

Contents

00 - Technical data	1
1 Gearbox identification	1
1.1 Location on gearbox	1
2 Code letters, gearbox allocation, ratios, equipment	2
3 Capacities	5
4 General repair instructions	6
32 - Torque converter	9
1 Exploded view - torque converter	9
1.1 Identification of torque converter	10
1.2 Draining torque converter	10
1.3 Renewing oil seal for torque converter	10
1.4 Checking torque converter	12
1.5 Installing torque converter	12
37 - Controls, housing	13
1 Exploded view - dismantling and assembling selector mechanism	13
1.1 Checking selector mechanism	16
1.2 Removing, installing and adjusting selector lever cable	17
1.3 Removing, installing and adjusting locking cable	18
1.4 Checking ignition key removal lock	20
2 Checking gearbox	21
3 Removing and installing gearbox	22
3.1 Securing gearbox to assembly stand	30
3.2 Removing and installing gearbox support	32
4 Checking and topping up ATF level	35
4.1 Checking ATF level	35
4.2 Changing ATF or filling up after performing repairs	37
5 Gearbox with selector elements up to 11.92	39
5.1 Position of selector elements up to 11.92	40
6 Gearbox with selector elements from 11.92 onwards	41
6.1 Position of selector elements from 11.92 onwards	42
7 Dismantling and assembling gearbox	43
7.1 Rules for cleanliness when working on the automatic gearbox	43
8 Removing and installing ATF pipes	44
8.1 Cleaning ATF pipes and ATF cooler	45
9 Dismantling and assembling planetary gearbox - exploded view	47
9.1 Dismantling planetary gearbox	48
9.2 Assembling planetary gearbox - exploded view	52
9.3 I - Installing planet carrier	52
9.4 II - Installing components from reverse gear brake -B1- up to circlip for supporting tube for -B2-	53
9.5 III - Installing small sun gear as far as reverse gear clutch -K2-	55
9.6 IV - Installing supporting tube for -B2- as far as ATF pump	56
9.7 Planetary gearbox adjustments - overview	65
9.8 I - Adjusting planet carrier	67
9.9 II - Adjusting reverse gear brake -B1- - exploded view	70
9.10 III - Adjusting clutch play between -K1- and -K2-	73
9.11 IV - Adjusting 2nd and 4th gear brake -B2-	75
38 - Gears, control	79



1	Dismantling and assembling ATF pump	79
2	Dismantling and assembling free-wheel with piston -B1-	81
3	Dismantling and assembling 1st to 3rd gear clutch -K1- with turbine shaft on gearboxes up to 11.92	83
4	Dismantling and assembling 1st to 3rd gear clutch -K1- with turbine shaft on gearboxes from 11.92 onwards	88
5	Dismantling and assembling reverse gear clutch -K2-	92
6	Dismantling and assembling 3rd and 4th gear clutch -K3- with pump shaft for gearboxes up to 11.92	95
7	Dismantling and assembling 4th gear clutch -K3- with pump shaft for gearboxes from 11.92 onwards	98
8	Removing and installing valve body	101
9	Dismantling and assembling parking lock	105
39	Final drive - differential	110
1	Checking gear oil in final drive	110
2	Renewing oil seals for flange shafts	111
2.1	Renewing oil seal for flange shaft (left-side)	111
2.2	Renewing oil seal for drive flange (right-side)	112
3	Dismantling and assembling final drive	116
3.1	Removing and installing input gear	116
3.2	Removing and installing pinion shaft	121
3.3	Removing and installing differential	129
3.4	Dismantling and assembling differential	132
3.5	Removing and installing bevel gears	138
4	Adjusting final drive	139
4.1	Overview of adjustment work	139
4.2	Table of adjustments	140
4.3	Adjusting input gear	140
5	Adjusting pinion shaft and crown wheel	144
5.1	Adjustment and marking of final drive gear set	144
5.2	Re-adjustment sequence for final drive gear set	145
5.3	Adjusting pinion shaft	146
5.4	Adjusting crown wheel	154
5.5	Adjusting backlash	159