

**1 - Subframe**

**2 - Bolt**

- ☐ Renew after removing
- ☐ 90 Nm +90°

**3 - Power unit mounting senders**

- ☐ Depending on version
- ◆ Power unit mounting sender 1 -G748- (right-side)
- ◆ Power unit mounting sender 2 -G749- (left-side)
- ☐ Removing and installing ⇒ [a2.4 nd installing power unit mounting senders](#), page 51

**4 - Bolt**

- ☐ 10 Nm

**5 - Bolt**

- ☐ 55 Nm

**6 - Engine support**

- ☐ Removing and installing ⇒ [a1.7 nd installing engine support](#), page 67

**7 - Bolt**

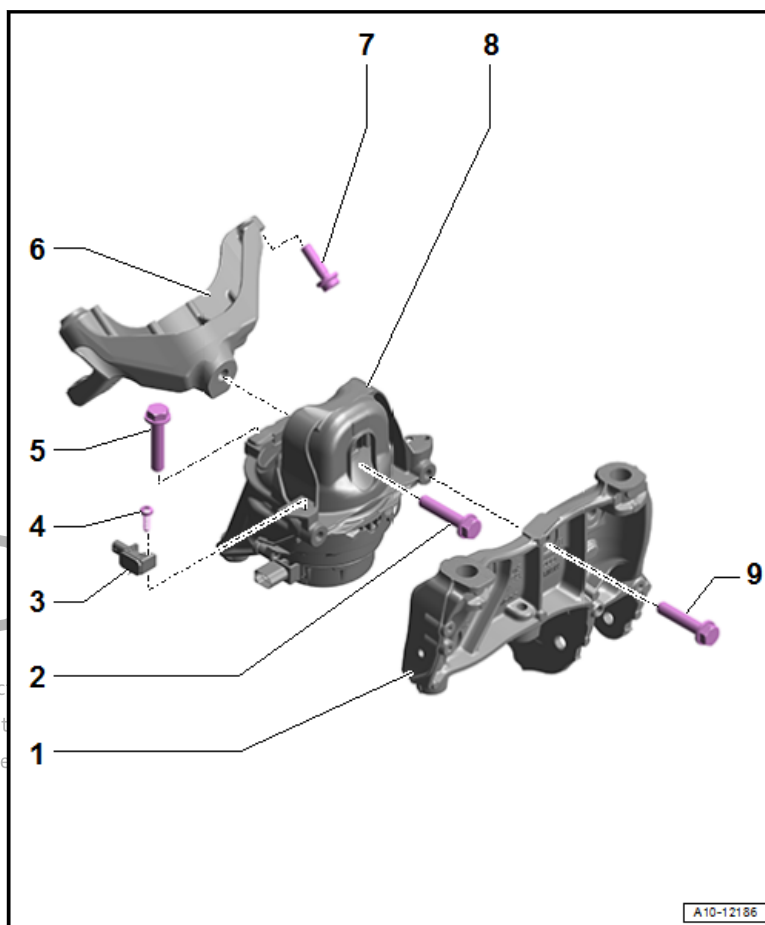
- ☐ Renew after removing
- ☐ 50 Nm +90°

**8 - Engine mounting**

- ☐ with
- ◆ Left electrohydraulic engine mounting solenoid valve -N144-/power unit mounting actuator 2 -N514- (left-side)
- ◆ Right electrohydraulic engine mounting solenoid valve -N145-/power unit mounting actuator 1 -N513- (right-side)
- ☐ Removing and installing ⇒ [a2.3 nd installing engine mountings](#), page 47

**9 - Bolt**

- ☐ 30 Nm



## 2.1.2 Assembly overview - gearbox mounting

### 1 - Mounting bracket

- ☐ For gearbox mounting (side)

### 2 - Gearbox mounting (side)

- ◆ Gearbox mounting valve 1 -N262- (right-side)
- ◆ Gearbox mounting valve 2 -N263- (left-side)
- ☐ Removing and installing ⇒ [a2.5 nd installing gearbox mountings", page 53](#)

### 3 - Bolt

- ☐ 20 Nm

### 4 - Gearbox support (side)

- ☐ Removing and installing ⇒ [a2.5 nd installing gearbox mountings", page 53](#)

### 5 - Bolt

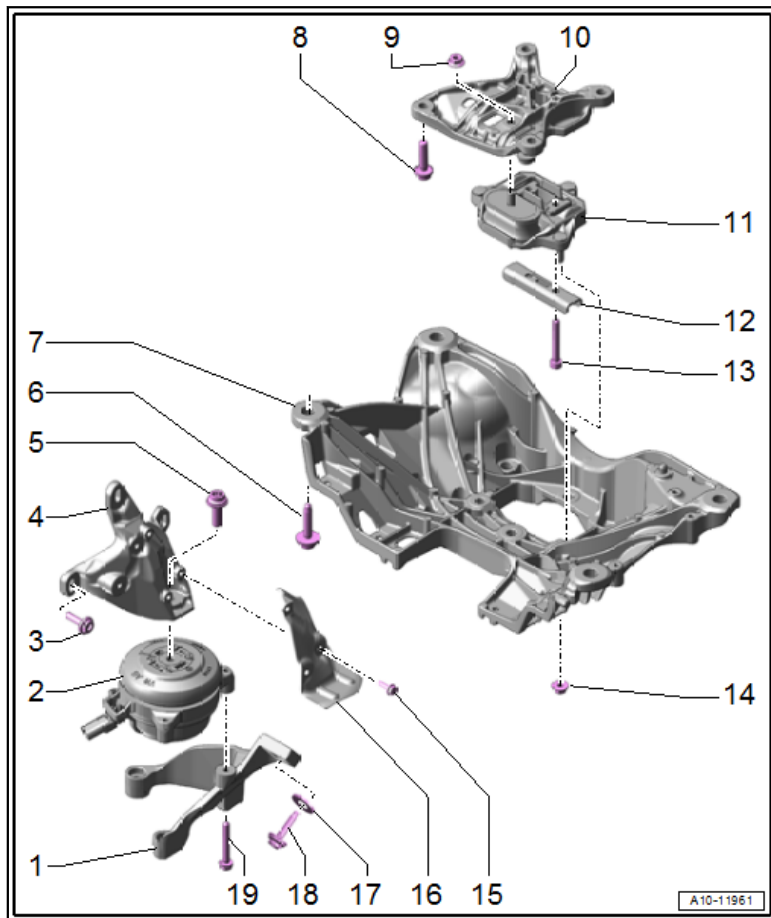
- ☐ 55 Nm

### 6 - Bolt

- ☐ Tightening torques ⇒ 8-speed automatic gearbox 0DY; Rep. gr. 37; Assembly mountings; Assembly overview - assembly mountings

### 7 - Tunnel cross member

- ☐ Removing and installing ⇒ 8-speed automatic gearbox 0DY; Rep. gr. 37; Assembly mountings; Assembly overview - assembly mountings



### 8 - Bolt

- ☐ 40 Nm

### 9 - Nut

- ☐ Only remove if detaching gearbox mounting from gearbox support
- ☐ 20 Nm

### 10 - Gearbox support (rear)

- ☐ Removing and installing ⇒ [a2.5.3 nd installing gearbox mounting \(rear\)", page 56](#)

### 11 - Gearbox mounting (rear)

- ☐ Removing and installing ⇒ [a2.5.3 nd installing gearbox mounting \(rear\)", page 56](#)

### 12 - Stop plate

- ☐ For gearbox mounting (rear)

### 13 - Bolt

- ☐ Only remove if detaching gearbox mounting from gearbox support
- ☐ Renew after removing
- ☐ 20 Nm +90°

### 14 - Nut

- ☐ 20 Nm



**15 - Bolt**

- ☐ 10 Nm

**16 - Heat shield**

**17 - Washer**

**18 - Bolt**

- ☐ 55 Nm

**19 - Bolt**

- ☐ 20 Nm

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## 2.1.3 Assembly overview - vehicle dynamics support

**1 - Bolt**

- ☐ 55 Nm

**2 - Vehicle dynamics support**

- ☐ Removing and installing ➔ [a2.7.1 nd installing vehicle dynamics support", page 58](#)

**3 - Bolt**

- ☐ 20 Nm

**4 - Bolt**

- ☐ 55 Nm

**5 - Washer**

- ☐ Depending on version

**6 - Mounting bracket**

- ☐ For vehicle dynamics support
- ☐ Removing and installing ➔ [a2.7.2 nd installing mounting bracket for vehicle dynamics support", page 59](#)

**7 - Bolt**

- ☐ 20 Nm

**8 - Bolt**

- ☐ 20 Nm

**9 - Nut**

**10 - Bolt**

- ☐ Tightening torques and sequence ➔ [Fig. "Engine mounting bracket for vehicle dynamics support - tightening torque and sequence", page 43](#)

**11 - Engine mounting bracket (top part)**

- ☐ For vehicle dynamics support
- ☐ Removing and installing ➔ [a2.7.3 nd installing engine mounting bracket for vehicle dynamics support", page 60](#)

**12 - Engine mounting bracket (bottom part)**

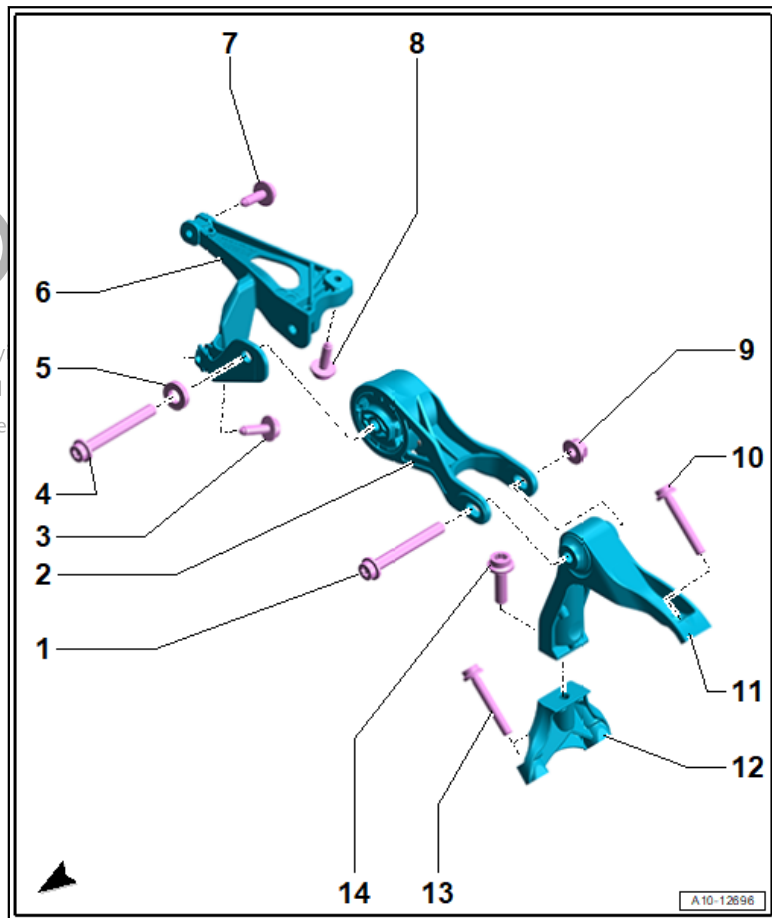
- ☐ For vehicle dynamics support
- ☐ Removing and installing ➔ [a2.7.3 nd installing engine mounting bracket for vehicle dynamics support", page 60](#)

**13 - Bolt**

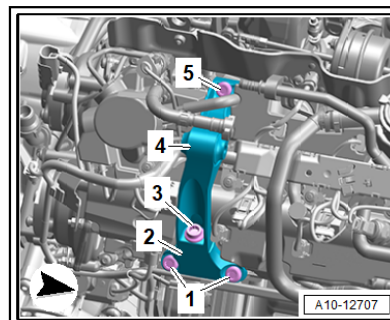
- ☐ Tightening torques and sequence ➔ [Fig. "Engine mounting bracket for vehicle dynamics support - tightening torque and sequence", page 43](#)

**14 - Bolt**

- ☐ Tightening torques and sequence ➔ [Fig. "Engine mounting bracket for vehicle dynamics support - tightening torque and sequence", page 43](#)



**Engine mounting bracket for vehicle dynamics support - tightening torque and sequence**



– Tighten bolts in stages in the sequence shown:

Stage	Bolts	Tightening torques
1.	-1, 5, 3-	Screw in by hand until contact is made
2.	-1, 5-	20 Nm
3.	-3-	55 Nm

## 2.2 Supporting engine in installation position

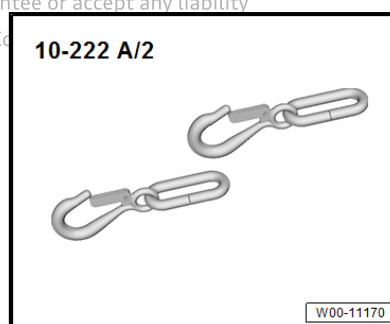
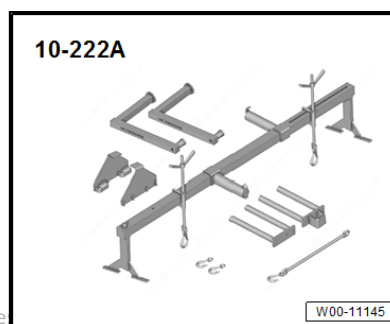
Special tools and workshop equipment required

- ◆ Support bracket -10-222A-

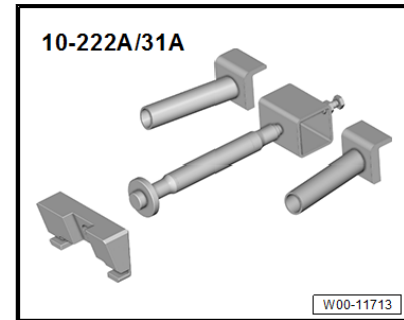


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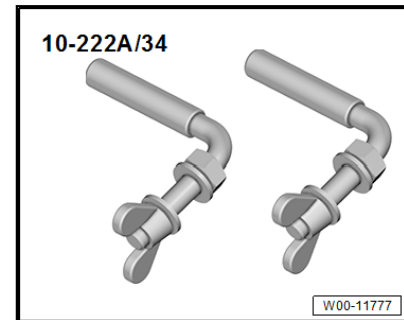
- ◆ Hook -10-222A/2-



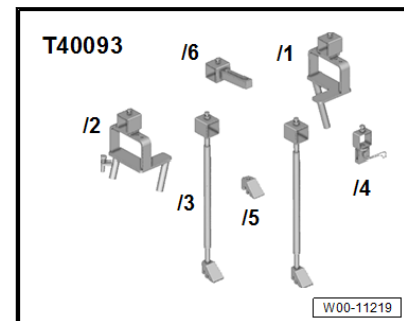
◆ Adapters -10-222A/31-3-



◆ Adapters -10-222A/34-



◆ Engine support bracket -T40093B-



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- Gearbox and tunnel cross member installed.

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- Remove air filter housing ⇒ [a3.2 nd installing air filter housing", page 237](#) .
- Remove wing panel cover (front) on both sides ⇒ General body repairs, exterior; Rep. gr. 50; Wing; Assembly overview - wing.
- Remove reinforcement strut ⇒ General body repairs, exterior; Rep. gr. 50; Lock carrier; Assembly overview - lock carrier.

**⚠ CAUTION**

**Risk of injury when weight of engine is shifted.**

**Danger of trapping or crushing parts of the body**

- Only support engine with gearbox and tunnel cross member installed.

- Set up engine support bracket on left and right of longitudinal member as follows:

1 - Support -10-222A/1A-

2 - Adapter -10-222A/4-

3 - Support -T40091/3-

4 - Spindle -10-222A/11-

5 - Adapter -T40093/6A-

6 - Tube -T40091/1-

7 - Spindle -10-222A/11-

8 - Adapter -10-222A/31-3-

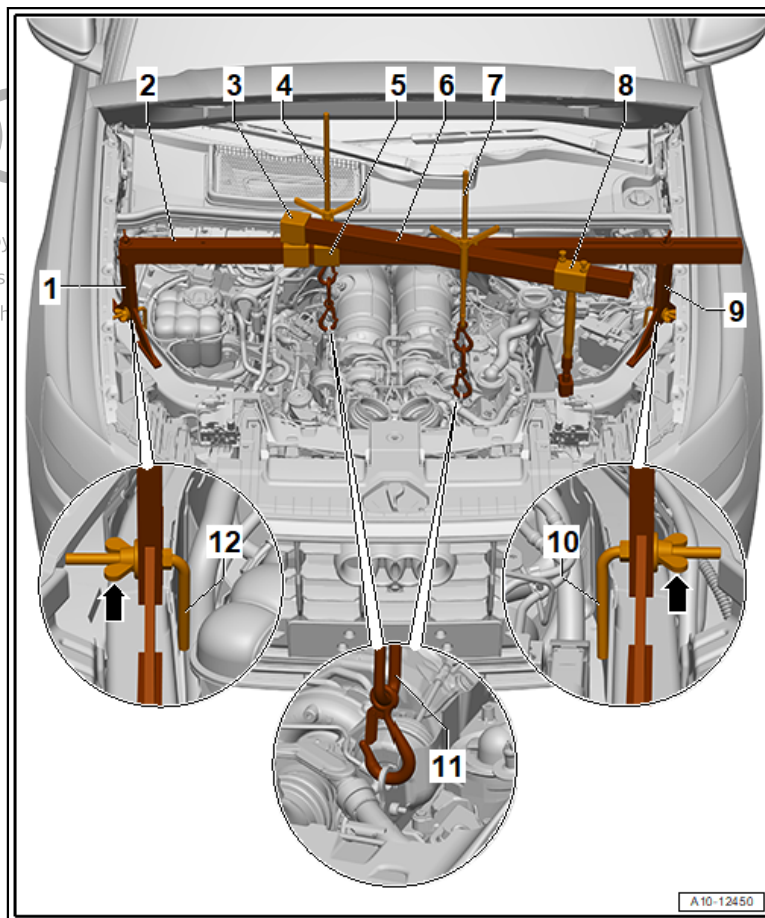
- ☐ With mounting from engine support supplementary set -T40093/3-

9 - Support -10-222A/1A-

10 - Adapter -10-222A/34-

11 - Hook -10-222A/2-

12 - Adapter -10-222A/34-



- Secure adapters -10-222A/34- to supports -10-222A/1A- with nuts -arrows-; adapters must engage in longitudinal member.
- Attach hooks -10-222A/2- to engine lifting eyes and to spindles -10-222A/11-.
- Tighten spindles slightly to take up weight of engine, but do not lift.

#### Assembling

Assembly is performed in reverse sequence; note the following:

- Install wing panel covers ⇒ General body repairs, exterior; Rep. gr. 50; Wing; Assembly overview - wing.
- Install air filter housing ⇒ [a3.2 nd installing air filter housing", page 237](#).

#### Tightening torques

- ◆ ⇒ General body repairs, exterior; Rep. gr. 50; Lock carrier; Assembly overview - lock carrier

## 2.3 Removing and installing engine mountings

⇒ [a2.3.1 nd installing engine mounting \(left-side\)", page 47](#)

⇒ [a2.3.2 nd installing engine mounting \(right-side\)", page 49](#)

### 2.3.1 Removing and installing engine mounting (left-side)

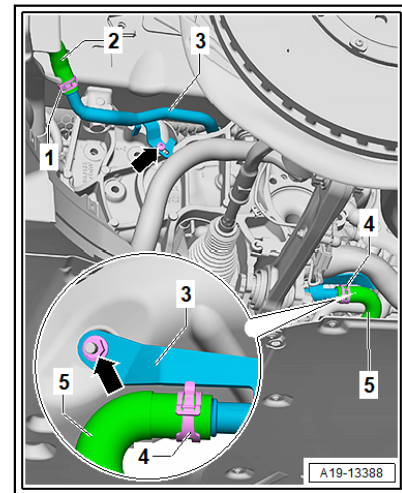
Special tools and workshop equipment required

- ♦ Adapter -VAS 6948-



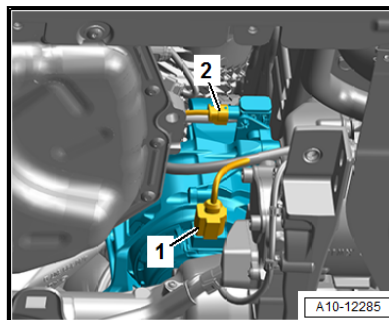
#### Removing

- Support engine in installation position ⇒ [e2.2 ngine in installation position", page 44](#) and take up weight with spindle -10-222A/11- until load on engine mounting is relieved.
- Remove air conditioner compressor from bracket and tie up to front ⇒ Heating, air conditioning; Rep. gr. 87; Air conditioner compressor; Detaching and attaching air conditioner compressor at bracket.
- Remove upper subframe shield (left-side) ⇒ Running gear, axles, steering; Rep. gr. 40; Subframe; Removing and installing subframe shield.
- Remove bolt and nut -arrows-.



- Press coolant pipe -3- to one side.
- Unplug electrical connectors and move clear:

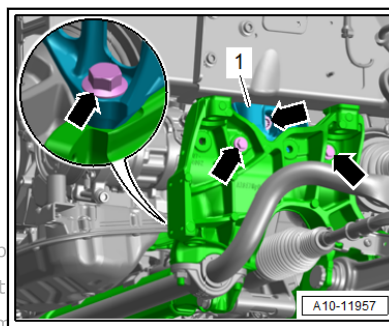




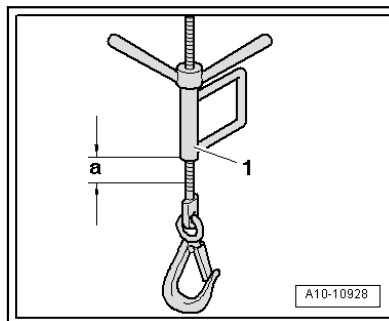
- 1 - For left electrohydraulic engine mounting solenoid valve -N144-
- 2 - For power unit mounting sender 2 -G749- (depending on version)
- Move electrical wiring clear.
- Remove bolts -arrows- for engine mounting -1- (example illustration).



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- Using spindle -10-222A/11- -item 1-, raise engine through distance -a- on corresponding side.



- Distance -a- = approx. 20 mm.
- Detach engine mounting.

### Installing

Installation is carried out in reverse order; note the following:

- After removing, renew bolts tightened with specified tightening angle.

- Install air conditioner compressor ➔ Heating, air conditioning; Rep. gr. 87; Air conditioner compressor; Detaching and attaching air conditioner compressor at bracket.
- Detach support bracket ➔ [e2.2 engine in installation position", page 44](#).

#### Tightening torques

- ♦ ➔ [o2.1 verview - assembly mountings", page 39](#)
- ♦ ➔ Running gear, axles, steering; Rep. gr. 40; Subframe; Assembly overview - subframe

### 2.3.2 Removing and installing engine mounting (right-side)

#### Special tools and workshop equipment required

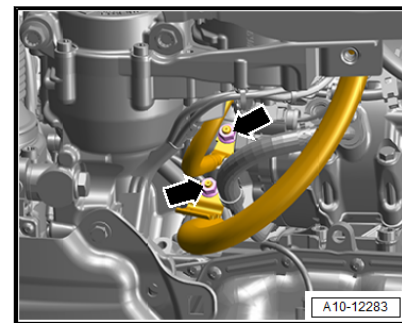
- ♦ Adapter -VAS 6948-



#### Removing

- Support engine in installation position ➔ [e2.2 engine in installation position", page 44](#) and take up weight with spindle -10-222A/11- until load on engine mounting is relieved.
- Remove noise insulation (front) ➔ General body repairs, exterior; Rep. gr. 66; Noise insulation; Assembly overview - noise insulation.

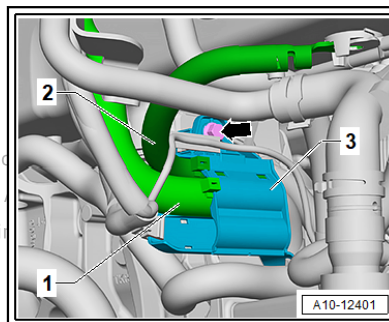
#### Vehicles with alternator:



- Unscrew nuts -arrows- and move electrical wiring clear (example illustration).
- Remove bolt -arrow- and move bracket -3- clear together with electrical wiring -1, 2-.



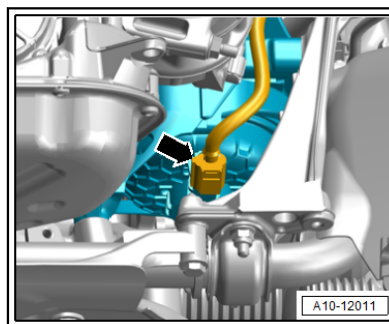
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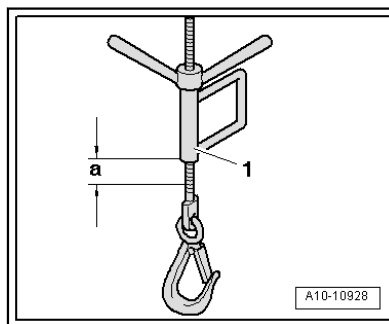
#### Vehicles with starter-alternator:

- Remove starter-alternator ➔ Electrical system; Rep. gr. 27; Alternator; Removing and installing alternator.

#### All vehicles (continued):



- Release and unplug electrical connector -arrow- for right electrohydraulic engine mounting solenoid valve -N145-. (Illustration shows left side.)
- Move electrical wiring clear.
- Using spindle -10-222A/11- -item 1-, raise engine through distance -a- on corresponding side.



- Distance -a- = approx. 20 mm.
- If fitted, unplug electrical connector -1- for power unit mounting sender 1 -G748- and move wiring clear.