

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 860CB

MANUFACTURER'S SPECIFICATIONS

Circuit System' 10 IC's, 33 Silicon Transistors and 38 Diodes, AM/FM-MPX Radio and 8 Track Cartridge Stereo Tape Player with 40 Channel Mobile Citizens Band Transceiver.

FM Radio Section

Frequency Range 88 MHz to 108 MHz
Signal to Noise Ratio More than 30 db at 20 dbm Ant. input.
Limiting Sensitivity More than 15 dbm (5 uV/m)
Frequency Response 70 Hz to 10,000 Hz
FM MPX Separation More than 35 db
Intermediate Frequency 10.7 MHz

AM Radio Section

Frequency Range 530 KHz to 1,610 KHz
Sensitivity More than 30 dbm
Signal to Noise Ratio More than 20 db at 35 dbm Ant. input.

Intermediate Frequency 262.5 KHz

Tape Player Section

Tape Drive System Capstan drive
Playback System 8 Track Cartridge Tape
Tape Speed 3-3/4 I.P.S.
Wow and Flutter 0.35%
Frequency Response 100 Hz to 8,000 Hz
Distortion Less than 10%
Cross Talk Less than 45 db
Signal to Noise Ratio More than 50 db

Output Power 6 watts RMS at 4 ohms per channel at 10% THD

Speaker Impedance Power Requirement 4 to 8 ohms

CB Transceiver

a) Receiver:
Frequency Range (MHz) 26.965 ~ 27.405
Sensitivity 1 uV for 10 db S/N
Selectivity 4 KHz min. at 6 db down
Adj. channel Rejection More than 65 db
Audio Fidelity 400 Hz ~ 2,000 Hz (1 KHz=0 db, 6 db down)
A.G.C. Figure of Merit More than 80 db (Input 94 db for 10 db range)
Squelch Sensitivity (Threshold) Less than 1 uV
Spurious Response More than 65 db
b) Transmitter:
Frequency Range (MHz) 26.965 ~ 27.405
RF Output 4 watts
Modulation Capability More than 90%
Spurious Suppression More than 60 db
Frequency Tolerance ±0.005%
Usable Ambient Temperature -30°C ~ 50°C

J.I.L. MODEL 860CB

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.

Suggested Alignment Tools: GC ELECTRONICS:
 CT101, CT102 8276, 5000
 IFT107, IFT203, IFT204, IFT207 9440
 L206, MF201, IFT101A thru IFT104A, IFT105, IFT108,
 IFT201, IFT202, IFT205, IFT206 5009, 8728-A, 8728
 L201 thru L207 9091, 8728-A, 8728

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope to TP1 (IFT108 Secondary).	Ch. 19	IFT108	Adjust for maximum RF. (1-1 volts p-p typical).
Input of frequency counter to TP1 (IFT108 Secondary).	Ch. 19	CT102	Adjust for 10.240MHz.
Input of frequency counter to TP2 (IFT105 Secondary)	Ch. 19	IFT105	Adjust for maximum RF. (200mv p-p typical).
Input of DC meter to PT3 (IC102, Pin 6).	Ch. 18	IFT101A	Adjust for 2.5 volts. Check for approx 2 volts on Ch. 1. Check for approx 3-4 volts on Ch. 40.
Input of oscilloscope to TP4 (IFT103A Secondary).	Ch. 19	IFT103A	Adjust for maximum RF. (150mv p-p typical).
Input of oscilloscope to TP5 (IFT102A Secondary).	Ch. 19	IFT102A	Adjust for maximum RF. (200mv p-p typical).
Input of frequency counter to TP5 (IFT102A Secondary).	Ch. 1		Check for 17.180MHz. Check all channels (See Truth Chart for correct frequencies).
Input of frequency counter to TP6 (IC102 Pin 2)	Ch. 1		Check for 1.820MHz. Check all channels (See Truth Chart for correct frequencies).
Input of oscilloscope to TP7 (IFT104A Secondary)	Ch. 19, XMT	IFT104A	Adjust for maximum RF. (200mv p-p typical).
Input of frequency counter to TP7 (IFT104A Secondary).	Ch. 19, XMT	CT101	Adjust for 9.785MHz.

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. Preset as follows unless otherwise indicated.
RF GAIN MAX, SQUELCH MINIMUM, ANL OFF

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uf to TP8 (D204, anode) 455kHz, 1000Hz @ 30% modulation.	Ch. 19	IFT205, IFT204, MF201	Adjust for maximum.
Output of signal generator thru .01uf to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	IFT203, IFT202, IFT206, IFT207	Adjust for maximum. If necessary readjust MF201, IFT205, and IF206.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Preset as follows, unless otherwise indicated.
RF GAIN MAX, ANL OFF

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uf to antenna jack. 27.185MHz, 1000Hz @ 30% modulation output 1000uV.	Ch. 19, SQUELCH MAX	VR202	SQUELCH RANGE Adjust so squelch just breaks.

TRANSMITTER ADJUSTMENTS

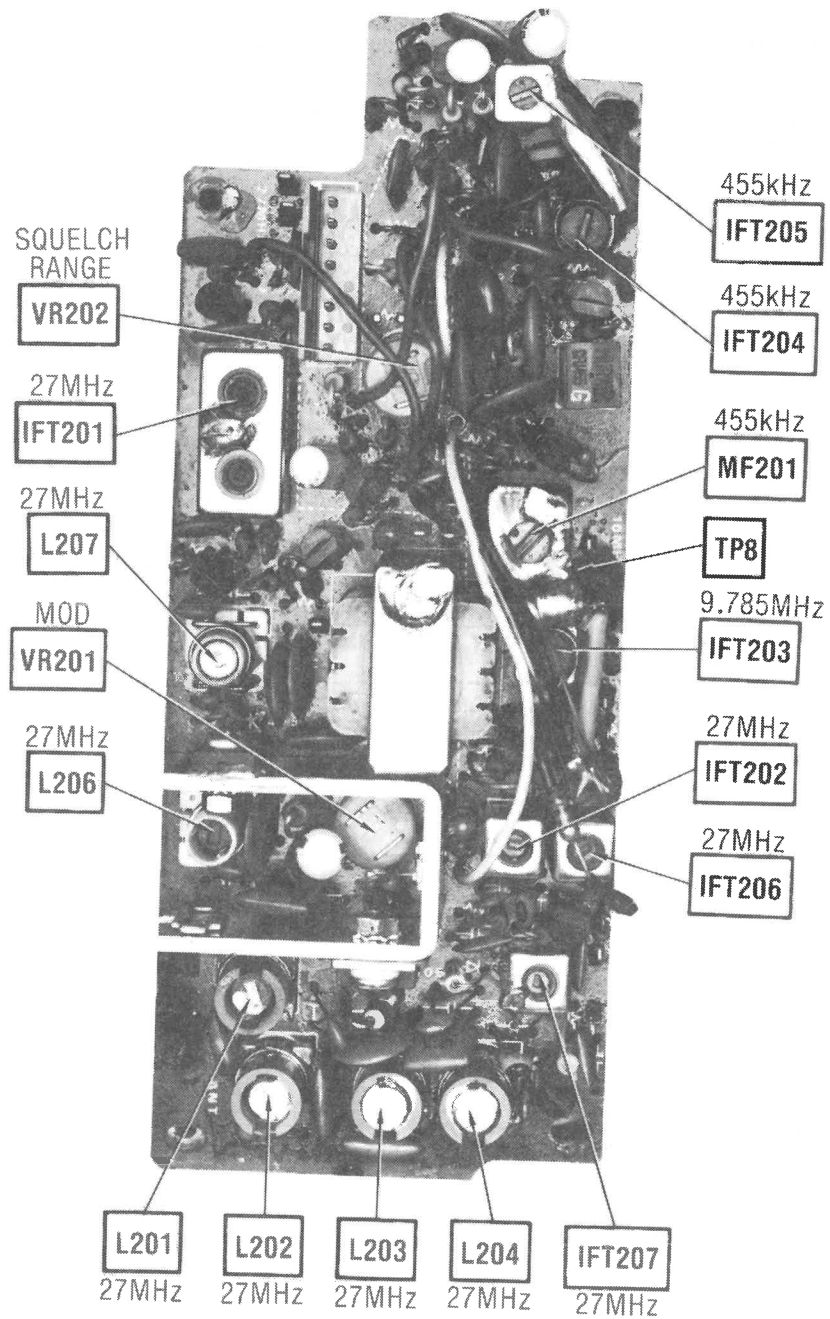
Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter. See page 4 for correct frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 10mV signal at MIC input.	Ch. 19	VR101	AMC Adjust for 100% modulation maximum.

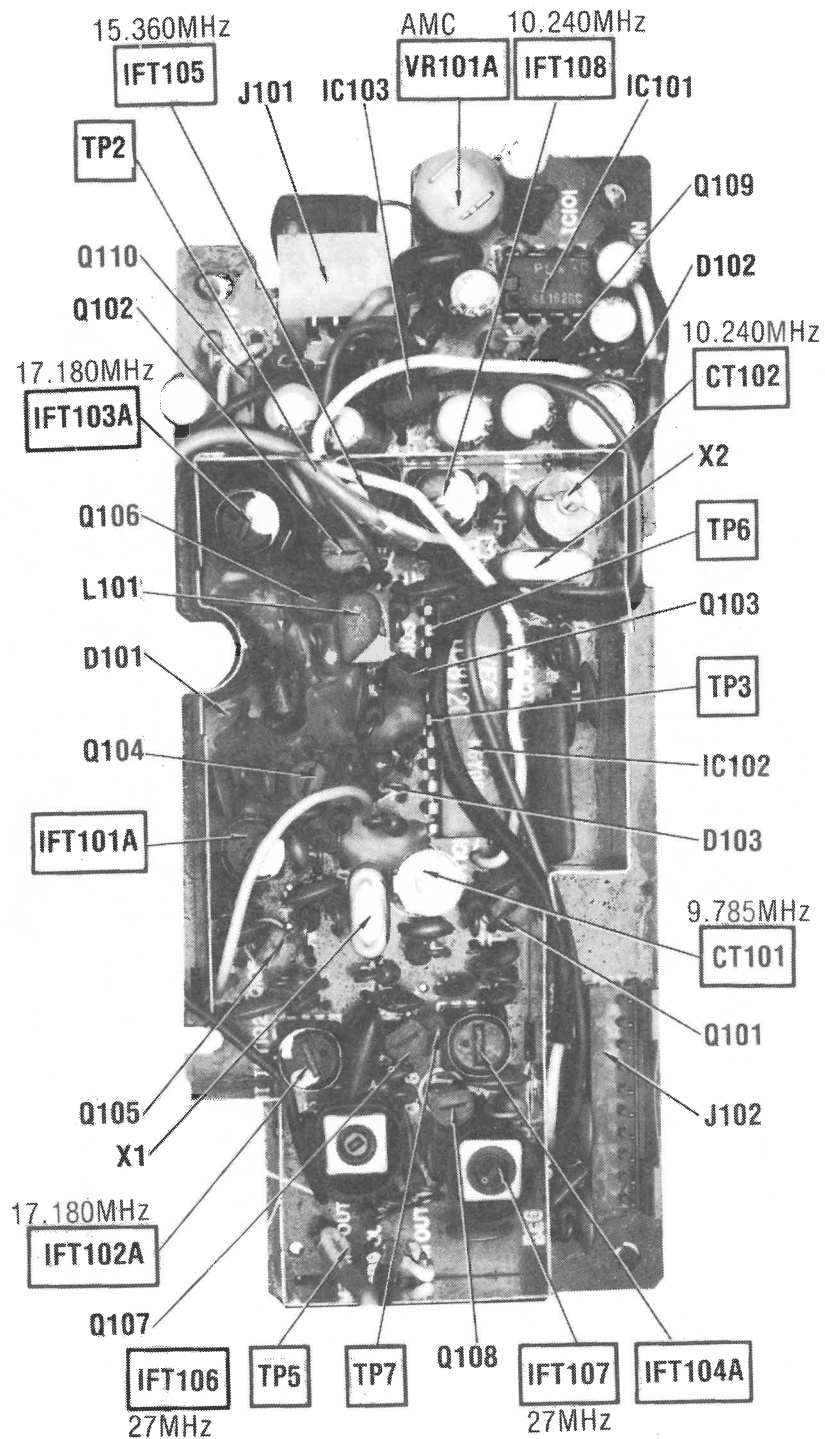
TRANSMITTER ALIGNMENT

Connect a 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
Input of RF wattmeter to antenna input.	Ch. 19	IFT107, IFT201,L207, L206,L204, L203,L202, L201	Adjust for maximum.
	Ch. 19	VR201	Adjust for 4 watts maximum.

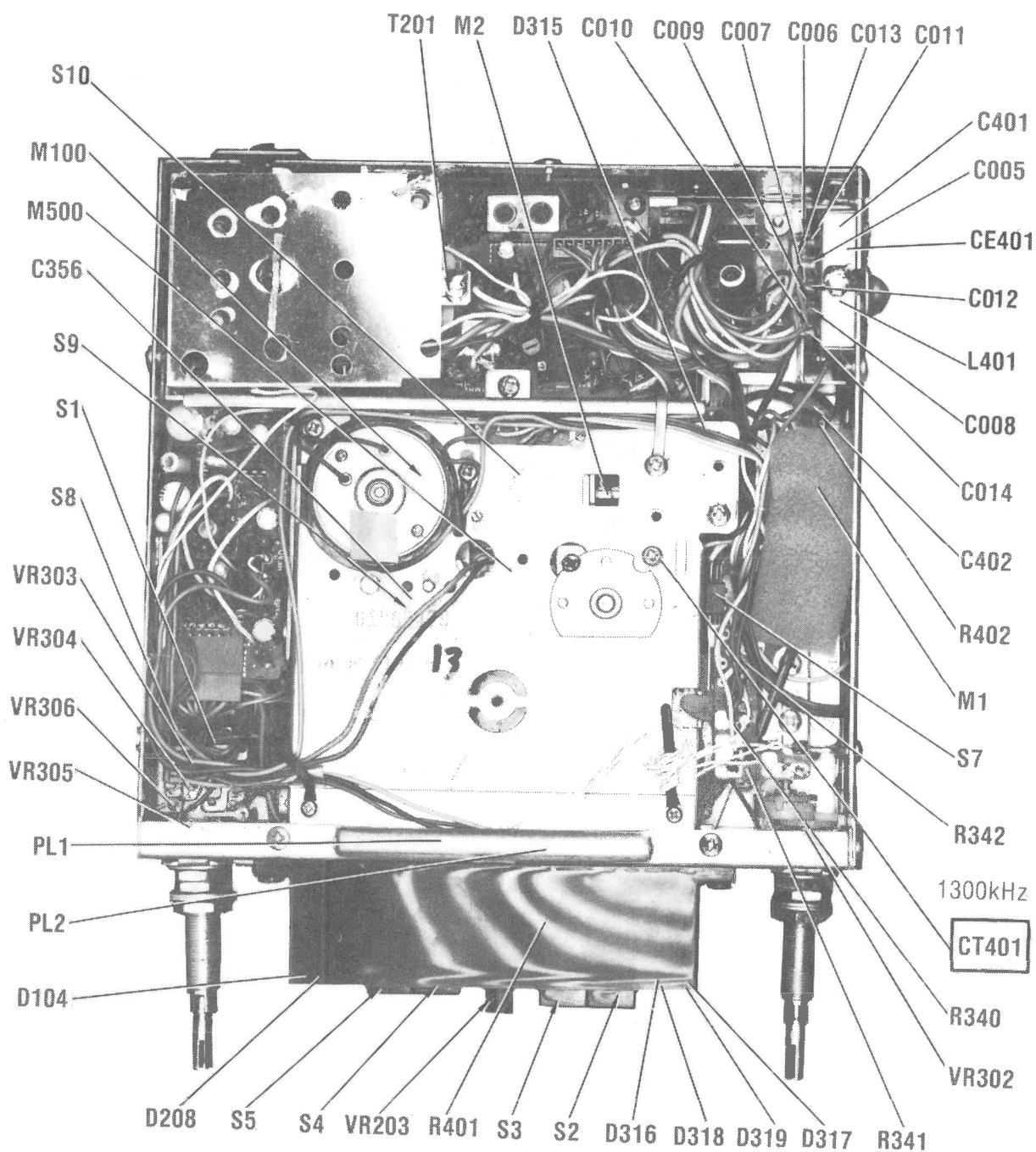


CB BOARD

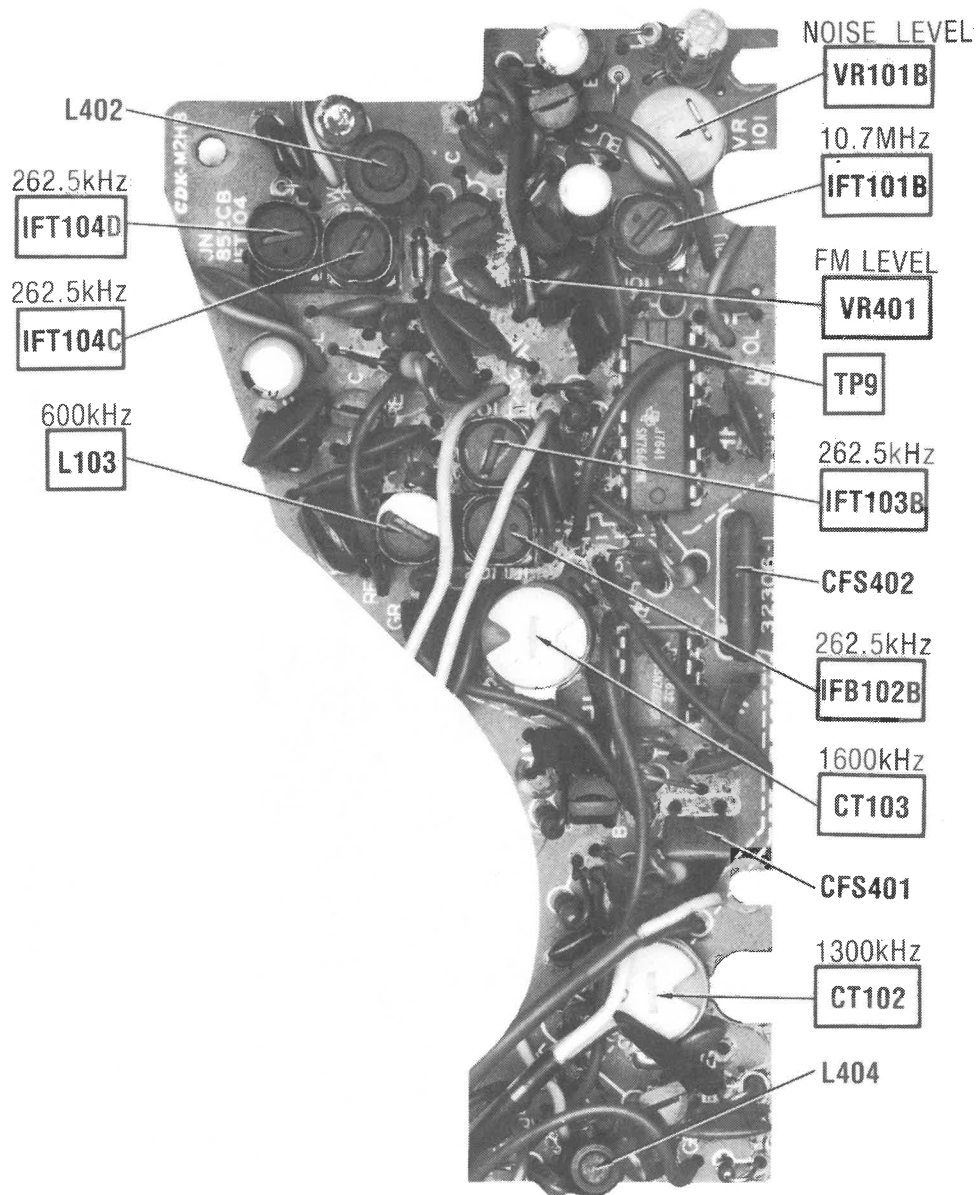


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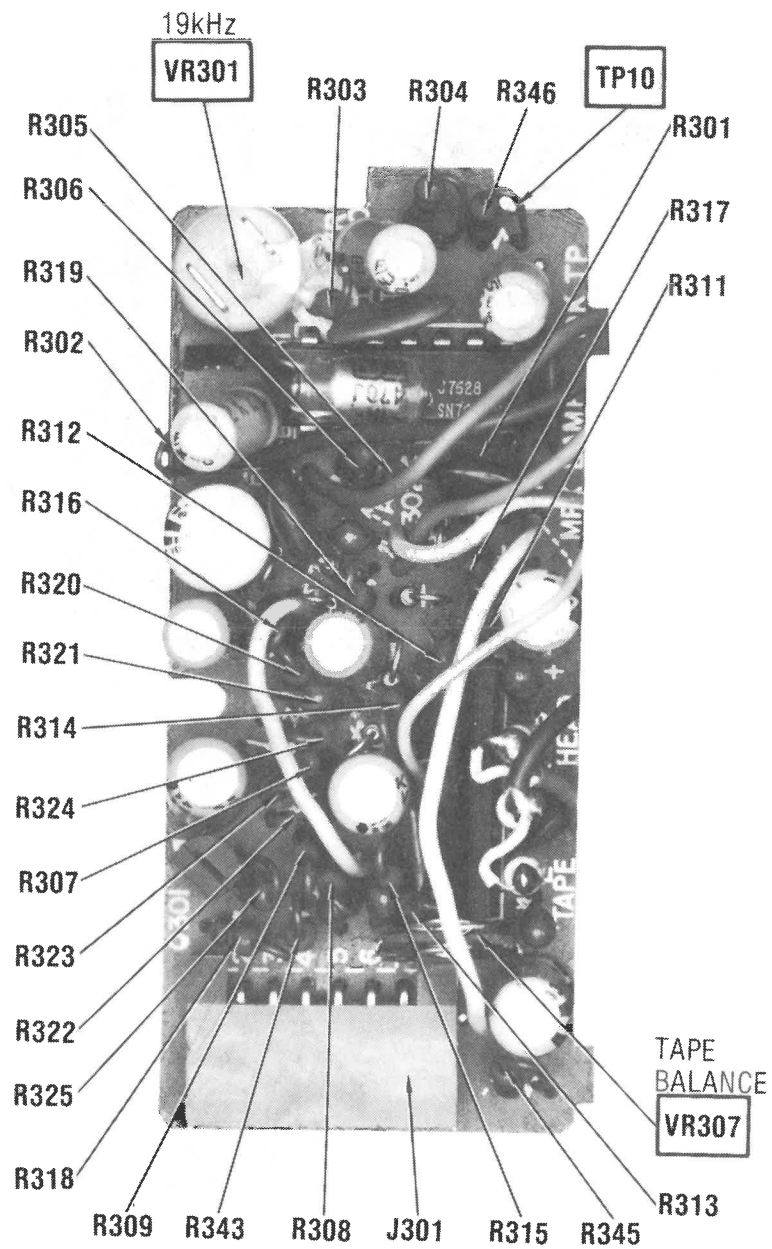
CB BOARD



CHASSIS-TOP



AM RF & IF/FM IF BOARD



MPX & TAPE BOARD

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:
OSC, RT, AT 9089
CRI02, CT103, CT401 8276, 5000
IFT101B, IFT102B, IFT103B, IFT104C,
IFT104D 5009, 8728-A, 8728

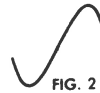


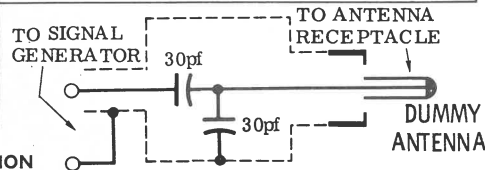
FIG. 2

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.	262.5kHz 400-Hz Mod.	High freq end stop "	IFT104C, IFT104D, IFT103B, IFT102B	Adjust for maximum.
Thru dummy antenna to antenna input.	600kHz 400-Hz Mod.	600kHz	L103	"
Thru dummy antenna to antenna input.	1600kHz 400-Hz Mod.	1600kHz	CT103	"
Thru dummy antenna to antenna input.	1300kHz 400-Hz Mod.	1300kHz	CT103 CT401	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36 ", tune in a weak station near 1400kHz and adjust CT401 for maximum output. Antenna adjustment is located at right rear of tape slot.



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

High side of generator thru .001uF to TP.
Use only enough marker signal for indication. 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
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to TP9. (IC405, Pin 1)	IFT IFT101B	Adjust IFT101 and IFT for maximum amplitude and straightness of line, similar to Fig. 2.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator to antenna input.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Modulated		DC probe of VTVM to TP9 (IC405, Pin 1)	OSC	Adjust for maximum.
106MHz Modulated		"	RT, AT	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

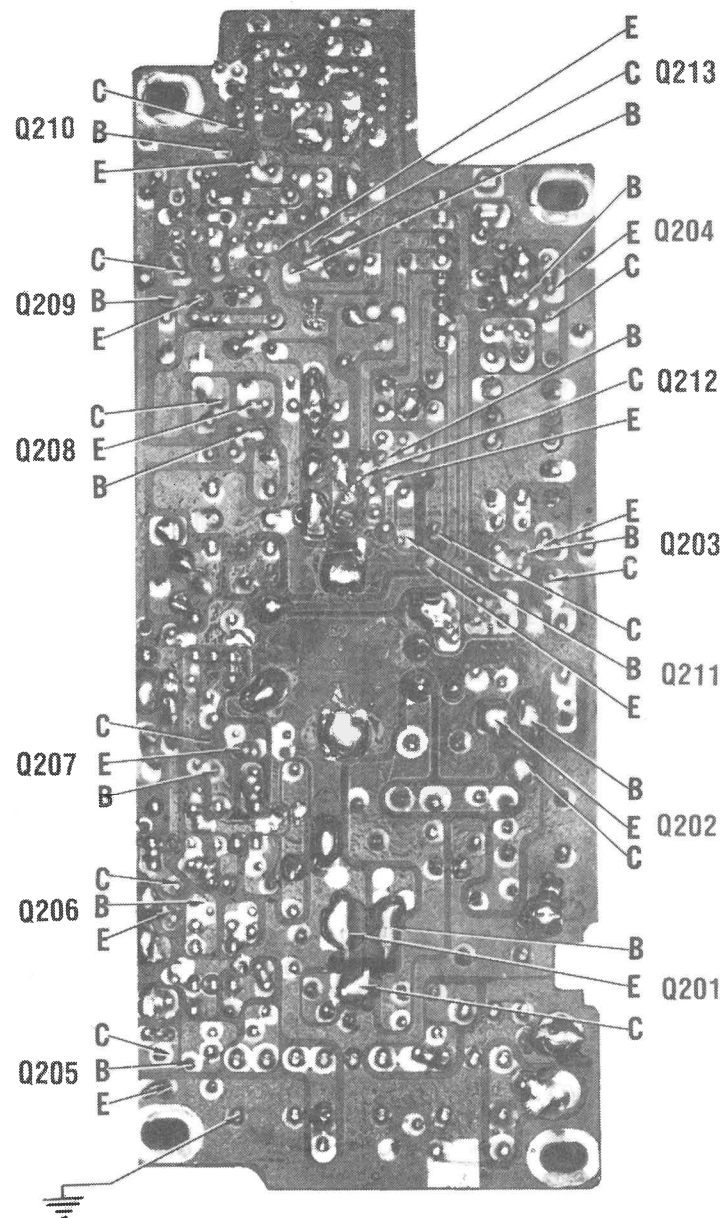
FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control VR401 for best separation.

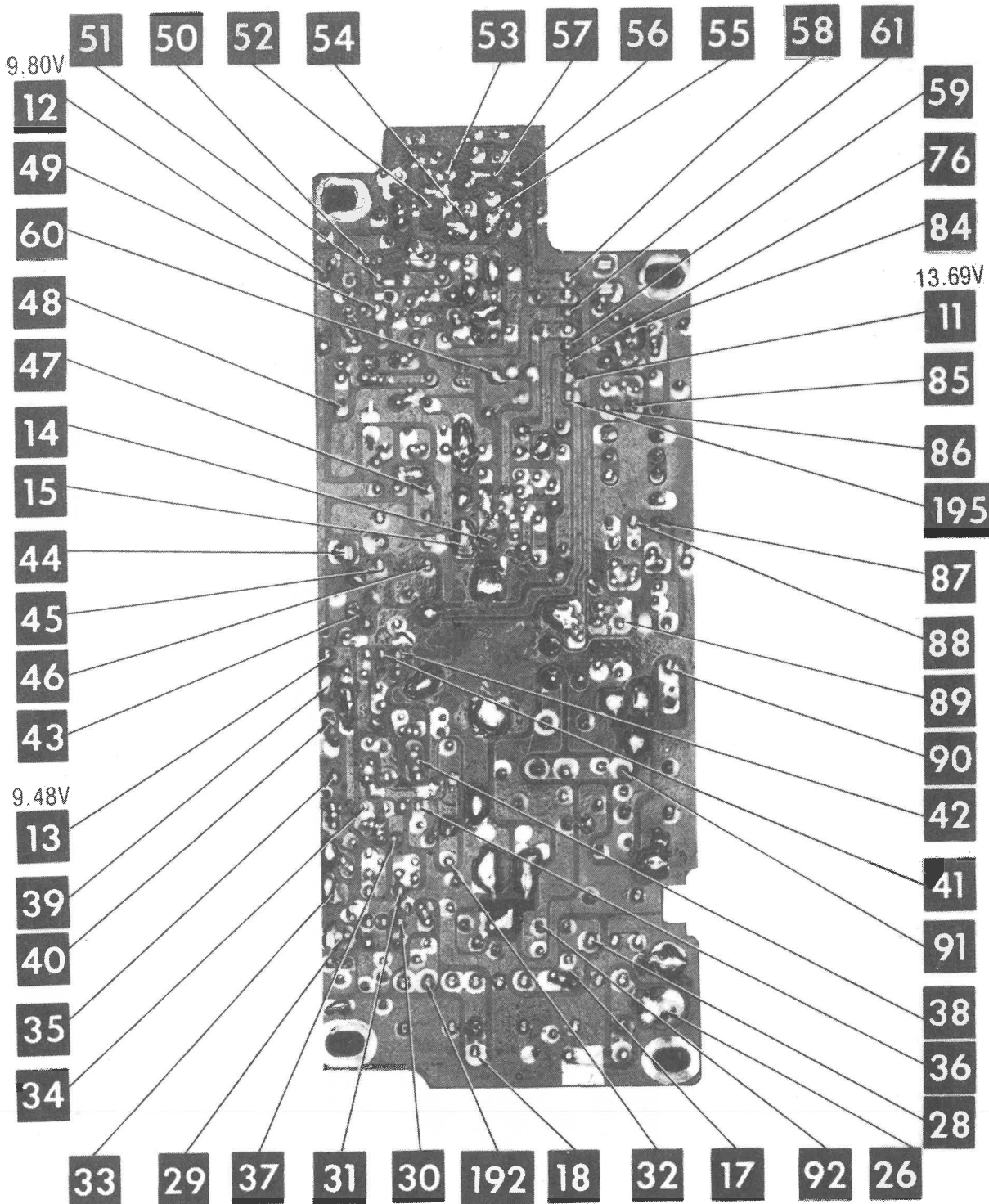
FM STEREO ALIGNMENT USING AUDIO GENERATOR

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Input of frequency counter to TP10 (IC301 Pin 10).	VR301	Adjust for 19kHz $\pm$ 20Hz.

Tune in a weak stereo station. Adjust VR401 for stereo indication on weak stereo but not on noise.

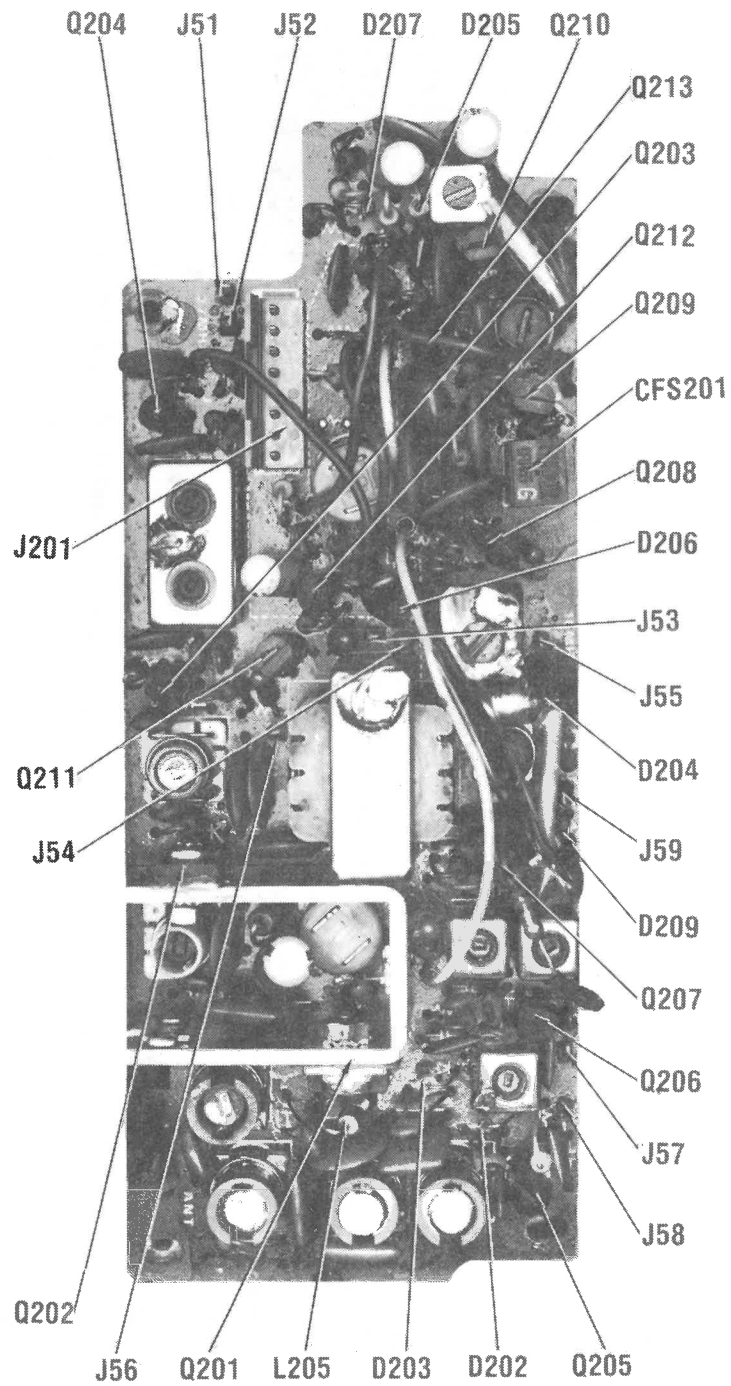


CB BOARD

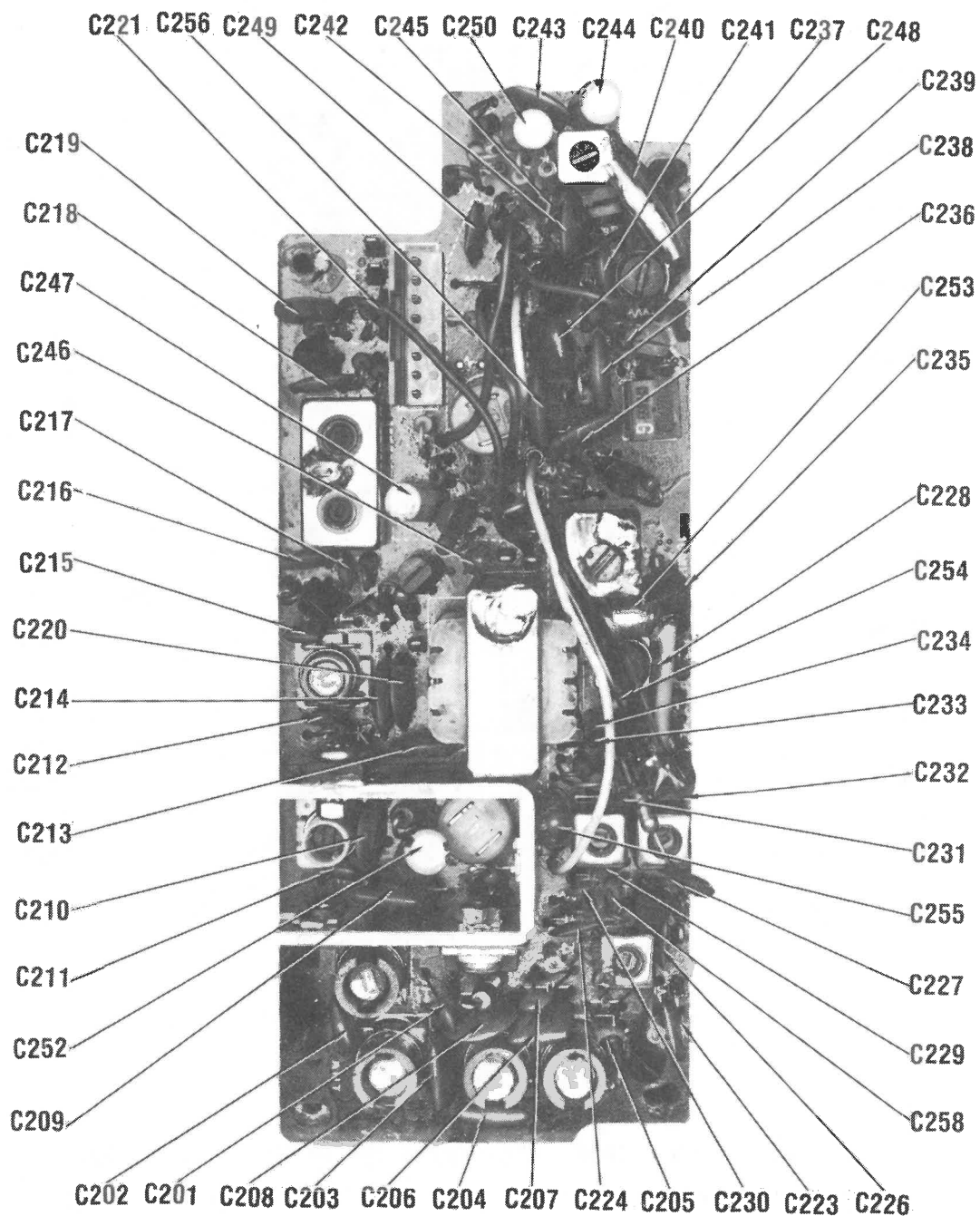


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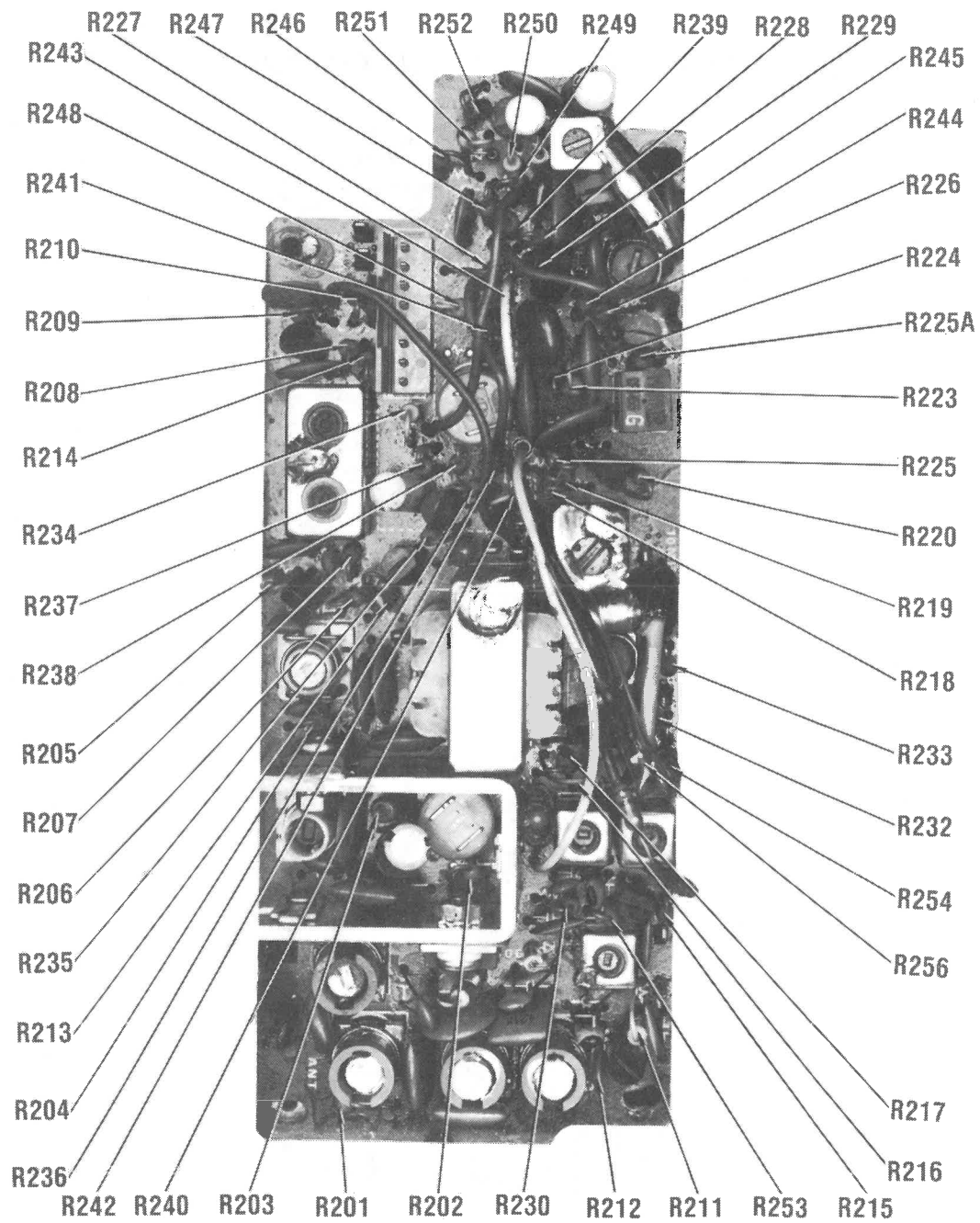
CB BOARD



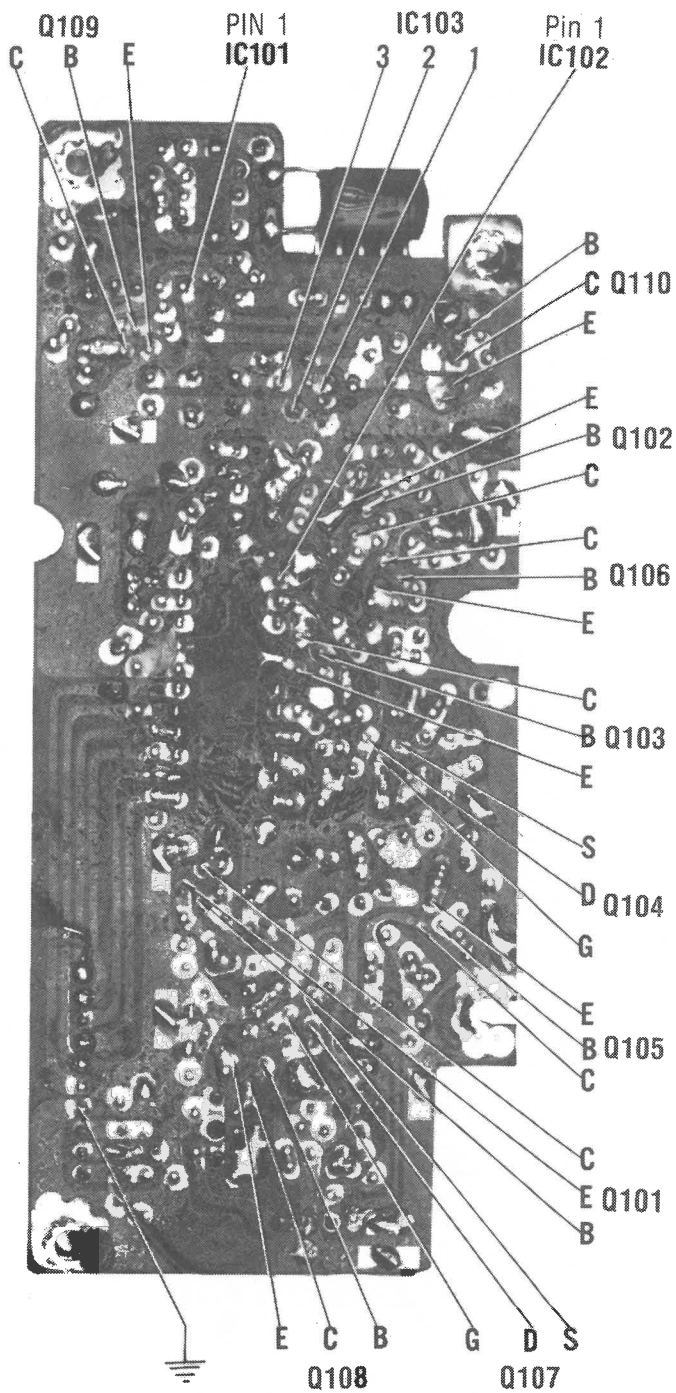
CB BOARD



CB BOARD

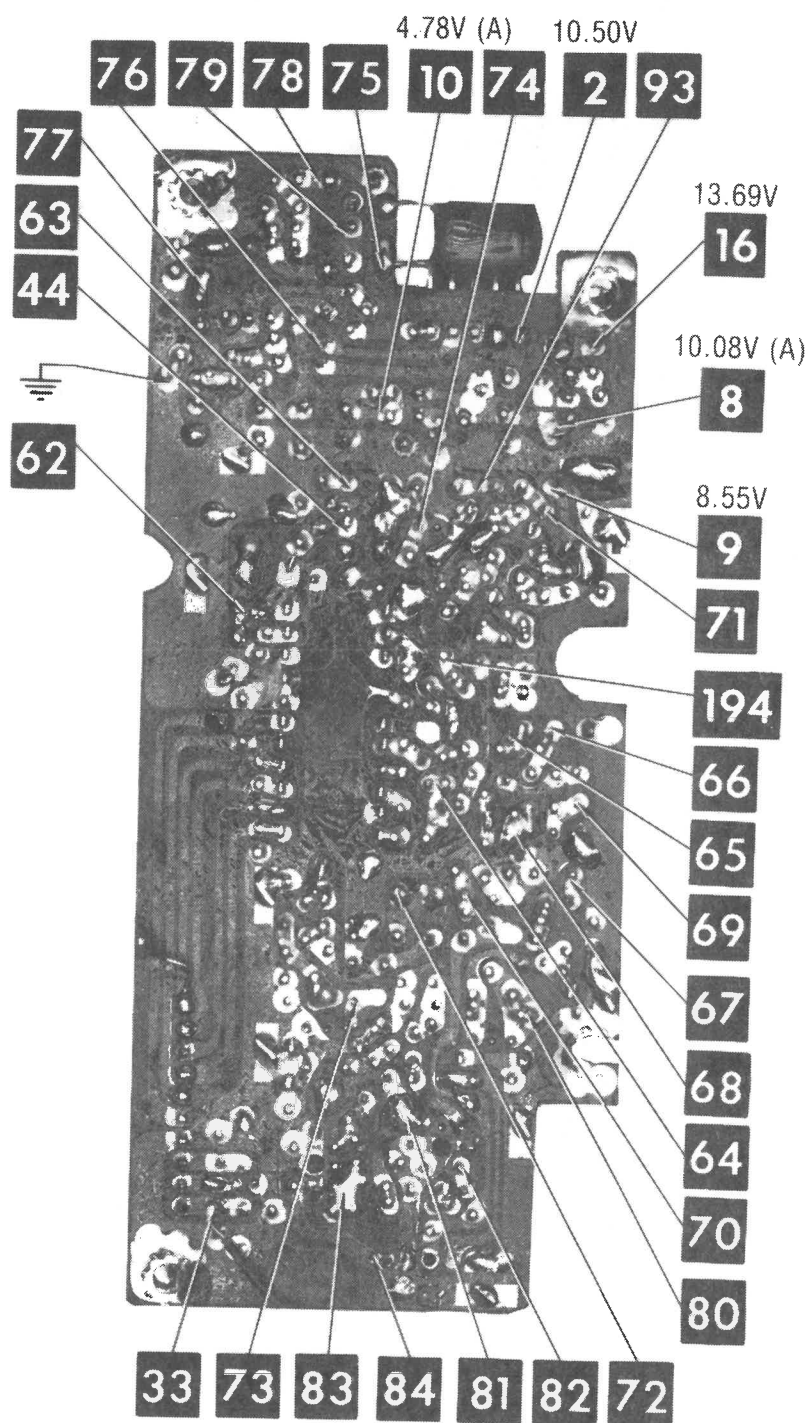


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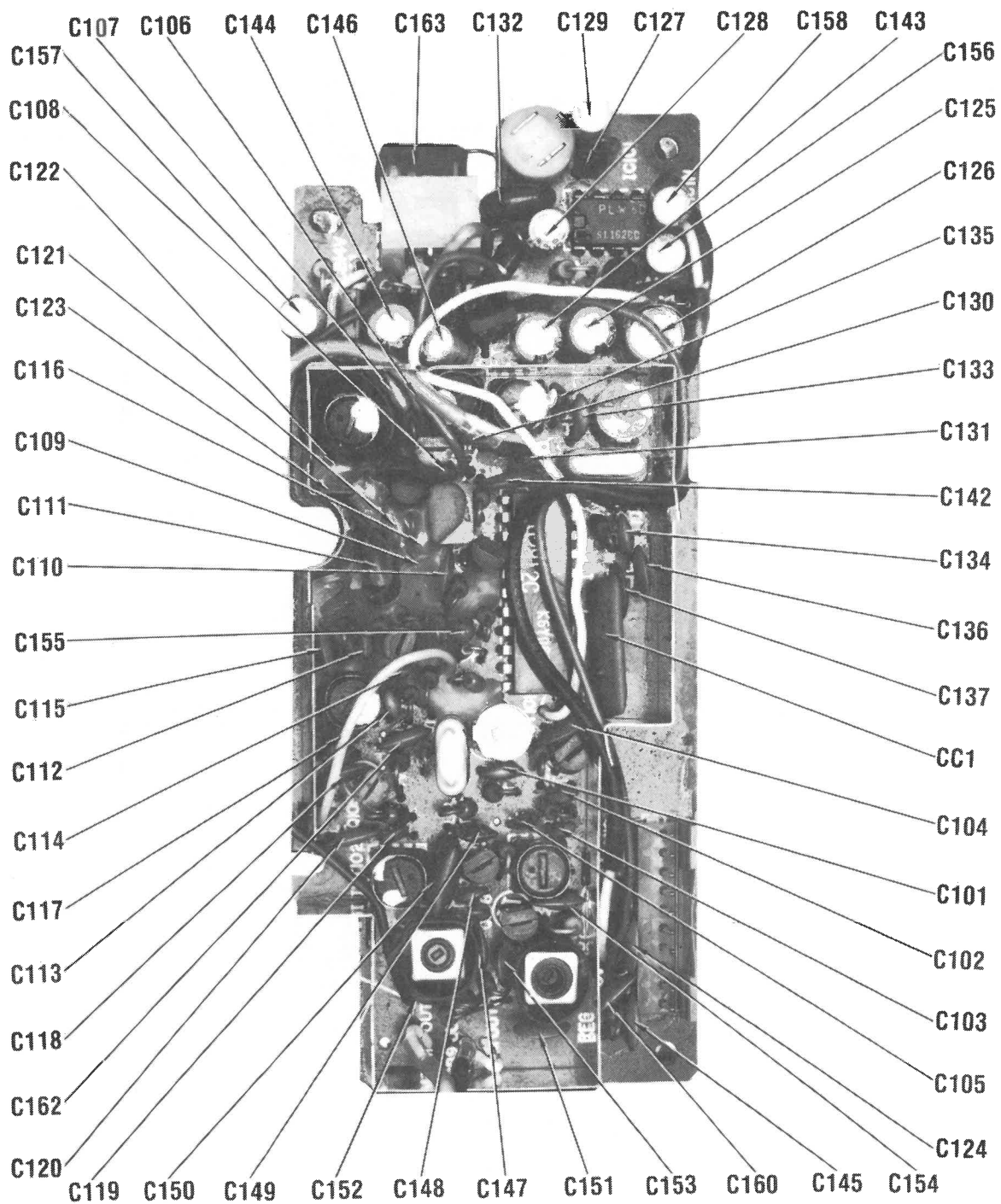


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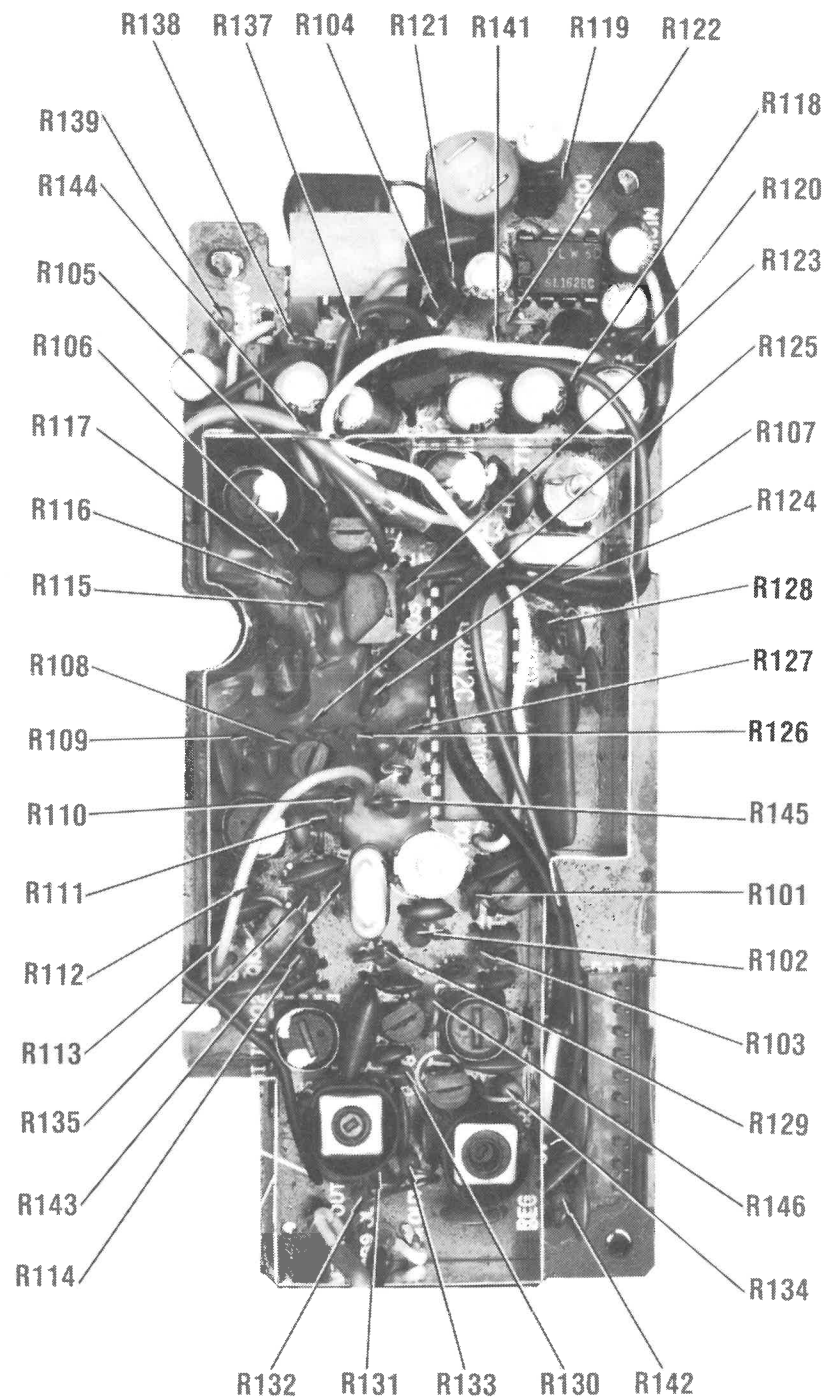
PLL BOARD



PLL BOARD

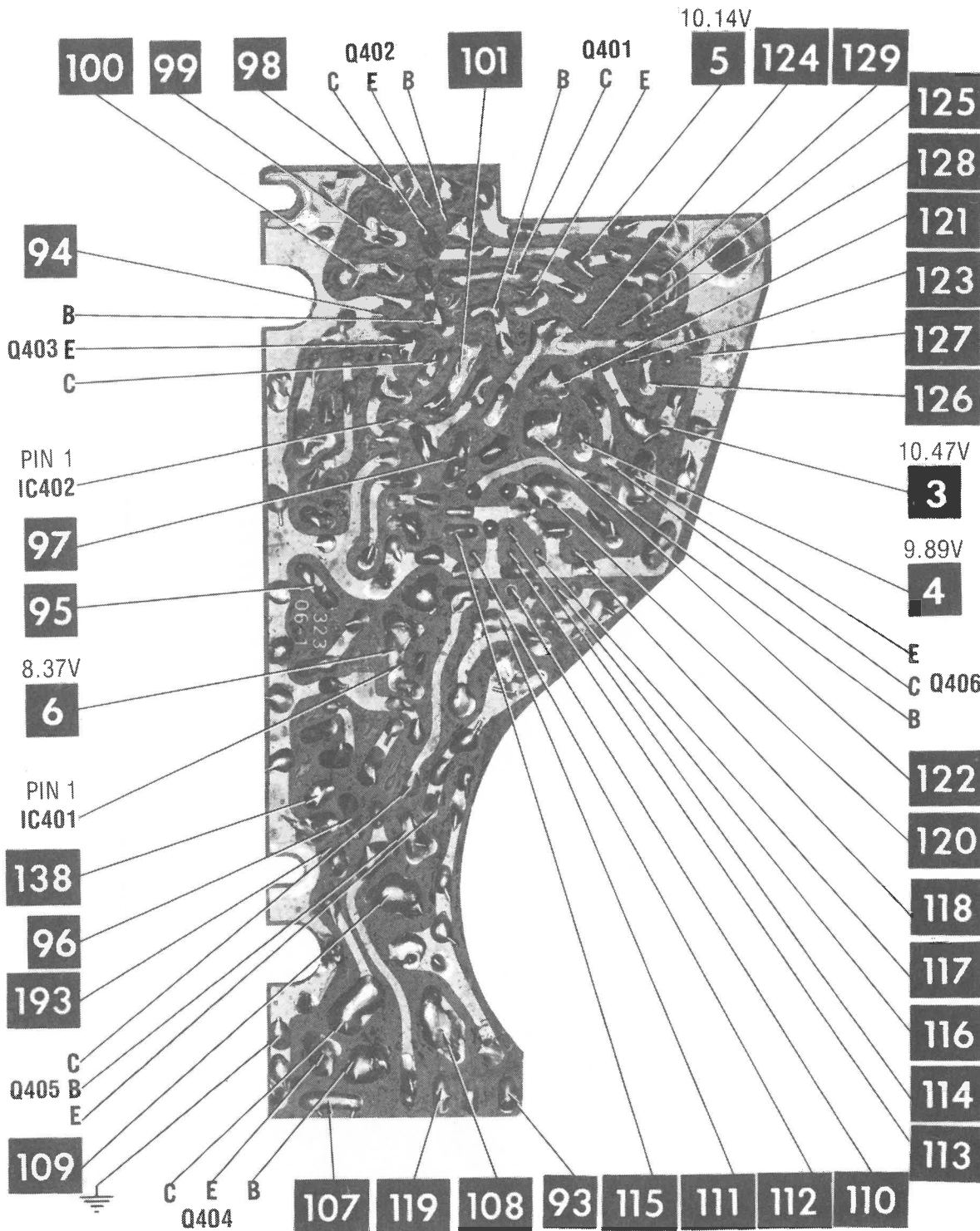


PLL BOARD

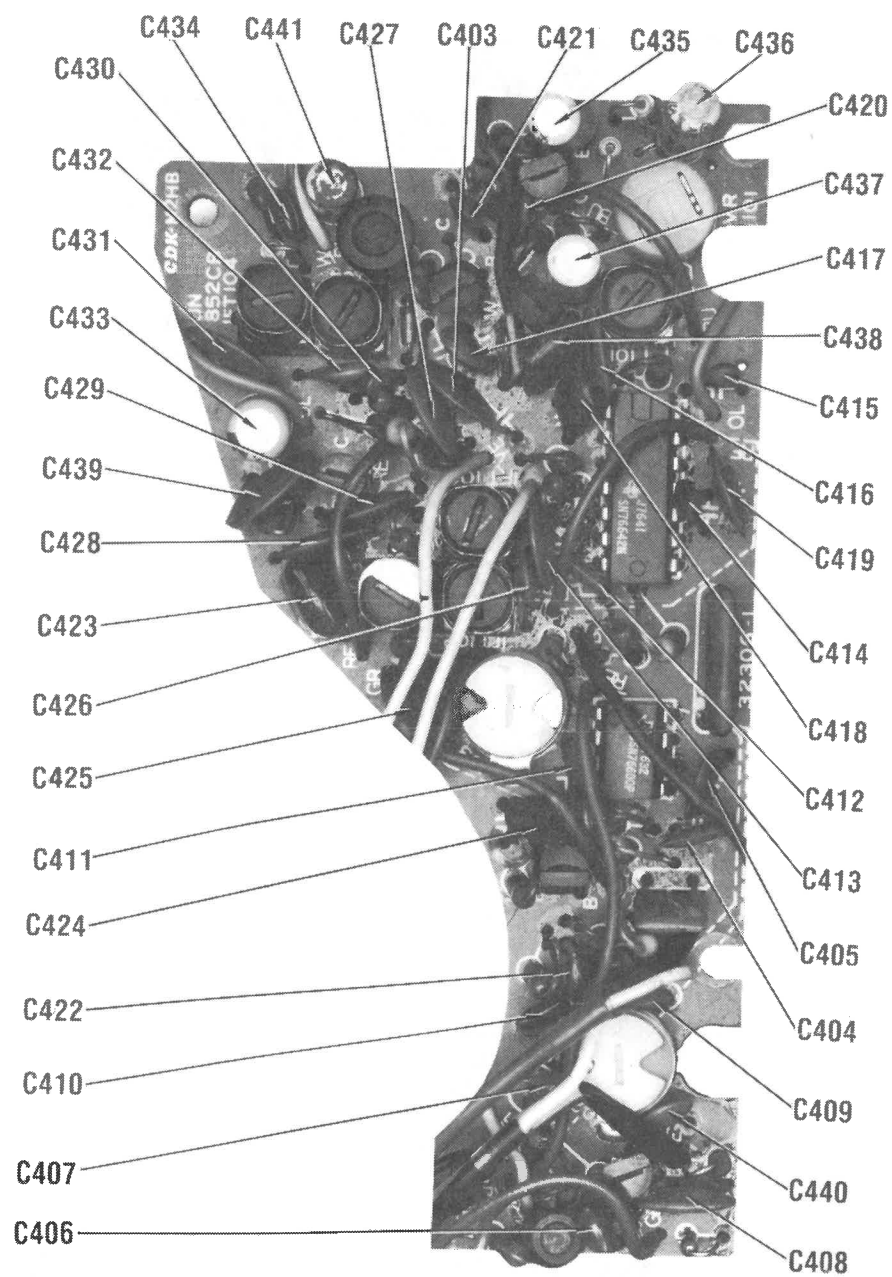


PLL BOARD

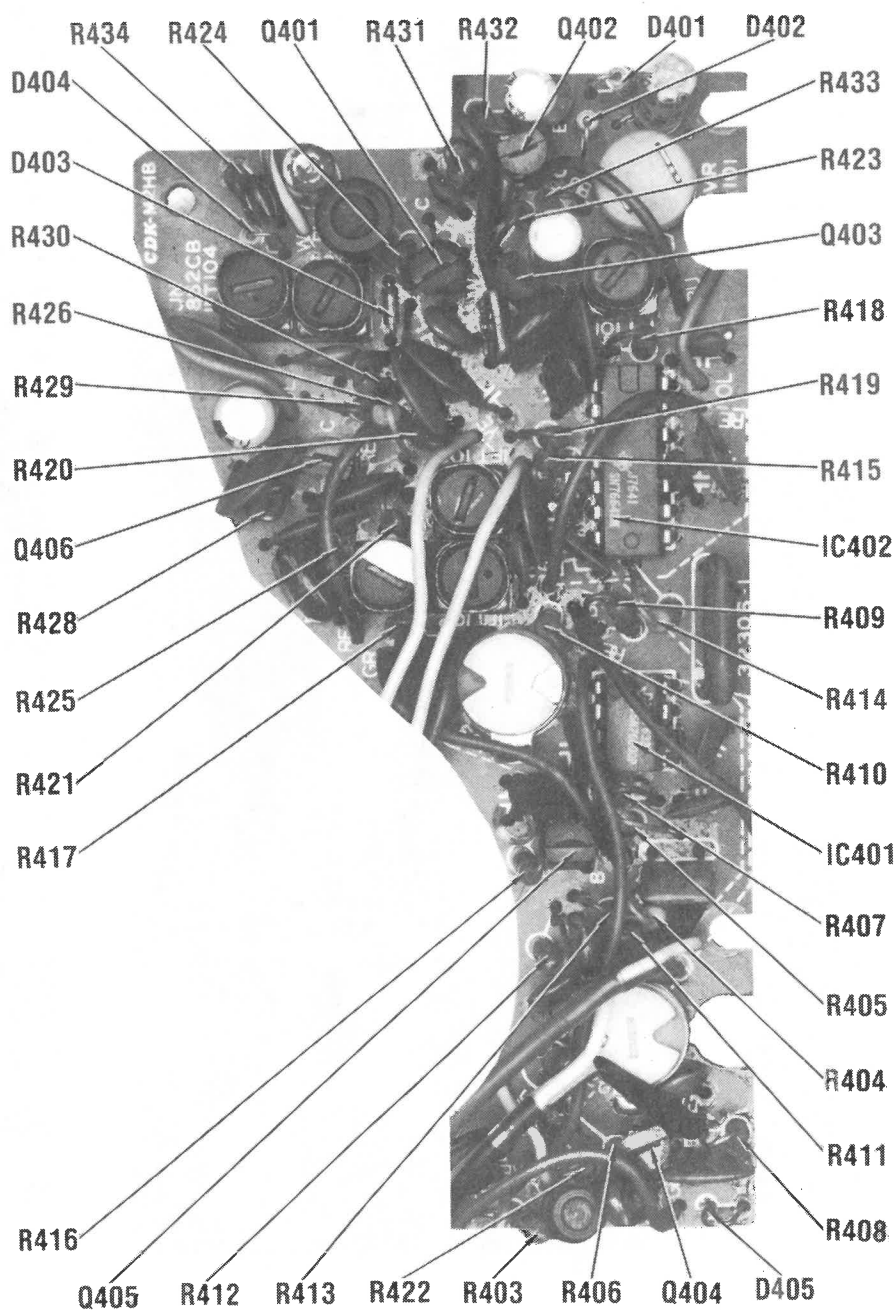
J.I.L. MODEL 860CB



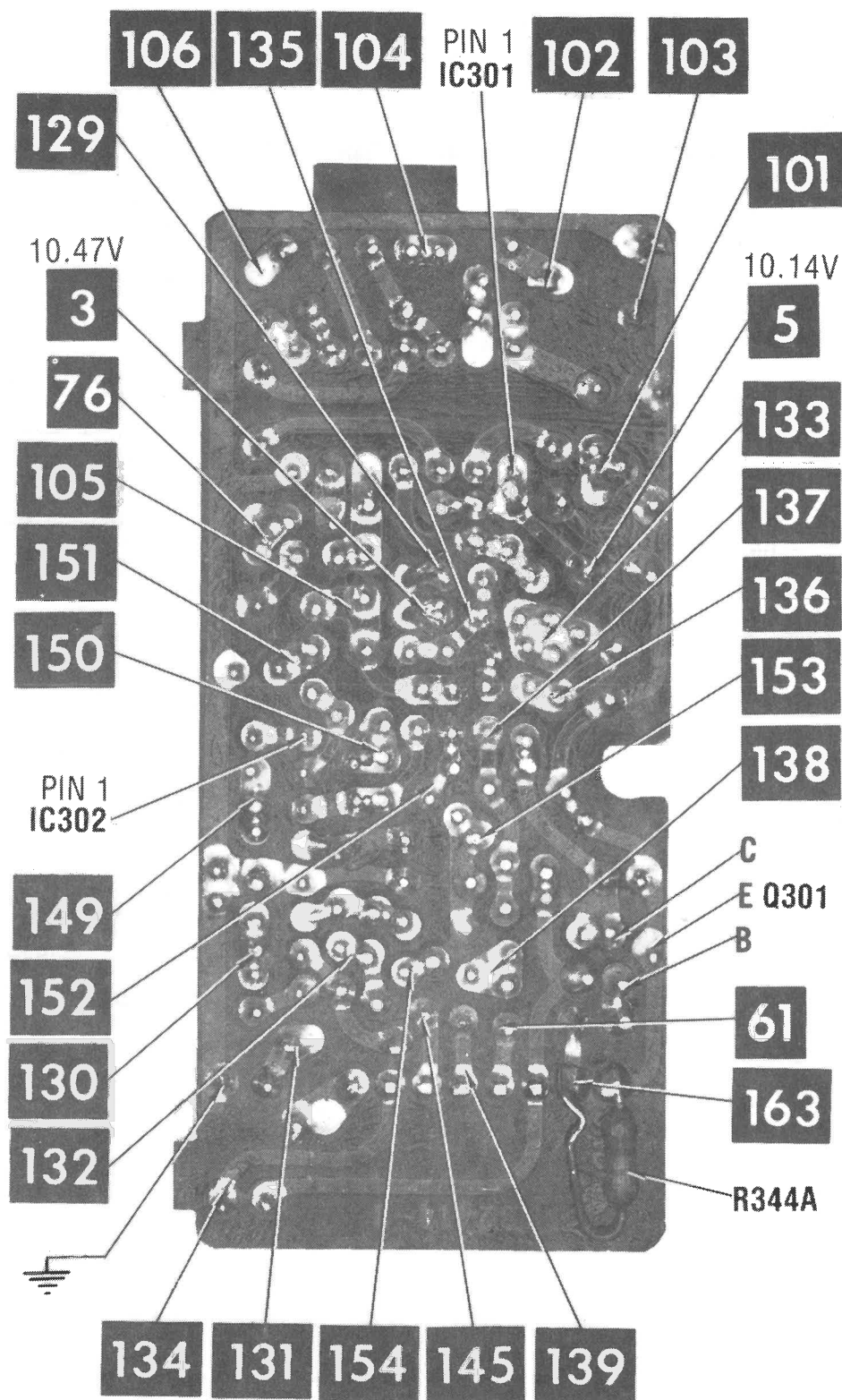
AM & IF/FM IF BOARD



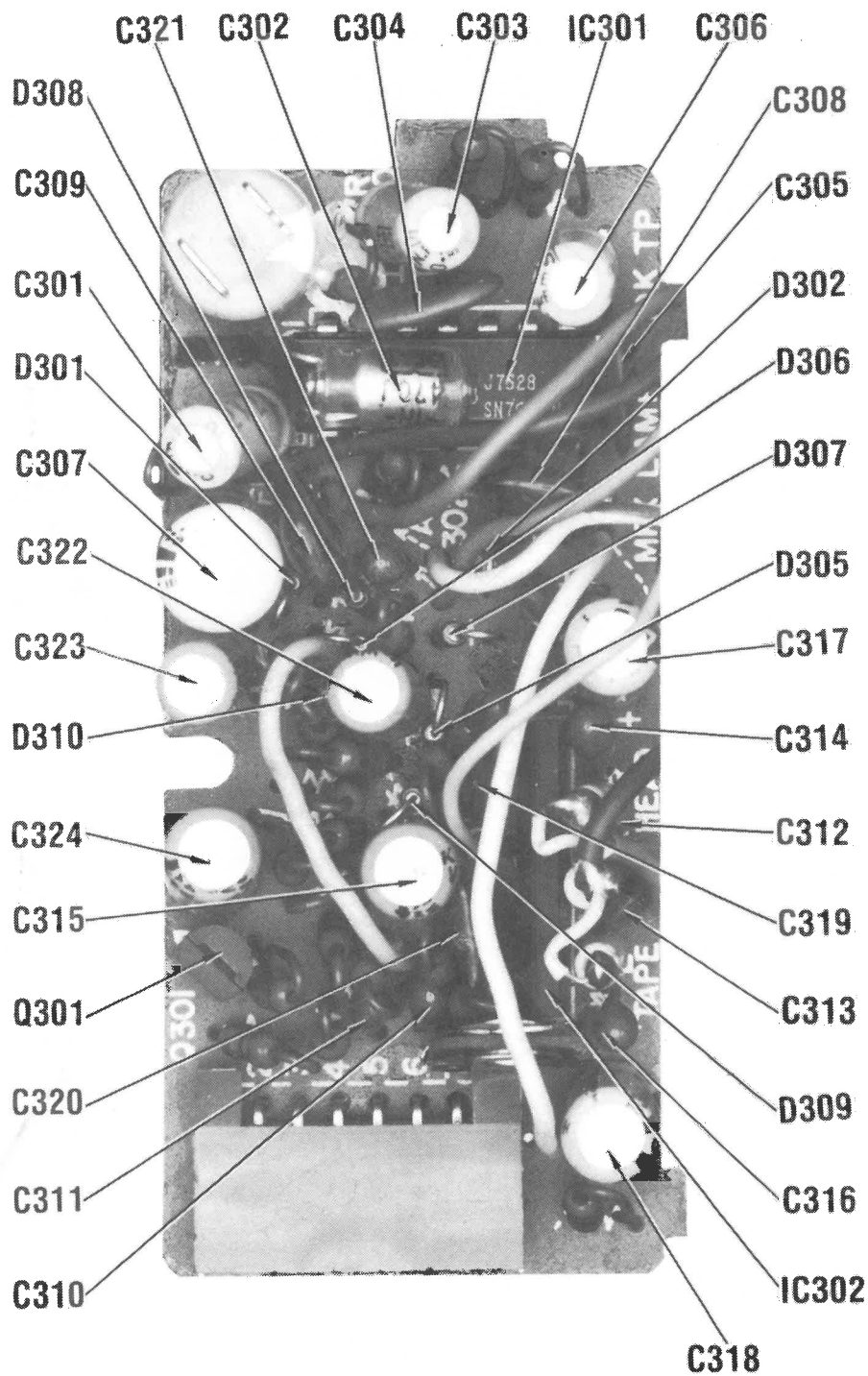
AM RF & IF/FM IF BOARD



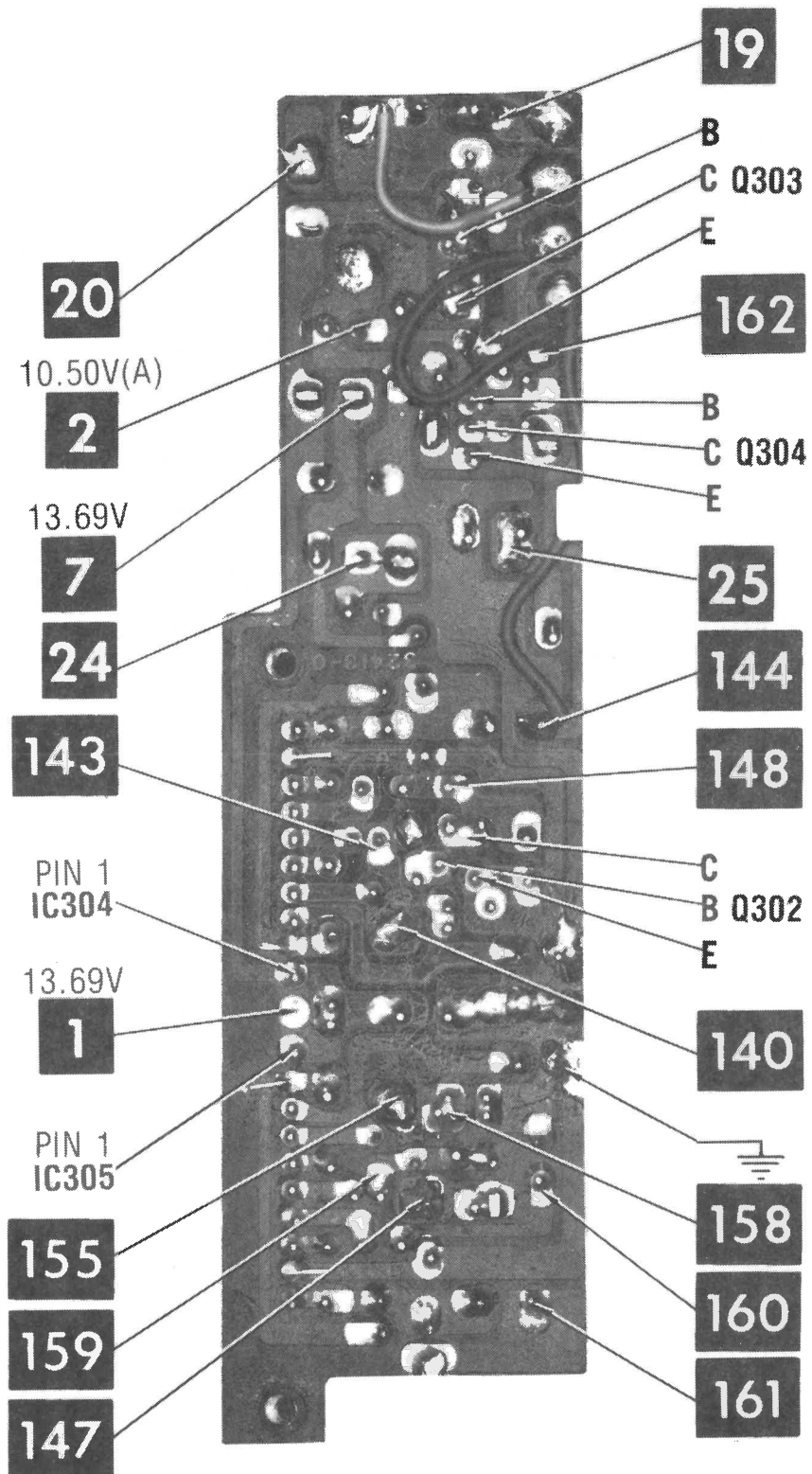
AM & RF/FM IF BOARD



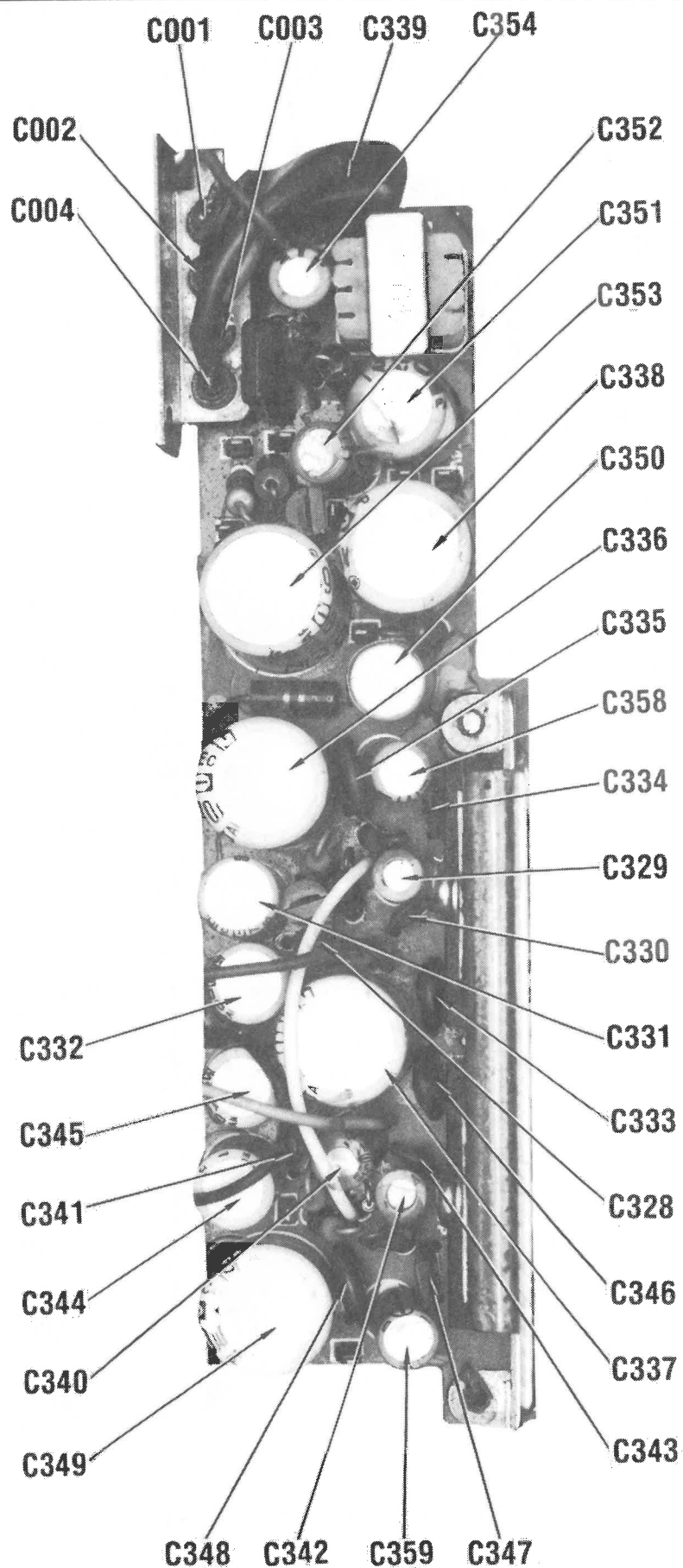
MPX & TAPE BOARD



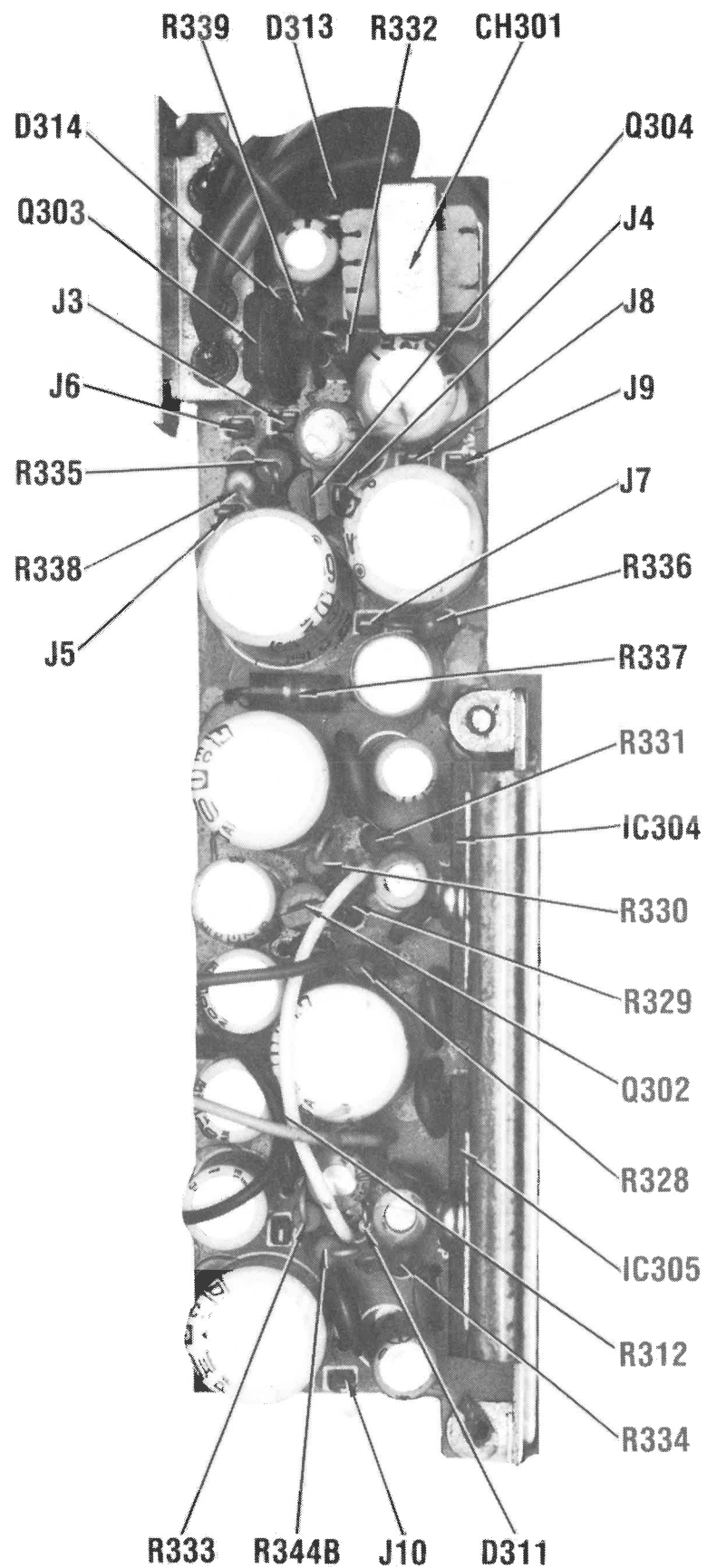
MPX & TAPE BOARD



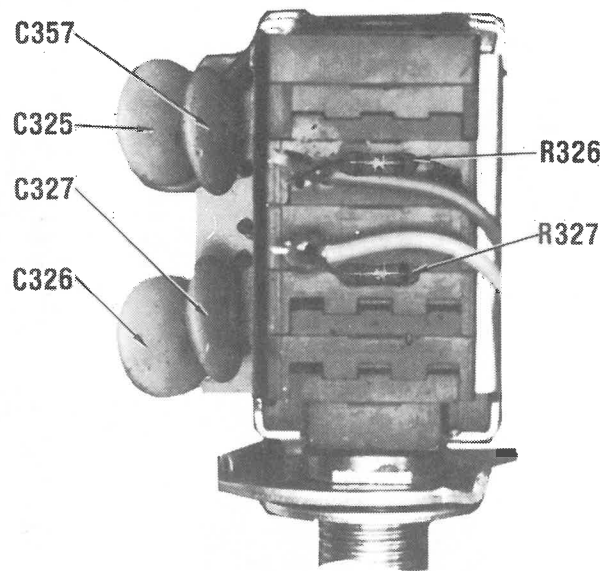
POWER SUPPLY & AUDIO BOARD



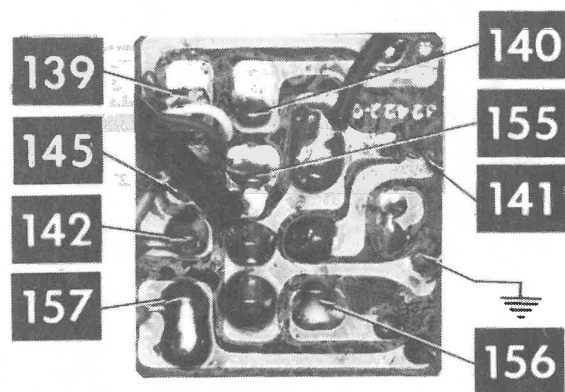
POWER SUPPLY & AUDIO BOARD



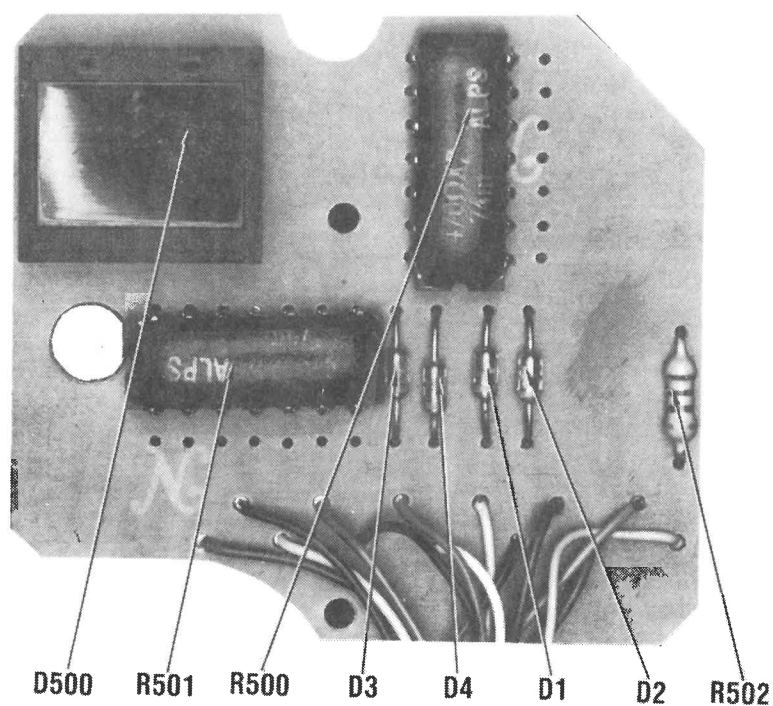
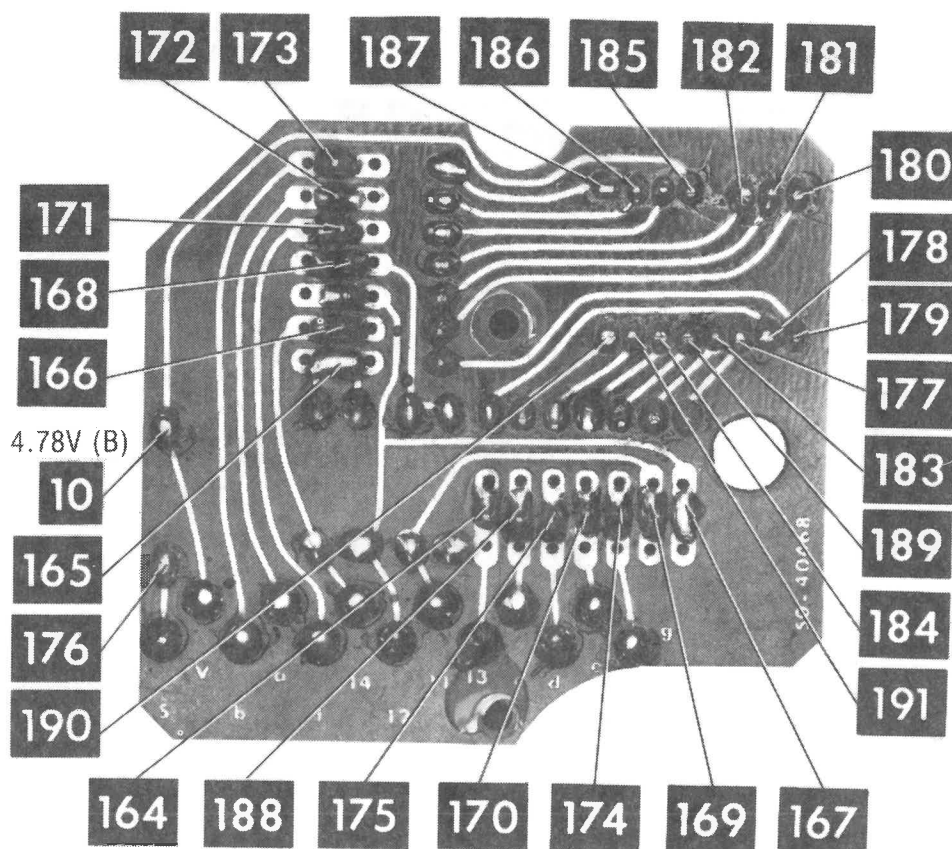
POWER SUPPLY & AUDIO BOARD



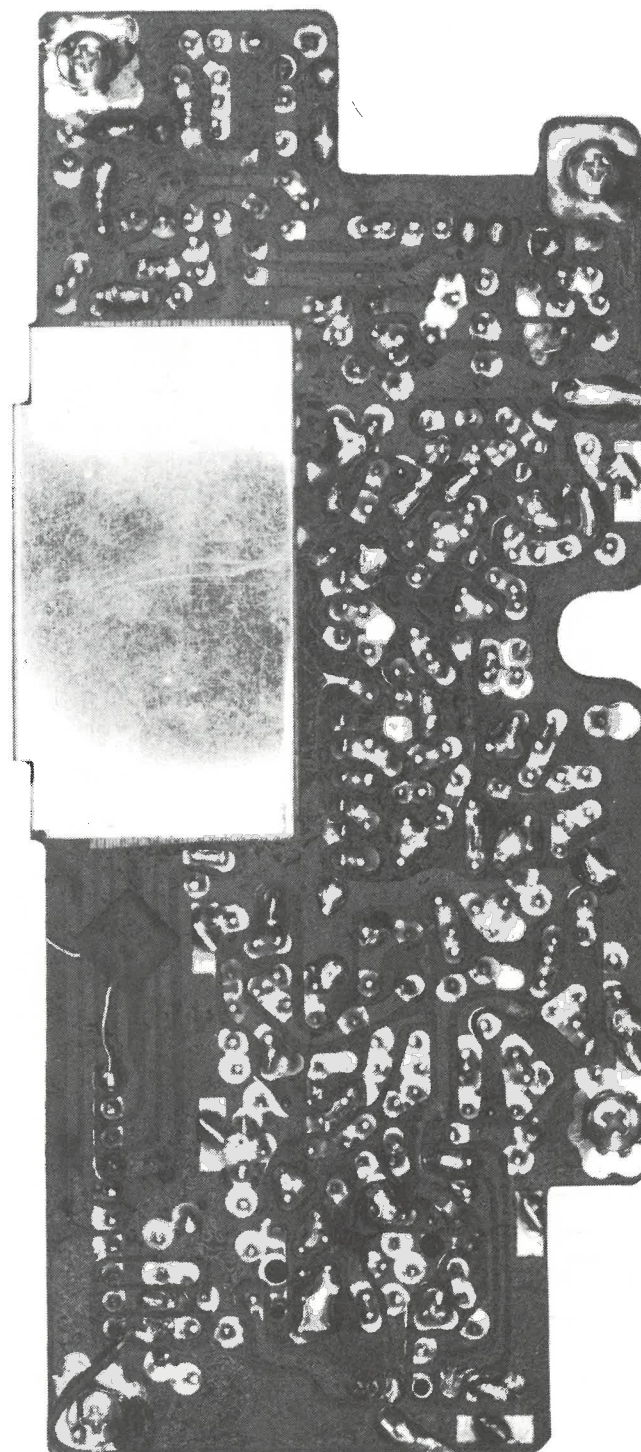
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CONTROL BOARD



LED BOARD



SHIELD LOCATION

TRUTH CHART

C H A N N E L	1 = 4.70 Volts 0 = 0 Volts							REC & XMT VCO OUTPUT IN MHz AT TP5	REC & XMT DIVIDER INPUT OUTPUT IN MHz AT TP6	
	PROGRAM DIVIDER									
	PINS									
		17	16	15	14	13	12			
1		0	0	0	0	0	1		17.180	1.820
2		0	0	0	0	1	0		17.190	1.830
3		0	0	0	0	1	1		17.200	1.840
4		0	0	0	1	0	0		17.220	1.860
5		0	0	0	1	0	1		17.230	1.870
6		0	0	0	1	1	0		17.240	1.880
7		0	0	0	1	1	1		17.250	1.890
8		0	0	1	0	0	0		17.270	1.910
9		0	0	1	0	0	1		17.280	1.920
10		0	1	0	0	0	0		17.290	1.930
11		0	1	0	0	0	1		17.300	1.940
12		0	1	0	0	1	0		17.320	1.960
13		0	1	0	0	1	1		17.330	1.970
14		0	1	0	1	0	0		17.340	1.980
15		0	1	0	1	0	1		17.350	1.990
16		0	1	0	1	1	0		17.370	2.010
17		0	1	0	1	1	1		17.380	2.020
18		0	1	1	0	0	0		17.390	2.030
19		0	1	1	0	0	1		17.400	2.040
20		1	0	0	0	0	0		17.420	2.060
21		1	0	0	0	0	1		17.430	2.070
22		1	0	0	0	1	0		17.440	2.080
23		1	0	0	0	1	1		17.470	2.110
24		1	0	0	1	0	0		17.450	2.090
25		1	0	0	1	0	1		17.460	2.100
26		1	0	0	1	1	0		17.480	2.120
27		1	0	0	1	1	1		17.490	2.130
28		1	0	1	0	0	0		17.500	2.140
29		1	0	1	0	0	1		17.510	2.150
30		1	1	0	0	0	0		17.520	2.160
31		1	1	0	0	0	1		17.530	2.170
32		1	1	0	0	1	0		17.540	2.180
33		1	1	0	0	1	1		17.550	2.190
34		1	1	0	1	0	0		17.560	2.200
35		1	1	0	1	0	1		17.570	2.210
36		1	1	0	1	1	0		17.580	2.220
37		1	1	0	1	1	1		17.590	2.230
38		1	1	1	0	0	0		17.600	2.240
39		1	1	1	0	0	1		17.610	2.250
40		0	0	0	0	0	0		17.620	2.260

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.

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust Screw S07 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust Screw S06 for proper response.

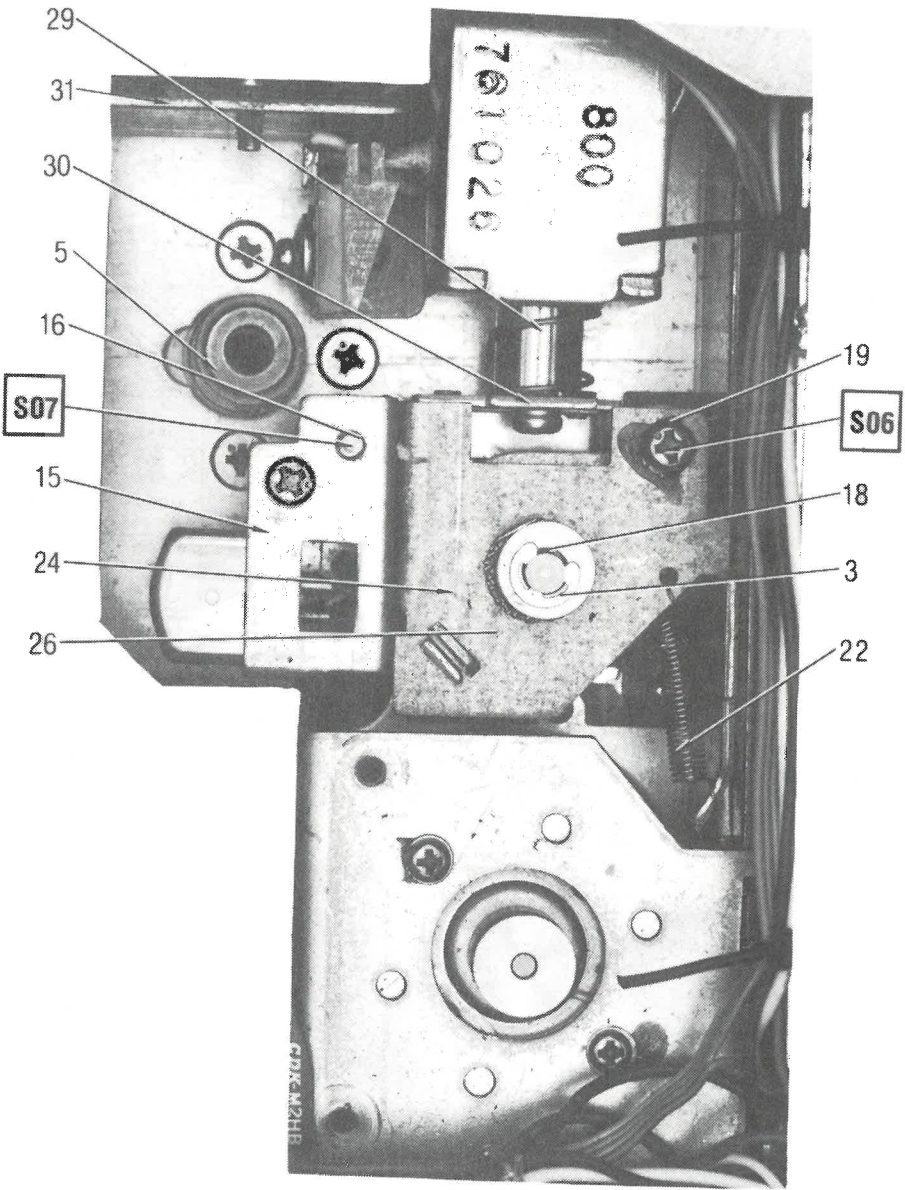
TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt 4 dirty, worn, or broken. Assembly 5 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch S9 dirty. Cam 26 binding or worn. Pawl 30 worn. Assembly 24 binding. Solenoid M2 defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt 4 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.

MECHANICAL PARTS LIST

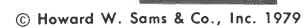
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3	23586	Tension Spring	24	21462	Head Shifting Assembly
4*	23590*	Flywheel Drive Belt*	26	21372	Track Changing
5	23785	Flywheel Bearing	29	23740	Solenoid Spring
9	23791	Flywheel Retainer	30	21381	Pawl Assembly
15	23788	Head Clamp	31	21390	Detent Arm
16	23588	Azimuth Spring	32	21375	Flywheel
18	23589	Head Height Spring	S06	023052	Height Adjust Screw
19	23600	Height Tension Spring	S07	023042	Azimuth Adjust Screw
22	23605	Side Tension Spring			

* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-156.
WALSCO Replacement Number 1425-28.



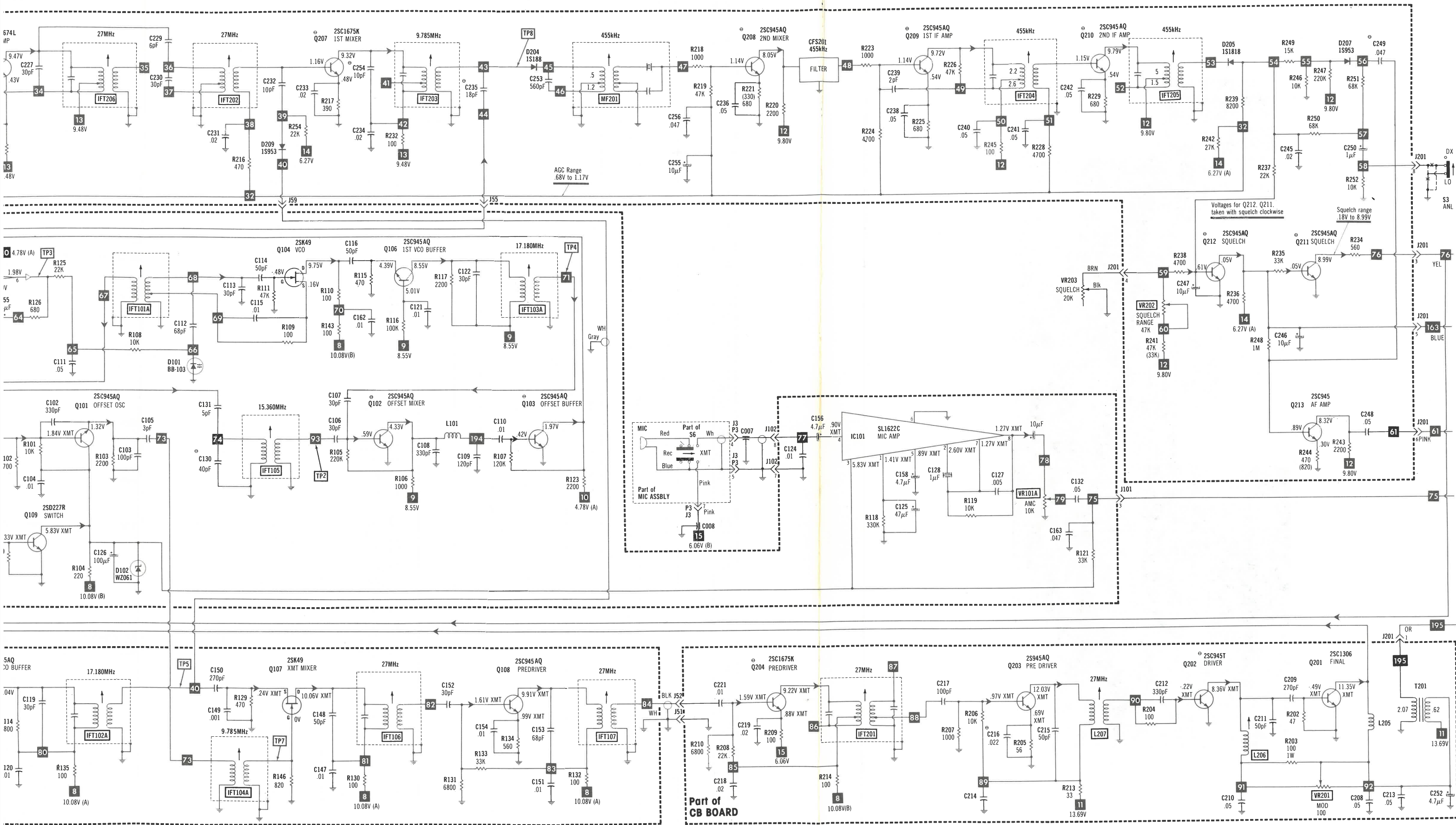
TAPE DECK

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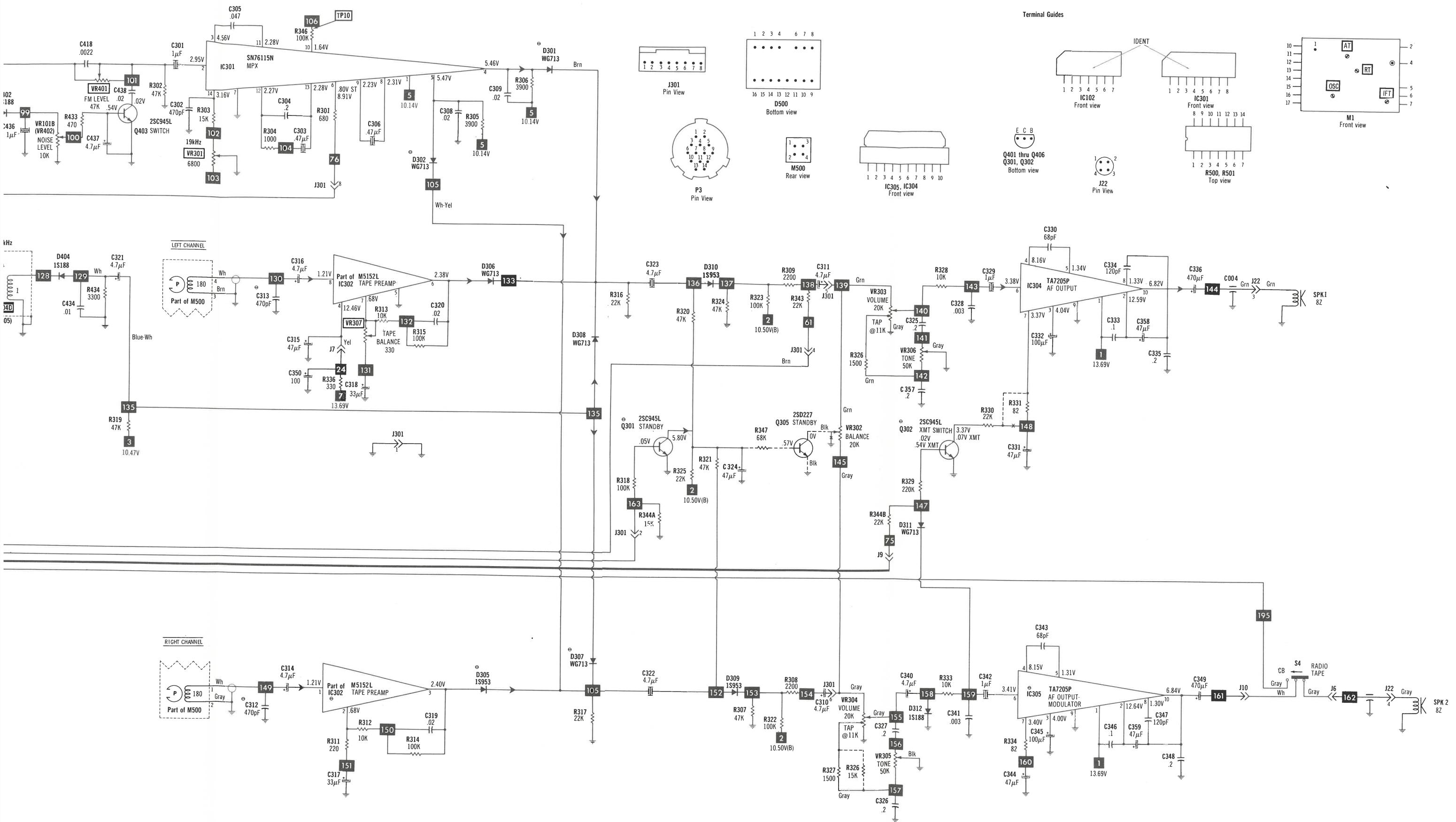


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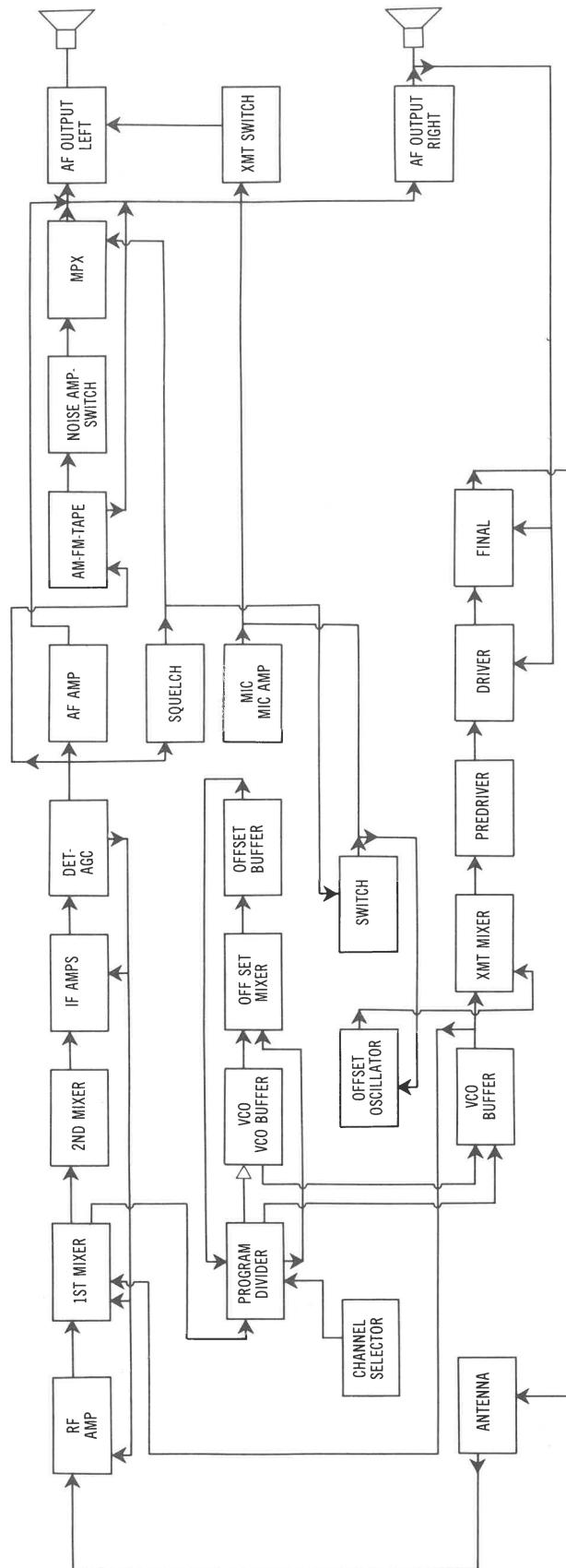




MAIN SCHEMATIC



AM-FM-PLL SCHEMATIC



BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION

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

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	23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
D101	BB-1033L	923271	GE-90		REN 614		RT-262	ECG614		WEP200	103-219	
D102	WZ061	922573	GEZD-6.2	ZB6.2B	REN 137	SK3058	RT-237	ECG137A	TM137/**	WEP1154	103-Z9008	
D103	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D202	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D203	1S188	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D204	1S188	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D205	1S188	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D206	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D207	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D209	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D301	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D302	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D305	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D306	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D307	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D308	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D309	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D310	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D311	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925		
D312	1S188	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D313	SR1K-1	922860	GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02	
D314	WZ-110	922799	GEZD-11	ZB11B	REN 5074	SK3139	RT-242	ECG5074A	TM5074/**	WEP1156	103-279-20	
D401	1S188	922604	GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02	
D402	1S188	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D403	1S953	923147	1N34AS	PTC207	REN 109	SK3087	RT-218	ECG519	TM519	WEP925	103-287	
D404	1S1888	922604	1N34AS	PTC207	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-Z9001	
D405	1S953	923147	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287	
IC101	SL1622C	916138	GE-514	PTC214	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287	
IC102	SL1622C											
IC103	UPD2812C	916149										
IC301	78L05				REN 977	SK3462		ECG977				
IC302	SN76115N	916150			REN 977	SK3462		ECG977				
IC303	MS152L	916106	GEIC-65			SK3451		ECG807				
IC304	MRC1032		GEIC-65			SK3745		ECG1170				
IC305	TA7205P	916110	GEIC-179	PTC780	REN 1155	SK3745	TVCM-81	ECG1155	TM1155	WEP949		
IC401	TA7205P	916110	GEIC-179	PTC780	REN 1155	SK3231	TVCM-81	ECG1155	TM1155	WEP949		
IC402	SN76600P	916111	GEIC-217			SK3234	TVCM-59	ECG746	TM746	WEP2024	221-Z9028	
IC402	SN76642P	916112	GEIC-11	PTC703	REN 709	SK3491	TVCM-5	ECG709	TM709	WEP505	221-Z9002	
Q101	2SC945AQ		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q102	2SC945L	916158	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q103	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q104	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q105	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q106	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q107	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q108	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q109	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q110	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q201	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q202	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q203	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q204	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q205	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q206	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q207	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	

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.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
Q208	2SC945AQ	916158	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q209	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q210	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q211	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q212	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q213	2SC945L		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q301	2SC945L	916033	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q302	2SC945L	916033	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q303	2SC945L	916114	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q304	2SC945L	916056	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q305	2SC945L	916060	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q401	2SC945L	916117	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q402	2SC945L	916117	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q403	2SC945L	916117	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q404	2SC941R	916127	GE-210	PTC132*	REN 123A*	SK3122	RT-107A	ECG123A*	TM123A*	WEP66	121-Z9000A*	
Q405	2SC839F	916050	GE-61*	PTC132*	REN 123A*	SK3444	RT-308	ECG123A*	TM123A*/**	WEP1945	121-Z9000A*	
Q406	2SC839F	916050	GE-61*	PTC132*	REN 123A*	SK3444	RT-308	ECG123A*	TM123A*/**	WEP1945	121-Z9000A*	

(11) ±5% Tol. * Lead configuration may vary from original.
/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C125	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C126	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1131
C128	1 50V NP	913349	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C129	10 16V	913175	PC10-25	VTT10B25	QV1-41	EV-1222
C143	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C144	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C146	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C155	3.3 10V	913456	PC5-50	TDC335M015FL	QDT1-41	SD15-3R39
C156	4.7 16V	913148	PC10-25	VTT4R7B50	QV1-31	EV-1619.1
C157	10 16V	913175	PC10-25	VTT10B25	QV1-41	EV-1222
C158	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C244	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C246	10 10V	913444	PC10-25	TDC106M025FL	QDT1-64	SD25-109
C247	10 16V	913175	PC10-25	VTT10B25	QV1-41	EV-1222
C250	1 50V NP	913042	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C252	4.7 50V	913336	WBRI0-25	TT15X10	QET-177	TVA-1145
C255	10 10V	913444	PC100-16	TDC106M025FL	QDT1-64	SD25-109
C301	1 50V NP	913349	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C303	47 50V NP	913110	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C306	100 16V	913097	PC100-16	VTT100F16	QV1-95	EV-1231
C310	4.7 10V	913443	PC50-16	TDC475M010EL	QDT1-48	SD10-4R79
C311	4.7 10V	913443	PC50-16	TDC475M010EL	QDT1-48	SD10-4R79
C314	4.7 10V	913443	PC50-16	TDC475M010EL	QDT1-48	SD10-4R79
C315	47 16V	913180	PC30-25	VTT47D16	QV1-73	EV-1226
C316	4.7 10V	913443	PC30-25	TDC475M010EL	QDT1-48	SD10-4R79
C317	33 10V	913035	PC30-25	VTT33B10	QV1-73	EV-1225
C318	33 10V	913035	PC30-25	VTT33B10	QV1-73	EV-1225
C321	4.7 10V	913443	PC30-25	TDC475M010EL	QDT1-48	SD10-4R79
C322	4.7 10V NP	913501	PC50-16	TCN105	QEN1-109	TVAN-1110
C323	4.7 10V NP	913501	PC50-16	TCN105	QEN1-109	TVAN-1110
C324	47 16V	913180	WNPI-50	VTT47D16	QV1-73	EV-1226
C329	1 50V NP	913042	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C331	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C332	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1131
C336	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C337	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C338	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C340	4.7 16V	913148	PC5-50	VTT47B50	QV1-31	EV-1619.1
C342	1 50V NP	913042	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C344	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C345	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1131
C349	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C350	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1131
C351	220 10V	913026	PC250-10	VTT220F10	QV1-115	EV-1140
C352	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C353	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C354	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C355	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1251
C358	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C359	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C402	47 10V	913696	PC50-16	VTT47D16	QV1-73	EV-1226
C407	10 10V	913381	PC50-16	TDC106M025FL	QDT1-64	SD25-109
C433	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C435	.47 50V NP	913110	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C436	1 50V NP	913042	WNPI-50	TCN501A	QEN1-20	TVAN-1560
C437	4.7 25V	913148	PC5-50	VTT47B50	QV1-31	EV-1619.1
C441	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222

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
C001		913472					
C002		913472					
C003		913472					
C004		913472					
C005		913472					
C006		913472					
C007		913472					
C008		913472					
C009		913472					
C010		913472					
C011		913472					
C012		913472					
C013		913472					
C014		913472					
C101	30 N330	913482			*		10TCS-Q30
C102	330		DD-331	GP330	GP333		10TS-T33
C103	100		DTZ-100	NP0100	CN0310		10TCC-T10
C104	.01		UK25-103		MAG2511		HY-520
C105	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C106	30		DTZ-33	NP033	CN0433		10TCC-Q33
C107	30		DTZ-33	NP033	CN0433		10TCC-Q33
C108	300		DD-301	GP300	GP330		10TS-T30
C109	120		DTZ-120		CN0312		10TCC-T12
C110	.01		UK25-103		MAG2511		HY-520
C111	.05			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C112	68		DTZ-68	NP068	CN0468		10TCC-Q68
C113	30 N750		DTN-33	N33	CN7433		10TCU-Q33
C114	50		DTZ-50	NP050	CN0450		10TCC-Q50
C115	.01		UK25-103		MAG2511		HY-520
C116	50		DTZ-50	NP050	CN0450		10TCC-Q50
C117	18 NPO 5%				CN0418		10TCC-Q18
C118	.01		UK25-103		MAG2511		HY-520
C119	30 N330	913482			*		10TCS-Q30
C120	.01		UK25-103		MAG2511		HY-520
C121	.01		UK25-103		MAG2511		HY-520
C122	30		DTZ-33	NP033	CN0433		10TCC-Q33
C123	.01		UK25-103		MAG2511		HY-520
C124	.01		UK25-103		MAG2511		HY-520
C127	.005			WMF1D5	EWFTA250		
C130	40 N330 10%	913454			*		10TCS-Q39
C131	5 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C132	.05			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C133	30 N330	913482			*		10TCS-Q30
C134	25 N330 5%	913503			*		10TCS-Q25
C135	5 NPO				CN0547		10TCC-V47
C136	.01		DTZ-4R7	NP04P7	MAG2511		HY-520
C137	.01		UK25-103		MAG2511		HY-520
C142	.01		UK25-103		MAG2511		HY-520
C145	.01		UK25-103		MAG2511		HY-520
C147	.01		UK25-103		MAG2511		HY-520
C148	50		DTZ-50	NP050	CN0450		HY-520
C149	.001		DD-102		GP210		10TCC-Q50
C150	270 10%		DTZ-270				10TS-D10
C151	.01		UK25-103		MAG2511		10TCC-T27
C152	30		DTZ-33	NP033	CN0433		HY-520
C153	68		DTZ-68	NP068	CN0468		10TCC-Q33
C154	.01		UK25-103		MAG2511		10TCC-Q68
C159	.022		UK25-223				HY-520
C160	.022		UK25-223				HY-725
C162	.01		UK25-103				HY-725
C163	.047		DPMS2S47	M192P4739R8	MAG2511	1FT-S47	HY-520
C201	30 N330	913482			*		10TCS-Q30

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	
C202	150 10%	913482	DTZ-2R2	CD15FD151J03	SX315	QW1-31	MWA-151	
C203	220 10%			CD15FD221J03	SX322	QW1-35	MWA-221	
C204	270 10%			CD15FD271J03	SX327	QW1-37	MWB-271	
C205	2 NPO			NP02P2	CN0522	QW1-29	10TCC-V22	
C206	120 10%			CD15FD121J03	SX312		MWA-121	
C207	30 N330				*		10TCS-Q30	
C208	.05			UK50-503	MAG5015			
C209	270 10%				CD15FD271J03	QW1-37	MWB-271	
C210	.05			UK50-503				
C211	50			DTZ-50	NP050	CN0450	10TCC-Q50	
C212	330		DD-331	GP330	GP333	10TS-T33		
C213	.05		UK50-503		MAG5015			
C214	.047		UK25-503		MAG2515	HY-735		
C215	50		DTZ-50	NP050	CN0450	10TCC-Q50		
C216	.022		UK25-223			HY-725		
C217	100		DTZ-100	NP0100	CN0310	10TCC-T10		
C218	.02		UK50-223		MAG5012			
C219	.02		UK50-223		MAG5012			
C220	.047		UK25-503		MAG2515			
C221	.01		UK25-103		MAG2511	HY-735		
C223	.02		UK50-223		MAG5012	HY-520		
C224	.022		UK25-223					
C226	.02	UK50-223		MAG5012	HY-725			
C227	30 N330	913482	UK50-223	*		10TCS-Q30		
C228	.02				MAG5012			
C229	6 N330	913508		*		10TCS-V56		
C230	30 N330	913492		*		10TCS-Q30		
C231	.02	913052	UK50-223		MAG5012			
C232	10 N220			*		10TCR-Q10		
C233	.02				MAG5012			
C234	.02				MAG5012			
C235	1				CN0510	10TCC-V10		
C236	.05			UK50-503	MAG5015			
C237	.02			UK50-223	MAG5012			
C238	.05			UK50-503	MAG5015			
C239	2 NPO			DTZ-2R2	NP02P2	CN0522	10TCC-V22	
C240	.05			UK50-503		MAG5015		
C241	.05			UK50-503		MAG5015		
C242	.05			UK50-503		MAG5015		
C243	.2 12V			UK16-204			HY-470	
C245	.02 10%				DPMS2S2	PVC212	2PS-S20	
C248	.05 10%				DPMS2S5	EWFA1A150	2PS-S50	
C249	.047 50V				DPMS2S47	EWFA1A147	1PB-S47	
	.02			UK50-223		MAG5012		
C253	560 5%	913052	UK50-223	CD19FD561J03	SX356		MWC-561	
C254	10 N220				*		10TCR-Q10	
C256	.047			UK25-503	MAG2515		HY-735	
C258	1 NPO				CN0510		10TCC-V10	
C302	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471	
C304	.2 12V						HY-470	
C305	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47	
C308	.02 50V			DPMS2S5	EWFA1A150		2PS-S50	
C309	.02 50V			DPMS2S5	EWFA1A150		2PS-S50	
C312	470				GP470		10TS-T47	
	680			DD-471	GP680		10TS-T68	
C313	470			DD-471	GP470		10TS-T47	
	680			DD-681	GP680		10TS-T68	
C319	.02 50V				DPMS2S5	EWFA1A150	2PS-S50	
C320	.02 50V				DPMS2S5	EWFA1A150	2PS-S50	
C325	.2 12V			UK16-204			HY-470	
C326	.2 12V			UK16-204			HY-470	
C327	.2 12V			UK16-204			HY-470	
C328	.003 50V				DPMS6D3		6PS-D30	
C330	68				NP068	PVC623	10TCC-Q68	
C333	.1 12V			DTZ-68		CN0468	HY-360	
C334	120			UK12-104		MAG1201	10TCC-T12	
C335	.2 12V			DTZ-120		CN0312	HY-470	
C339	.1 50V	UK16-204			431P1049R5			
C341	.003 50V		WMF05P1	EWFO5010	6PS-D30			
C343	68		DPMS6D3	PVC623	10TCC-Q68			
C346	.1 12V	DTZ-68	NP068	CN0468	HY-360			
C347	120	UK12-104		MAG1201	10TCC-T12			
C348	.2 12V	DTZ-120		CN0312	HY-470			
C356	.05	UK16-204		MAG5015				
C357	.2 12V	UK16-204			HY-470			
C401	22	UK16-204			10TCC-Q22			
C403	.047 50V	DTZ-22	NP022	CN0422	QF1-171	1PB-S47		
			DPMS2S47	EWFA1A147				
C404	.022 50V	913052	DTZ-68		M192P2239R8		192P2239R8	
C405	.022 50V				M192P2239R8		192P2239R8	
C406	.002 50V				PVC622		6PS-D20	
C408	.047 50V			DPMS6D2	EWFA1A147	QF1-171	1PB-S47	
C409	68			NP068	CN0468		10TCC-Q68	
C410	.002 50V			DPMS6D2	PVC622		6PS-D20	
C411	.02 50V			DPMS2S5	EWFA1A150		2PS-S50	
C412	.022 50V				M192P2239R8		192P2239R8	
C413	.047 50V				EWFA1A147	QF1-171	1PB-S47	
C414	20 NPO			DTZ-20	CN0420		10TCC-Q20	
C415	220			DTZ-220			10TCC-T22	
C416	.047 50V				DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C417	.001 N220							
C418	.0022 50V					M192P2229R8	192P2229R8	
C419	.047 50V				DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C420	.001 50V					GP210		10TS-D10
C421	100			DD-102	NP0100	CN0310	10TCC-T10	
C422	.01 50V			DTZ-100	WMF1S1	EWFA1A10	QF1-91	1PB-S10
C423	.05 50V				DPMS2S5	EWFA1A150		2PS-S50

J.I.L. MODEL 860CB

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
C424	.0047 50V				M192P4729R8		192P4729R8
C425	270 10%				SX327		MMB-271
C426	50		DTZ-50	NP050	CN0450	QW1-37	10TCC-Q50
C427	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47
C428	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47
C429	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47
C430	220		DTZ-220				10TCC-T22
C431	.05 50V		UK50-503				
C432	62		DTZ-82	NP082	MAG5015		10TCC-082
C434	.01 50V			WMF1S1	CN0482	QF1-91	1PB-S10
C438	.02 50V			DPMS2S2	EWFI1A110		2PS-S20
C439	.3 12V	913260	304		PVC212		
C440	39 1470	913172			*		10TCT-Q39
CC1	4 @ .01						
CT102	20	913429					
CT102	20	913429					
CT401	100	913287					
CT402	50	922965					
CT403	50	922965					

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR101A	A.M.C.	10K	915381			U260R103B
VR101B	Noise Level	10K	915399			U260R103B
(VR402)						
VR201	MOD	100	915460			
VR202	Squelch Range	47K	915428			U260R503B
VR203	Squelch	20K	915400			
VR301	19kHz	6800	915434			
VR302	Balance	20K	915467			
VR303	Volume	20K Tap 11K	915456 (18)			
VR304	Volume	20K Tap 11K				
VR305	Tone	50K				
VR306	Tone	50K				
	Power Switch					
	Prog.Sel. Switch					
VR307	Tape Balance	330	915455			
VR401	FM Level	10K	915313			U260R103B

(18) Includes VR303, VR304, VR305, VR306, S1 and S8.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT101A	VCO	923186	12778		(1) Part of Tuner (M1).
IFT101B	FM Limiter Det(10.7MHz)	922501	10741		
IFT102A	2nd VCO Buffer(17.180MHz)	922922	12161		
IFT102B	AM Converter(262.5kHz)	922907	3094		
IFT103A	1st VCO Buffer(17.180MHz)	922922	12161		
IFT103B	AM Converter	922907	3094		
IFT104A	Offset Oscillator(9.785MHz)	922501	10741		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)(cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT104C	AM IF (262.5kHz)	922906	3095		
IFT104D	AM IF (262.5kHz)	922906	3095		
IFT105	OffSet Mixer(15.360MHz)	922922	12161		
IFT106	XMT Mixer (27MHz)	922923	4911		
IFT107	Predriver (27MHz)	922923	4911		
IFT108	Reference Osc (10.240MH (10.240MHz)	922501	10741		
IFT201	Predriver (27MHz)	923189			
IFT202	RF Amp (27MHz)	922971	4938		
IFT203	Mixer (9.785MHz)	923171	M402-052		
IFT204	IF (455kHz)	922838	353N		
IFT205	IF (455kHz)	922593	1918		
IFT206	RF Amp (27MHz)	922971	4938		
IFT207	Antenna Matching (27MHz)	933970	4910		
L101	RF Choke (22uH)	923170			
L103	AM Oscillator	922964	3090		
L201	RVI Trap (54MHz)	923192	6Z-105		
L202	Bandpass (27MHz)	923192	6Z-105		
L203	PI Filter (27MHz)	923192	6Z-105		
L204	Bandpass (27MHz)	923191	6Z-107		
L205	RF Choke (3.3uH)	913261			
L206	Driver (27MHz)	922944	4Z-1303		
L207	Predriver (27MHz)	922940	4Z-1511		
L401	RF Choke (4.7uH)	913346			
L402	RF Choke	913350	SL822J		
L404	RF Choke (1.5uH)	913351			
MF201	IF (455kHz)	923273	MFH-715		
ANT	AM Antenna				
OSC	AM Oscillator				
RF	AM RF				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
R500	Resistor Network		(1)	R501	Resistor Network		(1)

(1) Consists of seven 470 ohm resistors.

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.	
CH301	1.1A	.235	1mH	914023			
CH302	1.1A	.38	1mH				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	52	8	923235			

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	3A Quick Acting			AGC3	HRK	312003	150145

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	923274(1)										

(1) Alternate part #923394 MIC has Ch. LED, RF Gain, and Channel Selector.

J.I.L. MODEL 860CB

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CE401	Lamp	923107	Neon
CFS201	Filter	922517	455kHz (CFU-455G)
CFS401	Filter	923120	10.7MHz (KMFC-37-Z)
CFS402	Filter	923120	10.7MHz (KMFC-37-Z)
D104	LED	922878	XMT, GL-31AR (1.62V @ 30mA)
D208	LED	922953	Rec, MPLX GL30PG (1.89V @ 10mA)
D316	LED	922878	Program Indicator, GL-31AR (1.65V @ 19mA)
D317	LED	922878	Program Indicator, GL-31AR (1.65V @ 19mA)
D318	LED	922878	Program Indicator, GL-31AR (1.65V @ 19mA)
D319	LED	922878	Program Indicator, GL-31AR (1.65V @ 19mA)
D500	LED	922878	Channel Indicator
J3	Jack	923321	Microphone
J20	Jack	40010	CB Antenna Cord (Assembly)
J22	Jack	41894	DC Power
M1	Tuner	31291	FM, CHS-AT02
M2	Solenoid		Headshift
M100	Motor	911019	Tape Transport
M500	Head	917005	180 Ohm (Left/Right) Magnetic, Playback
PL1	Lamp	922679	Dial (4.57V @ 130mA)
PL2	Lamp	922679	Dial (4.57V @ 130mA)
S1	Switch		Power On/Off (Part of Volume Control)
S2	Switch	912050	AM/FM
S3	Switch	912050	DX/Local
S4	Switch	912050	Radio/CB
S5	Switch	912050	Standby
S6	Switch		XMT/Rec
S7	Switch	912043	Radio/Tape (Actuated by insertion of tape)
S8	Switch		Manual Program Selector (On/Volume)
S9	Switch		Automatic Program Change (Actuated by foil on tape)
S10	Switch		Program Indicator (Actuated by headshift solenoid)
S20	Switch		Channel Selector
X1	Crystal	923272	(9.785MHz)
X2	Crystal	923213	(10.240MHz)
	P.C. Board	30674	Assembly (CB)
	P.C. Board	30673	Assembly (PLL)
	P.C. Board	30676	Assembly (Power Amp)
	P.C. Board	30675	Assembly (Pre-Amp)

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

ITEM	PART No.	ITEM	PART No.
Case, Bottom	45046	Knob C, Inner	44717
Case, Front	45591	Knob G, Inner	45115
Case, Top	45045	Knob G, Output	45116/1122
Dial, Pointer	43974	Plate, Escutcheon	45042
Dial, Pointer (Hardware)	43973	Pushbutton w/plate	44936/45012
Escutcheon	45207	Rear Plate	45035
Knob, (Squelch Control)	44937	Side Plate (Left)	45039
Knob K, Outer	44683	Side Plate (Right)	45040

DIAL CORD STRINGING

