

FUEL PUMP UNIT [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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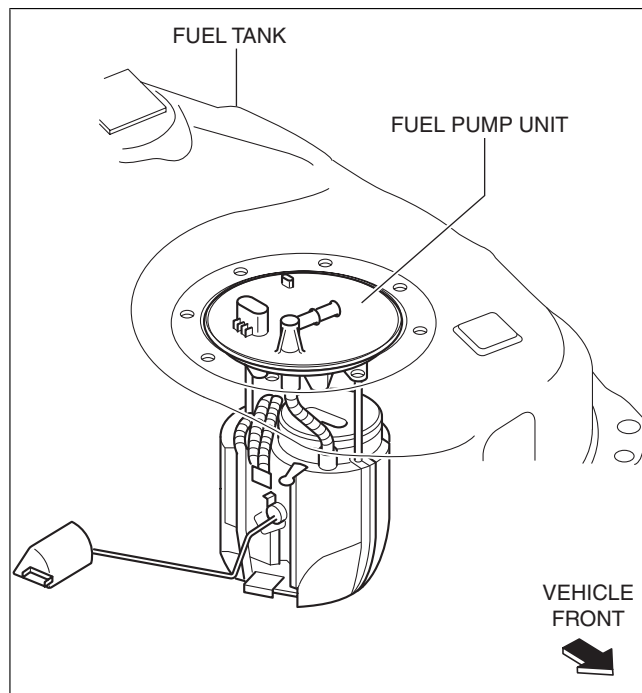
Purpose, Function

- Supplies fuel in the fuel tank to the high pressure fuel pump.
- Based on the control signal from the PCM, the fuel pump operates by the operation of the fuel pump relay and the fuel pump control module.

Construction

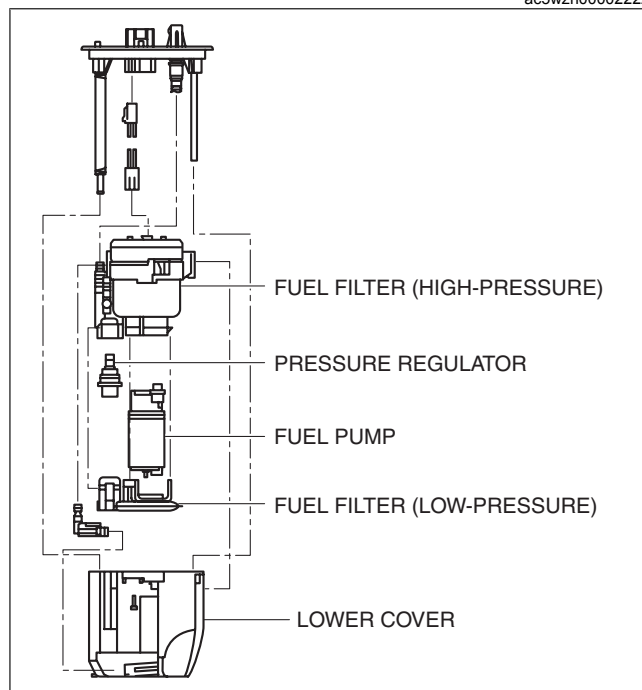
2WD

- The fuel pump unit is installed to the fuel tank.



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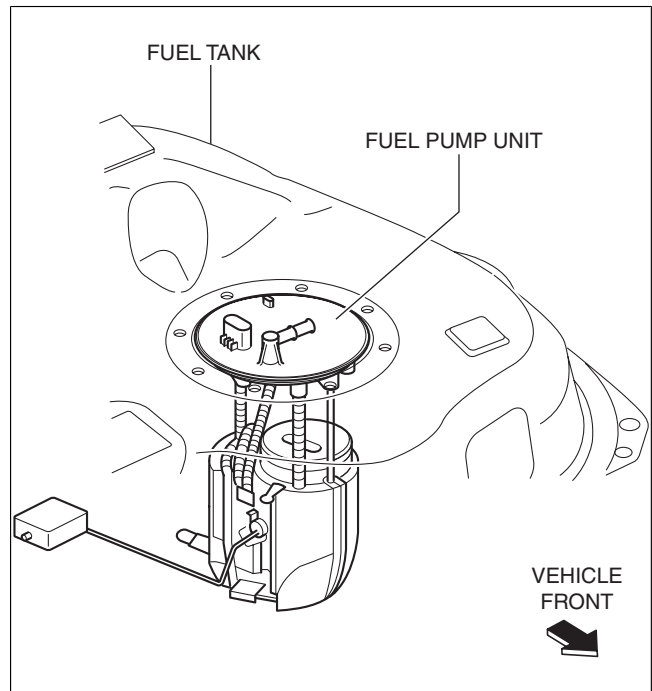
- The fuel pump unit consists of a fuel pump, fuel filter (low-pressure) fuel filter (high-pressure), pressure regulator, and lower cover.



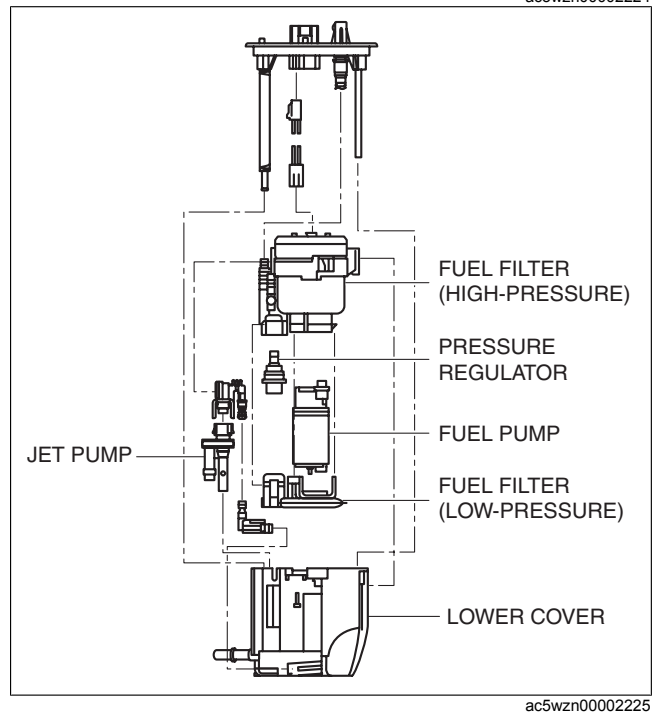
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4WD

- The fuel pump unit is installed to the fuel tank.



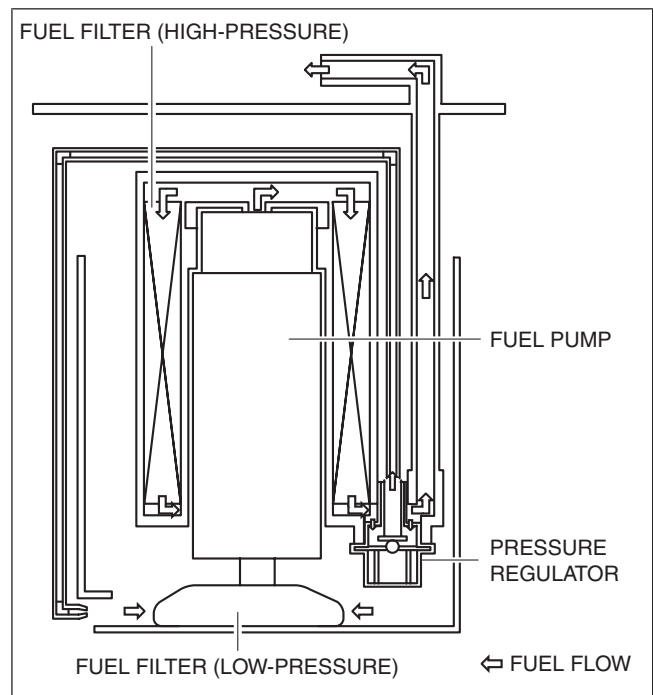
- The fuel pump unit consists of a fuel pump, fuel filter (low-pressure) fuel filter (high-pressure), pressure regulator, lower cover, and jet pump.



Operation

2WD

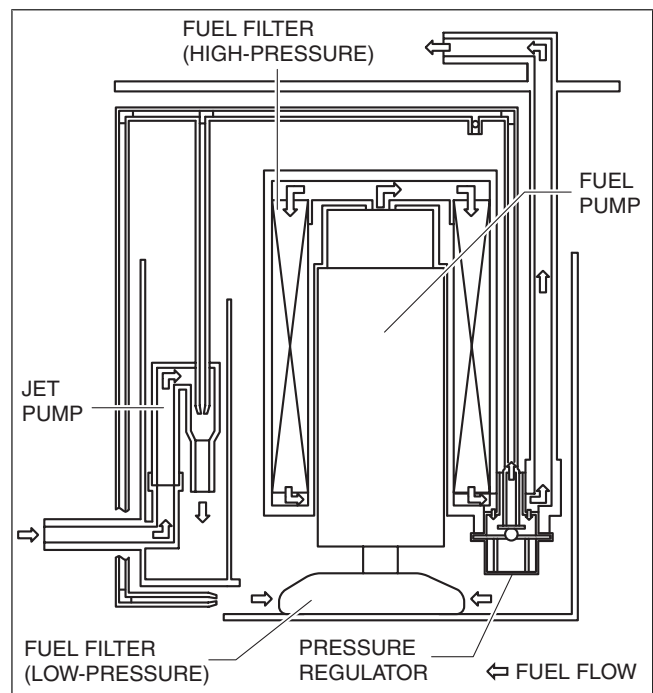
- Based on the control signal from the PCM, the fuel pump suctions fuel in the lower cover and pumps it to the high pressure fuel pump. After fuel is sufficiently filtered through the fuel filter (low-pressure) and fuel filter (high-pressure), fuel pressure is adjusted to **approx. 430 kPa {4.38 kgf/cm², 62.4 psi}** by the pressure regulator.



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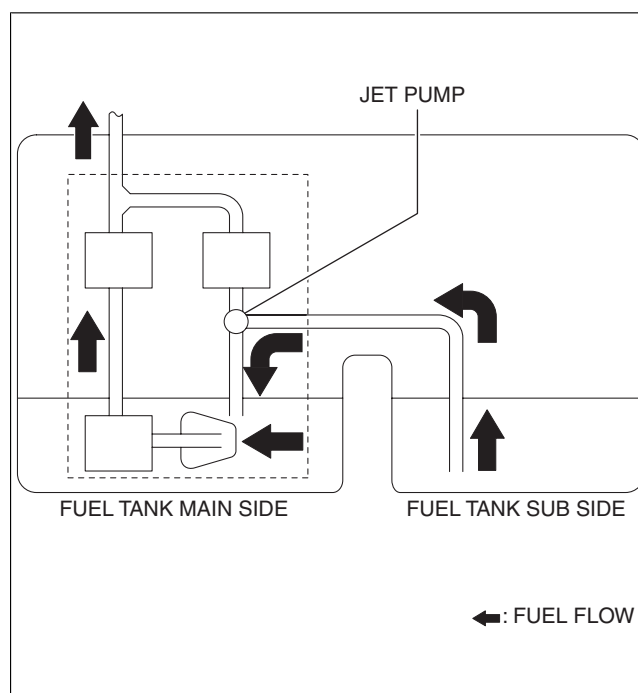
4WD

- Based on the control signal from the PCM, the fuel pump suctions fuel in the lower cover and pumps it to the high pressure fuel pump. After fuel is sufficiently filtered through the fuel filter (low-pressure) and fuel filter (high-pressure), fuel pressure is adjusted to **approx. 430 kPa {4.38 kgf/cm², 62.4 psi}** by the pressure regulator.



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- Positions the venturi pipe in the return path from the pressure regulator and sends fuel from the fuel tank sub side to the main side using vacuum generated in that area.
- For fuel pump control details, refer to CONTROL SYSTEM. (See FUEL PUMP CONTROL [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)



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Fail-safe

- Function not equipped.