



## Contents

<b>00 - Technical data</b> .....	<b>1</b>
<b>1 Identification of gearbox</b> .....	<b>1</b>
1.1 Location on gearbox .....	1
1.2 Code letters, assembly allocation and capacities - Touran 2003 ▶ .....	2
1.3 Identification codes, assembly allocation, capacities, Passat 2006 ▶ .....	3
1.4 Identification codes, assembly allocation, capacities, Golf 2009 ▶ .....	3
1.5 Identification codes, assembly allocation, capacities, Golf Plus 2009 ▶ .....	4
<b>2 Overview - power transmission</b> .....	<b>5</b>
<b>3 Calculating overall gear ratio "i"</b> .....	<b>7</b>
<b>4 General repair instructions</b> .....	<b>8</b>
4.1 Gearbox .....	8
4.2 Gaskets and seals .....	8
4.3 Sealant .....	8
4.4 Locking devices .....	9
4.5 Nuts and bolts .....	9
4.6 Bearings .....	9
4.7 Shims .....	9
4.8 Synchro-rings .....	10
4.9 Gear wheels .....	10
4.10 Synchromeshed gears .....	10
4.11 Clutch .....	10
<b>5 Safety precautions for vehicles with a start-stop system</b> .....	<b>11</b>
<b>30 - Clutch</b> .....	<b>12</b>
<b>1 Repairing clutch mechanism, Touran</b> .....	<b>12</b>
1.1 Overview .....	12
1.2 Assembly overview - pedal cluster with clutch pedal switch F36 to 05.03 .....	13
1.3 Removing and installing clutch pedal switch F36 .....	14
1.4 Removing and installing mounting bracket (all Tourans) .....	15
1.5 Removing and installing master cylinder with mounting bracket removed (through 05.03) .....	23
1.6 Removing and installing over-centre spring with mounting bracket removed .....	25
1.7 Assembly overview - pedal cluster with clutch pedal sender G476 from 06.03 .....	26
1.8 Removing and installing over-centre spring with mounting bracket installed .....	28
1.9 Removing and installing clutch pedal with mounting bracket installed .....	31
1.10 Removing and installing master cylinder with mounting bracket removed (from 06.03) ..	34
1.11 Removing and installing clutch position sender G476 (from 06. 03) .....	36
1.12 Assembly overview - hydraulics (LHD) .....	38
1.13 Assembly overview - hydraulics (RHD) .....	41
1.14 Removing and installing slave cylinder .....	42
<b>2 Repairing clutch mechanism, Passat, Golf and Golf Plus</b> .....	<b>45</b>
2.1 Overview .....	45
2.2 Assembly overview - pedal cluster .....	46
2.3 Removing and installing over-centre spring, Golf 2009 ▶ LHD .....	47
2.4 Removing and installing over-centre spring - Golf 2009 ▶ right-hand drive .....	52
2.5 Removing and installing over-centre spring, Golf Plus .....	57
2.6 Removing and installing over-centre spring, Passat .....	62
2.7 Removing and installing clutch pedal, Golf 2009 ▶ LHD .....	63
2.8 Removing and installing clutch pedal - Golf 2009 ▶ right-hand drive .....	69
2.9 Removing and installing clutch pedal, Golf Plus .....	74
2.10 Removing and installing clutch pedal, Passat .....	80
2.11 Removing and installing mounting bracket, Golf 2009 ▶ LHD .....	82



2.12	Removing and installing mounting bracket, Golf 2009 ▶ RHD and Golf Plus RHD	87
2.13	Removing and installing mounting bracket, Golf Plus left-hand drive	93
2.14	Removing and installing mounting bracket, Passat	98
2.15	Removing and installing master cylinder	102
2.16	Removing and installing clutch position sender G476	103
2.17	Assembly overview - hydraulics (LHD)	106
2.18	Assembly overview - hydraulics (RHD)	108
2.19	Removing and installing slave cylinder	109
<b>3</b>	<b>Bleeding clutch system</b>	<b>112</b>
<b>4</b>	<b>Repairing clutch release mechanism</b>	<b>114</b>
<b>5</b>	<b>Repairing clutch</b>	<b>116</b>
<b>34</b>	<b>Controls, housing</b>	<b>119</b>
<b>1</b>	<b>Repairing selector mechanism, Touran</b>	<b>119</b>
1.1	Installation position of selector mechanism	119
1.2	Removing and installing gear knob and cover	120
1.3	Removing and installing gaiter with gear knob	121
1.4	Repairing gear lever and selector housing (through 10.06)	123
1.5	Repairing gear lever and selector housing (from 11.06)	125
1.6	Assembly overview - removing and installing selector cables	130
1.7	Removing and installing selector mechanism	134
<b>2</b>	<b>Repairing selector mechanism, Passat, Golf and Golf Plus</b>	<b>138</b>
2.1	Installation position of selector mechanism	138
2.2	Removing and installing gear knob and cover	139
2.3	Removing and installing gaiter with gear knob and noise insulation, Golf	140
2.4	Removing and installing gaiter with gear knob and noise insulation, Golf Plus	142
2.5	Removing and installing gaiter with gear knob, Passat	144
2.6	Repairing gear lever and selector housing (through 10.06)	145
2.7	Repairing gear lever and selector housing (from 11.06)	148
2.8	Attaching base plate	153
2.9	Assembly overview - removing and installing selector cables	153
2.10	Removing and installing selector mechanism	156
<b>3</b>	<b>Adjusting selector mechanism</b>	<b>161</b>
3.1	Checking selector mechanism	163
<b>4</b>		<b>164</b>
<b>5</b>		<b>167</b>
5.1	Removing gearbox	169
5.2	Installing gearbox	174
<b>6</b>	<b>Removing and installing gearbox, Passat</b>	<b>182</b>
6.1	Removing gearbox	183
6.2	Installing gearbox	187
<b>7</b>	<b>Removing and installing gearbox, Golf</b>	<b>194</b>
7.1	Removing gearbox	197
7.2	Installing gearbox	202
<b>8</b>	<b>Removing and installing gearbox, Golf Plus</b>	<b>209</b>
8.1	Removing gearbox	211
8.2	Installing gearbox	216
<b>9</b>	<b>Transporting gearbox</b>	<b>223</b>
<b>10</b>	<b>Securing to engine and gearbox support</b>	<b>224</b>
<b>11</b>	<b>Checking gearbox oil</b>	<b>226</b>
<b>12</b>	<b>Dismantling and assembling gearbox</b>	<b>228</b>
12.1	Overview - gearbox	228
12.2	Assembly overview	229



12.3	Removing and installing cover for gearbox housing and 5th gear	230
12.4	Removing and installing clutch housing	231
12.5	Removing and installing input shaft, output shaft, differential, selector mechanism and selector forks	232
12.6	Dismantling and assembling procedure	233
<b>13</b>	<b>Repairing gearbox housing and clutch housing</b>	<b>244</b>
<b>14</b>	<b>Repairing selector unit</b>	<b>247</b>
<b>15</b>	<b>Dismantling and assembling selector forks</b>	<b>250</b>
<b>35</b>	<b>Gears, shafts</b>	<b>255</b>
<b>1</b>	<b>Input shaft</b>	<b>255</b>
1.1	Dismantling and assembling input shaft	255
<b>2</b>	<b>Output shaft</b>	<b>266</b>
2.1	Dismantling and assembling output shaft	266
<b>39</b>	<b>Final drive - differential</b>	<b>274</b>
<b>1</b>	<b>Renewing flange shaft oil seals with gearbox installed, Touran</b>	<b>274</b>
1.1	Renewing oil seal for left flange shaft	274
1.2	Renewing seal for right flange shaft	276
<b>2</b>	<b>Renewing flange shaft oil seals with gearbox installed, Passat, Golf and Golf Plus</b>	<b>279</b>
2.1	Renewing oil seal for left flange shaft	279
2.2	Renewing seal for right flange shaft	280
<b>3</b>	<b>Differential</b>	<b>283</b>
3.1	Dismantling and assembling differential	283
3.2	Adjusting differential	290