

Contents

| | |
|---|------------|
| 00 - Technical data | 1 |
| 1 Identification | 1 |
| 1.1 Gearbox identification | 1 |
| 1.2 Identification of all-wheel drive coupling 0CJ or 0CX | 4 |
| 2 Repair instructions | 6 |
| 2.1 Use of impact wrenches | 6 |
| 2.2 General repair instructions | 6 |
| 3 Technical data | 17 |
| 3.1 Allocation of gearbox to engine | 17 |
| 3.2 Capacities | 17 |
| 4 Overview - power transmission | 19 |
| 4.1 Overview - power transmission, front-wheel drive | 19 |
| 4.2 Overview - power transmission, all-wheel drive | 20 |
| 30 - Clutch | 22 |
| 1 Clutch mechanism | 22 |
| 1.1 Assembly overview - clutch release mechanism | 22 |
| 1.2 Removing and installing clutch slave cylinder together with release bearing | 24 |
| 2 Clutch | 27 |
| 2.1 General notes on clutch | 27 |
| 2.2 Assembly overview - clutch | 32 |
| 2.3 Removing and installing clutch module | 41 |
| 2.4 Removing and installing clutch | 47 |
| 2.5 Resetting adjuster ring in SAC pressure plate | 58 |
| 2.6 Renewing needle bearing for dual-mass flywheel | 60 |
| 34 - Controls, housing | 66 |
| 1 Transporting gearbox | 66 |
| 2 Dismantling and assembling gearbox | 67 |
| 2.1 Schematic overview - gearbox | 67 |
| 2.2 Exploded view - gearbox | 68 |
| 2.3 Assembly overview - gear cluster, reverse gear wheel, selector mechanism | 74 |
| 2.4 Assembly overview - selector forks | 76 |
| 2.5 Dismantling and assembling gearbox | 78 |
| 2.6 Removing and installing selector shaft | 118 |
| 3 Gearbox housing, clutch housing | 121 |
| 3.1 Assembly overview - gearbox housing | 121 |
| 3.2 Assembly overview - gearbox housing cover | 124 |
| 3.3 Servicing gearbox housing | 126 |
| 3.4 Servicing gearbox housing cover | 137 |
| 4 Securing to engine and gearbox support | 153 |
| 5 Gear oil circuit | 155 |
| 5.1 Assembly overview - gear oil circuit | 155 |
| 5.2 Assembly overview - gear oil pump | 155 |
| 5.3 Removing and installing gear oil pump | 157 |
| 35 - Gears, shafts | 159 |
| 1 Dismantling and assembling gears and shafts | 159 |
| 1.1 Assembly overview - gear cluster | 159 |
| 1.2 Dismantling and assembling gear cluster | 162 |
| 2 Input shaft | 174 |



| | | |
|-----------|--|------------|
| 2.1 | Assembly overview - input shaft | 174 |
| 2.2 | Dismantling and assembling input shaft | 178 |
| 2.3 | Allocation of 3rd - 6th gear synchro-rings to locking collars | 188 |
| 2.4 | Checking 3rd - 6th gear synchro-rings for wear | 190 |
| 3 | Output shaft | 193 |
| 3.1 | Assembly overview - output shaft | 193 |
| 3.2 | Dismantling and assembling output shaft | 199 |
| 39 | Final drive - differential | 204 |
| 1 | Oil seals | 204 |
| 1.1 | Overview of fitting locations - oil seals | 204 |
| 1.2 | Renewing left oil seal | 208 |
| 1.3 | Renewing right oil seal | 213 |
| 1.4 | Renewing input shaft oil seal | 214 |
| 1.5 | Renewing sealing cap for output shaft in gearbox housing | 217 |
| 1.6 | Renewing output shaft oil seal | 218 |
| 2 | Final drive | 221 |
| 2.1 | Assembly overview - final drive | 221 |
| 2.2 | Assembly overview - pinion shaft | 223 |
| 2.3 | Removing and installing pinion shaft | 223 |
| 2.4 | Dismantling and assembling pinion shaft | 226 |
| 2.5 | Table of adjustments - final drive | 231 |
| 2.6 | Adjusting pinion shaft | 234 |
| 2.7 | Adjusting final drive | 242 |
| 2.8 | Renewing cover for final drive | 260 |
| 3 | Differential | 268 |
| 3.1 | Assembly overview - differential | 268 |
| 3.2 | Removing and installing differential | 269 |
| 3.3 | Dismantling and assembling differential | 273 |
| 3.4 | Removing and installing left flange shaft | 280 |
| 3.5 | Removing and installing right flange shaft | 285 |
| 3.6 | Renewing mounting bracket and ball bearing for left flange shaft | 287 |
| 4 | All-wheel drive coupling | 290 |
| 4.1 | Assembly overview - all-wheel drive coupling | 290 |
| 4.2 | Removing and installing all-wheel drive coupling | 292 |