



Contents

00 - Technical data	1
1 Repair instructions	1
1.1 General information	1
1.2 Suppression measures	1
1.3 Overview of battery, transmitter and receiver unit, fuse and wiring harness	2
1.4 Installation and operation of two-way radios with a transmitting power above 10 watts ..	3
1.5 Mobile telephones or portable two-way radios without separate external aerial	3
1.6 Transmitting power and aerial fitting locations	3
1.7 General repair instructions	5
91 - Communication	8
1 Radio / radio navigation systems R / J503	9
1.1 Components of radio / radio navigation systems R / J503	9
1.2 Overview of fitting locations - radio / radio navigation system R / J505	24
1.3 Removing and installing radio / radio navigation systems R / J503	41
1.4 Interface for external multimedia unit R215	44
1.5 Pin assignments	46
2 Sound system	65
2.1 General notes on amplifiers	65
2.2 System overview - amplifier R12	65
2.3 Removing and installing amplifier R12	68
2.4 General notes on loudspeaker systems	70
2.5 Removing and installing front bass and mid-range loudspeakers	70
2.6 Removing and installing rear bass loudspeakers R17 / R15	71
2.7 Removing and installing front treble loudspeakers R22 / R20	72
2.8 Removing and installing rear treble loudspeakers R16 / R14	73
3 Aerial systems	75
3.1 System overview - aerial systems, Saloon	75
3.2 System overview - aerial systems, Estate	81
3.3 Removing and installing aerial modules and aerial amplifiers	86
3.4 Removing and installing roof aerial RX5	89
4 CD changer	91
4.1 General information	91
4.2 Removing and installing CD changer R41	91
5 Telephone system	94
5.1 General notes on universal preparation for mobile phone UTP	94
5.2 System overview of universal mobile phone preparation	95
5.3 Removing and installing telephone bracket	98
5.4 Removing and installing mobile telephone operating electronics control unit J412	100
5.5 Changing mobile phone cradle from old to new dash panel	101
5.6 Removing and installing emergency button E276	103
5.7 Removing and installing telephone microphone R38	104
6 Reversing camera	106
6.1 Components of reversing camera system	106
6.2 Assembly overview - reversing camera	107
6.3 Removing and installing reversing camera R189	108
6.4 Calibrating reversing camera	110
6.5 Removing and installing reversing camera system control unit J772	113
6.6 Renewing video cable	114
7 Multifunction steering wheel	117
7.1 General information	117
7.2 Removing and installing steering wheel multifunction buttons E441 / E440	117



8	Connection for external multimedia devices	119
8.1	Components of connection for external multimedia units	119
8.2	Connectors, connection for external multimedia devices	124
8.3	Removing and installing connection for external audio sources R199	127
8.4	Removing and installing interface for external multimedia devices R215	128