

## 2 Coolant pump and 4/2-way valve with thermostat

### Overview

- ◆ ⇒ „2.1 Coolant pump and 4/2-way valve with thermostat - exploded view“, page 160
- ◆ ⇒ „2.2 Removing and installing coolant pump“, page 161
- ◆ ⇒ „2.3 Removing and installing 4/2-way valve with thermostat“, page 161
- ◆ ⇒ „2.4 Checking thermostat“, page 164

### 2.1 Coolant pump and 4/2-way valve with thermostat - exploded view

#### 1 - Coolant pump

- Removing and installing  
⇒ page 161

#### 2 - Bolt

- 15 Nm

#### 3 - O-ring

- Renew

#### 4 - O-ring

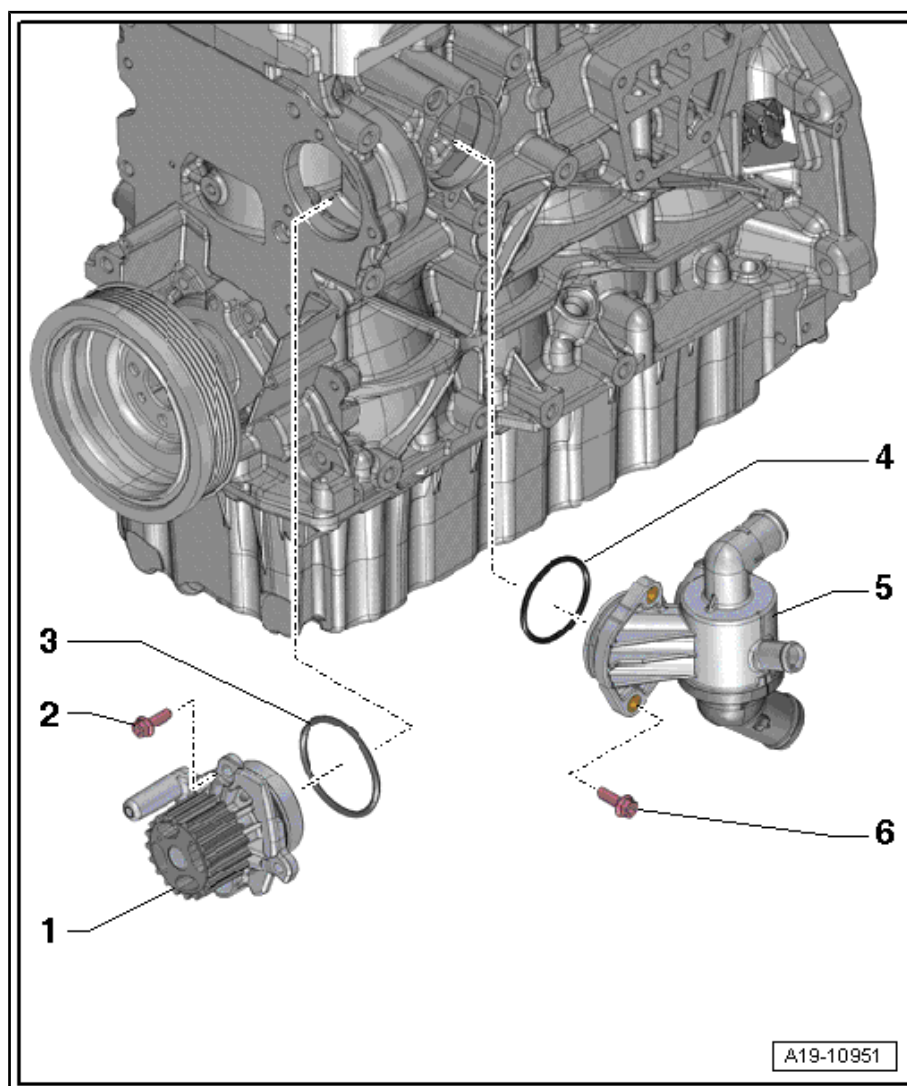
- Renew

#### 5 - 4/2-way valve with thermostat

- The thermostat is located in the interior of the 4/2-way valve and cannot be renewed separately
- Removing and installing  
⇒ page 161

#### 6 - Bolt

- 15 Nm



## 2.2 Removing and installing coolant pump

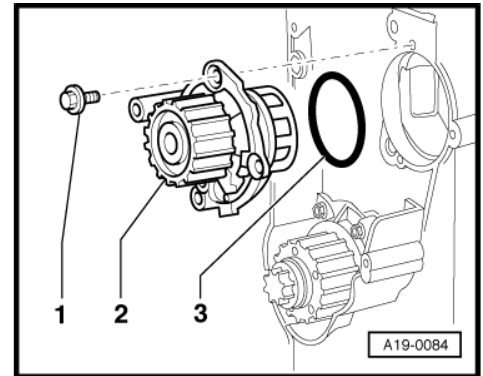
### Removing

- Drain coolant ⇒ [page 152](#) .
- Remove toothed belt ⇒ [page 78](#) .
- Unscrew bolts -1- and remove coolant pump -2-.
- Detach O-ring -3-.

### Installing

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

- Tightening torque  
 ⇒ „2.1 Coolant pump and 4/2-way valve with thermostat - exploded view“, [page 160](#)



### Note

*Fit new O-ring.*

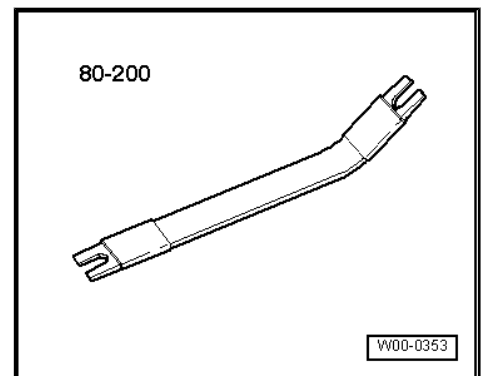
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- Clean and smoothen sealing surface for O-ring.
- Lightly lubricate O-ring -3- with coolant.
- Fit coolant pump -2-.
- Installation position: Sealing plug in housing faces downwards.
- Install toothed belt (adjust valve timing) ⇒ [page 81](#) .
- Fill up with coolant ⇒ [page 154](#) .

## 2.3 Removing and installing 4/2-way valve with thermostat

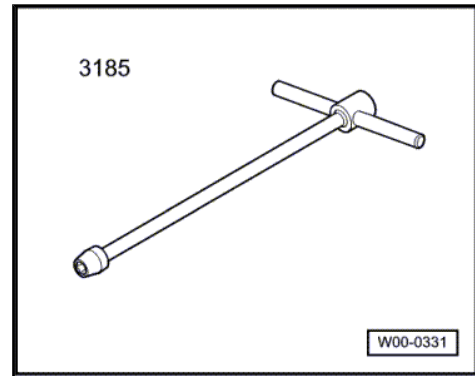
### Special tools and workshop equipment required

- ◆ Removal lever -80 - 200-

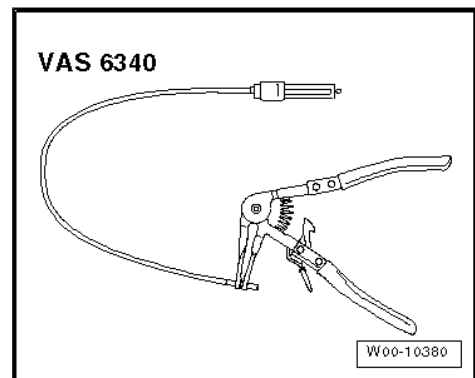




- ◆ T-bar and socket, 10 mm -3185-

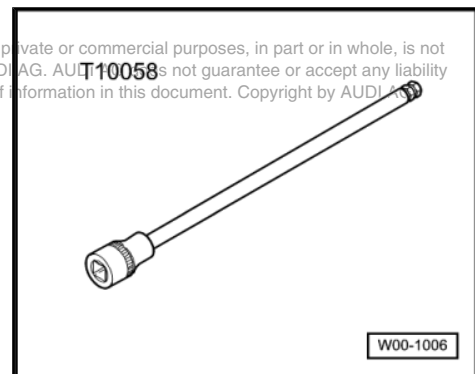


- ◆ Hose clip pliers -VAS 6340-



- ◆ Allen key, long reach -T10058-

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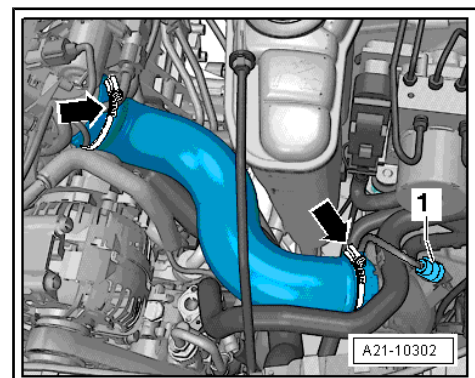
### Removing

- Remove coolant pipe (bottom left) ⇒ [page 170](#) .
- Release hose clips -arrows- and remove air hose.

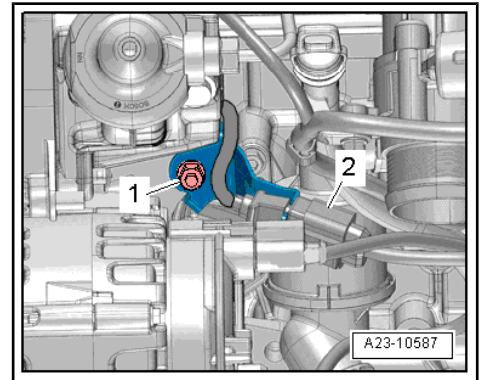


### Note

Disregard -item 1-.

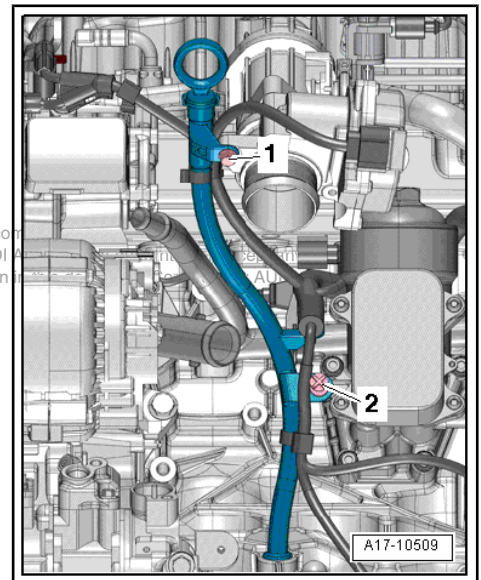


- Remove nut -1-.
- Move electrical connector -2- with bracket to one side.



- Pull oil dipstick out slightly and remove bolt -1-.
- Release clip -2- with removal lever -80 - 200- .
- Pull guide tube for oil dipstick upwards out of cylinder block and push to one side.

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- Remove bolts -2-.
- Release hose clips -3-, lift retaining clip -1- and detach coolant hoses.
- Detach 4/2-way valve with thermostat.

### Installing

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

- Tightening torques  
 ⇒ [„2.1 Coolant pump and 4/2-way valve with thermostat - exploded view“, page 160](#)

### Note

- ◆ *Fit new O-ring.*
- ◆ *Secure all hose connections with the correct type of hose clips (same as original equipment) ⇒ [Electronic parts catalogue](#) .*
- Install dipstick guide tube ⇒ [page 129](#) .
- Install air hoses with screw-type clips ⇒ [page 209](#) .
- Install coolant pipe (bottom left) ⇒ [page 170](#) .
- Connect coolant hose with plug-in connector ⇒ [page 184](#) .
- Fill up with coolant ⇒ [page 152](#) .

