VOLVO
Volvo Trucks North America
Greensboro, NC USA

Service Bulletin Trucks

This Service Bulletin replaces bulletin 258–50, “Injector, Aftertreatment, Clean” dated 2.2008.

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Aftertreatment Injector, Clean
D11F, D13F, D16F

Injector, Aftertreatment, Clean

This information covers cleaning of the aftertreatment fuel injector (AFI) used for the aftertreatment system on Volvo D11F, D13F, and D16F engines. Do not drain the coolant or remove the coolant lines to the AFI to clean the injector.

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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

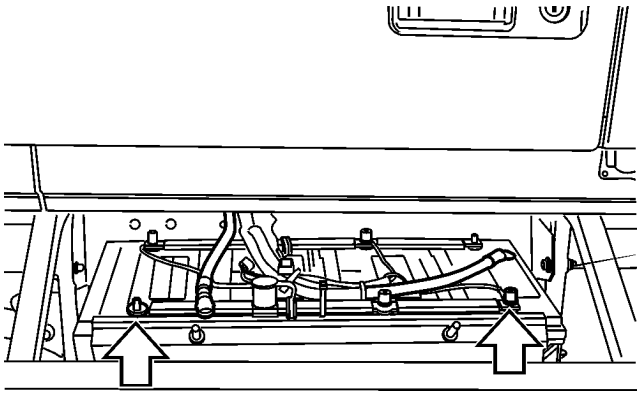
2589-11-02-02
Injector, Aftertreatment, Clean

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.

Cleaning

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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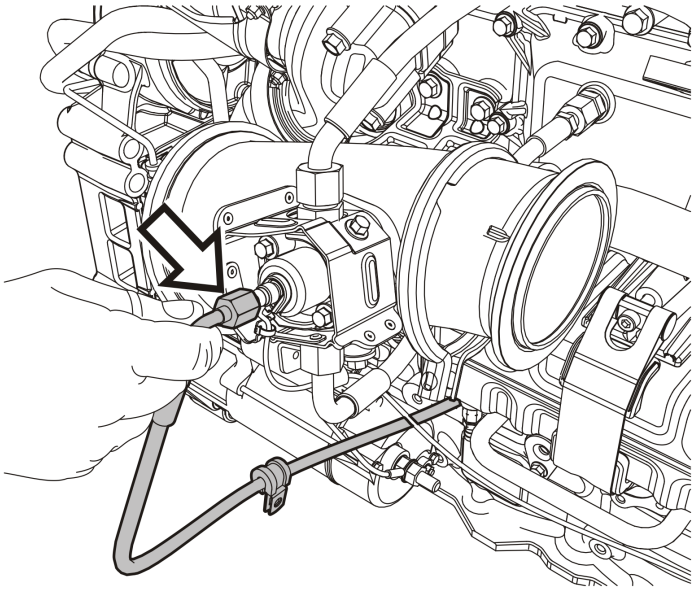
3
If necessary, remove inner splash guard as an assembly.

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

4
Remove P-clamp bolts securing the AFI harness and fuel line.



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5
Disconnect the aftertreatment injector fuel supply line. Collect any residual fuel that might be in the fuel line in a suitable container.

CAUTION

Do not kink the fuel and coolant lines. Kinking the lines may result in leakage.

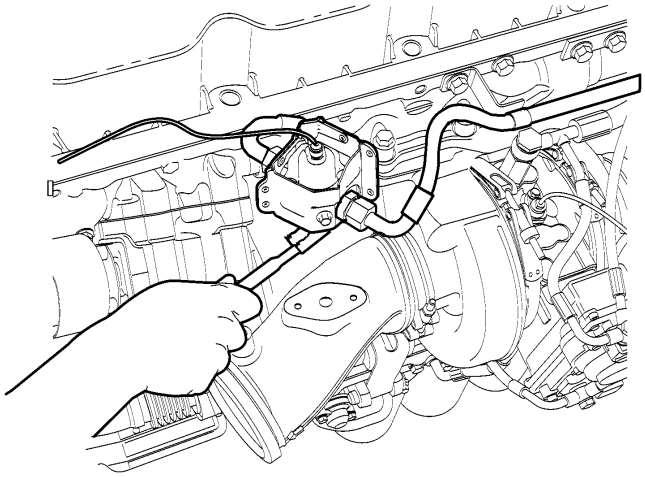
Note: The coolant lines and coolant do not need to be removed for AFI cleaning.

6
Remove and discard the aftertreatment fuel injector mounting bolts and spacers. Remove the injector from the diffuser pipe (which attaches to the turbocharger outlet).

7
Cover the hole in the diffuser pipe to prevent dirt and cleaning solution from entering the exhaust system.

8
Remove and discard the high-temperature gasket and steel plate gasket from the bottom of the injector.

9
Turn the AFI body to allow the injector tip to be sprayed with carburetor cleaning solution. Brush the injector tip with a stiff bristled nylon “tooth” brush. Repeat two or three times.



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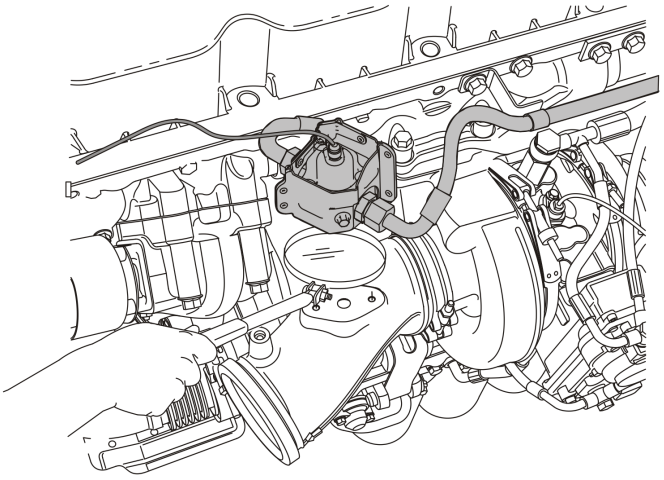
CAUTION

Only high quality carburetor cleaner should be used to clean the injector. Other cleaners, such as brake cleaner products, do not work and may contain chlorine, which could damage the catalyst if they enter the exhaust system.

CAUTION

Only use a nylon brush to clean the injector tip. Do not use a brass or steel brush. Damage to the injector tip may result.



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10
Inspect the injector tip. Use a mirror if a clear view of the tip is not possible.

11
Install a new high-temperature gasket and steel plate gasket onto the bottom of the aftertreatment fuel injector.

12
Apply high-temperature nickel-graphite anti-seize compound to the new injector mounting bolt threads and insert the bolts into the spacers. Position the injector onto the diffuser pipe (which attaches to the turbocharger outlet) and hand start the bolts with spacers.

13
Secure the injector mounting bolts. Tighten the bolts to 14 ± 0.5 Nm (125 ± 4.5 in-lb).

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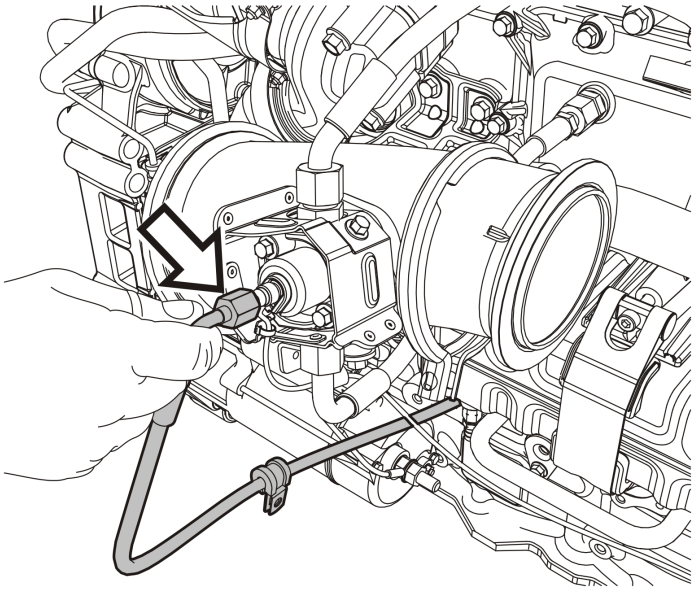
14 ± 0.5 Nm (125 ± 4.5 in-lb)



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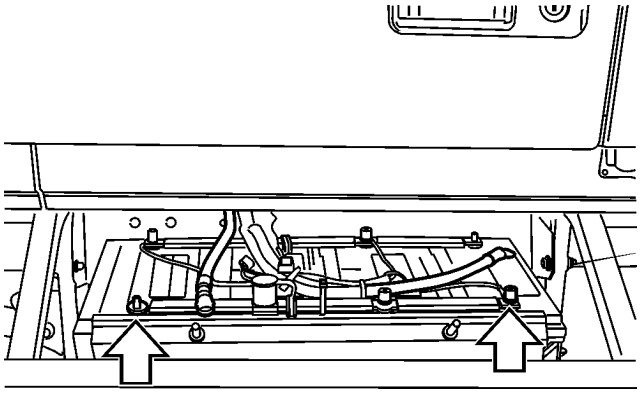
14
Connect the aftertreatment injector fuel supply line. Tighten the fuel line fitting to 15 ± 0.5 Nm (135 ± 5 in-lb).

15 ± 0.5 Nm (135 ± 5 in-lb)

15
Install P-clamp bolts securing the AFI harness and fuel line.

16
If removed, install the inner splash guard assembly.



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17
Install all previously removed cables to the ground (negative) battery terminals.

18
With VCADS/Tech Tool, reset AFI adaptive factor, clear codes and perform a complete service regeneration.