

MASS AIR FLOW (MAF) SENSOR [SKYACTIV-D 2.2]

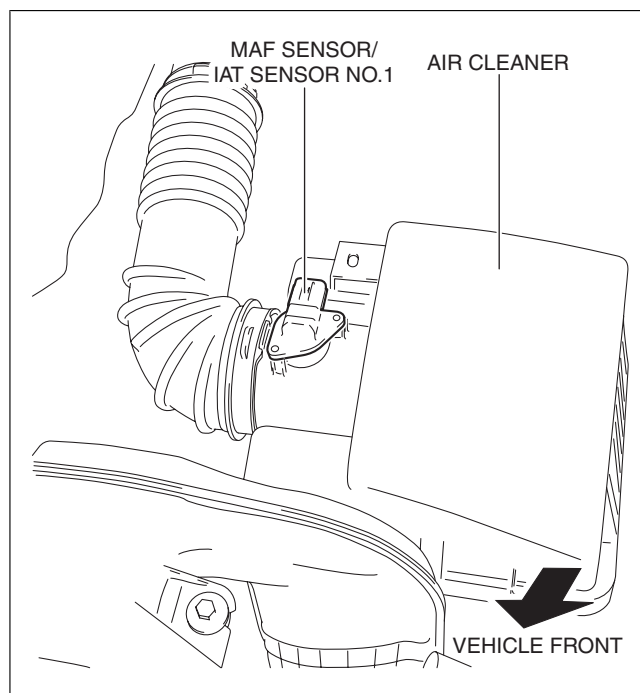
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Purpose/Function

- Detects the intake airflow amount after it passes through the air cleaner as basic information for mainly determining the fuel injection amount.
- Detects the intake airflow amount after it passes through the air cleaner and sends to the PCM as an intake airflow amount signal.

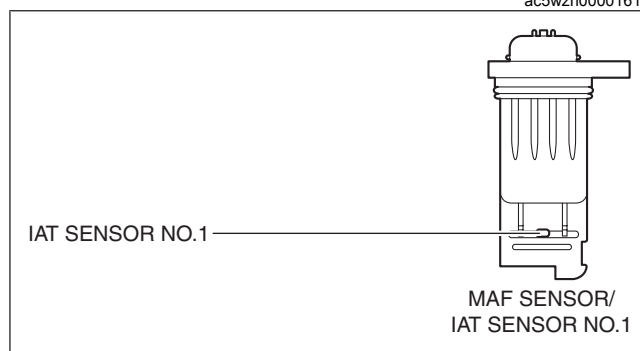
Construction

- Installed on the air cleaner.
- A hot film has been adopted as the detecting element for detecting the intake airflow amount.



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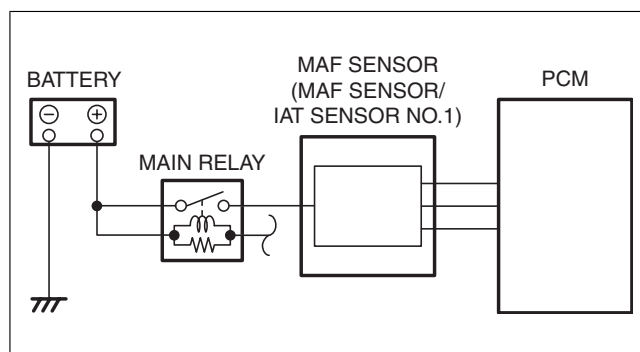
- IAT sensor No.1 is integrated.



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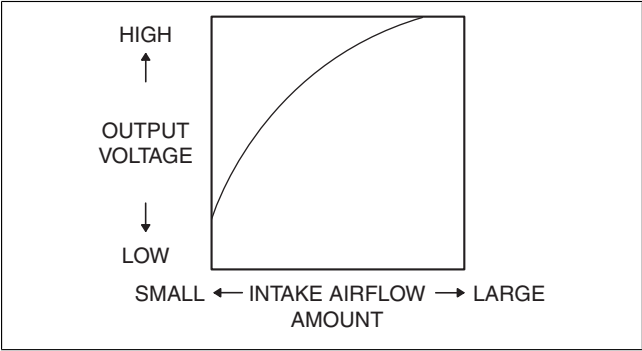
Operation

- Sends the signal, which fluctuates according to the intake airflow amount, to the PCM.



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MAF sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P0102:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the EGR control.• Inhibits the diesel particulate filter regeneration control.• The fast idle up correction for the idle speed control is inhibited.• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.
P0103:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the EGR control.• Inhibits the diesel particulate filter regeneration control.• The fast idle up correction for the idle speed control is inhibited.• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.