

# Engine Management Actuators

## Overview, features and benefits

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**BOSCH**

Invented for life



▶ Original equipment product

▶ Provides optimal engine performance emissions and fuel economy

### Bosch Engine Management Actuators

Bosch has a diverse range of quality engine management actuators ensuring long service life and accurate operation. In simple terms, actuators are the components that the

ECU controls to make physical changes to the running of the engine. This can be in the form of rotational, angular or linear movements of any number of devices.

#### Function

- ▶ Engine management actuators are the devices that implement physical movement in order to make changes to engine running parameters.
- ▶ They control different areas around the engine, for example:
  - ▶ Adjust engine idle speed
  - ▶ Operate the throttle butterfly to change engine speed
  - ▶ Solenoid valves to operate various emission control systems

- ▶ Adjust camshaft timing plus inlet and/or exhaust valve lift
- ▶ Change inlet manifold duct length

#### Product Range & Terms

- ▶ Idle actuator, idle valve, idle actuator, idle control valve, stepper motor, idle bypass valve, auxiliary air valve
- ▶ Throttle housing
- ▶ Canister purge valve, carbon canister, EVAP system
- ▶ Camshaft controller
- ▶ Secondary air pump



Engine management actuators are critical components to ensure the correct performance of the modern engine.

Vital components, without which, the engine could not run efficiently or conform to emission requirements