

Contents

00 - Technical data	1
1 Safety information	1
1.1 Safety precautions when working on the high-voltage system	1
1.2 Safety precautions when working in the vicinity of high-voltage components	2
1.3 Safety precautions when working on vehicles with start/stop system	2
1.4 Safety precautions when using testers and measuring instruments during a road test	3
2 Repair instructions	4
2.1 Rules for cleanliness	4
2.2 General notes	4
2.3 Contact corrosion	5
2.4 ESD (electrostatic discharge) workplace	5
2.5 Routing and attachment of pipes, hoses and wiring	5
2.6 Identification plates	5
2.7 Use of impact wrenches	6
98 - Assist systems	7
1 Safety information	7
2 Fitting locations	8
2.1 Overview of fitting locations - senders, sensors and control units in front section of vehicle ..	8
2.2 Overview of fitting locations - senders, sensors and control units in centre section of vehicle	12
2.3 Overview of fitting locations - senders, sensors and control units in rear section of vehicle ..	15
3 Senders/sensors/control units	21
3.1 Removing and installing rear parking aid sender G203 / G204 / G205 / G206	22
3.2 Removing and installing front parking aid sender G252 / G253 / G254 / G255	24
3.3 Removing and installing front park assist steering sender G568 / G569	27
3.4 Removing and installing rear park assist steering sender G716 / G717	28
3.5 Removing and installing rear parking aid warning buzzer H15	29
3.6 Removing and installing front parking aid warning buzzer H22	30
3.7 Assembly overview - adaptive cruise control unit	30
3.8 Removing and installing adaptive cruise control unit J428	33
3.9 Removing and installing reversing camera system control unit J772	38
3.10 Removing and installing lane change assist control unit J769 / J770	38
3.11 Removing and installing control unit 2 for adaptive cruise control J850	39
3.12 Removing and installing control unit for night vision system J853	40
3.13 Removing and installing control unit for overhead view camera J928	42
3.14 Removing and installing front radar sensor control unit for object detection J1088 / J1089 ..	44
3.15 Assembly overview - driver assist systems control unit	44
3.16 Removing and installing driver assist systems control unit J1121	45
3.17 Assembly overview - control unit for laser distance control	47
3.18 Removing and installing control unit for laser distance control J1122	49
3.19 Removing and installing lane change assist warning lamp in exterior mirror K233 / K234 ..	51
3.20 Removing and installing reversing camera R189	52
3.21 Assembly overview - camera for night vision system	53
3.22 Removing and installing camera for night vision system R212	53
3.23 Assembly overview - front camera for driver assist systems	55
3.24 Removing and installing front camera for driver assist systems R242	57
3.25 Removing and installing front overhead view camera R243	64
3.26 Removing and installing right/left overhead view camera R244 / R245	65
3.27 Removing and installing rear overhead view camera R246	66
4 Adaptive cruise control	67
4.1 Layout - adaptive cruise control	67
4.2 Adjusting adaptive cruise control	68



5	Parking aid/park assist steering/autonomous parking	84
5.1	Layout - parking aid/park assist steering/autonomous parking	84
6	Lane change assist	87
6.1	Layout - lane change assist	87
6.2	Calibrating lane change assist	87
7	Front corner radar	97
7.1	Layout - front corner radar	97
7.2	Calibrating front corner radar	97
8	Reversing camera system	105
8.1	Layout - reversing camera system	105
8.2	Calibrating reversing camera system	105
9	Night vision system	111
9.1	Layout - night vision system	111
9.2	Calibrating night vision system	111
10	Overhead view camera	118
10.1	Layout - overhead view camera	118
10.2	Calibrating overhead view camera	119
11	Front camera for driver assist systems	126
11.1	Layout - front camera for driver assist systems	126
11.2	Calibrating front camera for driver assist systems	126