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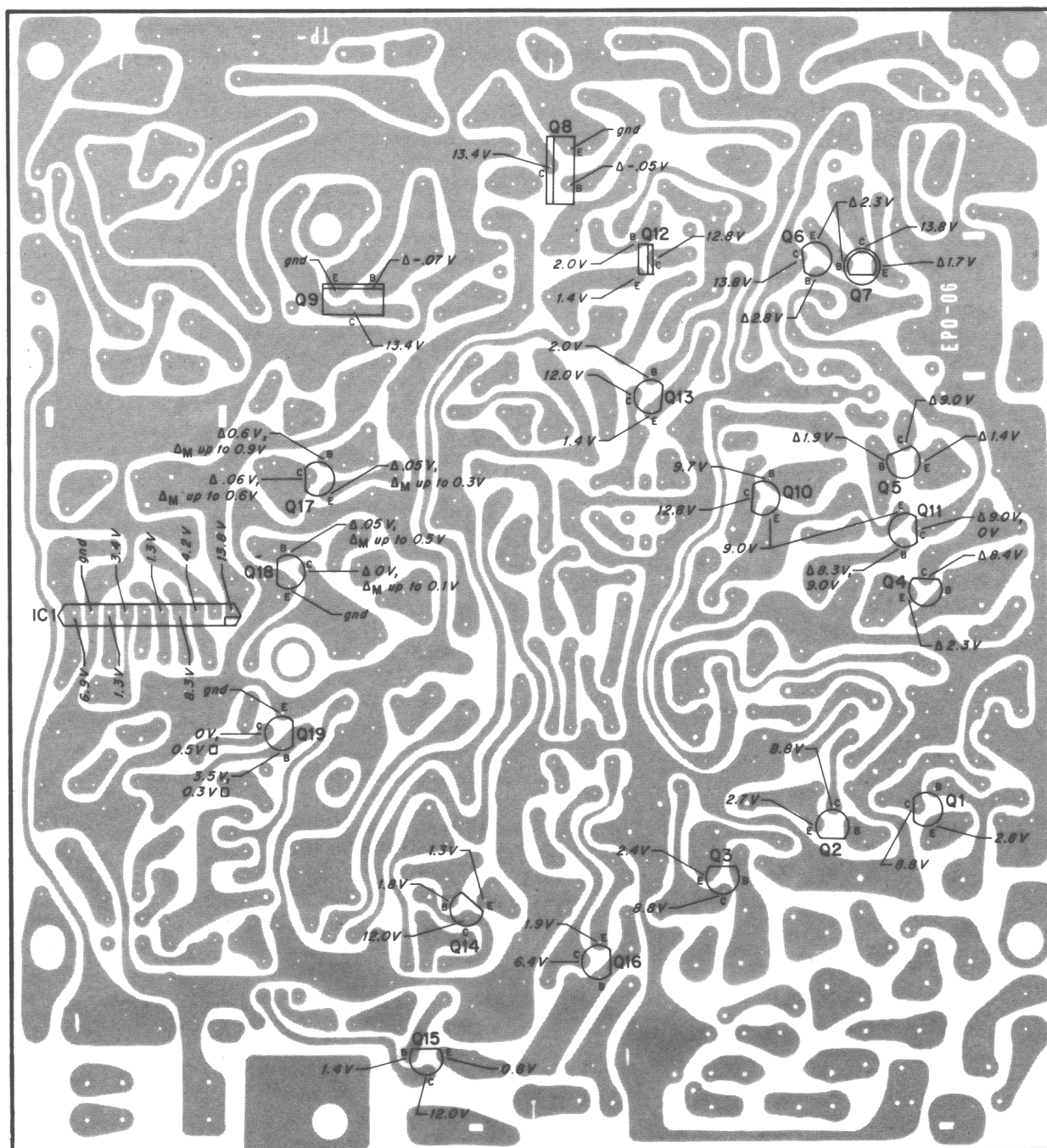
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**NOTES:**

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 120 VAC.

All readings are measured with the transceiver in the receive mode with no signal and unscueled (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, scueled
- △ - transmit voltage, unmodulated
- Δ_M - transmit voltage, modulated (whistle)

Figure 3-6. Main P.C. Board, Voltage Callouts

Main P.C. Board

Reference Designator	Description	Part No.
	main circuit board, complete	EPA-0657A
	Main circuit board, plated and drilled	EPO-0657
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, 50 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, 50V, 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	DD310-65SL331K50
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
C53	.015 uF, 50 V, mylar	FW-153K50
C54	.022 uF, 50 V, ceramic disc	DD314-66E223Z50
C55	1 uF, 50 V, electrolytic	ECE-A50V1LE
C56	4700 pF, 50 V, mylar	FW-472K50
C57	3.3 uF, 25 V, electrolytic	ECE-A25V3R3LE
C58	10 uF, 16 V, electrolytic	ECE-A16V10LE
C59	.047 uF, 50 V, mylar	FW-473K50
C60	.047 uF, 50 V, mylar	FW-473K50
C61	(not used)	

Reference Designator	Description	Part No.
C62	560 pF, 50 V, mylar	FW-561K50
C63	68 pF, 50 V, ceramic disc	DD350-65SL680K50
C64	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C65	2200 pF, 50 V, ceramic disc	DD260-65B222K50
C66	.022 uF, 50 V, mylar	FW-223K50
C67	.01 uF, 50 V, mylar	FW-103K50
C68	2200 pF, 50 V, ceramic disc	DD350-65E222P50
C69	3.9 uF, 25 V, tantalum	ECS-Z25EF3R9Q
C70	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C71	(factory selected)	
C72	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C73	33 uF, 6.3 V, electrolytic	ECE-A6V33LE
C74	100 pF, 50 V, ceramic disc	DD360-65SL101K50
C75	.068 uF, 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
C79	.068 uF, 50 V, mylar	FW-683K50
C80	47 uF, 16 V, electrolytic	ECE-A16V47LE
C81	220 uF, 20%, 10 V, electrolytic	ECE-A10Z220E
C82	330 uF, 6.3 V, electrolytic	ECE-A6V33LE
C83	10 uF, 16 V, electrolytic	ECE-A16V10LE
C84	1 uF, 50 V, electrolytic	ECE-A50V1LE
C85	47 uF, 20%, 16 V, electrolytic	ECE-A16Z47
C86	1000 uF, 16 V, electrolytic	ECE-A16V1000W
C87	33 uF, 6.3 V, electrolytic	ECE-A6V33LE
C88	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C89	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C90	.01 uF, 50 V, ceramic disc	DD310-65E103P50
C91	.047 uF, 50 V, ceramic disc	DD314-66F473Z50
C92	.047 uF, 50 V, ceramic disc	DD314-66F473Z50
C93	.047 uF, 50 V, ceramic disc	DD314-66F473Z50
C94	.047 uF, 50 V, ceramic disc	DD314-66F473Z50
C95	.047 uF, 50 V, ceramic disc	DD314F473Z50V02
C96	.01 uF, 50 V, ceramic	DD310-65E103P50
C97	22 pF, 50 V, ceramic disc	DD340-65SL220K50
C98	(not used)	
C99	47 pF, 50 V, ceramic disc	DD340-65SL470K50
C100		
through		
C109	(not used)	
C110	82 pF, 50 V, ceramic disc	DD340-65SL820K50
CF	ceramic filter	EFC-0040
CH	0.125 uH, audio choke coil	ELA-0016
D1	(not used)	
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		
through		
D14	(not used)	
D15	1S1555, silicon	EDS-0001
IC1	(TOSHIBA) TA7205P	EICM-0060
	mylar sheet	MFO-0049

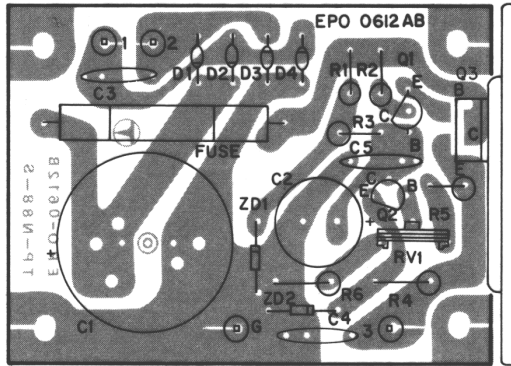
Reference Designator	Description	Part No.
L1	rf coil	ETR-0336
L2	rf coil	ETR0337
L3	rf coil	ETR-0338
L4	rf coil	ETR-0339
L5	rf coil	ETR-0340
L6	rf coil	ETR-0341
L7	rf coil	ETR-0342
L8	rf coil	ETR-0343
L9	rf coil	ETR-0344
L10	rf coil	ETR-0333
L11	rf coil	ETR-0334
L12	rf coil	ETR-0335
L13	rf coil	ETR-0335
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(R)	EQS-0061
Q18	(NEC) 2SC945(R)	EQS-0061
Q19	(NEC) 2SC945(R)	EQS-0061
R1	3.9 k, 5%, 1/4 w, carbon	FCR14-A392
R2	12 k, 5%, 1/4 w, carbon	FCR14-A123
R3	330, 5%, 1/4 w, carbon	FCR14-A331
R4	47, 5%, 1/4 w, carbon	FCR14-A470
R5	1 k, 5%, 1/4 w, carbon	FCR14-A102
R6	680, 5%, 1/4 w, carbon	FCR14-A681
R7	47, 5%, 1/4 w, carbon	FCR14-A470
R8	6.8 k, 5%, 1/4 w, carbon	FCR14-A682
R9	(not used)	
R10	3.3 k, 5%, 1/4 w, carbon	FCR14-A332
R11	47, 5%, 1/4 w, carbon	FCR14-A470
R12	470, 5%, 1/4 w, carbon	FCR14-A471
R13	6.8 k, 5%, 1/4 w, carbon	FCR14-A682
R14	3.3 k, 5%, 1/4 w, carbon	FCR14-A332
R15	470, 5%, 1/4 w, carbon	FCR14-A471
R16	100, 5%, 1/4 w, carbon	FCR14-A101
R17	3.9 k, 5%, 1/4 w, carbon	FCR14-A392
R18	270, 5%, 1/4 w, carbon	FCR14-A271
R19	2.7 k, 5%, 1/4 w, carbon	FCR14-A272
R20	5.6 k, 5%, 1/4 w, carbon	FCR14-A562
R21	220, 5%, 1/4 w, carbon	FCR14-A221
R22	68, 5%, 1/4 w, carbon	FCR14-A680
R23	100, 5%, 1/4 w, carbon	FCR14-A101
R24	220, 5%, 1/4 w, carbon	FCR14-A221
R25	47, 5%, 1/4 w, carbon	FCR14-A470
R26	10, 5%, 1/2 w, metal oxide	ERX-12ANJ100
R27	47 k, 5%, 1/4 w, carbon	FCR14-A473

Reference Designator	Description	Part No.
R28	1 k, 5%, 1/4 w, carbon	FCR14-A102
R29	22, 5%, 1/2 w, metal oxide	ERG-12ANJ220
R30	1 k, 5%, 1/4 w, carbon	FCR14-A102
R31	390, 5%, 1/4 w, carbon	FCR14-A391
R32	3.3 k, 5%, 1/4 w, carbon	FCR14-A332
R33	330, 5%, 1/4 w, carbon	FCR14-A331
R34	1 k, 5%, 1/4 w, carbon	FCR14-A102
R35	33 k, 5%, 1/4 w, carbon	FCR14-A333
R36	680, 5%, 1/4 w, carbon	FCR14-A681
R37	220, 5%, 1/4 w, carbon	FCR14-A221
R38	1.8 k, 5%, 1/4 w, carbon	FCR14-A182
R39	560, 5%, 1/4 w, carbon	FCR14-A561
R40	470, 5%, 1/4 w, carbon	FCR14-A471
R41	1 k, 5%, 1/4 w, carbon	FCR14-A102
R42	4.7 k, 5%, 1/4 w, carbon	FCR14-A472
R43	470, 5%, 1/4 w, carbon	FCR14-A471
R44	33 k, 5%, 1/4 w, carbon	FCR14-A333
R45	470, 5%, 1/4 w, carbon	FCR14-A471
R46	4.7 k, 5%, 1/4 w, carbon	FCR14-A472
R47	12 k, 5%, 1/4 w, carbon	FCR14-A123
R48	22 k, 5%, 1/4 w, carbon	FCR14-A223
R49	330, 5%, 1/4 w, carbon	FCR14-A331
R50	470, 5%, 1/4 w, carbon	FCR14-A471
R51	22 k, 5%, 1/4 w, carbon	FCR14-A223
R52	47 k, 5%, 1/4 w, carbon	FCR14-A473
R53	68 k, 5%, 1/4 w, carbon	FCR14-A683
R54	47 k, 5%, 1/4 w, carbon	FCR14-A473
R55	33 k, 5%, 1/4 w, carbon	FCR14-A333
R56	820, 5%, 1/4 w, carbon	FCR14-A821
R57	100, 5%, 1/4 w, carbon	FCR14-A101
R58	5.6 k, 5%, 1/4 w, carbon	FCR14-A562
R59	3.3 k, 5%, 1/4 w, carbon	FCR14-A332
R60	2.2 k, 5%, 1.4 w, carbon	FCR14-A222
R61	820, 5%, 1/4 w, carbon	FCR14-A821
R62	47, 5%, 1/4 w, carbon	FCR14-A470
R63	220, 5%, 1/4 w, carbon	FCR14-A224
R64	27 k, 5%, 1/4 w, carbon	FCR14-A273
R65	22 k, 5%, 1/4 w, carbon	FCR14-A223
R66	150, 5%, 1/4 w, carbon	FCR14-A151
R67	10 k, 5%, 1/4 w, carbon	FCR14-A103
R68	82, 5%, 1/4 w, carbon	FCR14-A820
R69	270, 5%, 1/4 w, carbon	FCR14-A271
R70	680, 5%, 1/4 w, carbon	FCR14-A681
R71	22 k, 5%, 1/4 w, carbon	FCR14-A223
R72	1.8 k, 5%, 1/4 w, carbon	FCR14-A182
R73	12 k, 5%, 1/4 w, carbon	FCR14-A123
R74	150, 5%, 1/2 w, metal oxide	ERG-12ANJ151
R75	270, 5%, 1/2 w, metal oxide	ERG-12ANJ271
R76	15, 5%, 2 w, metal oxide	ERX-2ANJ150
R77	3.3 k, 5%, 1/4 w, carbon	FCR14-A332
R78	5.6 k, 5%, 1/4 w, carbon	FCR14-A562
R79	560, 5%, 1/4 w, carbon	FCR14-A561
R80	10 k, 5%, 1/4 w, carbon	FCR14-A103
R81	150, 5%, 1 w, metal oxide	ERG-1ANJ151
R82		
through		
R89	(not used)	
R90	390 k, 10%, 1/4 w, solid	ERC-12GK394
RFC1	0.75 uH, rf choke coil	ELR-0011
RFC2	0.75 uH, rf choke coil	ELR-0011
RFC3	68 uH, rf choke coil	ELR-0125
RFC4	15 uH, rf choke coil	ELR-0126
RFC5	68 uH, rf choke coil	ELR-0125
RFC6	rf choke coil	ELR-0127

Reference Designator	Description	Part No.
RV1	10 k, potentiometer	ERP-0041
RV2	2 k, potentiometer	ERP-0047
RV3	20 k, potentiometer	ERP-0022
RV4	20 k, potentiometer	ERP-0022
T1	audio transformer	ETA-0066
X1		
through		
X10	(see crystal p.c. board)	
X11	11.275 MHz crystal	EXT-002Z011275
X12	11.730 MHz crystal	EXT-002Z011730



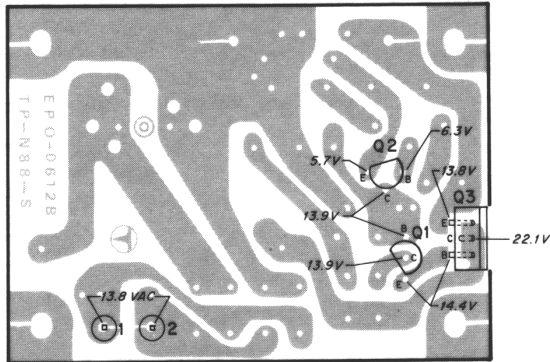
POWER SUPPLY P.C. BOARD



NOTE:

P.C. board shown as viewed from component side.

Figure 3-7. Power Supply P.C. Board, Component Outline



NOTES:

1. P.C. board shown as viewed from foil side.
 2. All voltages are measured with a VTVM (11 megohms/V) from a p.c. board ground and with the transceiver connected to an external power supply adjusted for 120 VAC.
- All readings are in VDC except as noted.
- If measurements obtained exceed $\pm 20\%$ of the indicated values, the cause of the difference should be corrected.

Figure 3-8. Power Supply P.C. Board, Voltage Callouts

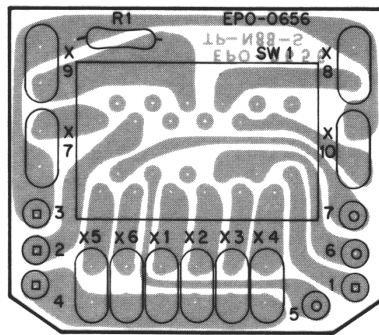
Power Supply P.C. Board

Reference Designator	Description	Part No.
	power supply circuit board, complete	EPA-0612BA
	power supply circuit board, plated & drilled	EPO-0612B
C1	2200 uF, 25 V, electrolytic	ECE-T25R2200S
C2	100 uF, 25 V, electrolytic	ECE-A25V100L
C3	.022 uF, 50 V, ceramic disc	RD209YZ223P50
C4	.01 uF, 50 V, ceramic disc	RD208YZ103P50
C5	.047 uF, 50 V, ceramic disc	RD208YZ103P50
C6	.022 uF, 50 V, ceramic disc	RD209YM223P50
D1	F14A, silicon	EDS-0017
D2	F14A, silicon	EDS-0017
C3	F14A, silicon	EDS-0017
D4	F14A, silicon	EDS-0017
F1	2.5 amp, 250 V, 30 mm, fuse w/lead	EZF-0049
Q1	(NEC) 2SC900F	EQS-0078
Q2	(NEC) 2SC900F	EQS-0078
Q3	(SANYO) 2SD313	EQS-0154
R1	220, 5%, 1/2 w, solid	ERC-12GK221
R2	47, 5%, 1/2 w, solid	ERC-12GK470
R3	100, 5%, 1/2 w, solid	ERC-12GK101
R4	820, 5%, 1/2 w, solid	ERC-12GK821
R5	1.2 k, 5%, 1/2 w, solid	ERC12GK122
R6	820, 5%, 1/2 w, solid	ERC-12GK821
RV1	500 ohm, potentiometer	ERP-0019
ZD1	BZ-162, silicon, zener	EDZ-0030
ZD2	RD-6A M, silicon, zener	EDZ-0019



CRYSTAL P.C. BOARD

EO-0673-A-013



NOTE:

P.C. board shown as viewed from component side.

Figure 3-9. Crystal P.C. Board, Component Outline

Crystal P.C. Board

Reference Designator	Description	Part No.
	crystal circuit board, complete	.EPA-0656A
	crystal circuit board, plated & drilled	.EPO-0656
R1	5.6 k, 5%, 1/4 w, carbon	.ERD-14TJ562
S2	rotary wafer switch	.ESR-0171
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



CHASSIS-MOUNTED COMPONENTS, MECHANICAL PARTS, AND ACCESSORY PARTS

Chassis-Mounted Components

Reference Designator	Description	Part No.
C1	220 pF, 50 V, mica	FM11ZC221K5
C2	.01 uF, 50 V, ceramic disc	DD310E103P50
C3	.01 uF, 50 V, ceramic disc	DD310E103P50
C4	.01 uF, 50 V, ceramic disc	DD310E103P50
C5	8 pF, 50 V, ceramic disc	DD340-65SL080D50
C6	4.7 uF, 25 V, electrolytic	ECE-A25V4R7L
CR1	capacitor/resistor module	ECR-0013
F1	0.75 A, 30 mm, fuse	EZF-0059
J1	SO-239 UHF jack	EZS-0066
J2	5-pin, DIN microphone jack	EZS-0084
J3	1/4" dia., phone jack	EZS-0127
J4	1/4" dia., 3-conductor phone jack	EZS-0126
M	meter	EMM-0048A
PL1	pilot lamp	EZP-0024A
PL2	pilot lamp	EZP-0021
R1	8.2, 5%, 1/4 w, carbon	ERD-14TJ5R2
R2	82 k, 5%, 1/4 w, carbon	ERD-14TJ823
S1	on/off power switch (part of volume control)	ERV-0184
S2	(see crystal circuit board)	
S3	DPDT toggle switch	EST-0004
SP	8 ohm, 95 x 50 mm oval, speaker	EAS-0018
VC1	3 pF - 77 pF, variable capacitor	ECV-0030
VR1	50 k, potentiometer (volume control w/power switch)	ERV-0184
VR2	10 k, potentiometer — squelch (1/2 of squelch/ rf gain control)	
VR3	50 k, potentiometer — rf gain (1/2 of squelch/ rf gain control)	ERV-0184
	power transformer	ETP-0099
	heat sink (A) - for IC1	MC092P007
	heat sink (B) - for Q8	MC092P008
	heat sink - for Q3 of power supply	MC063P003

Mechanical Parts

Part No.	Description	Qty.
MC091A001	escutcheon assembly (front panel)	1
MC052A002	side panel assembly, wood	1
MC091P001	chassis	1
MC091P002	rear panel	1
MC052P006	bottom plate	1
MC052P007	front plate	1
MC009P012	bracket, meter	2
MNO-0117	knob, fine tune	1
MNO-0133	knob, channel selector	1
MNO-0197	knob, volume	1
MNO-0195	knob, squelch	1
MNo-0196	knob, rf gain	1
EZZ-0003	rubber foot	4
EZS-0001	fuse holder	1
EZZ-0001U	power cord	1
EZZ-0025	bushing, power cord	1

Accessory Parts

Part No.	Description	Qty.
EAM-0032	microphone	1
EZF-0059	0.75A, 30 mm, fuse	1

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