

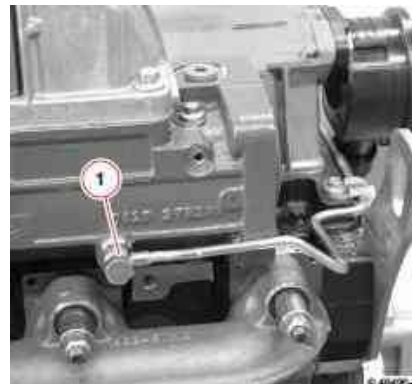


Removal and refitting of the charge air duct

- DEUTZ DW 72 mastic

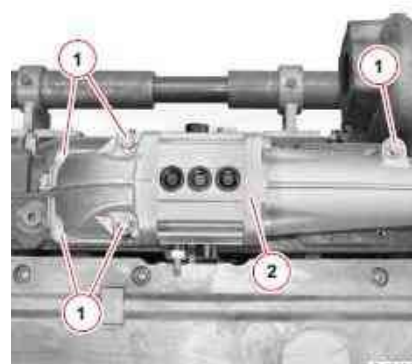
Removal of the charge air duct

- Unscrew hollow screws (1).
- Remove the seals.



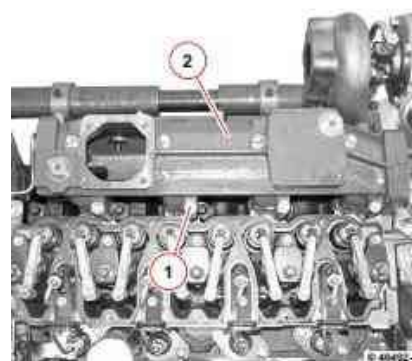
1.

- Disconnect the wiring connectors.
- Remove screws (1).
- Remove charge air manifold (2).
- Remove the gasket.
- Remove the connector element.



2.

- Remove the cylinder head cover.
See para.
- Remove all the screws (1).
- Remove the charge air duct (2).
- Remove the gaskets.
- Carry out a visual inspection of the component.



3.

Refitting the charge air duct

- Clean the mating surfaces.
- Fit new gaskets (1).



NOTE

Check the installation position is correct.



© 404023-0



1.

- Fit the charge air duct.



© 404034-0



2.

- Fit the screws.



NOTE

Do not disturb the gaskets.

- Tighten the screws: 11 Nm.



NOTE

Tightening sequence Start from centre working outwards.



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3.

- Fit the cylinder head cover.
See para.
- Clean the mating surfaces.
- Fit the new gasket (1).



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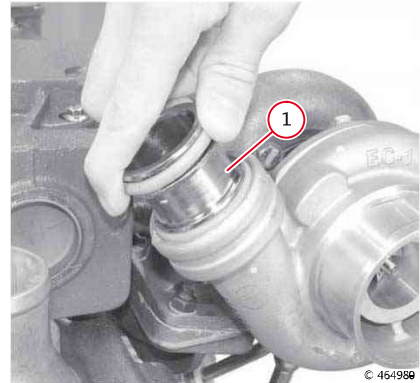
4.

- Tighten the new O-rings (1).



5.

- o Apply assembly product to connection fitting (1).
- o Install the connection fitting (1).



6.

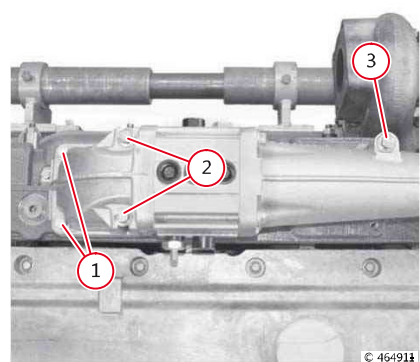
- o Fit the charge air duct.
- o Fit screws (1) using thread locking agent.
- o Fit screws (2) using thread locking agent.
- o Fit the screws.



NOTE

Note that the screws are of different lengths M8 x 30 mm (1). M8 x 95 mm (2). M8 x 80 mm (3).

- o Tighten the screws: 30 Nm.
- o Reconnect the wiring connector



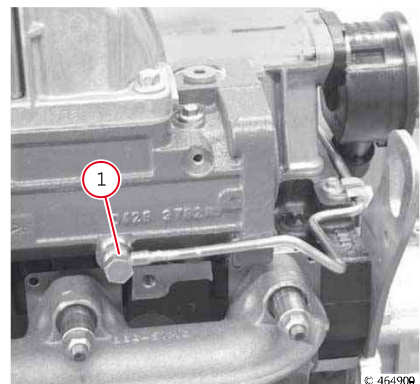
7.

- o Tighten the hollow screw (1): 18 Nm.



NOTE

Use new seals.



8.



Fitting and removing injection pump

1. Commercially available tools:

- Socket wrench insert, 10 mm, twelve-sided
- Toothed insert for socket wrench 8117
- Rotation angle gauge: 8190

Special tools:

- Rotation device: 100320
- Presser tool: 100830
- Special pliers: 103220
- Extractor: 110030
- Special wrench: 110500
- Slide hammer extractor: 150800
- Plugs and caps: 170160
- DEUTZ AP1908 assembly product

WARNING



During work on the fuel system always maintain conditions of the maximum cleanliness. Before proceeding with removal, remove any paint residue or debris. 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 fuel 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 auxiliary materials in suitable containers and dispose of them in compliance with the applicable regulations.

NOTE



If replacing the injection pump, remeasure the thickness of the shim. The EP code must be changed on the factory plate. In the event of replacement of the crankcase, camshaft or roller tappets, determine the correct assembly measurement of the injection pump "EK" and the relative part number EP, and modify accordingly on the identification plate.

Disassembly of the injection pump

- Remove the hollow connector from the engine block.
- Disassemble the cylinder head case (1).
See para.



1.

- Remove screws (1).



2.

- Withdraw the engine block (1).

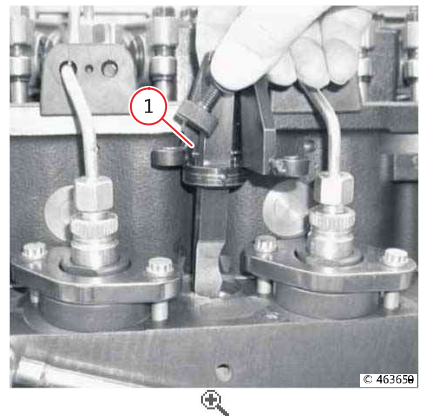
3.

- Fit the presser tool (1).



4.

- Tighten (1) the screws.



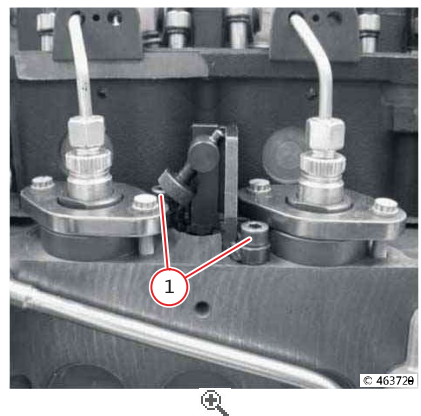
5.

- Turn the knurled screw (1).



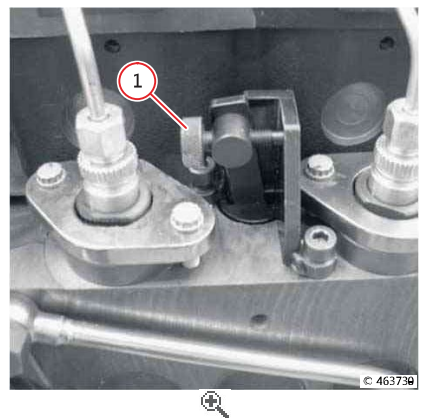
NOTE

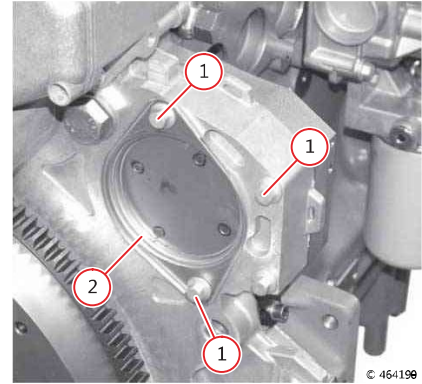
Turn the knurled screw until it stops (adjuster rod end stop)



6.

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





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7.

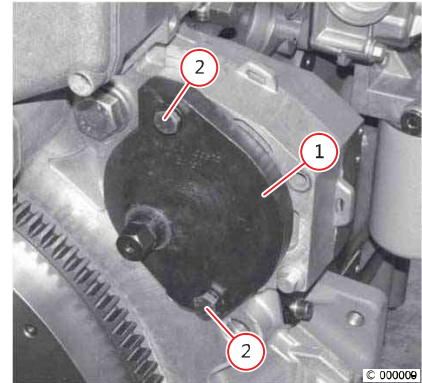
- Insert rotation device (1).



NOTE

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

- Tighten screws (2).



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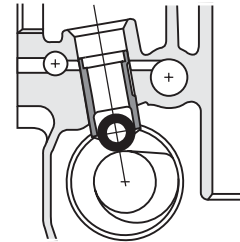
8.

- Turn the crankshaft in the correct direction of rotation of the engine to align the injector pump actuator cam for the respective cylinder with the base disc.



Example:

The intake valve of cylinder 1 is open.



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9.

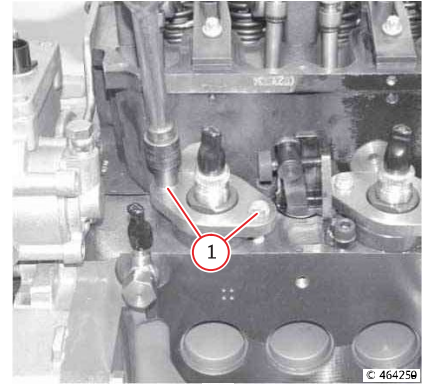
- Remove the injection pipe with a special wrench.



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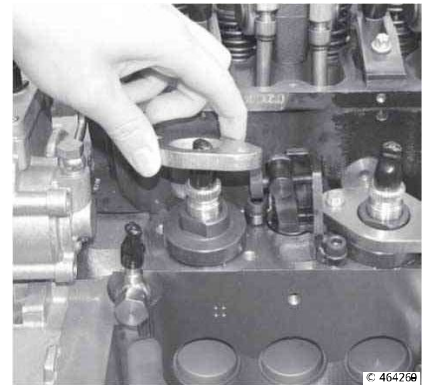
10.

- Remove screws (1).



11.

- Remove the flange



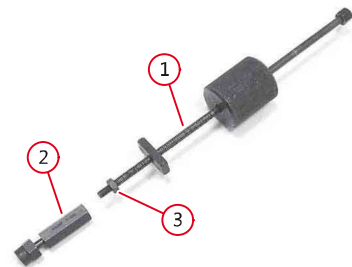
12.



NOTE

If the injection pump is seized:

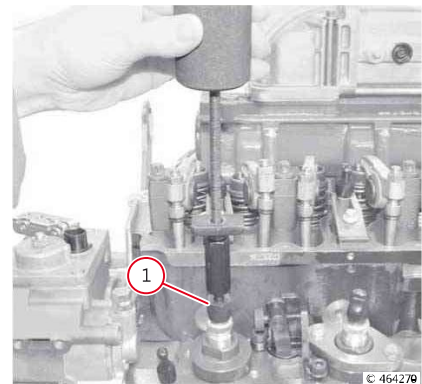
- Assemble the slide hammer extractor (1) and extractor (2).
- Tighten the check nut (3).



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13.

- Fit the slide hammer extractor onto the injection pump.
- Screw the sleeve nuts (1).
- Remove the seized injection pump.



14.

- Remove the injection pump.
- Carry out a visual inspection of the component.

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