



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Safety information</b>	<b>1</b>
1.1 General safety provisions	1
1.2 Safety measures when working on vehicles with a start/stop system	1
1.3 Safety precautions when using testers and measuring instruments during a road test	2
1.4 Safety precautions when tow-starting or towing	2
<b>2 Identification</b>	<b>3</b>
2.1 Gearbox identification	3
2.2 Identification of torque converter	3
<b>3 Repair notes</b>	<b>5</b>
3.1 Rules for cleanliness	5
3.2 General information	5
3.3 General repair instructions	6
3.4 Gaskets and seals	7
3.5 Nuts and bolts	7
<b>4 Technical data</b>	<b>8</b>
4.1 Capacities	8
4.2 Allocation gearbox - engine	8
<b>5 Electrical components</b>	<b>9</b>
5.1 Overview of fitting locations - electrical components	9
<b>32 - Torque converter</b>	<b>10</b>
<b>1 Torque converter</b>	<b>10</b>
1.1 Assembly overview - torque converter	10
1.2 Removing and installing torque converter	10
1.3 Draining torque converter	11
1.4 Checking torque converter	12
1.5 Removing and installing torque converter oil seal	12
<b>37 - Controls, housing</b>	<b>15</b>
<b>1 ATF circuit</b>	<b>15</b>
1.1 Assembly overview - ATF circuit	15
1.2 Removing and installing ATF cooler	15
1.3 Renewing ATF cooler seals	20
<b>2 ATF</b>	<b>25</b>
2.1 Checking ATF level	25
2.2 Draining and filling ATF	27
<b>3 Removing and installing gearbox</b>	<b>30</b>
3.1 Specified torques for gearbox	30
3.2 Removing gearbox	30
3.3 Installing gearbox	41
<b>4 Assembly mountings</b>	<b>45</b>
4.1 Assembly overview - assembly mountings	45
<b>5 Transporting gearbox</b>	<b>48</b>
<b>6 Securing to engine and gearbox support</b>	<b>49</b>
<b>7 Selector mechanism</b>	<b>51</b>
7.1 Assembly overview - selector mechanism	51
7.2 Checking selector mechanism	53
7.3 Manual release from position P	54
7.4 Removing and installing selector mechanism	55
7.5 Removing and installing selector lever handle	61



7.6	Moving push-button in the handle to installation position .....	64
7.7	Removing and installing gear selector cable .....	66
7.8	Checking and adjusting selector lever cable .....	68
7.9	Renewing selector shaft seal .....	70
<b>38</b>	<b>- Gears, control .....</b>	<b>74</b>
<b>1</b>	<b>Dismantling and assembling gearbox .....</b>	<b>74</b>
1.1	Assembly overview - gearbox .....	74
<b>2</b>	<b>ATF system .....</b>	<b>75</b>
2.1	Removing and installing sump .....	75
<b>3</b>	<b>Valve body .....</b>	<b>79</b>
3.1	Assembly overview – valve body .....	79
3.2	Removing and installing wiring harness for senders and solenoid valves .....	81
3.3	Removing and installing valve body .....	84
3.4	Removing and installing gearbox input speed sender G182 and gearbox output speed sender G195 .....	90
<b>39</b>	<b>- Final drive - differential .....</b>	<b>92</b>
<b>1</b>	<b>Seals .....</b>	<b>92</b>
1.1	Overview of fitting locations - oil seals .....	92
1.2	Renewing left seal .....	92
1.3	Renewing right seal .....	95
<b>2</b>	<b>Gearbox control system .....</b>	<b>99</b>
2.1	Removing and installing gearbox control unit .....	99