



Sony Ericsson

Troubleshooting Guide

- electrical -



Txt pro, CK15i, CK15a



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1 Troubleshooting Flow

1.1 Display

Symptom: Display problem

Replace: **J502**, if damaged, visual check pin 1,3,5,7,9,11,13,15,17,19,21,23,25
U506, U507 or **U508**, if damaged



Troubleshooting Flow

1.2 Touch

Symptom: Touch Screen problems

Replace: **J502**, if damaged

vision check pin 24,26,30,32



Troubleshooting Flow

1.3 Illumination

Symptom: No Display illumination

Replace: **J502**, if damaged, visual check pin 40,42,44,46,48,50

Symptom: No Main key LED

Replace: **D705**, if short circuit

Q701, if damaged

D701, D702, D703, D704 if damaged

Symptom: No Pre-charge Charge LED

Replace: **J502**, if damaged vision check pin 16

Q501, if damaged



Troubleshooting Flow

1.4 Keys & Sensors

Symptom: Power/Lock Key problems

Replace: **SW704**, if damaged

Symptom: Camera Key problems

Replace: **SW703**, if damaged

Symptom: Volume up key problems

Replace: **SW701**, if damaged

Symptom: Volume down key problems

Replace: **SW702**, if damaged

Symptom: QWERTY keys problems

Replace: **D707, D708, D710,D714,D718** if short circuit

Symptom: Proximity Sensor

Replace: **U501**, if damaged

Symptom: Accelerometer problems

Replace: **U503**, if damaged

Symptom: Slide/Flip Sensor

Replace: **U504**, if damaged



Troubleshooting Flow

1.5 Alert & RTC

Symptom: Vibrator problems

Replace: **J605**, if damaged
Q602

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

Replace: **BAT201**

Note: Phone has not the BAT201 (Tan capacitor) after production week 12W01.
Details refer to SI: 18953-94505 (Tantalum capacitor removal)



Troubleshooting Flow

1.6 Audio

Symptom: No Microphone

Replace: **J502** vision check pin 39

Symptom: No Earphone

Replace: **J502** vision check pin 31,33

Symptom: No or bad Loudspeaker

Replace: **D601, D603**, if short circuit
L602, L604, if open

Symptom: No Hands-free (PHF) Aux Microphone

Replace: **D606**, if short circuit

Symptom: No Hands-free (PHF) Aux Earphone

Replace: **D607** or **D608**, if short circuit

Symptom: No Hands-free (PHF) audio – Phone not recognizes PHF set

Replace: **D610**, if short circuit

Symptom: No FM Radio

Replace: **D605**, if short circuit



Troubleshooting Flow

1.7 On/Off

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

Replace: **J402**, if damaged
SW704, if damaged
D401, if short circuit



Troubleshooting Flow

1.8 Charging & Capacity

Symptom: No Charging from power outlet

Replace: **J402**, if damaged
J403, if damaged, visual check pin1,5
D402, if short circuit
U401
U202

Troubleshooting Flow

1.9 SIM

Symptom: SIM not detected

Replace: **J401**, if damaged



Troubleshooting Flow

1.10 Camera

Symptom: Camera problems

Replace: **J501**, if damaged

RN501, RN502 or RN503 if damaged

U510



Troubleshooting Flow

1.11 Data Communication

Symptom: No communication via the USB Connector, charging via USB connector is working

Replace: **J403**, if damaged vision check pin 2 and 3

FL401, if damaged

Symptom: No Bluetooth and WLAN connection

Replace: J1001, if the resistance between pin1 and 2 is higher than 1 ohm.



Troubleshooting Flow

1.12 Memory Stick

Symptom: Memory stick not detected

Replace: ***J404***, if damaged
U402



Troubleshooting Flow

1.13 Network & Signal

Symptom: Phone fails radiated (wireless) Go/NoGo test

Z901, Z902, Z903, if damaged

Replace: **J901**, if the resistance between pin1 and 2 is higher than 1 ohm.



2 Revision History

Rev.	Date	Changes / Comments
1	2011-Jun-24	Initial release
2	2012-Jan-31	Modify chapter 1.5