

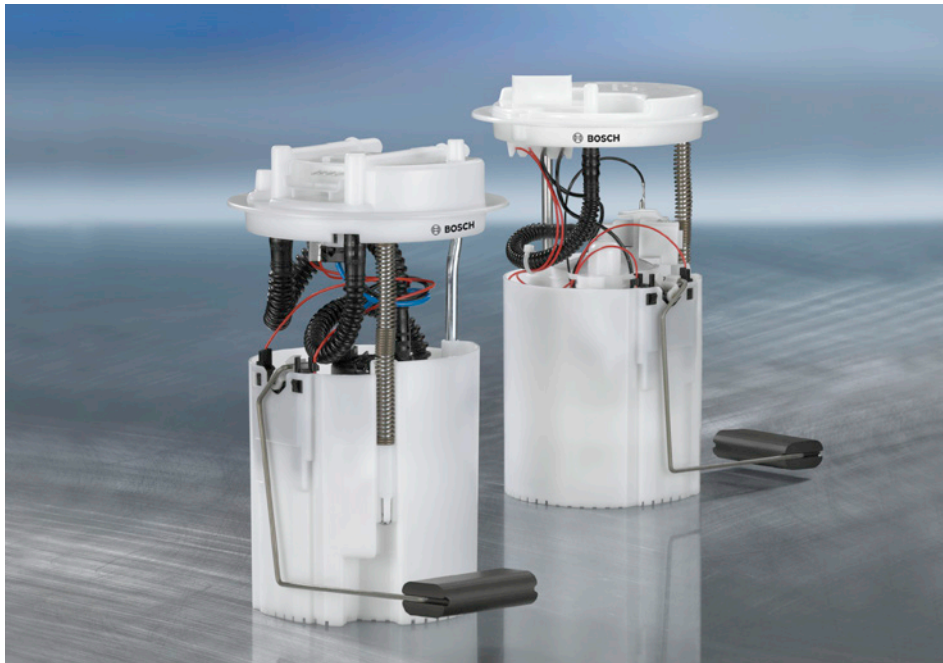
# Electric Fuel Pumps

## Overview, features and benefits

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**BOSCH**  
Invented for life



- ▶ Original equipment product
- ▶ Systems innovator and manufacturer

- ▶ In the range: individual pump units, in-tank module assemblies and fuel pump kits

### Bosch Electric Fuel Pumps

Engine management and fuel delivery systems are a core part of Bosch's activities. That is why you can be confident you are choosing the right solution for your customers by using Bosch electric fuel pumps.



The electric fuel pump although predominantly used on gasoline systems, are becoming increasingly common on modern diesel powered vehicles.

### Two main vehicle setups of fuel supply

#### External Fuel Pump

Early design - 1960's to early 1990's  
These pumps are susceptible to:

- ▶ Water ingress from tank (age related)
- ▶ Fuel contaminated with debris
- ▶ Corrosion
- ▶ Physical damage



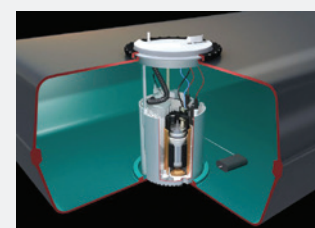
External in-line pump

Image not to scale

#### In-Tank Fuel Pump

Latest design - 1990's onwards. Mounted within the fuel tank itself.

- ▶ Modular design incorporating swirl pot, fuel level sensor, fuel pressure regulator
- ▶ Less susceptible to impact damage and corrosion
- ▶ Cooler and quieter running



In-tank pump unit

Image not to scale

Competence in fuel supply modules with impressive high standards

# Electric Fuel Pumps

## Fuel pump kits

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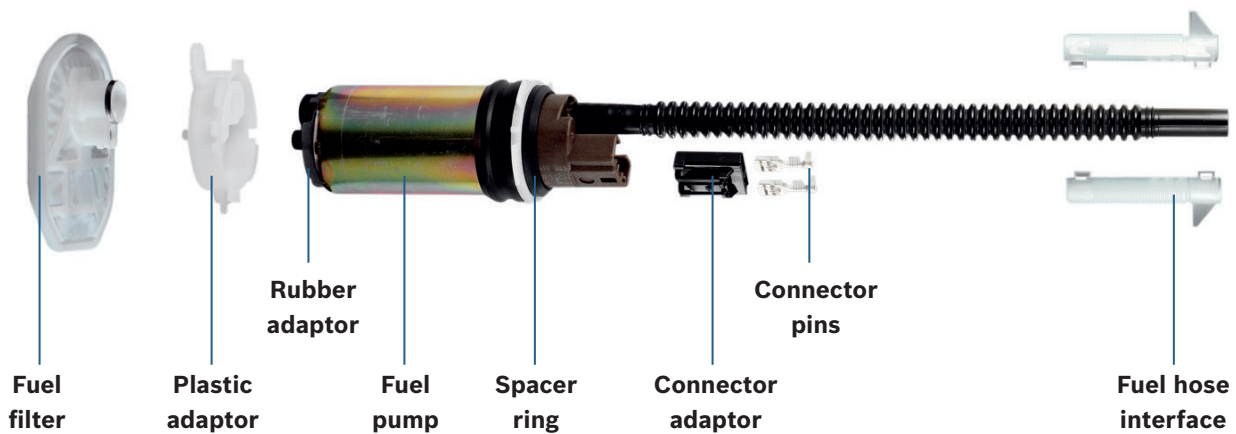


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### Fuel Pump Kits

Bosch fuel pump kits for non-Bosch in-tank units. These kits include all of the components required to carry out a repair, including full instructions. The replacement pumps are genuine Bosch manufactured original equipment units which we have engineered for use in specific in-tank module assemblies.

### Typical Fuel Pump Kit breakdown



### Features of Fuel Pump Kits

- ▶ Specifically engineered by Bosch for use in existing module assemblies
- ▶ Achieved with bespoke components in a kit form
- ▶ Complete with all necessary fittings and instructions
- ▶ Quality and function of the original is never compromised



### The future

The brushless motor for the electric fuel pump is already being installed in some new vehicle applications. It features an extended service life whilst being lighter and up to 10% more efficient than its mechanical counterpart. It's unique in requiring a pump control module, which enables control of the fuel flow rate, contributing to a reduction in CO2 output.

### Fuel Pumps Summary:

- ▶ Original equipment product
- ▶ Kits; specially engineered solution, for in-tank modules
- ▶ Unrivalled reliability
- ▶ Cooler and quieter running