

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
91 - Communication	7
1 Safety information	7
2 Infotainment system	8
2.1 Layout - infotainment system	8
2.2 Overview of fitting locations - infotainment system	17
2.3 Removing and installing infotainment system display	18
2.4 Removing and installing control unit 1 for information electronics J794	20
2.5 Removing and installing driver side volume regulator E67	23
2.6 Removing and installing additional display and operating unit 1 E857	24
2.7 Removing and installing wireless operating unit 1 E859	25
3 Sound system	27
3.1 Layout - sound system	27
3.2 Overview of fitting locations - sound system	43
3.3 Overview of fitting locations - ANC microphones	51
3.4 Removing and installing digital sound package control unit/amplifier	51
3.5 Removing and installing rear treble loudspeakers R14 / R16	56
3.6 Removing and installing rear treble loudspeakers 2 R217 / R218	57
3.7 Removing and installing front treble loudspeakers R20 / R22	57
3.8 Removing and installing front treble loudspeakers 2 R220 / R221	58
3.9 Removing and installing rear mid-range loudspeakers R105 / R106	59
3.10 Removing and installing rear mid-range loudspeakers 2 R341 / R340	59
3.11 Removing and installing front mid-range loudspeakers R103 / R104	60
3.12 Removing and installing front mid-range loudspeakers 2 R276 / R277	60
3.13 Removing and installing rear bass loudspeakers R15 / R17	61
3.14 Removing and installing front bass loudspeakers R21 / R23	62
3.15 Removing and installing subwoofer R211	63
3.16 Removing and installing effect loudspeakers	64
3.17 Removing and installing centre loudspeaker R208	65
3.18 Removing and installing centre loudspeaker 2 R219	65
3.19 Removing and installing internal microphone R74	66
3.20 Removing and installing ANC microphones	66
4 Aerial systems	68
4.1 Layout - aerial systems	68
4.2 Overview of fitting locations - aerial systems	71
4.3 Removing and installing aerial amplifier	75
4.4 Removing and installing window aerial suppression filter C18	75
4.5 Removing and installing roof aerial	76

4.6	Removing and installing GPS aerial	77
4.7	Removing and installing LTE aerials	77
4.8	Removing and installing satellite tuner aerial R172	78
4.9	Removing and installing digital radio aerial R183	78
4.10	Removing and installing emergency call module aerials	79
4.11	Removing and installing bumper aerials	80
4.12	Removing and installing traffic data aerial	82
4.13	Removing and installing dedicated short-range communication aerial R269	83
4.14	Removing and installing internal vehicle communication aerial R364	84
4.15	Removing and installing wireless data transfer aerial R336	84
4.16	Removing and installing wireless data transfer aerial 2 R366	85
4.17	Removing and installing near field communication aerial R350	85
4.18	Removing and installing near field communication aerial 2 R351	85
4.19	Removing and installing near field communication control unit 2 J1170	86
4.20	Removing and installing roof aerial control unit JX3	86
5	Radio	87
5.1	Layout - radio	87
5.2	Overview of fitting locations - radio	87
5.3	Removing and installing radio	87
5.4	Removing and installing digital radio/satellite radio	87
6	DVD/CD changer	88
6.1	Removing and installing DVD player R7	88
6.2	Removing and installing DVD changer	89
7	Telephone system	91
7.1	Layout - telephone	91
7.2	Overview of fitting locations - telephone system	112
7.3	Assembly overview - microphone unit	115
7.4	Removing and installing front microphone R140 / R141	117
7.5	Removing and installing aerial amplifier for mobile telephone R86	118
7.6	Removing and installing aerial amplifier 2 for mobile telephone R328	118
7.7	Removing and installing telephone bracket	119
8	Navigation system	122
8.1	Layout - navigation system	122
8.2	Overview of fitting locations - navigation system	122
8.3	Removing and installing control unit for navigation system	122
8.4	Removing and installing chip card reader control unit	122
9	TV system	124
9.1	Layout - TV system	124
9.2	Overview of fitting locations - TV system	127
9.3	Removing and installing TV tuner	128
9.4	Removing and installing TV card reader	130
10	Reversing camera system	131
11	Multifunction steering wheel	132
11.1	Layout - multifunction steering wheel	132
11.2	Assembly overview - multi-function steering wheel	132
11.3	Removing and installing multifunction buttons in steering wheel E441 / E440	133
11.4	Removing and installing Tiptronic switches in steering wheel E480 / E479	134
12	Voice control system	136
12.1	Layout - voice control system	136
12.2	Removing and installing voice control system	136
13	Connection for external multimedia devices	138
13.1	Layout - external multimedia devices	138
13.2	Removing and installing connection for external multimedia devices	139
13.3	Removing and installing USB connection 1 U41	140

13.4	Removing and installing control unit with Android operating system J1243	140
14	Rear Seat Entertainment system (RSE)	142
14.1	Layout - Rear Seat Entertainment system	142
14.2	Overview of fitting locations - Rear Seat Entertainment system	142
14.3	Removing and installing multimedia system display unit Y31 / Y32	144
14.4	Removing and installing holder for multimedia system display unit R315 / R316	145
14.5	Removing and installing rear information display and operating unit control unit J648 / J649	146
15	Night vision system	148
16	Overhead view camera	149
17	Online services	150
17.1	Layout - online services	150
17.2	Overview of fitting locations - mobile online services	154
17.3	Removing and installing emergency call module control unit and communication unit J949	158
17.4	Removing and installing emergency battery, telematics A16	160
17.5	Removing and installing loudspeaker for emergency call module R335	161
17.6	Removing and installing interface control unit for telematics J1221	162
17.7	Removing and installing telephone and telematics control unit J526	162
17.8	Removing and installing data transmission aerials	163