10%		DD-471	GP470	GP347		10TS-T47
C155	.01 500V 10%			DPM56S1	EWF6110		6PS-S10
C200	220 500V 10%		DTZ-220				10TCC-T22
C201	39 NPO 500V 5%				CN0439		10TCC-Q39
C202	3.9 NPO 500V +.25	65A402-339-1			CN0533		
C203	47 NPO 500V 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C204	4.7 NPO 500V +.25	65A402-479-1			CN0547		
C205	47 NPO 500V 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C206	6.8 NPO 500V +.25	65A402-689-1			CN0568		
C207	47 NPO 500V 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C208	3 NPO 500V +.25	65A110-472			CN0533		
C209	4.7 NPO 500V +.25	65A402-479-1			CN0547		
C210	47 NPO 500V 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C211	2.2 NPO 500V +.25	65A402-229-1			CN0522		
C212	2.2 NPO 500V +.25	65A402-229-1			CN0522		
C213	47 NPO 500V 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C214	.0015 500V 10%		DD-152		GP215		10TS-D15
C215	.0015 500V 10%		DD-152		GP215		10TS-D15
C216	.0015 500V 10%		DD-152		GP215		10TS-D15
C217	22 NPO 500V 5%		DTZ-22	NP022	CN0422		10TCC-Q22
C218	4.7 NPO 500V +.25	65A402-479-1			CN0547		
C219	68 NPO 500V 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C220	22 NPO 500V 5%		DTZ-22	NP022	CN0422		10TCC-Q22
C221	18 NPO 500V 5%				CN0418		10TCC-Q18
C222	.0015 500V 10%		DD-152		GP215		10TS-D15
C223	27 NPO 500V 5%		DTZ-220		CN0427		10TCC-Q27
C224	220 500V 5%		DTZ-220				10TCC-T22
C225	220 500V 5%		DTZ-220				10TCC-T22
C226	22 NPO 500V 5%		DTZ-22	NP022	CN0422		10TCC-Q22
C227	27 NPO 500V 5%				CN0522		10TCC-Q27
C230	.001 500V 10%		DD-102		GP210		10TS-D10
C231	5 NPO 500V +.25	65A110-161			GP550		
C232	68 NPO 500V 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C233	B2 NPO 500V 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C234	.0033 500V 10%			DPM56D33	EWF6233		6PS-D33
C235	.001 500V feed thru	65A26-16					
C236	.001 500V feed thru	65A26-16					
C238	.001 500V feed thru	65A26-16					
C239	.001 500V feed thru	65A26-16					
C240	.001 500V feed thru	65A26-16					
C241	.1 50V		CK-104		MAG5001		10TCC-Q15
C242	15 NPO 500V 5%		DTZ-15	NP015	CN0415		10TS-T68
C243	680 500V 10%		DD-681	GP680	GP368		

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
FB100	Ferrite Bead	71A55-2	
FB101	Ferrite Bead	71A55-2	
FB102	Ferrite Bead	71A55-2	
FB400	Ferrite Bead	71A55-1	
# J100	Connector	33A604-29	2 Pin Degaussing Coil
# J103	Connector	33A2220-1	Q103
# J150	Jack	88A92-3	CATV Input
# J151	Connector	33A1812-6	AFC Switch (Used in Chassis 7M46-1D, 2D)
# J152	Connector	33A1812-7	Color Master Switch (Used in Chassis 7M46-1D, 2D)
# J152	Connector	33A2255-3	Pre-Set Switch (Used in Chassis 3M46-1D, 2D)
# J201	Connector	799A3923	
# J400	Connector	33A983-41	1 Pin
# J800	Connector	33A604-2	6 Pin Deflection
# J700	Connector	33A604-26	1 Pin
# J1000	Connector	33A1819-49	2 Pin
# L102	Degaussing Coil	750A1697-28	Used in Chassis 7M46-1D, -2D
# M200	Printed Circuit Board	750A1697-27	Used in Chassis 3M46-1B1, -2B1, -1D, -2D
# M600	Printed Circuit Board	A8992-5	Signal-Power Supply
# M1000	Printed Circuit Board	A8993-1	Deflection
# M1100	Printed Circuit Board	A8994-1	CRT Socket R/G/B Output
# P101	AC Line Cord	700A1909-3	Antenna Input
# P800	Plug	69A168-5	Polarized
# PL150	Connector	68A138-1	6 Pin Deflection
# PL151	Lamp	33A983-41	
# S150	Switch	81A101-11	VHF Indicator (51F)
# S151	Switch	81A101-3	UHF Indicator (51)
# S152	Switch	75A254-1	AC Power (Part of R161)
# S153	Switch	77A254-12	AFC Used in Chassis 7M46-1D, -2D
# S153	Switch	77A254-13	Color Master Used in Chassis 7M46-1D, -2D
# S153	Switch	76A73-6	Pre-Set Selector Used in Chassis 3M46-1D, -2D
# S153	Switch	67A204-1	AFC Defeat
# X1000	Socket	67A204-1	CRT
# Y400	Crystal	93A10-1	3.58MHz
# Y500	Filter	10A200-303	4.5MHz
#	AC Input	69A344-17	Terminal Strip
#	Antenna VHF	32A1226-1	RUSSELL Assembly Replacement POR-7H
#	Barrier		Side Panel Control
#	Barrier	32A1196-2	UHF Tuner
#	Barrier	32A1252-1	On/Off Switch Used in Chassis 3M46-1D, -2D
#	Board	33A2207-7	Antenna Terminal
#	Link	15A4587-2	Antenna Terminal (4 used)
#	Retainer	11A27-31	AC Line Cord
#	Terminal	9A205-3	Antenna (8 used)
#	Tuner UHF	94A709-3	
#	Tuner UHF	94A708-3	
#	Tuner VHF	94A601-5	Used in Chassis 7M46-1D, -2D
#	Tuner VHF	94A601-4	Used in Chassis 3M46-1B1, -2B1, -1D, -2D

For SAFETY use only equivalent replacement part.

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

ITEM	PART No.	ITEM	PART No.
MODELS 13C8018,M		MODELS SKC1701	
Cabinet Front	34A373-19	Cabinet Front	34A372-14
Cabinet Back	33A1920-19	Cabinet Back	33A1935-17
Control Panel	33A2258-4	Control Panel	33A2125-10
Knob-UHF Channel Selector	21A308-1	Knob-AFC, Color Master (2 used)	33A1989-7
Knob-VHF Channel Selector	33A2235-5	Knob-On/Off/Volume	33A1989-8
Knob-UHF Fine Tuning	33A2233-3	Knob-Preference Controls (4 used)	33A2186-4
Knob-VHF Fine Tuning	33A2233-2	Knob-UHF Channel Indicator	21A305-2
Knob-Pre-Set Selector Switch	33A2261-1	Knob-UHF Channel Selector	33A1973-34
Knob-On/Off/Volume,AFC	33A2261-2	Knob-VHF Channel Selector	33A2069-31
Knob-Preference Controls(4 used)	33A2186-2	Knob-UHF Fine Tuning	33A2068-2
MODELS SKC1301,M		Knob-VHF Fine Tuning	33A2070-14
Cabinet Front	34A373-13		
Cabinet Back	33A1920-20		
Control Panel	33A2228-1		
Handle	37A315-11		
Knob-Preference Controls(4 used)	33A2186-2		
Knob-On/Off/Volume	33A2262-5		
Knob-UHF Channel Selector	33A1973-30		
Knob-VHF Channel Selector	33A2127-3		
Knob-UHF Fine Tuning	33A2140-1		
Knob-VHF Fine Tuning	33A2132-1		
Knob-UHF Indicator	21A307-1		

WIRING DATA

High Voltage Lead	Use BELDEN No. 9867 (30 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
75-Ohm Tuner Input Lead	Use BELDEN No. 8241
300-Ohm Antenna Lead-in	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) 4-Conductor 8485 (Round) 5-Conductor 8488 (Round) 8-Conductor

ADMIRAL CHASSIS 3M46-1B1/-1D/-2B1/2D/7M46-1D/-2D

FOLDER 1

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.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L101	.5A DC	8.7	150mH	74A33-3 T74C33-3-F(1)	20C137(2)	C40X(2)	(1) Number on unit. (2) Drill new mounting hole.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T100	120V AC @ .055A AC	6.45V AC @ .59A AC	80A130-3 80D130-3-E(1)		F-37SX	# For SAFETY use only equivalent replacement part. (1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T500	3100	3.2	T79C124-9(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP100	3" PM 3.2 Ohms	78A283-2	30A05	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	WORKMAN PART No.
# F800	3/4A @ 250V Quick-Acting	84A4-5	84A33-1	ASX3/4	1A1907-05	362.750	102068
# F900	2A @ 250V Slow-Blow	84A1-38		MDX-2		313002/S	102068

For SAFETY use only equivalent replacement part.

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.
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CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C300	.0015 500V 10%		DD-152		GP215	10TS-D15
C301	.1 50V 10%			WMF05P1	EWFO5010	431P1049R5
C308	.1 50V 10%			WMF05P1	EWFO5010	431P1049R5
C309	.0015 500V 10%		DD-152		GP215	10TS-D15
C400	47 N750 500V 5%		DTN-47	N47	CN7447	10TCU-Q47
C401	47 N750 500V 5%		DTN-47	N47	CN7447	10TCU-Q47
C402	220 500V 10%		DTZ-220			10TCC-T22
C403	.001 500V 10%		DD-102		GP210	10TS-D10
C404	.047 50V			DPMS2S47	EWFA1A17	1PB-S47
C405	.047 50V			DPMS2S47	EWFA1A17	1PB-S47
C406	390 100V 5%			CD15FD391J03	SX339	QF1-171
C409	.0022 500V 10%				GP222	QW1-41
C410	27 NPO 500V 5%				CN0427	MMA-391
C411	20 NPO 500V 5%				CN0420	10TS-D22
C412	.01 50V		DTZ-20	NPO20	EWFA1A110	10TCC-Q27
C414	.33 50V			WMF1S1	EWFO5033	10TCC-Q20
C416	.047 50V			WMF05P33	EWFO5033	1PB-S10
C417	.01 50V			DPMS2S47	EWFA1A17	431P3349R5
C418	150 500V 5%			WMF1S1	EWFA1A110	1PB-S47
C419	50 NPO 500V 5%		DTZ-50	CD15FD151J03	SX315	QF1-91
C423	.01 50V 10%			NPO50	CN0450	QF1-171
C426	470 100V 5%			WMF1S1	EWFA1A110	QW1-31
C427	120 N750 500V 5%		DTN-120	CD15FD471J03	SX347	MMA-151
C429	.01 50V					10TCC-Q50
C430	.047 50V			WMF1S1	EWFA1A110	1PB-S10
C431	68 NPO 500V 5%		DTZ-68	DPMS2S47	EWFA1A17	1PB-S47
C432	12 NPO 500V 5%			NPO68	CN0468	10TCC-Q68
C433	.047 50V 10%			DPMS2S47	CN0412	10TCC-Q12
C435	120 N750 500V 5%		DTN-120	EWFA1A17	EWFA1A17	1PB-S47
C436	.047 50V 10%			DPMS2S47	EWFA1A17	10TCU-T12
C437	68 NPO 500V 5%		DTZ-68	NPO68	CN0468	1PB-S47
C438	33 NPO 500V 5%		DTZ-33	NPO33	CN0433	10TCC-Q68
C439	50 NPO 500V 5%		DTZ-50	NPO50	CN0450	10TCC-Q33
C440	.047 50V 10%			DPMS2S47	EWFA1A17	10TCC-Q50
C441	.047 50V 10%			DPMS2S47	EWFA1A17	1PB-S47
C442	.047 50V 10%			DPMS2S47	EWFA1A17	1PB-S47
C445	.0015 500V 10%		DD-152	GP215	GP215	10TS-D15
C500	27 NPO 500V 5%		DTZ-82	CN0427	CN0482	10TCC-Q27
C501	82 NPO 500V 5%			NPO82	EWFO5010	10TCC-Q82
C502	.1 50V 10%			WMF05P1	EWFO5010	431P1049R5
C503	180 125V 5%			CD15FD181J03	SX318	MMA-181
C504	.1 50V 10%			WMF05P1	EWFO5010	431P1049R5
C505	.1 50V 10%			WMF05P1	EWFO5010	431P1049R5
C506	.033 50V 10%				M192P3339R8	192P3339R8
C508	.033 50V 10%				M192P3339R8	192P3339R8
C509	.01 50V		UK50-103		MA6501	
C510	.047 50V 10%			DPMS2S47	EWFA1A17	1PB-S47
C604	22 NPO 500V 5%		DTZ-22	NPO22	CN0422	10TCC-Q22
C702	100 NPO 500V 5%		DTZ-100	NP0100	CN0310	10TCC-T10
C703	150 500V 10%		DTZ-150		CN0315	10TCC-T15
C707	.001 500V 10%		DD-102		GP210	10TS-D10
C708	390 500V 10%		DD-391	GP390	GP339	10TS-T39
C800	680 500V 10%		DD-681	GP680	GP368	10TS-T68
C802	.068 50V 10%			WMF1S68	EWFA1A168	1PB-S68
C803	.022 50V 10%				M192P2239R8	192P2239R8
C804	.1 50V 10%				EWFO5010	431P1049R5
C805	.0022 50V 10%			WMF05P1	M192P2229R8	192P2229R8
C808	.0033 125V 5%			CD19FD332J03	SX233	MMA-332
C810	390 N1500 500V 10%		DTX-391	DPMS6D33	CN15-339	10TCW-T39
C811	.0033 500V 10%				EWFA1A17	6PS-Q33
C812	330 N1500 500V 10%		DTX-331	DPMS2S47	EWFA1A17	10TCW-T33
C816	.047 50V 10%				EWFA1A17	1PB-S47
C817	.01 2KV	65A110-327				306A-S10
C818	.01 500V 10%			DPMS6S1	EWFA1A17	6PS-S10
C819	.39 400V	63A103-2				PP4-P39
C824	390 N1500 500V 10%	63A101-18	DTX-391		CN15-339	10TCW-T39
C900	.047 125V AC			ST6S47		
C901	.001 1KV					
C1000	100 NPO 500V 5%		DD-102	NP0100	GP210	10TS-D10
C1001	100 NPO 500V 5%		DTZ-100	NP0100	CN0310	10TCC-T10
C1002	100 NPO 500V 5%		DTZ-100	NP0100	CN0310	10TCC-T10
C1003	560 500V 10%		DD-561		GP356	10TS-T56
C1004	560 500V 10%		DD-561		GP356	10TS-T56
C1005	560 500V 10%		DD-561		GP356	10TS-T56
C1006	.01 2KV	65A110-327				306A-S10
C1007	.1 400V			DPMS4P1	EWFA1A17	4PB-P10
C1100	3.3 NPO 500V ±.25	65A402-339-1				
C1101	2.7 NPO 500V ±.25	65A402-279-1				
C1102	2.7 NPO 500V ±.25	65A402-279-1				

#For SAFETY use only equivalent replacement part.

ADMIRAL CHASSIS
3M46-1B/1-D/-2B/2D/7M46-1D/-2D

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
# R103	Focus	30Meg	75A108-10 75C108-10(5)			
# R151A	Focus	30Meg	75A108-13			
# B	Brightness (Front)	1000	75A195-63 75D195-63(5)			
# R153A	Pre-set Brightness (Rear)	1000	75A118-99(18)			
# B	Brightness	500	75A195-60			
# R154A	Tint (Front)	250K	75D195-60(5)			
# B	Pre-set Tint (Rear)	250K	75A118-97(18)			
# R154A	Tint	250K	75A195-61			
# B	Color (Front)	5000	75D195-61(5)			
# R156	Color (Pre-set)(Rear)	5000	75A118-98(18)			
# B	Color	5000	75A118-99			
# R161	Contrast	500	75D118-99(5)			
# R161	Volume/Switch	25K	75A203-9 75D203-9(5) 75A218-1(19)			
# R218	Volume/Switch	25K	75A216-3	T-100K	MTC15L1	X260R104B
R301	41.25MHz Trap	100K	75A216-2	T-25K	MTC253L1	X260R253B
R401	AGC Delay	25K	75A216-2	T-10K(3)	MTC14L1(3)	U260R103B
R410	Tilt	5000	75A101-64(5)	T-5000	MTC53L1	X201R502B
R410	Color Killer	100K	75D101-63(5)	T-100K	MTC15L1	X201R104B
R438	APC	25K	75A216-1	T-25K(3)	MTC253L1(3)	U260R253B
R446	ACC	25K	75A216-1	T-25K(3)	MTC253L1(3)	U260R253B
R604	Vert Size	500K	75A101-76	T-500K	MTC55L1	X201R504B
R626	Vert Linearity	15K	75D101-76(5)			
R700	Video Level (Pre-set)	3000	75A101-77	T-15K	MTC153L1	
R709	Brightness Limiter	10K	75D101-77(5)			
R809	Horiz Lock	4000	75A101-73	T-2500	MTC33L1	X201R302B
R1001	G2	2Meg	75D101-73(5)			
R1011	Set-up (Blue/Green)	100K	75A101-72	T-10K	MTC14L1	X2D1R103B
R1013	Set-up (Gray Scale)	100K	75D101-72(5)			
R1015	Blue Bias	200	75A101-78	T-5000	MTC53L1	X201R502B
			75D101-78(5)			
			75A209-4	T-2Meg	MTC26L1	X260R205B
			75A209-3	T-100K	MTC15L1	X201R104B
			75A209-3	T-100K	MTC15L1	X201R104B
			75A209-2	T200	MTC22L1	X201R251B

For SAFETY use only equivalent replacement part.
(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to terminal to PC board.
(5) Number on unit.
(18) Used in Models using Chassis 3M46-181 and 3M46-2B1.
(19) Used in 13" models.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
# R102	51M Tap @ 25.5M		61A71-2	# R811	10K 5% 5W F11m		61A155-103
# R105	10 10% 5W WW	5W-SQ-10	61A105-100	# R814	2200 10% 5W WW	5W-SQ-2.25K	61A105-222
# R106	2.7 10% 10W WW		61A110-159	# R820	91 5% 5W WW		
# R107	2.7 10% 10W WW	5W-SQ-1K	61A110-159	# R822	100 10% 5W WW	5W-SQ-100	61A105-101
# R113	1000 10% 5W WW		61A105-102	# R900	18.5 Cold PTC	FR605	61A52-7
# R623	360 5% 10W WW		61A134-361	# R902	470 10% 3W WW		61A103-471
# R808	12.7K 1% 1/4W F11m		60A127-127				

For SAFETY use only equivalent replacement part.

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.	
DL700	Delay Line	72A426-4			
L100	RF Choke (11uH)	73A87-2		9330-24	
L103	RF Choke (1.8uH)	73A53-231		74F186AP	
L200	Video IF Input	72A427-33			
L201	Video IF Input	72A427-32			
L202	Video IF Input	72A427-32			
L203	Video IF Input	72A427-32			
L204	47.25MHz Trap	72A427-28			
L205	41.25MHz Trap	72A427-28			
L206	Video IF Input	72A427-16			
L207	Video IF	72A427-12			
L208	39.75MHz Trap	72A427-28			
L209	Video IF	72A427-12			
L210	RF Choke (1.3uH)	73A53-328			
L211	RF Choke (12uH)	73A252-2		9310-38	
L212	RF Choke (3uH)	73A92-1		72F125AP	
L213	45.75MHz Null	72A427-12			
L215	RF Choke (2.2uH)	73A55-86		72F226AP	
L300	RF Choke (12uH)	73A53-251		72F125AP	
L400	RF Choke (15uH)	73A55-58		72F155AP	
L401	Peaking (47uH)	73A55-59		72F475AP	
L402	RF Choke (18uH)	73A252-1		9320-35	
L403	RF Choke (6.8uH)	73A55-57		74F686AP	
L404	Chroma Take-Off	73A135-4		C0-1136	
L500	RF Choke (12uH)	73A53-251		72F125AP	
L501	Sound Detector	72A429-2		S1-1048	
L702	RF Choke (5.6uH)	73A53-343			
L1000	Peaking (33uH)	73A45-361		74F335A1	
L1001	Peaking (33uH)	73A45-361		74F335A1	
L1002	Peaking (33uH)	73A45-361		74F335A1	
L1003	Peaking (12uH)	73A53-251		72F125AP	
L1004	Peaking (12uH)	73A53-251		72F125AP	
L1005	Peaking (12uH)	73A53-251		72F125AP	
L1100	RF Choke	73A37-25			
L1101	RF Choke	73A37-25			
L1102	RF Choke	73A37-24			
T150	8a1un	72A422-1			
T200	4.5MHz Trap	72A429-3			
T201	AFT (Pri.)	72A419-4			
T202	AFT (Sec.)	72A419-3			
T400	Chroma Bandpass	73A137-2			

COILS & TRANSFORMERS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA				
		MFGR. PART No.	OTHER IDENTIFICATION	MILLER PART No.	THORDARSON PART No.	TRIAD PART No.
# L104	Yoke Horiz 2mH 90° Vert 100mH	(1)	89-2746-00			
# T101	Horiz Output	79A202-1	79D202-1A			
T600	Pincushion Reactor	79A196-2	79D196-2F			
T800	Horiz Driver	79A167-4	T-79C167-4-W			

For SAFETY use only equivalent replacement part.
(1) Part of CRT.

ADMIRAL CHASSIS
3M46-1B/1-1D/-2B1/2D/7M46-1D/-2D

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