



Troubleshooting Guide

- electrical -



Aspen
M1i, M1a



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1 Troubleshooting Flow

For information about troubleshooting and optional troubleshooting equipment, refer to the 'Generic Repair Manual – electrical', section 'Troubleshooting Directions'!

1.1 Display

Symptom: Display problem
Replace: LCN1 if damaged



Troubleshooting Flow

1.2 Touch Panel

Symptom: No function

Replace: LCN2 if damaged



Troubleshooting Flow

1.3 Illumination

Symptom: No Display illumination

Replace: **LCN1** if damaged
PL1308 if more than 1 Ohm

Symptom: No LED indicator Blue LED

Replace: **D1304**

Symptom: No Qwerty keys illumination

Replace: **LED1201,LED1202,LED1203,LED1204,LED1205,LED1206** replace the defect one



Troubleshooting Flow

1.4 Keys

Symptom: Volume up key problems

Replace: **SW1003** if more than 1 Ohm pin 1-2 ,when key is pressed

Symptom: Volume down key problems

Replace: **SW1006** if more than 1 Ohm pin 1-2 ,when key is pressed

Symptom: Power key problems

Replace: **SW1004** if more than 1 Ohm pin 1-2 ,when key is pressed

Symptom: Reset key problems

Replace: **SW901** if more than 1 Ohm pin 1- GND ,when key is pressed



Troubleshooting Flow

1.5 Alert / RTC

Symptom: The clock gain or lose time

Replace: X1601



Troubleshooting Flow

1.6 Audio

Symptom: No Microphone

Replace: **MIC101**

Symptom: No or bad Loudspeaker

Replace: **AL106 or AL107** if more than 2 Ohm

Symptom: No Hands-free (PHF) Aux Microphone

Replace: **CN1** if damaged

AL201

Symptom: No Hands-free (PHF) Aux Earphone

Replace: **CN1** if damaged

AL204 or AL205 if more than 2 OHM

Symptom: No or bad FM Radio

Replace: **CN1** if damaged

FML201 if more than 2 Ohm



Troubleshooting Flow

1.7 On/Off

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

Replace: **SW1004** if more than 1 Ohm pin 1-2 ,when key is pressed

Symptom: Other

Replace: **PCON1601** if damaged



Troubleshooting Flow

1.8 Charging/Capacity

Symptom: No Charging from power outlet or No Charging from computer via USB

Replace: **CN1101** or **PCON1601**, if damaged

Symptom: The Clock has to be set after the battery has been detached.

Replace: **PC1630**



Troubleshooting Flow

1.9 SIM

Symptom: SIM not detected

Replace: **CN1102** if damaged
Q1101



Troubleshooting Flow

1.10 Camera

Symptom: Camera problems

Replace: U1303



Troubleshooting Flow

1.11 Data Communication

Symptom: No communication via the Micro USB Connector

Replace: **CN1101** if damaged

Symptom: No or bad GPS connection

Replace: **spring1** if damaged

Symptom: No or bad Bluetooth or W-LAN connection

Replace: **WABS1** if damaged

WWL1401 if damaged



Troubleshooting Flow

1.12 Micro SD

Symptom: Memory stick not detected

Replace: CN1402 if damaged



Troubleshooting Flow

1.13 Network/Signal

Phone

Symptom: Phone fails to lock on to network during radiated (wireless) Go / No Go test

Action: Use RF probe to perform conducted Go / No Go test

Symptom: Phone passes conducted (RF cable) Go / No Go test but fails radiated (wireless) Go / No Go test

Check: **WAPS1** for damage and replace if necessary

WQCN0101 for damage and replace if necessary

Replace: **Antenna**

Action: Rerun the phone through radiated (wireless) Go/No Go testing

Symptom: Phone fails conducted (RF probe) Go / No Go test

Replace: **WQCN0101** if damaged



2 Revision History

Rev.	Date	Changes / Comments
1	2010-Jun-14	Initial release
2	2010-Jun-22	No Update