

Siemens

Service Repair Documentation Level 2.5 - CX65 - CX70(E) - M65(R)



Release	Date	Department	Notes to change
1.0	10.05.2004	ICM MP CCQ GRM T	New document
1.1	03.06.2004	ICM MP CCQ GRM T	Changes in procedure
1.2	10.09.2004	ICM MP CCQ GRM T	Document modified
1.3	10.03.2004	COM MD CC GRM T	M65R added

Introduction

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

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 CX65 – M65 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 CX65 – M65 related Customer Care Information

CX65	Partnumber on IMEI label:	S30880-S7100-#xxx
CX70	Partnumber on IMEI label:	S30880-S7103-#xxx
CX70E	Partnumber on IMEI label:	S30880-S7160-#xxx
M65	Partnumber on IMEI label:	S30880-S7150-#xxx
M65R	Partnumber on IMEI label:	S30880-S7170-#xxx

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

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@klf.siemens.de

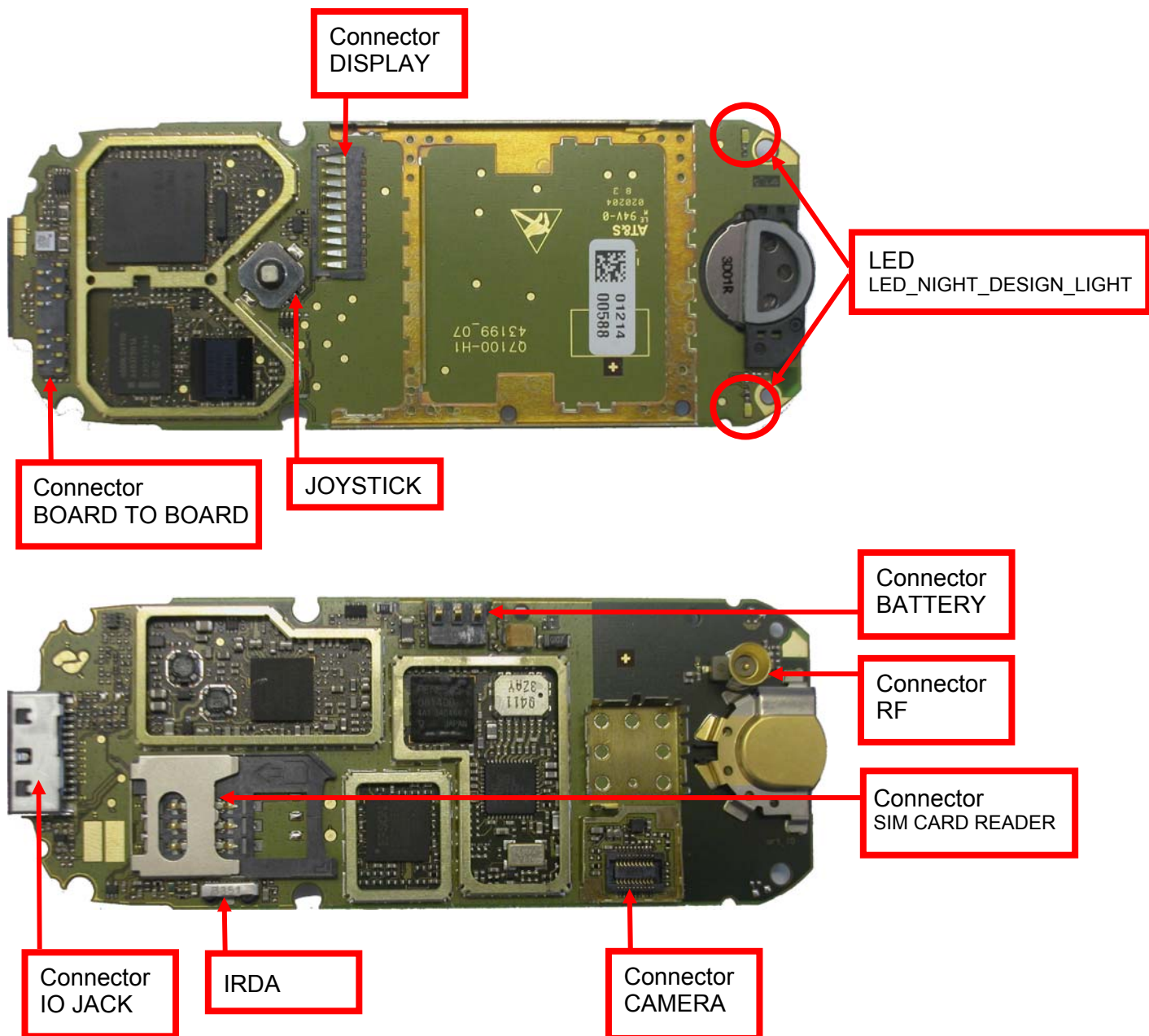
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1 CX65, CX70, CX70E, M65, M65R board layout

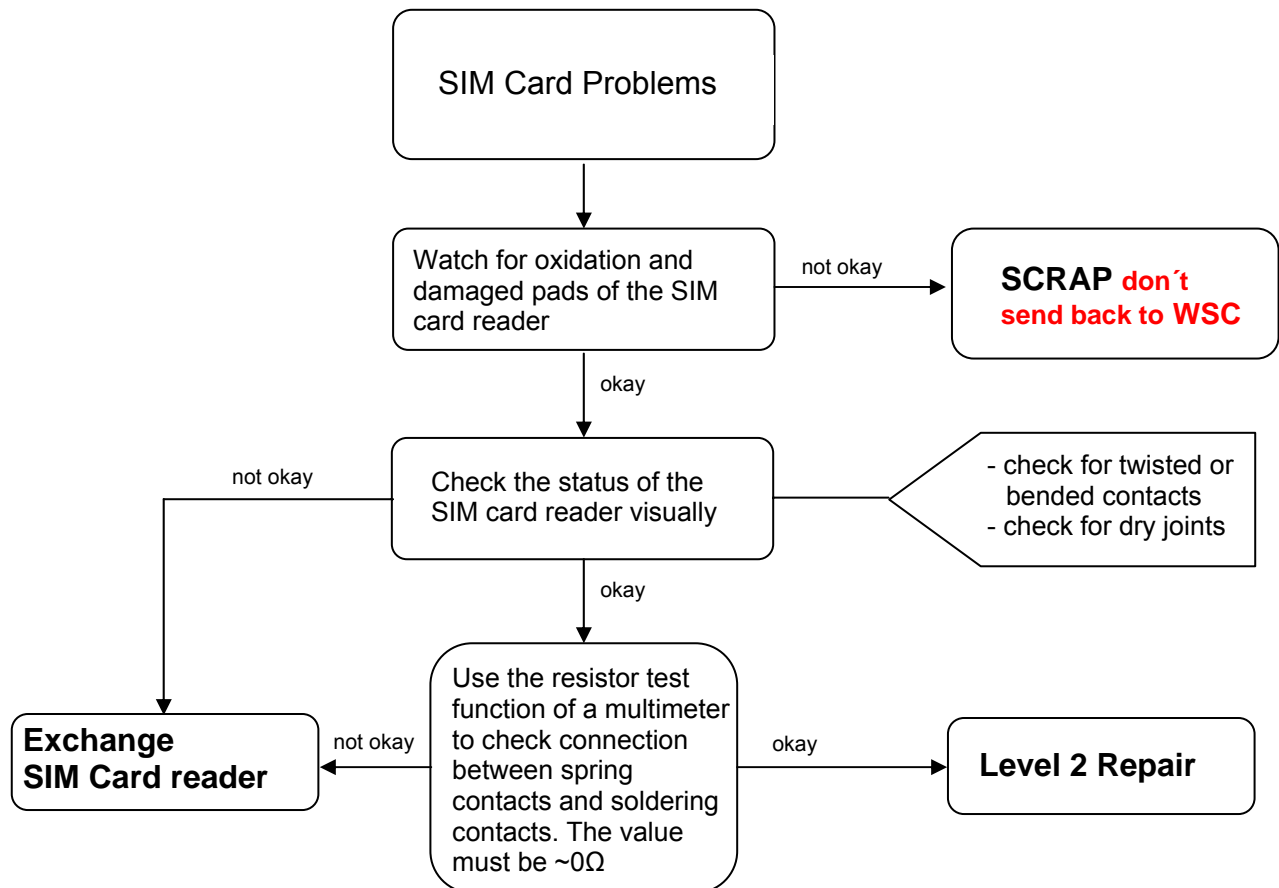
Jigs, Tools and Working materials for all described repairs:

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



2 Connector SIM Card Reader

Fault Symptoms	
Customer: Handset does not accept SIM card	GRT: SIM Card Problems



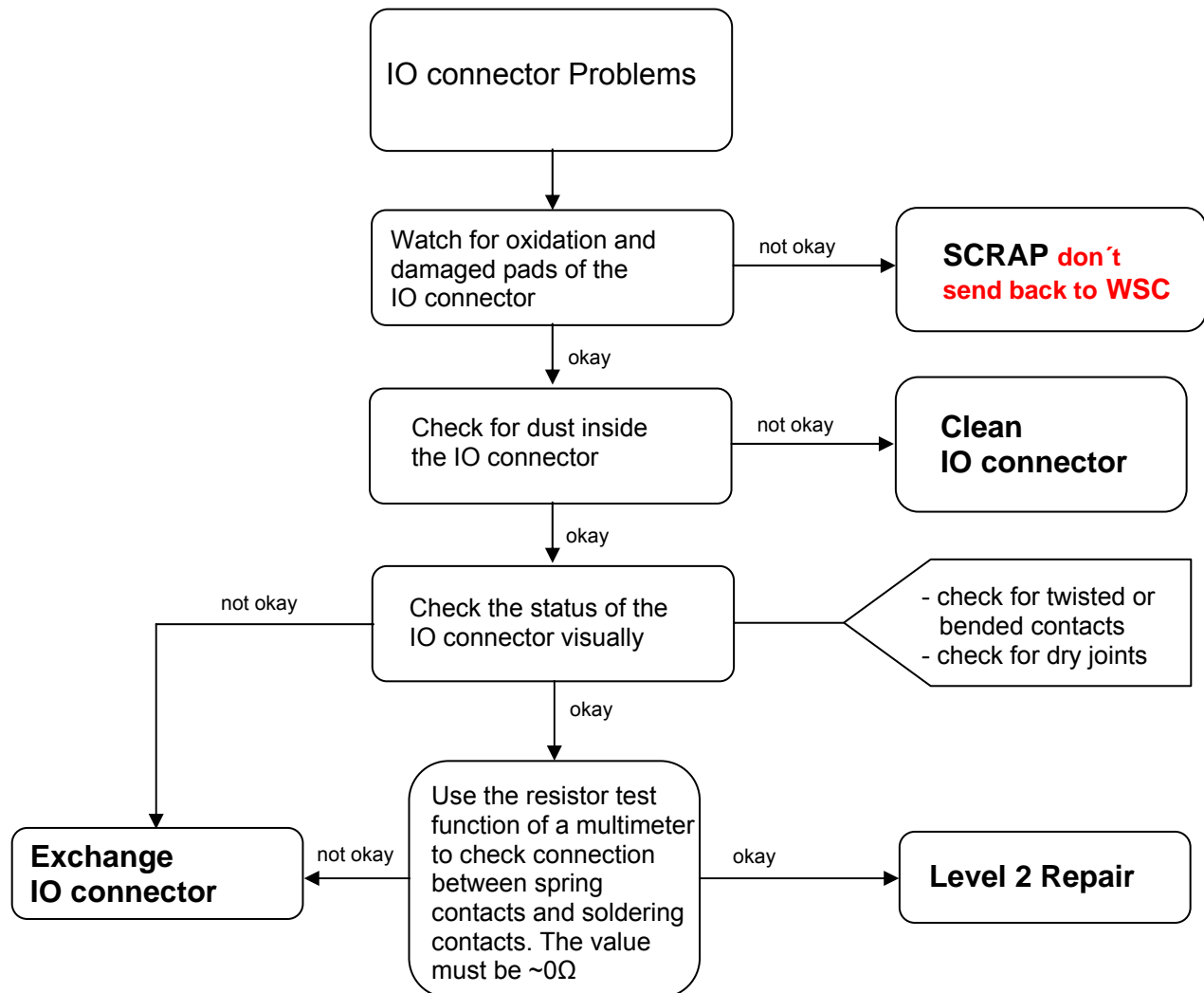
Connector SIM Card Reader

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

E-commerce order number: L36334-Z97-C335
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 43300 Interface/SIM Cardreader/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.



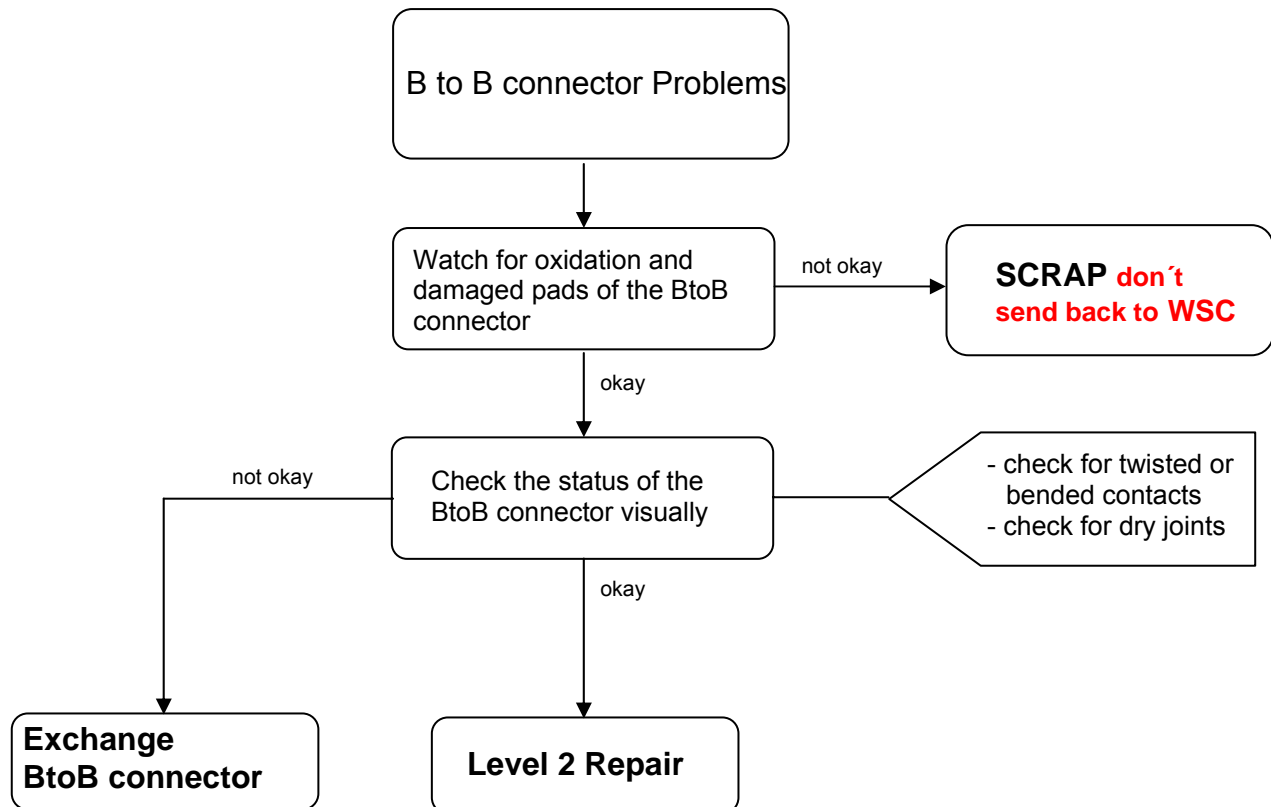
Connector IO Jack

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

E-commerce order number: L36334-Z93-C303
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 46100 Interface/Charging Connector/Mechanical Damage
 47300 Interface/Data Interface/Mechanical Damage
 4B100 Interface/Headset Connector/Mechanical Damage

4 Connector Board to Board

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



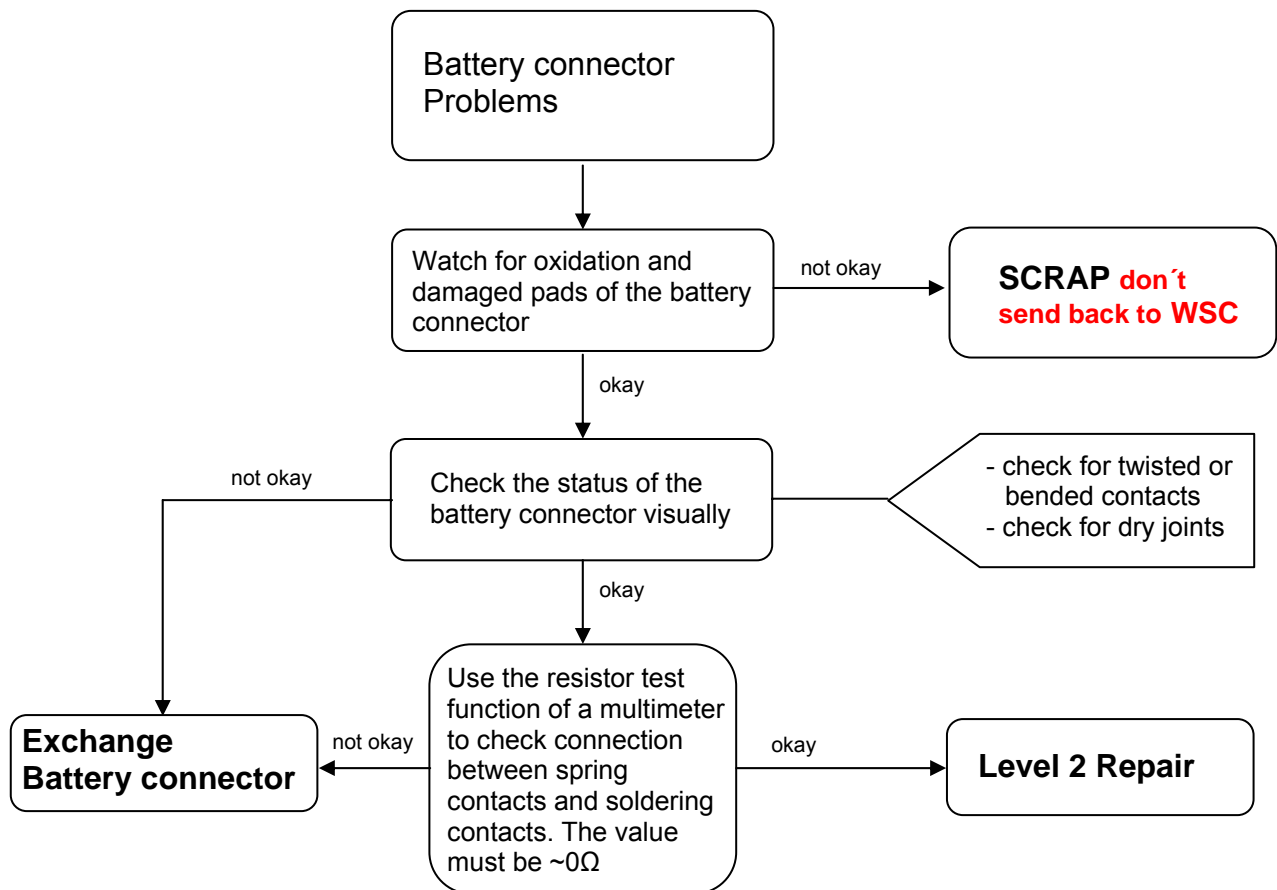
Connector Board to Board

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

E-commerce order number: L36334-Z97-C162
 Soldering temperature: 240 - 255°C
 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



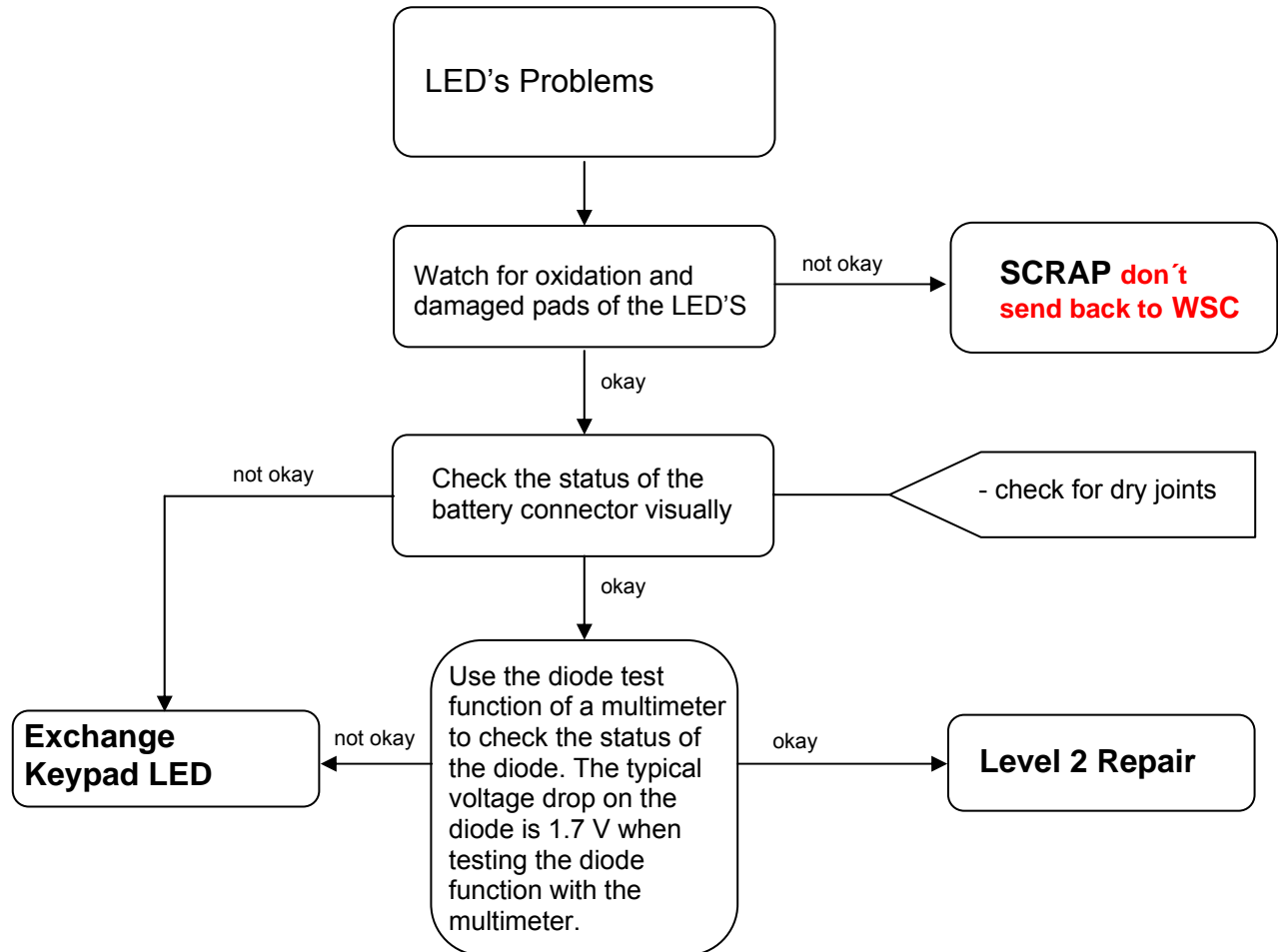
Connector BATTERY

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
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 13000 Battery/Mechanical Damage

6 LED_Night_Design_Light

Fault Symptoms	
Customer: NIGHT_DESIGN_LIGHT illumination does not work	GRT: Tbd.



LED Night_Design_Light

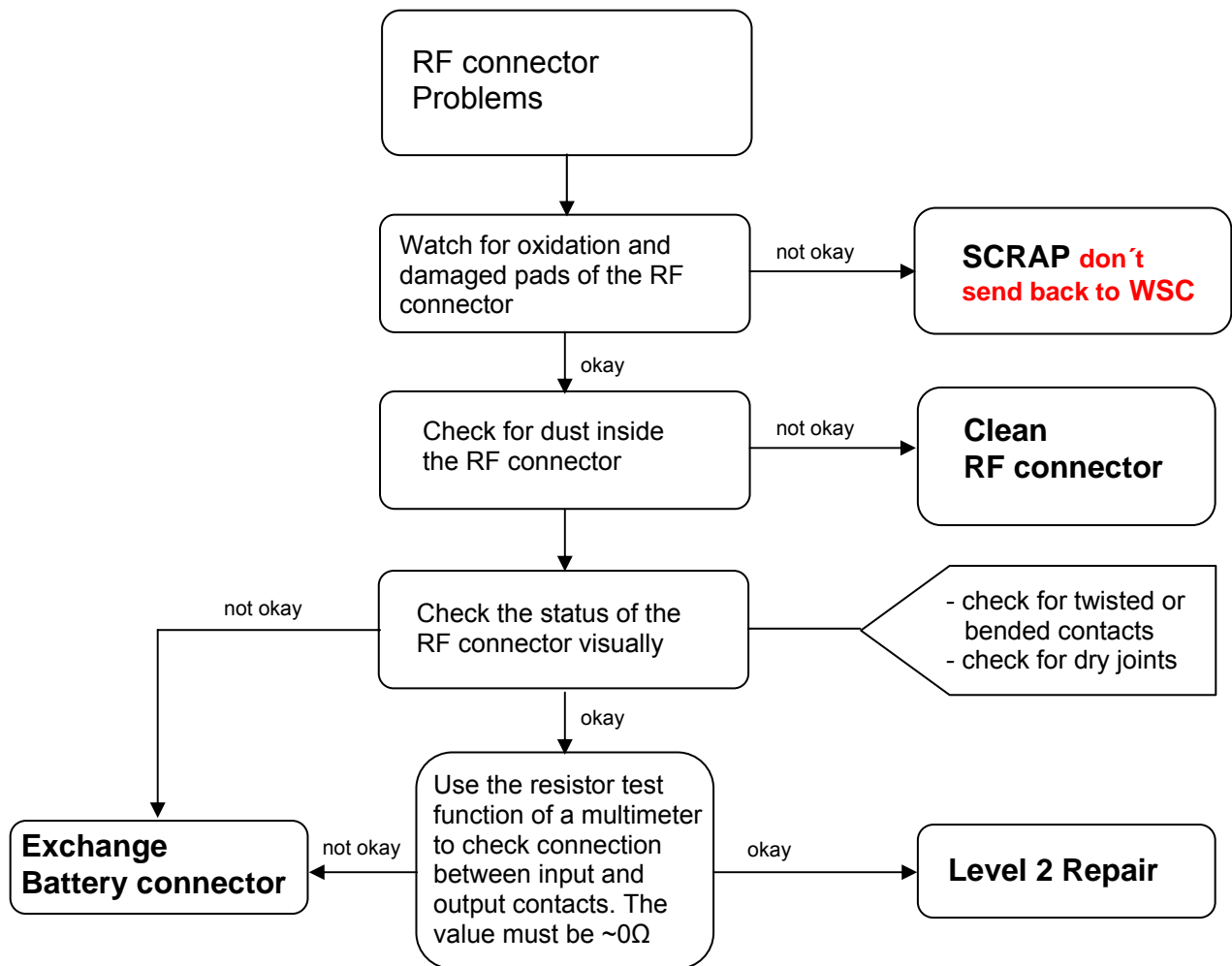
Use soldering iron to remove defective component. Avoid excessive heat! Watch surrounding components! Resolder new component afterwards.

E-commerce order number: CX65, CX70: L36840-L2099-D670
 M65: L59840-L2102-D670
 M65R: L36197-F5005-F782

Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 22000 Display / Background Illumination

Connector RF

Fault Symptoms	
Customer: Network search No location update possible	GRT: Failure by TX/RX measurements No location update possible



Connector RF

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

E-commerce order number: L36334-Z93-C297 (L50334-Z93-C297)

Soldering temperature: 240 - 255°C

IRIS Diagnose Code:

81100 Radio / No Contact / Int. Antenna

82100 Radio / Low Receiving Signal / Int. Antenna

83100 Radio / Dropped Calls / Int. Antenna

84100 Radio / Call Setup / Int. Antenna

81200 Radio / No Contact / Ext. Antenna

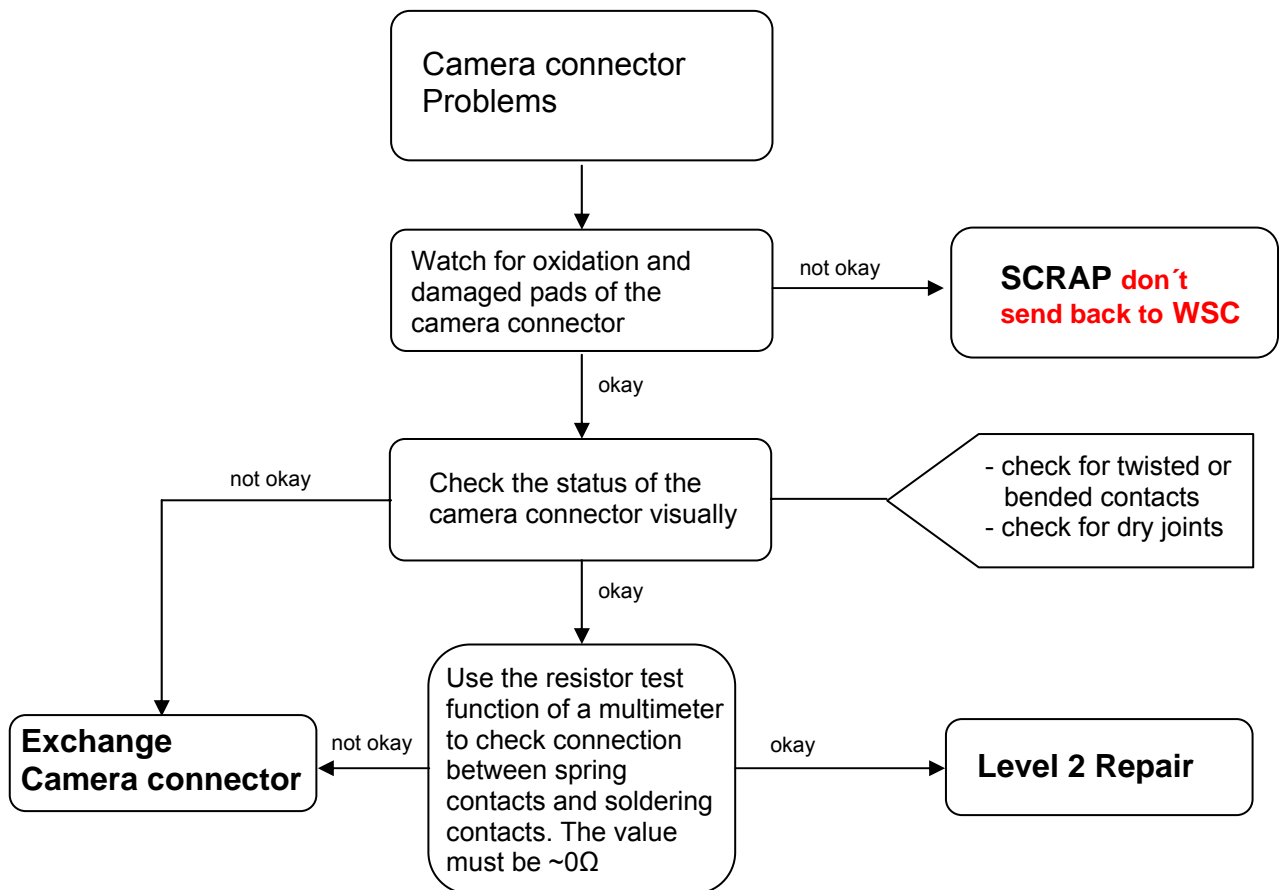
82200 Radio / Low Receiving Signal / Ext. Antenna

83200 Radio / Dropped Calls / Ext. Antenna

84200 Radio / Call Setup / Ext. Antenna

7 Connector Camera

Fault Symptoms	
Customer: Camera malfunction	GRT: Tbd.



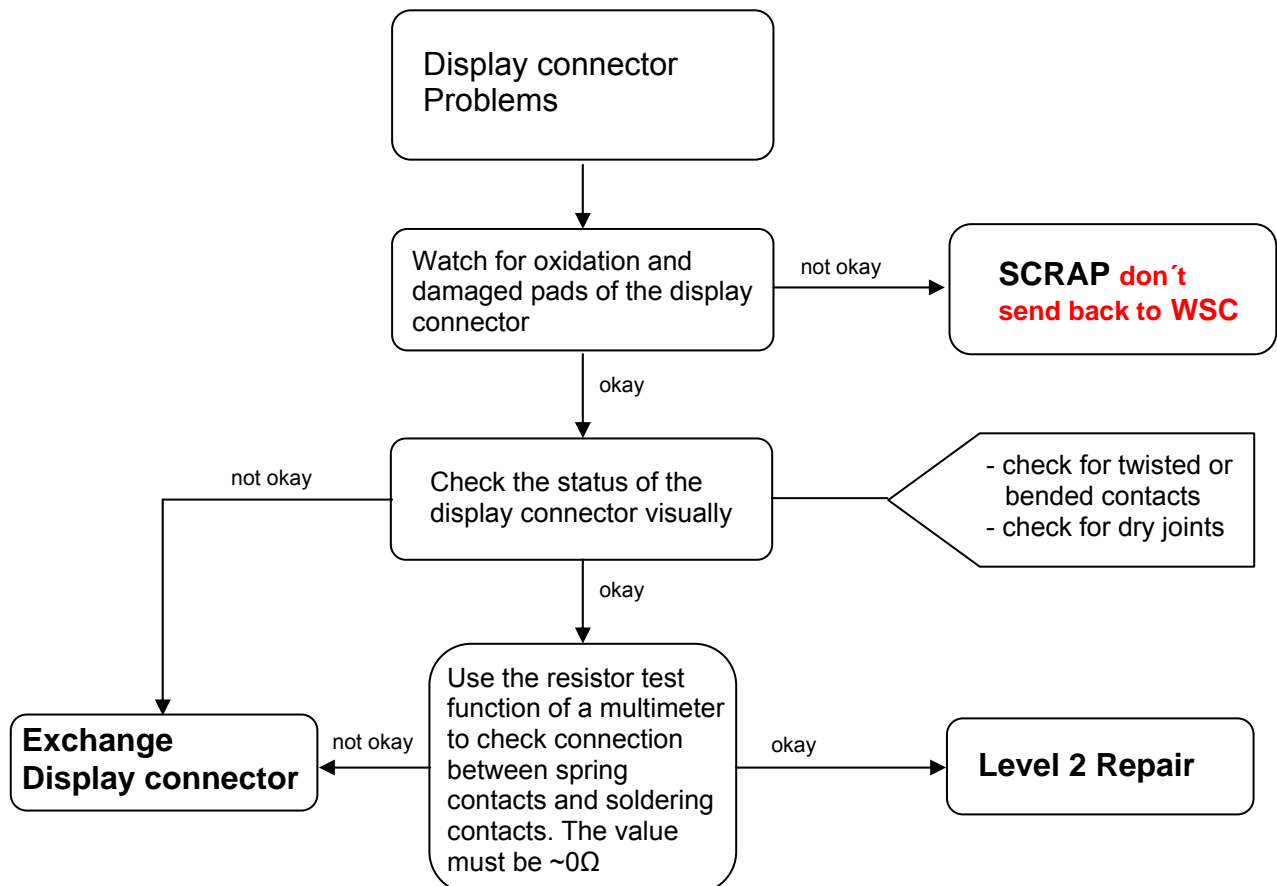
Connector CAMERA

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

E-commerce order number: L36197-F5008-F341
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: BA000 Accessories / Camera

8 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



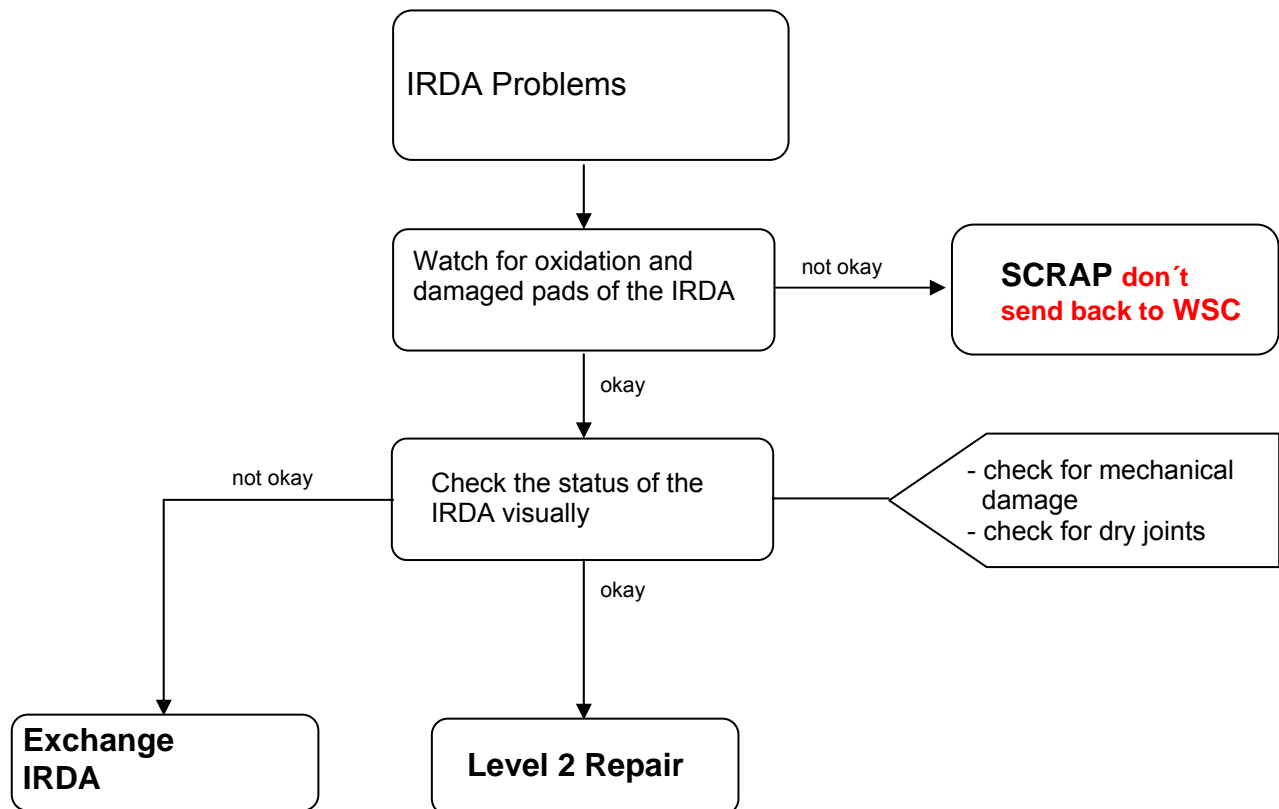
Connector DISPLAY

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
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 21000 Display / Performance
 22000 Display / Background Illumination

9 IRDA

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



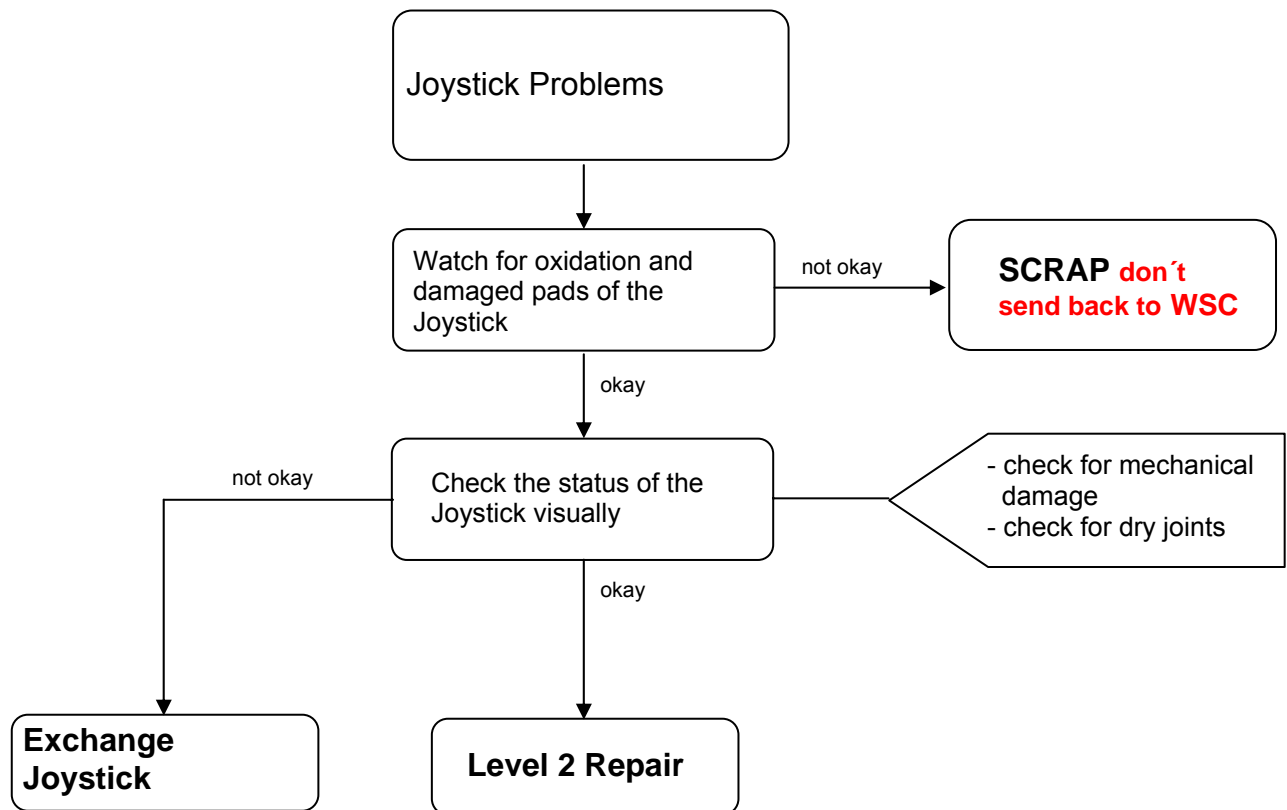
IRDA

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
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 41100 Interfaces / IRDA / No Function
 41300 Interfaces / IRDA / Mechanical Damage

10 JOYSTICK

Fault Symptoms	
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
 Soldering temperature: 240 - 255°C
 IRIS Diagnose Code: 32100 Keys / Main / No Function
 32200 Keys / Main / Reduced Functionality