

Contents

00 - Technical data	1
1 Safety instructions	1
1.1 Safety precautions for working on vehicles with start-stop system	1
1.2 Safety precautions when working on subframe	1
2 Appraisal of accident vehicles	2
2.1 Checklist for evaluating running gear on accident vehicles	2
3 Repair notes	4
3.1 Leaks at shock absorbers	4
3.2 Noises from shock absorbers	4
3.3 Checking shock absorbers when removed	5
3.4 Steering box	5
3.5 Gaskets, seals	6
3.6 Bolts, nuts	6
3.7 Electrical components	6
3.8 Lifting suspension to kerb weight position (vehicles with coil springs)	7
4 Disposal	12
4.1 Releasing gas and draining gas-filled shock absorbers (front)	12
4.2 Releasing gas from rear gas-filled shock absorber and draining	14
40 - Front suspension	16
1 Front axle	16
1.1 Overview - front axle	16
2 Sub-frame	17
2.1 Assembly overview - subframe	17
2.2 Secure the subframe	19
2.3 Lowering subframe	21
2.4 Removing and installing subframe without steering box	22
2.5 Removing and installing anti-roll bar	25
2.6 Renewing anti-roll bar bushes	26
3 Suspension strut, upper suspension link	29
3.1 Assembly overview - suspension strut, upper suspension link	29
3.2 Removing and installing suspension strut	30
3.3 Suspension strut - Repair	36
4 Lower suspension link, swivel joint	40
4.1 Assembly overview - lower suspension link, swivel joint	40
4.2 Removing and installing lower suspension link	41
4.3 Renewing bonded rubber bush for lower suspension link	43
4.4 Checking swivel joint	48
4.5 Removing and installing swivel joint	48
5 Wheel bearing unit	54
5.1 Assembly overview - wheel bearing	54
5.2 Renewing wheel bearing	56
5.3 Removing and installing wheel bearing housing	69
6 Drive shaft	76
6.1 Assembly overview - drive shaft	76
6.2 Removing and installing drive shaft	78
6.3 Removing and installing joint	81
6.4 Dismantling and assembling drive shaft	84
6.5 Checking outer constant velocity joint	89
42 - Rear suspension	91
1 Rear axle	91

1.1	Overview - rear axle	91
1.2	Lowering rear axle	91
1.3	Removing and installing rear axle	94
2	Axle beam	99
2.1	Assembly overview - axle beam	99
2.2	Renewing bonded rubber bush for axle beam	101
3	Suspension strut, shock absorber, spring	106
3.1	Assembly overview - suspension strut, shock absorber, spring	106
3.2	Shock absorber: removing and fitting	107
3.3	Repairing shock absorber	110
3.4	Removing and installing spring	112
4	Wheel bearing, trailing arm	114
4.1	Assembly overview - wheel bearing	114
4.2	Removing and installing wheel bearing unit	115
44	Wheels, tyres, vehicle geometry	118
1	Wheel alignment	118
1.1	Notes for wheel alignment	118
1.2	Test conditions	118
1.3	Preparing for measuring	119
1.4	Specified values for wheel alignment	120
1.5	Wheel alignment procedure	122
1.6	Necessity of wheel alignment	123
1.7	Vehicle data label	124
1.8	Front axle camber: correction	124
1.9	Adjusting camber at rear wheels	126
1.10	Adjusting toe setting at rear wheels	126
1.11	Adjusting front axle convergence	126
1.12	Wheel runout compensation	126
1.13	Checking full wheel lock	127
48	Steering	128
1	Steering wheel	128
1.1	Assembly overview - steering wheel	128
1.2	Steering wheel: removing and fitting	128
2	Steering column	131
2.1	Assembly overview - steering column	131
2.2	Steering column: removing and fitting	138
2.3	Handling and transporting steering column	159
2.4	Removing and installing power steering control unit J500	161
2.5	Removing and installing intermediate steering shaft	173
3	Steering box	175
3.1	Assembly overview - steering box	175
3.2	Removing and installing steering box	176
3.3	Repairing steering box	179
3.4	Removing and installing coupling rod (for anti-roll bar)	181
3.5	Removing and installing track rod ball joint	183
3.6	Adjusting steering box	185