

Installation Instruction, Electrical

Applicable for W302 and S302

Contents

1	General.....	2
2	Go/No Go Testing.....	2
2.1	Test Set-Up Go/No Go test.....	2
2.2	Test Set	3
2.3	RF Connections Antenna Coupler	3
2.4	RF Connections Probe (optional)	3
3	Software Loading	4
3.1	Set up	4
3.2	Computer	4
3.3	USB Activation Dongle.....	4
3.4	Sony Ericsson programming cable – DCU-60	4
4	Software	5
4.1	EMMA.....	5
4.2	SERP Go/No Go Test Script	5
5	Lead-Free Electrical Repair.....	6
6	Revision History	8

1 General

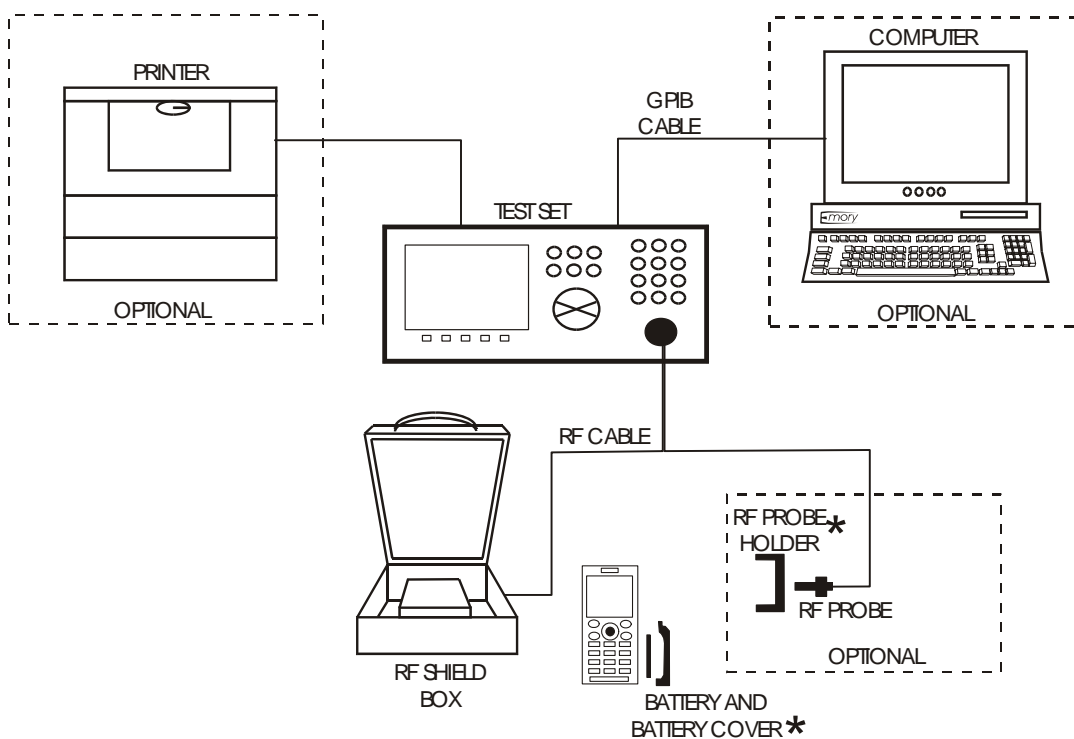
The Electrical Installation Instructions describe the procedures for installing all of the hardware and software needed to perform testing at an Electrical level for the Sony Ericsson products specified.

2 Go/No Go Testing

There are two options for performing a Go No/Go test. One is to use an RF Probe and cable, 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 Mechanical or Electrical Equipment Lists.



* The RF Probe Holder and the Battery Cover may not be used for every product. See the Installation Instructions and Test Instructions for details.



2.2 Test Set

A Quad Band GSM 850/900/1800/1900 Test Set approved according to the Electrical Equipment List must be used.

It should be installed according to the Instrument Manufacturer's Instructions.

2.3 RF Connections Antenna Coupler

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

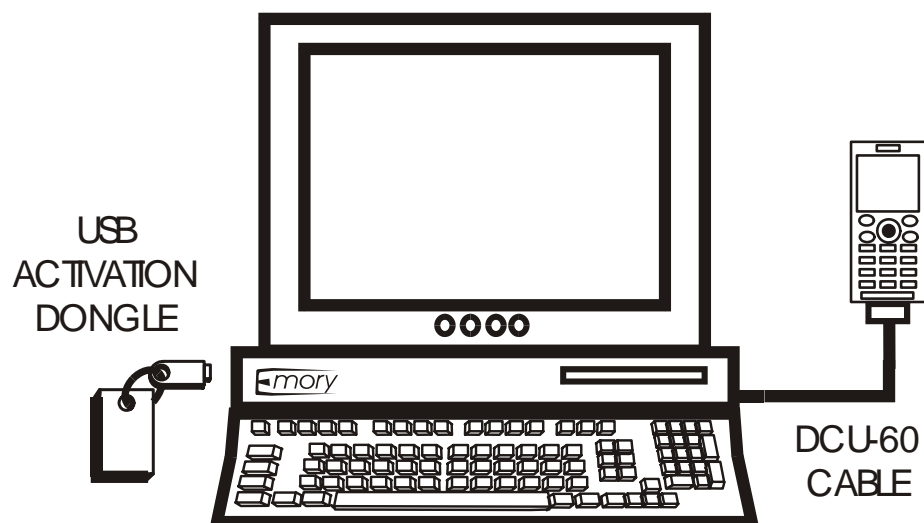
2.4 RF Connections Probe (optional)

Connect the RF-cable between the RF-port of the Test set and the RF Probe. Attach the RF Probe to the phone according to the information in the Test Instruction Electrical.

3 Software Loading

3.1 Set up

General Test set up to perform SW loading. All necessary hardware for this test set up is documented in the Mechanical or Electrical Equipment list.



3.2 Computer

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

3.3 USB Activation Dongle

A USB Activation Dongle is required for activation in EMMA. The USB Activation Dongle should be connected to a USB-port on the computer. Refer to the EMMA Homepage available from CSPN, for installation instructions.

3.4 Sony Ericsson programming cable – DCU-60

The cable is the interface between the computer and the phone. The DCU-60 cable should be connected to a USB-port on the computer.



4 Software

4.1 EMMA

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

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

4.2 SERP Go/No Go Test Script

SERP stands for “**S**ony **E**ricsson **R**epair **P**latform”. It is an application used for testing, calibrating and repairing Sony Ericsson mobile phones.

Download the latest revision of the SERP application from CSPN.

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

This application is located in the dropdown menu

Repair Instructions-Electrical/SERP application

1. Unzip the file and open the file “Release Notes and Installation Guide” for installation instructions.
2. After SERP is installed a file titled “SERPINFO.htm” will be placed on the Windows Desktop. This file contains numerous documents including:
 - SERP Users Manual – This document contains detailed operating and fault reporting instructions.
 - R&S Grid plate for SERP – This document contains an overview and ordering information for the Rhode & Schwarz Grid Plate used with the Rhode & Schwarz coupler. Also there is a list of supported SEMC handsets and mounting positions.
 - SERP Release Notes and Installation Guide – This document contains system requirements, release notes and an Installation Guide.

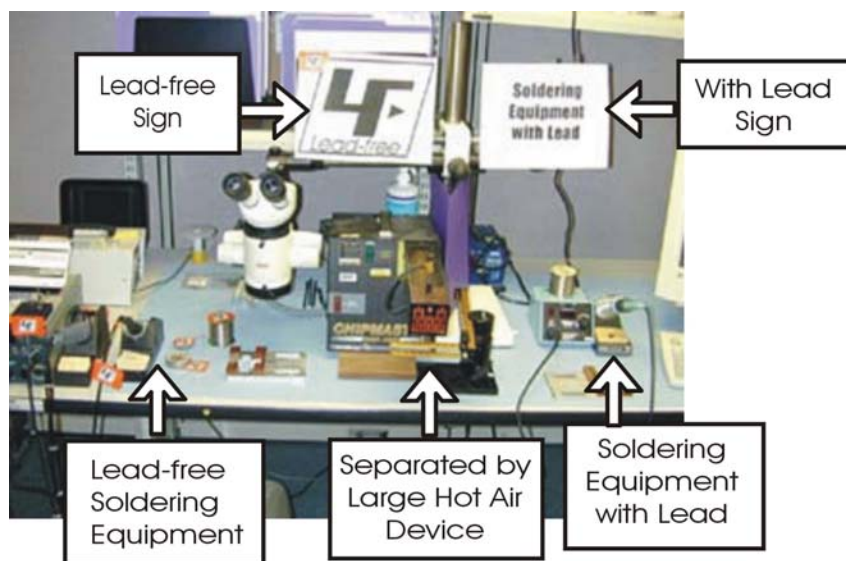
5 Lead-Free Electrical Repair

This product is manufactured with lead-free solder and lead-free components. 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. The lead-free work area must also be clearly labelled as shown in the figure below. 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 table below. Note that any item that contacts the solder must be labelled and used for lead-free work only.

Soldering Tips	Wicking Tape	Tip Cleaner (steel wool)
Solder	Tip Tinner	Soldering Iron



Because of cost and space limitations, some repair centers may not be able to assign a full bench to lead-free repairs. In this case, both lead-free and leaded repair setups can share the same bench, but they must be clearly marked with signs and separated by a physical divider. In the figure below, the large hot air device functions as the divider.



6 Revision History

Rev.	Date	Changes / Comments
1	2008-09-12	First release
2	2008-10-12	Updated due to system error