



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Electrical components</b>	<b>1</b>
1.1 Starting diagnosis	1
<b>40 - Front suspension</b>	<b>3</b>
<b>1 Safety information and repair notes</b>	<b>3</b>
1.1 Safety information	3
1.2 Repair notes	3
<b>2 Front axle</b>	<b>4</b>
2.1 Overview of fitting locations – front axle, rear-wheel drive	4
2.2 Overview of fitting locations – front axle, all-wheel drive	5
<b>3 Subframe</b>	<b>6</b>
3.1 Assembly overview – subframe	6
3.2 Removing and installing subframe with steering rack	8
3.3 Repairing thread in longitudinal member	14
3.4 Fixing subframe in position	14
3.5 Lowering subframe	18
3.6 Preparing scissor-type assembly platform	18
3.7 Taking up weight of subframe using scissor-type assembly platform	20
3.8 Removing and installing subframe with electric motor	21
3.9 Renewing front motor mounting, all-wheel drive	33
3.10 Supporting components in vehicle front end	34
<b>4 Suspension strut, upper suspension link</b>	<b>40</b>
4.1 Removing and installing suspension strut	40
4.2 Exploded view - suspension strut	55
4.3 Removing and installing spring	57
4.4 Removing and installing suspension strut	61
<b>5 Lower suspension link, swivel joint</b>	<b>71</b>
5.1 Assembly overview – suspension link, swivel joint	71
5.2 Removing and installing suspension link	73
5.3 Removing and installing swivel joint	74
5.4 Removing and installing stone deflector for suspension link	76
5.5 Renewing suspension link mounting, rear	77
5.6 Renewing front suspension link mounting	80
<b>6 Wheel bearing</b>	<b>83</b>
6.1 Assembly overview – wheel bearing assembly, rear-wheel drive	83
6.2 Assembly overview - wheel bearing, all wheel drive	83
6.3 Removing and installing wheel bearing housing	84
6.4 Removing and installing wheel bearing unit	89
6.5 Loosening and tightening threaded connections of wheel bearings	90
<b>7 Drive shaft</b>	<b>93</b>
7.1 Assembly overview – drive shaft	93
7.2 Removing and installing drive shaft	94
7.3 Loosening and tightening threaded connections of drive shaft	99
7.4 Dismantling and assembling drive shaft	101
7.5 Tightening clamp for boot	107
<b>8 Anti-roll bar</b>	<b>109</b>
8.1 Exploded view - anti-roll bar	109
8.2 Removing and installing anti-roll bar	109
8.3 Removing and installing coupling rod	111
<b>42 - Rear suspension</b>	<b>113</b>



<b>1</b>	<b>Safety information and repair notes</b>	<b>113</b>
1.1	Safety information	113
1.2	Repair notes	113
<b>2</b>	<b>Rear axle</b>	<b>114</b>
2.1	Overview of fitting locations – rear axle	114
2.2	Removing and installing rear axle	116
2.3	Lowering rear axle	121
2.4	Securing vehicle to support arms of lifting platform	126
<b>3</b>	<b>Subframe</b>	<b>129</b>
3.1	Fixing subframe in position	129
3.2	Assembly overview – subframe mountings	131
3.3	Assembly overview – subframe	132
3.4	Preparing scissor-type assembly platform	133
3.5	Taking up weight of subframe using scissor-type assembly platform	136
3.6	Renewing gearbox mounting	137
3.7	Renewing motor mountings	144
3.8	Renewing front subframe mountings	153
3.9	Renewing rear subframe mountings	160
<b>4</b>	<b>Anti-roll bar</b>	<b>169</b>
4.1	Assembly overview – anti-roll bar	169
4.2	Removing and installing anti-roll bar	171
4.3	Removing and installing coupling rod	172
<b>5</b>	<b>Suspension link, track rod</b>	<b>175</b>
5.1	Assembly overview ? suspension link	175
5.2	Removing and installing track rod	176
5.3	Exploded view - track rod	178
5.4	Removing and installing stone deflector for spring control arm	179
5.5	Exploded view - spring control arm	180
5.6	Removing and installing spring control arm	181
5.7	Removing and installing lower suspension link	184
5.8	Removing and installing upper rear suspension link	186
5.9	Removing and installing upper front suspension link	188
<b>6</b>	<b>Suspension strut, shock absorber, spring</b>	<b>190</b>
6.1	Removing and installing shock absorber	190
6.2	Removing and installing spring	192
6.3	Exploded view - shock absorber	196
6.4	Assembly overview – spring	196
6.5	Renewing shock absorber	197
<b>7</b>	<b>Wheel bearing assembly, trailing arm</b>	<b>202</b>
7.1	Assembly overview – wheel bearing assembly	202
7.2	Removing and installing wheel bearing housing	202
7.3	Removing and installing wheel bearing unit	205
7.4	Raising wheel bearing assembly to unladen position	207
<b>8</b>	<b>Drive shaft</b>	<b>211</b>
8.1	Assembly overview – drive shaft	211
8.2	Removing and installing drive shaft	212
8.3	Loosening and tightening threaded connections of drive shaft	219
8.4	Dismantling and assembling drive shaft	221
8.5	Tightening clamp for boot	227
<b>43 -</b>	<b>Self-levelling suspension</b>	<b>229</b>
<b>1</b>	<b>Safety information and repair notes</b>	<b>229</b>
1.1	Safety information	229
1.2	Repair notes	229



<b>2</b>	<b>Electronic damping control</b>	<b>230</b>
2.1	Overview of fitting locations - damping control	230
2.2	Assembly overview – electronically controlled damping control unit	232
2.3	Removing and installing electronically controlled damping control unit [J250]	232
2.4	Removing and installing front body acceleration senders G341/G342	233
2.5	Removing and installing rear body acceleration sender G343	234
2.6	Exploded view - damping control	235
<b>3</b>	<b>Vehicle level sender</b>	<b>237</b>
3.1	Exploded view - front vehicle level senders	237
3.2	Assembly overview – rear vehicle level senders	237
3.3	Removing and installing front vehicle level senders G78/G289	238
3.4	Removing and installing rear vehicle level senders G76/G77	240
<b>44</b>	<b>Wheels, tyres, vehicle geometry</b>	<b>242</b>
<b>1</b>	<b>Safety information and repair notes</b>	<b>242</b>
1.1	Safety information	242
1.2	Repair notes	242
<b>2</b>	<b>Wheel alignment</b>	<b>243</b>
2.1	Notes on wheel alignment	243
2.2	Test requirements	243
2.3	Specifications for wheel alignment	243
2.4	Setting vehicle to initial position for wheel alignment	245
2.5	When does wheel alignment have to be checked?	245
2.6	Adjusting camber at front wheels	246
2.7	Adjusting camber at rear wheels	247
2.8	Adjusting toe setting at rear wheels	248
2.9	Adjusting toe setting at front wheels	249
2.10	Checking full steering lock	249
2.11	Preparations for measurement	250
<b>3</b>	<b>Wheels, tyres</b>	<b>251</b>
3.1	Removing wheel	251
3.2	Installing wheel	251
<b>48</b>	<b>Steering</b>	<b>253</b>
<b>1</b>	<b>Safety information and repair notes</b>	<b>253</b>
1.1	Safety information	253
1.2	Repair notes	253
<b>2</b>	<b>Steering wheel</b>	<b>254</b>
2.1	Exploded view - steering wheel	254
2.2	Removing and installing steering wheel	254
<b>3</b>	<b>Steering column</b>	<b>256</b>
3.1	Assembly overview – steering column	256
3.2	Removing and installing steering column	260
3.3	Removing and installing intermediate steering shaft	263
3.4	Removing and installing control unit for electronic steering column lock [J764]	265
<b>4</b>	<b>Steering rack</b>	<b>270</b>
4.1	Assembly overview ? steering rack	270
4.2	Removing and installing steering rack, all-wheel drive	271
4.3	Removing and installing steering rack, rear-wheel drive	273
4.4	Removing and installing boot	277
4.5	Removing and installing track rod	279
4.6	Removing and installing track rod ball joint	281
4.7	Servicing steering rack	283
4.8	Exploded view - track rods	284