FUEL PUMP & MODULE

What is a Fuel Pump or a Fuel Pump Module?

It is a device to draw fuel from a fuel tank and discharge and deliver it to injectors.

Early fuel pumps were out-of tank, in-line type which installed outside of the fuel tank. From about 20 years ago in-tank type pump which installed inside of the tank became the mainstream. Currently module type that integrates not only a pump but also a fuel flow rate detection device as a potentiometer or a float arm, a fuel filter and even a pressure regulator that regulates the fuel pressure is the mainstream.

Typical troubles and inspection methods

If a Fuel Pump fails, fuel can not be delivered to an engine properly and the following troubles appear:

- Engine starting failure, or
- Decrease of output.

An easy inspection method of a fuel pump is to check the operation noise. Since a fuel pump has unique operation noise, you can hear the noise if the fuel pump is operated when put your ear close to the inlet port of the fuel tank.

If the fuel pump is not working it is necessary to check if it is a failure of the fuel pump itself or a failure of the electric system to which operates the fuel pump.

As an inspection method of the fuel pump itself, the conduction of the fuel pump terminals of a fuel pump module connector is checked. Even if the conduction between the terminals is good it is recommended to replace the fuel pump if the fuel pressure is low or the fuel pump filter is soiled or damaged.

Since the inspection method depends on the maker of the vehicle, check the maintenance manual of the vehicle.