



Contents

| | |
|---|------------|
| 00 - Technical data | 1 |
| 1 Identification | 1 |
| 1.1 Gearbox identification | 1 |
| 2 Identification codes, assembly allocation, ratios and capacities | 2 |
| 2.1 Identification codes, assembly allocation, ratios and capacities, Golf 2004 ▶ | 2 |
| 2.2 Identification codes, assembly allocation, ratios and capacities, Golf 2009 ▶ | 5 |
| 2.3 Identification codes, assembly allocation, ratios and capacities, Golf Plus 2005 ▶ | 6 |
| 2.4 Identification codes, assembly allocation, ratios and capacities, Golf Plus 2009 ▶ | 8 |
| 2.5 Identification codes, assembly allocation and capacities, Passat 2006 ▶ | 9 |
| 2.6 Identification code, assembly allocation, transmission ratios and capacities, Passat 2011 ▶ | 10 |
| 2.7 Identification codes, assembly allocation, gear ratios and capacities, Passat CC 2009 ▶ | 11 |
| 2.8 Identification codes, assembly allocation, gear ratios and capacities, CC 2010 ▶ | 12 |
| 2.9 Identification codes, assembly allocation and capacities, Eos 2006 ▶ | 13 |
| 2.10 Identification codes, assembly allocation, ratios and capacities, Scirocco 2009 ▶ | 13 |
| 2.11 Calculating overall gear ratio "i" | 14 |
| 3 Overview - power transmission | 15 |
| 4 General repair instructions | 17 |
| 5 Safety precautions | 20 |
| 5.1 Safety precautions for vehicles with a start-stop system | 20 |
| 30 - Clutch | 21 |
| 1 Clutch operation | 21 |
| 1.1 Overview - clutch actuation | 21 |
| 1.2 Assembly overview - pedal cluster | 23 |
| 1.3 Removing and installing over-centre spring | 25 |
| 1.4 Removing and installing clutch pedal | 45 |
| 1.5 Removing and installing mounting bracket | 48 |
| 1.6 Removing and installing master cylinder | 77 |
| 1.7 Removing and installing clutch position sender G476 | 79 |
| 1.8 Assembly overview - hydraulics (LHD) | 82 |
| 1.9 Assembly overview - hydraulics (RHD) | 84 |
| 1.10 Removing and installing slave cylinder | 85 |
| 1.11 Bleeding clutch system | 87 |
| 2 Clutch release mechanism | 89 |
| 2.1 Assembly overview - clutch release mechanism | 89 |
| 2.2 Repairing clutch release mechanism | 90 |
| 3 Clutch | 91 |
| 3.1 Clutch in connection with dual mass flywheel | 91 |
| 3.2 Clutch in connection with simple flywheel | 99 |
| 34 - Controls, housing | 103 |
| 1 Selector mechanism | 103 |
| 1.1 Installation position of selector mechanism | 103 |
| 1.2 Overview - selector mechanism | 104 |
| 1.3 Assembly overview - gear knob and cover | 104 |
| 1.4 Removing and installing gear knob with gaiter and noise insulation | 106 |
| 1.5 Assembly overview - Gear lever and selector housing | 111 |
| 1.6 Dismantling and assembling selector mechanism (from 11.06) | 114 |
| 1.7 Assembly overview - Selector cables | 119 |
| 1.8 Removing and installing selector mechanism | 127 |



| | | |
|---------------------------|--|------------|
| 1.9 | Adjusting selector mechanism | 131 |
| 2 | Removing and installing gearbox | 135 |
| 2.1 | Removing and installing gearbox, Golf 2004 ▶ | 135 |
| 2.2 | Removing and installing gearbox, Golf 2009 ▶ with 1.4 l engine | 149 |
| 2.3 | Removing and installing gearbox, Golf 2009 ▶ with 1.8 l engine | 166 |
| 2.4 | Removing and installing gearbox, Golf Plus 2005 ▶ | 184 |
| 2.5 | Removing and installing gearbox, Golf Plus 2009 ▶ | 199 |
| 2.6 | Removing and installing gearbox, Passat 2006 ▶ | 216 |
| 2.7 | Removing and installing gearbox, Passat 2011 ▶ with turbo diesel engine | 231 |
| 2.8 | Removing and installing gearbox, Passat 2011 ▶ with 1.4 l petrol engine and CC with 1.4 l petrol engine | 246 |
| 2.9 | Removing and installing gearbox, Passat 2011 ▶ with 1.8 l petrol engine, Passat CC and CC with 1.8 l petrol engine | 263 |
| 2.10 | Removing and installing gearbox, Eos | 280 |
| 2.11 | Removing and installing gearbox - Scirocco | 294 |
| 3 | Transporting gearbox | 312 |
| 4 | Assembly overview - assembly mountings | 313 |
| 5 | Gear oil | 315 |
| 5.1 | Checking and topping up gear oil | 315 |
| 6 | Dismantling and assembling gearbox | 318 |
| 6.1 | Overview - gearbox | 318 |
| 6.2 | Overview - dismantling and assembling gearbox | 319 |
| 6.3 | Assembly overview - removing and installing cover for gearbox housing and 5th and 6th gears | 320 |
| 6.4 | Assembly overview - removing and installing gearbox housing and selector mechanism | 323 |
| 6.5 | Assembly overview - removing and installing input shaft, output shaft, differential and selector forks | 324 |
| 6.6 | Assembly sequence - Removing and installing cover for gearbox housing and 5th and 6th gear | 325 |
| 6.7 | Assembly sequence - Dismantling and assembling gearbox completely | 331 |
| 7 | Gearbox housing and clutch housing | 352 |
| 7.1 | Assembly overview - gearbox housing and clutch housing | 352 |
| 7.2 | Repairing gearbox housing and clutch housing | 354 |
| 8 | Gearbox housing cover | 363 |
| 8.1 | Assembly overview - gearbox housing cover | 363 |
| 8.2 | Repairing gearbox housing cover | 364 |
| 9 | Selector unit | 367 |
| 9.1 | Assembly overview - selector unit | 367 |
| 9.2 | Repairing selector unit | 369 |
| 10 | Selector forks | 371 |
| 10.1 | Assembly overview - selector forks in connection with reverse synchromeshed gear arrow | 371 |
| 10.2 | Assembly overview - selector forks in connection with reverse gear locking collar arrow | 372 |
| 10.3 | Repairing selector forks | 374 |
| 35 - Gears, shafts | | 378 |
| 1 | Input shaft | 378 |
| 1.1 | Assembly overview - input shaft | 378 |
| 1.2 | Dismantling and assembling input shaft | 380 |
| 1.3 | Adjusting input shaft | 386 |
| 1.4 | Renewing input shaft seal | 391 |
| 2 | Output shaft | 393 |
| 2.1 | Assembly overview - output shaft | 393 |
| 2.2 | Dismantling and assembling output shaft | 396 |



| | | |
|-----------|--|------------|
| 2.3 | Adjusting output shaft | 406 |
| 3 | Reverse shaft | 411 |
| 3.1 | Assembly overview - reverse shaft with reverse synchromeshed gear arrow | 411 |
| 3.2 | Assembly overview - reverse shaft with reverse gear locking collar arrow | 412 |
| 3.3 | Dismantling and assembling reverse shaft | 414 |
| 39 | Final drive - differential | 417 |
| 1 | Oil seals | 417 |
| 1.1 | Renewing left flange shaft oil seal with gearbox installed | 417 |
| 1.2 | Distinguishing seals for right flange shaft | 419 |
| 1.3 | Renewing right seal with manual gearbox installed (two-part seal for flange shaft and sleeve) | 419 |
| 1.4 | Renewing right seal and sleeve together with manual gearbox installed (one-piece seal and sleeve for flange shaft) | 422 |
| 2 | Adjustment overview | 426 |
| 3 | Differential | 427 |
| 3.1 | Assembly overview - differential | 427 |
| 3.2 | Dismantling and assembling differential | 429 |
| 3.3 | Adjusting differential | 434 |

