

Contents

00 - Technical data	1
1 Gearbox identification	1
2 Code, allocation, capacities	3
3 Overview - power transmission	4
3.1 Calculating ratio "i"	4
4 General repair instructions	6
4.1 Contact corrosion	10
30 - Clutch	11
1 Overview - clutch mechanism	11
1.1 Notes on removing and installing clutch master cylinder and slave cylinder	11
1.2 Function check for clutch master cylinder and slave cylinder	12
2 Assembly overview - pedal cluster, clutch master cylinder	14
2.1 Removing and installing over-centre spring	16
2.2 Removing and installing clutch pedal	19
2.3 Removing and installing mounting bracket	22
2.4 Removing and installing clutch position sender G476	26
2.5 Removing and installing clutch master cylinder	27
3 Assembly overview - hydraulic system, LHD vehicles	31
3.1 Removing and installing clutch slave cylinder	34
3.2 Removing and installing pipe/hose assembly or plastic pipe	37
3.3 Bleeding clutch system	40
4 Assembly overview - hydraulic system, RHD vehicles	42
5 Assembly overview - clutch release mechanism	45
5.1 Removing and installing clutch release bearing with release lever and guide sleeve	46
6 Assembly overview - clutch	47
6.1 Removing and installing clutch	48
34 - Controls, housing	53
1 Overview - selector mechanism	53
1.1 Assembly overview - gear knob and gear lever boot	53
1.2 Removing and installing gear knob with gear lever boot	54
1.3 Separating gear lever boot from gear knob	56
1.4 Assembly overview - gear lever and selector housing on vehicles up to model year 2007	56
1.5 Assembly overview - selector mechanism, vehicles from model year 2008 onwards	59
1.6 Dismantling and assembling selector mechanism on vehicles from model year 2008 onwards	61
1.7 Removing and installing selector mechanism	66
1.8 Assembly overview - gear selector cable and gate selector cable, vehicles up to model year 2007	73
1.9 Assembly overview - gear selector cable and gate selector cable, vehicles from model year 2008 onwards	77
1.10 Removing and installing gear selector cable and gate selector cable	84
1.11 Adjusting selector mechanism	85
2 Removing gearbox	89
3 Installing gearbox	99
4 Transporting gearbox	102
5 Securing gearbox to assembly stand	104
6 Assembly overview - assembly mountings	106
6.1 Removing and installing gearbox mounting	108
6.2 Removing and installing pendulum support	112



6.3	Removing and installing gearbox support	113
7	Checking oil level in manual gearbox	118
8	Dismantling and assembling gearbox	120
8.1	General layout of gearbox	120
8.2	Assembly overview - dismantling and assembling gearbox	120
8.3	Assembly overview - gearbox housing cover and 5th/6th gear	121
8.4	Assembly overview - clutch housing	123
8.5	Assembly overview - input shaft, output shaft, differential, selector mechanism and selector forks	124
8.6	Assembly sequence - dismantling and assembling gearbox	126
9	Assembly overview - gearbox housing and clutch housing	145
9.1	Servicing gearbox housing and clutch housing	148
10	Assembly overview - gearbox housing cover	153
11	Assembly overview - selector mechanism in gearbox	154
11.1	Removing and installing locking pin	154
11.2	Renewing oil seal for selector mechanism in gearbox	156
12	Assembly overview - selector forks	159
12.1	Dismantling and assembling selector forks	159
35 - Gears, shafts		165
1	Assembly overview - input shaft	165
1.1	Dismantling and assembling input shaft	168
2	Assembly overview - output shaft	180
2.1	Dismantling and assembling output shaft	183
39 - Final drive - differential		191
1	Oil seals	191
1.1	Overview of fitting locations - oil seals	191
1.2	Renewing oil seal for left flange shaft	191
1.3	Renewing oil seal for right flange shaft	195
1.4	Renewing input shaft oil seal	197
2	Assembly overview - differential	200
2.1	Dismantling and assembling differential	202
2.2	Adjusting differential	210