



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 CBR-2175

MANUFACTURER'S SPECIFICATIONS

■ AM/FM STEREO RADIO

Frequency Range: AM 535 ~ 1605 kHz
FM 88 ~ 108 MHz

Intermediate Frequency: AM 450 kHz
FM 10.7 MHz

Sensitivity: AM 26 dB/μV
FM 18 dB/μV for S/N 10 dB
28 dB/μV for S/N 30 dB
(at 0.5 W output, DC 13.8 V, 22.5 kHz Dev.)

Stereo Separation: 25 dB (at 400 Hz)

■ COMMON

Power Supply Voltage: DC 12 V (11 ~ 16 V), Negative ground

Power Consumption: RADIO: Approx. 8.3 W
(0.6 A at 0.5 W output, DC 13.8 V)

CB TRANSCEIVER: Approx. 11 W
(0.8 A at non-modulation, DC 13.8 V)

Power Output: Continuous: 2 x 3.5 W (at 10% THD)
Maximum: 2 x 4.0 W (Volume Control at max. and Tone Control at treble.)
(Conditions: 400 Hz input signal, 4 Ω load, 13.8 V DC)

Speaker Impedance: 4 ~ 8 Ω

Transistors: 38

ICs: 8

Dimensions*: Width: 7-3/8" (188 mm)
Height: 2-3/4" (70 mm)
Depth: 4-7/8" (124 mm)

Weight*: 4.5 lbs (2.05 kg)

■ CB RECEIVER

Channels: 40

Frequency Range: 26.965 ~ 27.405 MHz

Intermediate Frequency: 1st 10.595 MHz
2nd 455 kHz

Sensitivity: -6 dB/μV for S/N 10 dB
(at 0.5 W output, DC 13.8 V, 1,000 Hz, 30% Mod.)
5 kHz (at 6 dB down)

Selectivity: Adjacent Channel Rejection: 45 dB

Squelch Sensitivity: 3 dB/μV (threshold)

AGC: 60 dB

■ CB TRANSCEIVER

Channels: 40

Frequency Range: 26.965 ~ 27.405 MHz

Frequency Tolerance: +0.005%

RF Output Power: 4 W (maximum)

Modulation Capability: 80 ~ 100%

Spurious Suppression: -60 dB or more

Antenna Impedance: 50 Ω

* Weight and dimensions shown are approximate.

* Specifications subject to change without notice.

Courtesy of the Manufacturer

AUTOMATIC MODEL CBR-2175

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

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CB 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:

IFT801 thru IFT804, L903, L905, T801, T802, T902, T903,
T904, T906, T907, T908.....5009
C974.....5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP11.	Ch. 19, Delta Tune - Center		Check for 11.050MHz.
Input of DC meter to TP1.	Ch. 18	T906	Adjust for 3.20 volts.
Input of RF VTVM to TP2.	Ch. 19	T907, T908	Adjust for maximum.
Input of frequency counter to TP2.	Ch. 1	C974	Adjust for 16.370MHz. Repeat for all channels. (Channel frequency - 10.595MHz = frequency on counter)
Input of frequency counter to TP 12.	Ch. 19, Xmit		Check for 10.595MHz.

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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP13. 455kHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune - Center	IFT804, IFT803	Adjust for maximum output.
Output of signal generator thru .01uF to TP14. 10.595MHz, 1000Hz @ 30% modulation.	Ch. 19	IFT802, IFT801	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T802, T801	Adjust for maximum output. Repeat above steps, if necessary.

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	T904, T903, T902, L905, L903	Adjust for maximum.

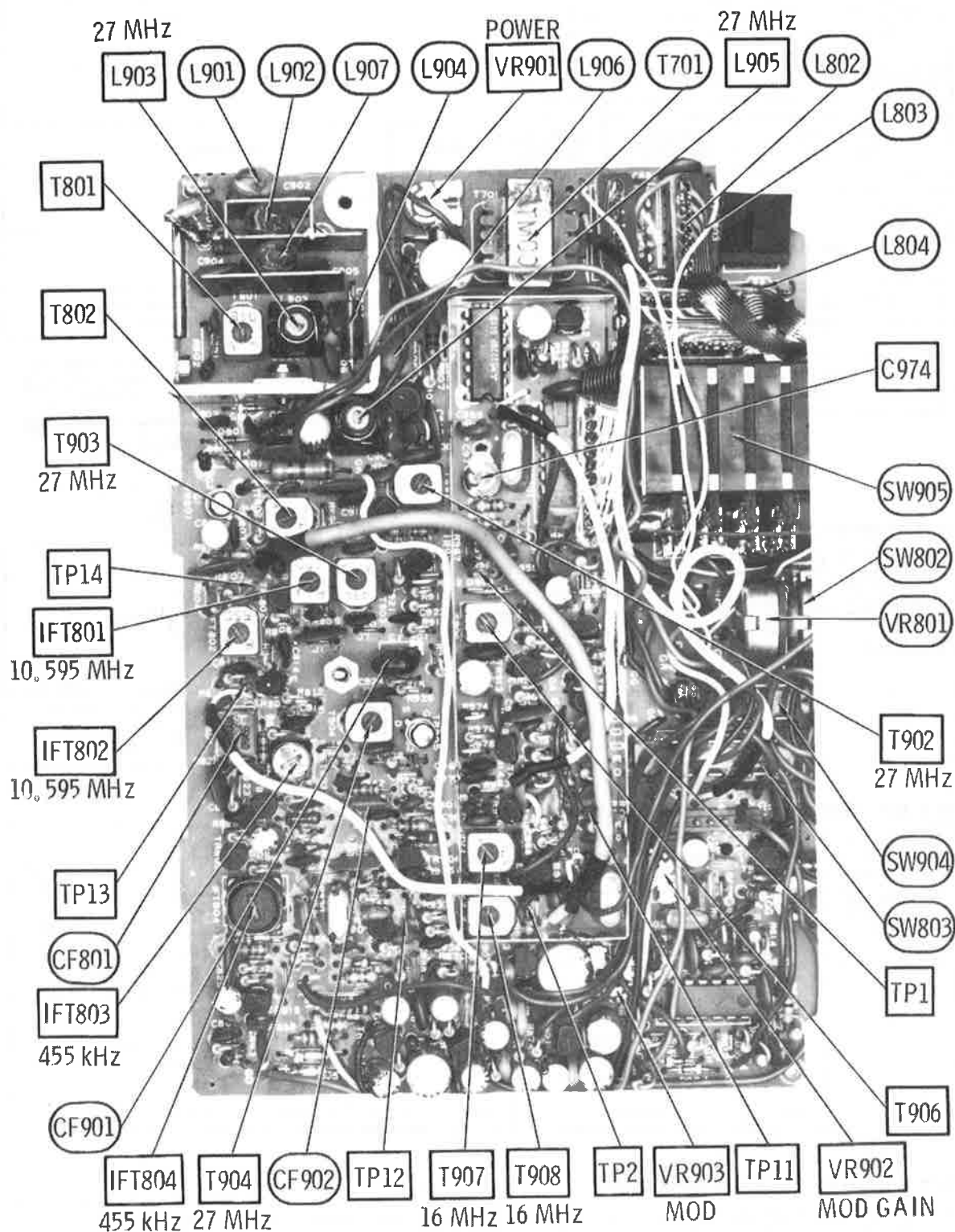
TRANSMITTER ADJUSTMENTS

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 adjustments of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	VR901	Adjust for 3.8 watts.
Modulation meter to antenna jack. Inject a 70mV 1000Hz signal at MIC input.	Ch. 19	VR903	Adjust for maximum modulation.
		VR902	Adjust for 90% modulation.



CB MAIN BOARD

AM-FM 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:
IFT51, IFT151, IFT152, T151, T152,
IFT101, IFT102, L104.....5009
C55, C63, C73, C102, C108, C114.....5000

GC ELECTRONICS:

PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

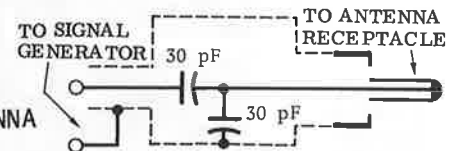
AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to TP10.	450kHz 400-Hz mod.	High freq end stop	IFT102, IFT101	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	C114, C108, C102	"
Thru dummy antenna to antenna input.	600kHz 400Hz Mod	600kHz	L104	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 C102 for maximum output. Antenna adjustment is located in front panel lower right side of dial.

DUMMY ANTENNA



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

High side of generator thru .001uF to TP10.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to TP15.	(1) IFT151, IFT51	Adjust for maximum.
"	"	DC probe of VTVM to A.	IFT152	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

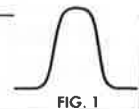


FIG. 1

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

High side of generator thru .001uF to TP10.

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 TP15.	(1) IFT151, IFT51	Disconnect stabilizing capacitor C160. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C160.
"	"	Vert input of scope to A.	IFT152	Adjust IFT152 for maximum amplitude and straightness of line, similar to Fig. 2.

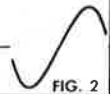


FIG. 2

(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
108MHz Unmodulated	108MHz	DC probe of VTVM to TP15.	C73, C63, C55	Adjust for maximum.

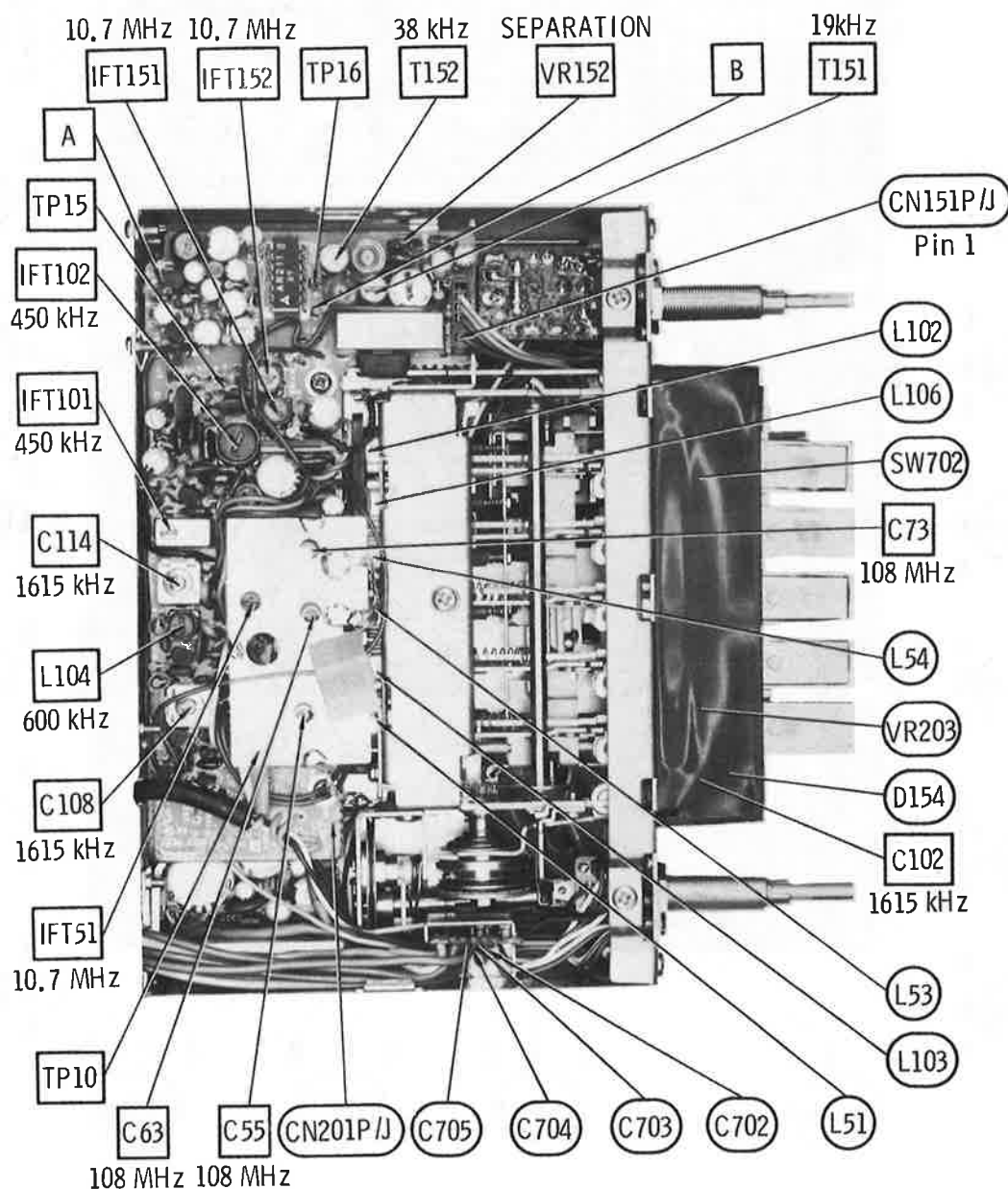
FM STEREO ALIGNMENT USING AUDIO GENERATOR

High side of generator to A. Tune receiver off station.

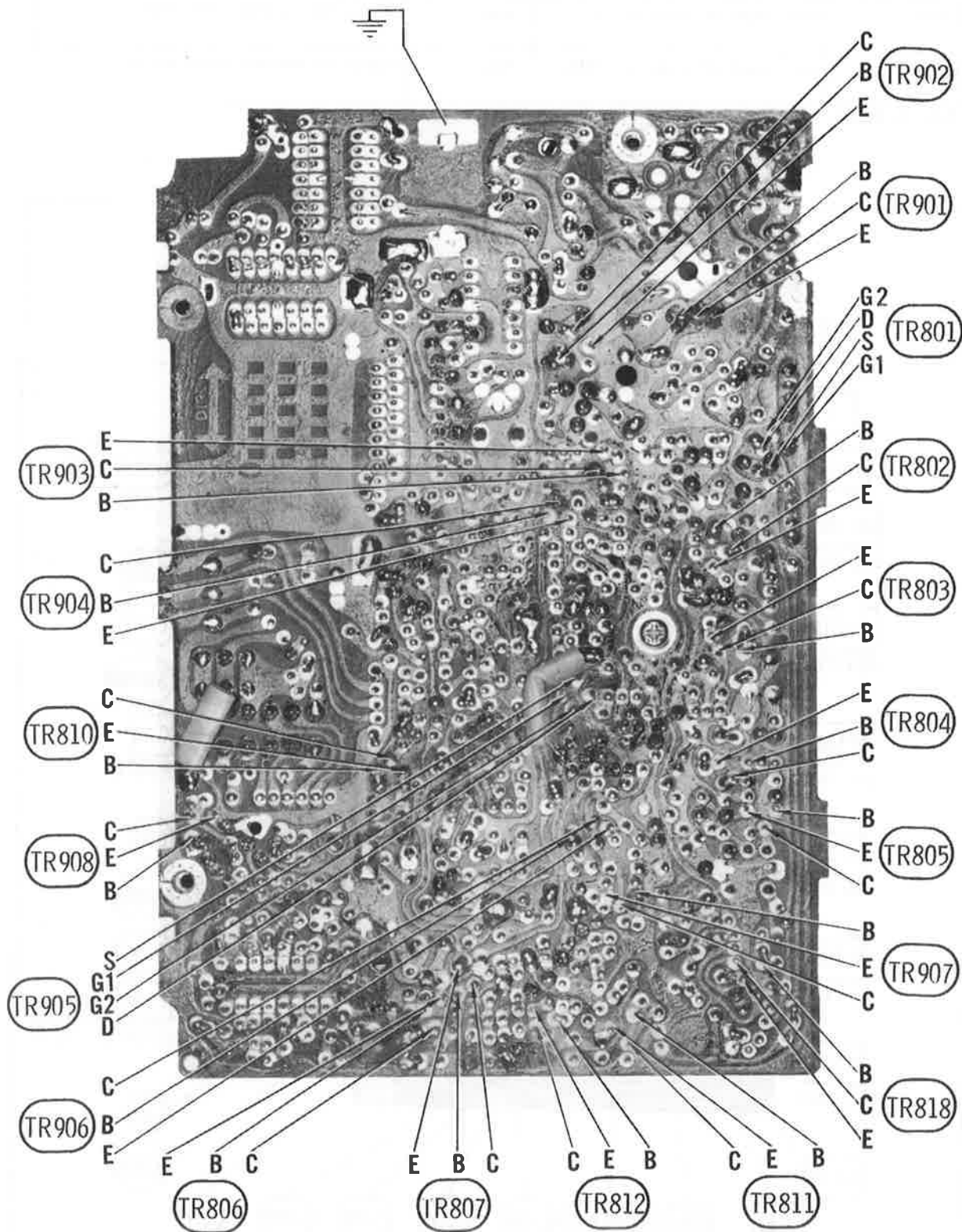
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Vert input of scope to B.	T151	Adjust for maximum 19kHz response.
19kHz	Vert input of scope to TP16.	T152	Adjust for maximum 38kHz response.

Tune to Stereo station, adjust VR152 for best separation.

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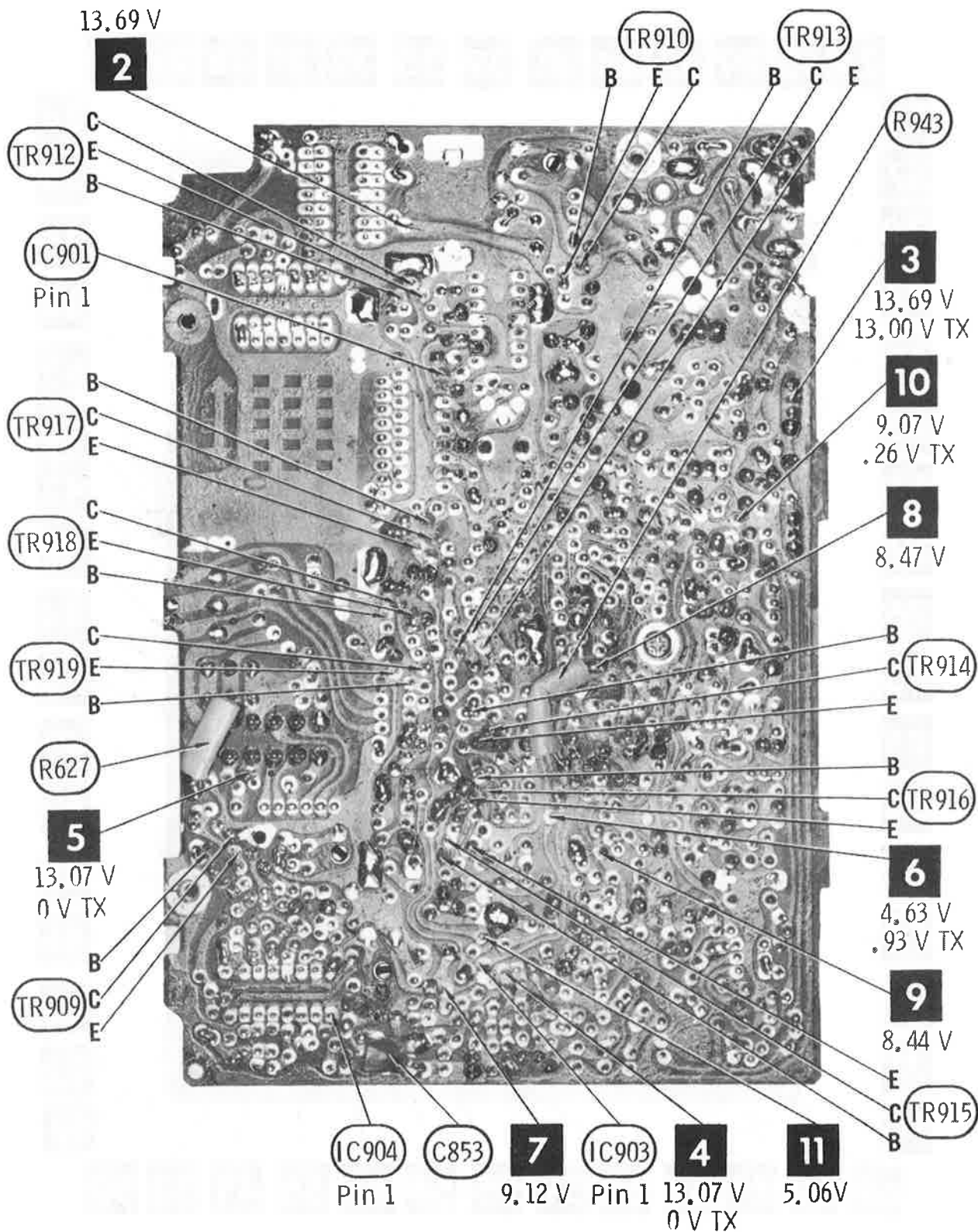


CHASSIS-BOTTOM

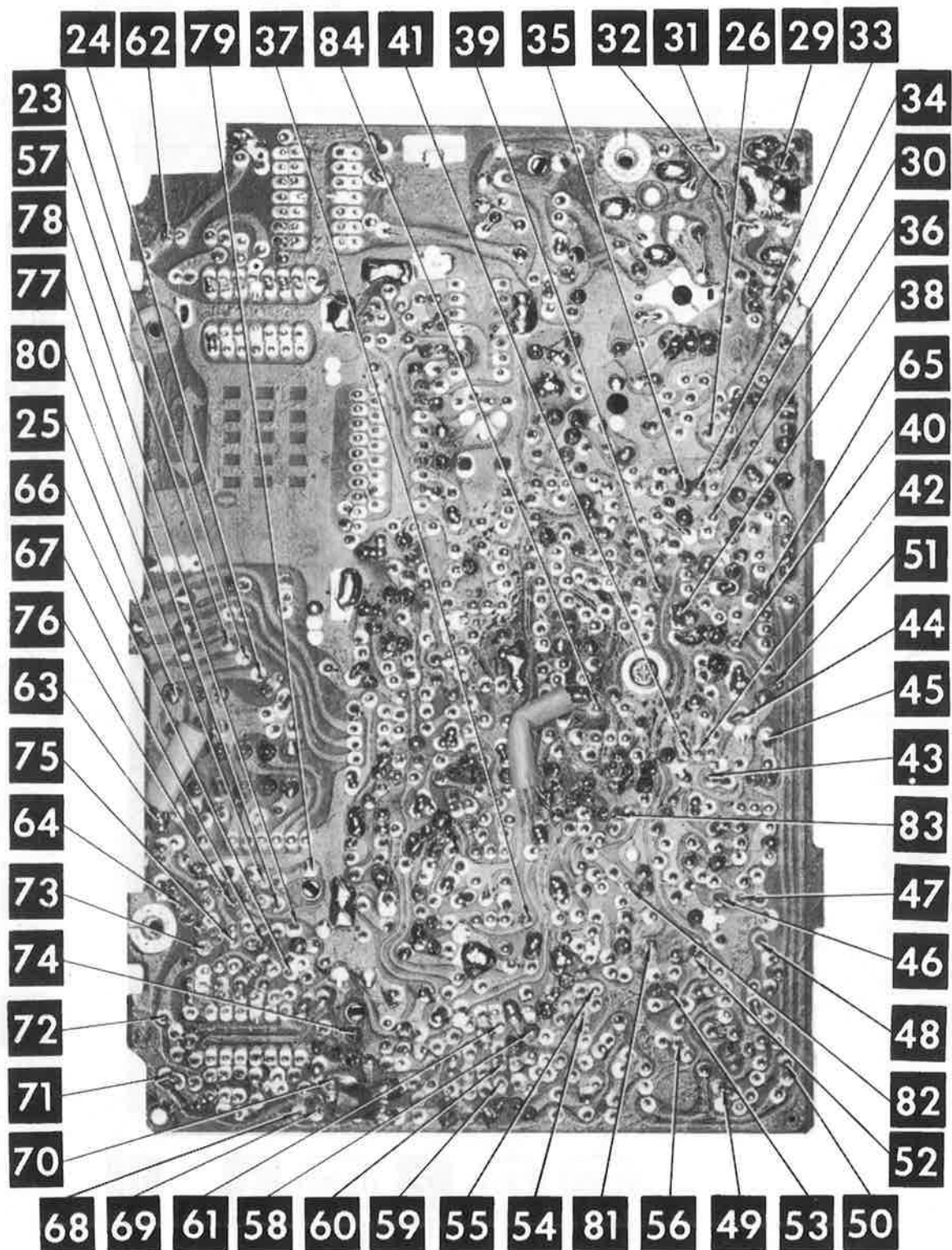


CB MAIN BOARD

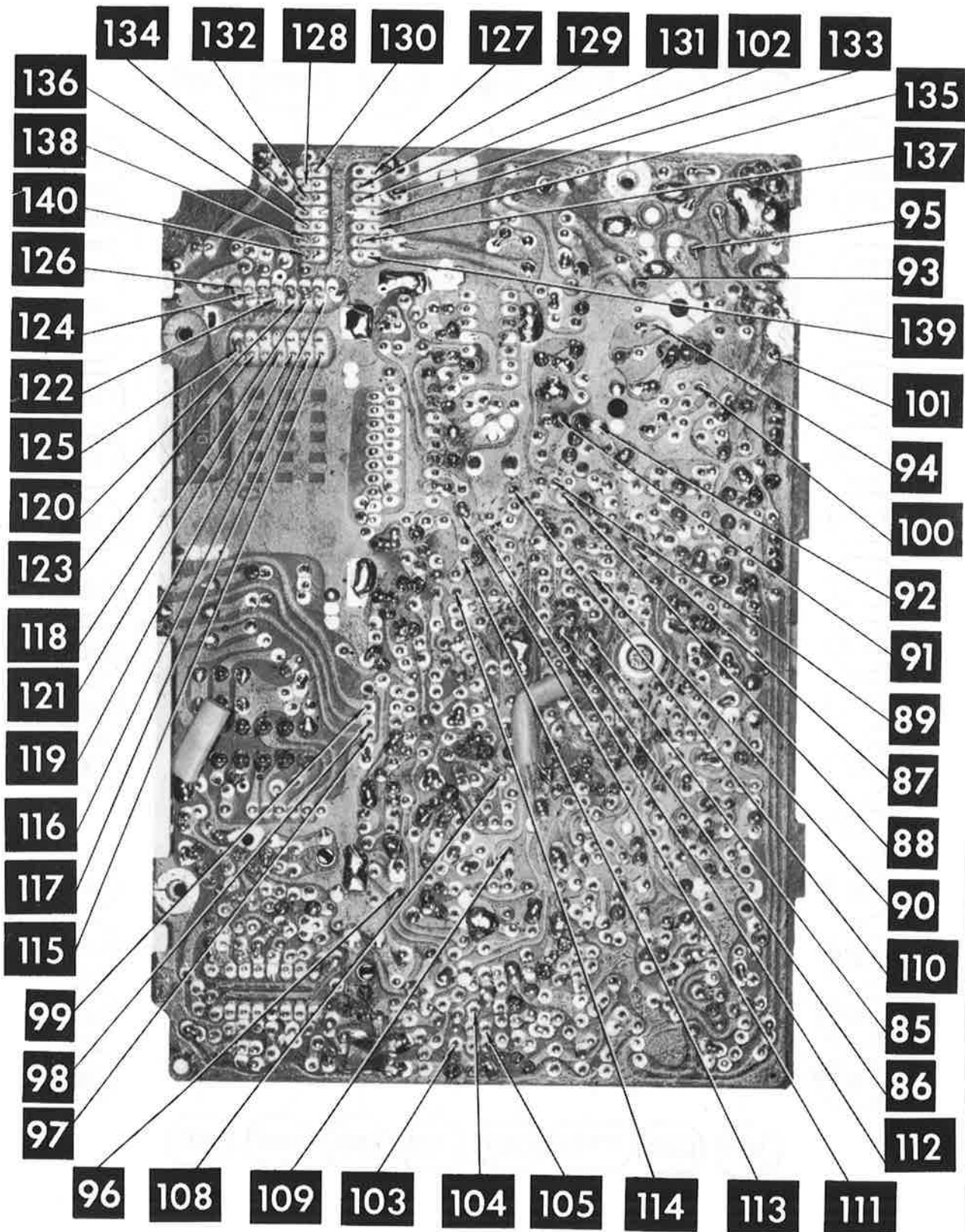
AUTOMATIC MODEL CBR-2175



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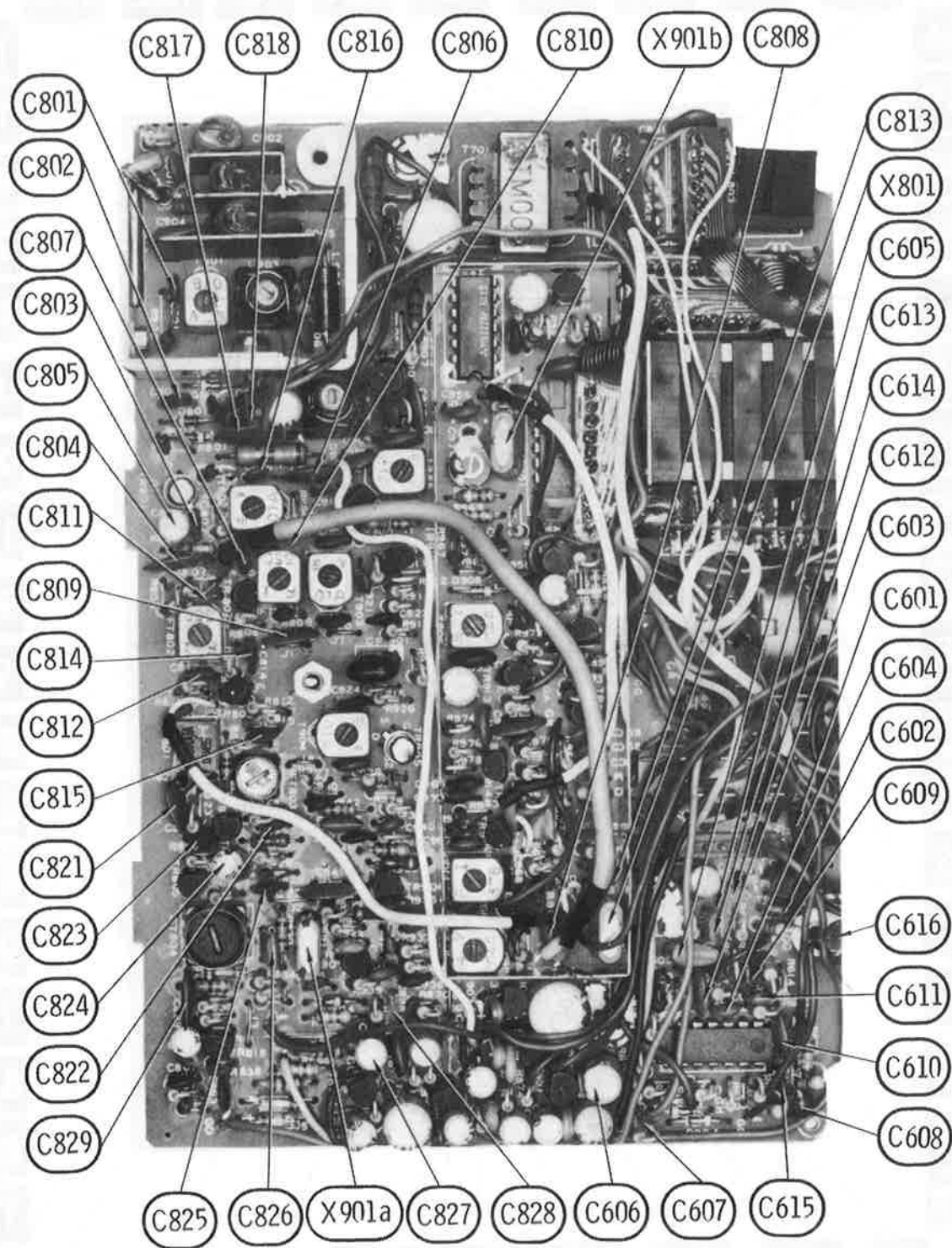


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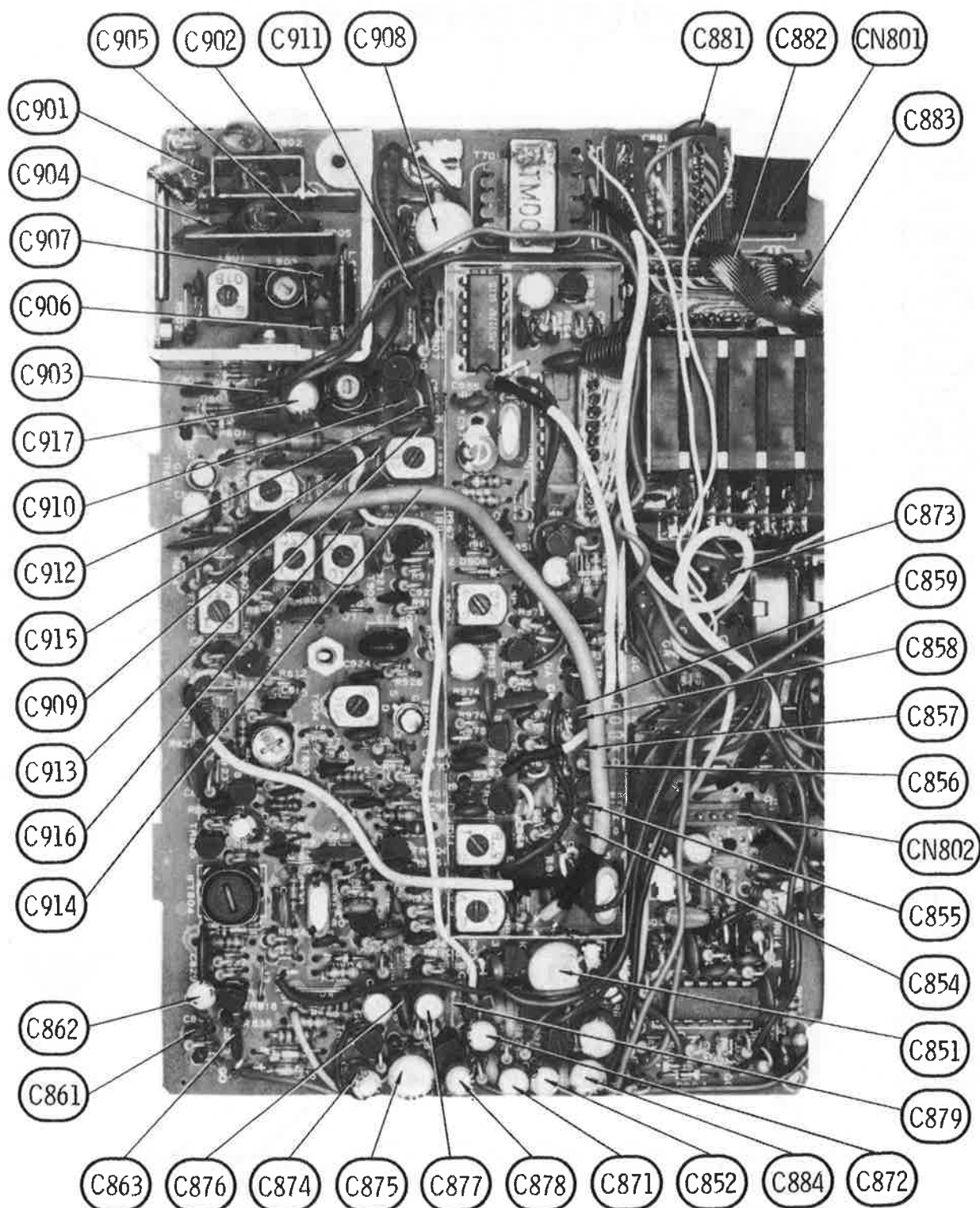


AUTOMATIC MODEL CBR-2175

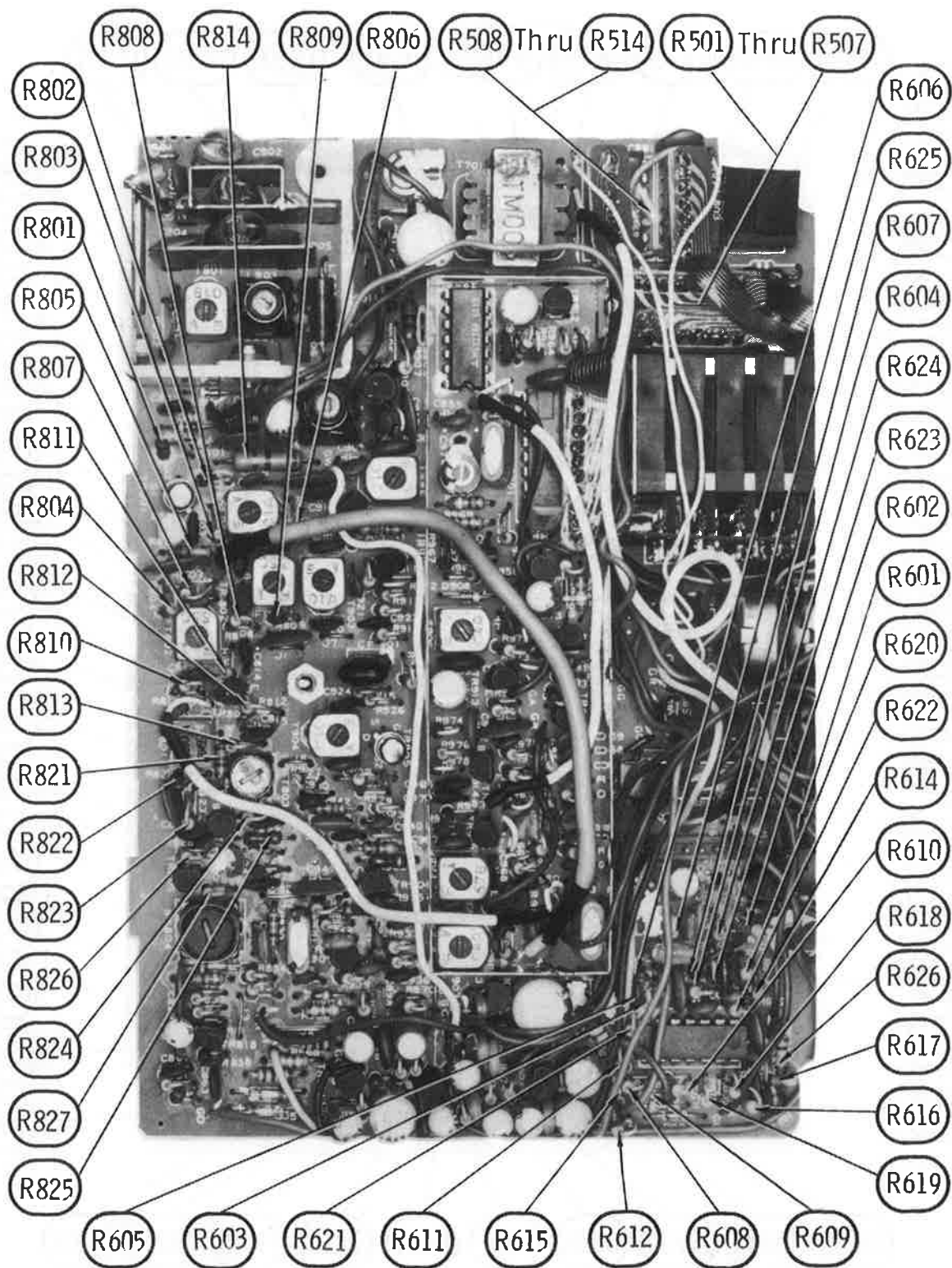
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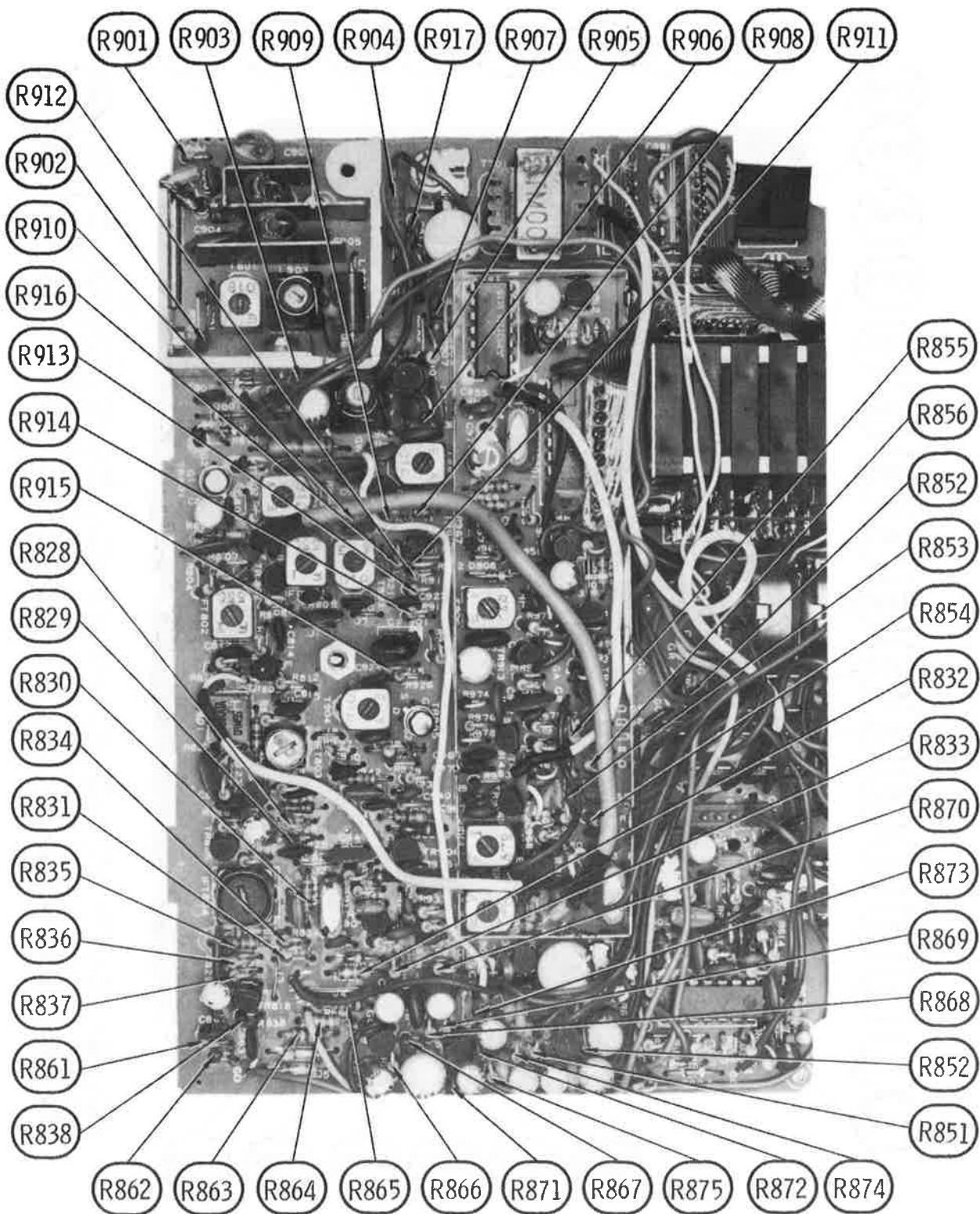
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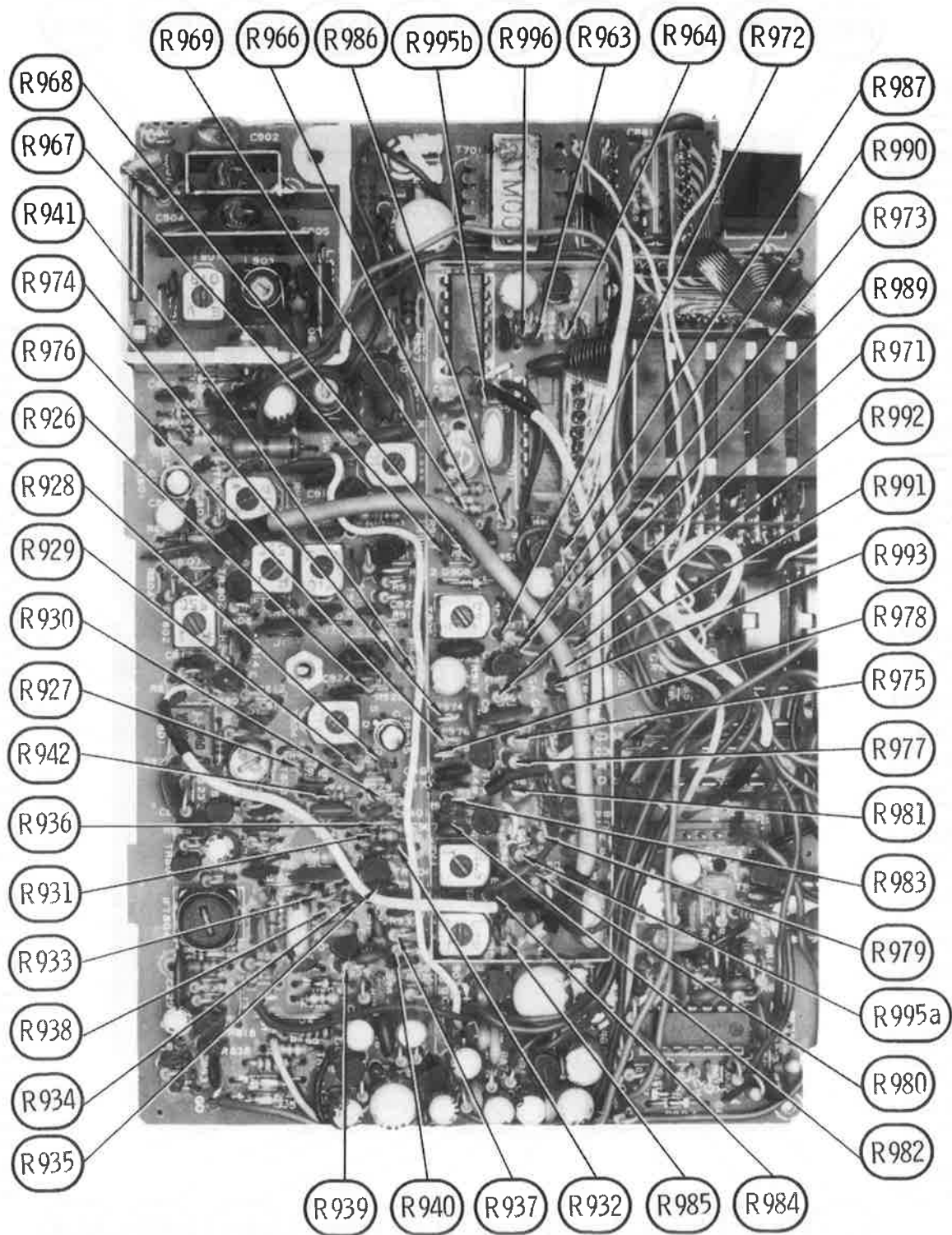
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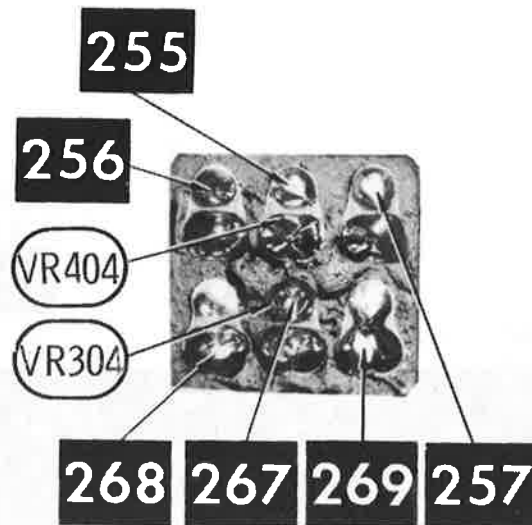
CB MAIN BOARD



CB MAIN BOARD

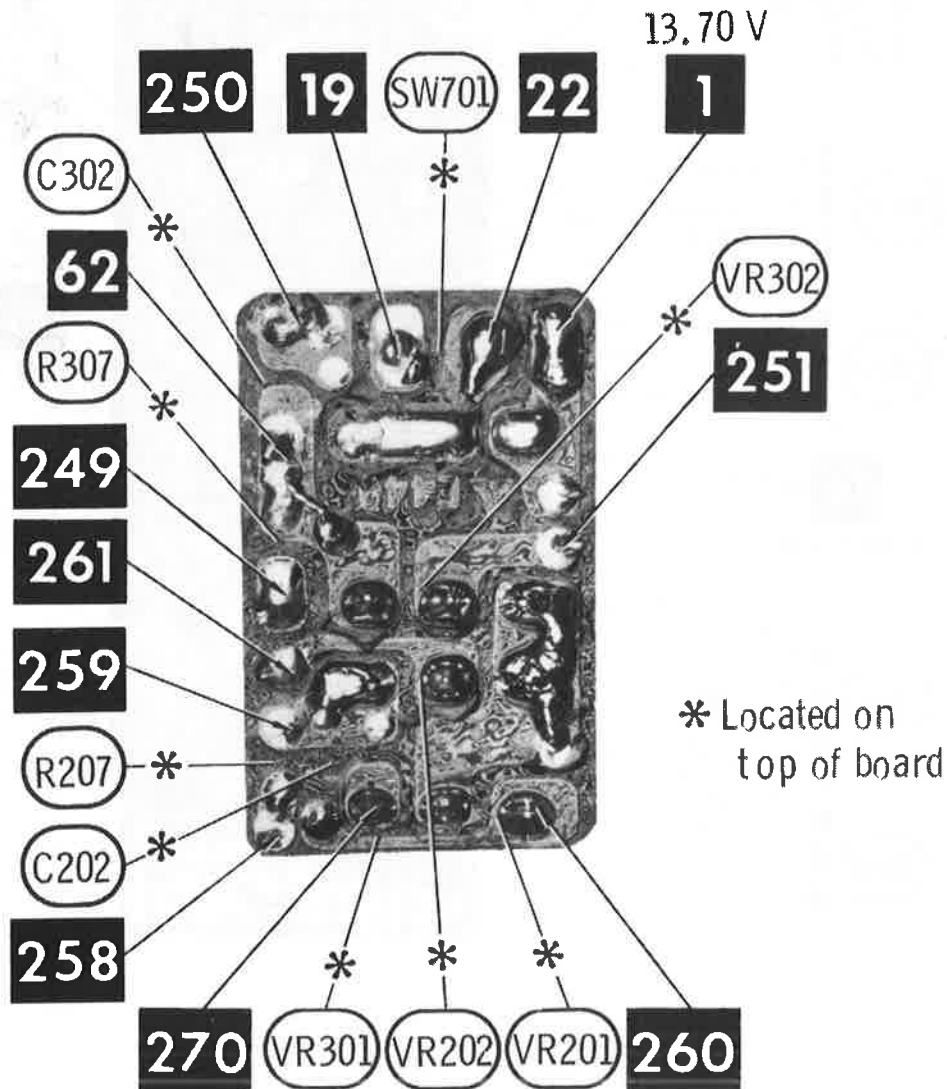


CB MAIN BOARD



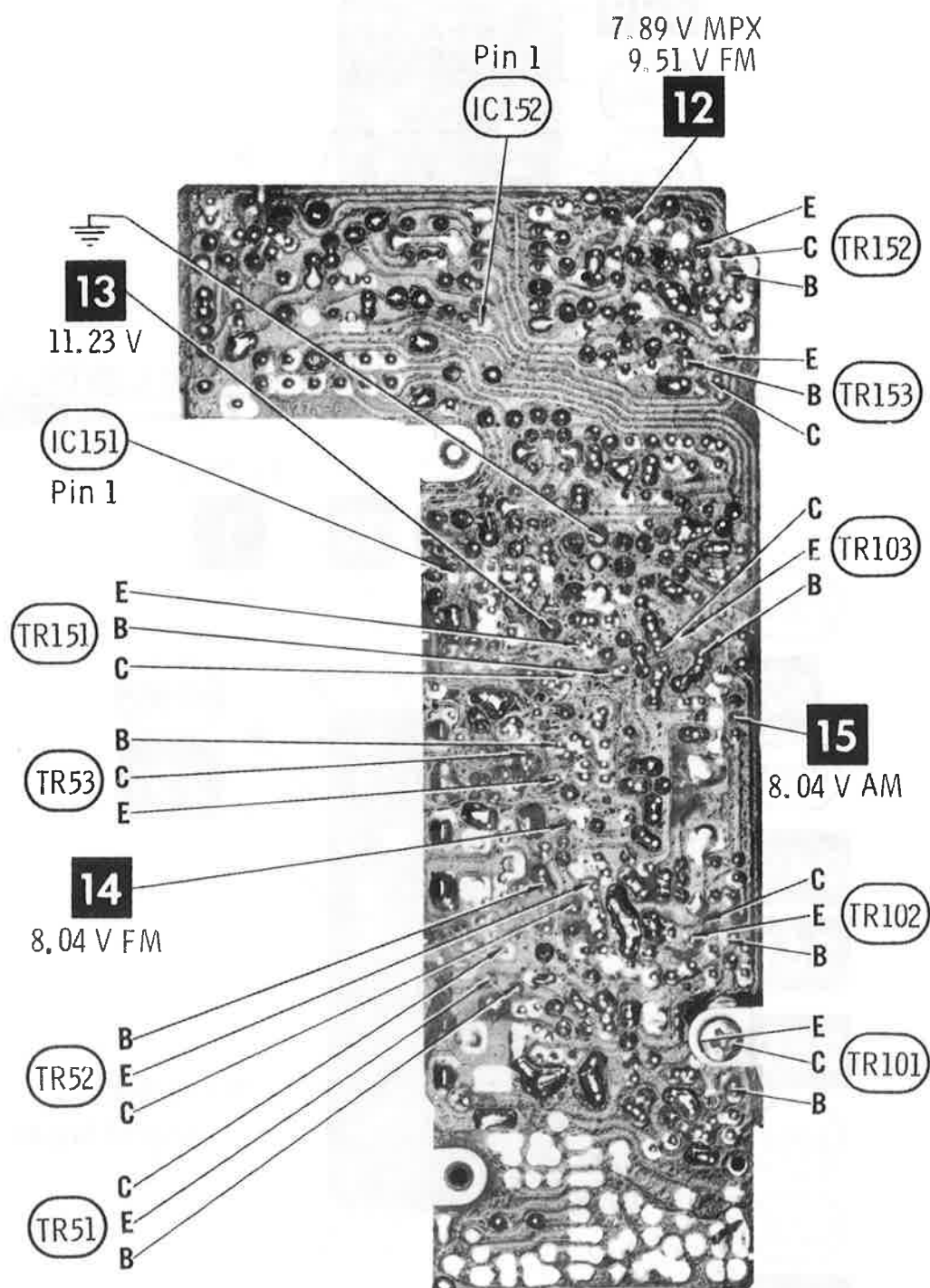
FADER CONTROL BOARD

A Howard W. Sams **CIRCUITRACE** Photo

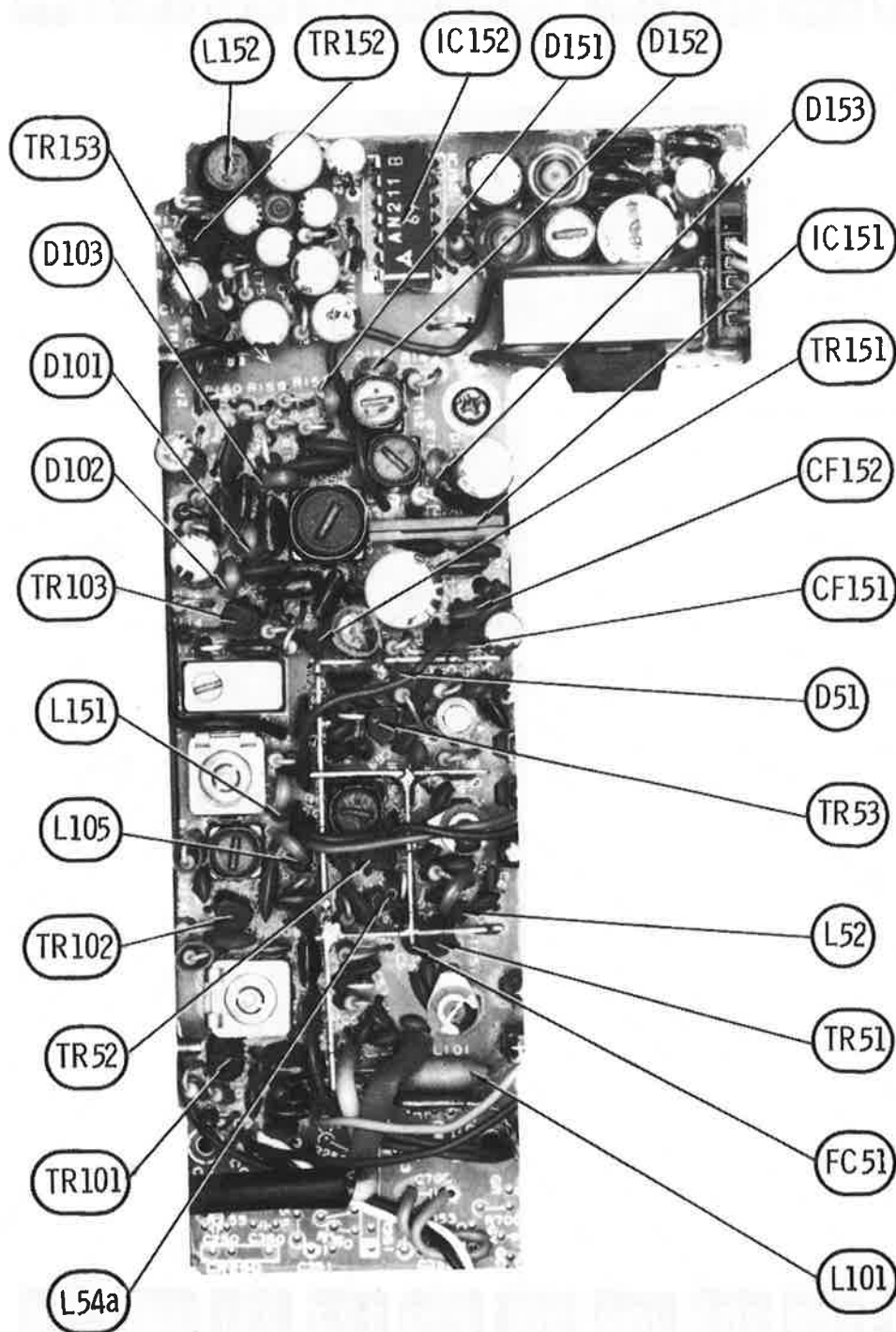


CONTROL BOARD

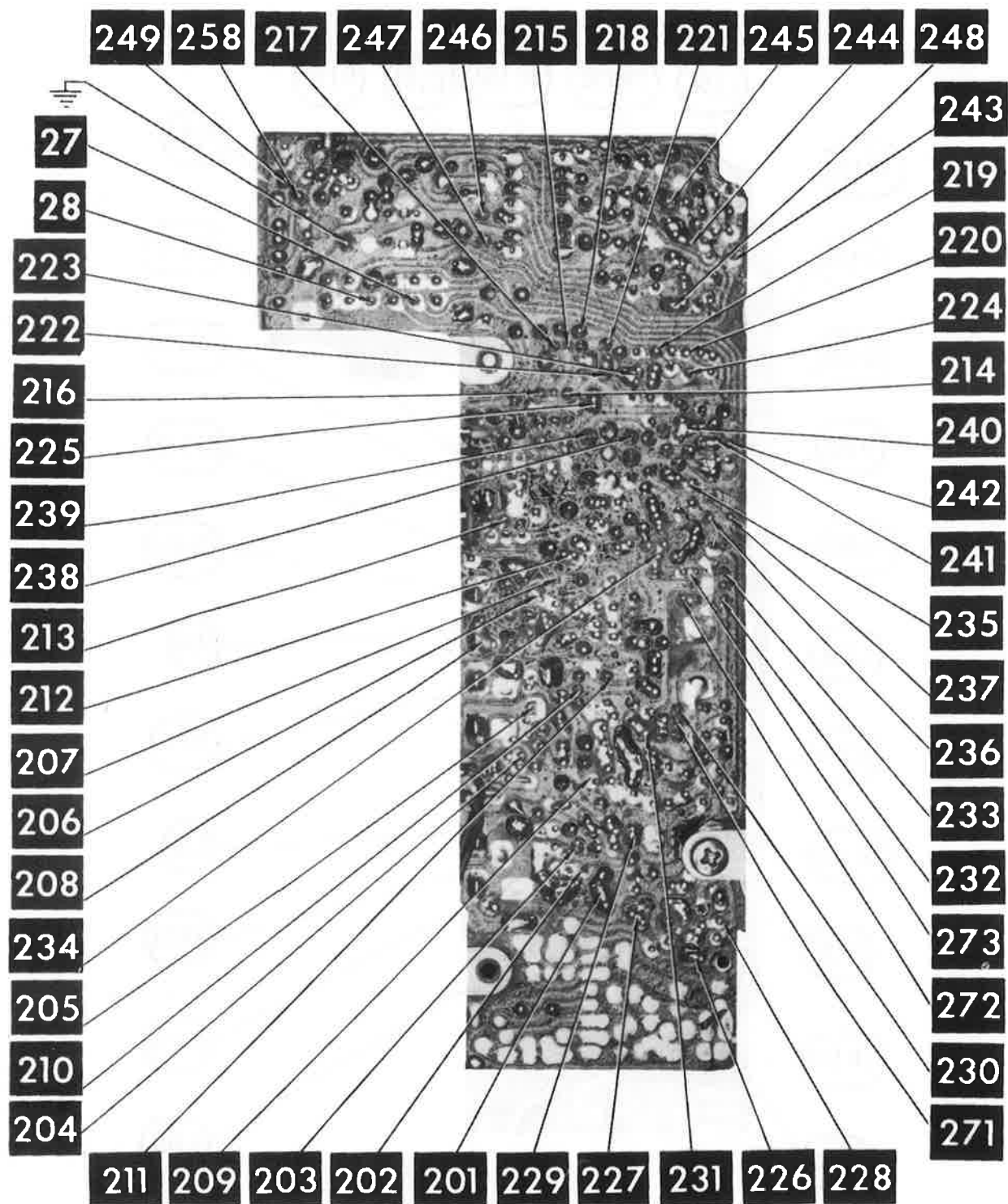
AUTOMATIC MODEL CBR-2175



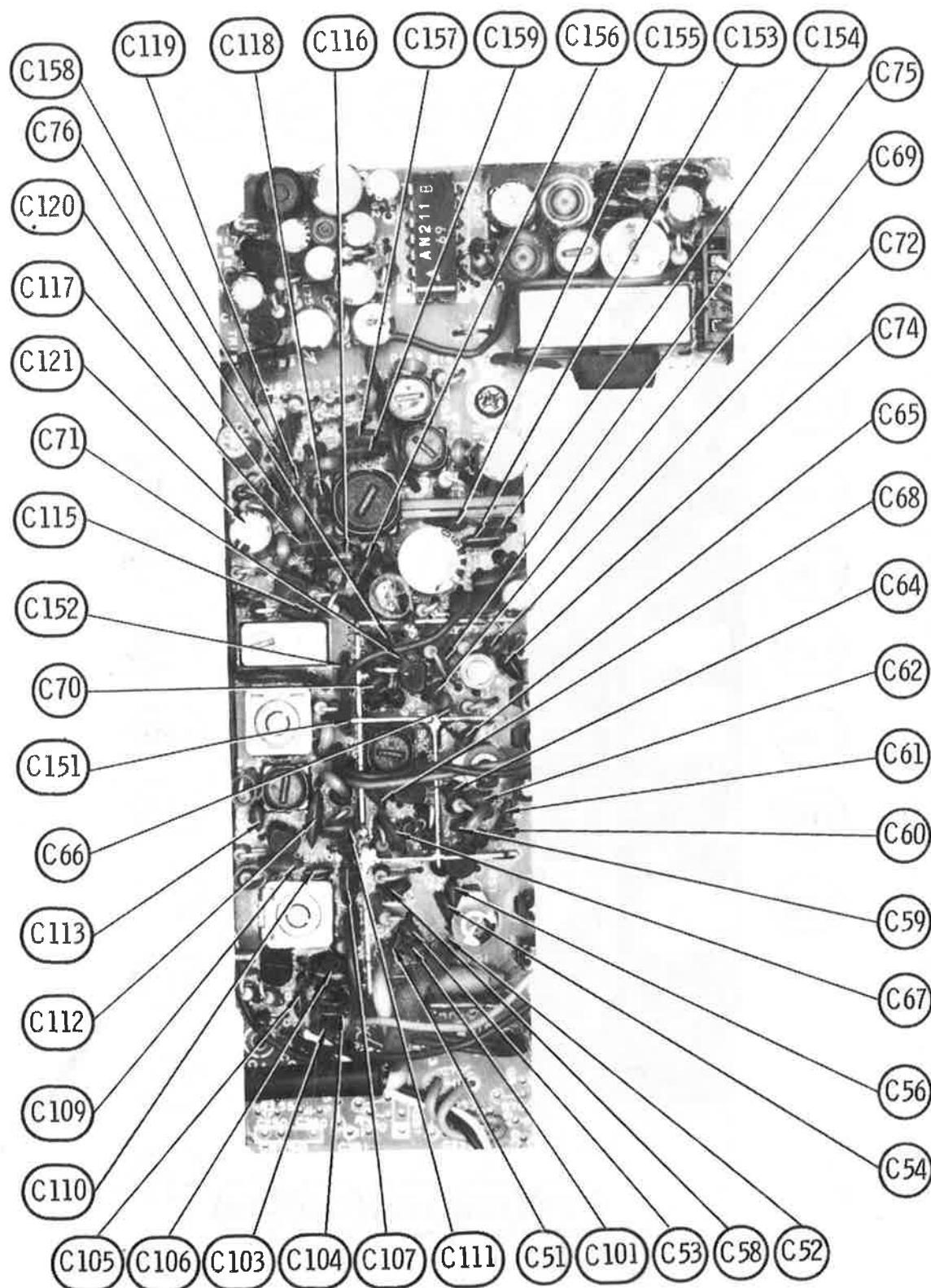
AM-FM-MPX BOARD



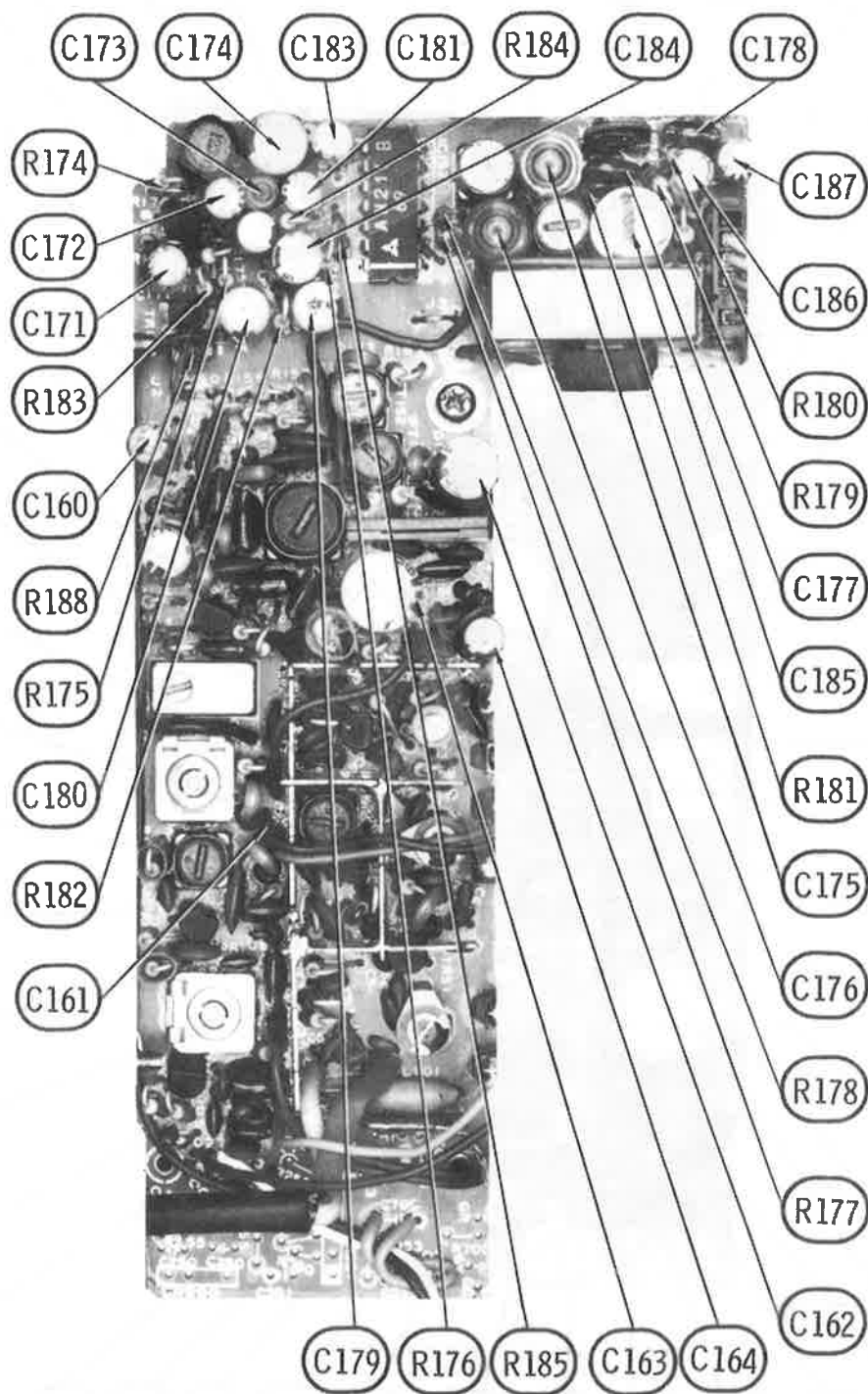
AM-FM-MPX BOARD



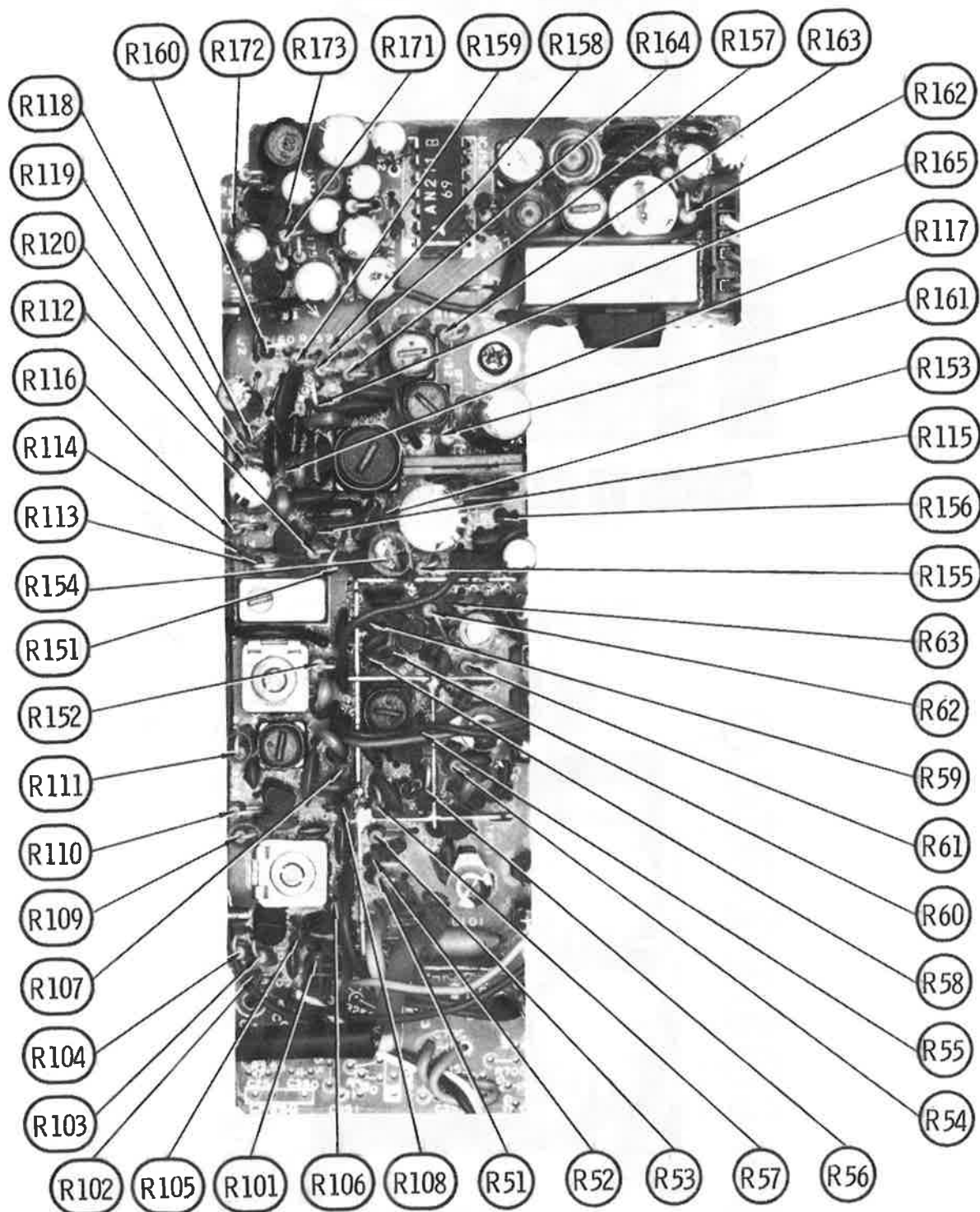
AM-FM-MPX BOARD



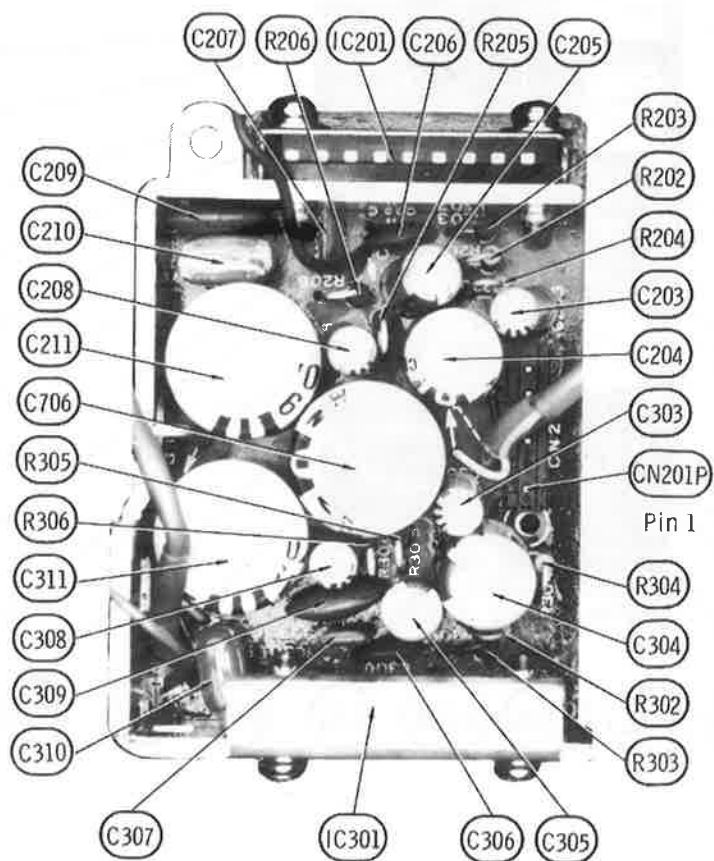
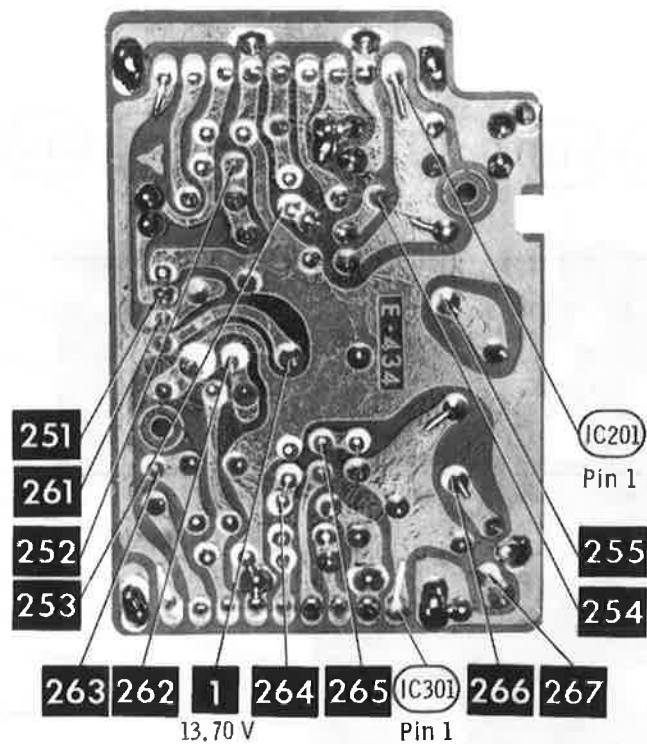
AM-FM-MPX BOARD



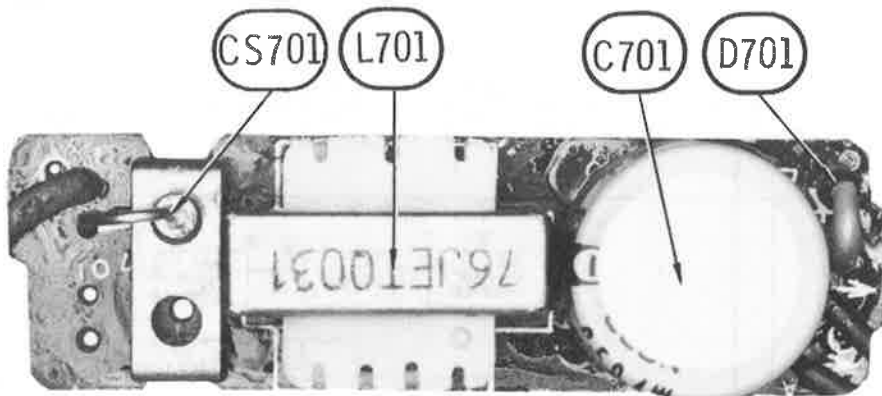
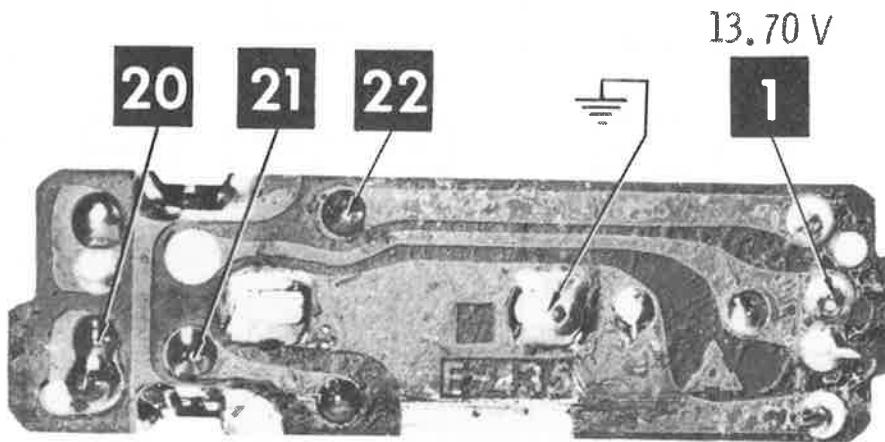
AM-FM-MPX BOARD



AM-FM-MPX BOARD

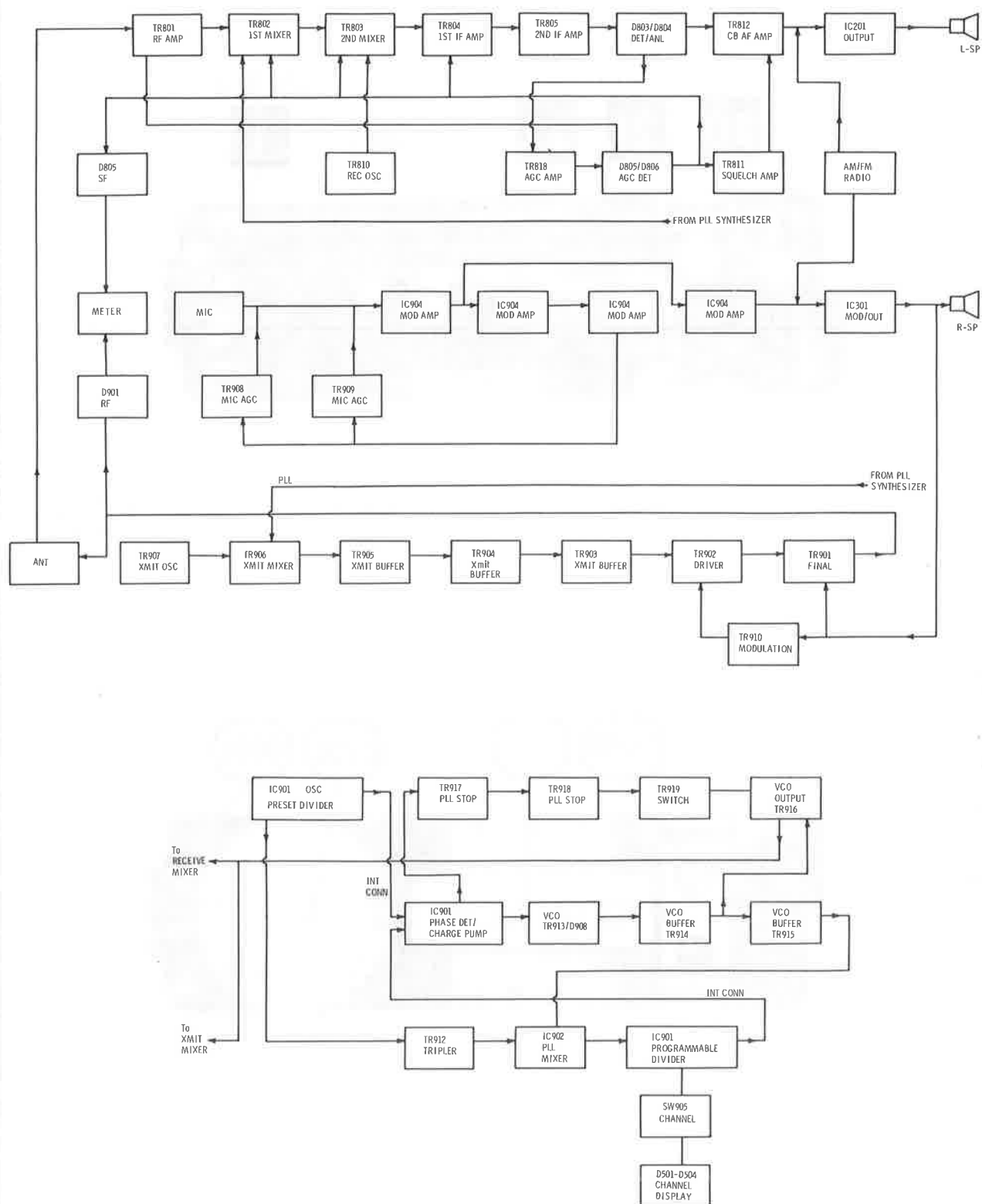


AUDIO OUTPUT BOARD



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POWER SUPPLY BOARD

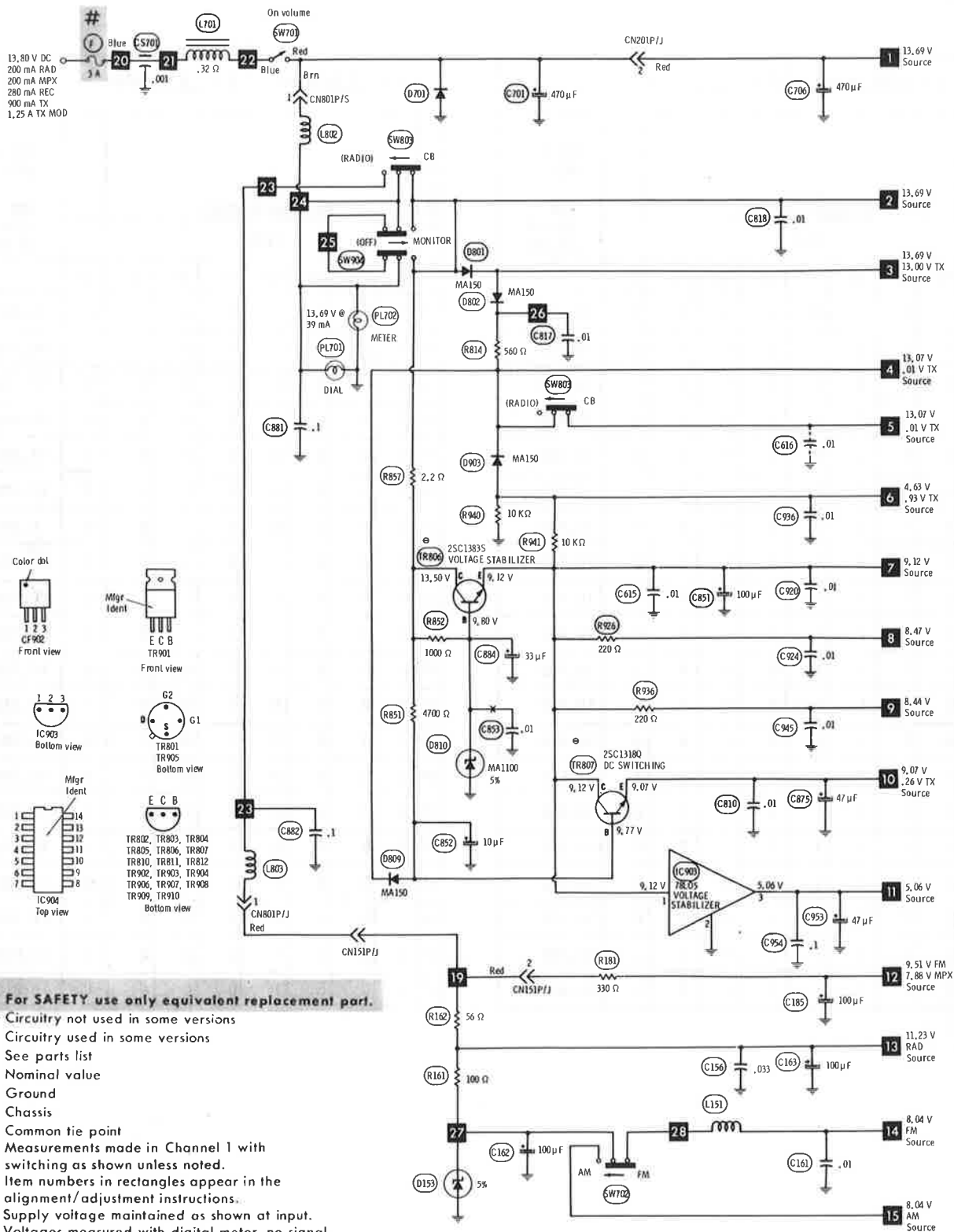


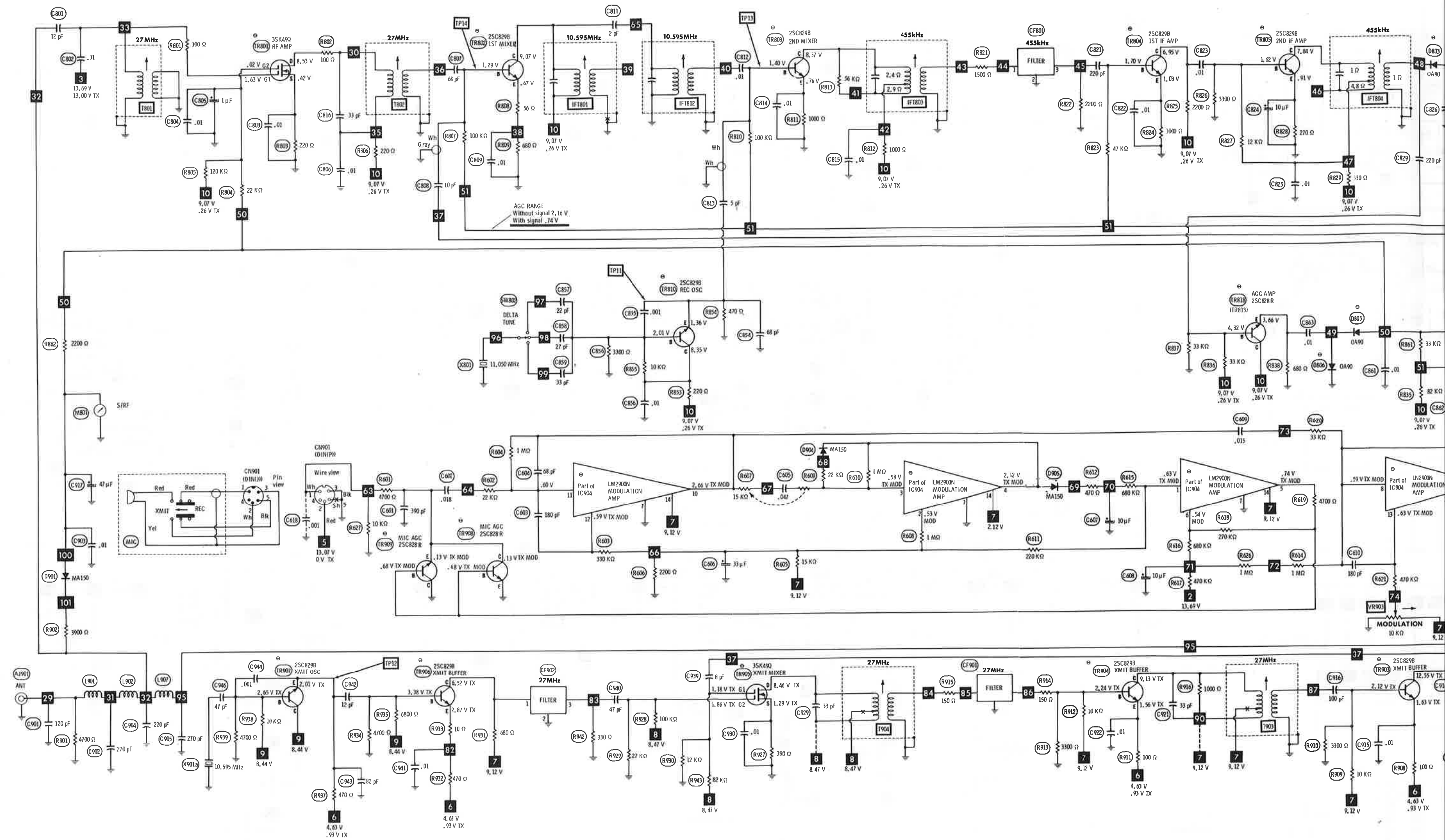
TRUTH CHART

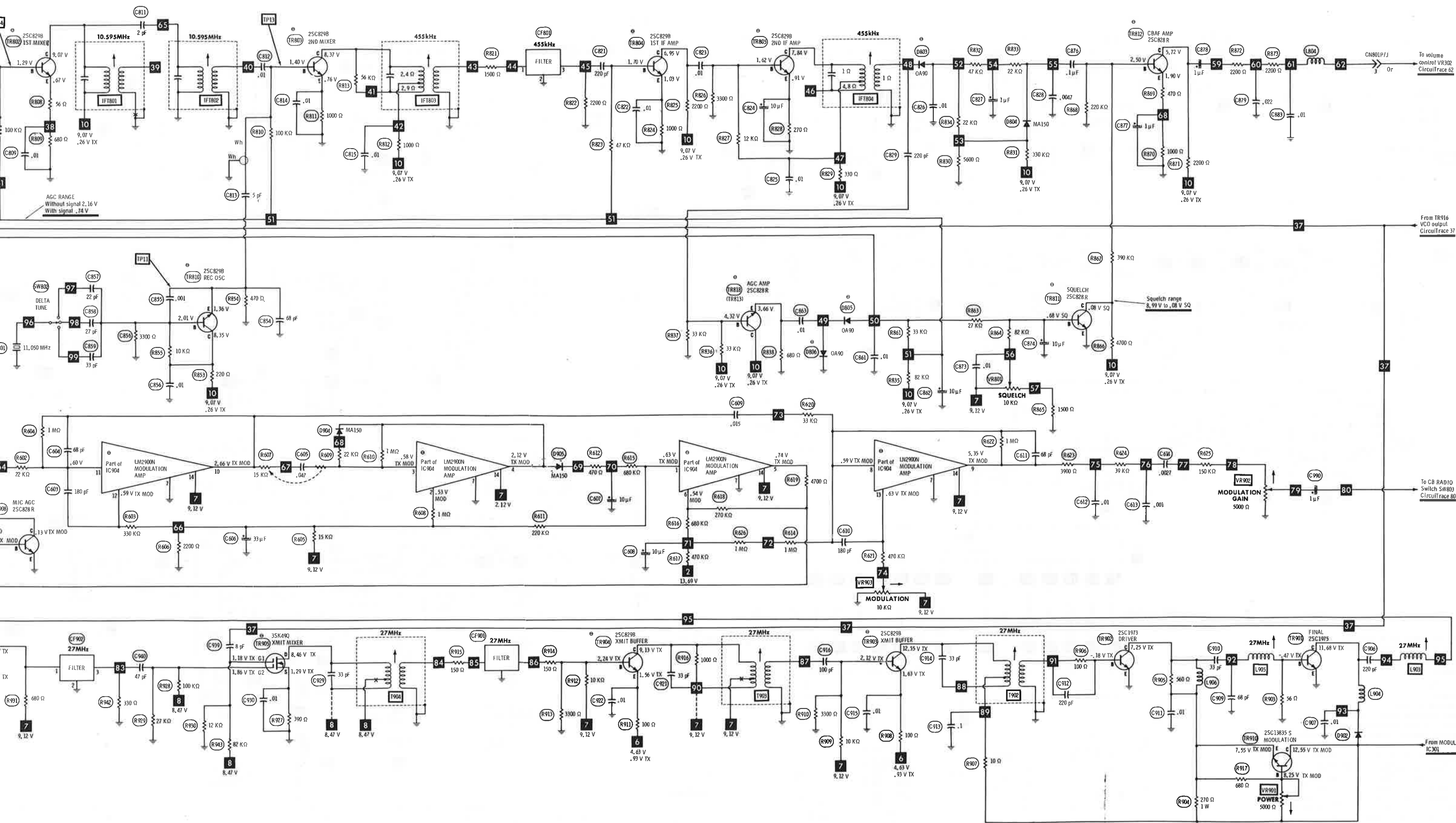
1 = <u>5.06</u> Volts 0 = <u>0</u> Volts									
C H A N N E L	IC901 PROGRAM DIVIDER								REC & XMIT VCO OUTPUT IN MHz AT TP2
	PINS								
	10	11	12	13	14	15	16	17	
1	0	1	1	0	0	1	0	1	16.370
2	0	1	1	0	0	1	1	0	16.380
3	0	1	1	0	0	1	1	1	16.390
4	0	1	1	0	1	0	0	1	16.410
5	0	1	1	0	1	0	1	0	16.420
6	0	1	1	0	1	0	1	1	16.430
7	0	1	1	0	1	1	0	0	16.440
8	0	1	1	0	1	1	1	0	16.460
9	0	1	1	0	1	1	1	1	16.470
10	0	1	1	1	0	0	0	0	16.480
11	0	1	1	1	0	0	0	1	16.490
12	0	1	1	1	0	0	1	1	16.510
13	0	1	1	1	0	1	0	0	16.520
14	0	1	1	1	0	1	0	1	16.530
15	0	1	1	1	0	1	1	0	16.540
16	0	1	1	1	1	0	0	0	16.560
17	0	1	1	1	1	0	0	1	16.570
18	0	1	1	1	1	0	1	0	16.580
19	0	1	1	1	1	0	1	1	16.590
20	0	1	1	1	1	1	0	1	16.610

1 = <u>5.06</u> Volts 0 = <u>0</u> Volts									
C H A N N E L	IC901 PROGRAM DIVIDER								REC & XMIT VCO OUTPUT IN MHZ AT TP2
	PINS								
	10	11	12	13	14	15	16	17	
21	0	1	1	1	1	1	1	0	16.620
22	0	1	1	1	1	1	1	1	16.630
23	1	0	0	0	0	0	1	0	16.660
24	1	0	0	0	0	0	0	0	16.640
25	1	0	0	0	0	0	0	1	16.650
26	1	0	0	0	0	0	1	1	16.670
27	1	0	0	0	0	1	0	0	16.680
28	1	0	0	0	0	1	0	1	16.690
29	1	0	0	0	0	1	1	0	16.700
30	1	0	0	0	0	1	1	1	16.710
31	1	0	0	0	1	0	0	0	16.720
32	1	0	0	0	1	0	0	1	16.730
33	1	0	0	0	1	0	1	0	16.740
34	1	0	0	0	1	0	1	1	16.750
35	1	0	0	0	1	1	0	0	16.760
36	1	0	0	0	1	1	0	1	16.770
37	1	0	0	0	1	1	1	0	16.780
38	1	0	0	0	1	1	1	1	16.790
39	1	0	0	1	0	0	0	0	16.800
40	1	0	0	1	0	0	0	1	16.810

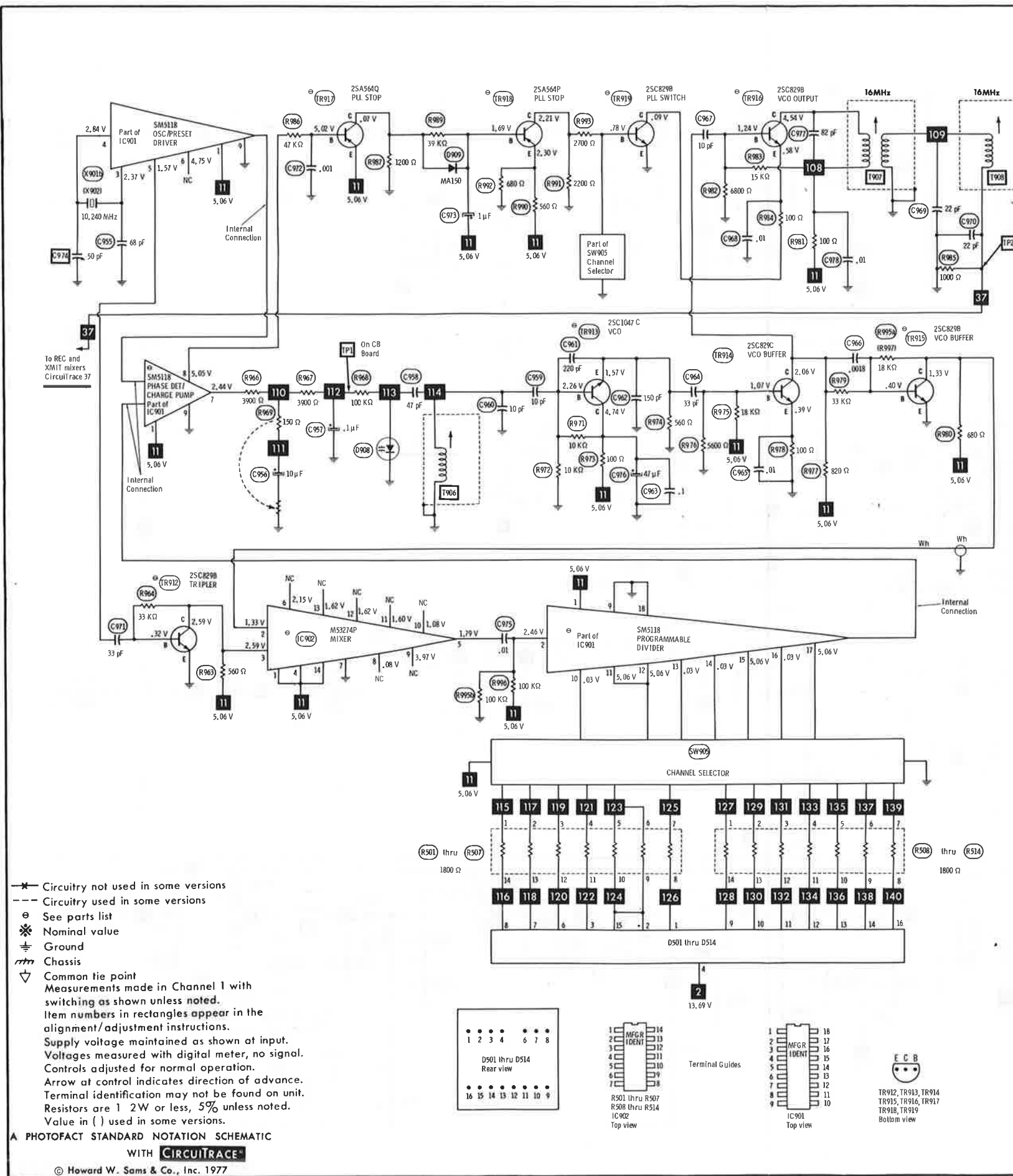
AUTOMATIC MODEL CBR-2175

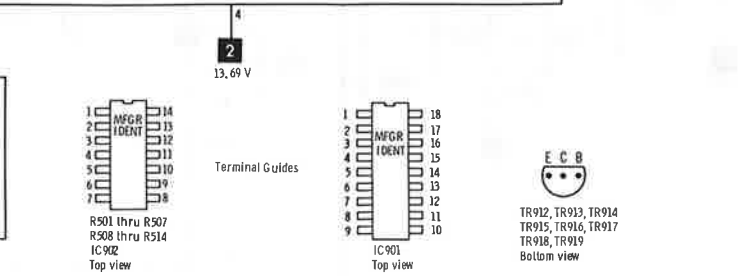






AUTOMATIC MODEL CBR-2175





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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D51		YEAD029	GE-90			HEPR2503			RT-262	ECG614
D101	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D102	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D151		YEAD032	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D152		YEAD032	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D153		YEAD024	GEZD-8.2		ZB8.2B		RE 112		RT-257	ECG5072A
D701		YEAD030	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D801	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D802	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D803	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
		YEAD032(1)	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D804	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D805	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
		YEAD032(1)	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D806	OA90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
		YEAD032(1)	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D807	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D808	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D809	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D810	MA1100		GEZD-10		ZB10B		RE 115	SK3061	RT-241	ECG140A
D901	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D902		YEAD030	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D903	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D904	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D905	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D908		YEAD1SV53	GE-90			HEPR2503			RT-262	ECG614
D909	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC151	UPC577N	YEAMUPC577H	GEIC-140	WEP939			RE 341-M			ECG1082
IC152	AN211B		GEIC-48							ECG1056
IC201	AN214Q		GEIC-49	WEP937	PTC757		RE 388-IC		TVCN-74	ECG1058
	AN214PR	(1)	GEIC-49	WEP937	PTC757		RE 388-IC		TVCN-74	ECG1058
IC301	AN214Q		GEIC-49	WEP937	PTC757		RE 388-IC		TVCN-74	ECG1058
	AN214PR	(1)	GEIC-49	WEP937	PTC757		RE 388-IC		TVCN-74	ECG1058
IC901	SM5118	YEAMSM5118								
IC902	M53274P	YEAM53274P		WEP7474						ECG7474
IC903	78L05	YEAMN78L05								ECG977
IC904	LM2900N	YEAML2900N					RE 387-IC			
TR51	2SC1047B		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047BCD	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
TR52	2SC1047B		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047BCD	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
TR53	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR101	2SC2076C		GE-210 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A
	2SC2076BC	(1)	GE-210 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A
	2SC2076	(1)	GE-210 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A
TR102	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR103	2SC829C		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR151	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR152	2SC828R		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
TR153	2SA564P		GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564PQR	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
TR801	3SK49Q		GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK49	(1)	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR802	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR803	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR804	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR805	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR806	2SC1383S		GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293
	2WC1383	(1)	GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293
TR807	2SC1318Q		GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318PQR	(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318	(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
TR810	2SC829B		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR811	2SC828R		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
TR812	2SC828R		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199

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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
TR818	2SC828R	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
TR901	2SC1975	(12)	GE-338	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
TR902	2SC1973	(13)	GE-335	WEP922				SK3250		ECG315
TR903	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR904	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR905	3SK49Q	(1)	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK49	(1)	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR906	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR907	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR908	2SC828R	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
TR909	2SC828R	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828RST	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
TR910	2SC1383S	(1)	GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293
	2SC1383	(1)	GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293
TR912	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR913	2SC1047C	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047BCD	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
TR914	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR915	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR916	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR917	2SA564Q	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564PQR	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
TR918	2SA564Q	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564PQR	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA564	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
TR919	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829BC	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *

* Lead configuration may vary from original.

(1) Used in some versions.

(12) Rating 15 W @ 2 A.

(13) Rating 750 MW @ 5 A.

AUTOMATIC MODEL CBR-2175

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C121	33 6V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C160	4.7 25V	ECEA25V47L	PC5-50	VTT47B50	QV1-27	EV-1319
C162	100 10V	ECEA10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C163	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C164	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C171	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C172	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C173	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C179	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C180	33 6V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C181	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C182	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C183	100 6V	ECEA6V100L	PC100-10	VTT100E10	QV1-93	EV-1030
C184	33 6V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C185	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C186	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C187	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C203	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C204	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C205	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C208	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C211	470 16V	ECEA16V470Z	PC500-16	VTT470K16	QV1-151	EV-1250
C303	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C304	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C305	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C308	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C311	470 16V	ECEA16V470Z	PC500-16	VTT470K16	QV1-151	EV-1250
C606	33 6V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C607	10 10V	ESCZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C608	10 10V	ESCZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C701	470 16V	ECEA16V470W	PC500-16	VTT470K16	QV1-151	EV-1250
C706	470 16V	ECEA16V470Z	PC500-16	VTT470K16	QV1-151	EV-1250
C805	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C824	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C827	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C851	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C852	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C862	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C871	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C872	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C874	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C875	47 16V	ECEA16V47L	PC50-16	VTT47D16	QV1-73	EV-1226
C877	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C878	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C884	33 16V	ECEA16V33L	PC30-25	VTT33D25	QV1-63	EV-1325
C908	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C917	47 10V	ECEA10V47L	PC50-16	VTT47D16	QV1-73	EV-1226
C953	47 10V	ECEA10V47L	PC50-16	VTT47D16	QV1-73	EV-1226
C956	10 10V	ESCZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C957	1 35V	ESCZ35EFRTQ		TDC104M050EL	QDT1-2	SD50-R109
C973	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C976	47 10V	ECEA10V47L	PC50-16	VTT47D16	QV1-73	EV-1226
C990	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C51	33 + 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C52	18 10%				CN0418		10TCC-Q18
C53	10 N330 10%	YECCD1H100JS			*		10TCS-Q10
C54	8 N330	YECCD1H080DS			*		10TCS-V82
C55	6	ECV1ZW06X32					
C56	2 +.25	YECCD1H020CM					
C58	470 10%		DD-471	GP470	GP347		10TS-T47
C59	470 10%		DD-471	GP470	GP347		10TS-T47
C60	5 +.5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C61	5 +.5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C62	12 N750				CN7412		10TCU-Q12
C63	6	ECV1ZW06X32					
C64	2 +.25	YECCD1H020CM					
C65	27 10%				CN0427		10TCC-Q27
C66	1 +.25	YECCD1H010CM					
C67	270 5%		DTZ-270				10TCC-T27
C68	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C69	3 N470 +.5	YECCD1H030DV			*		10TCT-V30
C70	39 10%				CN0439		10TCC-Q39
C71	470 10%		DD-471	GP470	GP347		10TS-T47
C72	4 N470 +.5	YECCD1H040DV			*		10TCT-V39
C73	5	YECCD1H040DV					
C74	.0047 10%	YECCD1H040DV		WMF1D47	EWFA1A247	QF1-57	1PB-D47
C75	4 N470 +.5	YECCD1H040DV			*		10TCT-V39
C76	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C101	15 10%	ECV1ZW50X32	DTZ-15	NP015	CN0415		10TCC-Q15
C102	50						GKB-50000
C103	15 10%		DTZ-15	NP015	CN0415	QF1-91	10TCC-Q15
C104	.01			WMF1S1	EWFA1A110		1PB-S10
C105	.0022 10%	YECQN1H473M			M192P2229R8	QF1-171	192P2229R8
C106	.047 10%				EWFA1A147		1PB-S47
C107	.033	YECCD1H030DV			M192P3339R8		192P3339R8
C108	70	YECCD1H030DV					
C109	100 10%		DD-101	GP100	GP310		10TS-T10
C110	.0022 10%				M192P2229R8		192P2229R8
C111	.0056 10%			WMF1D56	EWFA1A256		1PB-D56
C112	180 N330 5%	YECCD1H181JS			*		10TCT-T18
C113	39 10%				CN0439		10TCC-Q39
C114	70	YECCD1H030DV					
C115	.01	YECCD1H030DV		WMF1S1	EWFA1A110	QF1-91	1PB-S10
C116	.047	YECQN1H473M			EWFA1A147	QF1-171	1PB-S47
C117	330 10%	YECQN1H473M	DD-331	GP330	GP333	QF1-171	10TS-T33
C118	.047				EWFA1A147		1PB-S47
C119	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C120	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C151	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C152	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C153	.022				M192P2239R8		192P2239R8
C154	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C155	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C156	.033				M192P3339R8		192P3339R8
C157	330 10%	YECCD1H331KM					
C158	330 10%	YECCD1H331KM					
C159	330 10%	YECCD1H331KM					
C161	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10

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
C174	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471
C175	.0047 5%			CD19FD472J03	SX247		MWC-472
C176	.0047 5%			CD19FD472J03	SX247		MWC-472
C177	.033				M192P3339R8		192P3339R8
C178	.033				M192P3339R8		192P3339R8
C202	.2 12V		UK12-204		MAG12022		HY-370
C206	270 5%		DTZ-270	DPMS6D2	PVC622		10TCC-T27
C207	.0018 10%				CN7327		6PS-D20
C209	.3 12V			WMF05P1	EWFO5010		10TCU-T27
C210	.1				MAG12022		431P1049R5
C302	.2 12V		UK12-204				HY-370
C306	270 5%		DTZ-270				10TCC-T27
C307	.0018 10%		DD-182	GP1800	GP218		10TS-D18
C309	.3 12V				CN7327		10TCU-T27
C310	.1			WMF05P1	EWFO5010		431P1049R5
C601	390 5%		DD-391	GP390	GP339		10TS-T39
C602	.018				M192P1839R8		192P1839R8
C603	180 10%		DD-181		GP318		10TS-T18
C604	68 10%		DD-680	GP68	GP468		10TS-Q68
C605	.047 10%				EWFA1A147	QF1-171	1PB-S47
C609	.015				M192P1539R8		192P1539R8
C610	180 10%		DD-181	GP68	GP318		10TS-T18
C611	68 10%		DD-680	GP468	GP468		10TS-Q68
C612	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C613	.001 10%			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C614	.0027 10%				M192P2729R8		192P2729R8
C615	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C616	.01	(1)	DC-103	MGP01	TA110	QC2-141	TG-S10
C617	.01	(1)	DC-103	MGP01	TA110	QC2-141	TG-S10
C618	.001 10%	(1)	DD-102		GP210		10TS-D10
C702	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C703	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C704	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C705	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C801	12 10%			CN0412			10TCC-Q12
C802	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C803	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C804	.01 10%	YECKD1H103KB					
C806	.01 10%	YECKD1H103KB					
C807	68 10%		DD-680	GP68	GP468		10TS-Q68
C808	10 +.5	YECCD1H100FM					
C809	.01 10%	YECCD1H100FM					
C810	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C811	2 +.25	YECCD1H020CM					
C812	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C813	5 +.5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C814	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C815	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C816	33 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C817	.01 10%	YECKD1H103KB					
C818	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C821	220 10%		DD-221	GP322			10TS-T22
C822	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C823	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C825	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C826	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C828	.0047 10%			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C829	220 10%		DD-221	GP322			10TS-T22
C853	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C854	68 10%		DD-680	GP68	GP468		10TS-Q68
C855	.001 10%			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C856	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C857	22 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C858	28 10%				CN0427		10TCC-Q27
C859	33 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C861	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C863	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C873	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C876	.1 12V		UK12-104		MAG1201		HY-360
C879	.022 10%				M192P2239R8		192P2239R8
C881	.1 12V		UK12-104		MAG1201		HY-360
C882	.1 12V		UK12-104		MAG1201		HY-360
C883	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C901	120 10%		DTZ-120		CN0312		10TCC-T12
C902	270 5%		DTZ-270				10TCC-T27
C903	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C904	220 10%		DD-221	GP322			10TS-T22
C905	270 5%		DTZ-120	CN0312			10TCC-T12
C906	220 10%		DD-221	GP322			10TS-T22
C907	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C909	68 10%		DD-680	GP68	GP468		10TS-Q68
C910	33 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C911	.01		DC-103	MGP01	TA110	QC2-141	TG-S10

AUTOMATIC MODEL CBR-2175

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
C912	220 10%	YECCD1H330JP	DD-221		GP322		10TS-T22
C913	.1 12V		UK12-104		MAG1201		HY-360
C914	33 10%		DTZ-33	NP033	CN0433	QC2-141	10TCC-Q33
C915	.01		DC-103	MGP01	TA110		TG-S10
C916	100 10%		DD-101	GP100	GP310	QC2-141	10TS-T10
C920	.01		DC-103	MGP01	TA110		TG-S10
C921	33 10%		DTZ-33	NP033	CN0433	QC2-141	10TCC-Q33
C922	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C924	.01		DC-103	MGP01	TA110	QC2-141	10TCP-Q33
C929	33 N150 5%				*		TG-S10
C930	.01	YECCD1H080DM	DC-103	MGP01	TA110	QC2-141	TG-S10
C936	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C939	8 +.5						
C940	47 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C941	.01 10%						
C942	12 10%						
C943	82 10%		DD-820		CN0412		10TCC-Q12
C944	.001 10%				GP482	QF1-1 QC2-141	10TS-Q82
C945	.01		DC-103	DPMS6D1	ENF1A210		1PB-D10
C946	47 10%		DTZ-47	MGP01	TA110		TG-S10
C954	.1 12V	YECCD1H470KS YECCD1H100KT	UK12-104	NP047	CN0447		10TCC-Q47
C955	68 10%		DD-680	GP68	MAG1201		HY-360
C958	47 N330 10%				GP468		10TS-Q68
C959	10 N470 10%				*		10TCS-Q47
C960	10 10%		DTZ-10	NP010	CN0410		10TCT-Q10
C961	220 10%		DD-221		GP322		10TCC-Q10
C962	150 10%		DD-151		GP315		10TS-T22
C963	.1 12V		UK12-104		MAG1201		10TS-T15
C964	33 10%		DTZ-33	NP033	CN0433	QC2-141	HY-360
C965	.01		DC-103	MGP01	TA110		10TCC-Q33
C966	.0018 10%	ECV1Z50X32		CD19FD182J03	SX218		TG-S10
C967	10 1%		DTZ-10	NP010	CN0410	QC2-141	MWC-182
C968	.01		DC-103	MGP01	TA110		10TCC-Q10
C969	22 10%		DTZ-22	NP022	CN0422		TG-S10
C970	22 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C971	33 10%		DTZ-33	NP033	CN0433		10TCC-Q22
C972	.001 10%			DPMS6D1	ENF1A210	QF1-1	10TCC-Q33
C974	50						1PB-D10
C975	.01		DC-103	MGP01	TA110	QC2-141	GKB-50000
C977	82 10%		DD-820		GP482		TG-S10
C978	.01	YECC1510294	DC-103	MGP01	TA110	QC2-141	10TS-Q82
CS701	.001						TG-S10

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

(1) Used in some versions.

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.
VR152	Separation	10K	EVN-JOAA00B14				
VR201	Tone - Right	50K	EWK-37FS37744 (18)				
VR202	Volume - Vight	100K					
VR301	Tone - Left	50K					
VR302	Volume - Left/ Switch	100K					
VR203	Balance	100K	EVA-HOPS15624				
VR304	Fader J- Right	40 2W	EVM-TAAS05B41 (19)				
VR404	Fader - Left	40 2W					
VR801	Switch/Squelch	10K	EWK-07AS20B14				
VR901	Power	5000	EVN-4AA00B53				
VR902	Modulation Gain	5000	EVN-4AA00B53				
VR903	Modulation	10K	EVN-K4AA0B14				

(18) Includes VR201, VR202, VR301 and VR302.

(19) Includes VR304 and VR404.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
R501 thru R507	Resistor Network		EXBR7182M (1)	R508 thru R514	Resistor Network		EXBR7182M (1)

(1) Includes seven 1800-Ohm Resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT51	FM Mixer (10.7MHz)	YEIF07S7049			(1) Part of Tuner (M100)
IFT101	AM IF (450kHz)	YEIC07D2004A			
IFT102	AM IF (450kHz)	YEIA10S7086			
IFT151	Ratio Det Pri (10.7MHz)	YEIF07S7048			
IFT152	Ratio Det Sec (10.7MHz)	YEIF07S7047			
IFT801	CB IF (10.595MHz)	E1F7S755C			
IFT802	CB IF (10.595MHz)	E1F7S755C			
IFT803	CB IF (455kHz)	YEIA07S7074C			
IFT804	CB IF (455kHz)	YEIA10S7086			
L51	FM Antenna	(1)			
L52	RF Choke (5.6uH)	YELT06C003			
L53	FM RF	(1)			
L54	FM Oscillator	(1)			
L54a	RF Choke	YELT03C011			
L101	RF Choke (8.2uH)	YELQ05C040			
L102	AM Antenna	(1)			
L103	AM RF	(1)			
L104	AM Oscillator (600kHz)	YELL07S069			
L105	RF Choke (5.6uH)	YELT06C003			
L106	AM Osc Tuning	(1)			
L151	RF Choke (33uH)	YELT06C007			
L152	RF Choke	YELM14S917			
L802	RF Choke	YELT04C020			
L803	RF Choke	YELT04C020			
L804	RF Choke (.5.6uH)	YELT06C003			
L901	Antenna Match (.3uH)	YELT04N017			
L902	Pi Filter (.3uH)	YELT04N017			
L903	Final Amp (27MHz)	EIV10H43			
L904	RF Choke (1.5uH)	YELT04N018			
L905	Xmit Driver (27MHz)	EIV10H47			
L906	RF Choke (36uH)	YELQ04N009			
L907	Pi Filter (.3uH)	YELT04N017			
T151	MPX Decoder (19kHz)	YELM07S912			
T152	MPX Decoder (38kHz)	YELM07S911			
T801	Rec Antenna (27MHz)	EIV7E701B			
T802	Rec RF (27MHz)	EIV7E701A			
T902	Xmit Buffer (27MHz)	EIV7E701A			
T903	Xmit Buffer (27MHz)	EIV7E701A			
T904	Xmit Mixer (27MHz)	EIV7E701A			

AUTOMATIC MODEL CBR-2175

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.	
L701	1.25A	.35	1.32mH	YETQ020F031 6KETQ031 (1)			(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	.5	1		YETM119X003 TM003 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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
F	3A Fast Acting	YEAFO1001 #		AGC3	HDJ	312003	150145	FG3-2

For SAFETY use only equivalent replacement part.

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	WM2291J	18-032	18-034	18-010	18-105	1	3	2	NC	NC	3

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
AJ	Jack	YAAA09009	Antenna (AM-FM)
AJ901	Jack	YEA09046	Antenna (CB)
CF151	Filter	YEIN09N5004	10.7MHz (FM)
CF152	Filter	YEIN09N5004	10.7MHz (FM)
CF801	Filter	YEIC07P2005A	455kHz (CB-Rec)
CF901	Filter	EFC527MT1	27MHz (CB-Xmit)
CF902	Filter	YEIN09N5004D	27MHz (CB-Xmit)
CN151	Jack	YEA002025	5 Pin
CN151	Plug	YEA03043	5 Pin
CN201	Jack	YEA02026	5 Pin
CN201	Plug	YEA03043	5 Pin
CN801	Jack	YEA02028	3 Pin
CN801	Plug	YEA03049	3 Pin
CN802	Jack	YEA02045	7 Pin
CN802	Plug	YEA03057	7 Pin
D154	LED	YEADTLG102	Stereo Indicator
D501			
Thru			
D514	LED	YEADSG2N52-2	Channel Indicator
FC51	Ferrite Bead	YEAQ5BRH002	
M100	Tuner	YEAU05198	AM/FM
M801	Meter	YEAU01003	S/R
PL701	Lamp	YEAL24003L	Dial Illumination (13.69V @ 39mA)
PL702	Lamp	YEAL24003L	Meter Illumination (13.69V @ 39mA)
SW701	Switch		Power (Part of Volume Control)
SW702	Switch	YEAS07026	AM/FM
SW703	Switch	YEAS09061	CB/Radio
SW802	Switch		Delta Tune (Part of Squelch Control)
SW904	Switch	YEAS09056	Monitor
SW905	Switch	YEAS10002	CB Channel Selector
X801	Crystal	YEXLHC18U016	11.050MHz (Rec Osc)
X901a	Crystal	YEXLHC18U017	10.595MHz (Xmit Osc)
X901b	Crystal	YEXLHC18U015	10.240MHz (PLL Osc)
	Power Cord	YEAJ01110	DC (Power Source)
	Power Cord	YEAJ01109	DC (Set)
	Printed Circuit Board	YEAP427	Flexible, Switch
	Printed Circuit Board	YEAP433	Flexible, LED

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	YEF02350	Knob, Squelch	YEFE07054
Dial Pointer	YEFH01136	Knob, AM-FM Selector	YEFE17038
Dial Glass	YEFJ08366	Knob, Balance	YEFE04011
Knob, Channel Selector	YEFE17069	Knob, CB-Radio/Monitor	YEFE10194
Knob, Delta Tune	YEFE08068	Microphone Cord	YEAJ05001

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')