



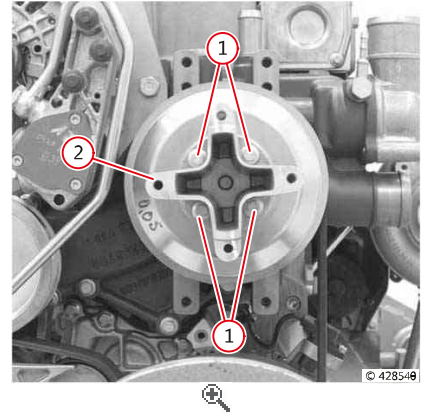
## Removing and fitting fan motor (L3)

Commercially available tools:

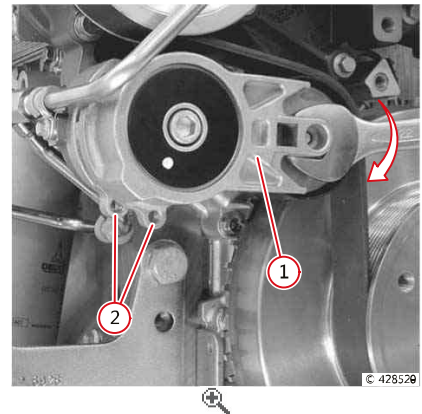
- Retaining pin, diameter 6 mm

### Removal of the fan drive

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



1.
  - Pull belt tensioner (1) in the direction of the arrow until holes (2) are aligned.

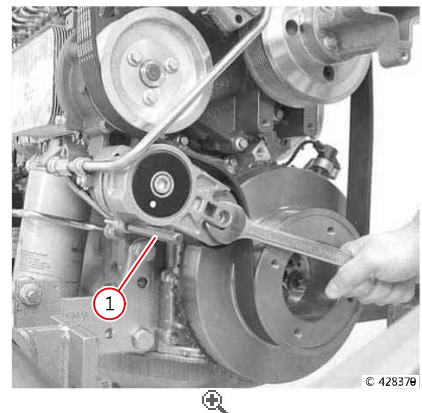


2.
  - Insert pin (1).



#### Note

If the ribbed V-belt is to be re-used, the same rotation direction must be maintained.

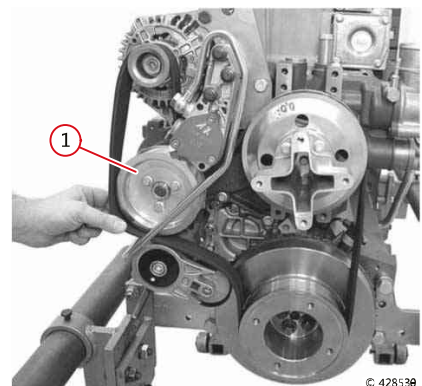


3.
  - Mark the rotation direction of the V-belt.
  - Remove the V-belt.



#### Note

If the ribbed V-belt is to be re-used, the same rotation direction must be maintained. First, remove the ribbed V-belt from pulley (1).



4.

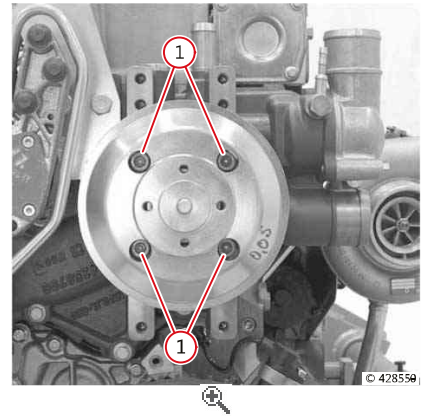
- o Remove screws (1).
- o Fit the fan drive with the V-belt pulley.



**Note**

Note the position of the fan drive.

- o Carry out a visual inspection of the components.



5.

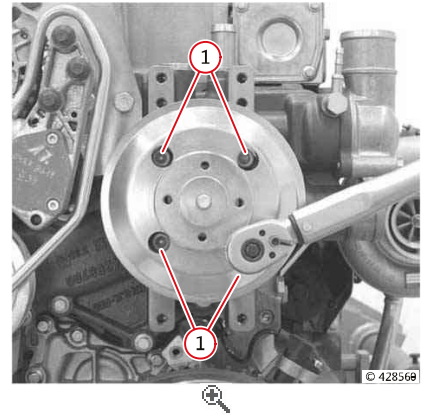
**Refitting the fan drive**

- o Fit the fan drive with the V-belt pulley.
- o Tighten (1) the screws.  
See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine



**Note**

Note the position of the fan drive.



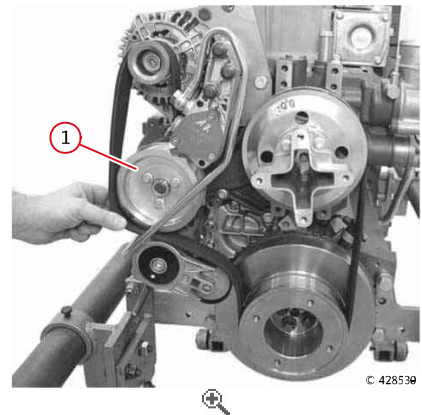
1.

- o Fit the ribbed V-belt, checking that the rotation direction is correct.



**Note**

Finally, fit the ribbed V-belt to pulley (1). Check the installation position is correct.



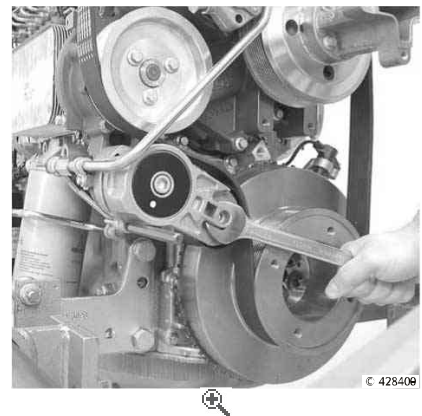
2.

- o Counterhold the belt tensioner.
- o Remove pin.
- o Release the belt tensioner.



**Note**

The belt tensioner should automatically tension the ribbed V-belt.



3.

**Checking the ribbed V-belt for wear.**

**Note**



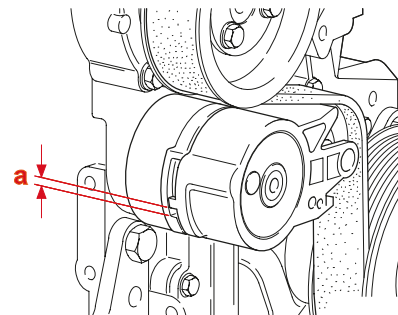
The fuel pipe has been removed for clarity.

- o Measure dimension (a).



**Note**

If distance (a) is less than 3 mm, the ribbed V-belt must be renewed.

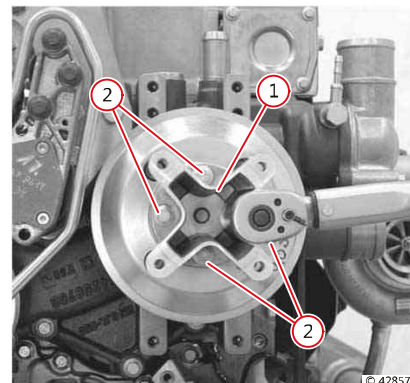


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1.

- o Fit adapter (1).
- o Tighten screws (2).  
See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine



© 428579



2.



## Removing and fitting fan mount (L3)

- Assembly product: DEUTZ AP1908
- Sealant: DEUTZ DW 74



### Note

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

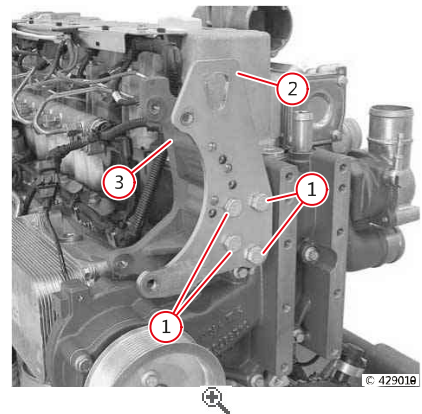
## Removal of the fan support

- Remove the fan drive.  
See para. Removing and fitting fan motor (L3)
- Remove the belt tensioner.  
See para. Removing and fitting belt tensioner (ribbed V-belt) (L3)
- Remove the fuel lift pump.  
See para. Removing and fitting the fuel delivery pump (driven by ribbed V-belt) (L3)
- Remove the alternator.  
See para. Removing and fitting the alternator (driven by ribbed V-belt) (L3)



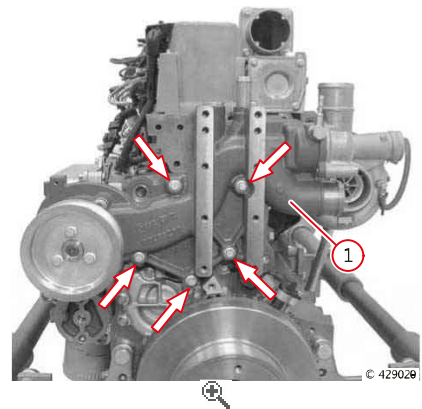
1.

- Remove screws (1).
- Remove transport flange (2).
- Remove alternator support (3).



2.

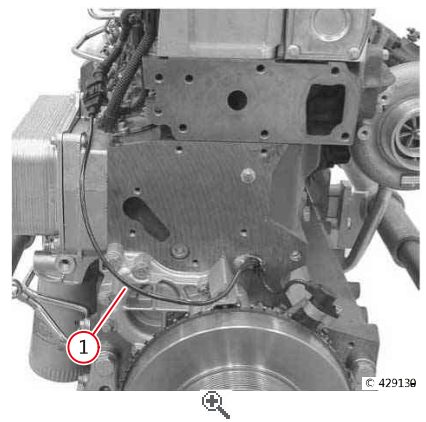
- Unscrew the screws (arrowed).
- Remove fan support (1).



3.

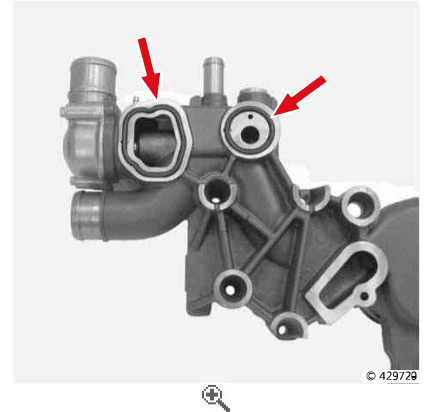
## Refitting the fan support

- Pull cable (1) forwards slightly.



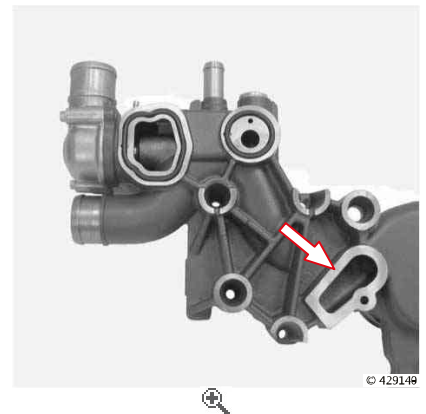
1.

- Clean the mating surfaces.
- Apply the assembly product to the new seals.
- Fit new seals (arrowed).



2.

- Apply mastic (arrowed).



3.

- Fit the fan support.
  - Tighten the screws (arrowed).
- See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine



**WARNING**

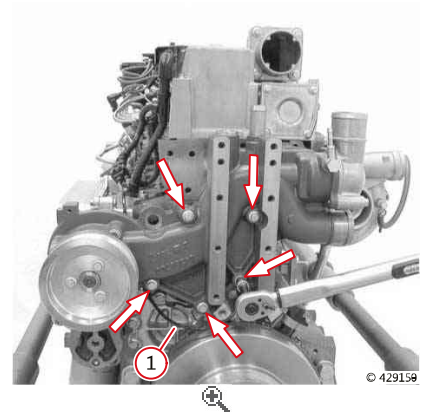
Do not connect cable (1).



**Note**

Do not disturb the mastic.

- Route the cable between the front cover and the fan support.



4.

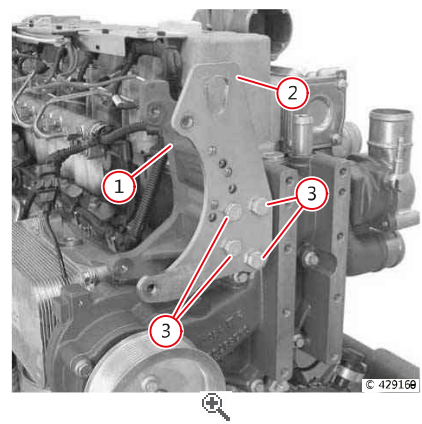
- Locate alternator support (1) with the transport flange.
- Tighten screws (3).



**Note**

Do not tighten the screws at this stage.



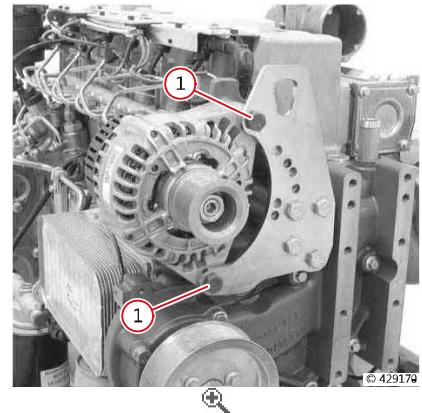


- 5.
- Fit the alternator.
  - Tighten screws (1).



**Note**

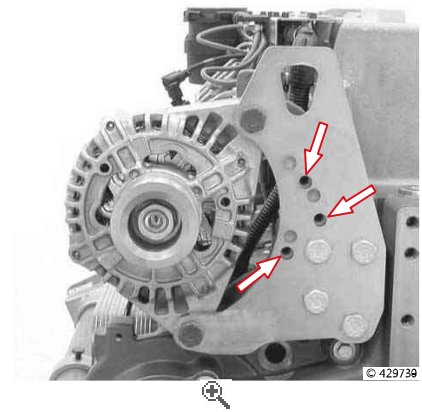
Do not tighten the screws at this stage.



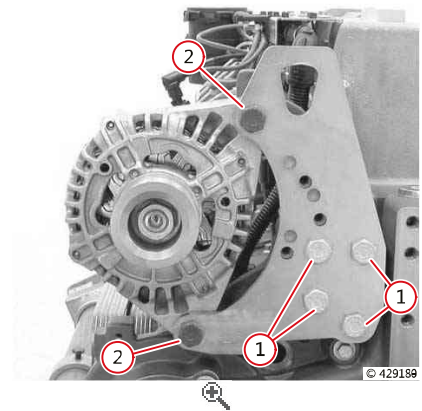
- 6.
- 

**Note**

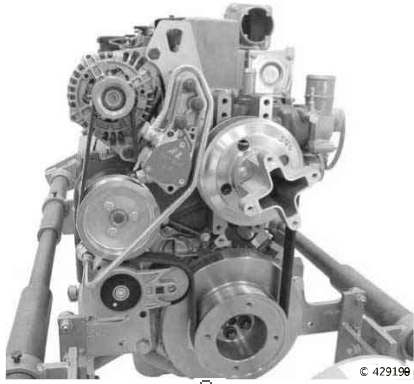
The holes in the transport flange (arrowed) must be aligned with the threaded holes in the alternator support.



- 7.
- Tighten (1) the screws.  
See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine
  - Tighten screws (2).  
See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine



- 8.
- Fit the fuel lift pump.  
See para. Removing and fitting the fuel delivery pump (driven by ribbed V-belt) (L3)
  - Fit the belt tensioner.  
See para. Removing and fitting belt tensioner (ribbed V-belt) (L3)
  - Fit the fan drive.  
See para. Removing and fitting fan motor (L3)



9.

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## Disassembly and assembly of the torsional vibration damper (L3)

Commercially available tools:

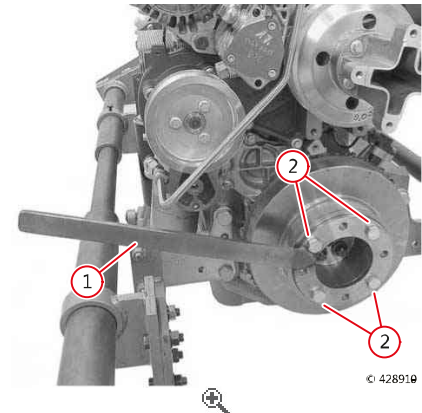
- Rotation angle gauge: 8190
- Box spanner insert Torx E20: 8114

Special tools:

- Counterhead: 144800

### Removal of the torsional vibration damper

- Remove the belt tensioner.  
[See para. Removing and fitting belt tensioner \(ribbed V-belt\) \(L3\)](#)
- Fit locking device (1).
- Tighten screws (2).



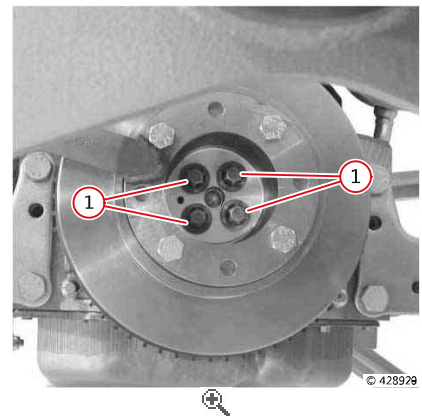
1.

- Remove screws (1).
- Remove the torsional vibration damper



#### Note

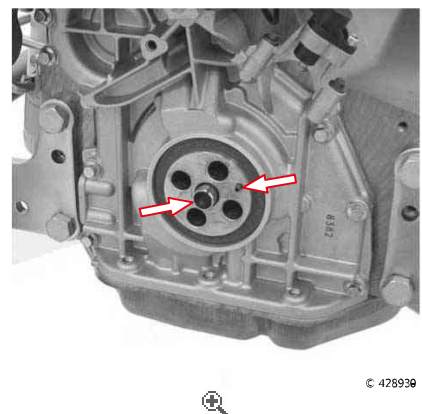
Use the box spanner insert.



2.

### Refitting the torsional vibration damper

- Check that the bushes (arrowed) are present.



1.

- Fit the torsional vibration damper.



#### Note

Bush (1) should engage hole (2).



2.

- o Tighten the new screws with the box spanner insert and the rotation angle gauge.  
See para. Tightening requirements TCD 2012 L04/L06 2V DCR engine

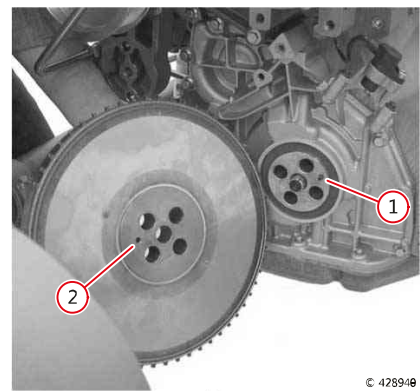


**WARNING**

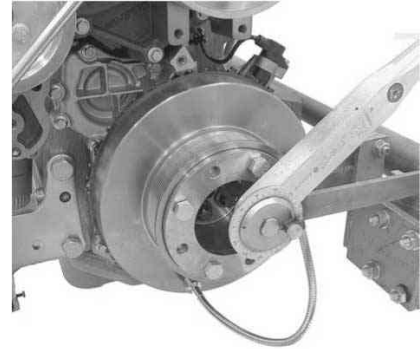
The screws must be renewed after being removed.

- o Remove the locking device.
- o Fit the belt tensioner.  
See para. Removing and fitting belt tensioner (ribbed V-belt)\_(L3)

3.



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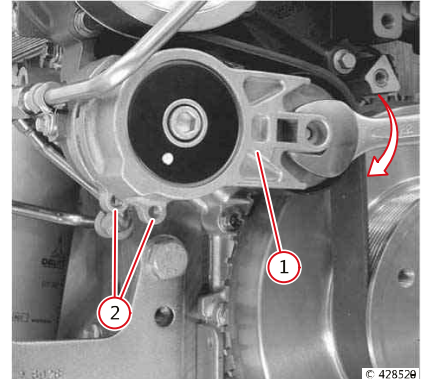
## Removing and fitting belt tensioner (ribbed V-belt) (L3)

Commercially available tools:

- Pin, diameter: 6 mm

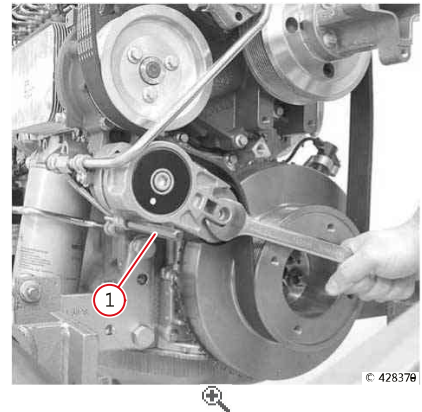
### Removing the belt tensioner

- Pull belt tensioner (1) in the direction of the arrow until holes (2) are aligned.



1.

- Insert pin (1).



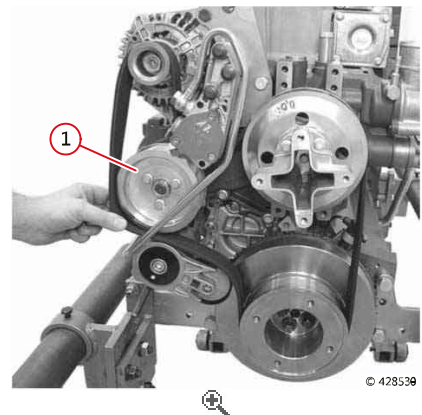
2.

- Remove the V-belt.



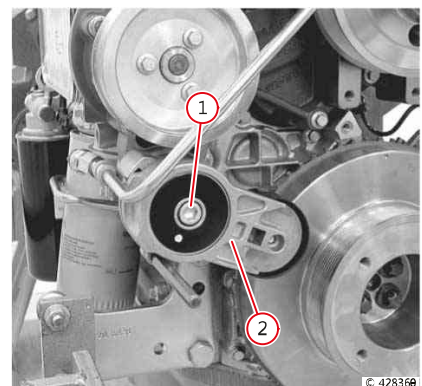
#### Note

If the ribbed V-belt is to be re-used, the same rotation direction must be maintained. First, remove the ribbed V-belt from pulley (1).



3.

- Remove screw (1).
- Remove belt tensioner (2).
- Carry out a visual inspection of the components.



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