

Contents

00 - Technical data	1
1 Identification	1
1.1 Gearbox identification	1
1.2 Identification of torque converter	2
2 Technical data	3
2.1 Capacities	3
3 Safety precautions	4
3.1 General safety precautions	4
3.2 Safety precautions when working on vehicles with start/stop system	5
3.3 Safety precautions when using testers and measuring instruments during a road test	5
3.4 Safety precautions when tow-starting and towing	5
4 Repair instructions	6
4.1 General notes	6
4.2 Rules for cleanliness	6
4.3 General repair instructions	6
4.4 Contact corrosion	8
4.5 Safety functions of gearbox control unit	8
5 Electrical components	10
5.1 Overview of fitting locations - electrical components	10
32 - Torque converter	14
1 Torque converter	14
1.1 Exploded view - torque converter	14
1.2 Removing and installing torque converter	15
1.3 Draining torque converter	16
1.4 Removing and installing torque converter oil seal	16
37 - Controls, housing	19
1 Selector mechanism	19
1.1 Exploded view - selector lever handle	19
1.2 Exploded view - selector mechanism	20
1.3 Manual release from position P	22
1.4 Removing and installing selector lever handle	23
1.5 Bringing interlock button in handle into installation position	26
1.6 Removing and installing selector mechanism	28
1.7 Checking selector mechanism	31
1.8 Checking and adjusting selector lever cable	32
1.9 Removing and installing multifunction switch	34
1.10 Adjusting multifunction switch	36
1.11 Renewing selector shaft oil seal	37
2 Removing and installing gearbox	39
2.1 Removing gearbox	39
2.2 Installing gearbox	46
2.3 Tightening torques for gearbox	48
3 Transporting gearbox	49
4 Securing to engine and gearbox support	50
5 Assembly mountings	52
5.1 Exploded view - assembly mountings	52
5.2 Removing and installing gearbox mounting	53
5.3 Removing and installing pendulum support	54
6 Bevel box	55



6.1	Removing bevel box	55
6.2	Installing bevel box	58
6.3	Tightening torques for bevel box	59
7	ATF circuit	60
7.1	Exploded view - ATF circuit	60
7.2	Removing and installing ATF cooler	62
7.3	Removing and installing ATF lines	63
7.4	Removing and installing thermostat	67
7.5	Removing and installing adapter for ATF cooler	68
8	ATF	71
8.1	Checking ATF level	71
8.2	Draining and filling ATF	75
8.3	Bleeding ATF circuit	77
38	- Gears, control	78
1	ATF system	78
1.1	Removing and installing oil pan	78
1.2	Removing and installing ATF strainer	80
2	Valve body	82
2.1	Exploded view - valve body	82
2.2	Removing and installing valve body	84
2.3	Removing and installing wiring harness for senders and solenoid valves	88
2.4	Removing and installing gearbox input speed sender G182 and gearbox output speed sender G195	90
39	- Final drive - differential	92
1	Gear oil	92
1.1	Checking gear oil level	92
1.2	Draining and filling gear oil	93
2	Oil seals	96
2.1	Overview of fitting locations - oil seals	96
2.2	Renewing oil seal (left-side)	98
2.3	Renewing oil seal (right-side)	100
3	Components of bevel box	106
3.1	Exploded view - components of bevel box	106
3.2	Renewing oil seals (left-side)	108
3.3	Renewing oil seal (right-side)	112
3.4	Renewing oil seal for output flange	115
3.5	Renewing needle bearings (polygon bearings) for stub shaft (right-side)	121
4	Gearbox control system	125
4.1	Removing and installing gearbox control unit	125