

Component Procedures: Fuel Pressure

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Component Procedures: Fuel Pressure

Technician Safety Information (itype_15)

WARNING: THE FUEL SYSTEM IS UNDER CONSTANT FUEL PRESSURE EVEN WITH THE ENGINE OFF. BEFORE DISCONNECTING FUEL LINE AT FUEL RAIL, THIS PRESSURE MUST BE RELEASED.

Fuel Pump Capacity Test (Article 2045888)

NOTE:

Before performing this test, vent

fuel pump

pressure by performing the Fuel Pump Pressure Test. Use this test in conjunction with the

Fuel Pressure

Leak Down Test.

1. Release

fuel system

pressure. Refer to the

Fuel Pressure Release

Procedure.

2. Disconnect fuel supply line (quick connect fittings) at

fuel rail

. Some engines may require

air cleaner housing

removal before line disconnection.

3. Connect appropriate Fuel Line Pressure Test Adapter Tool Hose (number 6631, 6923, 6541 or 6539) into disconnected fuel supply line. Insert other end of Adaptor Tool hose into a graduated container.

4. Remove fuel fill cap.

5. To activate fuel pump and pressurize system, obtain DRB scan tool and actuate ASD Fuel System Test.

6. A good fuel pump will deliver

at least 1/4 liter of fuel in 7 seconds

. Do not operate fuel pump for longer than

7 seconds

with fuel line disconnected as

fuel pump module

reservoir may run empty.

a. If capacity is lower than specification, but fuel pump

can

be heard operating through fuel fill cap opening, check for a kinked/damaged fuel supply line somewhere between fuel rail and fuel pump module.

b. If line is not kinked/damaged, and fuel pressure is OK, but capacity is low, replace

fuel filter

/

fuel pressure regulator

. The filter/regulator may be serviced separately on certain applications. Refer to Fuel Filter/Fuel

Pressure Regulator

Removal/Installation for additional information.

c. If both fuel pressure and capacity are low, replace fuel pump module assembly Refer to Fuel Pump Module

Removal/Installation.

Fuel Pump Capacity Test (Article 2045888)

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pressure by performing the Fuel Pump Pressure Test. Use this test in conjunction with the

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Leak Down Test.

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Fuel Pressure Release

Procedure.

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Removal/Installation for additional information.

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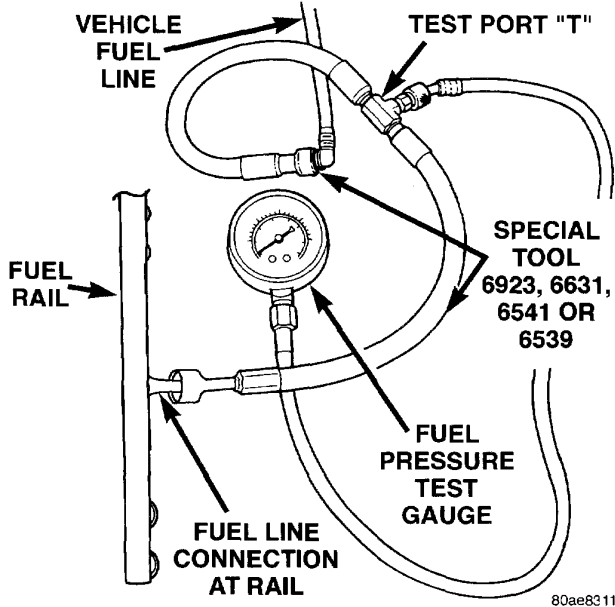
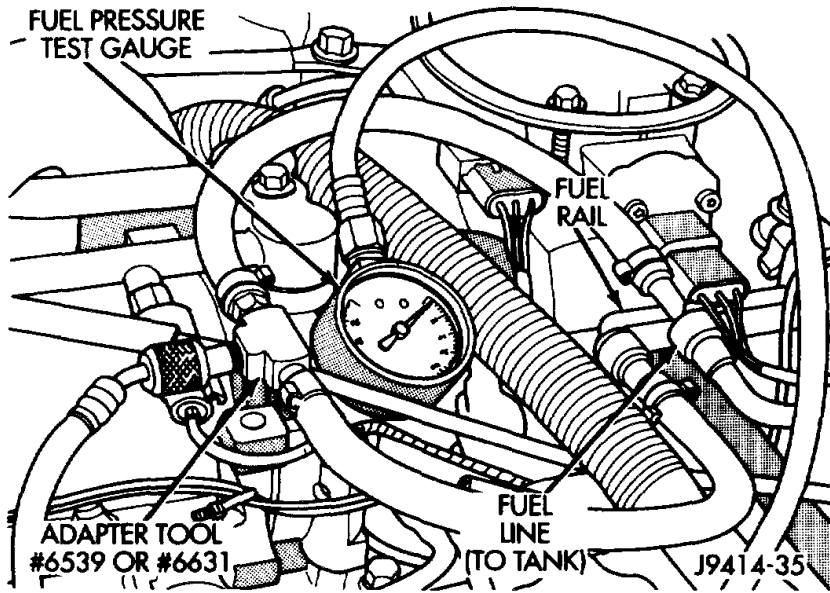
Pressure, Vacuum and Temperature (itype_29)

Fuel Pressure

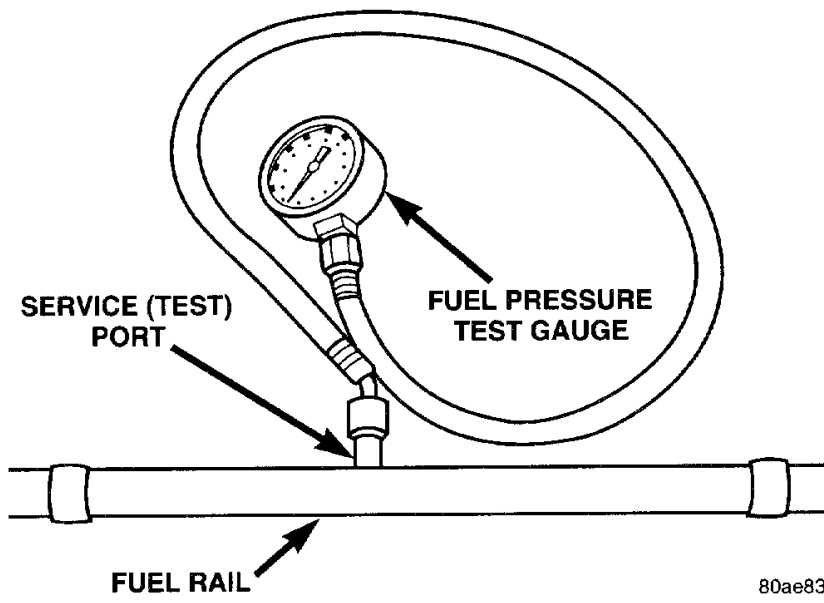
Engine at curb idle 338 ± 14 kPa (49.2 ± 5 psi)

Fuel Pressure Drop (pump not engaged) Not fall below 30 psi for 5 minutes

Fuel Pressure Leak Down Test (Article 2029940)



Fuel Pressure Test - With Test Port (Article 2046644)



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