

Contents

01 - Self-diagnosis, Electrical check	1
1 Basic Notes on ABS and ESP self-diagnosis	1
1.1 Basic Notes on ABS and ESP self-diagnosis	1
1.2 Connecting fault reader V.A.G 1551 and selecting address word	2
1.3 Selecting functions	4
1.4 Safety precautions and basic notes on fault finding with ABS and ESP	6
1.5 Technical publications required	7
2 CAN bus	8
2.1 CAN bus	8
2.2 Function of CAN-Bus	8
2.3 CAN bus for ESP	8
2.4 Checking a "two-wire bus system"	9
2.5 CAN-terminating resistances	13
3 ABS/EDL and ABS/EDL/TCS Bosch 5.3	13
3.1 ABS/EDL and ABS/EDL/TCS Bosch 5.3	13
3.2 Function of Bosch ABS/EDL 5.3 Series	13
3.3 Table of warning lamp functions	15
3.4 Function of self- diagnosis	18
3.5 Interrogating control unit version	19
3.6 ABS,EDL control unit versions	19
3.7 ABS, EDL, TCS control unit versions	20
3.8 Encoding control unit	21
3.9 ABS/EDL/TCS coding table	22
3.10 Reading measured value block	23
3.11 Final control diagnosis	26
3.12 Electrical check	35
4 Fault memory ABS,EDL and ABS,EDL,TCS	44
4.1 Fault memory ABS,EDL and ABS,EDL,TCS	44
4.2 Fault table	44
5 ESP, Electronic-Stability-Program Bosch 5.3	53
5.1 ESP, Electronic-Stability-Program Bosch 5.3	53
5.2 Function of ESP	54
5.3 Additional components for ABS/EDL	56
5.4 Table of warning lamp functions	60
6 Self-diagnosis	64
6.1 Self-diagnosis	64
6.2 Function of self-diagnosis	64
6.3 Interrogating control unit version	65
6.4 Encoding control unit	66
6.5 ESP login code table	66
6.6 ESP login code table /A6 allroad quattro	67
6.7 ESP coding table	68
6.8 ESP coding table/A6 allroad quattro	68
6.9 Brake caliper type (front)	70
6.10 Reading measured value block	71
6.11 Final control diagnosis	79
6.12 Zero position compensation of steering angle sender -G85	89
6.13 Actuation of ESP hydraulic pump -V156	90
6.14 ESP - system test	91
7 Electrical check	92
7.1 Electrical check	92
8 ESP fault memory	111
8.1 ESP fault memory	111



8.2	Fault table; fault codes 00000 to 00526	112
8.3	Fault table; fault codes 00532 to 01421	117
8.4	Fault table; fault codes from 01422 to 01425	122
8.5	Fault table; fault codes from 01435 to 01542	130
8.6	Fault table; fault codes from 18031 to 65535	138