

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

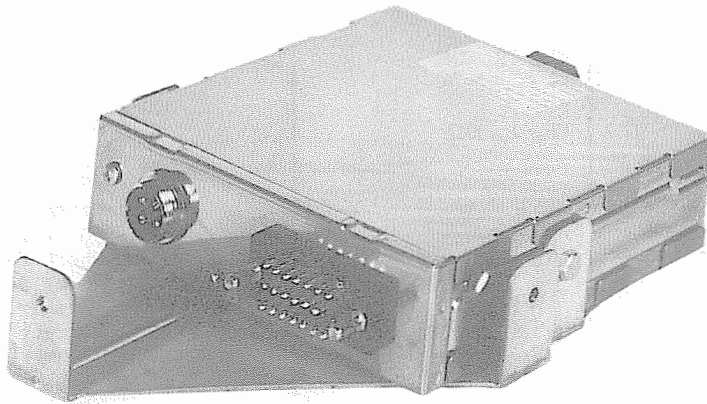
NOTE

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.



DELCO MODEL 80BCB2

MODEL 80BCB2 (16003560)
(CBD20B)

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

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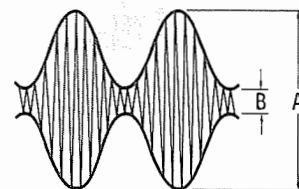
ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.8-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter. Connect microphone.

Suggested Alignment Tools:

GC ELECTRONICS:

CT1, CT2 8276, 5000
T1, T5, T6 9440
L4, L8, L9 9304, 9300, 9302
T2, T3, T4, T7, T8 5009, 8728A, 8728



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

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (IC1 Pin 2).	Ch. 19	CT1	Adjust for 10.240MHz $\pm$ 50Hz.
Input of DC meter to TP8.	Ch. 1	T1	Adjust for 2.0V $\pm$ 0.1 volt. Check for approx. 4.2 volts on channel 40.
	Ch. 1, XMT	CT2	Adjust for 2.0V $\pm$ 0.1 volt. Check for approx. 3.9 volts on channel 40.
Input of frequency counter to TP2 (IC3 Pin 3).	Ch. 1		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP3 (T2 Secondary).	Ch. 19, XMT	T2	Adjust for maximum.
Input of frequency counter to TP3 (T2 Secondary).	Ch. 1, XMT		Check for 26.965MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP4 (IC1 Pin 8).	Ch. 1		Check for 6.030MHz. Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1, XMT		Check for 3.2425MHz. Check all channels. (See Truth Chart for correct frequencies.)

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. Squelch MINIMUM.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP5 (Q11 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T8	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T7, T6, T5, T4	Adjust for maximum output. If necessary readjust T8.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	RV1	SQUELCH RANGE Adjust so squelch just breaks.

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
Input of RF wattmeter to antenna input.	Ch. 19	T3,L4,L8,L9	Adjust for maximum.
	Ch. 19	L4	Turn clockwise for 4.4 watts
	Ch. 19	L9	Turn counterclockwise for 3.8 watts.

TRANSMITTER ADJUSTMENTS

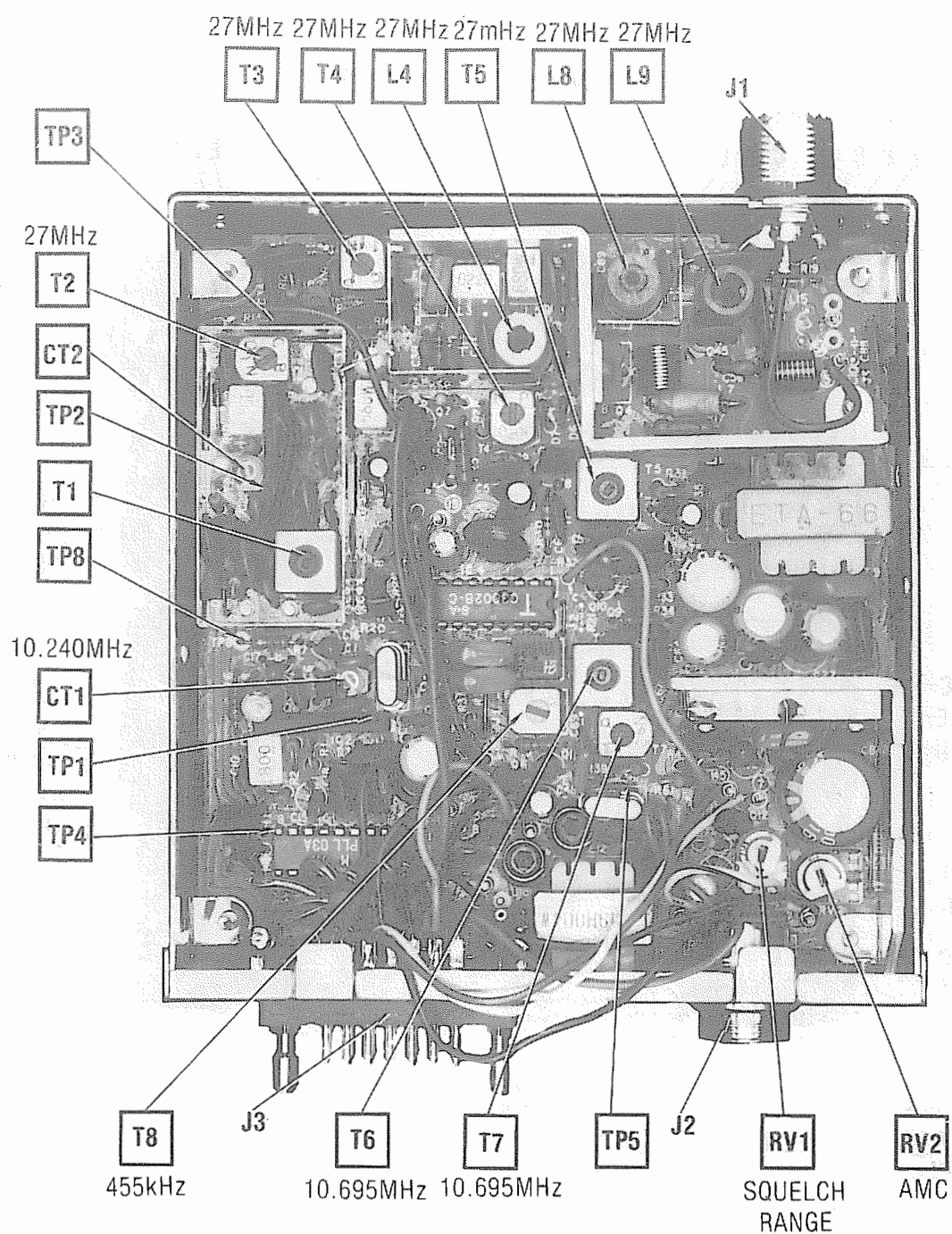
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 20mV signal at Mic input.	Ch. 19	RV2	AMC Adjust for 90% modulation. (See Figure 1.)

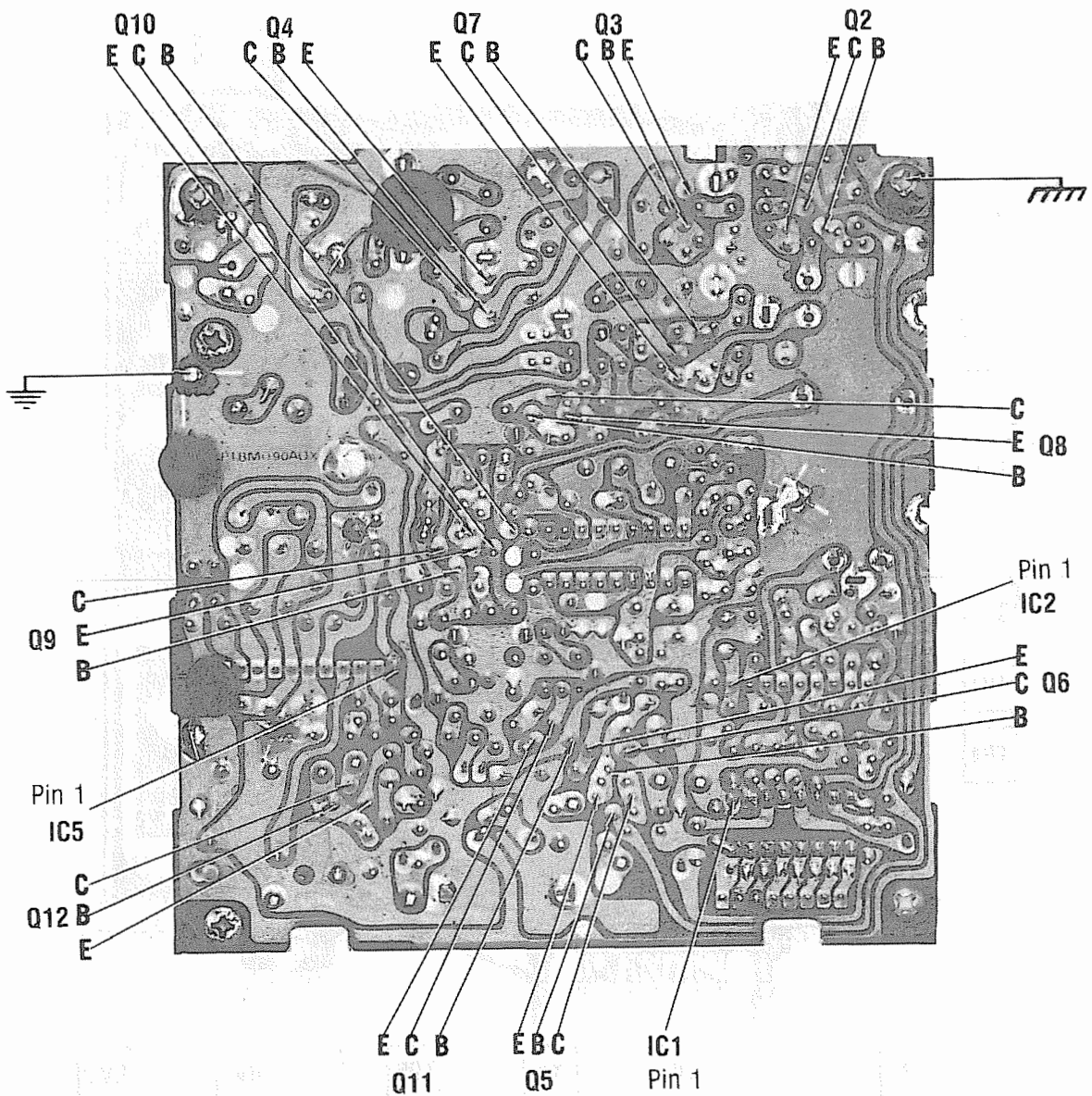
DELCO MODEL 808CB2

TRUTH CHART

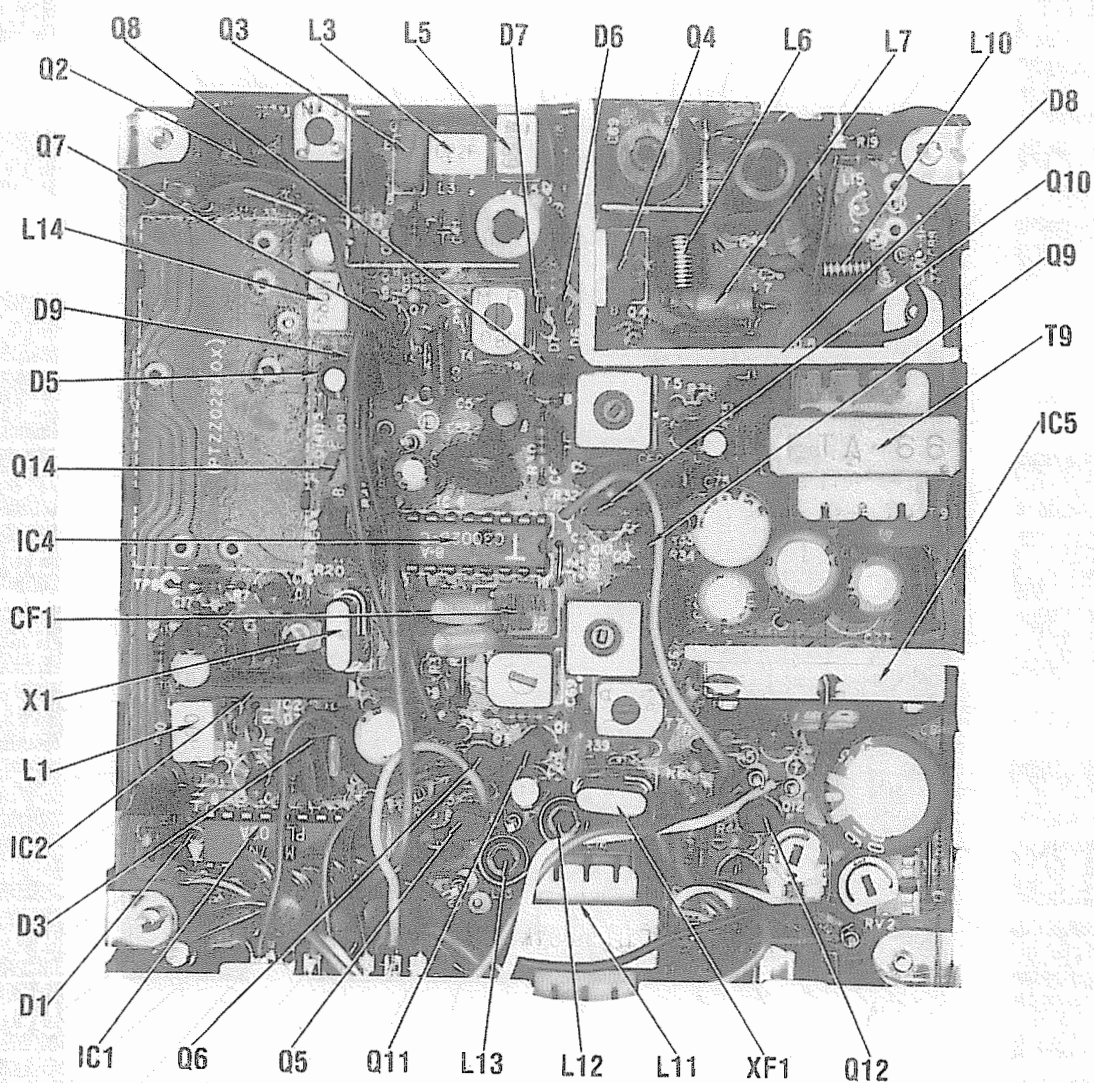
CHANNEL	1 = 5.95 Volts 0 = 0 Volts								REC VCO OUTPUT IN MHz AT TP2 (IC3,Pin 3)	XMT SYNTHESIZER OUTPUT IN MHz AT TP3 (T2 Secondary).	REC DIVIDER INPUT IN MH AT TP4 (IC1,Pin 8)	XMT DIVIDER INPUT IN MHz AT TP4 (IC1,Pin 8)
	IC1 PROGRAM DIVIDER											
	PINS											
	9	10	11	12	13	14	15					
1	1	0	0	1	0	1	0		16.270	26.965	6.030	3.2425
2	1	0	0	1	0	0	1		16.280	26.975	6.040	3.2475
3	1	0	0	1	0	0	0		16.290	26.985	6.050	3.2525
4	1	0	0	0	1	1	0		16.310	27.005	6.070	3.2625
5	1	0	0	0	1	0	1		16.320	27.015	6.080	3.2675
6	1	0	0	0	1	0	0		16.330	27.025	6.090	3.2725
7	1	0	0	0	0	1	1		16.340	27.035	6.100	3.2775
8	1	0	0	0	0	0	1		16.360	27.055	6.120	3.2875
9	1	0	0	0	0	0	0		16.370	27.065	6.130	3.2925
10	0	1	1	1	1	1	1		16.380	27.075	6.140	3.2975
11	0	1	1	1	1	1	0		16.390	27.085	6.150	3.3025
12	0	1	1	1	1	0	0		16.410	27.105	6.170	3.3125
13	0	1	1	1	0	1	1		16.420	27.115	6.180	3.3175
14	0	1	1	1	0	1	0		16.430	27.125	6.190	3.3225
15	0	1	1	1	0	0	1		16.440	27.135	6.200	3.3275
16	0	1	1	0	1	1	1		16.460	27.155	6.220	3.3375
17	0	1	1	0	1	1	0		16.470	27.165	6.230	3.3425
18	0	1	1	0	1	0	1		16.480	27.175	6.240	3.3475
19	0	1	1	0	1	0	0		16.490	27.185	6.250	3.3525
20	0	1	1	0	0	1	0		16.510	27.205	6.270	3.3625
21	0	1	1	0	0	0	1		16.520	27.215	6.280	3.3675
22	0	1	1	0	0	0	0		16.530	27.225	6.290	3.3725
23	0	1	0	1	1	0	1		16.560	27.255	6.320	3.3875
24	0	1	0	1	1	1	1		16.540	27.235	6.300	3.3775
25	0	1	0	1	1	1	0		16.550	27.245	6.310	3.3825
26	0	1	0	1	1	0	0		16.570	27.265	6.330	3.3925
27	0	1	0	1	0	1	1		16.580	27.275	6.340	3.3975
28	0	1	0	1	0	1	0		16.590	27.285	6.350	3.4025
29	0	1	0	1	0	0	1		16.600	27.295	6.360	3.4075
30	0	1	0	1	0	0	0		16.610	27.305	6.370	3.4125
31	0	1	0	0	1	1	1		16.620	27.315	6.380	3.4175
32	0	1	0	0	1	1	0		16.630	27.325	6.390	3.4225
33	0	1	0	0	1	0	1		16.640	27.335	6.400	3.4275
34	0	1	0	0	1	0	0		16.650	27.345	6.410	3.4325
35	0	1	0	0	0	1	1		16.660	27.355	6.420	3.4375
36	0	1	0	0	0	1	0		16.670	27.365	6.430	3.4425
37	0	1	0	0	0	0	1		16.680	27.375	6.440	3.4475
38	0	1	0	0	0	0	0		16.690	27.385	6.450	3.4525
39	0	0	1	1	1	1	1		16.700	27.395	6.460	3.4575
40	0	0	1	1	1	1	0		16.710	27.405	6.470	3.4625



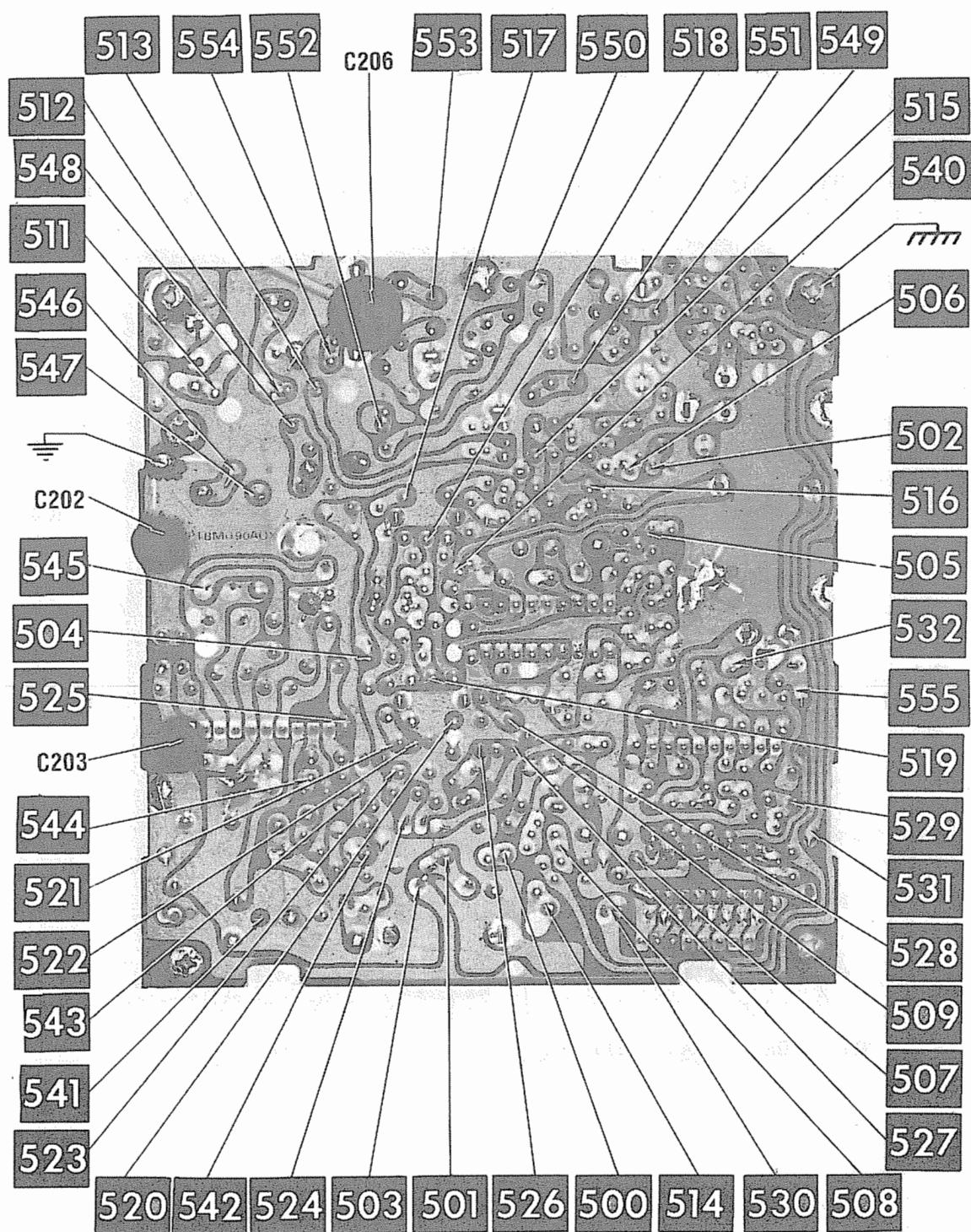
CHASSIS - BOTTOM



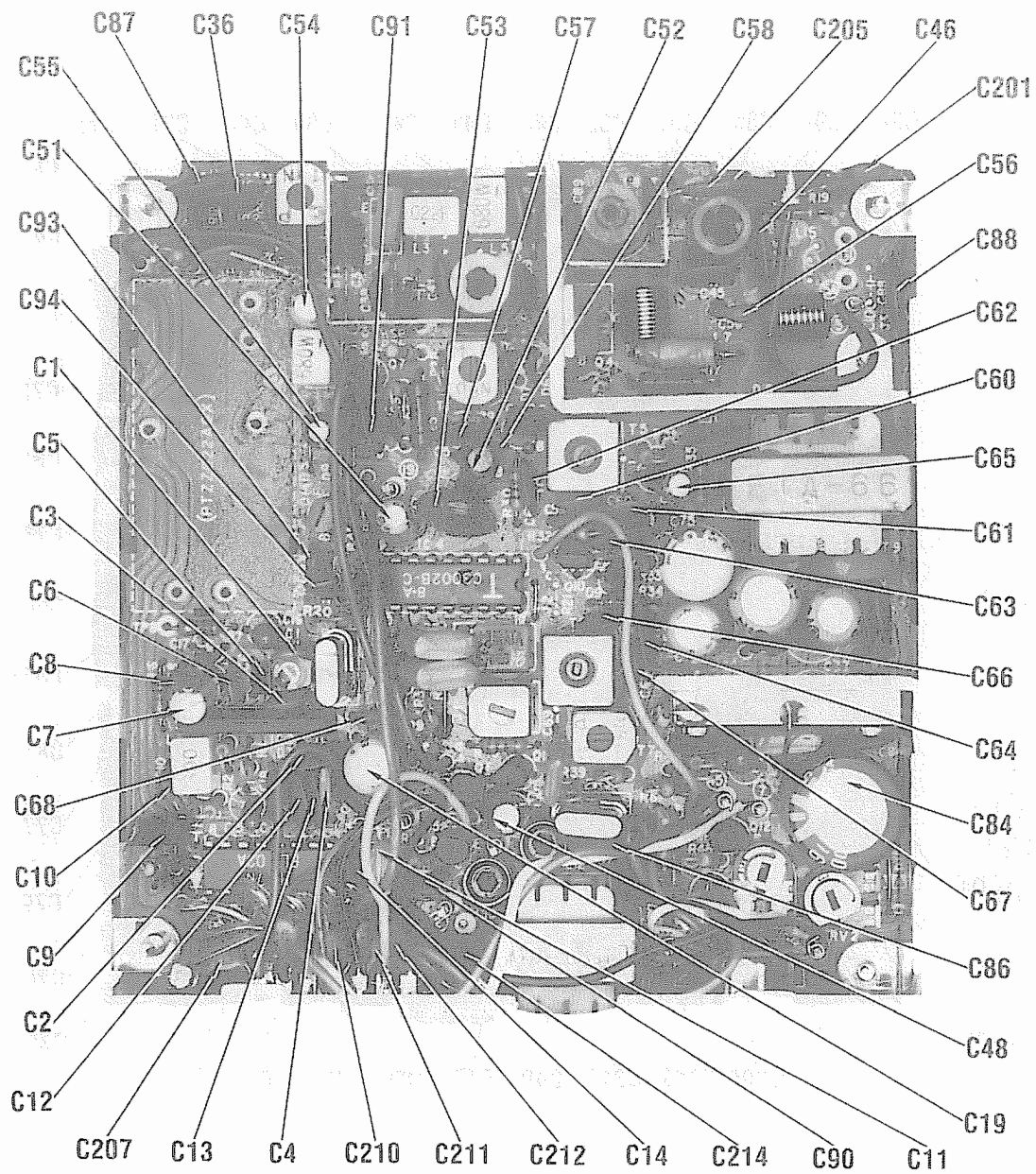
MAIN BOARD



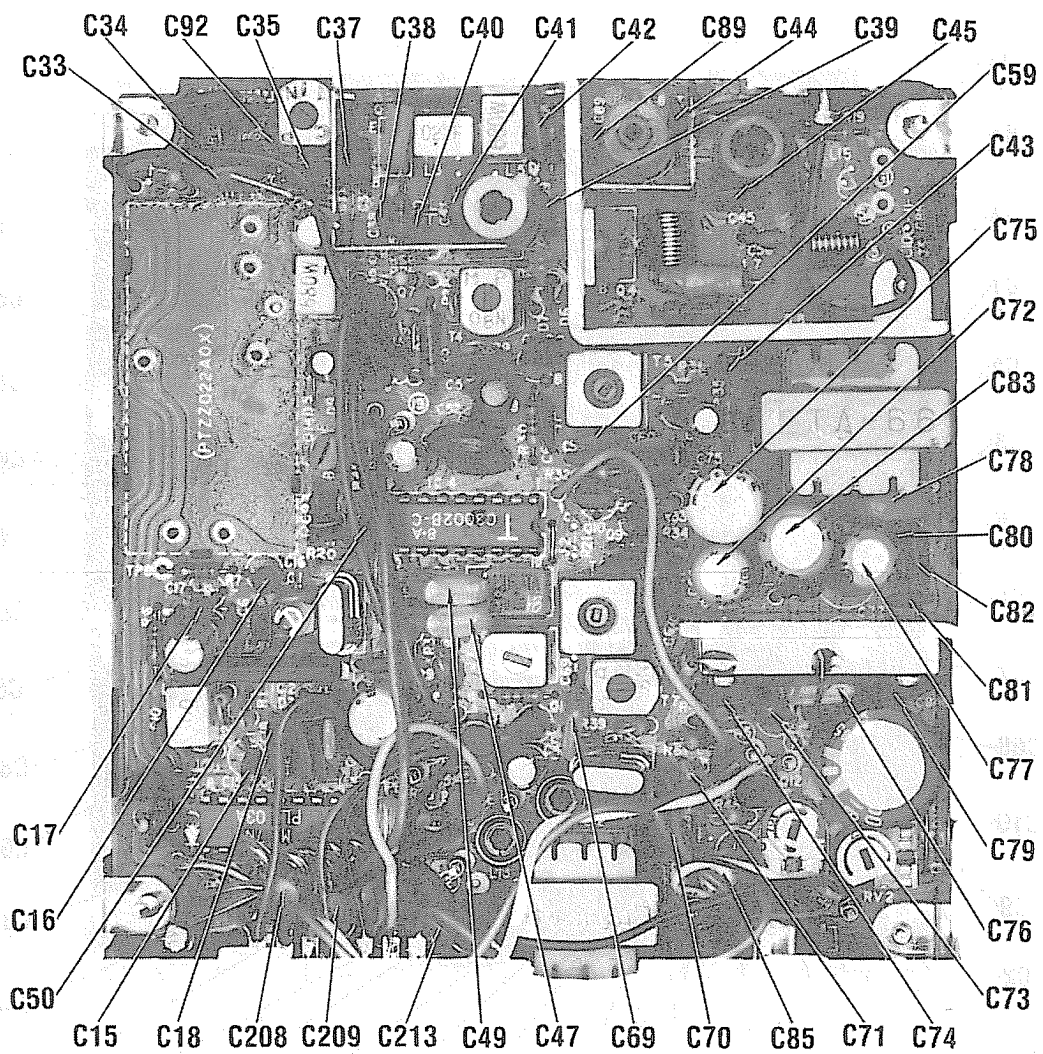
MAIN BOARD



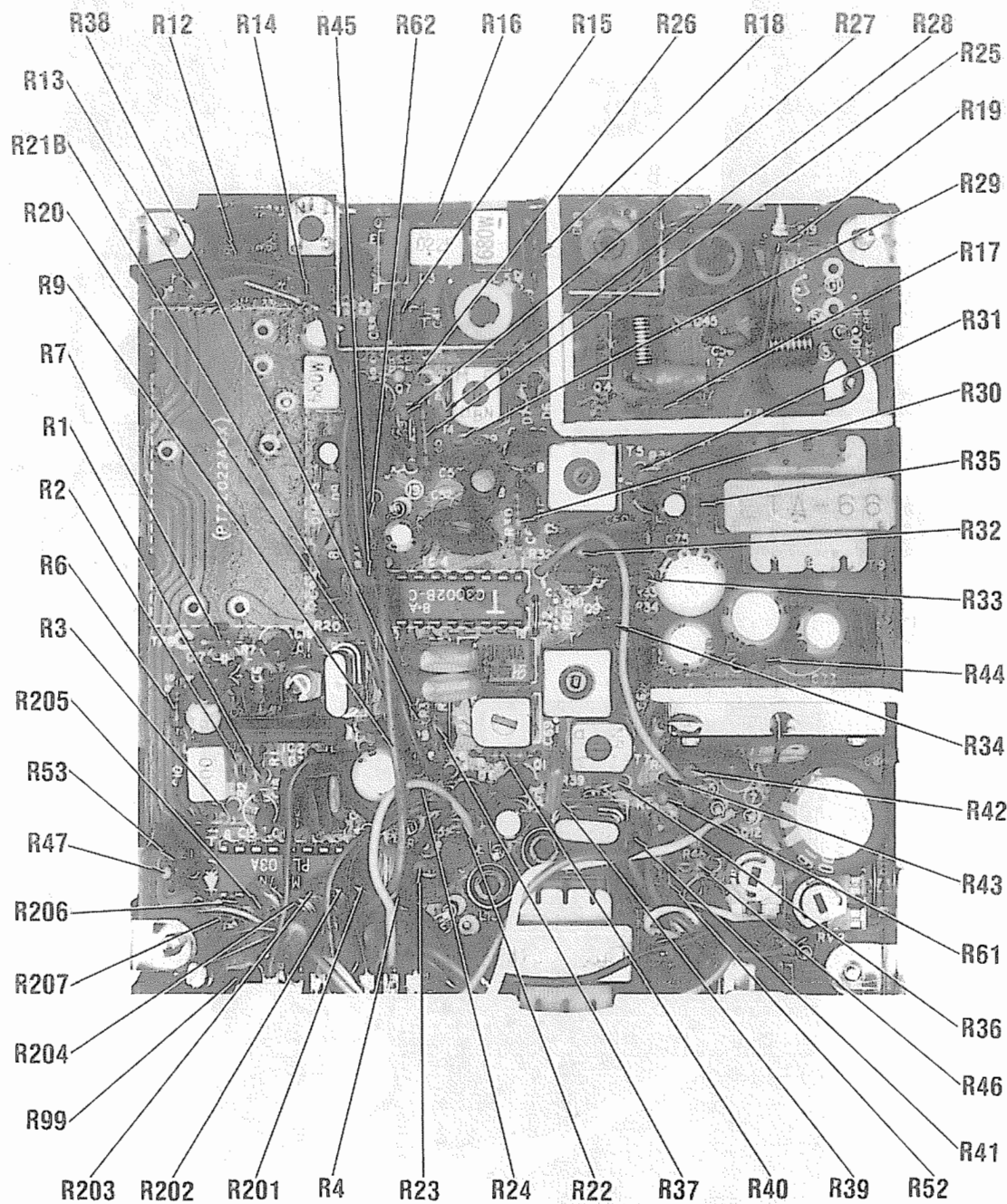
MAIN BOARD



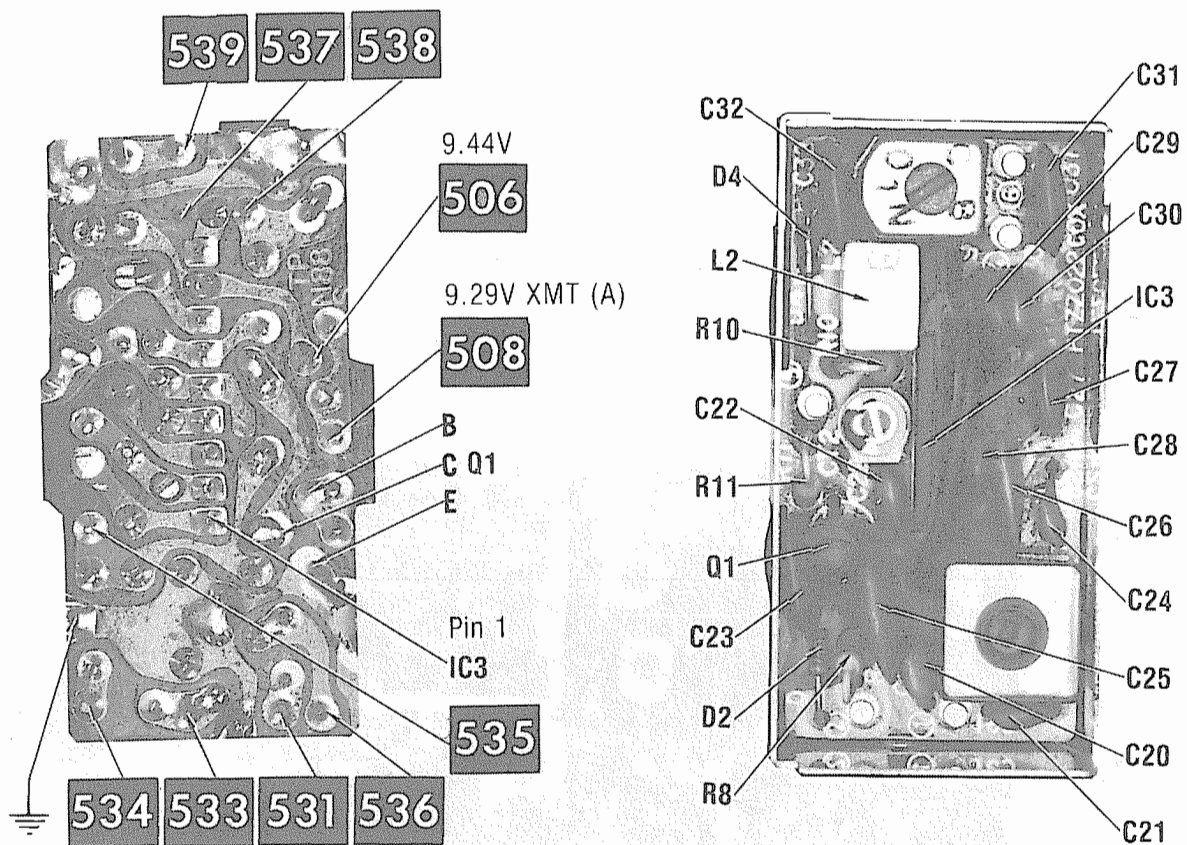
MAIN BOARD



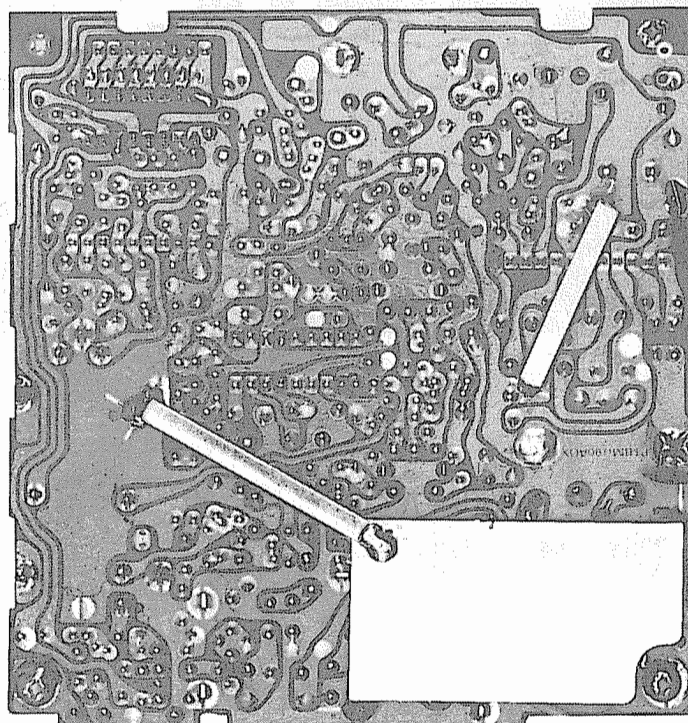
MAIN BOARD



MAIN BOARD



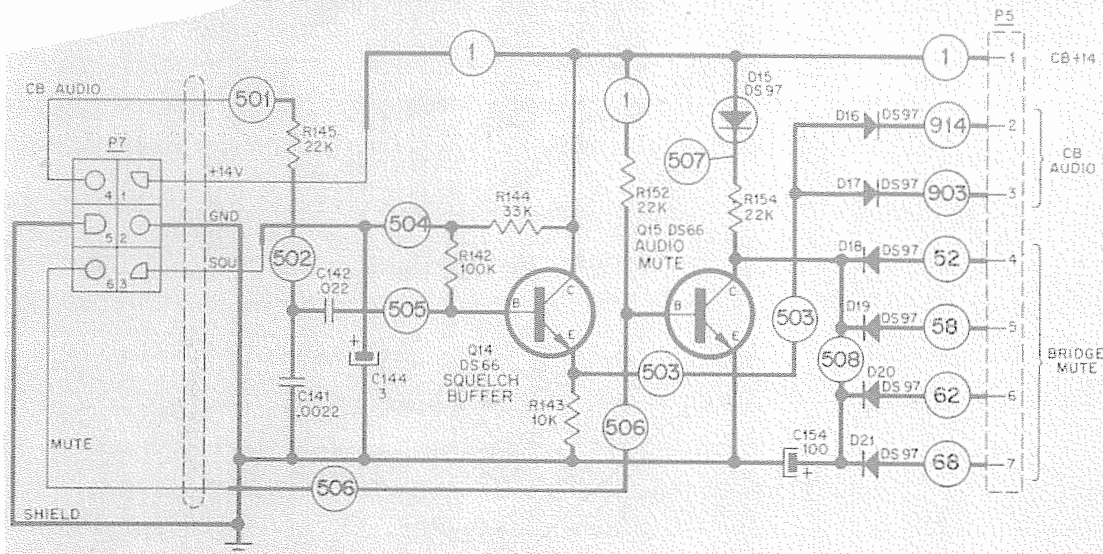
VCO BOARD



SHIELD LOCATION

SCHEMATIC

INTERCONNECTING BOARD

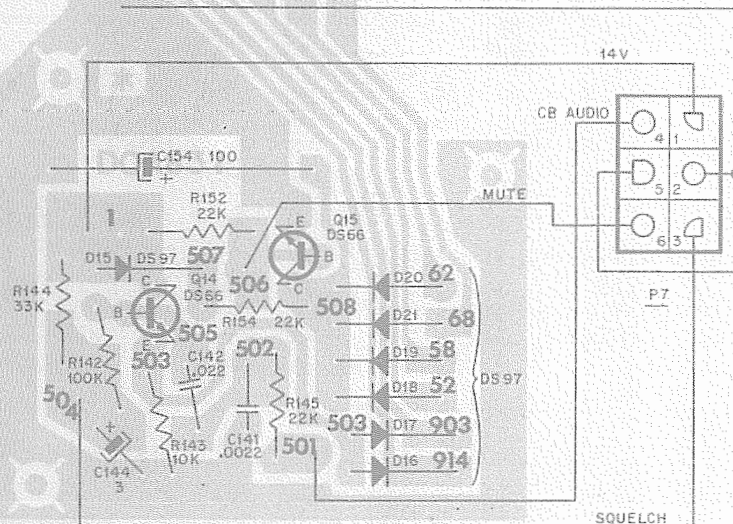


DELCO MODEL 30BCB2

SERVICE AIDS

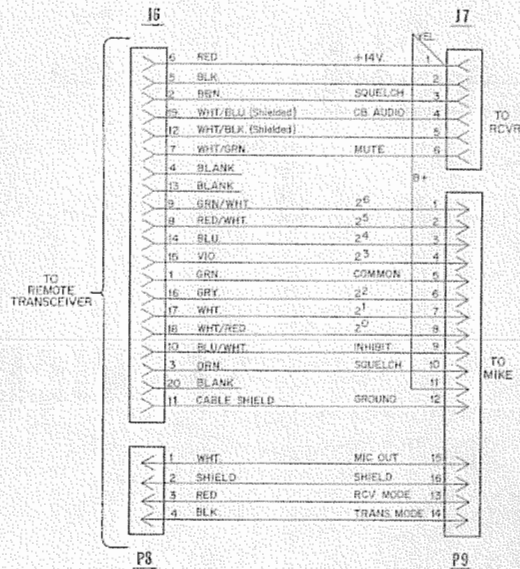
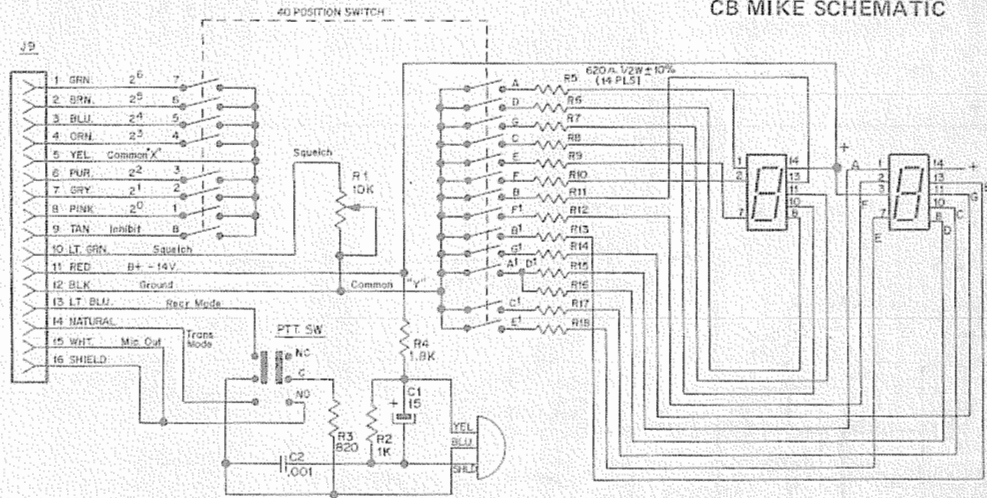
INTERCONNECTING BOARD

CB +14	CB AUDIO	BRIDGE MUTE	
1	2	3	4
5	6	7	8
9	10	11	12



Courtesy of the Manufacturer

CB MIKE SCHEMATIC



INTERCONNECTING HARNESS 16000870

CONDUCTOR PIN NO.	WIRE COLOR
11	RED
1	GREEN

6	PURPLE
8	PINK
3	BLUE
7	GREY
5	YELLOW
2	BROWN
4	ORANGE

9	TAN
12	BLACK
16	SHIELD
10	LIGHT GREEN
14	NATURAL
13	LIGHT BLUE
15	WHITE

CIRCUIT BOARD (COMPONENT SIDE)

Courtesy of the Manufacturer



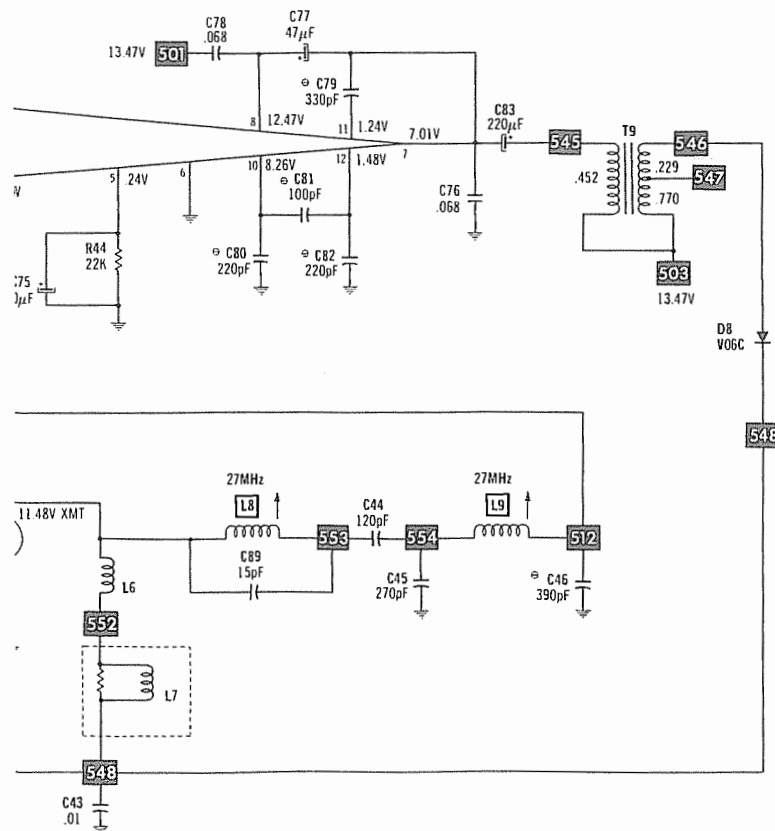
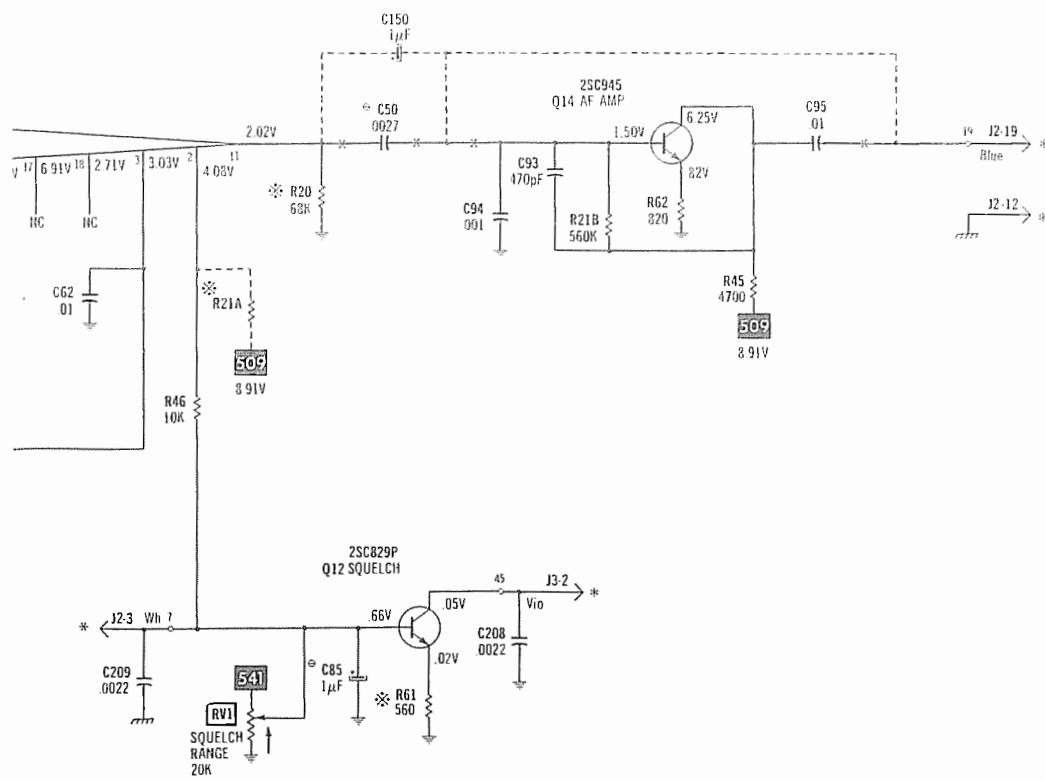
- Measurements made in Channel 1 with switching as shown unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates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

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DELCO MODEL 80BCB2

SEMICONDU

ITEM No.	TYPE No.
D1	1S1555
D2	1T7410
D3	
D4	1S1555
D5	
D6	1S1555
D7	1S1555
D8	V06C
D9	1S1555
IC1	PLL03A
IC2	C3001A
IC3	C3001A
IC4	C3002B-C
IC5	C2001A
Q1	25C710
Q2	25C710
Q3	25C1846
Q4	25C1306
Q5	25A7190
Q6	25C829P
Q7	25C1318P
Q8	25C460
Q9	25C710
Q10	25C710
Q11	25C710
Q12	25C828P
Q14	25C945

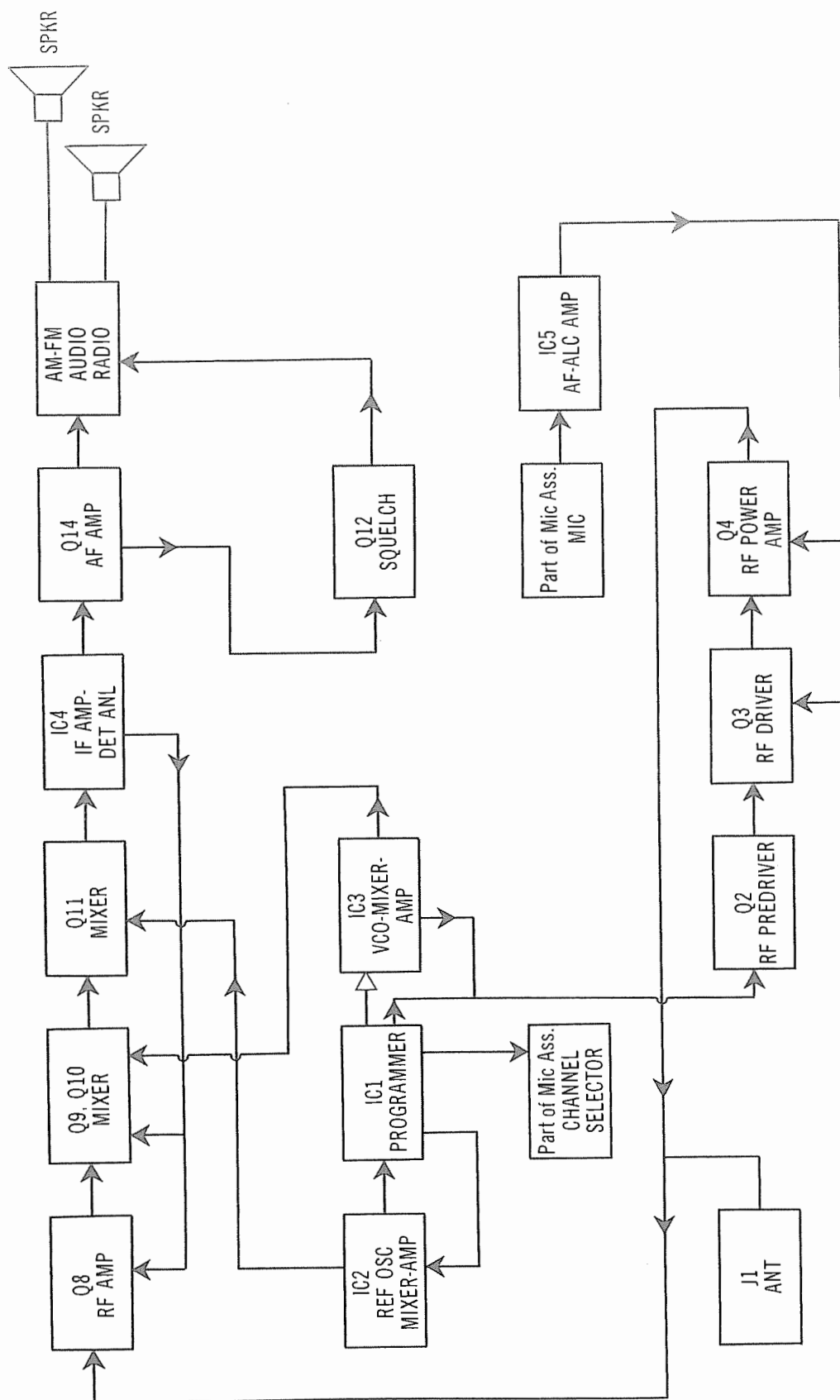
ELEK

ITEM No.
C7
C15
C16
C17
C19
C48
C51
C52
C54
C55
C65
C72
C73
C75
C77
C83
C84
C85

* /

CAF

ITE/ No
C1
C2
C3
C4
C5
C6
C8
C9
C10
C11
C12
C13
C14
C18



BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION
(When ordering parts, state Model, Part Number, and Description.)

PAR
(When

CAF

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1S1555	1223930	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D2	1T4110	1223925			HEPR2502	REN 612			ECG612			103-176
D3			GEZD-6.2	ZB6.2B		REN 137	SK3058	RT-237	ECG137A	TM137/**	WEP1154	103-29008
D4	1S1555	1223930	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D5			GEZD-9.1	ZB9.1B		REN 139	SK3060	RT-240	ECG139A	TM139/**	WEP1109	103-272
D6	1S1555	1223930	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D7	1S1555	1223930	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D8	V06C	1223929	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	122-76-02
D9	1S1555	1223930	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
IC1	PL103A	1224275										
IC2	C3001A	1224076				REN 1192	SK3445		ECG1192			
IC3	C3001A	1224076				REN 1192	SK3445		ECG1192			
IC4	C3002B-C	1224276										
IC5	C2001A	1224277										
Q1	2SC710	1224077	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A/**	WEP710	121-29000A
Q2	2SC710	1224077	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A/**	WEP710	121-29000A
Q3	2SC1846	1224078	GE-336	PTC904		REN 295	SK3253		ECG295	TM295	WEP913	121-880
Q4	2SC1306	1223918	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235/**	WEP785	121-29039
Q5	2SA719Q	1224081	GE-269	PTC103*	HEPS0019*	REN 290	SK3114	RT-305	ECG290	TM290/**	WEP911	121-1019
Q6	2SC829P	1224085	GE-20*	PTC139*	HEPS0015*	REN 229*	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
Q7	2SC1318P	1224079	GE-210	PTC123	HEPS0015*	REN 297	SK3122	RT-302	ECG297	TM297	WEP59*	121-1007
Q8	2SC460	1224278	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q9	2SC710	1223911	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A/**	WEP710	121-29000A
Q10	2SC710	1223911	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A/**	WEP710	121-29000A
Q11	2SC710	1223911	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A/**	WEP710	121-29000A
Q12	2SC828P	1224085	GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	TM199/**	WEP828	121-972
O14	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972

* Lead configuration may vary from original.
/** Also available as exact type replacement.

ITEM
No.

REPLACEMENT DATA							
ITEM No.	RATING	MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
					Q-LINE	GENERAL LINE	
C7	1 50V	1224010	PC1-50	VTT1A50	QV1-11	EV-1615	
C15	1 25V			TDC105M035EL		S035-19	
C16	10 10V			TDC106M025FL	Q0T1-64	S025-109	
C17	1 25V		PC1-50	VTT1A50	QV1-9	EV-1315	
C19	47 25V	1224033	PC50-25	VTT47E25	QV1-75	EV-1326	
C48	10 15V		PC10-25	VTT10B25	QV1-41	EV-1222	
C51	22 10V	1224293	PC25-25	VTT22B16	QV1-55	EV-1224	
C52	10 16V	1223976	PC10-25	VTT10B25	QV1-41	EV-1222	
C54	47 10V	1224015	PC50-16	VTT47016	QV1-73	EV-1226	
C55	10 16V	1223976	PC10-25	VTT10B25	QV1-41	EV-1222	
C65	10 16V	1223976	PC10-25	VTT10B25	QV1-41	EV-1222	
C72	47 25V	1224297	PC50-25	VTT47E25	QV1-75	EV-1326	
C73	4.7 25V			TDC475M035FL	Q0T1-49	S035-47R9	
C75	330 16V		WBR300-35*	VTT330H16	QV1-133	EV-1245	
C77	47 25V	1224297	PC50-25	VTT47E25	QV1-75	EV-1326	
C83	220 16V	1224021	PC250-25	VTT220H16	QV1-117	EV-1240	
C84	1000 16V	1224299	PC1000-16	VTT1000L16	QV1-163	EV-1260	
C85	1 50V	1224010	PC1-50	VTT1A50	QV1-11	EV-1615	

* Axial replacement for radial device.

C20
C21

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	33 N150 50V 10%	1223990			*		10TCP-Q33
C2	.330 50V 10%		0D-331	GP330	GP333		10TS-T33
C3	68 N150 50V 10%	1224013			*		10TCP-Q68
C4	1000 50V 10%			DPMS601	EWF1A210	QFT2-1	1FT-D10
C5	1000 50V 10%			DPMS601	EWF1A210	QFT2-1	1FT-D10
C6	100 50V 10%		DD-101	GP100	GP310		10TS-T10
C8	39 50V				GP439	QC2-29	56AQ39
C9	.001 50V 10%			DPMS601	EWF1A210	QFT2-1	1FT-D10
C10	68 50V		DD-680	GP68	GP468		10TS-Q68
C11	.047 50V 10%			DPMS2547	EWF1A147	QFT2-171	1FT-547
C12	.01 50V		UK50-103		MAG5011		
C13	.01 50V		UK50-103		MAG5011		
C14	.01 50V		UK50-103		MAG5011		
C18	.01 50V		UK50-103		MAG5011		

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CC

ITE	
N	
RV	
RV	

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
C20	22 50V	1223986	UK50-103	GP22	GP422	QC2-19	5GA022
C21	22 50V			GP22	GP422	QC2-19	5GAQ22
C22	15 1150 50V						
C23	.01 50V	1224102	DD-221	GP100	MAG5011		10TCP-Q22
C24	22 1150 50V				*		10TCP-Q82
C25	82 1150 50V 10%				*		10TS-T22
C26	220 50V 10%	1223993	DD-101	GP100	GP322	QC2-13	10TS-T10
C27	100 50V 10%		DD-560		GP310		5GAQ15
C28	15 50V		DD-680		GP415		10TS-Q56
C29	56 50V	1223999	UK50-103	GP68	GP456		10TS-Q68
C30	68 50V		UK50-103		GP468		
C31	.01 50V		UK50-103		MAG5011		
C32	.01 50V	1224291	UK50-103	GP270	MAG5011		10TS-T22
C33	220 50V 10%		DD-221		GP322		
C34	.01 50V		UK50-103		MAG5011		
C35	.01 50V	1223999	UK50-103	GP390	MAG5011		
C36	.047 50V		UK50-503		MAG5015		
C37	.01 50V		UK50-103		MAG5011		
C38	560 50V	1224293	DD-561	WMF1S68	GP356		10TS-T56
C39	.01 50V		UK50-103		MAG5011		
C40	120 50V 10%				GP312		5GA-T12
C41	180 50V 10%	1224291	DD-221	WMF1S68	GP318		5GA-T18
C42	220 50V 10%		UK50-103		GP322		10TS-T22
C43	.01 50V				MAG5011		
C44	120 50V 10%	1223999	DD-271	WMF1S68	GP312		5GA-T12
C45	270 50V 10%		DD-391		GP327		10TS-T27
C46	390 50V 10%				GP339		10TS-T39
C47	.068 50V 10%	1224293		WMF1S68	EWFA1A168	QF1-195	1PB-S68
C49	.068 50V 10%				EWFA1A168	QF1-195	1PB-S68
C50	.0027 50V				H192P2729R8		192P2729R8
C53	.082 50V 10%	1224293		GP100	H192P8239R8		192P8239R8
C56	27 50V				GP427	QC2-23	5GA027
C57	.01 50V		UK50-103	GP100	MAG5011		
C58	.01 50V	1224291	UK50-103		MAG5011		
C59	100 50V 10%		DD-101		GP310		10TS-T10
C60	150 50V 10%	1223999	DD-151	GP100	GP315		10TS-T15
C61	150 50V 10%		DD-151		GP315		10TS-T15
C62	.01 50V		UK50-103		MAG5011		
C63	.047 50V	1224293	UK50-503	GP5	MAG5015		
C64	.047 50V		UK50-503		MAG5015		
C66	.01 50V		UK50-103		MAG5011		
C67	2 50V	1224293		GP5	GP533	QC2-1	5GAV50
C68	15 50V				GP415	QC2-13	5GA015
C69	.022 50V 10%				H192P2239R8	QFT2-127	1FT-S22
C70	2200 50V 10%	1224293		GP100	H192P2229R8	QFT2-127	1FT-D22
C71	.01 50V 10%				WMF1S1	QFT2-91	1FT-S10
C74	330 50V 10%		DD-331		GP330		10TS-T33
C76	.068 50V 10%	1224293		GP100	EWFA1A168	QF1-195	1PB-S68
C78	.068 50V 10%				EWFA1A168	QF1-195	1PB-S68
C79	330 50V 10%		DD-331		GP330		10TS-T33
C80	220 50V 10%	1224293	DD-221	GP100	GP322		10TS-T22
C81	100 50V 10%		DD-101		GP310		10TS-T10
C82	220 50V 10%		DD-221		GP322		10TS-T22
C86	.01 50V	1224293	UK50-103	GP100	MAG5011		
C87	.047 50V		UK50-503		MAG5015		
C88	.047 50V		UK50-503		MAG5015		
C89	15 50V	1224293	UK50-103	GP100	GP415	QC2-13	5GAQ15
C90	.01 50V		UK50-103		MAG5011		
C91	.01 50V		UK50-103		MAG5011		
C92	100 50V 10%	1224293	DD-101	GP100	GP310		10TS-T10
C93	470		DD-471		GP347		10TS-T47
C94	.001 50V 10%				EWFA1A210	QFT2-1	1FT-D10
C201	150 10%	1223960	DD-151	GP470	GP315		10TS-T15
C202	.01 50V		UK50-103		MAG5011		
C203	.01 50V		UK50-103	DPMS601	MAG5011		
C205	.047 50V	1223960	UK50-503		MAG5015		
C206	.047 50V		UK50-503		MAG5015		
C207	2200 50V			GP100	GP222		10TS-D22
C208	2200 50V	1223960			GP222		10TS-D22
C209	2200 50V				GP222		10TS-D22
C210	2200 50V	1223960		GP100	GP222		10TS-D22
C211	2200 50V				GP222		10TS-D22
C212	2200 50V				GP222		10TS-D22
C213	2200 50V	1223960		GP100	GP222		10TS-D22
C214	.01 50V		UK50-103		GP222		10TS-D22
CT1		1223960			MAG5011		
CT2		1223960					

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

DELCO MODEL 80BCB2

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
RV1	Squelch Range	20K	1223948			U260R253B
RV2	AMC	5000				U260R502B

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	VCO (18uH)	1224280	1800		
L2	VCO/Mixer (1uH)	1224302			
L3	RF Choke (2.2uH)	1223937	022F		
L4	RF Driver (27MHz)	1223938			
L5	RF Choke (68uH)	1223939	680W		
L6	RF Choke (.55uH)	1223945			
L7	RF Choke (1uH)	1223940			
L8	RF Power Amp (27MHz)	1223941			
L9	Final (27MHz)	1224281			
L10	Antenna Matching (.40uH)	1224092			
L12	RF Choke (1.15uH)	1224282			
L13	RF Choke (1.15uH)	1224282			
L14	RF Choke		680W		
T1	Ref Oscillator	1224300	10DB003M		
T2	VCO (37MHz)	1224301	01NCB		
T3	RF Pre-driver (27MHz)	1224283	11NCP		
T4	RF (27MHz)	1224284	08NMP		
T5	RF Amp (27MHz)	1224285			
T6	Mixer (10.695MHz)	1224286	10MA018M		
T7	Mixer (10.695MHz)	1224287	06NMA		
T8	IF (455kHz)	1223956			

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.	
L11	1A	.241	3.72mH	1224274 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.	
T9	2.88	1 8 13.52	1223932 ETA-66(1)	TR723	MCB-16	(1) Number on unit.

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		18-032	18-034	18-010	18-092	1	2	4	3	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	1223924	455kHz
J1	Connector	1223885	Antenna
J2	Connector	1224072	(20 Pin)
J4	Connector	1223886	Microphone (4 Pin) (Standard Mic)
	Connector	1224270	Post Pkg. Hex (Part of 20 Pin Connector)
XF1	Filter	1224074	10.695MHz
X1	Crystal	1224073	10.240MHz

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')
	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')