

HIGH PRESSURE FUEL PUMP [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

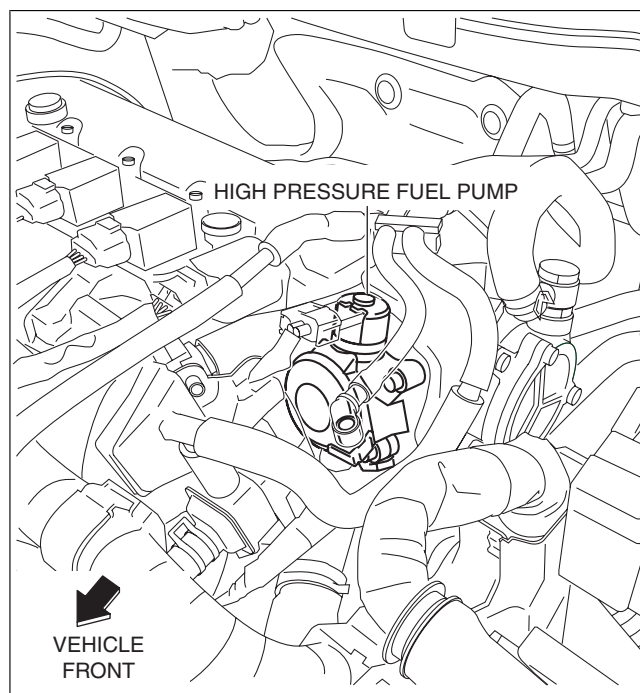
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Purpose, Function

- Applies pressure to fuel sent from the fuel pump equipped on the fuel tank, and then pumps it to the fuel delivery pipe.
- Fuel is sectioned and pumped by the up and down movement of the piston caused by the rotation of the cam installed to the rear end of the exhaust camshaft.

Construction

- The high pressure fuel pump is installed to the exhaust camshaft with the vacuum pump.
- The high pressure fuel pump consists of a spill valve control solenoid valve, spill valve, piston, and spring.



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Operation

- Based on the control signal from the PCM, the spill valve solenoid valve opens and closes in the high pressure fuel pump.
- For the high pressure fuel pump control details, refer to CONTROL SYSTEM. (See HIGH PRESSURE FUEL PUMP CONTROL [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

Fail-safe

DTC	Fail-safe
P0089:00	<ul style="list-style-type: none">• Limits the intake air amount.• Stops the high pressure fuel pump control.• The upper limit of the engine speed is 2,500 rpm.
P0091:00	<ul style="list-style-type: none">• Limits the intake air amount.• Stops the high pressure fuel pump control.
P0092:00	<ul style="list-style-type: none">• Limits the intake air amount.• Stops the high pressure fuel pump control.