

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	10
2.3 Overview of fitting locations - senders, sensors and control units in rear section of vehicle	12
3 Senders/sensors/control units	16
3.1 Removing and installing rear parking aid sender G203 / G204 / G205 / G206	17
3.2 Removing and installing front parking aid sender G252 / G253 / G254 / G255	19
3.3 Removing and installing front park assist steering sender G568 / G569	20
3.4 Removing and installing rear park assist steering sender G716 / G717	20
3.5 Removing and installing rear parking aid warning buzzer H15	21
3.6 Removing and installing front parking aid warning buzzer H22	22
3.7 Assembly overview - adaptive cruise control unit	22
3.8 Removing and installing adaptive cruise control unit J428	24
3.9 Removing and installing reversing camera system control unit J772	28
3.10 Removing and installing lane change assist control unit J769 / J770	28
3.11 Removing and installing control unit for night vision system J853	29
3.12 Removing and installing front radar sensor control unit for object detection J1088 / J1089	29
3.13 Assembly overview - driver assist systems control unit	30
3.14 Removing and installing driver assist systems control unit J1121	31
3.15 Assembly overview - control unit for laser distance control	33
3.16 Removing and installing control unit for laser distance control J1122	35
3.17 Removing and installing lane change assist warning lamp in exterior mirror K233 / K234	38
3.18 Removing and installing reversing camera R189	38
3.19 Assembly overview - camera for night vision system	38
3.20 Removing and installing camera for night vision system R212	39
3.21 Assembly overview - front camera for driver assist systems	41
3.22 Removing and installing front camera for driver assist systems R242	42
3.23 Removing and installing front overhead view camera R243	43
3.24 Removing and installing right/left overhead view camera R244 / R245	44
3.25 Removing and installing rear overhead view camera R246	45
4 Adaptive cruise control	46
4.1 Layout - adaptive cruise control	46
4.2 Adjusting adaptive cruise control	46
5 Parking aid/park assist steering/autonomous parking	57

5.1	Layout - parking aid/park assist steering/autonomous parking	57
6	Lane change assist	59
6.1	Layout - lane change assist	59
6.2	Calibrating lane change assist	59
7	Front corner radar	69
7.1	Layout - front corner radar	69
7.2	Calibrating front corner radar	69
8	Reversing camera system	76
8.1	Layout - reversing camera system	76
8.2	Calibrating reversing camera system	76
9	Night vision system	82
9.1	Layout - night vision system	82
9.2	Calibrating night vision system	82
10	Overhead view camera	89
10.1	Layout - overhead view camera	89
10.2	Calibrating overhead view camera	89
11	Front camera for driver assist systems	93
11.1	Layout - front camera for driver assist systems	93
11.2	Calibrating front camera for driver assist systems	93