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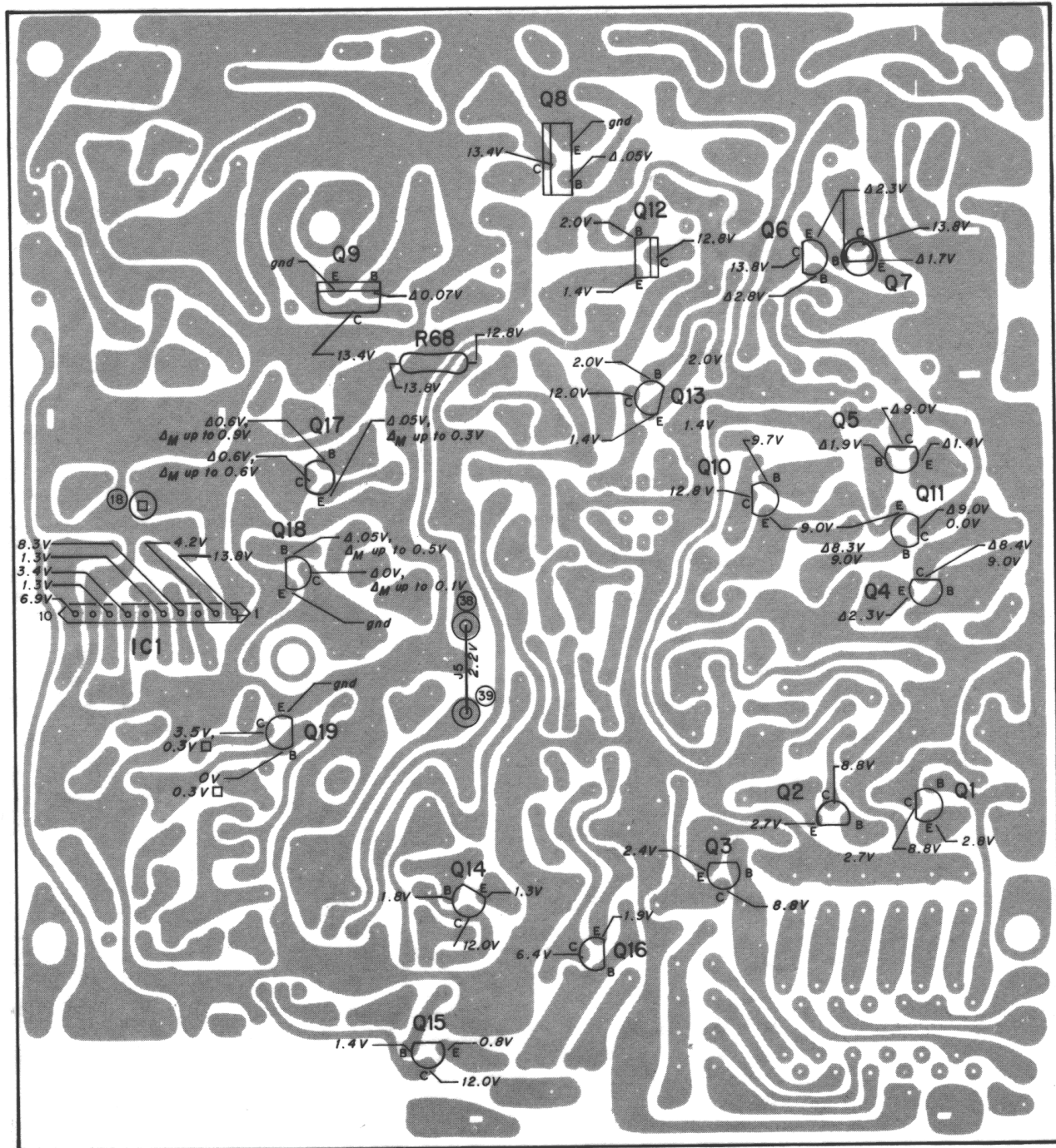
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**NOTES:**

1. P.C. board shown as viewed from foil side.
2. All voltages are measured with a VTVM (11 mega-ohms/V) from a p.c. board ground and with the transceiver connected to an external power supply adjusted for +13.8 VDC.

All readings are measured with the transceiver in the receive mode with no signal and unscquelled (except as noted). All are in VDC.

If measurements obtained exceed $\pm 20\%$ of the indicated values, the cause of the difference should be corrected.

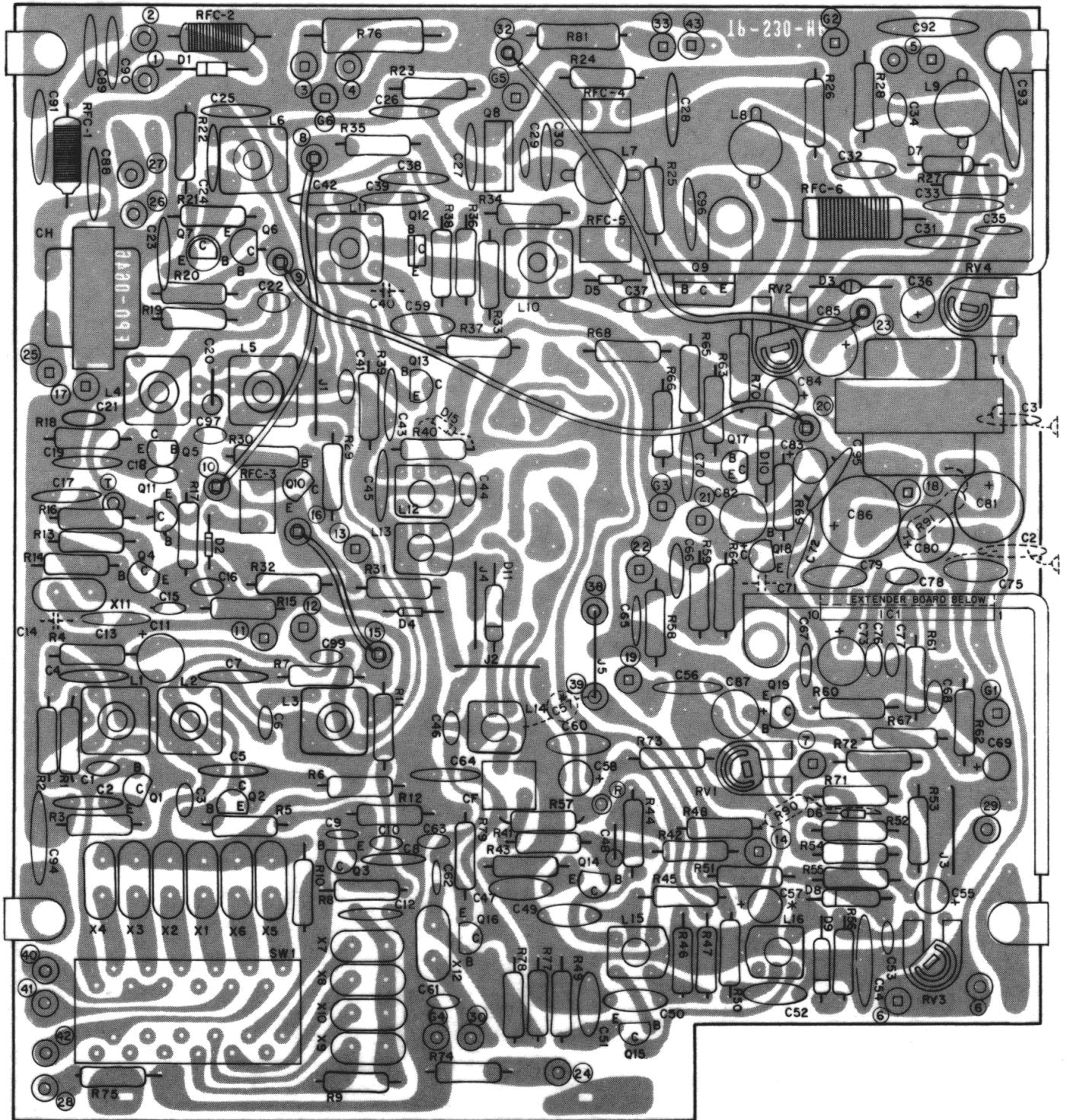
3. Symbols used:

- — receive voltage, squelched
- Δ — transmit voltage, unmodulated
- Δ_M — transmit voltage, modulated (whistle)

**Figure 4-2. P.C. Board, Voltage Callouts,
Stages 1 & 2**



**P.C. Board Drawings,
Stage 2**

**NOTES:**

1. P.C. board shown as viewed from component side.
2. Dashed outline component — mounted on foil side.
Dashed schematic symbol — selectable component and/or value.
3. *C57 may be mounted either above or below the p.c. board.

**Figure 4-3. P.C. Board, Component Outline,
Stage 2**

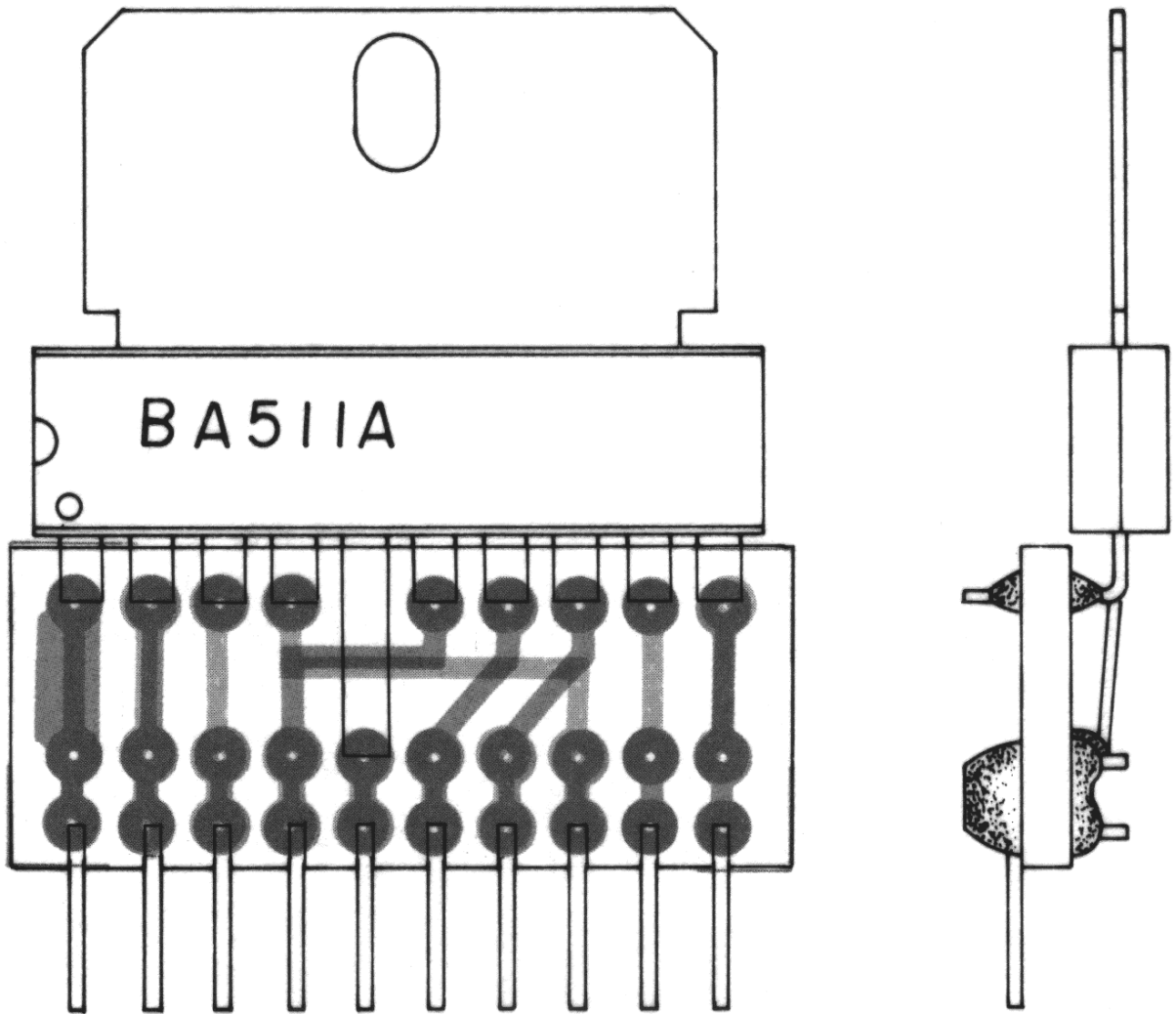


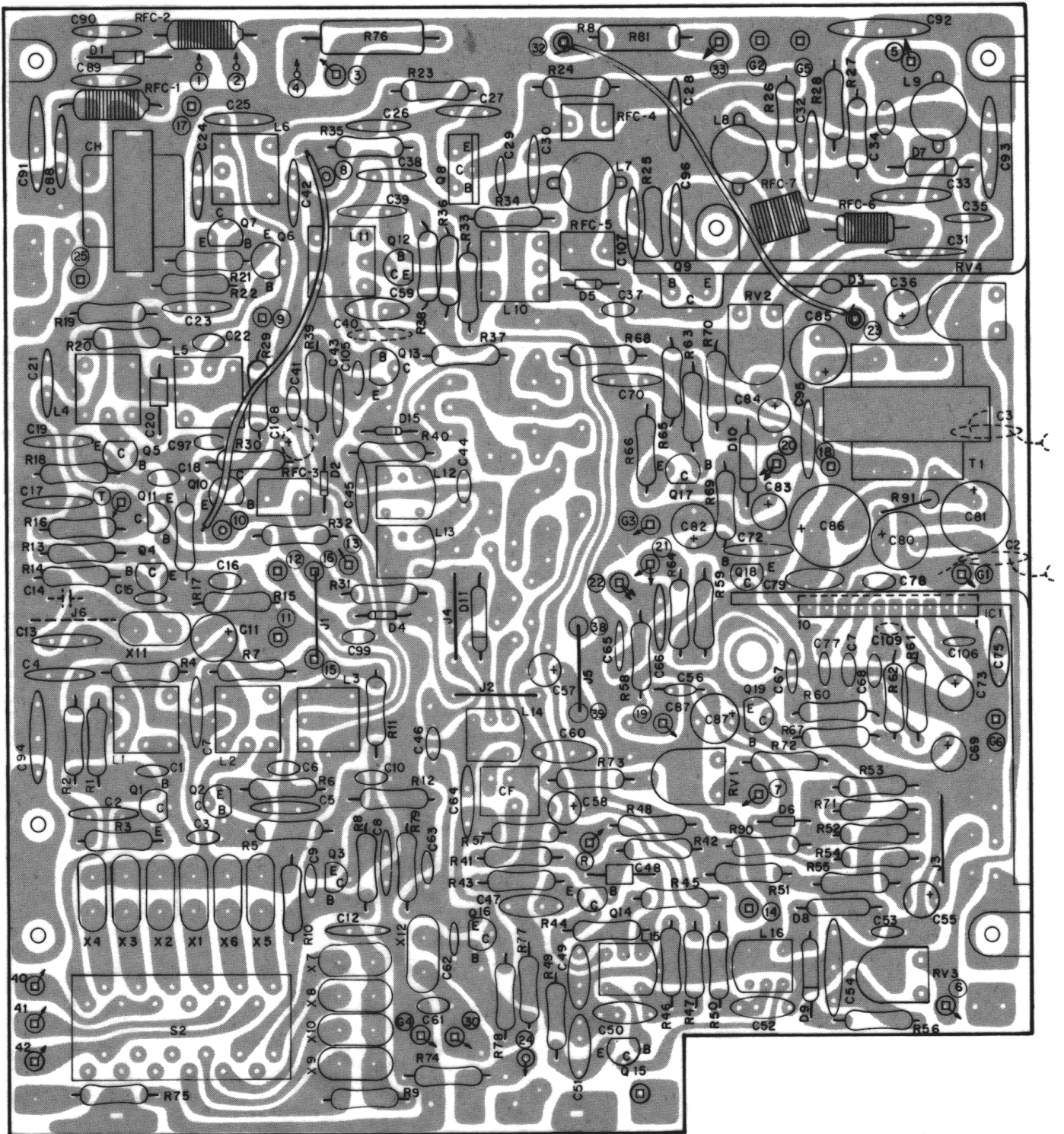
Figure 4-4. Audio IC Mounted on Extender P.C. Board



**P.C. Board Drawings,
Stage 3**

**P.C. Board Drawings,
Stage 4**





NOTES:

1. P.C. board shown as viewed from component side.
2. Dashed outline component — mounted on foil side.
Dashed schematic symbol — selectable component and/or value.

**Figure 4-7. P.C. Board, Component Outline,
Stage 4**



Parts List

Main P.C. Board

- Stage 1
- Stage 2
- Stage 3
- Stage 4

Unmarked components are common to all four stages.

Reference Designator

Description

Part No.

	○ main p.c. board, complete	EPA-0646CB
	● main p.c. board, complete	EPA-0646C 2
	□ main p.c. board, complete	APBMO26CA 1
	■ main p.c. board, complete	APBMO26CA 2
	○ ● main p.c. board, plated and drilled	EPO-0646-01
	□ ■ main p.c. board, plated and drilled	EPO-0646C-01
C1	2 pF, 50 V, ceramic disc	DD340-65SL020C50
C2	220 pF, 50 V, ceramic disc	DD310-65SL221K50
C3	6 pF, 50 V, ceramic disc	DD340-65SL060D50
C4	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C5	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C6	1 pF, 50 V, ceramic disc	DD340-65SL010C50
C7	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C8	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C9	560 pF, 50 V, mylar	FW-561K50
C10	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C11	33 uF, 16 V, electrolytic	ECE-A16V33LE
C12	220 pF, 50 V, ceramic disc	DD310-65SL221K50
C13	270 pF, 50 V, ceramic disc	DD310-65SL271K50
C14	(field selectable)	
C15	1000 pF, 50 V, mylar	FW-102K50
C16	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C17	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C18	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C19	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C20	1.5 pF, 500 V, ceramic disc	ECG-N51R5K
C21	.022 uF, 50 V, mylar	FW-223K50
C22	22 pF, 50 V, ceramic disc	DD340-65SL220K50
C23	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C24	82 pF, 50 V, ceramic disc	DD310-65PH820K50
C25	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C26	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C27	○ ● 330 pF, 50 V, ceramic disc	DD310-65SC-331K50
	□ ■ 390 pF, 50 V, ceramic disc	DD312-65SL391K50
C28	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C29	120 pF, 50 V, ceramic disc	DD360-65SL121K50
C30	220 pF, 50 V, ceramic disc	DD310-65SL221K50
C31	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C32	100 pF, 500 V, mica	FM09ZC101K5
C33	270 pF, 500 V, mica	FM13ZC271K5
C34	2 pF, 50 V, ceramic disc	DD340-65SL020C50
C35	.0047 uF, 50 V, ceramic disc	DD380-65E472P50
C36	1 uF, 50 V, electrolytic	ECE-A50V1LE
C37	27 pF, 50 V, ceramic disc	DD340-65SL270K50
C38	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C39	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C40	(factory selected)	
C41	12 pF, 50 V, ceramic disc	DD340-65SL120K50
C42	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C43	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C44	2 pF, 50 V, ceramic disc	DD340-65SL020C50
C45	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C46	47 pF, 50 V, ceramic disc	DD340-65SL470K50
C47	.047 uF, 50 V, mylar	FW-473K50
C48	2.2 pF, 50 V, ceramic disc	ECG-N52R2K
C49	.047 uF, 50 V, mylar	FW-473K50
C50	.047 uF, 50 V, mylar	FW-473K50
C51	.047 uF, 50 V, mylar	FW-473K50
C52	.047 uF, 50 V, mylar	FW-473K50

Reference Designator	Description	Part No.
C53	.0047 μ F, 50 V, mylar	FW-472K50
C54	.022 μ F, 50 V, ceramic disc	DD314-66E223Z50
C55	1 μ F, 50 V, electrolytic	ECE-A50V1LE
C56	○ ■ 2200 pF, 50 V, mylar	FW-222K50
	● □ .047 μ F, 50 V, mylar	FW-473K50
C57	3.3 μ F, 25 V, electrolytic	ECE-A25V3R3LE
C58	10 μ F, 16 V, electrolytic	ECE-A16V10LE
C59	.047 μ F, 50 V, mylar	FW-473K50
C60	.047 μ F, 50 V, mylar	FW-473K50
C61	27 pF, 50 V, ceramic disc	DD350-65PH270K50
C62	560 pF, 50 V, mylar	FW-561K50
C63	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C64	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C65	2200 pF, 50 V, ceramic disc	DD360-65B222K50
C66	.022 μ F, 50 V, mylar	FW-223K50
C67	.01 μ F, 50 V, mylar	FW-103K50
C68	2200 pF, 50 V, ceramic disc	DD350-65E222P50
C69	○ 3.9 μ F, 25 V, tantalum	ECS-Z25EF3R9Q
	● □ ■ 5.6 μ F, 25 V, tantalum	ECS-Z25EF5R6Q
C70	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C71	(factory selected)	
C72	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C73	33 μ F, 6.3 V, electrolytic	ECE-A6V33LE
C74	○ 100 pF, 50 V, ceramic disc	DD360-65SL101K50
	● □ ■ (not used)	
C75	.068 μ F, 50 V, mylar	FW-683K50
C76	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C77	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C78	○ 100 pF, 50 V, ceramic disc	DD360-65SL101K50
	● □ ■ 390 pF, 50 V, ceramics disc	DD350-65B391K50
C79	.068 μ F, 50 V, mylar	FW-683K50
C80	47 μ F, 16 V, electrolytic	ECE-A16V47LE
C81	220 μ F, 20%, 10 V, electrolytic	ECE-A10Z220E
C82	33 μ F, 6.3 V, electrolytic	ECE-A6V33LE
C83	10 μ F, 16 V, electrolytic	ECE-A16V10LE
C84	1 μ F, 50 V, electrolytic	ECE-A50V1LE
C85	47 μ F, 20%, 16 V, electrolytic	ECE-A16Z47
C86	1000 μ F, 16 V, electrolytic	ECE-A16V1000W
C87	33 μ F, 6.3 V, electrolytic	ECE-A6V33LE
C88	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C89	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C90	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C91	.047 μ F, 50 V, ceramic disc	DD314-66F473Z50
C92	.047 μ F, 50 V, ceramic disc	DD314-66F473Z50
C93	.047 μ F, 50 V, ceramic disc	DD314-66F473Z50
C94	.047 μ F, 50 V, ceramic disc	DD314-66F473Z50
C95	.047 μ F, 50 V, ceramic disc	DD314F473Z50V02
C96	.01 μ F, 50 V, ceramic disc	DD310-65E103P50
C97	22 pF, 50 V, ceramic disc	DD340-65SL220K50
C98	33 μ F, 16 V, electrolytic	ECE-A16V33LE
C99	47 pF, 50 V, ceramic disc	DD340-65SL470K50
C100		
through		
C104	(not used)	
C105	○ ● (not used)	
	□ ■ 39 pF, 50 V, ceramic disc	DD340-65SL390K50
C106	○ ● (not used)	
	□ ■ .01 μ F, 50 V, mylar	FW-103K50
C107	○ ● (not used)	
	□ ■ 100 pF, 50 V, ceramic disc	DD360-65SL101K50
C108	○ ● (not used)	
	□ ■ 10 μ F, 16 V, electrolytic	ECE-A16V10LE
C109	● ○ (not used)	
	□ ■ 390 pF, 50 V, ceramic disc	DD350-65B391K50
C110	○ ● □ (not used)	
	■ .01 μ F, 50 V, ceramic disc	DD310-65E103P50
CF	ceramic filter	EFC-0040
CH	0.125 μ H, audio choke coil	ELA-0016
D1	10D1, silicon	EDS-0002
	SR1K-4, silicon	EDS-0024
	1S1885, silicon	QD-SS1885XT
	(these three diodes are fully interchangeable)	

Reference Designator	Description	Part No.
D2	RD9.1E, silicon, zener	EDZ-0045
D3	V06C, silicon	EDS-0004
D4	1S1555, silicon	EDS-0001
D5	1S1555, silicon	EDS-0001
D6	1S1555, silicon	EDS-0001
D7	1N60, germanium	EDG-0003
D8	1N60, germanium	EDG-0003
D9	1N60, germanium	EDG-0003
D10	1N60, germanium	EDG-0003
D11	1N60, germanium	EDG-0003
D12	(not used)	
D13	(not used)	
D14	(not used)	
D15	1S1555, silicon	EDS-0001
IC1	○ (TOSHIBA) TA7205P	EICM-0060
	● (TOYO) BA511A (has straight leads)	QQ-MBA511AX
	or (TOYO) BA511A mounted on extender p.c. board	AZQQ001GEA
	□ (TOYO) BA511A (has formed leads)	QQ-MBA511BX
	■ (TOYO) BA521	QQ-MBA521AX
L1	rf coil	ETR-0336
L2	rf coil	ETR-0337
L3	rf coil	ETR-0338
L4	rf coil	ETR-0339
L5	rf coil	ETR-0340
L6	rf coil	ETR-0341
L7	rf coil	ETR-0342
L8	rf coil	ETR-0343
L9	rf coil	ETR-0344
L10	rf coil	ETR-0333
L11	rf coil	ETR-0334
L12	rf coil	ETR-0335
L13	rf coil	ETR-0335
L14	i-f coil	ETI-0122
L15	i-f coil	ETI-0123
L16	i-f coil	ETI-0129
Q1	(NEC) 2SC839(H)	EQS-0100
Q2	(MITSUBISHI) 2SC710(C)	EQS-0195
Q3	(NEC) 2SC839(H)	EQS-0100
Q4	(NEC) 2SC839(H)	EQS-0100
Q5	(MITSUBISHI) 2SC710(C)	EQS-0195
Q6	(MITSUBISHI) 2SC710(C)	EQS-0195
Q7	(TOSHIBA) 2SC735(O)	EQS-0192
Q8	(SONY) 2SC1760-3	EQS-0184
Q9	(NEC) 2SC1306	EQS-0160
Q10	(MATSUSHITA) 2SC1318(Q)	EQS-0165
Q11	(MATSUSHITA) 2SA719(Q)	EQR-0038
Q12	(HITACHI) 2SC460(A)	EQS-0018
Q13	(MITSUBISHI) 2SC710(C)	EQS-0195
Q14	(MITSUBISHI) 2SC710(C)	EQS-0195
Q15	(MITSUBISHI) 2SC710(C)	EQS-0195
Q16	(NEC) 2SC839(H)	EQS-0100
Q17	(NEC) 2SC945(B)	EQS-0061
Q18	(NEC) 2SC945(R)	EQS-0061
Q19	(NEC) 2SC945(R)	EQS-0061
R1	3.9 k, 5%, 1/4 w, carbon film	FCR14-A392
R2	12 k, 5%, 1/4 w, carbon film	FCR14-A123
R3	330, 5%, 1/4 w, carbon film	FCR14-A331
R4	47, 5%, 1/4 w, carbon film	FCR14-A470
R5	1 k, 5%, 1/4 w, carbon film	FCR14-A102
R6	680, 5%, 1/4 w, carbon film	FCR14-A681
R7	47, 5%, 1/4 w, carbon film	FCR14-A470
R8	6.8 k, 5%, 1/4 w, carbon film	FCR14-A682
R9	5.6 k, 5%, 1/4 w, carbon film	FCR14-A562
R10	3.3 k, 5%, 1/4 w, carbon film	FCR14-A332
R11	47, 5%, 1/4 w, carbon film	FCR14-A470
R12	470, 5%, 1/4 w, carbon film	FCR14-A471
R13	6.8 k, 5%, 1/4 w, carbon film	FCR14-A682
R14	3.3 k, 5%, 1/4 w, carbon film	FCR14-A332
R15	470, 5%, 1/4 w, carbon film	FCR14-A471
R16	100, 5%, 1/4 w, carbon film	FCR14-A101
R17	3.9 k, 5%, 1/4 w, carbon film	FCR14-A392

Reference Designator	Description	Part No.
R18	270, 5%, ¼ w, carbon film	FCR14-A271
R19	2.7 k, 5%, ¼ w, carbon film	FCR14-A272
R20	5.6 k, 5%, ¼ w, carbon film	FCR14-A562
R21	220, 5%, ¼ w, carbon film	FCR14-A221
R22	68, 5%, ¼ w, carbon film	FCR14-A680
R23	100, 5%, ¼ w, carbon film	FCR14-A101
R24	220, 5%, ¼ w, carbon film	FCR14-A221
R25	47, 5%, ¼ w, carbon film	FCR14-A470
R26	10, 5%, ½ w, metal oxide	ERX-12ANJ100
R27	47 k, 5%, ¼ w, carbon film	FCR14-A473
R28	1 k, 5%, ¼ w, carbon film	FCR14-A102
R29	22, 5%, ½ w, metal oxide	ERG-12ANJ220
R30	1 k, 5%, ¼ w, carbon film	FCR14-A102
R31	390, 5%, ¼ w, carbon film	FCR14-A391
R32	3.3 k, 5%, ¼ w, carbon film	FCR14-A332
R33	330, 5%, ¼ w, carbon film	FCR14-A331
R34	1 k, 5%, ¼ w, carbon film	FCR14-A102
R35	33 k, 5%, ¼ w, carbon film	FCR14-A333
R36	680, 5%, ¼ w, carbon film	FCR14-A681
R37	220, 5%, ¼ w, carbon film	FCR14-A221
R38	1.8 k, 5%, ¼ w, carbon film	FCR14-A182
R39	560, 5%, ¼ w, carbon film	FCR14-A561
R40	470, 5%, ¼ w, carbon film	FCR14-A471
R41	1 k, 5%, ¼ w, carbon film	FCR14-A102
R42	4.7 k, 5%, ¼ w, carbon film	FCR14-A472
R43	470, 5%, ¼ w, carbon film	FCR14-A471
R44	○ ● 33 k, 5%, ¼ w, carbon film	FCR14-A333
	□ ■ 47 k, 5%, ¼ w, carbon film	FCR14-A473
R45	470, 5%, ¼ w, carbon film	FCR14-A471
R46	○ ● 4.7 k, 5%, ¼ w, carbon film	FCR14-A472
	□ ■ 3.3 k, 5%, ¼ w, carbon film	FCR14-A332
R47	12 k, 5%, ¼ w, carbon film	FCR14-A123
R48	22 k, 5%, ¼ w, carbon film	FCR14-A223
R49	○ ● 330, 5%, ¼ w, carbon film	FCR14-A331
	□ ■ 220, 5%, ¼ w, carbon film	FCR14-A221
R50	○ ● 470, 5%, ¼ w, carbon film	FCR14-A471
	□ ■ 47, 5%, ¼ w, carbon film	FCR14-A470
R51	22 k, 5%, ¼ w, carbon film	FCR14-A223
R52	47 k, 5%, ¼ w, carbon film	FCR14-A473
R53	68 k, 5%, ¼ w, carbon film	FCR14-A683
R54	47 k, 5%, ¼ w, carbon film	FCR14-A473
R55	33 k, 5%, ¼ w, carbon film	FCR14-A333
R56	820, 5%, ¼ w, carbon film	FCR14-A821
R57	100, 5%, ¼ w, carbon film	FCR14-A101
R58	○ 5.6 k, 5%, ¼ w, carbon film	FCR14-A562
	● □ ■ 3.3 k, 5%, ¼ w, carbon film	FCR14-A332
R59	3.3 k, 5%, ¼ w, carbon film	FCR14-A332
R60	2.2 k, 5%, ¼ w, carbon film	FCR14-A222
R61	820, 5%, ¼ w, carbon film	FCR14-A821
R62	○ 47, 5%, ¼ w, carbon film	FCR14-A470
	● □ 4.7, 5%, ¼ w, carbon film	FCR14-A472
	■ 10, 5%, ¼ w, carbon film	FCR14-A100
R63	220 k, 5%, ¼ w, carbon film	FCR14-A224
R64	27 k, 5%, ¼ w, carbon film	FCR14-A273
R65	22 k, 5%, ¼ w, carbon film	FCR14-A223
R66	150, 5%, ¼ w, carbon film	FCR14-A151
R67	10 k, 5%, ¼ w, carbon film	FCR14-A103
R68	82, 5%, ¼ w, carbon film	FCR14-A820
R69	270, 5%, ¼ w, carbon film	FCR14-A271
R70	680, 5%, ¼ w, carbon film	FCR14-A681
R71	22 k, 5%, ¼ w, carbon film	FCR14-A223
R72	1.8 k, 5%, ¼ w, carbon film	FCR14-A182
R73	○ ● 12 k, 5%, ¼ w, carbon film	FCR14-A123
	□ ■ 15 k, 5%, ¼ w, carbon film	FCR14-A153
R74	○ ● 270, 5%, ½ w, metal oxide	ERG-12ANJ271
	□ ■ 150, 5%, 1 w, metal oxide	ERG-1ANJ151
R75	270, 5%, ½ w, metal oxide	ERG-12ANJ271
R76	15, 5%, 2 w, metal oxide	ERX-2ANJ150
R77	3.3 k, 5%, ¼ w, carbon film	FCR14-A332
R78	5.6 k, 5%, ¼ w, carbon film	FCR14-A562
R79	560, 5%, ¼ w, carbon film	FCR14-A561
R80	(not used)	
R81	150, 5%, 1 w, metal oxide	ERG-1ANJ151

Reference Designator	Description	Part-No.
R82 through R89	(not used)	
R90	○ ● 390 k, 5%, ¼ w, carbon film	FCR14-A394
	390 k, 5%, ¼ w, solid carbon (on some early units)	ERC-14GK394
	□ ■ 270, 5%, ¼ w, carbon film	FCR14-A274
R91	○ (not used)	
	● □ ■ 100, 5%, ¼ w, solid carbon	ERD-14VJ101
RFC1	0.75 μ H, rf choke coil	ELR-0011
RFC2	0.75 μ H, rf choke coil	ELR-0011
RFC3	68 μ H, rf choke coil	ELR-0125
RFC4	○ ● 15 μ H, rf choke coil	ELR-0126
	□ ■ 2.2 μ H, rf choke coil	ELR-0128
RFC5	68 μ H, rf choke coil	ELR-0125
RFC6	rf choke coil	ELR-0127
RFC7	○ ● (not used)	
	□ ■ 0.55 μ H, rf choke coil	LA1KE1011A
RV1	10 k, potentiometer	ERP-0041
RV2	2 k, potentiometer	ERP-0047
RV3	20 k, potentiometer	ERP-0022
RV4	20 k, potentiometer	ERP-0022
S2	rotary wafer switch	ESR-0171
T1	○ audio transformer	ETA-0066
	● □ ■ audio transformer	TB-G25B004W
X1	23.290 MHz crystal	EXT-002S023290
X2	23.340 MHz crystal	EXT-002S023340
X3	23.390 MHz crystal	EXT-002S023390
X4	23.440 MHz crystal	EXT-002S023440
X5	23.490 MHz crystal	EXT-002S023490
X6	23.540 MHz crystal	EXT-002S023540
X7	14.950 MHz crystal	EXT-002S014950
X8	14.960 MHz crystal	EXT-002S014960
X9	14.970 MHz crystal	EXT-002S014970
X10	14.990 MHz crystal	EXT-002S014990
X11	11.275 MHz crystal	EXT-002Z011275
X12	11.730 MHz crystal	EXT-002Z011730

Chassis-Mounted Components

Reference Designator	Description	Part No.
C1	220 pF, 50 V, mica	FM11ZC221K5
C2	.01 μ F, 50 V, ceramic disc	DD310E103P50
C3	.01 μ F, 50 V, ceramic disc	DD310E103P50
C4	.01 μ F, 50 V, ceramic disc	DD310E103P50
J1	SO-239 UHF jack	EZS-0066
J2	5-pin, DIN microphone jack	EZS-0084
J3	3.5 mm, phone jack	EZS-0056
J4	1/4" dia., 3-conductor phone jack	EZS-0126
M	meter	EMM-0046
PL1	pilot lamp	EZP-0024E
PL2	pilot lamp	EZP-0024E
R1	8.2, 5%, 1/4 w, carbon film	ERD-14TJ8R2
S1	on/off power switch (part of volume control)	ERV-0176
S2	(see main p.c. board)	
SP	8 ohm, 77mm, speaker	EAS-0029
VR1	50 k, potentiometer (volume control w/power switch)	ERV-0176
VR2	10 k, potentiometer (squelch)	ERV-0177
	2 A, 30 mm, fuse	EZF-0005
	heat sink (A) - for IC1	MC092P007
	heat sink (B) - for Q8	MC092P008

Mechanical Parts

Part No.	Description	Qty.
MC045A001	front panel, plastic	1
MC088P001	chassis, main frame	1
MC088P002	chassis, front frame	1
MC088P003	case (upper)	1
MC088P004	case (lower)	1
MC045P005	channel selector dial plate	1
MC046P010	bracket, meter	1
MWO-0345	lamp holder	2
MTO-0003	knob, channel selector	1
MTO-0004	knob, squelch and volume	2
MYO-142	bracket, speaker	3
EZS-0001	fuse holder	1
ENO-0090	power cord set	1
EZZ-0025	bushing, power cord	1

Accessory Parts

Part No.	Description	Qty.
MC046P006	mounting bracket	1
MMO-0108A	handscrew	2
MYO-0025	microphone holder	1
STPT50132SN	self-tapping screw, M5 x 13	4
ZTS050000SX	outside tooth washer, M5	4
STN40102SN	self-tapping screw, M4 x 10	2
ZTU040000SX	outside tooth washer, M4	2
EAM-0032	microphone	1



Schematic Diagrams

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