



Sony Ericsson

# Troubleshooting Guide

## - electrical -



*Sony Ericsson txt*  
*CK13i*



## CONTENTS

<b>1</b>	<b>Troubleshooting Flow .....</b>	<b>3</b>
1.1	Display .....	3
1.2	Illumination .....	4
1.3	Keys.....	5
1.4	Alert & RTC .....	6
1.5	Audio .....	7
1.6	On/Off .....	8
1.7	Charging & Capacity .....	9
1.8	SIM.....	10
1.9	Camera .....	11
1.10	Data Communication.....	12
1.11	Memory Stick .....	13
1.12	Network & Signal .....	14
<b>2</b>	<b>Revision History .....</b>	<b>15</b>



# 1 Troubleshooting Flow

## 1.1 Display

**Symptom:** Display problem

**Replace:** **J502**, if damaged

**D501, D502, D503, D504**, if short circuit

**U504, U505** or **U506**



## **Troubleshooting Flow**

### **1.2 Illumination**

**Symptom:** No Display illumination

**Replace:** **J502**, if damaged

**Symptom:** No Navi Key LED

**Replace:** **LED707**, if damaged

**D722**, if short circuit

**Symptom:** No Qwertz Key LED

**Replace:** **LED702, LED703, LED704, LED705**, if damaged

**D705, D727**, if short circuit

**Symptom:** No Pre-charge Charge LED

**Replace:** **LED701**, if damaged

**D702**, if short circuit

**Q703**



## Troubleshooting Flow

### 1.3 Keys

**Symptom:** Qwerty Key problems

**Replace:** **D706, D707, D708, D709, D710, D711, D712, D713, D714, D715, D716, D717, D718, D719, D720, D721**, if short circuit

**Symptom:** Volume Up Key problems

**Replace:** **J701**, if damaged  
**D725**, if short circuit

**Symptom:** Volume Down Key problems

**Replace:** **J702**, if damaged



## Troubleshooting Flow

### 1.4 Alert & RTC

**Symptom:** Vibrator problems

**Replace:** **J703**, if damaged  
**Q704**

**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 11W52.**  
**Details refer to SI: 18953-94505 (Tantalum capacitor removal)**



## Troubleshooting Flow

### 1.5 Audio

**Symptom:** No Microphone

**Replace:** **J601**, if damaged  
**D616**, if short circuit

**Symptom:** No or bad Earphone / Ear speaker

**Replace:** **D606** or **D607**, if short circuit

**Symptom:** No or bad Loudspeaker

**Replace:** **D602** or **D603**, if short circuit

**Symptom:** No or bad Hands-free (PHF) Microphone

**Replace:** **J606**, if damaged  
**D609**, if short circuit

**Symptom:** No or bad Hands-free (PHF) Aux Earphone / Ear speaker

**Replace:** **J606**, if damaged  
**D610** or **D611**, if short circuit

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

**Replace:** **J606**, if damaged  
**D608**, if short circuit

**Symptom:** No or bad FM Radio

**Replace:** **J606**, if damaged  
**D612**, if short circuit



## Troubleshooting Flow

### 1.6 On/Off

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

**Replace:** **J402**, if damaged

**D401**, **D402** or **D721**, if short circuit





## Troubleshooting Flow

### 1.7 Charging & Capacity

**Symptom:** No Charging from power outlet

**Replace:** **J402**, if damaged

**D401** or **D402**, if short circuit

**J403**, if damaged, visual check pin 1,5

**D407**, if short circuit

**U401**

**U202**



## Troubleshooting Flow

### 1.8 SIM

**Symptom:** SIM not detected

**Replace:** **J401**, if damaged

**D403, D404, D405, D406**, if short circuit



## Troubleshooting Flow

### 1.9 Camera

**Symptom:** Camera problems

**Replace:** **J501**, if damaged

**RN501**, **RN502** or **RN503**, if damaged

**U507**



## Troubleshooting Flow

### 1.10 Data Communication

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

**Replace:** **J403**, if damaged  
**D409, D410**, if short circuit  
**FL401**

**Symptom:** No or bad Bluetooth and WLAN connection

**Replace:** **J1001**, if damaged



## Troubleshooting Flow

### 1.11 Memory Stick

**Symptom:** Memory Card (micro SD) not detected

**Replace:** **J405**, if damaged, visual check all pins

**D411, D412, D413, D414, D415 or D416**, if short circuit

**D408**, if short circuit

**U403**



## **Troubleshooting Flow**

### **1.12 Network & Signal**

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

**Replace:** **Z901**, **Z903**, if damaged

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



## 2 Revision History

Rev.	Date	Changes / Comments
1	2011-Sept-09	Initial release
2	2011-Jan-31	Update Chapter 1.4