



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Notes on operating mobile telephones and two-way radios</b>	<b>1</b>
1.1 General information	1
1.2 Notes on performing repair work	2
1.3 Overview of battery, transmitter and receiver unit, fuse and wiring harness	3
1.4 Transmitting power and aerial fitting locations	5
<b>2 Suppression measures</b>	<b>6</b>
2.1 Implementation of suppression measures	6
<b>91 - Communication</b>	<b>7</b>
<b>1 Radio / radio navigation systems</b>	<b>8</b>
1.1 Components of radio/radio navigation systems	8
1.2 Overview of fitting locations - radio/radio navigation systems	11
1.3 Removing and installing radio and radio/navigation systems	12
<b>2 Multifunction steering wheel</b>	<b>15</b>
2.1 Components of multifunction steering wheel	15
2.2 Assembly overview - multifunction steering wheel	15
2.3 Removing and installing steering wheel multifunction buttons E441 / E440	16
2.4 Removing and installing Tiptronic switch in steering wheel E439 / E438	19
<b>3 Sound system</b>	<b>21</b>
3.1 Overview of fitting locations - sound system	21
3.2 Removing and installing front bass loudspeakers	23
3.3 Removing and installing rear bass loudspeakers	24
3.4 Removing and installing front treble loudspeakers	25
3.5 Removing and installing subwoofer R211	25
3.6 Removing and installing digital sound package control unit/amplifier	26
<b>4 Aerial systems</b>	<b>28</b>
4.1 General information	28
4.2 Overview of fitting locations - aerial systems	28
4.3 Removing and installing roof aerial	29
4.4 Removing and installing aerial amplifier	30
4.5 Repairing aerial wires	31
<b>5 Reversing camera system</b>	<b>32</b>
5.1 Components of reversing camera system	32
5.2 Overview of fitting locations - reversing camera system	32
5.3 Removing and installing reversing camera R189	33
<b>6 Car-Net</b>	<b>35</b>
6.1 General information	35
6.2 Overview of fitting locations - Car-Net services	35
6.3 Removing and installing emergency call module control unit and communication unit J949	36
6.4 Renewing control unit for emergency call module and communication unit J949	36