

Service Repair Documentation Level 3 (Basic) – ME75



Release	Date	Department	Notes to change
R 1.0	13.10.2005	BenQ Mobile CC S CES	New document

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1 Introduction

1.1 Purpose

This Service Repair Documentation is intended to support Service partners to carry out repairs on BenQ repair level 3. The described failures shall only be repaired in BenQ authorized local workshops.

The level 3 (former Level 2.5light) partners are obliged to repair level 3 classified boards, up to their repair level, under consideration of this 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 ME75 Level 1-2 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 ME75 related Customer Care Information

ME75 Partnumber on IMEI label: S30880-S6980-#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.

1.2 Scope

This document is the reference document for all BenQ mobile authorised Service Partners which are released to repair BenQ mobile phones up to level 2.5 light.

1.3 Terms and Abbreviations

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2 List of available level 2.5light parts

(according to Component Matrix V1.09 - check C-market for updates)

Product	ID	Order Number	Description CM
ME75	S2931	L36315-Z77-C218	JOYSTICK
ME75	V2650	L36197-F5008-F492	IRDA 115.2 KBIT
ME75	X1400	L36334-Z97-C336	CONNECTOR BATTERY 3-POL R65
ME75	X1504	L36334-Z93-C303	IO-JACK SLIM 12-POL
ME75	X1604	L50634-Z97-C406	CONNECTOR SIM CARD READER R65 (B)
ME75	X2202	L36334-Z97-C205	CONNECTOR DISPLAY 10POL
ME75	X2705	L50634-Z97-C383	CONNECTOR BOARD TO BOARD 12-POL. X75
ME75	X3651	L50634-Z97-C379	CONNECTOR CAMERA-SOCKET
ME75	X3800	L36334-Z93-C297	CONNECTOR ANTENNA 6mm

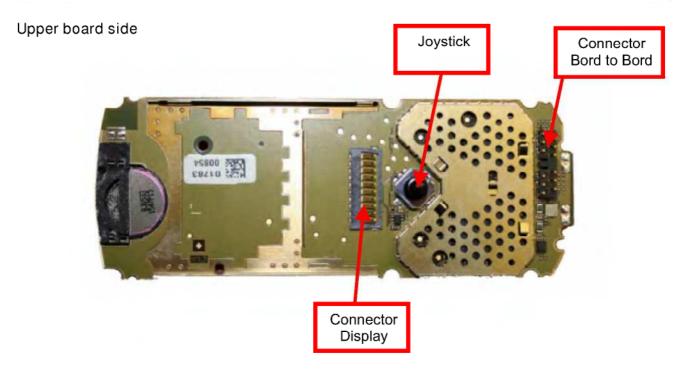
3 Hardware requirements

(according to L2.5L-L2.5 General soldering information V1.3 - check C-market for updates)

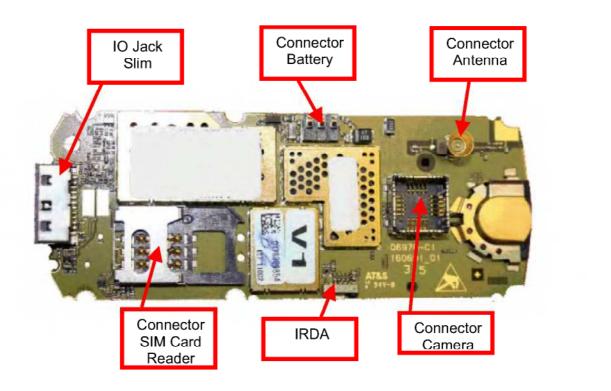
Jigs, Tools and working materials for all described repairs:

- hot air blower
- soldering gun
- tweezers
- flux
- solder
- ME75 dome sheet jig

4 ME75 Board layout



Lower board side



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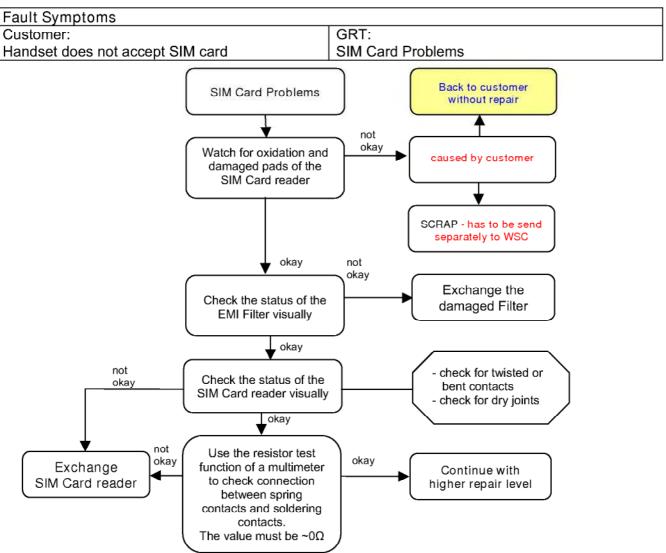
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5 SIM Card Problems



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

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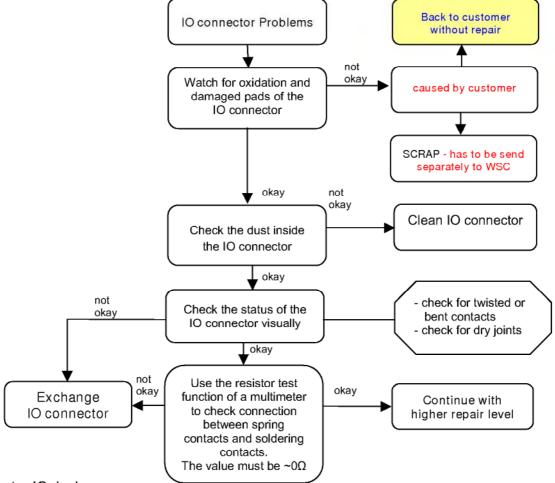
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6 IO Connector Problems

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



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

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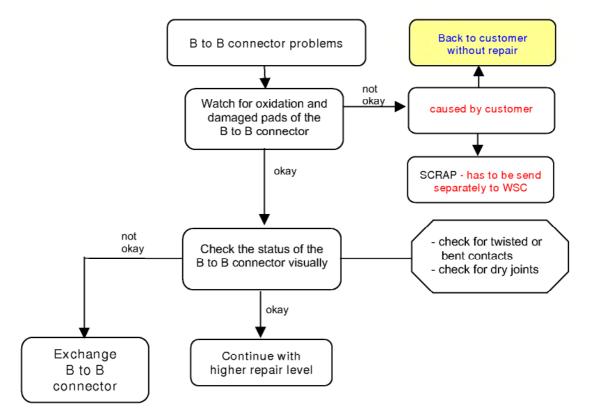


7 B to B connector Problems

Fault Symptoms

Customer:
Upper slider keyboard malfunction
Upper slider keypad illumination does not work
Display problems

GRT:
Keyboard malfunction
Current measured failed



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-C340

E-commerce order name: BOARD TO BOARD 30-POL

Soldering temperature: ~ 360°C TIP Temp.

IRIS Diagnose Code: 32100 Keys / Main / No Function

32200 Keys / Main / Reduced Functionality

36000 Keys / Illumination

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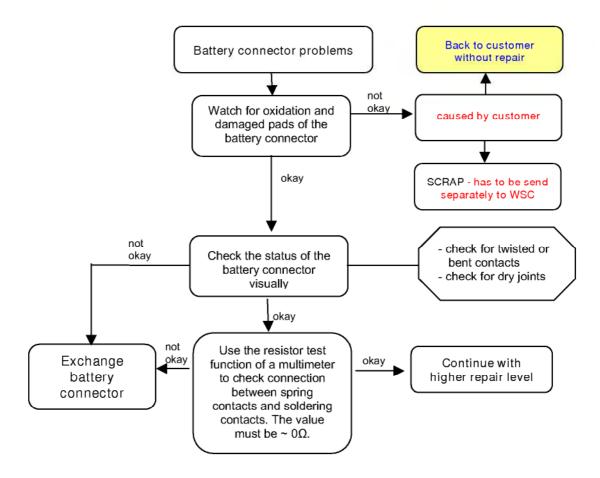
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8 Battery connector Problems

Fault Symptoms	
Customer:	GRT:
Mobile does not switch on	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-C213

E-commerce order name: CONNECTOR BATTERY 3-POL

Soldering temperature: ~ 360°C TIP Temp.

IRIS Diagnose Code: 13000 Battery/Mechanical Damage

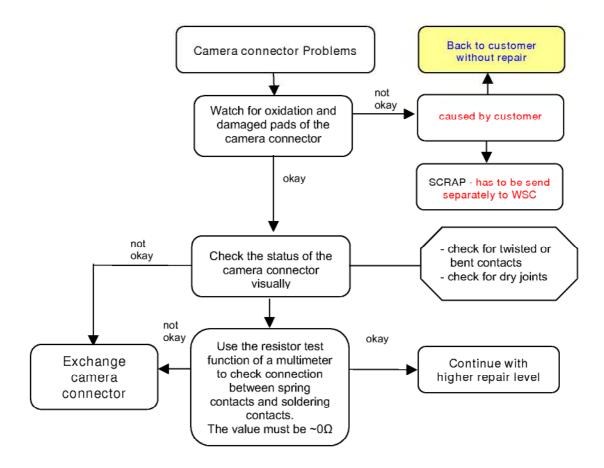
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9 Camera Connector Problems

Fault Symptoms	
Customer: GRT:	
Camera malfunction	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.

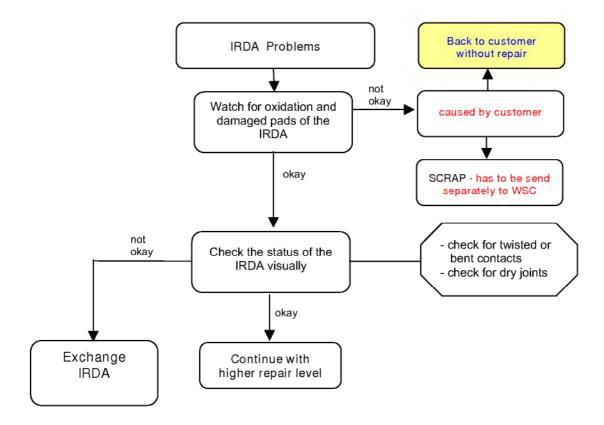
IRIS Diagnose Code: BA000 Accessories / Camera

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10 IRDA Problems

Fault Symptoms		
Customer: GRT:		
No infrared connection possible	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

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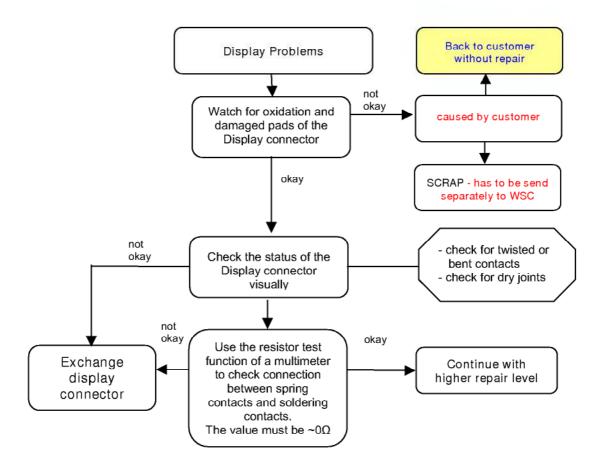
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11 Display Problems

Fault Symptoms	
Customer:	GRT:
Display problems	Current measured failed



Connector DISPLAY

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

E-commerce order number: L50634-Z97-C380

E-commerce order name: CONNECTOR DISPLAY 20POL

Soldering temperature: ~ 360°C TIP Temp.

IRIS Diagnose Code: 21000 Display / Performance

22000 Display / Background Illumination

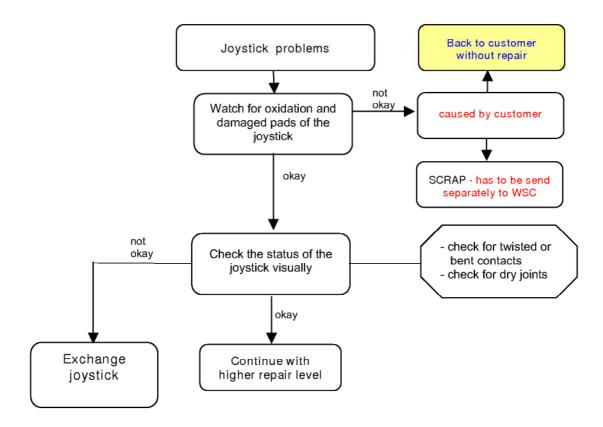
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12 Joystick Problems

Fault Symptoms		
Customer:	GRT:	
Joystick malfunction	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

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