



PRODUCT INFORMATION

Electronic Throttle Body Module

- Continuous expansion of the product range
- Adaptation to the engine control unit required
- Higher engine power
- Avoidance of malfunctions during operation

PRODUCT FEATURES

Situated between the intake manifold and the intake assembly, the throttle body regulates the amount of air entering your vehicle's engine, depending on how far you press the gas pedal. Typically, more airflow results in greater power. In an electronic throttle body (ETB) system, a small electric motor manages the opening and closing of the throttle body plate, which is controlled by a computer. This computer can be either the engine control module (ECM), the powertrain control module (PCM), or a dedicated ETB module, depending on the vehicle

- Engine control modules (ECMs) manage the engine,
- Powertrain control modules (PCMs) oversee both the engine and the transmission, ETB modules specifically control the electronic throttle body.
- In drive-by-wire vehicles without an ETB module, the electronic throttle body is controlled by either the ECM or PCM. Vehicles manufactured after the mid-2000s commonly feature ETBs, which usually contribute to lower emissions and improved fuel efficiency.

BENEFITS

Most drivers do not notice the benefits of electronic throttle control because the aim is to make the vehicle power-train characteristics seamlessly consistent, irrespective of prevailing conditions, such as engine temperature, altitude, and accessory loads. Electronic throttle control also works, "behind the scenes" to dramatically improve the ease with which the driver can execute gear changes and deal with the dramatic torque changes associated with rapid decelerations.

Electronic throttle control facilitates the integration of features such as cruise control, traction control, stability control, precrash systems, and others that require torque management since the throttle can be moved irrespective of the position of the driver's accelerator pedal. ETC provides some benefits in areas such as air-fuel ratio control, exhaust emissions, and fuel consumption reduction, and also works in concert with other technologies such as gasoline direct injection.

Product features, specifications and availability are subject to change without notice.

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