

## Low-Pressure Fuel System Bleeding (19.50.07)

### Special Service Tools



Adaptor fuel rail pressure check  
310-116 (LRT-19-006A)



**WARNING:** Wait at least 30 seconds after the engine stops before commencing any repair to the high-pressure fuel injection system. Failure to follow this instruction may result in personal injury.



**WARNING:** Before any work is carried out on the fuel system, ground the vehicle to earth and maintain the ground connection until the work is complete.



**WARNING:** Do not smoke or carry lighted tobacco or open flame of any type when working on or near any fuel related components. Highly flammable vapors are always present and may ignite. Failure to follow these instructions may result in personal injury.



**WARNING:** After carrying out repairs, the fuel system must be checked visually for leaks. Failure to follow this instruction may result in personal injury.



**WARNING:** If taken internally, do not induce vomiting, seek immediate medical attention. Failure to follow these instructions may result in personal injury.



**WARNING:** If fuel contacts the eyes, flush the eyes with cold water or eyewash solution and seek immediate medical attention.



**WARNING:** Wash hands thoroughly after fuel handling, as prolonged contact may cause irritation. Should irritation develop, seek medical attention.



**WARNING:** This procedure involves fuel handling. Be prepared for fuel spillage at all times and always observe fuel handling precautions. Failure to follow these instructions may result in personal injury.



**CAUTION:** Diesel fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is therefore essential that absolute cleanliness is observed when working with these components. Always install blanking plugs to any open orifices or lines. Failure to follow this instruction may result in foreign matter ingress to

the fuel injection system.



**CAUTION:** This procedure must be carried out before the engine is attempted to be started, following removal or replacement of any fuel system component involving fuel line intrusion. Failure to follow this instruction will result in damage to the fuel injection pump.

1. This procedure is necessary if any of the following fuel system components are removed, disconnected or replaced: Fuel tank, fuel lines, fuel filter element, fuel coolers, fuel injection pump or fuel rail pressure sensor.

2. Remove the engine cover.

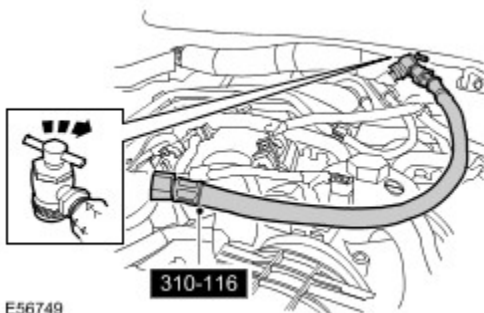
[Engine Cover - 2.7L Diesel \(12.30.50\)](#)

3. Install the special tool to the fuel rail Schraeder valve.

- Remove the fuel rail Schraeder valve cap.

4. Position a container to collect spillage.

- Open the valve on the special tool.



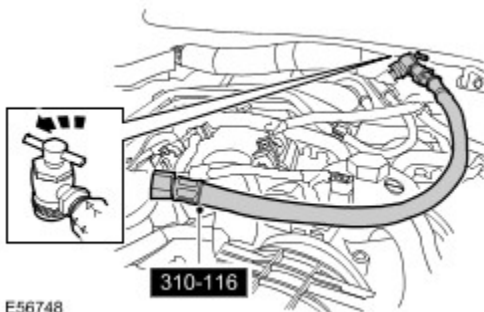
5. Turn the ignition switch to the ON position for 25 seconds. The fuel pump in the fuel tank will be audible.

6. Repeat the above procedure until clean, air free fuel is seen escaping from the special tool.

- While the pump is still running, close the valve on the special tool to prevent air entering the fuel system.

7. Remove the special tool from the Schraeder valve.

- Install the Schraeder valve protective cap.



8. Remove the container.

9. **NOTE:**

The engine must be allowed to idle for two minutes to allow air in the fuel injection supply manifolds and fuel injectors to purge.

Start the engine and allow to idle.

10. Install the engine cover.

[Engine Cover - 2.7L Diesel \(12.30.50\)](#)