



E138891

Item	Part Number	Description
1	-	Locking ring
2	-	Adapter
3	-	Outlet connection
4	-	Mounting flange
5	-	Electrical connector
6	-	Gasket
7	-	Sender unit potentiometer
8	-	Sender unit float
9	-	Jet pump
10	-	Screen
11	-	Base
12	-	Fuel pump
13	-	Pressure relief valve
14	-	Inlet connection

The pump and sender assembly is installed in the top of the fuel tank and secured with a gasket, adapter and locking ring. Two fuel connections and an electrical connector are located in the mounting flange for attachment of the fuel lines and the vehicle wiring respectively.

The fuel pump is installed in the base of the assembly, which contains a swirl pot to provide a constant reservoir of fuel for the fuel pump. A jet pump, powered by a feed from the fuel pump, induces fuel into the swirl pot. A coarse mesh screen over the swirl pot inlet prevents the ingress of larger pieces of debris. The primary outlet from the fuel pump is connected to the fuel outlet connector in the mounting flange via a pressure relief valve. The pressure relief valve limits the pressure of the fuel supplied to the engine and releases excess fuel back into the tank. A pipe attached to the fuel inlet connector directs return fuel from the engine into the swirl pot.

The pump is an electric vane pump. Electrical power for the fuel pump is supplied from the fuel pump relay in the [BJB \(battery junction box\)](#), which is controlled by the [ECM \(engine control module\)](#). The [ECM](#) energizes the fuel pump relay while the ignition switch is in the ignition and crank positions, provided it also receives an ignition on signal from the inertia switch. If an accident occurs that activates the inertia switch, the ignition on signal from it is discontinued and the [ECM](#) then de-energizes the fuel pump relay to stop the pump.

The sender unit comprises a potentiometer operated by a float. The float rises and falls with the fuel level in the tank and moves the potentiometer accordingly.

A voltage is supplied to the potentiometer from the instrument pack. The output voltage from the potentiometer varies