

Contents

00 - Technical data	1
1 Technical data	1
1.1 Technical data	1
1.2 Running gear	1
1.3 Wheels, tyres	1
1.4 Steering	1
2 Prescribed disposal procedure for oil-filled components	2
2.1 Prescribed disposal procedure for oil-filled components	2
2.2 Releasing gas from front gas-filled shock absorber	2
2.3 Releasing gas from rear gas-filled shock absorber	3
2.4 Draining steering damper	4
2.5 Draining power-assisted steering box	5
3 Checking shock absorbers	6
3.1 Checking shock absorbers	6
3.2 Shock absorber leakage	6
3.3 Shock absorber noise	7
3.4 Checking shock absorber following removal	7
3.5 Checking shock absorber on shock tester	7
4 Attachment of subframe to body	9
4.1 Attachment of subframe to body	9
4.2 Subframe attachment with M10 bolts	9
4.3 Subframe attachment with M12 bolts	9
40 - Front suspension	11
1 Exploded view of suspension strut and drive shaft	11
1.1 Exploded view of suspension strut and drive shaft	11
1.2 Servicing suspension strut	20
1.3 Servicing drive shaft with constant velocity joint	25
1.4 Servicing drive shaft with triple roller joint	34
1.5 Dismantling and assembling triple roller joint	44
2 Removing and installing wheel bearing housing	49
2.1 Removing and installing wheel bearing housing	49
2.2 Pressing out and pressing in wheel hub and wheel bearing - vehicles with 4 and 5-cyl. engine	53
2.3 Pressing out and pressing in wheel hub and wheel bearing - vehicles with 6-cyl. engine ..	57
3 Removing and installing subframe	61
3.1 Removing and installing subframe	61
3.2 Servicing forged link	76
42 - Rear suspension	80
1 Servicing rear axle	80
1.1 Servicing rear axle	80
1.2 Removing and installing rear axle	86
2 Removing and installing suspension strut	88
2.1 Removing and installing suspension strut	88
2.2 Servicing suspension strut	89
3 Removing and installing rear wheel bearing	94
3.1 Removing and installing rear wheel bearing	94
44 - Wheels, Tyres, Wheel alignment	100
1 Wheels and tyres	100
1.1 Wheels and tyres	100
1.2 Tyres and rims	101



1.3	Balancing wheels on vehicle	103
2	Wheel alignment	104
2.1	Wheel alignment	104
2.2	Test requirements:	104
2.3	Wheel alignment specifications	105
2.4	Calculation of setting	105
2.5	Adjusting front axle toe	106
2.6	Adjusting front axle camber	111
48	- Steering	114
1	Steering column and steering wheel	114
1.1	Steering column and steering wheel	114
1.2	Safety precautions when working on airbags	114
1.3	Removing and installing four-spoke steering wheel - vehicles not fitted with airbag	115
1.4	Removing and installing sports steering wheel - vehicles not fitted with airbag	117
1.5	Removing and installing polished wood steering wheel - vehicles not fitted with airbag	121
1.6	Removing and installing driver's airbag unit - airbag II	125
1.7	Removing and installing steering wheel - airbag II	129
1.8	Removing and installing driver's airbag unit äapprox. 07.97 - airbag IV and V	131
1.9	Removing and installing steering wheel äapprox. 07.97- airbag IV and V	134
1.10	Removing and installing driver's airbag unit with sports steering wheel äapprox. 07.97 - airbag IV and V	137
1.11	Removing and installing sports steering wheel äapprox. 07.97 - airbag IV and V	140
1.12	Removing and installing driver's airbag unit approx. 08.97>	142
1.13	Removing and installing steering wheel approx. 08.97ä	145
1.14	Removing and installing driver's airbag unit with sports steering wheel approx. 08.97ä	148
1.15	Removing and installing sports steering wheel approx. 08.97ä	151
1.16	Exploded view of steering column with column tube	153
1.17	Removing and installing steering column with column tube	158
2	Power-assisted steering box	164
2.1	Power-assisted steering box	164
2.2	Exploded view of power-assisted steering box	164
2.3	Removing and installing track rod end	174
2.4	Rules for cleanliness	176
2.5	Removing and installing power-assisted steering box	176
2.6	Servicing power-assisted steering box	183
2.7	Replacing sealing ring in valve housing	191
2.8	Inserting rack	193
2.9	Adjusting power-assisted steering box	195
3	Exploded view of vane pump	196
3.1	Exploded view of vane pump	196
3.2	Vehicles with 4-cyl. 2V, 4-cyl. 4V and TDI engine	196
3.3	Vehicles with 5-cylinder engine	203
3.4	Vehicles with 6-cylinder engine	209
3.5	Checking delivery pressure of vane pump	216
4	Exploded view of plunger pump	222
4.1	Exploded view of plunger pump	222
4.2	Vehicles with 4-cylinder 5V engine	222
5	Exploded view of fluid	229
5.1	Exploded view of fluid	229
5.2	Exploded view of fluid reservoir	229
6	Hydraulic circuit	232
6.1	Hydraulic circuit	232
6.2	Front-end hydraulic pipe routing	232
6.3	Topping up hydraulic fluid - bleeding steering system	235
6.4	Checking steering system for leaks	236