

## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Identification</b>	<b>1</b>
1.1 Gearbox identification	1
<b>2 Safety precautions</b>	<b>2</b>
2.1 Safety precautions when working on vehicle	2
2.2 Safety precautions when using testers and measuring instruments during a road test	3
2.3 Notes on tow-starting and towing	3
<b>3 Repair instructions</b>	<b>4</b>
3.1 Rules for cleanliness	4
3.2 General notes	4
3.3 General repair instructions	5
3.4 Contact corrosion	7
<b>4 Technical data</b>	<b>8</b>
4.1 Allocation of gearbox to engine	8
4.2 Capacities	10
<b>5 Transmission layout</b>	<b>11</b>
5.1 Transmission layout - four-wheel drive	11
<b>32 - Torque converter</b>	<b>12</b>
<b>1 Torque converter</b>	<b>12</b>
1.1 Exploded view - torque converter	12
1.2 Identification of torque converter	13
1.3 Removing and installing torque converter	13
1.4 Draining torque converter	15
1.5 Checking torque converter	15
1.6 Removing and installing oil seal for torque converter	15
<b>37 - Controls, housing</b>	<b>17</b>
<b>1 Selector mechanism</b>	<b>17</b>
1.1 Exploded view - selector mechanism	17
1.2 Exploded view - selector lever handle	19
1.3 Exploded view - selector lever cable	20
1.4 Checking selector mechanism	20
1.5 Manual release from position P	22
1.6 Removing and installing selector mechanism	23
1.7 Dismantling and assembling selector mechanism	27
1.8 Removing and installing selector lever handle	30
1.9 Detaching selector lever boot from selector lever handle	33
1.10 Removing and installing selector lever position display Y26	34
1.11 Removing and installing selector lever cable	34
1.12 Checking and adjusting selector lever cable	39
1.13 Adjusting selector lever cable to basic setting	40
1.14 Renewing selector shaft oil seal	44
<b>2 Removing and installing gearbox</b>	<b>47</b>
2.1 Removing gearbox	47
2.2 Installing gearbox	86
2.3 Tightening torques for gearbox	110
<b>3 Assembly mountings</b>	<b>115</b>
3.1 Exploded view - assembly mountings	115
3.2 Removing and installing tunnel cross member	115
3.3 Removing and installing gearbox support with gearbox mounting	117
3.4 Removing and installing gearbox mounting	118



<b>4</b>	<b>Transporting gearbox</b> .....	<b>119</b>
<b>5</b>	<b>Securing to engine and gearbox support</b> .....	<b>121</b>
<b>6</b>	<b>ATF</b> .....	<b>122</b>
6.1	Checking ATF level .....	122
6.2	Draining and filling ATF .....	126
<b>7</b>	<b>ATF circuit</b> .....	<b>131</b>
7.1	Exploded view - ATF circuit .....	131
7.2	Cleaning ATF lines .....	134
<b>38 - Gears, control</b> .....		<b>136</b>
<b>1</b>	<b>ATF system</b> .....	<b>136</b>
1.1	Exploded view - ATF system .....	136
1.2	Removing and installing oil pan .....	138
1.3	Removing and installing ATF strainer .....	140
<b>2</b>	<b>Mechatronic unit</b> .....	<b>142</b>
2.1	Removing and installing mechatronic unit .....	142
2.2	Removing and installing wiring harness in gearbox .....	146
<b>39 - Final drive - front differential</b> .....		<b>148</b>
<b>1</b>	<b>Final drive</b> .....	<b>148</b>
1.1	Exploded view - final drive .....	148
1.2	Renewing O-ring on cover for front final drive .....	149
<b>2</b>	<b>Gear oil</b> .....	<b>151</b>
2.1	Checking gear oil level .....	151
2.2	Draining and filling gear oil .....	153
<b>3</b>	<b>Oil seals</b> .....	<b>157</b>
3.1	Renewing oil seal (left-side) .....	157
3.2	Renewing oil seal (right-side) .....	160
<b>4</b>	<b>Differential</b> .....	<b>162</b>
4.1	Removing and installing flange shaft (left-side) .....	162
4.2	Removing and installing flange shaft (right-side) .....	163
<b>5</b>	<b>Centre differential</b> .....	<b>166</b>
5.1	Exploded view - centre differential .....	166
5.2	Removing and installing centre differential .....	168
5.3	Renewing oil seal for flange shaft (rear) .....	172
5.4	Renewing ball bearing for flange shaft (rear) .....	174
5.5	Renewing ball bearing for centre differential .....	176
<b>6</b>	<b>Gearbox control system</b> .....	<b>179</b>
6.1	Overview of fitting locations - gearbox control system .....	179