



Contents

00 - Technical data	1
1 — Change history —	1
2 Identification	2
2.1 Gearbox identification	2
3 Technical Data	4
3.1 Correspondence (gearbox / engine)	4
3.2 Supply capacity (gearbox oil)	4
3.3 Gear ratio calculation “i”	4
4 Transmission assembly scheme	5
5 Electrical components	7
5.1 Electrical components - assembly overview	7
6 General repair instructions	9
30 - Clutch	14
1 Clutch control	14
1.1 Clutch drive system - assembly locations overview	14
1.2 Clutch drive pedal - assembly overview	15
1.3 Hydraulic clutch system - assembly overview	17
1.4 Clutch release mechanism - assembly overview	19
1.5 Support shell - remove and install	20
1.6 Clutch position sender G476 - remove and install	21
1.7 Pedal return spring - remove and install	23
1.8 Clutch drive pedal - remove and install	25
1.9 Clutch drive pedal support - remove and install	26
1.10 Clutch transmitter cylinder - remove and install	29
1.11 Clutch slave cylinder - remove and install	30
1.12 Clutch drive system line - remove and install	33
1.13 Hydraulic clutch mechanism - bleed	35
1.14 Clutch release mechanism - repair	37
2 Clutch	39
2.1 Clutch - assembly overview	39
2.2 Clutch - remove and install	40
34 - Controls, housing	45
1 Gearshift mechanism	45
1.1 Gearshift mechanism - installation position	45
1.2 Gear lever - assembly overview	46
1.3 Handle and boot on the gear lever - assembly overview	48
1.4 Gear knob - remove and install	49
1.5 Gearshift mechanism - remove and install	51
1.6 Gearshift mechanism - repair	55
1.7 Gearshift mechanism - adjust	59
1.8 Gearshift mechanism - check operation	62
1.9 Gearshift lever and mechanism - remove and install	63
1.10 Selector cables - remove and install	68
1.11 Selector rod - replace seal	70
1.12 Selector rod and the selector mechanism cover - assembly overview	72
1.13 Selector rod and selector mechanism cover - remove and install with the gearbox installed	73
2 Gearbox - remove and install	79
2.1 Gearbox - remove	79
2.2 Gearbox - installation	90



2.3	Gearbox torques	95
3	Auxiliary frame	96
3.1	Assembly mountings - assembly overview	96
4	Gearbox - transport	99
4.1	Gearbox - transport	99
5	Gearbox oil	101
5.1	Gearbox oil - check level	101
6	Transmission - fasten to support	103
6.1	Transmission - fasten to support	103
7	Gearbox - disassemble and assemble	105
7.1	Gearbox - schematic overview	105
7.2	gearbox - assembly overview	105
7.3	Transmission housing cover and 5th gear - assembly overview	106
7.4	Gearbox housing Cover and 5th gear - remove and install (gearbox installed)	108
7.5	Clutch housing - assembly overview	110
7.6	Input shaft, output shaft, differential, selection mechanism and selector forks	110
7.7	Input shaft, output shaft, differential, selection mechanism and selector forks - remove and install	112
8	Gearbox and clutch housings	125
8.1	Transmission housing and transmission housing - assembly overview	125
8.2	Gearbox housing - repair	127
8.3	Clutch housing - repair	128
9	Selector forks	132
9.1	Selector forks - assembly overview	132
9.2	Selector forks - repair	132
35 - Gears, shafts		137
1	Input shaft	137
1.1	Input shaft - general overview of assembly	137
1.2	Input shaft - remove and install	139
1.3	Input shaft - replace seal	152
2	Output shaft	155
2.1	Output shaft - general overview of assembly	155
2.2	Output shaft- remove and install	157
39 - Final drive - differential		165
1	Retainer seals	165
1.1	Seals - assembly overview	165
1.2	Seal (left-hand side) - replace	165
1.3	Seal (right-hand side) - replace	168
2	Differential	171
2.1	Differential - general overview of assembly	171
2.2	Differential - remove and install	173
2.3	Adjust the differential	181