

Contents

00 -	Tech	nical data	•
	1	Safety information	
	1.1	General safety provisions	
	1.2	Safety measures when working on vehicles with a start/stop system	2
	1.3	Notes on tow-starting/towing	2
	1.4	Safety precautions when using testers and measuring instruments during a road test	2
	2	Identification	4
	2.1	Gearbox identification	4
	3	Repair instructions	Ę
	3.1	General information	Ę
	3.2	Rules for cleanliness	Ę
	3.3	General repair instructions	į
	3.4	Gaskets and seals	6
	3.5	Nuts and bolts	7
	4	Technical data	8
	4.1	Allocation gearbox - engine	8
	4.2	Capacities	Ś
	5	Electrical components	11
	5.1	Overview of fitting locations - electrical components	1
20	Ol. 4-	<u>-</u>	40
30 -	Clutc	h _.	
	1	Clutch	13
	1.1	Assembly overview - dual clutch	13
	1.2	Removing and installing clutch end cover	13
	1.3	Removing dual clutch	17
		T. (1.10) . (1.11) . (1.11)	
	1.4	Installing dual clutch	20
34 -		-	
34 -		Installing dual clutch ols, housing Mechatronic unit	28
34 -	Contr	ols, housing	28 28
34 -	Contr	ols, housing	28 28 28
34 -	Contr 1 1.1	Mechatronic unit Assembly overview - mechatronic unit	28 28 28 29
34 -	Contr 1 1.1 1.2	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump	28 28 28 29 3
34 -	Contr 1 1.1 1.2 1.3	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit	28 28 28 29 3
34 -	Contr 1 1.1 1.2 1.3 2	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box	28 28 28 29 37 34
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box	28 28 28 29 37 34 34 35 35
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes	28 28 28 29 37 34 34 35
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box	28 28 28 29 37 34 34 35 35
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism	28 28 28 29 37 34 34 34
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P	288 28 28 31 34 34 46 46 47
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle	28 28 28 34 34 34 46 47 49
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position	28 28 28 28 36 36 36 36 46 46 47 49 57
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing selector mechanism	28 28 28 29 3.4 34 35 35 4.7 46 47 49 57 58
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing selector mechanism Removing and installing selector mechanism Removing and installing selector mechanism	28 28 28 29 33 34 34 46 46 47 48 55 58 62
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing gear selector cable Checking selector mechanism	28 28 28 29 3 3 3 4 4 4 4 4 4 5 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 8 7 8 7 8
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing gear selector cable Checking selector mechanism Checking and adjusting selector lever cable	28 28 28 29 3 3 3 4 4 4 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing gear selector cable Checking selector mechanism Checking and adjusting selector lever cable Renewing selector shaft seal	28 28 28 28 33 34 34 35 35 62 64 65 66 66
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing gear selector cable Checking selector mechanism Checking and adjusting selector lever cable Renewing and installing gearbox	28 28 28 29 3 3 3 4 4 4 4 4 5 7 5 6 6 6 6 6 6 7
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4 4.1	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing selector mechanism Removing and installing selector cable Checking selector mechanism Checking and adjusting selector lever cable Renewing and installing gearbox Specified torques for gearbox	28 28 28 28 33 34 35 46 46 47 49 57 58 62 64 65 66 70
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4 4.1 4.2	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing selector mechanism Removing and installing selector cable Checking selector mechanism Checking selector mechanism Checking and adjusting selector lever cable Renewing and installing gear selector lever cable Renewing and installing gearbox Specified torques for gearbox Removing gearbox Removing gearbox	28 28 28 28 33 34 35 35 47 49 57 62 65 66 70 70 77
34 -	Contr 1 1.1 1.2 1.3 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4 4.1	Mechatronic unit Assembly overview - mechatronic unit Removing and installing sump Removing and installing mechatronic unit Bevel box Assembly overview - bevel box Distinguishing between different types of bevel boxes Removing bevel box Installing bevel box Selector mechanism Assembly overview - selector mechanism Emergency release from position P Removing and installing selector lever handle Moving push-button in the handle to installation position Removing and installing selector mechanism Removing and installing selector cable Checking selector mechanism Checking and adjusting selector lever cable Renewing and installing gearbox Specified torques for gearbox	28 28 28 28 33 34 34 35 35 62 64 65 66 70 70 71 150



Golf 2017 \succ , Golf Sportsvan 2015 \succ , Golf Sportsvan 2018 \succ , Golf Varia ... 7-speed dual clutch gearbox 0GC - Edition 07.2018

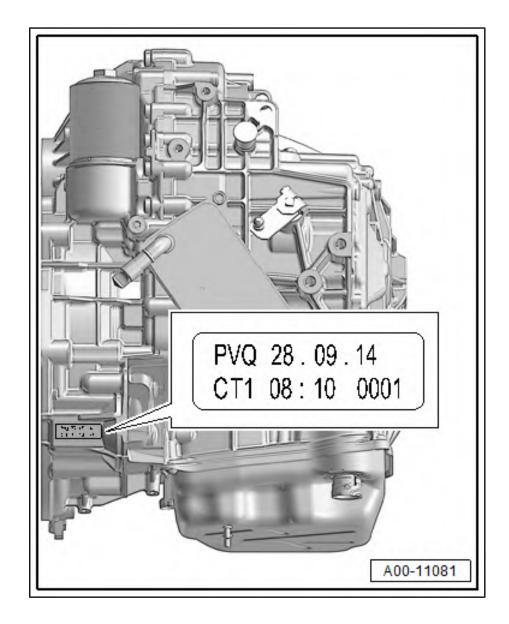
	5.1	Assembly overview - assembly mountings	153
	6	Transporting gearbox	155
	6.1	Transporting gearbox	155
	6.2	Transporting front differential lock	156
	7	Securing to engine and gearbox support	157
	7.1	Installing gearbox to engine and gearbox support	
	7.2	Securing front differential lock to engine and gearbox support	
	8	Gear oil circuit	
	8.1	Assembly overview - gear oil circuit	
	8.2	Removing and installing gear oil cooler	
	8.3	Removing and installing gear oil filter	
	8.4	Removing and installing motor for auxiliary hydraulic pump 1 for gearbox oil V475	
	9	Gear oil	
	9.1	Overview of oil drain and inspection plugs	
	9.2	Tools for gear oil change	
	9.3	Checking gear oil level	
	9.4	Draining and filling gear oil	
	10	Front differential lock	
	10.1	Assembly overview - front differential lock	
	10.2	Removing front differential lock	
	10.3	Installing front differential lock	
	10.4	Removing and installing differential lock control unit J647	
	_		
35 ·	Gear	s, shafts	
	1	Currently, no repairs can be made to gears and shafts	182
39 -	Final	drive - differential	183
39 -	_	drive - differential	
39 -	Final 1 1.1	Gear oil	183
39 -	1	Gear oil	183
39 -	1 1.1 1.2	Gear oil	183 183
39 -	1 1.1 1.2 2	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock	183 183 183
39 -	1 1.1 1.2 2 2.1	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock	183 183 183 188
39 -	1 1.1 1.2 2 2.1 2.2	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock	183 183 183 188 188
39	1 1.1 1.2 2 2.1 2.2 3	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals	183 183 188 188 189 193
39	1 1.1 1.2 2 2.1 2.2 3 3.1	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals	183 183 188 188 189 193
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal	183 183 188 188 189 193 193
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal	183 183 188 188 189 193 193 193
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential	183 183 188 188 189 193 193 196 200
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft	183 183 188 189 193 193 196 200
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock	183 183 188 188 193 193 193 200 200
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5 5.1	Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock	183 183 188 189 193 193 196 200 202
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5 5.1 5.2	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function	183 183 188 189 193 193 196 200 202 202
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5 5.1 5.2 5.3	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181	183 183 188 189 193 193 196 200 202 202 203 203
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5.1 5.2 5.3 5.4	Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock	183 183 188 188 193 193 196 200 202 203 203 205
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5 5.1 5.2 5.3	Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oraining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock Renewing seals for front differential lock	183 183 188 188 193 193 196 200 202 202 203 205 205
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5.1 5.2 5.3 5.4 5.5 5.6	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock Renewing seals for front differential lock Renewing ball bearing for flange shaft	183 183 188 189 193 193 196 200 202 202 203 205 212
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5.1 5.2 5.3 5.4 5.5 5.6 6	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock Renewing seals for front differential lock Renewing ball bearing for flange shaft Components of bevel box	183 183 188 189 193 193 196 200 202 203 203 205 205 212 215
39	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5.1 5.2 5.3 5.4 5.5 6 6.1	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock Renewing seals for front differential lock Renewing ball bearing for flange shaft Components of bevel box Assembly overview - components of bevel box	183 183 188 188 193 193 196 200 202 203 203 205 215 215
39 -	1 1.1 1.2 2 2.1 2.2 3 3.1 3.2 3.3 4 4.1 5.1 5.2 5.3 5.4 5.5 5.6 6	Gear oil Checking gear oil level Draining and filling gear oil Oil for front differential lock Checking oil level for front differential lock Draining and filling oil for front differential lock Oil seals Overview of fitting locations - seals Renewing left seal Renewing right oil seal Differential Removing and installing right flange shaft Components of front differential lock Assembly overview - components of front differential lock Checking function Removing and installing pump for front differential lock V181 Removing and installing coupling for front differential lock Renewing seals for front differential lock Renewing ball bearing for flange shaft Components of bevel box	183 183 188 188 193 193 193 200 200 202 203 205 205 215 215



2 Identification

2.1 Gearbox identification

The gearbox code can be found on top of the gearbox, near the starter.



The gearbox codes can be found on top of the gearbox.

Example

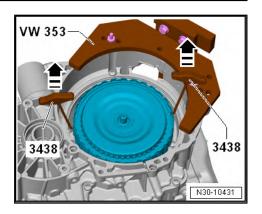
- ♦ PVQ = gearbox code.
- ◆ 28.09.14 = production date 28 September 2014.
- ♦ The remaining data are production-specific.



Note

The gearbox code is also indicated on the vehicle data stickers.

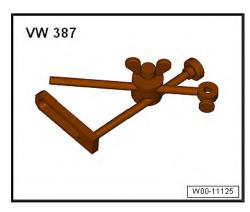
- Remove dual clutch using hooks - 3438- .



1.4 Installing dual clutch

Special tools and workshop equipment required

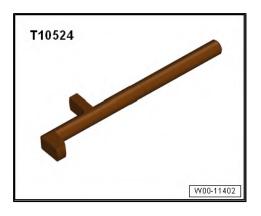
♦ Universal dial gauge holder - VW 387-



♦ Dial gauge - VAS 6079-



♦ Retaining pins - T10524-



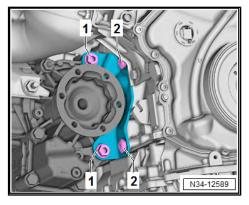


Vehicles with petrol engine

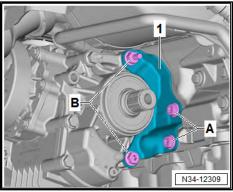


Note

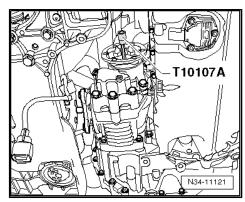
The next figure shows the bevel box with a splined shaft instead of a flange shaft.



Vehicles with diesel engine



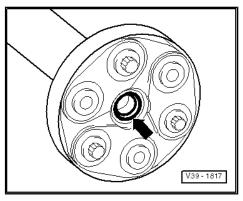
- Secure flange shaft with new countersunk bolt. Specified torque: \Rightarrow Item 1 (page 34)
- Fit propshaft on bevel box.





Note

When removing and installing the bevel box, do not damage the seal in the propshaft flange -arrow-. Renew propshaft if damaged.



- Remove bracket -A- if present.
- Remove nuts -arrows- inside vehicle.
- Remove selector mechanism -B- together with selector housing downwards.

Installing

Install in reverse order of removal. Observe the following when doing this:



Note

- Do not bend or kink gear selector cable.
- Do not grease selector lever cable.
- Following installation of selector mechanism, selector lever cable must be checked for ease of movement and be adjusted.
- Selector lever on selector mechanism must be set to position
- Insert cable into selector mechanism, attach to selector lever and fit new securing clip.
- Install heat shield below selector mechanism ⇒ General body repairs, exterior; Rep. gr. 66; Mouldings/trims/extensions; Removing and installing floor heat shield.
- If featured, install footwell air duct ⇒ Heating, air conditioning; Rep. gr. 87; Air duct; Assembly overview - air routing and air distribution in passenger compartment.
- Install centre console ⇒ General body repairs, interior; Rep. gr. 68; Centre console; Removing and installing centre con-
- Install selector lever handle <u>⇒ page 49</u>.
- Adjust selector lever cable ⇒ page 65.
- Check selector mechanism ⇒ page 64.

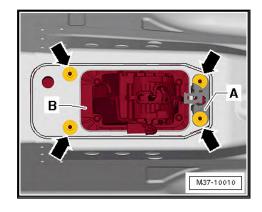
Specified torques

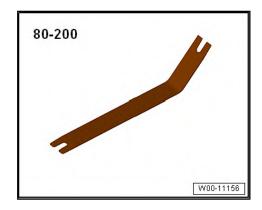
Selector housing to body ⇒ page 46

3.6 Removing and installing gear selector cable

Special tools and workshop equipment required

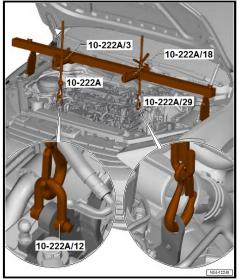
Release lever - 80-200-







- Push adapter 10 222 A /18- and adapter 10 222 A /3onto support bracket - 10-222 A- .
- Secure support bracket 10-222 A- to adapters 10 222 A /



- Secure both adapters 10 222 A /29- with tensioning straps - T10038- .
- The tensioning strap T10038- must be attached in recess -arrow- in bonnet hinge.
- Then, attach spindles in engine lifting eyes.
- Take up weight of engine/gearbox assembly and support bracket on spindles .
- Remove noise insulation ⇒ General body repairs, exterior; Rep. gr. 66; Noise insulation; Removing and installing noise insulation .
- Remove lower part of front left wheel housing liner ⇒ General body repairs, exterior; Rep. gr. 66; Wheel housing liner; Assembly overview - front wheel housing liner .

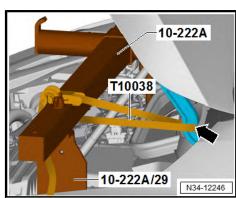


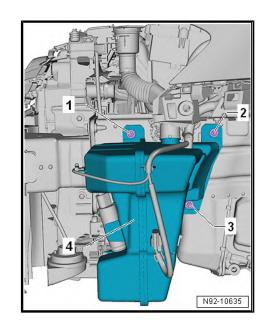
Detach nut -3- from washer fluid reservoir -4- \Rightarrow Electrical system; Rep. gr. 92; Windscreen washer system; Removing and installing washer fluid reservoir.

This will allow for pushing washer fluid reservoir aside slightly at a later stage when removing the gearbox.

1) Disregard bolts -1 and 2-.

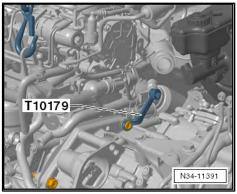
Continuation for all:







Unscrew upper engine/gearbox connecting bolts using insert tool 18 mm - T10179- or insert tool 18 mm - T10509- .



A bolt is located in the starter motor hole -arrow-. This bolt can be removed using socket - T10061-.

- Remove fuel filter and lay to side. Do not open pipe/hose system ⇒ Rep. gr. 20 ; Fuel filter; Assembly overview - fuel filter .
- If there are hoses and cable connections in area of engine support eye for support bracket - 10 - 222 A-, remove these
- Install support bracket 10-222 A- as follows:

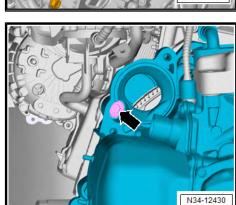
Required material:

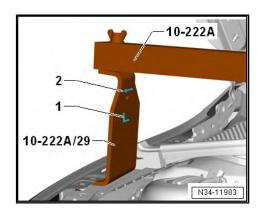
- ♦ Adapter 10 222 A /3-
- Shackle 10 222 A /12- (required when spindle of engine support bracket cannot be hooked into lifting eye of engine).
- Adapter 10 222 A /29- , qty. 2
- Square tube T40091/1-
- Connector T40091/3-
- ♦ Spindle T40093 /3-
- Check adapter T40093/3-6- and modify as necessary
- or adapter T40093/3-6A-
- On both sides of vehicle, insert adapters 10 222 A /29- between wing mounting flange and sheet metal for mounting wing underneath it.
- ♦ Installation position:

"L" = -1- adapter is used on "right-hand" side of vehicle.

"R" (not shown in figure) adapter is to be inserted on "left" side of vehicle.

Arrow -2- always points in direction of travel.

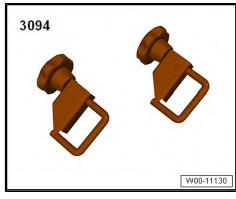




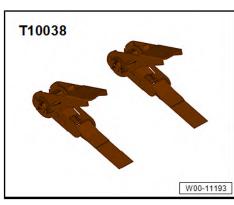
♦ Engine and gearbox jack - VAS 6931-



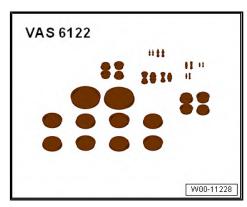
♦ Hose clamps to 25 mm - 3094-



♦ Tensioning strap - T10038-



♦ Engine bung set - VAS 6122-





5 Assembly mountings

⇒ "5.1 Assembly overview - assembly mountings", page 153

5.1 Assembly overview - assembly mountings

1 - Engine support

□ ⇒ Rep. gr. 10; Assembly mountings; Assembly overview - assembly mountings

2 - Engine mounting

□ ⇒ Rep. gr. 10; Assembly mountings; Assembly overview - assembly mountings

3, 4, 5 - Bolt

□ Specified torque ⇒ Rep. gr. 10; Assembly mountings; Assembly overview - assembly mountings

6 - Bracket

Version

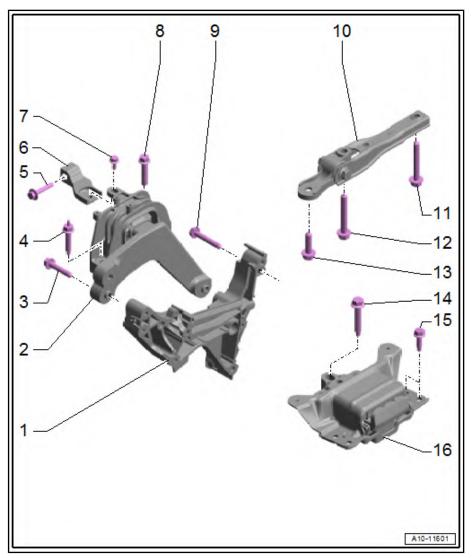
7, 8, 9 - Bolt

□ Specified torque ⇒ Rep. gr. 10; Assembly mountings; Assembly overview - assembly mountings

10 - Pendulum support

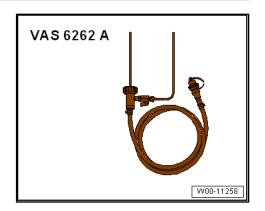
11 - Bolt

- ☐ For pendulum support to subframe
- ☐ Renew after removal
- □ Specified torque ⇒ Rep. gr. 10; Assembly mountings; Assembly overview - assembly

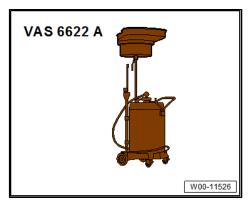




♦ Oil filling adapter - VAS 6262 A- with adapter - VAS 6262/1-



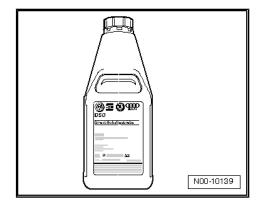
♦ Used oil collector and extractor - VAS 6622A-



♦ If necessary: adapter - VAS 6262/6- or adapter - VAS 6262/7-



Genuine 1 litre oil bottle, dual clutch gearbox oil; part number ⇒ Electronic Parts Catalogue

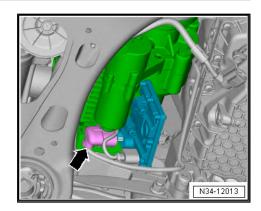


- ♦ Vehicle diagnostic tester
- Safety glasses
- ♦ Acid-resistant protective gloves

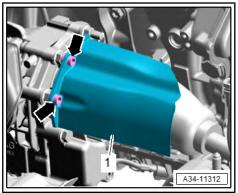


Golf 2017 ➤ , Golf Sportsvan 2015 ➤ , Golf Sportsvan 2018 ➤ , Golf Varia ... 7-speed dual clutch gearbox 0GC - Edition 07.2018

Connect connector -arrow- to transverse lock-up control unit -J647- .



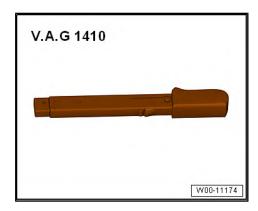
- Install right drive shaft \Rightarrow Running gear, axles, steering; Rep. gr. 40; Drive shaft; Removing and installing drive shaft.
- If present, install heat shield -1- for drive shaft -arrows- ⇒ Running gear, axles, steering; Rep. gr. 40; Drive shaft.
- Top up gear oil in front differential lock ⇒ page 189.
- Assemble exhaust system ⇒ Rep. gr. 26; Exhaust pipes/ silencers; Assembly overview - silencer.
- gr. 66; Noise insulation; Assembly overview noise insulation. Install noise insulation ⇒ General body repairs, exterior; Rep.



10.4 Removing and installing differential lock control unit - J647-

Special tools and workshop equipment required

◆ Torque wrench - V.A.G 1410-



Removing

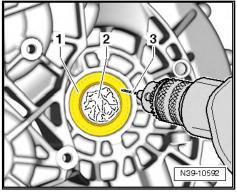
Switch off ignition.

Depending on equipment version, the axle differential lock control unit - J647- is covered by the noise insulation on some vehicles.

In this case, remove noise insulation ⇒ General body repairs, exterior; Rep. gr. 66; Noise insulation; Assembly overview noise insulation.



- Grease drill bit -3- so that metal chips adhere to it.
- Seal drive shaft aperture on transmission with a clean cloth
- Carefully drill a hole with a drill bit -3- (diameter 2 to 4 mm) into outer sheet metal ring -1- of oil seal.



- Screw a self-tapping screw, approx. 4 mm in diameter, into hole drilled in oil seal. Do not screw in sheet metal screw too far to avoid damaging bearing behind it.
- Place drip tray for workshop hoist VAS 6208- below gearbox.
- Pull out oil seal using puller T10055- and adapter -T10055/2- .

Make sure no metal chips get into gearbox and into opening for drive shaft. Vacuum out metal chips first if necessary.

- Carefully remove cloths and make sure that no metal chips get into gearbox.
- Carefully clean gearbox and opening for drive shaft.

If only the sheet metal ring could be pulled out, carefully lever out rest of seal with a screwdriver.

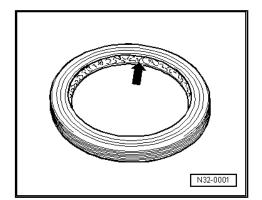


Install in reverse order of removal. Observe the following when doing this:

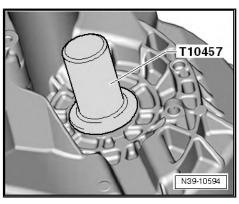
Before installing the seal, apply sealing grease for oil seal - G 052 128 A1- to sealing lips and cavity, and apply oil to outer circumference.

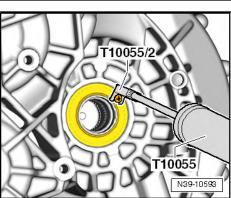
Installation position:

Open side of oil seal faces gearbox.



Drive oil seal in to stop with thrust piece - T10457- . Do not cant oil seal in the process.

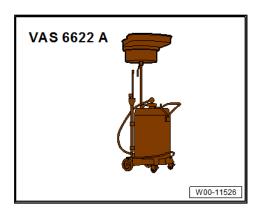




3.3.2 Renewing right oil seal - all-wheel drive vehicles

Special tools and workshop equipment required

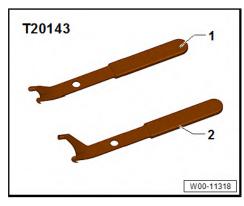
♦ Used oil collector and extractor - VAS 6622A-



Thrust piece - T10049-



Extractor hook - T20143-



♦ Sealing grease - G 052 128 A1-

Sequence of operations

- Remove bevel box \Rightarrow page 35.
- Place used oil collection and extraction unit VAS 6622A- below gearbox.



Golf 2017 \succ , Golf Sportsvan 2015 \succ , Golf Sportsvan 2018 \succ , Golf Varia ... 7-speed dual clutch gearbox 0GC - Edition 07.2018

7 - Ca	ар
	To vent bevel box
8 - Br	reather pipe
	Allocation ⇒ Electronic parts catalogue (ETKA)
10 Nr	n
9 - Bo	olt
	5 Nm
10 - S	Shield
	Not fitted in all bevel boxes
	The outline may differ from that shown in the diagram.
	Allocation ⇒ Electronic parts catalogue (ETKA)
11 - F	Right flange shaft
	Removing and installing ⇒ Rep. gr. 39 ; Oil seals; Renewing right oil seal
12 - S	Seal
	Renew after removal
	To renew, remove needle bearings (polygon bearings) ⇒ Rep. gr. 39; Components of bevel box
	leedle bearing (polygon bearing)
	Needle bearing (polygon bearing) is difficult to turn with flange shaft removed The fact it is difficult to move does not mean that the bearing is defective. An acoustic test can only be performed with the bearings installed.
	Inspect for signs of damage to bearings, such as cracking in outer race, and renew if necessary.
	Renewing ⇒ Rep. gr. 39 ; Components of bevel box
14 - L	ocking ring
	Renew after removal
	For needle roller bearing (polygon bearing)
	Insert in circumferential groove in stub shaft
	Hexagon nut
	Renew after removal
_	Removing ⇒ page 226
	Install using locking fluid - D 000 600-
	Installing ⇒ page 232 480 Nm
16 C	Dutput flange
	Renewing <u>⇒ page 241</u>
– 17 - C	
	Not fitted in all bevel boxes
	Renew if damaged
	Allocation ⇒ Electronic parts catalogue (ETKA)
	Engage with output flange
18 - S	Shim
	Redetermine if output flange is renewed <u>⇒ page 241</u> .
19 - S	Seal
	Renew after removal
	For output flange
	Replace only with bevel box removed <u>⇒ page 220</u>
20 - T	Sapered roller bearing inner race
	No replacement part available for this component