

## Contents

<b>00 - Technical data</b> .....	<b>1</b>
<b>1 Safety information</b> .....	<b>1</b>
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
<b>2 Repair instructions</b> .....	<b>4</b>
2.1 Rules for cleanliness .....	4
2.2 General notes .....	4
2.3 Contact corrosion .....	4
2.4 ESD (electrostatic discharge) workplace .....	5
2.5 Routing and attachment of lines and wiring .....	5
2.6 Identification plates .....	6
2.7 Use of impact wrenches .....	6
<b>91 - Radio, telephone, navigation</b> .....	<b>7</b>
<b>1 Infotainment system</b> .....	<b>7</b>
1.1 Layout - infotainment system .....	7
1.2 Overview of fitting locations - infotainment system .....	8
1.3 Removing and installing infotainment system display .....	9
1.4 Removing and installing control unit 1 for information electronics J794 .....	9
1.5 Removing and installing multimedia system operating unit E380 .....	12
1.6 Removing and installing driver side volume regulator E67 .....	13
<b>2 Sound system</b> .....	<b>14</b>
2.1 Layout - sound system .....	14
2.2 Overview of fitting locations - sound system .....	16
2.3 Removing and installing digital sound package control unit/amplifier .....	20
2.4 Removing and installing rear treble loudspeakers R14/R16 .....	24
2.5 Removing and installing front treble loudspeakers R20/R22 .....	25
2.6 Removing and installing front mid-range loudspeakers .....	26
2.7 Removing and installing rear mid-range loudspeakers .....	26
2.8 Removing and installing front bass loudspeakers R21/R23 .....	26
2.9 Removing and installing subwoofer R211 .....	27
2.10 Removing and installing centre loudspeaker R208 .....	28
2.11 Removing and installing centre loudspeaker 2 R219 .....	28
2.12 Loudspeaker in front head restraint R317/R318/R319/R320 .....	29
<b>3 Aerial systems</b> .....	<b>31</b>
3.1 Layout - aerial systems .....	31
3.2 Overview of fitting locations - aerial systems .....	32
3.3 Removing and installing aerial amplifier .....	36
3.4 Removing and installing GPS aerial .....	39
3.5 Removing and installing GSM aerial .....	40
3.6 Removing and installing LTE aerials .....	40
3.7 Removing and installing satellite aerial R170 .....	40
3.8 Removing and installing digital radio aerial .....	43
3.9 Removing and installing bumper aerials .....	43
3.10 Removing and installing traffic data aerial .....	43
3.11 Removing and installing dedicated short-range communication aerial .....	45
3.12 Removing and installing aerial wires AM/FM1/TV1 .....	45
<b>4 Radio</b> .....	<b>47</b>
4.1 Layout - radio .....	47
4.2 Removing and installing radio .....	47



<b>5</b>	<b>Telephone system</b> .....	<b>48</b>
5.1	Layout - telephone .....	48
5.2	Overview of fitting locations - telephone system .....	52
5.3	Overview - microphone unit .....	54
5.4	Removing and installing microphone unit in front roof module R164 .....	55
5.5	Removing and installing control unit for seat belt microphone .....	56
5.6	Removing and installing aerial amplifier for mobile telephone R86 .....	57
5.7	Removing and installing telephone bracket R126 .....	58
<b>6</b>	<b>Navigation system</b> .....	<b>60</b>
6.1	Layout - navigation system .....	60
6.2	Overview of fitting locations - navigation system .....	60
6.3	Removing and installing control unit for navigation system .....	62
6.4	Removing and installing chip card reader control unit .....	62
<b>7</b>	<b>TV system</b> .....	<b>64</b>
7.1	Layout - TV system .....	64
7.2	Overview of fitting locations - TV system .....	64
7.3	Removing and installing TV tuner .....	66
<b>8</b>	<b>Reversing camera system</b> .....	<b>70</b>
8.1	Layout - reversing camera system .....	70
8.2	Overview of fitting locations - reversing camera system .....	70
8.3	Removing and installing reversing camera R189 .....	71
8.4	Removing and installing reversing camera system control unit J772 .....	74
8.5	Calibrating reversing camera system .....	75
<b>9</b>	<b>Multifunction steering wheel</b> .....	<b>82</b>
9.1	Layout - multifunction steering wheel .....	82
9.2	Assembly overview - multi-function steering wheel .....	82
9.3	Removing and installing guide ring .....	84
9.4	Removing and installing buttons E387, E541/E408, E818 (satellite switches) .....	87
9.5	Removing and installing multifunction buttons in steering wheel E441/E440 .....	88
9.6	Removing and installing tiptronic switches E480/E479 .....	89
<b>10</b>	<b>Connection for external multimedia devices</b> .....	<b>90</b>
10.1	Layout - connection for external multimedia devices .....	90
10.2	Removing and installing connection for external multimedia devices .....	90