



## Contents

<b>91 - Communication</b> .....	<b>1</b>
<b>1 Communication systems</b> .....	<b>1</b>
1.1 Fault finding .....	1
<b>2 Self-diagnosis for communication systems</b> .....	<b>2</b>
2.1 General instructions for self-diagnosis of the communication systems .....	2
2.2 Self-diagnosis for radio systems "ALPHA", "BETA" and "GAMMA" 08.98 ▶ .....	3
2.3 Self-diagnosis for the radio navigation system with multi-function display (MFD) .....	15
2.4 Self-diagnosis for the radio navigation system with monochrome display .....	44
<b>3 Radio preparation ▶ 07.98</b> .....	<b>69</b>
<b>4 Radio "alpha" ▶ 07.98</b> .....	<b>70</b>
4.1 General notes .....	70
4.2 Removing and installing radio .....	70
4.3 Overview of radio connectors .....	72
4.4 Electronic anti-theft system .....	73
4.5 Fitting radios ▶ 07.98 in vehicles 08.98 ▶ .....	74
<b>5 Radio "gamma" ▶ 07.98</b> .....	<b>76</b>
5.1 General notes .....	76
5.2 Removing and installing radio .....	76
5.3 Overview of radio connectors .....	78
5.4 Electronic anti-theft system .....	79
5.5 Fitting radios ▶ 07.98 in vehicles 08.98 ▶ .....	80
<b>6 Radio "beta" ▶ 07.98</b> .....	<b>82</b>
6.1 General notes .....	82
6.2 Removing and installing radio .....	83
6.3 Overview of radio connectors .....	84
6.4 Electronic anti-theft system .....	85
6.5 Fitting radios ▶ 07.98 in vehicles 08.98 ▶ .....	86
<b>7 Radio "ALPHA" 08.98 ▶</b> .....	<b>88</b>
7.1 General notes .....	88
7.2 Removing and installing radio .....	88
7.3 Overview of radio connectors .....	90
7.4 Electronic anti-theft system .....	90
7.5 Fitting radios 08.98 ▶ in vehicles ▶ 07.98 .....	91
<b>8 Radio "BETA" 08.98 ▶</b> .....	<b>92</b>
8.1 General notes .....	92
8.2 Removing and installing radio .....	92
8.3 Overview of radio connectors .....	93
8.4 Electronic anti-theft system .....	95
8.5 Fitting radios 08.98 ▶ in vehicles ▶ 07.98 .....	96
<b>9 Radio "GAMMA" 08.98 ▶</b> .....	<b>98</b>
9.1 General notes .....	98
9.2 Removing and installing radio .....	98
9.3 Overview of radio connectors .....	99
9.4 Electronic anti-theft system .....	101
9.5 Fitting radios 08.98 ▶ in vehicles ▶ 07.98 .....	102
<b>10 Radio navigation system (RNS) with multi-function display (MFD)</b> .....	<b>104</b>
10.1 General notes .....	104
10.2 Removing and installing radio navigation system .....	105
10.3 Overview - radio navigation system connections .....	107
10.4 Electronic anti-theft system .....	110
10.5 Removing and installing traffic information control unit .....	111



<b>11</b>	<b>Radio navigation system (RNS) with monochrome display</b>	<b>112</b>
11.1	General notes	113
11.2	Removing and installing radio navigation system	114
11.3	Overview - radio navigation system connections	115
11.4	Electronic anti-theft system	118
<b>12</b>	<b>CD changer</b>	<b>120</b>
12.1	General notes	120
12.2	Removing and installing CD changer	120
<b>13</b>	<b>Multi-media system (Rear Seat Entertainment)</b>	<b>123</b>
13.1	General notes	123
13.2	Overview of the multi-media system	124
13.3	Removing and installing video recorder/DVD player	125
13.4	Removing and installing multi-media system operating unit	129
13.5	Removing and installing multi-media control unit	130
13.6	Removing and installing multi-media display units	131
<b>14</b>	<b>Loudspeaker systems</b>	<b>133</b>
14.1	Overview of loudspeaker system	133
14.2	Removing and installing loudspeakers in dash panel	134
14.3	Removing and installing front bass loudspeakers	134
14.4	Removing and installing rear wide-band loudspeakers	135
<b>15</b>	<b>Telephone systems</b>	<b>136</b>
15.1	General notes	136
15.2	Telephone preparation for vehicles with no radio	136
15.3	Telephone preparation for vehicles with "ALPHA" radio 08.98 ►	137
15.4	Telephone preparation for vehicles with "BETA" or "GAMMA" radio 08.98 ►	137
15.5	Telephone system for vehicles with no radio	138
15.6	Telephone system for vehicles with "ALPHA" radio 08.98 ►	138
15.7	Telephone system for vehicles with "BETA" or "GAMMA" radio 08.98 ►	139
15.8	Removing and installing telephone mounting ► 04.01	139
15.9	Removing and installing telephone mounting 05.01 ►	140
15.10	Removing and installing base plate of telephone mounting ► 04.01	140
15.11	Removing and installing base plate of telephone mounting 05.01 ►	141
15.12	Removing and installing telephone operating electronic control unit	141
15.13	Removing and installing telephone microphone ► 04.01	142
15.14	Removing and installing telephone microphone 05.01 ►	143
<b>16</b>	<b>Aerial systems</b>	<b>144</b>
16.1	General notes	144
16.2	Window aerial for the radio	144
16.3	Rod aerial for radio	145
16.4	Roof aerial for telephone and navigation system	148
16.5	Renewal of aerial wiring	149
<b>17</b>	<b>Notes on operating mobile telephones and two-way radios</b>	<b>150</b>
17.1	General notes	150
17.2	Note on performing repair work	151
17.3	Overview - battery, transmitter/receiver unit, fuse and wiring harness	152
17.4	Transmitting power and aerial fitting locations	153
<b>18</b>	<b>Suppression</b>	<b>154</b>
18.1	Suppression measures	154