



Contents

00 - Technical data	1
1 Identification of gearbox	1
1.1 Identification of gearbox	1
2 Information on "Automatic gearbox 001"	2
2.1 Information on "Automatic gearbox 001"	2
3 Code letters, gearbox allocation, ratios, equipment	3
3.1 Code letters, gearbox allocation, ratios, equipment	3
4 Capacities	4
4.1 Capacities	4
5 Repair instructions	5
5.1 Repair instructions	5
32 - Torque converter	9
1 Torque converter	9
1.1 Torque converter	9
1.2 Identification of torque converter	9
1.3 Draining torque converter	10
1.4 Removing and installing torque converter oil seal	10
1.5 Installing torque convertor	11
37 - Controls, Housing	12
1 Locations of electrical/electronic components	12
1.1 Locations of electrical/electronic components	12
1.2 Components in vehicle	12
1.3 Components on gearbox	20
2 Servicing gear change mechanism	25
2.1 Servicing gear change mechanism	25
2.2 Removing and installing locking cable on vehicles with ignition key removal lock	27
2.3 Checking and adjusting selector lever cable on vehicles up to 06.99	31
2.4 Checking and adjusting selector lever cable on vehicles from 07.99	32
2.5 Dismantling and assembling selector mechanism on vehicles without key withdrawal lock up to 06.99	34
2.6 Dismantling and assembling vehicles without ignition key removal lock up to 06.99	43
2.7 Dismantling and assembling selector mechanism on vehicles with ignition key removal lock from 06.99	49
2.8 Dismantling and assembling selector lever on vehicles with ignition key removal lock up to 06.99	55
2.9 Dismantling and assembling selector mechanism on vehicles from 07.99	62
2.10 Removing and installing selector lever handle on vehicles from 07.99	65
3 Removing and installing gearbox	68
3.1 Removing and installing gearbox	68
4 Checking ATF level and topping up	82
4.1 Checking ATF level and topping up	82
5 Gearbox with selector elements	87
5.1 Gearbox with selector elements	87
5.2 Position of coupling elements	88
6 Dismantling and assembling gearbox	90
6.1 Dismantling and assembling gearbox	90
6.2 Removing and installing ATF cooler and ATF filler tube	90
6.3 Dismantling and assembling planetary gearbox -Overview-	92
6.4 I - Removing and installing ATF pump up to large sun wheel	93
6.5 II - Removing and installing gearbox housing cover up to input gear	97
6.6 Dismantling and assembling planetary gearbox	102



6.7	Overview of all planetary gearbox adjustments	130
6.8	Adjusting reverse gear brake -B1-	131
6.9	Adjusting 2nd and 4th gear brake -B2-	135
6.10	Adjusting clutch play	138
38	- Gears, Hydraulic controls	145
1	Dismantling and assembling ATF pump	145
1.1	Dismantling and assembling ATF pump	145
2	Dismantling and assembling free-wheel	147
2.1	Dismantling and assembling free-wheel	147
3	Dismantling and assembling 1st to 3rd gear clutch -K1-	149
3.1	Dismantling and assembling 1st to 3rd gear clutch -K1-	149
4	Dismantling and assembling reverse gear clutch -K2-	153
4.1	Dismantling and assembling reverse gear clutch -K2-	153
5	Dismantling and assembling 3rd and 4th gear clutch -K3-	157
5.1	Dismantling and assembling 3rd and 4th gear clutch -K3-	157
6	Dismantling and assembling reverse gear brake	162
6.1	Dismantling and assembling reverse gear brake	162
6.2	Dismantling and assembling reverse gear brake -B1-	162
7	Dismantling and assembling piston for 2nd and 4th gear brake -B2-	166
7.1	Dismantling and assembling piston for 2nd and 4th gear brake -B2-	166
8	Removing and installing valve chest	170
8.1	Removing and installing valve chest	170
8.2	Vehicles up to 06.99	171
8.3	Vehicles from 07.99	176
9	Dismantling and assembling parking lock	181
9.1	Dismantling and assembling parking lock	181
39	- Final drive, Differential rear	186
1	Renewing oil seals for flanged shafts	186
1.1	Renewing oil seals for flanged shafts	186
1.2	Removing and installing left-hand flange shaft	187
1.3	Removing and installing right-hand flange shaft	190
2	Dismantling and assembling final drive	193
2.1	Dismantling and assembling final drive	193
2.2	Repair overview of final drive	193
2.3	Removing and installing differential	195
2.4	Removing and installing drive pinion	198
2.5	Dismantling and assembling differential	204
3	Adjusting final drive	210
3.1	Adjusting final drive	210
3.2	Overview of adjustments	210
3.3	Adjustments to be performed after replacing individual components	211
3.4	Adjusting differential	212
3.5	Adjusting drive pinion	215
4	Definitions	218
4.1	Definitions	218