



CHELTON

**VCS-40A VHF COMMUNICATION SYSTEM
MAINTENANCE MANUAL**

SECTION 5 – VC-401B VHF COMMUNICATIONS TRANSCEIVER ILLUSTRATED PARTS LISTS

1. General

This section contains parts lists for the VC-401B assembly and for each of its modules. The parts list for each module is accompanied by an assembly drawing that shows the location of each component in the list.

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
MAINTENANCE MANUAL****2. VC-401B (8.33 kHz) Top Assembly Parts List**

Item	Qty	UM	Part	Title	Reference
1	1	EA	400-040548-01	FINAL ASSEMBLY, XCVR VC-401B	
2	1	EA	090-00733-0000	COVER, DUST	
3	1	EA	057-03511-0001	ESD DECAL CAUTION	
4	1	EA	030-01260-0000	DUST COVER, CONN.	
5	RF	RF	100-040589	MPS VC-401B	
6	RF	RF	150-240590	MASTER ROUTING VC-401B	
7	1	EA		S/N TAG VC-401B	
8	1	EA		FCC PART 15 TAG	
9	1	EA		TAMPERPROOF LABEL	

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
MAINTENANCE MANUAL****3. VC-401B (8.33 kHz) Final Assembly Parts List**

Item	Qty	UM	Part	Title	Reference
1	RF	RF	300-040548-01	FINAL ASSEMBLY, VC-401B TRANSCEIVER	
2		EA	200-04210-0000	PARTS LIST, CHASSIS WELD VC-401	
3		EA	300-040463-01	ASSEMBLY, VC-401B H&L INTERCONNECT BOARD	
4		EA	300-040222-01	ASSEMBLY, SYNTHESIZER/RECEIVER BOARD (VC-401B)	
5		EA	300-040458-01	ASSEMBLY, PWR SUPPLY VC-401B	
6		EA	300-040444-01	ASSY, VC-401B POWER AMPLIFIER	
7		EA	300-040452-01	CKT BD ASSY AUDIO BOARD, VC-401B	
8	2	EA	090-00716-0002	STANDOFF HINGED	
9	1	EA	019-02565-0000	INDUCTOR 1.5MH	L14
10	1	EA	123-140593-01	CABLE ASSEMBLY, COAX (VC-401B) 23"	
11	1	EA	123-140593-02	CABLE ASSEMBLY, COAX (VC-401B) 8.4"	
12	1	EA	123-140594-01	CABLE ASSEMBLY, BNC (VC-401B) 23"	
13		EA	124-040526-01	RIBBON CABLE ASSEMBLY (14 POSITION)	
14		EA	124-040527-01	RIBBON CABLE ASSEMBLY (20 POSITION)	
15		EA	124-040528-01	RIBBON CABLE ASSEMBLY (26 POSITION)	
16		EA	124-040529-01	RIBBON CABLE ASSEMBLY (60 POSITION)	
17		EA	047-07760-0001	CONNECTOR MTG BOX ASSY	
18		EA	047-07759-0001	PARTS LIST, CONNECTOR BOX COVER ASSY	
19		EA	047-07996-0001	PARTS LIST, FRAME, L.S.	
20		EA	047-07767-0000	PLATE	
21		EA	047-08004-0010	DUST COVER	
22		EA	075-05054-0002	HEAT SINK VC-401	
23		EA	090-00725-0024	FINGER CNT STRIP	
24	2	EA	MS35649-224B	NUT HEX 4-40	
25	20	EA	MS51957-13	SCREW 4-40 X 1/4 PHP	
26	4	EA	MS51957-3	SCREW 2-56 X 1/4 PHP	
27	7	EA	MS24693-3B	SCREW 4-40 X 5/8 FHP BLK	
28	6	EA	MS24693-C2	SCREW 4-40 X 1/4 FHP	
29	4	EA	MS51957-14	SCREW 4-40 X 5/16 PHP	
30	3	EA	089-07134-0008	SCREW BHP 4-40 X .500	
31	3	EA	089-06159-0004	SCREW FHP 2-56 X 1/4	
32	4	EA	089-07134-0004	SCREW BHP 4-40 X .250	
33	8	EA	089-07134-0005	SCREW BHP 4-40 X .312	
34	4	EA	089-07134-0006	SCREW BHP 4-40 X .375	
35	2	EA	089-08003-0034	WASHER SPLT LK #4	
36	12	EA	089-08502-0000	WASHER SPLIT LK .120	
37	15	EA	089-08507-0006	WASHER FLAT SS .125	

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Item	Qty	UM	Part	Title	Reference
38	2	EA	091-00471-0000	GROMMET NYLON CONT	
39	1	EA	091-00471-0002	GROMMET NYLON CONT	
40	AR	AR	16012-3	LOCTITE ACCELERATOR & BONDER	
41	4	EA	013-00050-0009	BEAD FERRITE	
42	AR	AR	16022-6	SLEEVING SHRINK .187	

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
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Item	Qty	UM	Part	Title	Reference
1	1	EA	108-640222-01	PWB, SYNTHESIZER/RECEIVER BOARD (VC-401B)	
2	7	EA	112-040469-220	BEAD, FERRITE 0603 SMD	B521 B522 B523 6524 B525 B526 B527
3	6	EA	112-014328-01	BEAD, FERRITE, SMALL (SMD)	B528 B529 B530 B531 B532 B533
4	1	EA	210-040136-183	CAPACITOR .018UF 10% 50V LOW DISTORTION 1206	C106
5	3	EA	210-040019-103	CAPACITOR .01 UF 10% 50V X7R 0603	C320 C322 C436
6	12	EA	106-04103-0047	CAPACITOR .01UF 10% 50V X7R 1206	C300 C309 C310 C333 C400 C401 C402 C407 C411 C412 C417 C422
7	2	EA	106-04333-0047	CAPACITOR .033PF 10% 50V X7R 1206	C1 10 C142
8	48	EA	210-040021-104	CAPACITOR 0.1 uF 10% 50V X7R 0805	C100 C101 C122 C123 C125 C126 C127 C128 C129 C134 C135 C136 C137 C143 C144 C145 C147 C148 C149 C151 C153 C155 C326 C329 C330 C331 C332 C342 C447 C448 C449 C450 C452 C453 C458 C465 C466 C467 C506 C507 C508 C509 C513 C515 C517 C525 C528 C543
9	9	EA	106-04104-0047	CAPACITOR 0.1 UF 10% 50V X7R 1206	C102 C108 C109 C152 C154 C156 C328 C440 C468
10	3	EA	096-01186-0024	CAPACITOR 0.1UF 35V 10% CHIP TANT	C120 C177 C519
11	1	EA	210-040018-0R5	CAPACITOR 0.5PF 5% 50V COG 0603	C314
12	9	EA	096-01186-0080	CAPACITOR 1.0uF 35V 20% CHIP TANT	C104 C446 C469 C516 C518 C524 C531 C542 C544
13	1	EA	210-014281 -1R5	CAPACITOR 1.5PF 50V CHIP 1206	C146
14	10	EA	210-040021-103	CAPACITOR 10000PF 10% 50V X7R 0805	C426 C427 C428 C429 C430 C431 C432 C437 C457 C456
15	15	EA	210-040019-102	CAPACITOR 1000PF 10% 50V X7R 0603	C301 C302 C303 C304 C305 C343 C344 C434 C435 C441 C459 C461 C501 C510 C511
16	15	EA	106-04102-0016	CAPACITOR 1000PF 5% 50V NPO 1206	C111 C138 C140 C141 C312 C313 C315 C316 C341 C439 C463 C324 C424 C442 C443
17	4	EA	210-040019-101	CAPACITOR 100PF 10% 50V X7R 0603	C502 C503 C504 C505
18	7	EA	210-040018-100	CAPACITOR 10PF 5% 50V COG 0603	C334 C444 C445 C451 C464 C336 C338
19	1	EA	210-040018-121	CAPACITOR 120PF 5% 50V COG 0603	C319
20	1	EA	210-040018-120	CAPACITOR 12PF 5% 50V COG 0603	C335
21	1	EA	106-04120-0016	CAPACITOR 12PF 5% 50V NPO 1206	C116
22	2	EA	210-040018-150	CAPACITOR 15PF 5% 50V COG 0603	C130 C131
23	2	EA	096-01186-0087	CAPACITOR 15UF 35V 10% CHIP TANT	C529 C533
24	1	EA	210-014281-180	CAPACITOR 18PF 50V CHIP 1206	C117

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Item	Qty	UM	Part	Title	Reference
25	3	EA	210-014281-2R4	CAPACITOR 2.4PF 50V CHIP 1206	C405 C406 C408
26	2	EA	210-040018-221	CAPACITOR 220PF 5% 50V COG 0603	C132 C103
27	3	EA	106-04221-0016	CAPACITOR 220PF 5% 50V NPO 1206	C121 C124 C150
28	4	EA	210-014281-220	CAPACITOR 22PF 50V CHIP 1206	C403 C410 C414 C420
29	6	EA	096-01186-0019	CAPACITOR 22UF 20V 10% CHIP TANT	C133 C433 C438 C514 C521 C540
30	4	EA	210-014281-270	CAPACITOR 27PF 50V CHIP 1206	C415 C416 C418 C419
31	3	EA	210-014281-3R3	CAPACITOR 3.3pF 50V CHIP 1206	C308 C311 C318
32		EA	210-014281-331	CAPACITOR 330PF 50V CHIP 1206	C325
33		EA	210-014281-4R7	CAPACITOR 4.7PF 50V CHIP 1206	C425
34	4	EA	210-040018-471	CAPACITOR 470PF 5% 50V COG 0603	C512 C520 C527 C538
35	1	EA	210-040018-470	CAPACITOR 47PF 5% 50V COG 0603	C306
36	3	EA	106-04470-0016	CAPACITOR 47PF 5% 50V NPO 1206	C413 C421 C340
37	2	EA	210-040018-5R1	CAPACITOR 5.1PF 5% 50V COG 0603	C460 C462
38	1	EA	210-014281-561	CAPACITOR 560PF 5% 50V NPO 1206	C178
39	2	EA	106-04560-0016	CAPACITOR 56PF 5% 50V NPO 1206	C323 C118
40	2	EA	106-04680-0016	CAPACITOR 68PF 5% 50V NPO 1206	C119 C423
41	2	EA	210-040018-8R2	CAPACITOR 8.2PF 5% 50V COG 0603	C337 C339
42	1	EA	210-014281-820	CAPACITOR 82pF 50V CHIP 1206	C112
43	2	EA	201-016418-03	CAPACITOR ADJ 3-10PF SMD	C404 C409
44	1	EA	204-016669-474	CAPACITOR CHIP .47 UF POLY FILM 10%	C105
45	3	EA	TBD-0603C	CAPACITOR TBD 0603	C307 C317 C321
46		EA	TBD-0805C	CAPACITOR TBD 0805	C327
47		EA	106-04334-0047	CAPACITOR, CHIP .33UF 50V Z5U 1206	C532
48	2	EA	019-08273-0002	COIL VAR 150NH 100MHZ SMD	L315 L316
49		EA	129-240504-026	CONNECTOR 26 PIN LATCHING LOW PROFILE RECEPTACLE SMD	P2
50		EA	139-040515-01	CRYSTAL, MONOLITHIC 21.4 MHZ	Y400
51		EA	106-516336-01	DIODE BAS40-04 DUAL SCHOTTKY	CR109
52	4	EA	106-516396-01	DIODE BAV70L DUAL SW SMD	CR104 CR105 CR110 CR411
53	2	EA	106-514278-01	DIODE BAV99 SWITCHING SMD	CR405 CR409
54	2	EA	106-515984-01	DIODE BAW56L DUAL SW SMD	CR107 CR310
55	2	EA	106-617885-01	DIODE HSMP3822 DUAL PIN SMD	CR103 CR106
56	2	EA	106-640536-01	DIODE HSMP3834 DUAL PIN SMD	CR301 CR302
57	2	EA	106-615982-01	DIODE PIN HSMP3823 SMD	CR402 CR403
58	2	EA	106-616444-01	DIODE PIN HSMP3824 (SMD)	CR401 CR404
59	5	EA	106-540031-01	DIODE VARACTOR SMV1207-004 (SOT23)	CR101 CR304 CR305 CR306 CR308

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Item	Qty	UM	Part	Title	Reference
60		SET	139-340525-01	FILTER 21.4 MHZ, 20 KHZ BW (MATCHED SET)	FL401A FL401B FL401C FL401D
61		SET	139-340524-01	FILTER 21.4 MHZ, 7.3 KHZ BW (MATCHED SET)	FL402A FL402B FL402C FL402D FL402E
62		EA	118-240494-01	FREQUENCY MIXER, SMD	MX300
63		EA	106-716617-03	IC, LM317LD ADJ VOLTAGE REG	U106
64	2	EA	120-03115-0007	IC LM317M 3-TERM ADJ. POSITIVE VOLTAGE REGULATOR	U103 U105
65	1	EA	106-716392-03	IC LM358D LOW PWR DUAL OP AMP	U104
66	1	EA	106-740016-01	IC LMX2352 1.2 GHz LOW/PWR DUAL N SYNTH (SMD)	U100
67	2	EA	106-740124-02	IC LOW NOISE HIGH SPEED OP AMP LT10071S8	U101 U305
68	1	EA	106-716327-01	IC MC79M12CDT -12 VOLT REG SMD	U107
69	1	EA	106-716704-02	IC MP7543KS 12 BIT DAC	U304
70	1	EA	106-716446-03	IC NE602AD DBL MIXER W/OSC SMD	U404
71	3	EA	120-03020-0002	IC SL6140 AGC AMP SMD	U401 U402 U403
72	5	EA	106-714804-02	IC TL074 QUAD OP AMP SMD	U303 U405 U406 U407 U501
73	1	EA	118-140033-047	INDUCTOR 47NH 5% 35Q@.65GHZ 0.90OHM 500MA 0603	L104
74	7	EA	118-115978-1R0	INDUCTOR 1.0UH CHIP	L300 L314 L411 L312 L111 L112 L107
75	2	EA	019-02082-0017	INDUCTOR CH 1.5UH 10% MOLDED	L304 L308
76	1	EA	019-02723-0003	INDUCTOR 18NH 20% 450MA 1210	L101
77	1	EA	019-02723-0052	INDUCTOR 220UH 5% 30MA 1210	L100
78	2	EA	019-02723-0044	INDUCTOR 47.0UH 10% 51.7MA 1210	L116 L117
79	1	EA	118-114276-1R5	INDUCTOR CHIP 1.5UH 10%	L306
80	4	EA	118-114276-2R2	INDUCTOR CHIP 2.2UH 10%	L403 L404 L407 L408
81	4	EA	118-114276-220	INDUCTOR CHIP 22UH 10%	L51 8 L519 L520 L521
82	2	EA	118-114276-1R0	INDUCTOR CHIP MOLDED 1.0uH	L406 L409
83	2	EA	118-114276-100	INDUCTOR CHIP MOLDED 10uH	L401 L41 0
84	1	EA	118-114276-4R7	INDUCTOR CHIP MOLDED 4.7uH	L412
85	2	EA	118-117823-02	INDUCTOR FIXED, RIF TOROID 2.0uH	L402 L405
86	4	EA	019-02535-0000	INDUCTOR TUNABLE 105NH	L303 L305 L307 L309
87	6	EA	118-115978-100	INDUCTOR, 10UH CHIP	L106 L108 L109 L110 L115 L313
88	1	EA	118-140134-027	INDUCTOR, AIR COIL, NH 1.5GHZ 1812 SMD	L103
89	1	EA	118-140134-047	INDUCTOR, AIR COIL, NH 1.5GHZ 1812 SMD	L105
90	2	EA	030-00163-0000	JACK STRAIGHT SMB (NICKEL PLATED)	J2 J301
91	1	EA	007-06424-0001	LED, RED SMD	CR108
92	6	EA	234-040024-0000	RESISTOR ZERO OHM 1% 100PPM 1/16W TKF 0603	R331 R443 R444 R447 R452 R453

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Item	Qty	UM	Part	Title	Reference
93	2	EA	234-040024-1004	RESISTOR 1.00M OHM 1% 100PPM 1/16W TKF 0603	R130 R474
94	1	EA	234-040024-1241	RESISTOR 1.24K OHM 1% 100PPM 1/16W TKF 0603	R422
95	1	EA	234-040024-1691	RESISTOR 1.69K OHM 1% 100PPM 1/16W TKF 0603	R408
96	25	EA	234-040024-1002	RESISTOR 10.0K OHM 1% 100PPM 1/16W TKF 0603	R122 R128 R132 R139 R149 R323 R327 R328 R335 R340 R427 R428 R429 R430 R433 R436 R450 R454 R462 R463 R470 R471 R477 R506 R507
97	10	EA	234-040024-1000	RESISTOR 100 OHM 1% 100PPM 1/16W TKF 0603	R119 R334 R417 R434 R445 R446 R457 R458 R465 R466
98	13	EA	139-01000-0000	RESISTOR 100 OHM 1% 100PPM 1/8W 1206	R317 R329 R330 R338 R339 R341 R413 R414 R419 R425 R322 R333 R405
99	8	EA	234-040024-1001	RESISTOR 1.0K OHM 1% 100PPM 1/16W TKF 0603	R103 R104 R123 R126 R127 R421 R508 R509
100	3	EA	234-040024-1003	RESISTOR 100K OHM 1% 100PPM 1/16W TKF 0603	R431 R432 R451
101	1	EA	234-040024-1103	RESISTOR 11 OK OHM I % 100PPM 1/16W TKF 0603	R467
102	2	EA	234-040024-1212	RESISTOR 12.1K OHM 1% 100PPM 1/16W TKF 0603	R150 R473
103	1	EA	234-040024-1372	RESISTOR 13.7K OHM 1 % 100PPM 1/16W TKF 0603	R113
104	1	EA	234-040024-1403	RESISTOR 140K OHM 1% 100PPM 1/16W TKF 0603	R448
105	4	EA	234-040024-1500	RESISTOR 150 OHM 1% 100PPM 1/16WTKF 0603	R111 R134 R155 R158
106		EA	234-040024-1503	RESISTOR 150K OHM 1% 100PPM 1/16W TKF 0603	R476
107		EA	234-040024-2431	RESISTOR 2.43K OHM 1% 100PPM 1/16W TKF 0603	R460
108	3	EA	234-040024-2491	RESISTOR 2.49K OHM 1% 100PPM 1/16W TKF 0603	R400 R402 R423
109	1	EA	234-040024-2741	RESISTOR 2.74K OHM 1% 100PPM 1/16W TKF 0603	R416
110	3	EA	234-040024-2801	RESISTOR 2.80K OHM 1% 100PPM 1/16W TKF 0603	R102 R124 R125
111	5	EA	234-040024-2002	RESISTOR 20.0K OHM 1% 100PPM 1/16W TKF 0603	R426 R440 R442 R469 R472
112	3	EA	234-040024-2000	RESISTOR 200 OHM 1% 100PPM 1/16W TKF 0603	R109 R117 R120
113	2	EA	234-040024-2003	RESISTOR 200K OHM 1% 00PPM 1/16W TKF 0603	R129 R464
114	4	EA	234-040024-2210	RESISTOR 221 OHM 1% 100PPM 1/16W TKF 0603	R146 R147 R160 R161
115	1	EA	139-02210-0000	RESISTOR 221 OHM 1% 100PPM 1/8W 1206	R303
116	3	EA	234-040024-23R2	RESISTOR 23.2 OHM 1% 100PPM 1/16W TKF 0603	R115 R121 R154
117	2	EA	234-040024-23R7	RESISTOR 23.7 OHM 1% 100PPM 1/16W TKF 0603	R148 R159
118	2	EA	234-040024-2430	RESISTOR 243 OHM 1% 100PPM 1/16W TKF 0603	R153 R459
119	2	EA	234-040024-2553	RESISTOR 255K OHM 1% 100PPM 1/16W TKF 0603	R100 R101
120	2	EA	139-02001-0000	RESISTOR 2K OHM 1% 100PPM 1/8W 1206	R301 R306
121	2	EA	234-040024-3011	RESISTOR 3.01K OHM 1% 100PPM 1/16W TKF 0603	R135 R410
122		EA	234-040024-3321	RESISTOR 3.32K OHM 1% 100PPM 1/16W TKF 0603	R324
123		EA	234-040024-3651	RESISTOR 3.65K OHM 1% 100PPM 1/16W TKF 0603	R411

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Item	Qty	UM	Part	Title	Reference
124		EA	234-040024-3010	RESISTOR 301 OHM 1% 100PPM 1/16W TKF 0603	R138
125	2	EA	234-040024-3242	RESISTOR 32.4K OHM 1% 100PPM 1/16W TKF 0603	R107 R108
126		EA	234-040024-3320	RESISTOR 332 OHM 1% 100PPM 1/16W TKF 0603	R151
127		EA	139-03320-0000	RESISTOR 332 OHM 1% 100PPM 1/8W 1206	R300
128		EA	234-040024-3323	RESISTOR 332K OHM 1% 100PPM 1/16W TKF 0603	R441
129		EA	234-040024-3480	RESISTOR 348 OHM 1% 100PPM 1/16W TKF 0603	R136
130		EA	234-040024-3920	RESISTOR 392 OHM 1% 100PPM 1/16W TKF 0603	R424
131		EA	234-040024-4021	RESISTOR 4.02K OHM 1% 100PPM 1/16W TKF 0603	R152
132		EA	234-040024-4641	RESISTOR 4.64K OHM 1% 100PPM 1/16W TKF 0603	R304
133		EA	234-040024-4991	RESISTOR 4.99K OHM 1% 100PPM 1/16W TKF 0603	R437
134		EA	234-040024-4322	RESISTOR 43.2K OHM 1% 100PPM 1/16W TKF 0603	R336
135	4	EA	234-040024-4752	RESISTOR 47.5K OHM 1% 100PPM 1/16W TKF 0603	R308 R315 R318 R319
136	3	EA	234-040024-4750	RESISTOR 475 OHM 1% 100PPM 1/16W TKF 0603	R140 R144 R145
137	3	EA	234-040024-5621	RESISTOR 5.62K OHM 1% 100PPM 1/16W TKF 0603	R162 R302 R305
138	1	EA	234-040024-5110	RESISTOR 511 OHM 1% 100PPM 1/16W TKF 0603	R131
139	5	EA	234-040024-6811	RESISTOR 6.81K OHM 1% 100PPM 1/16W TKF 0603	R415 R418 R420 R455 R456
140	1	EA	234-040024-6490	RESISTOR 649 OHM 1% 100PPM 1/16W TKF 0603	R110
141	3	EA	234-040024-68R1	RESISTOR 68.1 OHM 1% 100PPM 1/16W TKF 0603	RI112 RI118 RI156
142	1	EA	234-040024-6812	RESISTOR 68.1K OHM 1% 100PPM 1/16W TKF 0603	R505
143	4	EA	234-040024-6810	RESISTOR 681 OHM 1% 100PPM 1/16W TKF 0603	R1 R116 R2 R157
144	2	EA	234-040024-8252	RESISTOR 82.5K OHM 1% 100PPM 1/16W TKF 0603	R435 R468
145		EA	234-040024-8250	RESISTOR 825 OHM 1% 100PPM 1/16W TKF 0603	R114
146		EA	234-040024-9091	RESISTOR 9.09K OHM 1% 100PPM 1/16W TKF 0603	R409
147	1	EA	234-040024-9090	RESISTOR 909 OHM 1% 100PPM 1/16W TKF 0603	R137
148	5	EA	TBD-0603R	RESISTOR TBD 0603	R332 R407 R449 R468 R475
149	1	EA	TBD-1206R	RESISTOR TBD 1206	R321
150	2	EA	139-00000-0004	RESISTOR ZERO OHM JUMPER 1206	R337 R438
151	1	EA	234-014791-1210	RESISTOR 121 OHM 1% 1/8W CHIP	R412
152	2	EA	234-014791-1300	RESISTOR 130 OHM 1% 1/8W CHIP	R316 R320
153	4	EA	234-014791-1501	RESISTOR 1500 OHM 1% 1/8W CHIP	R401 R403 R404 R406
154	2	EA	234-014279-270	RESISTOR CHIP 27 OHM 5% 1W SMD	R510 R511
155	2	EA	234-014279-560	RESISTOR CHIP 560 OHM 1W 5%	R512 R513
156		EA	234-040024-3322	RESISTOR 33.2K OHM 1% 100PPM 1/16W TKF 0603	R441
157		EA	008-00096-0001	TERMINAL, TEST POINT	TP400
158		EA	234-018457-02	THERMISTOR 10K OHM 5% NTC SMD	R504
159		EA	106-016337-01	TRANSISTOR BF996 SMD	Q401
160		EA	106-016476-01	TRANSISTOR MJD112 DARLINGTON	Q500

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Item	Qty	UM	Part	Title	Reference
161		EA	233-040075-102	TRIMPOT 5 TURN 1K SMD	R143
162	5	EA	233-040075-503	TRIMPOT 5 TURN 50K SMD	R311 R312 R313 R314 R325
163	1	EA	139-340043-01	TXCO 12.8 MHZ (SMD)	Y100
164	3	EA	019-08176-0000	XFMR IF	T401 T402 T403
165	1	EA	106-015986-01	XSTR BSS123 TMOS SIM	Q300
166	2	EA	007-00815-0000	XSTR FET MMBFU31 0	Q301 Q302
167	2	EA	106-014270-01	XSTR MMBT3904 NPN SMD	Q105 Q106
168	4	EA	106-015980-01	XSTR MRF5711 NPN RIF SMD	Q101 Q102 Q103 Q107
169		EA	007-00542-0000	XSTR PNP MMBTA64L	Q104
170		EA	146-040487-02	SHIELD FENCE, 1.745" X 1.230"	
171	2	EA	146-040487-05	SHIELD FENCE, 1.960" X 1.240"	
172		EA	146-040487-04	SHIELD FENCE, 2.430" X 1.895"	
173		EA	146-040487-01	SHIELD FENCE, 3.420" X.985"	
174	2	EA	146-040488-01	SHIELD FENCE, VC-401 RECEIVER	
175	1	EA	146-040487-03	SHIELD FENCE, 1.515" X .595"	
176	2	EA	096-01186-0047	CAPACITOR 4.7uF 35V 20% CHIP TANT	C454 C455
177	2	EA	146-040600-01	SHIELD LID, 1.960" X 1.240"	
178	2	EA	146-040603-01	SHIELD LID, 3.000" X 5.000"	
179	1	EA	146-040596-02	SHIELD LID, PERFORATED 3.420" X .985"	
180		EA	146-040597-02	SHIELD LID, PERFORATED 1.745" X 1.230"	
181		EA	146-040598-01	SHIELD LID, 1.515" X .595"	
182		EA	146-040599-01	SHIELD LID, 2.430" X 1.895"	



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Insert 11 x 17 Receiver/Synthesizer Module Parts Locator here.

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
MAINTENANCE MANUAL****5. VC-401B (8.33 kHz) Audio /CPU Module Parts List**

Item	Qty	UM	Part	Title	Reference
1	1	EA	108-640452-01	PWB, AUDIO/PROCESSOR MODULE (VC-401B)	
2	2	EA	112-014328-01	BEAD, FERRITE, SMALL (SMD)	B32 B33
3	16	EA	112-040469-220	BEAD, FERRITE 0603 SMD	B16 B18 B200 B21 B22 B23 B24 B25 B26 B27 B28 B29 B30 B300 B31 B34
4	1	EA	210-040019-123	CAP. 012UF 10% 50V X7R 0603	C219
5	9	EA	210-040019-103	CAP .01 UF 10% 50V X7R 0603	C119 C120 C121 C124 C127 C136 C137 C218 C220
6	6	EA	106-04224-0047	CAP .22UF 10% 50V X7R 1206	C307 C310 C318 C319 C327 C345
7	40	EA	210-040021-104	CAP 0. 1 uF 10% 50V X7R 0805	C2 C5 C8 C9 C10 C100 C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 C112 C113 C114 C122 C125 C128 C221 C222 C224 C225 C226 C227 C311 C315 C316 C321 C322 C329 C330 C342 C343 C351 C352 C306
8	6	EA	106-04104-0047	CAP 0. 1 UF 10% 50V X7R 1206	C123 C126 C129 C134 C135 C200
9	1	EA	096-01186-0024	CAP 0.1 UF 35V 10% CHIP TANT	C201
10	2	EA	096-01186-0080	CAP 1.0uF 35V 20% CHIP TANT	C133 C210
11	28	EA	210-040019-102	CAP 1000 PF 10% 50V X7R 0603	C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C334 C34 C341 C40 C35 C41 C42 C43 C44 C45
12	7	EA	210-040018-101	CAP 100PF 5% 50V COG 0603	C31 C32 C33 C36 C37 C38 C39
13	3	EA	097-00214-0020	CAP 150uF 35V 20% AL 10 X 125	C130 C131 C132
14	5	EA	096-01186-0030	CAP 1 UF 35V 10% CHIP TANT	C212 C216 C300 C301 C333
15	1	EA	210-040019-221	CAP 220PF 10% 50V X7R 0603	C304
16	1	EA	096-01186-0019	CAP 22UF 20V 10% CHIP TANT	C139
17	2	EA	210-040018-270	CAP 27PF 5% 50V COG 0603	C117 C118
18	1	EA	210-040019-331	CAP 330PF 10% 50V X7R 0603	C346
19	3	EA	210-040018-471	CAP 470PF 5% 50V COG 0603	C1 C4 C7
20	1	EA	210-040019-562	CAP 560OPF 10% 50V X7R 0603	C223
21	2	EA	210-040019-561	CAP 560PF 10% 50V X7R 0603	C204 C211
22	4	EA	210-040018-560	CAP 56PF 5% 50V COG 0603	C317 C326 C350 C349
23	2	EA	096-01186-0085	CAP 6.8UF 35V 20% CHIP TANT	C303 C305
24	3	EA	210-040021-683	CAP .068UF 10% 50V X7R 0805	C308 C309 C344
25	4	EA	210-040019-682	CAP 680OPF 10% 50V X7R 0603	C202 C213 C214 C215

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Item	Qty	UM	Part	Title	Reference
26	1	EA	210-040018-680	CAP 68PF 5% 50V COG 0603	C217
27	1	EA	196-016261-227	CAP ALUM 220UF 35V MINATU	C111
28	2	EA	106-04334-0047	CAP, CHIP.33UF 50V Z5U 1206	C302 C348
29	1	EA	129-240504-026	CONN 26 PIN LATCHING LOW PROFILE RECEPTACLE SMD	P2
30	1	EA	129-240504-060	CONN 60 PIN LATCHING LOW PROFILE RECEPTACLE SMD	P1
31	1	EA	139-040330-01	CRYSTAL 16.0000 MHZ (SMD)	Y1
32	1	EA	106-516336-01	DIODE BAS40-04 DUAL SHOTTKY	CR100
33	1	EA	106-516396-01	DIODE BAV70L DUAL SW SMD	CR202
34	17	EA	106-514278-01	DIODE BAV99 SWITCHING SMD	CR1 CR101 CR102 CR103 CR104 CR105 CR106 CR107 CR108 CR109 CR110 CR111 CR112 CR113 CR114 CR2 CR201
35	2	EA	106-515984-01	DIODE BAW56L DUAL SW SMD	CR203 CR300
36	1	EA	129-2060-006	HEADER, STRAIGHT 6 PIN	P3
37	1	EA	129-2060-008	HEADER, STRAIGHT 8 PIN	P4
38	1	EA	106-740053-02	I.C. AT89S8252 8-BIT COMPUTER	U101
39	2	EA	106-716617-03	I.C., LM317LD ADJ VOLTAGE REG	U1 U109
40	3	EA	106-714803-02	IC DG201 A QUAD ANALOG SW SMD	U300 U304 U309
41	1	EA	129-740507-02	IC DS1706L MICRO MONITOR SMD	U102
42	1	EA	106-740334-02	IC HI-8282 ARINC XCVR (44 PLCC)	U103
43	1	EA	106-740333-02	IC HI-8585 ARINC 429 LINE DRIVER (SOIC-8)	U104
44	2	EA	120-03115-0007	IC LM317M 3-TERM ADJ. POSITIVE VOLTAGE REGULATOR	U106 U108
45	1	EA	106-718204-01	IC LM337LM ADJ VOLTAGE REG	U107
46	1	EA	106-716744-04	IC MC1488D QUAD LINE DRIVER	U111
47	1	EA	106-716743-04	IC MC1489D QUAD LINE RECEIVER	U110
48	1	EA	106-718379-02	IC NE570D COMPANDER SMD	U301
49	4	EA	106-714804-02	IC TL074 QUAD OP AMP SMD	U202 U204 U308 U310
50	1	RF	106-740460-02	IC, XC95108 CPLD SMD	U105
51	1	EA	106-740505-02	IC, LTC1069-6, LOW PASS FILTER, SMD	U303
52	1	EA	106-740506-02	IC, MC1450413D, HEX LEVEL SHIFTER SMD	U100
53	3	EA	118-114276-220	INDUCTOR CHIP 22UH 10%	L1 L2 L3
54	1	EA	234-040024-0000	RES ZERO OHM 1 % 100PPM 1/16W TKF 0603	R147
55	2	EA	234-040024-1004	RES 1.00M OHM 1% 100PPM 1/16W TKF 0603	R213 R226
56	1	EA	234-040024-1241	RES 1.24K OHM 1 % 100PPM 1/1 6W TKF 0603	R217
57	10	EA	234-040024-1002	RES 10.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R156 R162 R203 R207 R208 R227 R228 R309 R310 R325

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Item	Qty	UM	Part	Title	Reference
58	2	EA	234-040024-1000	RES 100 OHM 1 % 100PPM 1/1 6W TKF 0603	R145 R222
59	3	EA	234-040024-1001	RES 1.0K OHM 1% 100PPM 1/16W TKF 0603	R233 R234 R307
60	7	EA	234-040024-1003	RES 100K OHM 1 % 100PPM 1/1 6W TKF 0603	R1 R2 R119 R120 R3 R4 R300
61	1	EA	234-040024-1213	RES 121K OHM 1 % 100PPM 1/1 6W TKF 0603	R230
62	16	EA	234-040024-1822	RES 18.2K OHM 1 % 100PPM 1/1 6W TKF 0603	R137 R138 R139 R140 R141 R142 R143 R144 R12 R113 R114 R115 R116 R117 R118
63	3	EA	234-040024-2212	RES 22.1K OHM 1 % 100PPM 1/1 6W TKF 0603	R311 R312 R327
64	2	EA	234-040024-2211	RES 2.21K OHM 1 % 100PPM 1/1 6W TKF 0603	R229 R337
65	1	EA	234-040024-2742	RES 27.4K OHM 1 % 100PPM 1/1 6W TKF0603	R305
66	2	EA	234-040024-3010	RES 301 OHM 1% 100PPM 1/16W TKF 0603	R158 R159
67	4	EA	234-040024-3011	RES 3.01K OHM 1 % 100PPM 1/1 6W TKF 0603	R148 R150 R9 R221
68	16	EA	234-040024-3322	RES 33.2K OHM 1 % 100PPM 1/1 6W TKF 0603	R107 R108 R109 R110 R111 R112 R129 R130 R131 R132 R133 R134 R135 R136 R301 R302
69	3	EA	234-040024-3321	RES 3.32K OHM 1 % 100PPM 1/1 6W TKF 0603	R211 R214 R216
70	3	EA	234-040024-3480	RES 348 OHM 1% 100PPM 1/16W TKF 0603	R151 R149 R5
71	1	EA	234-040024-4421	RES 4.42K OHM 1 % 100PPM 1/1 6W TKF 0603	R304
72	2	EA	234-040024-4122	RES 41.2K OHM 1 % 100PPM 1/1 6W 0603	R306 R350
73	1	EA	234-040024-4752	RES 47.5K OHM 1 % 100PPM 1/1 6W TKF 0603	R202
74	19	EA	234-040024-4751	RES 4.75K OHM 1 % 100PPM 1/1 6W TKF 0603	R10 R101 R102 R103 R104 R105 R106 R121 R122 R123 R124 R125 R126 R127 R128 R11 R219 R6 R7
75	3	EA	234-040024-4753	RES 475K OHM 1 % 100PPM 1/1 6W TKF 0603	R220 R231 R232
76	2	EA	234-040024-5112	RES 51.1K OHM 1 % 100PPM 1/1 6W TKF 0603	R212 R225
77	1	EA	234-040024-5111	RES 5.11K OHM 1 % 100PPM 1/1 6W TKF 0603	R204
78	1	EA	234-040024-5622	RES 56.2K OHM 1 % 100PPM 1/1 6W TKF 0603	R303
79	1	EA	234-040024-7321	RES 7.32K OHM 1% 100PPM 1/16W TKF 0603	R218
80	2	EA	234-040024-6812	RES 68.1K OHM 1 % 100PPM 1/1 6W TKF 0603	R314 R329
81	2	EA	234-040024-6811	RES 6.81K OHM 1 % 100PPM 1/1 6W TKF 0603	R313 R338
82	1	EA	234-040024-7502	RES 75.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R205
83	1	EA	234-040024-8662	RES 86.6K OHM 1 % 100PPM 1/1 6W 0603	R161
84	2	EA	234-040024-9090	RES 909 OHM 1% 100PPM 1/16W TKF 0603	R157 R160
85	1	EA	234-040024-9093	RES 909K OHM 1% 100PPM 1/16W TKF 0603	R146
86	1	EA	234-014279-471	RESISTOR CHIP 470 OHM 1W 5%	R201
87	6	EA	234-014279-820	RESISTOR CHIP 82 OHM 1W 5%	R315 R318 R330 R333 R339 R342

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Item	Qty	UM	Part	Title	Reference
88	2	EA	233-040075-104	TRIMPOT 5 TURN 100K SMD	R308 R324
89	6	EA	233-040075-103	TRIMPOT 5 TURN 10K SMD	R206 R210 R215 R223 R321 R336
90	8	EA	234-040107-14	VARISTOR 14V 430PF VOLT SUP 0805	RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8
91	4	EA	118-215553-01	XFMR L-8380	T200 T300 T301 T302
92	6	EA	007-00383-0004	XSTR 2N2222A	Q200 Q201 Q202 Q302 Q306 Q308
93	3	EA	007-00261-0003	XSTR 2N2907A PNP 60V	Q303 Q307 Q309
94	1	EA	146-040487-06	SHIELD FENCE, 3.22" X 2.65"	
95	AR	AR	16005-1	SILICONE, WHITE GLUE & SEAL	
96	1	EA	234-040024-1472	RES 14.7K OHM 1 % 100PPM 1/1 6W TKF 0603	R348
97	1	EA	234-040024-2002	RES 20.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R303
98	1	EA	234-040024-2551	RES 2.55K OHM 1 % 100PPM 1/1 6W TKF 0603	R224
99	1	EA	234-040024-8251	RES 8.25K OHM 1 % 100PPM 1/1 6W TKF 0603	R347



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Insert 11 x 17 Audio /CPU Module Parts Locator here.

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
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Item	Qty	UM	Part	Title	Reference
1	1	EA	108-640444-01	PWB, POWER AMPLIFIER (VC-401B)	
2	10	EA	112-014328-01	BEAD, FERRITE, SMALL (SMD)	B1 B2 B3 B304 B305 B306 B307 B309 B310 B311
3	19	EA	210-040019-183	CAP .018μF 10% 50V X7R 0603	C104 C113 C114 C13 C136 C145 C19 C20 C24 C305 C314 C327 C329 C330 C337 C338 C347 C356 C357
4	1	EA	210-014332-103	CAP .01 μF 50V CHIP 1206	C39
5	3	EA	106-04224-0047	CAP .22μF 10% 50V X7R 1206	C12 C27 C3
6	15	EA	210-040021-104	CAP 0.1μF 10% 50V X7R 0805	C138 C142 C300 C307 C355 C43 C47 C72 C87 C92 C93 C94 C96 C98 C99
7	3	EA	210-014332-104	CAP 0.1μF 50V CHIP 1206	C21 C4 C91
8	1	EA	210-014332-684	CAP 0.68μF 50V CHIP 1206	C18
9	10	EA	096-01186-0080	CAP 1.0μF 35V 20% CHIP TANT	C2 C301 C304 C306 C313 C339 C40 C42 C44 C55
10	13	EA	210-040019-102	CAP 1000pF 10% 50V X7R 0603	C103 C133 C144 C156 C32 C34 C38 C60 C69 C77 C8 C82 C85
11	2	EA	210-040020-102	CAP 1000pF 5% 50V COG 0805	C132 C155
12	6	EA	210-040018-101	CAP 100pF 5% 50V COG 0603	C22 C331 C334 C336 C51 C78
13	1	EA	210-040019-152	CAP 1500pF 10% 50V X7R 0603	C33
14	1	EA	210-014281-2R7	CAP 2.7pF 50V CHIP 1206	C64
15	1	EA	210-040018-221	CAP 220pF 5% 50V COG 0603	C107
16	2	EA	210-014281-3R3	CAP 3.3pF 50V CHIP 1206	C15 C35
17	1	EA	210-040021-333	CAP 33000pF 10% 50V X7R 0805	C16
18	1	EA	210-040018-331	CAP 330pF 5% 50V COG 0603	C83
19	3	EA	210-040018-471	CAP 470pF 5% 50V COG 0603	C123 C130 C137
20	1	EA	210-040018-510	CAP 51 pF 5% 50V COG 0603	C23
21	1	EA	210-040019-561	CAP 560pF 10% 50V X7R 0603	C41
22	1	EA	210-1629-650	CAP 6.2pF 500V +/- .25pF SMD	C1
23	1	EA	210-014281-6R2	CAP 6.2pF 50V CHIP 1206	C36
24	2	EA	096-01186-0085	CAP 6.8μF 35V 20% CHIP TANT	C10 C48
25	1	EA	210-040019-681	CAP 680pF 10% 50V X7R 0603	C75
26	5	EA	210-1681-220	CAP 680pF 100V 5% SMD	C26 C28 C29 C5 C6
27	2	EA	201-016418-03	CAP ADJ 3-10pF SMD	C45 C86
28	1	EA	097-00095-0023	CAP EL 3300μF 50V	C359
29	5	EA	210-1102-210	CAP PORCELAIN 1000pF 50V 5%	C134 C135 C140 C25 C7

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Item	Qty	UM	Part	Title	Reference
30	1	EA	210-1120-250	CAP PORCELAIN 12pF 500V 5	C153
31	1	EA	210-1180-250	CAP PORCELAIN 18pF 500V 5%	C122
32	2	EA	210-1279-650	CAP PORCELAIN 2.7pF 500V +/-25pF	C358 C9
33	1	EA	210-1220-250	CAP PORCELAIN 22pF 500V 5%	C124
34	2	EA	210-1330-250	CAP PORCELAIN 33pF 500V 5%	C102 C152
35	1	EA	210-1471-230	CAP PORCELAIN 470pF 200V	C46
36	2	EA	210-1470-250	CAP PORCELAIN 47pF 500V	C14 C193
37	1	EA	210-1680-250	CAP PORCELAIN 68pF 500V 5%	C146
38	3	EA	118-118066-6R8	CHOKE 6.8 μ H SMD	L113 L115 L116
39	1	EA	123-040514-01	COAXIAL COUPLER 50 OHM	DC1
40	1	EA	118-116596-01	COIL, AIR., 135 ID 1T 18 AWG	L2
41	1	EA	118-116596-02	COIL, AIR., 135 ID 2T 18 AWG	L7
42	1	EA	118-116596-03	COIL, AIR., 135 ID 3T 18 AWG	L23
43	1	EA	118-116595-03	COIL, AIR., 160 ID 3T 18 AWG	L4
44	1	EA	118-116593-09	COIL, AIR., 250 ID 9T 18 AWG	L3
45	1	EA	129-240519-14	CONNECTOR, LOW PROFILE HEADER SERIES 14-PIN (STRAIGHT)	J2
46	1	EA	106-516396-01	DIODE BAV70L DUAL SW SMD	CR8
47	1	EA	106-514278-01	DIODE BAV99 SWITCHING SMD	CR3
48	1	EA	106-515984-01	DIODE BAW56L DUAL SW SMD	CR7
49	2	EA	106-518382-01	DIODE HSMP-3802 DUAL SERIES PI	CR5 CR6
50	2	EA	106-515788-01	DIODE HSMS-2800 SHOTTKY SMD	CR100 CR115
51	3	EA	106-618031-01	DIODE PIN MA4P7001 F	CR113 CR114 CR122
52	1	EA	120-03115-0007	IC LM317M 3-TERM ADJ. POSITIVE VOLTAGE REGULATOR	U301
53	1	EA	106-718212-02	IC LT1256CS VIDEO FADER 40MHZ	U6
53	1	EA	118-140033-047	IND 47NH 5% 35Q@.65GHZ 0.90OHM 500MA 0603	L19
54	1	EA	106-716327-01	IC MC79M1 2CDT -12 VOLT REG SMD	U302
55	3	EA	106-714804-03	IC TL074CD QUAD OP AMP SMD	U1 U300 U5
57	2	EA	118-115978-033	INDUCTOR.033 μ H CHIP	L1 L9
58	3	EA	118-115978-1R0	INDUCTOR 1.0 μ H CHIP	L18 L20 L6
59	2	EA	019-02723-0003	INDUCTOR 18NH 20% 450MA 1210	L22 L24
60	2	EA	118-140032-28R0	INDUCTOR 28.0 μ H 2% 1.8 GHz 8 TURNS	L111 L114
61	1	EA	019-02723-0009	INDUCTOR 56NH 20% 340MA 1210	L8
62	1	EA	118-140032-17R5	INDUCTOR, 17.5NH 2% 1.8 GHz	L112
63	1	EA	118-116819-03R5	INDUCTOR, 160 ID 3.5 TURNS 18GA	L5
64	3	EA	030-00163-0000	JACK STRAIGHT SMB (NICKEL PLATED)	J1 J3 J4
65	1	EA	007-06424-0001	LED, RED SMD	CR2

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Item	Qty	UM	Part	Title	Reference
66	17	EA	234-040024-1002	RES 10.0K OHM 1 % 100PPM 1/16W TKF 0603	R111 R125 R126 R131 R144 R146 R17 R18 R19 R3 R305 R31 R31 0 R314 R316 R7 R83
67	2	EA	234-040024-1000	RES 100 OHM 1 % 100PPM 1/1 6W TKF 0603	R23 R80
68	7	EA	234-040024-1001	RES 1.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R11 R2 R315 R43 R6 R88 R96
69	7	EA	234-040024-1003	RES 100K OHM 1 % 100PPM 1/1 6W TKF 0603	R28 R313 R44 R47 R48 R8 R82
70	1	EA	234-040024-1302	RES 13.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R46
71	2	EA	234-040024-1501	RES 1500 OHM 1% 100PPM 1/16W TKF 0603	R92 R95
72	1	EA	234-040024-1692	RES 16.9K OHM 1% 100PPM 1/1 6W TKF 0603	R25
73	1	EA	234-040024-1691	RES 1.69K OHM 1% 100PPM 1/1 6W TKF 0603	R302
74	1	EA	234-040024-1780	RES 178 OHM 1% 100PPM 1/16W TKF 0603	R301
75	1	EA	234-040024-2551	RES 2.55K OHM 1 % 100PPM 1/1 6W TKF 0603	R84
76	1	EA	234-040024-2002	RES 20.0K OHM 1 % 100PPM 1/1 6W TKF 0603	R42
77	1	EA	234-040024-2213	RES 221K OHM 1 % 100PPM 1/1 6W TKF 0603	R16
78	1	EA	234-040024-2431	RES 2.43K OHM 1 % 100PPM 1/1 6W TKF 0603	R306
79	4	EA	234-040024-2552	RES 25.5K OHM 1 % 100PPM 1/1 6W TKF 0603	R26 R319 R59 R68
80	2	EA	234-040024-3011	RES 3.01K OHM 1 % 100PPM 1/1 6W TKF 0603	R61 R65
81	1	EA	234-040024-3013	RES 301K OHM 1 % 100PPM 1/1 6W TKF 0603	R312
82	1	EA	139-03320-0000	RES 332 OHM 1 % 100PPM 1/8W 1206	R115
83	1	EA	234-040024-4021	RES 4.02K OHM 1 % 100PPM 1/1 6W TKF 0603	R81
84	1	EA	234-040024-4321	RES 4320 OHM 1 % 100PPM 1/1 6W TKF 0603	R9
85	1	EA	234-040024-4752	RES 47.5K OHM 1 % 100PPM 1/1 6W TKF 0603	R147
86	1	EA	234-040024-4751	RES 4.75K OHM 1 % 100PPM 1/1 6W TKF 0603	R4
87	2	EA	234-040024-4993	RES 499K OHM 1 % 100PPM 1/1 6W TKF 0603	R27 R87
88	1	EA	234-040024-51R1	RES 51.1 OHM 1 % 100PPM 1/1 6W TKF 0603	R114
89	2	EA	234-040024-5111	RES 5.11K OHM 1 % 100PPM 1/1 6W TKF 0603	R15 R67
90	1	EA	234-040024-5622	RES 56.2K OHM 1 % 100PPM 1/1 6W TKF 0603	R60
91	1	EA	234-040024-6191	RES 6190 OHM 1 % 100PPM 1/1 6W TKF 0603	R311
92	1	EA	234-040024-6811	RES 6.81K OHM 1 % 100PPM 1/1 6W TKF 0603	R22
93	1	EA	234-040024-8871	RES 8.87K OHM 1 % 100PPM 1/1 6W	R14
94	1	EA	234-040024-8252	RES 82.5K OHM 1 % 100PPM 1/1 6W TKF 0603	R29
95	1	EA	130-05152-0053	RES CH 1.5K OHM 5%	R127
96	1	EA	130-09006-3101	RES CH 1.0 OHM 5% 1W	R120
97	1	EA	234-014791-1301	RESISTOR 1.30K OHM 1% 1/8W CHIP	R13
98	2	EA	234-014791-1500	RESISTOR 1.50 OHM 1% 1/8W CHIP	R100 R99
99	2	EA	234-014791-IOR O	RESISTOR 10 OHM 1% 1/8W CHIP	R10 R69
100	1	EA	234-014791-1000	RESISTOR 100 OHM 1% 1/8W CHIP	R37

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Item	Qty	UM	Part	Title	Reference
101	2	EA	234-014791-1001	RESISTOR 1000 OHM 1% 1/8W CHIP	R79 R86
102	1	EA	234-014791-2001	RESISTOR 2.0K OHM 1% 1/8W CHIP	R12
103	1	EA	234-014791-2210	RESISTOR 221 OHM 1% 1/8W CHIP	R21
104	1	EA	234-014791-3321	RESISTOR 3.32K OHM 1% 1/8W CHIP	R50
105	1	EA	234-014791-3R40	RESISTOR 3.40 OHM 1% 1/8W CHIP	R24
106	4	EA	234-014791-3651	RESISTOR 3.65K OHM 1% 1/8W CHIP	R107 R132 R145 R77
107	1	EA	234-014791-3010	RESISTOR 301 OHM 1% 1/8W CHIP	R35
108	1	EA	234-014791-3320	RESISTOR 332 OHM 1% 1/8W CHIP	R39
109	1	EA	234-014791-4750	RESISTOR 475 OHM 1% 1/8W CHIP	R66
110	1	EA	234-014791-5621	RESISTOR 5.62K OHM 1% 1/8W CHIP	R116
111	1	EA	234-014791-56R2	RESISTOR 56.2 OHM 1% 1/8W CHIP	R117
112	2	EA	234-014791-5620	RESISTOR 562 OHM 1% 1/8W CHIP	R62 R93
113	1	EA	234-016467-621	RESISTOR 620 OHM 1/2W 5% CHIP	R124
114	2	EA	234-014791-7R50	RESISTOR 7.50 OHM 1% 1/8W CHIP	R49 R76
115	1	EA	234-014791-1002	RESISTOR CHIP 1 OK OHM 1% 1/8W	R133
116	6	EA	234-014279-241	RESISTOR CHIP 240 OHM 1W 5%	R119 R30 R33 R36 R38 R57
117	1	EA	234-018457-01	THERMISTOR 100K OHM 5% NTC SMD	R89
118	3	EA	233-018201-502	TRIMPOT 5K SMT	R1 R5 R72
119	2	EA	118-218361-02	XFMR COAXIAL BALUN	T1 T4
120	1	EA	118-217940-02	XFMR COAXIAL LS LH	T10
121	1	EA	118-217940-04	XFMR COAXIAL LS LH	T6
122	1	EA	118-218277-02	XFMR COAXIAL LS RN	T9
123	1	EA	118-218277-04	XFMR LS FIN	T5
124	1	EA	106-016366-01	XSTR MRF-177 MOS RF	Q1
125	2	EA	106-015986-01	XSTR BSS123 TMOS SM	Q2 Q317
126	9	EA	106-014270-01	XSTR MMBT3904 NPN SMD	Q100 Q102 Q107 Q113 Q123 Q15 Q302 Q311
127	2	EA	106-016564-01	XSTR MMBT6427L NPN SMD	Q303 Q307
128	1	EA	106-016264-01	XSTR MRF-134 N-CH 5W	Q5
129	2	EA	106-017948-01	XSTR MRF8372	Q17 Q4
130	5	EA	106-014814-01	XSTR, SMD PNP	Q108 Q1 12 Q122 Q124 Q3
131	4	EA	MS51957-13	SCREW 4-40 X 1/4 PHP	
132	10	EA	MS51957-14	SCREW 4-40 X 5/16 PHP	
133	1	EA	146-040487-07	SHIELD, FENCE 3" X 5"	
134	1	EA	146-040571-01	SHIELD, PA FILTER (VC-401B)	
135	AR	AR	16005-1	SILICONE, WHITE GLUE & SEAL	
136	14	EA	MS35338-135	WASHER SPLITLOCK #4	
136	1	EA	146-040461-01	HEATSINK, TRANSMITTER VC-401B	
137	AR	AR	16037-00	THERMAL COMPOUND	



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Insert 11 x 17 Transmitter/Power Amplifier Module Parts Locator here.

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
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Item	Qty	UM	Part	Title	Reference
1	1	EA	108-640458-01	PWB, POWER SUPPLY VC-401B	
2	1	EA	112-040469-220	BEAD, FERRITE 0603 SMD	B1
3	4	EA	106-04103-0047	CAP .01 μ F 10% 50V X7R 1206	C101 C102 C143 C153
4	1	EA	106-04102-0016	CAP 1000pF 5% 50V NPO 1206	C104
5	1	EA	106-04182-0016	CAP 1800pF 5% 50V NPO 1206	C139
6	4	EA	195-040472-226	CAP 22 μ F 35V CHIP TANT, LOW ESR	C146 C147 C148 C149
7	1	EA	106-04222-0047	CAP 2200pF 10% 50V X7R 1206	C100
8	2	EA	196-040478-331	CAP 330 μ F 20% 100V ALUM RADIAL	C103 C105
9	12	EA	106-04471-0016	CAP 470pF 5% 50V NPO 1206	C133 C134 C135 C136 C137 C140 C141 C144 C145 C150 C151 C152
10	1	EA	096-01186-0085	CAP 6.8 μ F 35V 20% CHIP TANT	C132
11	1	EA	210-014281-820	CAP 82pF 50V CHIP 1206	C138
12	6	EA	198-040477-105	CAP, CHIP, MLC, 50 VDC 1 μ F SMD	C107 C109 C110 C111 C112 C113
13	1	EA	129-240519-20	CONNECTOR, LOW PROFILE HEADER SERIES 20- PIN (STRAIGHT)	J1
14	1	EA	129-240519-14	CONNECTOR, LOW PROFILE HEADER SERIES 14- PIN (STRAIGHT)	J2
15	1	EA	106-516396-01	DIODE BAV70L DUAL SW SMD	CR117
16	2	EA	106-514278-01	DIODE BAV99 SWITCHING SMD	CR100 CR103
17	1	EA	106-516766-200	DIODE MBR20200CT DUAL SCHOTTKY	CR110
18	2	EA	106-540471-01	DIODE MBRS1100 SHTKY 1A 100V SMD	CR106 CR107
19	4	EA	106-514986-01	DIODE MURD620CT DUAL 200V SMD	CR108 CR109 CR111 CR112
20	2	EA	106-440482-070	DIODE, ZENER TRANSORB, ISMB70AT3 SMD	CR101 CR105
21	1	EA	106-440482-085	DIODE, ZENER TRANSORB, ISMB85AT3 SMD	CR1 13
22	1	EA	106-440483-036	DIODE, ZENER, 36V MMBZ5258BL	CR114
23	2	EA	106-440483-8R2	DIODE, ZENER, 8.2V MMBZ5237BL SMD	CR102 CR104
24	1	EA	120-03126-0005	IC LM317LM ADJ VOLT REG 100MA	U113
25	1	EA	106-740480-01	IC, SWITCH MODE CONT., UC2825DW	U105
26	1	EA	118-140500-01	INDUCTOR, COUPLED VC-401B POWER SUPPLY	L100
27	1	EA	139-01821-0000	RES 1.82K OHM 1 % 100PPM 1/8W 1206	R125
28	3	EA	139-01003-0000	RES 1 00K OHM 1 % 100PPM 1/8W 1206	R127 R136 R137
29	1	EA	139-01503-0000	RES 150K OHM CHIP 1% EW	R128
30	2	EA	139-01001-0000	RES 1K OHM 1 % 100PPM 1/8W 1206	R138 R148
31	4	EA	139-02552-0000	RES 25.5K OHM 1 % 100PPM 1/8W 1206	R129 R135 R139 R140
32	1	EA	139-03011-0000	RES 3.01 K OHM 1 % 100PPM 1/8W 1206	R141
33	1	EA	139-03321-0000	RES 3.32K OHM 1 % 100PPM 1/8W 1206	R126
34	1	EA	139-03480-0000	RES 348 OHM CHIP 1 % 100PPM 1/8W 1206	R142

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Item	Qty	UM	Part	Title	Reference
35	1	EA	139-04990-0000	RES 499 OHM 1 % 100PPM 1/8W 1206	R147
36	3	EA	130-09006-3101	RES CH 1.0 OHMH 5% 1W	R130 R131 R132
37	9	EA	234-014279-101	RESISTOR CHIP 100 OHM 1 W 5%	R106 R107 R108 R109 R110 R111 R112 R113 R114
38	4	EA	234-014791-12R4	RESISTOR CHIP 12.4 OHM 1% 1/8W	R101 R102 R103 R104
39	2	EA	234-014791-75RO	RESISTOR CHIP 75 OHM 1% 1/8W	R100 R105
40	2	EA	118-1029-000	TOROID HASH FILTER	L104 L105
41	1	EA	118-340499-01	TRANSFORMER, SWITCHING VC-401B POWER SUPPLY	T1
42	2	EA	12722-1	XSTR IRF540 N-FET	Q100 Q101
43	1	EA	106-040479-01	TRANSISTOR, NPN, HV, MMBT5551LT1 SMT	Q104
44	3	EA	106-040481-01	TRANSISTOR, POWER IRF9540	Q105 Q106 Q107
45	1	EA	007-00065-0001	XSTR MMBT3906 PNP 40V	Q103
46	1	EA	146-040455-01	BLOCK, XSTR MOUNTING	
47	2	EA	180-0010-000	TORROID RETAINER	
48	2	EA	190-0021-000	RUBBER WASHER 0.750 DIA	
49	6	EA	089-05878-0006	SCREW, SEMS PHP 4-40 X 3/8	
50	6	EA	091-00286-0001	INSUL XSTR.687	
51	6	EA	091-00419-0000	WASHER, INSULATING SHOULDER #4	
52	3	EA	MS35338-134	WASHER SPLITLOCK #2	
53	3	EA	MS51957-3	SCREW 2-56 X 1/4 PHP	
54	2	EA	MS51957-18	SCREW 4-40 X 5/8 PHP	
55	AR	AR	16005-1	SILICONE, WHITE GLUE & SEAL	
56	AR	AR	16016-14	SLEEVEING TEFLON TFT-200-14 GA.	



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Insert 11 x 17 Power Supply Module Parts Locator here.

**CHELTON****VCS-40A VHF COMMUNICATION SYSTEM
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Item	Qty	UM	Part	Title	Reference
1	1	EA	108-640463-01	PWB, VC-401B H&L INTERCONNECT BOARD	
2	44	EA	112-040469-03	BEAD, FERRITE SMD (0603)	B1 B10 B11 B12 B13 B14 B15 B16 B19 B2 B20 B21 B22 B23 B24 B25 B26 B27 B28 B29 B3 B30 B31 B32 B33 B34 B35 B36 B37 B38 B39 B4 B40 B41 B42 B43 B44 B45 B46 B5 B6 B7 B8 B9
3	2	EA	210-040021-104	CAPACITOR 0.1 μ F 10% 50V X7R 0805	C10 C9
4	1	EA	129-240519-20	CONNECTOR, LOW PROFILE HEADER SERIES 20-PIN (STRAIGHT)	J3
5	1	EA	129-240504-060	CONNECTOR 60 PIN LATCHING LOW PROFILE RECEPTACLE SMD	J2
6	1	EA	030-02758-0000	CONNECTOR RCPT PC TAIL, SOCKET 106-PIN	J101
7	3	EA	106-440552-01	DIODE, MMBZ15VDLT1 ZENER, SMD	CR1 CR2 CR3
8	1	EA	120-03126-0005	IC LM317LM ADJ VOLT REG 100MA	U1
9	1	EA	139-01541-0000	RES 1.54K OHM 1% 100PPM 1/8W 1206	R9
10	1	EA	234-040024-2210	RES 221 OHM 1% 100PPM 1/16W TKF 0603	R5
11	3	EA	234-040107-14	VARISTOR 14V 430pF VOLT SUP 0805	RV20 RV22 RV23
12	1	EA	234-040107-15	VARISTOR 14V 1200pF VOLT SUP 0805	RV15
13	10	EA	234-040107-18	VARISTOR 18V 350pf VOLT SUP 0805	RV1 RV10 RV14 RV2 RV3 RV4 RV5 RV6 RV7 RV8
14	4	EA	234-040107-30	VARISTOR 30V 100 pF VOLT SUP 0805	RV11 RV12 RV13 RV16 RV21
15	4	EA	076-02115-0011	SPACER 1.295 LG W/ FINISH	
16	61	EA	030-01310-0000	CONTACT, SOCKET, PC, PIN (031-1324-0)	
17	4	EA	MS24693-C2	SCREW 4-40 X 1/4 FHP	
18	AR	AR	16012-7	LOCTITE 222 PURPLE	
19	1	EA	210-040020-102	CAPACITOR 1000PF 5% 50V COG 0805	C1



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Insert 11 x 17 Interconnect Module Parts Locator here.