



Removal and refitting of the rotation device

Special tools:

- Rotation device: 100320

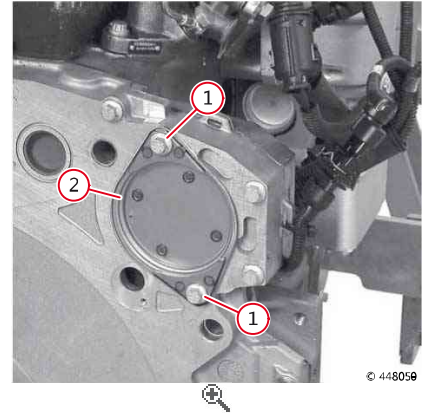


NOTE

Depending on the number of gear teeth, the rotation tool 100330 may also be used.

Fitting the rotation device

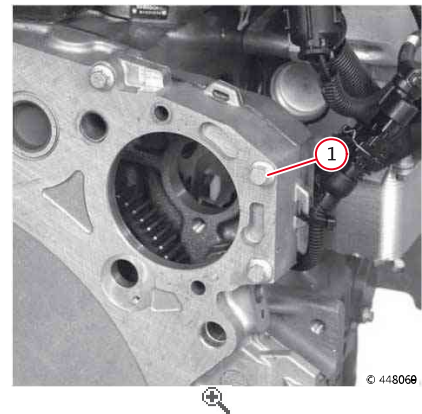
- Remove screws (1).
- Remove cover (2).



© 448059

1.

- Remove screw (1).



© 448069

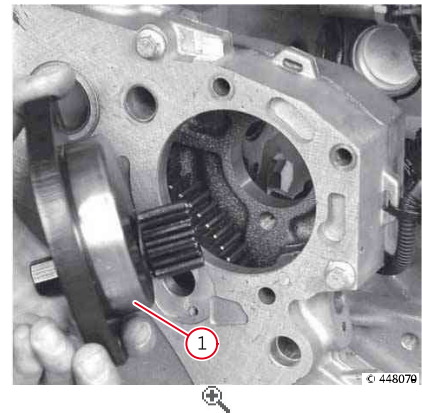
2.

- Insert rotation device (1).



NOTE

The toothed wheel of the rotation device must mesh with the teeth of the camshaft gear.



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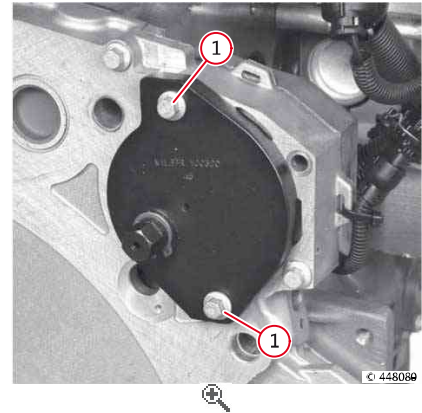
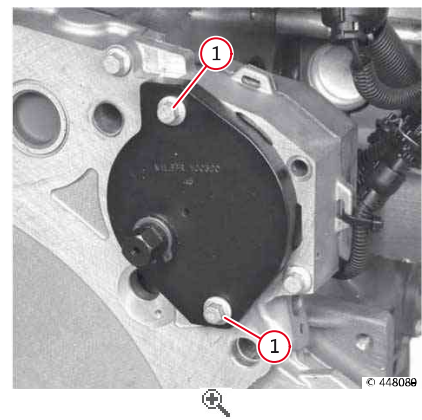
3.

- Tighten (1) the screws.

4.

Removal of the rotation device

- o Remove screws (1).
- o Remove the rotation device.



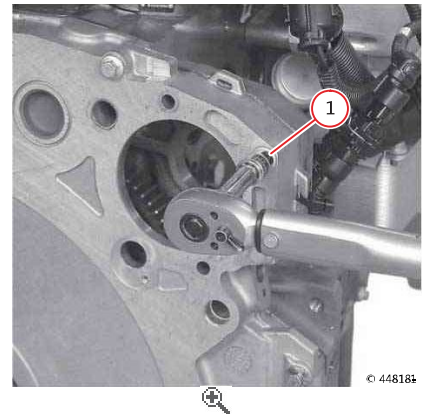
1.

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



NOTE

M8 x 45 mm



2.

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

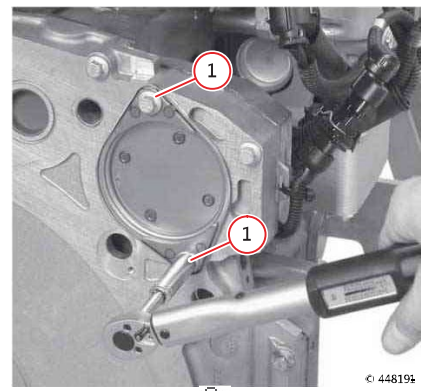


3.

- o Push the cover firmly into place.
- o Tighten (1) the screws.
See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine

NOTE

M8 x 50 mm



4.

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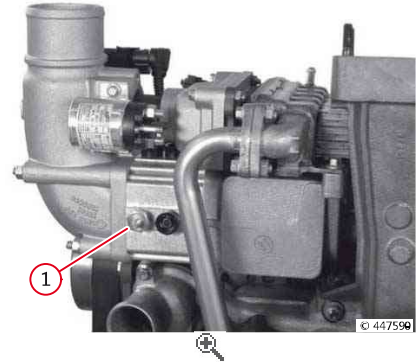
Removal and refitting of the heater

Assembly product:

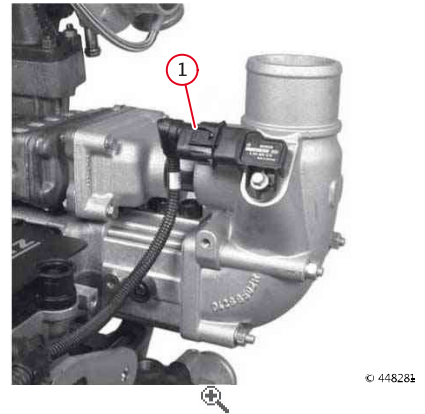
- DEUTZ AP1908

Removal of the heater

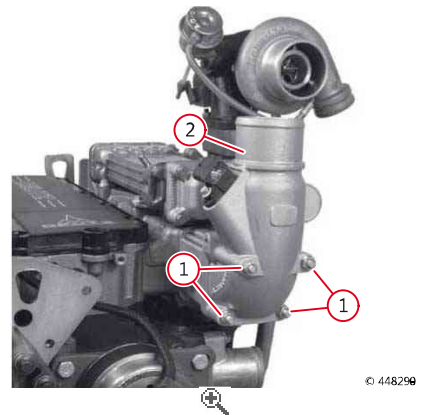
- o Disconnect the cable connectors (1).



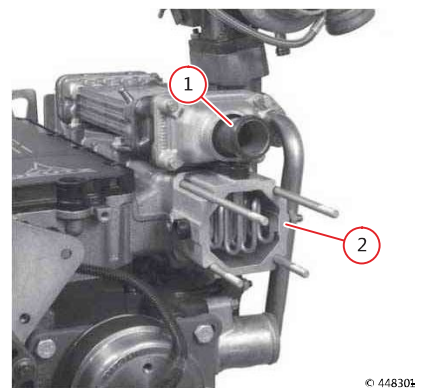
1.
 - o Unlock and disconnect wiring connectors (1).



2.
 - o Unscrew nuts (1).
 - o Remove the mixer pipe (2).
 - o Remove the gasket.



3.
 - o Remove the connection fitting (1).
 - o Withdraw heater (2).
 - o Remove the gasket.



4.

- o Carry out a visual inspection of the components.

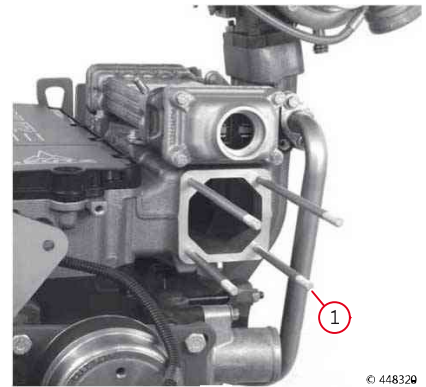


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5.

Refitting the heater

- o Clean the mating surfaces.
- o Tighten stud bolts (1).
See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



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1.

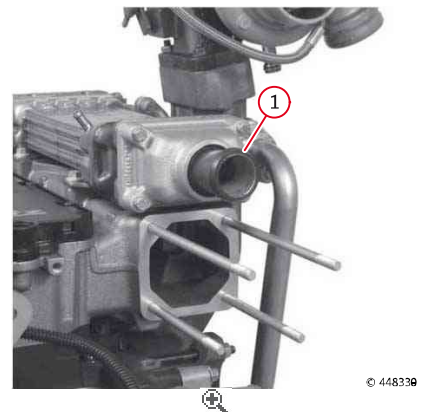
- o Fit the new O-rings (1).
- o Apply a thin coating of assembly product to the O-rings.



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2.

- o Install the connection fitting (1).



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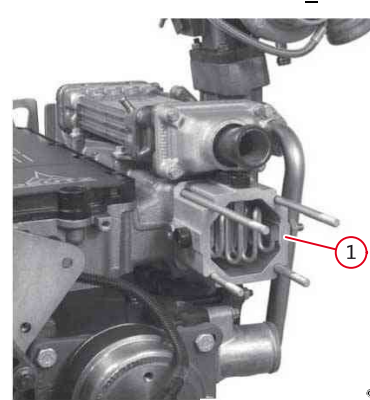
3.

- o Fit a new seal.
- o Fit the heater (1), sliding into place.

NOTE

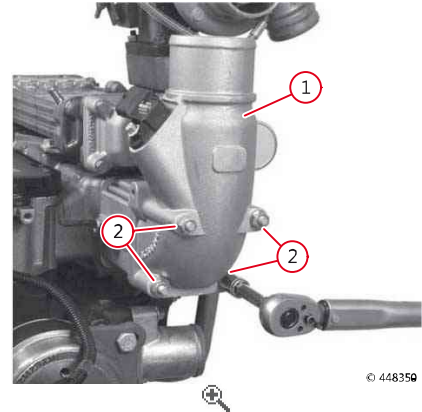


Observe the installation position.



4.

- o Fit a new seal.
 - o Fit the mixer pipe (1).
 - o Tighten nuts (2).
- See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



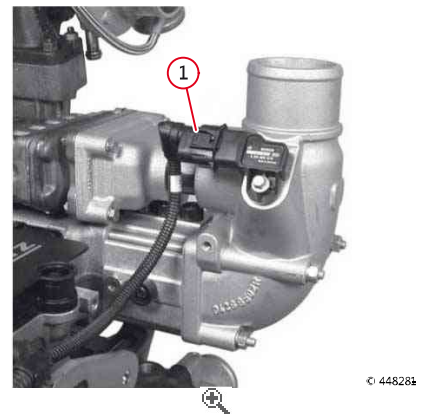
5.

- o Reconnect wiring connector (1).



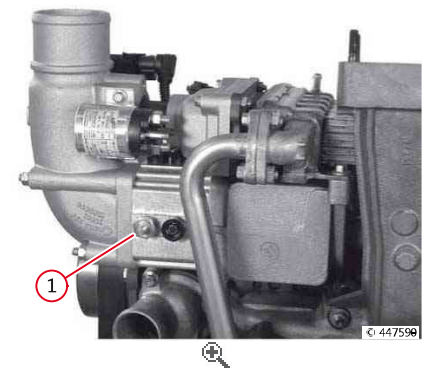
NOTE

Check that the connection is made correctly.



6.

- o Connect the cable connectors (1).



7.



Removal and refitting of the turbocharger

Commercially available tools:

- Fixed open ended wrench, 13 mm: 8196

Sealant:

- DEUTZ AP1908
- DEUTZ S1



WARNING

Remove plugs and caps only immediately prior to assembly.

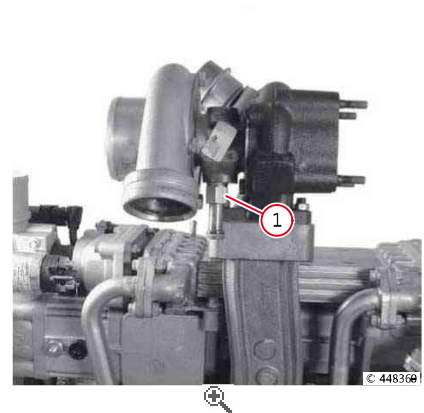


NOTE

Collect operating materials in suitable containers and dispose of them in compliance with the applicable regulations.

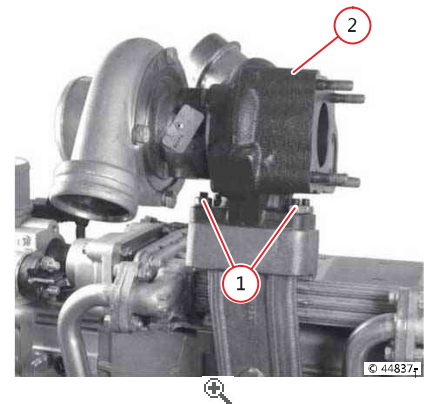
Removal of the turbocharger

- Disassemble the oil return pipe.
- Remove the lubricating oil pipe.
- Remove the pipe unions (1).



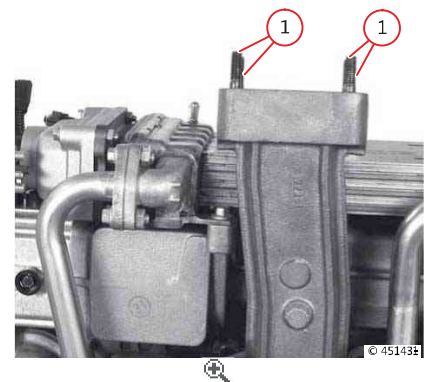
1.

- Unscrew all the nuts (1).
- Remove exhaust gas turbocharger (2).
- Remove the gasket.



2.

- Undo the stud bolts (1).



- 3.
- o Carry out a visual inspection of the components.

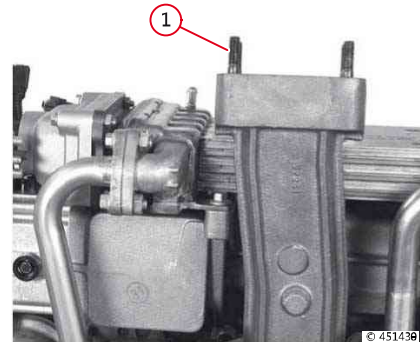


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4.

Refitting the turbocharger

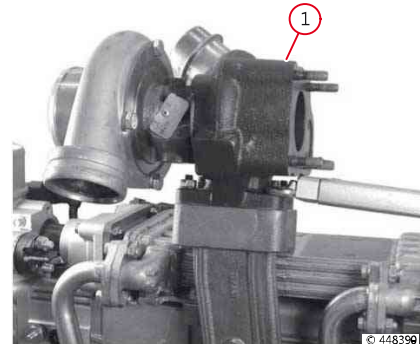
- o Clean the mating surfaces.
- o Apply DEUTZ S1 assembly product to the new stud bolts.
- o Tighten all the stud screws (1).
See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



© 451436

1.

- o Spread the assembly product DEUTZ S1 on all the stud screws.
- o Fit the new gaskets.
- o Fit turbocharger (1).
- o Tighten the nuts.
See para. Tightening requirements TCD 2012 L04/L06 4V DCR (Lv.3) engine



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2.

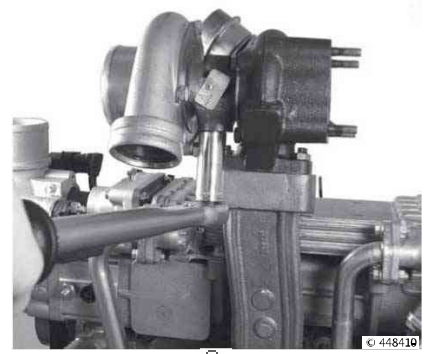
- o Install a new seal (1).
- o Fit a new O-ring (2).
- o Spread DEUTZ AP1908 sealant on the circular seal.



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3.

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

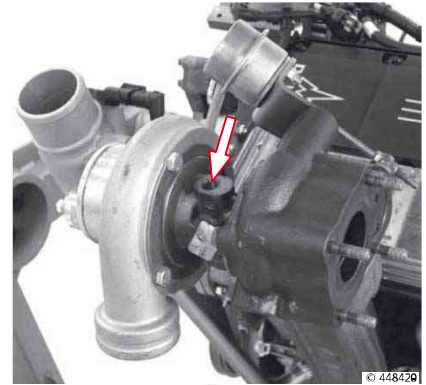


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4.

- Top up with clean lubricant oil (arrow).
- Assemble the oil return pipe.
- Connect the lubricating oil pipe.
- Tighten the banjo bolt.

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



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5.



Removing and fitting the butterfly valve (exhaust gas recovery)

Assembly product:

- DEUTZ AP1908

Removing the butterfly valve

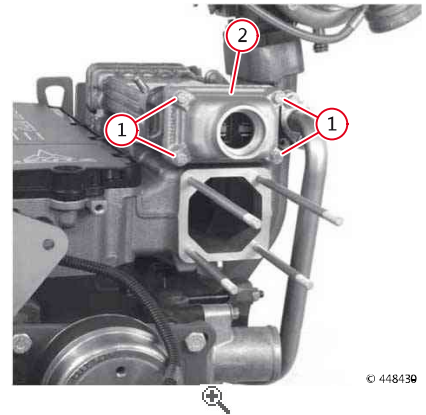
- o Remove the heater.
See para. Removal and refitting of the heater
- o Remove screws (1).



NOTE

Keep the nuts.

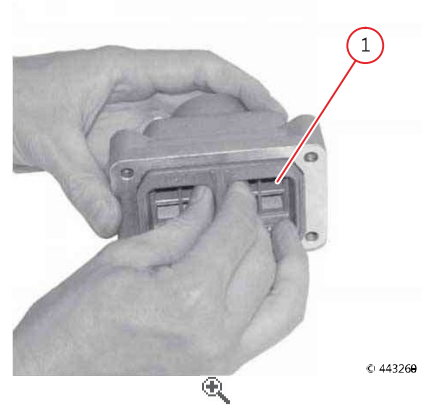
- o Remove the housing (2).
- o Remove the gasket.



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1.

- o Remove the butterfly valve (1).



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2.

- o Carry out a visual inspection of the components.



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3.

Fitting the butterfly valve

- o Fit the O-ring with sealant product.



NOTE

Check that the gasket assembly position is correct.

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