

# Part List, Electrical

Applicable for W595

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# 1 Part list Main Board

The part list 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.

Parts shipped from the Sony Ericsson Parts Warehouse are most likely NOT shipped in dry pack. This means the time elapsed between placing the order and receiving the parts must be considered as time exposed to the environment.

Different moisture sensitivity levels and exposure times create the need for different baking temperatures and times. More detailed information may be found in the most recent version of the IPC/JEDEC J-STD-033A standard. The standard is available online at <http://www.jedec.org/>

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

Component placing will be found in document 1215-7381.

**P=Primary side, S=Secondary side.**

Side	Pos.	Description	Part Number	Comments
P	B2100	Crystal 32,768 kHz	RTM501911/1	Calibration required (SERP)
P	B3105	Microphone	1206-4070	
S	B4200	Vibrator	1202-4687	More info see SI 17543-80638.
			1202-9271	More info see SI 17543-80638.
P	C2217	Capacitor 220 $\mu$ F 4.0 V	1205-9750	MSL3
P	L2200	Inductor Wirewound 4.7 $\mu$ H	1200-2190	MSL1
P	L2401, L2402, L2403, L2404, L2411	Filter 0.0 Hz 0402	REG70618/20	MSL1
P	L2421, L2422	Inductor 120nH 5% 0402 0.11A	REG7245543/12J	
P	N1002	IC Amplifier	1200-9356	Calibration required (SERP) Inside the N1200 module.
P	N1200	Thor 2 Radio Module EDGE	1212-2584	Calibration required (SERP) MSL5A
P	N1210	RF-Module Squid prebumped	1204-1674	Calibration required (SERP) MSL5A
P	N1400	Module Bluetooth + FM STLC2592	1200-6182	MSL3
P	N2202	IC Vreg 600mA	1205-8787	MSL1
P	N2203	IC Vreg PLP1010-4	1201-6465	MSL1
P	N2205	DC/DC Converter	RYT1137838/1	
P	N2400	1-Bit Level Translator	RYT109914/1	
S	N2402	IC ESD Prot UDFN 6 2x2mm	1200-6309	MSL1
S	N2404	IC IF ISP1508 ES3 (3.5*3.5*0.8)	1200-1694	
S	N2410	IC ESD Prot CS-5	RKZ923926/1	MSL1
P	N2490	ASIC Accelerometer	1202-1676	
P	N3100, N3102	IC CS-9	1200-9978	
P	N3101	ASIC Tjatte3 CSP20	ROP1013074/1	MSL1



Side	Pos.	Description	Part Number	Comments
P	N4200	Trans N-ch FET	RYN901936/1	
P	N4310	IC Vreg	RYT113997/4	
P	N4311	IC Vreg	1202-7650	
P	R2432, R2434	Resistor 0, Ohm +/-50m 63mW K0603	REP623001/0	MSL1
P	V2200	Zener diode	RKZ223911/1	MSL1
P	V2202	Trans P-ch FET	RYN122910/1	
P	V2405	MOSFET Complementary N P 20 V (DS)	RYN901918/2	
P	V2408	Schottky Barrier Diodes 2PIN	RKZ123905/1	
S	V2420	Zenner Diode 15V	RKZ223921/1	
P	V2421	Zenner Diode 15V	RKZ223921/1	
P	V4220	Zener diode 5,6 V	RKZ223911/3	
S	X1200	Conn Receptacle 0p Hirose RF connector	1204-6720	
S	X1201, X1400, X1401	Antenna connector	SND90161R2	
S	X2200	Battery Connector	RNV79943R1	
P	X2400	System Connector	1202-1195	
S	X2410	MS Connector	1203-4820	
S	X2420	SIM Connector	1204-9440	
P	X2430	Connector FPC 25p	1200-7390	
P	X4200	Connector FPC 51p	1206-3316	
P	X4300	Connector FPC 26p	1205-5606	
P	Z4200, Z4201, Z4202, Z4203	LC Filter	REV50148/1	Only old W595 revision
P	E1	Shield Can Closed assembly	1200-0188	For N1002
P	E1000	Shield Can Lid Main	1206-5800	
S	E1001	Shield Can Lid USB	1206-5801	

## 2 Revision History

Rev.	Date	Changes / Comments
1	2008-09-26	First release
2	2009-05-06	Only old W595 revision added to Z4200-Z4203 1202-9271 added 1202-9271 to B4200.
3	2009-06-23	V4220 added
4	2009-09-15	Added info about SI for 1202-4687 and 1202-9271.