



Contents

00 - Technical data	1
1 Gearbox identification	1
1.1 Gearbox identification	1
1.2 Code letters, gearbox allocation, ratios, capacities	2
2 Transmission layout	14
2.1 Transmission layout	14
3 Calculating overall ratio "i"	16
3.1 Calculating overall ratio "i"	16
4 General repair instructions	16
4.1 General repair instructions	16
30 - Clutch	19
1 Servicing clutch control	19
1.1 Servicing clutch control	19
1.2 Assembly overview - Pedal cluster - Hydraulic clutch control	21
1.3 Removing and installing clutch pedal - Hydraulic clutch control	24
1.4 Assembly overview - Hydraulic system	25
1.5 Removing and installing slave cylinder	29
1.6 Bleeding clutch system	32
1.7 Assembly overview - Pedal cluster - Mechanical clutch control	33
1.8 Removing and installing over-centre spring	36
1.9 Removing and installing clutch pedal - Mechanical clutch control	36
1.10 Assembly overview - Mechanics	37
1.11 Removing and installing clutch cable	40
2 Servicing clutch release mechanism	43
2.1 Servicing clutch release mechanism	43
3 Servicing clutch	46
3.1 Servicing clutch	46
34 - Controls, Housing	52
1 Servicing gear selector mechanism	52
1.1 Servicing gear selector mechanism	52
1.2 Installation position of gear selector mechanism	52
1.3 Removing and installing gear stick housing	54
1.4 Removing and installing gear stick	57
1.5 Removing and installing selector and gate rods	60
1.6 Removing and installing selector mechanism	67
1.7 Adjusting gear selector mechanism	69
2 Removing and installing gearbox	71
2.1 Removing and installing gearbox	71
2.2 Differences between Transporter with long and short front end from January 1996	87
2.3 Removing and installing bearing housing with right-hand output shaft/drive flange	91
2.4 Checking gearbox oil	94
3 Dismantling and assembling gearbox	96
3.1 Dismantling and assembling gearbox	96
3.2 Removing and installing cover for gearbox housing and 5th gear	97
3.3 Removing and installing gearbox housing and selector mechanism	101
3.4 Removing and installing input shaft, output shaft (pinion shaft), differential and selector forks	104
3.5 Dismantling and assembling sequence	107
4 Servicing gearbox housing	125
4.1 Servicing gearbox housing	125



5	Servicing clutch housing	129
5.1	Servicing clutch housing	129
6	Servicing bearing housing	135
6.1	Servicing bearing housing	135
7	Dismantling and assembling selector mechanism, gearbox side	141
7.1	Dismantling and assembling selector mechanism, gearbox side	141
8	Dismantling and assembling selector forks	148
8.1	Dismantling and assembling selector forks	148
35 - Gears, Shafts		156
1	Dismantling and assembling input shaft	156
1.1	Dismantling and assembling input shaft	156
2	Adjusting input shaft	167
2.1	Adjusting input shaft	167
2.2	Table of adjustment shims	169
2.3	Performing measurement check	171
3	Dismantling and assembling output shaft (pinion shaft)	172
3.1	Dismantling and assembling output shaft (pinion shaft)	172
3.2	From gearbox build date 04 09 0 the synchronisation for 1st gear has been modified . . .	196
4	Adjusting output shaft	200
4.1	Adjusting output shaft	200
5	Dismantling and assembling reverse shaft	202
5.1	Dismantling and assembling reverse shaft	202
39 - Final drive, Differential		209
1	Removing and installing oil seal for flange shaft or drive flange	209
1.1	Removing and installing oil seal for flange shaft or drive flange	209
2	Dismantling and assembling differential	213
2.1	Dismantling and assembling differential	213
3	Adjustment overview	224
3.1	Adjustment overview	224
4	Adjusting differential	224
4.1	Adjusting differential	224