



Contents

00 - Technical data	1
1 Guidelines to automatic transmissions	1
1.1 Diagnostic start suggestions	1
2 General repair instructions	2
2.1 General instructions	2
2.2 Safety measures	2
2.3 Safety measures while towing the vehicle	3
2.4 Cleaning rules	3
2.5 Gearbox	3
2.6 Torque converter	3
2.7 ATF	3
2.8 Guided Fault Finding, vehicle self-diagnosis and measuring techniques	4
2.9 Safety measures for test drives with testing and measuring devices	5
2.10 Automatic gearbox control unit J217	5
2.11 Vehicle control units	5
2.12 Electric components	6
2.13 Sealing rings, gaskets and retainer seals	6
2.14 Nuts and bolts	7
3 Identification	8
3.1 Gearbox identification	8
3.2 Torque converter identification	8
4 Technical data	10
4.1 Assignment gearbox - engine	10
4.2 Filling volumes	10
5 Electric components	11
5.1 Electric components - fitting locations overview	11
32 - Torque converter	16
1 Torque converter	16
1.1 Torque converter - assembly overview	16
1.2 Torque converter - remove and install	17
1.3 Torque converter - empty	18
1.4 Torque converter - check	19
1.5 Torque converter retainer - replace	19
37 - Controls, housing	21
1 ATF circuit	21
1.1 ATF circuit - installation overview	21
1.2 ATF radiator - remove and install	21
2 ATF	24
2.1 ATF - level check	24
2.2 ATF - drain and level check	28
3 Gearbox - remove and install	32
3.1 Gearbox - remove and install	32
3.2 Gearbox - specified torques table	47
4 Gearbox - transport	49
5 Transmission - fasten to support	51
6 Gear selector mechanism	53
6.1 Gear selector mechanism - assembly overview	53
6.2 Gear selector mechanism - check	55
6.3 Emergency unlock from position P	56



6.4	Gear selection mechanism - remove and install	56
6.5	Selector mechanism lever handle - remove and install	59
6.6	Handle lock button - put in assembly position	63
6.7	Selector cable - check and adjust	65
6.8	Multifunction switch F125 - remove and install	68
6.9	Multifunction switch F125 - adjust	71
6.10	Selector lever retainer seal - replace	73
38	- Gears, control	75
1	ATF circuit	75
1.1	Gearbox oil pan - remove and install	75
1.2	Oil filter (ATF strainer) - remove and install	77
2	Valve body	79
2.1	Valve body - assembly overview	79
2.2	Valve body - remove and install	82
2.3	Installation of the wires, connectors, fasteners and supports in the valve body	89
2.4	Solenoid valves and sensor wiring harness - remove and install	90
2.5	Gearbox input speed sensor G182 - remove and install	92
2.6	Gearbox output speed sensor G195 - remove and install	93
39	- Final drive - differential	95
1	Retainer seals	95
1.1	Retainer seals - assembly overview	95
1.2	Left drive flange retainer seal - renew	95
1.3	Right drive flange retainer - replace	98
2	Gearbox control	102
2.1	Gearbox control unit - remove and install	102