

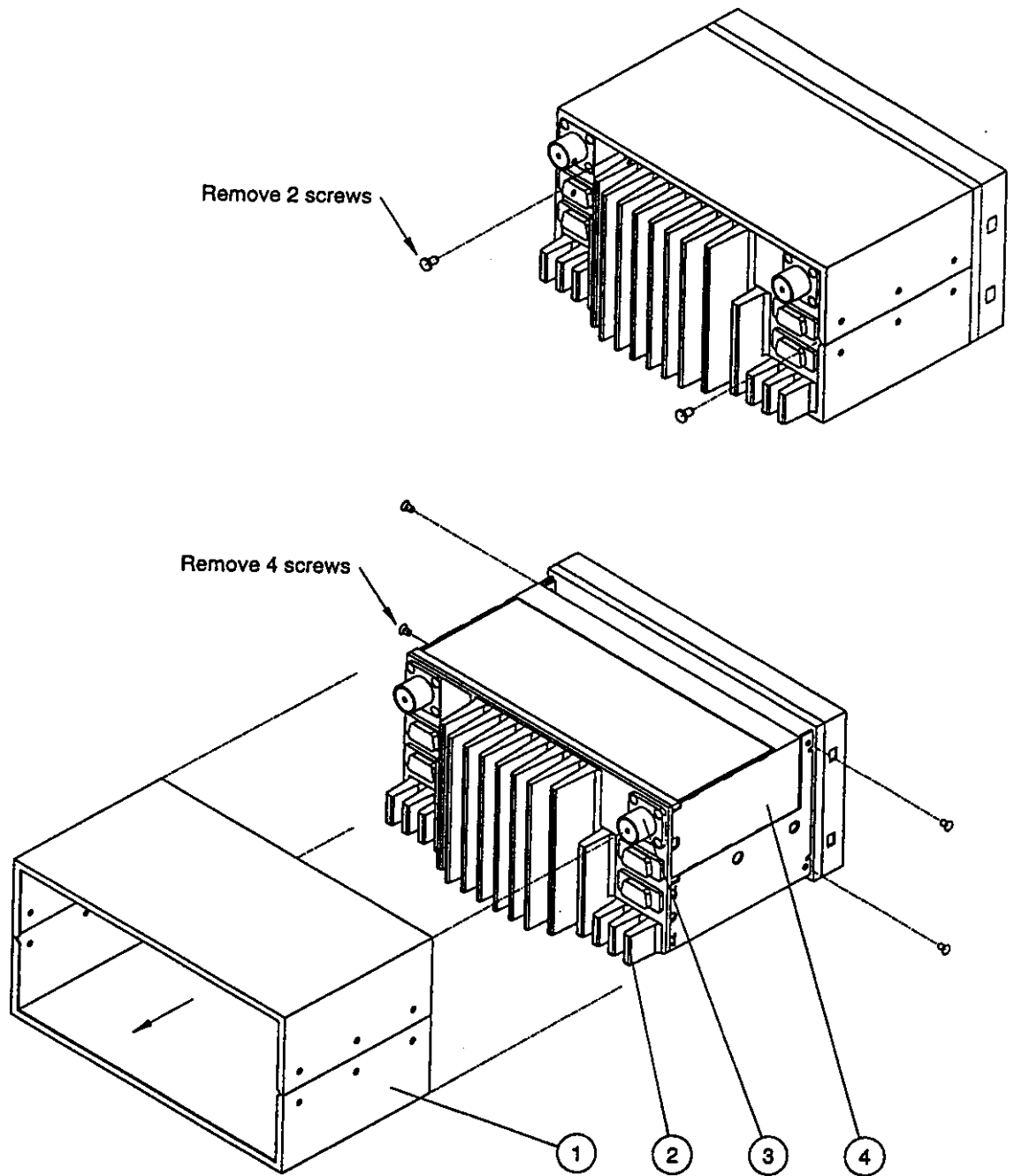
POSITION	DESCRIPTION		MANUFACTURER	TYPE	PART NO.
R58	RESISTOR SMD 0805	10kΩ OHM 1% 50mW	PHILIPS	2322 734 2/61003	302.470
R59	RESISTOR SMD 0805	1kΩ OHM 5% 0.1W	ROHM	MCR 10 EZH J 102	302.048
R60	RESISTOR SMD 0805	100k OHM 1% 50mW	PHILIPS	2322 734 2/61004	302.570
R61	RESISTOR SMD 0805	47k OHM 5% 0.1W	ROHM	MCR 10 EZH J 473	302.068
R62	RESISTOR SMD 0805	220 OHM 5% 0.1W	ROHM	MCR 10 EZH J 221	302.040
R63	RESISTOR SMD 0805	39k OHM 5% 0.1W	ROHM	MCR 10 EZH J 393	302.067
R64	RESISTOR SMD 0805	8k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 822	302.059
R65	RESISTOR SMD 0805	10k OHM 5% 0.1W	ROHM	MCR 10 EZH J 103	302.060
R66	RESISTOR SMD 0805	47k OHM 5% 0.1W	ROHM	MCR 10 EZH J 473	302.068
R67	RESISTOR SMD 0805	47 OHM 5% 0.1W	ROHM	MCR 10 EZH J 47R	302.032
R68	RESISTOR SMD 0805	68k OHM 5% 0.1W	ROHM	MCR 10 EZH J 683	302.070
R69	RESISTOR SMD 0805	5k6 OHM 5% 0.1W	ROHM	MCR 10 EZH J 562	302.057
R70	RESISTOR SMD 0805	2k7 OHM 5% 0.1W	ROHM	MCR 10 EZH J 272	302.053
R71	RESISTOR SMD 0805	33k OHM 5% 0.1W	ROHM	MCR 10 EZH J 333	302.066
R72	RESISTOR SMD 0805	39k OHM 5% 0.1W	ROHM	MCR 10 EZH J 393	302.067
R73	RESISTOR SMD 0805	1k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 122	302.049
R74	RESISTOR SMD 0805	8k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 822	302.059
R75	RESISTOR SMD 0805	8k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 822	302.059
R76	RESISTOR SMD 0805	220 OHM 5% 0.1W	ROHM	MCR 10 EZH J 221	302.040
R77	RESISTOR SMD 0805	100k OHM 1% 50mW	PHILIPS	2322 734 2/61004	302.570
R78	RESISTOR SMD 0805	33k OHM 5% 0.1W	ROHM	MCR 10 EZH J 333	302.066
R79	RESISTOR SMD 0805	22 OHM 5% 0.1W	ROHM	MCR 10 EZH J 22R	302.028
R80	RESISTOR SMD 0805	1kΩ OHM 5% 0.1W	ROHM	MCR 10 EZH J 102	302.048
R81	RESISTOR SMD 0805	47k OHM 5% 0.1W	ROHM	MCR 10 EZH J 473	302.068
R82	RESISTOR SMD 0805	8k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 822	302.059
R83	RESISTOR SMD 0805	22k OHM 5% 0.1W	ROHM	MCR 10 EZH J 223	302.064
R84	RESISTOR SMD 0805	100k OHM 1% 50mW	PHILIPS	2322 734 2/61004	302.570
R85	RESISTOR SMD 0805	121k OHM 1% 50mW	PHILIPS	2322 734 2/61214	302.578
R86	RESISTOR SMD 0805	22 OHM 5% 0.1W	ROHM	MCR 10 EZH J 22R	302.028
R87	RESISTOR SMD 0805	100 OHM 5% 0.1W	ROHM	MCR 10 EZH J 101	302.036
R88	RESISTOR SMD 0805	100k OHM 5% 0.1W	ROHM	MCR 10 EZH J 104	302.072
R89	RESISTOR SMD 0805	100k OHM 5% 0.1W	ROHM	MCR 10 EZH J 104	302.072
R90	RESISTOR SMD 0805	47k OHM 5% 0.1W	ROHM	MCR 10 EZH J 473	302.068
R91	RESISTOR SMD 0805	47k OHM 5% 0.1W	ROHM	MCR 10 EZH J 473	302.068
R92	RESISTOR SMD 0805	100k OHM 1% 50mW	PHILIPS	2322 734 2/61004	302.570
R93	RESISTOR SMD 0805	1k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 122	302.049
R94	RESISTOR SMD 0805	16k2 OHM 1% 50mW	PHILIPS	2322 734 2/61623	302.490
R95	RESISTOR SMD 0805	121k OHM 1% 50mW	PHILIPS	2322 734 2/61214	302.578
R96	RESISTOR SMD 0805	1k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 122	302.049
R97	RESISTOR SMD 0805	16k2 OHM 1% 50mW	PHILIPS	2322 734 2/61623	302.490
R98	RESISTOR SMD 0805	9k53 OHM 1% 50mW	PHILIPS	2322 734 2/69532	302.464
R99	RESISTOR SMD 0805	9k53 OHM 1% 50mW	PHILIPS	2322 734 2/69532	302.464
R100	RESISTOR SMD 0805	3k3 OHM 5% 0.1W	ROHM	MCR 10 EZH J 332	302.054
R101	RESISTOR SMD 0805	120k OHM 5% 0.1W	ROHM	MCR 10 EZH J 124	302.073
R102	RESISTOR SMD 0805	10k OHM 5% 0.1W	ROHM	MCR 10 EZH J 103	302.050
R103	RESISTOR SMD 0805	4k99 OHM 1% 50mW	PHILIPS	2322 734 2/64992	302.437
R104	RESISTOR SMD 0805	100 OHM 5% 0.1W	ROHM	MCR 10 EZH J 101	302.036
R105	RESISTOR SMD 0805	0 OHM 2A	PHILIPS	2322 730 91002 (91003)	302.050
R106	RESISTOR SMD 0805	10k OHM 5% 0.1W	ROHM	MCR 10 EZH J 103	302.050
R107	RESISTOR SMD 0805	2k2 OHM 5% 0.1W	ROHM	MCR 10 EZH J 222	302.052
R108	RESISTOR SMD 0805	100 OHM 5% 0.1W	ROHM	MCR 10 EZH J 101	302.036
R109	RESISTOR SMD 0805	100k OHM 1% 50mW	PHILIPS	2322 734 2/61004	302.570
S1	PUSHBUTTON SWITCH 1 MAKE	PCB VERSION 5.2x5.2x1.5mm	ALPS	SKQGAB	373.021
S8	PUSHBUTTON SWITCH 1 MAKE	PCB VERSION 5.2x5.2x1.5mm	ALPS	SKQGAB	373.021
S9	PUSHBUTTON SWITCH 1 MAKE	PCB VERSION 5.2x5.2x1.5mm	ALPS	SKQGAB	373.021
S15	KEYSWITCH SPST 6.2x6.2mm	50V/10mA, FA=2N, KSC221GB	ITT	KSC221JB	373.011
S17	PUSHBUTTON SWITCH 1 MAKE	PCB VERSION 6.1x3.7x2.5mm	ALPS	SKQDAA	373.015
S18	PUSHBUTTON SWITCH 1 MAKE	PCB VERSION 5.2x5.2x1.5mm	ALPS	SKQGAB	373.021
V1	LIGHT BAR YELLOW	1.2x19.2mm	DENYO EUROPA GM	153-021	25.559
V2	DIODE DUAL SCHOTTKY	BAT54A	PHILIPS	BAT54A 215	340.303
V4	DIODE DUAL SCHOTTKY	BAT54C	PHILIPS	BAT54C 215	340.309
V6	LED SMD 1210 SUPER RED	10mCd/20mA CL-200SR	CITIZEN	CL-200SR-C-TU	342.042
V7	LED SMD 1210 SUPER RED	10mCd/20mA CL-200SR	CITIZEN	CL-200SR-C-TU	342.042
V8	LED SMD 1210 YELLOW	15mCd/20mA CL-200Y	CITIZEN	CL-200Y-C-TU	342.040
V9	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V10	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V11	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V12	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V13	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V14	DISPLAY LCD F. HTC4000	50x34x2.85mm	GLORY SOUND LTD	0-3-31992B	342.573
V15	MOSFET POWER, P-CHANNEL	IRFR9020 ME8P06	IR	IRFR9020-TR	347.220
V16	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.025
V17	LED SMD 1210 GREEN	20mCd/20mA CL-200G	CITIZEN	CL-200G-C-TU	342.041
V18	TRANS. AF SMALL SIGNAL	NPN, BC848B	MOTOROLA	BC348BLT1 (T3)	345.043

POSITION	DESCRIPTION		MANUFACTURER	TYPE	PART NO.
HOOK CONNECTION 32262			ECI A/S	5-6-32262C / 4-0-32262B	632262
POSITION	DESCRIPTION		MANUFACTURER	TYPE	PART NO.
X1	TERMINAL BLOCK	15 POLES 1.5mm ²	PTR	AK300/15b m.MESS.SKRUER	81.022
X2	SOCKET 90 DEG. 4-40 BUSH.	15 POLES SUB D W/O SCREW	TAITEK	HDR-15 S 1 2	78.729
X3	TERMINAL BLOCK	15 POLES 1.5mm ²	PTR	AK300/15b m.MESS.SKRUER	81.022
R1	RESISTOR MF	120 OHM 5% 0.33W	PHILIPS	2322 187 73121	02.450
R2	RESISTOR MF	560 OHM 5% 0.33W	PHILIPS	2322 187 73561	02.466
R3	RESISTOR MF	91k OHM 5% 0.33W	PHILIPS	2322 187 73913	02.519
R4	RESISTOR MF	56k OHM 5% 0.33W	PHILIPS	2322 187 73563	02.514
S1	SH. SQUARE PINS	2 POLES CC=1/10"	AMP	0-826629-2	78.322
S2	KEYSWITCH MINIATURE SPST	7.4x7.4mm	ITT	KSA0M210	43.524
S3	KEYSWITCH SP N-O	14.4X14.4mm	MARQUARDT	6425.1101	43.525
V1	LED SUB. MIN YELLOW	3.6mCd/10mA	H.P.	HLMP-6405 OPTION 1S1	25.658
V2	LED SUB. MIN YELLOW	3.6mCd/10mA	H.P.	HLMP-6405 OPTION 1S1	25.658

3.2 Service

Please refer to part 3 of this manual: "Service".

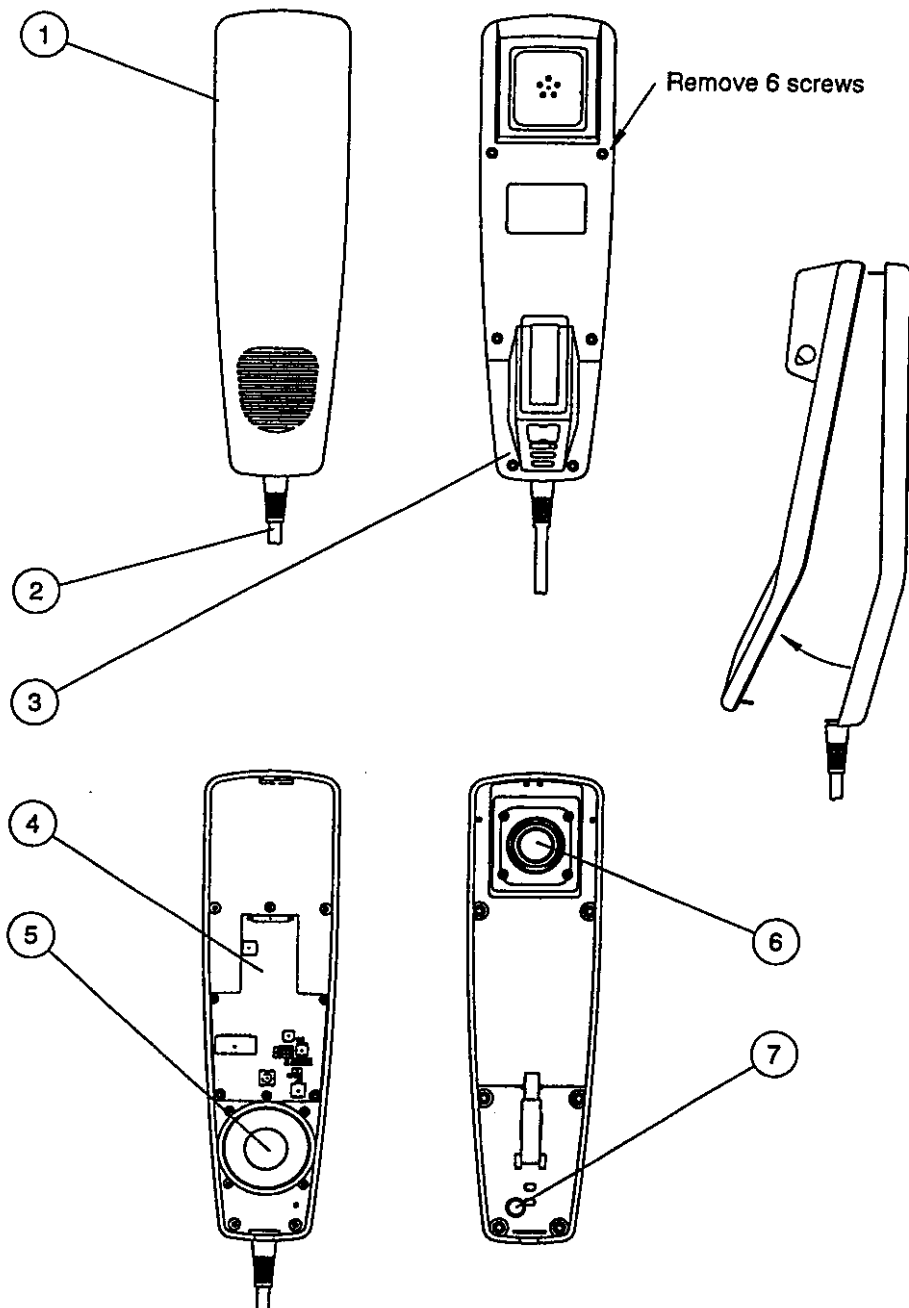
Exploded view RT4822

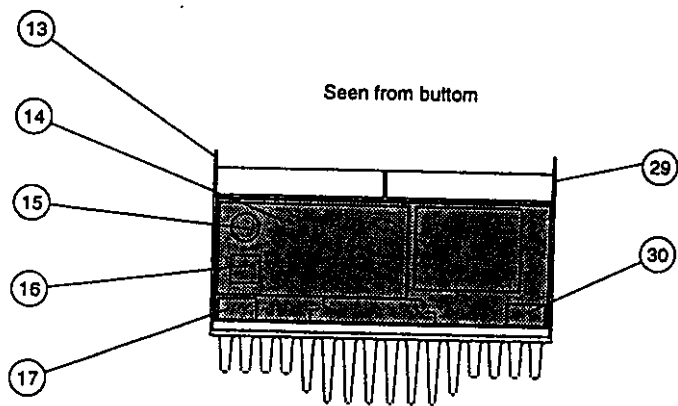
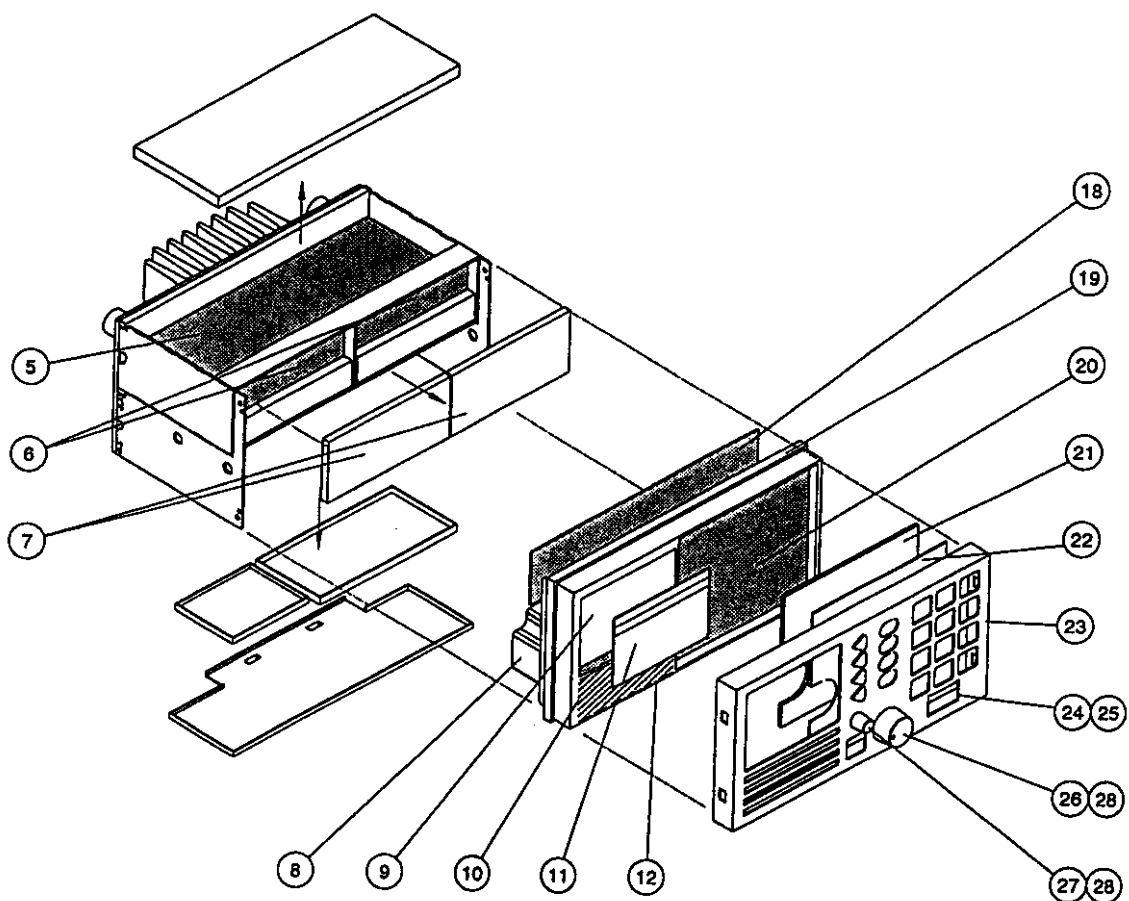


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Mechanical parts lists

POS	NAME	PART NO.
1	Handset upper part	48.769
2	Spiral cable	56.102
3	Handset lower part	48.761
4	Handset unit 32264	632264
5	Loudspeaker. 8 OHM 1.5W ø40mm	46.031
6	Transducer dynamic 150ohm	46.008
7	Microphone.electret ø6 x 2.9mm	46.015

Exploded view Handset for RT4822



3.3 Mechanical description

Mechanical parts lists

POS	NAME	PART NO.	
1	Cover	230553xx	
2	Cooling fin	59.046	
3	Antenna jack (female) SO239	78.504	
4	Chassis	59.047	
5	RTU Transmitter	632251	
6	RTU Receiver	632252	
7	Cover for receiver	230461	
8	Loudspeaker 4 OHM 5W 50x90mm	46.046	
9	Display LCD	25.718	
10	SCC Indicator	632255	
11	Display window	48.776	(sailor)
12	Air filter	51.008	
13	Left side chassis	230478	
14	RTU Transmitter	632251	
15	Battery Li 3V/0.22Ah ø20x3.2	47.007	
16	EEPROM 8k Bit serial	356.323	
17	Handset conv. 32257	632257	
18	Interface 32253	632253	
19	Housing for front chassis	164.073	
20	SCC Keyboard	632254	
21	Light guide	48.811	
22	Frontfoil	51.484	
23	Frontal plane	230400xx	
24	Distress cover	48.813	
25	Distress frame	48.814	
26	Knop "VOL" ø21x12.3mm	84.156	
27	Knop "SQ" ø10x11.0mm	84.151	
28	Driving mechanism	84.154	
29	Right side chassis	230477	
30	Printer conv. 32270	632270	

Handset control units C4900/C4901

POSITION	DESCRIPTION		MANUFACTURER	TYPE	PART NO.
V19	LED SMD 1210 SUPER RED	10mCd/20mA CL-200SR	CITIZEN	CL-200SR-C-TU	342.042
V20	TRANS. AF SMALL SIGNAL	NPN, BC848B	MOTOROLA	BC848BLT1 (T3)	345.048
V21	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.026
V22	TRANS. AF SMALL SIGNAL	NPN, BC848B	MOTOROLA	BC848BLT1 (T3)	345.048
V23	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.026
V24	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.026
V25	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.026
V26	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	342.026
V27	LED SMD 0805 YELLOW	5mCd/20mA CL170Y	CITIZEN	CL-170 Y-C D-T	25.699
V28	LIGHT BAR YELLOW	1.2x19.2mm	DENYO EUROPA GM	150-021	345.048
V29	TRANS. AF SMALL SIGNAL	NPN, BC848B	MOTOROLA	BC848BLT1 (T3)	350.106
N1	VOLTAGE REGULATOR FIXED	5V/0.1A LE50AB	ST	LE50ABD TAPE&REEL	85810900
N2	DUAL CMOS OPAMP	LMC662	NATIONAL	LMC662CMX	351.202
N3	DUAL AUDIO ATTENUATOR	WITH MUTE LM1972	NATIONAL	LM1972	350.675
N4	AF POWER AMPLIFIER 1W	LM4860	NATIONAL	LM4860MX	350.107
N6	VOLTAGE REGULATOR FIXED	8V/0.1A LE80AB	ST	LE80ABD TAPE&REEL	350.530
N7	QUAD OP.AMP.	LM324	MOTOROLA	LM324D R2	355.066
N8	QUAD BILATERAL SWITCH	CD4066BC	MOTOROLA	MC14066BD R2(R1)	350.530
N9	QUAD OP.AMP.	LM324	MOTOROLA	LM324D R2	85870000
N10	LOW POWER AUDIO AMPLIFIER	MC34119	MOTOROLA	MC34119D R2(R1)	85810900
N11	DUAL CMOS OPAMP	LMC662	NATIONAL	LMC662CMX	372.004
Z1	XTAL 4.9152MHz 50ppm		RALTRON	HC49/S 4.9152 30pF SMD T	