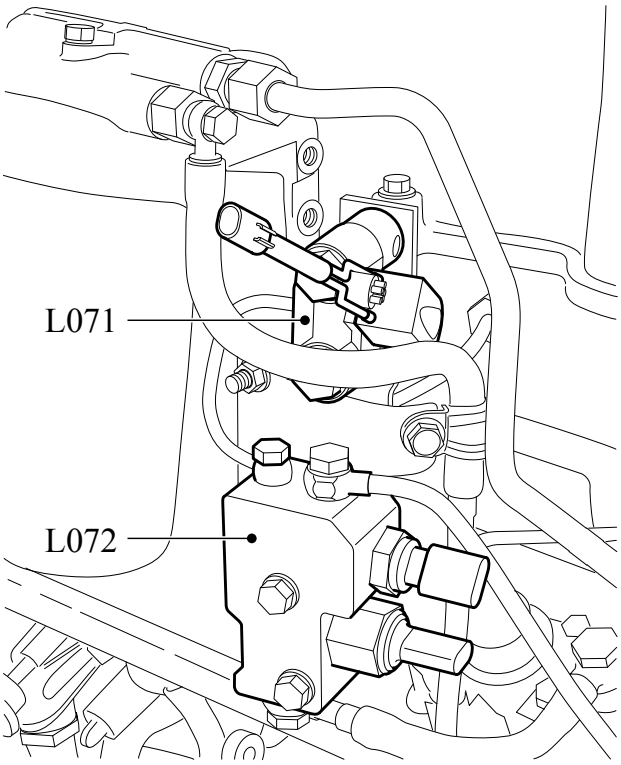
Intake Module, Fuel (L072)

A fuel pressure sensor (1) and a fuel shutoff valve (2) are mounted on the intake module. Depending on the activation of the fuel shutoff valve, fuel is supplied to the fuel dosing module.



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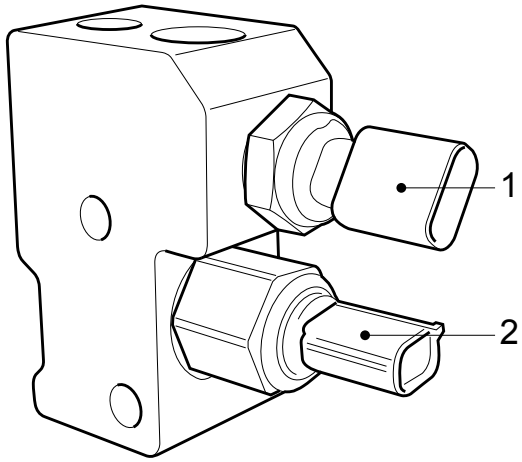

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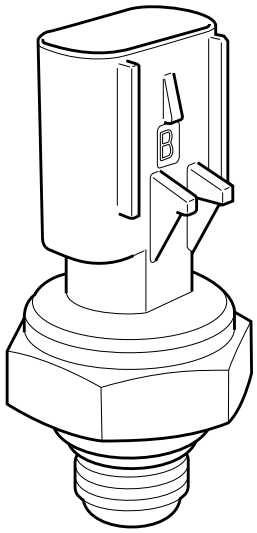
Fuel Pressure Sensor

The fuel pressure sensor measures the fuel pressure after the fuel control valve.

The fuel pressure sensor is a piezocapacitive sensor. The higher the pressure, the higher the voltage signal.

Effect of output signal on the system:

- Calculation of the amount of fuel that must be injected



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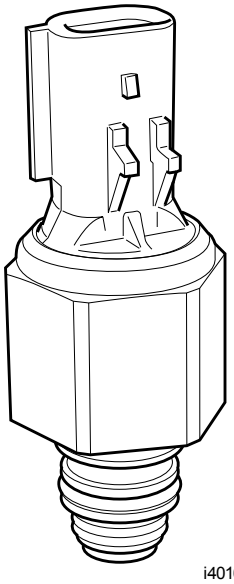
Fuel Shutoff Valve

The fuel shutoff valve supplies fuel from the engine fuel gallery via the fuel intake module to the fuel dosing module.



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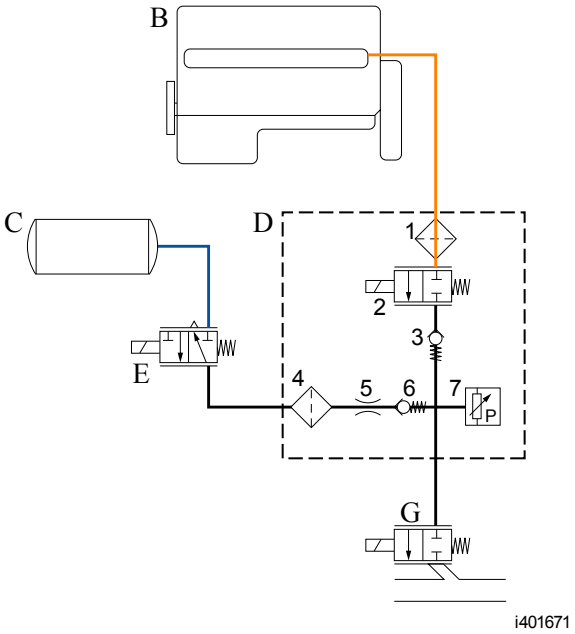
Intake Module Rest Position

During the particulate collection phase in the DPF, the fuel shutoff valve (D2) is closed and no fuel is supplied from the engine fuel gallery (B) to the fuel dosing module (G). Also, the air shutoff valve (E) is closed so no air from the air supply (C) is admitted into the intake module (D).



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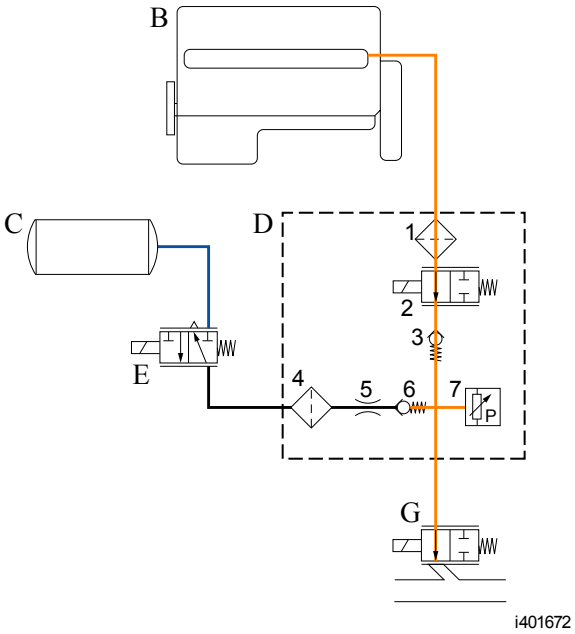
Intake Module Fuel Released

For active regeneration of the Diesel Particulate Filter, fuel is injected into the exhaust system. When the fuel shutoff valve (D2) is activated, fuel from the engine fuel gallery (B) flows via the fuel filter (D1) and check valve (D3) to the fuel dosing module (G). The fuel pressure is measured by the fuel pressure sensor (D7). The check valve (D6) prevents the fuel from entering the air circuit.



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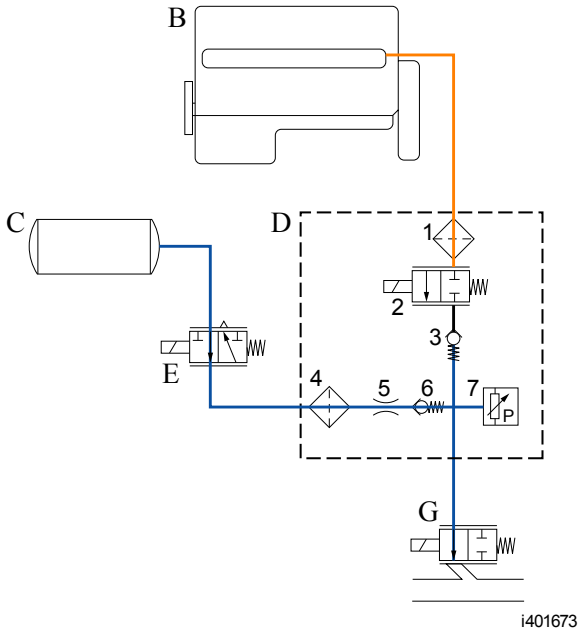
Intake Module Air Released

When regeneration of the Diesel Particulate Filter is finished, the fuel shutoff valve (D2) is closed. The intake module (D) and the fuel dosing module (G) are purged of air. The air supply valve (E) and the dosing module (G) are activated and air flows via the filter (D4), orifice (D5), and check valve (D6) to the fuel dosing module (G). The diesel in these components is purged into the exhaust gas flow. The orifice (D5) is placed into the air circuit to ensure constant air flow when the air supply valve (E) is activated.



M027007 - 08.12.2010

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