

Fuel Supply System

Petrol engine \rightarrow fuel vapourizer

petrol tank \rightarrow fuel pump \rightarrow filter \rightarrow Carburettor \rightarrow Cylinder.

The main parts are

- 1) Fuel tank
- 2) Fuel pump
- 3) Fuel filter
- 4) carburettor
- 5) Intake manifold
- 6) Fuel tubes
- 7) Gauge to indicate the fuel level.

* To store fuel in the fuel tank

* To supply fuel to the required amount and proper condition

* To indicate the driver the fuel level in the tank

Different types of fuel supply system

1) Gravity system \rightarrow motor cycles & scooters

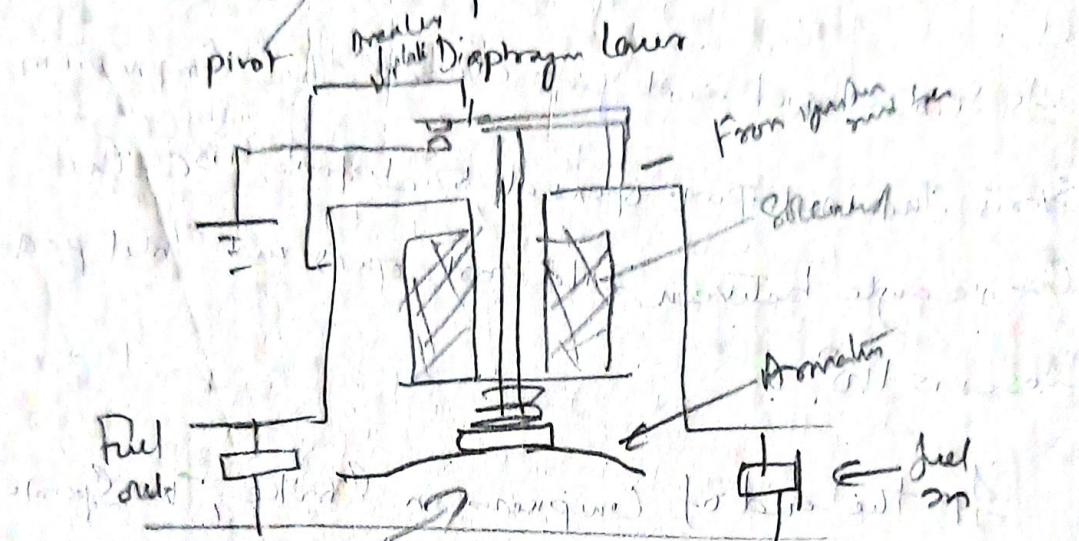
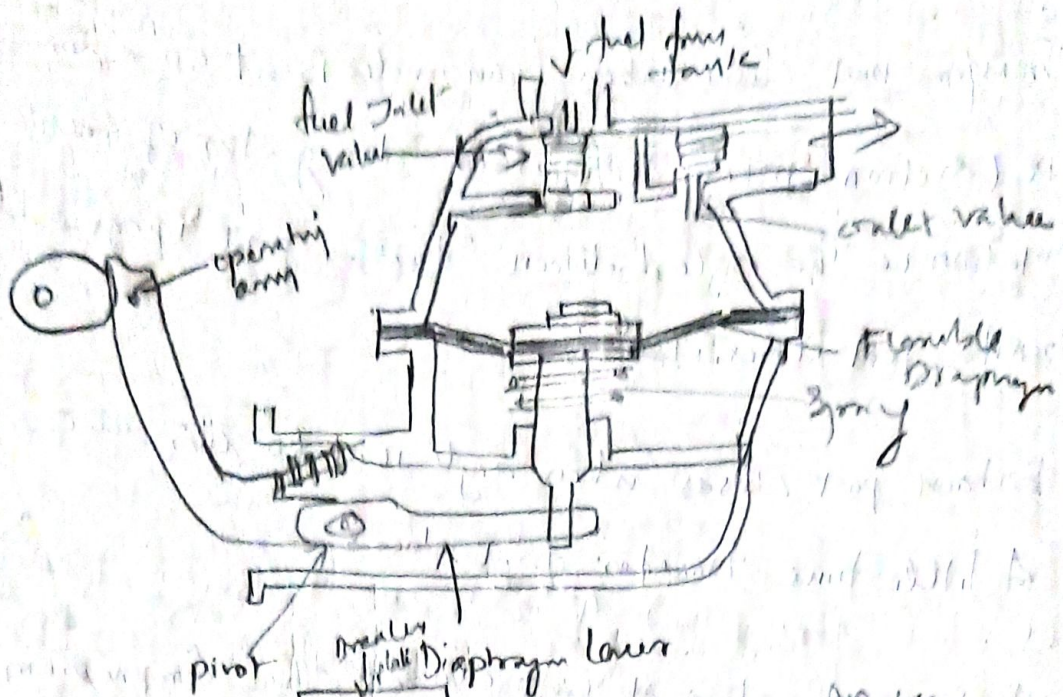
2) pressure system \rightarrow pump is used for creating pressure

3) Vacuum system \rightarrow Engine section used suck the petrol from the main tank to the auxiliary tank and it flows

by gravity

4) pump system & Fuel Injection System

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Fuel Injection pump is used in place of carburettor. The fuel is atomised by means of nozzle and delivered into an air stream.



The diagram illustrates the internal components of a fuel injection system. The fuel inlet valve allows fuel to enter the pump plunger. The pump plunger, driven by the opening arm, compresses the fuel. The flexible diaphragm and piston mechanism regulate the fuel flow into the combustion chamber. The fuel outlet valve then delivers the pressurized fuel to the injection point. The combustion chamber is where the fuel is ignited by a spark plug.