

Contents

00 - Technical data	1
1 Gearbox identification	1
1.1 Gearbox identification	1
2 Code letters, gearbox allocation, ratios, equipment	2
2.1 Code letters, gearbox allocation, ratios, equipment	2
3 Rear final drive identification	2
3.1 Rear final drive identification	2
4 Code letters, gearbox allocation, ratios	3
4.1 Code letters, gearbox allocation, ratios	3
5 Capacities	3
5.1 Capacities	3
6 Repair instructions	4
6.1 Repair instructions	4
6.2 Contact corrosion	4
6.3 General repair instructions	5
32 - Torque converter	7
1 Torque converter	7
1.1 Torque converter	7
1.2 Checking torque converter	7
1.3 Draining torque converter	8
1.4 Fitting a new torque converter oil seal	8
1.5 Installing torque converter	9
37 - Controls, Housing	11
1 Servicing shift mechanism	11
1.1 Servicing shift mechanism	11
1.2 Checking ignition key removal lock	11
1.3 Checking shift mechanism	11
1.4 Dismantling and assembling shift mechanism	12
1.5 Removing and installing selector lever cable	21
1.6 Checking and adjusting selector lever cable	24
1.7 Removing and installing locking cable	26
2 Checking gearbox	31
2.1 Checking gearbox	31
3 Removing and installing gearbox	32
3.1 Removing and installing gearbox	32
3.2 Transporting the automatic gearbox	45
3.3 Securing gearbox to repair stand	45
3.4 Removing and installing left gearbox support	46
4 Checking ATF level; changing ATF	47
4.1 Checking ATF level; changing ATF	47
4.2 Checking ATF level	48
4.3 Changing ATF or filling up after repairs	50
5 Transmission layout	52
5.1 Transmission layout	52
5.2 Actuation of selector elements	53
6 Dismantling and assembling gearbox	53
6.1 Dismantling and assembling gearbox	53
6.2 Rules for cleanliness when working on automatic gearbox	53
6.3 Removing and installing ATF pipes	54
6.4 Cleaning ATF pipes and ATF cooler	55



6.5	Removing and installing multi-function switch -F125	57
6.6	Adjusting multi-function switch -F125	59
6.7	Removing and installing reversing switch -F41	61
38	- Gears, Hydraulic controls	63
1	Removing and installing oil pan, ATF screen and valve body	63
1.1	Removing and installing oil pan, ATF screen and valve body	63
1.2	Removing and installing oil pan	66
1.3	Removing and installing ATF screen	67
1.4	Removing and installing valve body	68
1.5	Removing and installing wiring harness in gearbox	70
1.6	Removing and installing solenoid valves -N88 and -N89	70
1.7	Removing and installing solenoid valve -N90	71
1.8	Removing and installing solenoid valve -N91 (pressure regulator)	72
1.9	Removing and installing solenoid valve -N92	73
39	- Final drive, Differential rear	75
1	Gear oil in front final drive	75
1.1	Gear oil in front final drive	75
1.2	Checking oil level in front final drive	75
1.3	Changing gear oil in front final drive or filling after repairs	75
2	Servicing front final drive	76
2.1	Servicing front final drive	76
2.2	Renewing left-hand flange shaft oil seal	82
2.3	Renewing right-hand flange shaft oil seal	84
2.4	Removing front and rear oil seals for intermediate shaft	86
2.5	Renewing oil seals for torque converter bellhousing	91
3	Removing and installing speedometer sender -G22 and drive wheel for speedometer sender	95
3.1	Removing and installing speedometer sender -G22 and drive wheel for speedometer sender	95
4	Servicing transfer gearing	97
4.1	Servicing transfer gearing	97
4.2	Renewing gasket between front intermediate housing and gearbox housing	100
4.3	Renewing oil seal on drive flange for propshaft	106
5	Servicing propshaft	107
5.1	Servicing propshaft	107
5.2	Removing and installing propshaft	111
5.3	Adjusting propshaft	114
6	Checking oil level in rear final drive	117
6.1	Checking oil level in rear final drive	117
7	Removing and installing rear final drive	118
7.1	Removing and installing rear final drive	118
7.2	Securing rear final drive to repair stand	123
8	Renewing flange shaft oil seals	123
8.1	Renewing flange shaft oil seals	123
9	Renewing oil seal for propshaftdrive flange	125
9.1	Renewing oil seal for propshaftdrive flange	125
9.2	Measuring radial run-out at propshaft flange and marking	131
10	Dismantling and assembling rear final drive	133
10.1	Dismantling and assembling rear final drive	133
10.2	Overview	134
11	Removing and installing differential	135
11.1	Removing and installing differential	135
12	Dismantling and assembling differential	141

12.1	Dismantling and assembling differential	141
13	Removing, installing, dismantling and assembling drive pinion	154
13.1	Removing, installing, dismantling and assembling drive pinion	154
14	Adjusting drive pinion and crown wheel	166
14.1	Adjusting drive pinion and crown wheel	166
14.2	Adjusting and marking of gear sets	167
14.3	Recommended sequence for readjusting final drive set	168
14.4	Adjustment overview	169
14.5	Position of shims	170
14.6	Adjusting drive pinion	173
14.7	Adjusting crown wheel	179