



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Identification</b>	<b>1</b>
1.1 Gearbox identification	1
<b>2 General information</b>	<b>4</b>
2.1 Allocation gearbox - engine	4
2.2 Capacities	5
<b>3 Safety information</b>	<b>6</b>
3.1 General safety provisions	6
3.2 Safety measures when working on vehicles with a start/stop system	6
3.3 Notes on tow-starting/towing	7
<b>4 Repair instructions</b>	<b>8</b>
4.1 General repair instructions	8
4.2 Gaskets and seals	10
4.3 Nuts and bolts	10
<b>5 Electrical components</b>	<b>11</b>
5.1 Overview of fitting locations - electrical components	11
<b>30 - Clutch</b>	<b>13</b>
<b>1 Clutch</b>	<b>13</b>
1.1 Assembly overview - dual clutch	13
1.2 Removing and installing clutch end cover	15
1.3 Removing dual clutch	21
1.4 Installing dual clutch	22
<b>34 - Controls, housing</b>	<b>28</b>
<b>1 Mechatronic unit</b>	<b>28</b>
1.1 Removing and installing mechatronic unit for dual clutch gearbox J743	28
1.2 Removing and installing gearbox input speed sender G182 and clutch temperature sender G509	47
<b>2 Selector mechanism</b>	<b>49</b>
2.1 Assembly overview - selector mechanism	49
2.2 Emergency release from position P	50
2.3 Removing and installing selector lever handle	51
2.4 Removing and installing selector mechanism	54
2.5 Checking selector mechanism	58
2.6 Checking and adjusting selector lever cable	59
2.7 Renewing oil seal for selector shaft	61
<b>3 Removing and installing gearbox</b>	<b>64</b>
3.1 Distinguishing between different types of engines, Golf Cabriolet 2012 ►, Tiguan 2008 ►, CC 2012 ►	64
3.2 Removing gearbox	66
3.3 Install gearbox	164
3.4 Specified torques for gearbox	169
<b>4 Transporting gearbox</b>	<b>171</b>
<b>5 Installing to engine and gearbox support</b>	<b>172</b>
<b>6 Bevel box</b>	<b>173</b>
6.1 Removing bevel box	173
6.2 Installing bevel box	186
<b>7 Dismantling and assembling gearbox</b>	<b>191</b>
7.1 Assembly overview - gearbox	191
<b>8 Gear oil circuit</b>	<b>194</b>



8.1	Removing and installing gear oil cooler .....	194
8.2	Removing and installing gear oil pump .....	196
8.3	Removing and installing gear oil filter .....	200
<b>9</b>	<b>Gear oil .....</b>	<b>202</b>
9.1	Checking gear oil level .....	202
9.2	Draining and filling gear oil .....	205
<b>35 - Gears, shafts .....</b>		<b>209</b>
1	Currently, no repairs can be made to gears and shafts .....	209
<b>39 - Final drive - differential .....</b>		<b>210</b>
<b>1</b>	<b>Final drive seals .....</b>	<b>210</b>
1.1	Overview of fitting locations - seals .....	210
1.2	Renewing left oil seal .....	210
1.3	Renewing right oil seal .....	214
<b>2</b>	<b>Bevel box .....</b>	<b>219</b>
2.1	Assembly overview - bevel box .....	219
2.2	Removing and installing right flange shaft .....	220
2.3	Renewing needle bearing (polygon bearing) for right output shaft drive flange .....	222
2.4	Renewing output flange and redetermining thickness of shim, bevel box removed .....	224
2.5	Renewing seal on gearbox between bevel box and gearbox .....	233
2.6	Renewing seal for right flange shaft on outside of bevel box .....	235
2.7	Renewing seal on bevel box between gearbox and bevel box .....	236
2.8	Renewing oil seal for drive flange and bevel box .....	237
<b>3</b>	<b>Gear oil .....</b>	<b>250</b>
3.1	Checking gear oil level .....	250