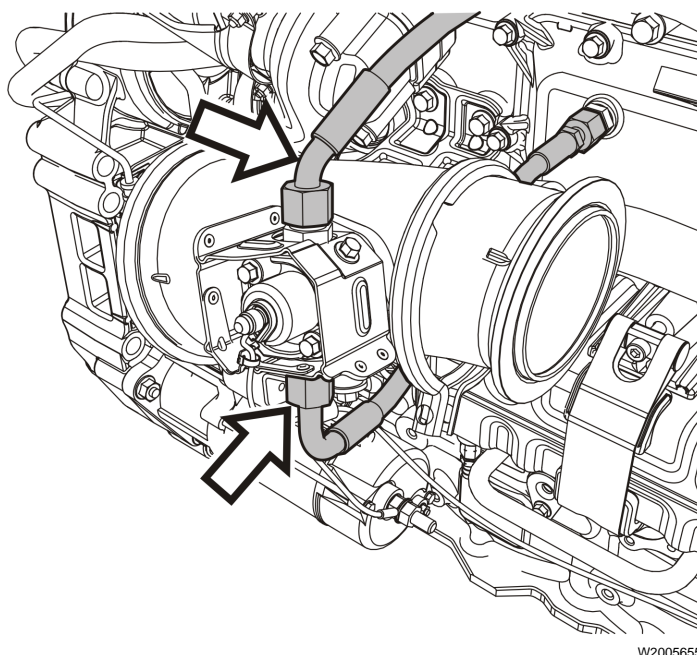


This Service Bulletin replaces publications PV776-20178310, PV776-20178309, and PV776-20178171.

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12.2007	<b>258</b>	<b>50</b>	1(10)

## Aftertreatment Injector Clean D11F, D13F, D16F

### Aftertreatment Injector, Clean



This information covers cleaning of the aftertreatment fuel injector used for the DPF system on a Volvo D11F, D13F, and D16F engines.

### Contents

- “Special Tools” page 2
- “Injector, Aftertreatment, Clean” 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

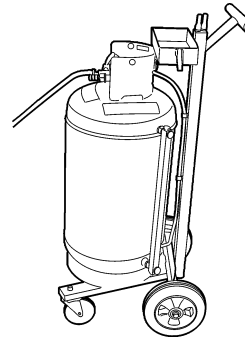
For special tools ordering instructions, refer to Tools Information, group 08.



W0001795

**9996049**

Coolant Drain Hose



W2004191

**DBT2V700**

Coolant Extractor

# 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.

*Special tools: 9996049, DBT2V700*

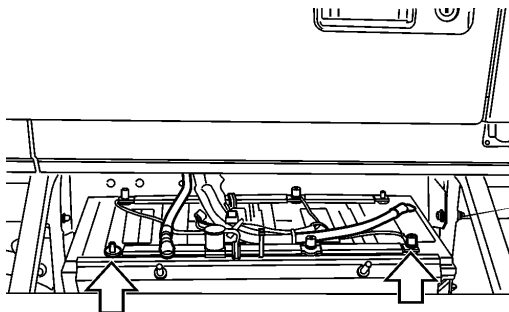
## Removal

**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**

Connect coolant extraction tool DBT2V700 to the drain fitting at the bottom of the radiator. Drain the coolant.

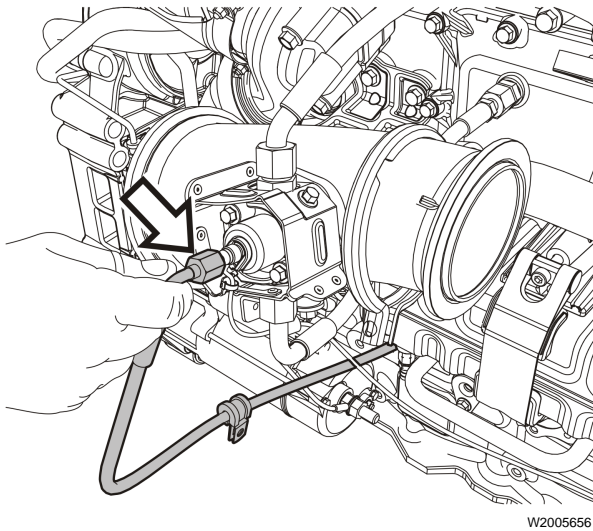
**Note:** An alternative method is to use drain hose 9996049 to drain coolant into an approved container.

DBT2V700, 9996049

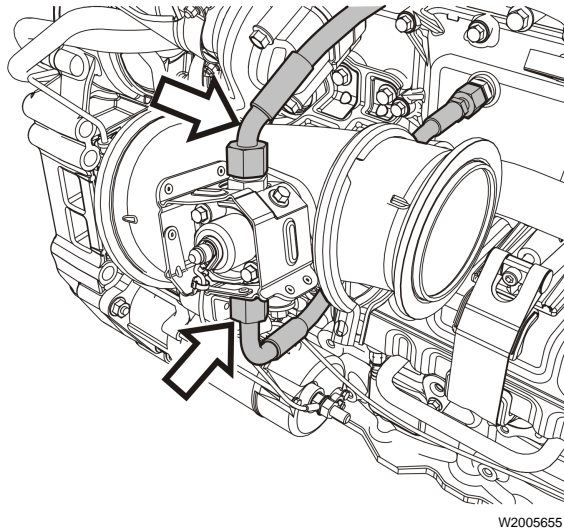
**4**

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.

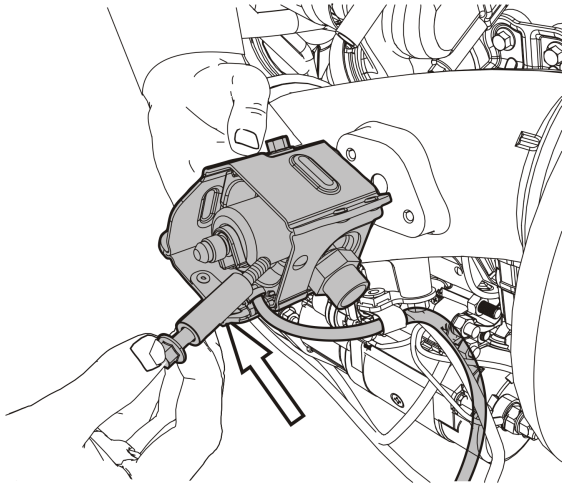


- 5**  
Disconnect the aftertreatment injector fuel supply line. Collect any residual fuel that might be in the fuel line in a suitable container.



- 6**  
Disconnect both the coolant inlet and outlet lines from the aftertreatment fuel injector fittings.

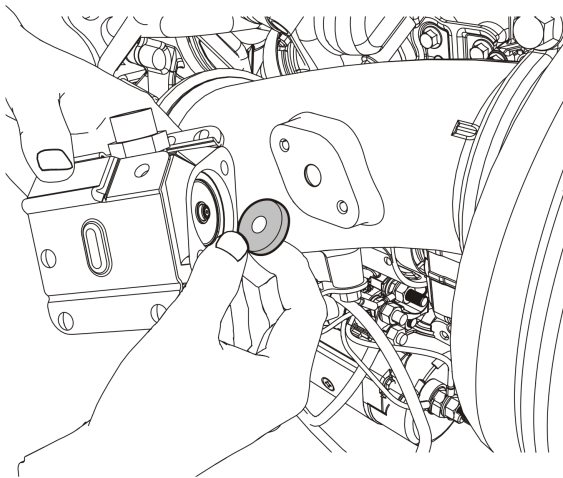
- 7**  
Disconnect the aftertreatment fuel injector wiring harness connector. Remove all the clips and tie straps to allow the harness to hang free.



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**8**

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



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**9**

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

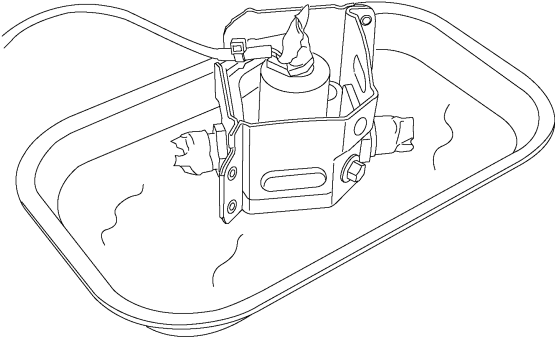
**10**

Plug the coolant ports to prevent any cleaning solution from damaging the O-rings internal to the injector.

**Note:** Solution is not compatible with the O-rings.

**11**

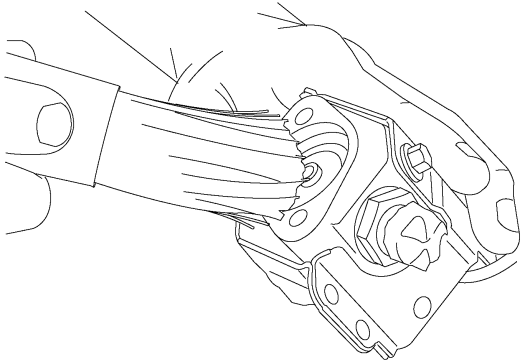
Spray the aftertreatment fuel injector tip with carburetor cleaning solution and then soak the injector tip for 5–10 minutes by filling the cavity or soaking it in a pan of carburetor cleaning solution.



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**12**

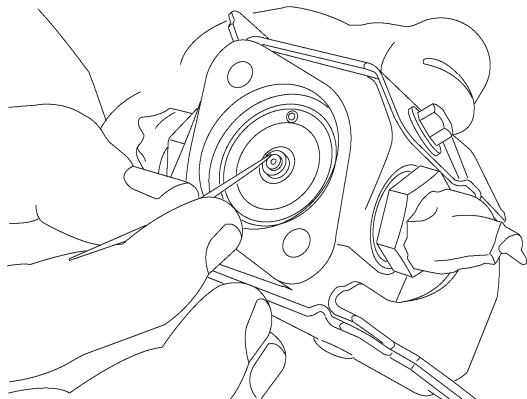
Brush off the carbon deposits by using a stiff nylon brush.



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**13**

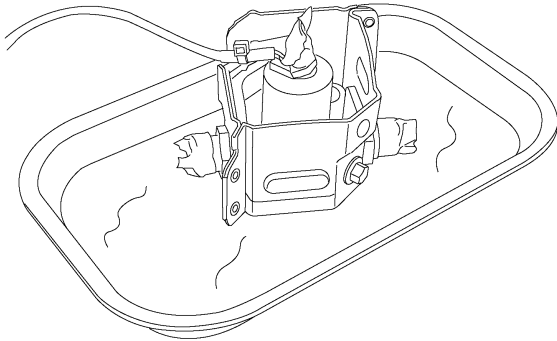
Use a plastic dental pick to clean the tip as shown.



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**14**

Spray the tip of the injector with fresh carburetor cleaning solution and soak the injector tip in fresh solution for an additional 5–10 minutes.



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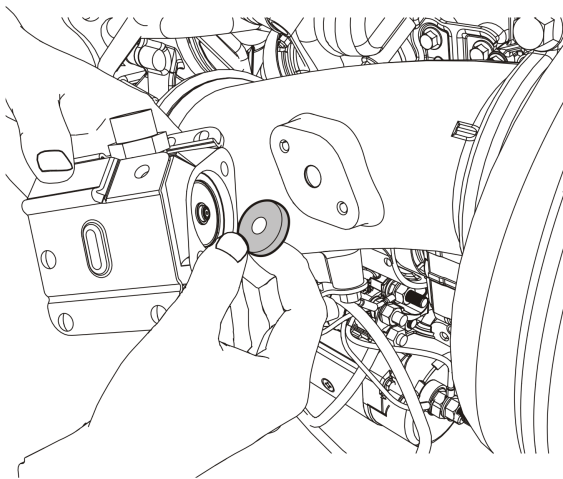
**15**

Repeat the previous step if necessary.

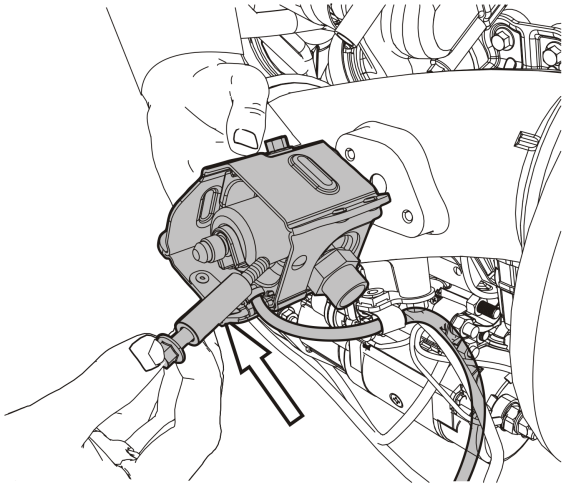
## Installation

**1**

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



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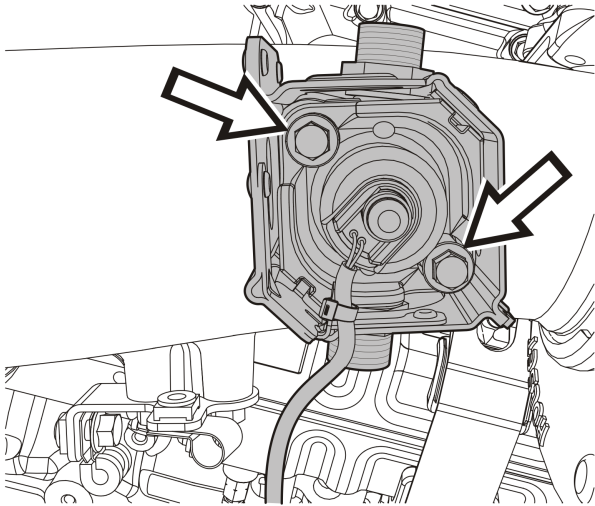
W2005766

**2**

Apply high-temperature nickel-graphite anti-seize compound to the 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.

**3**

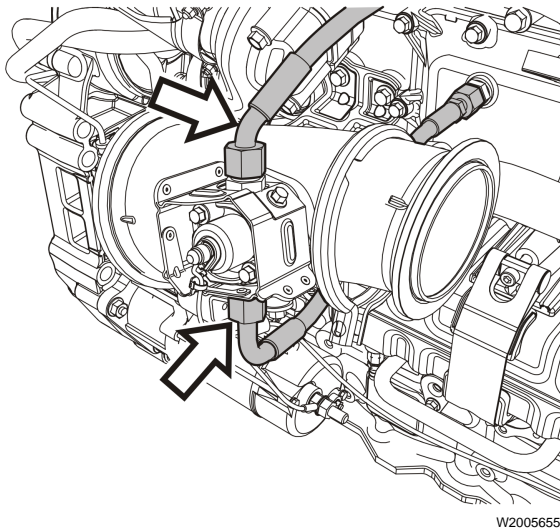
Secure the injector mounting bolts. Torque-tighten the bolts to specification.



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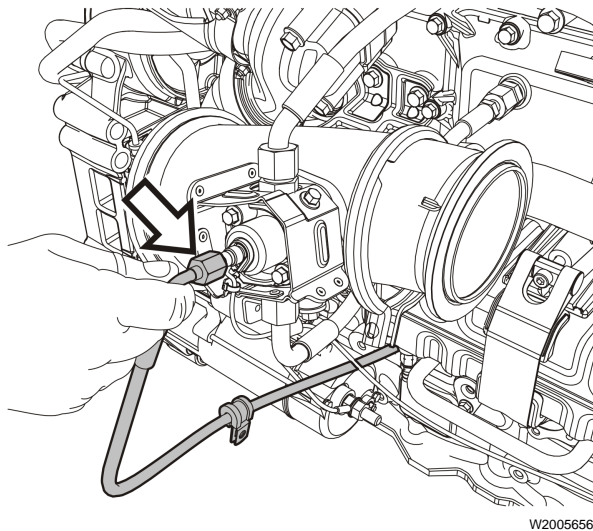
**4**

Reconnect the aftertreatment fuel injector wiring harness connector. Secure the injector wiring harness with clips and tie straps.



**5**

Reconnect both coolant lines to the aftertreatment fuel injector fittings and tighten to secure.



**6**

Connect the aftertreatment injector fuel supply line and tighten to secure. Install the clamp bracket and tighten the screw.

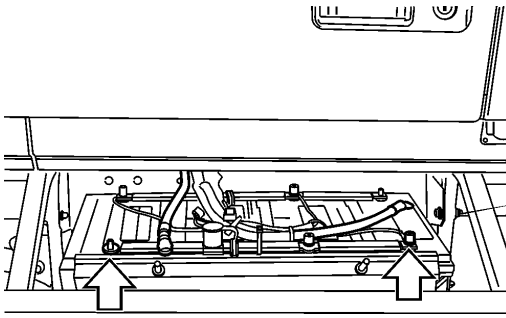
**7**

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

DBT2V700

**8**

Install the inner splash guard assembly.



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**9**

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

**10**

Perform Aftertreatment Injector Adaptive Factor Reset with VCADS/Tech Tool.

**11**

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