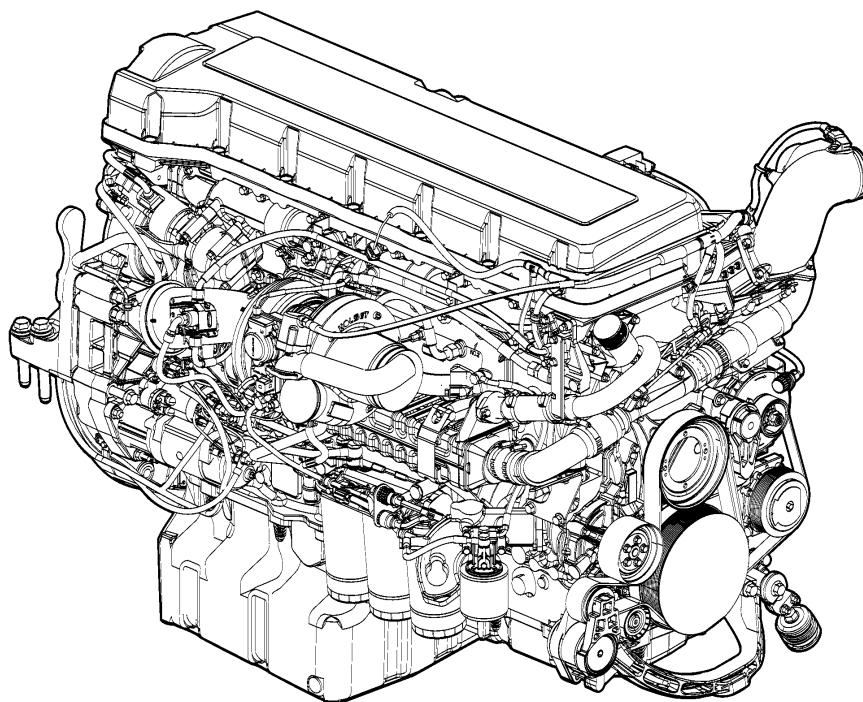


Discharge Recirculation Valve Replacement D16F

Discharge Recirculation Valve, Replacement



W2005772

This information covers the proper replacement procedure for the discharge recirculation valve on the Volvo D16F engine.

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

Service Procedures

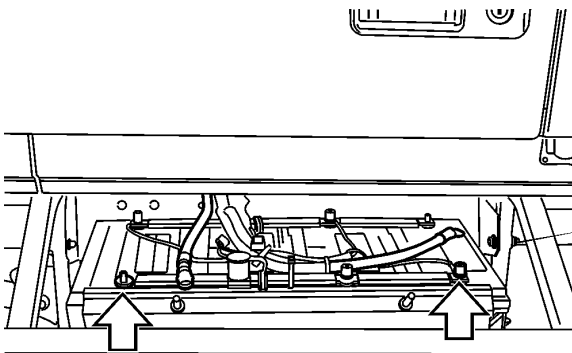
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Discharge Recirculation Valve, Replacement

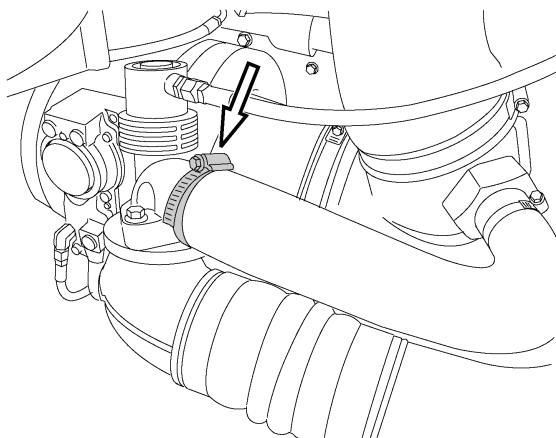
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

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.



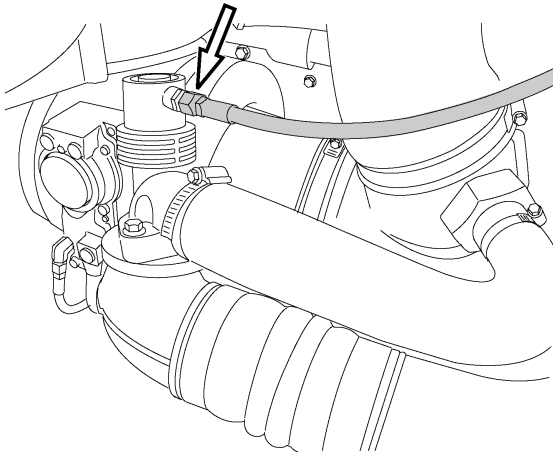
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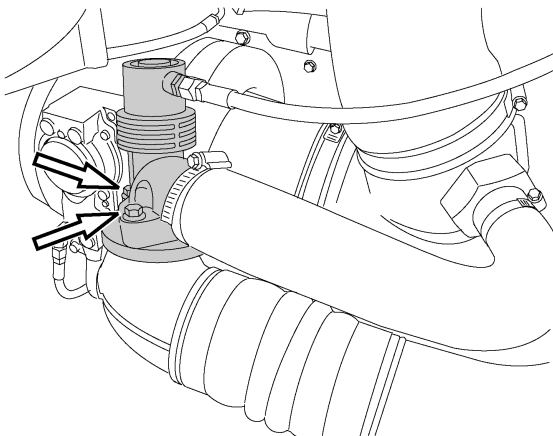
- 3**
Loosen the clamp on the hose that connects to the fresh air pipe at the Discharge Recirculation Valve (DRV).

- 4**
Remove the air supply line to the DRV.



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- 5**
Remove the screws used to secure the DRV to the charge air pipe.



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- 6**
Lift the DRV up to free the valve from the charge air pipe and then, pull the valve free from the hose that connects to the fresh air pipe.

- 7**
Clean the mounting surface for the DRV on the charge air pipe.

Installation

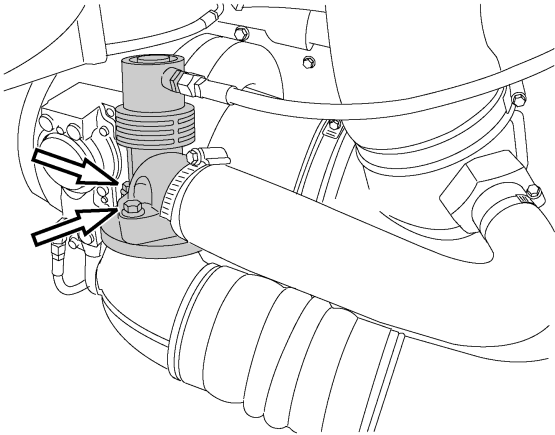
1
Install a new O-ring into the groove located on the bottom of the DRV.

2
Position the DRV (with properly positioned new O-ring) onto the charge air pipe mounting pad and start the mounting screws. Slide the hose that connects to the fresh air pipe onto the neck of the DRV.

Note: Make sure that the O-ring stays in place.

3
Secure the DRV mounting screws. Torque-tighten the bolts to 26 ± 2 Nm (19 ± 2 ft-lb).

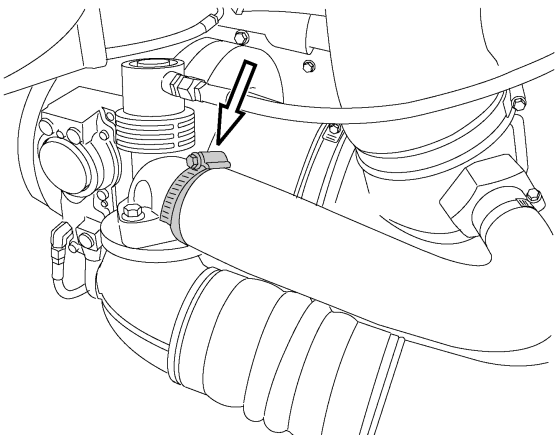
26 ± 2 Nm (19 ± 2 ft-lb)



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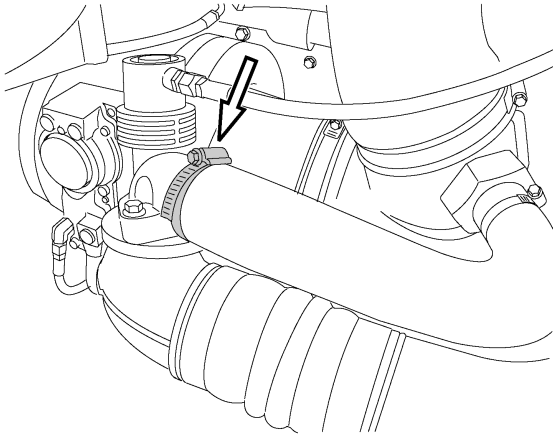
4
Secure the hose that connects the fresh air pipe onto the neck of the DRV using a hose clamp. Torque-tighten the clamp to 5.5 ± 0.5 Nm (49 ± 4 in-lb).

5.5 ± 0.5 Nm (49 ± 4 in-lb)



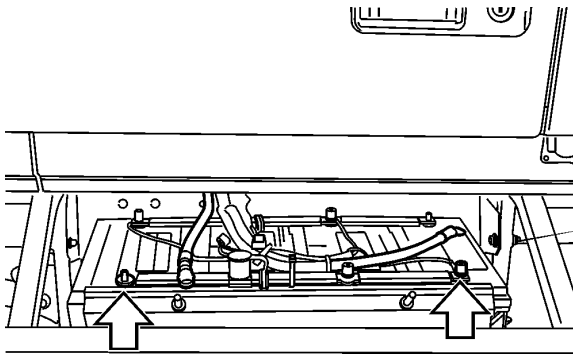
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- 5**
Secure the air supply line to the fitting on the DRV.
Torque-tighten the air supply line fitting to specifications.



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- 6**
Install all previously removed cables to the ground (negative) battery terminals.



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- 7**
Start the engine, check for leaks and proper operation.
After shutdown, replenish fluids as necessary.