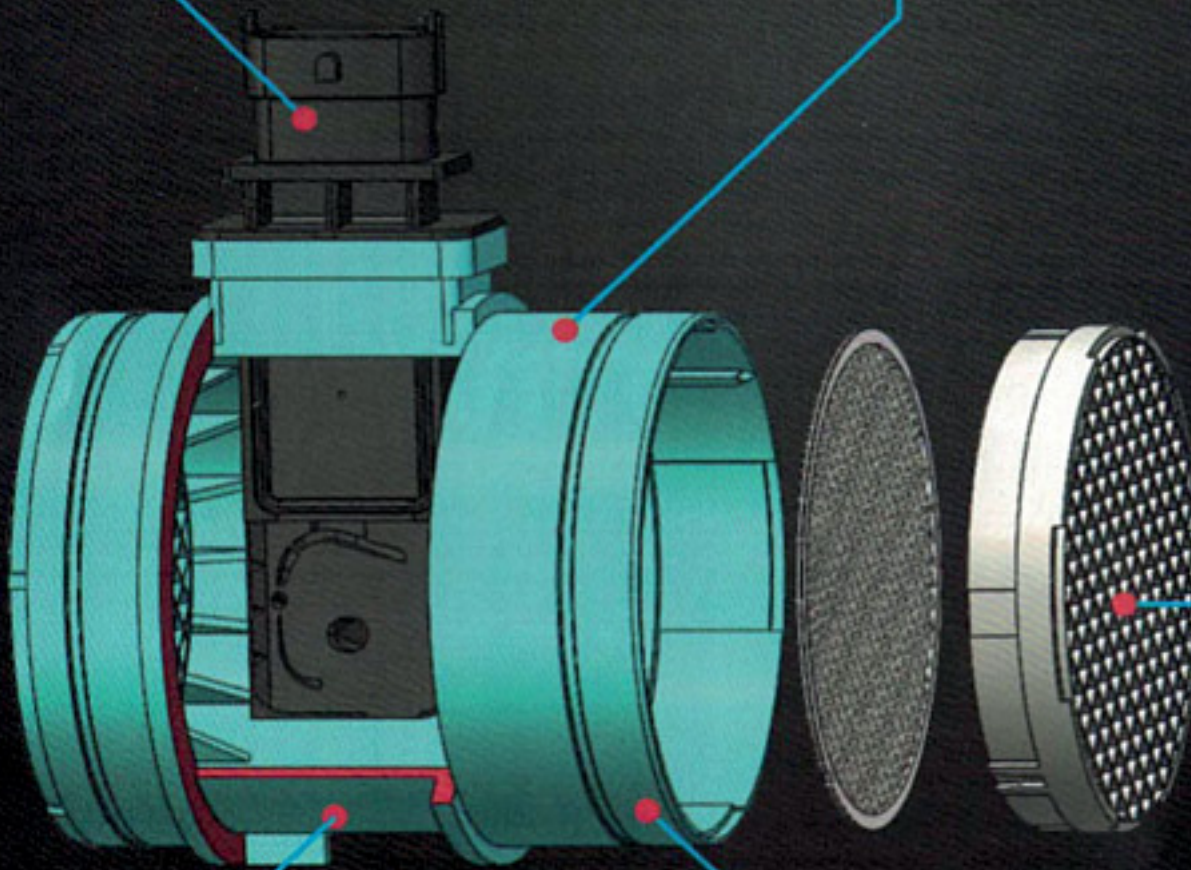


MASS AIR FLOW SENSOR ASSEMBLY

Each MAF sensor is double calibrated prior to packaging, assuring the proper output signal during operation

Hundreds of different molds are needed for various applications.



Filter prevents the sensitive sensor element from physical damage.

Different measurement pipe sizes are used depending upon the necessary air flow of the combustion motor.

Environmental PBT-30 instead of recycled material.

TECHNICAL PARAMETER

- A. 0~960 kg/h measuring range
- B. $\pm 3\%$ accuracy
- C. $\leq 15\text{ms}$ quick response
- D. 7~18V Wide operating voltage range

- E. $-40\text{ }^{\circ}\text{C} \sim +120\text{ }^{\circ}\text{C}$ temperature range
- F. Accurate matching with ECU can be achieved
- G. Alternative OEM products

PLUG-IN SENSOR

All chips are subjected to a high temperature aging test to prevent premature failures.

All of the product structure components are developed by 3D software technicians with extensive experience in design to meet the sizes requirements of OEM specifications.

Manufactured using PIC 8 bit SCM chips from Microchip to realize complicated computing processes and functions.

The sensors measure the air mass consumed by the motor as well as the temperature of the air intake.

A percentage of the flow from the measurement pipe is guided past the sensor element through a measurement channel on the plug-in sensor housing.

INSTALLATION LOCATION

The air in-take system is installed between either the air filter and the throttle fixture or between the air filter and the turbocharger. In the case of turbocharged motors, either as a plug-in sensor in an existing air duct part, such as the air filter housing, or as a preassembled module, including measurement pipe and plug-in sensor.



MASS AIR FLOW SENSOR:

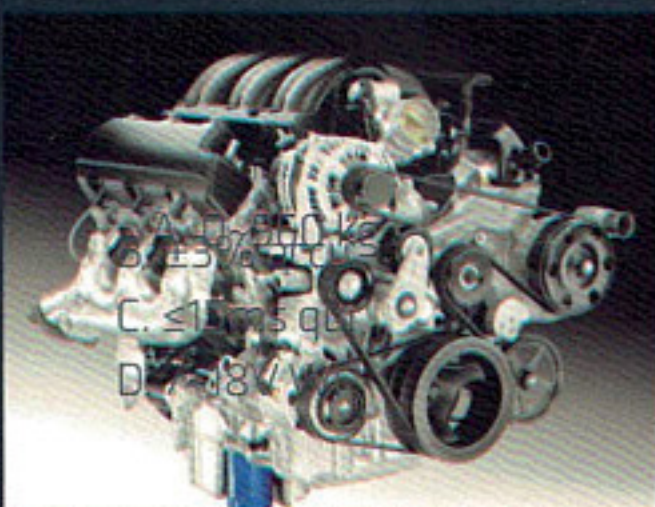
Air is important not only to human beings, but to cars as well. You see, fuel isn't the only thing the engine needs to make the car move. The combustion mixture fed to the engine in order to produce power is a combination of air and fuel. The engine control unit (ECU) is responsible for determining the amount of fuel to be mixed with the air entering the throttle, keeping the mixture as balanced as possible. This helps your car's engine remain fuel-efficient and your car's exhaust emissions in check. To do its functions properly, the ECU depends largely on air volume readings sent by the mass air flow sensor.

CRS MAF sensors have flow direction detection designed for load measurement on both gas and diesel engines.

MAF sensor from CRS is a thermal flow sensor. The sensor element with its temperature sensors and the heating area is exposed to the air mass flow to be measured. A parts of the flow from the measurement pipe is guided past the sensor element through a measurement channel on the plug-in sensor housing. The volume of air passing over the heating area is measured in relation to the change temperature. The greater the change, the more air flow is present. The information from these mass air flow sensors is sent to the ECU, which then calculates how much fuel should be mixed with the air volume present in the throttle.

ADVANTAGES:

- 1) All of the chips such as SCM and thermistors are selected from Microchip, Heraeus and other world's top suppliers for electronic elements to ensure stable and precise performance.
- 2) Reliable & independently designed calibration equipment and strict process-control in TS16949 manufacturing environment contribute to a low defective rate and long operational life.
- 3) The most advanced equipment such as a fully automatic SMT mounter, a high & low temperature test box, and aging-test equipment are used in production to eliminate manufacturing defects.
- 4) Our factory proprietary injection molding machine uses premium PBT material, which manufactures components that meet or exceed OE specifications.
- 5) Our dust free, anti-static, constant temperature manufacturing environment are of vital importance to ensure exacting production results.



**Your global source of quality
OE replacement parts**

Check out the collection of replacement air intake parts we offer.