

Contents

91 - Radio, telephone, navigation	1
1 Radio systems	1
1.1 General notes	1
1.2 Radio systems - layout	2
1.3 Connectors and pin assignment	6
1.4 Overview of fitting locations	19
1.5 Removing and installing „chorus“ and „concert“ radios	22
1.6 Removing and installing „symphony“ radio	23
1.7 Activating/deactivating transport mode of „symphony II+“ radio unit	24
1.8 Removing and installing CD changer R41	24
1.9 Removing and installing iPod holder R192 / USB connection holder R193	26
1.10 Removing and installing front left mid-range and bass loudspeaker R101	26
1.11 Removing and installing rear left mid-range loudspeaker R105	27
1.12 Removing and installing front left treble loudspeaker R20	27
1.13 Removing and installing rear left treble loudspeaker R14	28
1.14 Removing and installing centre mid-range and treble loudspeaker R158	28
1.15 Removing and installing rear left loudspeaker R4	29
1.16 Removing and installing bass loudspeaker R100	29
1.17 Removing and installing amplifier with bass loudspeaker R44 in luggage compartment (left-side)	30
1.18 Removing and installing amplifier R12	30
1.19 Function test for internal microphone R74	31
1.20 Removing and installing internal microphone R74	32
2 Radio systems SDARS (USA)	34
2.1 General notes	34
2.2 Radio systems - layout	35
2.3 Connectors and pin assignment	38
2.4 Overview of fitting locations	48
2.5 Removing and installing, enabling satellite radio R146	50
3 Telephone systems	52
3.1 General notes	52
3.2 Mobile phone pre-installation - layout	52
3.3 Pre-fitted components for mobile phone installation - layout	53
3.4 Connectors and pin assignment	54
3.5 Overview of fitting locations	56
3.6 Telephone bracket R126	58
3.7 Removing and installing telephone transmitter and receiver unit R36	60
3.8 Removing and installing aerial amplifier for mobile telephone R86	61
3.9 Removing and installing telephone microphone R38	62
3.10 Removing and installing remote control receiver for auxiliary heater R64	62
4 Telephone system (USA)	64
4.1 General notes	64
4.2 Mobile phone pre-installation - layout	64
4.3 Pre-fitted components for mobile phone installation - layout	65
4.4 Connectors and pin assignment	66
4.5 Overview of fitting locations	67
5 Navigation system IV	69
5.1 General notes	69
5.2 Navigation system IV - layout	69
5.3 Connectors on navigation system with CD drive control unit J401	70
5.4 Overview of fitting locations	71
5.5 Removing and installing navigation system with CD drive control unit J401	72

5.6	Removing and installing function selection switch 2 E272	73
6	Navigation system RNS-E	74
6.1	General notes	74
6.2	On-screen fault messages	74
6.3	Navigation system RNS-E - layout	75
6.4	Connectors and pin assignment	79
6.5	Overview of fitting locations	84
6.6	Removing and installing navigation operating electronics control unit J402	88
6.7	Removing and installing navigation/TV tuner J415	89
7	Navigation system RNS-E (USA)	90
7.1	General notes	90
7.2	On-screen fault messages	90
7.3	Navigation system RNS-E - layout	91
7.4	Connectors and pin assignment	93
7.5	Overview of fitting locations	95
8	Navigation system RNS-JP3	98
8.1	General notes	98
8.2	Navigation system JP3 - layout	98
8.3	Connectors and pin assignment JP3	103
8.4	Overview of fitting locations JP3	105
8.5	Removing and installing navigation operating electronics control unit J402	107
8.6	Removing and installing aerial selection control unit J515	107
9	Navigation system RNS-JP4	109
9.1	General notes	109
9.2	JP4 - layout	109
9.3	Connectors and pin assignment JP4	110
9.4	Overview of fitting locations JP4	111
10	Navigation system RNS-JP5	113
10.1	General notes	113
10.2	JP5 - overview	113
10.3	Connectors and pin assignment JP5	114
10.4	Overview of fitting locations JP5	116
11	Navigation system RNS-JP6	119
11.1	General notes	119
11.2	JP6 - layout	119
11.3	Connectors and pin assignment JP6	120
11.4	Overview of fitting locations JP6	122
11.5	Removing and installing reversing camera R189	124
12	Navigation system RNS-Low	126
12.1	General notes	126
12.2	Navigation system RNS-Low - layout	126
12.3	Connectors and pin assignment	131
12.4	Overview of fitting locations	133
12.5	Removing and installing control unit with display for radio and navigation J503	136
13	Steering column electronics control unit J527	138
13.1	General notes	138
13.2	Steering column switch module - overview of components	138
13.3	Connectors on steering column electronics control unit J527	139
13.4	Removing and installing steering column electronics control unit J527	140
14	Multi-function steering wheel	141
14.1	General notes	141
14.2	Multi-function steering wheel - overview of components	141
14.3	Removing and installing multi-function buttons	142
14.4	Removing and installing tiptronic switches	144

15	Aerial system	146
15.1	General notes	146
15.2	Overview of aerials	146
15.3	Overview of aerials (USA)	148
15.4	Overview of aerials (Japan)	149
15.5	Connectors	150
15.6	Removing and installing aerial amplifier R24 / right aerial module R109 / aerial amplifier 2 R111	157
15.7	Removing and installing left aerial module R108	158
15.8	Removing and installing roof aerial (aerial R11)	159
15.9	Removing and installing roof aerial (aerial R11), USA	160