

Hydraulic Test Program - Test (Fuel System Pressure and Internal Leakage Test)

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy <sup>1)</sup>
⇒ 1.0	<b>Fuel pressure at idle (with vacuum)</b>	Pressure gauge connected to test connection.	Engine: <b>at Idle</b> Valve on pressure gauge closed.	3.2 – 3.6 bar	Check fuel pumps 33, Replace diaphragm pressure regulator.
⇒ 2.0	<b>Fuel pressure at idle (without vacuum)</b>	Pressure gauge connected to test connection.	Engine: <b>at Idle</b> Disconnect vacuum hose from diaphragm pressure regulator.	3.7 – 4.2 bar	Replace diaphragm pressure regulator.
⇒ 3.0	<b>Fuel system leakage</b>	Pressure gauge connected to test connection.	Shut off engine.  After 30 minutes	> 3.0 bar  > 2.5 bar	If the pressure drops quickly, replace check valve in fuel pumps.  If the pressure drops slowly, check injectors 36, Replace diaphragm pressure regulator or O-rings on diaphragm pressure regulator.

<sup>1)</sup> Observe Preparation for Test, see 22.