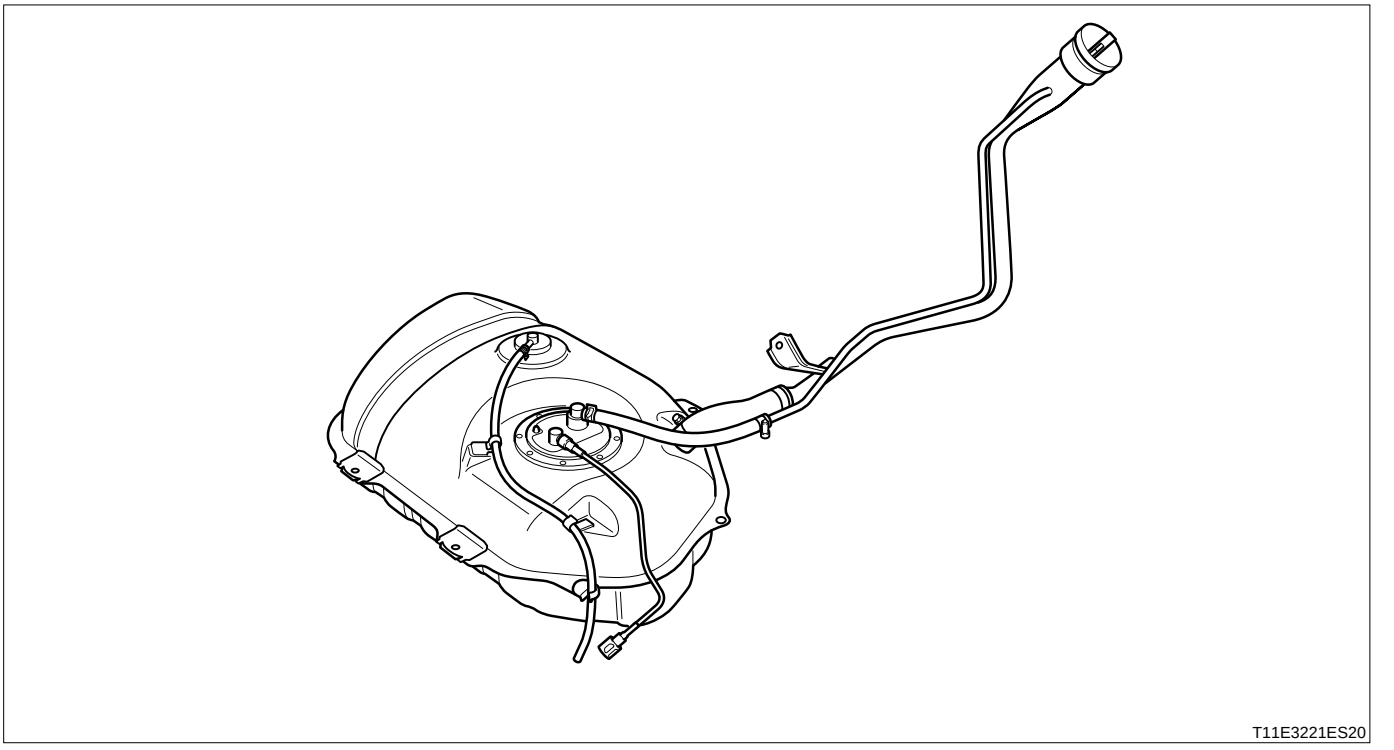
TO INDEX

B7 FUEL SYSTEM

1KR
1 OUTLINE
1-1 DESCRIPTION
The EFI type fuel supply device employs the fuel returnless system. The fuel is injected to each intake port.
2 CONSTRUCTION AND OPERATION
2-1 FUEL TANK
In consideration of safety when the vehicle is overturned or fuel is filled, a cut-off valve is provided to prevent fuel from flowing out and a fuel check valve is provided in the fuel inlet.
Furthermore, the fuel inlet mounting section is located in the upper back of the fuel tank to consider safety when a rear end collision or side collision occurs.
The full capacity of the fuel tank is 40 ℓ.
Considering the environment, using lead and hexad chrome for material of the fuel tank has been discontinued. A recycle mark is set to improve dismantling.
The fuel can be drained through the service hole on the body that is above the fuel tank. The drain plug has been discontinued.



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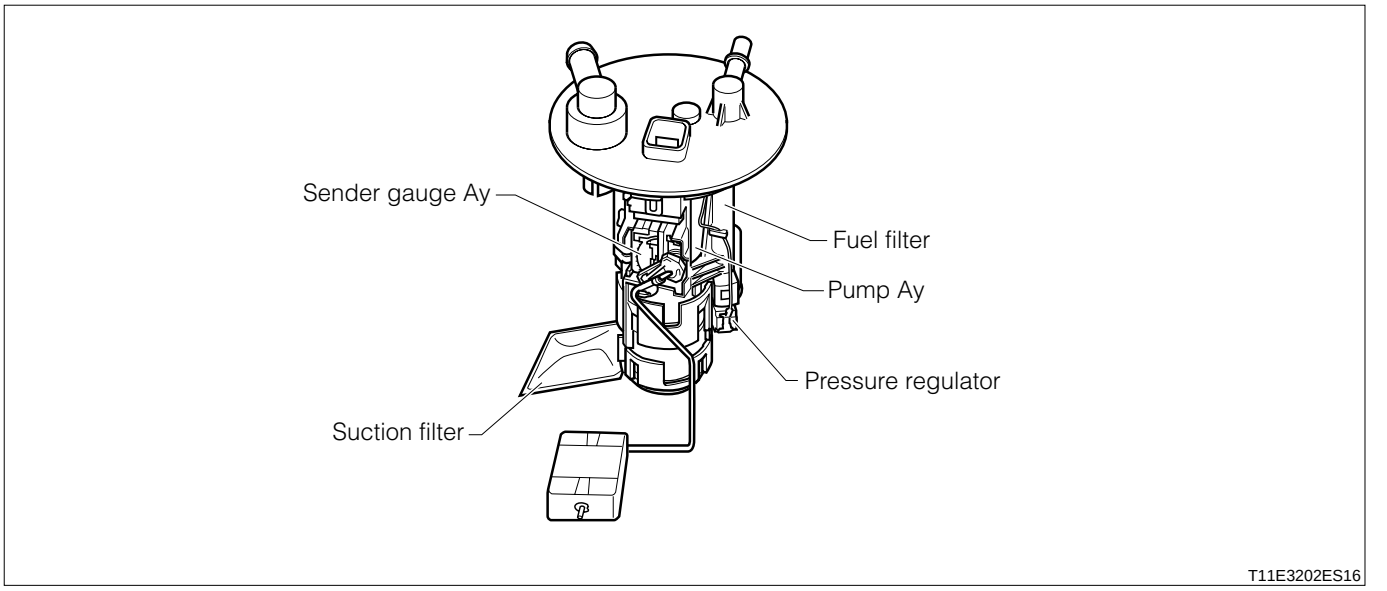
2-2 FUEL PUMP

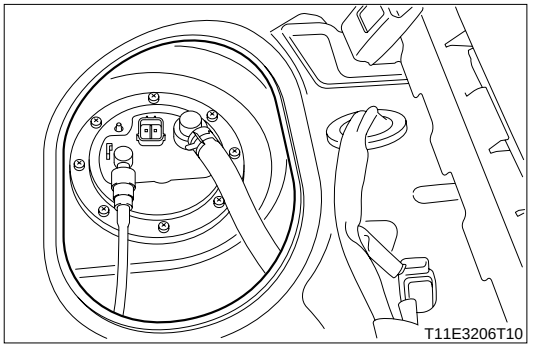
The fuel pressure regulator and high pressure filter are integrated with the fuel pump to return fuel in the fuel tank.
The fuel sender gauge is also integrated with the fuel pump.
The fuel pump is the in-tank type. A quick connector is adopted to connect with the fuel tube.



Fuel pump specifications

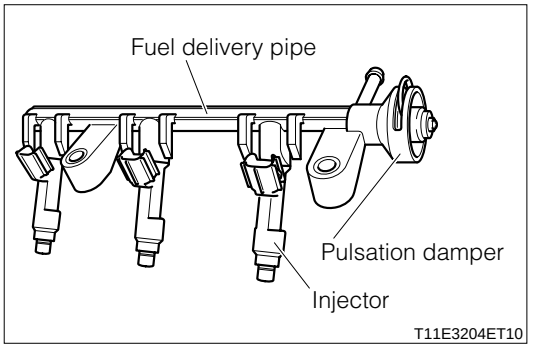
Discharge amount (ℓ/h) (Voltage 12V, discharge pressure 294 kPa)	46.5 or more

A service hole is provided at the rear floor of the vehicle for mounting and removing the fuel pump or draining fuel so that workability is improved.



2-3 FUEL DELIVERY PIPE

Due to adoption of the fuel returnless system, there is only a fuel inlet, but no outlet.
Plastic has been employed to realize weight saving.
A pulsation damper is provided to absorb fuel pulsation and improve accuracy of the fuel injection.

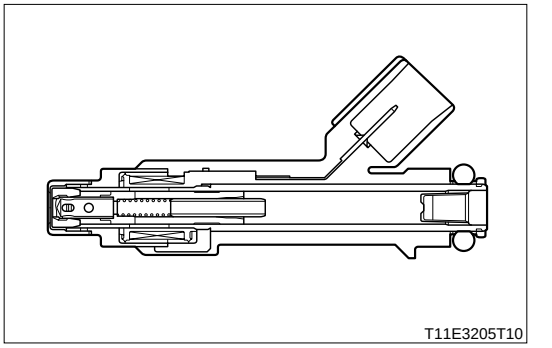


2-4 INJECTOR

The injector with 4 injection holes and injector hole diameter of 0.25mm, is adopted. By promoting atomization of fuel and reducing fuel stuck to the intake port, fuel consumption is improved and emission is reduced.

Injector specifications

Flow rate [fuel pressure 250kPa](cm^3/min)	185.0
Coil resistance [20℃](Ω)	12.0



2-5 FUEL CUT CONTROL SYSTEM

In order to prevent fuel leakage and fuel fire in the event of a vehicle collision, a safety mechanism is provided by which, upon receiving a signal from the air bag computer, the engine control computer forcibly stops the fuel pump.

K3

1 OUTLINE

1-1 DESCRIPTION

The EFI type fuel supply device employs the fuel returnless system.

2 CONSTRUCTION AND OPERATION

2-1 FUEL TANK

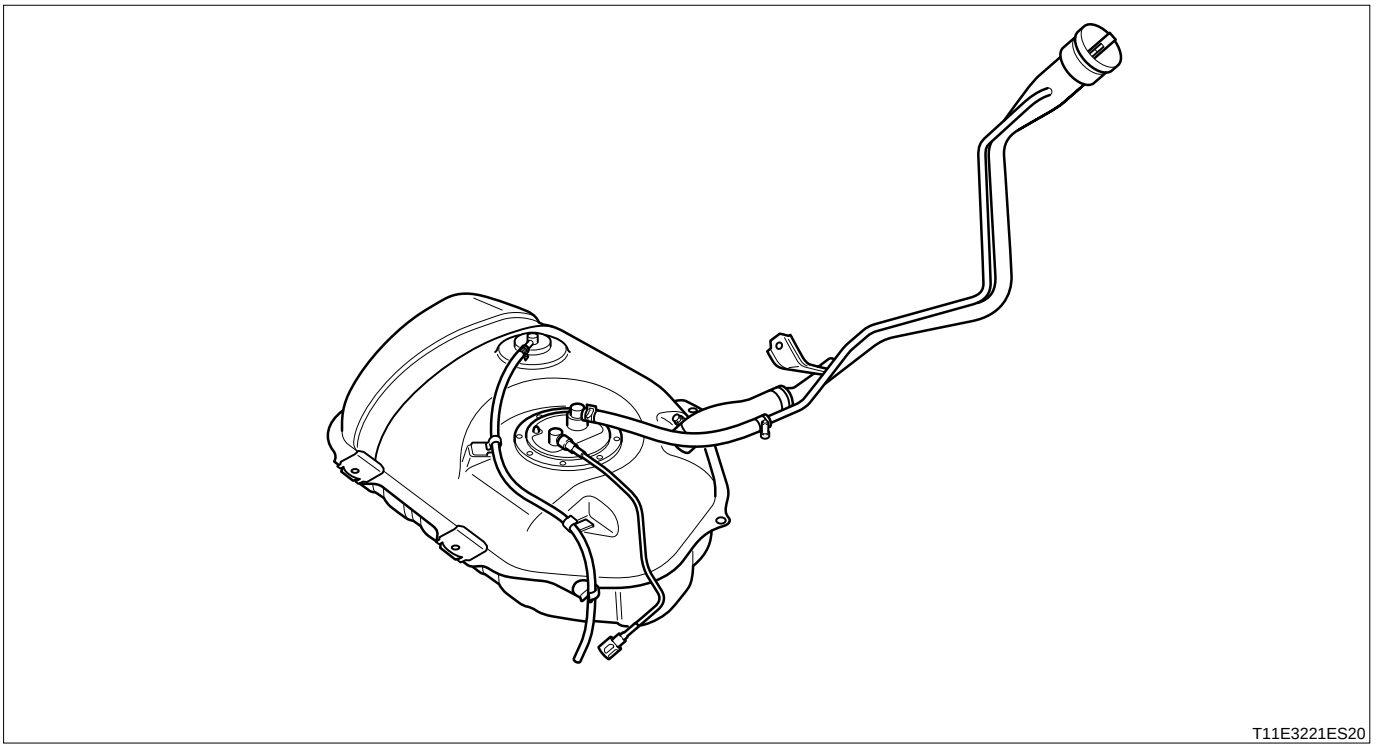
In consideration of safety when the vehicle is overturned or fuel is filled, a cut-off valve is provided to prevent fuel from flowing out and a fuel check valve is provided in the fuel inlet.

Furthermore, the fuel inlet mounting section is located in the upper back of the fuel tank to consider safety when a rear end collision or side collision occurs.

The full capacity of the fuel tank is 40 ℓ .

Considering the environment, using lead and hexad chrome for material of the fuel tank has been discontinued. A recycle mark is set to improve dismantling.

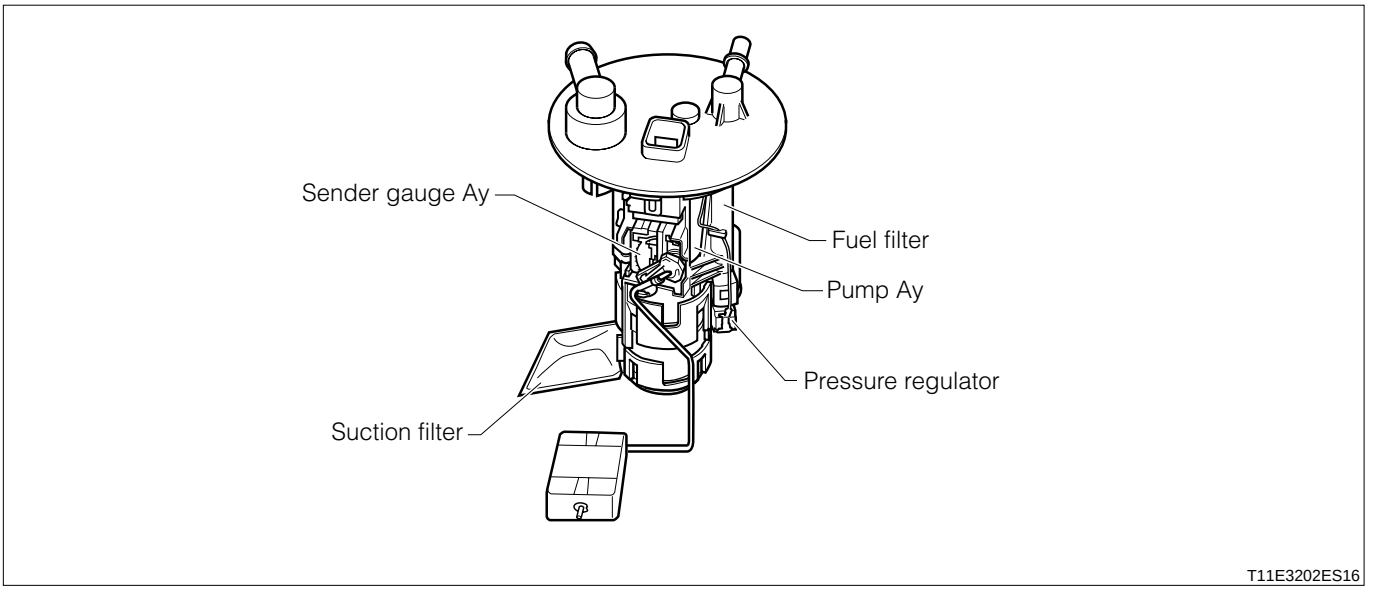
The fuel can be drained through the service hole on the body that is above the fuel tank. The drain plug has been discontinued.



T11E3221ES20

2-2 FUEL PUMP

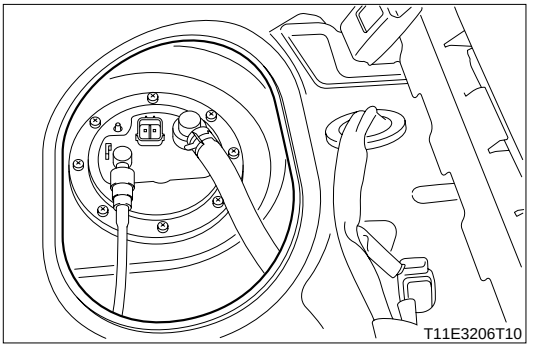
The fuel pressure regulator and high pressure filter are integrated with the fuel pump to return fuel in the fuel tank.
The fuel sender gauge is also integrated with the fuel pump.
The fuel pump is the in-tank type. A quick connector is adopted to connect with the fuel tube.



Fuel pump specifications

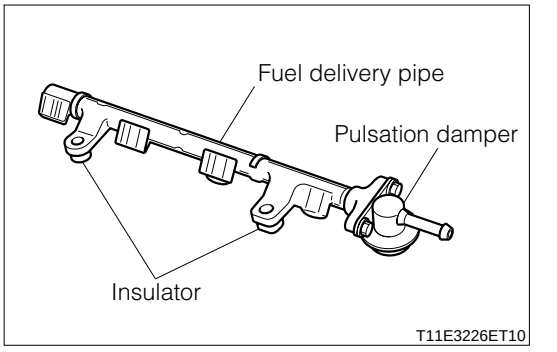
Discharge amount (ℓ/h) (Voltage 12V, discharge pressure 294 kPa)	46.5 or more

A service hole is provided at the rear floor of the vehicle for mounting and removing the fuel pump or draining fuel so that workability is improved.



2-3 FUEL DELIVERY PIPE

Due to adoption of the fuel returnless system, there is only a fuel inlet, but no outlet.
It is made of aluminum die-casting. The joint area with the fuel hose is of the flange O ring type.
A pulsation damper is provided to the joint section with the fuel hose to absorb fuel pulsation and improve accuracy of the fuel injection.

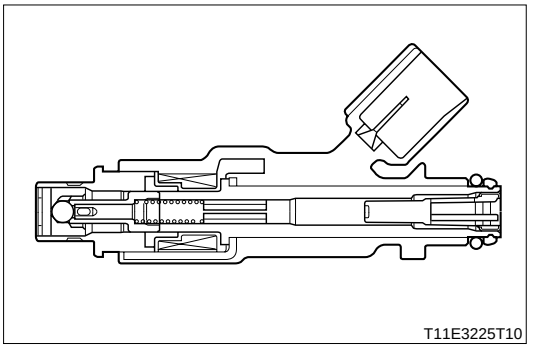


2-4 INJECTOR

A new type 4-hole injector is adopted to optimize the fuel injection characteristics.

Injector specifications

Flow rate [fuel pressure 250kPa](cm^3/min)	185.0
Coil resistance [20℃](Ω)	12.0



2-5 FUEL CUT CONTROL SYSTEM

In order to prevent fuel leakage and fuel fire in the event of a vehicle collision, a safety mechanism is provided by which, upon receiving a signal from the air bag computer, the engine control computer forcibly stops the fuel pump.