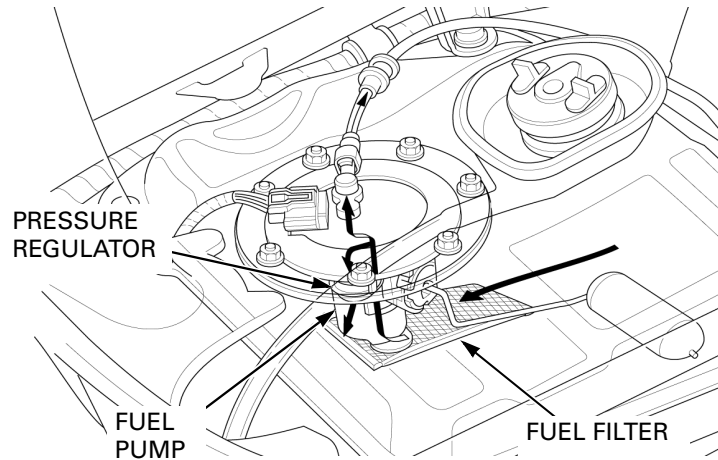


TECHNICAL FEATURES

FUEL PUMP SYSTEM

SUMMARY

- Fuel pump is located inside the fuel tank.
- Fuel pump draws in the fuel via fuel filter and delivers it to the injector.
The pressure regulator maintains fuel pressure in constant at 294 kPa (3 kgf/cm², 43 psi).



FUEL PUMP CONSTRUCTION

Fuel pump assembly consists of armature coil, pump section, residual pressure check valve, suction port and discharge port.

The pump section consists of armature coil-driven impeller and pump chamber composed of pump casing and pump cover.

FUEL PUMP OPERATION

- When the motor turns, fin grooves located on impeller circumference produce pressure difference due to hydro-friction force, fuel is drawn into the pump, then delivered out of the pump.
- The drawn fuel via the filter circulates inside the motor and passes the residual pressure check valve, then becomes delivered through the discharge port.
- When engine is turned OFF and fuel pump is not operating, the check valve maintains residual fuel pressure to ease engine restarting.
- Fuel pressure regulator maintains fuel pressure in constant by the regulator valve that opens when fuel pressure in discharge circuit (between the pump and injector) becomes higher than certain.

