

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	15
2.3 Removing and installing infotainment system display	16
2.4 Removing and installing control unit 1 for information electronics J794	18
2.5 Removing and installing driver side volume regulator E67	21
2.6 Removing and installing additional display and operating unit 1 E857	22
2.7 Removing and installing wireless operating unit 1 E859	22
3 Sound system	24
3.1 Layout - sound system	24
3.2 Overview of fitting locations - sound system	34
3.3 Removing and installing digital sound package control unit/amplifier	42
3.4 Removing and installing rear treble loudspeakers R14 / R16	48
3.5 Removing and installing rear treble loudspeakers 2 R217 / R218	48
3.6 Removing and installing front treble loudspeakers R20 / R22	49
3.7 Removing and installing front treble loudspeakers 2 R220 / R221	50
3.8 Removing and installing rear mid-range loudspeakers 2 R341 / R340	51
3.9 Removing and installing front mid-range loudspeakers R103 / R104	52
3.10 Removing and installing front mid-range loudspeakers 2 R276 / R277	52
3.11 Removing and installing rear bass loudspeakers R15 / R17	53
3.12 Removing and installing front bass loudspeakers R21 / R23	54
3.13 Removing and installing subwoofer R211	55
3.14 Removing and installing effect loudspeakers	58
3.15 Removing and installing centre loudspeaker R208	61
3.16 Removing and installing centre loudspeaker 2 R219	61
3.17 Removing and installing internal microphone R74	62
4 Aerial systems	64
4.1 Layout - aerial systems	64
4.2 Overview of fitting locations - aerial systems	71
4.3 Removing and installing aerial amplifier	81
4.4 Removing and installing window aerial suppression filter	85
4.5 Removing and installing roof aerial	87
4.6 Removing and installing GPS aerial	88
4.7 Removing and installing LTE aerials	88
4.8 Removing and installing satellite tuner aerial R172	89



4.9	Removing and installing digital radio aerial	89
4.10	Removing and installing emergency call module aerials	90
4.11	Removing and installing bumper aerials	91
4.12	Removing and installing traffic data aerial	92
4.13	Removing and installing dedicated short-range communication aerial	93
4.14	Removing and installing internal vehicle communication aerial R364	94
4.15	Removing and installing wireless data transfer aerial R336	94
4.16	Removing and installing wireless data transfer aerial 2 R366	96
4.17	Removing and installing near field communication aerial R350	96
4.18	Removing and installing near field communication aerial 2 R351	97
4.19	Removing and installing near field communication control unit 2 J1170	97
4.20	Removing and installing roof aerial control unit JX3	98
5	Radio	99
5.1	Layout - radio	99
5.2	Overview of fitting locations - radio	99
5.3	Removing and installing radio	99
5.4	Removing and installing digital radio	99
6	DVD/CD changer	100
6.1	Removing and installing DVD player R7	100
7	Telephone system	102
7.1	Layout - telephone	102
7.2	Overview of fitting locations - telephone system	113
7.3	Assembly overview - microphone unit	117
7.4	Removing and installing front microphone R140 / R141	119
7.5	Removing and installing aerial amplifier for mobile telephone R86	120
7.6	Removing and installing telephone bracket	121
8	Navigation system	123
8.1	Layout - navigation system	123
8.2	Overview of fitting locations - navigation system	123
8.3	Removing and installing control unit for navigation system	123
8.4	Removing and installing chip card reader control unit	123
9	TV system	125
9.1	Layout - TV system	125
9.2	Overview of fitting locations - TV system	127
9.3	Removing and installing TV tuner	129
9.4	Removing and installing TV card reader	133
10	Reversing camera system	135
11	Multifunction steering wheel	136
11.1	Layout - multifunction steering wheel	136
11.2	Assembly overview - multi-function steering wheel	136
11.3	Removing and installing multifunction buttons in steering wheel E441 / E440	138
11.4	Removing and installing Tiptronic switches in steering wheel E480 / E479	139
12	Voice control system	141
12.1	Layout - voice control system	141
12.2	Removing and installing voice control system	141
13	Connection for external multimedia devices	142
13.1	Layout - external multimedia devices	142
13.2	Removing and installing connection for external multimedia devices	143
13.3	Removing and installing USB connection 1 U41	144
13.4	Removing and installing control unit with Android operating system J1243	144
14	Rear Seat Entertainment system (RSE)	146
14.1	Layout - Rear Seat Entertainment system	146
14.2	Removing and installing multimedia system display unit Y31 / Y32	146
15	Night vision system	147

16	Overhead view camera	148
17	Online services	149
17.1	Layout - online services	149
17.2	Overview of fitting locations - mobile online services	152
17.3	Removing and installing emergency call module control unit and communication unit J949	157
17.4	Removing and installing emergency battery, telematics A16	158
17.5	Removing and installing loudspeaker for emergency call module R335	159
17.6	Removing and installing interface control unit for telematics J1221	160
17.7	Removing and installing telephone and telematics control unit J526	162
17.8	Removing and installing data transmission aerials	164