



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license. (Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL 55XLR

MANUFACTURER'S SPECIFICATIONS

GENERAL

Input Voltage	13.8 VDC nom. (negative ground).
Current Drain	<i>Transmit:</i> 2.0A. <i>Receive:</i> 1.5A. <i>AM Radio:</i> 1.5A. <i>FM Radio:</i> 1.5A. <i>Tape Player:</i> 1.5A.
Size	7¼ x 3 x 5-3/8" deep.
Weight	4.9 lbs. (2.2kg.).
Antenna Connector	UHF, SO239.
Semiconductors	21 transistors, 3 field effect transistors, 20 diodes, 2 LED's and 1 diode in the microphone, and 8 integrated circuits.
Meter	Illuminated; indicates relative power output and received signal strength on CB mode.

CB SECTION

TRANSMITTER

Power Output	4 watts.
Frequency Response	300 to 3000 Hz.
Output Impedance	50 ohms, unbalanced.
Harmonic Suppression	Better than 60 dB.
Channels	40.
Frequency Range	26.965 to 27.405 MHz.

Frequency Control	Phase Locked Loop (PLL)
Frequency Tolerance	0.005%.
Operating Temperature Range	-30° to +50°C.
Microphone, Remote	Remote control, plug-in type; dynamic; low impedance with indicator and Squelch control.

RECEIVER

Sensitivity	0.5µV.
Selectivity	5KHz at -6 dB.
Image Rejection	-60 dB.
IF Frequency	Double conversion, 1st: 10.695 MHz 2nd: 455 KHz.
Audio Output Power	4 watts per channel.
Frequency Response	300 to 3000 Hz.
Distortion	10%.

FM RADIO SECTION

FM Sensitivity	6µV.
FM Selectivity	300 KHz at -6 dB.
Stereo Separation	35 dB.
Audio Output	4 watts per channel.

COBRA MODELS 50XLR, 55XLR

Courtesy of the Manufacturer

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

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ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.8-volt DC input.

Connect low sides of test equipment to ground unless specified otherwise.

Connect 50-ohm dummy load or antenna before keying transmitter.

Connect Microphone.

Suggested Alignment Tools:

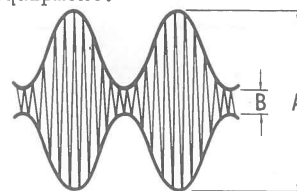
GC ELECTRONICS:

L101,L102,L103,L112 thru L117.....9440

L104,L105,L106.....5000,5009,8276,8728,8728A

L109.....5009,8728,8728A

VC101.....5000,8276



$$\text{Modulation Ratio} = \frac{A - B}{A + B} \times 100 (\%)$$

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP14 (L115 secondary).	Ch. 19	L115	Adjust for maximum RF output.
Input of frequency counter to TP14 (L115 secondary).	Ch. 19		Check for 10.240MHz.
Input of DC meter to TP12 (IC102, Pin 5).	Ch. 19	L116	Adjust for 1.40 volts.
Input of oscilloscope to TP16 (L117 secondary tap).	Ch. 19	L117	Adjust for maximum RF output.
Input of frequency counter to TP16 (L117 secondary tap).	Ch. 1		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP17 (TR102(TR117)Emitter).	Ch. 19	VC101	Adjust for 36.570MHz.
Input of frequency counter to TP13 (IC101, Pin 17).	Ch. 1		Check for 1.090MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP15 (TR109 gate).	Ch. 19, XMT	L114	Adjust for maximum RF output.
Input of oscilloscope to TP15 (TR109 gate).	Ch. 19, XMT		Check for 10.695MHz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.

Adjust volume control to obtain a suitable indication.

Set generator output low enough to prevent AGC limiting.

LOC/DX Switch DX, ANL Switch Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP18 (TR103 base). 455kHz,1000Hz @ 30% modulation.	Ch. 19, Squelch MINIMUM	L106,L105, L104	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19, Squelch MINIMUM	L103,L102, L101	Adjust for maximum output. If necessary readjust L104, L105 and L106.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
LOC/DX Switch DX, ANL Switch Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 50,000uV.	Ch. 19, Squelch MINIMUM	VR1	AGC Set Volume VR102 for 0db. Decrease signal generator output to 50uV. Adjust so that audio does not drop more than 10db.
Output of signal generator thru .01uF to Antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 5000uV.	Ch. 19, Squelch MAXIMUM	VR3	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, Squelch MINIMUM	VR4	S METER Adjust for 9 on SIG scale of panel meter.

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L113, L112	Adjust for maximum RF output.
	Ch. 19	L109	Adjust for 4.0 watts RF output maximum.

TRANSMITTER ADJUSTMENTS

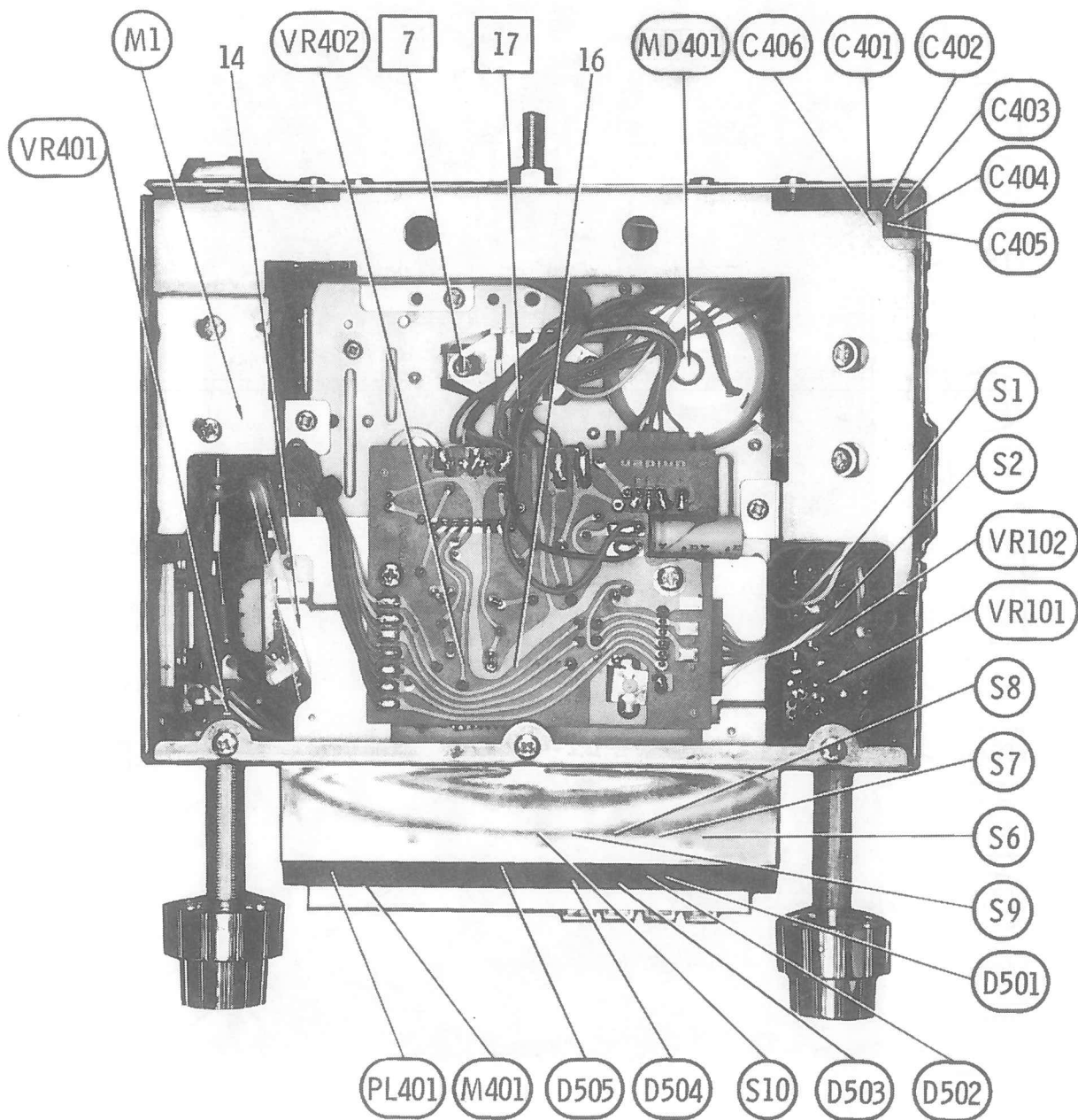
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz 10mV signal at mic input.	Ch. 19	VR5	AMC Adjust for 100% modulation maximum. See figure 1.
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna jack.	Ch. 19	VR2	RF METER Adjust so that panel meter agrees with RF wattmeter.

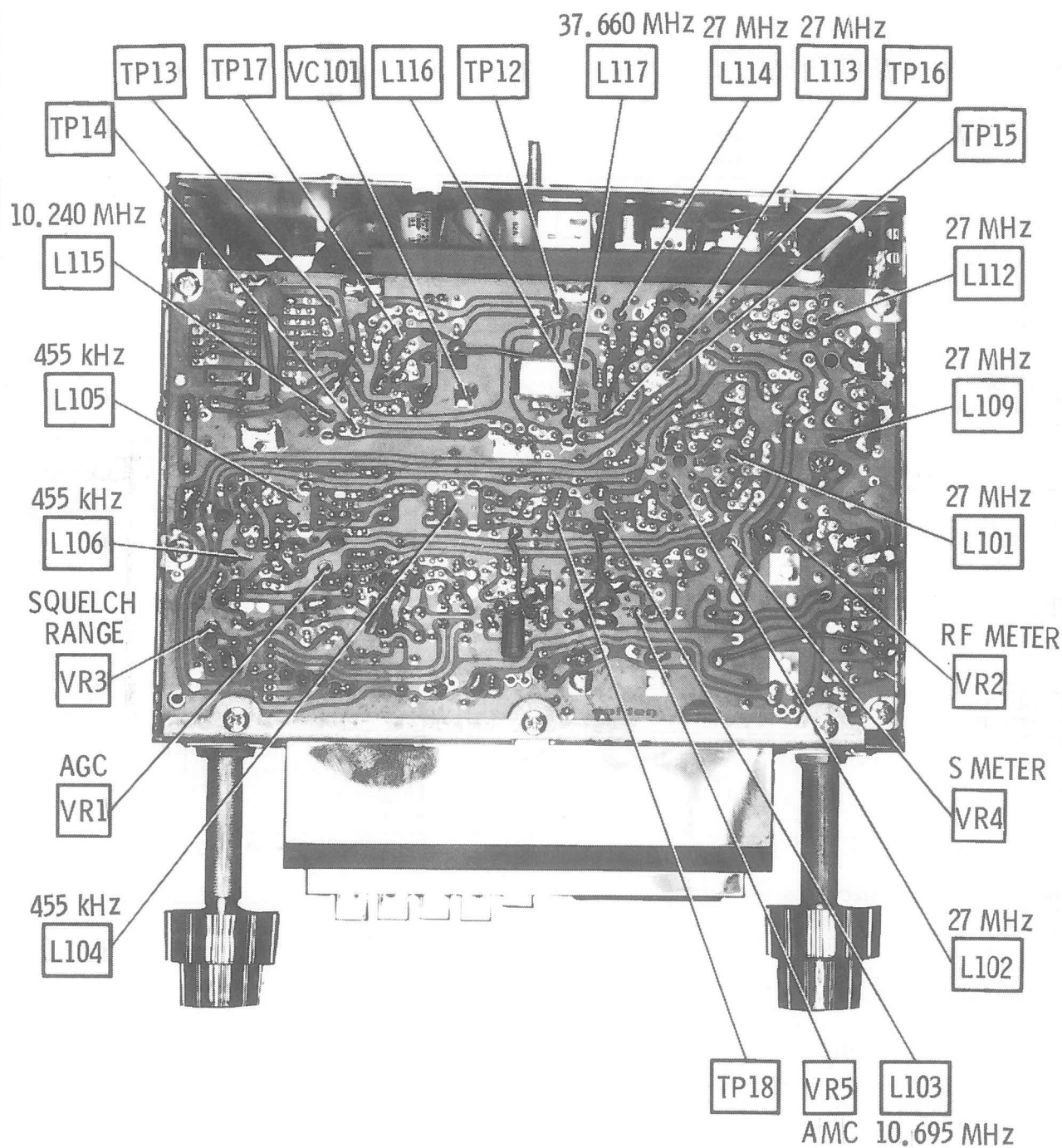
TRUTH CHART

C H A N N E L	1 = 5.00 Volts 0 = 0 Volts IC101 PROGRAM DIVIDER								Rec & XMT VCO OUTPUT IN MHz AT TP16	DIVIDER INPUT IN MHz AT TP13	
	PINS										
	10	11	12	13	14	15	16				
1	1	1	0	1	1	0	1		37.660	1.090	
2	1	1	0	1	1	1	0		37.670	1.100	
3	1	1	0	1	1	1	1		37.680	1.110	
4	1	1	1	0	0	0	1		37.700	1.130	
5	1	1	1	0	0	1	0		37.710	1.140	
6	1	1	1	0	0	1	1		37.720	1.150	
7	1	1	1	0	1	0	0		37.730	1.160	
8	1	1	1	0	1	1	0		37.750	1.180	
9	1	1	1	0	1	1	1		37.760	1.190	
10	1	1	1	1	0	0	0		37.770	1.200	
11	1	1	1	1	0	0	1		37.780	1.210	
12	1	1	1	1	0	1	1		37.800	1.230	
13	1	1	1	1	1	0	0		37.810	1.240	
14	1	1	1	1	1	0	1		37.820	1.250	
15	1	1	1	1	1	1	0		37.830	1.260	
16	0	0	0	0	0	0	0		37.850	1.280	
17	0	0	0	0	0	0	1		37.860	1.290	
18	0	0	0	0	0	1	0		37.870	1.300	
19	0	0	0	0	0	1	1		37.880	1.310	
20	0	0	0	0	1	0	1		37.900	1.330	
21	0	0	0	0	1	1	0		37.910	1.340	
22	0	0	0	0	1	1	1		37.920	1.350	
23	0	0	0	1	0	1	0		37.950	1.380	
24	0	0	0	1	0	0	0		37.930	1.360	
25	0	0	0	1	0	0	1		37.940	1.370	
26	0	0	0	1	0	1	1		37.960	1.390	
27	0	0	0	1	1	0	0		37.970	1.400	
28	0	0	0	1	1	0	1		37.980	1.410	
29	0	0	0	1	1	1	0		37.990	1.420	
30	0	0	0	1	1	1	1		38.000	1.430	
31	0	0	1	0	0	0	0		38.010	1.440	
32	0	0	1	0	0	0	1		38.020	1.450	
33	0	0	1	0	0	1	0		38.030	1.460	
34	0	0	1	0	0	1	1		38.040	1.470	
35	0	0	1	0	1	0	0		38.050	1.480	
36	0	0	1	0	1	0	1		38.060	1.490	
37	0	0	1	0	1	1	0		38.070	1.500	
38	0	0	1	0	1	1	1		38.080	1.510	
39	0	0	1	1	0	0	0		38.090	1.520	
40	0	0	1	1	0	0	1		38.100	1.530	





CHASSIS-BOTTOM



CHASSIS-TOP

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
Connect low sides of generator and indicator to ground unless specified otherwise.
Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: GC ELECTRONICS:

CF3.....5000,5009,8276,8728,8728A
L4,L6,L8,L11.....5000,5009,8276,8728,8728A
VC1A,VC1B,VC3 thru VC6,VC401.....5000,8276

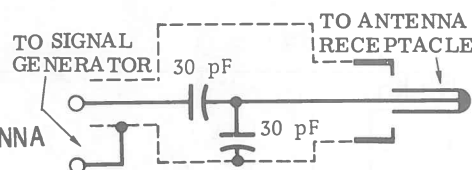
AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to antenna input.	455kHz 400-Hz mod.	High freq end stop	CF3,L8	Adjust for maximum.
Thru dummy antenna to antenna input.	540kHz 400-Hz mod.	540	L6	Adjust for maximum.
High side thru .1uF to antenna input.	1400kHz 400-Hz mod.	1400	VC4	Adjust for maximum.
Thru dummy antenna to antenna input.	1600kHz 400-Hz mod.	1600	VC5	Adjust for maximum.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust VC401 for maximum output. Antenna adjustment is located behind tape door on the left side.

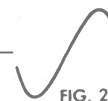
NOTE: On Model 50XLR adjust VC6 on rear of chassis.



FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to TP2 (TR2 base).
Use 60-hertz, frequency-modulated signal, 450kHz sweep.
Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
"	"	Vert input of scope to TP3 (IC1, Pin 6):	(1)L4,L11	Adjust L11 for maximum amplitude and straightness of line, similar to Fig. 2.



(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

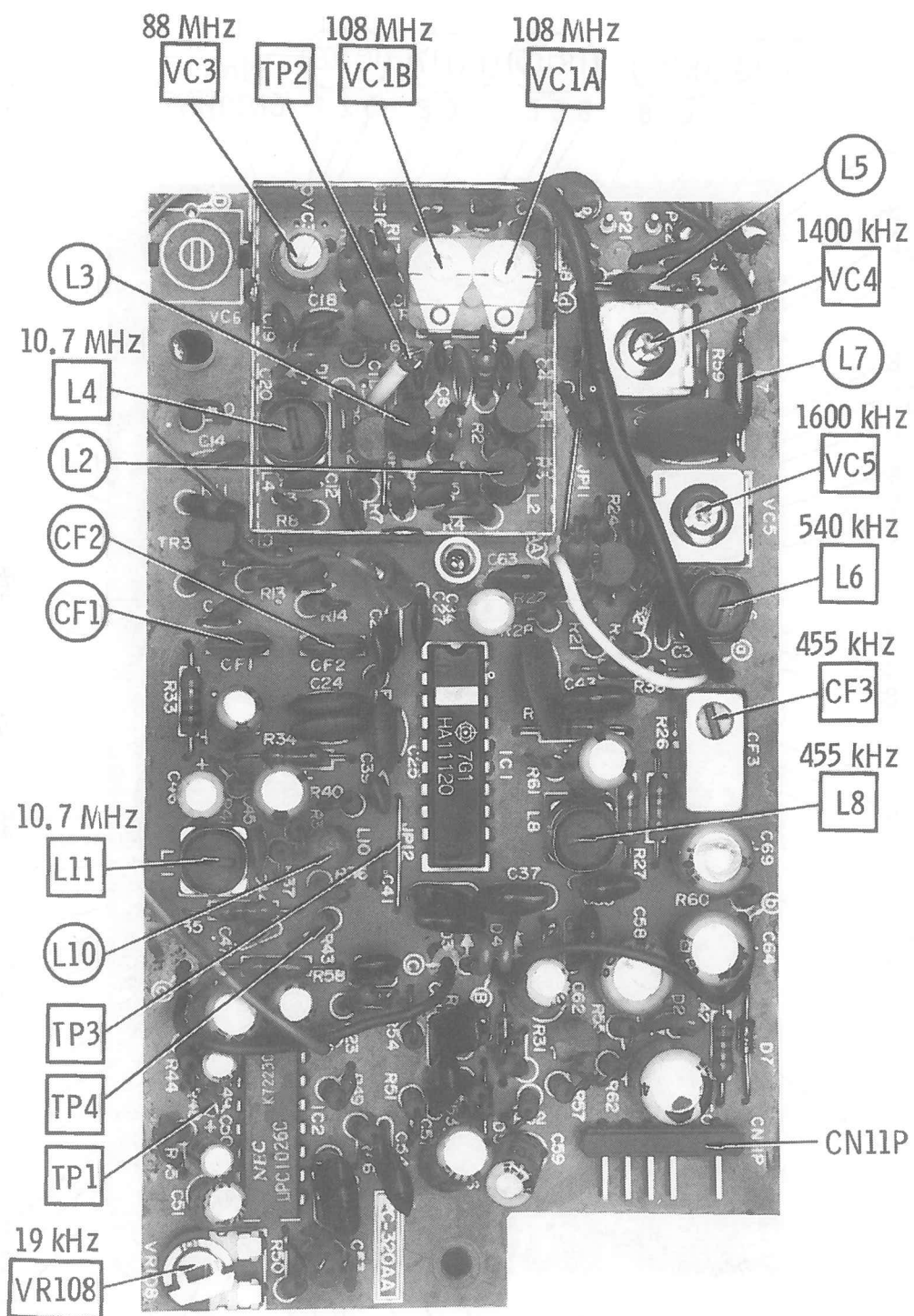
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.
Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Modulated	88MHz	AC probe of VTVM to TP4 (Junction of C48 and R43)	VC3	Adjust for maximum.
108MHz Modulated	108MHz	"	VC1A VC1B	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

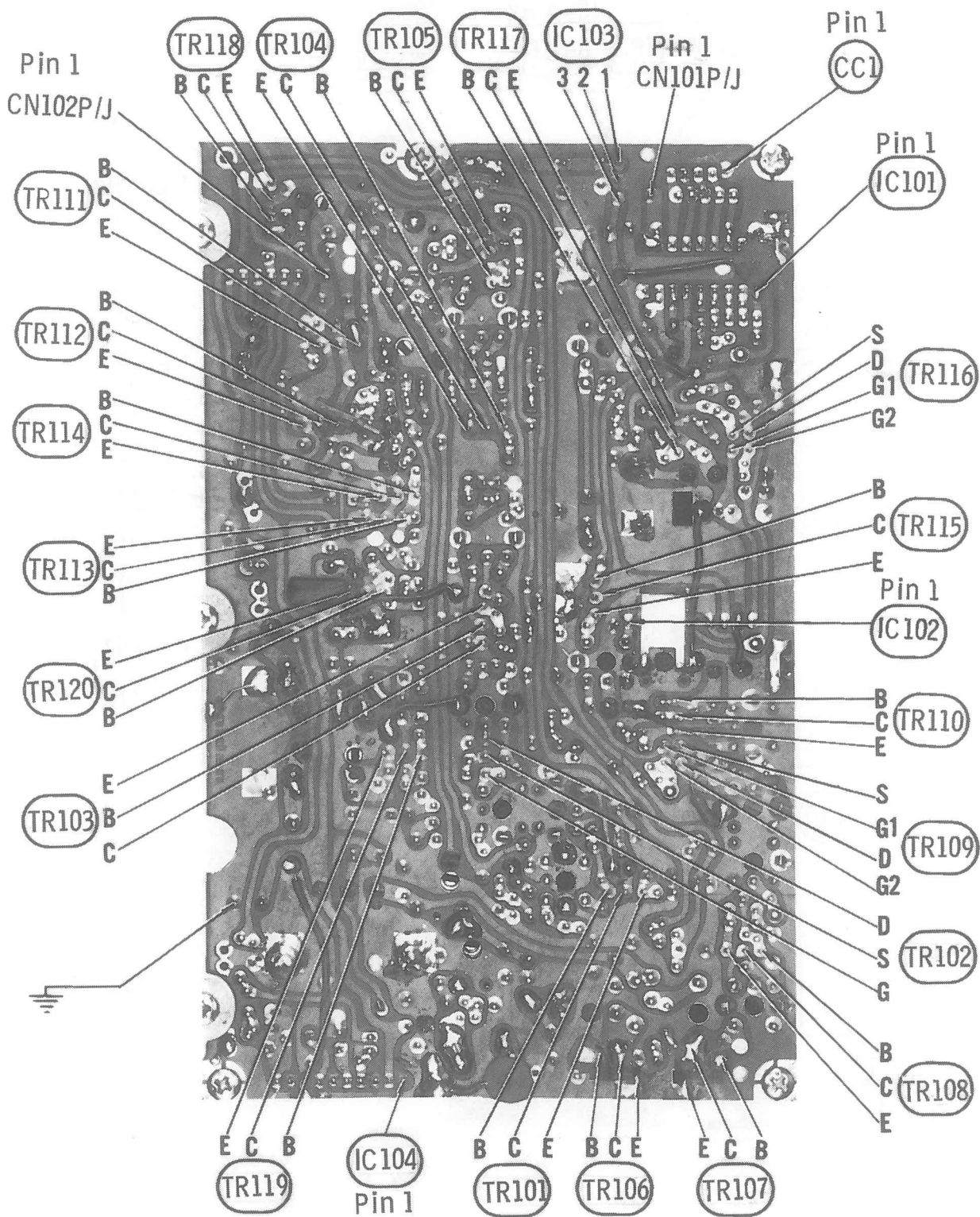
FM STEREO ALIGNMENT USING AUDIO GENERATOR

Connect TP4 to ground.

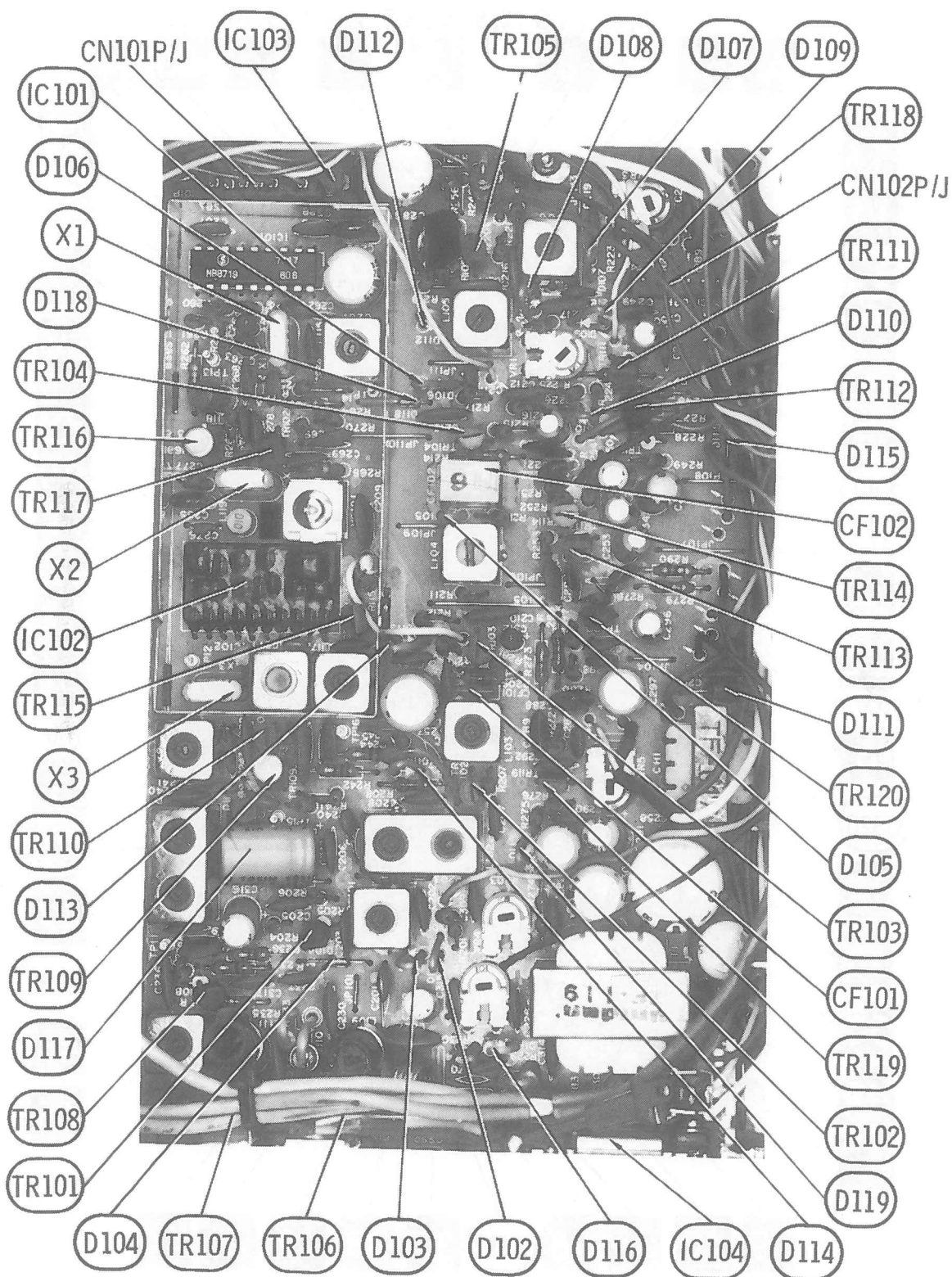
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Input of frequency counter to TP1 (Free end of R48).	VR108	Adjust for 19kHz \pm 20Hz.



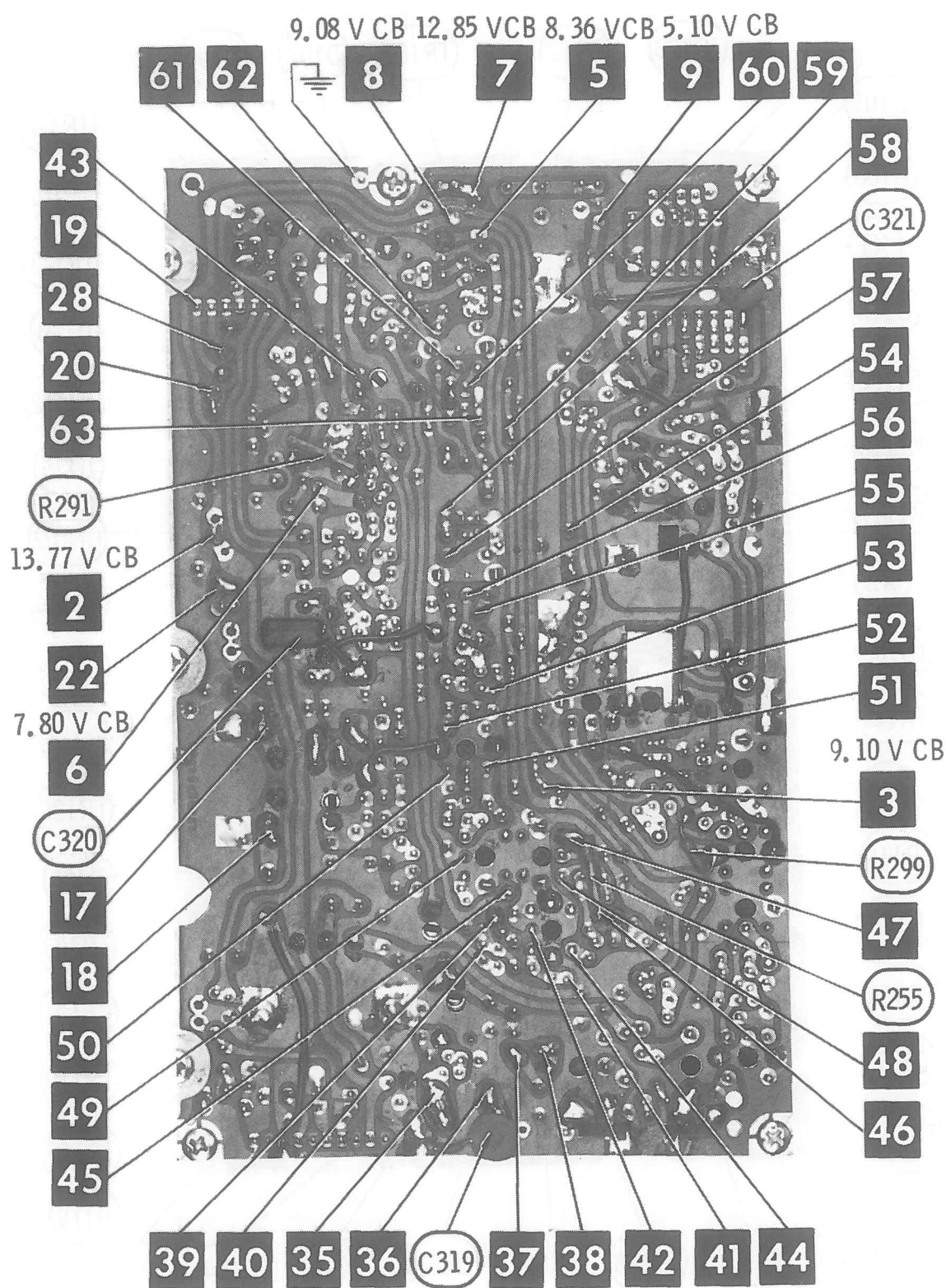
AM-FM BOARD



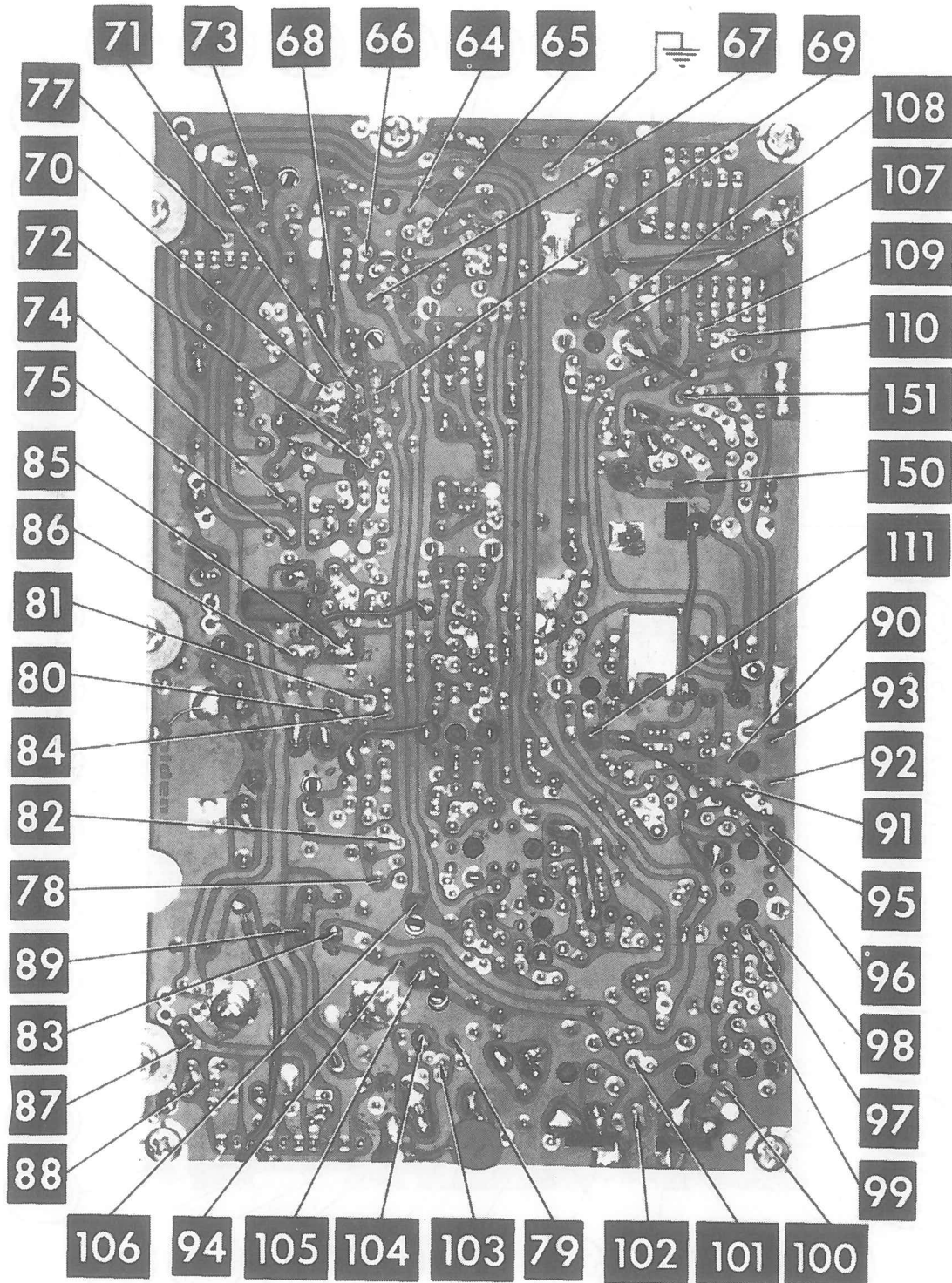
CB MAIN BOARD



CB MAIN BOARD

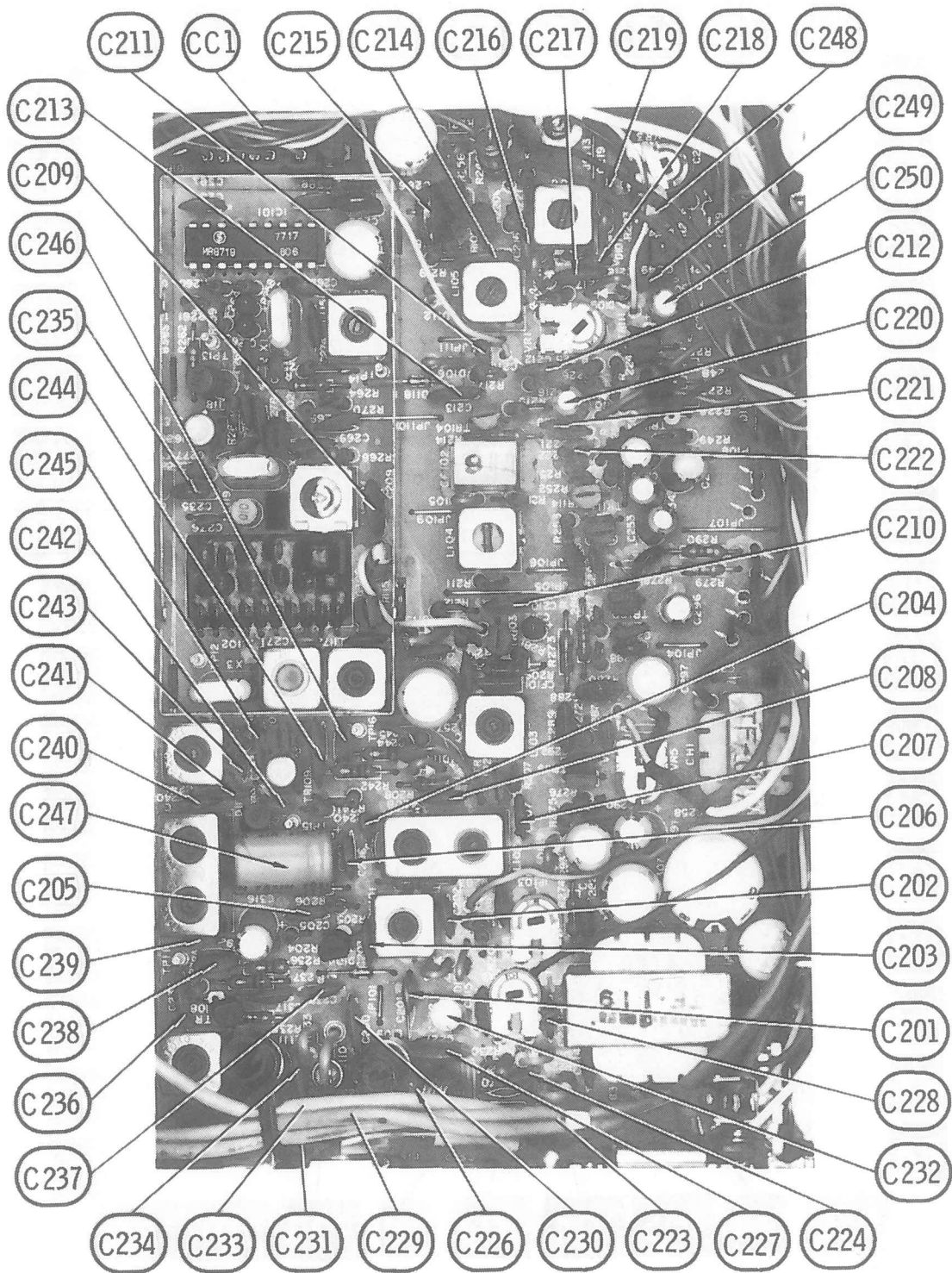


CB MAIN BOARD

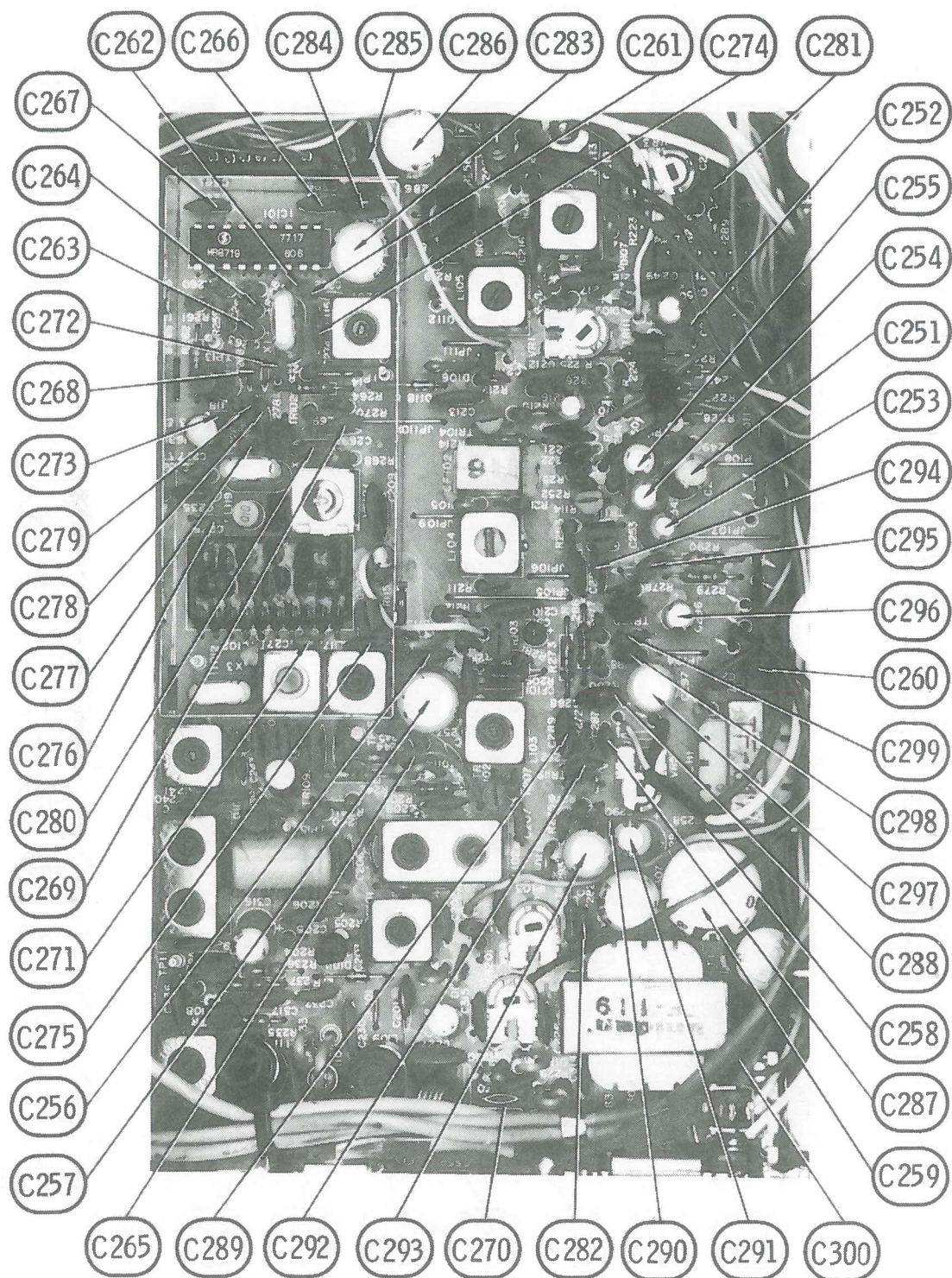


COBRA MODELS 50XLR, 55XLR

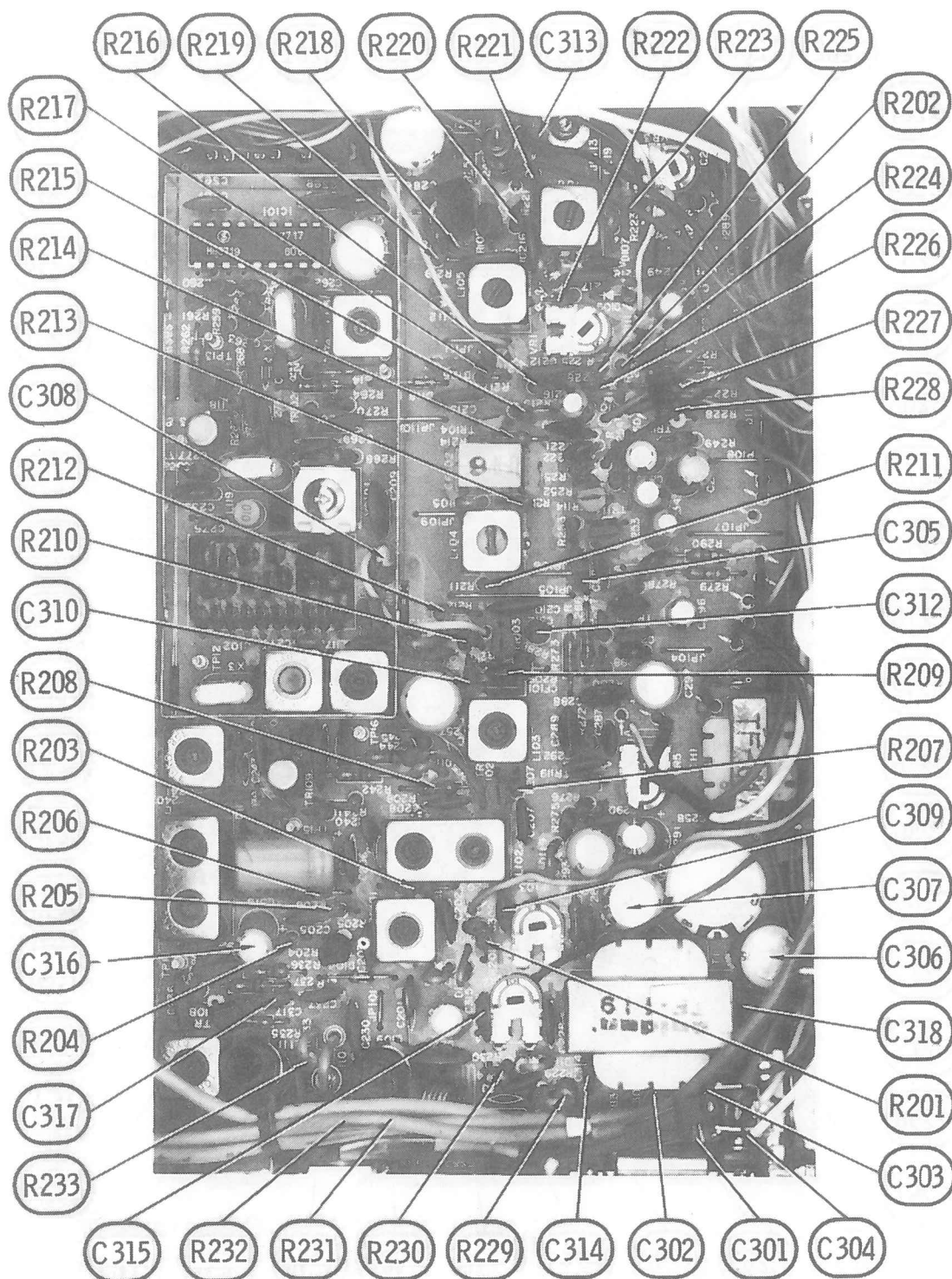
CB MAIN BOARD



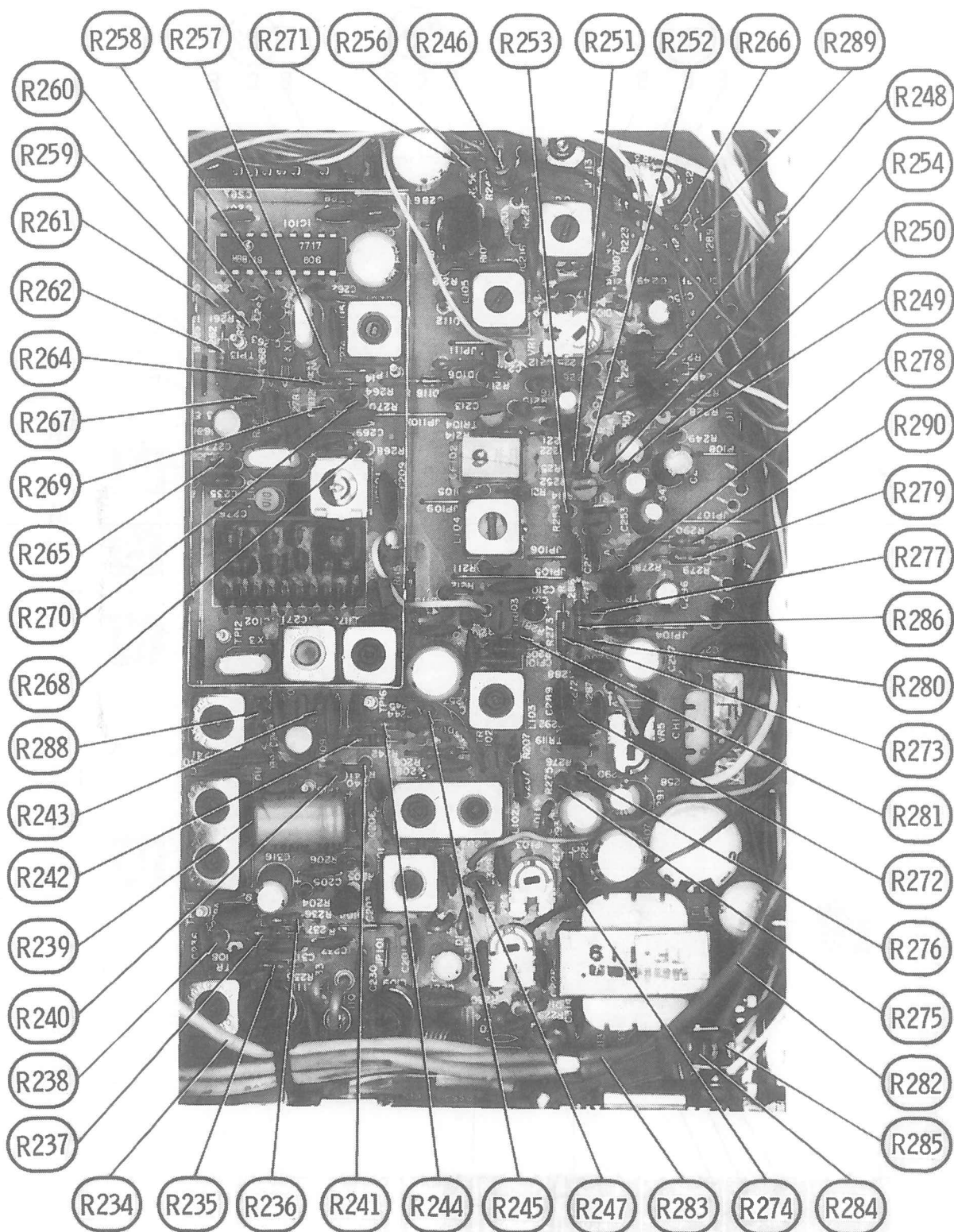
CB MAIN BOARD



CB MAIN BOARD



CB MAIN BOARD



CB MAIN BOARD



14

6.32 V FM

13

9.75 V BC

10

Pin 1

161

6.87 V FM

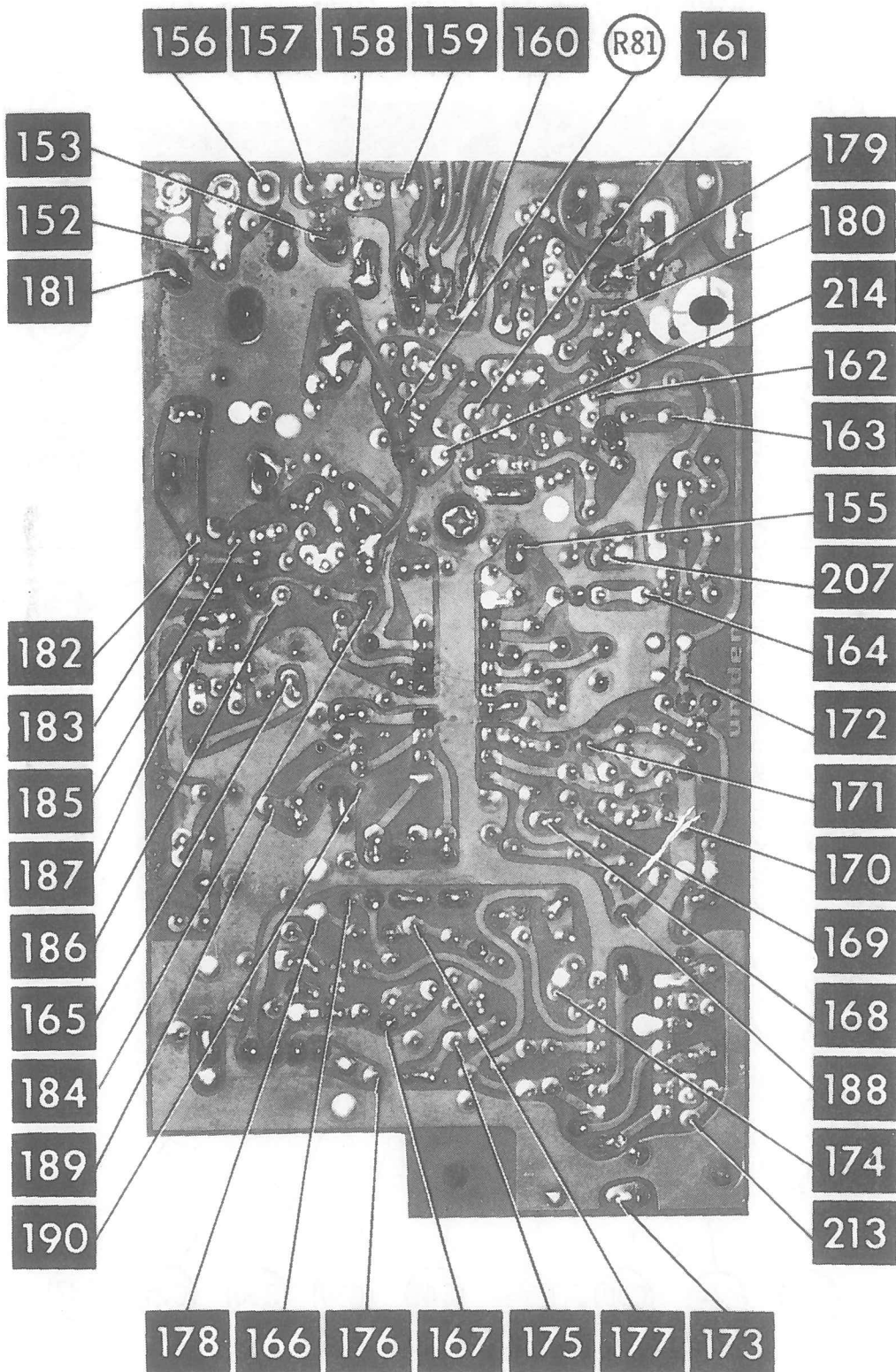
12

Pin 1

IC2

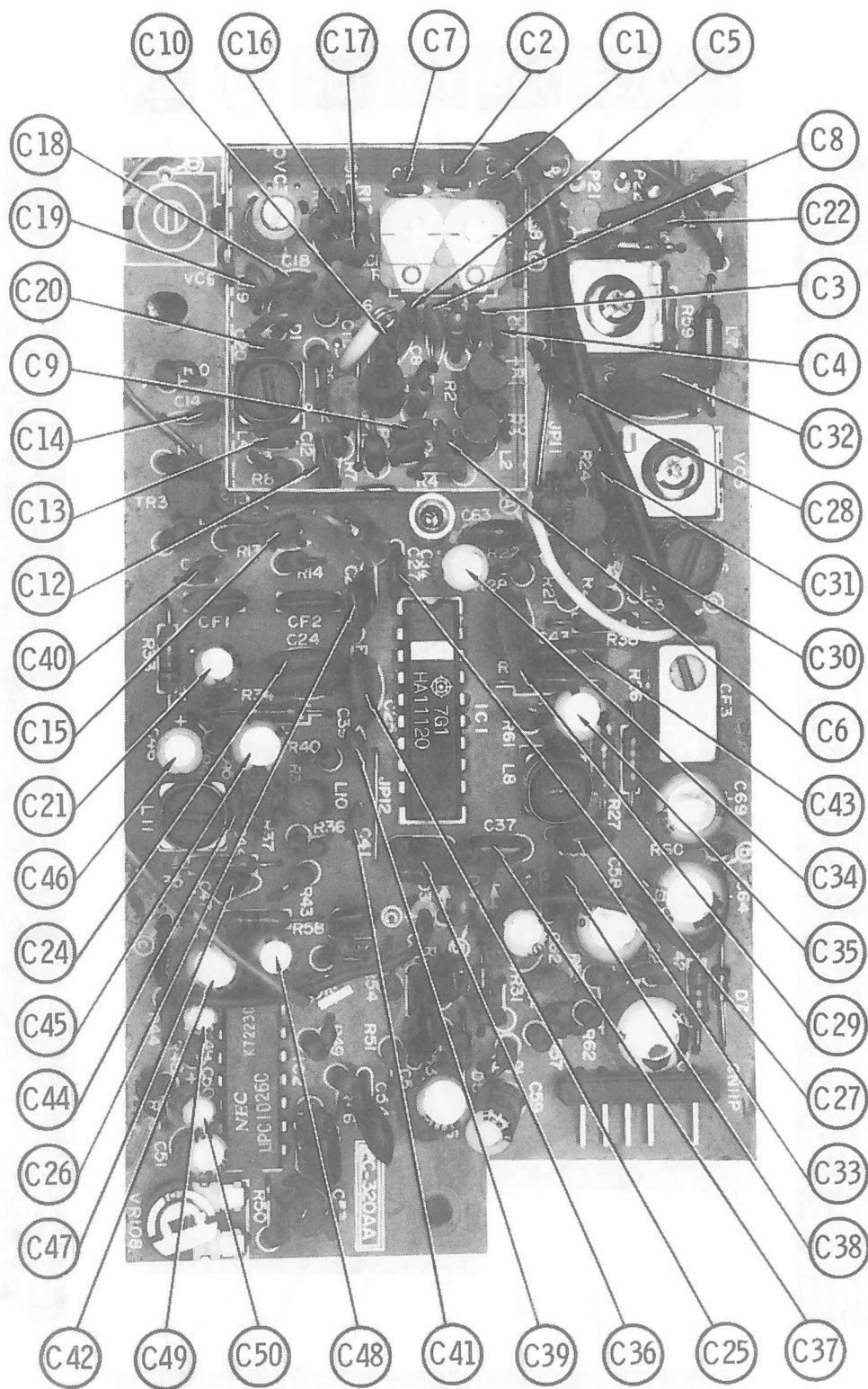
15 11
13.60 V FM 8.52 V FM

48

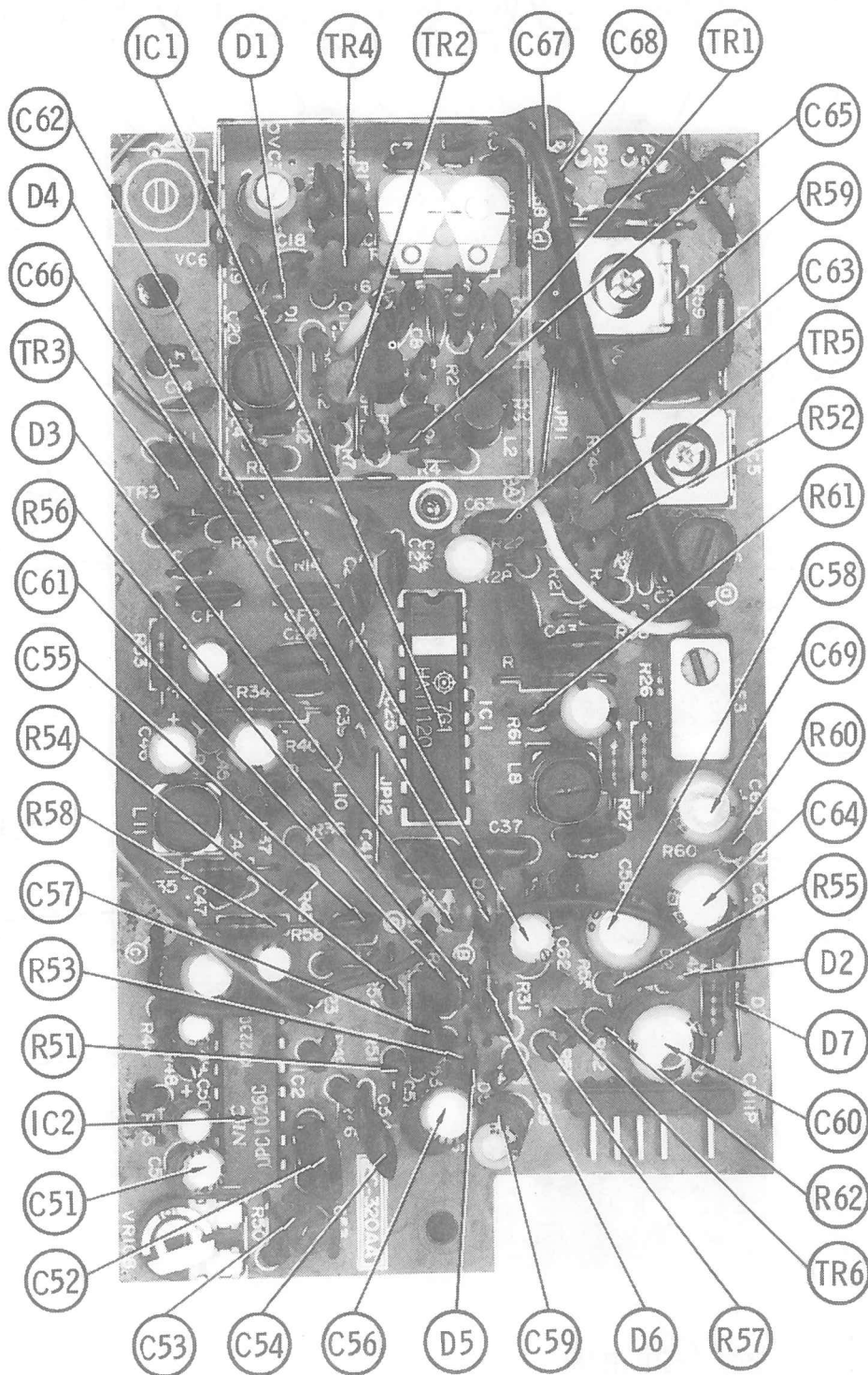


COBRA MODELS 50XLR, 55XLR

AM-FM BOARD

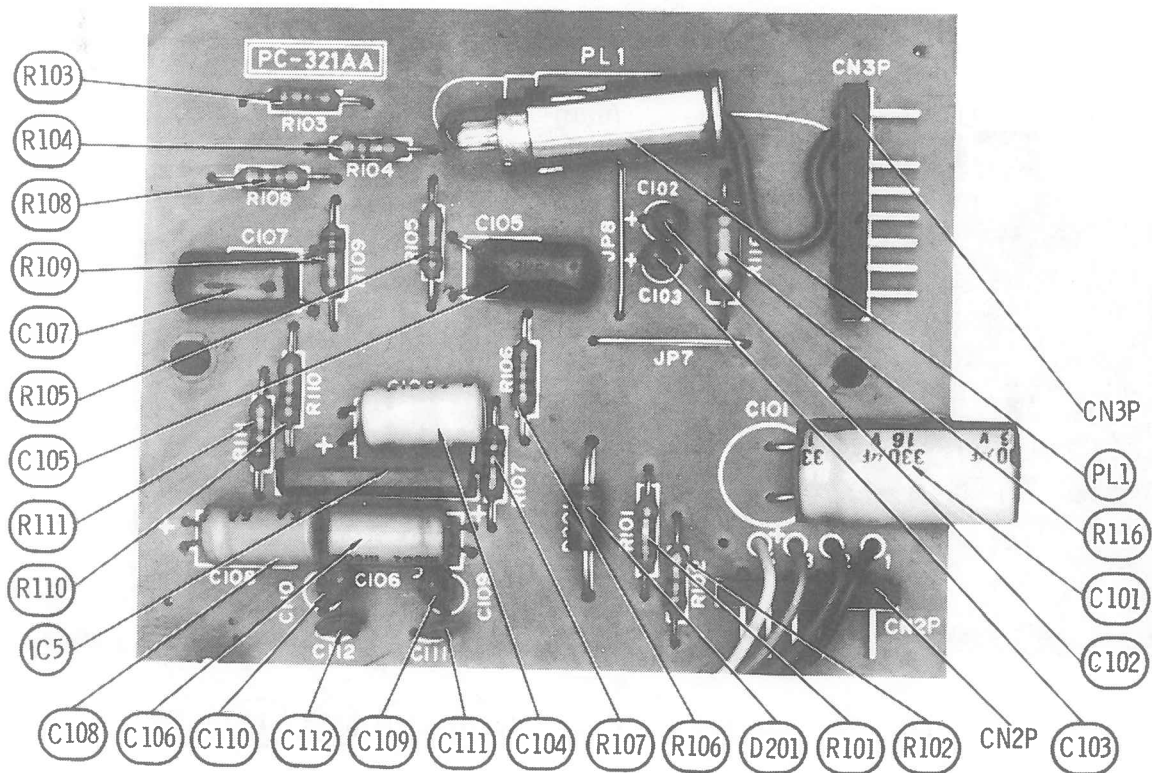
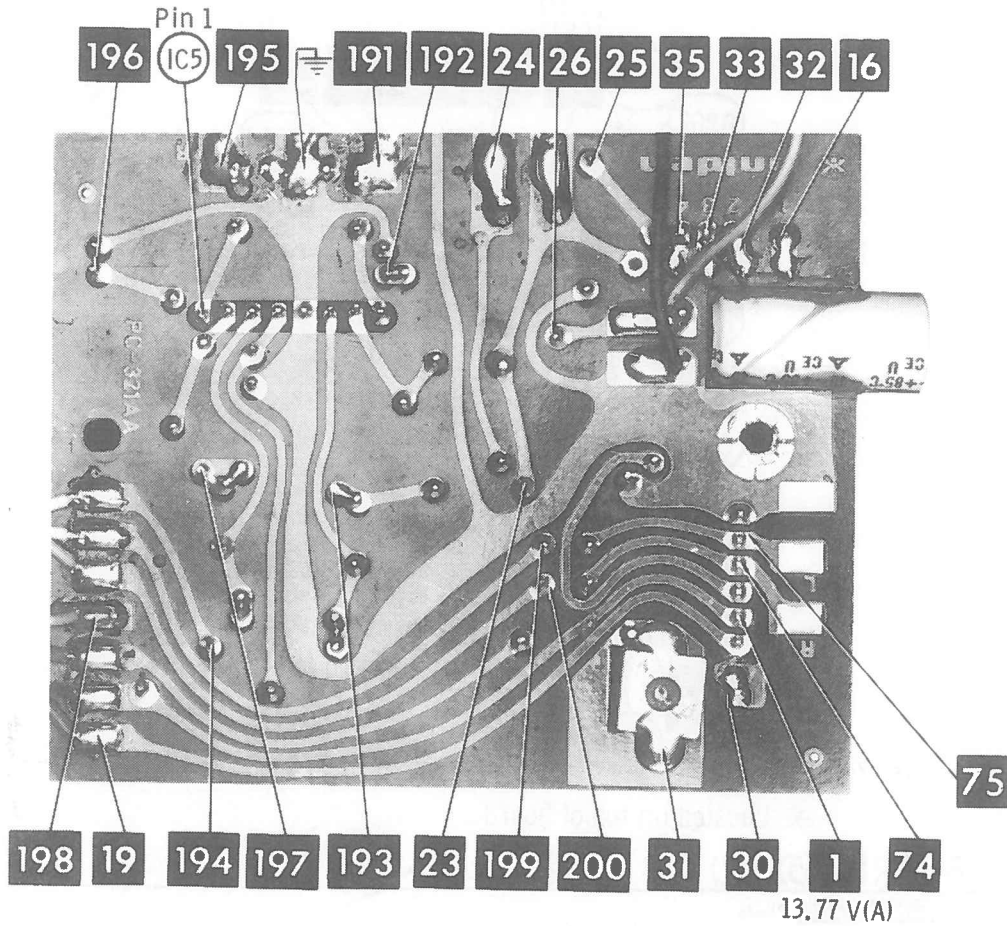


AM-FM BOARD



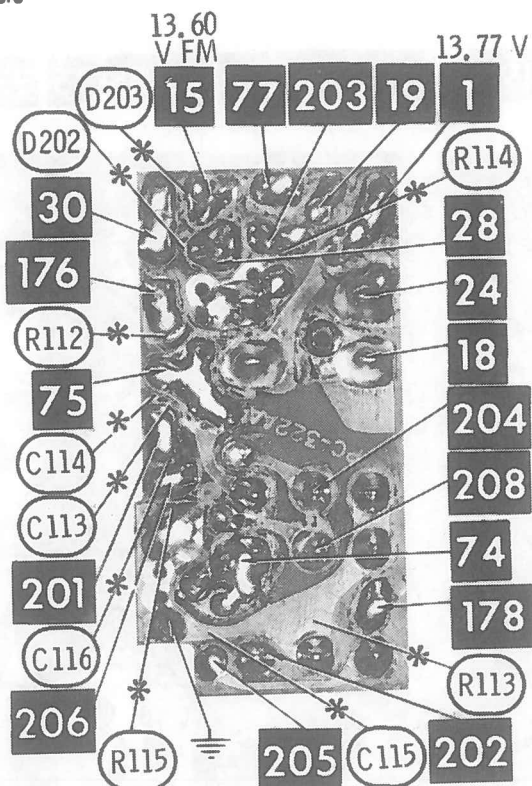
AM-FM BOARD





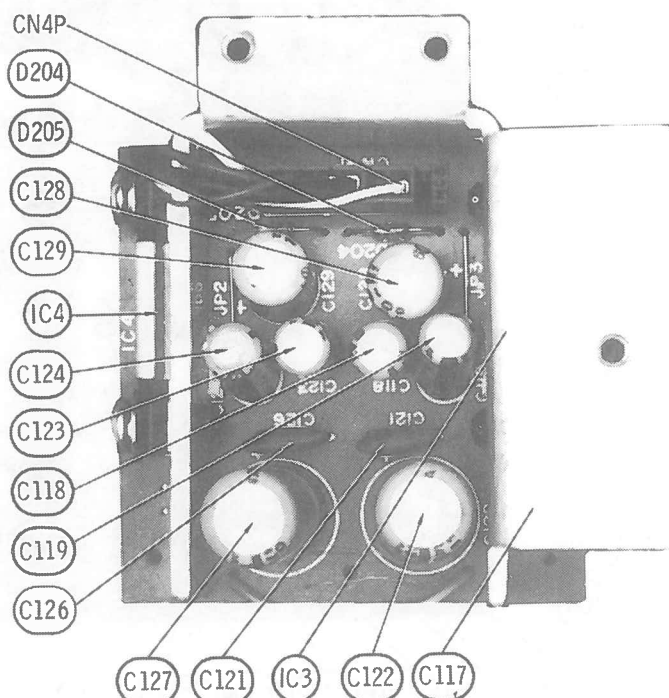
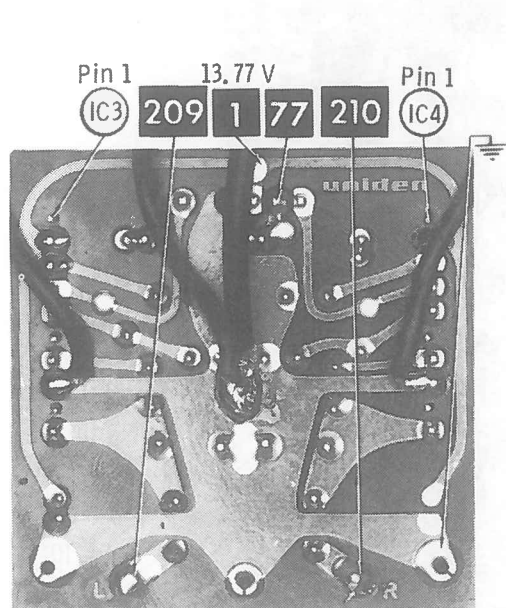
TAPE PREAMP BOARD (55XLR)

COBRA MODELS 50XLR, 55XLR

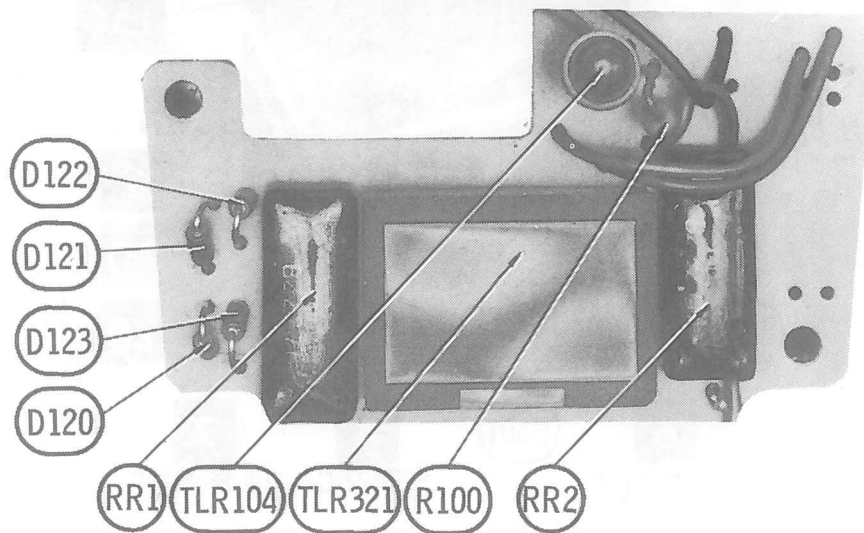
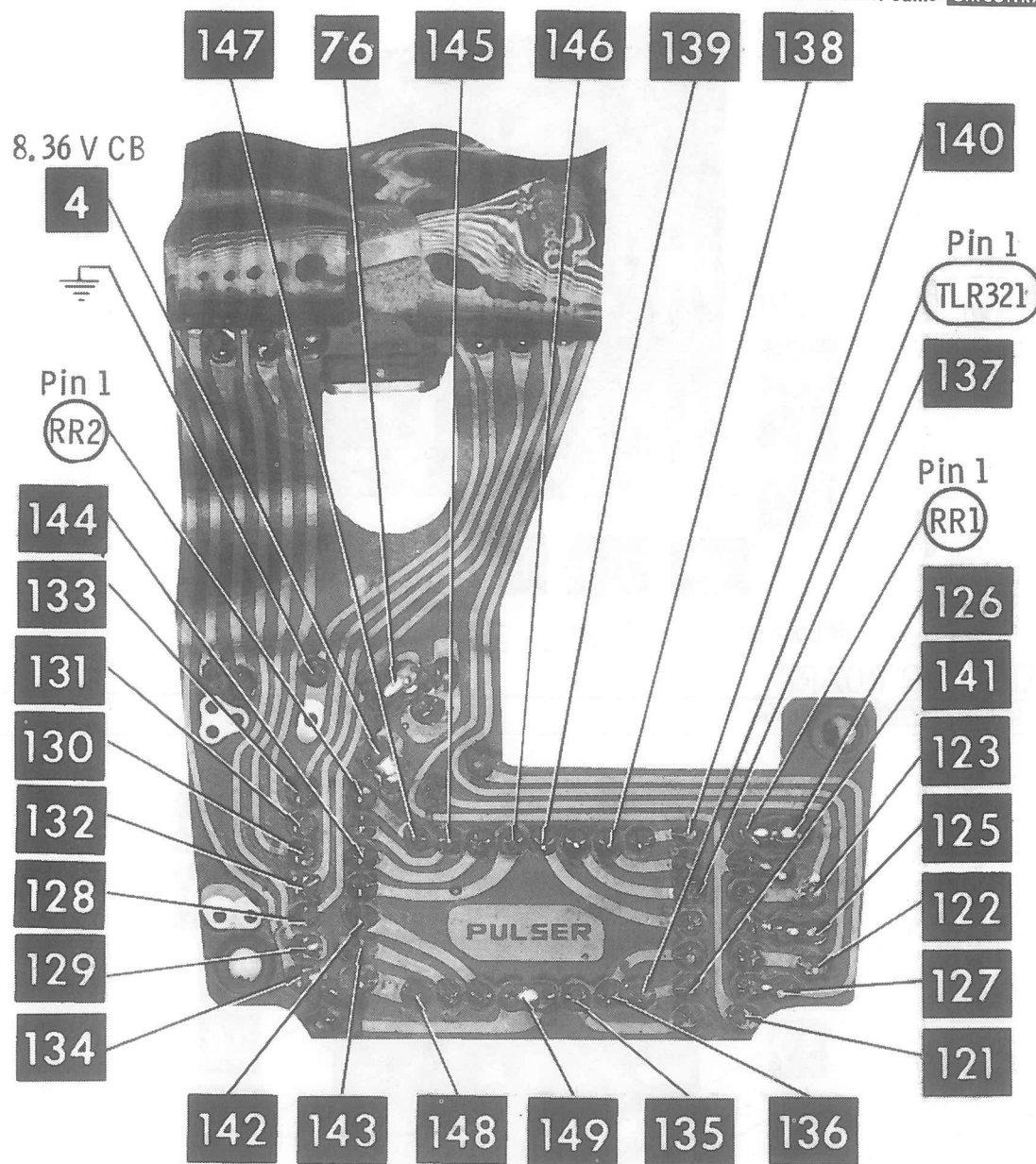


* Located on top of board

CONTROL BOARD (55XLR)

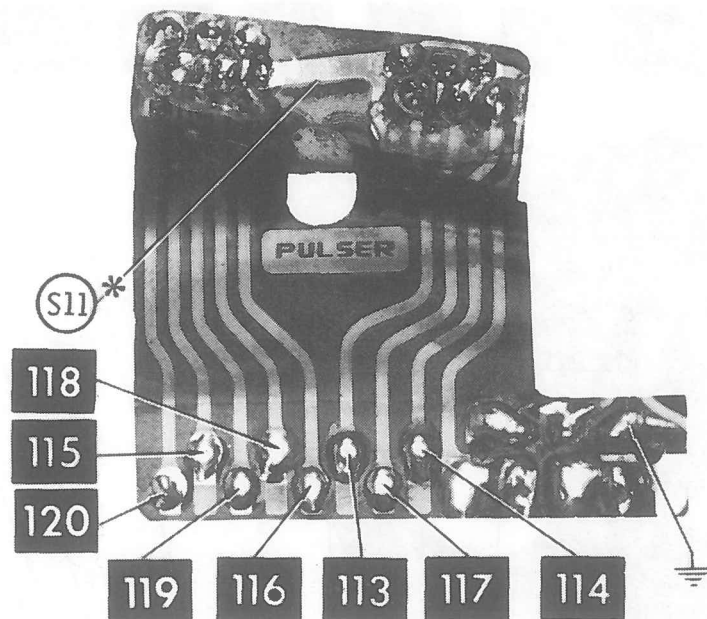


AUDIO BOARD (55XLR)



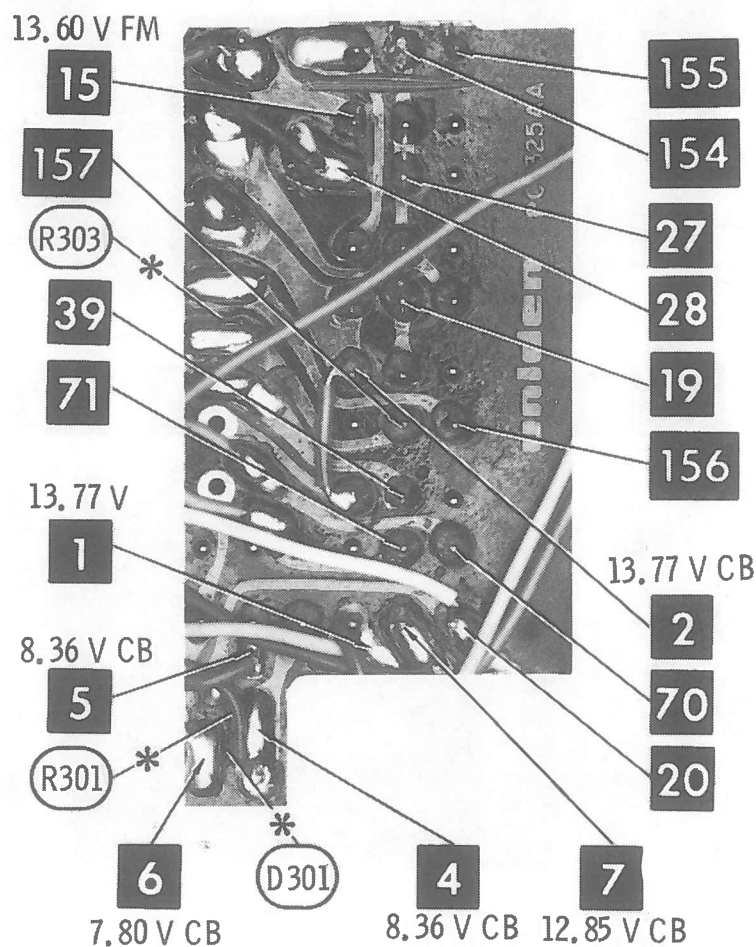
CH. SELECTOR & READOUT BOARD

COBRA MODELS 50XLR, 55XLR



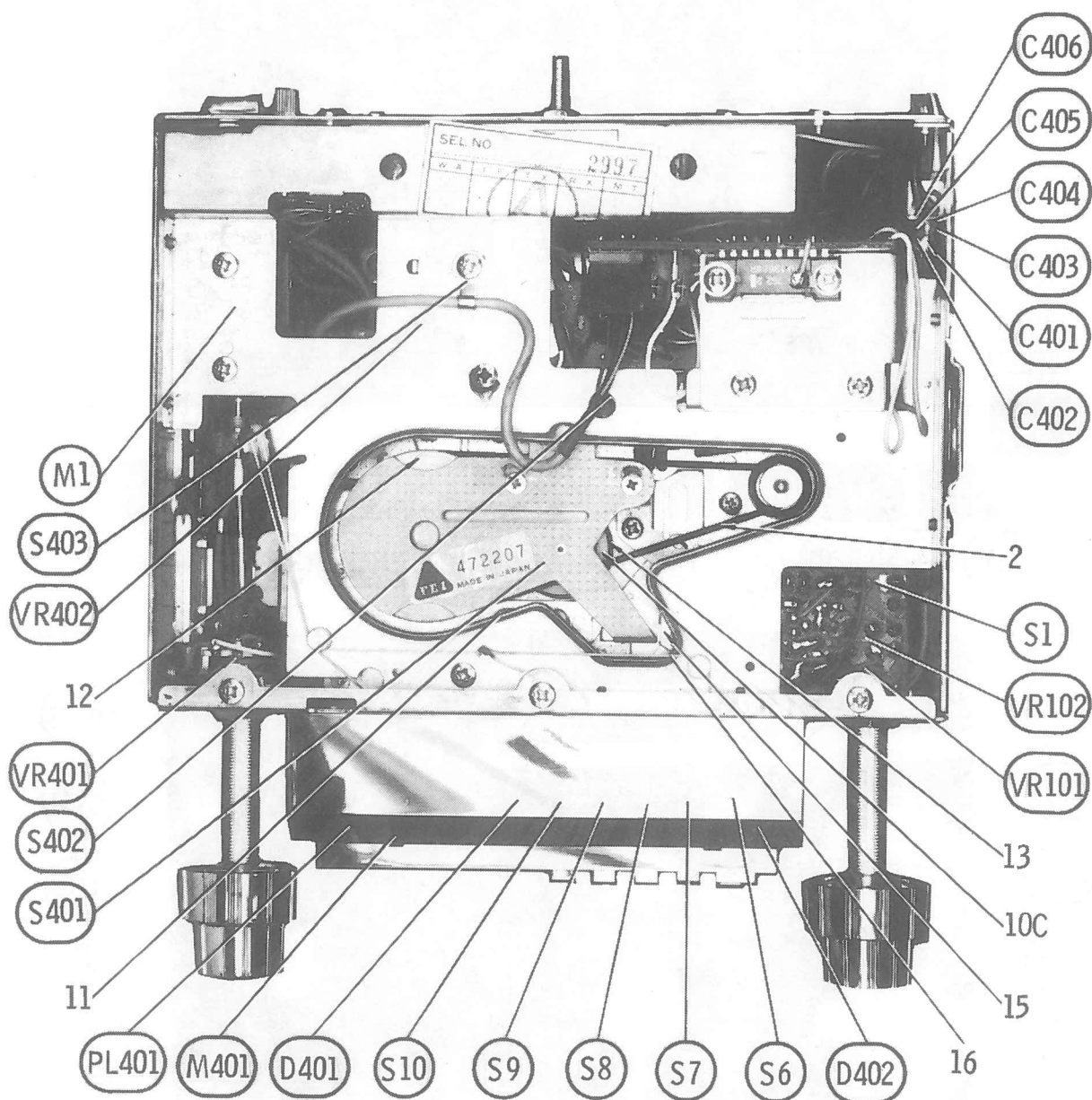
* Located on top of board

CH. SELECTOR BOARD

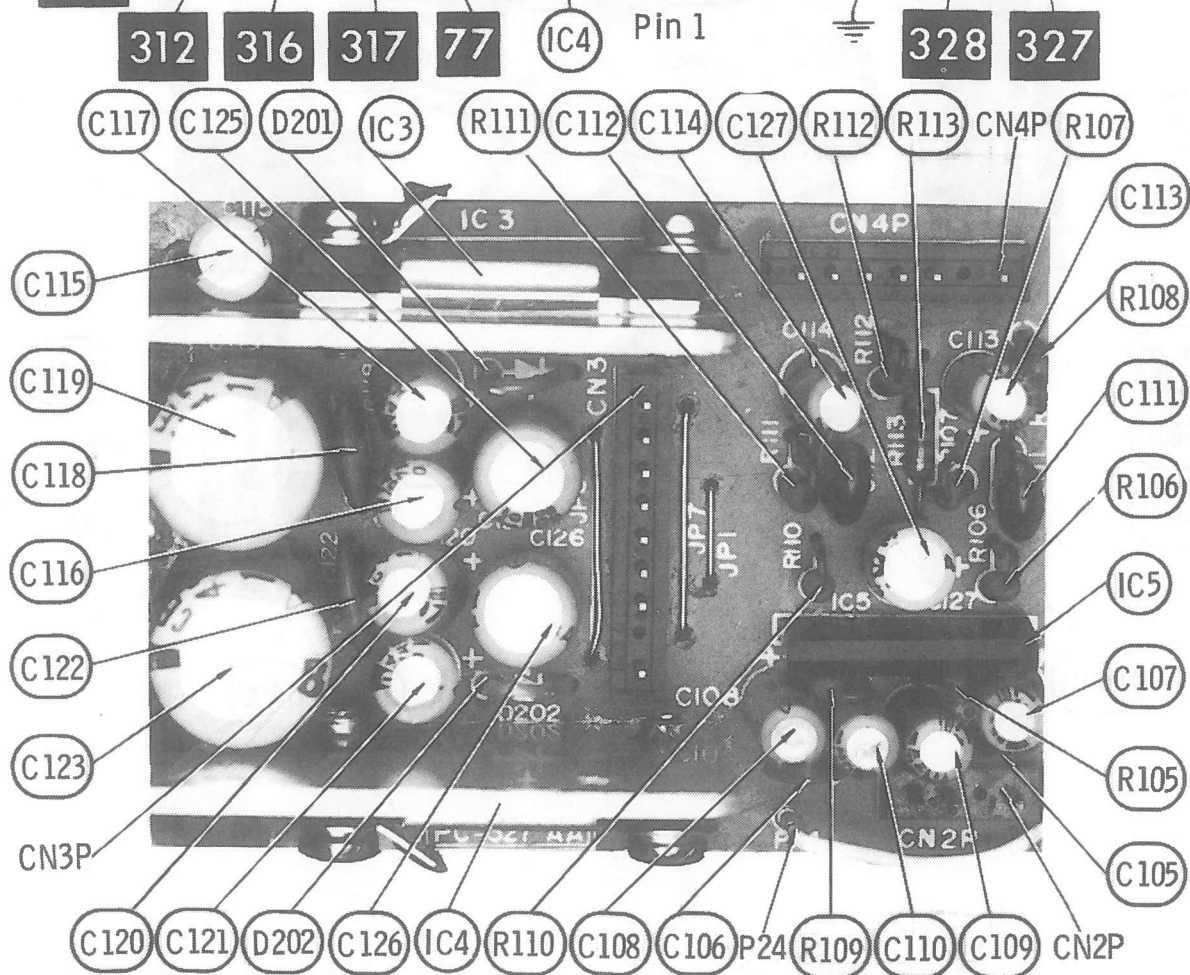
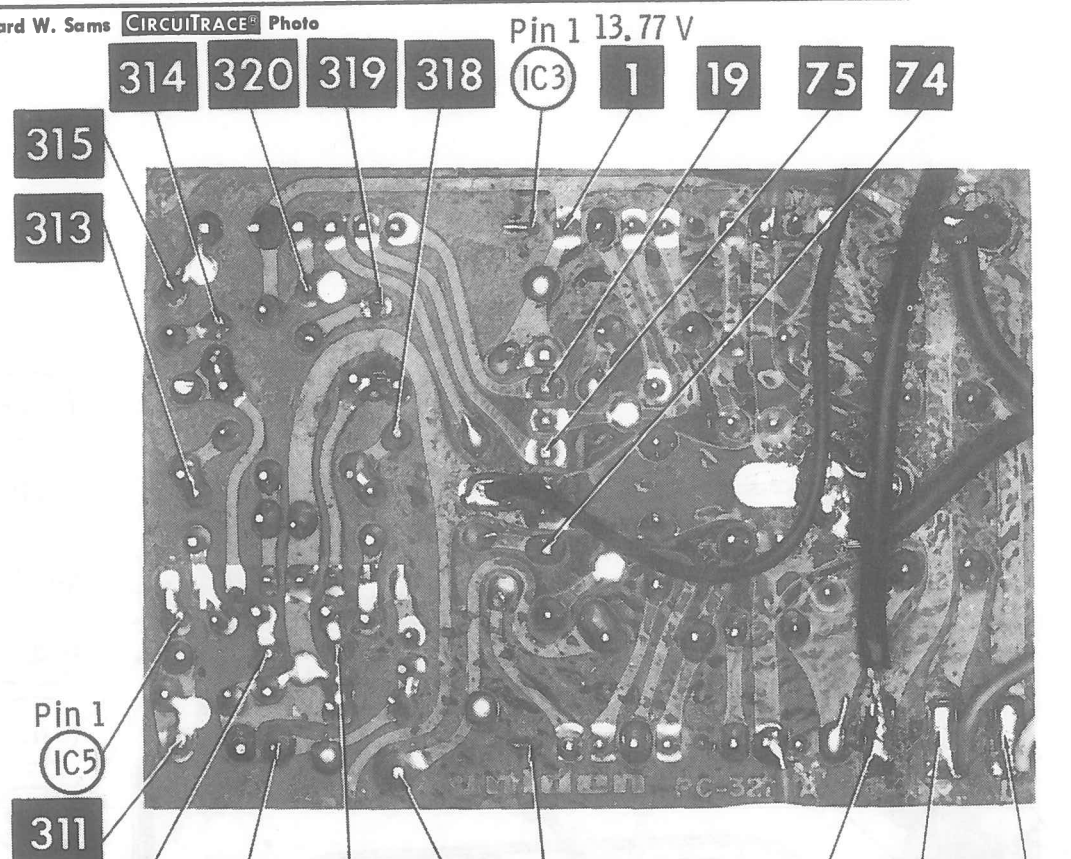


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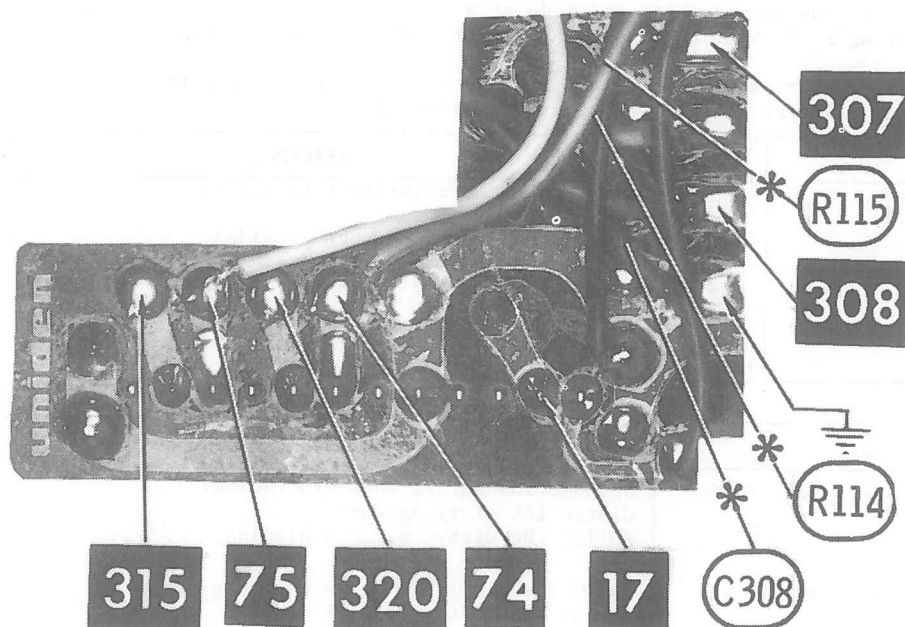
SWITCH BOARD



CHASSIS-BOTTOM (50XLR)



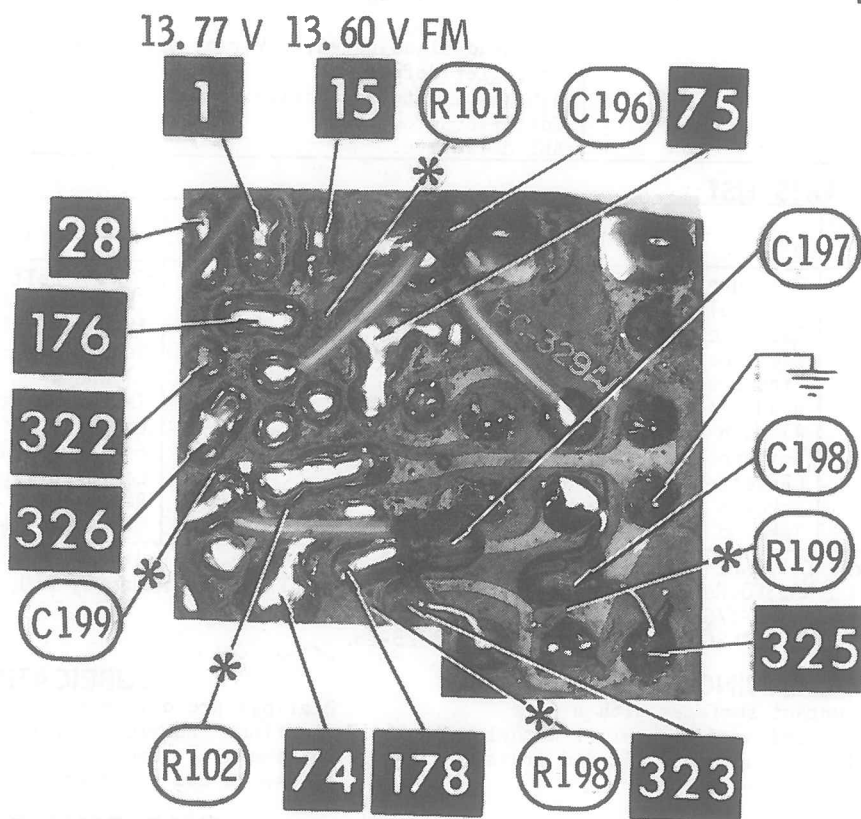
AUDIO BOARD (50XLR)



* Located on top of board

TAPE SWITCH BOARD (50XLR)

A Howard W. Sams CIRCUITRACE® Photo



* Located on top of board

CONTROL BOARD (50XLR)

COBRA MODELS 50XLR, 55XLR

ADJUSTMENTS

MODEL 50XLR,

1. All voltage measurements referred to in this chart are made at a tape speed of 1 7/8 ips with a digital meter.
2. All torque measurements are made at a tape speed of 1 7/8 ips with a spring scale applied to a point 1 inch . from spindle center.
3. All pressure measurements are made by using a spring scale to determine that point at which pressure is just removed.

ADJUST	REMARKS
Play Take-up Torque	Nominal value 1 oz. No adjustment provided.
Fast Forward Torque	Nominal value 1 oz. No adjustment provided.
Pressure Roller Pressure	Nominal value 14 oz. No adjustment provided.
Head Azimuth	Connect meter across speaker, play an azimuth-test tape and adjust Screw 8 for maximum output.

TROUBLE CHART

SYMPTOM	REMARKS
Take-up erratic or inoperative in Play.	Spindle 10A dirty, worn or binding. Clutch 10B dirty or worn. Pulley 10C dirty, worn or binding.
Take-up erratic or inoperative in fast forward	Spindle 10A dirty, worn or binding. Pulley 10C dirty, worn or binding. Clutch 10B dirty or worn. Belt 13 dirty, worn or broken.
Capstan does not rotate	Belt 2 dirty, worn or broken. Flywheel binding. Motor defective or not supplied with power.
Tape rides up and down between capstan and pressure roller.	Capstan bent. Roller 1 worn. Excessive take-up torque.
Sound weak or distorted	R/P head misadjusted, dirty or defective. Amplifier defective. Bias oscillator defective. Cassette defective. ARL defective.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	*	Pressure Roller*	10B	(1)	Clutch Felt
2*	*	Flywheel Drive Belt*	10C	(1)	Take-up Pulley
3		Cassette Guide	10D	(1)	Take-up Spring
4		Eject Lever	11		Head Plate Spring
5		Pressure Roller Spring	12		Flywheel
6		Head Plate	13*	*	Take-up Belt*
7		Azimuth Spring	14		Cassette Guide Release Arm
8		Azimuth Adjust Screw	15		Fast Forward Latch
9		Cassette Pressure Arm	16		Latch Spring
10		Take-up Spindle Assembly	17		Release Arm Spring
10A	(1)	Take-up Spindle	18		Cassette Pressure Arm Spring

* Pressure Roller - E-V/GAME Replacement Number 1499-70.
WALSCO Replacement Number 1499-70.

* Flywheel Drive Belt - E-V/GAME Replacement Number 1407-48.
WALSCO Replacement Number 1425-28.

* Take-up Belt - E-V/GAME Replacement Number 1407-35.
(1) Part of Assembly #10.

CLEANING

Clean all tape contact surfaces with a soft, lint-free material and head cleaner or methyl alcohol. Use alcohol to remove oil and grease from all driving surfaces.

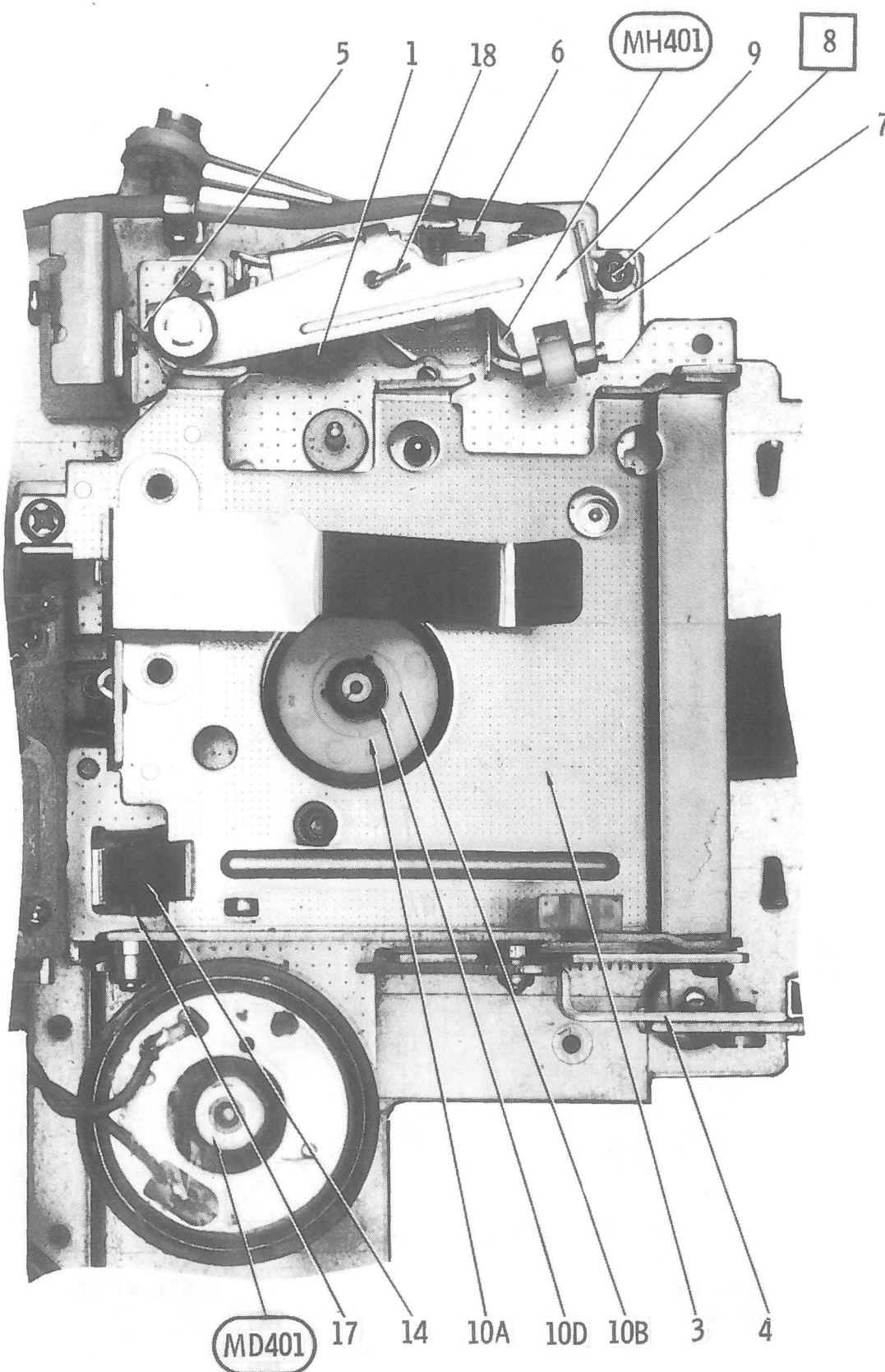
CAUTION: Avoid getting head cleaner on any plastic surface.

LUBRICATING

Bearings are oil-less type and do not need lubrication. Lubricate bushings lightly with #20 machine oil. Use a light film of nonhardening grease on cam surfaces.

HEAD DEMAGNETIZING

Demagnetize head when unit is serviced. Avoid using magnetic materials near head.



TAPE DECK (50XLR)

ADJUSTMENTS**MODEL 55XLR**

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust Screw 7 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust Collar 8 for proper response.
Head Zenith	Adjust Screw 17 until the face of the head is perpendicular to tape travel.

TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt 1 dirty, worn, or broken. Assembly 10 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch S401 dirty. Cam 3,5 binding or worn. Pawl 4 worn. Assembly 6 binding. Solenoid RY401 defective or not supplied with power. Cartridge defective. Springs 11, 12 weak or out of place.
Wow or flutter	Belt 1 dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective.
Sound weak or distorted	Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective.
Tape is pulled from cartridge.	Cartridge defective. Capstan dirty or scored.
Tape play intermittent or inoperative	Guide 18 worn or out of place. Detent 15 worn or binding. Spring 16 weak or out of place. Cartridge binding or defective.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	*	Flywheel Drive Belt*	10		Flywheel Bearing Assembly
2		Flywheel	11		Pawl Spring
3		Track Changing Cam	12		Head Lifting Spring
4		Pawl	14		Cartridge Detent Arm
5		Pawl Drive Cam	15		Cartridge Detent (Roller)
6		Head Shifting Assembly	16		Cartridge Detent Spring
7		Azimuth Adjust Screw	17		Zenith Screw
8		Height Adjust Collar	18		Cartridge Guide (Roller)
9		Azimuth Spring			(2 Used)

* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-65.
WALSCO Replacement Number 1424-15.

CLEANING

Clean all tape contact surfaces with a soft, lint-free material and head cleaner or methyl alcohol. Use alcohol to remove oil and grease from all driving surfaces.

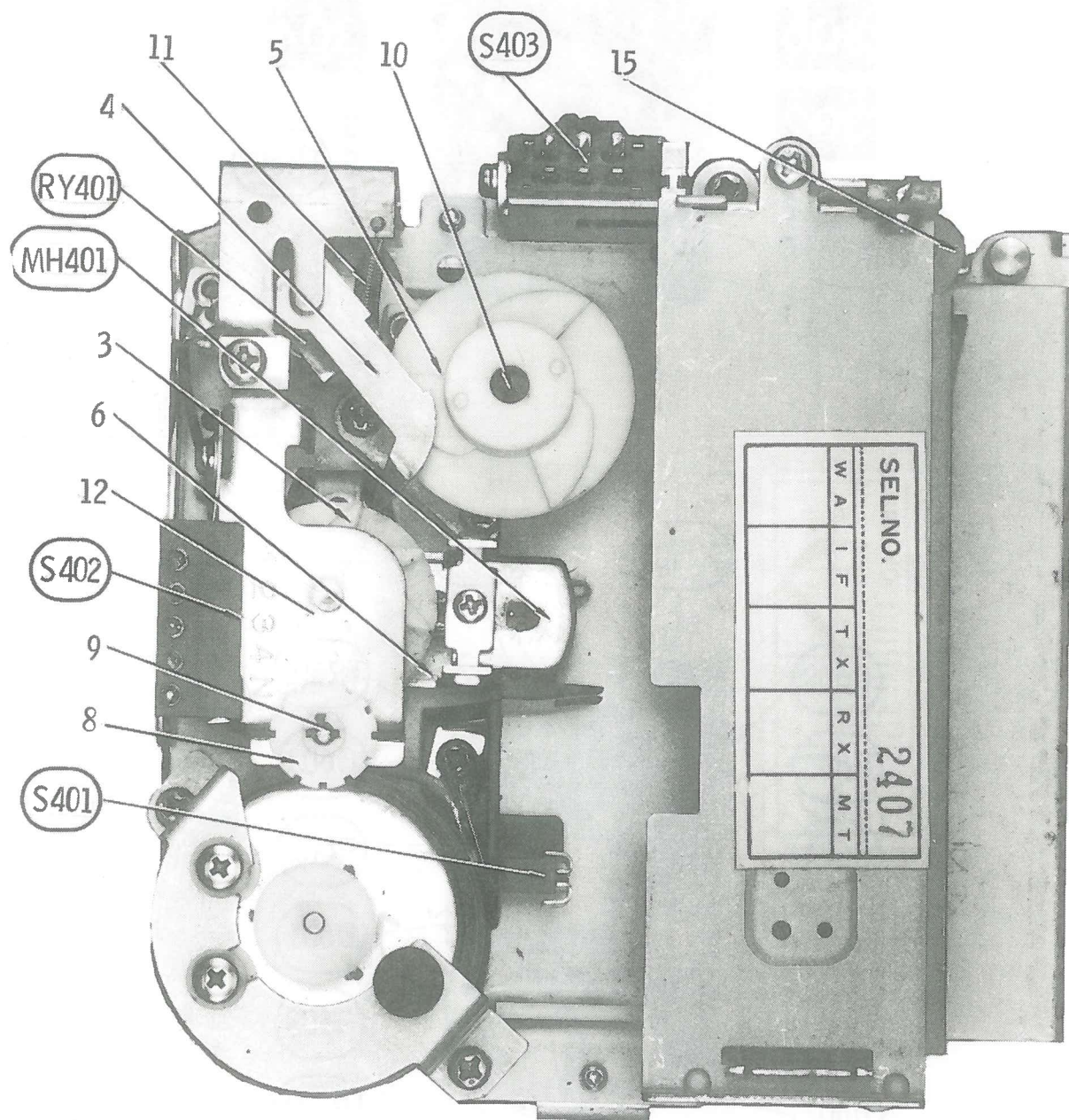
CAUTION: Avoid getting head cleaner on any plastic surface.

LUBRICATING

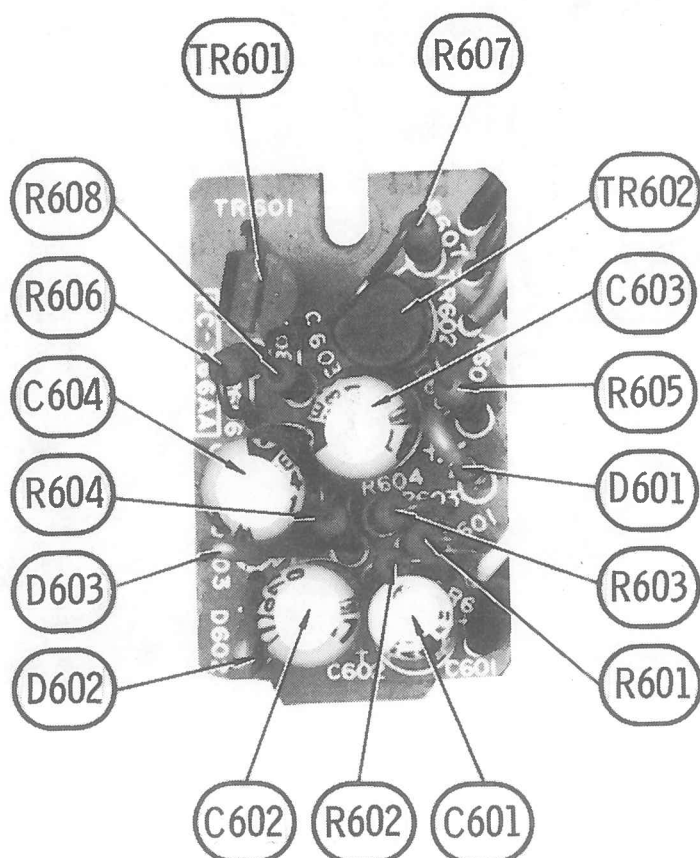
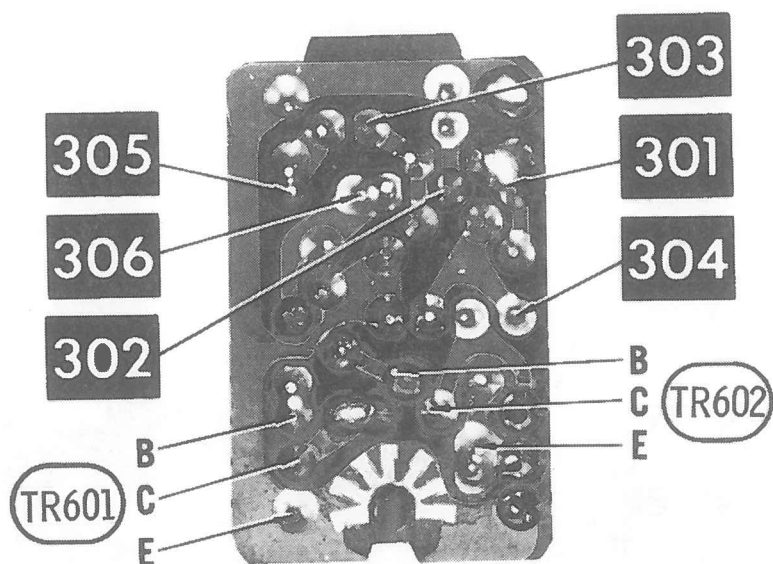
Bearings are oil-less type and do not need lubrication. Lubricate bushings lightly with #20 machine oil. Use a light film of nonhardening grease on cam surfaces.

HEAD DEMAGNETIZING

Demagnetize head when unit is serviced. Avoid using magnetic materials near head.

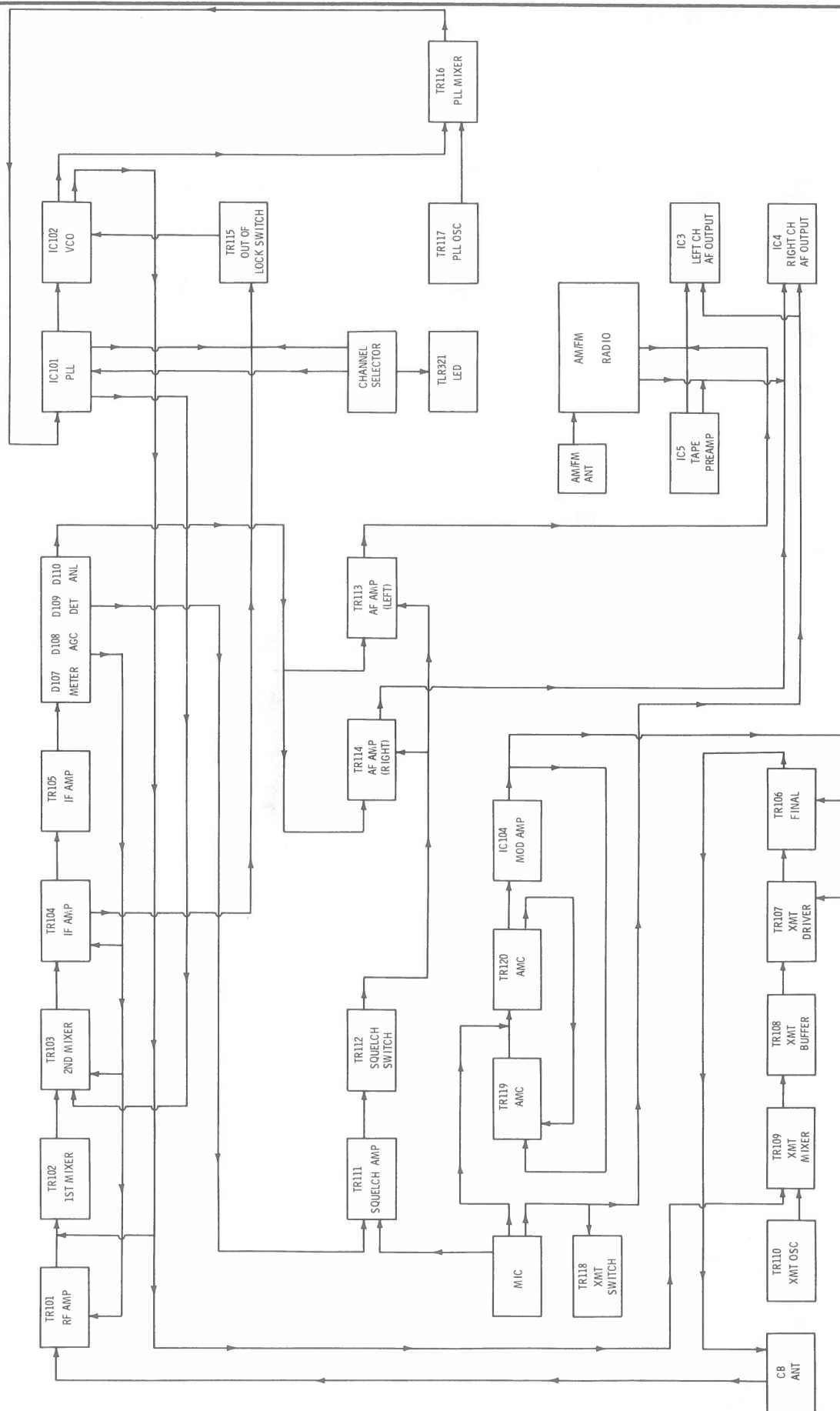


TAPE DECK (55XLR)

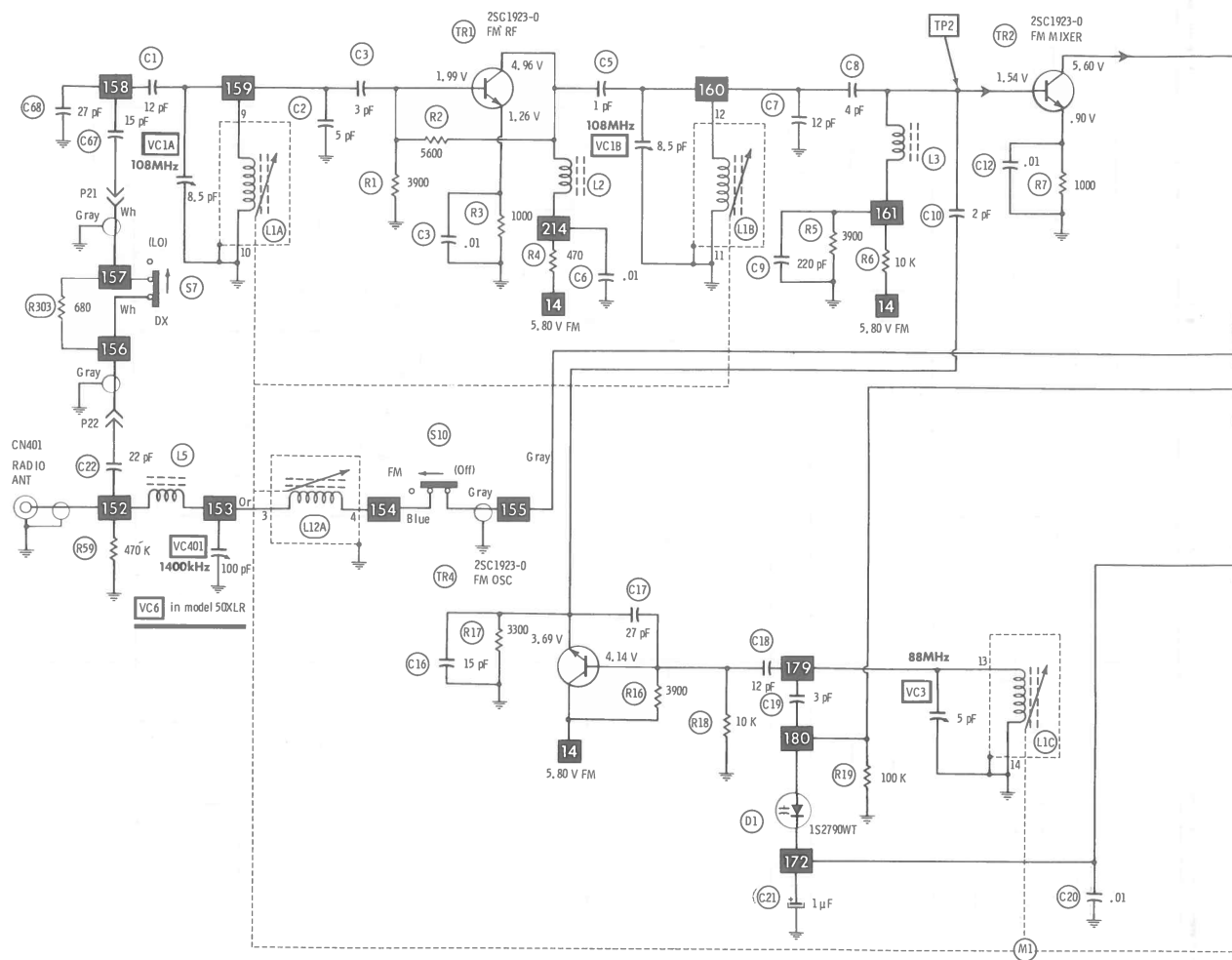


MOTOR CONTROL BOARD (50XLR)

BLOCK DIAGRAM



NOTE: DEMAGNETIZE HEADS AFTER SERVICING

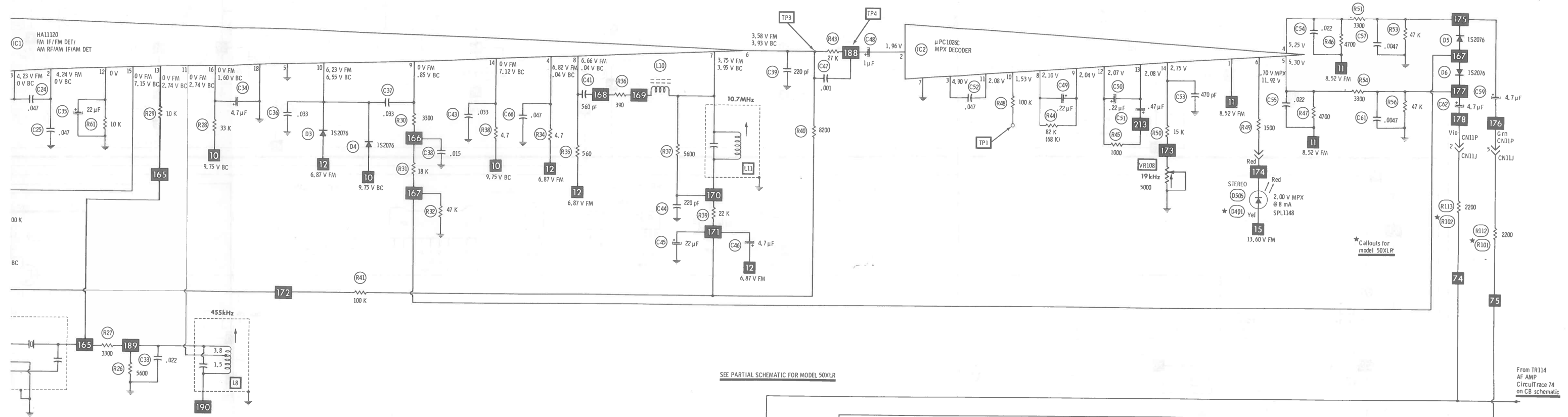


- ✱ Circuitry not used in some versions
 - Circuitry used in some versions
 - ⊙ See parts list
 - ⊛ Nominal value
 - ⊥ Ground
 - ⏏ Chassis
 - ▽ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.
 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.

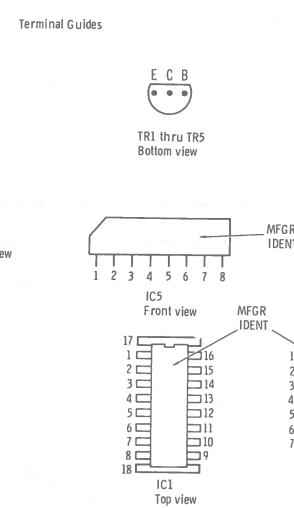
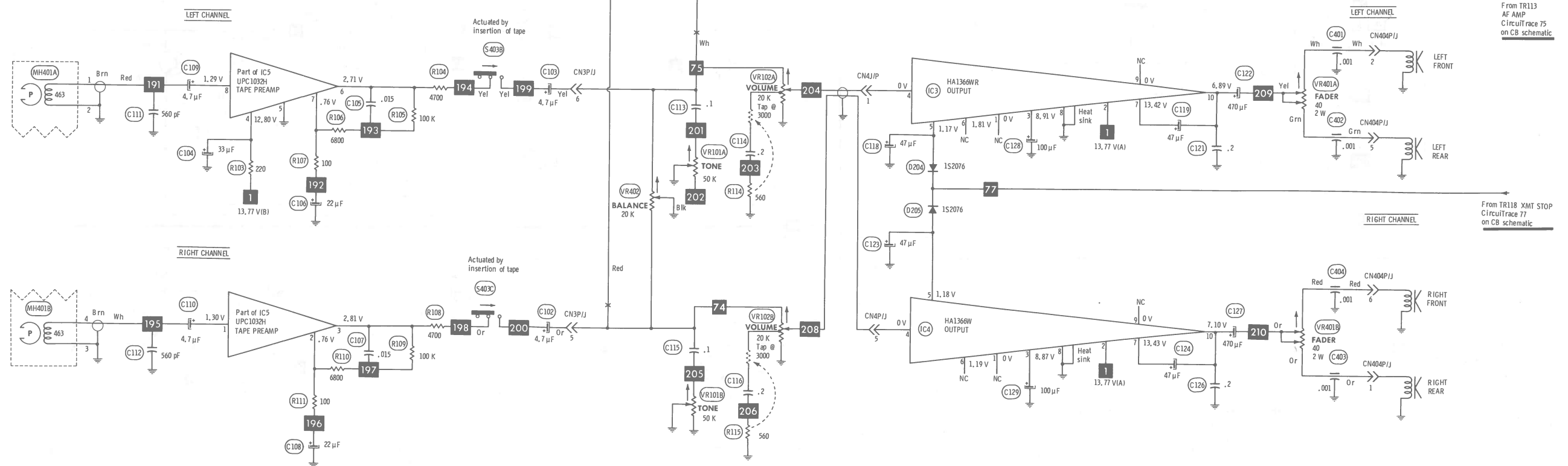
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE®**

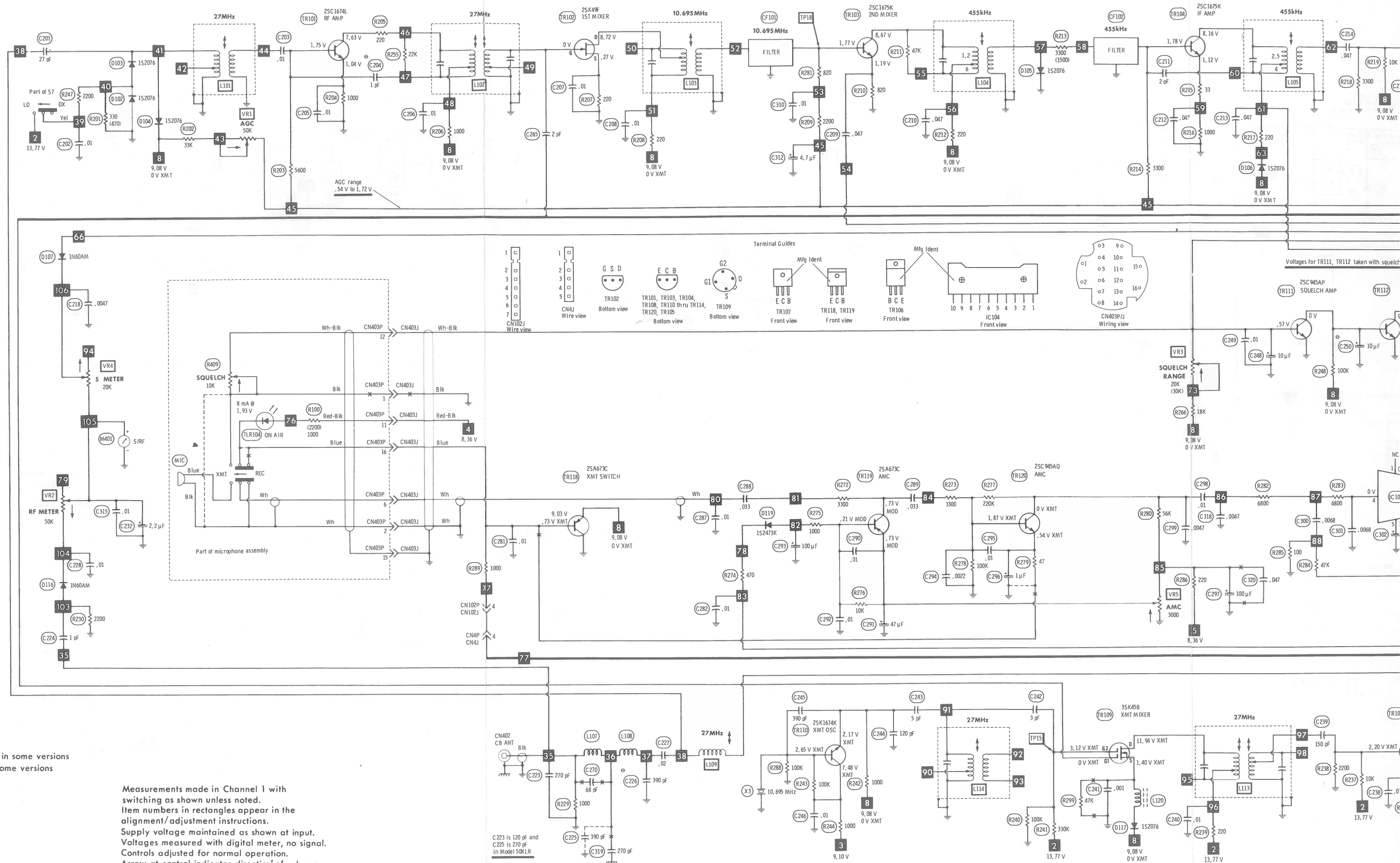
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SEE PARTIAL SCHEMATIC FOR MODEL 50XLR



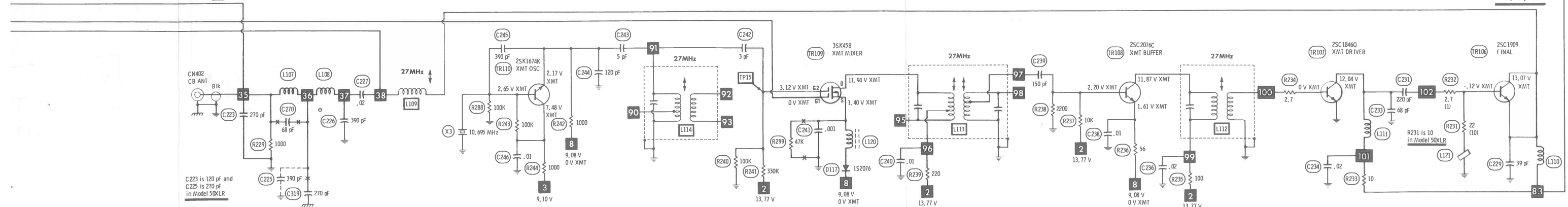
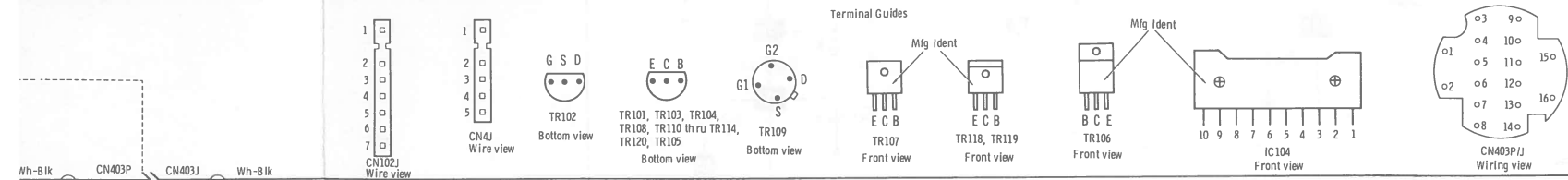
NOTE: DEMAGNETIZE HEADS AFTER SERVICING



- ✱ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted. 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.

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WITH **CIRCUITRACE**
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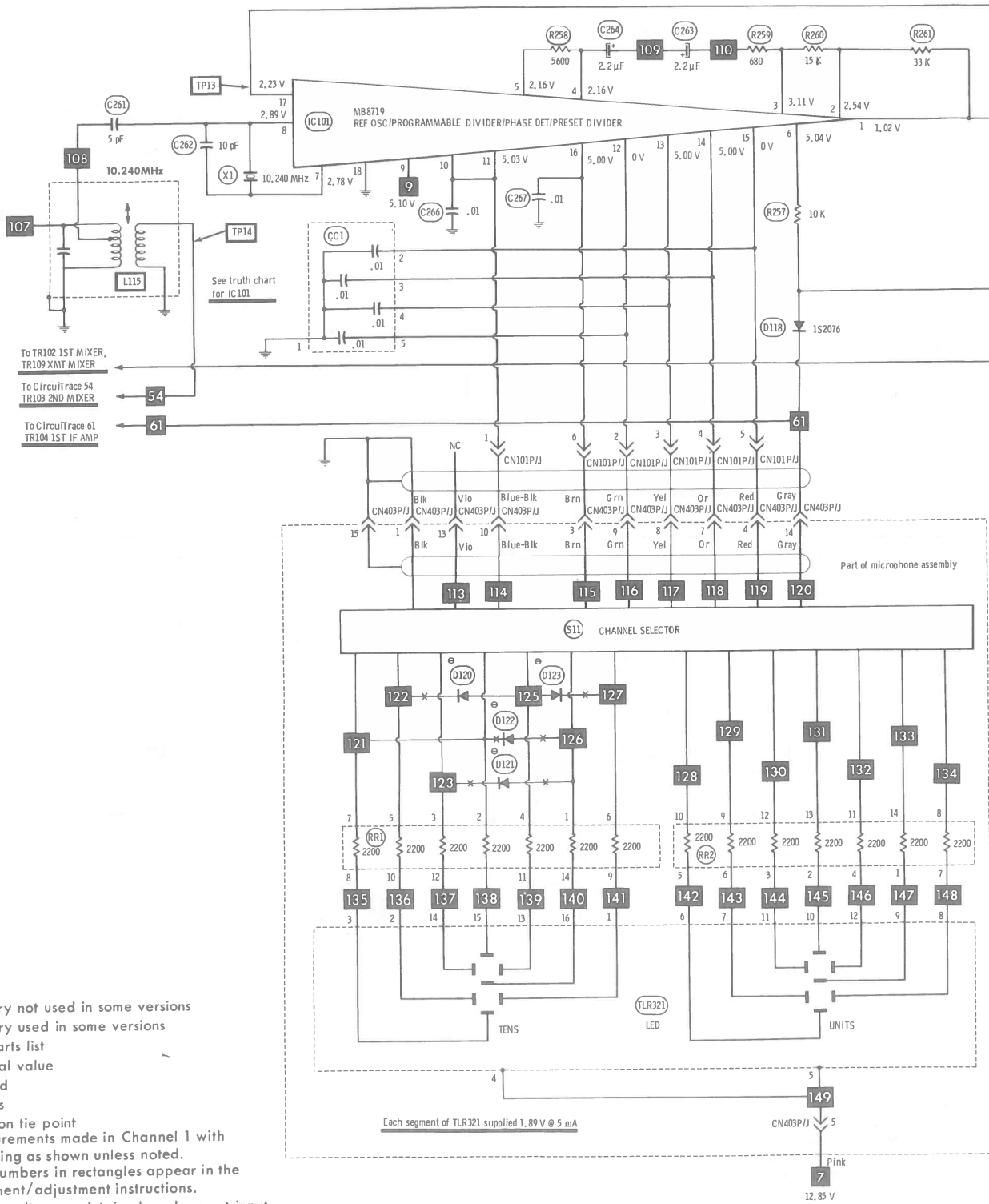


COBRA MODELS 50XLR, 55XLR



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NOTE: DEMAGNETIZE HEADS AFTER SERVICING



--- Circuitry used in some versions

 Ground

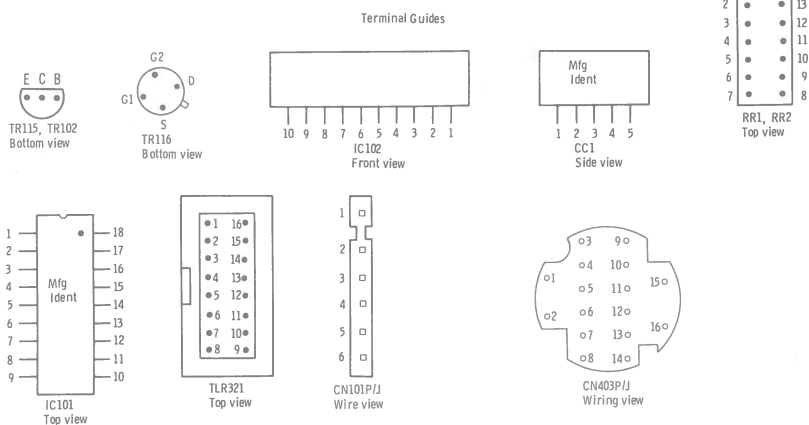
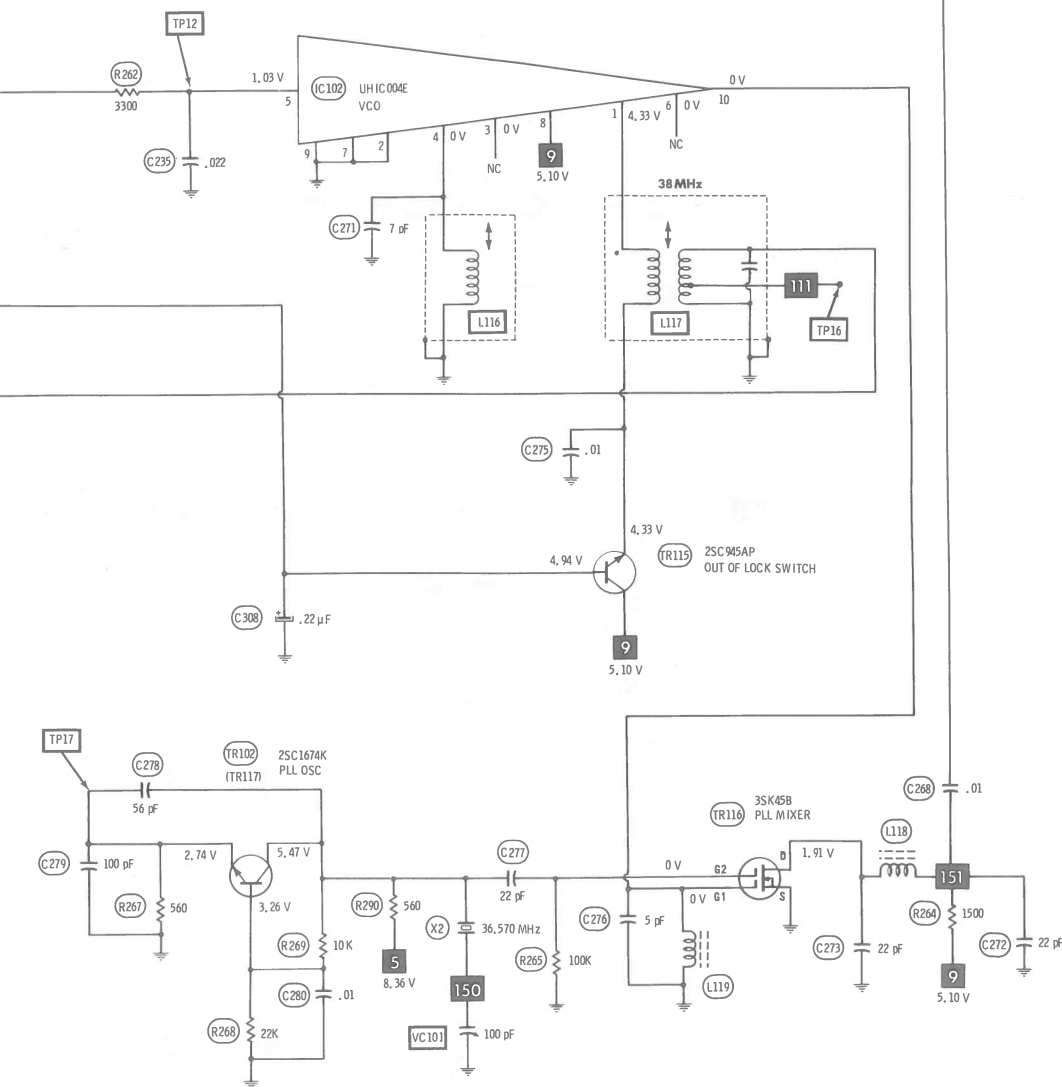
mtm Chassis

Common

Measurements made in Channel 1 with switching as shown unless noted.
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.

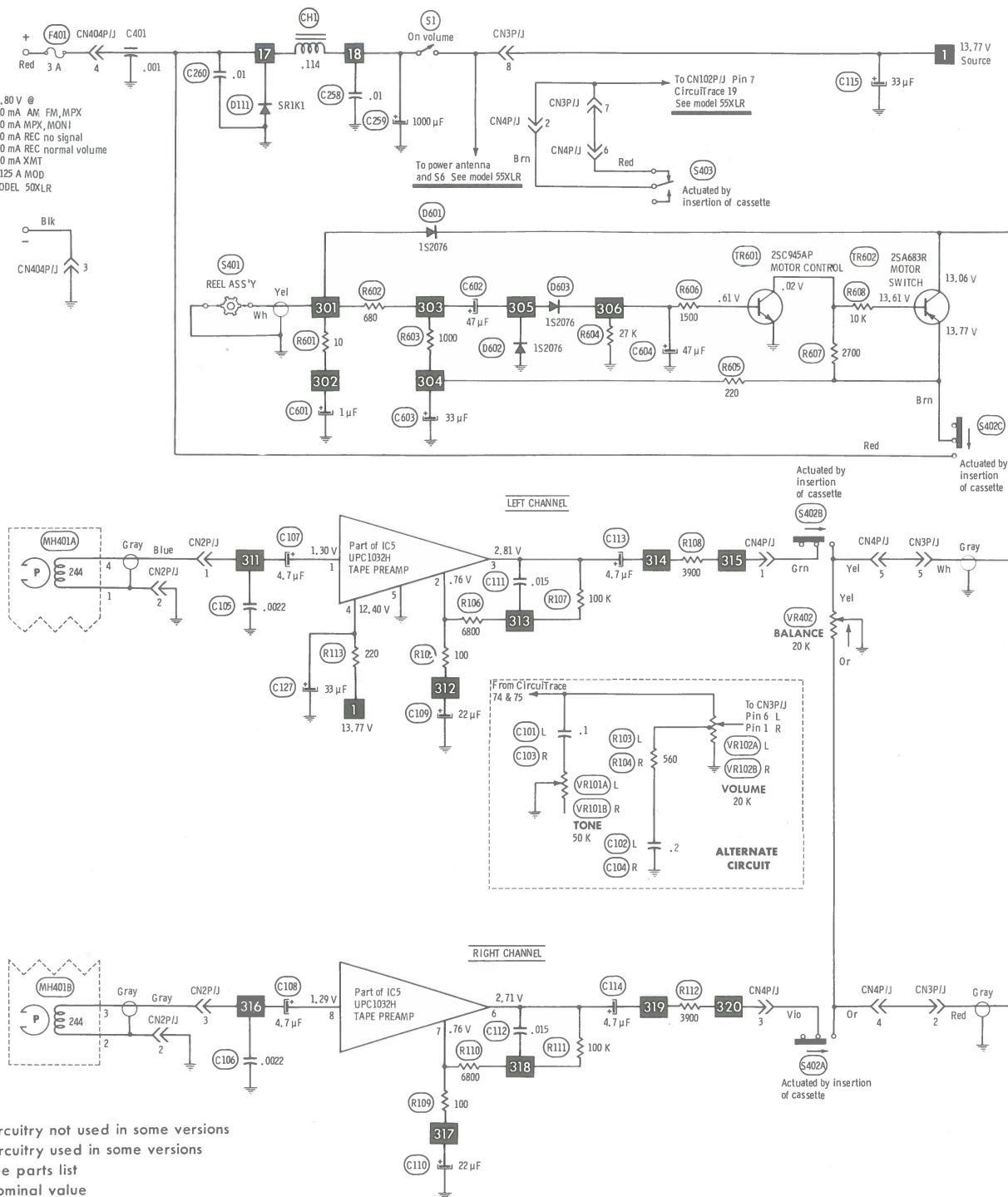
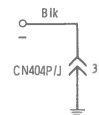
WITH **CIRCUITRACE[®]**

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NOTE: DEMAGNETIZE HEADS AFTER SERVICING

13.80 V @
220 mA AM, FM, MPX
320 mA MPX, MONI
250 mA REC no signal
350 mA REC normal volume
800 mA XMT
1.125 A MOD
MODEL 50XLR



✱ Circuitry not used in some versions

--- Circuitry listed in some versions

⊖ See parts list

✱ Nominal value

⊥ Ground

⏏ Chassis

▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted.

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.

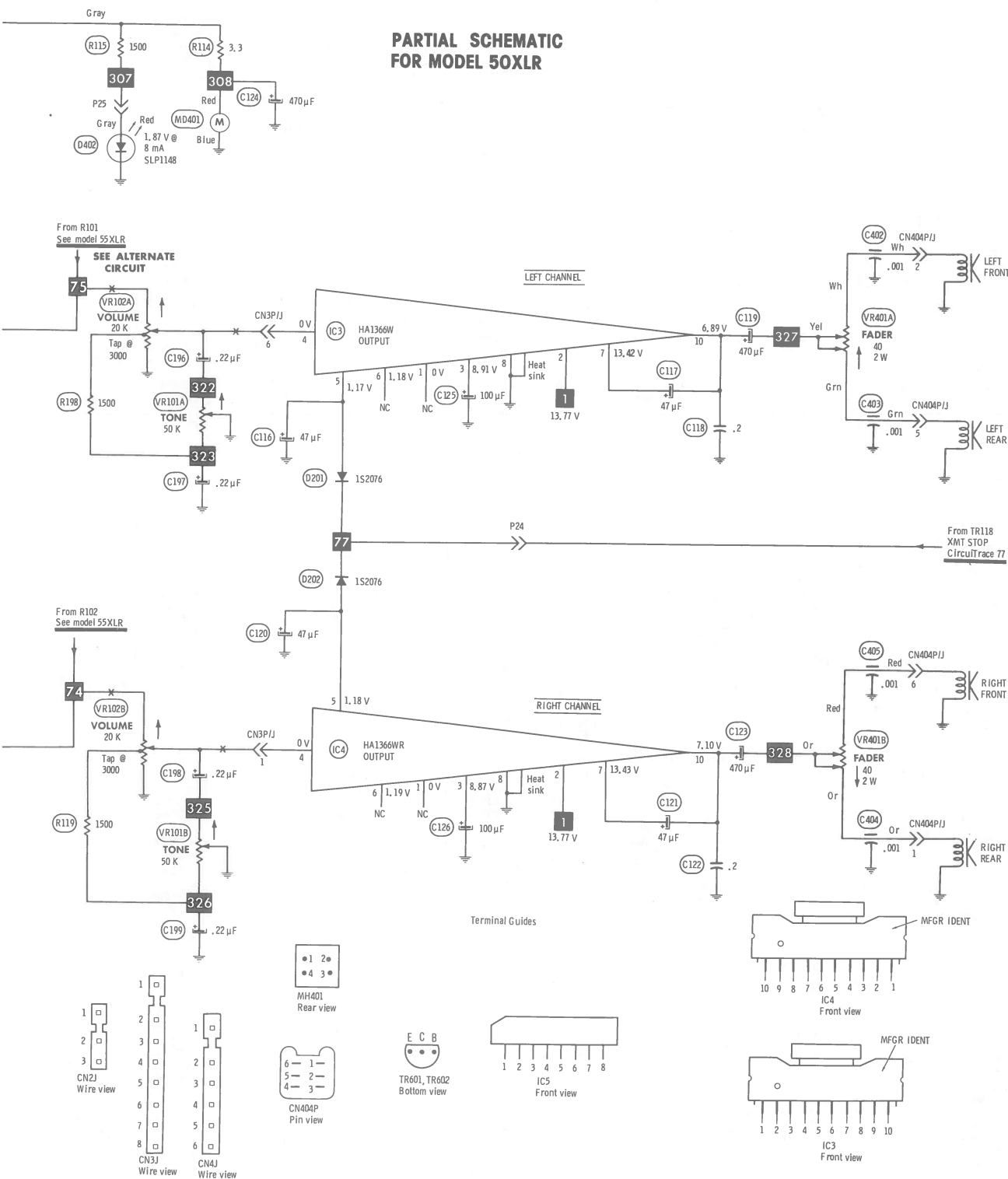
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CircuitTrace**®

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PARTIAL SCHEMATIC FOR MODEL 50XLR

COBRA MODELS 50XLR, 55XLR



CASSETTE SCHEMATIC (50XLR)

PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. 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.
D1	1S2790WT	151-070-9-001	GE-90		HEPR2503			RT-262	ECG614		WEP200	ZEN-453
D2	05Z-9.1U	152-087-9-001	GEZD-9.1	ZB9.1B		RE 114		RT-240	ECG139A	1N4739A	WEP1109	103-272
D3	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D4	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D5	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D6	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D7	05Z-9.1U	152-087-9-001	GEZD-9.1	ZB9.1B		RE 114		RT-240	ECG139A	1N4739A	WEP1109	103-272
D102	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D103	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D104	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D105	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D106	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D107	1N60AM	150-014-9-001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D108	1N60AM	150-014-9-001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D109	1N60AM	150-014-9-001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D110	1S2473K	151-069-9-001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D111	SR1K-1	151-040-9-003	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D112	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D113	RD8.2FC	152-085-9-002	GEZD-9.1	ZB9.1B		RE 114		RT-240	ECG139A	1N4739A	WEP1109	103-272
D114	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D115	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D116	1N60AM	150-014-9-001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D117	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D118	1S2076	151-067-9-001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D119	1S2473K	151-069-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D120			GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D121			GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D122			GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D123			GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D201	SR1K-1	151-040-9-003	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D202	SR1K-1	151-040-9-003	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D203	SR1K-1	151-049-9-003	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D204	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D205	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D301	1S2076	151-067-9-001	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
IC1	HA11120											
IC2	HA11120-1	207-131-9-005										
IC3	UPTC1026C	307-131-9-006							ECG1226			
IC4	HA1366WR	307-131-9-002										
IC5	HA1366W	307-131-9-003										
IC5	UPTC1032H	307-131-9-004										
IC101	MB8719	307-128-9-002										
IC102	UHC-004E	307-131-9-001							ECG1203			
IC103	78L05					RE 387-IC	SK3462		ECG977			
IC104	NJM78L05F	307-113-9-003				RE 387-IC	SK3462		ECG977			
TR1	HA1366WR	307-131-9-002	GE-61	PTC132	HEPS0016	RE 9	SK3018	RT-107	ECG229		WEP956	
TR2	25C1923	176-085-9-001	GE-61	PTC132	HEPS0016	RE 9	SK3018	RT-107	ECG229		WEP956	
TR3	25C1923-0	176-085-9-002	GE-61	PTC132	HEPS0016	RE 9	SK3018	RT-107	ECG229		WEP956	
TR4	25C1815-0	176-085-9-001	GE-86	PTC121	HEPS0014	RE 10	SK3018	RT-107	ECG108		WEP56	ZEN-104
TR5	25C1923	176-085-9-001	GE-61	PTC132	HEPS0016	RE 9	SK3018	RT-107	ECG229		WEP956	
TR6	25C1815-0	176-085-9-002	GE-86	PTC121	HEPS0014	RE 10	SK3018	RT-107	ECG108		WEP56	ZEN-104
TR6	25C1815	176-085-9-003	GE-86	PTC121	HEPS0014	RE 10	SK3018	RT-107	ECG108		WEP56	ZEN-104
TR101	25C2120-0	176-081-9-002	GE243*	PTC143*	HEPS0010*	RE 17*	SK3024*	RT-114*	ECG128*		WEP59*	
TR102	25C1674L	176-081-9-002	GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR102	25C1674		GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR102	25C1674		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312		WEP801	ZEN-123
TR102	25C1674		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312		WEP801	ZEN-123
TR102	25C1674		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312		WEP801	ZEN-123
TR102	25C1674K	176-081-9-001	GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR102	25C1674		GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR103	25C1675K	176-081-9-003	GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR103	25C1675		GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR104	25C1675K	176-081-9-003	GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR104	25C1675		GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR105	25C1675K	176-081-9-003	GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR105	25C1675		GE-213	PTC139*	HEPS0025*	RE 13*	SK3124	RT-308	ECG229*		WEP956*	ZEN-127
TR106	25C1909(14)	176-081-9-004	GE-215	PTC186		RE 203	SK3197	RT-146	ECG235		WEP785	
TR107	25C1846Q	176-075-9-006	GE-336	PTC180		RE 209	SK3253		ECG295	25C496	WEP913	800-767
TR107	25C1846Q		GE-336	PTC180		RE 209	SK3253		ECG295	25C496	WEP913	800-767
TR108	25C2076C	176-060-9-004	GE-210*	PTC121*	HEPS0015*	RE 13*	SK3122	RT-308	ECG123A		WEP736	121-722
TR108	25C2076		GE-210*	PTC121*	HEPS0015*	RE 13*	SK3122	RT-308	ECG123A		WEP736	121-722
TR109	35K45B	182-038-9-001	GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	121-826
TR109	35K45		GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	121-826
TR110	25C1674K	176-081-9-001	GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR110	25C1674		GE-61	PTC132*	HEPS0010*	RE 9*	SK3275*	RT-308	ECG229*		WEP956*	
TR111	25C945AP	176-060-9-003	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR111	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR112	25C945AP	176-060-9-003	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR112	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR113	25C945AQ	176-062-9-001	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR113	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR114	25C945AQ	176-062-9-001	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR114	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR115	25C945AP	176-060-9-003	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR115	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
TR116	35K45B	182-042-9-001	GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	121-826
TR116	35K45		GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	121-826
TR116	35K45		GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	121-826

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFR. 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.
TR118	2SA673C	177-025-9-001	GE-269	PTC103*	HEPS0026*	RE 197*	SK3114	RT-115*	ECG290		WEP911	
TR119	2SA673C	177-025-9-001	GE-269	PTC103*	HEPS0026*	RE 197*	SK3114	RT-115*	ECG290		WEP911	
	2SA673C		2SA673	25C945AQ	25C945	GE-269	PTC103*	HEPS0026*	RE 197*		SK3114	
TR120	25C945AQ	176-062-9-001	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000
	25C945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945	WEP1945	121-29000

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C21	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C34	4.7 25V	022-157-9-003	PC5-50	VTT4R7B50	QV1-27	EV-1319
C35	22 16V		PC25-25	VTT22B16	QV1-55	EV-1224
C42	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C45	22 16V		PC25-25	VTT22B16	QV1-55	EV-1224
C46	4.7 25V	022-157-9-003	PC5-50	VTT4R7B50	QV1-27	EV-1319
C48	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C49	.22 16V	022-158-9-001		TDC224M050EL	QDT1-10	SD50-R229
C50	.22 16V	022-158-9-001		TDC224M050EL	QDT1-10	SD50-R229
C51	.47 16V	022-161-9-002	PC1-50	VTT4R7A63	QV1-3	EV-1610
C56	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C58	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C59	4.7 25V	022-157-9-003	PC5-50	VTT4R7B50	QV1-27	EV-1319
C60	47 16V	022-164-9-002	PC50-16	VTT47D16	QV1-73	EV-1226
C62	4.7 25V	022-157-9-003	PC5-50	VTT4R7B50	QV1-27	EV-1319
C64	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C69	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C101	330 16V	022-164-9-003	WBR300-35	VTT330H16	QV1-133	EV-1245
C102	4.7 10V	027-032-9-001		TDC475M010EL	QDT1-48	SD10-4R79
C103	4.7 10V	027-032-9-001		TDC475M010EL	QDT1-48	SD10-4R79
C104	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325
C106	22 16V		PC25-25	VTT22B16	QV1-55	EV-1224
C108	22 16V		PC25-25	VTT22B16	QV1-55	EV-1224
C109	4.7 10V	027-032-9-001		TDC475M010EL	QDT1-48	SD10-4R79
C110	4.7 10V	027-032-9-001		TDC475M010EL	QDT1-48	SD10-4R79
C117	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325
C118	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C119	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C122	470 10V	022-160-9-001	PC500-16	VTT470K16	QV1-149	EV-1150
C123	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C124	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C127	470 10V	022-160-9-001	PC500-16	VTT470K16	QV1-149	EV-1150
C128	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C129	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C220	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C232	2.2 25V	022-158-9-002	PC2-100	VTT2R2A50	QV1-19	EV-1517
C247	220 16V	022-163-9-003	PC250-25	VTT220H16	QV1-117	EV-1240
C248	10 16V	022-157-9-004	PC10-25	VTT10B25	QV1-41	EV-1222
C250	10 16V	022-157-9-004	PC10-25	VTT10B25	QV1-41	EV-1222
C251	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325
C253	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C254	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C255	10 16V	022-157-9-004	PC10-25	VTT10B25	QV1-41	EV-1222
C257	100 16V	022-157-9-009	PC100-10	VTT100E10	QV1-93	EV-1130
C259	1000 16V	022-163-9-004	PC1000-16	VTT1000L16	QV1-183	EV-1260
C263	2.2 25V	027-031-9-001		TDC225M035FL		SD35-2R29
C264	2.2 25V	027-031-9-001		TDC225M035FL		SD35-2R29
C283	220 6V	022-163-9-002	PC250-10	VTT220F10	QV1-115	EV-1140
C286	220 16V	022-163-9-003	PC250-25	VTT220H16	QV1-117	EV-1240
C291	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C293	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C296	1 50V	022-157-9-002	PC1-50	VTT1A50	QV1-11	EV-1615
C297	100 10V	022-157-9-008	PC100-10	VTT100E10	QV1-93	EV-1130
C302	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C303	47 10V	022-164-9-001	PC50-16	VTT47D16	QV1-73	EV-1226
C306	220 16V	022-163-9-003	PC250-25	VTT220H16	QV1-117	EV-1240
C307	220 16V	022-163-9-003	PC250-25	VTT220H16	QV1-117	EV-1240
C308	.22 16V	022-158-9-001		TDC224M050EL	QDT1-10	SD50-R229
C312	4.7 25V	027-031-9-002		TDC475M010EL	QDT1-48	SD10-4R79
C316	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325

COBRA MODELS 50XLR, 55XLR

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
C1	12 NPO		DTZ-4R7	NP04P7	CN0412		10TCC-Q12
C2	5 NPO		DTZ-3R3	NP03P3	CN0547		10TCC-V47
C3	3 NPO		UK16-103		CN0533		10TCC-V33
C4	.01 12V				MAG1611		HY-420
C5	1 50V				CN0510		10TCC-V10
C6	.01 12V		UK16-103		MAG1611		HY-420
C7	12 NPO				CN0412		10TCC-Q12
C8	4 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C9	220 50V		DTZ-220				10TCC-T22
C10	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

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
C12	.01 12V	020-190-9-027	UK16-103	NP022	MAG1611	QFT2-63 QFT2-27	HY-420
C13	.01 12V		UK16-103		MAG1611		HY-420
C14	.01 12V		UK16-103		MAG1611		HY-420
C15	.01 12V		UK16-103		MAG1611		HY-420
C16	15 N470				*		10TCT-Q15
C17	27 N470 5%				*		10TCT-Q27
C18	12 N470				*		10TCT-Q12
C19	3 N470				*		10TCT-V30
C20	.01 12V		UK16-103		MAG1611		HY-420
C22	22 50V		DTZ-22		CN0422		10TCC-Q22
C24	.047 12V	020-190-9-028	UK12-503	NP03P3 NP0100	MAG1215	QFT2-27 QFT2-63	HY-350
C25	.047 12V		UK12-503		MAG1215		HY-350
C26	.0047 50V				M192P4729R8		1FT-D47
C27	.0022 50V				M192P2229R8		1FT-D22
C28	3 NPO		DTZ-3R3		CN0533		10TCC-V33
C29	100 NPO 5%		DTZ-100		CN0310		10TCC-T10
C30	.0022 50V				M192P2229R8		1FT-D22
C31	.0047 50V				M192P4729R8		1FT-D47
C32	200 N470 5%				*		10TCT-T20
C33	.022 50V				M192P2239R8		1FT-S22
C36	.033 50V	020-190-9-029		DPMS6D1 DPMS2S47 CD15FD471J03	M192P3339R8	QFT2-127 QFT2-149 QFT2-149 QFT2-105	1FT-S33
C37	.033 50V				M192P3339R8		1FT-S33
C38	.015 50V				M192P1539R8		1FT-S15
C39	220 50V		DTZ-220				10TCC-T22
C40	.01 12V		UK16-103		MAG1611		HY-420
C41	560 50V		DD-561		GP356		10TS-T56
C43	.033 50V				M192P3339R8		1FT-S33
C44	220 50V		DTZ-220				10TCC-T22
C47	.001 50V				EWFA1A210		1FT-D10
C52	.047 50V				EWFA1A147		1FT-S47
C53	470 50V 5%	020-190-9-024		DPMS6D1	SX347	QFT2-1 QFT2-171 QW1-42 QFT2-127 QFT2-1 QFT2-127 QFT2-1 QFT2-1 QFT2-63 QFT2-63 QFT2-127	MMA-471
C54	.022 50V 10%				M192P2239R8		1FT-S22
	.001				EWFA1A210		1FT-D10
C55	.022 50V 10%				M192P2239R8		1FT-S22
	.001				EWFA1A210		1FT-D10
C57	.0047 50V				M192P4729R8		1FT-D47
C61	.0047 50V				M192P4729R8		1FT-D47
C63	.022 50V				M192P2239R8		1FT-S22
C65	.01 12V		UK16-103		MAG1611		HY-420
C66	.047 12V		UK12-503		MAG1215		HY-350
C67	15 NPO 5%	020-190-9-024	DTZ-15	NP015	CN0415	QFT2-105 QFT2-105	10TCC-Q15
C68	27 50V				CN0427		10TCC-Q27
C105	.015 50V 10%				M192P1539R8		1FT-S15
C107	.015 50V 10%				M192P1539R8		1FT-S15
C111	560 50V		DD-561		GP356		10TS-T56
C112	560 50V		DD-561		GP356		10TS-T56
C113	.1 12V		UK12-104		MAG1201		HY-360
C114	.2 12V		UK16-204				HY-470
C115	.1 12V		UK12-104		MAG1201		HY-360
C116	.2 12V		UK16-204				HY-470
C121	.2 12V	020-190-9-024	UK16-204	NP02P2		QF1-195	HY-470
C126	.2 12V		UK16-204		*		10TCR-Q27
C201	27 N220 5%				MAG5011		
C202	.01 50V		UK50-103		MAG5011		
C203	.01 50V		UK50-103		CN0510		10TCC-V10
C204	1 50V				MAG5011		
C205	.01 50V		UK50-103		MAG5011		
C206	.01 50V		UK50-103		MAG5011		
C207	.01 50V		UK50-103		MAG5011		
C208	.01 50V		UK50-103		MAG5011		
C209	.047 50V	020-190-9-024	UK50-503	NP02P2	MAG5015	QFT2-1 QFT2-27 QFT2-43	10TCC-V22
C210	.047 50V		UK50-503		MAG5015		
C211	2 50V		DTZ-2R2		CN0522		
C212	.047 50V		UK50-503		MAG5015		
C213	.047 50V		UK50-503		MAG5015		
C214	.047 50V		UK50-503		MAG5015		
C215	.068 50V				EWFA1A168		1PB-S68
C216	.047 50V		UK50-503		MAG5015		
C217	.047 50V		UK50-503		MAG5015		
C218	.0047 50V		DD-472		GP247		5GA-D47
C219	.0047 50V	020-190-9-024	DD-472	GP4700 GP4700 DPMS6D1	GP247	QFT2-1 QFT2-27 QFT2-43	5GA-D47
C221	.001 50V				EWFA1A210		1FT-D10
C222	.0022 50V				M192P2229R8		1FT-D22
	.0033				M192P3329R8		1FT-D33
C223	270 50V		DTZ-270				10TCC-T27
	120		DTZ-120				10TCC-T12
C224	1 50V				CN0312		10TCC-V10
C226	270 50V				CN0510		10TCC-T27
	390		DTZ-270				10TS-T39
			DD-391		GP339		
C227	.02 50V	020-190-9-024	UK50-223	NP068	MAG5012	QFT2-127	10TCC-Q39
C228	.01 50V		UK50-103		MAG5011		
C229	39 50V		UK50-103		CN0439		
C230	.02 50V		UK50-223		MAG5012		
C231	220 50V		DTZ-220				10TCC-T22
C233	68 50V		DTZ-68				10TCC-Q68
C234	.02 50V		UK50-223		CN0468		
C235	.022 50V				M192P2229R8		1FT-S22
C236	.02 50V		UK50-223		MAG5012		
C237	.01 50V		UK50-103		MAG5011		
C238	.01 50V	020-190-9-024	UK50-103	NP03P3	MAG5011	QFT2-127	10TCC-T15
C239	150 50V		DTZ-150		CN0315		
C240	.01 50V		UK50-103		MAG5011		
C241	.001 50V		DD-102		GP210		10TS-D10
	.01		UK50-103		MAG5011		
	3 50V		DTZ-3R3		CN0533		10TCC-V33
C242	3 50V						

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

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
C243	5 50V 1.5	020-190-9-023	DTZ-4R7	NP04P7	CN0547		10TCC-V47
C244	120 NPO 5%		DTZ-1R5	NP01P5	CN0515		10TCC-V15
C245	390 50V		DTZ-120		CN0312		10TCC-T12
C246	.01 50V		DD-391	GP390	GP339		10TS-T39
C249	.01 50V		UK50-103		MAG5011		
C252	.01 50V		UK50-103		MAG5011		
C256	.01 50V		UK50-103		MAG5011		
C258	.01 50V		UK50-103		MAG5011		
C260	.01 50V		UK50-103		MAG5011		
C261	5 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C262	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C265	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C266	.01 50V		UK50-103		MAG5011		
C267	.01 50V		UK50-103		MAG5011		
C268	.01 50V		UK50-103		MAG5011		
C269	.01 50V		UK50-103		MAG5011		
C270	68 50V		DTZ-68	NP068	CN0468		10TCC-Q68
	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C271	7 N220				*		10TCC-V68
C272	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C273	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C274	.01 50V		UK50-103		MAG5011		
C275	.01 50V		UK50-103		MAG5011		
C276	5 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C277	22		DTZ-22	NP022	CN0422		10TCC-Q22
	.001 50V		DD-102		GP210		10TS-D10
C278	56 NPO 5%				CN0456		10TCC-Q56
C279	100 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C280	.01 50V		UK50-103		MAG5011		
C281	.01 50V		UK50-103		MAG5011		
C282	.01 50V		UK50-103		MAG5011		
C284	.022 50V				M192P2239R8	QFT2-127	1FT-S22
C285	.022 50V				M192P2239R8	QFT2-127	1FT-S22
C287	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C288	.033 50V				M192P3339R8	QFT2-149	1FT-S33
C289	.033 50V				M192P3339R8	QFT2-149	1FT-S33
C290	.01 50V	451	UK50-103		MAG5011		
C292	.01 50V	451	UK50-103		MAG5011		
C294	.0022 50V				M192P2229R8	QFT2-27	1FT-D22
C295	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C298	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C299	.0047 50V	189	DD-472	GP4700	GP247		5GA-D47
C300	.0068 50V			WMF1D68	EWFA1A268	QFT2-73	1FT-D68
C301	.0068 50V			WMF1D68	EWFA1A268	QFT2-73	1FT-D68
C304	.2 12V	504	UK16-204				HY-470
C305	.01 50V	451	UK50-103		MAG5011		
C309	.01 50V	451	UK50-103		MAG5011		
C310	.01 50V	451	UK50-103		MAG5011		
C313	.01 50V	451	UK50-103		MAG5011		
C314	.01 50V	451	UK50-103		MAG5011		
C315	.01 50V	451	UK50-103		MAG5011		
C317	.01 50V	451	UK50-103		MAG5011		
C318	.0047 50V	189	DD-472	GP4700	GP247		5GA-D47
C319	270	159	DTZ-270				10TCC-T27
C320	.047			DPMS2547	EWFA1A147	QFT2-171	1FT-S47
C321	.01	451	UK50-103		MAG5011		
C401	.001	033-038-9-001					
C402	.001		(1)				
C403	.001		(1)				
C404	.001		(1)				
C405	.001		(1)				
C406	.001		(1)				
CC1	Capacitor Network	(2)					

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

(1) Part of capacitor assembly.

(2) Consists of four .08 fixed capacitors.

COBRA MODELS 50XLR, 55XLR

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	AGC	50K	008-316-9-002				U260R503B
VR2	RF Meter	50K	008-316-9-002				U260R503B
VR3	Squelch Range	30K	008-331-9-001 (21)				
VR3	Squelch Range	30K	008-330-9-002 (20)				
VR3	Squelch Range	20K					U260R253B
VR4	S Meter	20K	008-316-9-003				U260R253B
VR5	AMC	3000	008-323-9-001				U260R502B

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR101A VR101B VR102A	Tone-Left Tone-Right Volume-Left	50K 50K 20K Tap 3000	008-331-9-003				
VR102B	Volume-Right	20K Tap 3000					
VR108	19kHz	5000	008-316-9-004 (19)				U260R502B
VR108	19kHz	5000	008-330-9-001 (18)				U260R502B
VR401A VR401B VR402	Fader-Left Fader-Right Balance	40 2W 40 2W 20K	008-330-9-005 008-331-9-002 (19)				

(18) Used in Model 50XLR.

(19) Used in Model 55XLR.

(20) May be used some versions 55XLR.

(21) May be used some versions 50XLR.

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.
RR1	Resistor Network		(1)	RR2	Resistor Network		(1)

(1) Consists of seven 2.2K ohms resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
CF3	IF (455kHz)	140-020-9-002	FL-033		(1) Part of M1
L1A	Tuner	523-209-9-005 (1)	YY-069		
L1B	Tuner	523-209-9-005 (1)	YY-069		
L1C	Tuner	523-209-9-005 (1)	YY-069		
L2	RF Choke (8.2uH)	041-062-9-003	LZ-002	9310-34	
L3	RF Choke (1uH)	041-056-9-002	LZ-002		
L4	IF (10.7MHz)	046-021-9-001	LB-096		
L5	RF Choke	044-048-9-002	LD-089		
L6	AM Conv	046-021-9-003	LB-098		
L7	RF Choke	044-048-9-002	LD-089		
L8	IF (455kHz)	046-021-9-004	LB-099		
L10	RF Choke (22uH)	041-099-9-001	LZ-001		CBS740-T CBS715-TC
L11	IF (10.7MHz)	046-021-9-002	LB-097		
L12A	Tuner	523-209-9-005	YY-069		
L12B	Tuner	523-209-9-005	YY-069		
L12C	Tuner	523-209-9-005	YY-069		
L101	Rec Antenna (27MHz)	060-023-9-001	LA-029	CBS740-T	
L102	Mixer (27MHz)	060-024-9-012	LA-194		
L103	IF (10.695MHz)	060-024-9-001	LA-110	CBS715-TC	
L104	IF (455kHz)	060-022-9-001	LA-163		
L105	IF (455kHz)	060-024-9-004	LA-183		
L106	IF (455kHz)	060-024-9-005	LA-184		CBS701 CB306 4588 CBS715-TC
L107	RF Choke	044-032-9-001	LE-008		
L108	Pi Filter	044-048-9-001	LE-070		
L109	Antenna Match (27MHz)	044-033-9-002	LC-020		
L110	RF Choke	044-028-9-003	LD-012		
L111	RF Choke	041-094-9-001	LC-051		
L112	XMT Driver (27MHz)	060-024-9-010	LA-189		
L113	XMT Buffer (27MHz)	060-024-9-006	LA-185		
L114	XMT Mixer (27MHz)	060-024-9-001	LA-180		
L115	Rec Osc Input (10.240MHz)	060-024-9-003	LA-182		
L116	VCO Output	060-024-9-008	LA-187		9250-104
L117	VCO Output (38MHz)	060-024-9-009	LA-188		
L118	RF Choke (100uH)	041-062-9-002	LZ-001		
L119	RF Choke (1uH)	041-056-9-002	LZ-002		
L120	RF Choke				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
CH1	320mA	.114	1mH	042-014-9-001 TF-017(1)	TR507		(1) Number on unit.

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	.4	5.5		061-037-9-001 TF-119 (1)			(1) Number on unit.

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
F401	3A Quick Acting	191-251-3-003		AGC3		312-003		FG3-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA							
	MFGR. PART No.	GC PART No.	NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black	
MIC	562-021-9-001											

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	140-019-9-001	10.7MHz
CF2	Filter	140-019-9-001	10.7MHz
CF3	Filter	140-020-9-002	455kHz
CF101	Filter	140-020-9-001	10.695MHz
CF102	Filter	140-010-9-002	455kHz
CN2-J	Jack		Printed Circuit Board Connector (5 Pin), Model 55XLR
CN2-P	Plug	523-209-9-004	Printed Circuit Board Connector (5 Pin), Model 55XLR
CN3-J	Jack		Printed Circuit Board Connector (7 Pin), Model 55XLR

COBRA MODELS 50XLR, 55XLR

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MISCELLANEOUS (cont)

ITEM No.	PART NAME	PART No.	NOTES
CN3-P	Plug	523-210-9-001	Printed Circuit Board Connector (7 Pin), Model 55XLR
CN4-J	Jack		Printed Circuit Board Connector (5 Pin), Model 55XLR
CN4-P	Plug	523-210-9-002	Printed Circuit Board Connector (5 Pin), Model 55XLR
CN11-J	Jack		Printed Circuit Board Connector (5 Pin)
CN11-P	Plug	523-209-9-004	Printed Circuit Board Connector (5 Pin)
CN101-J	Jack		Printed Circuit Board Connector (6 Pin)
CN101-P	Plug	523-204-9-002	Printed Circuit Board Connector (6 Pin)
CN102-J	Jack		Printed Circuit Board Connector (7 Pin)
CN102-P	Plug	523-209-9-001	Printed Circuit Board Connector (7 Pin)
CN401	Plug		Antenna (Radio)
CN402	Plug	426-028-9-002	Antenna (CB)
CN404	Cord	426-028-9-001	Power/Speaker
D401	LED	158-019-9-001	Stereo Indicator (2.00V @ 8mA), SLP-114B, Model 50XLR
D501	LED	158-019-9-001	Program Indicator (2.00V @ 8mA), SLP-114B, Model 55XLR
D502	LED	158-019-9-001	Program Indicator (2.00V @ 8mA), SLP-114B, Model 55XLR
D503	LED	158-019-9-001	Program Indicator (2.00V @ 8mA), SLP-114B, Model 55XLR
D504	LED	158-019-9-001	Program Indicator (2.00V @ 8mA), SLP-114B, Model 55XLR
D505	LED	158-019-9-001	Stereo Indicator (2.00V @ 8mA), SLP-114B, Model 55XLR
L121	Ferrite Bead	044-048-9-003	LD-087
M401	Meter	320-092-9-001	S/Rf (Includes PL-401)
MD401	Motor		Transport (2400 rpm @ 13.59V), Model 55XLR
MH401	Head		8-Track Stereo, Model 55XLR
PL1	Lamp	400-052-9-001	Dial (11.93V @ 170mA), Model 55XLR
RY401	Solenoid		Headshift
S1	Switch		Power (Part of Volume Control)
S6	Switch		MON/ANL
S7	Switch		LO/DX
S8	Switch		CB
S9	Switch		AM
S10	Switch		FM
S11	Switch		Channel Selector
S401	Switch		Auto Program (Activated by foil on tape), Model 55XLR
S402	Switch		Program Indicator (Activated by foil on tape), Model 55XLR
S403	Switch		Radio/Tape (Activated by insertion of tape), Model 55XLR
TLR-104	LED		Transmit Indicator (Part of microphone assembly)
TLR-321	LED		Channel Readout (Part of microphone assembly)
X1	Crystal	133-014-9-001	10.240MHz
X2	Crystal	133-014-9-003	36.570MHz
X3	Crystal	133-014-9-002	10.695MHz
	Printed Circuit Board	302-273-9-001	AF Amp (PC-327AA), Model 50XLR
	Printed Circuit Board	302-274-9-001	AF Signal Switch (PC-328AA), Model 50XLR
	Printed Circuit Board	302-270-9-001	CB Main (PC-229AA)
	Printed Circuit Board	302-275-9-001	Function Switch (PC-325AA)
	Printed Circuit Board	302-278-9-001	Power-Amp (PC-323AA), Model 55XLR
	Printed Circuit Board	302-276-9-001	Preamp (PC-321AA), Model 55XLR
	Printed Circuit Board	302-271-9-001	Radio Main (PC-320AA)
	Printed Circuit Board	302-277-9-001	Volume Control (PC-322AA), Model 55XLR
	Printed Circuit Board	302-272-9-001	Volume/Tone Control (PC-329AA), Model 50XLR

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

ITEM	PART No.	ITEM	PART No.
Button (Function) Model 55XLR	384-025-9-001	Knob (Balance Control) Model 55XLR	751-163-9-001
Button (Function) Model 50XLR	384-024-9-001	Knob (Front Standard)	751-162-9-001
Button (EJ/F.F) Model 50XLR	384-024-9-002	Knob (Front Ford Shallow)	751-154-9-005
Chassis (Front) Model 55XLR	258-031-9-001	Knob (Rear Standard)	751-162-9-002
Chassis (Front) Model 50XLR	258-029-9-001	Knob (Rear Ford Deep)	751-154-9-004
Chassis (Rear)	258-030-9-001	Knob (Rear Ford Shallow)	751-154-9-006
Cover (Bottom) Model 55XLR	252-024-9-001	Knob Inlay (Ford-Silver)	260-135-9-001
Cover (Bottom) Model 50XLR	252-023-9-001	Knob Inlay (Ford Woodgrain)	260-136-9-001
Cover (Top) Model 55XLR	253-065-9-001	Knob Inlay (Standard Black)	260-141-9-004
Cover (Top) Model 50XLR	253-063-9-001	Panel (Dull Black)	260-141-9-002
Escutcheon Model 55XLR	380-294-9-001	Panel (Woodgrain)	260-141-9-003
Escutcheon Model 50XLR	380-293-9-001		

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded)	23AWG BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106		31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded)	23AWG BELDEN No. 8415 (6')
		5-conductor (1 shielded)	28AWG BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

MODEL 50XLR CASSETTE PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. 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.
D111	SR1K-1	151-040-9-003	GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D201	1S2076	151-067-9-001	GE-514	PTC214	HEPRO0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D202	1S20X	151-067-9-001	GE-514	PTC214	HEPRO0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D601	1S2076	151-067-9-001	GE-514	PTC214	HEPRO0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D602	1S2076	151-067-9-001	GE-514	PTC214	HEPRO0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D603	1S2076	151-067-9-001	GE-514	PTC214	HEPRO0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
IC3	HA1366W	307-131-9-003										
IC4	HA1366WR	307-131-9-002										
IC5	UPC1032H	307-131-9-004										
TR601	2SC945AP	176-060-9-003	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
TR602	2SA683R		GE-67	PTC142	HEPSM19	RE 18	SK3138	RT-115	ECG294		WEP916	

* Lead Configuration may vary from original.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C107	4.7 35V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C108	4.7 35V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C109	22 10V	022-163-9-001	PC25-25	VTT22B16	QV1-55	EV-1224
C110	22 10V	022-163-9-001	PC25-25	VTT22B16	QV1-55	EV-1224
C113	4.7 35V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C114	4.7 35V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C115	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325
C116	47 10V	022-157-9-008	PC50-16	VTT47D16	QV1-73	EV-1226
C117	47 10V	022-157-9-008	PC50-16	VTT47D16	QV1-73	EV-1226
C119	470 10V	022-160-9-001	PC500-16	VTT470K16	QV1-149	EV-1150
C120	47 10V	022-157-9-008	PC50-16	VTT47D16	QV1-73	EV-1226
C121	47 10V	022-157-9-008	PC50-16	VTT47D16	QV1-73	EV-1226
C123	470 10V	022-160-9-001	PC500-16	VTT470K16	QV1-149	EV-1150
C125	100 10V		PC100-10	VTT100E10	QV1-93	EV-1130
C126	100 10V		PC100-10	VTT100E10	QV1-93	EV-1130
C127	33 16V	022-157-9-006	PC30-25	VTT33D25	QV1-63	EV-1325
C196	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C197	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C198	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C199	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C601	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C602	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C603	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C604	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226

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
C105	.0022 10%				GP222	10TS-D22
C106	.0022 10%				GP222	10TS-D22
C111	.015 50V 10%				M192P1539R8	1FT-S15
C112	.015 50V 10%				M192P1539R8	1FT-S15
C118	.2 12V		UK16-204			HY-470
C122	.2 12V		UK16-204			HY-470
C258	.01 50V		UK50-103			
C260	.01 50V		UK50-103			
C401	.001	033-037-9-001			MAG5011	
C402	.001	(1)			MAG5011	
C403	.001	(1)				
C404	.001	(1)				
C405	.001	(1)				
C406	.001	(1)				

(1) Part of capacitor assembly C401, C402, C403, C404, C405, C406.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR101A	Tone-Left	50K	008-330-9-004				
VR101B	Tone-Right	50K					
VR102A	Volume-Left	20K Tap @ 3000					
VR102B	Volume-Right	20K Tap @ 3000					
VR401A	Power Switch						
B	Fader-Left	40 2W	008-330-9-005				
VR402	Fader-Right	40 2W					
	Balance	20K	008-330-9-003				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (Ø CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH1	320mA	.114	1mH	042-014-9-001 TF-017(1)	TR507		(1) Number on unit.

COBRA MODELS 50XLR, 55XLR

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CN2-J	Jack		Printed Circuit Board Connector (3 Pin)
CN2-P	Plug	523-209-9-003	Printed Circuit Board Connector (3 Pin)
CN3-J	Jack		Printed Circuit Board Connector (8 Pin)
CN3-P	Plug	523-209-9-002	Printed Circuit Board Connector (8 Pin)
CN4-J	Jack		Printed Circuit Board Connector (6 Pin)
CN4-P	Plug	523-204-9-002	Printed Circuit Board Connector (6 Pin)
CN404-J	Jack		Power/Speaker
CN404	Cord	523-028-9-011	Power/Speaker
D402	LED	158-019-9-001	Tape Indicator (1.87V @ 8mA), SLP-1148
MD401	Motor		Transport (2400 rpm @ 13.47V)
MH401	Head		Cassette 2-Track Stereo
S1	Switch		Power (Part of Volume Control)
S401	Switch		Part of Take-up Reel Assembly
S402	Switch		Radio/Tape (Actuated by insertion of cassette)
S403	Switch		Radio/Tape (Actuated by insertion of cassette)

DIAL CORD STRINGING

