

Contents

00 - Technical data	1
1 Safety information	1
1.1 Safety precautions when working on pyrotechnic components	1
1.2 Safety precautions when working on vehicles with start/stop system	3
1.3 Storing, transporting and disposing of airbag units, belt tensioner units and battery isolators (pyrotechnic components)	3
1.4 Additional safety regulations for side airbags	4
1.5 Additional safety regulations for curtain airbags	5
1.6 Safety regulations for crash sensors (pressure sensors) for front side airbag	5
1.7 Additional safety regulations for working on seat occupied sensor controlling deactivation of front passenger airbag - country-specific version	6
1.8 Procedure for dealing with seat occupied sensor controlling deactivation of front passenger airbag following an accident - country-specific version	6
1.9 Renewing pyrotechnic, electrical and mechanical components of the restraint system following an accident	7
1.10 Checking airbag mounting components following an accident	9
1.11 Accident in which no airbag was triggered	10
1.12 Checking seat belts	10
1.13 Checking belt webbing	10
1.14 Checking automatic belt retractor (locking action)	11
1.15 Visual inspection of belt buckle	12
1.16 Functional check of belt buckle	12
1.17 Checking guide fittings and latch plate	12
1.18 Checking securing components and anchorage points following an accident	12
1.19 Checking child seat restraint function of seat belt for additional child seats (not for driver seat belt; country-specific version)	13
1.20 Checking child seat anchors following an accident	13
1.21 Interior mirror	14
2 Repair instructions	15
2.1 Routing and attachment of pipes, hoses and wiring	15
2.2 Contact corrosion	15
68 - Interior equipment	16
1 Storage compartments/covers/trim panels	16
1.1 Overview of fitting locations - storage compartments/covers/trim panels	16
1.2 Assembly overview - dash panel cover (driver side)	17
1.3 Assembly overview - steering column trim	18
1.4 Assembly overview - glove compartment	19
1.5 Removing and installing dash panel cover (driver side)	21
1.6 Removing and installing gap cover for dash panel insert	23
1.7 Removing and installing dash panel cover (passenger side)	24
1.8 Removing and installing upper steering column trim	24
1.9 Removing and installing lower steering column trim	25
1.10 Removing and installing glove compartment opening mechanism	26
1.11 Removing and installing glove compartment	27
1.12 Removing and installing glove compartment cover	29
1.13 Removing and installing restrictor for glove compartment cover	29
2 Equipment	31
2.1 Assembly overview - sun visors	31
2.2 Removing and installing sun visor	32
2.3 Removing and installing sun visor centre mount	32
2.4 Removing and installing grab handle	33
3 Centre console	35
3.1 Assembly overview - centre console	35

3.2	Removing and installing rear centre console trim	40
3.3	Removing and installing cover for centre console	41
3.4	Removing and installing rear ashtray	41
3.5	Removing and installing front ashtray	42
3.6	Removing and installing ashtray trim (front)	43
3.7	Removing and installing centre console insert	43
3.8	Removing and installing front centre console storage compartment	45
3.9	Removing and installing air vent in centre console (rear)	45
3.10	Removing and installing centre console	46
3.11	Removing and installing trim panel for centre console	47
3.12	Removing and installing cup holder	49
3.13	Removing and installing rear centre console storage compartment	49
3.14	Removing and installing bracket for centre console	51
4	Front centre armrest	52
4.1	Assembly overview - front centre armrest	52
4.2	Removing and installing front centre armrest	53
4.3	Removing and installing upper part of centre armrest	53
4.4	Removing and installing trim for hinge arm	54
5	Interior mirror	56
5.1	Assembly overview - interior mirror	56
5.2	Removing and installing interior mirror	58
5.3	Switching automatic anti-dazzle function on and off	60
5.4	Switching compass display on and off	60
5.5	Setting magnetic deflection zone	60
5.6	Calibrating digital compass	61
5.7	Adjusting automatic anti-dazzle interior mirror for right-hand drive or left-hand drive vehicles	62
5.8	Selecting the applicable deflection zone from the map	63
5.9	Checking operation of automatic anti-dazzle interior mirror	68
69 - Passenger protection	70	
1	Seat belts	70
1.1	Overview of fitting locations - seat belts and anchorage points	70
1.2	Assembly overview - front three-point seat belt	71
1.3	Assembly overview - rear outer three-point seat belt	73
1.4	Assembly overview - front belt buckle	73
1.5	Assembly overview - rear belt buckle	74
1.6	Removing and installing front three-point seat belt	75
1.7	Removing and installing rear three-point seat belt	78
1.8	Removing and installing front belt guide	80
1.9	Removing and installing rear belt guide	81
1.10	Removing and installing front belt end fitting	82
1.11	Removing and installing rear outer belt end fitting	83
1.12	Removing and installing belt height adjuster	84
1.13	Removing and installing front belt buckle	86
1.14	Removing and installing rear belt buckle	88
2	Child seat anchors	89
2.1	Assembly overview - front child seat anchors	89
2.2	Assembly overview - rear child seat anchors	89
2.3	Removing and installing front child seat anchor	91
2.4	Removing and installing rear child seat anchor	92
3	Airbag system	93
3.1	Overview of fitting locations - airbag system	93
4	Airbag control unit	96
4.1	Assembly overview - airbag control unit	96

4.2	Removing and installing airbag control unit J234	96
5	Battery isolation igniter	99
5.1	Assembly overview - battery isolation igniter	99
5.2	Removing and installing battery isolation igniter	99
6	Driver airbag	103
6.1	Assembly overview - driver airbag	103
6.2	Removing and installing airbag unit with igniters	107
6.3	Renewing connector at airbag	113
7	Front passenger airbag	117
7.1	Assembly overview - front passenger airbag	117
7.2	Removing and installing front passenger airbag unit with igniters	118
7.3	Removing and installing key-operated switch to deactivate airbag on front passenger side	120
8	Side airbags	123
8.1	Assembly overview - front side airbag	123
8.2	Assembly overview - rear side airbag	124
8.3	Removing and installing front side airbag with igniter	124
8.4	Removing and installing rear side airbag with igniter	127
8.5	Deactivating rear side airbag	129
8.6	Activating rear side airbag	130
8.7	Sticker for deactivated rear side airbag	132
9	Curtain airbags	133
9.1	Assembly overview - curtain airbag	133
9.2	Removing and installing curtain airbag with igniter	134
10	Crash sensors for airbags	139
10.1	Overview of fitting locations - crash sensors for airbags	139
10.2	Removing and installing front airbag crash sensor for driver side G283	141
10.3	Removing and installing front side airbag crash sensor G179/G180	143
10.4	Removing and installing rear side airbag crash sensor G256/G257	145
11	Seat position sensor	147
11.1	Assembly overview - seat position sensor	147
11.2	Removing and installing seat position sensor	147
12	Belt-fastened recognition system	151
12.1	Removing and installing seat occupied sensor on front passenger side G128	151
70 - Trim, insulation	157	
1	Front door trim	157
1.1	Assembly overview - front door trim	157
1.2	Removing and installing mid-range loudspeaker trim	160
1.3	Removing and installing treble loudspeaker trim	161
1.4	Removing and installing bracket for treble loudspeaker	162
1.5	Removing and installing trim for front armrest	163
1.6	Removing and installing trim panel	163
1.7	Removing and installing front door trim	164
1.8	Removing and installing front armrest	168
1.9	Removing and installing front door puller	168
1.10	Removing and installing interior door handle	169
1.11	Removing and installing switch trim for driver seat memory operating unit E97	170
2	Rear door trim	171
2.1	Assembly overview - rear door trim	171
2.2	Removing and installing treble loudspeaker trim	173
2.3	Removing and installing rear armrest trim	174
2.4	Removing and installing rear door trim	174
2.5	Removing and installing rear armrest	177
2.6	Removing and installing rear door puller	178

3	Dash panel	180
3.1	Overview of fitting locations - dash panel	180
3.2	Assembly overview - dash panel	181
3.3	Removing and installing dash panel cover (side)	185
3.4	Removing and installing cover for MMI screen	185
3.5	Removing and installing loudspeaker trim	187
3.6	Removing and installing trim for light switch	189
3.7	Removing and installing mounting frame for radio/navigation system	189
3.8	Removing and installing trim for entry and start authorisation button	190
3.9	Removing and installing retaining frame for dash panel insert	191
3.10	Removing and installing dash panel	191
3.11	Removing and installing loudspeaker mounting	196
3.12	Removing and installing dash panel vents	196
3.13	Removing and installing front centre defroster vent	199
4	Central tube for dash panel	200
4.1	Assembly overview - central tube for dash panel	200
4.2	Removing and installing central tube for dash panel	202
4.3	Removing and installing mounting bracket	206
4.4	Removing and installing glove compartment bracket	207
5	Passenger compartment trim panels	208
5.1	Overview of fitting locations - passenger compartment trim panels	208
5.2	Assembly overview - sill panel moulding	209
5.3	Assembly overview - A-pillar trim	211
5.4	Assembly overview - B-pillar trim	212
5.5	Assembly overview - C-pillar trim	213
5.6	Assembly overview - D-pillar trim	214
5.7	Assembly overview - foot rest and floor covering	215
5.8	Assembly overview - rear shelf	216
5.9	Removing and installing sill panel moulding	217
5.10	Removing and installing A-pillar trim	220
5.11	Removing and installing gap cover for A-pillar	222
5.12	Removing and installing B-pillar trim	222
5.13	Removing and installing C-pillar trim	225
5.14	Removing and installing D-pillar trim	227
5.15	Removing and installing foot rest	228
5.16	Removing and installing floor covering	229
5.17	Removing and installing rear shelf	230
6	Luggage compartment trim panels	232
6.1	Overview of fitting locations - luggage compartment trim panels	232
6.2	Assembly overview - luggage compartment side trim	234
6.3	Assembly overview - luggage compartment floor	235
6.4	Assembly overview - lower rear lid trim	237
6.5	Assembly overview - upper rear lid trim	237
6.6	Assembly overview - lock carrier trim	238
6.7	Removing and installing lower rear lid trim	239
6.8	Removing and installing upper rear lid trim	241
6.9	Removing and installing lock carrier trim	242
6.10	Removing and installing fastening ring	244
6.11	Removing and installing bracket for fastening ring	244
6.12	Removing and installing bag hook	245
6.13	Removing and installing luggage compartment side trim	245
6.14	Removing and installing luggage compartment floor	247
6.15	Removing and installing retainer for luggage compartment floor	247
6.16	Removing and installing frame for loading aid	248
6.17	Removing and installing lining for spare wheel well	248

6.18	Removing and installing tail light cover	250
6.19	Removing and installing trim for rear lid lock	251
7	Roof trim panels	252
7.1	Overview of fitting locations - roof trim	252
7.2	Assembly overview - moulded headliner	252
7.3	Removing and installing moulded headliner	253
7.4	Attaching roof reinforcement to body	256
72 - Seat frames		260
1	Overview - seat versions	260
1.1	Overview of fitting locations - seat versions	260
1.2	Attaching front seat to seat repair stand	263
2	Front seats	265
2.1	Overview of fitting locations - electrical and electronic components	267
2.2	Assembly overview - front seat	271
2.3	Assembly overview - modular wire routing	281
2.4	Assembly overview - trim (sill side and tunnel side)	282
2.5	Assembly overview - retaining bracket for trim (sill side)	284
2.6	Assembly overview - seat height adjustment unit and seat height adjuster	286
2.7	Assembly overview - actuators for seat, backrest and head restraint adjustment	287
2.8	Assembly overview - torsion bar	288
2.9	Assembly overview - backrest cover panel	289
2.10	Assembly overview - front seat backrest	291
2.11	Assembly overview - head restraint	293
2.12	Assembly overview - seat pan	296
2.13	Assembly overview - spring mat	297
2.14	Assembly overview - seat longitudinal adjuster	298
2.15	Assembly overview - seat rake adjuster	299
2.16	Assembly overview - seat depth adjuster	300
2.17	Assembly overview - storage compartment	301
2.18	Assembly overview - lumbar support	302
2.19	Assembly overview - seat and steering column adjustment control unit with memory function	304
2.20	Assembly overview - control unit for seat ventilation and seat heating	305
2.21	Assembly overview - seat longitudinal adjustment motor	306
2.22	Assembly overview - backrest adjustment motor	307
2.23	Assembly overview - seat height adjustment motor	308
2.24	Assembly overview - seat rake adjustment motor	309
2.25	Assembly overview - seat cushion and backrest fans	310
2.26	Removing and installing front seat	312
2.27	Unplugging and plugging in connectors	321
2.28	Connecting and disconnecting airbag adapter	324
2.29	Coupling station connectors	326
2.30	Modular wire routing with corrugated tube on front seat	327
2.31	Removing and installing backrest adjustment unit	329
2.32	Removing and installing front seat backrest	330
2.33	Removing and installing head restraint	333
2.34	Removing and installing head restraint guide	336
2.35	Dismantling and assembling seat pan	342
2.36	Removing and installing actuator for backrest and head restraint adjustment	345
2.37	Removing and installing backrest cover panel	347
2.38	Removing and installing trim for outer backrest frame	353
2.39	Removing and installing spring mat	354
2.40	Removing and installing seat height adjuster	356
2.41	Removing and installing seat height adjustment unit	358
2.42	Removing and installing seat longitudinal adjustment handle	360

2.43	Removing and installing Bowden cable for seat longitudinal adjustment	362
2.44	Removing and installing lever for engaging Bowden cable and spring for seat longitudinal adjustment	364
2.45	Repairing seat longitudinal adjuster, renewing connecting rod	366
2.46	Removing and installing seat adjustment actuator	371
2.47	Removing and installing seat rake adjustment handle	372
2.48	Removing and installing seat rake adjustment unit	374
2.49	Removing and installing seat depth adjuster	375
2.50	Removing and installing trim for seat depth adjuster	380
2.51	Removing and installing seat rail cover	382
2.52	Removing and installing spindle cover (seat rail)	384
2.53	Removing and installing trim (sill side)	385
2.54	Removing and installing trim (tunnel side)	389
2.55	Removing and installing retaining bracket for trim (sill side)	392
2.56	Removing and installing torsion bar	393
2.57	Removing and installing bearing for torsion bar	399
2.58	Riveting pop rivet nut for retaining plate for DVD player to outer backrest frame	400
2.59	Removing and installing retaining plate for DVD player	401
2.60	Removing and installing storage compartment	402
2.61	Removing and installing seat and steering column adjustment control unit with memory function	405
2.62	Removing and installing retainer for seat and steering column adjustment control unit with memory function	407
2.63	Removing and installing control unit for seat ventilation and seat heating	409
2.64	Removing and installing seat longitudinal adjustment motor	411
2.65	Removing and installing backrest adjustment motor	411
2.66	Removing and installing seat height adjustment motor	416
2.67	Removing and installing seat rake adjustment motor	422
2.68	Removing and installing seat adjustment operating unit	425
2.69	Removing and installing lumbar support	425
2.70	Removing and installing lumbar support adjustment motor V125/V126/V129/V130	434
2.71	Removing and installing lumbar support adjustment switch E176/E177	434
2.72	Removing and installing seat cushion fan	436
2.73	Removing and installing backrest fan (top)	437
2.74	Removing and installing backrest fan (bottom)	437
3	Rear seats	439
3.1	Assembly overview - bench seat/individual seats	439
3.2	Assembly overview - locking mechanism	441
3.3	Assembly overview - head restraint and head restraint guide	442
3.4	Assembly overview - rear seat backrest	443
3.5	Assembly overview - centre armrest	446
3.6	Removing and installing bench seat/individual seats	449
3.7	Removing and installing head restraint	452
3.8	Removing and installing head restraint guide	453
3.9	Removing and installing rear seat backrest	454
3.10	Removing and installing trim for locking mechanism	455
3.11	Removing and installing locking mechanism for rear seat backrest	456
3.12	Removing and installing centre armrest	457
3.13	Removing and installing centre armrest with flap for load-through hatch	458
3.14	Removing and installing flap for load-through hatch	458
3.15	Checking floor panel for retainers and wire frame of bench seat and correcting any deformations	459
3.16	Removing and installing cover for centre mount	460
3.17	Removing and installing retaining clip	461
3.18	Removing and installing centre bracket	462
3.19	Removing and installing outer bearing	462
3.20	Removing and installing inner bearing	464

3.21	Removing and installing side padding	465
3.22	Removing and installing trim frame	465
3.23	Removing and installing intermediate padding	466
3.24	Removing and installing trim for cup holder	467
3.25	Removing and installing cup holder	468
3.26	Removing and installing storage compartment (cover for backrest bracket with lid)	468
3.27	Removing and installing cover	470
3.28	Removing and installing bracket	471
3.29	Removing and installing lid	474
3.30	Removing and installing trim for rear seat backrest bracket	474
3.31	Removing and installing cover for rear seat backrest bracket	476
74 -	Seat - padding, covers	478
1	Covers and padding on front seats	478
1.1	Assembly overview - seat pan cover and padding	478
1.2	Assembly overview - backrest cover and padding	482
1.3	Assembly overview - head restraint cover and padding	484
1.4	Assembly overview - seat heater elements	485
1.5	Assembly overview - backrest heater element	489
1.6	Removing and installing seat pan cover and padding	491
1.7	Removing and installing backrest cover and padding	498
1.8	Separating seat pan cover and padding	509
1.9	Separating backrest cover and padding	516
1.10	Removing and installing head restraint cover and padding	519
1.11	Removing and installing seat heater element Z6/Z8	523
1.12	Removing and installing backrest heater element Z7/Z9	529
2	Covers and padding on rear seats	532
2.1	Assembly overview - cover and padding	532
2.2	Assembly overview - head restraint cover and padding	537
2.3	Assembly overview - seat heater elements	537
2.4	Assembly overview - backrest heater element	538
2.5	Removing and installing cover and padding	540
2.6	Removing and installing intermediate padding - backrest with load-through hatch	545
2.7	Removing and installing upper and lower padding (backrest with cover for backrest bracket/storage compartment)	545
2.8	Detaching cover from padding	546
2.9	Removing and installing head restraint cover and padding	551
2.10	Removing and installing head restraint trim	555
2.11	Removing and installing long-arm spring for head restraint	556
2.12	Removing and installing seat heater element	556
2.13	Removing and installing backrest heater element	558