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Power Steering Pressure Test - 2.7L Diesel

Special Service Tools

211-313

E58729

Adapter, power steering pressure test
211-313 (LRT-57-035A)

211-011-02

E58730

Hose, power steering pressure test
211-011-02 (LRT-57-002)

211-011-11

E58731

Hose, power steering pressure test
211-011-11

211-011-01

E58732

Valve block, power steering pressure test
211-011-01 (LRT-57-001)

211-287

E58733

Hose and gauge, power steering pressure test
211-287 (LRT-57-005)

211-325

E58734

Adapter, power steering pressure test
211-325 (LRT-57-042)

1 . Disconnect the battery ground cable.

[Specifications](#)

2 . Remove the engine cover.

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

3 . Siphon the fluid from the power steering reservoir.

- Remove the filler cap.
- Install the filler cap.

4 . Position an absorbent cloth to collect fluid spillage.

5 .



CAUTION: Before disconnecting or removing the components, ensure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

NOTE :

Some fluid spillage is inevitable during this operation.

NOTE :

Care must be taken to avoid contamination of the drive belt.

Disconnect the power steering high-pressure pipe union.

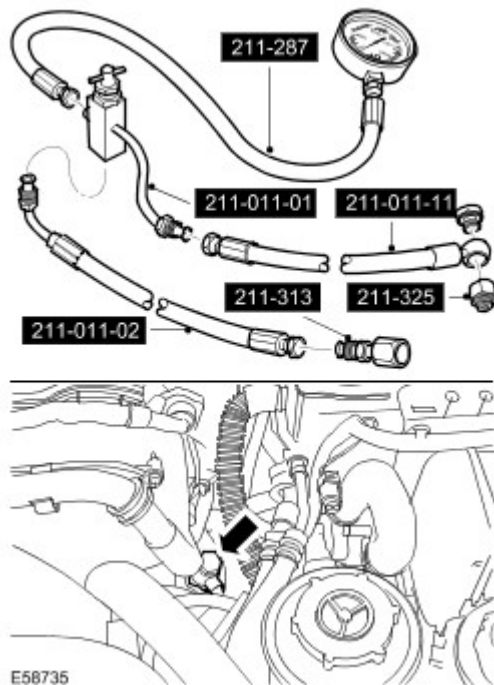
- Remove the bolt.
- Remove and discard the 2 sealing washers.
- Position a container to collect the fluid.

6 . Install the special tools to the power steering high-pressure port.

- Install the O-ring seal.
- Tie the pressure gauge aside under the hood.

7 . Install the special tool to the high-pressure union.

- Install the O-ring seals.
- Connect the special tool line, to the special tool valve block assembly.



8 . Refill the power steering reservoir.

- Remove the filler cap.

9 . Connect the battery ground cable.

10 . **NOTE :**

Ensure the steering components and test equipment are free from leaks.

NOTE :

Maintain the maximum fluid level during the test.

NOTE :

Make sure the steering is in the straight ahead position.

NOTE :

Under no circumstances must the low pressure spigot be removed from the steering pump.

With the test valve open start the engine.

- Start the engine and turn steering fully lock to lock, stop the engine.
- Top-up the power steering fluid reservoir.
- Install the reservoir filler cap.

11 . For correct power steering pressures, refer to the steering specification section.

[Specifications](#)

12 . With the engine at idle, slowly turn the steering wheel and hold on full lock.

- Record the pressure reading.

- 13 . Repeat the above procedure for the other side.
 - Record the pressure reading.
- 14 . With the engine at idle, release the steering wheel. The pressure should be, at or below, the pressure specified.
 - Pressure outside this tolerance, indicates a fault.
- 15 . To determine if the fault is in the steering pump or the steering rack, close the test valve for a maximum of 5 seconds.
- 16 . If the pressures recorded fall outside the given values, replace the power steering pump.
- 17 . If the maximum pump pressure is correct, then suspect the power steering rack.
- 18 . On completion of the test stop the engine, disconnect the battery ground cable and siphon the steering fluid from the reservoir.
 - Remove the filler cap.
 - Install the filler cap.
- 19 . Disassemble the test equipment.
- 20 . Connect the high-pressure line to the power steering pump.
 - Clean the component mating faces.
 - Install the new O-ring seals.
 - Tighten the bolt to 25 Nm (18 lb.ft).
- 21 . Install the engine cover.
[Engine Cover - 2.7L Diesel \(12.30.50\)](#)
- 22 . Connect the battery ground cable.
[Specifications](#)
- 23 . Refill and bleed the power steering.
[Power Steering System Filling and Bleeding](#)