



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 79-891

MANUFACTURER'S SPECIFICATIONS

RECEIVER

Receiving System:	AM: Dual conversion superheterodyne, SSB: Single conversion superheterodyne
Sensitivity at 10 dB S/N:	AM: More than 1 microvolt SSB: More than 0.5 microvolts
Selectivity at 6 dB down:	AM: 6 kHz down SSB: 2 kHz down
Clarification:	±800 Hz, receiving only
Audio Output Power:	More than 3 watts, into 8 ohms
Squelch Range:	1 to 500 microvolts
Intermediate Frequency:	AM: 10.695 MHz (1st), 455 kHz (2nd) SSB: 10.695 MHz

SSB TRANSMITTER

SSB Generation:	Dual balanced modulator with crystal lattice filter
RF Output Power:	12 watts PEP, FCC maximum
Carrier Suppression:	More than 45 dB
Opposite Sideband Suppression:	More than 60 dB
Harmonic Suppression:	More than 60 dB

AM TRANSMITTER

Modulation:	High level class B
RF Output Power:	4 watts, FCC maximum
Harmonic Suppression:	More than 60 dB

Courtesy of the Manufacturer

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

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MIDLAND MODEL 79-891

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 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:
T1, T2, T207, T208	500, 5009, 8276, 9089
L209, L212, L214, T209	8282, 9304, 9089
T3, T4, T201 thru T206, VCO	9440
CT1, CT2, CT201, CT202, CT203	5000, 8276, 9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP3A (Q202 Collector).	Ch. 19, USB Clarifier Midrange	CT201	Adjust for 10.240MHz.
Input of oscilloscope to TP3B (IC201, Pin 4).	Ch. 19, USB Clarifier Midrange	T201	Adjust for maximum RF. (150mV p-p typical). (See Figure 1.)
Input of frequency counter to TP3B (IC201, Pin 4).	Ch. 19, USB Clarifier Midrange	CT203	Adjust for 20.105MHz.
	Ch. 19, LSB Clarifier Midrange	CT202	Adjust for 20.1035MHz.
Input of frequency counter to TP5 (Q4, Emitter).	Ch. 19, USB Clarifier Midrange	CT1	Adjust for 10.698 MHz.
	Ch. 19, LSB Clarifier Midrange	CT2	Adjust for 10.692MHz.
Input of DC meter to TP1. (Junction of R201 & R202).	Ch. 1, USB Clarifier Midrange	VCO	Adjust for 3.6 volts. Check for approx. 2.00 volts on Channel 40.
Input of oscilloscope to TP13 (IC202, Pin 1).	Ch. 40, USB Clarifier Midrange	T202	Adjust for maximum RF. (80mV p-p typical). (See Figure 2).
	Ch. 1, USB Clarifier Midrange	T203	Adjust for maximum RF. (80mV p-p typical). (See Figure 2).
Input of frequency counter to TP13 (IC202, Pin 1).	Ch. 1, USB or AM, Clarifier Midrange		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP13 (IC202, Pin 1).	Ch. 1, LSB Clarifier Midrange		Check for 37.657MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP14 (IC203, Pin 2).	Ch. 1, AM Clarifier Midrange		Check for 2.550MHz. Check all channels. (See Truth Chart for correct frequencies).

AM 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.
Clarifier Midrange, Squelch MINIMUM, NB Off, Tone Hi, Local/Dist. Dist.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP11 (Q5, Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM	T2,T1	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, AM	T208,T207, T204,T205, T206	Adjust for maximum output. If necessary readjust T1 and T2. Recheck alignment of T204 and T205 in Transmitter Alignment.

SSB RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Preset as indicated, unless otherwise noted:
Clarifier Midrange, Squelch MINIMUM, NB Off, Tone Hi, Local/Dist - Dist.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to TP12. (D3, Cathode) 10.694MHz, no modulation.	Ch. 19, USB	T4,T3	Adjust for maximum output.
Output of signal generator to antenna jack. 27.186MHz, no modulation.	Ch. 19, USB	T208,T207, T204,T205, T206	Adjust for maximum output. If necessary readjust T3 and T4. Recheck alignment of T204 and T205 in Transmitter Alignment.

MIDLAND MODEL 79-891

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Preset as indicated, unless otherwise noted:
Clarifier Midrange, NB Off, Squelch MINIMUM, Tone Hi, Local/Dist. - Dist.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP16. (Junction of D16 and D17). No signal input.	Ch. 19, USB	RV6	SSB AGC Adjust for 2.10 volts.
Output of signal generator thru .01 uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 19, AM	RV7	AM SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation. Output 500uV.	Ch. 19, USB	RV8	SSB SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, AM	RV5	AM SIGNAL METER Adjust for 9 on SIGNAL scale of meter.
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB	RV4	SSB SIGNAL METER Adjust for 9 on SIGNAL scale of meter.

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	TRANSCIVER	ADJUST	REMARKS
Inject a 2400Hz, 2.5mV signal at MIC input.	Ch. 40, XMT USB	T204	Adjust for maximum.
Inject a 2400Hz, 2.5mV signal at MIC input.	Ch. 1, XMT USB	T205	Adjust for maximum.
Inject a 2400Hz, 2.5mV signal at MIC input.	Ch. 19, XMT USB	T3,T209, L209,L212, L214	Adjust for maximum.

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 channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
No signal input.	Ch. 19, XMT USB	RV1,RV2	BALANCE Adjust for MINIMUM RF.
Input of DC meter to TP15 (Q208, Base).	Ch. 19, XMT USB	R204	BIAS Adjust for .7 volts.
Inject a 2400Hz, 20mV signal at MIC input.	Ch. 19, XMT USB	RV3,RV201	ALC Set RV3 to midrange. Adjust RV201 for 12 watts maximum. If necessary adjust RV3 to obtain 12 watts.
Inject a 1000Hz, 20mV signal at MIC input. Input of oscilloscope or modulation meter to antenna jack.	Ch. 19, XMT AM	RV9	AF ALC Adjust for 100% modulation, maximum. (See Figure 3.)
Connect an RF wattmeter and 50 ohm/25 watt dummy load to antenna connector.	Ch. 19, XMT AM	VR1	AM POWER Adjust VR1 for 4 watts.
Connect an RF wattmeter and 50 ohm/25 watt dummy load to antenna connector	Ch. 19, XMT AM	RV202	POWER METER Adjust RV202 so that POWER meter agrees with RF wattmeter.

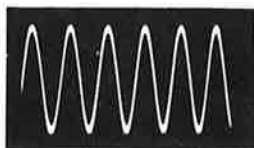


FIGURE 1

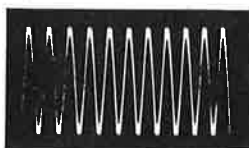


FIGURE 2

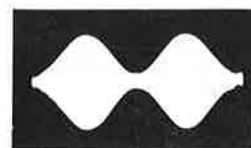
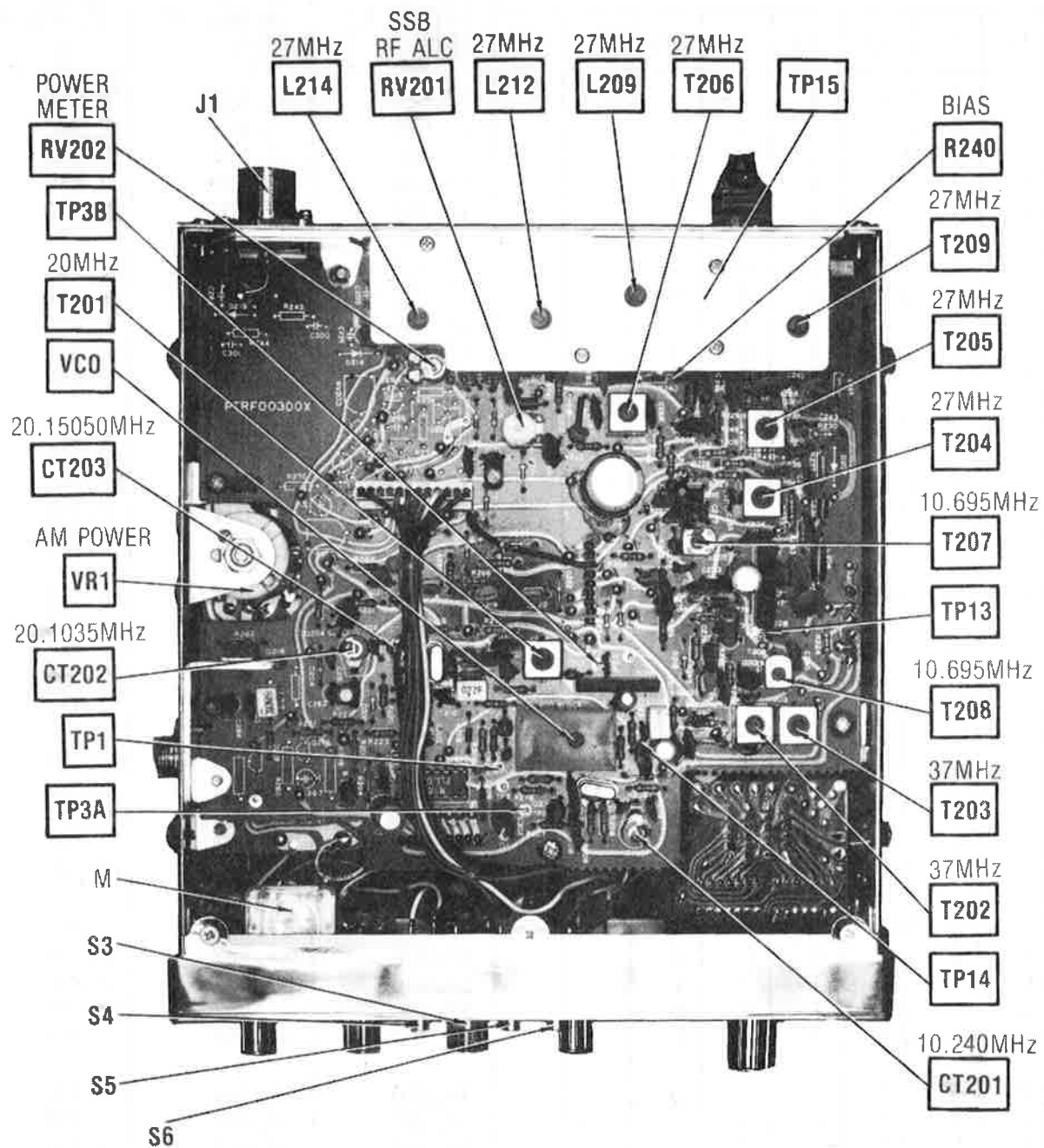


FIGURE 3

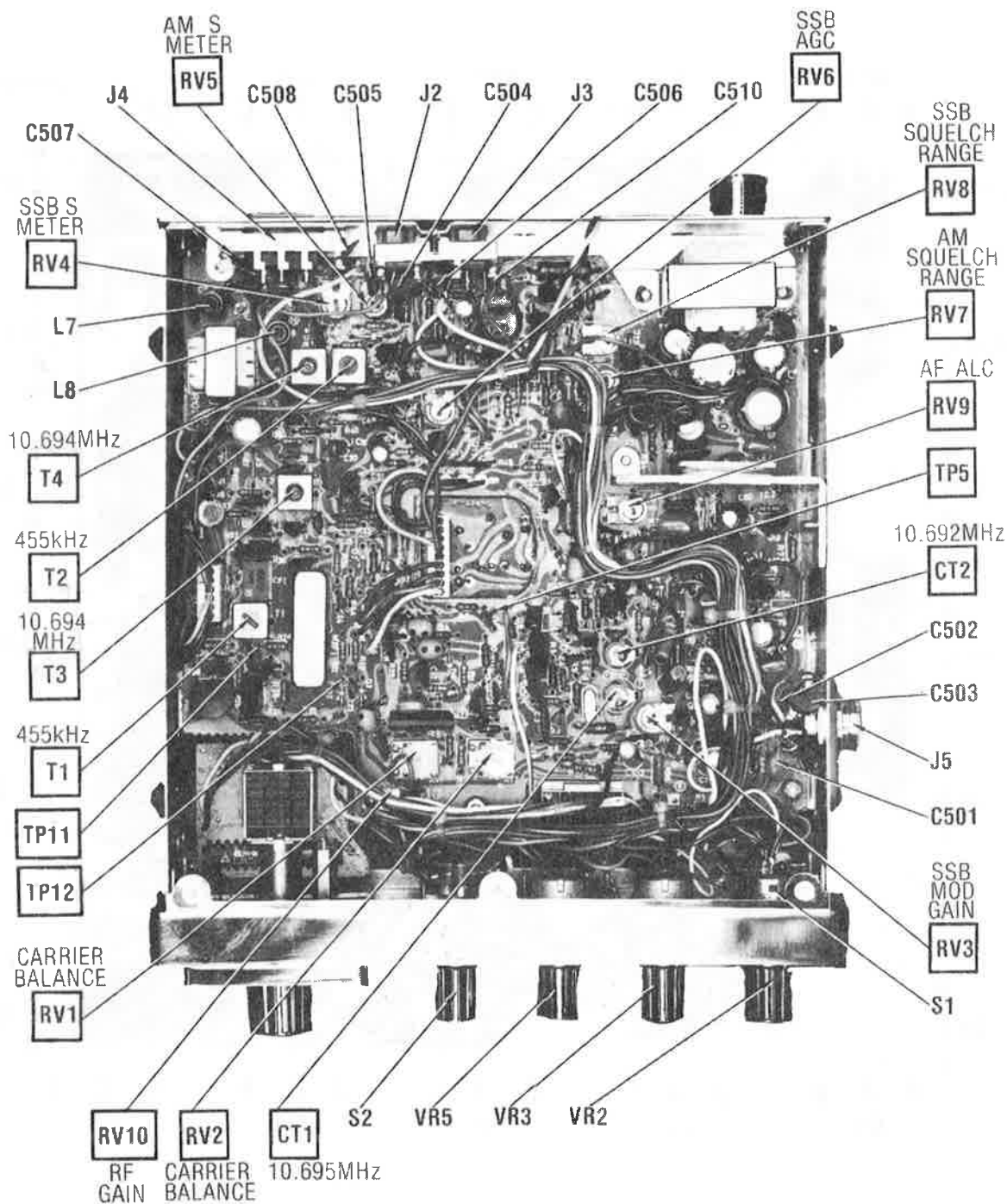
TRUTH CHART

C H A N N E L	1 = 5.40 Volts 0 = 0 Volts								USB (REC & XMT) AM (REC & XMT) SYNTHESIZER OUTPUT IN MHz AT TP13	LSB (REC & XMT) SYNTHESIZER OUTPUT IN MHz AT TP13	DIVIDER INPUT IN MHz AT TP14
	IC203 PROGRAM DIVIDER										
	PINS										
	10	11	12	13	14	15					
1	1	1	1	1	1	1			37.660	37.657	2.550
2	1	1	1	1	1	0			37.670	37.667	2.540
3	1	1	1	1	0	1			37.680	37.677	2.530
4	1	1	1	0	1	1			37.700	37.697	2.510
5	1	1	1	0	1	0			37.710	37.707	2.500
6	1	1	1	0	0	1			37.720	37.717	2.490
7	1	1	1	0	0	0			37.730	37.727	2.480
8	1	1	0	1	1	0			37.750	37.747	2.460
9	1	1	0	1	0	1			37.760	37.757	2.450
10	1	1	0	1	0	0			37.770	37.767	2.440
11	1	1	0	0	1	1			37.780	37.777	2.430
12	1	1	0	0	0	1			37.800	37.797	2.410
13	1	1	0	0	0	0			37.810	37.807	2.400
14	1	0	1	1	1	1			37.820	37.817	2.390
15	1	0	1	1	1	0			37.830	37.827	2.380
16	1	0	1	1	0	0			37.850	37.847	2.360
17	1	0	1	0	1	1			37.860	37.857	2.350
18	1	0	1	0	1	0			37.870	37.867	2.340
19	1	0	1	0	0	1			37.880	37.877	2.330
20	1	0	0	1	1	1			37.900	37.897	2.310
21	1	0	0	1	1	0			37.910	37.907	2.300
22	1	0	0	1	0	1			37.920	37.917	2.290
23	1	0	0	0	1	0			37.950	37.947	2.260
24	1	0	0	1	0	0			37.930	37.927	2.280
25	1	0	0	0	1	1			37.940	37.937	2.270
26	1	0	0	0	0	1			37.960	37.957	2.250
27	1	0	0	0	0	0			37.970	37.967	2.240
28	0	1	1	1	1	1			37.980	37.977	2.230
29	0	1	1	1	1	0			37.990	37.987	2.220
30	0	1	1	1	0	1			38.000	37.997	2.210
31	0	1	1	1	0	0			38.010	38.007	2.200
32	0	1	1	0	1	1			38.020	38.017	2.190
33	0	1	1	0	1	0			38.030	38.027	2.180
34	0	1	1	0	0	1			38.040	38.037	2.170
35	0	1	1	0	0	0			38.050	38.047	2.160
36	0	1	0	1	1	1			38.060	38.057	2.150
37	0	1	0	1	1	0			38.070	38.067	2.140
38	0	1	0	1	0	1			38.080	38.077	2.130
39	0	1	0	1	0	0			38.090	38.087	2.120
40	0	1	0	0	1	1			38.100	38.097	2.110

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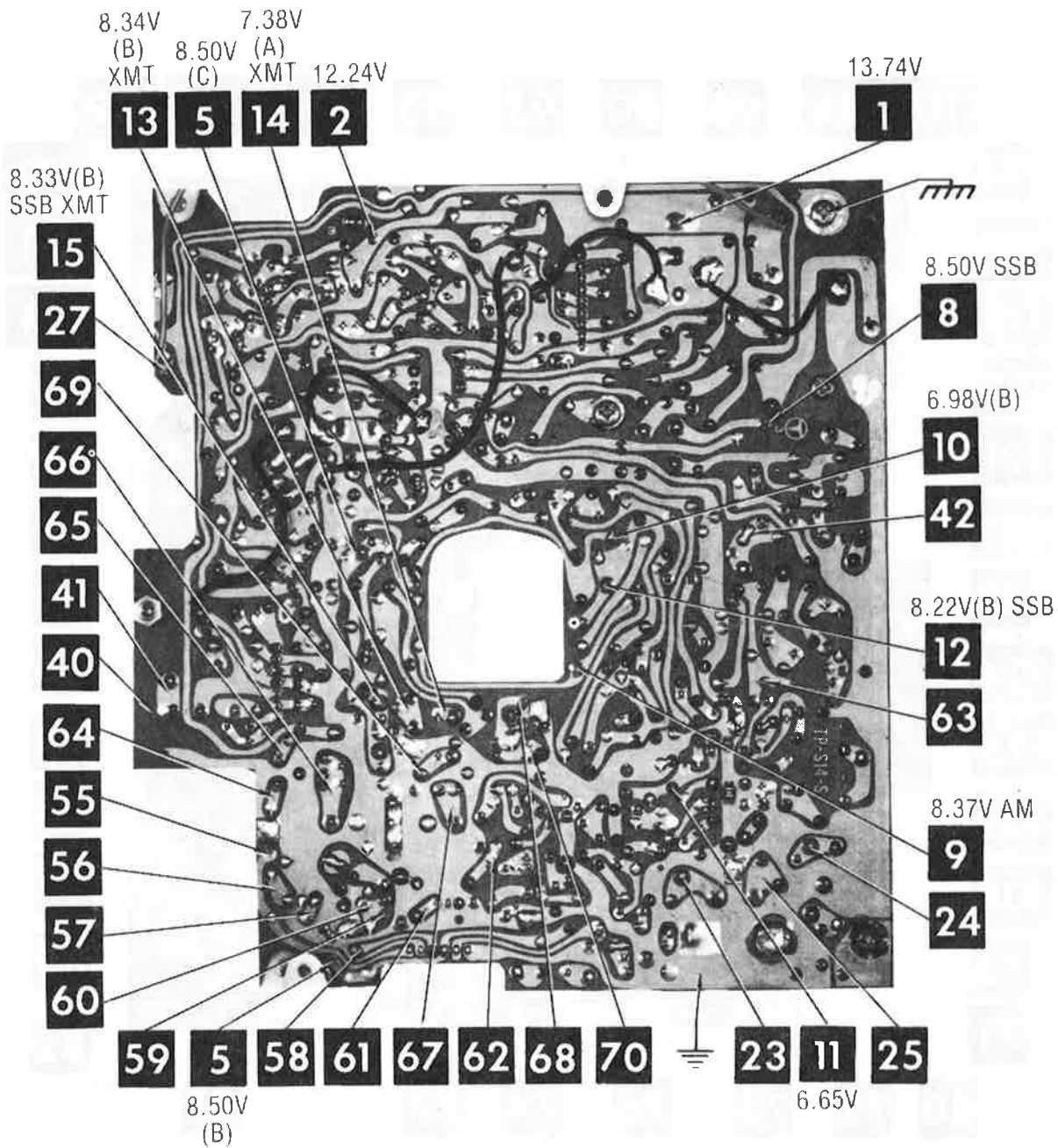


CHASSIS - TOP



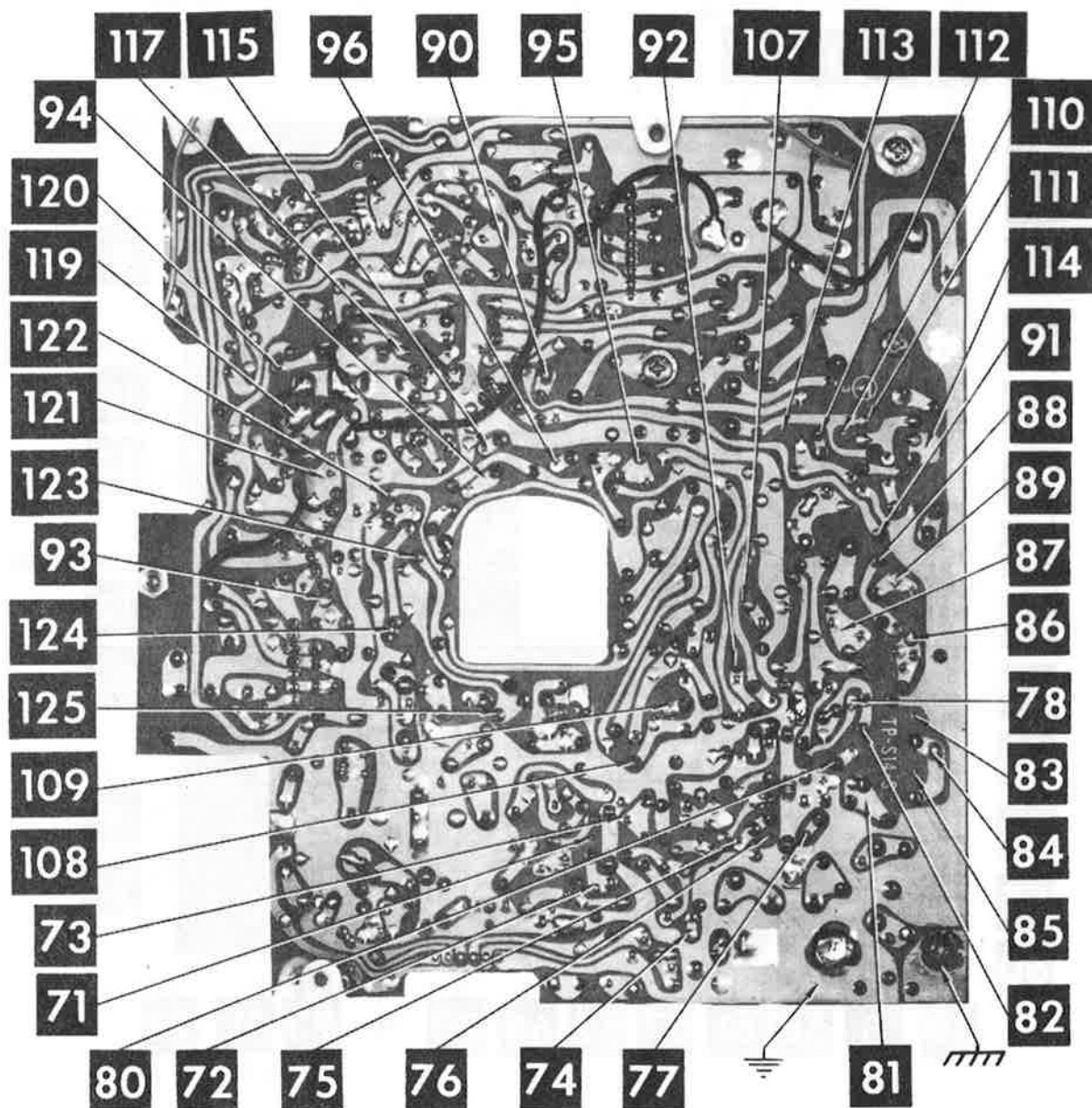
CHASSIS - BOTTOM



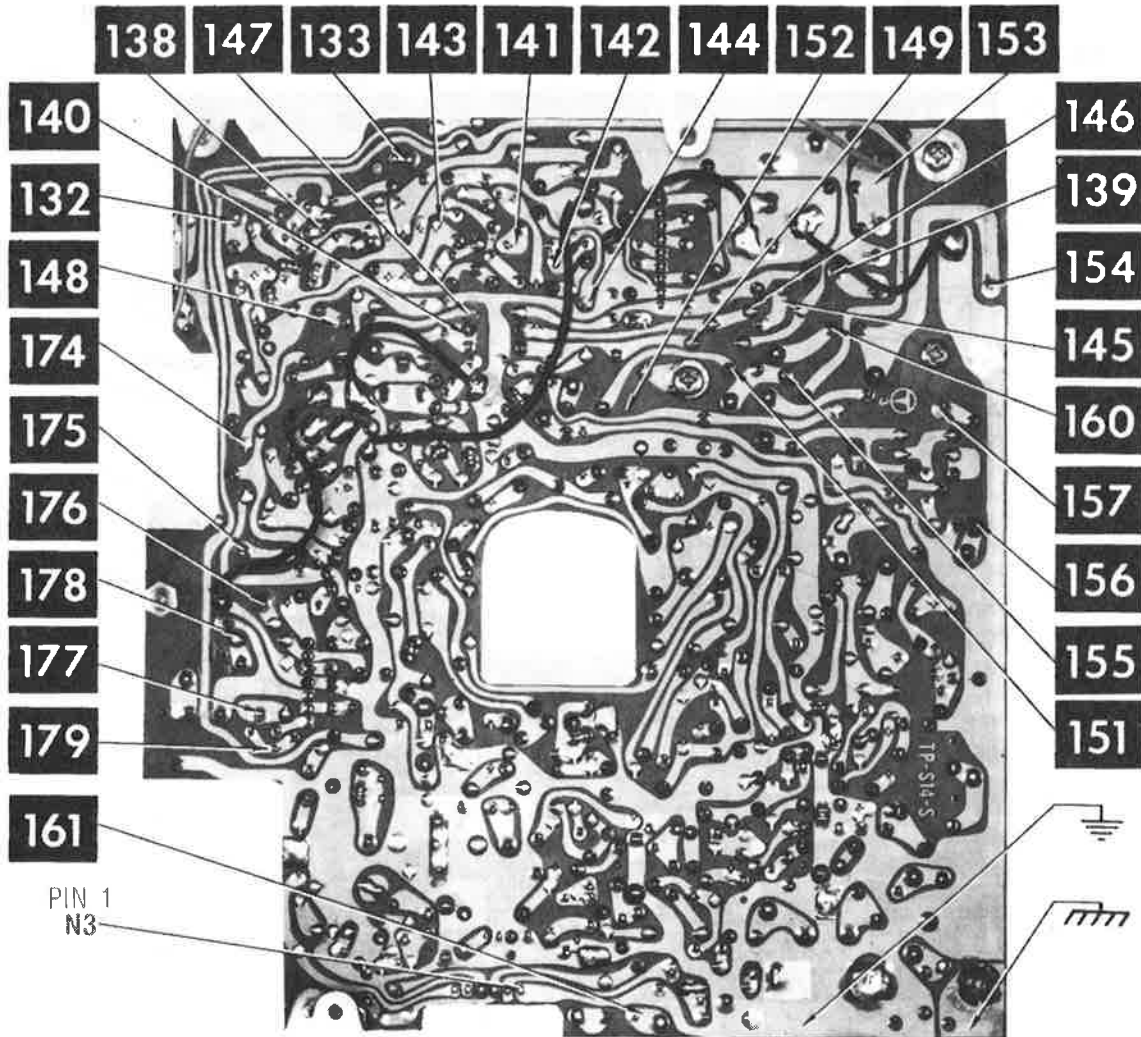


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IF - AUDIO BOARD

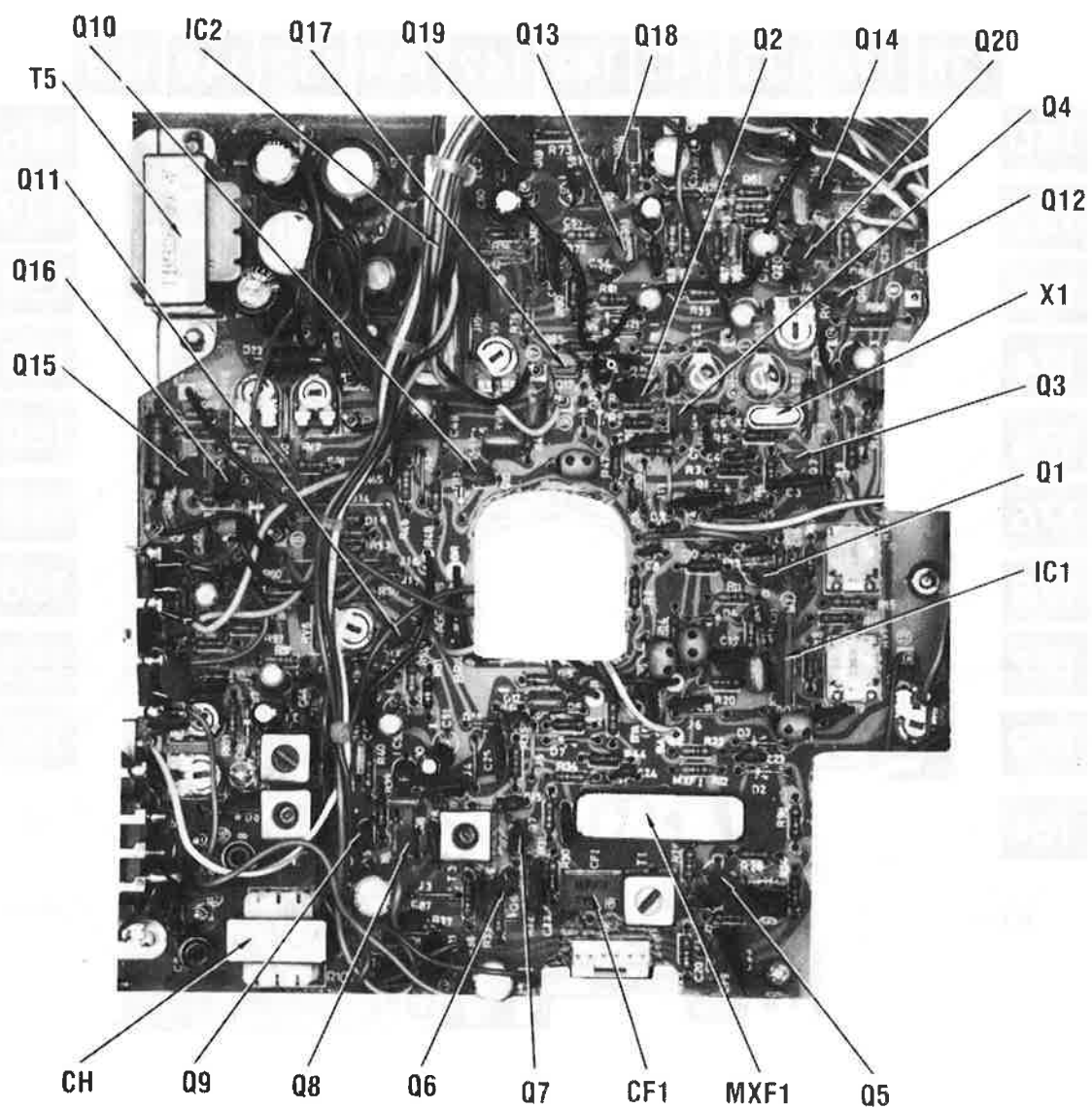


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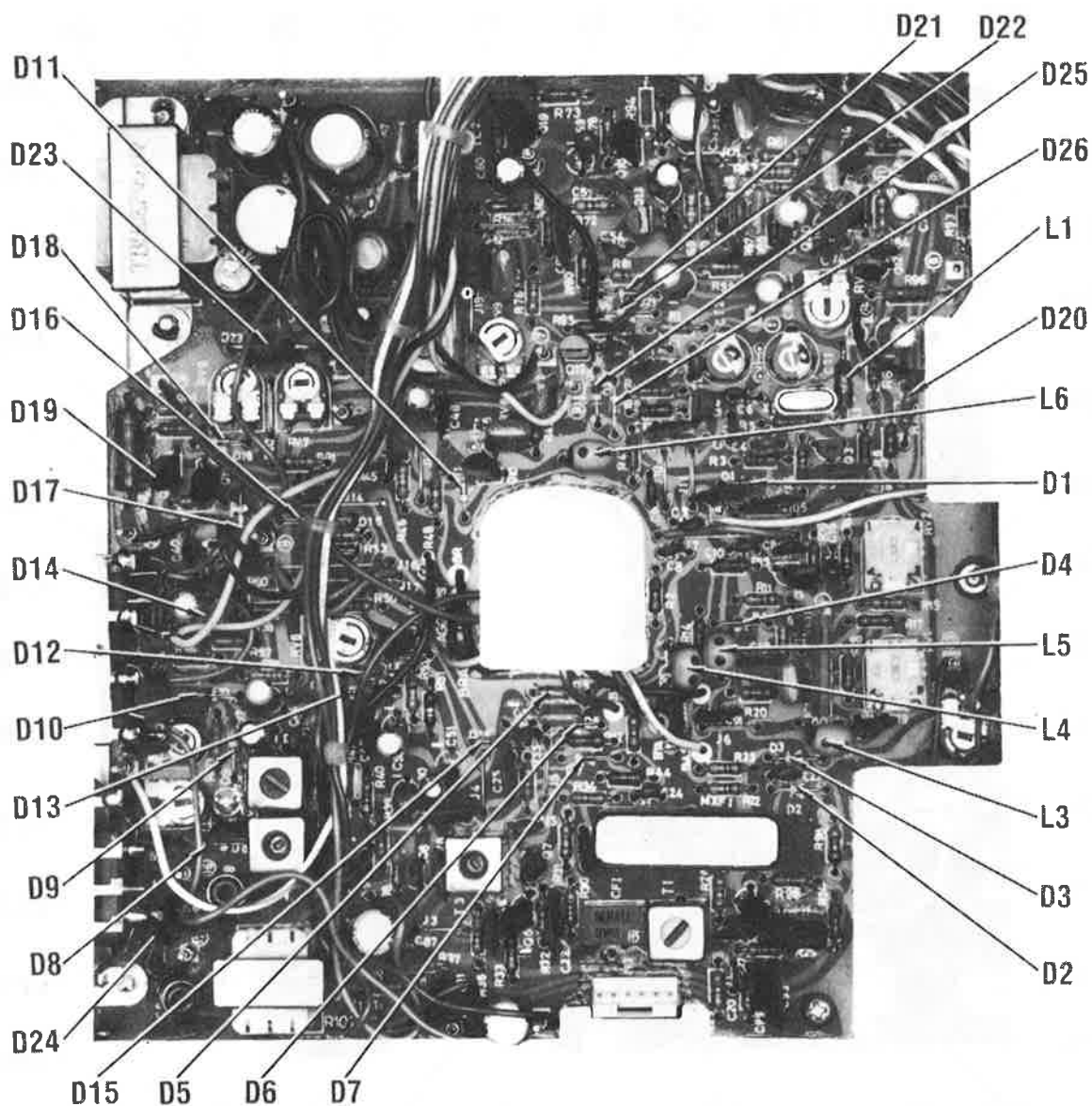


MIDLAND MODEL 79-891

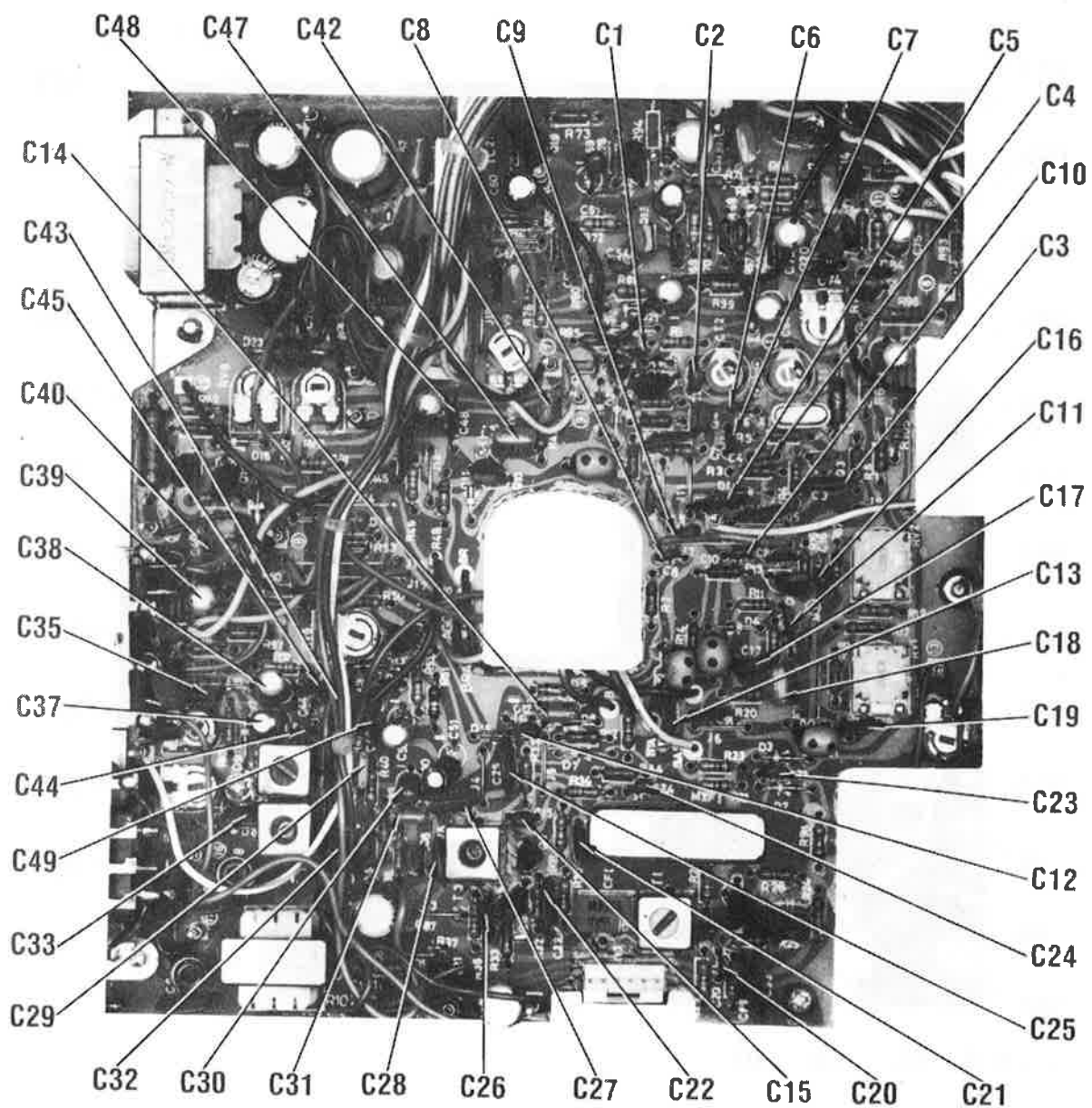
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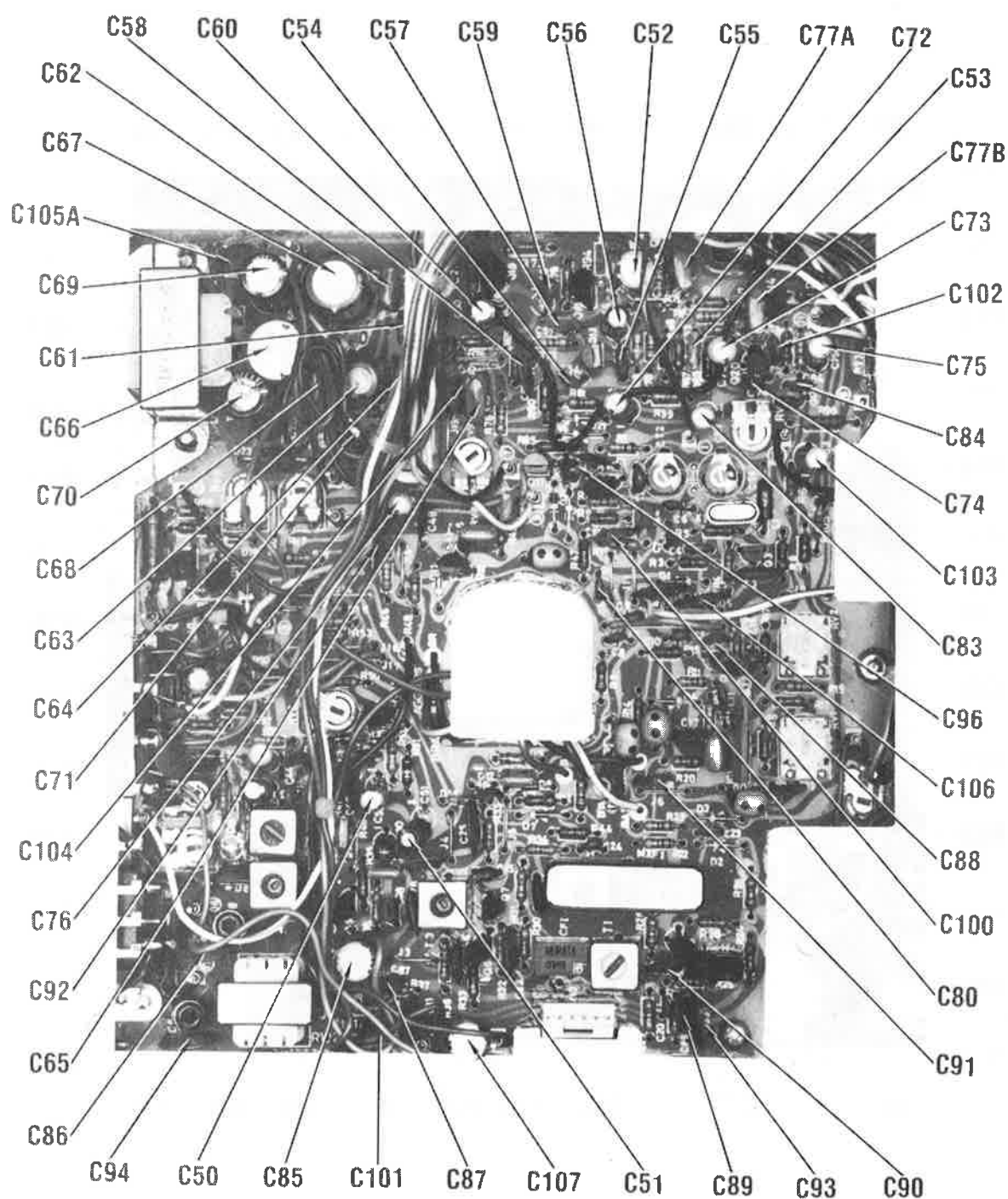
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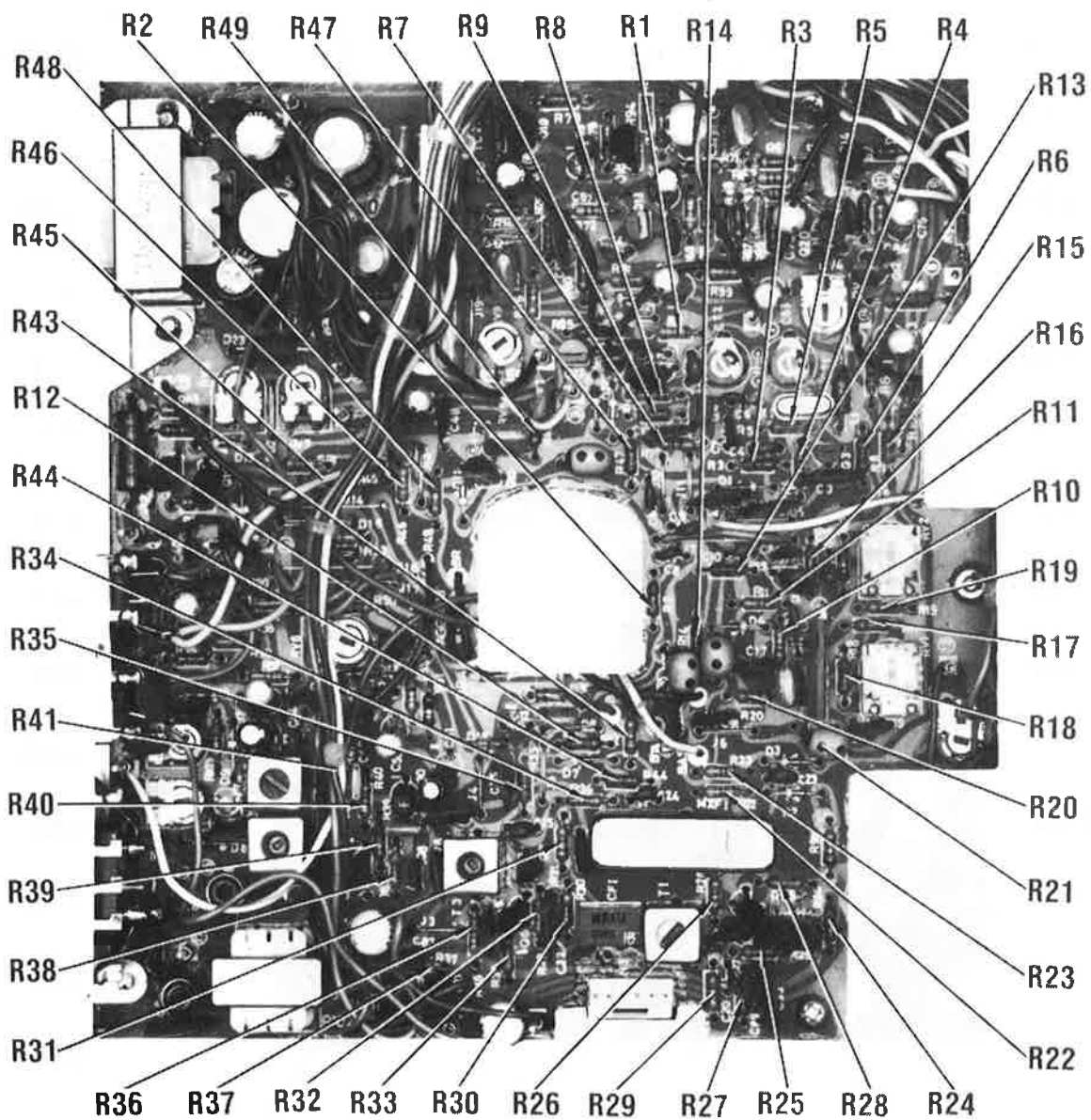
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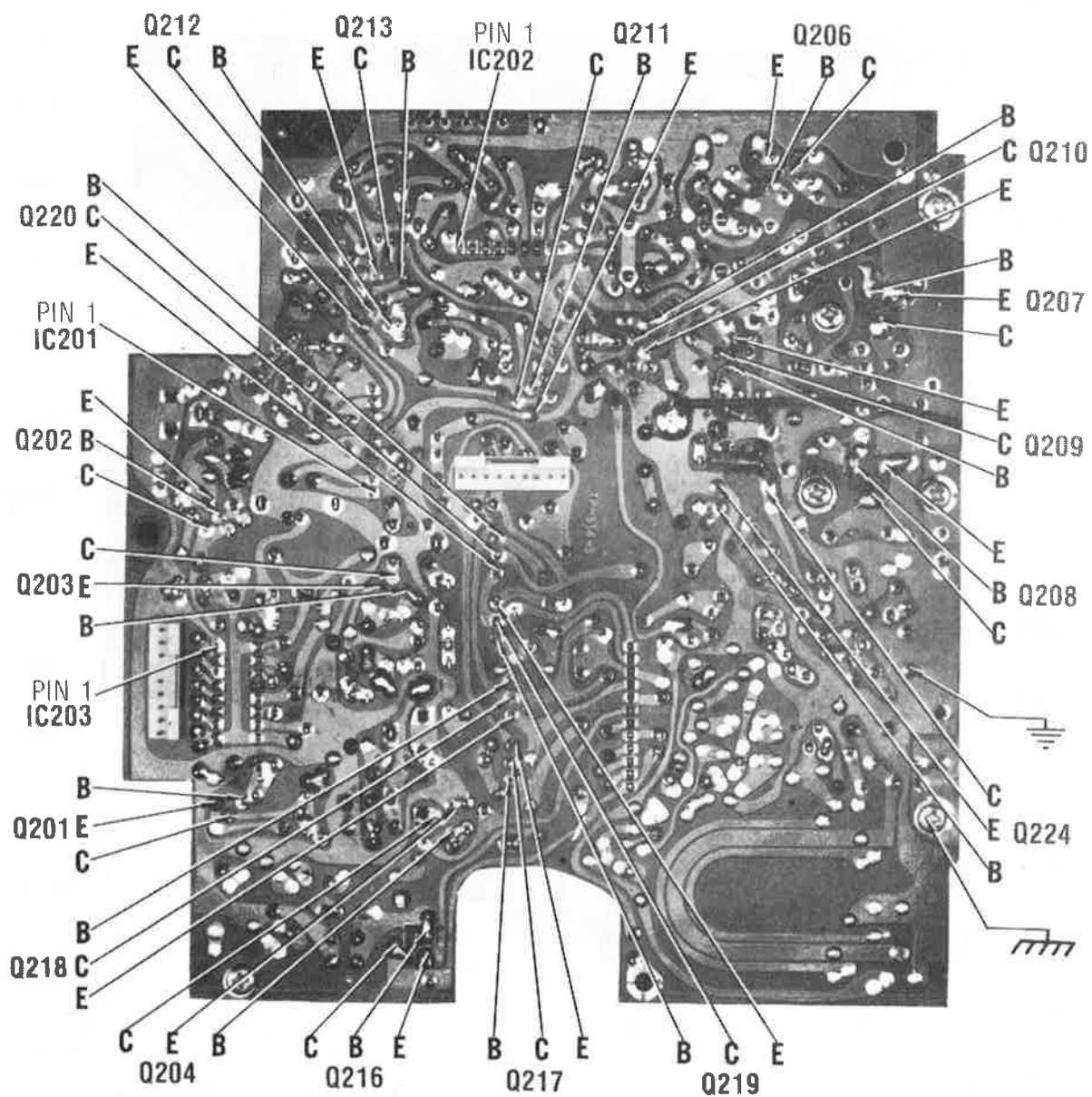
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IF - AUDIO BOARD



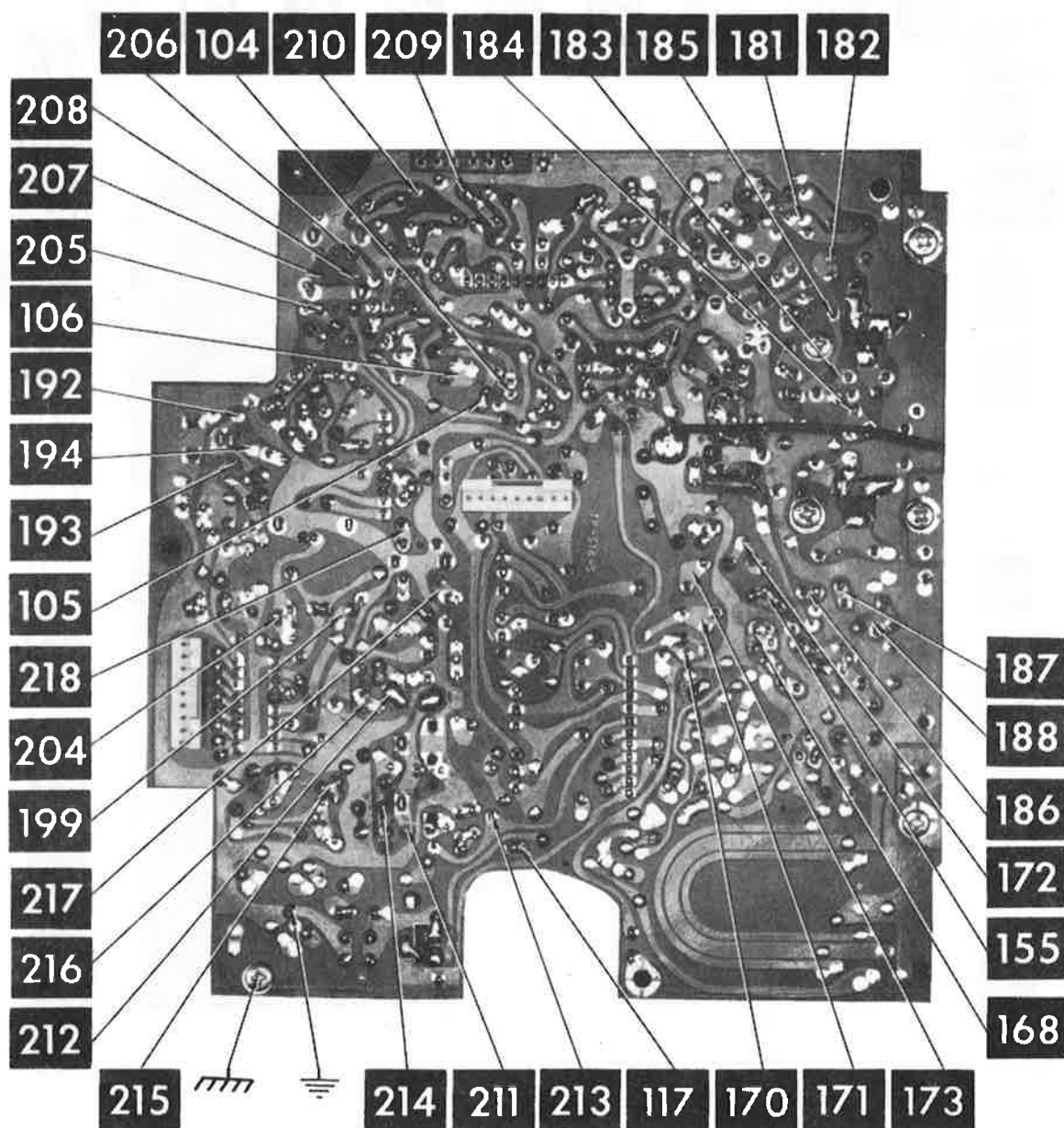
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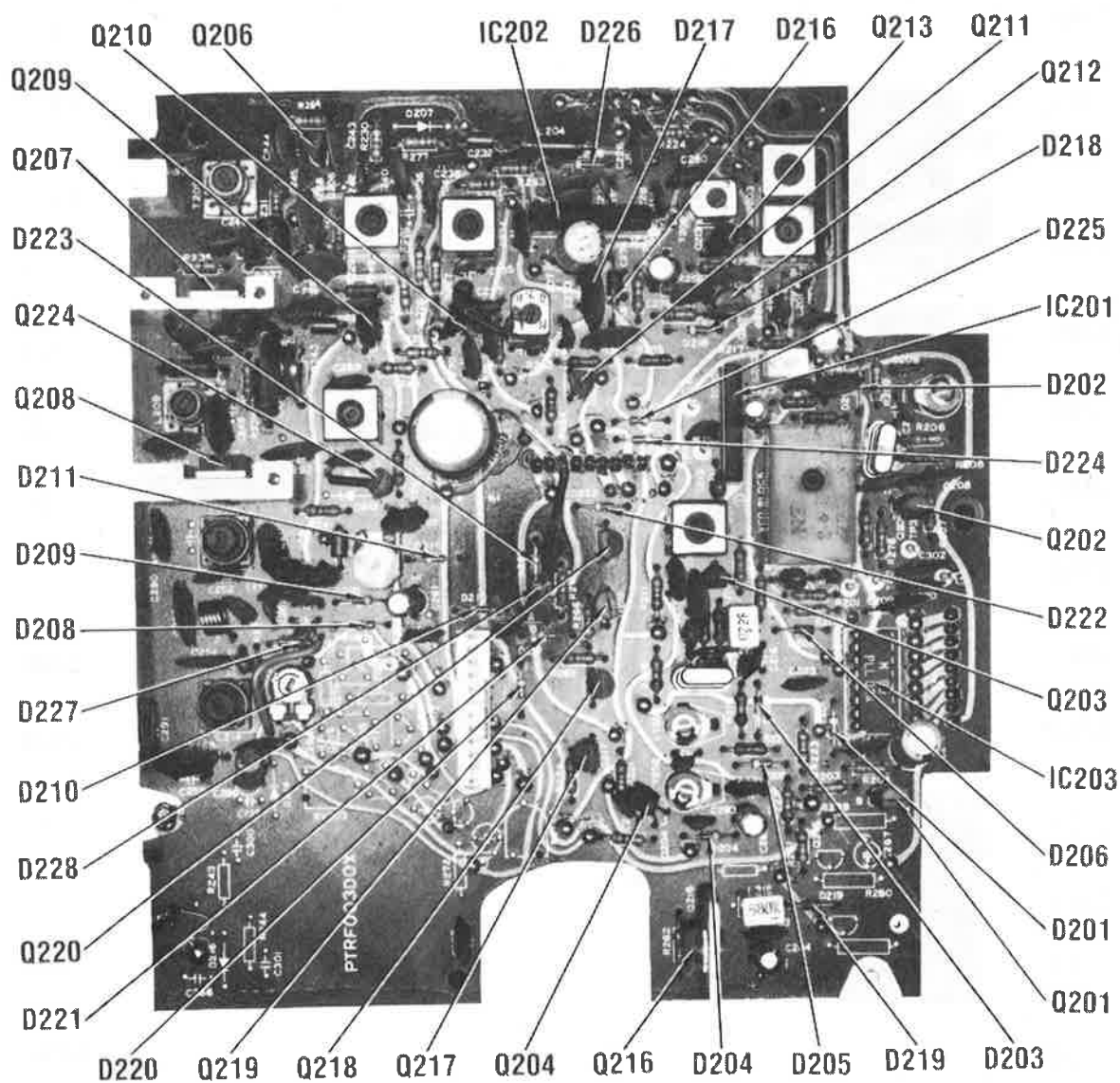
TRANSMIT BOARD



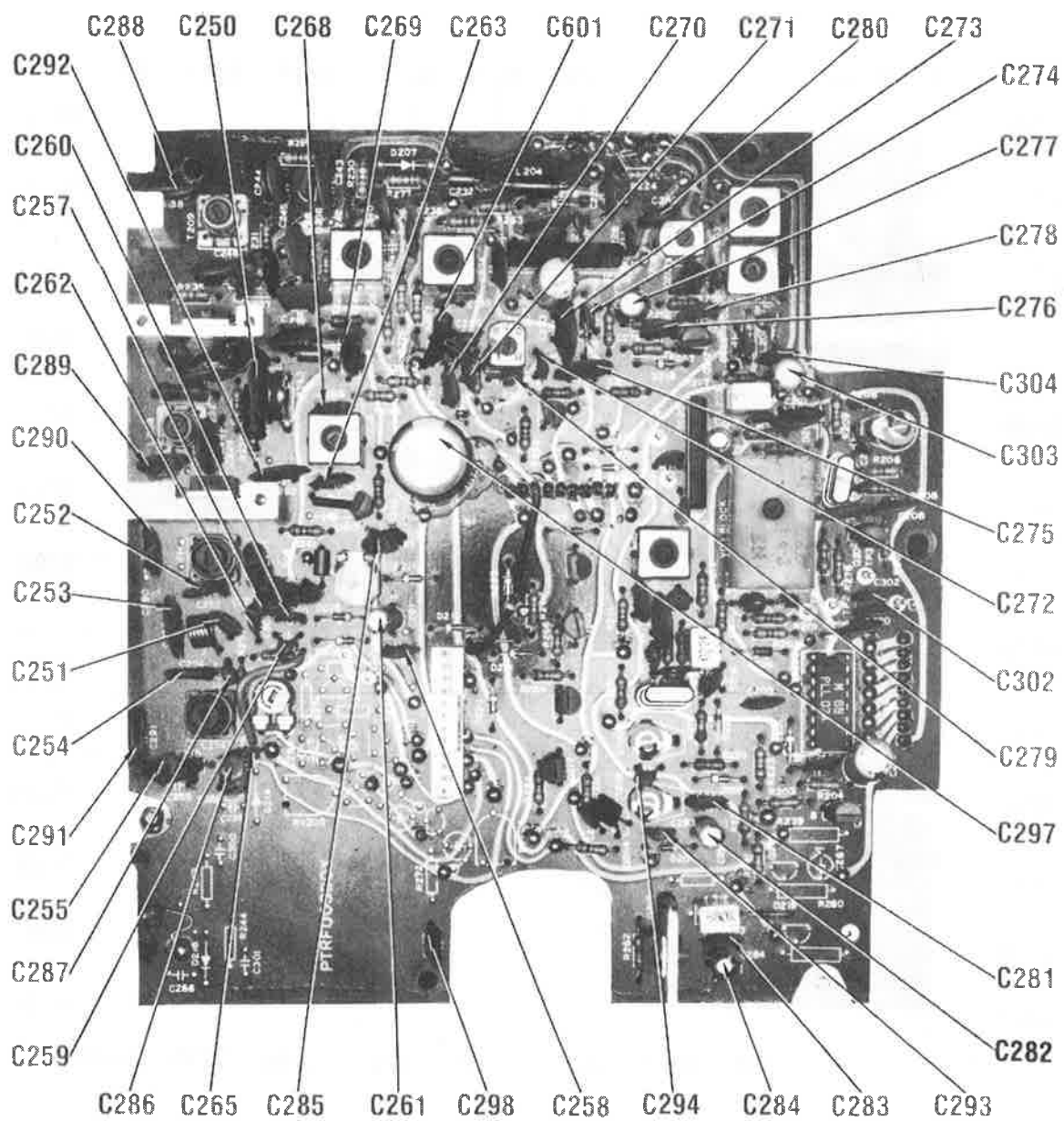
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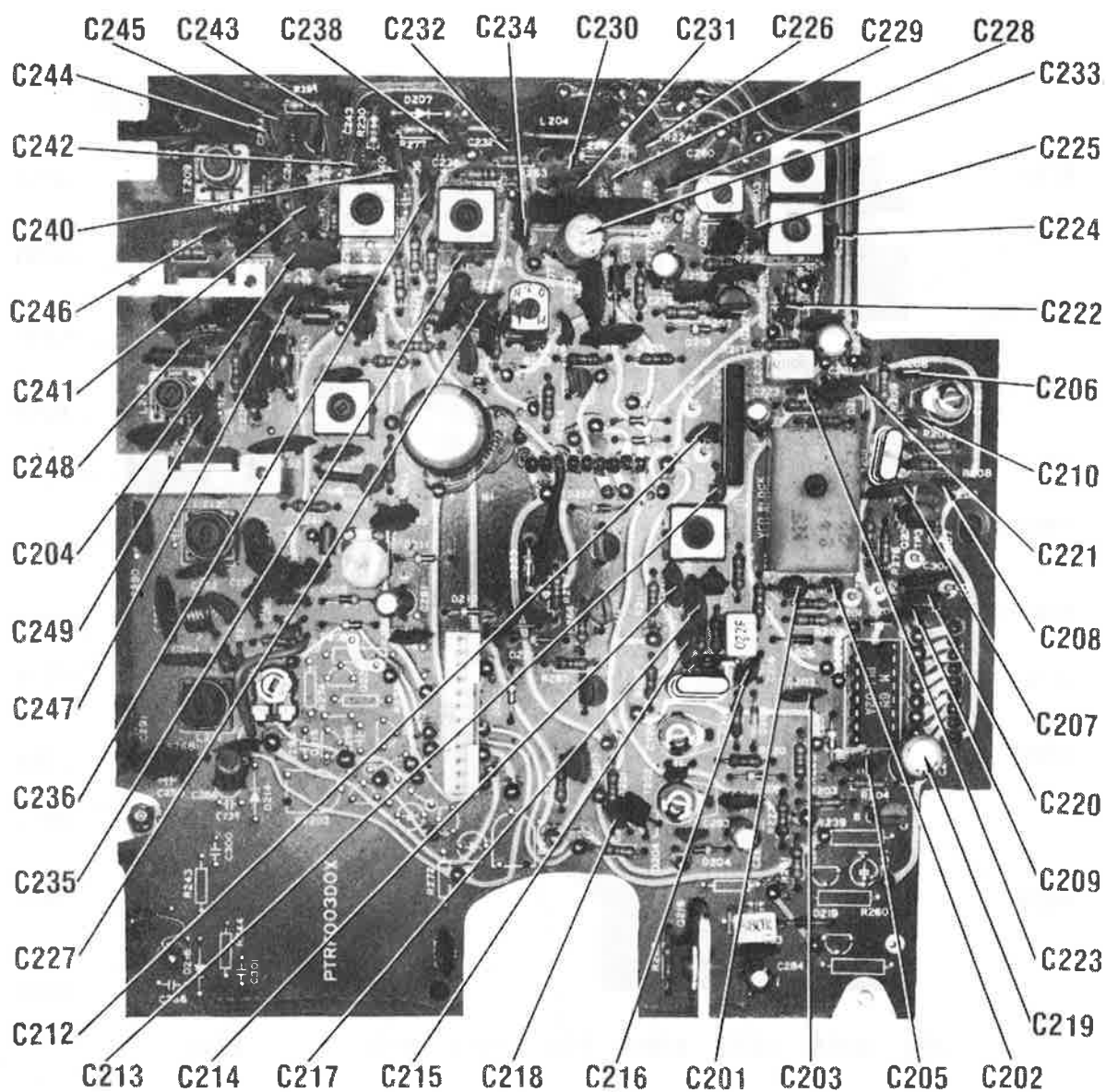
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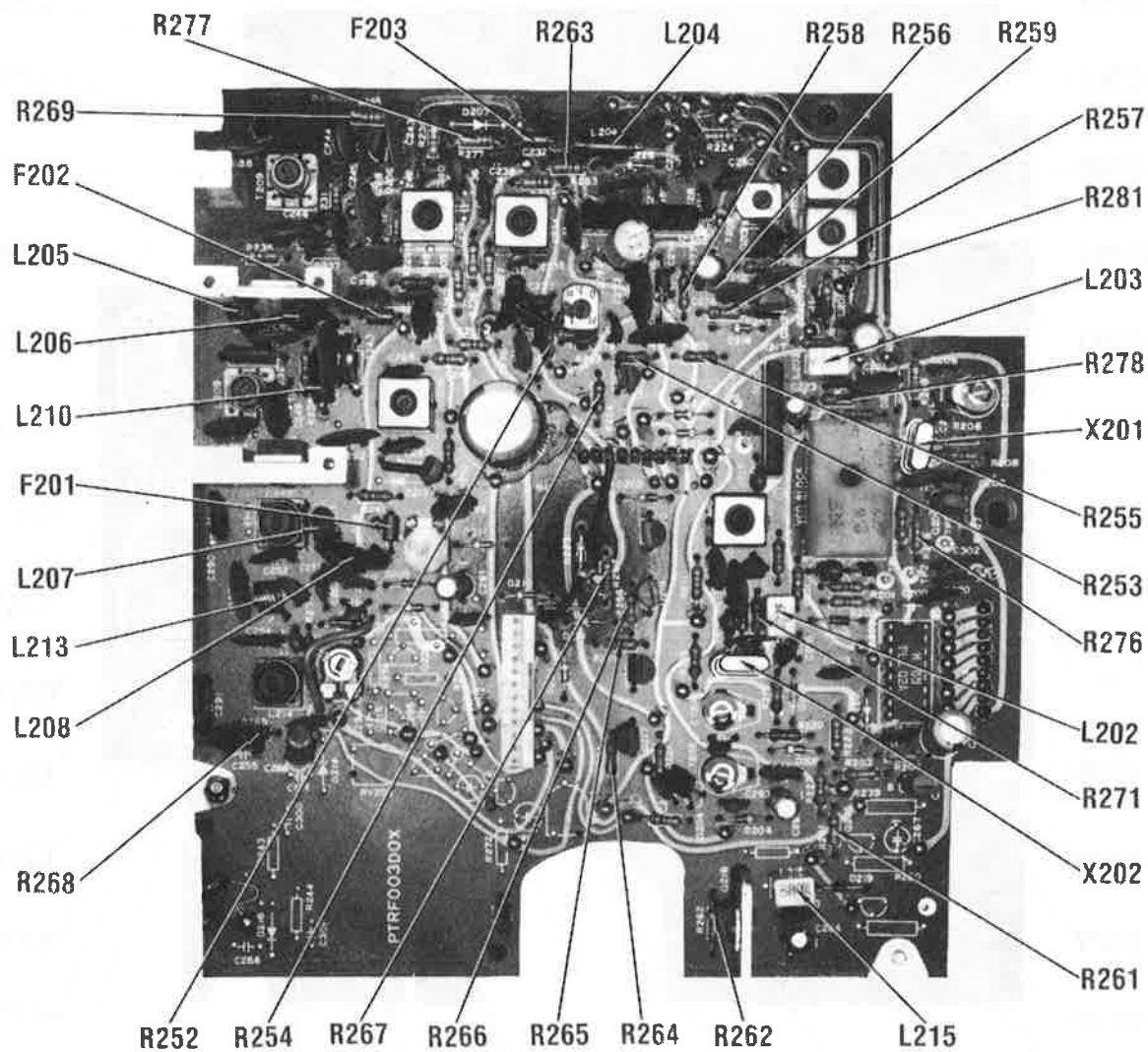
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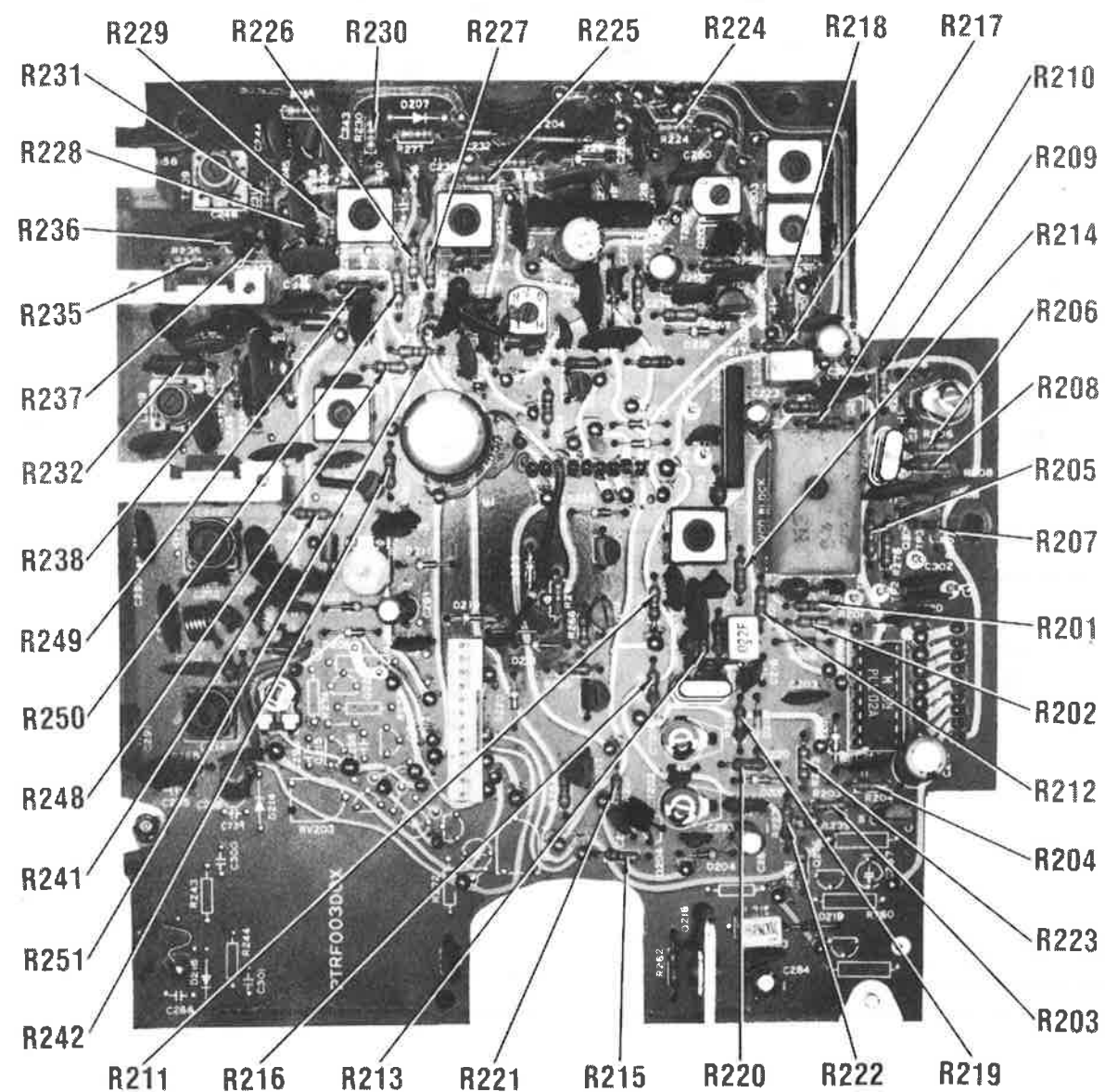
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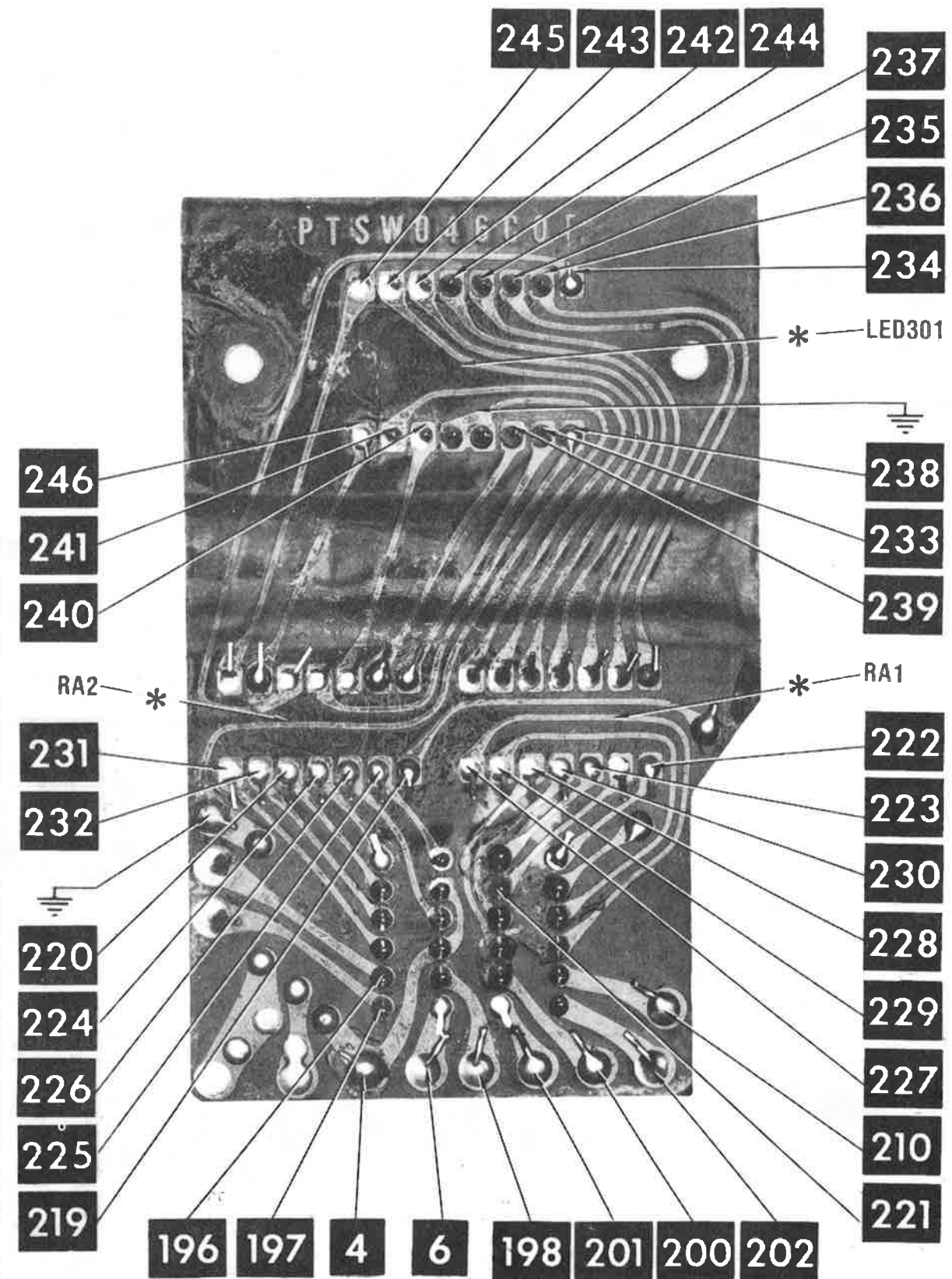
TRANSMIT BOARD



TRANSMIT BOARD



TRANSMIT BOARD

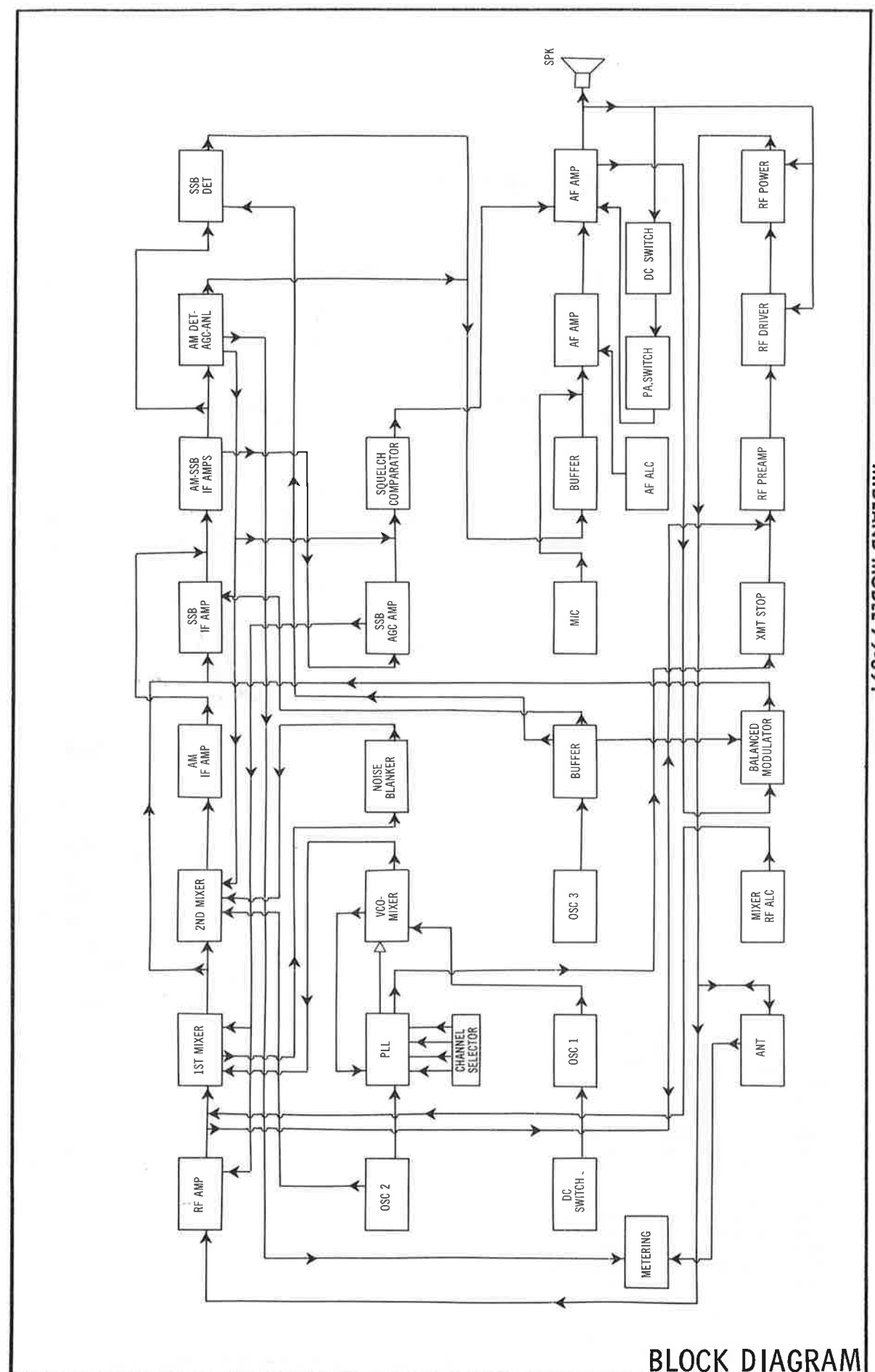
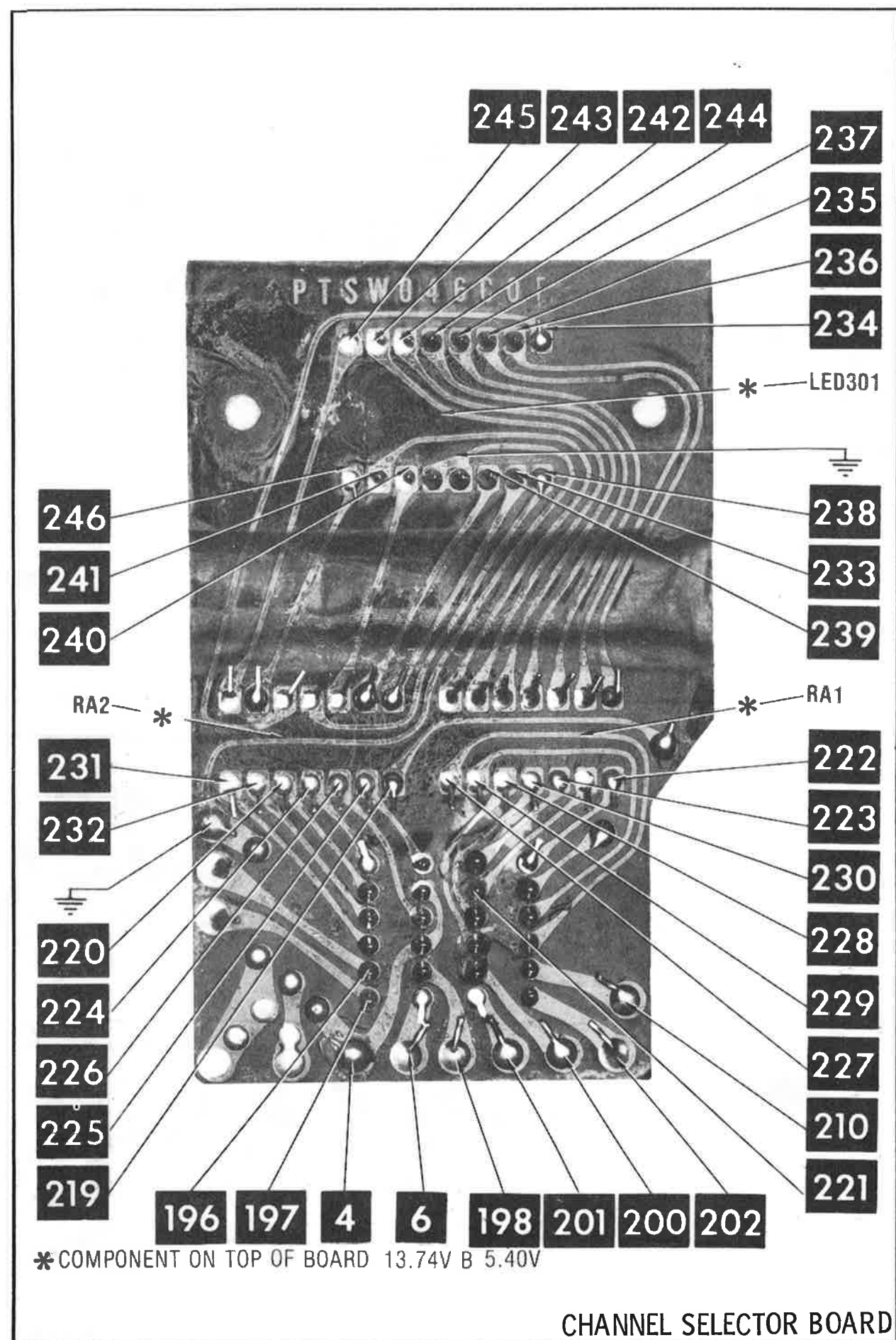


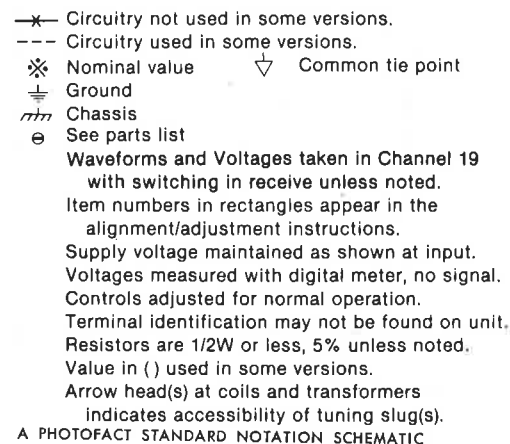
* COMPONENT ON TOP OF BOARD 13.74V B 5.40V

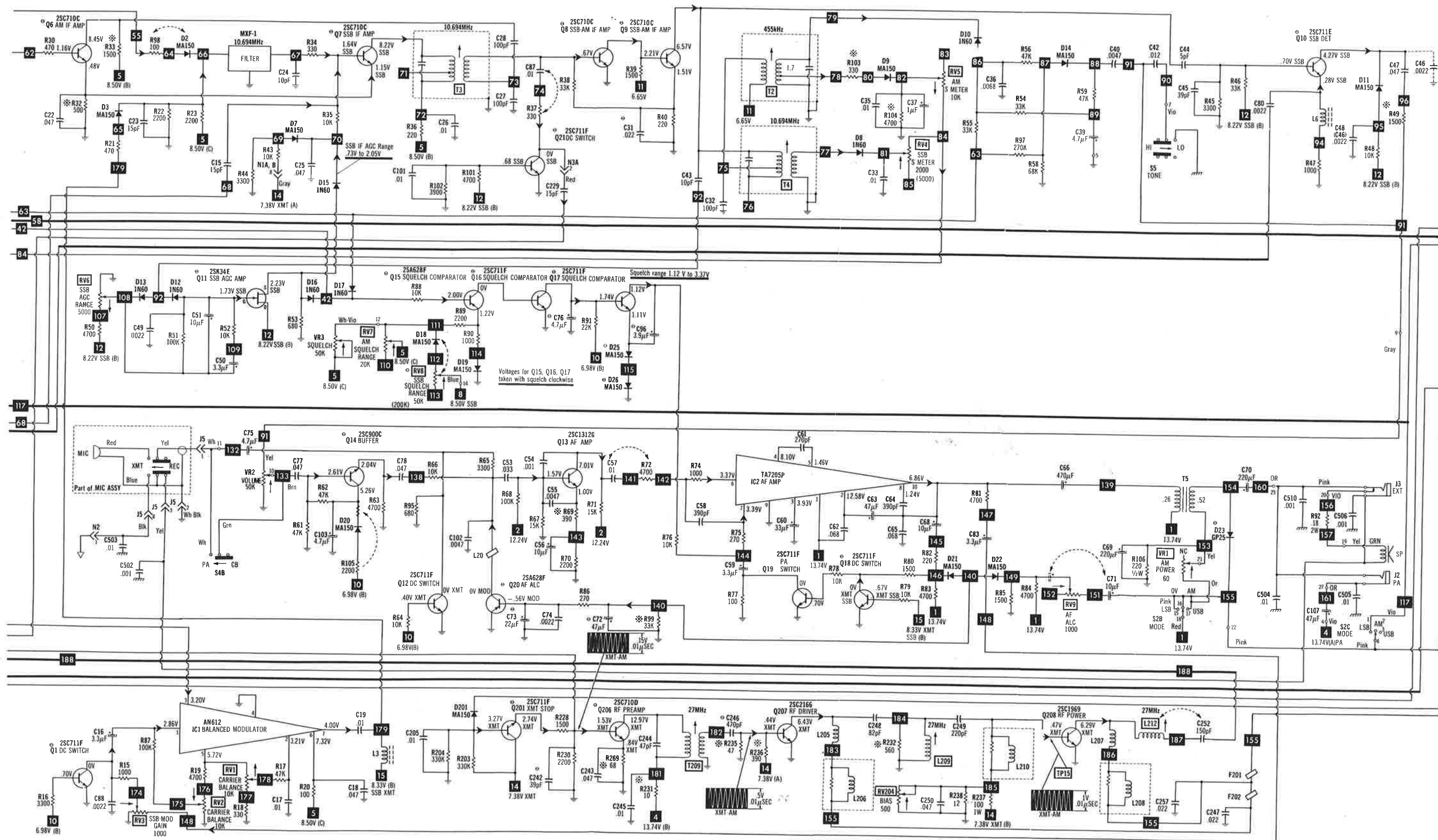
CHANNEL SELECTOR BOARD

R217
R210
R209
R214
R206
R208
R205
R207
R201
R202
R212
R204
R223
R203
R219

ANSMIT BOARD









PARTS LIST AND DESCRIPTION

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

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDEN No. 8782	(AWG24){4 colors}
Shielding Strap.....	Use BELDEN No. 8660	3/16" width)
Hook-up Wire (General Use).....	Use BELDEN No. 8524	(AWG22){13 colors}
Hook-up Wire (Shielded).....	Use BELDEN No. 8401	(Braided Shield){1 conductor}(AWG25)
	Use BELDEN No. 8421	(Spiral Shield){1 conductor}(AWG25)
	Use BELDEN No. 8737	(Spiral Shield){2 conductor}(AWG22)
Microphone Cable (Coiled)	Use BELDEN NO. 8491	{4 conductor-2 shielded }{6 ft.}(AWG23)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D2	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D3	MA150		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D4	MA150		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D5	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D6	MC301	05-320301	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D7	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D8	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D9	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D10	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D11	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D12	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D13	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D14	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D15	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D16	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D17	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D18	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D19	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D20	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D21	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D22	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D23	GP-25B	05-141025	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D24	GP-25B	05-141025	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D25	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D26	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D201	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D202	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D203	ITT310	05-200310			REN 612		ECG612	TM612		103-176
D204	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D205	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D206	MZ205	05-480205	GEZD-5,0		REN 135	SK3056/135A	ECG135A	TM135A	WEP1103	103-29006
D207	MC301	05-320301	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D208	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D209	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D210	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D211	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D212	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D213	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D216	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D217	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D218	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D219	MZ309	05-480309	GEZD-9,1	Z89,1B	REN 139	SK3060/139A	ECG139	TM139A/**	WEP1109	103-272
D220	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D221	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D222	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D223	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D224	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D225	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D226	MA150	05-330150	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D227	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D228	1N60	05-170060	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
IC	AN612	02-010612					ECG1249	TM1249		
IC2	TA7205P	02-257205	GEIC-179	PTC780	REN 1155	SK3231/1155	ECG1155	TM1155	WEP949	
IC201	C3001A				REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120	
	C3001T	02-373001			REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120	
IC202	C3001-0				REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120	
	C3001M	02-373001			REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120	
IC203	PLLO2A	02-360002	GEIC-317	PTC121	REN 1167	SK3732/1167	ECG1233	TM1233	WEP2007	
	PLLQ22		GEIC-317		REN 1167	SK3732/1167	ECG1233	TM1233	WEP2007	
Q1	25C711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	25C711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q2	25C711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	25C711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q3	25C710D	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q4	25C711E	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	25C711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q5	25C710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q6	25C710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q7	25C710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q8	25C710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q9	25C710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	25C710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q10	25C711E	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	25C711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q11	25K34E	01-540034	GE-FET-2*	PTC161*	REN 132*	SK3448	ECG312*	TM312*	WEP920*	121-756*
	25K34		GE-FET-2*	PTC161*	REN 132*	SK3448	ECG312*	TM312*	WEP920*	121-756*

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.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q12	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	GE-62*		PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972	
Q13	2SC1312G	01-031312	GE-62	PTC139*	REN 199	SK3245/199	ECG199	TM199	WEP66	121-972
Q14	2SC900C	01-030900	GE-62	PTC139*	REN 199	SK3250/199	ECG199	TM199/**	WEP66	121-972
	2SC900		GE-62	PTC139*	REN 199	SK3250/199	ECG199	TM199/**	WEP66	121-972
Q15	2SA628F	01-010628	GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*/**	WEP62	121-29003
Q16	2SA628		GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*/**	WEP62	121-29003
	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q17	2SC711	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SC711F		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q18	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q19	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q20	2SA719R	01-010719	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SA719		GE-269	PTC103*	REN 290	SK3114/290	ECG290	TM290/**	WEP911	121-1019
Q21	2SC711F	01-030711	GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911	121-952
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q201	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q202	2SC711E	01-030711	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199*/**	WEP372*	121-972
Q203	2SC710	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q204	2SC710	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q206	2SC710	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q207	2SC2166	01-032166	GE-215	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP736*	121-29039
Q208	2SC1969	01-031969	GE-216	PTC186	REN 236	SK3239/236	ECG236	TM236	WEP840	121-29040
Q209	2SC763C	01-030763	GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
	2SC763		GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
Q210	2SC710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q211	2SC710C	01-030710	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q212	2SA628F	01-010628	GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*/**	WEP62	121-29003
	2SA628		GE-69	PTC111	REN 153	SK3084	ECG153	TM153/**	WEP752	121-988-02
Q213	2SC711F	01-030711	GE-62*	PTC121	REN 199*	SK3245/199*	ECG199*	TM199*/**	WEP372*	121-972
	2SC711		GE-62*	PTC121	REN 199*	SK3245/199*	ECG199*	TM199*/**	WEP372*	121-972
Q216	2SD359	01-040359	GE-247	PTC110	REN 186A	SK3041	ECG186A	TM186A	WEP900	121-29008
	2SD360		GE-66	PTC167	REN 152	SK3054/196	ECG152	TM152	WEP745	121-987-02
Q217	2SD355	01-040355	GE-271	PTC143*	REN 297	SK3849/293	ECG297	TM297	WEP914	121-29014
Q218	2SD525	01-020525	GE-272	PTC177	REN 129	SK3450/298	ECG298	TM298	WEP915	121-29005
Q219	2SD355	02-040355	GE-271	PTC143*	REN 297	SK3849/293	ECG297	TM297	WEP914	121-29014
Q220	2SD525	01-020525	GE-272	PTC177	REN 129	SK3450/298	ECG298	TM298	WEP915	121-29005
Q224	2SC900U	01-030900	GE-62	PTC139*	REN 199	SK3250/199	ECG199	TM199/**	WEP66	121-972
	2SC900		GE-62	PTC139*	REN 199	SK3250/199	ECG199	TM199/**	WEP66	121-972

* Lead configuration may vary from original.

/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFG. PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C16	3.3 25V	03-030347		TDC335M035FL		SD35-3K39
C30	10 16V	03-030356		TDC106M025FL	QDT1-64	SD25-109
C37	1 50V	00-132055	PC1-50	VTT1A50	QV1-11	EV-1615
C38	3.3 25V	00-132465	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C39	4.7 25V	00-132600	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C50	3.3 25V	00-132465	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C51	10 16V	00-132115	PC10-25	VTT10B25	QV1-41	EV-1222
C52	47 16V	00-132630	PC50-16	VTT47016	QV1-73	EV-1226
C56	10 16V	00-132115	PC10-25	VTT10B25	QV1-41	EV-1222
C59	3.3 35V	03-003048		TDC335M035FL		SD35-3K39
C60	33 16V	00-132510	PC30-25	VTT33025	QV1-63	EV-1325
C63	47 16V	00-132630	PC50-16	VTT47016	QV1-73	EV-1226
C66	470 16V	00-132675	PC500-16	VTT470K16	QV1-151	EV-1251
C67	1000 16V	00-132210	PC1000-16	VTT1000L16	QV1-183	EV-1261
C68	10 16V	00-132115	PC10-25	VTT10B25	QV1-41	EV-1222
C69	220 16V	00-132380	PC250-25	VTT220H16	QV1-117	EV-1240
C70	220 16V	00-132380	PC250-25	VTT220H16	QV1-117	EV-1240
C71	10 16V	00-132115	PC10-25	VTT10B25	QV1-41	EV-1222
C72	3.3 25V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
	47 16V	00-132630	PC50-16	VTT47016	QV1-73	EV-1226
C73	33 10V		PC30-25	VTT33B10		EV-1225
	2.2 25V	00-132270	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C75	4.7 25V	00-132600	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C76	4.7 25V	00-132600	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C83	3.3 25V	00-132465	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C85	47 16V	00-132630	PC50-16	VTT47016	QV1-73	EV-1226
C96	3.9 25V	03-003051		TDC475M010EL	QDT1-48	SD10-4K79
C103	4.7 25V	00-132600	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C107	47 16V	00-132630	PC50-16	VTT47016	QV1-73	EV-1226
C201	10 16V	03-003056		TDC106M025FL	QDT1-64	SD25-109
C202	1 10V	03-003039		TDC105M035EL		SD35-19
C219	100 10V	00-132165	PC100-10	VTT100E10	QV1-93	EV-1131
C233	47 25V	00-132635	PC50-25	VTT47E25	QV1-77	EV-1426.1
C261	3.3 25V	00-132465	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C277	3.3 25V	00-132465	PC5-50	VTT3R3A50	QV1-25	EV-1618.1

PARTS LIST AND DESCR

(When ordering parts, state Model, Part

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	P
C282	1 50V	00-132
C284	10 16V	00-132
C286	1 50V	00-132
C297	1000 16V	00-132
C299	1 50V	
C303	33 10V	
C307	1 35V	03-003
C601	1 10V	

CAPACITORS

ITEM No.	RATING	MFC PART
C1	.0022 50V 10%	
C2	33 N150 50V	
	39 N150 50V 10%	
C3	150 N150 50V 10%	
C4	47 N150 50V 10%	
C5	.047 50V	
C6	10 N150 50V	
C7	33 N150 50V 10%	
C8	22 N150 50V	
C9	22 N150 50V	
C10	10 N150 50V	
C11	100 50V 10%	
C12	5 N150 50V	
C13	.01 50V	
C14	.022 50V 10%	
C15	15 N150 50V	
C17	.01 50V	
C18	.047 50V 10%	
C19	.01 50V	
C20	22 N150 50V	
C21	.01 50V	
C22	.047 50V	
C23	15 N150 50V	
C24	10 N150 50V	
C25	.047 50V	
C26	.01 50V	
C27	100 N150 50V 10%	
C28	100 N150 50V 10%	
C29	.022 50V 10%	
C31	.022 50V 10%	
C32	100 N150 50V 10%	
C33	.01 50V	
C35	.01 50V	
C36	.0068 50V	
C40	.0047 50V 10%	
C42	.012 50V 10%	
C43	10 N150 50V	
C44	5 N150 50V	
C45	39 N150 50V 10%	
C46	.0022 50V	
C47	.047 50V 10%	
C48	.0022 50V 10%	
C49	.0022 50V 10%	
C53	.033 50V 10%	
C54	.001 50V	
C55	.0047 50V	
C57	.01 50V 10%	
C58	390 50V 10%	
C61	270 50V	
C62	.068 50V 10%	
C64	390 50V 10%	
C65	.068 50V 10%	
C74	.0022 50V 10%	
C77A	.047 50V 10%	
C78	.047 50V	
C77B	.047 50V 10%	
C80	.0022 50V 10%	
C84	.0022 50V	
C86	.047 50V	
C87	.01 50V	
C88	.0022 50V	
C89	.01 50V	
C90	.01 50V	
C91	.01 50V	
C92	.01 50V	
C93	.047 50V	
C94	.047 50V	
C100	100 N150 50V 10%	
C101	.01 50V	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C282	1 50V	00-132055	PC1-50	VTT1A50	QV1-11	EV-1615
C284	10 16V	00-132115	PC10-25	VTT10B25	QV1-41	EV-1222
C286	1 50V	00-132055	PC1-50	VTT1A50	QV1-11	EV-1615
C297	1000 16V	00-132210	PC1000-16	VTT1000L16	QV1-183	EV-1261
C299	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C303	33 10V		PC30-25	VTT33B10		EV-1225
C307	1 35V	03-003039		TDC105M035EL		SD35-19
C601	1 10V			TDC105M035EL		SD35-19

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.0022 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C2	33 N150 50V			*		10TCP-Q33
	39 N150 50V 10%			*		10TCP-Q39
C3	150 N150 50V 10%			*		10TCP-T15
C4	47 N150 50V 10%			*		10TCP-Q47
C5	.047 50V			MAG5015		
C6	10 N150 50V			*		10TCP-Q10
C7	33 N150 50V 10%			*		10TCP-Q33
C8	22 N150 50V			*		10TCP-Q22
C9	22 N150 50V			*		10TCP-Q22
C10	10 N150 50V			*		10TCP-Q10
C11	100 50V 10%		GP100	GP310		10TS-T10
C12	5 N150 50V			*		10TCP-V50
C13	.01 50V			MAG50115		
C14	.022 50V 10%		DPMS2S22	MA2P2239R8	QFT2-127	1FT-S22
C15	15 N150 50V			*		10TCP-Q15
C17	.01 50V			MAG5011		
C18	.047 50V 10%		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C19	.01 50V			MAG5011		
C20	22 N150 50V			*		10TCP-Q22
C21	.01 50V			MAG5011		
C22	.047 50V			MAG5015		
C23	15 N150 50V			*		10TCP-Q15
C24	10 N150 50V			*		10TCP-Q10
C25	.047 50V			MAG5015		
C26	.01 50V			MAG5011		
C27	100 N150 50V 10%			*		10TCP-T10
C28	100 N150 50V 10%			*		10TCP-T10
C29	.022 50V 10%		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C31	.022 50V 10%		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C32	100 N150 50V 10%			*		10TCP-T10
C33	.01 50V			MAG5011		
C35	.01 50V			MAG5011		
C36	.0068 50V		WMF1D68	EWFA268	QFT2-73	1FT-D68
C40	.0047 50V 10%		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C42	.012 50V 10%		WMF1S15	M192P1539R8	QFT2-105	1FT-S15
C43	10 N150 50V			*		10TCP-Q10
C44	5 N150 50V			*		10TCP-V50
C45	39 N150 50V 10%			*		10TCP-Q39
C46	.0022 50V		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C47	.047 50V 10%		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C48	.0022 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C49	.0022 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C53	.033 50V 10%		DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C54	.001 50V			GP210		10TS-D10
C55	.0047 50V			GP247		5GA-D47
C57	.01 50V 10%		WMF1S1	EWFA1110	QFT2-91	1FT-S10
C58	390 50V 10%		GP339	GP390		10TS-T39
C61	270 50V		GP270	GP327		10TS-T27
C62	.068 50V 10%		WMF1S68	EWFA1A168	QF1-195	1PB-S68
C64	390 50V 10%		GP390	GP339		10TS-T39
C65	.068 50V 10%			WMF1S68	QFT1-195	1PB-S68
C74	.0022 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C77A	.047 50V 10%		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C78	.047 50V		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C77B	.047 50V 10%		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C80	.0022 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C84	.0022 50V			GP222		10TS-D22
C86	.047 50V			MAG5015		
C87	.01 50V			MAG5011		
C88	.0022 50V			GP222		10TS-D22
C89	.01 50V			MAG5011		
C90	.01 50V			MAG5011		
C91	.01 50V			MAG5011		
C92	.01 50V			MAG5011		
C93	.047 50V			MAG5015		
C94	.047 50V			MAG5015		
C100	100 N150 50V 10%			*		101CP-T10
C101	.01 50V			MAG5011		

MIDLAND MODEL 79-891

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C102	.0047 50V		GP4700	GP247		5GA-D47
C104	.01 50V			MAG5011		
C105A	.01 50V			MAG5011		
C106	.047 05V			MAG5015		
C203	.01 50V		MGP025	MAG5011		TG-S25
C204	.022 50V			TA125		
C205	.01 50V			MAG5011		
C206	33 N150 50V 10%			*		10TCP-Q33
C207	220 N150 50V 10%			*		10TCP-T22
C208	82 N150 50V 10%		DPM56D1	EWFA1A210	AFT2-1	10TCP-Q82
C209	.001 50V 10%			*		1FT-D10
C210	22 N150 50V			*		10TCP-Q22
C212	33 N150 50V 10%			*		10TCP-Q33
C213	12 N150 50V			*		10TCP-Q12
C214	.01 50V			MAG5011		
C215	27 N150 50V			*		10TCP-Q27
C216	.001 50V 10%		DPM56D1	EWFA1A210	QFT2-1	1FT-D10
C217	220 N150 50V 10%			*		10TCP-T22
C218	.0022 50V			GP222		10TS-D22
C220	.01 50V			MAG5011		
C221	100 N150 50V 10%			*		10TCP-T10
C222	.01 50V			GP210		10TS-D10
C223	.001 50V			GP210		10TS-D10
C224	.0018 50V 10%		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C225	2 N150 50V			*		10TCP-V22
C226	.01 50V			MAG5011		
C227	10 N150 50V			*		10TCP-Q10
C228	22 N150 50V 10%			*		10TCP-Q33
C229	15 N150 50V			*		10TCP-Q15
C230	82 N150 50V 10%			*		10TCP-Q82
C231	56 N150 50V 10%			*		10TCP-Q56
C232	.01 50V			MAG5011		
C234	.01 50V			MAG5011		
C235	3 N150 50V			*		10TCP-V30
C236	.01 50V			MAG5011		
C238	.01 50V			MAG5011		
C240	.01 50V			MAG5011		
C241	82 N150 50V 10%			*		10TCP-Q82
C242	39 N150 50V 10%			*		10TCP-Q39
C243	.047 50V			MAG5015		
C244	47 N150 50V 10%			*		10TCP-Q47
C245	.01 50V			MAG5011		
C246	470 NPO 50V		MGP025	TA125		TG-S25
C247	.022 50V			*		10TCP-Q82
C248	82 N150 50V 10%			*		10TCP-Q82
C249	220 NPO 50V			*		10TCP-Q82
C250	.047 50V			MAG5015		10TCP-Q68
C251	68 N150 50V 10%			*		10TCP-Q68
C252	150 NPO 50V			CN0315		10TCP-T15
C253	560 50V 10%			GP356		10TS-T56
C254	470 NPO 50V			*		
C255	270 NPO 50V			*		10TCP-T27
C257	.022 50V		MGP025	TA125	TG-S25	
C258	.01 50V			MAG5011		
C259	5 N150 50V			*		10TCP-V50
C260	33 N150 50V 10%			*		10TCP-Q33
C262	22 N150 50V			*		10TCP-Q22
C263	.01 50V			MAG5011		
C265	.01 50V			MAG5011		
C268	.01 50V			MAG5011		
C269	.01 50V			MAG5011		
C270	.01 50V			MAG5011		
C271	.01 50V			MAG5011		
C272	18 N150 50V			*		10TCP-Q18
C273	220 N150 50V 10%		GP4700	GP247		10TCP-T22
C274	.0047 50V			*		5GA-D47
C275	220 N150 50V 10%			MAG5011		10TCP-T22
C276	.01 50V			*		
C278	82 N150 50V 10%			*		10TCP-Q82
C279	2 N150 50V			*		10TCP-V22
C280	.01 50V			MAG5011		
C281	.01 50V			MAG5011		
C283	.01 50V			MAG5011		
C285	.01 50V			MAG5011		
C287	3 N150 50V			*		10TCP-V30
C288	.047 50V			MAG5015		
C289	.022 50V		MGP025	TA125	TG-S25	
C290	.022 50V		MGP025	TA125	TG-S25	
C291	.047 50V			MAG5015		
C292	.047 50V			MAG5015		
C293	15 N150 50V			*		10TCP-Q15
C294	15 N150 50V			*		10TCP-Q15
C298	.01 50V			MAG5011		
C302	.022 50V			TA125		TG-S25
C304	.01 50V			MAG5011		
C501	.01 50V			MAG5011		
C502	.001 50V			GP210		10TS-D10
C503	.01 50V			MAG5011		
C504	.01 50V			MAG5011		
C505	.01 50V			MAG5011		
C506	.001 50V			GP210		10TS-D10
C507	.047 50V			MAG5015		
C508	.047 50V			MAG5015		
C510	.001 50V			GP210		10TS-D10
CT1	20					
CT2	20					
CT201	20					
CT202	20					
CT203	20					

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFGR. PART No.	MALLORY PART No.	TRW PART No.
RV1	Carrier Balance	10K	79-164016		U260R103B
RV2	Carrier Balance	10K	79-164016		U260R103B
RV3	SSB Modulation Gain	1000	79-164003		U260R102B
RV4	SSB S Meter	2000	13-164133		U260R252B
RV5	AM S Meter	10K	13-164132		U260R103B
RV6	SSB AGC	5000	79-164002		U260R502B
RV7	AM Squelch Range	20K	13-164134		U260R253B
RV8	SSB Squelch Range	50K	77-164013		U260R503B
RV9	AF ALC	1000	79-164003		U260R102B
RV2D1	SSB RF ALC	5000	79-164017		U260R502B
RV202	RF	20K	13-164134		U260R253B
RV204	Bias	500	79-164018	MTC52L1 (2)	X201R501B (2)
VR1	AM Power	6 5W	78-166001		
VR2	Volume/Power Switch	50K	79-160005	RU54A,SL36,SD1500,US41	BU2 (1),CF63,SS1,GC
VR3	Squelch	50K	79-160006	RU54A,SL36,SL1500	BU2 (1),CF63,SS1,DC1
VR5	Clarifier	50K	78-160006	RU54A,SL36,SL1500	BU2 (1),CF63,SS1,DC1

(1) Enlarge mounting hole.

(2) Cut off one of the end terminals and bend to fit PC board.

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.
RA1	Resistor Array	(1)		RA2	Resistor Array	(1)	

(1) Consists of seven 1800 ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (8.2uH)	79-176031			
L3	RF Choke (150uH)	79-176032			
L4	RF Choke		(150uH)		
L5	RF Choke		(150uH)		
L6	RF Choke (150uH)	79-176032			
L7	RF Choke	79-176033			
L8	RF Choke	79-176033			
L202	RF Choke (2.2uH)	13-176564	02.2F	74F226AP	
L203	RF Choke (68uH)	13-178210	680W		
L204	RF Choke	79-176034			
L205	RF Choke	13-178209			
L206	RF Choke	79-176035			
L207	RF Choke	13-178209			
L208	RF Choke	79-176035			
L209	RF Driver (27MHz)	79-178003			
L210	RF Choke	79-176033			
L212	RF Power (27MHz)	79-178005			
L213	Pi Filter	79-178006			
L214	Antenna Matching (27MHz)	79-178007			
L215	RF Choke (68uH)	13-178210	680X		
T1	AM IF (455KHz)	79-090005	10LA		
T2	AM IF (455KHz)	79-090013	10LA, 023S		
T3	SSB IF (10.694MHz)	79-090003	10MA, 015S		
T4	SSB IF (10.694MHz)	79-090003	10MA, 015S		
T201	Oscillator (20MHz)	79-090014	10DB, 002S		
T202	VCO/Mixer (37MHz)	13-090405			
T203	VCO/Mixer (37MHz)	76-176001	10MB, 005S		
T204	RF Amp (27MHz)	79-176002	10CA, 006		
T205	RF Amp (27MHz)	13-176511	10CB, 003		
T206	REC Antenna (27MHz)	13-094234	10MP, 003S		
T207	Noise Amp	79-176036	M 07H 18L		
T208	Mixer (10.695MHz)	79-176036	MA 07H 18L		
T209	RF Preamp (27MHz)	79-176004			

MIDLAND MODEL 79-891

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.	
CH	2.4A	.23	3.3mH	13-178234 LJ119H004W (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	32	8	79-096003 TBH28B001W (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 1/2" PM 8 ohms	77-060001	3A05Z8R	

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	
F1	3A Quick Acting	13-204013	(1)	AGC3	HRK	312003	150145	FG3-2	

(1) Part of D.C. Power Cord.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	79-179002	455KHz (Ceramic)
F201	Ferrite Bead	79-050001	
F202	Ferrite Bead	79-050001	
F203	Ferrite Bead	79-050001	
J1	Jack	77-159030	Antenna
J2	Jack	77-159031	PA
J3	Jack	77-159031	EXT
J4	Jack	13-159235	D.C. Power (3 Pin)
J5	Jack	13-159234	MIC (4 Pin)
LED301	L.E.D.	79-202002	Channel Readout Tens & Units (each segment of LED301 supplied with 1.95 V. @ 6.5mA.)
M1	Meter	79-200003	S/R
MXF1	Filter	79-179005	10.6935MHz (MCF SCM-107A SDK)
MXF2	Filter	79-179006	10.695MHz
N1B	Jack	79-159004	PC Board (9 Pin)
N2B	Jack	79-159005	PC Board (12 Pin)
N3B	Plug	79-159006	PC Board (6 Pin)
N4B	Jack	79-159004	PC Board (9 Pin)
PL1	Lamp		Meter (4.80V @ 60mA (Part of Meter Assembly))
S2	Switch	79-183003	USB /AM/USB
S4	Switch	79-183001	PA/CB
S5	Switch	79-183001	Tone Hi/Lo
S6	Switch	79-183001	Local/DX
SW1	Switch	79-180007	Channel Selector
X1	Crystal	77-128012	(10.695MHz)
X201	Crystal	77-128013	(10.240MHz)
X202	Crystal	77-128014	(10.0525MHz)
	Cord	79-034001	D.C. Power
	Jack	79-159008	PC Board (6 Pin)
	Plug	79-159007	PC Board (9 Pin)
	P.C. Board	79-070003	(Flexible) (LED to Ch.Sel. Switch Board)(PTSW046COX)
	P.C. Board	79-075007	Channel Selector/LED Assembly
	P.C. Board	79-075005	Main (PT-BM071COX) Assembly
	P.C. Board	79-075006	RF (PT-RF003DOX) Assembly

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

ITEM	PART No.	ITEM	PART No.
Case Bottom	79-013005	Knob, Channel Select	77-115018
Case Front (Escutcheon)	79-010009	Knob, Volume, Squelch, Clarifier, Mode	77-110004
Case Top	79-010010		