



Contents

| | |
|---|-----------|
| 00 - Technical data | 1 |
| 1 Safety instructions | 1 |
| 1.1 Safety precautions when working on vehicles with a start/stop system | 1 |
| 1.2 Safety precautions during road tests in which testing and measuring equipment is used | 1 |
| 1.3 Safety precautions when working on cooling system | 1 |
| 1.4 Safety measures during towing/tow-starting | 2 |
| 1.5 General safety instructions | 2 |
| 2 Identification | 3 |
| 2.1 Gearbox identification | 3 |
| 2.2 Torque converter identification | 3 |
| 3 Repair instructions | 5 |
| 3.1 Rules of cleanliness | 5 |
| 3.2 General points | 5 |
| 3.3 General repair instructions | 7 |
| 3.4 Contact corrosion | 10 |
| 3.5 Seals and sealing rings | 10 |
| 3.6 Screws, nuts | 10 |
| 4 Technical data | 12 |
| 4.1 Filling capacity | 12 |
| 4.2 Allocation gearbox - engine | 12 |
| 32 - Torque converter | 13 |
| 1 Torque converter | 13 |
| 1.1 Summary of components - torque converter | 13 |
| 1.2 Removing and installing torque converter | 13 |
| 1.3 Draining the torque converter | 15 |
| 1.4 Checking the torque converter | 15 |
| 1.5 Removing and installing gasket ring for torque converter | 16 |
| 37 - Controls, housing | 18 |
| 1 ATF circuit | 18 |
| 1.1 Summary of components - ATF circuit | 18 |
| 1.2 Removing and installing ATF radiator | 18 |
| 2 ATF | 21 |
| 2.1 Inspecting ATF level | 21 |
| 2.2 Draining and filling ATF | 26 |
| 3 Removing and installing the gearbox | 30 |
| 3.1 Tightening torques for gearbox | 30 |
| 3.2 Removing the gearbox | 31 |
| 3.3 Installing the gearbox | 46 |
| 4 Transporting the gearbox | 51 |
| 5 Attachment at engine and gearbox mount | 52 |
| 6 Shift mechanism | 54 |
| 6.1 Summary of components - Gearshift mechanism | 54 |
| 6.2 Inspecting the gearshift mechanism | 56 |
| 6.3 Emergency release out of P position | 57 |
| 6.4 Removing and installing selector mechanism | 58 |
| 6.5 Removing and installing selector lever handle | 63 |
| 6.6 Installing the lock button at the selector lever handle | 67 |
| 6.7 Inspecting and adjusting the selector lever control cable | 69 |
| 6.8 Removing and installing the multi-function switch | 72 |
| 6.9 Setting the multi-function switch | 76 |



| | | |
|-----------|---|-----------|
| 6.10 | Replacing the sealing ring for the gearshift shaft | 77 |
| 38 | - Gears, control | 79 |
| 1 | Slide valve body | 79 |
| 1.1 | Summary of components - slide valve body | 79 |
| 1.2 | Remove and install wiring harness of encoders and solenoid valves | 82 |
| 1.3 | Removing and installing the slide valve body | 85 |
| 1.4 | Removing and installing oil pan | 88 |
| 1.5 | Removing and installing the oil filter | 90 |
| 1.6 | Removing and installing the gearbox input rpm sender G182 and the transmitter for the Gearbox output speed sender G195 | 91 |
| 39 | - Final drive - differential | 93 |
| 1 | Sealing rings | 93 |
| 1.1 | Replacing left sealing ring | 93 |
| 1.2 | Replacing right sealing ring | 95 |
| 2 | Gearbox control system | 99 |
| 2.1 | Removing and installing gearbox control unit | 99 |