

Go/No Go Test

- electrical -



Xperia™ tipo

ST21i , ST21a, ST21i2, ST21a2

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This product is ONLY implemented in SERP II

1 Go/No Go Testing

This Go/No Go testing has to be carried out in tow ways, with an:

- Antenna Coupler.
- Cable in shield box

For more information on Antenna Coupler and Cable in shield box 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

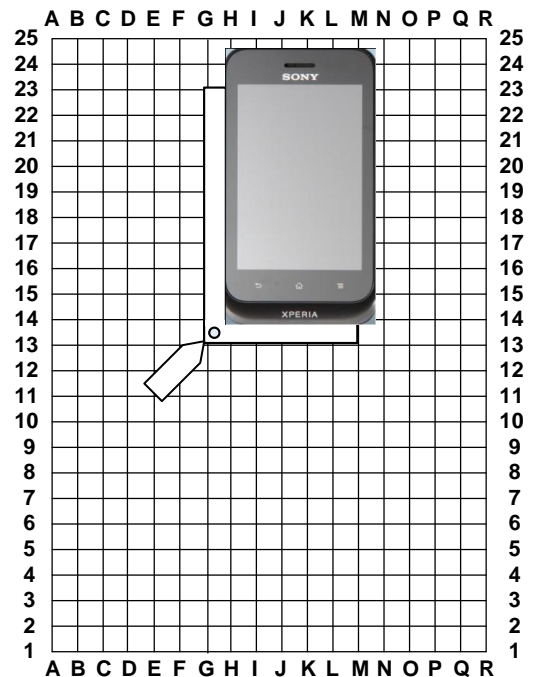
The following equipment has to be used:

- 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
- USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

Put the grid positioning holder with its reference point in position **G13** 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
- USIM Card, instrument specific

Connect the RF Probe as shown in the adjacent picture.

To get access to the RF connector on the PBA, refer to 1266-1672: ST21 Mechanical Working Instructions, Chapter 3.1!



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 four versions, ST21i, ST21a, ST21i2 and ST21a2 including the following bands:

ST21i and ST21i2:

GSM-850/900/1800/1900

WCDMA-900/2100

ST21a and ST21a2:

GSM-850/900/1800/1900

WCDMA-850/1900/2100

Go/NoGo Testing

1.3 Attenuation Factors

The attenuation values listed below in 1.2.1 are valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler

Band	Channel	Attenuation ST21i / ST21i2		Attenuation ST21a / ST21a2	
		Rx	Tx	Rx	Tx
GSM 850	Low	5.50	10.24	7.00	10.46
	Mid	6.50	9.30	7.50	9.19
	High	8.00	8.51	9.50	8.14
GSM 900	Low	8.50	7.44	8.00	7.34
	Mid	8.50	7.09	9.50	6.70
	High	9.00	8.59	9.00	8.20
GSM 1800	Low	4.50	10.22	7.00	8.12
	Mid	10.00	8.42	9.50	8.49
	High	8.50	8.36	8.00	7.83
GSM 1900	Low	5.50	7.19	8.00	7.50
	Mid	11.50	7.51	9.00	7.27
	High	11.50	9.31	9.00	8.95
WCDMA 850	Low	-	-	10.50	12.44
	Mid	-	-	10.00	11.04
	High	-	-	12.00	10.66
WCDMA 900	Low	9.00	6.34	-	-
	Mid	10.00	6.34	-	-
	High	9.50	8.06	-	-
WCDMA 1900	Low	-	-	7.00	8.04
	Mid	-	-	10.00	8.12
	High	-	-	11.50	8.52
WCDMA 2100	Low	13.00	9.06	8.50	8.81
	Mid	14.00	10.52	8.50	10.19
	High	15.00	12.47	9.00	10.90

Go/NoGo Testing: Attenuation Factors

1.3.2 Loss Values – Direct Line

Band	Channel	Attenuation	
		Rx	Tx
GSM 850	All	1.0	1.0
GSM 900	All	1.0	1.0
GSM 1800	All	2.3	2.3
GSM 1900	All	2.3	2.3
WCDMA 850	All	2.5	2.5
WCDMA 900	All	2.5	2.5
WCDMA 1900	All	1.3	1.3
WCDMA 2100	All	1.3	1.3

2 Revision History

Rev.	Date	Changes / Comments
1	2012-July-10	Initial release
2	2012-Sep-12	ST21i2 & ST21a2 Added