



Removal and refitting of the fuel filter head.

Special tools:

- Plugs and caps : 170160



DANGER

After switching off the engine, wait at least 30 seconds before carrying out any work on the fuel system!



WARNING

During work on the fuel system always maintain conditions of the maximum cleanliness. Thoroughly clean the area around the components to be worked on. Dry any wet areas with a compressed air jet. When handling fuel observe the safety directives and specific local regulations. All lines and unions should be closed immediately after opening using new, clean plugs or caps. Remove plugs and caps only immediately prior to assembly. Collect operating materials in suitable containers and dispose of them in compliance with the applicable regulations. Bleed the fuel system after performing any work on the system itself - see chapter "6 Fuel system" in operating manual.

Removal of the fuel filter head.



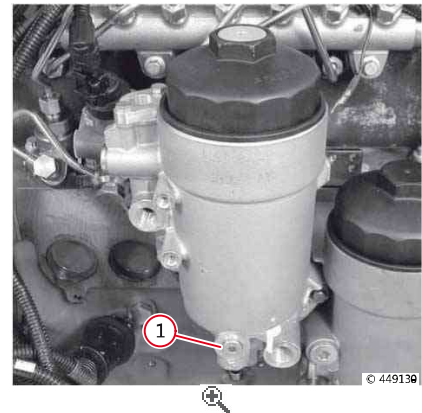
DANGER

After switching off the engine, wait at least 30 seconds before carrying out any work on the fuel system!



1.

- o Do not fully unscrew drain plug (1).
 - o Remove the seal.
 - o Drain, collect and dispose of used oil in accordance with the applicable regulations.
 - o Fit a new seal.
 - o Fit and tighten plug (1).
- See para. [Tightening requirements TCD 2012 L04/L06 4V DCR \(Lv.3\) engine](#)



2.

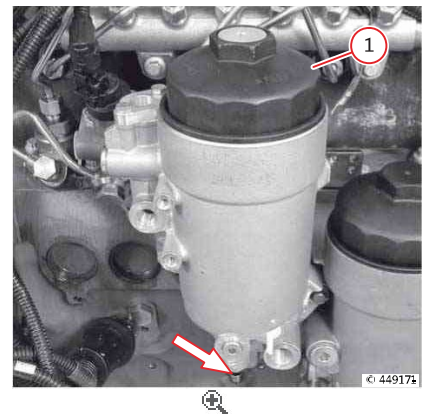
- o Undo the fuel filter cover (1) following the instructions given.
- o Remove the fuel filter cover and the filter cartridge.



NOTE

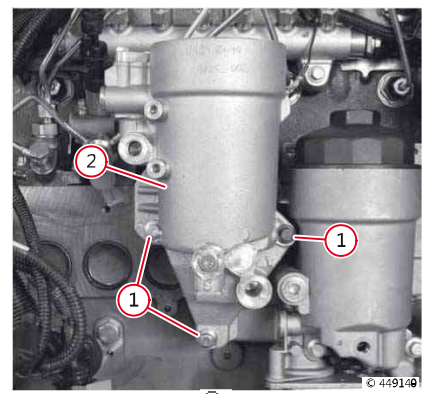
Ensure maximum cleanliness. Make sure no dirt falls into the fuel filter housing.

- o Remove the fuel lines.
- o Remove the seals.
- o Remove the cable connector (arrow) from the pressure transducer.



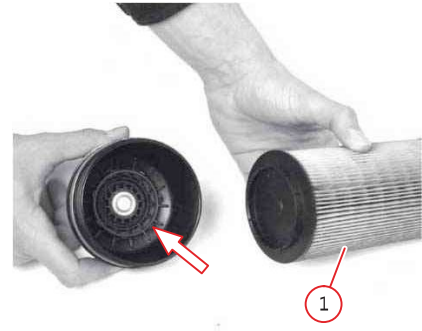
3.

- o Remove the screws (1)
- o Remove fuel filter head (2).



4.

- o Bend the filter cartridge slightly to one side to detach it from the brackets (arrow) in the fuel filter cover.
- o Detach the fuel filter (1).



5.

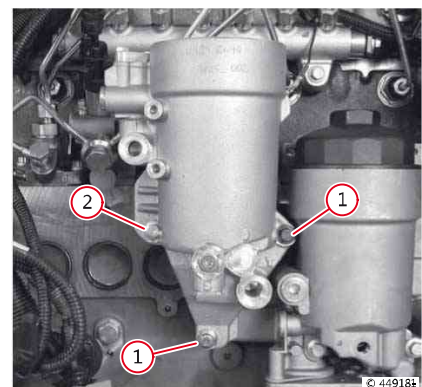
- o Carry out a visual inspection of the components.



6.

Refitting the fuel filter head.

- o Fit the fuel filter head.
- o Fit the screws.
 - o Screw length:
 - M8 x 80 (1)
 - M8 x 25 (2)

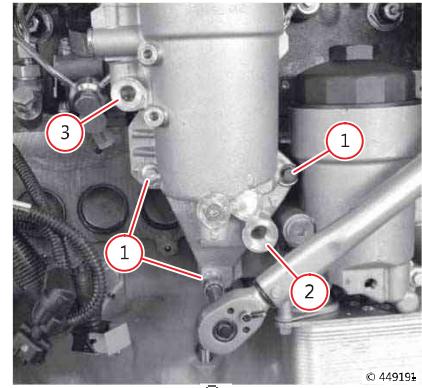


1.

- o Tighten (1) the screws.
 - o See [para. Tightening requirements TCD 2012 L04/L06 4V DCR \(Lv.3\) engine](#)
- o Insert the new O-rings.
- o Fit the fuel lines.
- o Tighten hollow screw (2).

See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine

- o Tighten hollow screw (3).
- See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine
- o Plug in the connector of the fuel pressure sensor.



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2.

- o Clean the mating surfaces.
- o Fit new O-ring (1).
- o Lightly lubricate the O-ring.



© 449201

3.

- o Press the filter cartridge in the direction of the arrow until it snaps audibly into place.



NOTE

Check the installation position is correct.



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4.

- o Fit the fuel filter cover and the filter cartridge.



© 449229

5.

- o Tighten the fuel filter cover, following the instructions given. See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



NOTE

Bleed the fuel system as indicated in the instruction manual, using the hand pump on the fuel pre-filter.



6.

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Removing and installing the fuel supply pump

Special tools:

- Plugs/caps 5.9035.177.0



DANGER

Wait 30 seconds after switching off the engine before working on the fuel system.



Attention!

Pay attention to utmost cleanliness when working on the fuel system. Clean the affected parts carefully. Blow damp areas dry with compressed air. Observe the safety regulations and specific national rules for handling fuels. Seal all connections immediately with new and clean plugs/caps after opening. Do not remove plugs/caps until immediately before assembling. Collect escaping fuel in suitable vessels and dispose of according to regulations. Only test / tighten / renew V-belts with the engine at a standstill.

Removing the fuel supply pump



DANGER

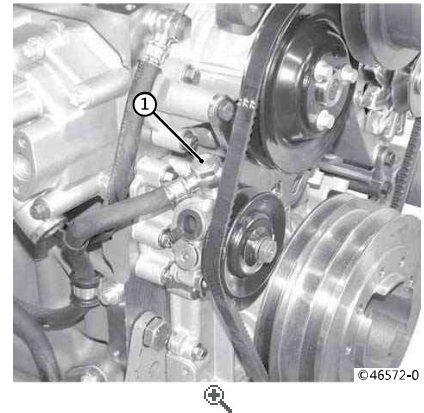
Wait 30 seconds after switching off the engine before working on the fuel system.



NOTE:

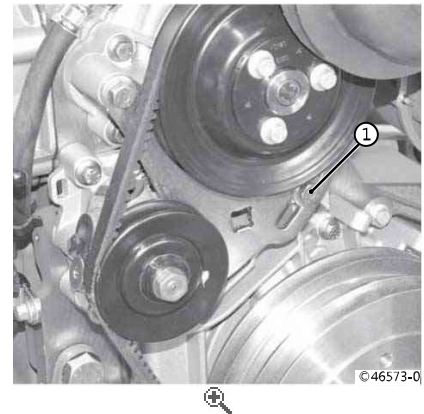
Collect draining fuel and dispose of according to regulations.

- Unscrew hollow screw (1).



1.

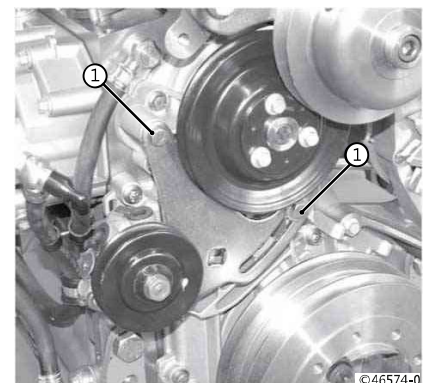
- Unscrew screws (1).
- Remove fuel supply pump.
- Remove V-belt.
- Visually inspect the components.



2.

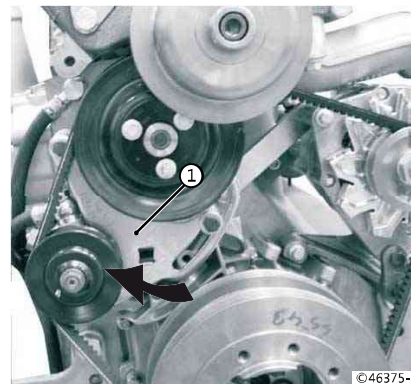
Installing the fuel supply pump

- Mount fuel supply pump.
- Tighten screws (1).



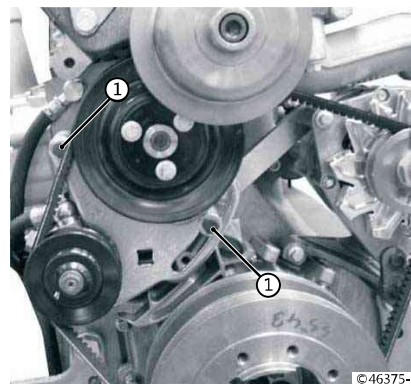
1.

- Mount V-belt.
- Press clamping strap (1) in direction of arrow with a suitable tool.



2.

- Pre-tighten screws (1).
- Check V-belt tension.
See para. Removing and installing the generator (operating side)



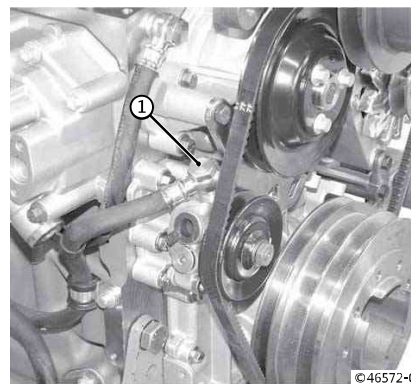
3.



NOTE:

Use new sealing rings. Bleed the fuel system via the manual fuel pump on the fuel pre-filter according to the operation manual.

- Tighten hollow screw (1).
See para. Tightening specifications for engine Deutz-AG



4.



Removing and installing the fuel supply pump

Special tools:

- Plugs/caps 5.9035.177.0



DANGER

Wait 30 seconds after switching off the engine before working on the fuel system.



ATTENTION!

Ensure utmost cleanliness when working on the fuel system. Carefully clean the area around the affected parts. Blow damp areas dry with compressed air. Observe the safety regulations and national specifications for handling fuels. Close all connections immediately after opening with new, clean plugs/caps. Do not remove plugs/caps until immediately before assembling. Collect leaking operating fluids in suitable vessels and dispose of according to regulations.

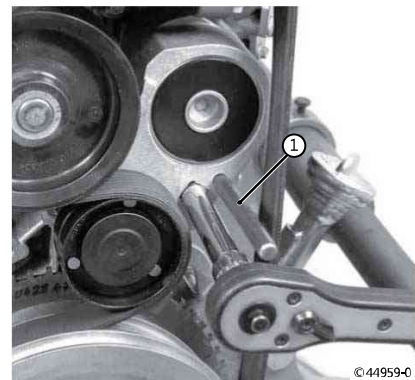
Removing the fuel supply pump



DANGER

Wait 30 seconds after switching off the engine before working on the fuel system.

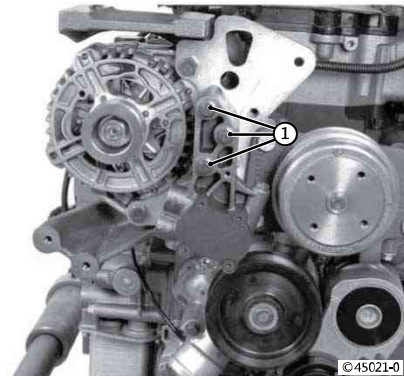
- Relieve the V-rib belt tension with the belt tightener.
- Insert holding pin (1).
- Mark the running direction of the V-rib belt.
- Remove V-rib belt.
- Remove fuel pipes.



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1.

- Unscrew screws (1)
- Remove fuel supply pump.



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2.

- Visually inspect the components.

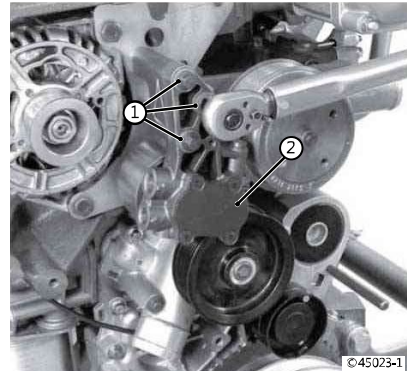


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3.

Installing the fuel supply pump

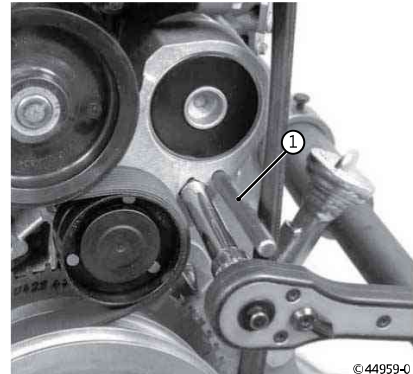
- Mount fuel supply pump (2).
- Tighten screws (1).
See para. [Technical data of Engine TCD 2012 4V](#)
- Install fuel pipes.
- Remove fuel pipes.



1.

 **NOTE:**
Ensure that the connection is perfect. Bleed the fuel system via the manual fuel pump on the fuel pre-filter according to the operation manual.

- Fit the V-rib belt according to the running direction.
- Relieve the belt tightener.
- Remove holding pin (1).



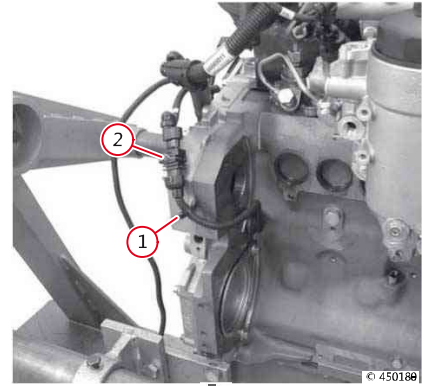
2.



Removal and refitting of the camshaft speed sensor

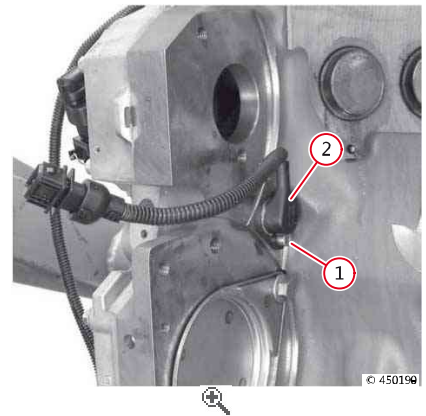
Removal of the speed sensor

- Remove cable tie (1)
- Unlock and detach connectors (2).



1.

- Remove screw (1).
- Remove speed sensor (2).



2.

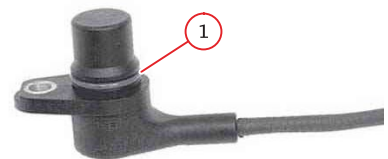
- Carry out a visual inspection of the components.



3.

Refitting the speed sensor

- Clean the mating surfaces.
- Fit new O-ring (1).
- Lightly lubricate the O-ring.



1.

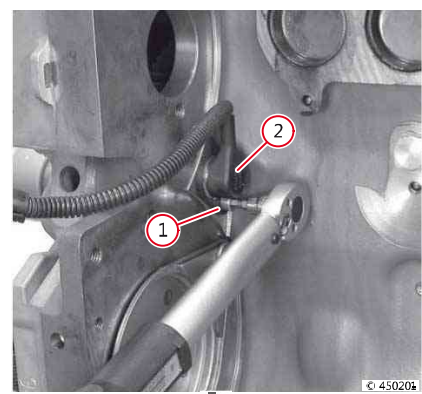
- o Clean the threads of the screw and the hole.
- o Fully press down the speed indicator (2).



WARNING

Do not hit the speed sensor!

- o Tighten screw (1).
See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



2.

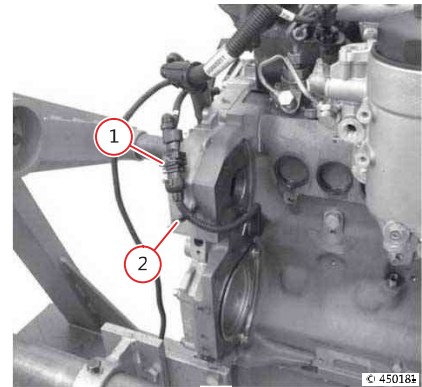
- o Reconnect wiring connector (1).



NOTE

Check that the connection is made correctly.

- o Position the cables.
- o Fix the cable tie (2).



3.

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