

# Service Repair Documentation

## Level 2.5 light – C75



Release	Date	Department	Notes to change
1.0	08.06.2005	ICM MP CCQ GRM T	New document

## **Introduction**

This Service Repair Documentation is intended to carry out repairs on Siemens repair level 2.5 light. The described failures shall be repaired in Siemens authorized local workshops only,

The level 2.5 (former Level 2.5e) partners are obliged to repair level 2 classified boards, up to their repair level, under consideration of the information given by level 2.5 (former level 2.5e) repair instruction.

All repairs have to be carried out in an ESD protected environment and with ESD protected equipment/tools. For all activities the international ESD regulations have to be considered.

Assembling/disassembling has to be done according to the latest C75 Level 2 repair documentation. It has to be ensured that every repaired mobile Phone is checked according to the latest released General Test Instruction document (both documents are available in the Technical Support section of the C-market).

Check at least weekly C-market for updates and consider all C75 related Customer Care Information

C75 Partnumber on IMEI label: S30880-S6970-#xxx

, while # may be any letter (A-Z) and xxx may be any number from 100, 101, 102....

**Scrap Handling: All Scrap information given in this manual are related to the SCRAP-Rules and instructions.**

**Attention: Consider the new "LEAD-FREE" soldering rules (available in the communication market), avoid excessive heat.**

If you have any questions regarding the repair procedures or technical questions spare not hesitate to contact our technical support team in Kamp-Lintfort, Germany:

Tel.: +49 2842 95 4666

Fax: +49 2842 95 4302

E-mail: st-support@siemens.com

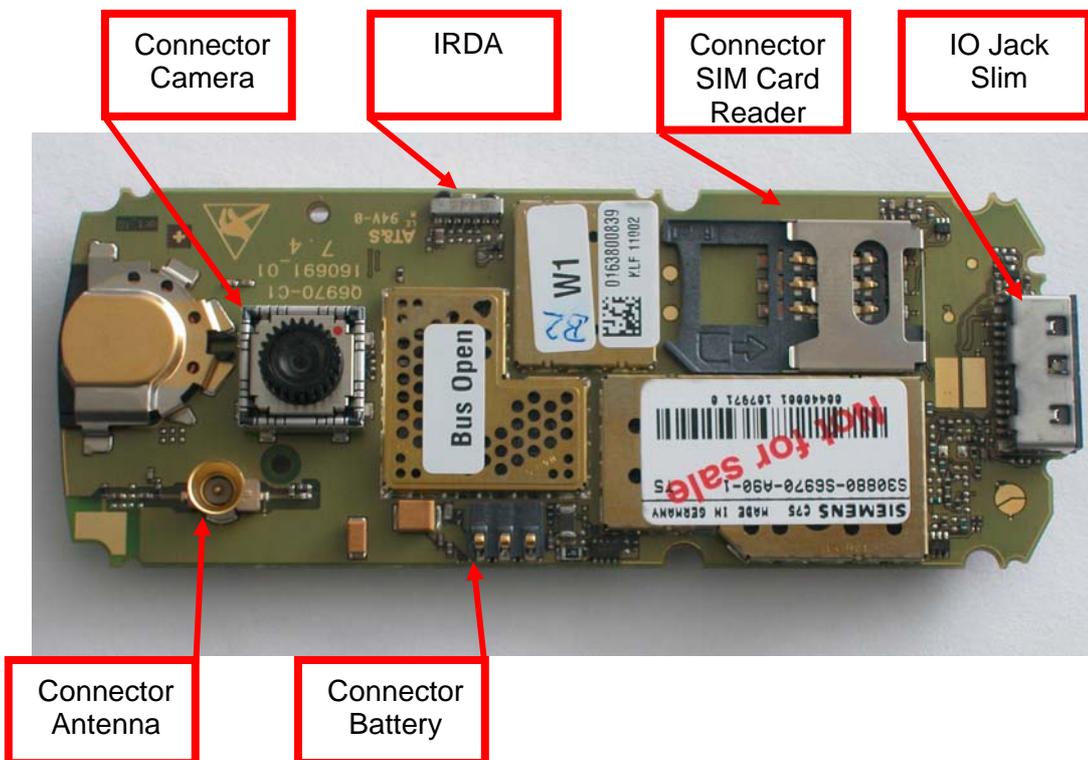
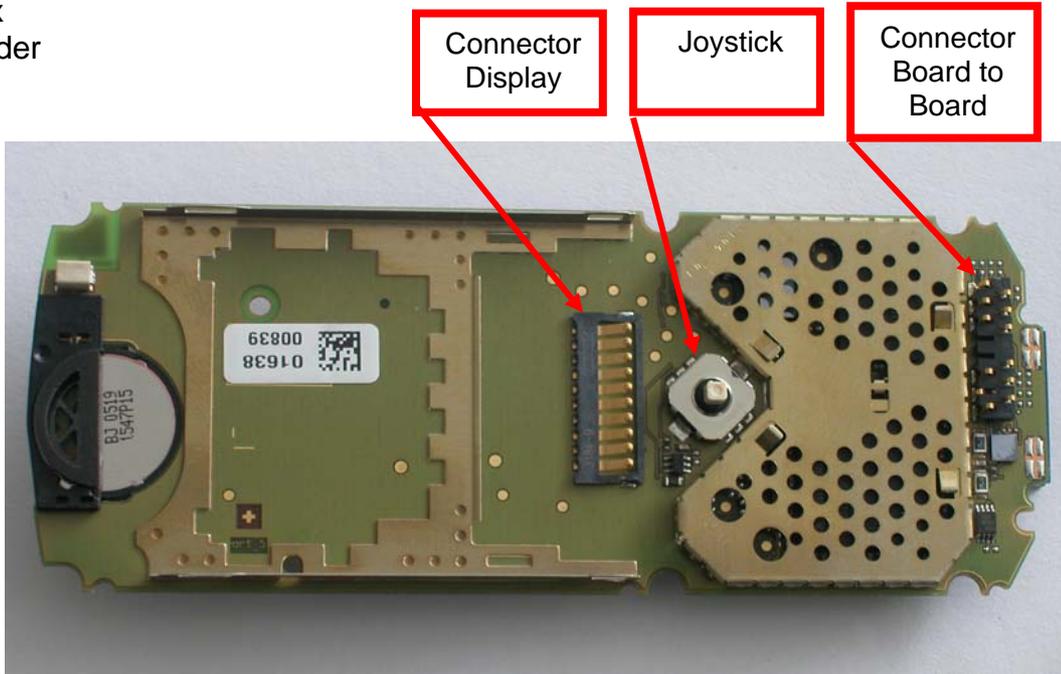
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## 1 C75 board layout

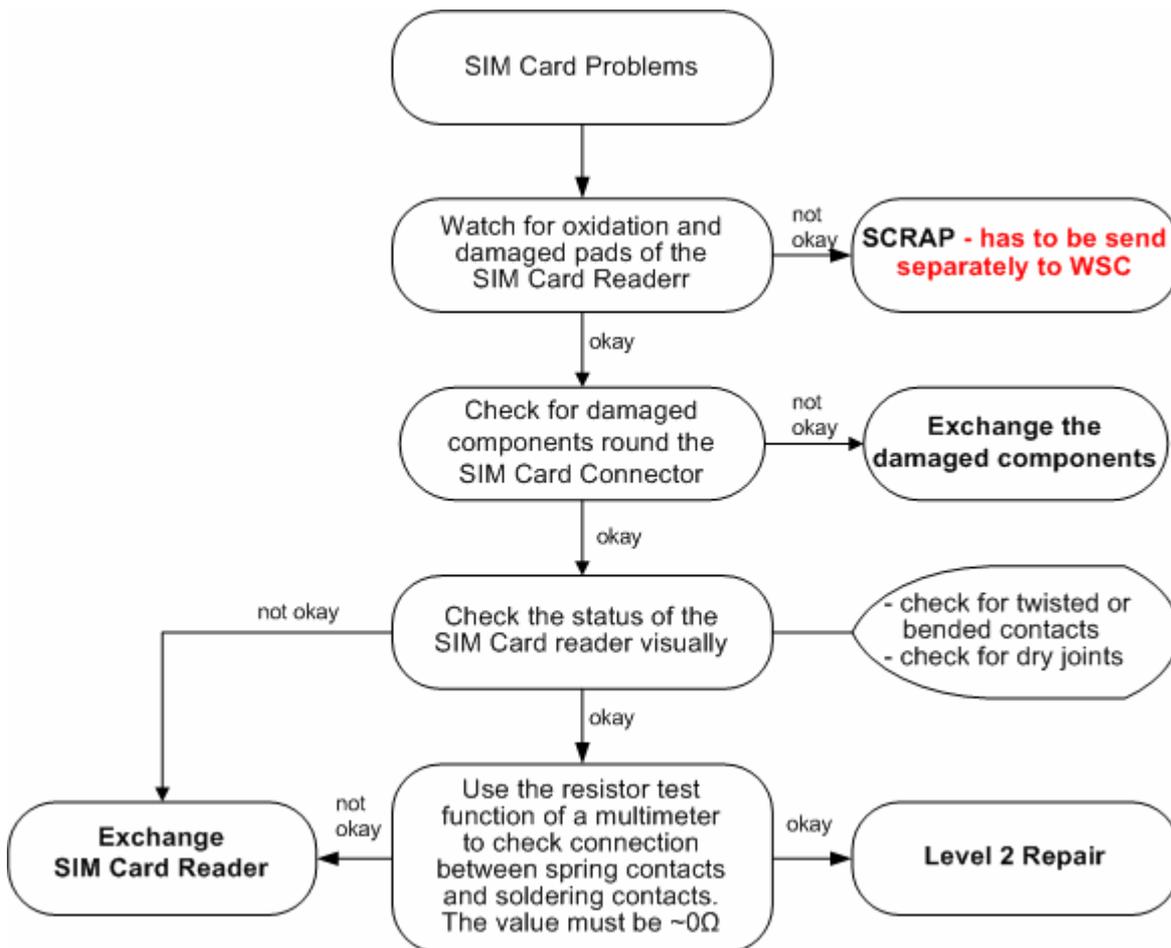
Jigs, Tools and working materials for all described repairs:

- hot air blower
- soldering gun
- tweezers
- flux
- solder



**2 Connector SIM Card Reader**

<b>Fault Symptoms</b>	
Customer: Handset does not accept SIM card	GRT: SIM Card Problems



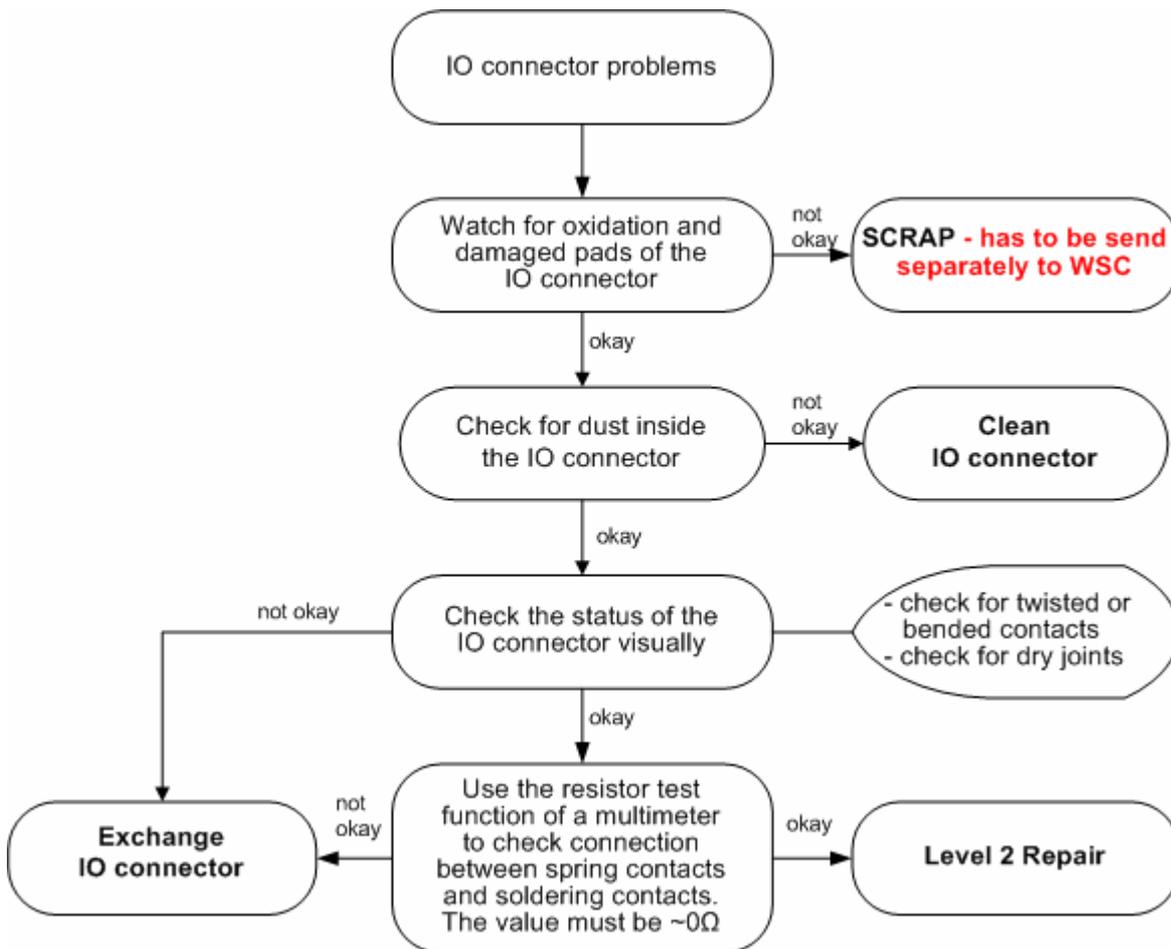
**Connector SIM Card Reader**

Use soldering iron to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L50634-Z97-C406  
 E-commerce order name: CONNECTOR SIM CARD READER R65 (B)  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 43300 Interface/SIM Card reader/Mechanical Damage

### 3 Connector IO Jack

Fault Symptoms	
Customer: Charging Problems Problems with external loudspeaker or microphone when using a car kit Problems with accessories connected at the IO connector	GRT: No connection to GRT Tbd.



#### Connector IO Jack

Use soldering iron to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L36334-Z93-C303  
 E-commerce order name: IO-JACK SLIM 12-POL  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 46100 Interface/Charging Connector/Mechanical Damage  
 47300 Interface/Data Interface/Mechanical Damage  
 4B100 Interface/Headset Connector/Mechanical Damage

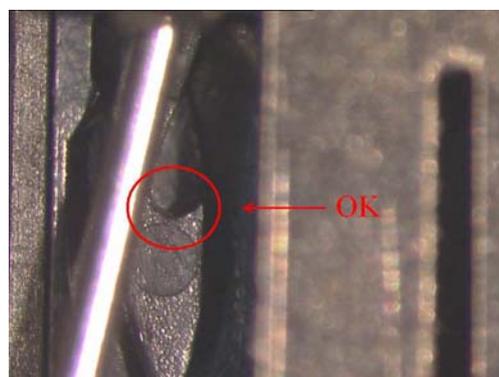
## **Important additional soldering hints**

The MMC Reader is located on the opposite of the SLIM-Lumberg connector. Therefore the risk to damage the plastic material of this MMC-Reader is potentially high if excessive heat is used while removal or soldering of the SLIM-Lumberg connector.

Please follow these instructions:

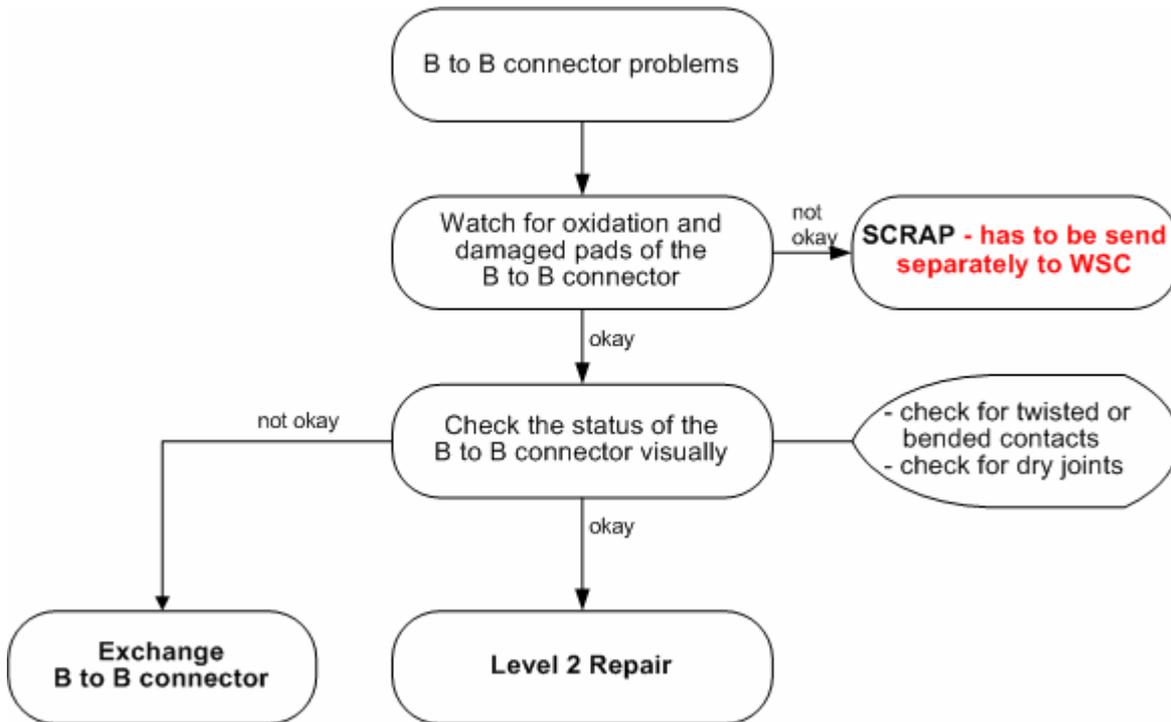
- a) Remove the SLIM-Lumberg connector with a soldering iron and Desolder Wick
- b) Clean the Pads afterwards
- c) Solder the new connector by using soldering iron under consideration of the max. allowed temperature range.

### **Samples of critical area:**



**4 Connector Board to Board**

Fault Symptoms	
Customer: Keyboard malfunction Keypad illumination does not work	GRT: Keyboard malfunction Tbd.



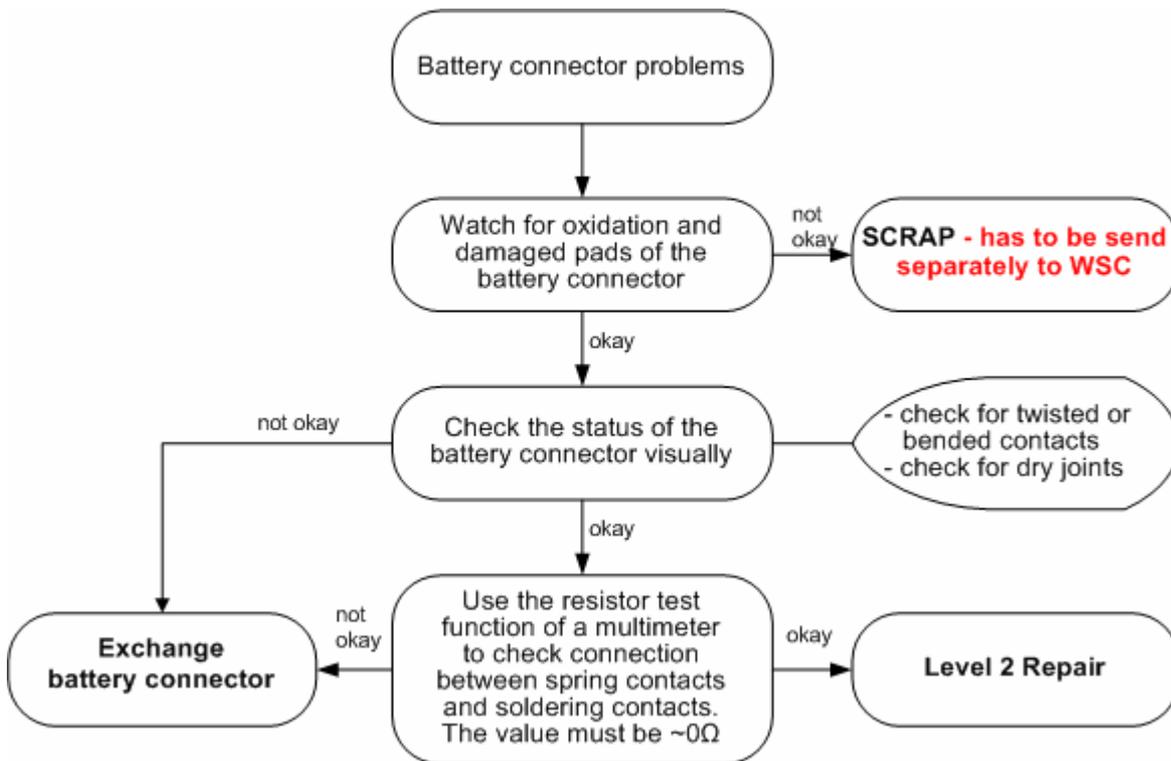
**Connector Board to Board**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L50634-Z97-C383  
 E-commerce order name: CONNECTOR BOARD TO BOARD 12-POL. X75  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 32100 Keys / Main / No Function  
 32200 Keys / Main / Reduced Functionality  
 36000 Keys / Illumination

**5 Connector Battery**

Fault Symptoms	
Customer: Mobile does not switch on	GRT: No connection to GRT



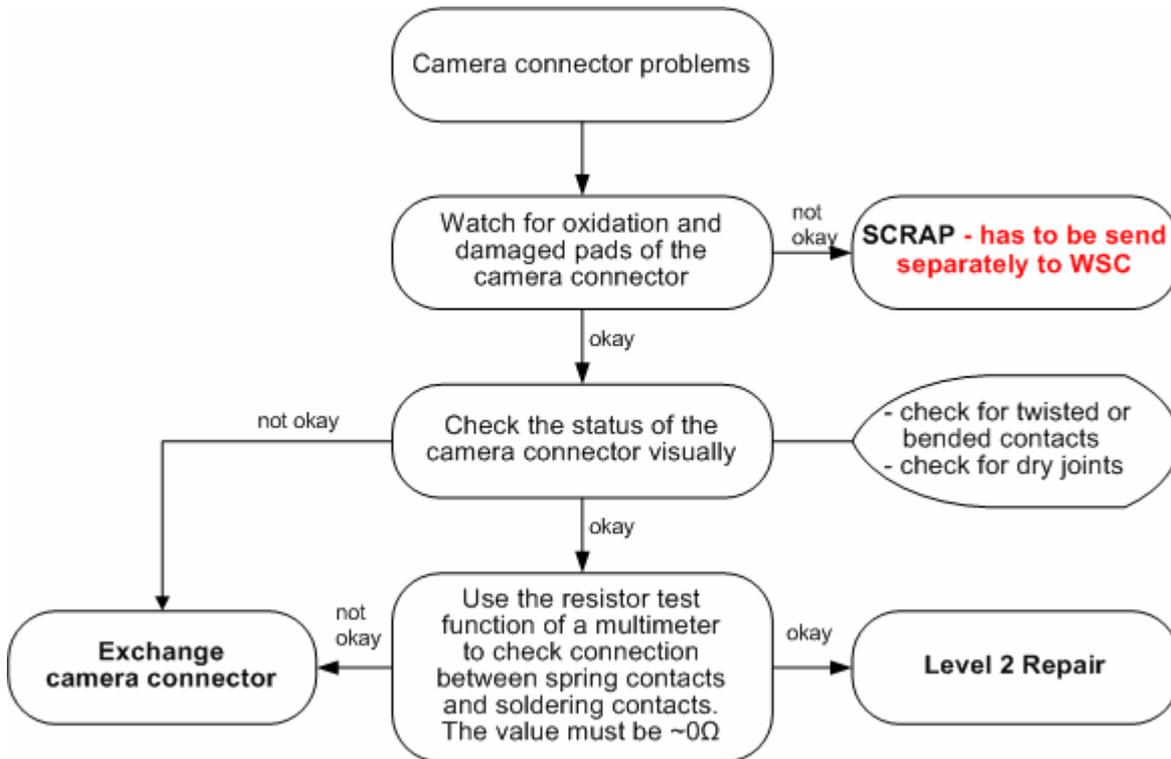
**Connector BATTERY**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L36334-Z97-C336  
 E-commerce order name: CONNECTOR BATTERY 3-POL R65  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 13000 Battery/Mechanical Damage

**6 Connector Camera**

<b>Fault Symptoms</b>	
Customer: Camera malfunction	GRT: Tbd.



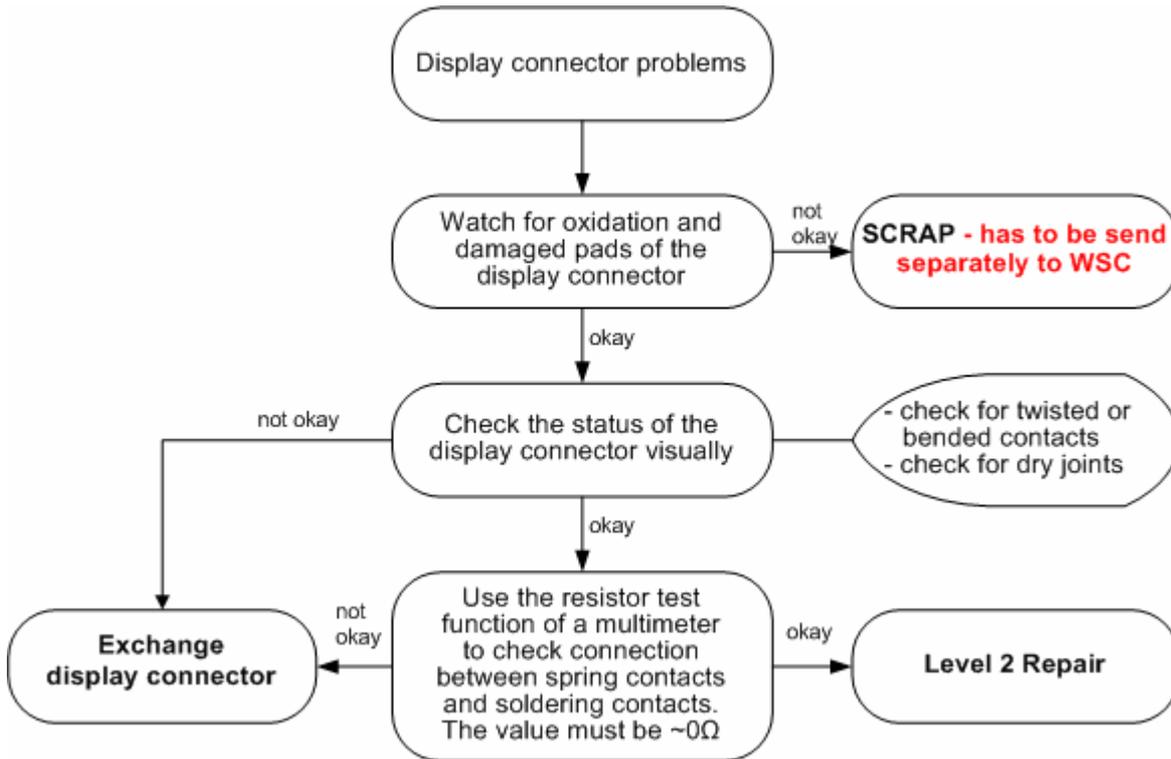
**Connector CAMERA**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L50634-Z97-C379  
 E-commerce order name: CONNECTOR CAMERA-SOCKET  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: BA000 Accessories / Camera

**7 Connector Display**

Fault Symptoms	
Customer: Display problems, like missing lines or columns on the LCD or display contrast problems or illumination problems	GRT: Display problems



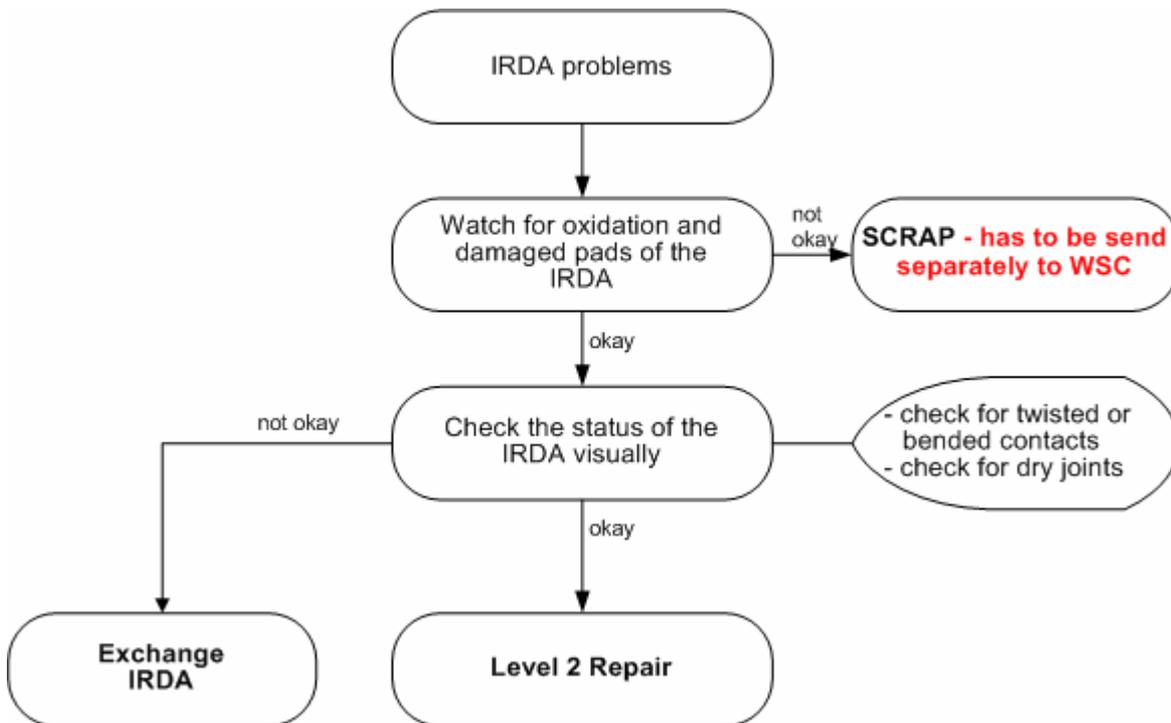
**Connector DISPLAY**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L36334-Z97-C205  
 E-commerce order name: CONNECTOR DISPLAY 10POL  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 21000 Display / Performance  
 22000 Display / Background Illumination

**8 IRDA**

Fault Symptoms	
Customer: No infrared connection possible	GRT: Tbd.



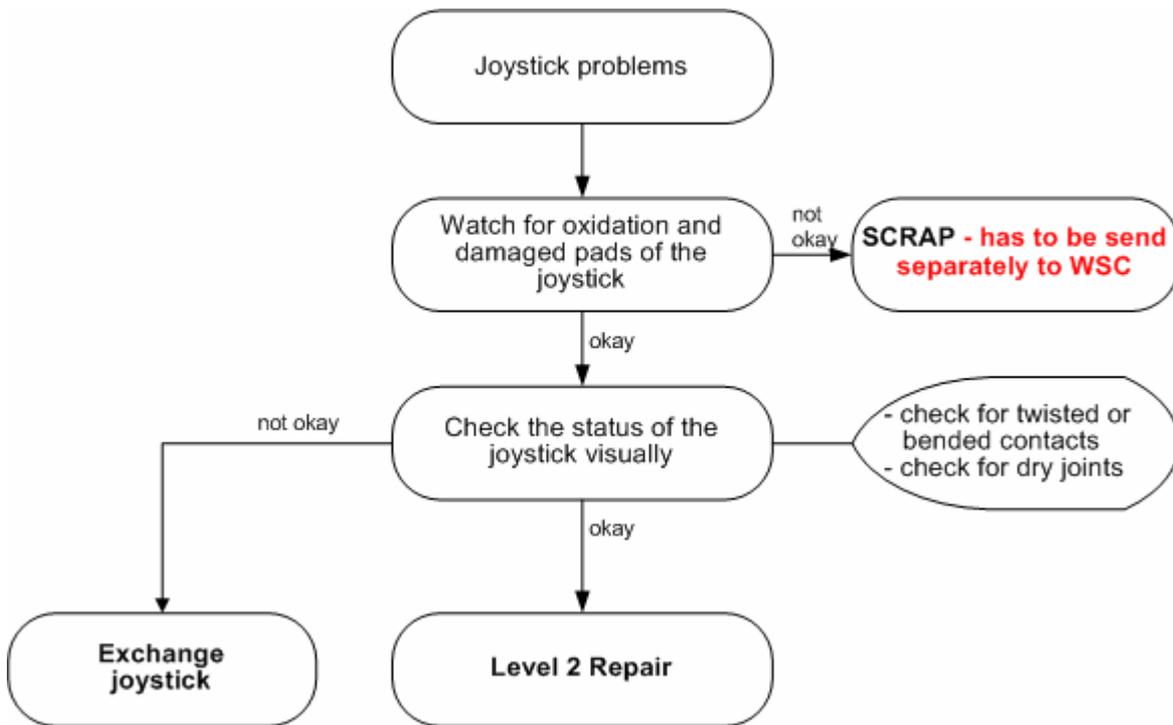
**IRDA**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L36197-F5008-F492  
 E-commerce order name: IRDA 115.2 KBIT  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 41100 Interfaces / IRDA / No Function  
 41300 Interfaces / IRDA / Mechanical Damage

**9 JOYSTICK**

<b>Fault Symptoms</b>	
Customer: Joystick malfunction	GRT: Tbd.



**Joystick**

Use hot air blower to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: L36315-Z77-C218  
 E-commerce order name: JOYSTICK  
 Soldering temperature: ~ 360°C TIP Temp.  
 IRIS Diagnose Code: 32100 Keys / Main / No Function  
 32200 Keys / Main / Reduced Functionality