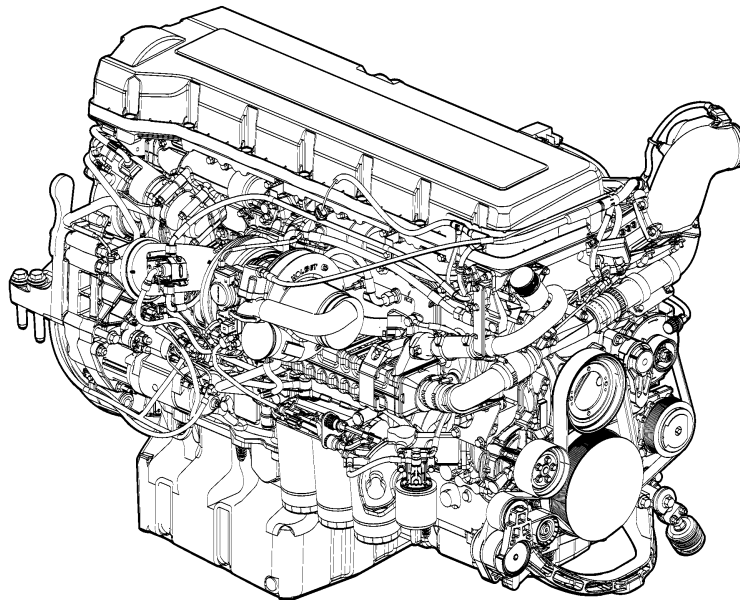


This Service Bulletin replaces SB 230-32, "Cooling System Service," dated (1.2007), publication no. PV776-20177193.

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Fan Blade Replacement D16F

Fan Blade, Replacement



W2005772

This information covers the proper service procedures for the fan blade on a chassis with the Volvo D16F engine.

Contents

- "Special Tools" page 2
- "Fan Blade, Replacement" page 3

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.

Tools

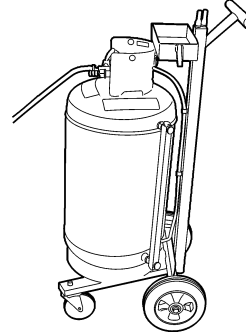
Special Tools

For special tool ordering instructions, see tool information in group 08.



W0001795

9996049
Coolant Drain Hose



W2004191

DBT2V700
Coolant Extractor

Service Procedures

2631-03-02-02

Fan Blade, Replacement

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

Special tools: 9996049, DBT2V700

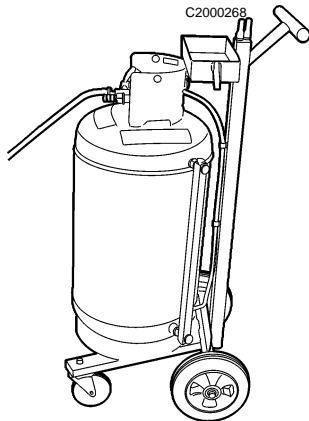
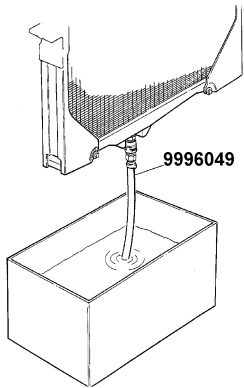
Removal

- 1**
Rotate the steering so that the front wheels are to the full right position.

- 2**
Remove all cables from ground (negative) battery terminals to prevent personal injury from electrical shock.

- 3**
Raise the hood of the vehicle.

4



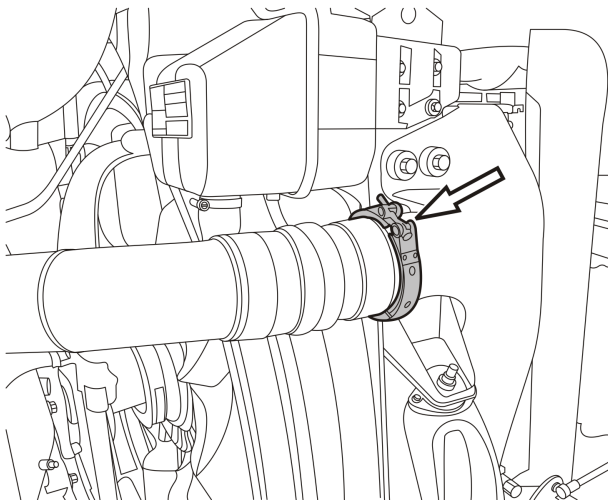
W2004191

Drain the coolant into a suitable container using the drain hose. If available, use the coolant extractor to remove the coolant.

9996049, DBT2V700

5

Loosen the clamps and remove the charge air inlet pipe (turbocharger-to-charge air cooler).



W2006040

6

Remove the upper radiator hose from the radiator and the static fill and bypass hoses from the expansion tank.

7

Remove the fasteners that secure the fan blade to the fan clutch hub. Set the fan blade against the radiator inside the shroud.

8
Remove the fasteners and spacers that secure the fan ring to the brackets on the engine and then, remove the fan ring from the engine compartment.

9
Remove the fan blade from inside the radiator shroud and out of the engine compartment.

Installation

1
Place the fan blade inside the radiator fan shroud and lean it against the radiator.

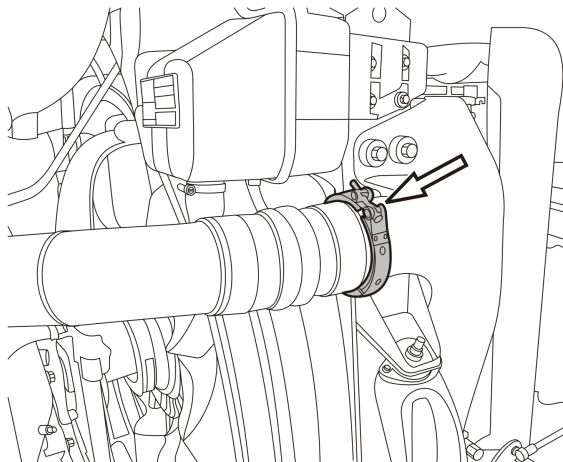
2
Position the fan ring against the fan shroud and align with the brackets on the engine. Install the fasteners and spacers and tighten to secure.

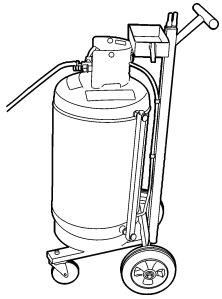
3
Set the fan blade against the fan clutch hub, install the fasteners and tighten to secure the fan blade.

4
Connect the low coolant sensor harness connector to the sensor on the expansion tank and secure the harness with a tie strap.

5
Connect the upper radiator hose to the radiator and the static fill and bypass hoses to the expansion tank. Position all the clamps and tighten to secure.

6
Install the charge air inlet pipe (turbocharger-to-charge air cooler) along with new clamps. Position the new clamps and tighten them to secure the pipe.





W2004191

7

Fill the cooling system with the recommended coolant using the coolant extractor.

8

Rotate the steering so that the front wheels are to the straight ahead position.

9

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

10

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

11

Close the hood when done.