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2014.0 RANGE ROVER SPORT (LW), 310-01A

FUEL TANK AND LINES - TDV6 3.0L DIESEL

# FUEL FILTER ELEMENT (G1509639)

REMOVAL AND INSTALLATION

## REMOVAL

### WARNINGS:

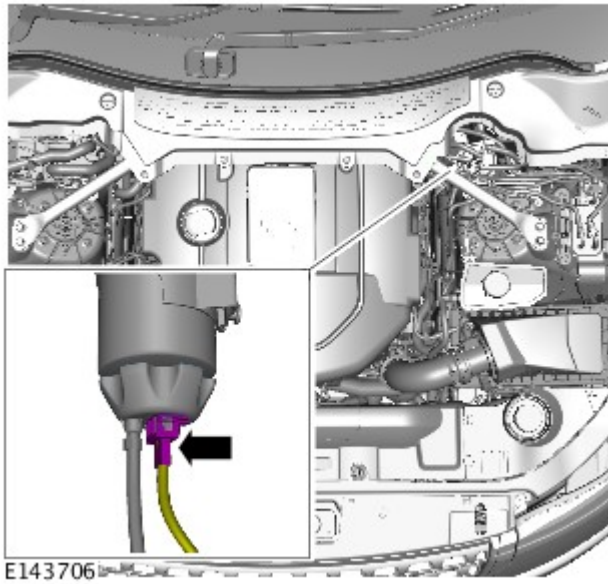
- Diesel fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is therefore essential that absolute cleanliness is observed when working with these components. Always install new blanking plugs to any open orifices or lines. Failure to follow this instruction may result in foreign matter ingress to the fuel injection system.
- The spilling of fuel is unavoidable during this operation. Make sure that all necessary precautions are taken to prevent fire and explosion.
- 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.
- 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.
- If fuel contacts the eyes, flush the eyes with cold water or eyewash solution and seek immediate medical attention.
- Wash hands thoroughly after fuel handling, as prolonged contact may cause irritation. Should irritation develop, seek medical attention.

### NOTE:

Removal steps in this procedure may contain installation details.

1. Refer to: [Diesel Fuel System Health and Safety Precautions](#) (100-00 General Information, Description and Operation).
2. Disconnect the battery ground cable.  
Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

3.



4.



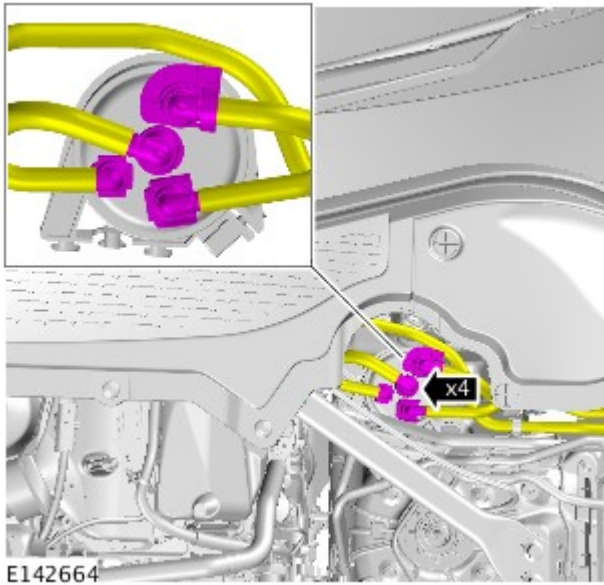
5.

**WARNING:**

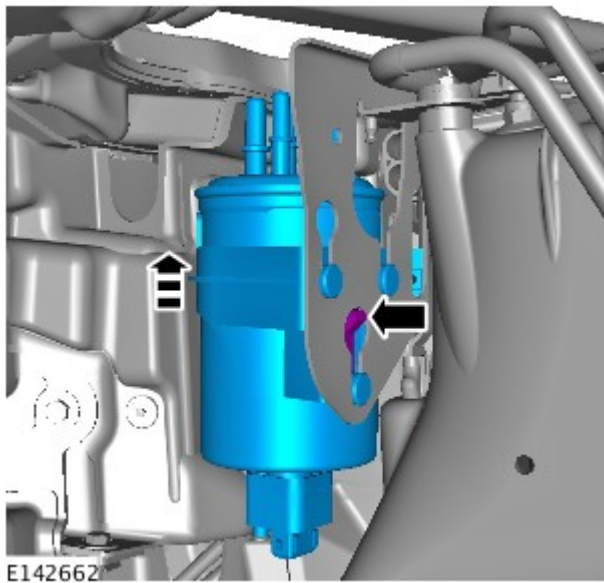
Be prepared to collect escaping fuel.

**CAUTIONS:**

- Note the position of the fuel pipes before disconnecting.
- Before disconnecting or removing components, ensure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.



6.



7.

**CAUTION:**

Note the fitted position of the component prior to removal.



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**INSTALLATION**

1.

**CAUTION:**

Make sure that the fuel filter is correctly aligned. Make sure the fuel pipes are not twisted or kinked and are connected in the correct positions. Failure to follow this instruction may result in damage to the vehicle.

To install, reverse the removal procedure.

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2. Refer to: [Low-Pressure Fuel System Bleeding](#) (310-00 Fuel System - General Information, General Procedures).

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FUEL SYSTEM - GENERAL INFORMATION

# LOW-PRESSURE FUEL SYSTEM BLEEDING (G1509631)

GENERAL PROCEDURES

**WARNING:**

Avoid flames, sparks or lighted substances.

**CAUTION:**

This procedure is necessary if any of the following fuel system components are removed, disconnected or replaced:

- Fuel tank
- Low pressure fuel pump
- Low pressure fuel lines
- Fuel filter
- Fuel cooler

1. Before handling any components within the fuel system make sure that the fuel health and safety guidelines are followed. For additional information, refer to: [Petrol and Petrol-Ethanol Fuel Systems Health and Safety Precautions](#) (100-00 General Information, Description and Operation) / [Diesel Fuel System Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

2.

**CAUTION:**

Do not start the engine.

Repeat the following procedure 3 times.

1. Set the ignition to the ON position.
2. Wait for 65 seconds.
3. Set the ignition to the OFF position.

3.

**CAUTION:**

Do not crank the engine for more than 20 seconds.

Start the engine and allow to idle for 60 seconds.

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GENERAL INFORMATION

# PETROL AND PETROL-ETHANOL FUEL SYSTEMS HEALTH AND SAFETY PRECAUTIONS (G1226058)

## DESCRIPTION AND OPERATION

**WARNINGS:**

- Fuel may not give adequate warning before toxic or harmful effects arise.
- Exposure to fuel can be harmful and can cause severe health damage or death.
- Extreme care must be exercised when handling hot fluids. Always wash off spilled fluids from affected areas of skin immediately.
- Highly flammable mixtures are always present and may ignite when working on fuel systems. Do not allow naked flames, sparks or lighted substances to come near fuel related components.
- Fuel must not be used as a cleaning agent.
- Keep fuel containers tightly closed, out of direct sunlight and in a cool area. Keep away from heat sources, ignition sources and oxidizing agents.
- SKIN CONTACT: Excessive or prolonged skin contact with diesel fuel may cause serious skin disorders including skin cancer.
- SKIN CONTACT: Fuel is mildly irritating to the skin and may cause dermatitis due to defatting effect. Remove contaminated clothing. Wash affected areas of skin with soap and water. Seek medical attention for any persistent skin irritation or abnormality. Wash contaminated clothing before reuse.
- EYE CONTACT: Fuel is mildly irritating to the eyes. Flush with plenty of running water, blinking as often as possible. Do not force the eyelid open. Seek medical attention for any persistent eye irritation or abnormality.
- SWALLOWED: Fuel is moderately toxic and tends to foam on vomiting. If drawn into the lungs, inflammation may develop. Do not induce vomiting. If spontaneous vomiting occurs place the victim in a forward position to reduce the risk of fuel being drawn into the lungs. Give nothing by mouth. If breathing but unconscious, place in the recovery position. If breathing has stopped, apply artificial respiration. Seek immediate medical attention.
- INHALED: Fuel is toxic to the respiratory and other body systems. Exposure may result in various symptoms including drowsiness, unconsciousness or severe health damage. Move a victim to fresh air. Keep a victim warm and at rest. If unconscious, place in the recovery position. If not breathing, apply artificial respiration. Give cardiac massage if necessary. Seek immediate medical attention.

**CAUTIONS:**

- Fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is essential that absolute cleanliness is observed when working with these components.
- Make sure that the workshop area in which the vehicle is being worked on is as clean and as dust free as possible.

Note: Refer to this document before carrying out any work on the fuel system.

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2014.0 RANGE ROVER SPORT (LW), 100-00

GENERAL INFORMATION

# DIESEL FUEL SYSTEM HEALTH AND SAFETY PRECAUTIONS (G548997)

## DESCRIPTION AND OPERATION

**WARNINGS:**

- Fuel may not give adequate warning before toxic or harmful effects arise.
- Exposure to fuel can be harmful and can cause severe health damage or death.
- Provide adequate ventilation when working on fuel systems.
- Extreme care must be exercised when handling hot fluids. Always wash off spilled fluids from affected areas of skin immediately.
- Fuel must not be used as a cleaning agent.
- Keep fuel containers tightly closed, out of direct sunlight and in a cool area. Keep away from heat sources, ignition sources and oxidizing agents.
- SKIN CONTACT: Fuel is mildly irritating to the skin and may cause dermatitis due to defatting effect. Remove contaminated clothing. Wash affected areas of skin with soap and water. Seek medical attention for any persistent skin irritation or abnormality. Wash contaminated clothing before reuse.
- SKIN CONTACT: Excessive or prolonged skin contact with diesel fuel may cause serious skin disorders including skin cancer.
- EYE CONTACT: Fuel is mildly irritating to the eyes. Flush with plenty of running water, blinking as often as possible. Do not force the eyelid open. Seek medical attention for any persistent eye irritation or abnormality.
- SWALLOWED: Fuel is moderately toxic and tends to foam on vomiting. If drawn into the lungs, inflammation may develop. Do not induce vomiting. If spontaneous vomiting occurs place the victim in a forward position to reduce the risk of fuel being drawn into the lungs. Give nothing by mouth. If breathing but unconscious, place in the recovery position. If breathing has stopped, apply artificial respiration. Seek immediate medical attention.
- INHALED: Fuel is toxic to the respiratory and other body systems. Exposure may result in various symptoms including drowsiness, unconsciousness or severe health damage. Move a victim to fresh air. Keep a victim warm and at rest. If unconscious, place in the recovery position. If not breathing, apply artificial respiration. Give cardiac massage if necessary. Seek immediate medical attention.

**CAUTIONS:**

- Fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is essential that absolute cleanliness is observed when working with these components.
- Make sure that the workshop area in which the vehicle is being worked on is as clean and as dust free as possible.
- Make sure that non-plated tools are used.
- Tools must be cleaned using a new brush and fresh suitable evaporative cleaning agent.
- Make sure to use a steel topped workbench covered with clean, lint-free, non-flocking material.

- Make sure that all parts removed from the vehicle are placed on the lint-free, non-flocking material.
- Make sure that any protective clothing worn is clean and made from lint-free, non-flocking material.
- Make sure to wear non-powdered latex type gloves.
- Make sure to protect all electrical components and connectors with lint-free non-flocking material before using the suitable evaporative cleaning agent.

**NOTE:**

Soot, discomfort and irritation usually give adequate warning of hazardous fume concentrations.

Note: Refer to this document before carrying out any work on the fuel system.

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