



# 1 Engine list

(VIGG001458; Edition 10.2020)

- Golf CD1 Petrol engines ⇒ [page 1](#)
- Diesel engines ⇒ [page 3](#)
- Golf Estate Petrol engines ⇒ [page 4](#)
- CG5 Diesel engines ⇒ [page 4](#)



## Note

To ease the search for an engine, the engine codes are listed in alphabetical order.

### Golf CD1 petrol engines

Engines ⇒	Petrol engine	Petrol/hybrid engine	Petrol engine	Petrol engine
Displacement l	1.5	1.4	1.5	1.4
<b>Engine code</b>	<b>DFYA</b>	<b>DGEA</b>	<b>DHFA</b>	<b>DJKA</b>
No. of cylinders/valves per cylinder	4/4	4/4	4/4	4/4
Power kW at rpm	110/5000	110/5000-6000	96/5000-6000	110/5000
Torque Nm at rpm	250/1500-3500	250/1600-3500	200/1400-4000	250/1500-4000
Bore Ø mm	74.5	74.5	74.5	74.5
Stroke mm	85.9	80.0	85.9	80.0
Compression ratio	10.5	10.0	12.5	10.5
Injection/ignition	Bosch Motronic MG 1 TSI turbocharger	Magneti Marelli TSI turbocharger	Bosch Motronic MG 1 TGI turbocharger	Bosch Motronic TSI turbocharger
RON unleaded, at least	95	95	Natural gas and 95 (in exceptional circumstances at least 91 RON but with reduced output)	95
Petrol engine particulate filter	Yes	Yes	No	No
Camshaft drive	Toothed belt	Toothed belt	Toothed belt	Toothed belt

Engines ⇒	Petrol engine	Petrol engine	Petrol engine	Petrol engine
Displacement l	1.0	1.0	2.0	2.0
<b>Engine code</b>	<b>DLAA</b>	<b>DLAB</b>	<b>DLBA</b>	<b>DNFC</b>
No. of cylinders/valves per cylinder	3/4	3/4	4/4	4/4
Power kW at rpm	81/5500	66/5500	180/5000-6700	221/5300-6600
Torque Nm at rpm	200/2000-3000	175/1500-4000	370/1600-4300	400/2000-5300
Bore Ø mm	74.5	74.5	82.5	82.5
Stroke mm	76.4	76.4	92.8	92.8
Compression ratio	11.5	11.5	9.6	9.3



**Note**

- ◆ *Deviating scopes of service no longer include extended additional inspections. These must now also be carried out within the scope of every inspection.*
- ◆ *Deviating service intervals: inspection is now always due after the same interval, meaning e.g. for PR-number Q14: after 30,000 km or 2 years, whichever occurs first.*
- ◆ *Individual intervals of the additional work have been adapted to the new inspection interval.*

## 2.2.1 Pre-delivery inspection

Scope of work
- Battery: check battery terminal clamps for secure seating.
- Transportation mode: switch off.
- Service interval display: reset.
- Status of battery: read.
- Event memories of all systems: read.
- Radio/radio navigation system: store local radio stations to station buttons.
- Time and date: set.
- All switches, electrical consumers, sockets, gauges and other controls: check function.
- Front passenger airbag: check key switch and ON/OFF function.
- Window regulators: initialise (activate).
- Vehicle interior: check for cleanliness.
- Protective seat covers and protective carpet film: remove.
- All equipment which has been packed inside vehicle (if part of original equipment): install.
- Two safety hammers: install according to installation instructions.
- Edge protection on doors (plastic film): remove.
- Vehicle exterior: check for cleanliness.
- Tyre pressure: check.
- Wheel bolts: tighten to specified torque.
- Wiper blade protection: remove.
- Tyre Pressure Loss Indicator: calibrate after tyre pressure has been corrected.
- Vehicle: inspect for leaks and damage from above and below.
- Brake system: inspect for leaks and damage.
- Transportation devices: remove (if fitted).
- Vehicle underside (underbody): inspect for damage.
- Windscreen wash/wipe system and headlight washer system: check function and settings.
- Engine oil level: check; observe oil specification when topping up.
- Coolant level: check.
- Brake fluid: renew, if vehicle is older than 6 months.
- Brake fluid level: check that it is at maximum.
- Keys: check number, operation and cleanliness.
- Service Schedule / Digital Service Schedule: enter pre-delivery inspection.
- Owner's literature: check that literature is complete and prepare for delivery to customer.
- Carry out road test.
- Warning stickers: check that they are present.



Part number -5H0 010 000-		Golf				
Part number -5H0 010 000 A-						
Part number -5H0 010 000 L-						
	Half payload kPa/bar/psi		Half load, comfort kPa/bar/psi		Full payload kPa/bar/psi	
<b>Tyre size</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>
205/55 R16 M+S						
205/50 R17 M+S						
225/40 R18 M+S						
T125/70 R16 1)	420/4.2/61					
T125/70 R18 1)						

1) Temporary spare wheel

Part number -5H0 010 000 B-		Golf				
	Half payload kPa/bar/psi		Half load, comfort kPa/bar/psi		Full payload kPa/bar/psi	
<b>Tyre size</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>
205/55 R16	260/2.6/38	260/2.6/38	---	---	280/2.8/41	310/3.1/45
225/45 R17						
225/40 R18						
205/55 R16 M+S						
205/50 R17 M+S						
225/40 R18 M+S						

Part number -5H0 010 000 C-		Golf				
	Half payload kPa/bar/psi		Half load, comfort kPa/bar/psi		Full payload kPa/bar/psi	
<b>Tyre size</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>
225/45 R17	270/2.7/39	270/2.7/39	---	---	290/2.9/42	320/3.2/46
225/40 R18						
205/50 R17 M+S						
225/40 R18 M+S	280/2.8/41	280/2.8/41	---	---	300/3.0/44	330/3.3/48
T125/70 R18 1)	420/4.2/61					

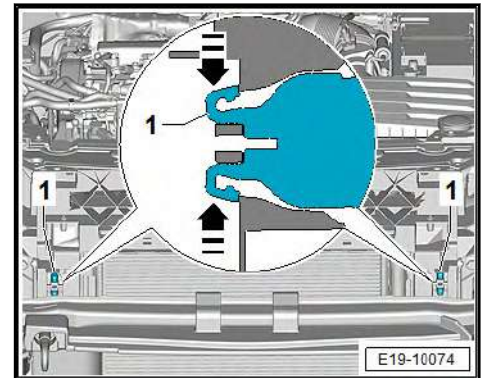
1) Temporary spare wheel



**i** Note

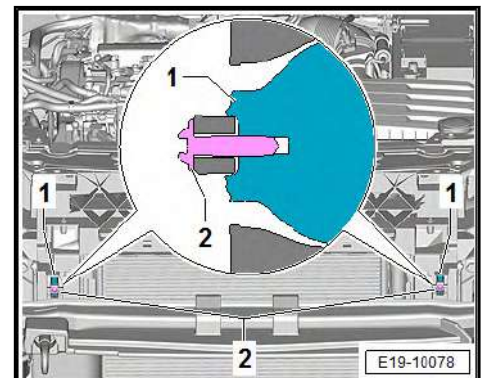
- ◆ *If there are minor dents in the fins, refer to ⇒ [r3.7 radiators and condensers](#), page 9 .*
- ◆ *Renew O-rings after removal.*
- Fit radiator mountings -1- on left and right onto radiator. When doing so, note the installation position -arrows-.

**When radiator mountings are not secured with bolts**



- Ensure proper seating of radiator mountings -1- in lock carrier.

**When radiator mountings are secured with bolts**



- If the locking lugs of radiator mountings -1- have been pinched off, use bolts -2- ⇒ [Electronic parts catalogue \(ETKA\)](#).
- If radiator has been renewed, renew entire coolant.
- Add coolant ⇒ [a1.3.1 nd adding coolant](#), page 240 .

**Specified torques**

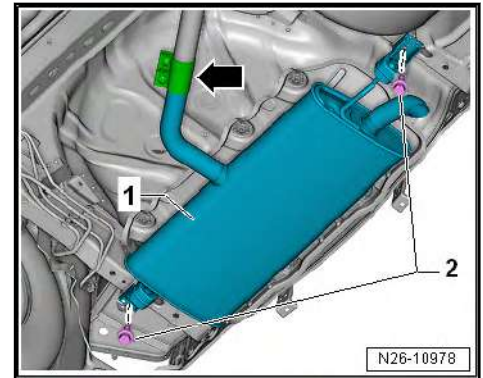
- ◆ ⇒ [o4.1.3 verview - radiator/radiator fan, T-Roc, T-Roc Cabrio](#), page 285

#### 4.4.4 Removing and installing radiator, T-Cross

**Special tools and workshop equipment required**



## Separating point with clamp

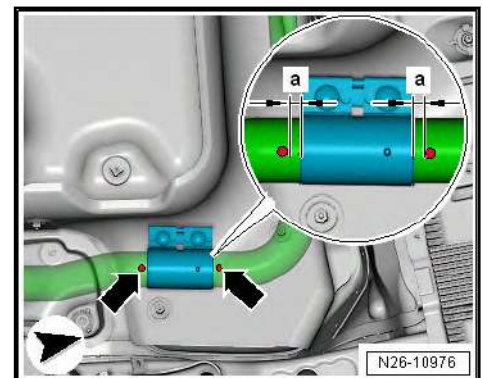


- Loosen clamp -arrow-, and push it forwards.
- Remove bolt -2- on both sides.
- Remove rear silencer -1-.

### Note

- ◆ *The position of the coupling point may vary slightly, depending on the vehicle type.*
- ◆ *Pay attention to the marking of the coupling points ⇒ [page 396](#).*

## Installing



Install in reverse order of removal, observing the following:

### Note

*Make sure to obtain the same distance -dimension a- to the marks -arrows-.*

- Align exhaust system free of stress ⇒ [e1.4 xhaust system free of stress](#), [page 401](#).

## Torque settings

- ⇒ [o1.1 verview – silencers](#), [page 391](#)
- ⇒ [o2.1 verview - emission control](#), [page 404](#)
- ⇒ General body repairs, exterior; Rep. gr. 66; Underbody cladding

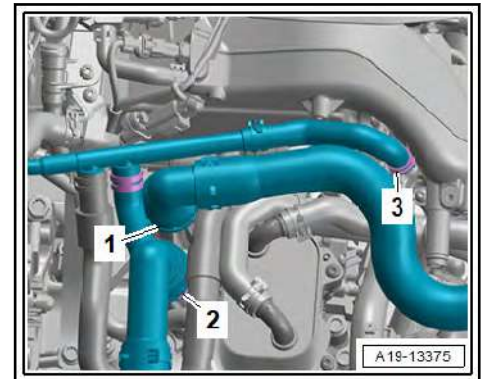


◆ ⇒ [o2.1 verview - toothed belt cover", page 161](#)

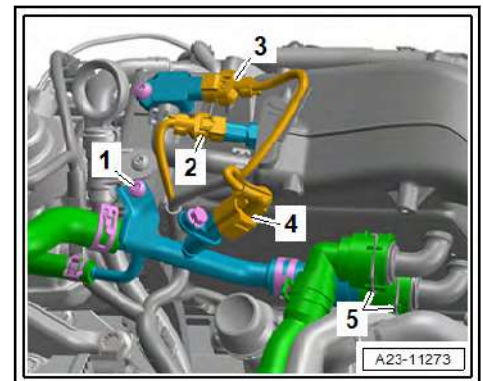
### 3.2.4 Removing and installing front coolant pipe

#### Removing

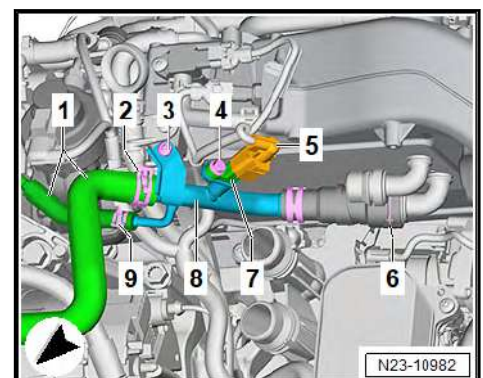
- Remove engine cover panel ⇒ [page 63](#) .
- Drain coolant ⇒ [page 250](#) .
- Remove air duct on lock carrier ⇒ [page 414](#) .
- Open hose clip -3- and pull off coolant hose.

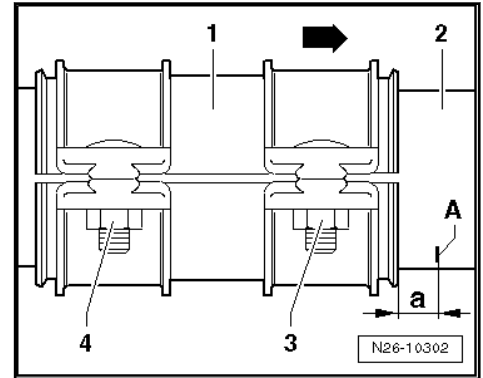


- Unscrew bolt -1-.
- Disconnect electrical connector -4-.
- Lift front retaining clip -5- and pull off coolant connection.



- Lift retaining clip -6- and pull off coolant connection.
- Open hose clip -2- and pull off coolant hose.
- Open hose clip -9- and pull off coolant hose.





1 - Clamping sleeve

2 - Exhaust pipe

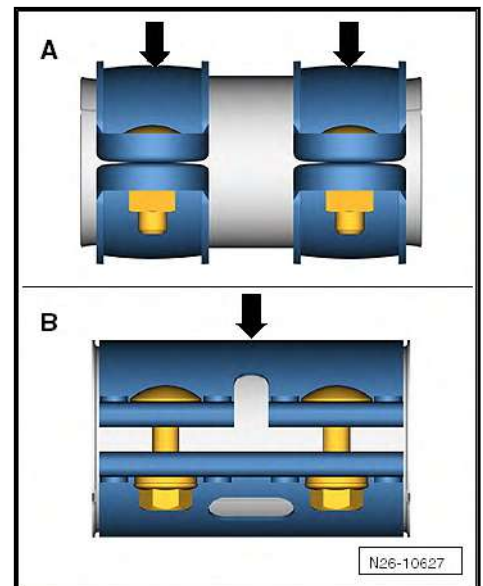
a - Installation dimension

A - Marking on exhaust system

Installation dimension -a- for clamp:

a - 8.5 mm

**Specified torque for clamp**



Variante A - 25 Nm

Variante B - 30 Nm

Tighten threaded connections evenly.



- No. 4 cyl. injector -N33-
- Removing and installing ⇒ [page 427](#)

#### **B - Injectors, intake manifold injection**

- Not installed on all engines.
- Fitting location ⇒ [page 419](#)
- Injector 2 for cylinder 1 -N532-
- Injector 2 for cylinder 2 -N533-
- Injector 2 for cylinder 3 -N534-
- Injector 2 for cylinder 4 -N535-
- Removing and installing ⇒ [page 432](#)

#### **C - Fuel pump control unit -J538-**

- Fitting location ⇒ [page 418](#)
- Removing and installing ⇒ Rep. gr. 20; Fuel pump

#### **D - Clutch position sender -G476-**

- Only fitted to vehicles with a manual gearbox
- Fitting location ⇒ [page 417](#)

#### **E - Gas pedal module -GX2-**

- Consisting of:
  - Acceleration pedal position sender -G79-
  - Accelerator position sender 2 -G185-
- Fitting location ⇒ [page 416](#)
- Removing and installing ⇒ Rep. gr. 20; Accelerator mechanism; Assembly overview - accelerator pedal module

#### **F - Radiator fan control unit -J293-**

- Installed in radiator fan.

#### **G - Stage 3 oil pressure switch -F447-**

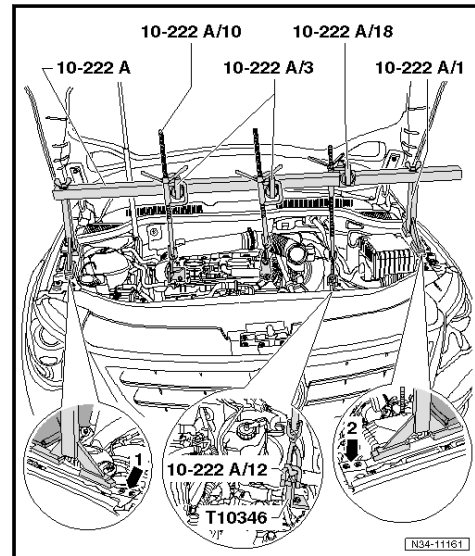
- Fitting location ⇒ [page 256](#)
- Testing, removing and installing ⇒ [page 261](#) .

#### **H - Left electrohydraulic engine mounting solenoid valve -N144- and right electrohydraulic engine mounting solenoid valve -N145-**

- Not installed on all vehicles (depending on gearbox type).

#### **Accelerator pedal module -GX2-**



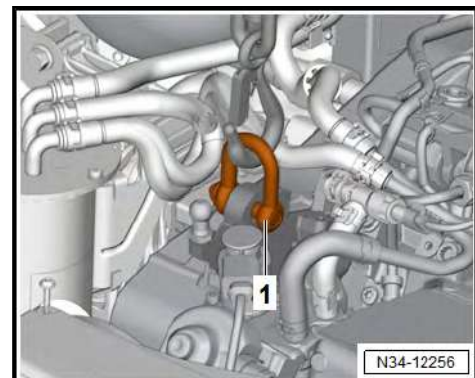


- Position adapter -10 - 222 A /1- as follows.
- On upper longitudinal members
- Directly next to plenum chamber cover
- Behind bolts -arrow 1- and -arrow 2-.
- Do not place the adapters -10-222 A /1- on the bolt-on plates of the wings. These may otherwise be damaged.

The surface of the two upper longitudinal members is different.

Therefore, the adapters -10 - 222 A /1- do not rest against them over the entire contact surface.

- Connect bracket -T10346- or -T10346/1- via shackle -10-222 A /12- to support bracket.
- Attach spindles in engine support eyes.



- If necessary, use shackle (-1-).
- 1- = shackle -10 - 222 A /12-
- Take up weight of engine/gearbox assembly and support bracket on spindles.

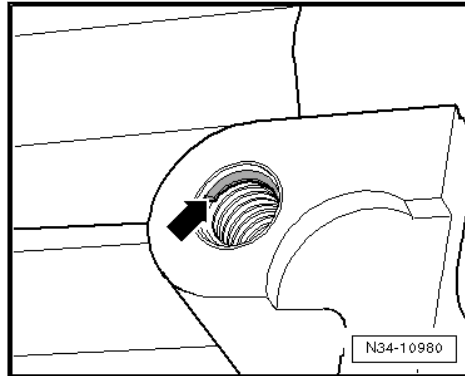


## Installing

Install in reverse order of removal. During this procedure, observe the following:



*There are threaded inserts, e.g. "Heli-Coil" in the bolting holes for the pendulum support.*



*Identification: shoulder along beginning of thread -arrow-.*

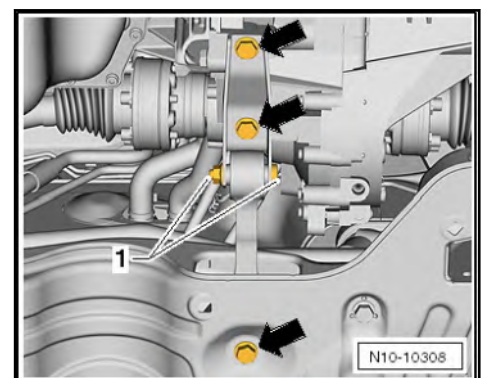
## Specified torques

◆ [⇒ o2.1 verview – assembly mountings”, page 62](#)

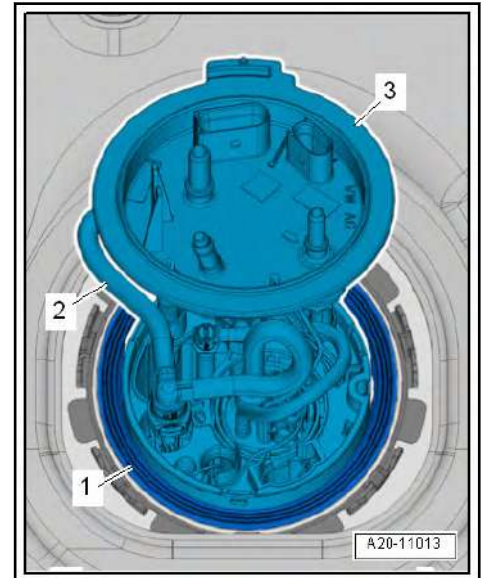
### 2.5.3 Removing and installing pendulum support, automatic gearbox, Polo 2014>, Polo Saloon RUS 2016>

#### Removing

- Heed the safety precautions [⇒ page 1](#) .
- Observe rules for cleanliness [⇒ page 6](#) .
- Note repair instructions [⇒ page 6](#) .
- Remove noise insulation ⇒ General body repairs, exterior; Rep. gr. 50; Noise insulation.
- Unscrew bolts -arrows- for pendulum support.



*Bolt -1- must not be loosened.*



- Pull sealing flange -3- for a short distance out of the opening in the fuel tank.
- Remove seal -1- at the opening in the fuel tank.
- Carefully pull flange with fuel line -2- out of opening in fuel tank.
- Place a cloth underneath to absorb fuel.
- Carefully pull out fuel delivery unit with fuel gauge sender -G- through opening of fuel tank.
- Turn and tilt it as necessary while doing so.
- When removing the fuel delivery unit, ensure that the float arm of the fuel gauge sender is not bent.
- Check fuel tank for foreign bodies and dirt.



#### Note

- ◆ *If delivery unit is to be renewed, old delivery unit must be drained before disposal.*
- ◆ *Observe environmental regulations for disposal.*

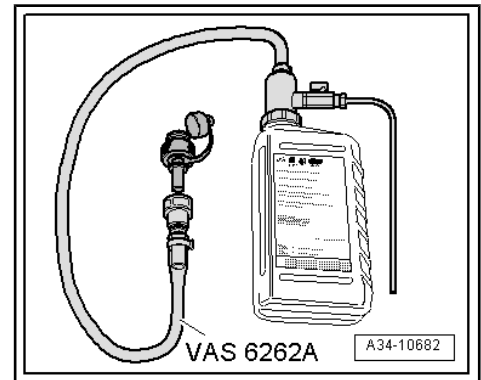
#### Installing

Install in reverse order of removal. Observe the following:

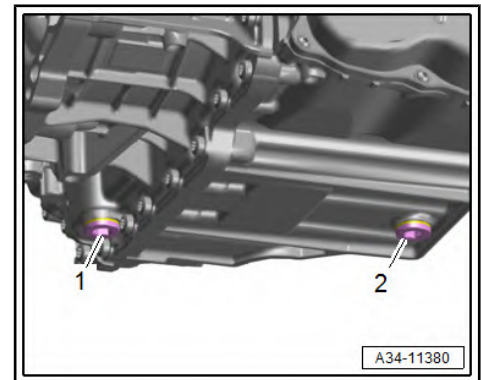
- Renew seal.
- Insert seal for fuel delivery unit dry into opening of fuel tank.
- When inserting fuel delivery unit, ensure that fuel gauge sender is not bent.
- Coat inner side of seal -1- with fuel.



- Shake bottle before opening.
- Screw adapter for oil filling - VAS 6262 A- onto oil bottle.



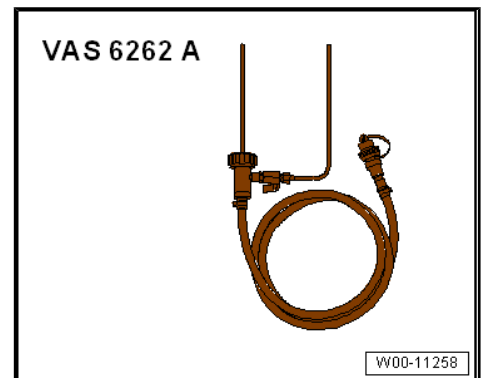
- Unscrew plug -1-.
- Screw adapter - VAS 6262/1- hand-tight into filler and inspection hole -1-.
- Connect adapter for oil filling - VAS 6262 A- to adapter - VAS 6262/1- .
- Hold bottle with adapter for oil filling - VAS 6262 A- as high as possible over the dual clutch gearbox, and allow approx. 5 l of gear oil to flow into the dual clutch gearbox.
- Then, check oil level and top up as necessary => [page 61](#) .



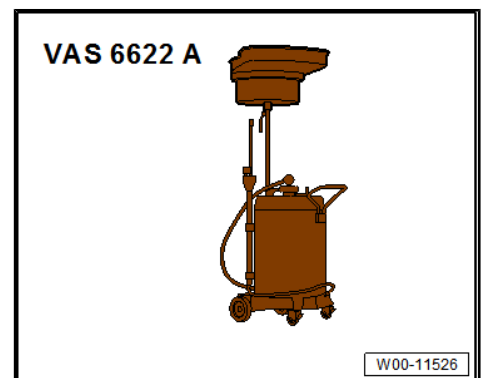
## 7.4 Filling with gear oil after mechatronic unit has been renewed

### Special tools and workshop equipment required

- ◆ Adapter for oil filling - VAS 6262 A- with flexible hose adapter - VAS 6262/5-



- ◆ Used oil collector and extractor - VAS 6622A-



- ◆ Safety glasses
- ◆ Acid-resistant protective gloves



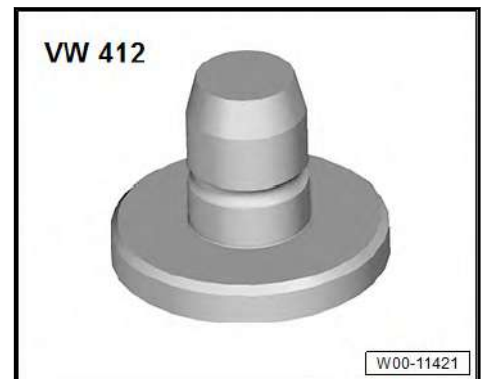
- ◆ Thrust plate -VW 402-



- ◆ Press tool -VW 407-



- ◆ Press tool -VW 412-



- ◆ Tube -VW 415 A-





#### 1 - Nut

- Renew after removal

#### 2 - Subframe

- Assembly overview ⇒ [o3.1.1 overview – subframe, multi-link suspension, front-wheel drive”, page 208](#)
- Removing and installing ⇒ [a1.3.2 nd installing rear axle, multi-link suspension, front-wheel drive”, page 186](#)

#### 3 - Bolt

- Renew after removal
- 70 Nm +180°

#### 4 - Wheel bearing housing

- Assembly overview ⇒ [o7.1.2 overview - suspension, multi-link suspension, front-wheel drive”, page 279](#)
- Removing and installing ⇒ [a7.3.1 nd installing wheel bearing housing, multi-link suspension, front-wheel drive”, page 284](#)

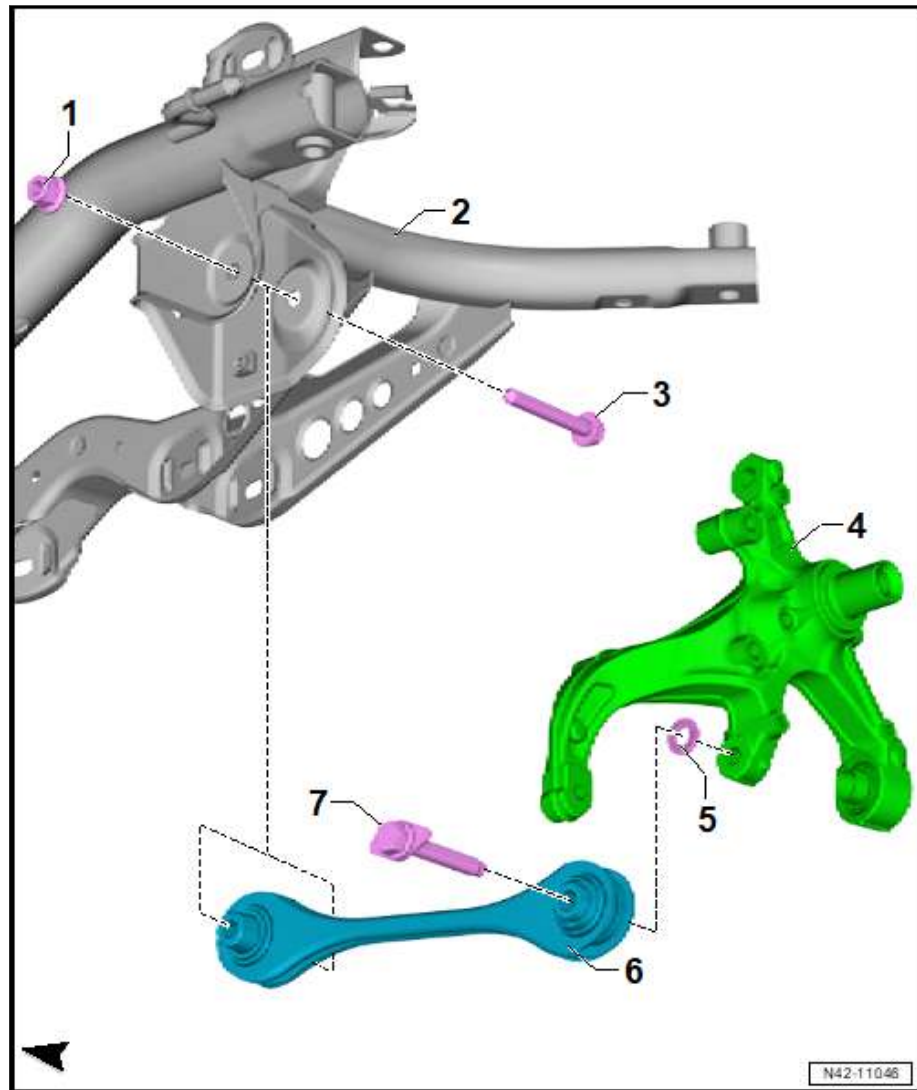
#### 5 - Washer

#### 6 - Track rod

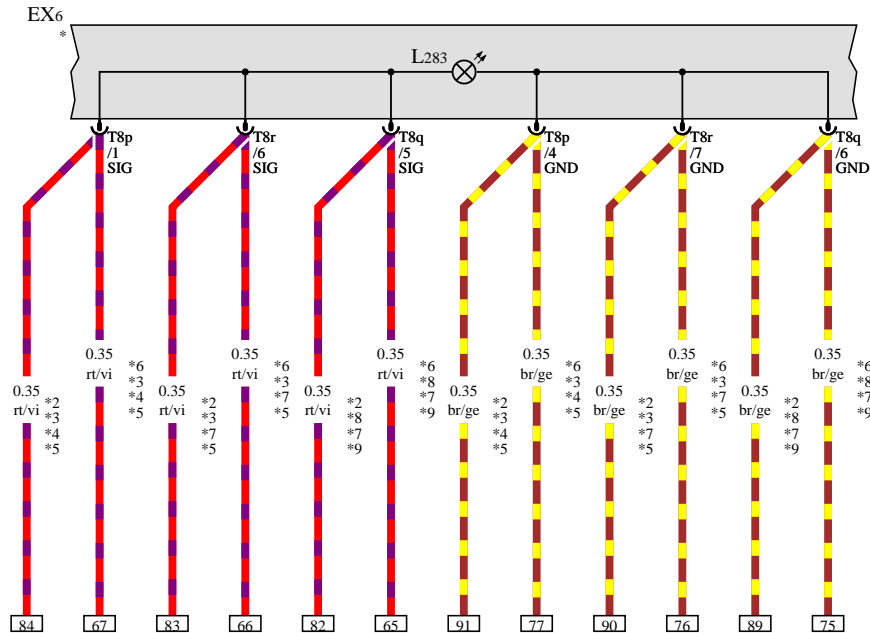
- Removing and installing ⇒ [a5.5 nd installing track rod”, page 255](#)

#### 7 - Bolt

- M14 x 1.5 x 85 mm
- Renew after removal
- Always tighten threaded connections in unladen position ⇒ [s2.8 uspension to unladen position \(vehicles with coil springs\)”, page 5](#)
- 130 Nm +180°



### 5.2.2 Assembly overview - track rod, multi-link suspension, four-wheel drive



Driver exterior door handle

- EX6 Driver exterior door handle
- L283 Light for exterior door handle illumination, driver side
- T8p 8-pin connector, grey
- T8q 8-pin connector, blue
- T8r 8-pin connector, black
- \* see applicable current flow diagram for entry and start authorisation
- \*2 For right-hand drive models
- \*3 For models with entry and start authorisation
- \*4 For models without near field communication
- \*5 For models with keyless entry system
- \*6 For left-hand drive models
- \*7 For models with near field communication
- \*8 For models with no entry and start authorisation
- \*9 For models without keyless entry system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink