



Sony Ericsson

Test & Calibration

- electrical -



Spiro
W100i, W100a



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1 Go/NoGo Testing

This Go/NoGo testing can be carried out in two alternative ways, with an:

- Antenna Coupler
- Direct Line

For more information on Antenna Coupler and Direct Line testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!

For part no’s on the equipment below, refer to the ‘Tools Catalogue/Matrix’!

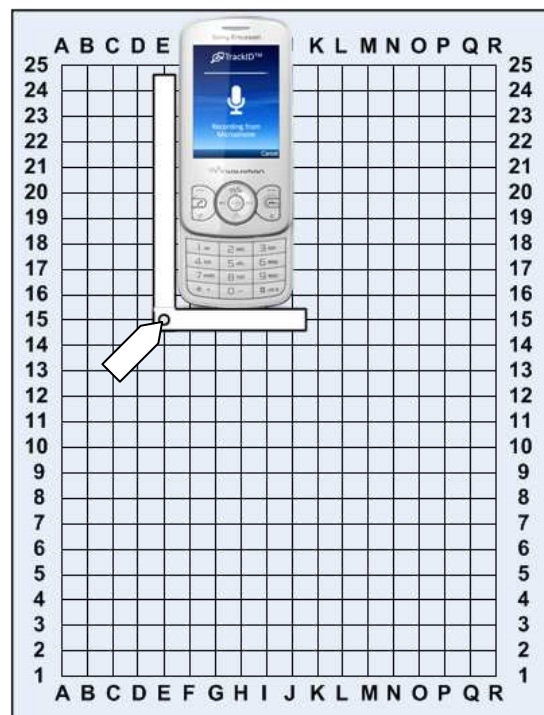
1.1 Antenna Coupler

The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box

GSM-850/900/1800/1900

Put the grid positioning holder with its reference point in position **E15** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

1.2 Direct Line

The following equipment has to be used:

- RF Test Cable Flexible 1M
- RF Probe
- Dummy Battery with external power supply and cables (if not using a fully charged battery)

Connect the RF Probe as shown in the adjacent picture.

To get access to the RF connector on the PBA, refer to 1239-8656: W100i & W100a Working Instructions, section 4.1!



Go/NoGo Testing

Follow the directions stated in 'Go/NoGo Test Script Parameters' to be found in 1220-1336: Generic Repair Manual – electrical, together with the 'Attenuation Factors' below!

This phone is available as two versions, W100i and W100a, including the following bands:

W100i:

GSM-900/1800

W100a:

GSM-850/1900



1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 and 1.3.2 are valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler

Band	Channel	Attenuation W100i		W100a	
		Rx	Tx	Rx	Tx
GSM 850	Low	-	-	5.00	6.61
	Mid	-	-	8.50	5.45
	High	-	-	5.00	5.20
GSM 900	Low	6.00	4.83	-	-
	Mid	6.00	4.39	-	-
	High	6.00	4.14	-	-
GSM 1800	Low	12.00	14.30	-	-
	Mid	13.00	13.29	-	-
	High	15.00	13.46	-	-
GSM 1900	Low	-	-	11.00	9.29
	Mid	-	-	14.00	9.85
	High	-	-	17.00	10.42



Go/NoGo Testing: Attenuation Factors

1.3.2 Loss Values – Direct Line

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	All	0.8	0.8
GSM 900	All	0.8	0.8
GSM 1800	All	1.3	1.3
GSM 1900	All	1.3	1.3



2 Revision History

Rev.	Date	Changes / Comments
1	2010-Sept-18	Initial release