

Diesel Filter Water Drain-Off



WARNING: The spilling of fuel is unavoidable during this operation. Ensure that all necessary precautions are taken to prevent fire and explosion.



WARNING: Do not carry or operate cellular phones 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: 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: 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.



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.

1. Drain the fuel filter element.

- Attach a suitable drain tube to the fuel filter water drain off port.
- Loosen the water drain off port one complete turn and allow the fuel to drain into a container.
- Tighten the water drain off port.
- Remove the drain tube.
- Remove the container.



2. Bleed the fuel system.

[Low-Pressure Fuel System Bleeding \(19.50.07\)](#)

Fuel Tank Draining (19.55.02)

1. Remove battery cover.
2. Disconnect both leads from battery, earth lead first.



WARNING: Fuel vapour is highly flammable and in contained spaces is also explosive and toxic. Always have a fire extinguisher containing FOAM, CO2, GAS OR POWDER close at hand when handling or draining fuel.

3. Using a fuel recovery appliance, drain the fuel from the tank into a sealed container. Follow the manufacturers instructions for the connection and safe use of the appliance.
4. Remove filler cap and insert hose into filler neck.
5. Connect bowser earth line. Drain fuel.
6. Connect battery leads.
7. Fit battery cover.

Low-Pressure Fuel System Bleeding (19.50.07)

Special Service Tools



Hand pressure pump
310-110



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



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



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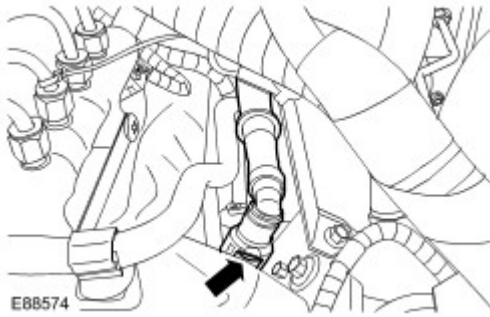


CAUTION: Make sure the workshop area in which the vehicle is being worked on is as clean and as dust free as possible. Foreign matter from work on clutches, brakes or from machining or welding operations can contaminate the fuel system and may result in later malfunction.

1. Disconnect the fuel injection pump supply line.

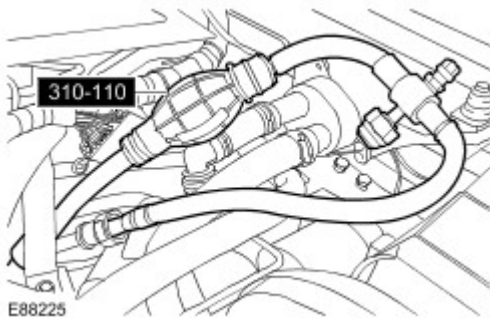
[Quick Release Coupling](#)

- Position an absorbent cloth to collect any fluid spillage.

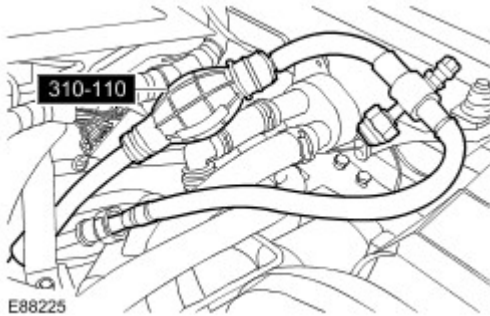


2. Install the special tool.

- Operate the hand pressure pump special tool until fuel starts to flow through the clear plastic pipe and the special tool becomes firm.



3. Remove the special tool.



4. Connect the fuel injection pump supply line.

[Quick Release Coupling](#)

- Remove the absorbent cloth.

Quick Release Coupling



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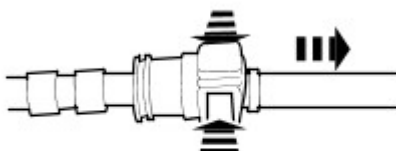


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1. Disconnect the fuel line quick release coupling.
 - Push the fuel line quick release buttons and pull the 2 halves of the fuel line to disconnect.



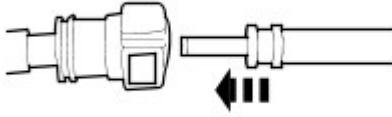
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- 2.



CAUTION: Make sure the fuel line quick release coupling clicks into place when connecting the fuel line. To make sure that the quick release coupling is fully seated pull on the 2 halves of the fuel line.

Connect the fuel line quick release coupling.



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