

Contents

00 - Technical data	1
1 Safety precautions	1
1.1 Safety precautions when working on vehicles with start/stop system	1
1.2 Safety precautions when working on high-voltage vehicles	2
1.3 Safety precautions when working on pyrotechnic components	3
1.4 Storing, transporting and disposing of airbag units, belt tensioner units and battery isolation units (pyrotechnic components)	5
1.5 Additional safety regulations for side airbags	5
1.6 Additional safety regulations for curtain airbags	6
1.7 Safety regulations for crash sensors (pressure sensors) for side airbag (front)	6
1.8 Additional safety regulations for working on seat occupied sensor controlling deactivation of front passenger airbag - country-specific version	7
1.9 Procedure for dealing with seat occupied sensor controlling deactivation of front passenger airbag following an accident - country-specific version	7
1.10 Renewing pyrotechnic, electrical and mechanical components of the restraint system following an accident	8
1.11 Checking airbag mounting components following an accident	9
1.12 Accident in which no airbag was triggered	10
1.13 Checking seat belts	10
1.14 Checking belt	10
1.15 Checking automatic belt retractor (locking action)	11
1.16 Visual inspection of belt buckle	12
1.17 Functional check of belt buckle	12
1.18 Checking guide fittings and latch plate	12
1.19 Checking securing components and anchorage points following an accident	13
1.20 Checking child seat restraint function of seat belt for additional child seats (not for driver's seat belt; country-specific version)	13
1.21 Checking child seat anchors following an accident	13
1.22 Interior mirror	14
2 Repair notes	15
2.1 Contact corrosion	15
2.2 Routing and attaching lines and wiring	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 Exploded view - dash panel cover (driver side)	17
1.3 Exploded view - steering column trim	18
1.4 Exploded view - glove box	19
1.5 Removing and installing dash panel cover (driver side)	21
1.6 Removing and installing trim for headlight range control regulator E102	22
1.7 Making opening for headlight range control regulator E102 in dash panel cover	22
1.8 Removing and installing trim cover for dash panel insert	23
1.9 Removing and installing dash panel cover (passenger side)	23
1.10 Removing and installing steering column trim (top)	24
1.11 Removing and installing steering column trim (bottom)	24
1.12 Removing and installing glove box opening mechanism	25
1.13 Removing and installing glove box	26
1.14 Removing and installing storage box in glove box	27
1.15 Removing and installing glove box lid	27
1.16 Removing and installing cushioning element for glove box lid	28
2 Equipment	29
2.1 Exploded view - load guard	29
2.2 Exploded view - sun visors	29



2.3	Removing and installing bracket for load guard	30
2.4	Removing and installing sun visor	30
2.5	Removing and installing centre bracket for sun visor	31
2.6	Removing and installing grab handle	31
3	Centre console	33
3.1	Overview of fitting locations - centre console	33
3.2	Exploded view - centre console	34
3.3	Removing and installing centre console trim (rear)	39
3.4	Removing and installing ashtray (front)	41
3.5	Removing and installing ashtray trim (front)	41
3.6	Removing and installing ashtray (rear)	42
3.7	Removing and installing centre console insert	42
3.8	Removing and installing centre console storage compartment (front)	43
3.9	Removing and installing sliding cover for centre console	43
3.10	Removing and installing trim panel for centre console	44
3.11	Removing and installing air vent in centre console (rear)	44
3.12	Removing and installing air-outlet grille	45
3.13	Removing and installing centre console	45
3.14	Removing and installing cup holder	46
3.15	Removing and installing centre console storage compartment (rear)	47
3.16	Removing and installing bracket for centre console	48
3.17	Removing and installing bag hook	49
3.18	Removing and installing switch trim	49
4	Centre armrest (front)	51
4.1	Exploded view - centre armrest (front)	51
4.2	Removing and installing centre armrest (front)	52
4.3	Removing and installing centre armrest (top section)	52
4.4	Removing and installing trim for hinge arm	53
5	Interior mirror	54
5.1	Exploded view - interior mirror	54
5.2	Removing and installing interior mirror	55
5.3	Switching automatic anti-dazzle function on and off	56
5.4	Switching compass display on and off	56
5.5	Setting magnetic deflection zone	57
5.6	Calibrating digital compass	57
5.7	Adjusting automatic anti-dazzle interior mirror for right-hand drive or left-hand drive vehicles	58
5.8	Selecting the applicable deflection zone from the map	58
5.9	Checking operation of automatic anti-dazzle interior mirror	64
69	Passenger protection	66
1	Seat belts	66
1.1	Overview of fitting locations - seat belts and anchorage points	66
1.2	Exploded view - three-point seat belt (front)	67
1.3	Exploded view - outer three-point seat belt (rear)	68
1.4	Exploded view - centre three-point seat belt (rear)	69
1.5	Exploded view - belt buckle (front)	70
1.6	Exploded view - belt buckle (rear)	71
1.7	Removing and installing three-point seat belt (front)	72
1.8	Removing and installing three-point seat belt (rear)	74
1.9	Removing and installing belt guide (front)	77
1.10	Removing and installing belt guide (rear)	77
1.11	Removing and installing belt end fitting (front)	78
1.12	Removing and installing outer belt end fitting (rear)	79
1.13	Removing and installing centre belt end fitting (rear)	79
1.14	Removing and installing belt height adjuster	79

1.15	Removing and installing belt buckle (front)	81
1.16	Removing and installing belt buckle (rear)	82
2	Child seat anchors	84
2.1	Exploded view - child seat anchors (front)	84
2.2	Exploded view - child seat anchors (rear)	85
2.3	Removing and installing child seat anchor (front)	86
2.4	Removing and installing child seat anchor (rear)	88
3	Airbag system	90
3.1	Overview of fitting locations - airbag system	90
4	Airbag control unit	92
4.1	Exploded view - airbag control unit	92
4.2	Removing and installing airbag control unit J234	92
5	Battery isolation igniter	95
5.1	Exploded view - battery isolation igniter	95
5.2	Removing and installing battery isolation igniter	95
6	Airbag (driver side)	98
6.1	Exploded view - airbag (driver side)	98
6.2	Removing and installing airbag unit with igniters	100
6.3	Renewing connector at airbag	105
7	Airbag (front passenger side)	109
7.1	Exploded view - airbag (front passenger side)	109
7.2	Removing and installing airbag unit (front passenger side) with igniters	110
7.3	Removing and installing key operated switch to deactivate airbag on front passenger side	112
8	Side airbags	115
8.1	Exploded view - side airbag (front)	115
8.2	Exploded view - side airbag (rear)	116
8.3	Removing and installing side airbag (front) with airbag igniter	116
8.4	Removing and installing side airbag (rear) with airbag igniter	118
8.5	Removing and installing bracket (top) for side airbag (rear)	120
8.6	Removing and installing bracket (bottom) for side airbag (rear)	120
8.7	Deactivating side airbag (rear)	120
8.8	Activating side airbag (rear)	122
9	Curtain airbags	125
9.1	Exploded view - curtain airbag	125
9.2	Removing and installing curtain airbag with airbag igniter	127
10	Crash sensors for airbags	135
10.1	Overview of fitting locations - crash sensors for airbags	135
10.2	Removing and installing front airbag crash sensor for driver side G283	136
10.3	Removing and installing front side airbag crash sensor G179 / G180	138
10.4	Removing and installing crash sensor for side airbag (rear) G256 / G257	139
11	Seat position sensor	142
11.1	Exploded view - seat position sensor	142
11.2	Removing and installing seat position sensor	142
12	Belt-fastened recognition system	148
12.1	Removing and installing seat occupied sensor (front passenger side) G128	148
13	Seat occupied recognition system	150
13.1	Overview of fitting locations - seat occupied recognition system	150
13.2	Removing and installing seat occupied sensor	152
70	Trim, insulation	156
1	Door trim (front)	156
1.1	Exploded view - door trim (front)	156
1.2	Removing and installing mid-range loudspeaker trim	159



1.3	Removing and installing treble loudspeaker trim	160
1.4	Removing and installing trim panel	160
1.5	Removing and installing door trim (front)	161
1.6	Removing and installing armrest (front)	163
1.7	Removing and installing door puller (front)	164
1.8	Removing and installing interior door handle	164
1.9	Removing and installing window frame trim	165
1.10	Removing and installing trim with rear lid remote release switch E188	166
1.11	Removing and installing switch trim for driver seat memory operating unit E97	167
1.12	Making opening in door trim for switch E183 / E217	167
2	Door trim (rear)	168
2.1	Exploded view - door trim (rear)	168
2.2	Exploded view - sun blind for door window	170
2.3	Removing and installing treble loudspeaker trim	171
2.4	Removing and installing door trim (rear)	172
2.5	Removing and installing armrest (rear)	174
2.6	Removing and installing door puller (rear)	175
2.7	Removing and installing window frame trim	175
2.8	Removing and installing sun blind for door window	177
2.9	Removing and installing retainer for sun blind	178
3	Dash panel	179
3.1	Overview of fitting locations - dash panel	179
3.2	Exploded view - dash panel	180
3.3	Removing and installing dash panel cover (side)	183
3.4	Removing and installing trim panel for dash panel	183
3.5	Removing and installing cover for MMI screen	184
3.6	Removing and installing loudspeaker trim	185
3.7	Removing and installing mounting frame for radio/navigation system	186
3.8	Removing and installing trim for entry and start authorisation switch	186
3.9	Removing and installing dash panel	187
3.10	Removing and installing dash panel vents	191
3.11	Removing and installing defroster vent (front centre)	193
4	Central tube for dash panel	194
4.1	Exploded view - central tube for dash panel	194
4.2	Exploded view - impact dampers and glove box brackets	195
4.3	Removing and installing central tube for dash panel	196
4.4	Removing and installing mounting bracket	199
4.5	Removing and installing impact dampers	200
4.6	Removing and installing glove box bracket(s)	201
5	Passenger compartment trim panels	202
5.1	Overview of fitting locations - passenger compartment trim panels	202
5.2	Exploded view - sill panel trim	203
5.3	Exploded view - A-pillar trim	205
5.4	Exploded view - B-pillar trim	206
5.5	Exploded view - C-pillar trim	207
5.6	Exploded view - D-pillar trim	208
5.7	Exploded view - foot rest and floor covering	209
5.8	Removing and installing sill panel trim	210
5.9	Removing and installing A-pillar trim	215
5.10	Removing and installing B-pillar trim	217
5.11	Removing and installing C-pillar trim	219
5.12	Removing and installing D-pillar trim	220
5.13	Removing and installing foot rest	222
5.14	Removing and installing floor covering	222
6	Luggage compartment trim panels	224

6.1	Overview of fitting locations - luggage compartment trim panels	224
6.2	Exploded view - luggage compartment cover	225
6.3	Exploded view - luggage compartment side trim	227
6.4	Exploded view - luggage compartment floor	228
6.5	Exploded view - rear lid trim (bottom)	232
6.6	Exploded view - rear lid trim (top)	233
6.7	Exploded view - lock carrier trim	234
6.8	Removing and installing rear lid trim (bottom)	235
6.9	Removing and installing cover for manual release mechanism for rear lid	236
6.10	Removing and installing rear lid trim (top)	237
6.11	Removing and installing luggage compartment side trim	238
6.12	Removing and installing luggage compartment floor	240
6.13	Removing and installing tool box	241
6.14	Removing and installing retainer for luggage compartment floor covering	242
6.15	Removing and installing lock carrier trim	245
6.16	Removing and installing fastening ring	248
6.17	Removing and installing bag hook	248
6.18	Removing and installing trim cover	249
6.19	Removing and installing retaining rail	249
6.20	Removing and installing lining for spare wheel well	250
6.21	Removing and installing cover for battery recess	250
6.22	Removing and installing cover for warning triangle	251
6.23	Removing and installing tail light cover	251
6.24	Removing and installing trim for rear lid lock	252
7	Roof trim panels	253
7.1	Overview of fitting locations - roof trim	253
7.2	Exploded view - roof end trim	254
7.3	Exploded view - moulded headliner	254
7.4	Removing and installing roof end trim	255
7.5	Removing and installing moulded headliner	256
7.6	Attaching roof reinforcement to body	259
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	262
2	Front seats	263
2.1	Overview of fitting locations - electrical and electronic components	265
2.2	Exploded view - front seat	269
2.3	Exploded view - modular wire routing	278
2.4	Exploded view - front seat backrest	278
2.5	Exploded view - head restraint	280
2.6	Exploded view - seat pan	281
2.7	Exploded view - trim (sill side and tunnel side)	282
2.8	Exploded view - actuators for seat, backrest and head restraint adjustment	287
2.9	Exploded view - spring mat	288
2.10	Exploded view - seat height adjustment unit	289
2.11	Exploded view - seat rake adjuster	290
2.12	Exploded view - seat depth adjuster	291
2.13	Exploded view - lumbar support	292
2.14	Exploded view - drawer	293
2.15	Exploded view - storage compartment	294
2.16	Exploded view - seat and steering column adjustment control unit with memory function	295
2.17	Exploded view - seat longitudinal adjustment motor	296
2.18	Exploded view - backrest adjustment motor	297



2.19	Exploded view - seat height adjustment motor	298
2.20	Exploded view - seat rake adjustment motor	299
2.21	Exploded view - backrest cover panel	300
2.22	Removing and installing front seat	301
2.23	Unplugging and plugging in connectors at connector point	309
2.24	Connecting and disconnecting airbag adapter	312
2.25	Removing and installing seat height adjustment unit	314
2.26	Removing and installing seat rake adjuster	315
2.27	Removing and installing backrest adjustment unit	321
2.28	Removing and installing front seat backrest	322
2.29	Removing and installing backrest release mechanism	326
2.30	Removing and installing backrest cover panel	326
2.31	Removing and installing backrest cover panel (side)	328
2.32	Removing and installing spring mat	328
2.33	Riveting pop rivet nut for retaining plate for DVD player to outer backrest frame (retrofit)	330
2.34	Removing and installing retaining plate for DVD player	331
2.35	Removing and installing backrest fan (top)	332
2.36	Removing and installing backrest fan (bottom)	332
2.37	Removing and installing head restraint	332
2.38	Removing and installing head restraint guide	333
2.39	Dismantling and assembling seat pan	335
2.40	Modular wire routing with corrugated tube on front seat	340
2.41	Removing and installing seat longitudinal adjustment handle	343
2.42	Removing and installing seat rail cover	343
2.43	Removing and installing trim (sill side)	343
2.44	Removing and installing trim (tunnel side)	347
2.45	Removing and installing seat adjustment operating unit	349
2.46	Removing and installing mounting for drawer	350
2.47	Removing and installing storage compartment	350
2.48	Removing and installing seat depth adjuster	352
2.49	Removing and installing trim for seat depth adjuster	355
2.50	Removing and installing seat and steering column adjustment control unit with memory function	357
2.51	Removing and installing retainer for seat and steering column adjustment control unit with memory function	359
2.52	Removing and installing control unit for seat ventilation and seat heating	361
2.53	Removing and installing seat cushion fan	363
2.54	Removing and installing lumbar support adjustment switch E176 / E177	363
2.55	Removing and installing seat height adjustment motor	365
2.56	Removing defective seat height adjustment motor	367
2.57	Removing and installing backrest adjustment motor	368
2.58	Removing and installing lumbar support adjustment motor V125 / V126 / V129 / V130	371
3	Rear seats	374
3.1	Overview of fitting locations - seat bench/individual seats	374
3.2	Exploded view - seat bench/individual seats	376
3.3	Exploded view - locking mechanism	377
3.4	Exploded view - head restraint and head restraint guide	378
3.5	Exploded view - rear seat backrest	379
3.6	Exploded view - flap for load-through hatch	380
3.7	Exploded view - centre armrest	381
3.8	Removing and installing seat bench/individual seats	382
3.9	Removing and installing rear seat	383
3.10	Removing and installing head restraint	384
3.11	Removing and installing head restraint guide	386
3.12	Removing and installing outer cover panel	387

3.13	Removing and installing inner cover panel	387
3.14	Removing and installing rear seat backrest	388
3.15	Removing and installing release handle	389
3.16	Removing and installing release lever	389
3.17	Removing and installing Bowden cable (bottom)	390
3.18	Removing and installing actuator for backrest release mechanism	390
3.19	Removing and installing Bowden cable (top)	391
3.20	Removing and installing bracket for actuator	391
3.21	Removing and installing lock for flap for load-through hatch	392
3.22	Removing and installing flap for load-through hatch	392
3.23	Removing and installing trim for centre armrest	393
3.24	Removing and installing centre armrest	393
3.25	Removing and installing trim for cup holder	394
3.26	Removing and installing cup holder	395
3.27	Removing and installing seat heating control unit J882	395
74	Seat - padding, covers	397
1	Covers and padding on front seats	397
1.1	Exploded view - seat pan cover and padding	397
1.2	Exploded view - backrest cover and padding	399
1.3	Exploded view - head restraint cover and padding	401
1.4	Overview - seat heating elements	402
1.5	Overview - backrest heating element	404
1.6	Removing and installing seat pan cover and padding	406
1.7	Removing and installing backrest cover and padding	413
1.8	Separating seat pan cover and padding	420
1.9	Separating backrest cover and padding	421
1.10	Removing and installing head restraint cover and padding	422
1.11	Removing and installing seat heating element Z6 / Z8	425
1.12	Removing and installing backrest heating element Z7 / Z9	427
2	Covers and padding on rear seats	429
2.1	Exploded view - covers and padding	429
2.2	Exploded view - head restraint cover and padding	433
2.3	Overview - seat heating element	434
2.4	Overview - backrest heating element	435
2.5	Removing and installing cover and padding	436
2.6	Bonding luggage compartment lining to outer backrest frame	438
2.7	Bonding luggage compartment lining to flap for load-through hatch	439
2.8	Detaching cover from padding	439
2.9	Removing and installing head restraint cover and padding	441
2.10	Removing and installing seat heating elements	442
2.11	Removing and installing backrest heating element	443