



Installation Instruction, Electrical

Applicable for V800/ 802se

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1 General

The Electrical Installation Instructions describes the procedures for installing all of the hardware and software needed to perform testing, calibration, software loading and repair activities at an Electrical level for the Sony Ericsson products specified.

NOTE!

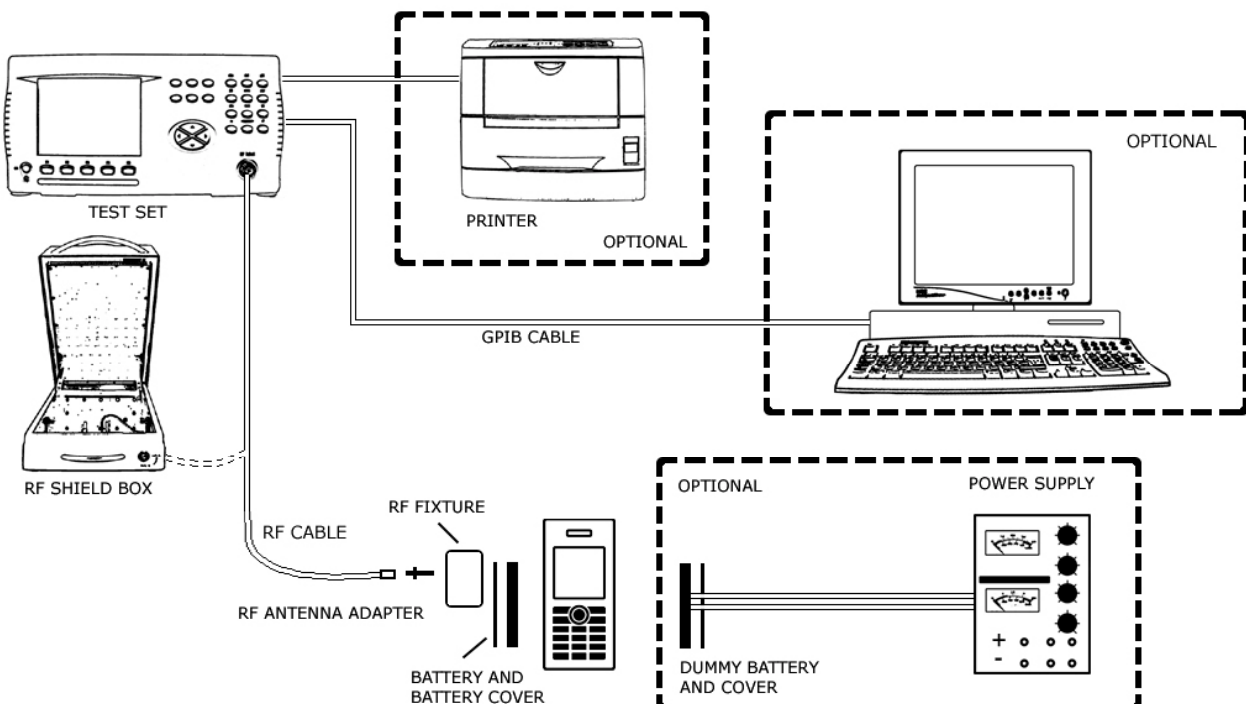
This product is manufactured with lead-free solder. During electrical repair, it is critical to make sure that no lead is introduced into the product. For this reason, certain repair materials and equipment must be designated as lead-free and labelled accordingly. A lead-free work area must be setup that is completely separated from work areas that are used to make leaded repairs. Certain items must be designated for lead-free work only. Some of the items that need to be clearly labelled in this way are listed in the Equipment List Electrical and Working Instruction Electrical. Note that any item that contacts the solder must be labelled and used for lead-free work only.

2 Go/No Go Testing

There are two options for performing a Go No/Go test. One option is to use an RF Fixture and the other is to use an antenna coupler together with a shielding box.

2.1 Test Set-up Go/No Go test

All test hardware necessary for this test set up is documented in the Electrical Equipment List.



2.1.1 Test Set

An E-GSM 900/1800/1900/WCDMA Test Set approved according to the Instrument List must be used.

It should be installed according to the Instrument Manufacturer Instructions.

2.1.2 RF Connections Antenna Coupler

Connect the RF Cable between the RF-port of the Test set and the RF Antenna Coupler. The Antenna Coupler should be installed into the RF Shield Box according to the supplied instructions.

2.1.3 RF Connections Antenna adapter

Connect the RF-cable between the RF-port of the Test set and the RF Antenna adapter. Assemble the RF Antenna adapter to the RF Fixture according to the information in the Test Instruction Electrical.

2.1.4 RF Shield box

The specified RF Shield box according to the Electrical Equipment list shall be used.

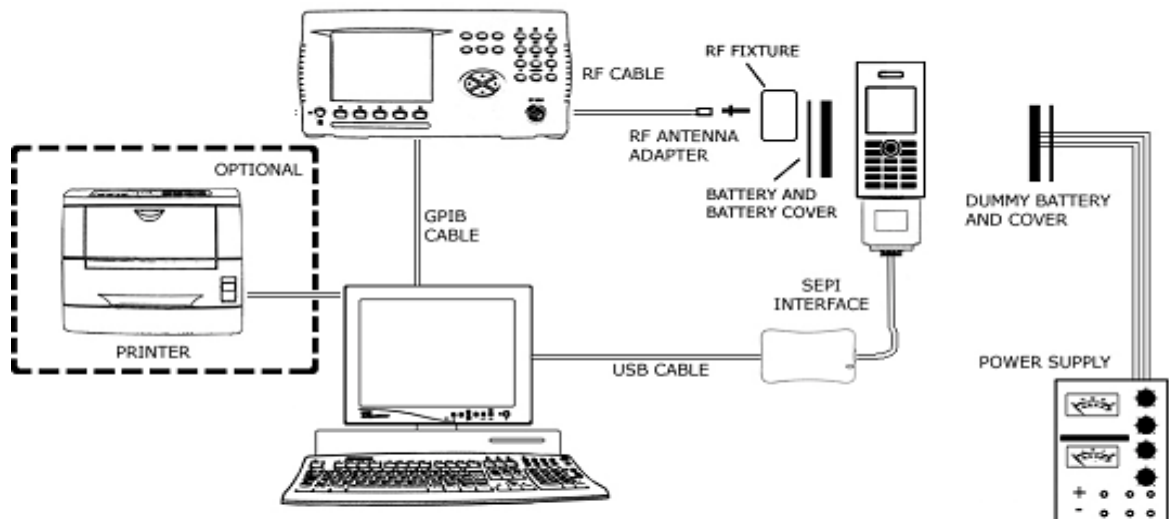
2.1.5 Dummy Battery (Optional)

Dummy battery to be used together with a power supply to power the phone during the Go/No Go testing. Connect the cables from the dummy battery to the power supply, red cable to positive output terminal and black cable to negative output terminal.

3 Calibration

3.1 Test Set-up – SERP (only authorized centres)

All test hardware necessary for this test set up is documented in the Electrical Equipment and Instrument List.



3.1.1 Test Set

A Test Set approved according to the Instrument List must be used. It should be installed according to the Instrument Manufacturer Instructions.

3.1.2 Power Supply

Power Supply according to Instrument List must be used.

3.1.3 GPIB card and cable

Use the GPIB card and cable according to the Equipment List. Use the GPIB cable to connect the GPIB card to the test instrument.



3.1.4 RF Connection

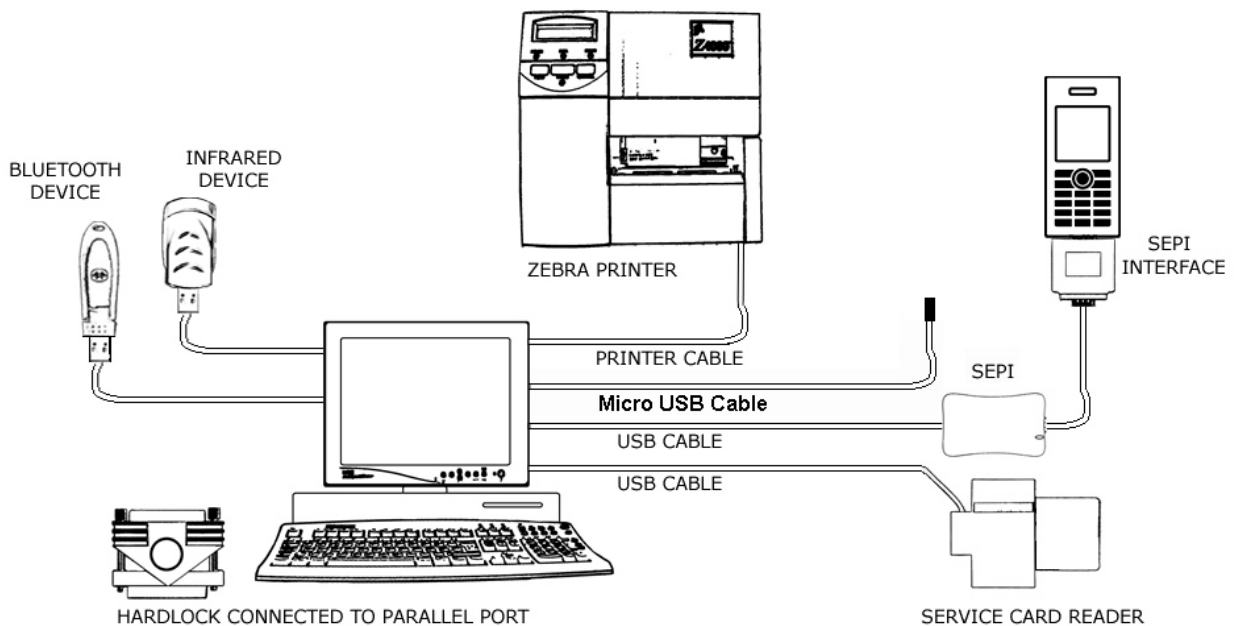
The RF Fixture holder and RF Antenna Adapter according to the Electrical Equipment List shall be used. Connect the RF Antenna Adapter to the RF cable. The RF probe is held on the phone with the RF fixture.

3.1.5 Dummy Battery

Battery Eliminator to be used together with a power supply to power the phone during calibration. Connect the cables from the dummy battery to the power supply, red cable to positive output terminal and black cable to negative output terminal.

4 General Equipment

4.1 Test set up



4.1.1 Computer

IBM compatible computer is required. The computer should include at least two USB-ports. Refer to Equipment List for minimum requirements.

4.1.2 Hardlock

Hardlock with article number KRY 105 165 is required. The Hardlock should be connected to the parallel port.

4.1.3 Service Card Reader and Service Card

The Service Card Reader is delivered with the necessary software and instructions for installation. The Service Card Reader should be connected to an USB-port on the computer.



4.1.4 SonyEricsson programming interface – SEPI

The USB programming interface is delivered with the necessary software and instruction for installation. The USB programming interface should be connected to an USB-port on the computer.

4.1.5 SonyEricsson programming interface – Cable

The cable is the interface between the USB programming interface and the phone.

4.1.6 USB PC cable

The A-B Plug-Plug cable is the interface between the computer and the USB interface. Connect the cable between the USB programming interface and the computer.

4.1.7 Label Printer (optional)

A Zebra printer model 90xi, 90xiII, 110xiIIIPlus, 170xiIII or 4000 deluxe shall be used and it shall be set to 300 dpi. Connect the printer with a standard RS 232 serial printer cable [refer to the Zebra printer manual] to the serial port on the computer. Read the Zebra installation manual for more information about the installation.

4.1.8 Infrared Device

An RS 232 or USB type infrared adapter may be used. Install according to the manufactures instructions.

4.1.9 Bluetooth Device

Any Bluetooth device as headset, other Bluetooth phone or other Bluetooth device can be used to verify the Bluetooth function in the phone. Set up the connection according to the chosen equipments manufacture.

4.1.10 Micro USB cable

A micro USB cable (RPM 131 102) is used to verify the USB connector in the phone. Connect the USB cable in one of the USB connectors on the PC and the other end of the cable in to the phone.

5 Software

5.1 EMMA II

EMMA II contains all software required to service the product. Installation and user manuals are available in the EMMA II start page.

<http://emma.extranet.sonyericsson.com>

5.2 Labelmake software (optional)

LabelMake II is an application installed through Java Web Start.

Access the Labelmake software from [CSPN](#) Web page.

You will find LabelMake II in the dropdown menu on the CSPN web page.

<http://cspn.extranet.sonyericsson.com>

Press “START LabelMake II” button and you will be directed to the LABELMAKE II client page.

Product labels are downloaded on-line from a remote server database.

5.3 Go/No Go Test Script

An approved Sony Ericsson Test Script must be installed in the Test Instrument. The Willtek 4202 script can be downloaded from [CSPN](#). The Test Script is located on [CSPN](#) under **Repair Instructions / Standard**.

<http://cspn.extranet.sonyericsson.com>

Install the Test Script according to the Instrument Manufacture’s Instruction.

A combined GSM/WCDMA Test script for Yokogawa VC-200 will be available when instrument is launched. Until that the GSM part must be tested in the Willtek 4202. The WCDMA part shall be tested using the Yokogawa VC-100. Refer to Go/No Go Test script specification.

5.4 SERP (only authorized centres)

Download the latest revision of SERP application from [CSPN](#). This application is located under **Repair Instructions/Standard/SERP Install package**

<http://cspn.extranet.sonyericsson.com>

Unzip the file and open the Installation instructions.

Follow the Install instructions to install SERP.

6 Revision History

Rev.	Date	Changes / Comments
A	2004-11-30	First Release
B	2004	Due to system problem
C	2004-12-30	Updated chapter 5.2 Labelmake Software