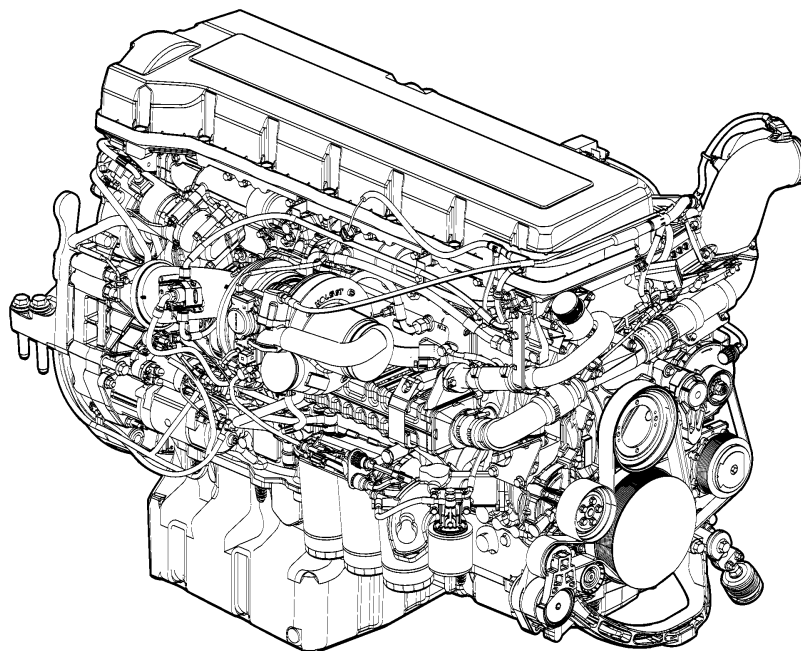


Date	Group	No.	Page
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Oil Filter Housing
Replacement
D16F

Oil Filter Housing, Replacement



W2005772

This information covers the procedure for replacing the oil filter housing on the Volvo D16F engine.

Contents

- "Oil Filter Housing, Replacement" page 2

Note: Information is subject to change without notice. Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

Service Procedures

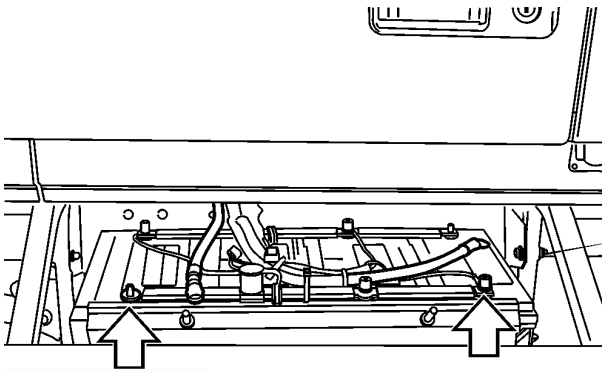
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Oil Filter Housing, Replacement

You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

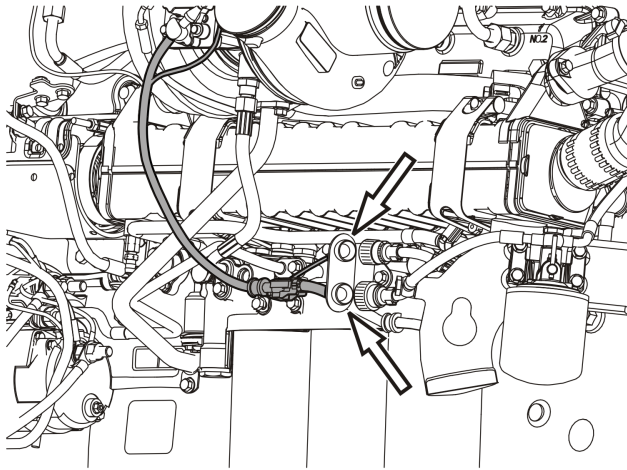
Removal

- 1**
Apply the parking brake and place the shift lever in neutral.
- 2**
Remove all cables from ground (negative) battery terminals to prevent personal injury from electrical shock.



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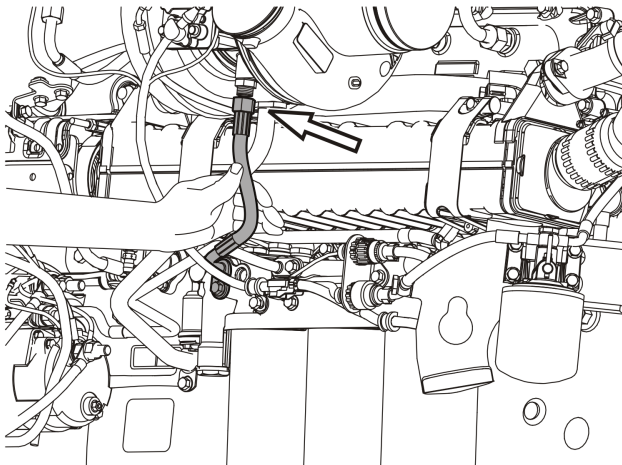
- 3**
Remove inner splash guard as an assembly.
Note: Some models may be equipped with fender extenders attached to the inner splash guard. Remove these as an assembly.



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4

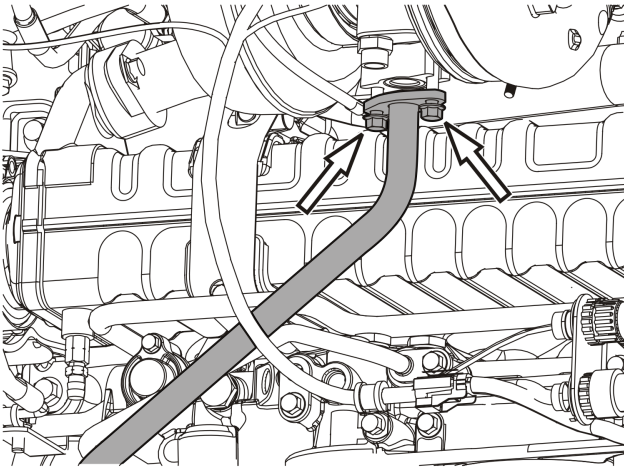
Cut the tie strap securing the turbocharger actuator and speed sensor wiring harnesses. Disconnect and remove the connectors mounted in the bracket at the oil filter housing. Disconnect the clamp securing the harness to the oil filter housing. Then remove the harness connector bracket from the oil filter housing.



W2005624

5

Disconnect the oil supply line from the bottom of the turbocharger and from the oil filter housing.



W2005628

6

Disconnect the oil drain pipe from the bottom of the turbocharger spacer block. Discard the gasket and O-ring from the spacer block. Also disconnect the oil drain pipe from the cylinder block.

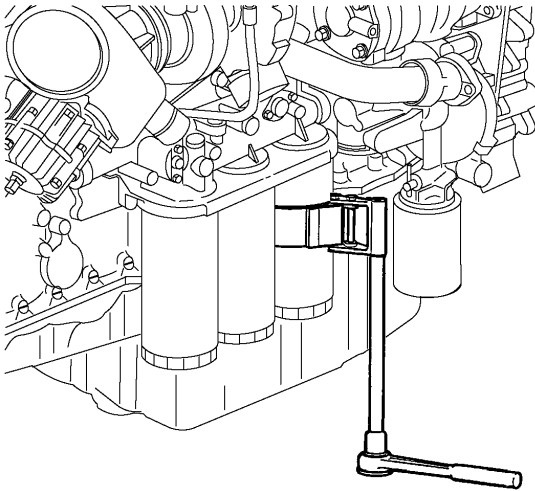
7

Disconnect any remaining oil lines from the oil filter housing. Remove and discard any sealing washers.

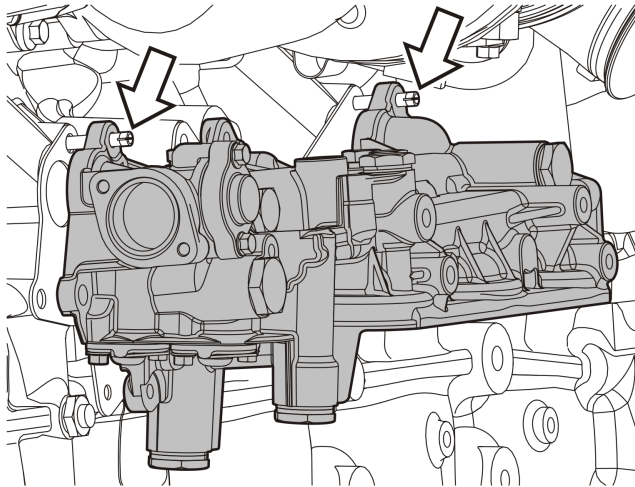
8

Clean around the oil filter housing and oil filters. Remove the oil filters using the oil filter wrench or the oil filter socket.

Note: Place a pan below the filters to catch any oil.



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W2006229

9

Remove two upper bolts from the oil filter housing and replace them with short alignment pins. Remove the remaining oil filter housing bolts.

10

Separate the oil filter housing from the cylinder block and remove and discard the housing gasket.

Installation

1

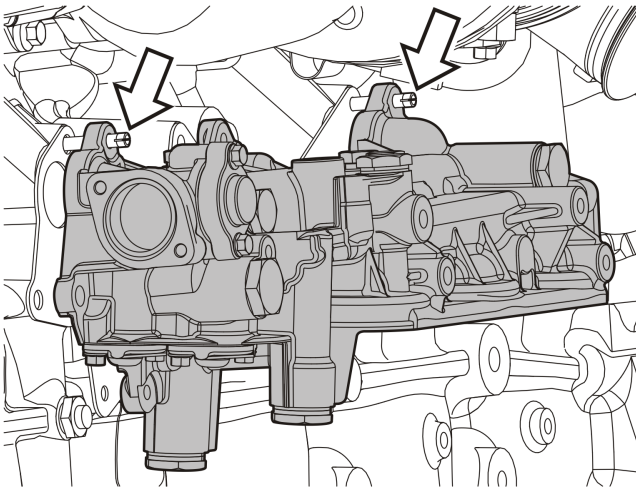
Clean the mounting surfaces of the oil filter housing and the cylinder block.

2

Install a new oil filter housing gasket over the alignment pins against the cylinder block.

3

Install the oil filter housing over the alignment pins and against the gasket.



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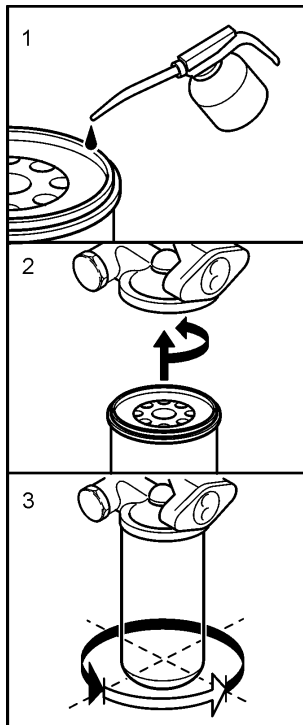
4

Install the oil filter housing bolts and hand tighten them. Replace the alignment pins with the remaining two bolts. Tighten the oil filter housing bolts to 24 ± 4 Nm (18 ± 3 ft-lb).

24 ± 4 Nm (18 ± 3 ft-lb)

5

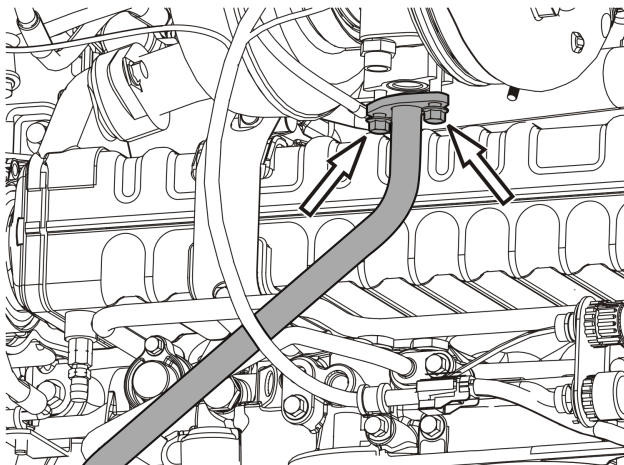
Install the oil lines to the oil filter housing. Use new sealing washers as needed.



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6

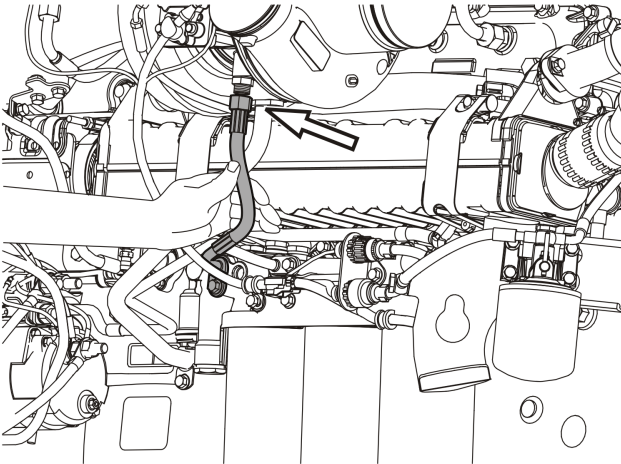
Obtain new oil filters and fill them with engine oil. Lubricate the oil filter gaskets with oil (1). Hand-tighten the filters until they contact the face of the oil filter housing (2). Manually tighten the oil filters an additional 3/4 to 1 full turn (3).



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7

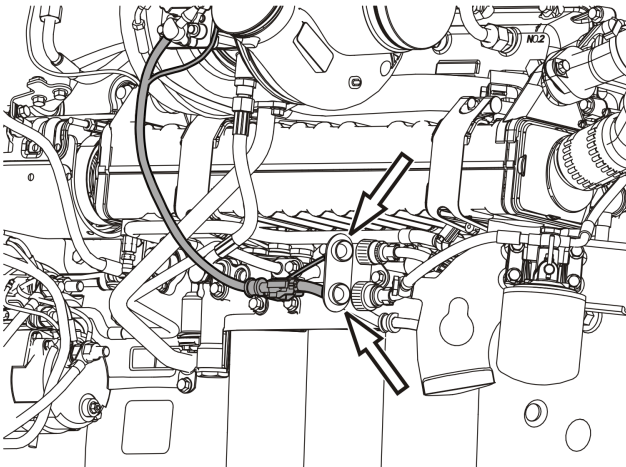
Replace and lubricate the turbocharger oil drain pipe seal rings and connect the pipe to the cylinder block. Connect the oil drain pipe to the bottom of the turbocharger spacer block with new gasket. Tighten to specification.



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8

Connect the oil supply line to the bottom of the turbocharger and to the oil filter housing.



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9

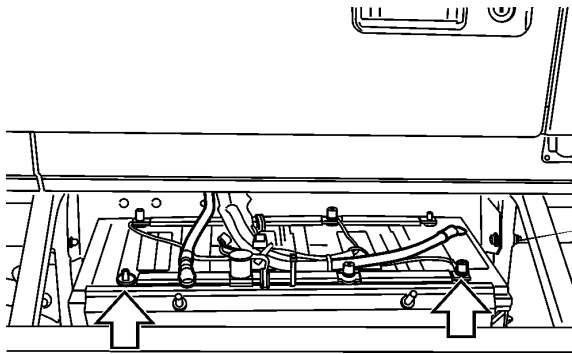
Install the wire harness connector bracket to the oil filter housing. Install the connectors to the bracket on the oil filter housing. Install the clamp to secure the harness to the oil filter housing. Install a new tie strap to secure the turbocharger actuator and speed sensor wiring harnesses to the oil drain pipe.

10

Install the inner splash guard assembly.

11

Check the oil level and fill with approved engine oil as needed.



W2003815

12

Install all previously removed cables to the ground (negative) battery terminals.

13

Start the engine, check for leaks and proper operation. After shutdown, replenish fluids as necessary.