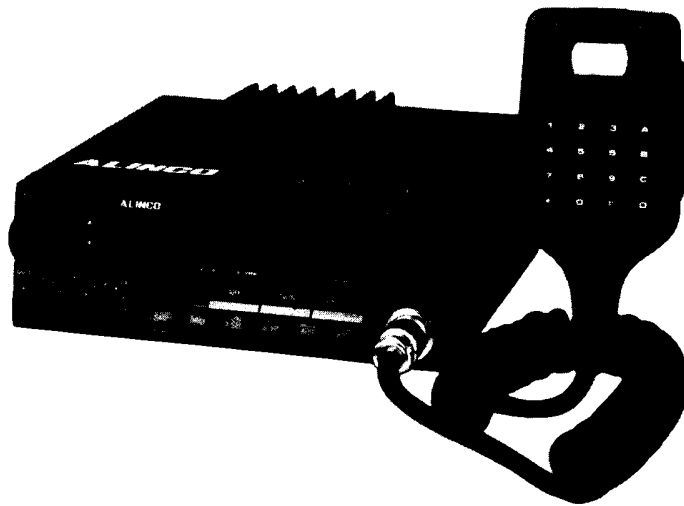


# DR-570T/E

## Service Manual



### Index

●SPECIFICATIONS .....	2	●UHF PLL, VCO SCHEMATIC DIAGRAM .....	28
●PARTS LIST .....	3~9	●UHF PLL, VCO PC BOARD .....	28
●DISASSEMBLING PROCEDURE .....	10~13	●VOL PC BOARD .....	29
●CABINET PARTS LOCATION .....	14	●POWER SUPPLY PC BOARD .....	29
●ADJUSTMENT (VHF) .....	15	●CPU SCHEMATIC DIAGRAM .....	30
●ADJUSTMENT (UHF) .....	16	●CPU PC BOARD .....	31
●BLOCK DIAGRAM .....	17	●CONTROL SCHEMATIC DIAGRAM .....	32
●SCHEMATIC DIAGRAM .....	18	●CONTROL PC BOARD .....	33
●VHF MAIN SCHEMATIC DIAGRAM .....	19, 20	●X'CON SCHEMATIC DIAGRAM .....	34
●VHF MAIN PC BOARD .....	21, 22	●X'CON PC BOARD .....	35
●UHF MAIN SCHEMATIC DIAGRAM .....	23, 24	●FINAL, DUPLEXER SCHEMATIC DIAGRAM ..	36
●UHF MAIN PC BOARD .....	25, 26	●VHF FINAL PC BOARD .....	37
●VHF PLL, VCO SCHEMATIC DIAGRAM .....	27	●UHF FINAL PC BOARD .....	37
●VHF PLL, VCO PC BOARD .....	27	●CTCSS SCHEMATIC DIAGRAM .....	38
		●CTCSS PC BOARD .....	39
		●DUPLEXER PC BOARD .....	40
		●TONE SQUELCH SCHEMATIC DIAGRAM ..	40

# SPECIFICATIONS

## ■ General

Frequency Coverage	144.00–147.995 MHz (TX), 130–169.995 MHz (RX) 440.00–449.995 MHz (TX) (RX) (U. S. Version) 144.00–145.9875 MHz (TX), 130–169.9875 MHz (RX) 430–440 MHz (Europe Version)
Frequency Resolution	5, 10, 12.5, 20 and 25 kHz, steps
Antenna Impedance	50 ohms unbalanced
Power Supply Requirement	13.8 Volts D. C.
Current Drain at 13.8 V	Receiving Squelched: does not exceed 600 mA Transmitting High: 45 W approx. 10.0 A at VHF Low: 5 W approx. 4.0 A at VHF High: 35 W approx. 11.0 A at UHF Low: 5 W approx. 4.0 A at UHF
Dimension	150 mm (W)×50 mm (H)×173 mm (D) (5 <sup>7</sup> / <sub>8</sub> "×2"×6 <sup>7</sup> / <sub>8</sub> ")
Weight	Approx. 1.6 kgs (3.74 lbs.)

## ■ Transmitter

Output Power	High: Approx. 45 Watts at VHF, Approx. 35 Watts at UHF Low: Approx. 5 Watts at both bands
Emission Mode	F3 (FM)
Modulation System	Variable Reactance F. M.
Max. Frequency Deviation	±5 kHz
Spurious Emission	More than 60 dB below carrier
Microphone	Electret Condenser Microphone
Operating Mode	Simplex Duplex: ±600 kHz from receive frequency at VHF : ±5 MHz from receive frequency at UHF
DTMF Encoder	Built in (DR-570T)

## ■ Receiver

Receiving System	Superheterodyne, dual Conversion
Modulation acceptance	F3 (FM)
Intermediate Frequency	1st 10.7 MHz 2nd 455 kHz at VHF 1st 30.825 MHz 2nd 455 kHz at UHF
Sensitivity	12 dB SINAD – 16 dB $\mu$
Selectivity	More than ±6 kHz at –6 dB Less than ±12 kHz at –60 dB
Audio Power Output	More than 2.0±0.5 W
Speaker Impedance	8 ohms

# PARTS LIST

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
<b>VOL Unit</b>			D2	<b>XD0112</b>	Varicap, 1SV128	R61	<b>RK0076</b>	Chip R, MCR10 330 kΩ
VR1	<b>RV0013</b>	Volume, RK0972211	D3	<b>XD0097</b>	Diode, 1SS268	R62	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ
VR2	<b>RV0012</b>	Volume, RK0972210	D4	<b>XD0100</b>	Varicap, 1SV164	R63	<b>RK0018</b>	Chip R, MCR10 100Ω
Ⓝ	<b>UE0062</b>	Post with Base, PI22B09M	D5	<b>XD0100</b>	Varicap, 1SV164	R64	<b>RK0006</b>	Chip R, MCR10 27Ω
<b>VHF Main Unit</b>			D6	<b>XD0100</b>	Varicap, 1SV164	R65	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ
R1E	<b>RK0054</b>	Chip R, MCR10 15 kΩ (DR-570E only)	D7	<b>XD0100</b>	Varicap, 1SV164	R66	<b>RK0018</b>	Chip R, MCR10 100Ω
R2E	<b>RK0052</b>	Chip R, MCR10 10 kΩ (DR-570E only)	D8	<b>XD0100</b>	Varicap, 1SV164	R67	<b>RK0035</b>	Chip R, MCR10 1 kΩ
R3E	<b>RK0052</b>	Chip R, MCR10 10 kΩ (DR-570E only)	D9	<b>XD0057</b>	Diode, 1SS184	R71	<b>RK0052</b>	Chip R, MCR10 10 kΩ
R4E	<b>RK0052</b>	Chip R, MCR10 10 kΩ (DR-570E only)	D10	<b>XD0103</b>	Diode, 1SS226	R72	<b>RK0052</b>	Chip R, MCR10 10 kΩ
R5E	<b>RK0072</b>	Chip R, MCR10 180 kΩ (DR-570E only)	D11	<b>XD0057</b>	Diode, 1SS184	R73	<b>RK0052</b>	Chip R, MCR10 10 kΩ
R6E	<b>RK0069</b>	Chip R, MCR10 100 kΩ (DR-570E only)	D12	<b>XD0057</b>	Diode, 1SS184	R74	<b>RK0056</b>	Chip R, MCR10 22 kΩ
R7E	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ (DR-570E only)	D13	<b>XD0057</b>	Diode, 1SS184	R75	<b>RK0018</b>	Chip R, MCR10 100Ω
R8E	<b>RK0045</b>	Chip R, MCR10 4.7 kΩ (DR-570E only)	D14	<b>XD0057</b>	Diode, 1SS184	R76	<b>RK0018</b>	Chip R, MCR10 100Ω
R9E	<b>RK0018</b>	Chip R, MCR10 100Ω (DR-570E only)	D15	<b>XD0104</b>	Zener Diode, 02CZ6.2Y	R77	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ
R10E	<b>RK0086</b>	Chip R, MCR10 1 MΩ (DR-570E only)	D16	<b>XD0097</b>	Diode, 1SS268	R78	<b>RK0035</b>	Chip R, MCR10 1 kΩ
R12E	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ (DR-570E only)	D17	<b>XD0058</b>	Diode, 1SS181	R79	<b>RK0056</b>	Chip R, MCR10 22 kΩ
C1E	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF (DR-570E only)	D18	<b>XD0113</b>	Zener Diode, 02CZ4.3Y	R80	<b>RK0045</b>	Chip R, MCR10 4.7 kΩ
C2E	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF (DR-570E only)	D19	<b>XD0100</b>	Varicap, 1SV164	R81	<b>RK0014</b>	Chip R, MCR10 68Ω
C3E	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF (DR-570E only)	D20	<b>XD0103</b>	Diode, 1SS226	R82	<b>RK0018</b>	Chip R, MCR10 100Ω
C4E	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF (DR-570E only)	D21	<b>XD0038</b>	Diode, 1SS133	R83	<b>RK0025</b>	Chip R, MCR10 330Ω
C5E	<b>CE0200</b>	Chemical C, UW 50 V 2.2 μF (DR-570E only)	R1	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ	R84	<b>RK0037</b>	Chip R, MCR10 1.5 kΩ
C6E	<b>CS0059</b>	Chip Tantal, TMC0J226 (DR-570E only)	R2	<b>RK0048</b>	Chip R, MCR10 6.8 kΩ	R85	<b>RK0011</b>	Chip R, MCR10 47Ω
C7E	<b>CU8038</b>	Chip C, CM316Y1E 1 μFZ (DR-570E only)	R3	<b>RK0052</b>	Chip R, MCR10 10 kΩ	R86	<b>RK0001</b>	Chip R, MCR10 10Ω
C8E	<b>CE0189</b>	Chemical C, TWSS 100 μF/16 V (DR-570E only)	R4	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ	R87	<b>RK0069</b>	Chip R, MCR10 100 kΩ
IC1E	<b>XA0097</b>	IC, NJM 4558M (DR-570E only)	R5	<b>RK0045</b>	Chip R, MCR10 4.7 kΩ	R88	<b>RK0069</b>	Chip R, MCR10 100 kΩ
IC2E	<b>XA0093</b>	IC, NJU 4069UBM (DR-570E only)	R6	<b>RK0052</b>	Chip R, MCR10 10 kΩ	R89	<b>RK0028</b>	Chip R, MCR10 470Ω
IC3E	<b>XA0092</b>	IC, NJU 4020BM (DR-570E only)	R7	<b>RK0059</b>	Chip R, MCR10 33 kΩ	R90	<b>RK0076</b>	Chip R, MCR10 330 kΩ
Q1E	<b>XU0022</b>	Digital Transistor, DTA114EK (DR-570E only)	R8	<b>RK0018</b>	Chip R, MCR10 100Ω	J1	<b>RK0107</b>	Chip R, MCR10 0Ω
X1E	<b>XB0001</b>	FAR, C4CA03580000K01 (DR-570E only)	R9	<b>RK0052</b>	Chip R, MCR10 10 kΩ	J2	<b>RK1107</b>	Chip R, MCR18 0Ω
CN TB	<b>UE0070</b>	Post with Base, PI22A04M (DR-570E only)	R10	<b>RK0018</b>	Chip R, MCR10 100Ω	J3	<b>RK0107</b>	Chip R, MCR10 0Ω
IC1	<b>XA0070</b>	IC, MC3361D	R11	<b>RK0069</b>	Chip R, MCR10 100 kΩ	C1	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
IC2	<b>XA0079</b>	IC, μPC1241H	R12	<b>RK0069</b>	Chip R, MCR10 100 kΩ	C2	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
IC3	<b>XA0091</b>	IC, TMA247	R13	<b>RK0069</b>	Chip R, MCR10 100 kΩ	C3	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q1	<b>XE0013</b>	FET, 3SK184S	R14	<b>RK0069</b>	Chip R, MCR10 100 kΩ	C4	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q2	<b>XE0017</b>	FET, 3SK179L	R15	<b>RK0035</b>	Chip R, MCR10 1 kΩ	C5	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q3	<b>XT0081</b>	Transistor, 2SC2714Y	R16	<b>RK0062</b>	Chip R, MCR10 47 kΩ	C6	<b>CU0027</b>	Chip C, C2012CH1H 47 pF
Q4	<b>XT0031</b>	Transistor, 2SC2712Y	R17	<b>RK0045</b>	Chip R, MCR10 4.7 kΩ	C7	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q5	<b>XT0031</b>	Transistor, 2SC2712Y	R18	<b>RK0011</b>	Chip R, MCR10 47Ω	C8	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q7	<b>XT0031</b>	Transistor, 2SC2712Y	R19	<b>RK0074</b>	Chip R, MCR10 270 kΩ	C9	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q8	<b>XT0031</b>	Transistor, 2SC2712Y	R20	<b>RK0018</b>	Chip R, MCR10 100Ω	C10	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF
Q9	<b>XT0031</b>	Transistor, 2SC2712Y	R22	<b>RK0039</b>	Chip R, MCR10 2.2 kΩ	C11	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q10	<b>XT0061</b>	Transistor, 2SB1132Q	R23	<b>RK0042</b>	Chip R, MCR10 3.3 kΩ	C12	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q11	<b>XT0061</b>	Transistor, 2SB1132Q	R24	<b>RK0038</b>	Chip R, MCR10 1.8 kΩ	C14	<b>CU0001</b>	Chip C, C2012CH1H 0.5 pF
Q12	<b>XU0012</b>	Digital Transistor, DTC114EK	R25	<b>RK0018</b>	Chip R, MCR10 100Ω	C15	<b>CU0029</b>	Chip C, C2012CH1H 56 pF
Q13	<b>XT0081</b>	Transistor, 2SC2714Y	R26	<b>RK0045</b>	Chip R, MCR10 4.7 kΩ	C16	<b>CU0001</b>	Chip C, C2012CH1H 0.5 pF
Q14	<b>XT0081</b>	Transistor, 2SC2714Y	R27	<b>RK0076</b>	Chip R, MCR10 330 kΩ	C17	<b>CU0029</b>	Chip C, C2012CH1H 56 pF
Q15	<b>XT0081</b>	Transistor, 2SC2714Y	R28	<b>RK0035</b>	Chip R, MCR10 1 kΩ	C18	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF
Q16	<b>XU0022</b>	Digital Transistor, DTA114EK	R29	<b>RK0065</b>	Chip R, MCR10 68 kΩ	C19	<b>CU0035</b>	Chip C, C2012CH1H 100 pF
Q17	<b>XT0077</b>	Transistor, 2SC3326A	R30	<b>RK0042</b>	Chip R, MCR10 3.3 kΩ	C20	<b>CU0011</b>	Chip C, C2012CH1H 5 pF
Q18	<b>XT0030</b>	Transistor, 2SC3356	R31	<b>RK0059</b>	Chip R, MCR10 33 kΩ	C21	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q19	<b>XT0081</b>	Transistor, 2SC2714Y	R32	<b>RK0042</b>	Chip R, MCR10 3.3 kΩ	C22	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q20	<b>XT0084</b>	Transistor, 2SC2954	R33	<b>RK0048</b>	Chip R, MCR10 6.8 kΩ	C23	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
Q21	<b>XU0003</b>	Digital Transistor, DTC114TK	R34	<b>RK0076</b>	Chip R, MCR10 330 kΩ	C24	<b>CU0004</b>	Chip C, C2012CH1H 3 pF
D1	<b>XD0057</b>	Diode, 1SS184	R35	<b>RK0044</b>	Chip R, MCR10 3.9 kΩ	C25	<b>CU0015</b>	Chip C, C2012CH1H 15 pF
			R36	<b>RK0076</b>	Chip R, MCR10 330 kΩ	C26	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R37	<b>RK0044</b>	Chip R, MCR10 3.9 kΩ	C27	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R38	<b>RK0028</b>	Chip R, MCR10 470Ω	C28	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R39	<b>RK0052</b>	Chip R, MCR10 10 kΩ	C29	<b>CU0025</b>	Chip C, C2012CH1H 39 pF
			R40	<b>RK0069</b>	Chip R, MCR10 100 kΩ	C30	<b>CU0035</b>	Chip C, C2012CH1H 100 pF
			R41	<b>RK0035</b>	Chip R, MCR10 1 kΩ	C31	<b>CU8003</b>	Chip C, C2012B1H 0.1 μF
			R42	<b>RK0025</b>	Chip R, MCR10 330Ω	C32	<b>CU8003</b>	Chip C, C2012B1H 0.1 μF
			R43	<b>RK0106</b>	Chip R, MCR10 3.3Ω	C33	<b>CU8005</b>	Chip C, C2012B1H 0.0022 μF
			R44	<b>RK0056</b>	Chip R, MCR10 22 kΩ	C34	<b>CU8003</b>	Chip C, C2012B1H 0.1 μF
			R45	<b>RK0062</b>	Chip R, MCR10 47 kΩ	C35	<b>CU8006</b>	Chip C, C2012B1E 0.022 μF
			R46	<b>RK0056</b>	Chip R, MCR10 22 kΩ	C36	<b>CU0035</b>	Chip C, C2012CH1H 100 pF
			R47	<b>RK0076</b>	Chip R, MCR10 330 kΩ	C37	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R48	<b>RK0056</b>	Chip R, MCR10 22 kΩ	C38	<b>CU8002</b>	Chip C, C2012B1H 0.01 μF
			R49	<b>RK0062</b>	Chip R, MCR10 47 kΩ	C39	<b>CS0060</b>	Chip Tantal, TMC1E474
			R50	<b>RK0052</b>	Chip R, MCR10 10 kΩ	C40	<b>CE0188</b>	Chemical C, TWSS 47 μF/16 V
			R51	<b>RK0052</b>	Chip R, MCR10 10 kΩ	C41	<b>CU8003</b>	Chip C, C2012B1H 0.1 μF
			R52	<b>RK0038</b>	Chip R, MCR10 1.8 kΩ	C42	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R53	<b>RK0038</b>	Chip R, MCR10 1.8 kΩ	C43	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R54	<b>RK0052</b>	Chip R, MCR10 10 kΩ	C44	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R55	<b>RK0062</b>	Chip R, MCR10 47 kΩ	C45	<b>CU8006</b>	Chip C, C2012B1E 0.022 μF
			R56	<b>RK0062</b>	Chip R, MCR10 47 kΩ	C46	<b>CU8001</b>	Chip C, C2012B1H 0.001 μF
			R57	<b>RK0052</b>	Chip R, MCR10 10 kΩ			
			R58	<b>RK0056</b>	Chip R, MCR10 22 kΩ			
			R59	<b>RK0035</b>	Chip R, MCR10 1 kΩ			
			R60	<b>RK0018</b>	Chip R, MCR10 100Ω			

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
C47	CU8002	Chip C, C2012B1H 0.01 µF	L13	QC0067	Chip Coil, NL322522T-R10M	Q3	XE0013	FET, 3SK 184S
C48	CE0189	Chemical C, TWSS 100 µF/16 V	L14	QC0062	Chip Coil, NL322522T-039M	Q4	XT0081	Transistor, 2SC2714Y
C49	CE0188	Chemical C, TWSS 47 µF/16 V	CF1	XC0001	Ceramic Filter, CFW455F	Q5	XT0031	Transistor, 2SC2712Y
C50	CE0188	Chemical C, TWSS 47 µF/16 V	XF1	XF0004	X'tal Filter, 49/U 10.7 MHz	Q6	XT0031	Transistor, 2SC2712Y
C52	CE0188	Chemical C, TWSS 47 µF/16 V	X1	XQ0033	X'tal, 49/U 10.245 MHz	Q7	XT0017	Transistor, 2SA1162Y
C55	CU8003	Chip C, C2012B1H 0.1 µF	X2	XQ0038	X'tal, HC-49/U 12.8 MHz	Q8	XT0041	Transistor, FMW1
C56	CU8034	Chip C, C2012B1E 0.033 µF	TH1	XS0004	Thermistor, TD5150D	Q9	XT0041	Transistor, FMW1
C57	CU8001	Chip C, C2012B1H 0.001 µF				Q10	XT0031	Transistor, 2SC2712Y
C58	CE0188	Chemical C, TWSS 47 µF/16 V				Q11	XT0031	Transistor, 2SC2712Y
C59	CE0181	Chemical C, TWSS 470 µF/10 V				Q12	XT0087	Transistor, 2SC2759U23
C61	CS0065	Chip Tantal, TMC1D684				Q13	XT0077	Transistor, 2SC3326A
C62	CS0065	Chip Tantal, TMC1D684				Q14	XU0012	Digital Transistor, DTC114EK
C63	CS0049	Chip Tantal, TMC1C105				Q15	XT0087	Transistor, 2SC2759U23
C64	CU8001	Chip C, C2012B1H 0.001 µF				Q16	XT0048	Transistor, 2SC3357
C65	CU0019	Chip C, C2012CH1H 22 pF				Q17	XT0078	Transistor, 2SC3369
C66	CU0035	Chip C, C2012CH1H 100 pF	TC1	CT0028	Trimmer C, ECRJA006A12	Q18	XT0061	Transistor, 2SB1132Q
C67	CU0043	Chip C, C2012CH1H 220 pF				Q19	XT0061	Transistor, 2SB1132Q
C68	CU8002	Chip C, C2012B1H 0.01 µF	VR1	RH0054	VR, CVR-42A-224AW1D	Q20	XU0012	Digital Transistor, DTC114EK
C69	CU8001	Chip C, C2012B1H 0.001 µF	VR2	RH0037	VR, CVR-42A-471AW1D	Q21	XT0031	Transistor, 2SC2712Y
C70	CU0006	Chip C, C2012CH1H 5 pF	VR3	RH0031	VR, CVR-42A-103AW1D	Q22	XT0031	Transistor, 2SC2712Y
C71	CU8001	Chip C, C2012B1H 0.001 µF				Q23	XT0031	Transistor, 2SC2712Y
C72	CU8001	Chip C, C2012B1H 0.001 µF	⊙	UE0043	Post with Base, PI22A02M	Q24	XU0003	Digital Transistor, DTC114TK
C73	CS0049	Chip Tantal, TMC1C105	①	UE0043	Post with Base, PI22A02M	D1	XD0057	Diode, 1SS184
C74	CU8001	Chip C, C2012B1H 0.001 µF	SP	UE0043	Post with Base, PI22A02M	D2	XD0103	Diode, 1SS226
C75	CU8002	Chip C, C2012B1H 0.01 µF	Ⓞ	UE0043	Post with Base, PI22A02M	D3	XD0057	Diode, 1SS184
C76	CU8002	Chip C, C2012B1H 0.01 µF	Ⓞ	UE0050	Post with Base, PI22A08M	D4	XD0104	Zener Diode, 02CZ6.2Y
C77	CU8002	Chip C, C2012B1H 0.01 µF	Ⓞ	UE0069	Post with Base, PI22A03M	D5	XD0112	Vancap, 1SV128
C78	CU8001	Chip C, C2012B1H 0.001 µF	Ⓞ	UE0071	Post with Base, PI22A05M	D6	XD0112	Vancap, 1SV128
C79	CU8003	Chip C, C2012B1H 0.1 µF	Ⓞ	UE0071	Post with Base, PI22A05M	D7	XD0057	Diode, 1SS184
C80	CU8001	Chip C, C2012B1H 0.001 µF	Ⓞ	UE0070	Post with Base, PI22A04M (DR-570E only)	D8	XD0057	Diode, 1SS184
C81	CU8002	Chip C, C2012B1H 0.01 µF	Ⓞ	UE0070	Post with Base, PI22A04M (DR-570E only)	D9	XD0115	Zener Diode, 1SS196
C82	CU8001	Chip C, C2012B1H 0.001 µF	Ⓞ	UE0070	Post with Base, PI22A04M (DR-570E only)	D10	XD0057	Diode, 1SS184
C83	CU8001	Chip C, C2012B1H 0.001 µF	PJ1	UE0041	Mini Pin Jack, TMP-J01X-V6	D11	XD0057	Diode, 1SS184
C84	CE0188	Chemical C, TWSS 47 µF/16 V	W32	UX0131	Line Material, 570HX	D12	XD0058	Diode, 1SS181
C85	CU8001	Chip C, C2012B1H 0.001 µF	<b>UHF Main Unit</b>			D13	XD0058	Diode, 1SS181
C86	CU0035	Chip C, C2012CH1H 100 pF	TC1	CT0021	Trimmer C, ECRJA010A12	D14	XD0113	Zener Diode, 02CZ4.3Y
C87	CU0035	Chip C, C2012CH1H 100 pF	TC2	CT0028	Trimmer C, ECRJA006A12	D15	XD0057	Diode, 1SS184
C88	CU0035	Chip C, C2012CH1H 100 pF	TC3	CT0028	Trimmer C, ECRJA006A12	D16	XD0057	Diode, 1SS184
C89	CU0004	Chip C, C2012CH1H 3 pF	VR1	RH0031	VR, CVR-42A-103AW1D	L1	QK0050	Air Core Coil, 5×5 Square
C90	CE0178	Chemical C, TWSS 220 µF/10 V	VR2	RH0037	VR, CVR-42A-471AW1D	L2	QK0036	Air Core Coil, 3Ø 1.5T
C91	CU8001	Chip C, C2012B1H 0.001 µF	VR3	RH0031	VR, CVR-42A-103AW1D	L3	QA0061	Coil, 435M×2-10 MHz
C92	CU8001	Chip C, C2012B1H 0.001 µF	VR4	RH0038	VR, CVR-42A-473AW1D	L4	QA0061	Coil, 435M×2-10 MHz
C93	CE0078	Chemical C, MS9 100 µF/25 V	VR5	RH0051	VR, CVR-42A-472AW1D	L5	QC0055	Chip Coil, NL322522T-010M (DR-570E only)
C94	CU0051	Chip C, C2012CH1H 470 pF	VR6	RH0038	VR, CVR-42A-473AW1D	L5	QC0057	Chip Coil, NL322522T-015M (DR-570T only)
C95	CU8001	Chip C, C2012B1H 0.001 µF	VR7	RH0031	VR, CVR-42A-103AW1D	L6	QK0050	Air Core Coil, 5×5 Square
C96	CU0051	Chip C, C2012CH1H 470 pF	Ⓐ	UE0072	Post with Base, PI22A06M	L7	QC0071	Chip Coil, NL322522T-R22M
C97	CU8001	Chip C, C2012B1H 0.001 µF	Ⓑ	UE0071	Post with Base, PI22A05M	L8	QA0042	Coil
C98	CU8001	Chip C, C2012B1H 0.001 µF	Ⓒ	UE0043	Post with Base, PI22A02M	L9	QA0043	Coil
C99	CU0015	Chip C, C2012CH1H 15 pF	Ⓓ	UE0071	Post with Base, PI22A05M	L10	QC0039	Chip Coil, NL322522T-1R0M
C100	CE0044	Chemical C, MSS 10 µF/16 V	Ⓔ	UE0043	Post with Base, PI22A02M	L11	QA0041	Coil, 455 kHz
C101	CU0051	Chip C, C2012CH1H 470 pF	Ⓕ	UE0072	Post with Base, PI22A06M	L12	QC0059	Chip Coil, NL322522T-022M
C102	CU8001	Chip C, C2012B1H 0.001 µF				L13	QC0061	Chip Coil, NL322522T-033M
C103	CU8001	Chip C, C2012B1H 0.001 µF	PJ1	UE0075	Mini Pin Jack, TMP-J01X-A2	L14	QC0055	Chip Coil, NL322522T-010M
C104	CU0051	Chip C, C2012CH1H 470 pF	PJ2	UE0075	Mini Pin Jack, TMP-J01X-A2	L15	QC0055	Chip Coil, NL322522T-010M
C105	CU8001	Chip C, C2012B1H 0.001 µF	PJ3	UE0041	Mini Pin Jack, TMP-J01X-V6	L16	QC0055	Chip Coil, NL322522T-010M
C106	CU0019	Chip C, C2012CH1H 22 pF	XF1	XF0005	X'tal Filter, UM-2 30.825 MHz	L17	QK0039	Air Core Coil, 0.8-3Ø-2.5T
C107	CU8001	Chip C, C2012B1H 0.001 µF	CF1	XC0001	Ceramic Filter, CFW455F	L18	QK0054	Air Core Coil, 0.8-3Ø-1.5T
C108	CU8001	Chip C, C2012B1H 0.001 µF	X1	XQ0034	X'tal Filter, HC-49/T 30.37 MHz	C1	CU0035	Chip C, C2012CH1H 100 pF
C109	CU8001	Chip C, C2012B1H 0.001 µF	TH1	XS0004	Thermistor, TD5 150D	C2	CU0004	Chip C, C2012CH1H 3 pF
C110	CU0029	Chip C, C2012CH1H 56 pF				C3	CU0035	Chip C, C2012CH1H 100 pF
C111	CU0011	Chip C, C2012CH1H 10 pF				C4	CU8001	Chip C, C2012B1H 0.001 µF
C112	CU0011	Chip C, C2012CH1H 10 pF				C5	CU8001	Chip C, C2012B1H 0.001 µF
C113	CU8001	Chip C, C2012B1H 0.001 µF				C6	CU8001	Chip C, C2012B1H 0.001 µF
C114	CU0023	Chip C, C2012CH1H 33 pF				C7	CU0002	Chip C, C2012CH1H 1 pF
L1	QC0045	Chip Coil, NL322522T-3R3M				C8	CU0025	Chip C, C2012CH1H 39 pF
L2	QA0057	Coil, Front End BPF				C9	CU8001	Chip C, C2012B1H 0.001 µF
L3	QA0057	Coil, Front End BPF				C10	CU8001	Chip C, C2012B1H 0.001 µF
L4	QA0057	Coil, Front End BPF				C11	CU8001	Chip C, C2012B1H 0.001 µF
L5	QA0057	Coil, Front End BPF				C12	CU0002	Chip C, C2012CH1H 1 pF (DR-570E only)
L6	QA0058	Coil				C13	CU0023	Chip C, C2012CH1H 33 pF
L7	QA0039	Coil				C14	CU8001	Chip C, C2012B1H 0.001 µF
L8	QA0039	Coil	IC1	XA0070	IC, MC3361D			
L9	QA0041	Coil, 455 kHz	IC2	XA0075	IC, NJM78L08UA-TE1			
L10	QC0050	Chip Coil, LQH4N-102K	Q1	XE0013	FET, 3SK 184S			
L11	QC0034	Chip Coil, NL322522T-R39M	Q2	XE0002	FET, 2SK 125			
L12	QC0065	Chip Coil, NL322522T-068M						



Ref. No.	Part Code	Part Name and Number
C11	CS0060	Chip Tantal, TMC1E474
C12	CU8002	Chip C, C2012B1H 0.01 μF
C13	CU8001	Chip C, C2012B1H 0.001 μF
C14	CU0006	Chip C, C2012CH1H 5 pF
C15	CU8001	Chip C, C2012B1H 0.001 μF
L1	QC0045	Chip Coil, NL322522T-3R3M
<b>VHF VCO Unit</b>		
Q1	XE0010	FET, 2SK508K52
Q2	XT0081	Transistor, 2SC2714Y
D1	XD0101	Varicap, 1SV166
D2	XD0101	Varicap, 1SV166
L1	QC0045	Chip Coil, NL322522T-3R3M
L2	QC0045	Chip Coil, NL322522T-3R3M
L3	QC0045	Chip Coil, NL322522T-3R3M
L4	QA0059	Coil
L5	QC0069	Chip Coil, NL322522T-R15K
R1	RK0052	Chip R, MCR10 10 kΩ
R2	RK0018	Chip R, MCR10 100Ω
R3	RK0025	Chip R, MCR10 330Ω
R4	RK0011	Chip R, MCR10 47Ω
R6	RK0018	Chip R, MCR10 100Ω
R7	RK0045	Chip R, MCR10 4.7 kΩ
R8	RK0030	Chip R, MCR10 560Ω
R9	RK0018	Chip R, MCR10 100Ω
J1	RK0107	Chip R, MCR10 0Ω
C1	CU8001	Chip C, C2012B1H 0.001 μF
C2	CU8024	Chip C, C2012B1H 0.0047 μF
C3	CU8001	Chip C, C2012B1H 0.001 μF
C4	CU0001	Chip C, C2012CH1H 0.5 pF
C5	CU8024	Chip C, C2012B1H 0.0047 μF
C6	CU8024	Chip C, C2012B1H 0.0047 μF
C7	CU8001	Chip C, C2012B1H 0.001 μF
C8	CU8001	Chip C, C2012B1H 0.001 μF
C9	CU8001	Chip C, C2012B1H 0.001 μF
C10	CU0003	Chip C, C2012CH1H 2 pF
C11	CU0019	Chip C, C2012CH1H 22 pF
<b>UHF PLL Unit</b>		
IC1	XA0090	IC, M54959FP
Q1	XT0080	Transistor, 2SC3324B
Q2	XT0080	Transistor, 2SC3324B
Q3	XT0080	Transistor, 2SC3324B
Q4	XT0082	Transistor, 2SC3120
CN1	UE0079	Pin Header, SB2P-HVQ-CA
CN2	UE0081	Pin Header, SB6P-HVQ-CA
CN3	UE0088	Pin Header, 6027B-07Z003-T
CN4	UE0085	Pin Header, 6027B-04Z003-T
R1	RK0062	Chip R, MCR10 47 kΩ
R2	RK0062	Chip R, MCR10 47 kΩ
R3	RK0062	Chip R, MCR10 47 kΩ
R4	RK0062	Chip R, MCR10 47 kΩ
R5	RK0062	Chip R, MCR10 47 kΩ
R6	RK0022	Chip R, MCR10 220Ω
R7	RK0040	Chip R, MCR10 2.7 kΩ
R8	RK0050	Chip R, MCR10 8.2 kΩ
R9	RK0052	Chip R, MCR10 10 kΩ
R10	RK0039	Chip R, MCR10 2.2 kΩ
R11	RK0079	Chip R, MCR10 470 kΩ
R12	RK0039	Chip R, MCR10 2.2 kΩ
R13	RK0025	Chip R, MCR10 330Ω
R14	RK0045	Chip R, MCR10 4.7 kΩ
R15	RK0039	Chip R, MCR10 2.2 kΩ
R16	RK0052	Chip R, MCR10 10 kΩ
R17	RK0062	Chip R, MCR10 47 kΩ

Ref. No.	Part Code	Part Name and Number
C1	CU8006	Chip C, C2012B1E 0.022 μF
C2	CU8001	Chip C, C2012B1H 0.001 μF
C3	CU8006	Chip C, C2012B1E 0.022 μF
C4	CU8006	Chip C, C2012B1E 0.022 μF
C5	CU8007	Chip C, C2012Y1H 0.047 μF
C6	CU8006	Chip C, C2012B1E 0.022 μF
C7	CS0057	Chip Tantal, TMC0J225
C8	CS0057	Chip Tantal, TMC0J225
C9	CS0063	Chip Tantal, TMC1V104
C10	CU0051	Chip C, C2012CH1H 470 pF
C11	CU8002	Chip C, C2012B1H 0.01 μF
C12	CU8001	Chip C, C2012B1H 0.001 μF
C13	CU0011	Chip C, C2012CH1H 10 pF
C14	CU0011	Chip C, C2012CH1H 10 pF
L1	QC0055	Chip Coil, NL322522T-010M
<b>UHF VCO Unit</b>		
Q1	XE0010	FET, 2SK508K52
Q2	XT0082	Transistor, 2SC3120
Q3	XT0031	Transistor, 2SC2712Y
D1	XD0100	Varicap, 1SV164
D2	XD0100	Varicap, 1SV164
D3	XD0111	Diode, HSK277
D4	XD0100	Varicap, 1SV164
L1	QC0094	Chip L, MLFLER015TR22M
L2	QC0094	Chip L, MLFLER015TR22M
L3	QK0075	Air Core Coil 0.6-2X5T-RM
L4	QC0094	Chip L, MLFLER015TR22M
L5	QC0034	Chip Coil, LER015TR39M
TC1	CT0028	Trimmer C, ECRJA006A12
TC1	CT0028	Trimmer C, ECRJA006A12
R1	RK0107	Chip R, MCR10 0Ω
R2	RK0062	Chip R, MCR10 47 kΩ
R3	RK0045	Chip R, MCR10 4.7 kΩ
R4	RK0045	Chip R, MCR10 4.7 kΩ
R5	RK0050	Chip R, MCR10 8.2 kΩ
R6	RK0045	Chip R, MCR10 4.7 kΩ
R7	RK0011	Chip R, MCR10 47Ω
R8	RK0011	Chip R, MCR10 47Ω
R9	RK0018	Chip R, MCR10 100Ω
R10	RK0062	Chip R, MCR10 4.7 kΩ
R11	RK0028	Chip R, MCR10 470Ω
C1	CU0051	Chip C, C2012CH1H 470 pF
C2	CU0029	Chip C, C2012CH1H 56 pF
C3	CU8001	Chip C, C2012B1H 0.001 μF
C4	CU0006	Chip C, C2012CH1H 5 pF
C5	CU0006	Chip C, C2012CH1H 5 pF
C6	CU0001	Chip C, C2012CH1H 0.5 pF
C8	CU0010	Chip C, C2012CH1H 9 pF
C9	CU0009	Chip C, C2012CH1H 8 pF
C10	CU8001	Chip C, C2012B1H 0.001 μF
C11	CU0002	Chip C, C2012CH1H 1 pF
C12	CU8001	Chip C, C2012B1H 0.001 μF
C13	CU0051	Chip C, C2012CH1H 470 pF
<b>CPU Unit</b>		
IC1	XA0088	IC, μPD75112GF-517-3BE
IC2	XA0089	IC, NJM78L06UA
Q1	XT0031	Transistor, 2SC2712Y
Q2	XT0031	Transistor, 2SC2712Y
Q3	XU0012	Transistor, DTC114EK
Q4	XT0061	Transistor, 2SB1132Q
D1	XD0057	Diode, 1SS184
D2	XD0057	Diode, 1SS184
D4	XD0057	Diode, 1SS184
D5	XD0057	Diode, 1SS184 (DR-570E only)
D6	XD0057	Diode, 1SS184

Ref. No.	Part Code	Part Name and Number
X1	XB0002	FAR, C4CA0419000K01
R1	RK0051	Chip R, MCR10 9.1 kΩ
R2	RK0069	Chip R, MCR10 100 kΩ
R3	RK0079	Chip R, MCR10 470 kΩ
R4	RK0079	Chip R, MCR10 470 kΩ
R5	RK0064	Chip R, MCR10 56 kΩ
R6	RK0062	Chip R, MCR10 47 kΩ
R7	RK0035	Chip R, MCR10 1 kΩ
R8	RK0035	Chip R, MCR10 1 kΩ
R9	RK0035	Chip R, MCR10 1 kΩ
R10	RK0035	Chip R, MCR10 1 kΩ
R11	RK0062	Chip R, MCR10 47 kΩ
R12	RK0062	Chip R, MCR10 47 kΩ
R13	RK0062	Chip R, MCR10 47 kΩ
R22	RK0062	Chip R, MCR10 47 kΩ
R23	RK0062	Chip R, MCR10 47 kΩ
R24	RK0062	Chip R, MCR10 47 kΩ
R25	RK0062	Chip R, MCR10 47 kΩ
R26	RK0062	Chip R, MCR10 47 kΩ
R27	RK0062	Chip R, MCR10 47 kΩ
R28	RK0062	Chip R, MCR10 47 kΩ
R29	RK0062	Chip R, MCR10 47 kΩ
R30	RK0062	Chip R, MCR10 47 kΩ
R31	RK0062	Chip R, MCR10 47 kΩ
R32	RK0062	Chip R, MCR10 47 kΩ
R33	RK0062	Chip R, MCR10 47 kΩ
R34	RK0062	Chip R, MCR10 47 kΩ
R35	RK0062	Chip R, MCR10 47 kΩ
R36	RK0062	Chip R, MCR10 47 kΩ
R37	RK0062	Chip R, MCR10 47 kΩ
R38	RK0062	Chip R, MCR10 47 kΩ
R39	RK0062	Chip R, MCR10 47 kΩ
R40	RK0062	Chip R, MCR10 47 kΩ
R44	RK0052	Chip R, MCR10 10 kΩ
R45	RK0062	Chip R, MCR10 47 kΩ
R46	RK0107	Chip R, MCR10 0Ω (DR-570T only)
R47	RK0070	Chip R, MCR10 120 kΩ (DR-570E only)
R48	RK0035	Chip R, MCR10 1 kΩ
R49	RK0037	Chip R, MCR10 1.5 kΩ
R50	RK0037	Chip R, MCR10 1.5 kΩ
R51	RD1010	R, 3.3Ω ½ W
R52	RD1011	R, 22Ω ½ W
J1	RD0108	Jumper, JPW01R-01
J2	RD0108	Jumper, JPW01R-01 (DR-570T only)
J3	RD0108	Jumper, JPW01R-01 (DR-570E only)
J4	RD0108	Jumper, JPW01R-01 (DR-570E only)
J5	RD0108	Jumper, JPW01R-01
J10	RK1107	Chip R, MCR18 0Ω
J11	RK1107	Chip R, MCR18 0Ω
J12	RK1107	Chip R, MCR18 0Ω
J13	RK1107	Chip R, MCR18 0Ω
J14	RK1107	Chip R, MCR18 0Ω
J15	RK1107	Chip R, MCR18 0Ω
C1	CU8002	Chip C, C2012B1H 0.01 μF
C2	CU8006	Chip C, C2012B1E 0.022 μF
C3	CE0037	Chemical C, MS5 100 μF/6 V
C4	CE0037	Chemical C, MS5 100 μF/6 V
C5	CU8038	Chip C, CM316Y1E 1 μFZ
C6	CU8001	Chip C, C2012B1H 0.001 μF
C7	CU8001	Chip C, C2012B1H 0.001 μF
C8	CU8001	Chip C, C2012B1H 0.001 μF
C9	CU8003	Chip C, C2012B1H 0.1 μF
C10	CU8001	Chip C, C2012B1H 0.001 μF
C11	CE0037	Chemical C, MS5 100 μF/6 V
C12	CU8003	Chip C, C2012B1H 0.1 μF (DR-570E only)
RE1	UR0002	Rotary Encoder, EVQ-WOGF1524B
RE2	UR0003	Rotary Encoder, EVQ-WT2F2006B
LP1	EP0006	Lamp, BQ031-30659A
LP2	EP0006	Lamp, BQ031-30659A
LP3	EP0006	Lamp, BQ031-30659A
LP4	EP0006	Lamp, BQ031-30659A

Ref. No.	Part Code	Part Name and Number
LP5	EP0006	Lamp, BQ031-30659A
LP6	EP0006	Lamp, BQ031-30659A
LB1	ED0001	Lithium Battery, M2BC200
S1	UU0007	Tact Switch, EVQ-QEC-04K
S2	UU0007	Tact Switch, EVQ-QEC-04K
S3	UU0007	Tact Switch, EVQ-QEC-04K
S4	UU0007	Tact Switch, EVQ-QEC-04K
S5	UU0007	Tact Switch, EVQ-QEC-04K
S6	UU0007	Tact Switch, EVQ-QEC-04K
S7	UU0007	Tact Switch, EVQ-QEC-04K
S8	UU0007	Tact Switch, EVQ-QEC-04K
S9	UU0007	Tact Switch, EVQ-QEC-04K
S10	UU0007	Tact Switch, EVQ-QEC-04K
S11	UU0007	Tact Switch, EVQ-QEC-04K
S12	UU0007	Tact Switch, EVQ-QEC-04K
S13	UU0007	Tact Switch, EVQ-QEC-04K
S14	UU0007	Tact Switch, EVQ-QEC-04K
S15	UQ0011	Push Switch, ESB64801
CN1	UE0035	Mic Connector, FM214-8SMPY
	FP0034	Mic Spacer
VR1	RH0031	VR, CVR-42A-103AW1D (DR-570E only)

### Control Unit

IC1	XA0097	IC, NJM4558M
IC2	XA0097	IC, NJM4558M
IC3	XA0095	IC, NJU4066BM
IC4	XA0019	IC, $\mu$ PD4094BG
IC5	XA0094	IC, NJM78M08FA
Q1	XU0012	Transistor, DTC114EK (DR-570E only)
Q2	XU0012	Transistor, DTC114EK
Q3	XU0012	Transistor, DTC114EK (DR-570E only)
Q4	XT0031	Transistor, 2SC2712Y
Q5	XT0031	Transistor, 2SC2712Y
Q6	XT0031	Transistor, 2SC2712Y
Q7	XT0031	Transistor, 2SC2712Y
Q8	XT0076	Transistor, 2SC3295B
Q9	XT0076	Transistor, 2SC3295B
Q10	XT0031	Transistor, 2SC2712Y
Q11	XT0031	Transistor, 2SC2712Y
Q12	XT0031	Transistor, 2SC2712Y
Q13	XT0031	Transistor, 2SC2712Y
Q14	XT0031	Transistor, 2SC2712Y
Q15	XT0076	Transistor, 2SC3295B
Q16	XT0076	Transistor, 2SC3295B
Q17	XT0031	Transistor, 2SC2712Y
Q18	XU0012	Transistor, DTC114EK (DR-570E only)
Q19	XT0031	Transistor, 2SC2712Y
Q20	XU0012	Transistor, DTC114EK
Q21	XT0077	Transistor, 2SC3326A
Q22	XT0077	Transistor, 2SC3326A
Q23	XT0031	Transistor, 2SC2712Y
D1	XD0103	Diode, 1SS226
D2	XD0103	Diode, 1SS226
D3	XD0103	Diode, 1SS226
D4	XD0103	Diode, 1SS226
R1	RK0052	Chip R, MCR10 10 k $\Omega$
R2	RK0039	Chip R, MCR10 2.2 k $\Omega$ (DR-570E only)
R3	RK0057	Chip R, MCR10 27 k $\Omega$
R4	RK0079	Chip R, MCR10 470 k $\Omega$
R5	RK0039	Chip R, MCR10 2.2 k $\Omega$
R6	RK0081	Chip R, MCR10 560 k $\Omega$
R7	RK0062	Chip R, MCR10 47 k $\Omega$
R8	RK0069	Chip R, MCR10 100 k $\Omega$
R9	RK0062	Chip R, MCR10 47 k $\Omega$
R10	RK0040	Chip R, MCR10 2.7 k $\Omega$
R11	RK0081	Chip R, MCR10 560 k $\Omega$
R12	RK0040	Chip R, MCR10 2.7 k $\Omega$

Ref. No.	Part Code	Part Name and Number
R13	RK0020	Chip R, MCR10 150 $\Omega$
R14	RK0052	Chip R, MCR10 10 k $\Omega$
R15	RK0042	Chip R, MCR10 3.3 k $\Omega$
R16	RK0056	Chip R, MCR10 22 k $\Omega$
R17	RK0048	Chip R, MCR10 6.8 k $\Omega$
R18	RK0079	Chip R, MCR10 470 k $\Omega$
R19	RK0069	Chip R, MCR10 100 k $\Omega$
R20	RK0045	Chip R, MCR10 4.7 k $\Omega$
R21	RK0035	Chip R, MCR10 1 k $\Omega$
R22	RK0056	Chip R, MCR10 22 k $\Omega$
R23	RK0061	Chip R, MCR10 39 k $\Omega$
R24	RK0010	Chip R, MCR10 39 $\Omega$
R25	RK0040	Chip R, MCR10 2.7 k $\Omega$
R28	RK0039	Chip R, MCR10 2.2 k $\Omega$ (DR-570T only)
R29	RK0035	Chip R, MCR10 1 k $\Omega$
R30	RK0039	Chip R, MCR10 2.2 k $\Omega$
R31	RK0042	Chip R, MCR10 3.3 k $\Omega$ (DR-570E only)
R31	RK0037	Chip R, MCR10 1.5 k $\Omega$ (DR-570T only)
R32	RK0052	Chip R, MCR10 10 k $\Omega$
R33	RK0076	Chip R, MCR10 330 k $\Omega$ (DR-570E only)
R33	RK0071	Chip R, MCR10 150 k $\Omega$ (DR-570T only)
R34	RK0030	Chip R, MCR10 560 $\Omega$
R35	RK0047	Chip R, MCR10 5.6 k $\Omega$
R36	RK0054	Chip R, MCR10 15 k $\Omega$
R37	RK0086	Chip R, MCR10 1 M $\Omega$
R38	RK0047	Chip R, MCR10 5.6 k $\Omega$
R39	RK0018	Chip R, MCR10 100 $\Omega$
R40	RK0072	Chip R, MCR10 180 k $\Omega$
R41	RK0073	Chip R, MCR10 220 k $\Omega$
R42	RK0062	Chip R, MCR10 47 k $\Omega$
R43	RK0059	Chip R, MCR10 33 k $\Omega$
R44	RK0062	Chip R, MCR10 47 k $\Omega$
R45	RK0073	Chip R, MCR10 220 k $\Omega$
R46	RK0076	Chip R, MCR10 330 k $\Omega$
R47	RK0067	Chip R, MCR10 82 k $\Omega$
R48	RK0067	Chip R, MCR10 82 k $\Omega$
R49	RK0067	Chip R, MCR10 82 k $\Omega$
R50	RK0052	Chip R, MCR10 10 k $\Omega$
R51	RK0052	Chip R, MCR10 10 k $\Omega$
R52	RK0039	Chip R, MCR10 2.2 k $\Omega$
R53	RK0079	Chip R, MCR10 470 k $\Omega$
R54	RK0022	Chip R, MCR10 220 $\Omega$
R55	RK0069	Chip R, MCR10 100 k $\Omega$
R56	RK0069	Chip R, MCR10 100 k $\Omega$
R57	RK0033	Chip R, MCR10 820 $\Omega$
R58	RK0052	Chip R, MCR10 10 k $\Omega$
R59	RK0039	Chip R, MCR10 2.2 k $\Omega$
R60	RK0052	Chip R, MCR10 10 k $\Omega$
R61	RK0057	Chip R, MCR10 27 k $\Omega$
R62	RK0079	Chip R, MCR10 470 k $\Omega$
R63	RK0039	Chip R, MCR10 2.2 k $\Omega$
R64	RK0028	Chip R, MCR10 470 $\Omega$
R65	RK0081	Chip R, MCR10 560 k $\Omega$
R66	RK0040	Chip R, MCR10 2.7 k $\Omega$
R67	RK0081	Chip R, MCR10 560 k $\Omega$
R68	RK0040	Chip R, MCR10 2.7 k $\Omega$
R69	RK0020	Chip R, MCR10 150 $\Omega$
R70	RK0018	Chip R, MCR10 100 $\Omega$
R71	RK0042	Chip R, MCR10 3.3 k $\Omega$
R72	RK0056	Chip R, MCR10 22 k $\Omega$
R73	RK0052	Chip R, MCR10 10 k $\Omega$
R74	RK0048	Chip R, MCR10 6.8 k $\Omega$
R75	RK0069	Chip R, MCR10 100 k $\Omega$
R76	RK0079	Chip R, MCR10 470 k $\Omega$
R77	RK0045	Chip R, MCR10 4.7 k $\Omega$
R78	RK0035	Chip R, MCR10 1 k $\Omega$
R79	RK0056	Chip R, MCR10 22 k $\Omega$
R80	RK0061	Chip R, MCR10 39 k $\Omega$
R81	RK0040	Chip R, MCR10 2.7 k $\Omega$
R82	RK0010	Chip R, MCR10 39 $\Omega$
R84	RK0069	Chip R, MCR10 100 k $\Omega$
R85	RK0035	Chip R, MCR10 1 k $\Omega$
R86	RK0042	Chip R, MCR10 3.3 k $\Omega$
R87	RK0042	Chip R, MCR10 3.3 k $\Omega$
R88	RK0069	Chip R, MCR10 100 k $\Omega$
R89	RK0045	Chip R, MCR10 4.7 k $\Omega$
R90	RK0045	Chip R, MCR10 4.7 k $\Omega$

Ref. No.	Part Code	Part Name and Number
R91	RK0056	Chip R, MCR10 22 k $\Omega$
R92	RK0056	Chip R, MCR10 22 k $\Omega$
R93	RK0035	Chip R, MCR10 1 k $\Omega$
J1	RK0107	Chip R, MCR10 0 $\Omega$
J2	RK0107	Chip R, MCR10 0 $\Omega$
J3	RK0107	Chip R, MCR10 0 $\Omega$
J4	RK0107	Chip R, MCR10 0 $\Omega$
J5	RK0107	Chip R, MCR10 0 $\Omega$
J6	RK0107	Chip R, MCR10 0 $\Omega$
J7	RK0107	Chip R, MCR10 0 $\Omega$
J8	RK0107	Chip R, MCR10 0 $\Omega$
J10	RK1107	Chip R, MCR18 0 $\Omega$
J11	RK1107	Chip R, MCR18 0 $\Omega$
J12	RK1107	Chip R, MCR18 0 $\Omega$
J13	RK1107	Chip R, MCR18 0 $\Omega$
J14	RK0107	Chip R, MCR10 0 $\Omega$
J15	RK0107	Chip R, MCR10 0 $\Omega$
J16	RK0107	Chip R, MCR10 0 $\Omega$
J17	RK0107	Chip R, MCR10 0 $\Omega$ (DR-570E only)
J19	RK1107	Chip R, MCR18 0 $\Omega$
J20	RK1107	Chip R, MCR18 0 $\Omega$
J21	RK1107	Chip R, MCR18 0 $\Omega$
J22	RK1107	Chip R, MCR18 0 $\Omega$
J23	RK1107	Chip R, MCR18 0 $\Omega$
J24	RK1107	Chip R, MCR18 0 $\Omega$
J25	RK1107	Chip R, MCR18 0 $\Omega$ (DR-570E only)
J26	RK1107	Chip R, MCR18 0 $\Omega$
C1	CU8003	Chip C, C2012B1H 0.1 $\mu$ F
C2	CU0035	Chip C, C2012CH1H 100 pF
C3	CU8002	Chip C, C2012B1H 0.01 $\mu$ F
C4	CU8023	Chip C, C2012B1H 0.0039 $\mu$ FK
C5	CS0049	Chip Tantal, TMC1C105
C6	CS0052	Chip Tantal, TMC1A336
C7	CU8003	Chip C, C2012B1H 0.01 $\mu$ F
C8	CU8001	Chip C, C2012B1H 0.001 $\mu$ F
C9	CU8003	Chip C, C2012B1H 0.01 $\mu$ F
C10	CU8001	Chip C, C2012B1H 0.001 $\mu$ F
C11	CU8035	Chip C, C2012B1H 0.039 $\mu$ FK
C12	CS0052	Chip Tantal, TMC1A336
C13	CE0097	Chemical C, MSS 68 $\mu$ F/10 V
C14	CU8001	Chip C, C2012B1H 0.001 $\mu$ F
C15	CU8001	Chip C, C2012B1H 0.001 $\mu$ F
C16	CU8002	Chip C, C2012B1H 0.01 $\mu$ F
C17	RK1107	Chip R, MCR18 0 $\Omega$ (DR-570E only)
C17	CU8038	Chip C, CM316Y1E 1 $\mu$ FZ (DR-570T only)
C18	CU0035	Chip C, C2012CH1H 100 pF
C19	CU0035	Chip C, C2012CH1H 100 pF
C20	CU8034	Chip C, C2012B1E 0.033 $\mu$ FK
C21	CU8034	Chip C, C2012B1E 0.033 $\mu$ FK
C22	CU8038	Chip C, CM316Y1E 1 $\mu$ FZ
C23	CU8024	Chip C, C2012B1H 0.0047 $\mu$ FK
C24	CU0053	Chip C, C2012CH1H 560 pF
C25	CU8032	Chip C, C2012B1H 0.01 $\mu$ F
C26	CS0049	Chip Tantal, TMC1C105
C27	CU8038	Chip C, CM316Y1E 1 $\mu$ FZ
C28	CU0057	Chip C, C2012CH1H 820 pF
C29	CU8008	Chip C, C2012B1H 0.0027 $\mu$ FK
C30	CU0035	Chip C, C2012CH1H 100 pF
C31	CU0035	Chip C, C2012CH1H 100 pF
C32	CU8024	Chip C, C2012B1H 0.0047 $\mu$ FK
C33	CS0057	Chip Tantal, TMCQJ225
C34	CU8003	Chip C, C2012B1H 0.1 $\mu$ F
C35	CU0023	Chip C, C2012CH1H 33 pF
C36	CU8002	Chip C, C2012B1H 0.01 $\mu$ F
C37	CU8024	Chip C, C2012B1H 0.0047 $\mu$ FK
C38	CS0057	Chip Tantal, TMCQJ225
C39	CU8002	Chip C, C2012B1H 0.01 $\mu$ F
C40	CU8003	Chip C, C2012B1H 0.1 $\mu$ F
C41	CS0049	Chip Tantal, TMC1C105
C42	CS0065	Chip Tantal, TMC1D684
C43	CS0052	Chip Tantal, TMC1A336
C44	CU8034	Chip C, C2012B1E 0.033 $\mu$ FK
C45	CU8030	Chip C, C2012B1H 0.015 $\mu$ FK
C46	CU8034	Chip C, C2012B1E 0.033 $\mu$ FK



Ref. No.	Part Code	Part Name and Number
C47	<b>CU8035</b>	Chip C. C2012B1E 0.039 μFK
C48	<b>CU8038</b>	Chip C. CM316Y1E 1 μFZ
C49	<b>CE0097</b>	Chemical C. MS5 68 μF/10 V
C50	<b>CU8002</b>	Chip C. C2012B1H 0.01 μF
C51	<b>CU0053</b>	Chip C. C2012CH1H 560 pF
C52	<b>CU8024</b>	Chip C. C2012B1H 0.0047 μFK
C53	<b>CU8024</b>	Chip C. C2012B1H 0.0047 μFK
C54	<b>CU0023</b>	Chip C. C2012CH1H 33 pF
C55	<b>CU8002</b>	Chip C. C2012B1H 0.01 μF
C56	<b>CU8024</b>	Chip C. C2012B1H 0.0047 μFK
C57	<b>CS0051</b>	Chip Tantal. TMC1C106
C58	<b>CS0057</b>	Chip Tantal. TMC0J225
C59	<b>CU8002</b>	Chip C. C2012B1H 0.01 μF
C60	<b>CU8003</b>	Chip C. C2012B1H 0.1 μF
C61	<b>CS0049</b>	Chip Tantal. TMC1C105
C62	<b>CS0065</b>	Chip Tantal. TMC1D684
C63	<b>CS0052</b>	Chip Tantal. TMC1A336
C64	<b>CU8030</b>	Chip C. C2012B1H 0.015 μFK
C65	<b>CU8034</b>	Chip C. C2012B1E 0.033 μFK
C66	<b>CU8034</b>	Chip C. C2012B1E 0.033 μFK
C67	<b>CS0057</b>	Chip Tantal. TMC0J225
C68	<b>CS0057</b>	Chip Tantal. TMC0J225
C69	<b>CU0035</b>	Chip C. C2012CH1H 100 pF
C70	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C71	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
L1	<b>QC0049</b>	Chip Coil. NL322522T-221K
L2	<b>QC0050</b>	Chip Coil. LQH4N102K
L3	<b>QC0049</b>	Chip Coil. NL322522T-221K
L4	<b>QC0050</b>	Chip Coil. LQH4N102K

### Duplexer Unit

D1	<b>XD0058</b>	Diode. 1SS181
C1	<b>CC5022</b>	Ceramic C. HM60SJSJL270J
C2	<b>CC5022</b>	Ceramic C. HM60SJSJL270J
C4	<b>CU0051</b>	Chip C. C2012CH1H 470 pF
C6	<b>CC5015</b>	Ceramic C. HM60SJSJL060D
C7	<b>CC5014</b>	Ceramic C. HM60SJSJL040C
C8	<b>CC5015</b>	Ceramic C. HM60SJSJL060D
C9	<b>CC5002</b>	Ceramic C. 10 pF 500 V SL
L1	<b>QK0055</b>	Air Core Coil. 3 ∅ 6 T
L2	<b>QK0055</b>	Air Core Coil. 3 ∅ 6 T
L3	<b>QK0054</b>	Air Core Coil. 3 ∅ 1.5 T
L4	<b>QC0039</b>	Chip Coil. NL 322522T-1R0M
L5	<b>QK0054</b>	Air Core Coil. 3 ∅ 1.5 T
L6	<b>QK0054</b>	Air Core Coil. 3 ∅ 1.5 T
RL1	<b>UL0008</b>	Relay. AG201744

### Crystal Converter Unit

IC1	<b>XA0098</b>	IC. NJM78L05UA
Q1	<b>XT0072</b>	Transistor. 2SC3011
Q2	<b>XT0030</b>	Transistor. 2SC3356
Q3	<b>XT0039</b>	Transistor. 2SC2668Y
Q4	<b>XT0019</b>	Transistor. 2SC2407
Q5	<b>XT0035</b>	Transistor. 2SC3429
Q6	<b>XT0039</b>	Transistor. 2SC2668Y
Q7	<b>XU0022</b>	Digital Transistor. DTA114EK
Q8	<b>XU0022</b>	Digital Transistor. DTA114EK
D1	<b>XD0070</b>	Diode. 1SS265
D2	<b>XD0070</b>	Diode. 1SS265
D3	<b>XD0070</b>	Diode. 1SS265
D4	<b>XD0070</b>	Diode. 1SS265
D5	<b>XD0040</b>	Diode. DAN202K
D6	<b>XD0058</b>	Diode. 1SS181
X1	<b>XQ0024</b>	X'tal. UM-1 40.5 MHz
X2	<b>XQ0025</b>	X'tal. UM-1 40.0 MHz
CN⊗	<b>UE0055</b>	Post with Base. PI22B02M
CN⊙	<b>UE0055</b>	Post with Base. PI22B02M

Ref. No.	Part Code	Part Name and Number
	<b>TZ0021</b>	Insulating Paper
R1	<b>RK0064</b>	Chip R. MCR10 56 kΩ
R2	<b>RK0052</b>	Chip R. MCR10 10 kΩ
R3	<b>RK0040</b>	Chip R. MCR10 2.7 kΩ
R4	<b>RK0059</b>	Chip R. MCR10 33 kΩ
R5	<b>RK0052</b>	Chip R. MCR10 10 kΩ
R6	<b>RK0028</b>	Chip R. MCR10 470Ω
R7	<b>RK0022</b>	Chip R. MCR10 220Ω
R8	<b>RK0031</b>	Chip R. MCR10 680Ω
R9	<b>RK0039</b>	Chip R. MCR10 2.2 kΩ
R10	<b>RK0054</b>	Chip R. MCR10 15 kΩ
R11	<b>RK0054</b>	Chip R. MCR10 15 kΩ
R12	<b>RK0033</b>	Chip R. MCR10 820Ω
R13	<b>RK0031</b>	Chip R. MCR10 680Ω
R14	<b>RK0045</b>	Chip R. MCR10 4.7 kΩ
R15	<b>RK0054</b>	Chip R. MCR10 15 kΩ
R16	<b>RK0025</b>	Chip R. MCR10 330Ω
R17	<b>RK0069</b>	Chip R. MCR10 100 kΩ
R18	<b>RK0025</b>	Chip R. MCR10 330Ω
R19	<b>RK0052</b>	Chip R. MCR10 10 kΩ
R20	<b>RK0039</b>	Chip R. MCR10 2.2 kΩ
R21	<b>RK0054</b>	Chip R. MCR10 15 kΩ
R22	<b>RK0033</b>	Chip R. MCR10 820Ω
R23	<b>RK0018</b>	Chip R. MCR10 100Ω
R24	<b>RK0054</b>	Chip R. MCR10 15 kΩ
R25	<b>RK0039</b>	Chip R. MCR10 2.2 kΩ

C1	<b>CU0006</b>	Chip C. C2012CH1H 5 pF
C2	<b>CU0003</b>	Chip C. C2012CH1H 2 pF
C3	<b>CU0003</b>	Chip C. C2012CH1H 2 pF
C4	<b>CU0006</b>	Chip C. C2012CH1H 5 pF
C5	<b>CU0001</b>	Chip C. C2012CH1H 0.5 pF
C6	<b>CU0051</b>	Chip C. C2012CH1H 470 pF
C7	<b>CU0051</b>	Chip C. C2012CH1H 470 pF
C8	<b>CU0006</b>	Chip C. C2012CH1H 5 pF
C9	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C10	<b>CU0019</b>	Chip C. C2012CH1H 22 pF
C11	<b>CU0006</b>	Chip C. C2012CH1H 5 pF
C12	<b>CU0002</b>	Chip C. C2012CH1H 1 pF
C13	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C14	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C15	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C16	<b>CU0015</b>	Chip C. C2012CH1H 15 pF
C17	<b>CU0015</b>	Chip C. C2012CH1H 15 pF
C18	<b>CU0027</b>	Chip C. C2012CH1H 47 pF
C19	<b>CU0005</b>	Chip C. C2012CH1H 4 pF
C20	<b>CU0003</b>	Chip C. C2012CH1H 2 pF
C21	<b>CU0004</b>	Chip C. C2012CH1H 3 pF
C22	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C23	<b>CU0013</b>	Chip C. C2012CH1H 12 pF
C24	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C25	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C26	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C27	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C28	<b>CU0027</b>	Chip C. C2012CH1H 47 pF
C29	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C30	<b>CU0005</b>	Chip C. C2012CH1H 4 pF
C31	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C32	<b>CU0011</b>	Chip C. C2012CH1H 10 pF
C33	<b>CU0006</b>	Chip C. C2012CH1H 5 pF
C34	<b>CU0008</b>	Chip C. C2012CH1H 7 pF
C35	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C36	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C37	<b>CU0015</b>	Chip C. C2012CH1H 15 pF
C38	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C39	<b>CU0015</b>	Chip C. C2012CH1H 15 pF
C40	<b>CU0027</b>	Chip C. C2012CH1H 47 pF
C41	<b>CU0015</b>	Chip C. C2012CH1H 15 pF
C42	<b>CU0027</b>	Chip C. C2012CH1H 47 pF
C43	<b>CU0005</b>	Chip C. C2012CH1H 4 pF
C44	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C45	<b>CU0002</b>	Chip C. C2012CH1H 1 pF
C46	<b>CU0001</b>	Chip C. C2012CH1H 0.5 pF
C47	<b>CU0003</b>	Chip C. C2012CH1H 2 pF
C48	<b>CU0005</b>	Chip C. C2012CH1H 4 pF
C49	<b>CU0006</b>	Chip C. C2012CH1H 5 pF

Ref. No.	Part Code	Part Name and Number
C50	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C51	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C52	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C53	<b>CU0027</b>	Chip C. C2012CH1H 47 pF
C54	<b>CU0051</b>	Chip C. C2012CH1H 470 pF
C55	<b>CE0198</b>	Chemical C. MS5 100 μF/10 V
C56	<b>CE0198</b>	Chemical C. MS5 100 μF/10 V
C57	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
L1	<b>QK0036</b>	Air Core Coil. 3 ∅ 1.5 T
L2	<b>QK0036</b>	Air Core Coil. 3 ∅ 1.5 T
L3	<b>QK0037</b>	Air Core Coil. 3 ∅ 2.5 T
L4	<b>QK0037</b>	Air Core Coil. 3 ∅ 2.5 T
L5	<b>QA0030</b>	HF Coil
L6	<b>QA0031</b>	HF Coil
L7	<b>QA0032</b>	HF Coil
L8-A	<b>RD0108</b>	JBW01R-01
L8-B	<b>RD0108</b>	JBW01R-01
L9	<b>QA0030</b>	HF Coil
L10	<b>QA0033</b>	HF Coil
L11	<b>QA0034</b>	HF Coil
L12	<b>QA0036</b>	HF Coil
L13	<b>QA0035</b>	HF Coil
L14	<b>QC0071</b>	Chip Coil. NL322522T-R22K
L15	<b>QC0045</b>	Chip Coil. NL322522T-3R3M
TC1	<b>CT0013</b>	Trimmer C. ECR-GA003A30
TC2	<b>CT0013</b>	Trimmer C. ECR-GA003A30
TC3	<b>CT0013</b>	Trimmer C. ECR-GA003A30
TC4	<b>CT0013</b>	Trimmer C. ECR-GA003A30
TC5	<b>CT0001</b>	Trimmer C. ECR-GA010D30
TC6	<b>CT0001</b>	Trimmer C. ECR-GA010D30

### Power Source Unit

C75	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C76	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C77	<b>CU8001</b>	Chip C. C2012B1H 0.001 μF
C78	<b>CE0193</b>	Chemical C. TWSS 1000 μF/16 V
L21	<b>QL0007</b>	Coil. AF Choke
D12	<b>XD0107</b>	Diode. G3B
CNⓈ	<b>UE0069</b>	Post with Base. PI22A03M

### VHF Final Unit

IC1	<b>XA0043</b>	Module. M57726
Q2	<b>XT0020</b>	Transistor. 2SC2538
Q3	<b>XT0041</b>	Transistor. FMW1
Q6	<b>XU0012</b>	Digital Transistor. DTC 114EK
D1	<b>XD0057</b>	Diode. 1SS184
D2	<b>XD0106</b>	Diode. UM9401
D3	<b>XD0014</b>	Diode. M308
D4	<b>XD0102</b>	Diode. 1SS101
D5	<b>XD0057</b>	Diode. 1SS184
R1	<b>RK0023</b>	Chip R. MCR10 270Ω
R2	<b>RK0004</b>	Chip R. MCR10 18Ω
R3	<b>RK0023</b>	Chip R. MCR10 270Ω
R4	<b>RK0011</b>	Chip R. MCR10 47Ω
R5	<b>RK0037</b>	Chip R. MCR10 1.5 kΩ
R6	<b>RD1011</b>	R. 1/2 W 22Ω
R10	<b>RK0107</b>	Chip R. MCR10 0Ω
R11	<b>RD1008</b>	R. 1/2 W 150Ω
R13	<b>RK0056</b>	Chip R. MCR10 22 kΩ
R14	<b>RK0056</b>	Chip R. MCR10 22 kΩ
R15	<b>RK0107</b>	Chip R. MCR10 0Ω
R16	<b>RK0056</b>	Chip R. MCR10 22 kΩ
R17	<b>RK0059</b>	Chip R. MCR10 33 kΩ
R19	<b>RK0008</b>	Chip R. MCR10 33Ω
R20	<b>RK0107</b>	Chip R. MCR10 0Ω
R26	<b>RK0076</b>	Chip R. MCR10 330 kΩ



Ref. No.	Part Code	Part Name and Number
C1	CU8001	Chip C, C2012B1H 0.001 µF
C2	CU0030	Chip C, C2012CH1H 62 pF
C3	CU0034	Chip C, C2012CH1H 91 pF
C4	CU8001	Chip C, C2012B1H 0.001 µF
C5	CU8001	Chip C, C2012B1H 0.001 µF
C6	CU0018	Chip C, C2012CH1H 20 pF
C7	CE0044	Chemical C, MS5 10 µF/16 V
C8	CU8001	Chip C, C2012B1H 0.001 µF
C9	CU8001	Chip C, C2012B1H 0.001 µF
C10	CU8001	Chip C, C2012B1H 0.001 µF
C11	CU8001	Chip C, C2012B1H 0.001 µF
C12	CU8001	Chip C, C2012B1H 0.001 µF
C13	CE0044	Chemical C, MS5 10 µF/16 V
C14	CE0044	Chemical C, MS5 10 µF/16 V
C16	CC5002	Ceramic C, 10 pF 500 V SL
C17	CU8001	Chip C, C2012B1H 0.001 µF
C18	CU8001	Chip C, C2012B1H 0.001 µF
C19	CC5016	Ceramic C, HM60SJSLS080J
C20	CC5025	Ceramic C, HM60SJSLS102K
C21	CC5019	Ceramic C, HM60SJSLS150J
C22	CU0017	Chip C, C2012CH1H 18 pF
C23	CC5021	Ceramic C, HM60SJSLS220J
C24	CC5021	Ceramic C, HM60SJSLS220J
C25	CU0001	Chip C, C2012CH1H 0.5 pF
C26	CC5022	Ceramic C, HM60SJSLS270J
C27	CU0002	Chip C, C2012CH1H 1 pF
C28	CU8001	Chip C, C2012B1H 0.001 µF
C29	CC5020	Ceramic C, HM60SJSLS180J
C30	CU8001	Chip C, C2012B1H 0.001 µF
C31	CU8001	Chip C, C2012B1H 0.001 µF
C33	CU8001	Chip C, C2012B1H 0.001 µF
C34	CU8001	Chip C, C2012B1H 0.001 µF
C35	CU8024	Chip C, C2012B1H 0.0047 µF
C36	CU8001	Chip C, C2012B1H 0.001 µF
C37	CU8024	Chip C, C2012B1H 0.0047 µF
C38	CU8001	Chip C, C2012B1H 0.001 µF
C39	CU8001	Chip C, C2012B1H 0.001 µF
C40	CU8001	Chip C, C2012B1H 0.001 µF
C41	CU8001	Chip C, C2012B1H 0.001 µF
C42	CU8001	Chip C, C2012B1H 0.001 µF
L1	QC0059	Chip L, NL322522T-022M
L2	QC0055	Chip L, NL322522T-010M
L3	QK0031	Air Core Coil, 3 Ø-6 T
L4	QK0062	Air Core Coil, 0.6-3 Ø-3 T-LS
L5	QK0064	Air Core Coil, 0.8-4 Ø-1.5 T-L (DR-570E only)
L5	QK0054	Air Core Coil, 0.8-3 Ø-1.5-R (DR-570 T only)
L6	QK0044	Air Core Coil, 3 Ø-9.5 T
L7	QK0067	Air Core Coil, 0.6-3 Ø-7 T-R
L8	QK0058	Air Core Coil, 0.8-3 Ø-6 T-RS
L9	QK0044	Air Core Coil, 3 Ø-9.5 T (DR-570 E only)
L9	QK0067	Air Core Coil, 0.6-3 Ø-7 T-R (DR-570T only)
L10	QK0060	Air Core Coil, 0.8-3 Ø-5 T-RS
L11	QK0077	Air Core Coil, 0.8-3 Ø-3 T-RS (DR-570 E only)
L11	QK0054	Air Core Coil, 0.8-3 Ø-1.5-R (DR-570 T only)
L12	QC0013	Choke Coil, LAL02-1ROM
VR1	RH0038	VR, CVR-42A-473AW1D
VR2	RH0051	VR, CVR-42A-472AW1D
VR3	RH0038	VR, CVR-42A-473AW1D
VR4	RH0056	VR, CVR-42A-333AW1D
JK1	UJ0013	Earphone Jack, JSJ140301010
TH1	XS0006	Thermistor, TD5-C350DA
<b>UHF Final Unit</b>		
IC4	XA0077	Module, M57788M
Q5	XT0064	Transistor, 2SD1761E

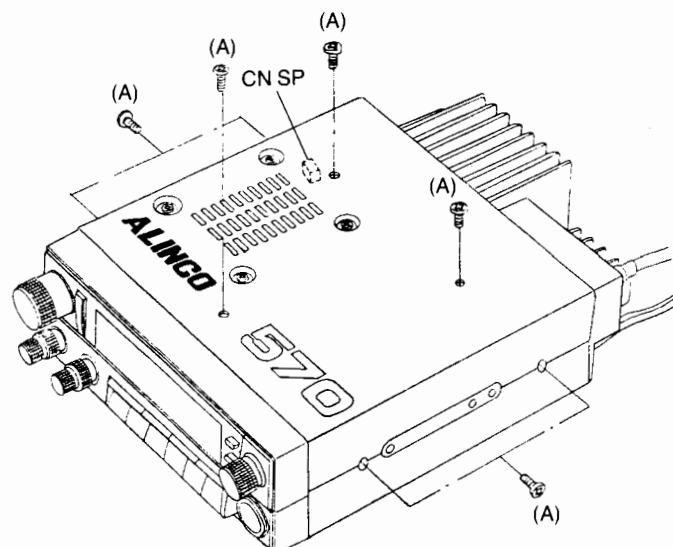
Ref. No.	Part Code	Part Name and Number
D7	XD0106	Diode, UM9401
D8	XD0014	Diode, M1308
D9	XD0102	Diode, 1SS101
D10	XD0102	Diode, 1SS101
R23	RK0107	Chip R, MCR10 0Ω
R24	RK0107	Chip R, MCR10 0Ω
R25	RD1008	R, ½ W 150Ω
R26	RK0052	Chip R, MCR10 10 kΩ
R27	RK0006	Chip R, MCR10 27Ω
L13	QK0054	Air Core Coil, 3 Ø 1.5 T
L14	QK0061	Air Core Coil, 0.5-3 Ø-9.5 T-L
L15	QK0068	Air Core Coil, 0.8-3 Ø-2.5 T-RS
L16	QK0063	Air Core Coil, 0.5-3 Ø-3.5 T-R
L17	QK0054	Air Core Coil, 3 Ø 1.5 T
L18	QK0065	Air Core Coil, 0.8-4 Ø-1.25 T-R
L19	QC0013	Choke Coil, LAL021ROM
C43	CU8001	Chip C, C2012B1H 0.001 µF
C44	CU0051	Chip C, C2012CH1H 470 pF
C45	CE0044	Chemical C, MS5 10 µF/16 V
C46	CU0051	Chip C, C2012CH1H 470 pF
C47	CU0051	Chip C, C2012CH1H 470 pF
C48	CE0044	Chemical C, MS5 10 µF/16 V
C49	CU7013	Chip Mica, UC232H0050C
C50	CC5013	Ceramic C, HM60SJSLS020C
C51	CU0005	Chip C, C2012CH1H 4 pF
C52	CU0001	Chip C, C2012CH1H 0.5 pF
C53	CC5007	Ceramic C, HM60SJSLS050C
C54	CU0001	Chip C, C2012CH1H 0.5 pF
C55	CU7021	Chip Mica, UC232H0160J
C56	CU0013	Chip C, C2012CH1H 12 pF
C57	CU7019	Chip Mica, UC232H0220F
C58	CC5007	Ceramic C, HM60SJSLS050C
C59	CU7021	Chip Mica, UC232H0160J
C60	CC5007	Ceramic C, HM60SJSLS050C
C62	CC5014	Ceramic C, HM60SJSLS040C
C63	CU0051	Chip C, C2012CH1H 470 pF
C64	CU0051	Chip C, C2012CH1H 470 pF
C68	CU0051	Chip C, C2012CH1H 470 pF
C69	CU8001	Chip C, C2012B1H 0.001 µF
C70	CU8001	Chip C, C2012B1H 0.001 µF
C71	CU0051	Chip C, C2012CH1H 470 pF
C72	CU0051	Chip C, C2012CH1H 470 pF
C73	CU0051	Chip C, C2012CH1H 470 pF
C74	CU0051	Chip C, C2012CH1H 470 pF
	UE0080	Penetrating Paper

Ref. No.	Part Code	Part Name and Number
<b>CTCSS (EJ-5U) Unit (T Only)</b>		
CN1	UE0097	Pin Header SB3P-HVQ-CA
CN2	UE0077	Pin Header SB7P-HVQ-CA
CN3	UE0045	Post with Base PI22A11M
IC1	XA0020	IC MN6520
IC2	XA0020	IC MN6520
IC3	XA0019	IC UPD4094BG-T1
IC4	XA0019	IC UPD4094BG-T1
X1	XB0002	FAR-C4CA-04194000K01
Q1	XT0031	Transistor, 2SC2712Y
Q2	XT0031	Transistor, 2SC2712Y
Q3	XU0012	Digital Transistor DTC114EK
VR1	RH0058	CVR-42A203AW1D
R1	RK0086	Chip R, MCR10 1 MΩ
R2	RK0039	Chip R, MCR10 2.2 kΩ
R3	RK0044	Chip R, MCR10 3.9 kΩ
R4	RK0044	Chip R, MCR10 3.9 kΩ
R5	RK0039	Chip R, MCR10 2.2 kΩ
R6	RK0086	Chip R, MCR10 1 MΩ
R8	RK0045	Chip R, MCR10 4.7 kΩ
R10	RK0071	Chip R, MCR10 150 kΩ
R11	RK0039	Chip R, MCR10 2.2 kΩ
R12	RK0053	Chip R, MCR10 12 kΩ
R13	RK0055	Chip R, MCR10 18 kΩ
R14	RK0052	Chip R, MCR10 10 kΩ
R15	RK0052	Chip R, MCR10 10 kΩ
R18	RK0071	Chip R, MCR10 150 kΩ
R19	RK0039	Chip R, MCR10 2.2 kΩ
R20	RK0053	Chip R, MCR10 12 kΩ
R21	RK0055	Chip R, MCR10 18 kΩ
R22	RK0052	Chip R, MCR10 10 kΩ
R23	RK0052	Chip R, MCR10 10 kΩ
R24	RK0067	Chip R, MCR10 82 kΩ
R25	RK0067	Chip R, MCR10 82 kΩ
C1	CU8003	Chip C, C2012JF1E104Z
C2	CU8007	Chip C, C2012JF1H473Z
C3	CU8003	Chip C, C2012JF1E104Z
C4	CU8007	Chip C, C2012JF1H473Z
C5	CE0116	Chemical C, MS7 6.3 V/47 µF
C6	CU0005	Chip C, C2012CH1H 4 pF
C7	CU8003	Chip C, C2012JF1E104Z
C8	CS0059	Chip Tantal, TMCQJ226TR
C9	CU8003	Chip C, C2012JF1E104Z
C10	CS0059	Chip Tantal, TMCQJ226TR
C11	CS0055	Chip Tantal, TMCQJ106TR
C12	CS0055	Chip Tantal, TMCQJ106TR
C13	CU8002	Chip C, C2012B1H103K

## ■ DISASSEMBLING PROCEDURE

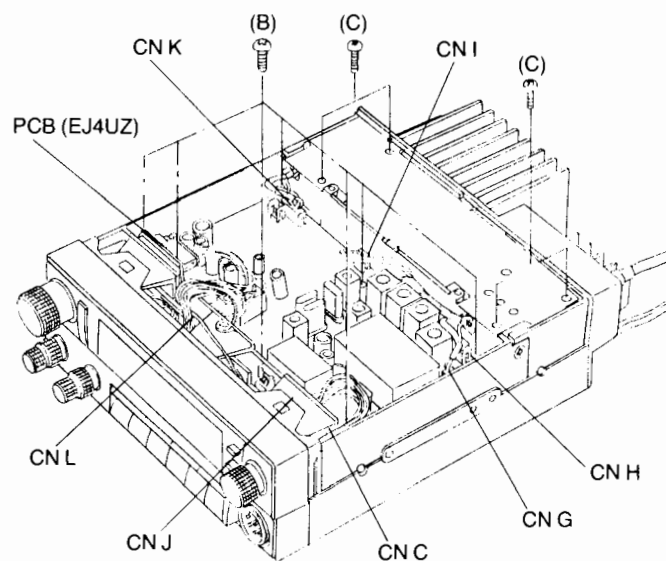
### Removing Upper Case

- (1) Remove 7 screws (A).
- (2) Unplug connector (CN SP).



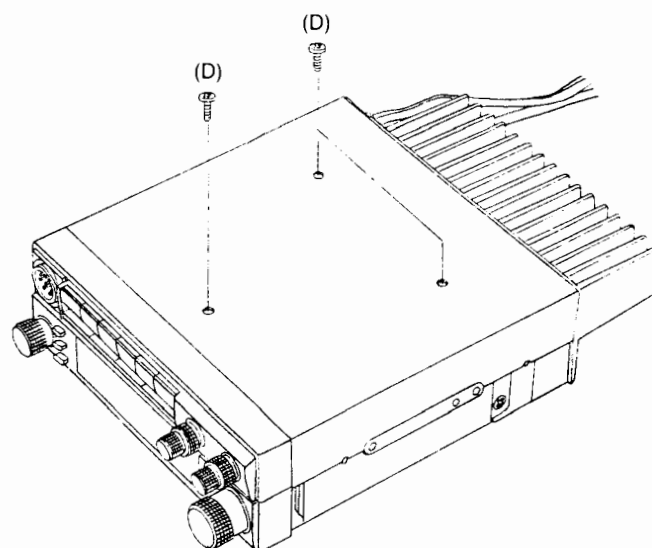
### Removing VHF (144 M) Main PCB

- (1) Remove 7 screws (B).
- (2) Unplug 7 connectors (CN C, CN G, CN H, CN I, CN J, CN K, CN L), and remove PCB (EJ4UZ).
- (3) Remove 4 screws (C) on shield plate.



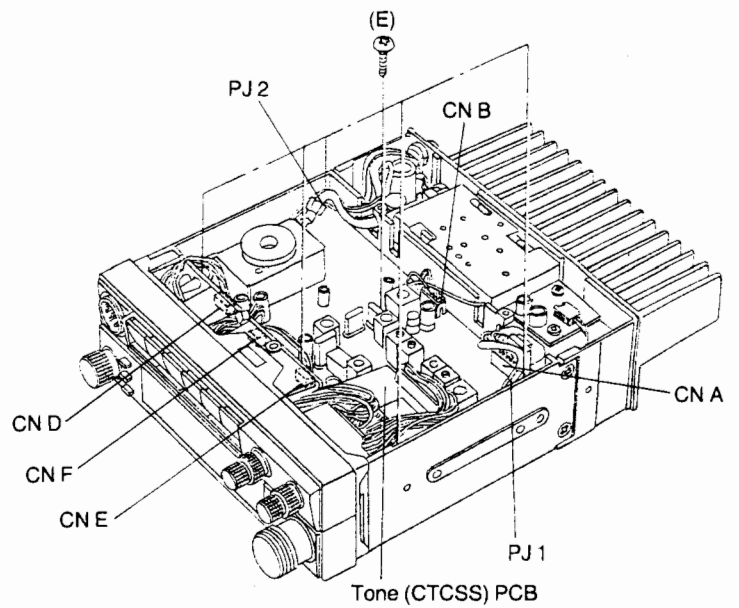
### Removing Lower Case

- (1) Turn over Unit, and remove 3 screws (D) beneath Lower Case.



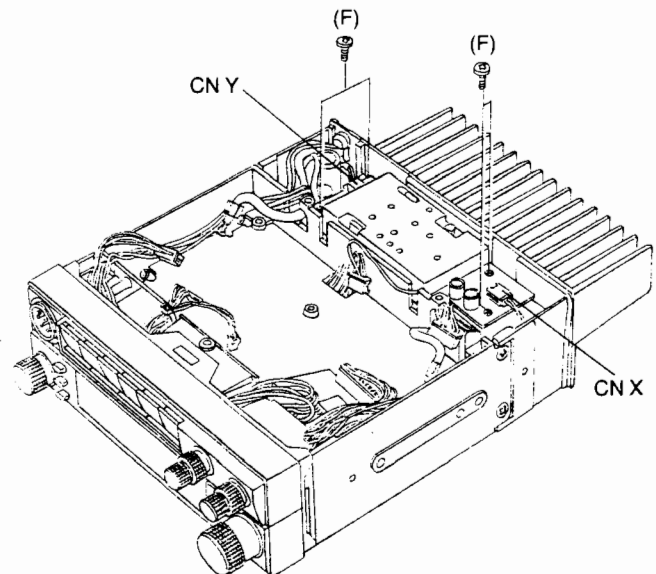
### Removing UHF (430 M) Main PCB

- (1) Remove 6 screws (E).
- (2) Unplug 5 connectors (CN A, CN B, CN D, CN E, CN F) and 2 pins (PJ1, PJ2), and remove Tone (CTCSS) PCB.



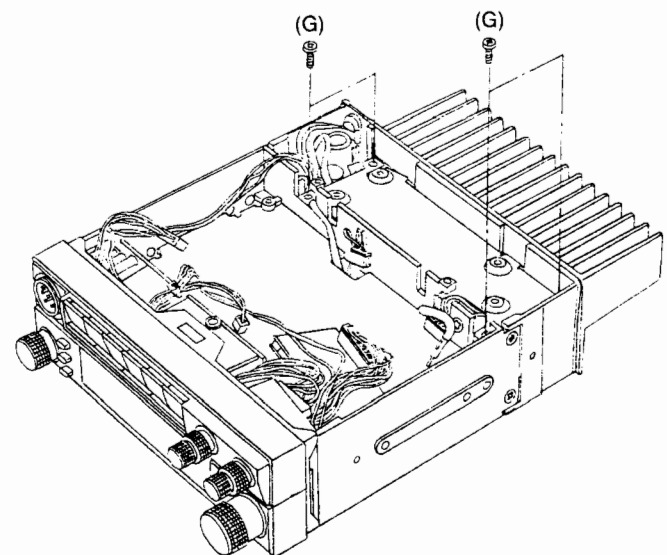
### Removing Crystal Converter PCB

- (1) Remove 4 screws (F).
- (2) Unplug 2 connectors (CN X, CN Y).



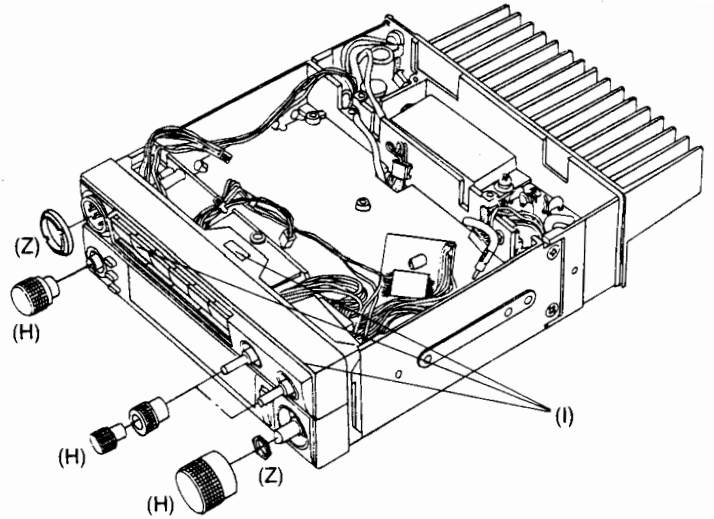
### Removing Shield Plate beneath Crystal Converter PCB

- (1) Remove 4 screws (G).



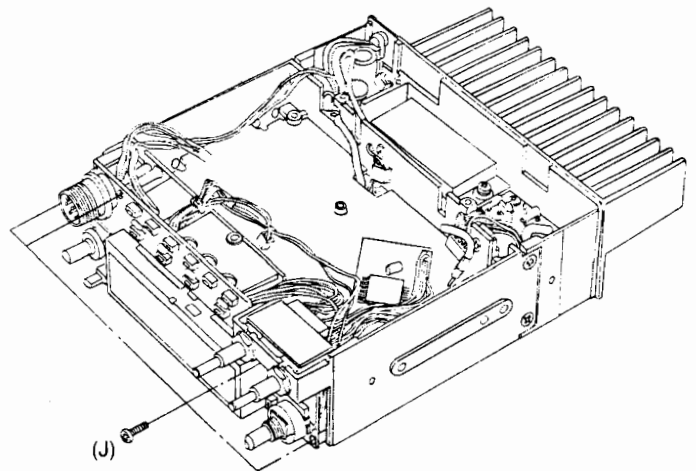
### Removing Front Panel

- (1) Remove 4 knobs (H).
- (2) Release 3 hooks (I).
- (3) Remove 2 nuts (Z).



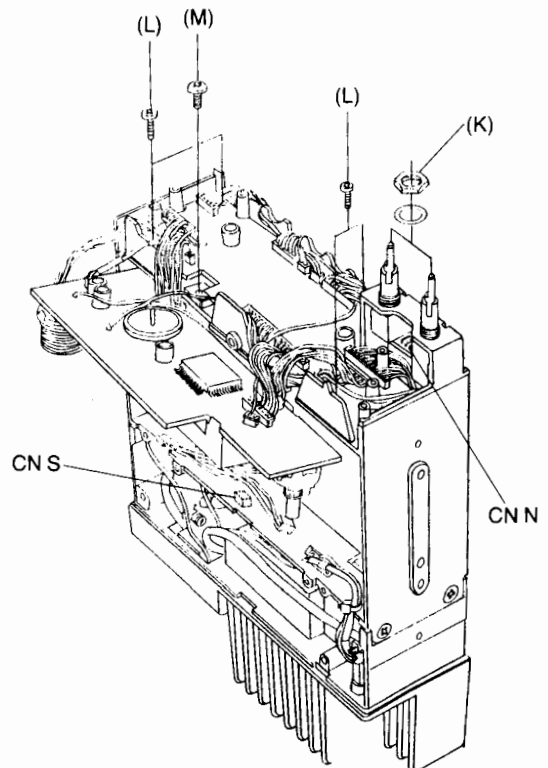
### Removing CPU PCB

- (1) Remove 4 screws (J).



### Removing VOL PCB

- (1) Place Unit upright, and remove 2 nuts (K).
- (2) Disconnect connector (CN N).

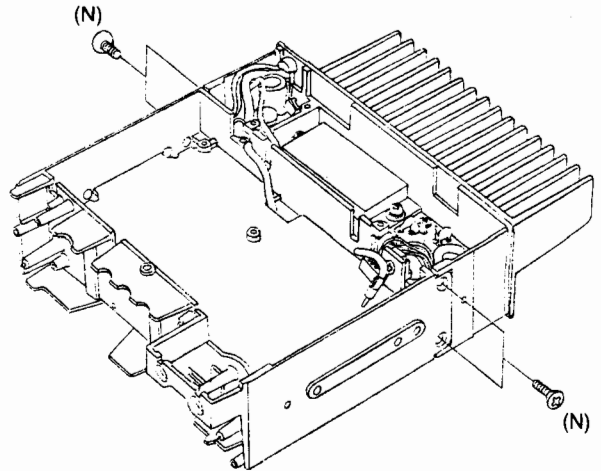


### Removing Control PCB

- (1) Remove 4 screws (L) and one screw (M).
- (2) Unplug connector (CN S) on Power Supply PCB at the bottom.

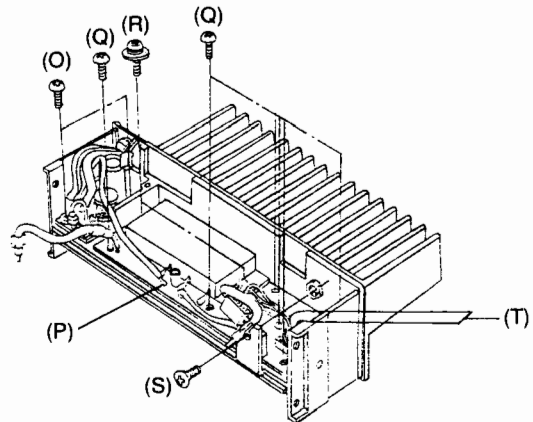
### Removing Rear Assembly

- (1) Remove 4 screws (N).



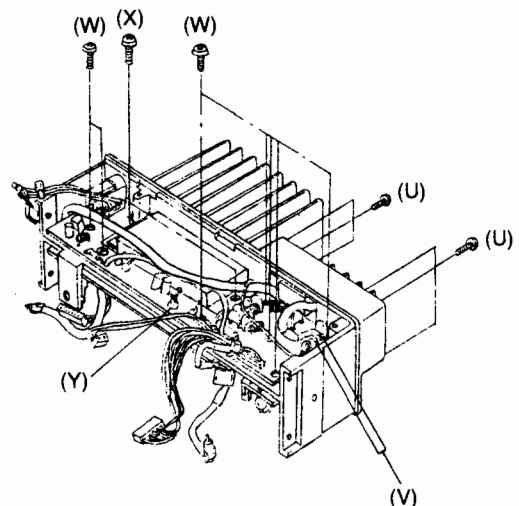
### Removing Power Supply PCB

- (1) Turn over assembly, and remove 2 screws (O).
- (2) Disconnect soldered portion (P).
- (3) Remove 6 screws (Q), 2 screws (R), 1 screw (S), and Disconnect 2 soldered portions (T).



### Removing Duplexer PCB

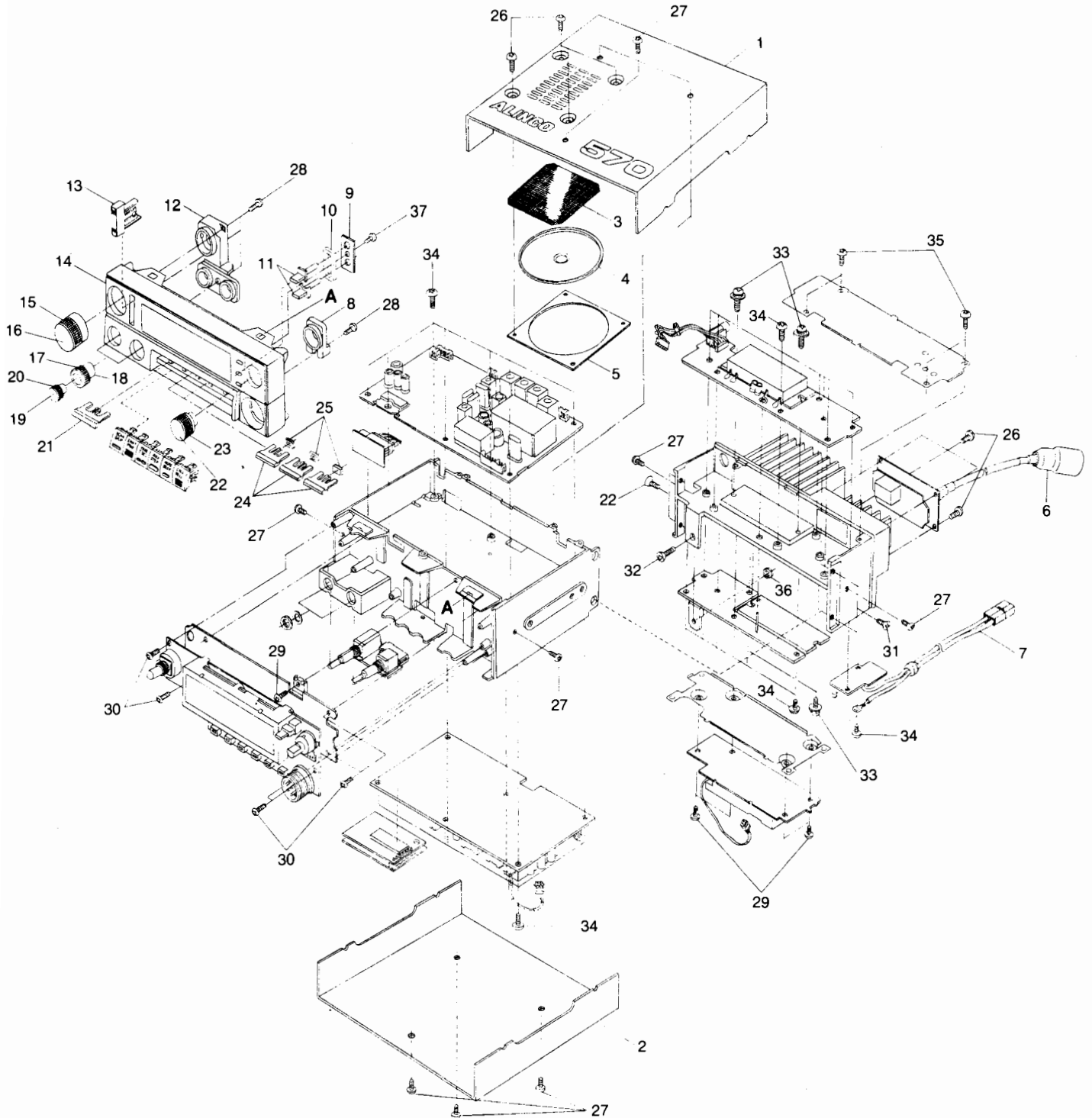
- (1) Turn over Unit, and remove 6 screws (U).
- (2) Disconnect 2 soldered portions (V).



### Removing VHF Final and UHF Final PCBs

- (1) Remove 7 screws (W), 2 screws (X), and Disconnect soldered portion (Y).

# ■ CABINET PARTS LOCATION



Ref. No.	Part Code	Part Name and Number
<b>Mechanical Parts</b>		
1	KU0061	Upper Case
2	KS0033	Lower Case
3	FF0013	SP Sheet
4	ES0001	Speaker 57S38-1
5	ST0009	SP Metal Crasp
6	UE0082	Coaxial Cable
7	UA0002	DC Power Cable
8	DG0009	Encoder light (S) 32G0009
9	FM0030	TS Plate 37M0030
10	FG0043	Tact Knob Sponge 37G0043
11	NB0023	Tact Switch Knob 33B0023
12	DG0008	Encoder light (L) 32G0008

Ref. No.	Part Code	Part Name and Number
13	NB0024	UD Knob 33B0024
14	KM0059A	Front Panel
15	ND0009	Dial Rubber (L)
16	NK0011	Dial Knob (L)
17	ND0012	Squelch Rubber
18	NW0003	Squelch Knob
19	NK0013	Volume Knob
20	ND0011	Volume Rubber
21	NB0025	Light Knob (L) 33B0025
22	NK0012	Dial Knob (S)
23	ND0010	Dial Rubber (S)
24	NB0026	Light Knob (S) 33B0026
25	FG0042	Light Knob Sponge 37G0042

Ref. No.	Part Code	Part Name and Number
<b>Screws</b>		
26	AA0003	M2.6 × 5
27	AA0008	M2.6 × 6
28	AP0006	M2 × 6
29	AA0030	M2.6 × 5
30	AA0027	M2 × 4
31	AA0022	M3 × 6
32	AA0029	M3 × 10
33	AD0001	M3 × 8
34	AJ0015	2.6 × 6 (tap)
35	AF0011	M2.6 × 4
36	AN0010	Nut M3-1
37	AF0012	M2 × 4

## ■ ADJUSTMENT (VHF)

Item	Adjustment point(s)	Adjustment method
VCO Voltage	<input type="checkbox"/> TC1 <input type="checkbox"/> TC2 (VCO BOX)	At 445.000 MHz (T) or 435.000 MHz (E), adjust TC1 so that the voltage of TP3 on <input type="checkbox"/> substrate is 1.8 V.
		At 445.000 MHz (T) or 435.000 MHz (E), pressing the PTT button, adjust TC2 so that the voltage of TP3 on <input type="checkbox"/> substrate is 3.8 V.
	<input type="checkbox"/> L4 (VCO BOX)	At 145.000 MHz, adjust TP2 so that the voltage of TP2 on <input type="checkbox"/> substrate is 4.0 V.
Basic Frequency	<input type="checkbox"/> TC1	Pressing PTT button, adjust TC1 so that f-counter indicates $444.950 \pm 0.1$ kHz (T) or $434.950 \pm 0.1$ kHz (E) MHz.
TX Power	<input type="checkbox"/> VR2 <input type="checkbox"/> VR3	On "LO" position, pressing the PTT button, adjust VR2 and VR3 so that the power is maximum at 145.95 MHz (T) or 144.95 MHz (E).
Power Output	<input type="checkbox"/> VR2 (Hi)	On "Hi" position, turn VR2 for 46 W output at 145.95 MHz (T) or 144.95 MHz (E). Verify the lighting of the entire RF meter.
	<input type="checkbox"/> VR4 (Lo)	On "Lo" position, turn VR4 for 5 W output at 145.95 MHz (T) or 144.95 MHz (E).
RF meter	<input type="checkbox"/> VR1	On "Lo" position, adjust VR1, so that <input type="checkbox"/> on the RF meter lights up at 145.95 MHz (T) or 144.95 (E).
Deviation	<input type="checkbox"/> VR3	Enter the AF level of OdBm, then pressing the PTT button, adjust VR3 so that you obtain 4.6 kHz/Dev at 145.95 MHz (T) or 1449.95 MHz (E) and AF 1 KHz.
Protection Circuit	<input type="checkbox"/> VR3	Disconnect the antenna, then pressing the PTT button and adjust VR3 so that the current consumption is 4.5 A at 145.95 MHz (T) or 144.95 MHz (E).
Subaudible Tone Deviation (DR-570T)		Pressing the tone button and the PTT button at 145.95 MHz, verify 0.5~1 kHz/Dev at tone frequency of 88.5 Hz.
1750 Hz Tone Deviation (DR-570E)		Connect Microphone (EHM-34A or 33A), then pressing the tone button, verify that the tone frequency is 1750 Hz and the deviation is 3.5 kHz $\pm 0.5$ kHz.
Discrimination	<input type="checkbox"/> L7, 8, 9	At 146.03 MHz (T) or 145.03 (E) and 60 dB $\mu$ input, adjust L7, 8, 9, so that the distortion is minimum at 50 m W.
Sensitivity	<input type="checkbox"/> L2, 3, 4, 5, 6	Adjust L2, 3, 4, 5, 6 so that 12 dB SINAD sensitivity is the highest at 146.03 MHz (T) or 145.03 MHz (E).
Squelch Sensitivity	<input type="checkbox"/> VR1	At 146.03 MHz (T) or 145.03 MHz (E), turn the main squelch knob to the minimum and cut SG output, then adjust VR1 so that the noise is maximum.

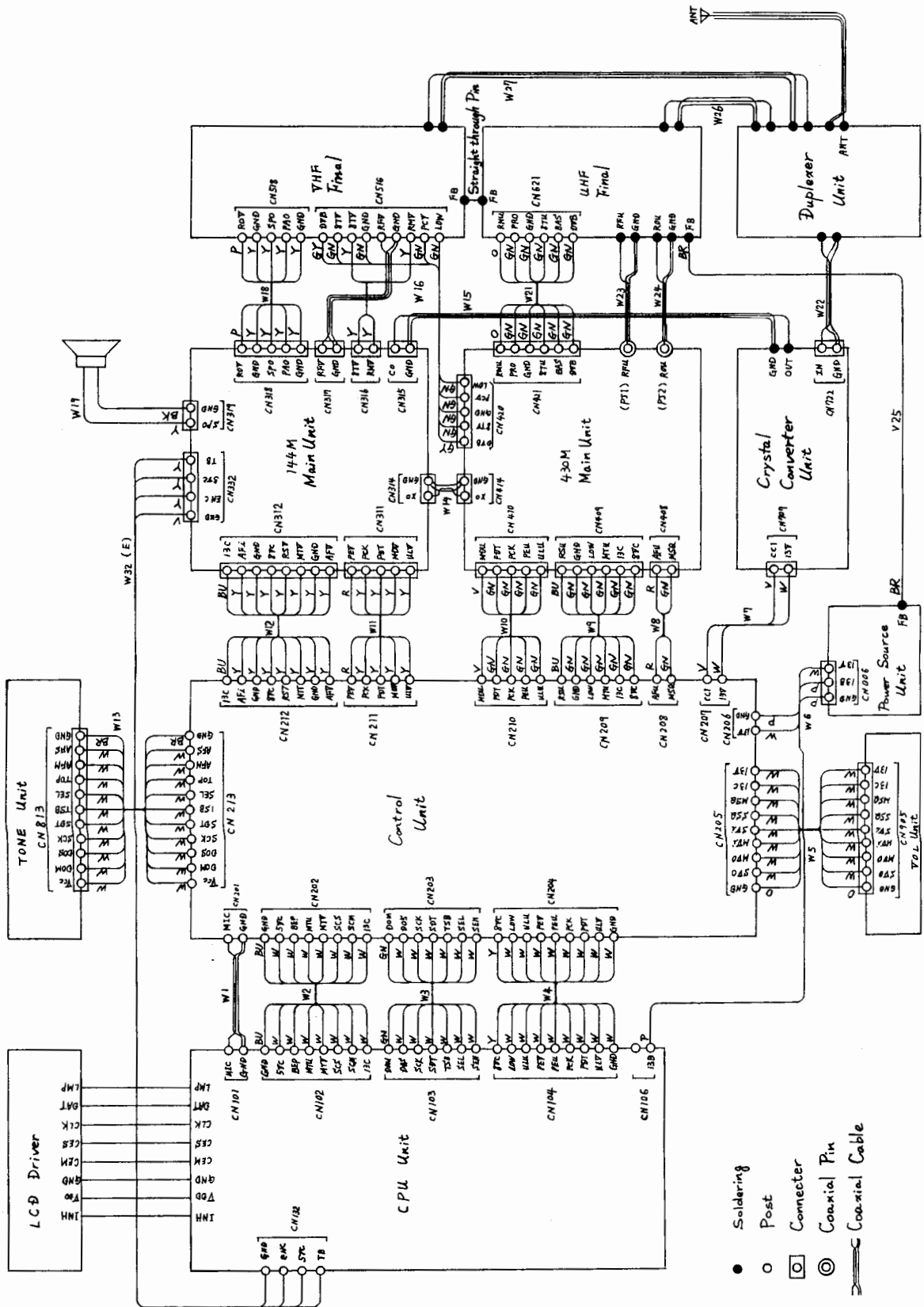


## ■ ADJUSTMENT (UHF)

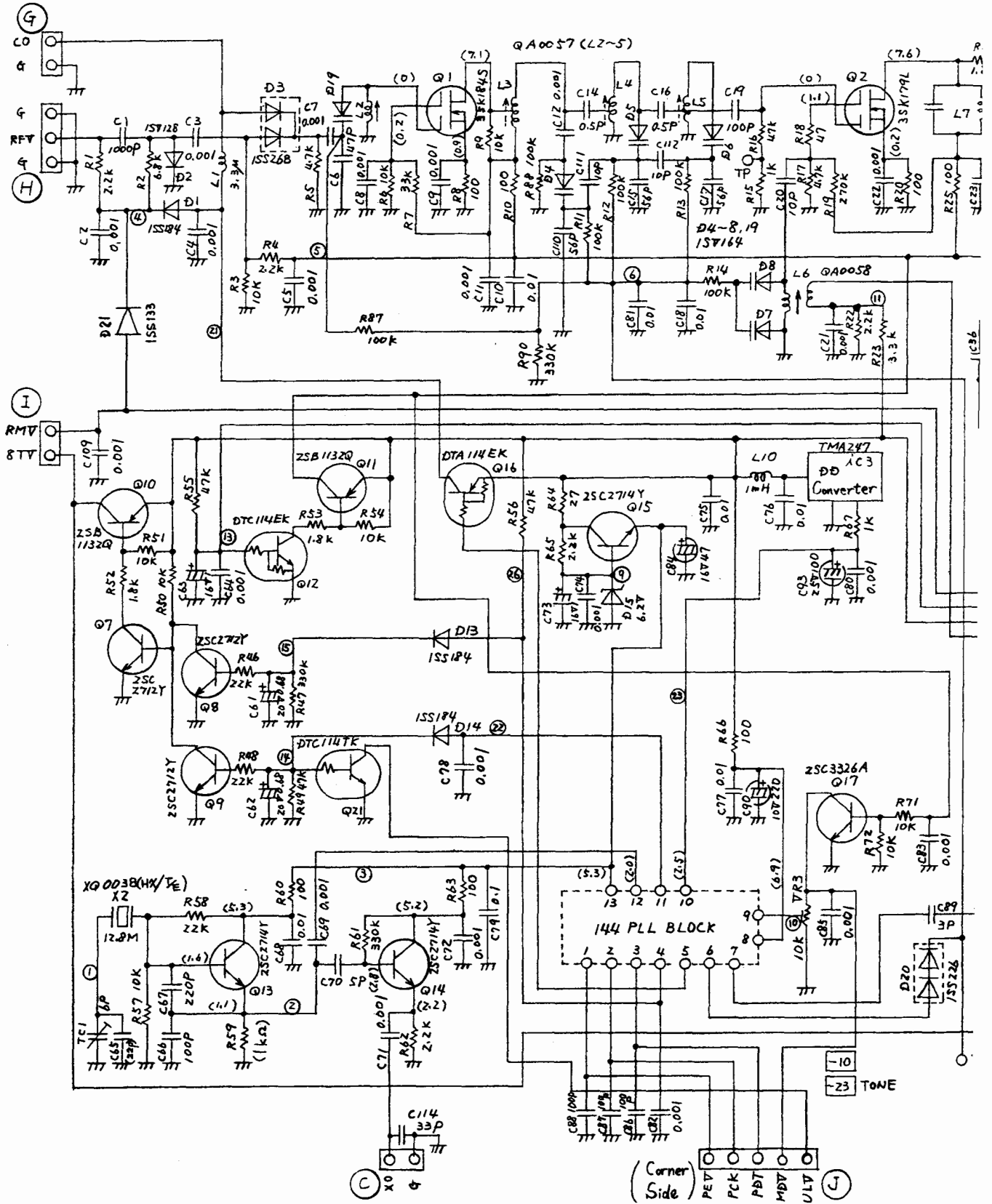
Item	Adjustment point(s)	Adjustment method
VCO Voltage	<input type="checkbox"/> TC1 <input type="checkbox"/> TC2 (VCO BOX)	At 445.000 MHz (T) or 435.000 MHz (E), adjust TC1 so that the voltage of TP3 on <input type="checkbox"/> substrate is 1.8 V.
		At 445.000 MHz (T) or 435.000 MHz (E), pressing the PTT button, adjust TC2 so that the voltage of TP3 on <input type="checkbox"/> substrate is 3.8 V.
	<input type="checkbox"/> L4 (VCO BOX)	At 145.000 MHz, adjust TP2 so that the voltage of TP2 on <input type="checkbox"/> substrate is 4.0 V.
TX Power	<input type="checkbox"/> VR5	On "Lo" position, pressing the PTT button, adjust VR5 so that the power is maximum at 444.95 MHz (T) or 434.95 MHz (E).
Power Output	<input type="checkbox"/> VR5 (Hi)	On "Hi" position, turn VR5 for 35 W output at 444.95 MHz (T) or 36 W output at 434.95 MHz (E). Verify the lighting of the entire RF meter.
	<input type="checkbox"/> VR7 (Lo)	On "Lo" position, turn VR7 for 5 W output at 444.95 MHz (T) or 434.95 MHz (E).
RF meter	<input type="checkbox"/> VR6	On "Lo" position, adjust VR1 so that <input type="checkbox"/> on the RF meter lights up at 444.95 MHz (T) or 434.95 MHz (E).
Deviation	<input type="checkbox"/> VR3	Enter the AF level of QdBm, then pressing the PTT button, adjust VR3 so that you obtain 4.6 KHz/Dev at 444.95 MHz (T) or 434.95 MHz (E) and AF 1 kHz.
Subaudible Tone Deviation (DR-570T)		Pressing the tone button and the PTT button at 444.95 MHz, verify 0.5~1 kHz/Dev at tone frequency of 88.5 Hz.
1750 Hz Tone Deviation (DR-570E)		Connect Microphone (EHM-34A or 33A), then pressing the tone button, verify that the tone frequency is 1750 Hz and the deviation is 3.5 ( $\pm 0.1$ ) kHz.
Helical Filter	<input type="checkbox"/> TC1, 2 <input type="checkbox"/> L3, 4	Connect a tracking generator to the antenna and a spectrum analyser to TP1, then adjust TC1, 2 and L3, 4 so that the sensitivity is at its peak between 440 and 450 MHz at maximum gain. (570 E: 430–440 MHz)
Discrimination	<input type="checkbox"/> L9, 11	At 445.03 MHz (T) or 435.03 MHz (E) and 60 dB $\mu$ input, adjust L9, 11 so that the distortion is minimum at 50m W.
Sensitivity	<input type="checkbox"/> L8, TC3	Adjust L8 and TC3 so that 12 dB SINAD sensitivity is the highest at 445.03 MHz (T) or 435.03 MHz (E).
Squelch	<input type="checkbox"/> VR1	1) At 146.03 MHz (T) or 145.03 MHz (E) of the main band, cut the SG output power and adjust the main squelch knob so that the noise is intermittent. 2) At 445.03 MHz (T) or 435.03 MHz (E) of the main band, cut the SG output power and adjust VR1 so that the noise is intermittent.
S-meter	<input type="checkbox"/> VR2	At 445.03 MHz (T) or 435.03 MHz (E) and -3 dB $\mu$ [EMF], adjust VR2 so that <input type="checkbox"/> in the S-meter begins to light.

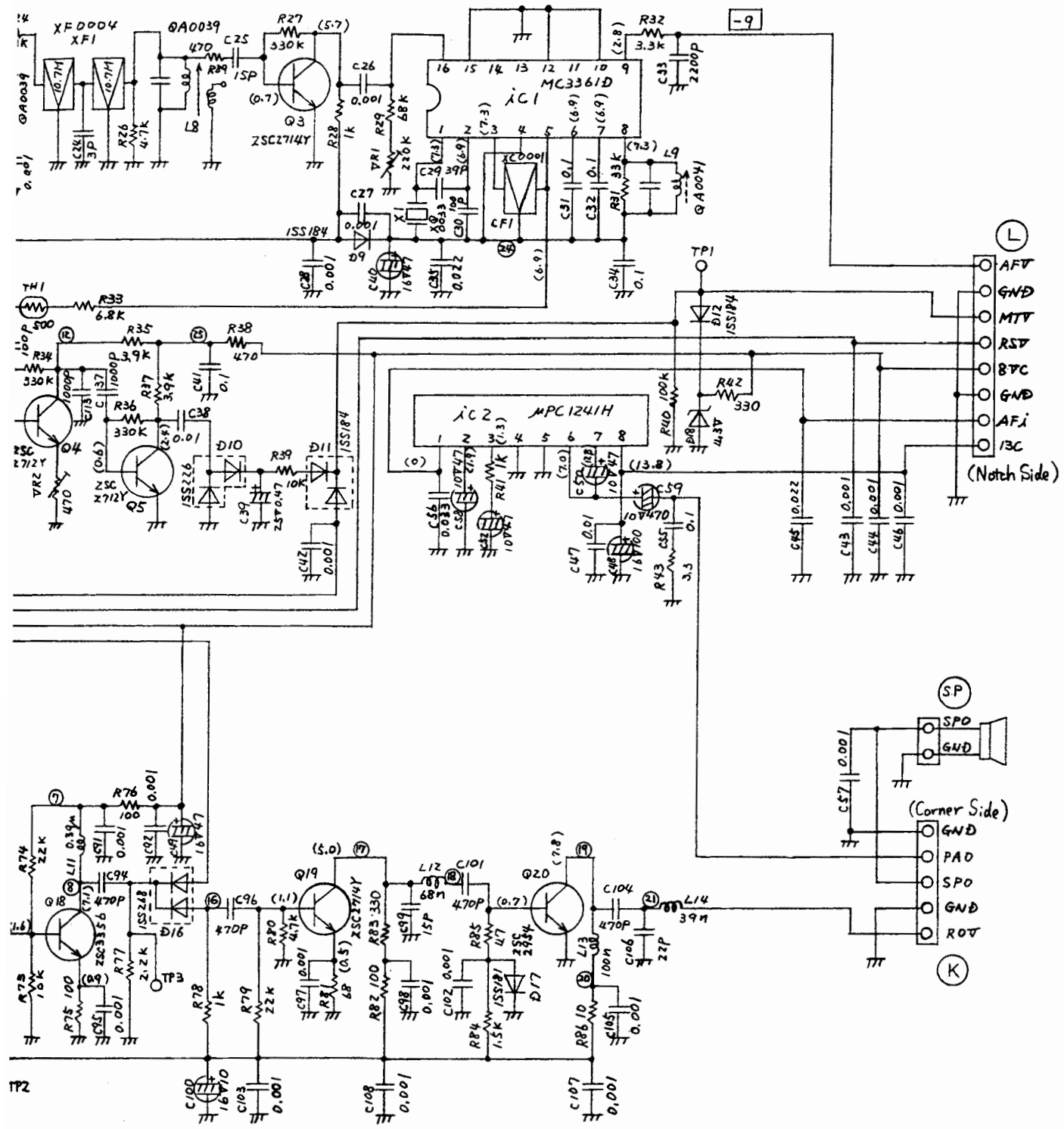


# CONNECTION DIAGRAM



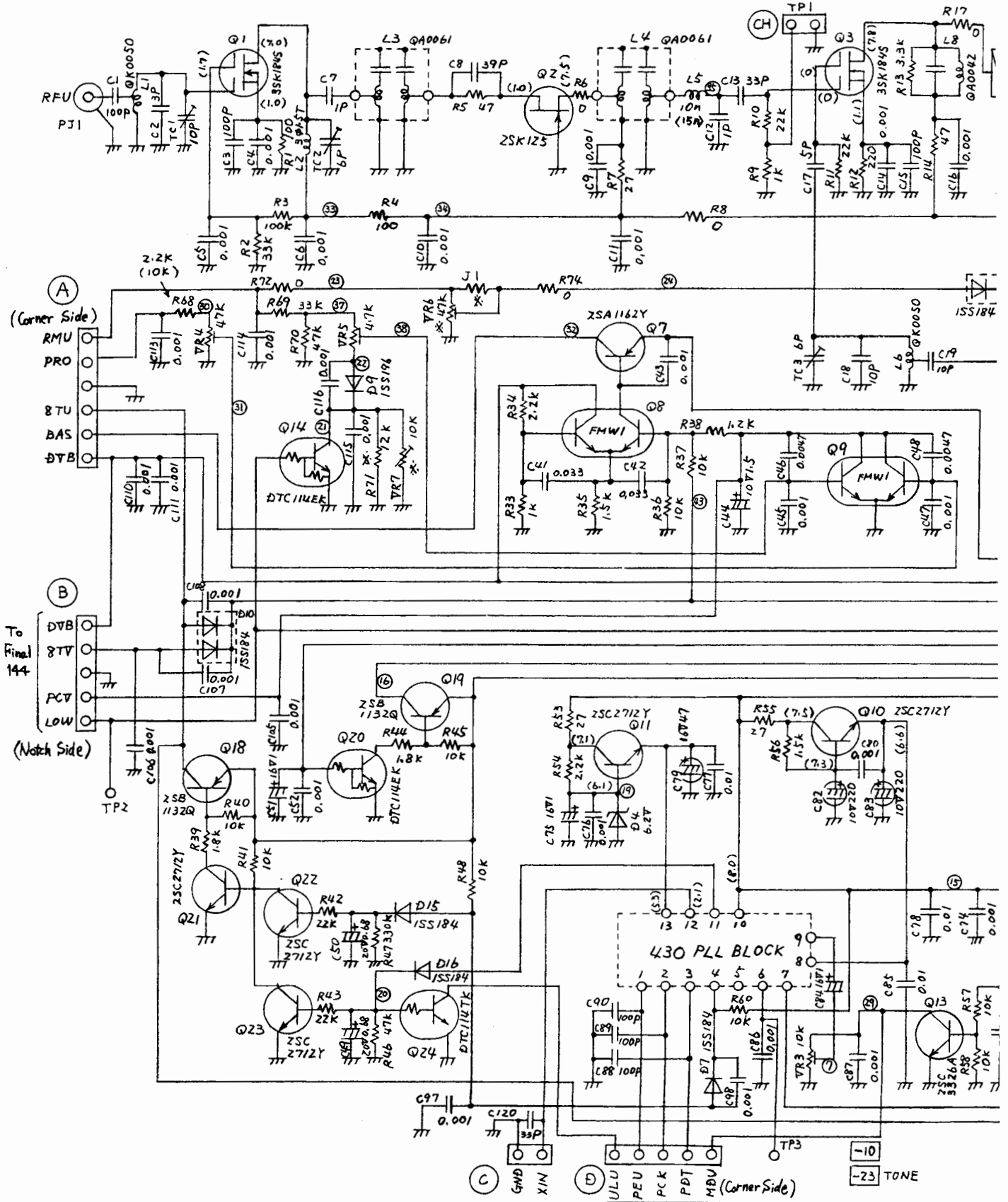
# VHF MAIN SCHEMATIC DIAGRAM

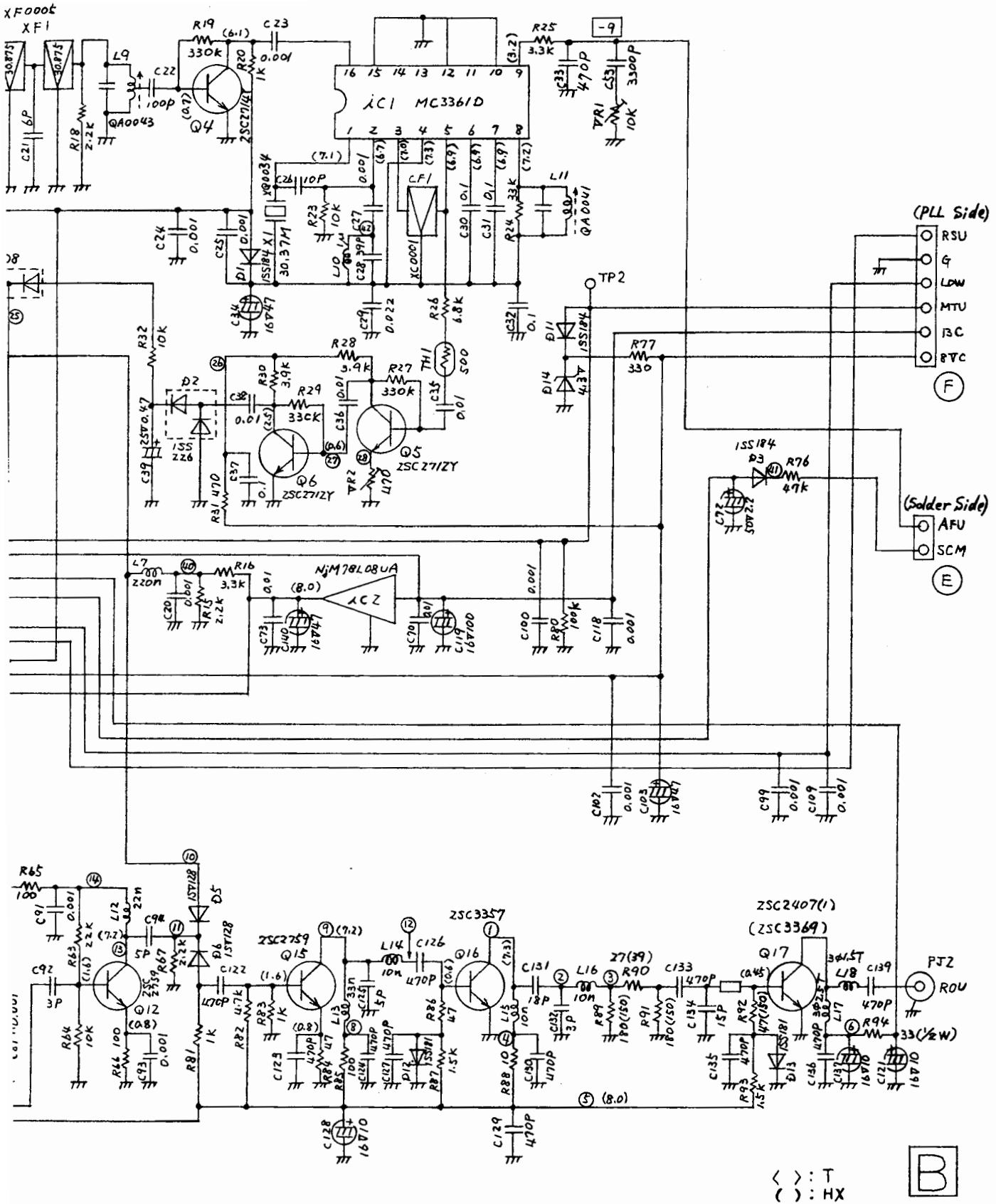




A

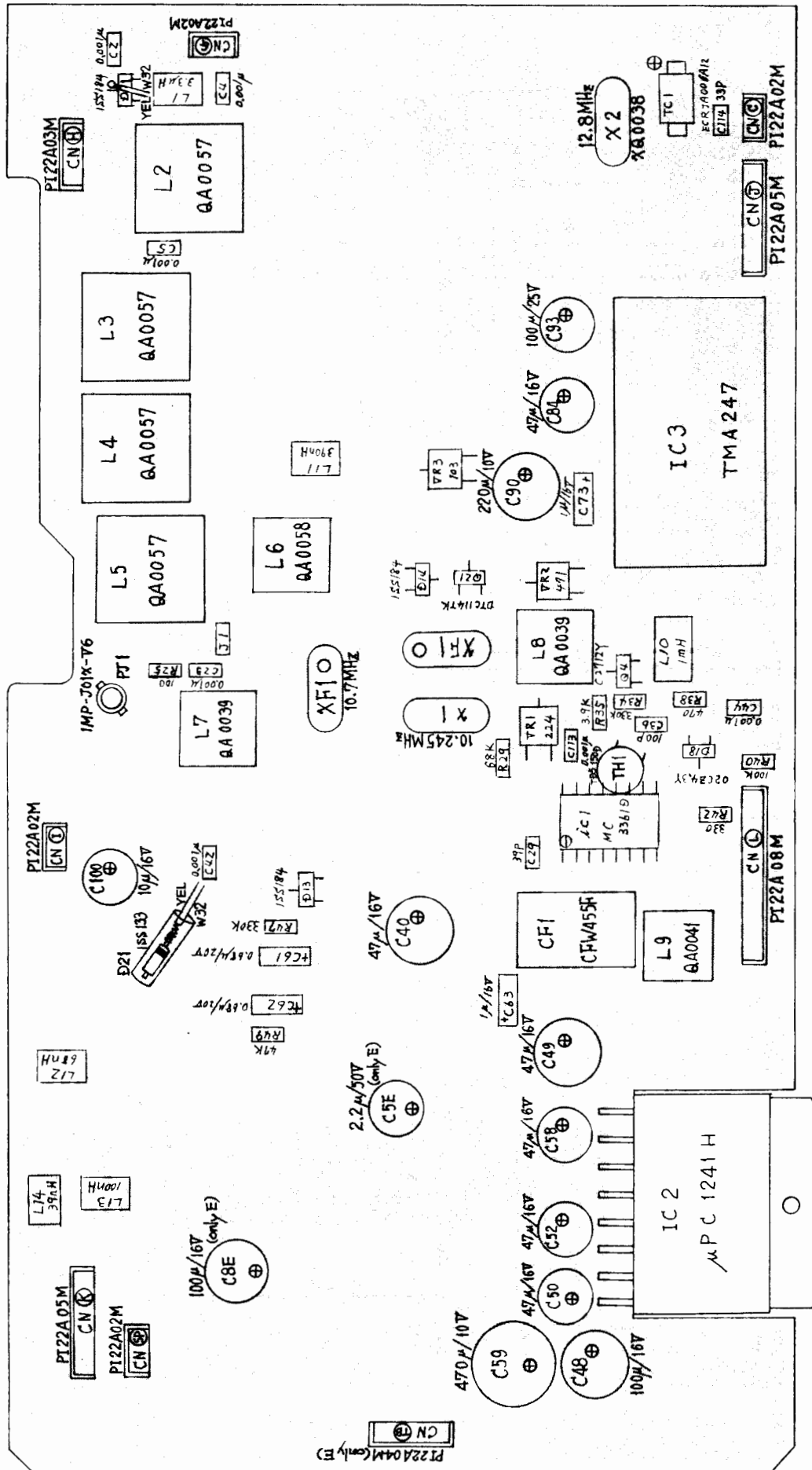
# UHF MAIN SCHEMATIC DIAGRAM





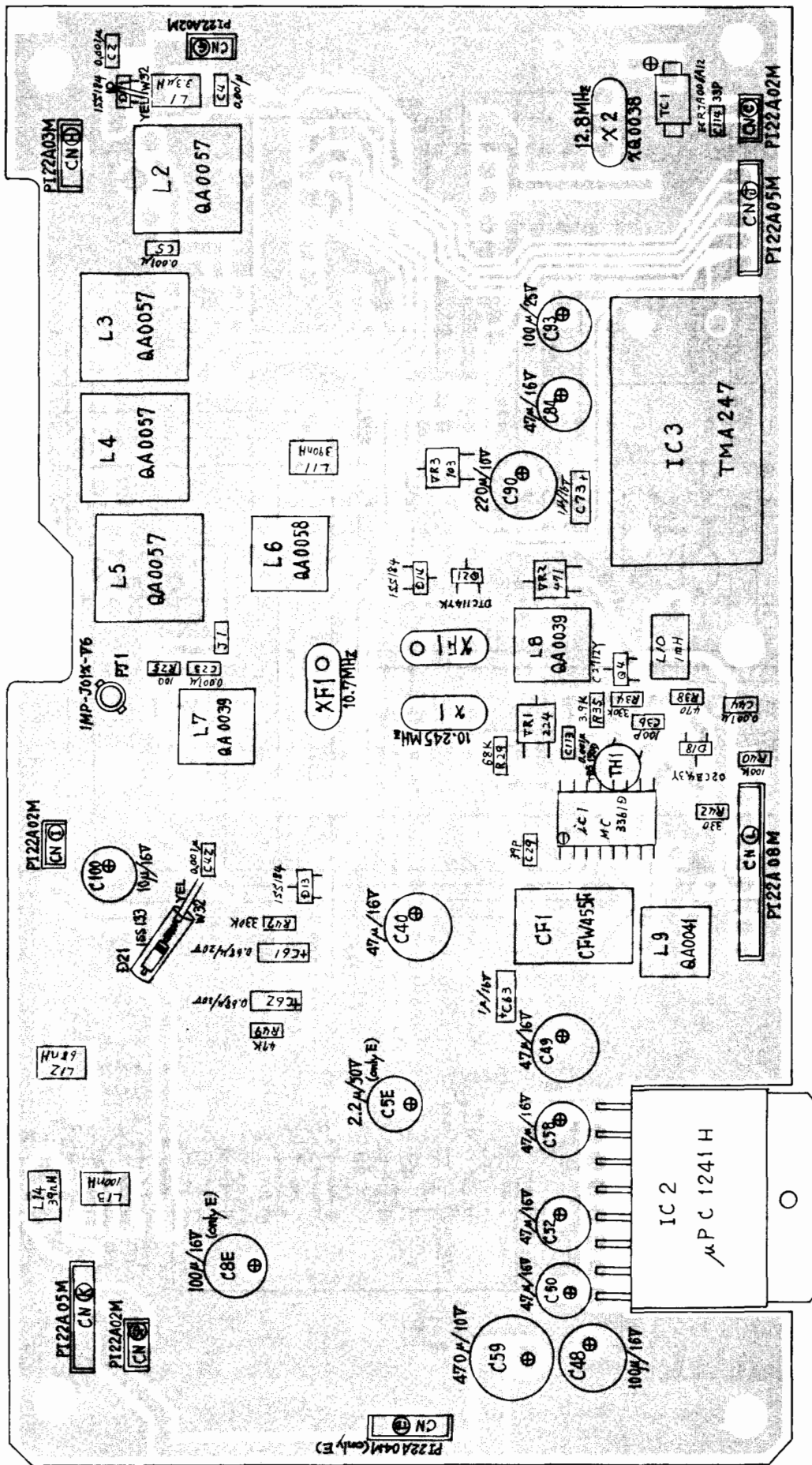


# ■ VHF MAIN PC BOARD

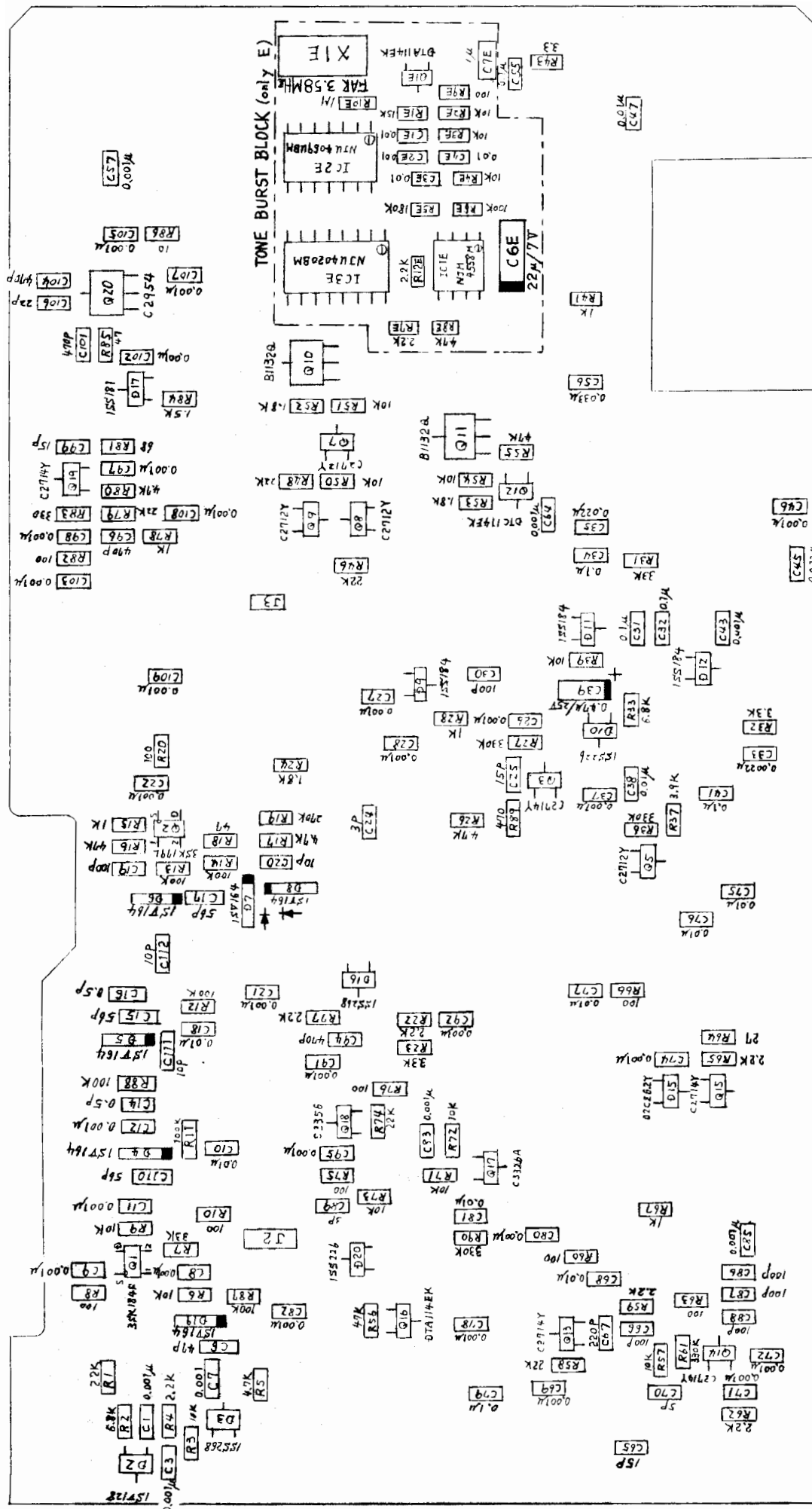


(Part)

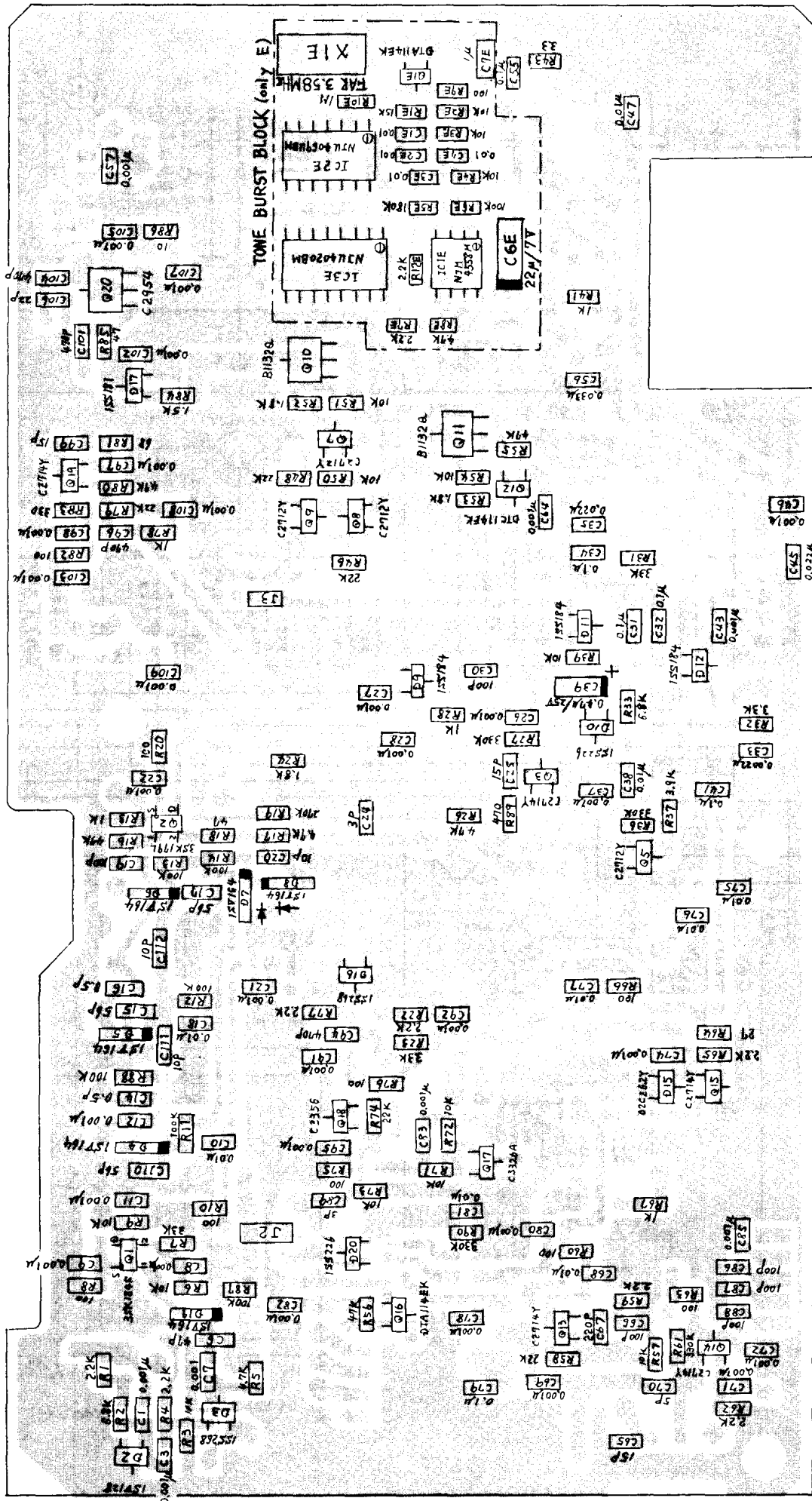
■ VHF MAIN PC BOARD



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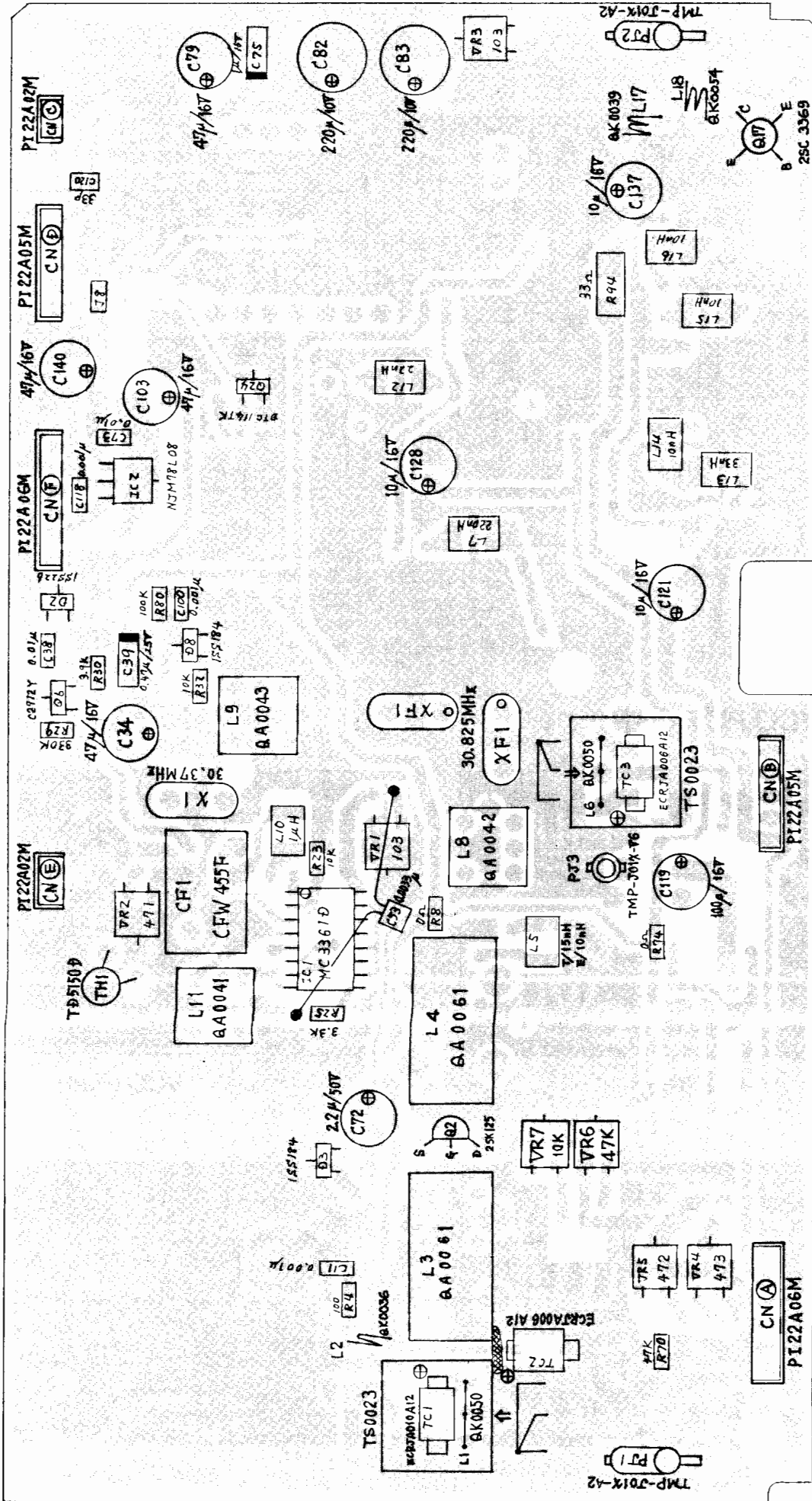


(Solder)



(Solder)

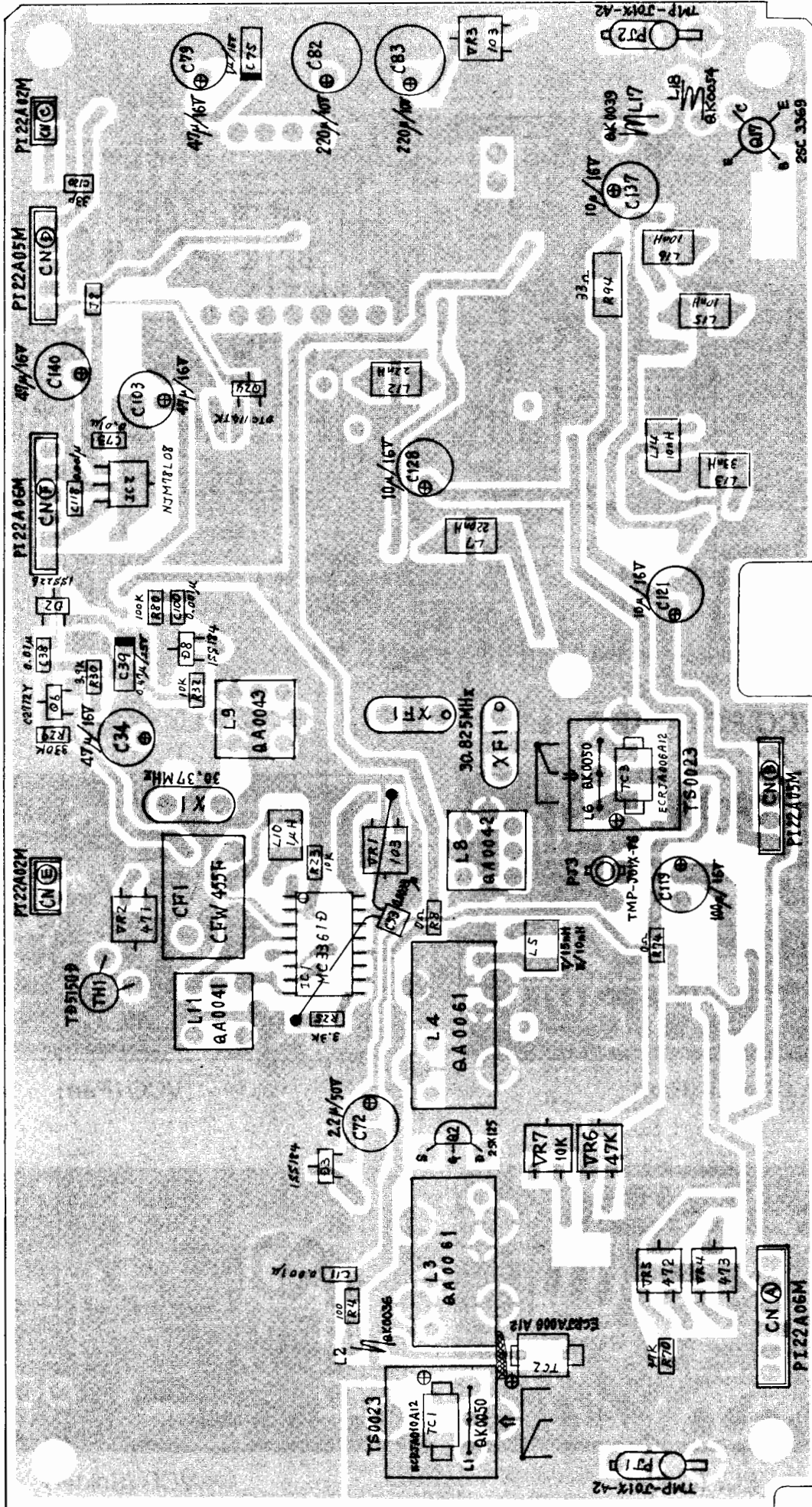
# UHF MAIN PC BOARD



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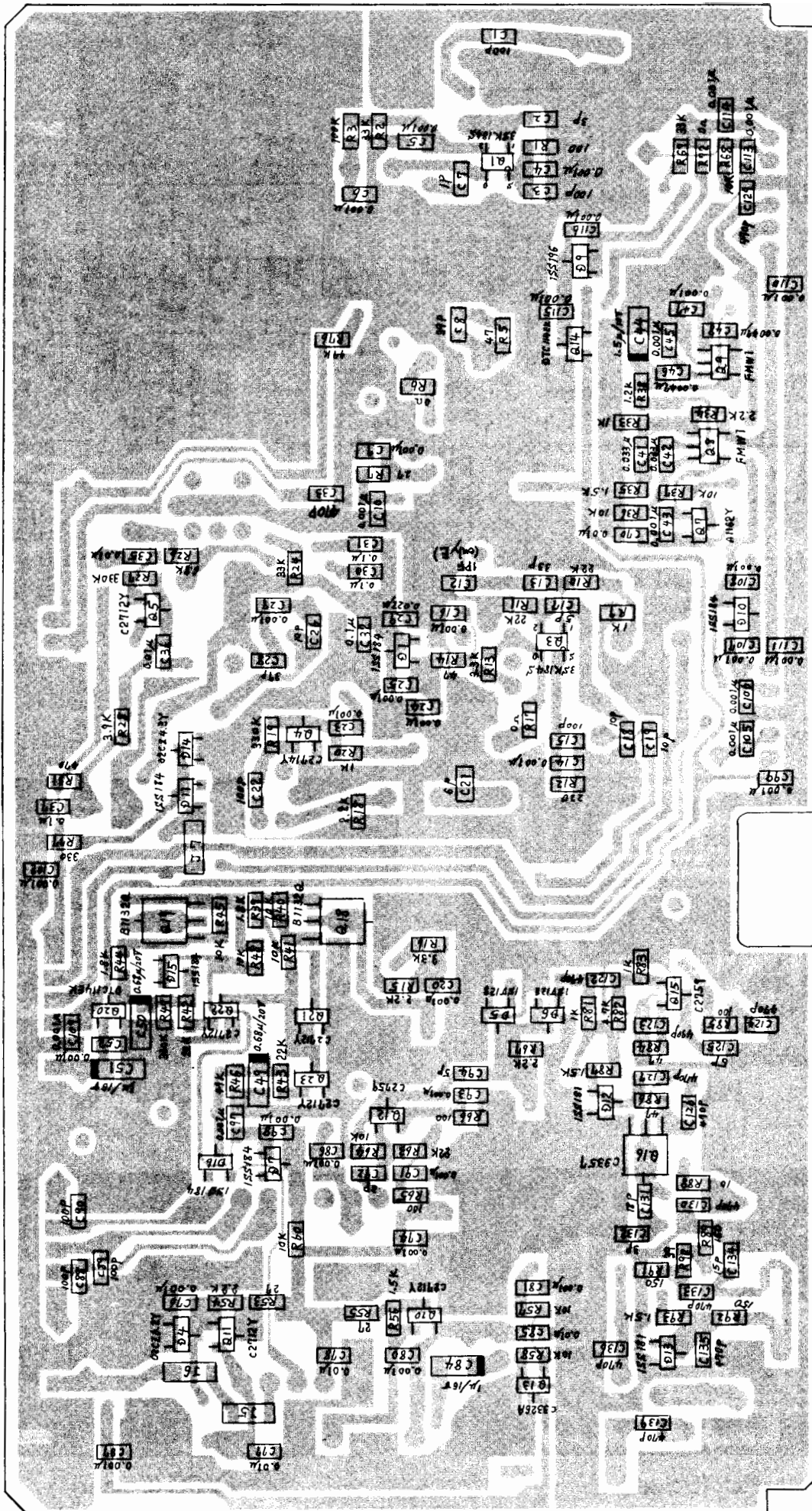
UHF MAIN PC BOARD



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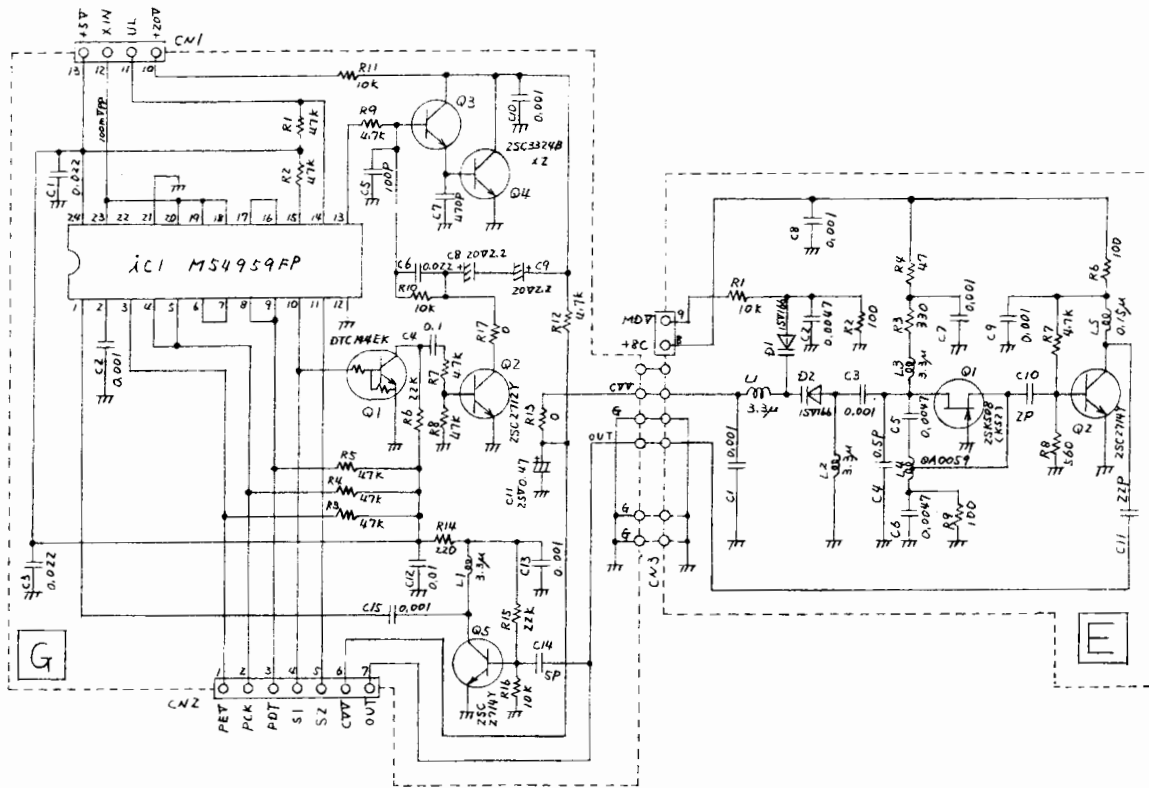




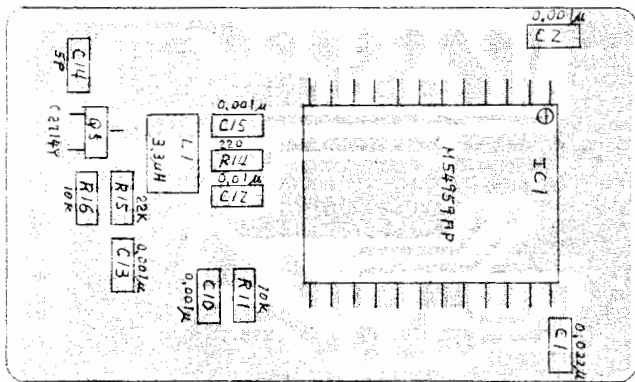


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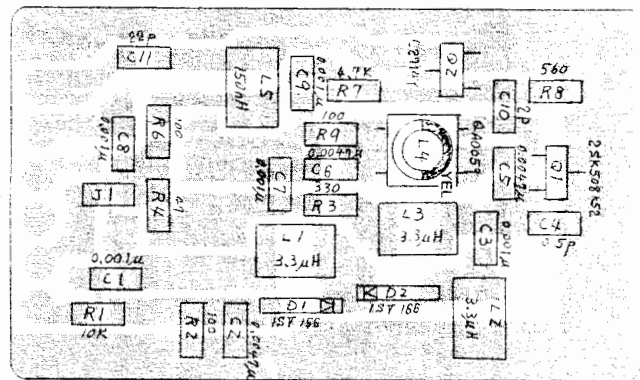
# ■ VHF PLL, VCO SCHEMATIC DIAGRAM



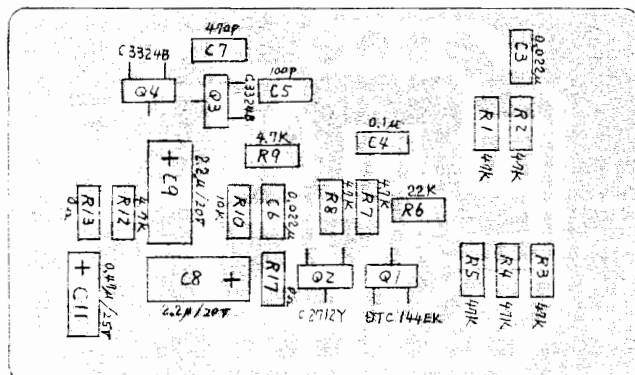
# ■ VHF PLL, VCO PC BOARD



PLL (Part)



VCO (Part)

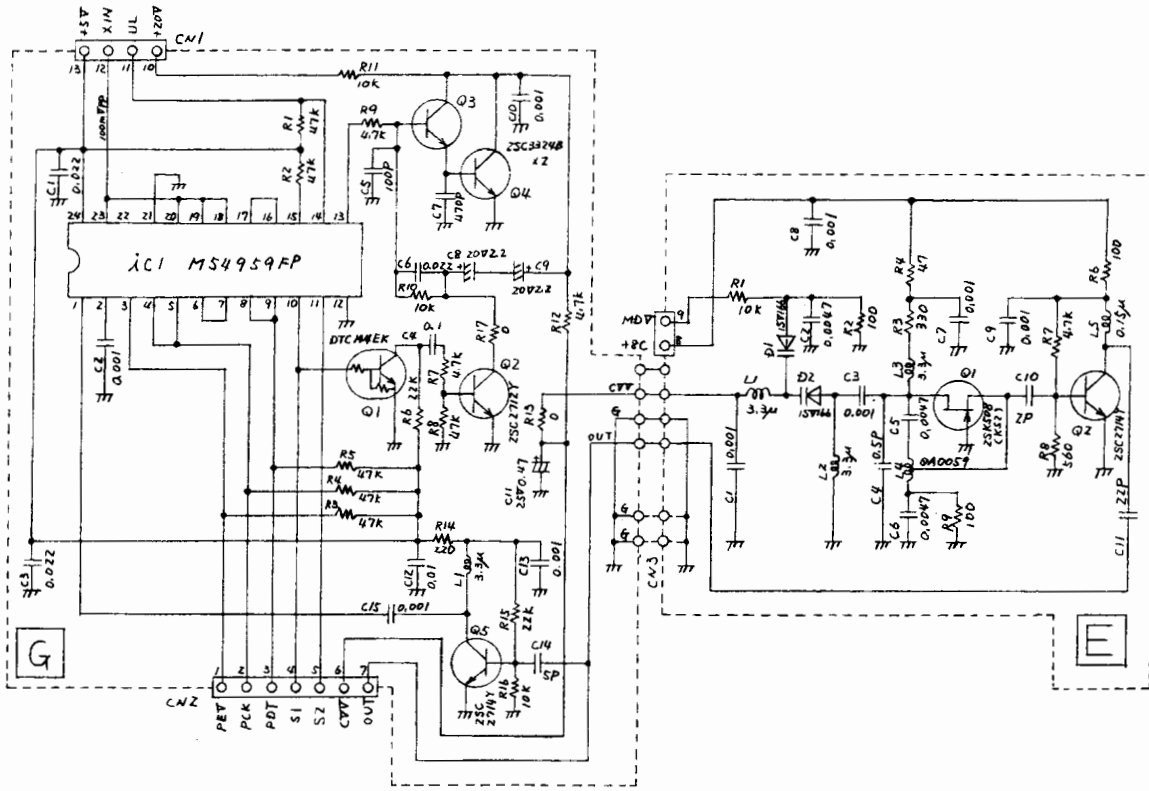


PLL (Solder)

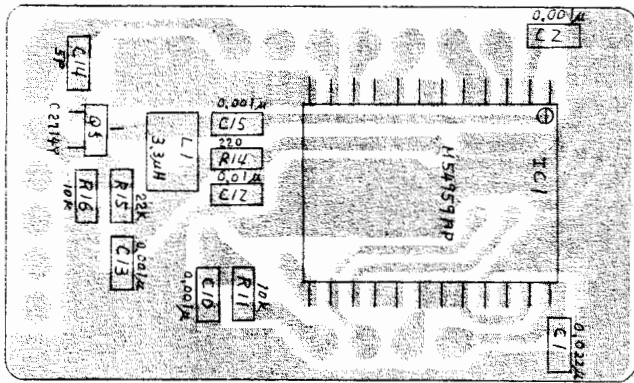


VCO (Solder)

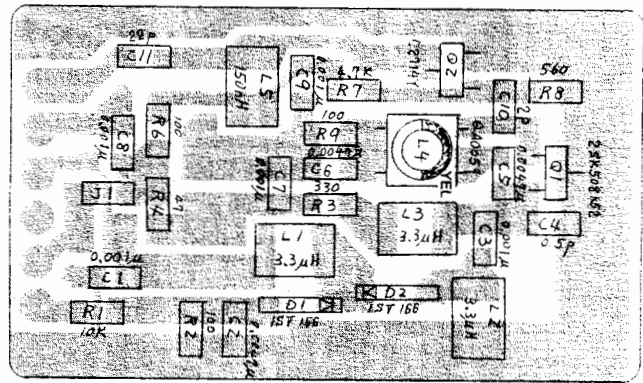
# ■ VHF PLL, VCO SCHEMATIC DIAGRAM



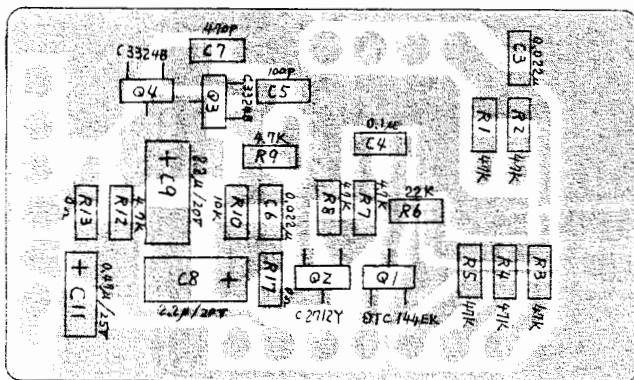
# ■ VHF PLL, VCO PC BOARD



PLL (Part)



VCO (Part)

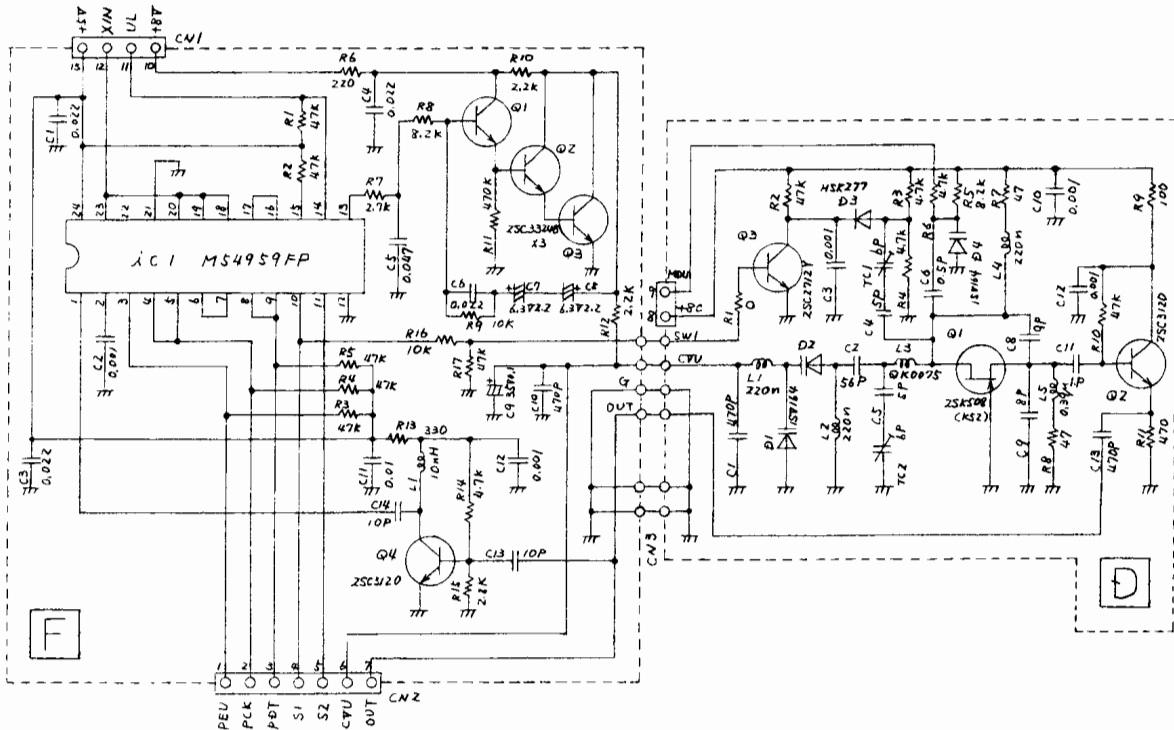


PLL (Solder)

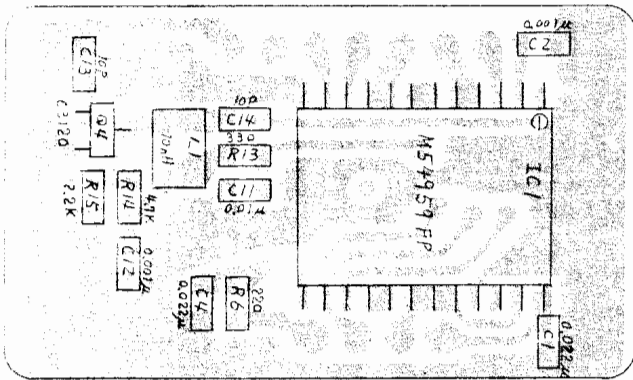


VCO (Solder)

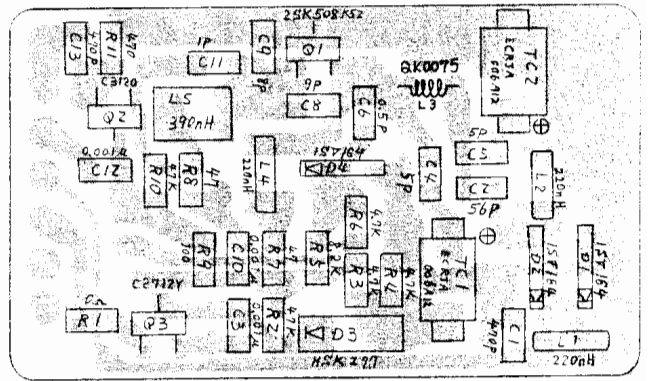
# UHF PLL, VCO SCHEMATIC DIAGRAM



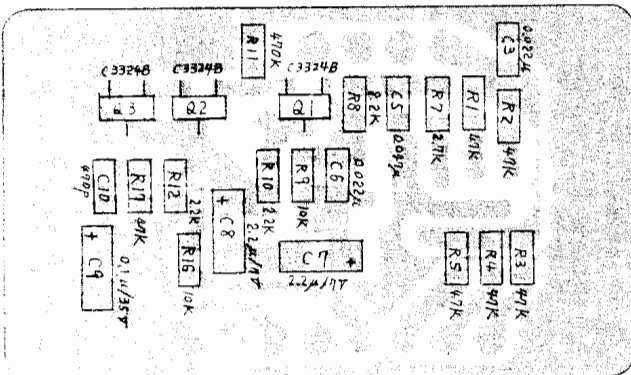
# UHF PLL, VCO PC BOARD



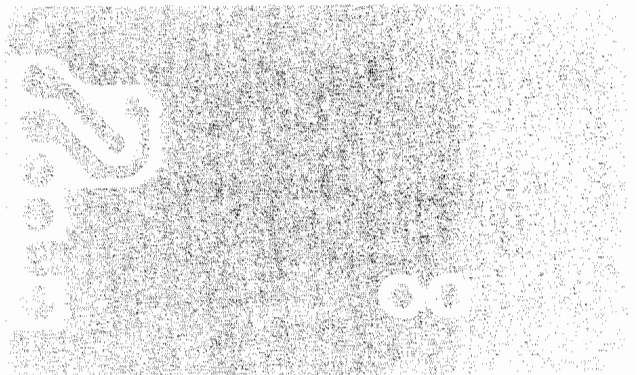
PLL (Part)



VCO (Part)



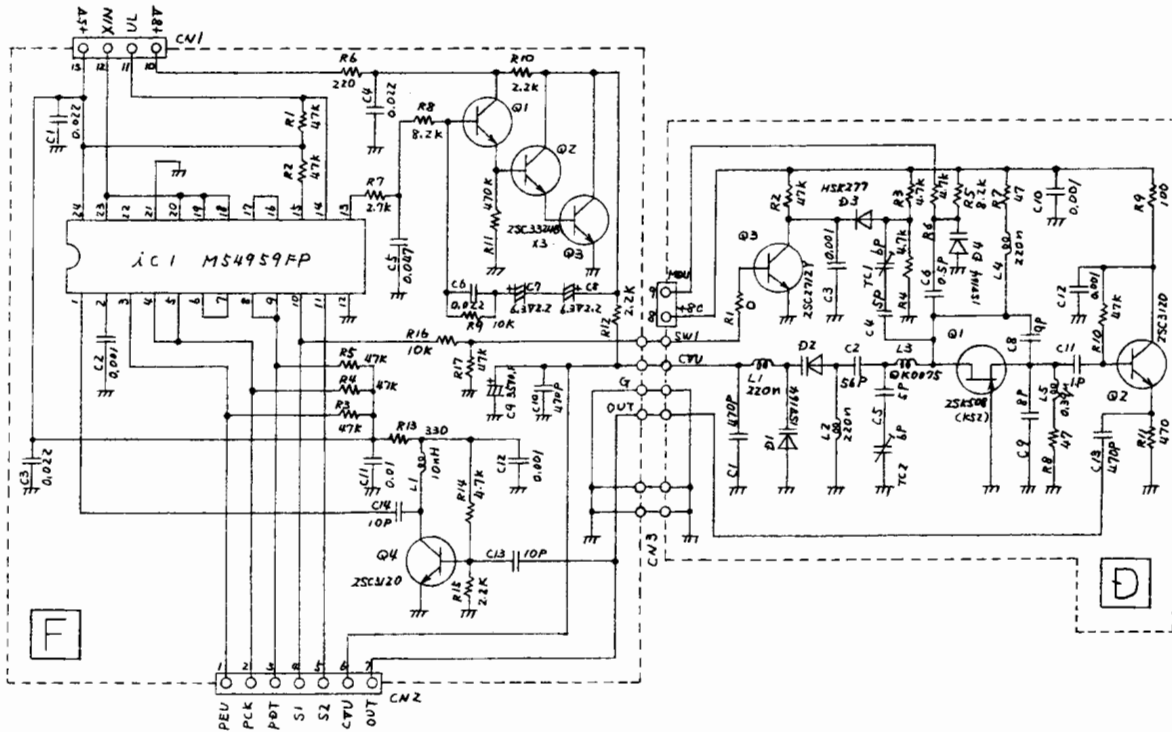
PLL (Solder)



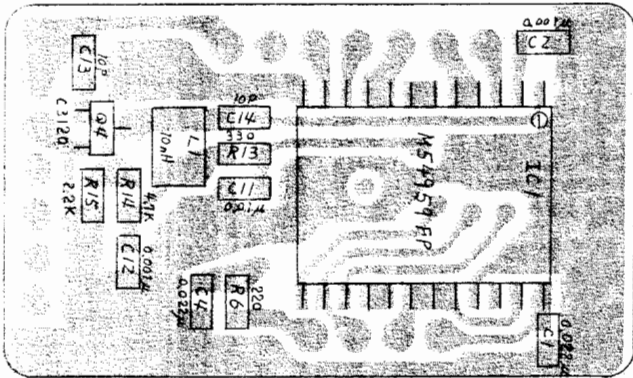
VCO (Solder)



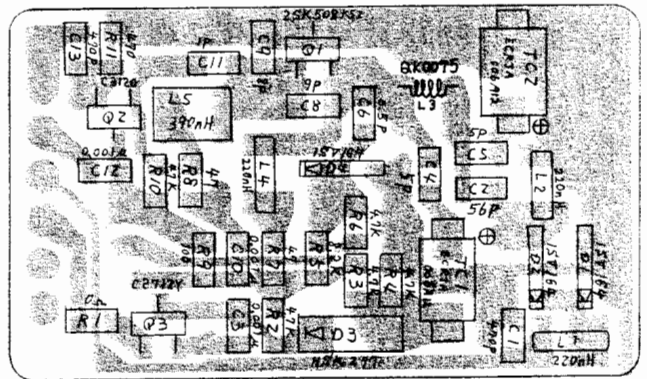
# UHF PLL, VCO SCHEMATIC DIAGRAM



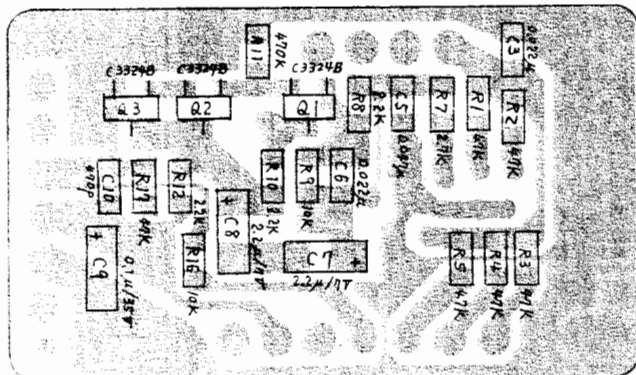
# UHF PLL, VCO PC BOARD



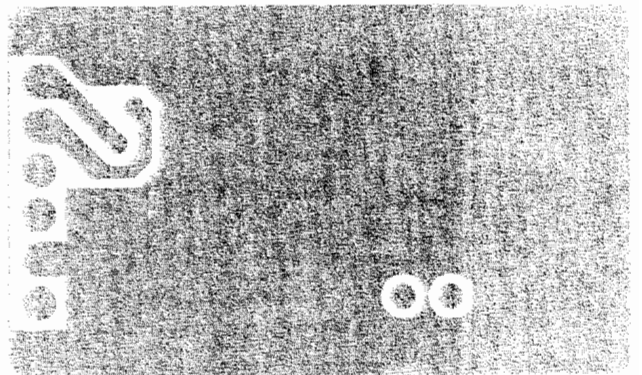
PLL (Part)



VCO (Part)

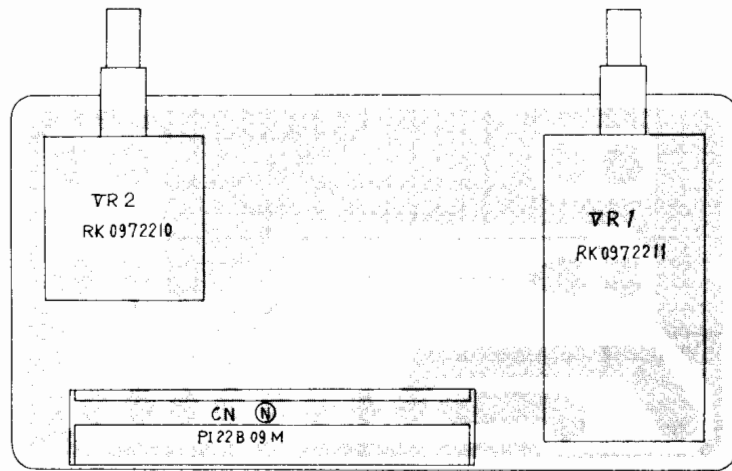


PLL (Solder)

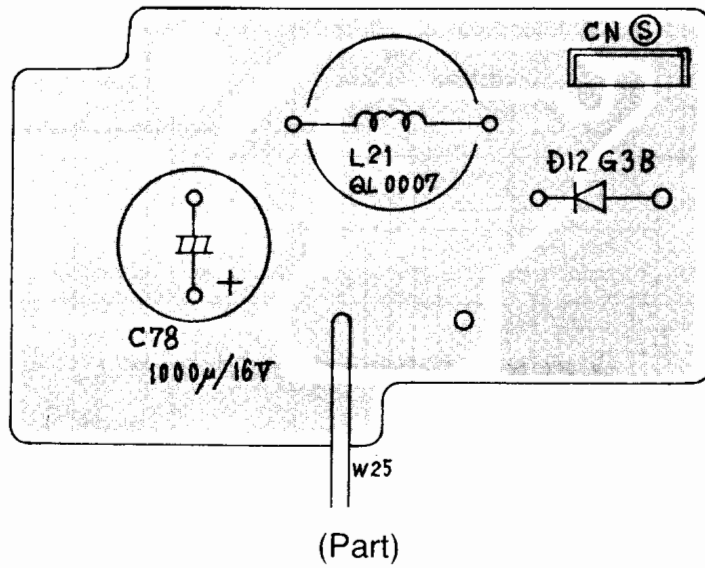


VCO (Solder)

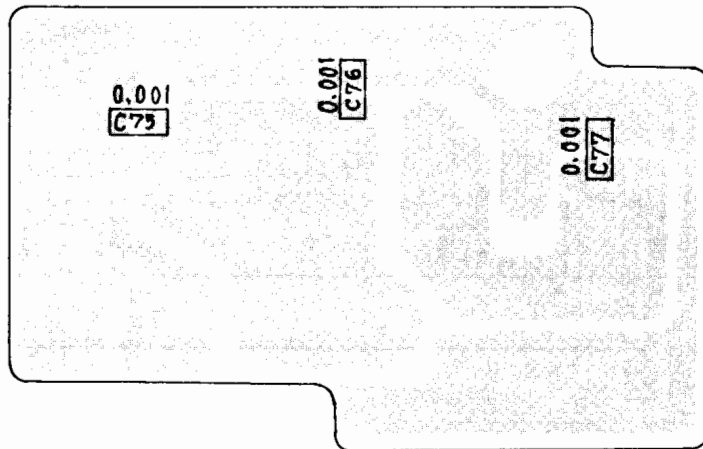
## ■ VOL PC BOARD



## ■ POWER SUPPLY PC BOARD

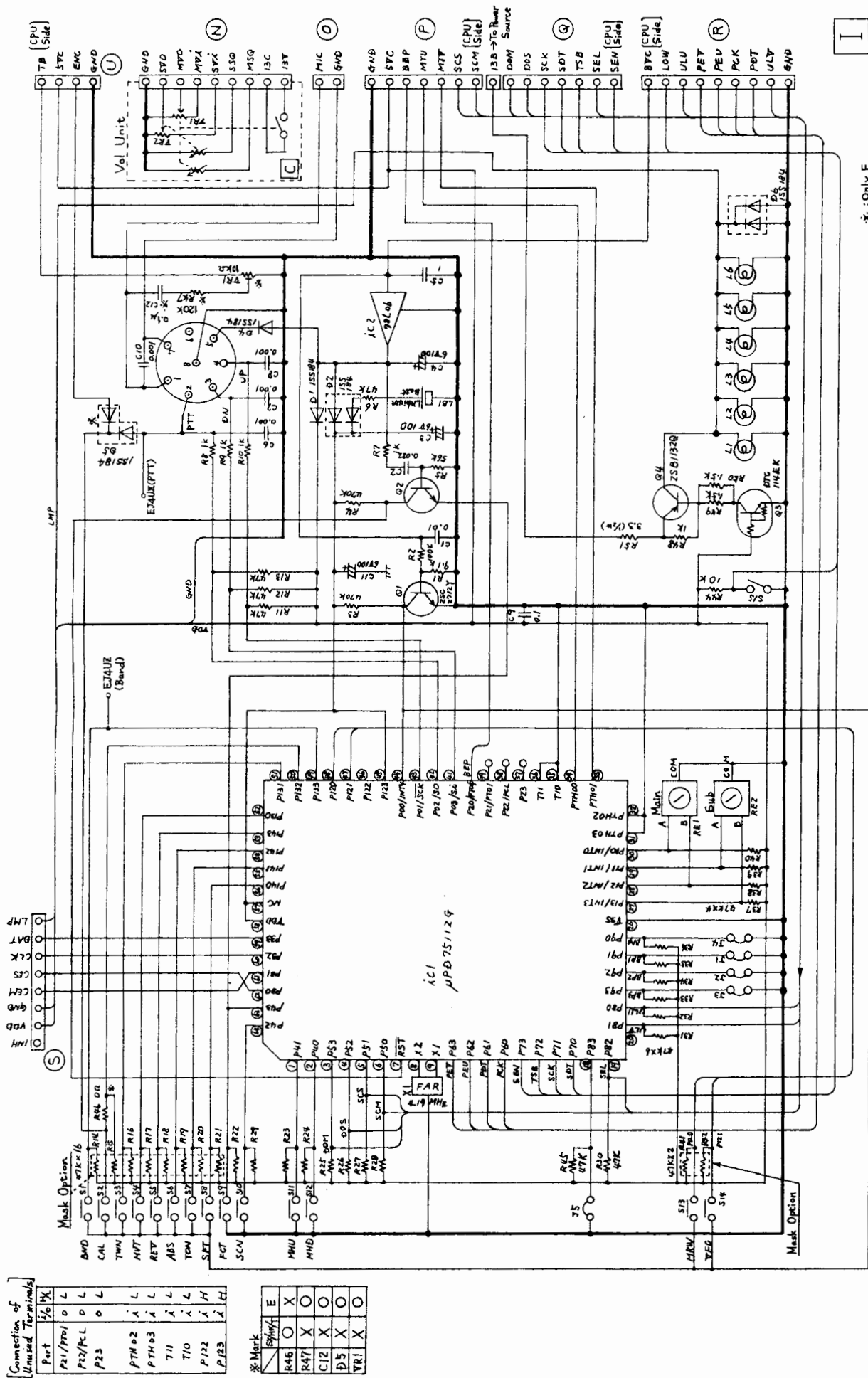


(Part)



(Solder)

# ■ CPU SCHEMATIC DIAGRAM



Connection of Unused Terminals

Part	1/6	PK
P1/P701	0	L
P12/PCL	0	L
P23	0	L
PTM02	A	L
PTM03	A	L
T11	A	L
T10	A	L
P122	A	H
P123	A	H

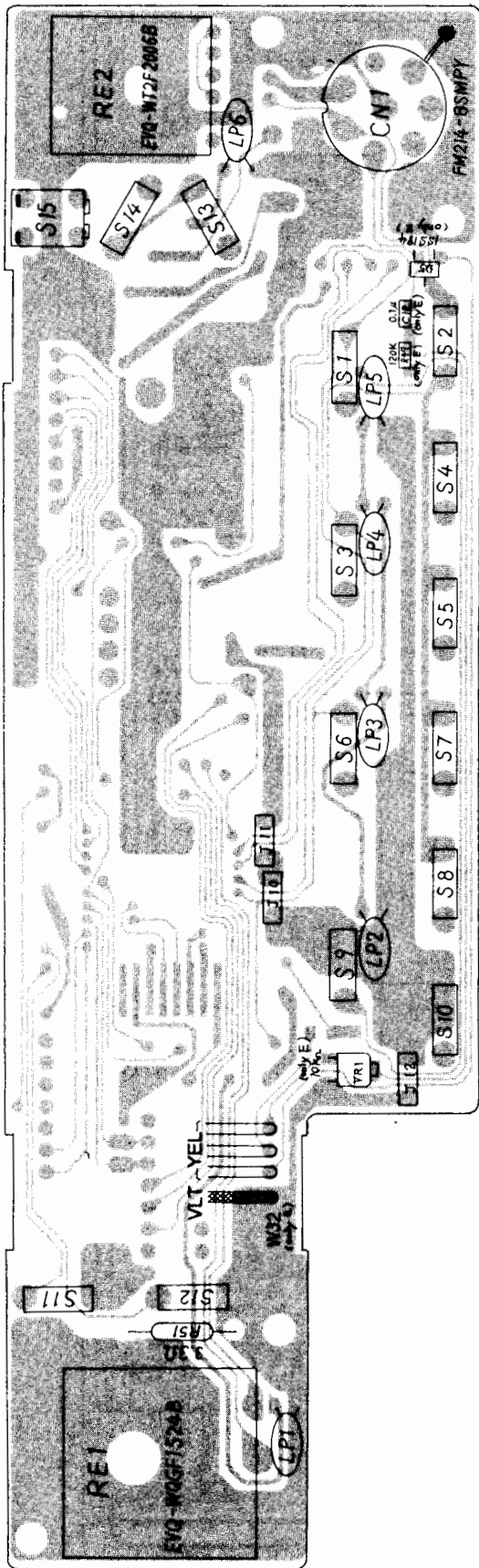
\*Mark

Part	Mark
R46	X
R47	X
C12	X
D5	X
VR1	X

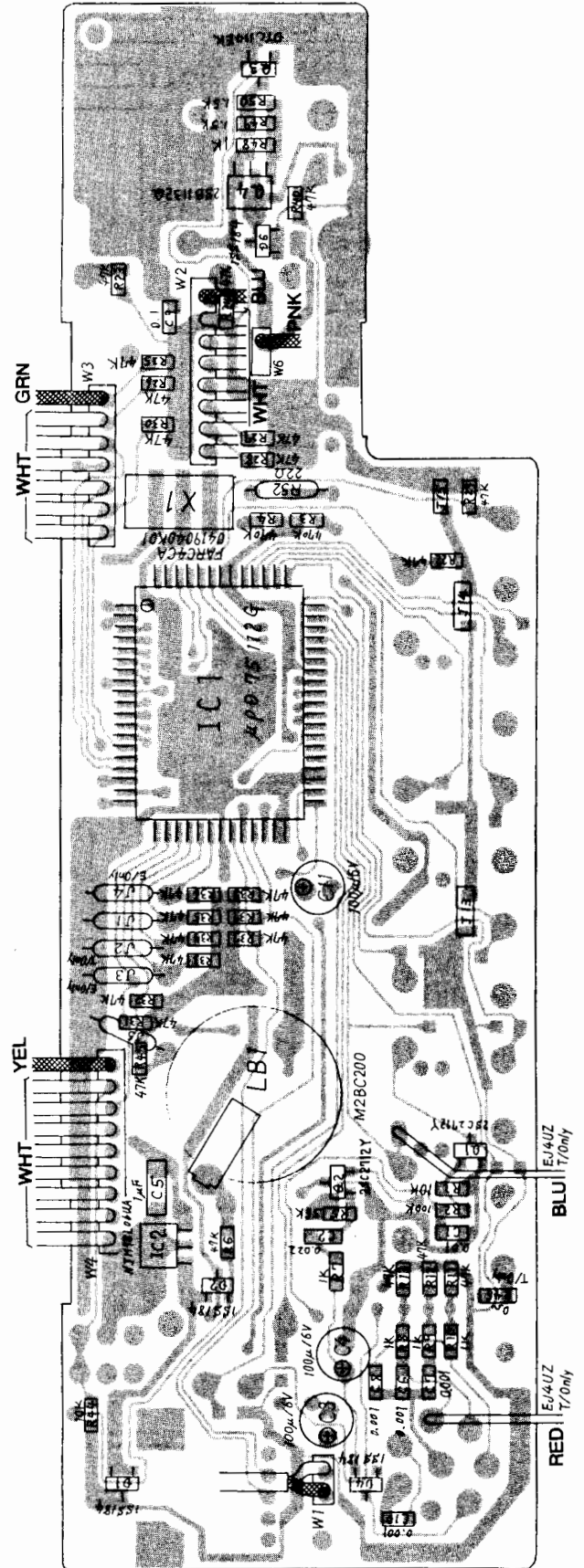
\*: Only E



# ■ CPU PC BOARD



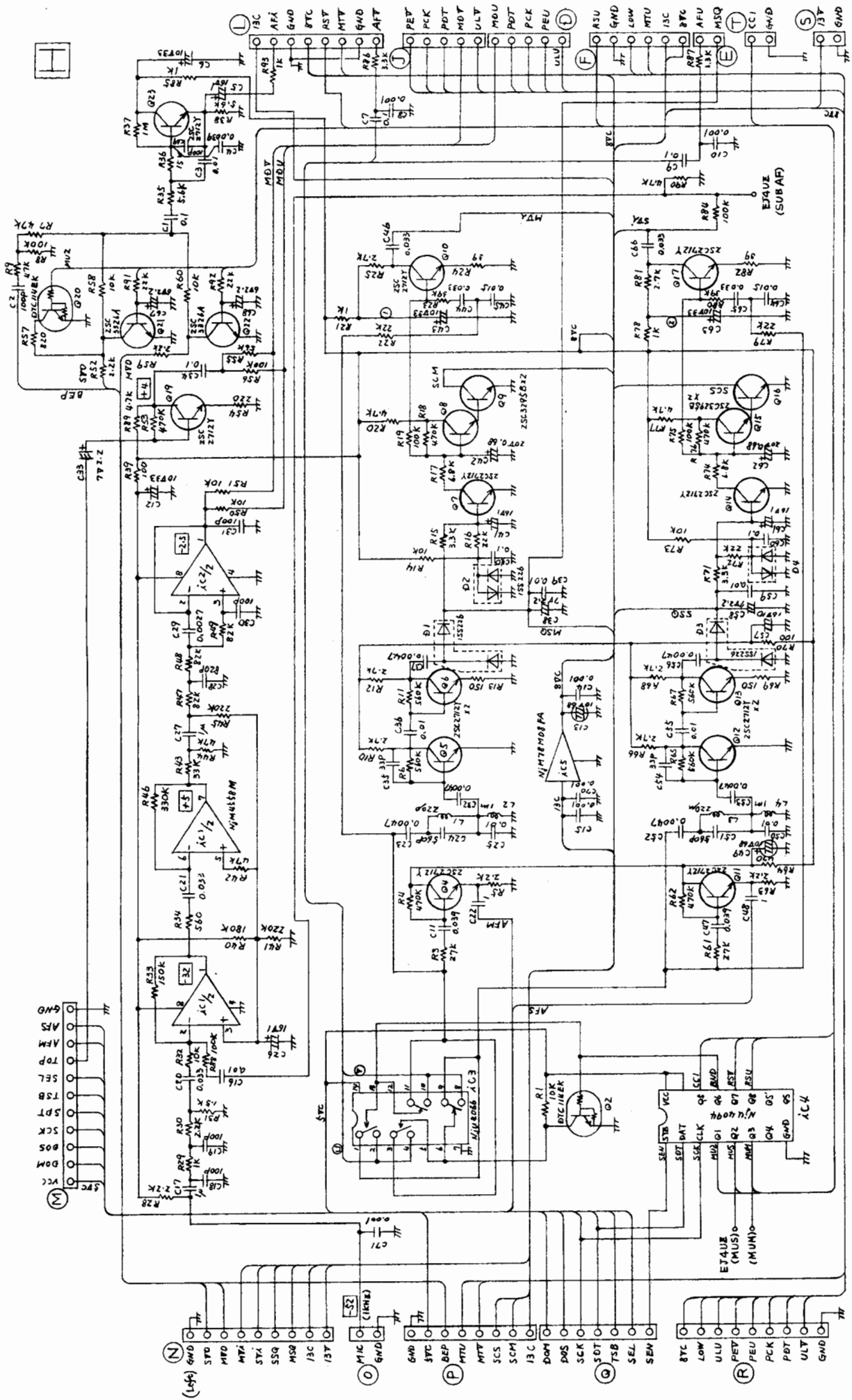
(Part)



(Solder)



# CONTROL SCHEMATIC DIAGRAM

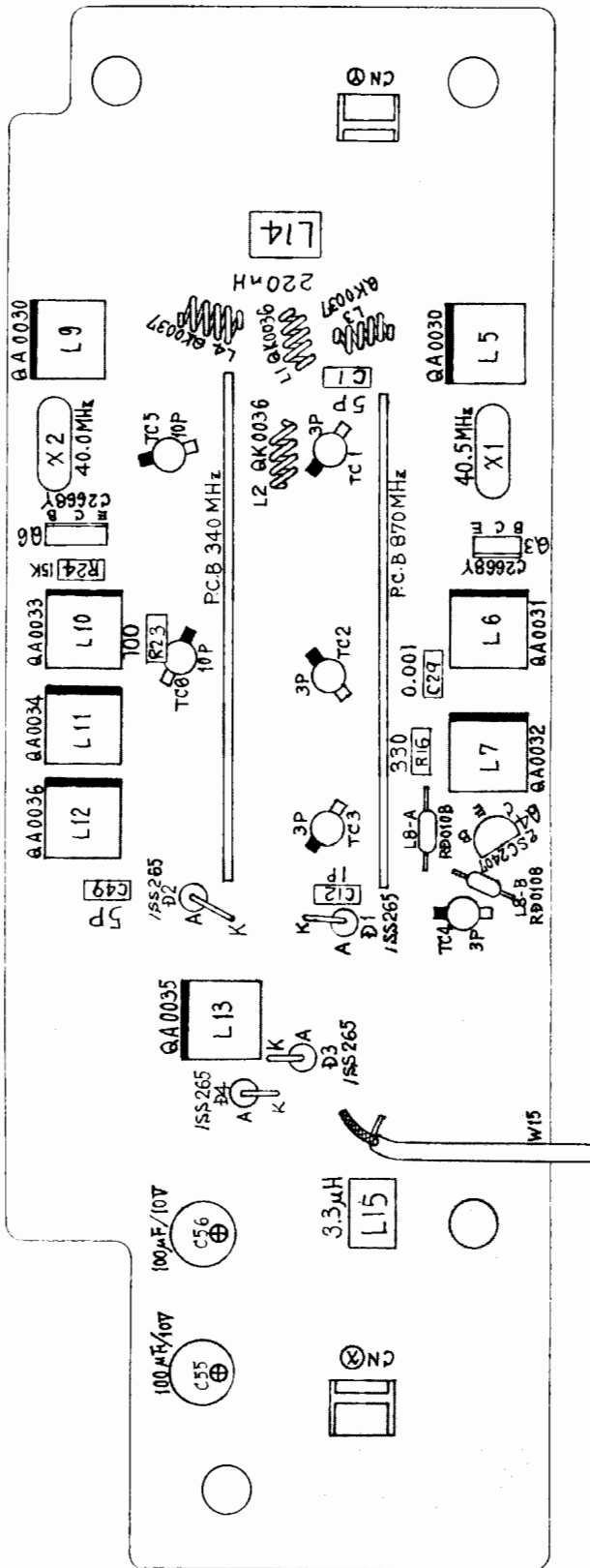




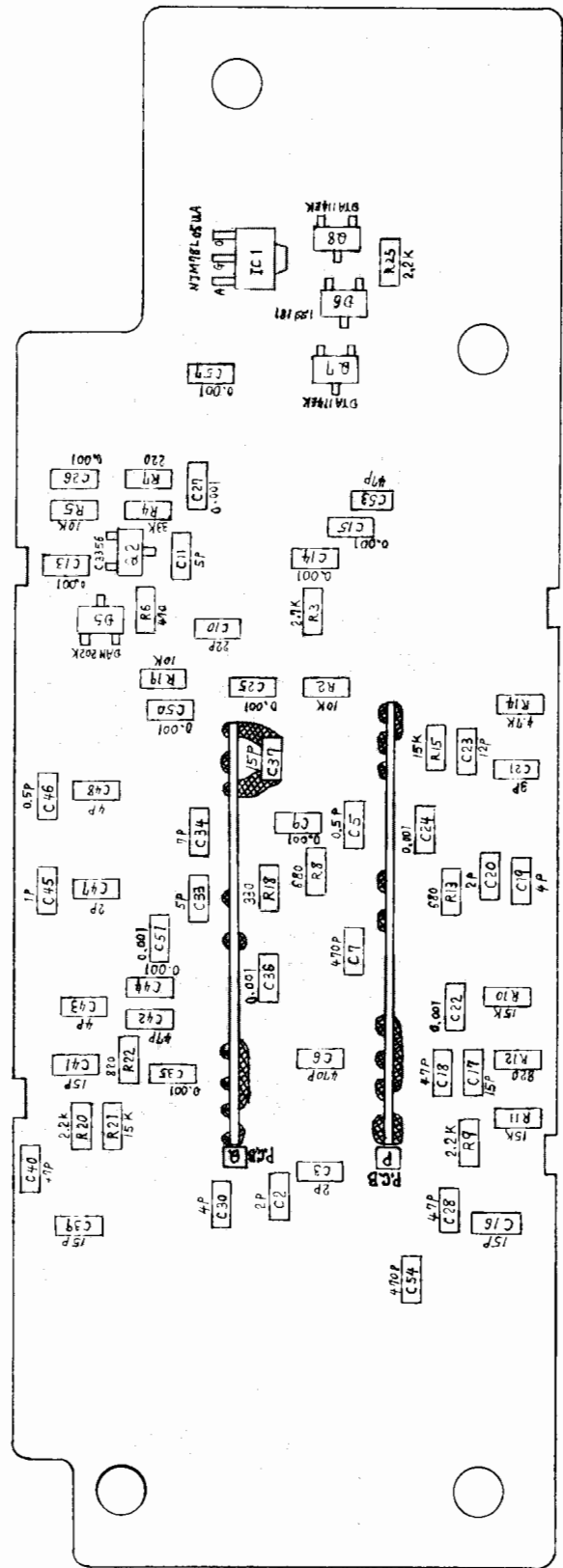




■ X'CON PC BOARD



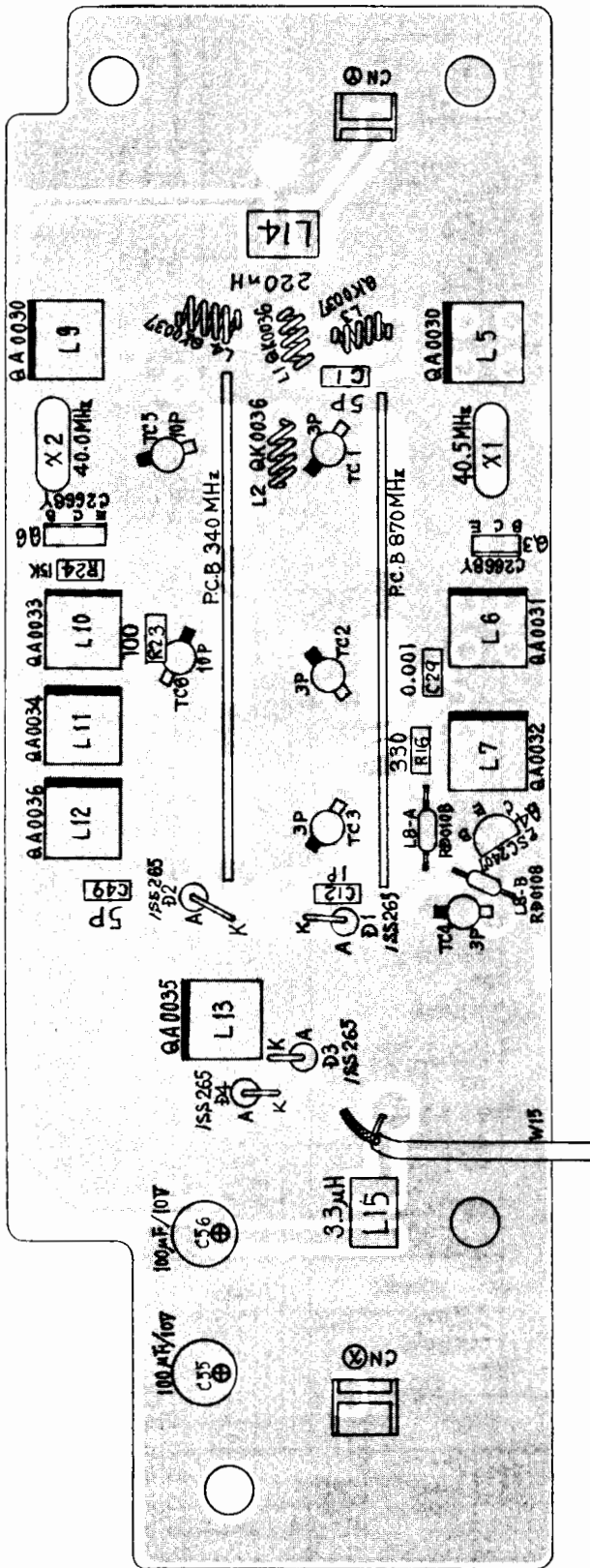
(Part)



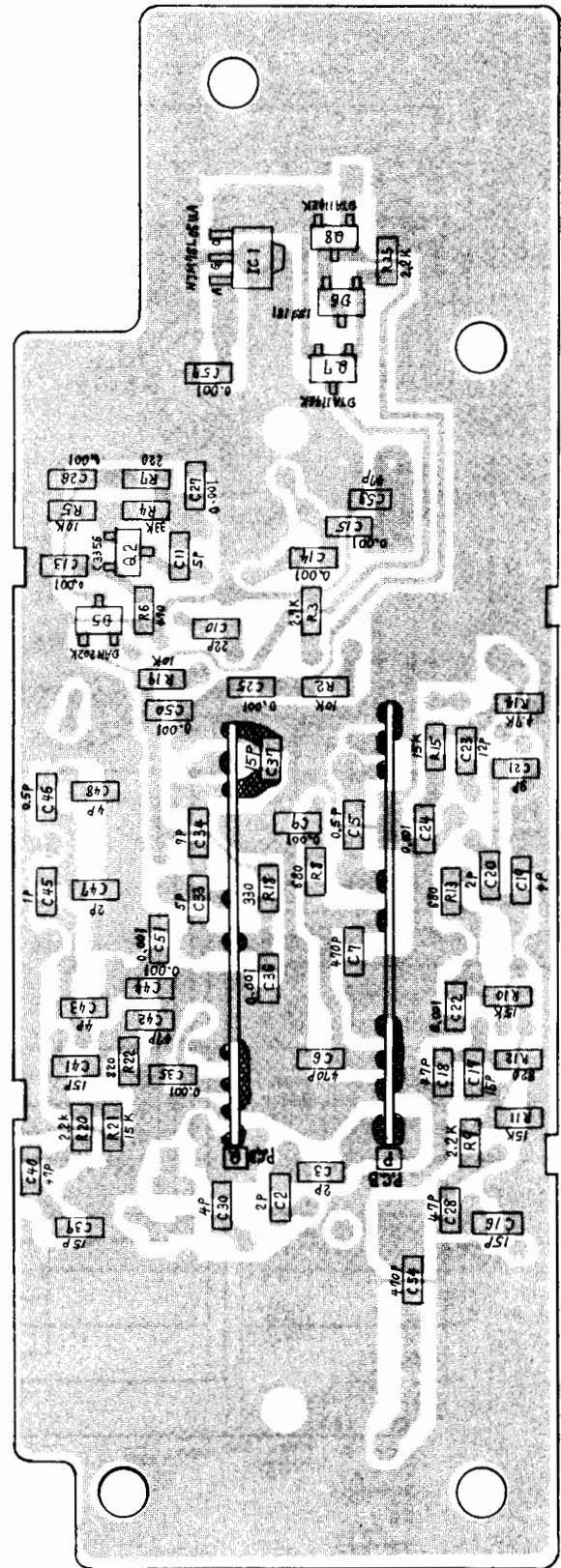
(Solder)



■ X'CON PC BOARD



(Part)

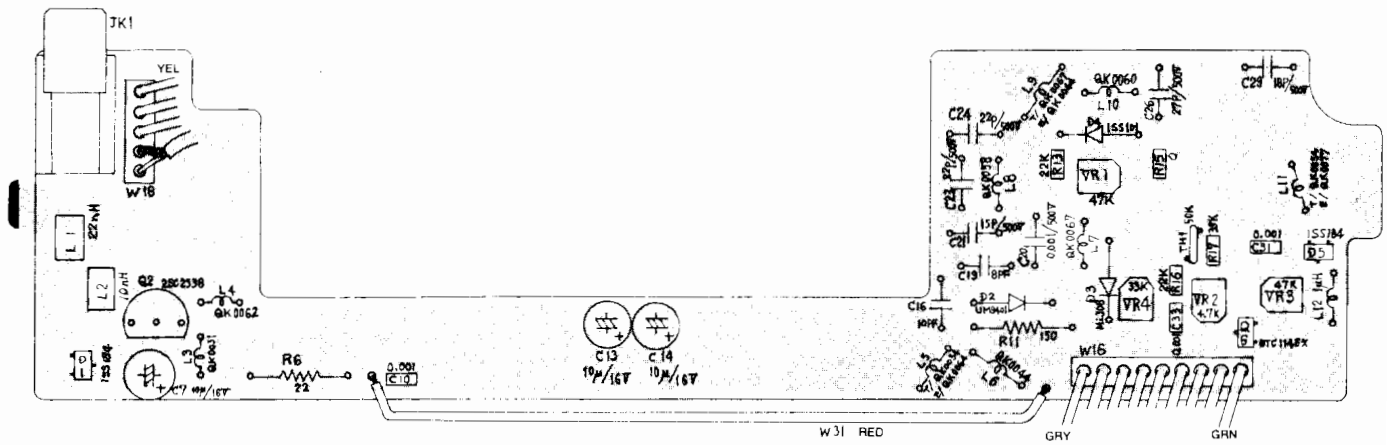


(Solder)

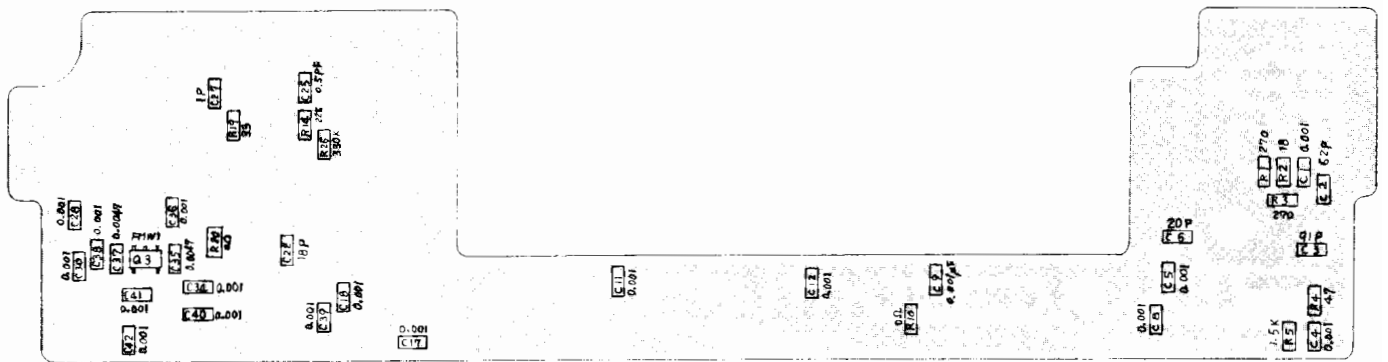




# ■ VHF FINAL PC BOARD

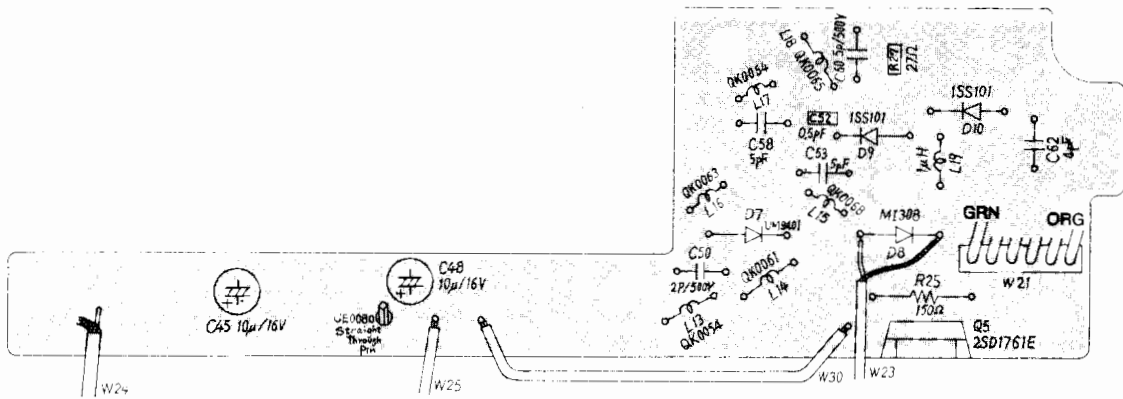


(Part)

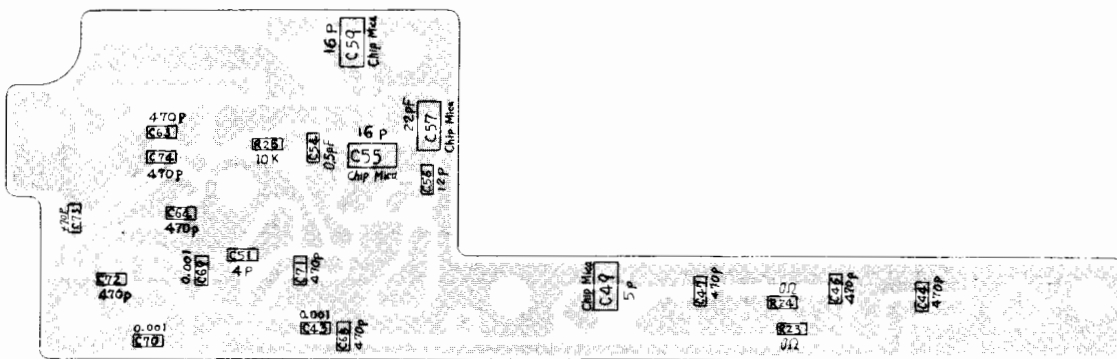


(Solder)

# ■ UHF FINAL PC BOARD

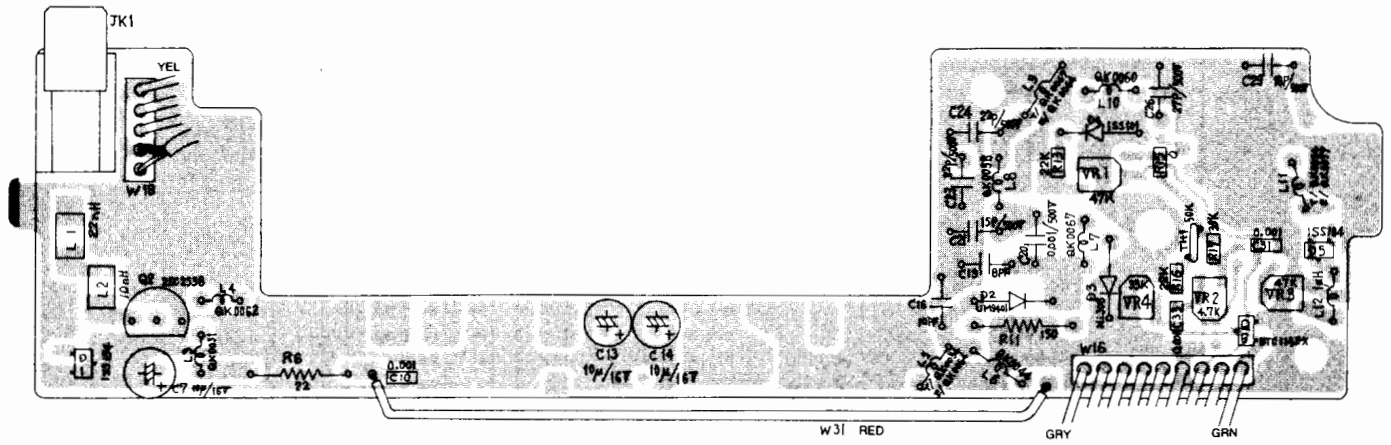


(Part)

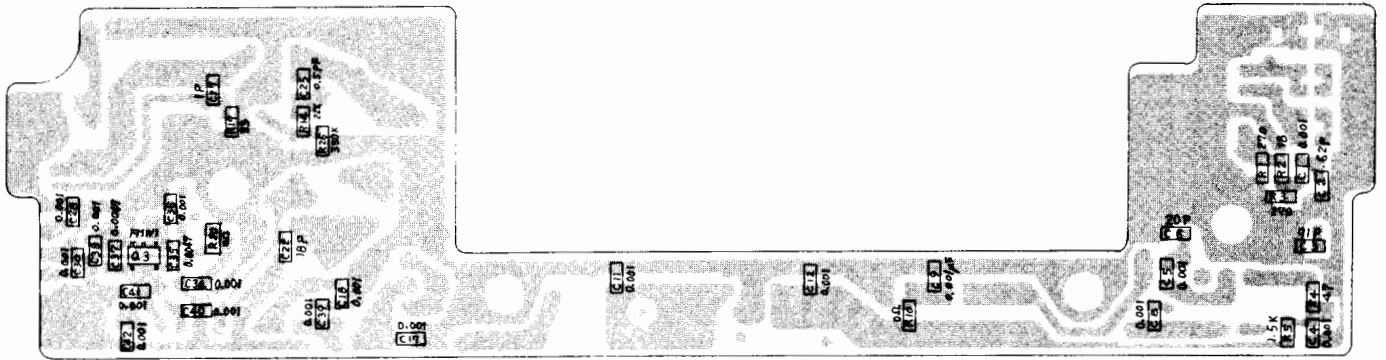


(Solder)

## ■ VHF FINAL PC BOARD

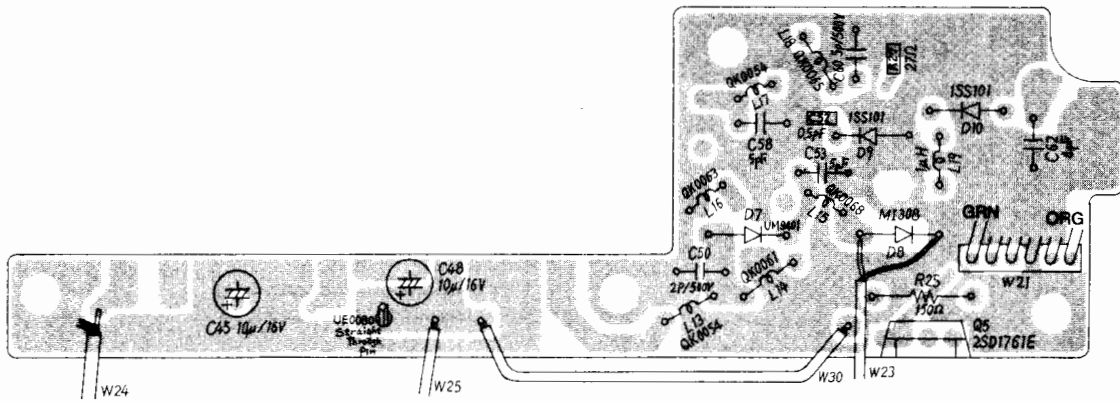


(Part)

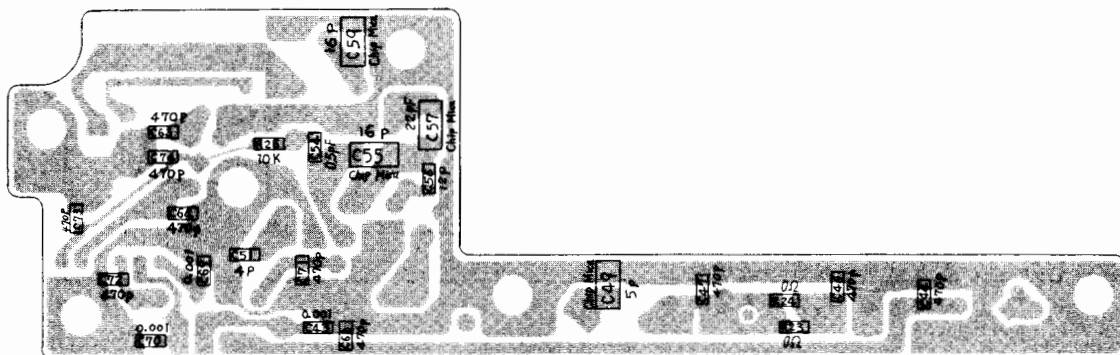


(Solder)

## ■ UHF FINAL PC BOARD



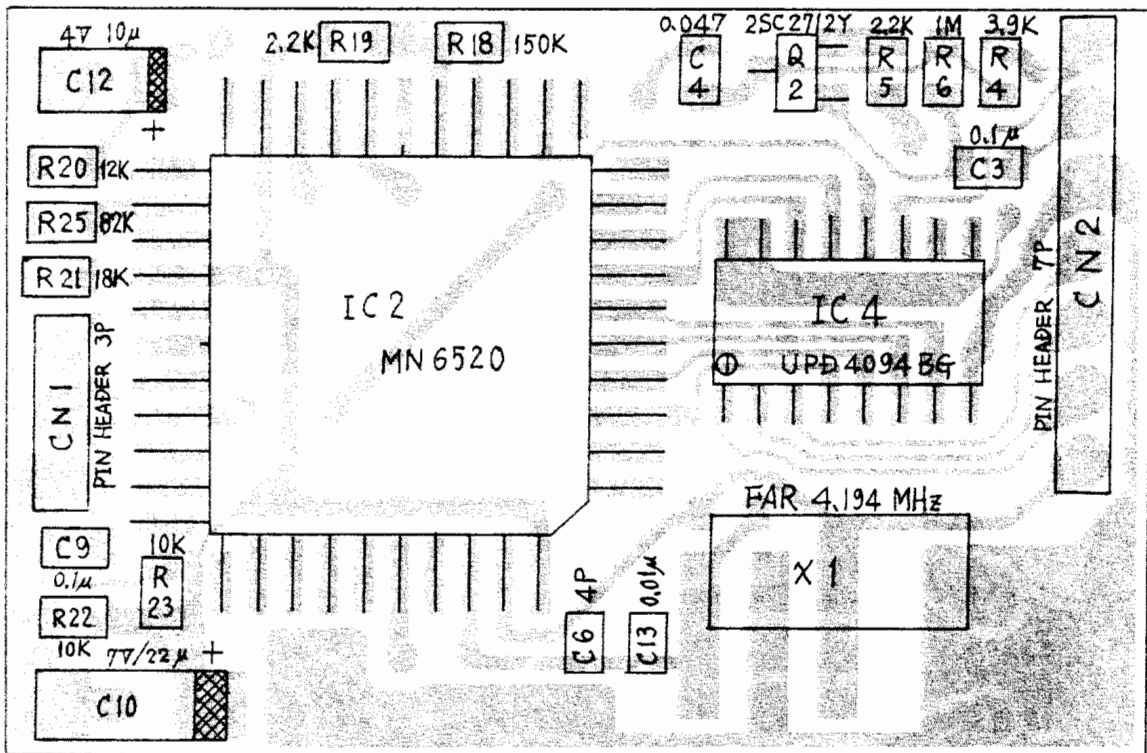
(Part)



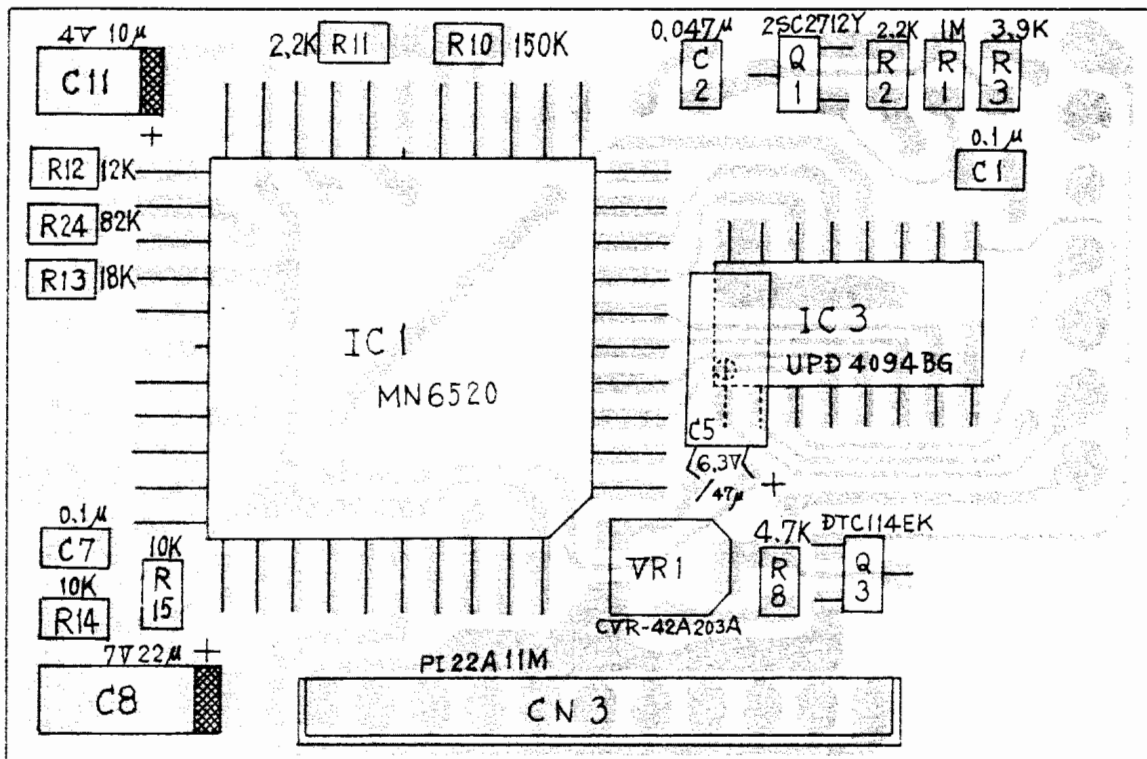
(Solder)



# ■ CTCSS PC BOARD (T only)

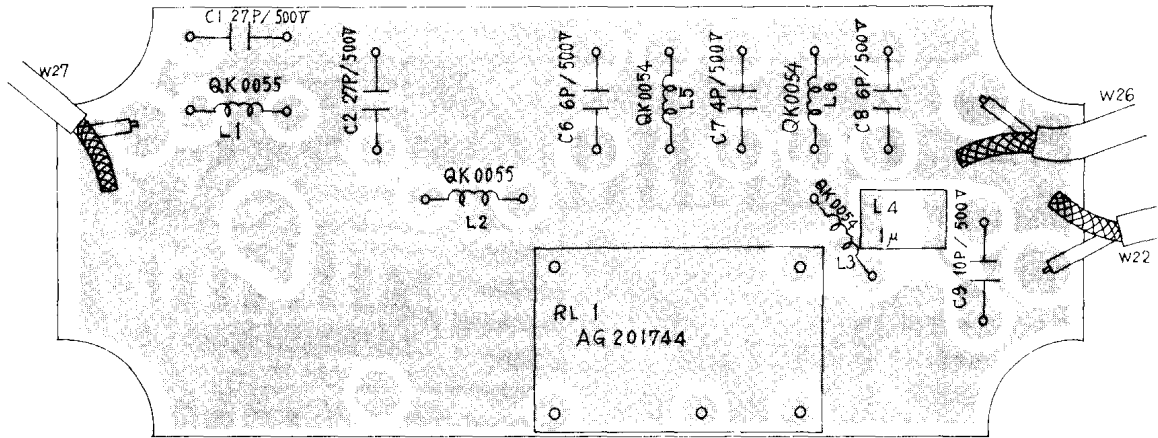


(Main)

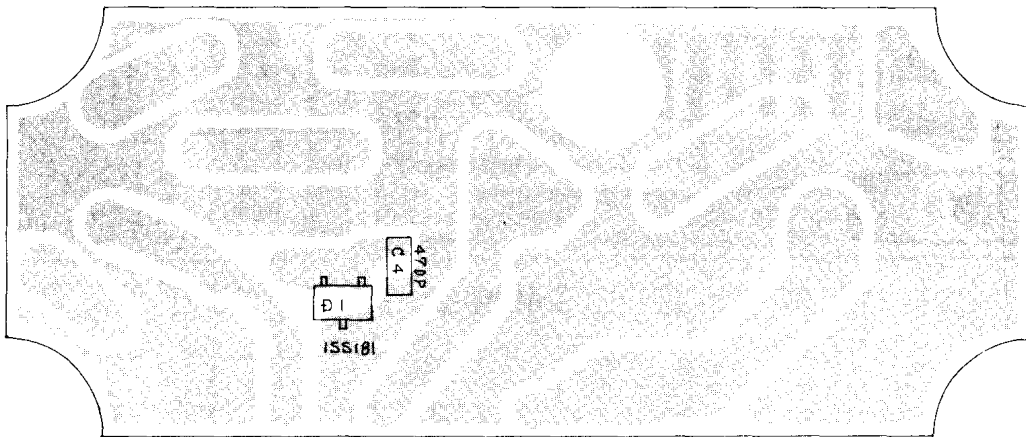


(Sub)

## ■ DUPLEXER PC BOARD



(Part)



(Solder)

## ■ TONE SQUELCH SCHEMATIC DIAGRAM

