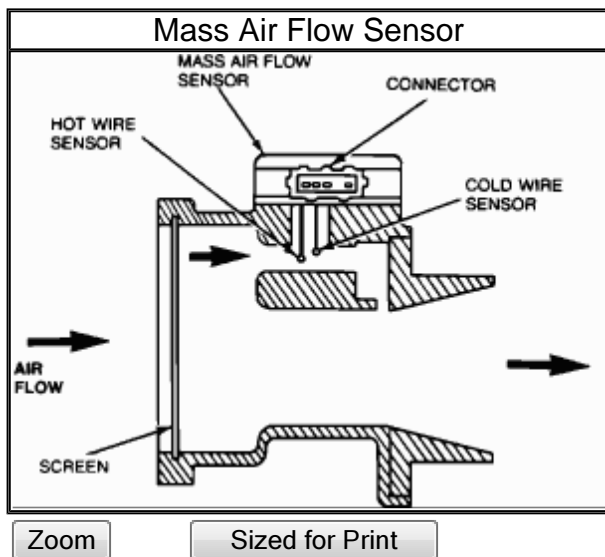


1992 Ford Mustang V8-302 5.0L HO

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Description and Operation**PURPOSE**

The Mass Air Flow (**MAF**) sensor directly measures the mass of air flowing into the engine.

LOCATION

Between the air filter housing and throttle body assembly.

CONSTRUCTION

The sensing element is a thin platinum wire wound on a ceramic bobbin and coated with glass.

OPERATION

The MAF operates on the principle that if a mass is maintained at a constant temperature above ambient, the thermal loss is proportional to the mass flow of the cooling medium it is subjected to.

The sensor output is a DC (analog) signal ranging from 0.5 to 5.0 volts used by the Electronic Control Assembly (**ECA**) to calculate fuel injector pulse width for stoichiometry (14.7 to 1). The "hot wire" is maintained at 392°F (200°C) above

ambient temperature as measured by a constant "cold wire".

The lower the signal, the less airflow into the engine. The higher the signal, the greater the amount of airflow into the engine.

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