



Sony Ericsson

Troubleshooting Guide

- electrical -



S312

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1 Troubleshooting Flow

1.1 Display

Symptom: Display problem

Replace: **J301**, if damaged

Troubleshooting Flow

1.2 Illumination

Symptom: No Display illumination

Replace: **J301**, if damaged
D302 or **D301**, if short circuit

Symptom: No Navigation keys illumination

Replace: **J601**, if damaged
D605, if short circuit

Symptom: No TORCH LIGHT

Replace: **LED301**, if damaged
D304 or **D303**, if short circuit



Troubleshooting Flow

1.3 Keys

Symptom: Keyboard problems

Replace: **J601**, if damaged

D607, D608, D610, D611, D612, D613, D614, D615, D618, if short circuit

Troubleshooting Flow

1.4 Alert & RTC

Symptom: Vibrator problems

Replace: **D508**, if short circuit

Symptom: The clock gain or lose time

Replace: **X102**



Troubleshooting Flow

1.5 Audio

Symptom: No Microphone

Replace: **J501**, if damaged
D505, if short circuit

Symptom: No Earphone

Replace: **D506**, **D507**, if short circuit

Symptom: No or bad Loudspeaker

Replace: **D503**, **D504**, if short circuit
U501, if damaged

Symptom: Can not detect Hands-free (PHF)

Replace: **D709**, if short circuit

Symptom: No FM Radio

Replace: **U803**, if damaged
D702, if short circuit



Troubleshooting Flow

1.6 On/Off

Symptom: Using no current when On/Off key is pressed and will not start.

Replace: **J401**, if damaged

J601

D601, if short circuit

U904, if damaged

Symptom: Current draw greater than 300 mA

Replace: **D403**, if short circuit

Troubleshooting Flow

1.7 Charging & Capacity

Symptom: No Charging from power outlet

Replace: **J401**, if damaged
D403 or **D708**, if short circuit
D402 or **D405**,
U401, if damaged

Symptom: No Charging from computer via USB

Replace: **J401**, if damaged
D701, if short circuit
D403 or **D701**, if short circuit
D401 or **D405**,
U402, if damaged

Symptom: Capacity problem

Replace: **D404**, if short circuit

Troubleshooting Flow

1.8 Data Communication

Symptom: No communication via the System Connector

Replace: **D706**, **D707** or **D701**, if short circuit
U703, if damaged



Troubleshooting Flow

1.9 Network & Signal

Symptom: No network or Poor Signal

Replace: **J905** or **J906**, if damaged

J904

U904

Revision History

Rev.	Date	Changes / Comments
1	2009-Jun-14	Initial release
2	2009-Jul-25	Due to system failure. No changes.