

Component Replacement

- electrical -



Xperia™ Z1
C6916 / L39t / L39u

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For general information about electrical repair related issues, refer to 1220-1336: Generic Repair Manual - electrical

Test after electrical replacement: refer to 1273-1772 Mechanical Test Instruction

Do not remove shield can lids (Heat pasta are added and RF performance will be damaged)

1 Replaceable Components

EXPLANATION OF ABBREVIATIONS USED IN THE COLUMN 'COMMENTS' BELOW

COMPONENT LOCATION

P = Primary side

S = Secondary side

REPAIR METHOD

HA = Hot Air (removal & mounting)

ST = Soldering Tool (removal & mounting)

HA/ST = Hot Air for removal - Soldering Tool for mounting

BGA = BGA Station

BH = Bottom Heater

ADDITIONAL INFORMATION

⇒1 (2,3,4, etc.) = Proceed to 'Additional Repair Info' for further instructions in the indicated section(s).

Position	Component	Part no.	Comments
L1301	Ferrite B 120.0 Ohm 3.0 A 0603	1200-2944	S HA+BH ⇒1
MC3580	Microphone	1210-7410	S HA+BH or BGA ⇒2
R1301	Resistor 0.0 Ohm +/-50m 63.0 mW K0603	1000-0257	S HA+BH ⇒1
R1304	Resistor 0.01 Ohm +/-1% 200.0 mW (1.6x0.	1238-2147	S HA+BH ⇒3
R1310	Resistor 0.0 Ohm +/-50m 63.0 mW K0603	1000-0257	S HA+BH ⇒1
V7800	LED White 1.63 x 2.03 x 0.75 mm Flash LE	1267-1941	S HA+BH ⇒4
X1300	Conn BtB Plug 4p HIROSE/BM22	1264-8491	S HA+BH ⇒5
X1301	Conn BtB Receptacle 4p HIROSE/BM22	1264-6156	S HA+BH ⇒6
X2200	Conn USB B Receptacle 5p	1268-3388	P HA+BH or BGA ⇒7
X2801	Conn Coax Receptacle 1p	1237-5326	S HA+BH ⇒8
X2804	Conn Coax Receptacle 1p	1237-5326	S HA+BH ⇒9
X2812	Conn Leaf Spring Receptacle 1p Antenna/G	1238-5879	P HA+BH ⇒10
X2900	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒11
X2901	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒11
X8001	Conn Coax Receptacle 1p	1237-5326	S HA+BH ⇒12
X8003	Conn Coax Receptacle 1p	1261-3591	S HA+BH ⇒13
X8004	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒14
X8005	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒14
X8650	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒15
X8651	Conn Leaf Spring Plug 1p Antenna/GND Sp	1239-2123	S HA+BH ⇒15



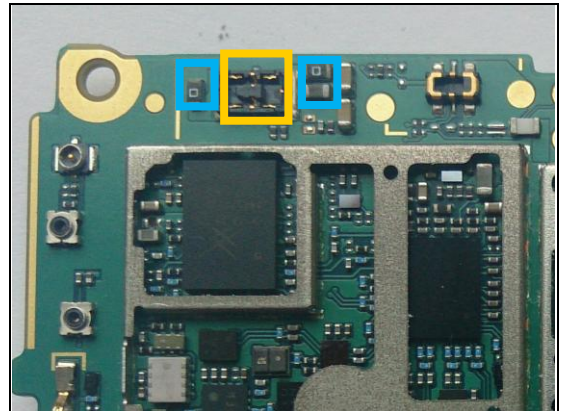
3 Additional Repair info

1

L1301, R1301, R1310

Replace if open circuit (Magnet charger / Main charger not working)

Protect the BtB connector with capton tape!

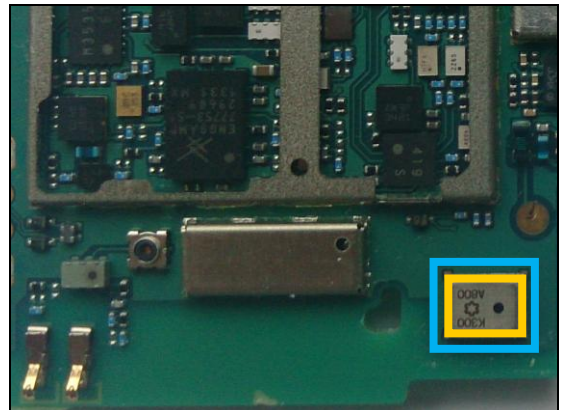


2

MC3580

Replace if no audio from secondary mic

When replacing protect secondary mic with capton tape!

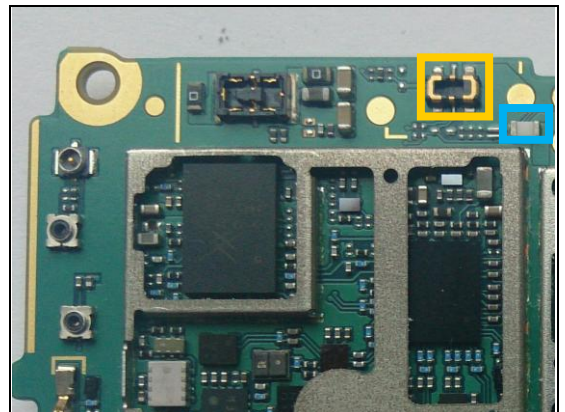


3

R1304

Replace if open circuit (Phone Dead)

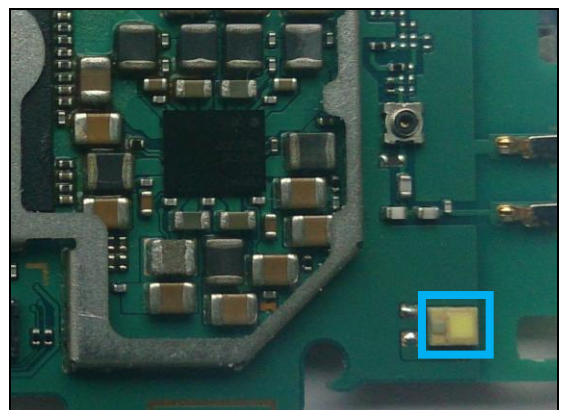
Protect the BtB connector with capton tape!



4

V7800

Replace if Flash LED not working

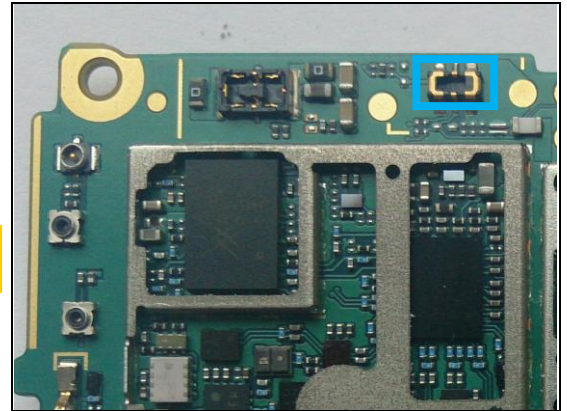


Repair Actions: Additional Repair Info

5

X1300

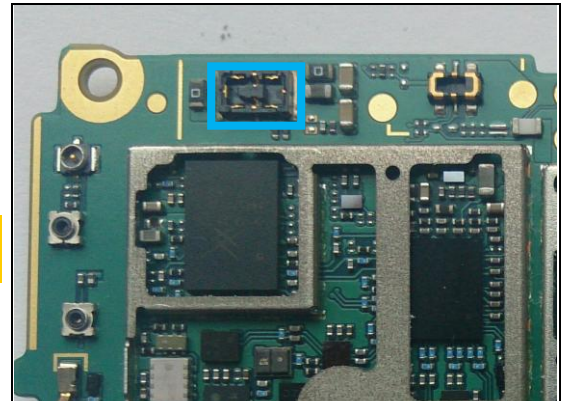
Replace if mechanical damaged. (Phone dead or power off)



6

X1301

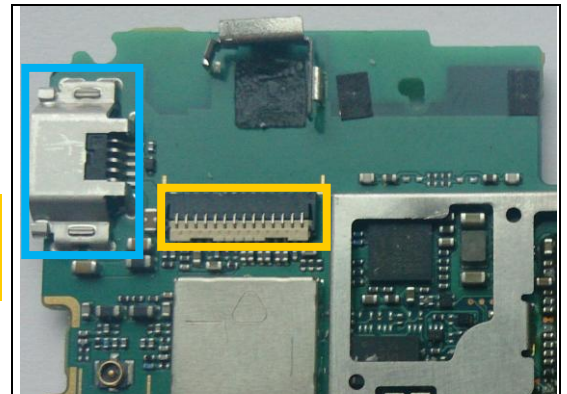
Replace if mechanical damaged (Magnet charger / Main charger not working)



7

X2200

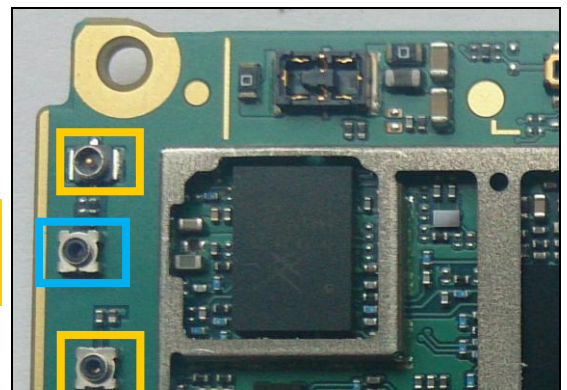
Replace if mechanical damaged (USB charger or data transfer not working)
Protect the BtB connector with capton tape!



8

X2801

Replace if open circuit 1-2 (No or bad network, main antenna)
Protect the Coax connectors with capton tape!

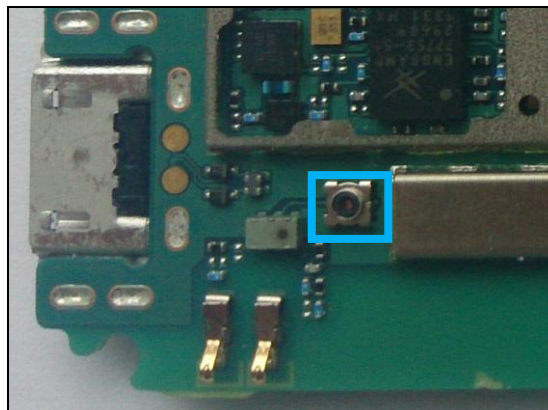


Repair Actions: Additional Repair Info

9

X2804

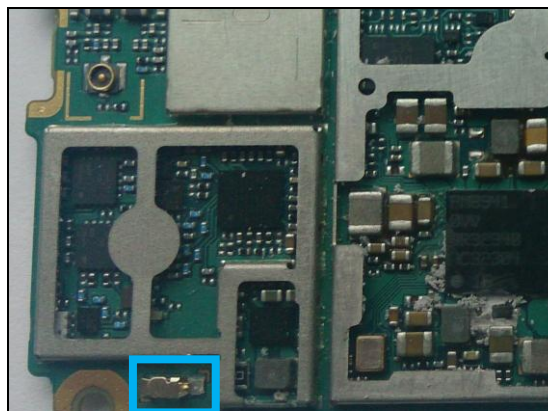
Replace if open circuit 1-2 (no or bad GPS / secondary antenna)



10

X2812

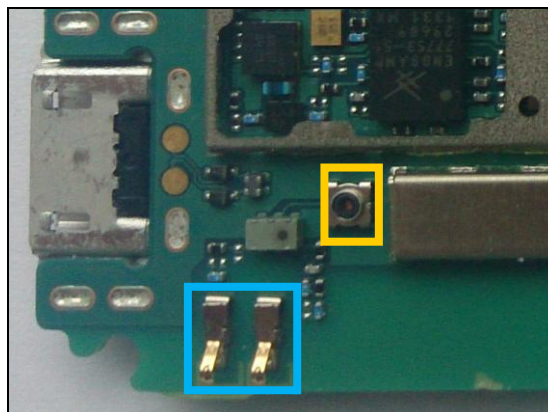
Replace if mechanical damaged (Bad network, grounding pins)



11

X2900, X2901

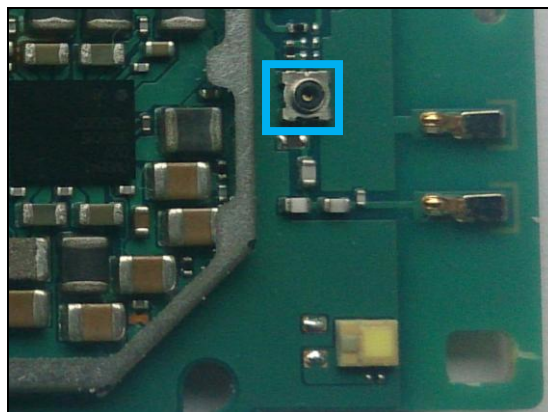
Replace if mechanical damaged (no or bad GPS / secondary antenna) (Protect the Coax connector with capton tape!)



12

X8001

Replace if open circuit 1-2 (no or bad WLAN/ BT)



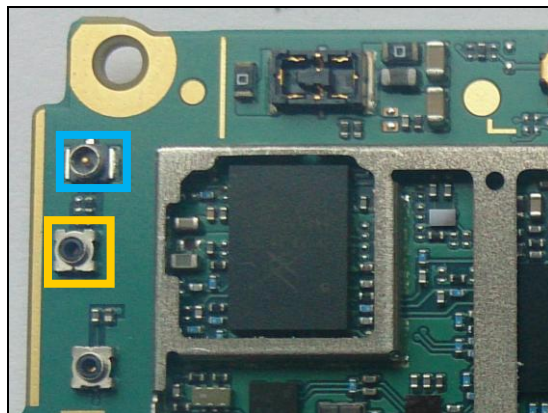
Repair Actions: Additional Repair Info

13

X8003

Replace if mechanical damaged (No or bad network, main antenna)

Protect the Coax connectors with capton tape!

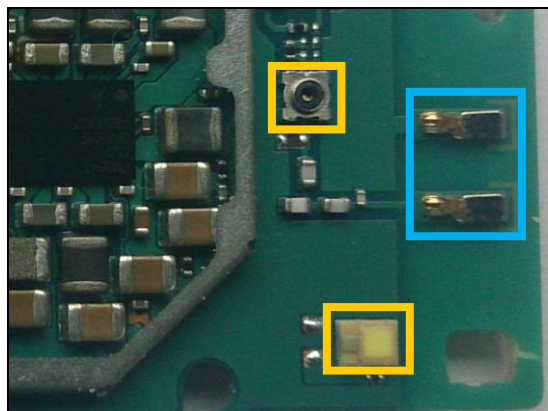


14

X8004, X8005

Replace if mechanical damaged (no or bad WLAN/ BT)

Protect the Coax connector and Flash LED with capton tape!

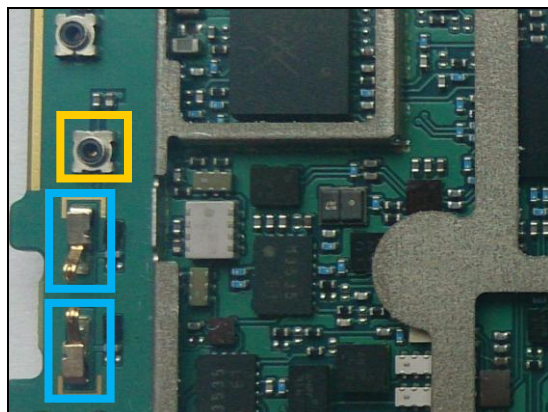


15

X8650, X8651

Replace if mechanical damaged (no or bad NFC)

Protect the Coax connector with capton tape!



4 Revision History

Rev.	Date	Changes / Comments
1	2014-04-20	Initial release