

# Part List, Electrical

Applicable for K790, K800

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# 1 General

This document provides part numbers for Electrical Repair Level parts. Information that used to be in this document regarding calibration, moisture sensitivity, and rework equipment is now located in the Electrical Component Placing (1078) and Electrical Working Instruction (3/00021) documents.

## 2 PCB Components

Contains only components that are possible to replace on the main board.

Pos. number refers to the components position number on the board.

Some components are noted as MSL X. These components are moisture-sensitive and are rated at various levels (MSL):

- Level 1:** Unlimited floor life; does not require dry pack or re-baking.
- Level 2:** 1 year floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 2A:** 4 week floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 3:** 168 hours floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 4:** 72 hours floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5:** 48 hours floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5A:** 24 hours floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 6:** 6 hours floor life;  $\leq 30$  C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.

Component placing will be found in document 1078-ROA 128 1740 PB2

**NOTE!**

RF Calibration by using SERP can only be done by authorized repair centers.

Fence modification according to Working Instruction Electrical.

**P = Primary Side, S = Secondary Side**

Side	Pos	Description	Part Number	Comments
S	A1200	Ray/UMTS-module	ROA 128 1112/Z	<b>K800 ONLY. Not used on K790. Calibration Required Special Soldering Process Required MSL 5A</b>
S	A1300	Marlin/GSM-module	ROA1281640/Z	<b>K800 ONLY. Not used on K790. Calibration Required Special Soldering Process Required MSL 5A</b>
P	B2100	Crystal 32768HZ +-20PPM 12.5pF	RTM501911/1	<b>Calibration Required</b>
P	B4100	Microphone RF Improved	RLC509427/3	
P	C2217	0.07F 3.3V CAPACITOR	RJE3551335/7	
S	D1400	MICROCIRCUIT/Bluetooth E-STLC2500C4	RYT 123 923/2	MSL 3



Side	Pos	Description	Part Number	Comments
S	R1404	Resistor, 470 OHM 5% 0201 0,05W	REP 621 003/47	<b>K790 ONLY. Not used for K800. ROA (PCB) with revision R3A and R3B only.</b>
S	R1405	Resistor, 4,7 KOHM 5% 0201 0,05W	REP 621 004/47	<b>K790 ONLY. Not used for K800. ROA (PCB) with revision R3A and R3B only.</b>
S	D2301	512Mb NAND	RYT118932/2	
S	D2304	USB transceiver and UART MUX	RYT109913/1	
S	H2300	IRDA 6,7*2,45*1,7	RKZ923919/1	
P	D3100 D3101	Octal bus transceiver	RYT109915/1	<b>K800 ONLY. Not used on K790.</b>
S	N1100	RF Module Dolphin 2	ROK 103 010/Z2	<b>K790 ONLY. Not used on K800. Calibration Required. MSL 5A</b>
P	N2000	ASIC Vincenne2 A07 1.8V Cu-Plug Thin Ni (Pb-free package)	ROP1013066/6	MSL 3 Vincenne2 calibration required.
P	N2200	LDO 1.3V	RYT1137810/1	
P P S P	N2202 N2203 N2204 N2210	Voltage regulator 2,8V	RYT1137824/1	<b>Position N2210 is on K800 only.</b>
S	N2300	USB FILTER NETWORK	RKZ923921/1	
P	N2600	Single chip elec tuned FM stereo radio	RYT109905/3	
P	N3100	Microcircuit	RYT109933/1	
P	N4100	1W OPAMP Pb-Free version	RYT101947/2	
P	N4202	ASIC TJATTE 3	ROP1013074/1	
S	S2500 S2502 S2503 S2507	Side push switch	RMD10116/4	
P	S2504	JOYSTICK SWITCH	SXA1092476	
P	S2505 S2506	A/B key switch	RMD10147	
S	V2201	Diode, Schottky, Pb Free	RKZ123918/1	
S	V2202	P-CHANNEL MOSFET	RYN122684/2	
S	V2220	Dual MOSFET complementary N-P	RYN123919/1	
S	V2301	NPN transistor, SOT723, R1=22k	RYN121931/1	same as V2552
P	V2500	Dual ESD protection diode	RKZ223914/1	
P	V2504	SWI X2 75V 2X75mA SC75	RKZ123904/1	
P	V2552	NPN transistor, SOT723, R1=22k	RYN121931/1	same as V2301
P	V3101	Transistor, Mosfet, N-Channel, SC88	RYN123915/1	
P	V3102	SCHOTTKY DIODE.	RKZ323907/1	
S	V3103	Dual N-Channel 2.5V MOSFET	RYN901923/1	
S	V3110	LED Red Side fire	RKZ433924/1	
P	V3113	MOSFET, Dual P-CHANNEL NoPb	RYN122904/1	
S	V4101	Dual ESD protection diode	RKZ223914/1	same as V2500
S	X1000	External Antenna connector	RPT79953	
S	X1002	Int antenna connector	RPT79951	
S	X2200	Battery connector	SND10622	
S	X2301	M2 Memory Card Reader	RNK87147	
S	X2302	Sim Reader	RNK87146	
P	X2501	20 Pin BtB (female)	RNV799009	
P	X2505	30 Pin BtB (male)	RNV79992	
P	X2550	FPC 10 pin (DDK)	RNV799019/10	
P	X3102	26 Pin BtB (female)	RNV79994	
S	Covers E1000	Shield can lid, Bb Prim/Assembly	SXK1096823	



Side	Pos	Description	Part Number	Comments
P	Covers E1001	Shield can lid, Bb Sec	SXA 109 6371	
S	E1002	Shield Can BT	SXA 109 6043	
P	X2510	Socket VGA camera	RNV 799 015	
P	C22109	CAPACITOR/10uF 20% 0603 6.3V	RJC 516 4038/1	
P	R3101	RESISTOR/47ohm 1% 0201 0.05W	REP 621 102/47	
P,P P,P P	V2503,V2506 V2507,V2508 V2509	DIODE/Diode lead free	RKZ123910/1	

### 3 Revision History

Rev.	Date	Changes / Comments
A	2006-Jun-06	Initial Release.
B	2006-Jun-27	Added D3100, D3101. Added N2210. Added information to the "Side" column
C	2006-July-17	Added support for K790
D	2006-July-19	Updated part names and partnumber
E	2006-09-01	Added A1200, D1400 and N1100. Added calibration note to B2100. Added MSL to Ray, Dolphin2, Bluetooth chip and Vincenne2
F	2006-11-03	Added R1404, R1405 and A1300
G	2007-03-05	Added X2510 Updated info on Ray and Marlin RF-modules
H	2007-07-03	Added calibration to Vincenne2 Added N3100
9	2008-02-11	Added R3101 and C22109
10	2008-03-07	Added V2503,V2506,V2507,V2508 and V2509
11	2009-04-30	Changed ROK 103 010/Z1 to ROK 103 010/Z2