HC CAR GO®

Engine Management

Sensor Programme

Your Expert in Parts

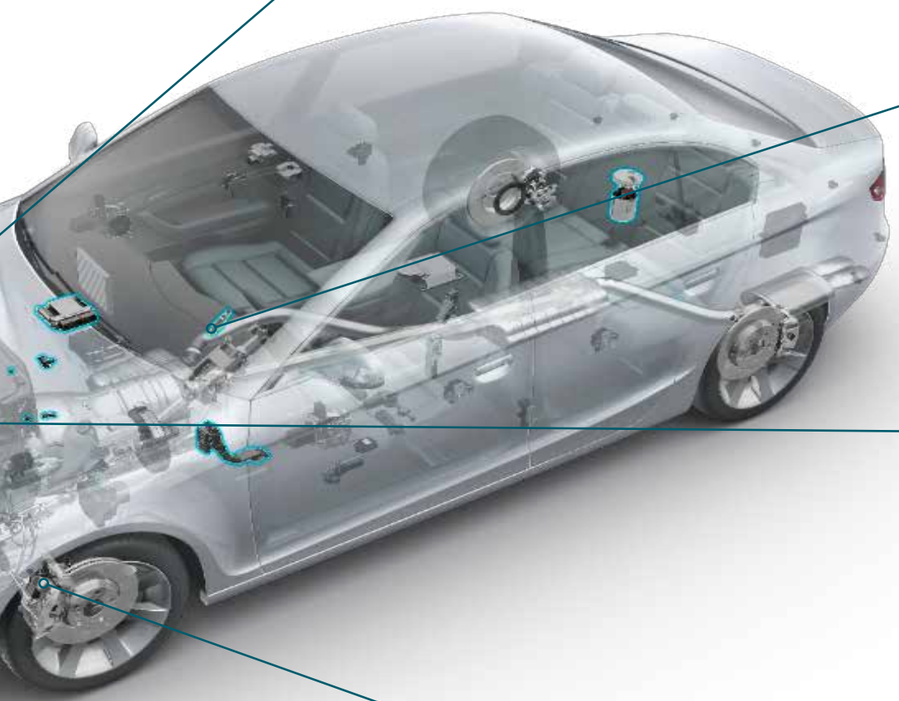
Engine Management @ HC-CARGO

Engine Management becomes more complex. Engine management systems have become a fundamental element in modern motor vehicles. The number of different electronic and electric components in vehicles has dramatically increased in recent years.

Typical market drivers for this are also electrification, advanced safety, automated driving and tightened regulations on exhaust emission controls.

Therefore, HC-CARGO has developed an attractive, reliable and competitive range of commonly replaced sensors. Here you can see which types of sensors, valves and coils we offer.

We will continue to extend the program to offer you an even more comprehensive offer. You can always see our full and updated range in our online webshop: www.hc-cargo.com



Air Mass Sensors

Air mass sensors register the mass of air that is being drawn into the engine and converts this into an electrical signal, which is sent to the ECU.

Ignition Coils

The purpose of the coil's pulses is to generate a spark (arc) between the electrodes of the spark plugs that is necessary to start the internal combustion.

Camshaft / Crankshaft Sensors

These two sensor types monitors the position or rotational speed of the camshaft/crankshaft drive. This information is used by the ECU to control the fuel injection and the ignition timing as well as other engine parameters.

MAP Sensors

MAP sensors provide manifold pressure data to the car's ECU. The ECU uses this input to calculate the engine's load, thereby establishing the correct fuel dosage and ignition timing.

Lambda Sensors

A lambda sensor measures the proportion of oxygen (O2) in the exhaust system.
The sensor helps the engine run as efficiently as possible while also minimising various emissions.

EGR Valves

An EGR valve recirculates a measured amount of exhaust gas into the engine's air intake to lower combustion temperatures. This reduces the level of hazardous nitrogen dioxide (NOx) concentration emitted to the environment by up to 50%.

ABS Sensors

The ABS system detects incipient locking of one or more wheels at an early stage and selectively reduces the braking pressure. Without an ABS system the wheels of a vehicle can become locked when braking.

Products delivered in HC-CARGO branded boxes

Did you know?

The name lambda derives from the 11th letter of the Greek alphabet. In combustion theory lambda (λ) denotes the mass ratio of air and fuel in a combustion process. The optimum (stoichiometric) mixture of λ equals an air-fuel ratio of 14.7 kg air to 1 kg fuel.

Did you know?

Ignition coils have undergone a complete redesign in recent years. Traditional oil/ asphalt filled, barrel-shaped coils belong to the past. Today, most manufacturers use resin-filled plastic coils with iron cores that are manufactured in all shapes and sizes.

Did you know?

There are different types of air mass sensors. Most modern cars, however, use a hot-wire or hot-film type.

Did you know?

Today, almost all new cars are equipped with a MAP sensor as this sensor contributes to an efficient fuel consumption.

Did you know?

ABS sensors can have multiple functions and deliver input to other systems, such as the tyre pressure monitoring system (TPMS).

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www.hc-cargo.com