

Contents

| | |
|--|------------|
| 00 - Technical data | 1 |
| 1 Identification | 1 |
| 1.1 Identification of final drive | 1 |
| 1.2 Identification of all-wheel drive coupling 0CJ or 0CX | 5 |
| 2 Technical data | 7 |
| 2.1 Allocation of final drive to engine | 7 |
| 2.2 Capacities | 14 |
| 3 Overview - power transmission | 17 |
| 3.1 Overview - power transmission, vehicles without all-wheel drive coupling | 17 |
| 3.2 Overview - power transmission, vehicles with all-wheel drive coupling »quattro ultra« | 17 |
| 4 Safety information | 19 |
| 4.1 Safety precautions when working on vehicle | 19 |
| 4.2 Safety precautions when working on vehicles with start/stop system | 20 |
| 4.3 Safety precautions when working on the high-voltage system | 20 |
| 4.4 Safety precautions when working in the vicinity of high-voltage components | 21 |
| 5 Repair instructions | 22 |
| 5.1 General repair instructions | 22 |
| 5.2 Repair instructions and testing - rear final drive 0D3 "quattro sport" and 0BX "quattro sport" | 22 |
| 5.3 Repair instructions and testing - all-wheel drive coupling 0CJ or 0CX | 24 |
| 5.4 Special tools | 25 |
| 5.5 Components | 25 |
| 5.6 Contact corrosion | 27 |
| 6 Electrical components | 29 |
| 6.1 Overview of fitting locations - electrical components | 29 |
| 39 - Final drive - rear differential | 31 |
| 1 Safety information | 31 |
| 2 Propshaft | 32 |
| 2.1 Assembly overview - propshaft | 32 |
| 2.2 Removing and installing propshaft | 35 |
| 2.3 Renewing protective boot | 49 |
| 3 Final drive | 52 |
| 3.1 Assembly overview - final drive | 52 |
| 3.2 Removing and installing final drive | 59 |
| 3.3 Dismantling and assembling final drive | 92 |
| 3.4 Hydraulic control unit - "quattro sport" | 109 |
| 3.5 Checking torque distribution | 118 |
| 4 Gear oil | 119 |
| 4.1 Overview of fitting locations - drain and inspection plugs | 119 |
| 4.2 Checking gear oil level | 122 |
| 4.3 Draining and filling gear oil | 124 |
| 5 ATF | 141 |
| 5.1 Checking ATF level | 141 |
| 5.2 Draining and filling ATF | 141 |
| 6 Oil seals | 146 |
| 6.1 Overview of fitting locations - oil seals | 146 |
| 6.2 Renewing left oil seal | 153 |
| 6.3 Renewing right oil seal | 160 |
| 6.4 Renewing input shaft oil seal | 173 |
| 6.5 Renewing protective ring on flange shaft | 197 |



| | | |
|----------|--|------------|
| 6.6 | Renewing protective ring on propshaft flange | 203 |
| 7 | Assembly mountings | 206 |
| 7.1 | Removing and installing bonded rubber bush | 206 |
| 8 | All-wheel drive coupling | 208 |
| 8.1 | Assembly overview - all-wheel drive coupling | 208 |
| 8.2 | Overview of fitting locations - drain and inspection plugs | 210 |
| 8.3 | Removing and installing all-wheel drive coupling | 210 |
| 8.4 | Additional work required if all-wheel drive coupling was renewed | 213 |
| 8.5 | Checking oil level | 214 |
| 8.6 | Draining and filling oil for all-wheel drive coupling | 215 |
| 8.7 | Removing and installing control unit | 217 |
| 8.8 | Additional work for "quattro ultra" vehicles | 220 |
| 8.9 | Checking setting torque of all-wheel drive coupling | 221 |
| 8.10 | Renewing oil seal for all-wheel drive coupling output shaft | 223 |
| 8.11 | Renewing oil seal for all-wheel drive coupling input shaft | 225 |
| 9 | Gearbox control system | 228 |
| 9.1 | Overview of fitting locations - gearbox control system | 228 |
| 9.2 | Removing and installing all-wheel drive control unit J492 - vehicles with "quattro ultra" .. | 231 |
| 9.3 | Removing and installing differential lock control unit J187 - vehicles with "quattro sport" .. | 232 |
| 9.4 | Additional work required after renewing differential lock control unit J187 | 236 |