

# Test Instruction, Electrical

Applicable for W302 and S302

## Contents

<b>1</b>	<b>General.....</b>	<b>2</b>
<b>2</b>	<b>Go/No-Go Test.....</b>	<b>2</b>
2.1	Go/No-Go Test Preparations .....	2
2.2	SERP GNG .....	4
2.3	Stand alone GNG .....	4
<b>3</b>	<b>Revision History .....</b>	<b>5</b>

# 1 General

This document describes the test procedures for the electrical repair package.

## 2 Go/No-Go Test

This test verifies that the radio parameters of a mobile fulfil the GSM / WCDMA specifications. A mobile is considered good if all measurements pass. All results will be presented on the screen and can be printed out if a printer is available.

There are two options available for performing the GNG test, SERP GNG or a Stand alone GNG. The SERP GNG can be downloaded from CSPN as described in Installation Instructions, Electrical (1213-2247). To perform a Stand alone GNG a test script must be written in accordance with the GO/NO GO Test Script Specification, Electrical (1213-2259) located on CSPN.

### 2.1 Go/No-Go Test Preparations

#### 2.1.1 RF Probe (Conducted Test Method)

1. Remove the battery cover according to Working Instructions, Mechanical.
2. Insert a test USIM that is compatible with your Test Instrument and install a fully charged standard battery to the mobile.
3. Install the RF Probe to the RF Cable and attach to the mobile according to the picture.



## **2.1.2 RF Coupler (Radiated Test Method) TBD RTL+6w**

Rohde & Schwarz Coupler with a Grid Positioning plate  
Reference point **M25**

## 2.2 SERP GNG

**NOTE!** For complete and detailed user instructions, see the *SERP Users Manual* located in the *SERPINFO.htm* that gets placed on the Desktop after SERP is installed.

1. On a PC with SERP installed, start the SERP program by double clicking on the **"RepairManager.exe"** icon on the desktop.
2. Click on **"Settings"** in the SERP Window and verify that the test instrument and the GPIB address correspond.
3. Click on the **"Station Setup"** tab and verify that the setting in the **"RF Connection-GoNogo"** Drop down window is correct. Click on **"Apply"** and then the **"OK"** button.
4. Enter (or scan) the IMEI number of the mobile to be tested into the **"Enter IMEI"** box in the SERP Window and click on the **"Load"** button. The appropriate phone model will be displayed.
5. In the SERP window, check the **"Final GoNogo Test"** box only. Click on the **"Start Test"** button and follow the instructions. (Power on the phone when the **"Call Connection"** dialog box appears.)

## 2.3 Stand alone GNG

A Stand alone GNG test script must be written in accordance with the GO/NO GO Test Script Specification, Electrical (1213-2259) located on CSPN.

### 3 Revision History

Rev.	Date	Changes / Comments
1	2008-09-24	First release