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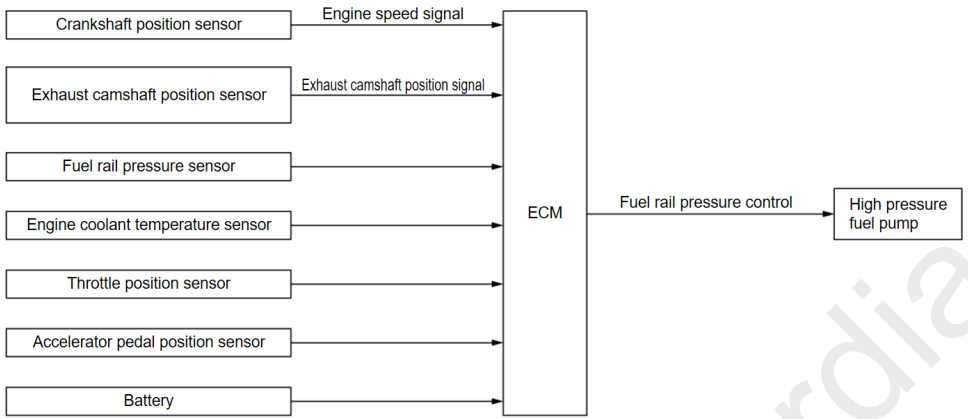
System Description

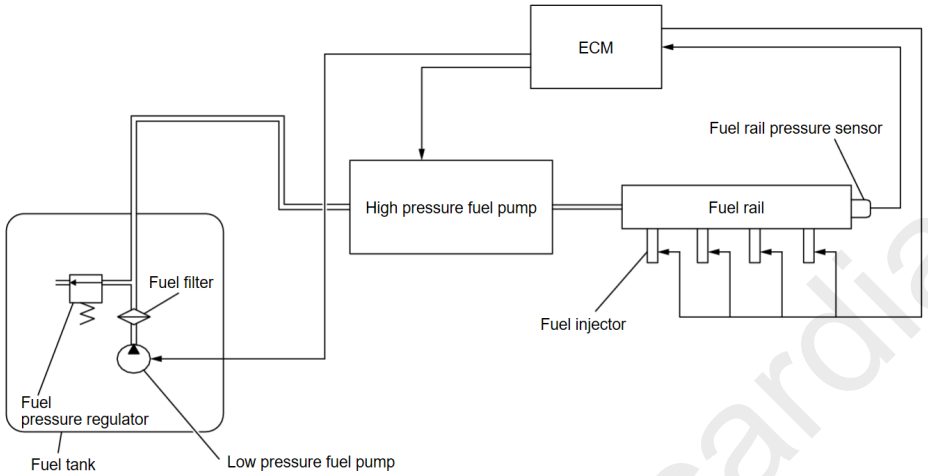
System Diagram



Component parts	Function
Crankshaft position sensor	Refer to Crankshaft Position Sensor.
Exhaust camshaft position sensor	Refer to Exhaust Camshaft Position Sensor.
Fuel rail pressure sensor	Refer to Fuel Rail Pressure Sensor.
Engine coolant temperature sensor	Refer to Engine Coolant Temperature Sensor.
Throttle position sensor	Refer to Electric Throttle Control Actuator.

Component parts	Function
Accelerator pedal position sensor	Refer to Accelerator Pedal Position Sensor.
Battery	ECM detects the battery voltage.
ECM	Refer to ECM.
High pressure fuel pump	Refer to High Pressure Fuel Pump.

SYSTEM DESCRIPTION



Low fuel pressure control

- The low fuel pressure pump is controlled by ECM and pumps fuel according to a driving condition. The pumped fuel passes through the fuel filter and is sent to the high pressure fuel pump.
- Low fuel pressure is adjusted by the fuel pressure regulator.

High fuel pressure control

- The high pressure fuel pump is actuated by the cam of camshaft (EXH).
- The high pressure fuel pump activates the high pressure fuel pump solenoid based on a signal received from ECM, and adjusts the amount of discharge by changing the timing of closing the inlet checkvalve to control fuel rail pressure.

For details about operation, Refer to High Pressure Fuel Pump.