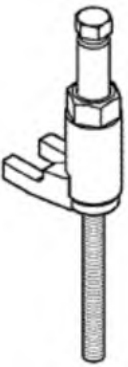


Fuel Injectors RH

Special Tool(s) / General Equipment

	310-230 Remover, Fuel Injector TKIT-2010FT-F TKIT-2010FT-ROW
	310-230-01 Adapter, Fuel Injector Remover

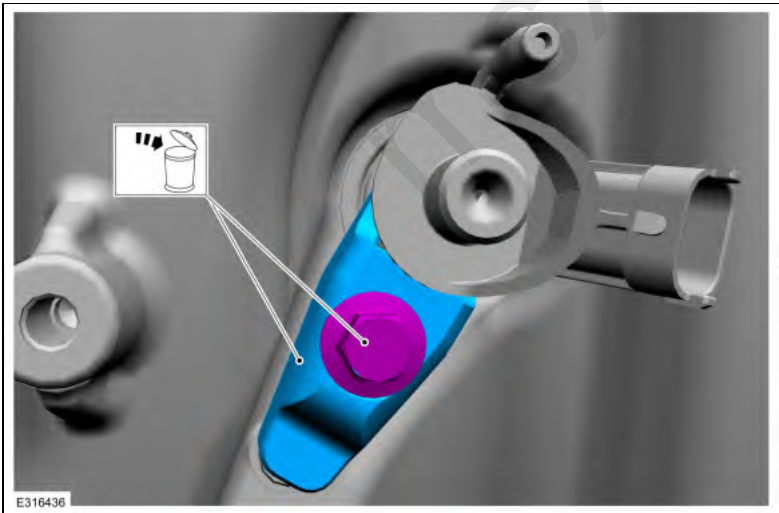
Removal

NOTICE: Fuel injection equipment is manufactured to very precise tolerances and fine clearances. To prevent fuel system damage, it is essential that absolute cleanliness is observed when working with these components.

NOTICE: Use care when handling the fuel injector. The spray nozzle is fragile and susceptible to physical damage if mishandled. Any damage to the fuel injector spray nozzle may cause drivability concerns or catastrophic failure of the engine.

NOTE: The PCM is programmed with an IQA code for each fuel injector. Note the fuel injector cylinder location for installation.

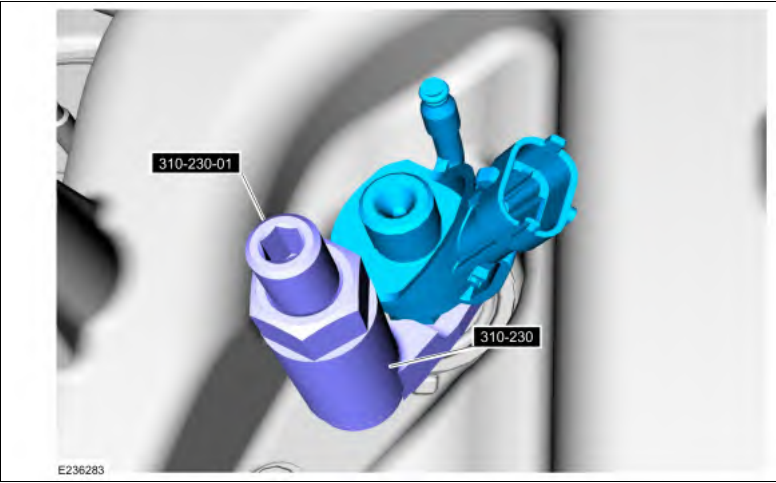
1. Remove the fuel injector supply tubes for the fuel injectors that are being removed.
Refer to: Fuel Injector Supply Tube RH (303-04B Fuel Charging and Controls - 6.7L Power Stroke Diesel, Removal and Installation).
2.
 1. Remove and discard the fuel injector bolts.
 2. Remove and discard the fuel injector hold-downs.



3. **NOTE:** The PCM is programmed with an IQA code for each fuel injector. Note the fuel injector cylinder location for installation.

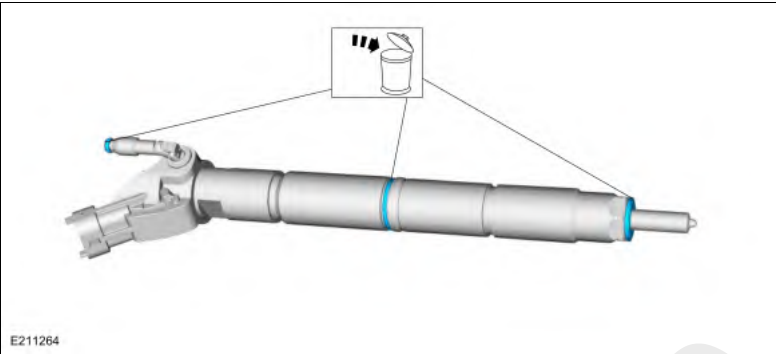
Install the Injector Removal Tool.

1. **NOTE:** If needed for clearance, the shorter 310-230-01 Adapter, Fuel Injector Remover push bolt can be used.
Install the Injector Removal Tool to the fuel injector and fully hand-tighten the Injector Removal Tool mounting bolt. 310-230 Remover, Fuel Injector and the 310-230-01 Adapter, Fuel Injector Remover.
Use Special Service Tool: 310-230 Remover, Fuel Injector. , 310-230-01 Adapter, Fuel Injector Remover.
2. Install the push bolt and tighten to remove the fuel injector.
3. Remove the Injector Removal Tool mounting bolt and the lower portion of the Injector Removal Tool.



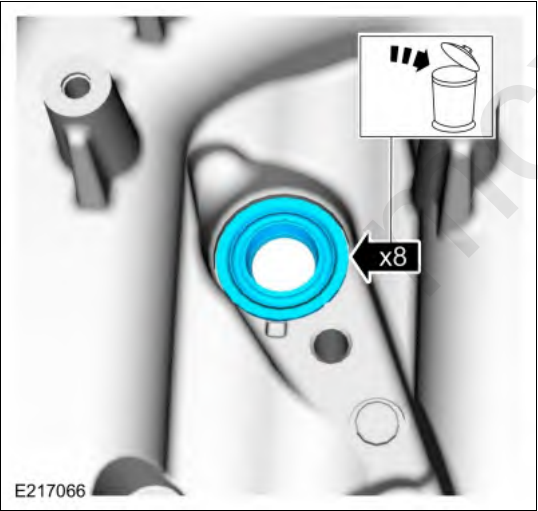
4. **NOTE:** If any of the fuel injector sealing washers remained in the fuel injector cylinder head bore, be sure to remove and discard the fuel injector sealing washers.

Remove and discard the O-rings and fuel injector sealing washers.



5. **NOTE:** Use the notch in the valve cover to aid in removing the fuel injector-to-valve cover seal.

Remove and discard the fuel injector-to-valve cover seals.

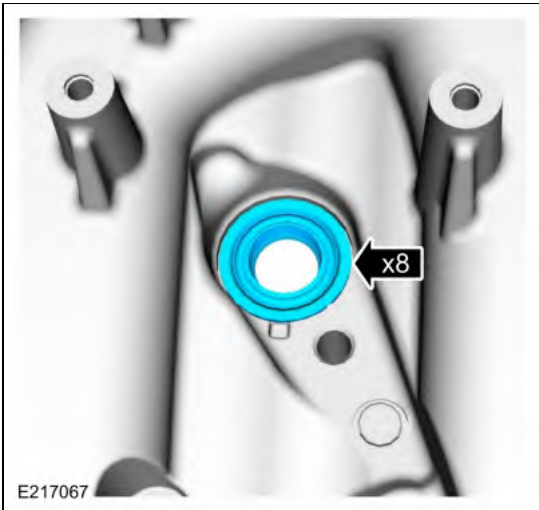


Installation

NOTE: If a fuel injector is being reused, make sure to install the fuel injector in the original location.

1. **NOTE:** Verify that the fuel injector-to-valve cover seal is squarely seated in the valve cover.

Using a 22 mm (0.866 in) socket or equivalent, install the new fuel injector-to-valve cover seals.

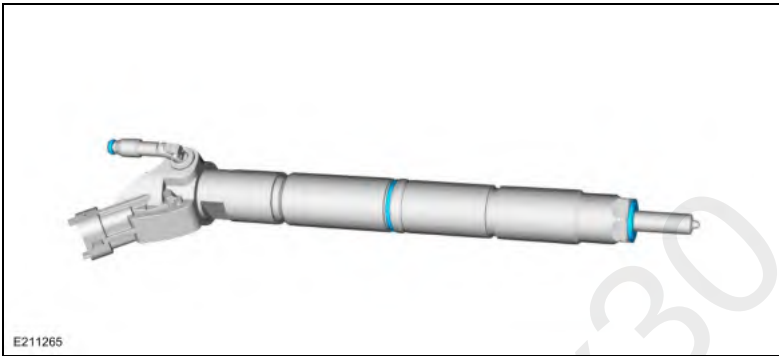


2. **NOTE:** Do not apply engine oil to the fuel injectors.

NOTE: Only one fuel injector shown.

NOTE: If the fuel injector is being reused, make sure to install it in the original location.

Install a new fuel injector sealing washer, O-ring seal and fuel injector return fuel O-ring on the fuel injectors.



3. **NOTICE:** The PCM is programmed with an IQA code for each fuel injector. If a new fuel injector is installed record the new fuel injector IQA code and cylinder location.

NOTICE: Failure to tighten the fuel injector correctly can lead to engine failure.

NOTE: If a fuel injector is being reused, make sure to install it in the original location.

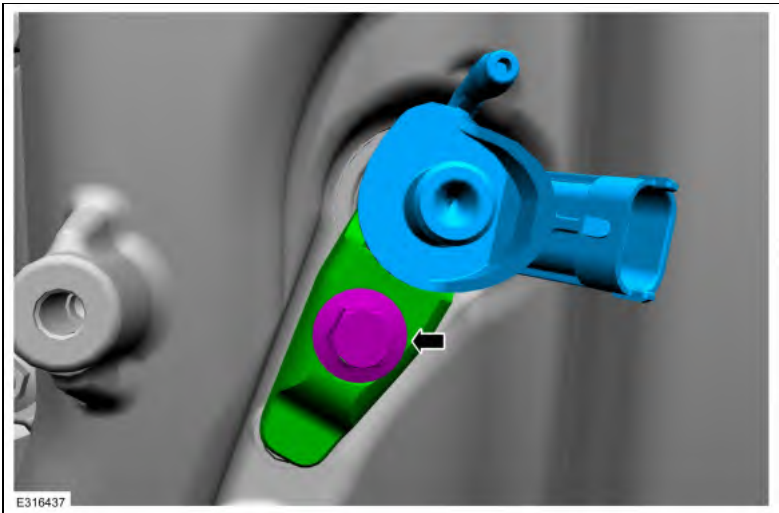
NOTE: Only one fuel injector shown.

Install the fuel injector, the new fuel injector hold-down clamp and a new fuel injector hold-down clamp bolt.

Torque:

Stage 1: Tighten to: : 22 lb.ft (30 Nm)

Stage 2: Tighten and additional: : 90°

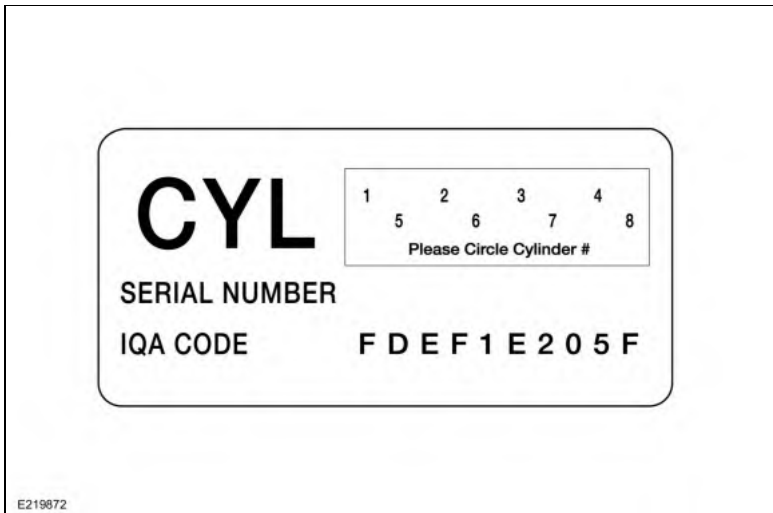


4. Install the fuel injector supply tubes that were removed.

Refer to: Fuel Injector Supply Tube RH (303-04B Fuel Charging and Controls - 6.7L Power Stroke Diesel, Removal and Installation).

5. **NOTE:** A fuel injector replacement label must be installed for each fuel injector that was replaced.

Install the fuel injector replacement label to the top of the oil separator housing and circle the cylinder number for the fuel injector that has been replaced.



6. **NOTE:** The PCM must be programmed with the proper fuel injector IQA codes.

Using the scan tool, follow the on-screen instructions and program the PCM with the appropriate fuel injector IQA code for any fuel injector that was replaced. Using the scan tool, select module Powertrain, Service Functions and IQA, then follow the on-screen instructions displayed on the scan tool. Enter the new IQA code for the replacement injector(s).

7. **NOTE:** This step is required only when a new fuel injector is being installed.

After a new fuel injector is installed, using the scan tool, follow the on-screen instructions and perform the following:

- Min. Fuel Mass Adaptation - All Cylinders.
- Clear the continuous PCM DTC's and reset the emissions monitors information in the PCM. Refer to Section 2 of the PC/ED.

8.

- **NOTICE:** The PCM Reset And Clear The Specified Functions, Reset Minimum Fuel Mass Adaptations For Cylinder X and Fuel Injector #X Adaptive Reset must be performed for any of the replaced fuel injectors.

Using the scan tool, follow the on-screen instructions and Reset And Clear The Specified Function Reset Minimum Fuel Mass Adaptations For Cylinder X and Fuel Injector #X Adaptive Reset on the scan tool for any of the fuel injectors that were replaced.

- **NOTICE:** The PCM must be programmed with the proper fuel injector IQA codes.

Using the scan tool, follow the on-screen instructions and program the PCM with the appropriate fuel injector IQA code for any fuel injector that was replaced.