

Go/No Go Test



Xperia E4g

E2003, E2006, E2033, E2043, E2053

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E2003 is implemented in SERP11.

E2006 is implemented in SERP11.

E2033 is implemented in SERP11.

E2043 is implemented in SERP11.

E2053 is implemented in SERP11.

1 Go/No Go Testing

This Go/No Go testing has to be carried out in one way, with an:

- Antenna Coupler.

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 E2003, E2006, E2033, E2043 and E2053

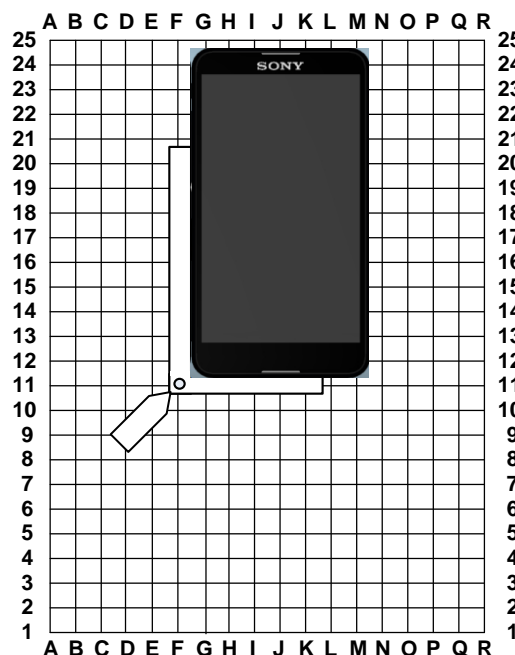
The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box CMU-Z11
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

Put the grid positioning holder with its reference point in position **F11** and place the phone as shown in the adjacent picture.



1.2 Antenna Coupler E2003, E2006, E2033, E2043 and E2053 all bands

The following equipment has to be used:

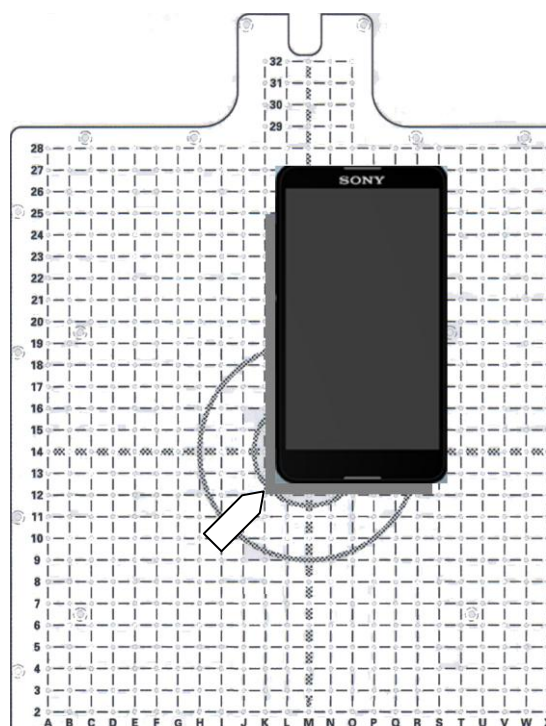
- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler CMW-Z11
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1700/1900/2100

LTE-BAND 1/2/3/4/5/7/8/12/13/17/20/28/40

Put the grid positioning holder with its reference point in position **K12** and place the phone as shown in the adjacent picture.



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 in 5 variants E2003, E2006, E2033, E2043 and E2053 including the following bands:

E2003:

GSM- 850 / 900 / 1800 / 1900
WCDMA- 850 / 900 / 1900 / 2100
LTE- 1 / 2 / 3 / 5 / 7 / 8 / 20

E2006:

GSM- 850 / 900 / 1800 / 1900
WCDMA- 850 / 1700 / 1900 / 2100
LTE- 2 / 4 / 5 / 7 / 12 / 13 / 17

E2033:

GSM- 850 / 900 / 1800 / 1900
WCDMA- 850 / 900 / 1900 / 2100
LTE- 1 / 2 / 3 / 5 / 7 / 8 / 20

E2043:

GSM- 850 / 900 / 1800 / 1900
WCDMA- 850 / 900 / 1900 / 2100
LTE- 1 / 2 / 3 / 5 / 8 / 40

E2053:

GSM- 850 / 900 / 1800 / 1900
WCDMA- 850 / 900 / 1700 / 1900 / 2100
LTE- 1 / 2 / 3 / 4 / 5 / 7 / 8 / 28

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1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 ~1.3.4 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11, E2003, E2006 and E2033

Band	Channel	Attenuation E2003 and E2033		Attenuation E2006	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	15.36	8.00	15.67
	Mid	8.00	15.20	9.00	12.97
	High	7.00	13.48	9.00	10.06
GSM 900	Low	7.00	10.33	7.50	9.13
	Mid	6.50	8.33	8.00	9.21
	High	10.00	7.14	9.00	8.64
GSM 1800	Low	15.50	13.93	12.00	12.80
	Mid	9.00	12.54	11.00	12.30
	High	9.00	11.81	10.00	11.95
GSM 1900	Low	13.00	8.01	13.00	7.28
	Mid	14.00	9.20	13.00	8.43
	High	15.00	10.34	15.00	10.24
WCDMA 850	Low	10.00	19.02	10.00	14.43
	Mid	8.50	15.75	10.00	12.80
	High	7.50	12.67	9.50	11.21
WCDMA 900	Low	8.50	9.17		
	Mid	7.50	7.94		
	High	9.50	7.26		
WCDMA 1700	Low			14.50	13.08
	Mid			14.00	13.53
	High			15.00	13.00
WCDMA 1900	Low	14.00	9.61	14.00	9.69
	Mid	16.00	9.06	14.50	9.01
	High	16.50	10.59	16.00	10.25
WCDMA 2100	Low	15.50	11.24	14.50	11.23
	Mid	15.00	13.16	13.00	12.98
	High	16.00	14.83	14.00	14.57

1.3.2 Loss Values – Antenna Coupler CMU-Z11, E2043 and E2053

Band	Channel	Attenuation E2043		Attenuation E2053	
		Rx	Tx	Rx	Tx
GSM 850	Low	12.00	17.09	12.00	17.09
	Mid	11.50	16.87	11.50	16.87
	High	12.00	14.43	12.00	14.43
GSM 900	Low	13.00	12.23	13.00	12.23
	Mid	14.00	12.94	14.00	12.94
	High	18.00	12.45	18.00	12.45
GSM 1800	Low	12.00	12.97	12.00	12.97
	Mid	10.00	12.14	10.00	12.14
	High	9.00	11.45	9.00	11.45
GSM 1900	Low	11.00	7.08	11.00	7.08
	Mid	10.50	8.33	10.50	8.33
	High	15.00	9.61	15.00	9.61
WCDMA 850	Low	11.00	13.49	11.00	13.49
	Mid	12.00	12.06	12.00	12.06
	High	11.50	11.06	11.50	11.06
WCDMA 900	Low	12.00	10.40	12.00	10.40
	Mid	15.00	10.72	15.00	10.72
	High	18.00	11.52	18.00	11.52
WCDMA 1700	Low			16.00	12.66
	Mid			15.50	13.01
	High			16.00	12.49
WCDMA 1900	Low	12.50	9.78	12.50	9.78
	Mid	14.00	9.15	14.00	9.15
	High	15.50	9.77	15.50	9.77
WCDMA 2100	Low	16.00	10.51	16.00	10.51
	Mid	16.50	12.51	16.50	12.51
	High	16.00	14.14	16.00	14.14

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1.3.3 Loss Values – Antenna Coupler CMW-Z11, E2003, E2006 and E2033

Band	Channel	Attenuation E2003 and E2033		Attenuation E2206	
		Rx	Tx	Rx	Tx
GSM 850	Low	9.00	10.73		
	Mid	10.00	11.22		
	High	9.00	12.20		
GSM 900	Low	13.00	12.04		
	Mid	15.00	10.72		
	High	19.00	10.58		
GSM 1800	Low	11.00	9.28		
	Mid	14.00	9.89		
	High	15.00	10.49		
GSM 1900	Low	14.00	15.66		
	Mid	17.00	14.69		
	High	19.00	12.88		
WCDMA 850	Low	13.00	11.14	15.00	7.83
	Mid	9.00	12.65	11.00	9.32
	High	9.00	12.75	12.00	10.59
WCDMA 900	Low	14.00	11.50		
	Mid	16.00	8.62		
	High	19.00	8.61		
WCDMA 1700	Low			17.00	12.77
	Mid			15.00	12.76
	High			16.00	11.93
WCDMA 1900	Low	15.00	18.67	17.00	20.34
	Mid	18.00	17.14	19.00	18.76
	High	20.00	14.33	21.00	16.60
WCDMA 2100	Low	15.00	13.36	17.00	16.19
	Mid	15.00	16.00	16.00	18.72
	High	17.00	20.62	14.00	22.74
LTE Band 1	Low	14.00	15.50		
	Mid	15.00	16.00		
	High	17.00	20.60		

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Band	Channel	Attenuation E2003 and E2033		Attenuation E2206	
		Rx	Tx	Rx	Tx
LTE Band 2	Low	14.00	19.90	15.00	19.40
	Mid	18.00	18.10	19.00	17.70
	High	19.00	15.80	20.00	15.80
LTE Band3	Low	13.00	12.70		
	Mid	15.00	12.50		
	High	16.00	13.40		
LTE Band 4	Low			16.00	12.50
	Mid			14.00	12.50
	High			15.00	11.70
LTE Band 5	Low	10.00	9.80	11.00	9.70
	Mid	11.00	10.40	13.00	10.70
	High	7.00	11.00	9.00	11.70
LTE Band 7	Low	17.00	17.50	19.00	21.60
	Mid	18.00	16.20	17.00	21.80
	High	19.00	19.50	16.00	20.00
LTE Band 8	Low	13.00	9.90		
	Mid	14.00	9.20		
	High	16.00	9.40		
LTE Band 12	Low			10.00	12.80
	Mid			12.00	10.10
	High			10.00	10.10
LTE Band 13	Low			11.00	10.50
	Mid			11.00	10.50
	High			11.00	10.50
LTE Band 17	Low			11.00	12.60
	Mid			10.00	12.60
	High			10.00	12.60
LTE Band 20	Low	9.00	11.10		
	Mid	9.00	12.30		
	High	9.00	12.90		

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1.3.4 Loss Values – Antenna Coupler CMW-Z11, E2043 and E2053

Band	Channel	Attenuation E2043		Attenuation E2053	
		Rx	Tx	Rx	Tx
GSM 850	Low	11.00	10.66	10.00	13.1
	Mid	18.00	15.00	18.00	13.4
	High	8.00	12.28	8.00	14.8
GSM 900	Low	12.00	19.83	16.00	19.1
	Mid	15.00	18.47	18.00	17.7
	High	18.00	16.31	18.00	15.6
GSM 1800	Low	12.00	9.43	12.00	9.6
	Mid	16.00	9.63	15.00	10.1
	High	15.00	10.72	15.00	11.1
GSM 1900	Low	12.00	16.25	12.00	16.3
	Mid	14.00	15.20	15.00	15.2
	High	17.00	13.62		
WCDMA 850	Low	12.00	13.89	13.00	14.72
	Mid	10.00	14.94	10.00	15.59
	High	9.00	15.96	9.00	16.38
WCDMA 900	Low	14.20	17.48	14.00	16.97
	Mid	16.00	16.40	16.00	15.59
	High	17.00	15.45	18.00	15.43
WCDMA 1700	Low			14.00	10.27
	Mid			16.00	10.56
	High			18.00	10.97
WCDMA 1900	Low	14.00	17.02	15.00	18.92
	Mid	16.00	16.30	15.00	15.51
	High	18.00	14.15	14.00	14.00
WCDMA 2100	Low	15.00	13.77	14.00	13.13
	Mid	13.00	18.00	14.00	17.50
	High	14.00	22.89	15.00	22.24
LTE Band 1	Low	16.00	16.20	19.00	16.40
	Mid	13.00	18.00	16.00	18.60
	High	15.00	23.20	17.00	22.70
LTE Band 2	Low	14.00	18.90	17.00	20.90
	Mid	16.00	16.30	19.00	19.00
	High	17.00	16.40	22.00	17.00

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Band	Channel	Attenuation E2043		Attenuation E2053	
		Rx	Tx	Rx	Tx
LTE Band 3	Low	13.00	14.00	16.00	12.60
	Mid	16.00	14.40	21.00	12.30
	High	16.00	15.50	21.00	13.00
LTE Band 4	Low			19.00	12.60
	Mid			15.00	12.30
	High			16.00	11.90
LTE Band 5	Low	12.00	13.30	14.00	14.10
	Mid	12.00	15.40	14.00	15.30
	High	10.00	16.30	11.00	16.30
LTE Band 7	Low			16.00	21.00
	Mid			17.00	23.60
	High			21.00	28.00
LTE Band 8	Low	13.00	18.90	13.00	17.00
	Mid	15.00	17.80	15.00	15.40
	High	16.00	16.80	18.00	15.50
LTE Band 28	Low			12.00	8.90
	Mid			11.00	12.40
	High			9.00	14.20
LTE Band 40	Low	25.00	21.40		
	Mid	28.00	19.10		
	High	19.00	14.20		

2 Revision History

Rev.	Date	Changes / Comments
1	2015-03-06	Initial release
2	2015-03-10	No changes
3	2015-03-23	Added E2003,E2006,E2033,E2043 and E2053 to CWMrun