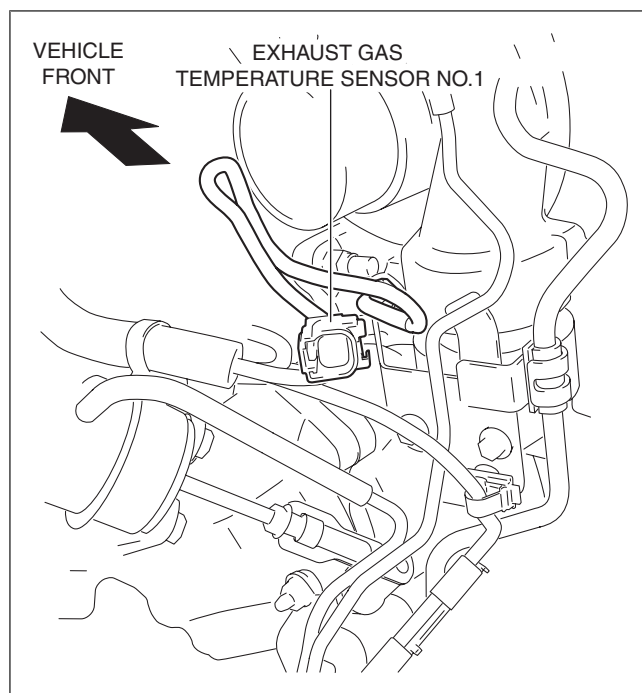## EXHAUST GAS TEMPERATURE SENSOR [SKYACTIV-D 2.2]

Exhaust Gas Temperature Sensor No.1
Purpose/Function
- Detects the exhaust gas temperature before it passes through the turbocharger as basic information for mainly determining the fuel injection amount, EGR control, and boost control.
- Detects the exhaust gas temperature before it passes through the turbocharger and sends it to the PCM as an exhaust gas temperature signal.
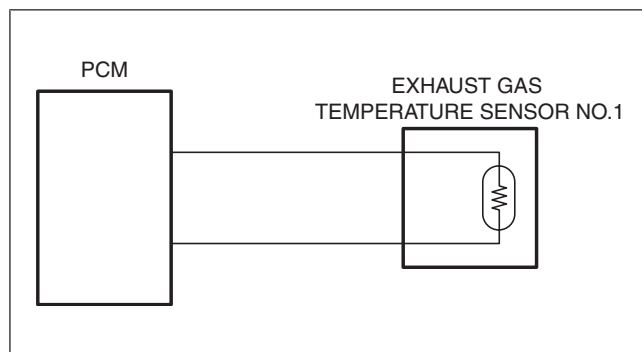
Construction
- Installed on the turbocharger.
- A thermistor has been adopted as the detecting element for detecting the exhaust gas temperature.
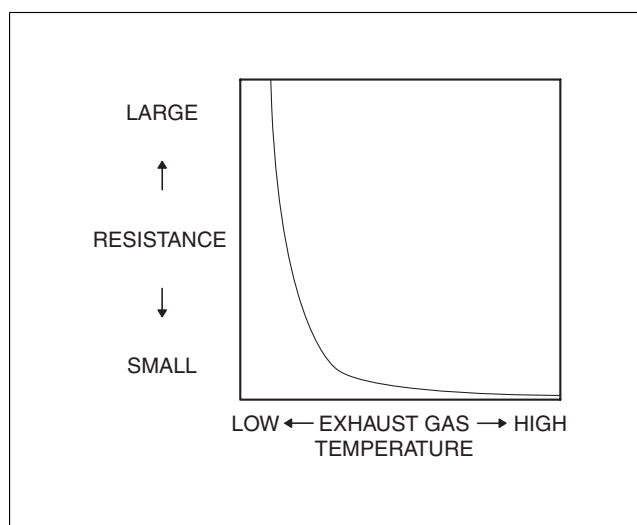

ac5jjn00001469

Operation
- Sends the signal, which fluctuates according to the exhaust gas temperature before it passes through the turbocharger, to the PCM.

ac5wzn00002565

Exhaust gas temperature sensor No.1 characteristic

LARGE

↑

RESISTANCE

↓

SMALL

LOW ← EXHAUST GAS → HIGH
TEMPERATURE

ac5wzn00002614

Fail-safe

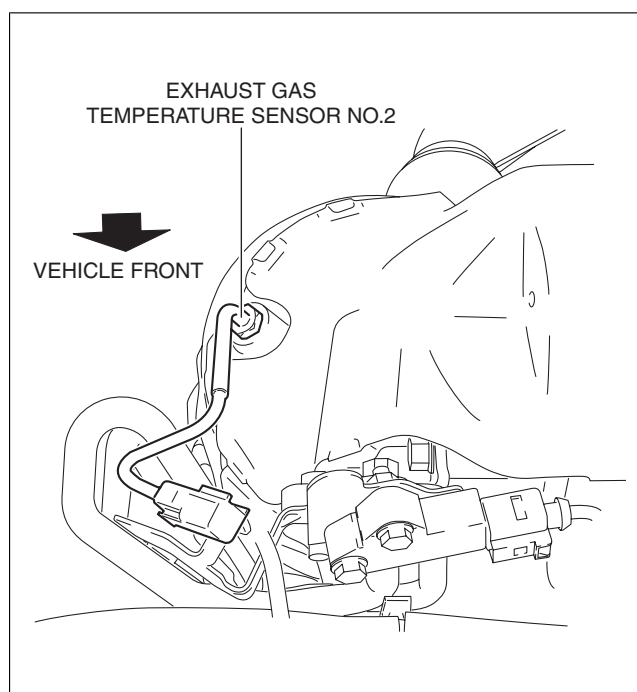| DTC No.	Fail-safe function
P0545:00	• Inhibits the two-stage turbo control. • Inhibits the EGR control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits engine-stop by operating the i-stop function.
P0546:00	• Inhibits the two-stage turbo control. • Inhibits the EGR control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits engine-stop by operating the i-stop function.

Exhaust Gas Temperature Sensor No.2
Purpose/Function
- Detects the exhaust gas temperature before it passes through the catalytic converter as basic information for mainly determining the fuel injection amount, diesel particulate filter control, and boost control.
- Detects the exhaust gas temperature before it passes through the catalytic converter and sends it to the PCM as an exhaust gas temperature signal.
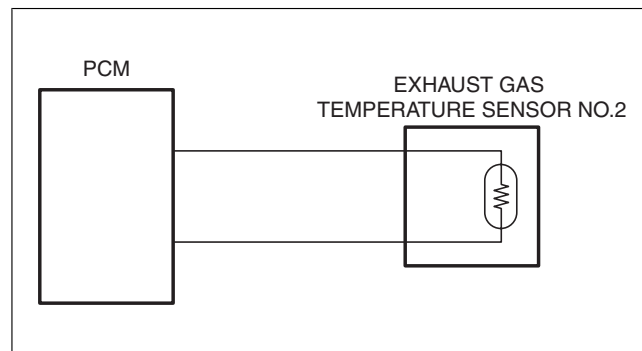
Construction
- Installed on the catalytic converter.
- A thermistor has been adopted as the detecting element for detecting the exhaust gas temperature.

EXHAUST GAS
TEMPERATURE SENSOR NO.2
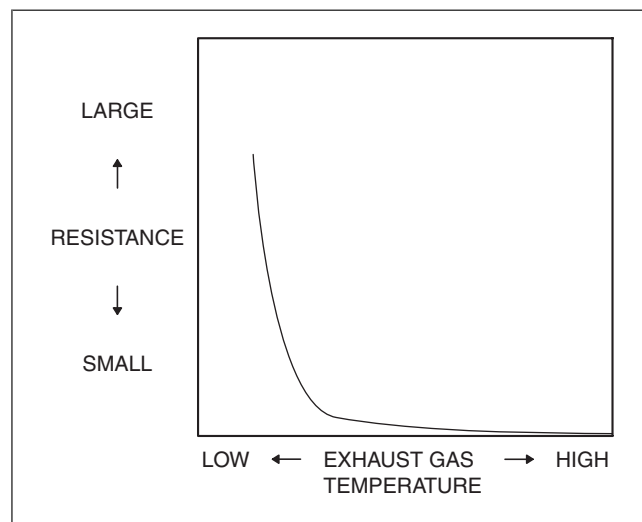
VEHICLE FRONT

ac5wzn00002567

Operation
- Sends the signal, which fluctuates according to the exhaust gas temperature before it passes through the catalytic converter, to the PCM.

ac5wzn00002568

Exhaust gas temperature sensor No.2 characteristic

ac5jjn00001430

Fail-safe

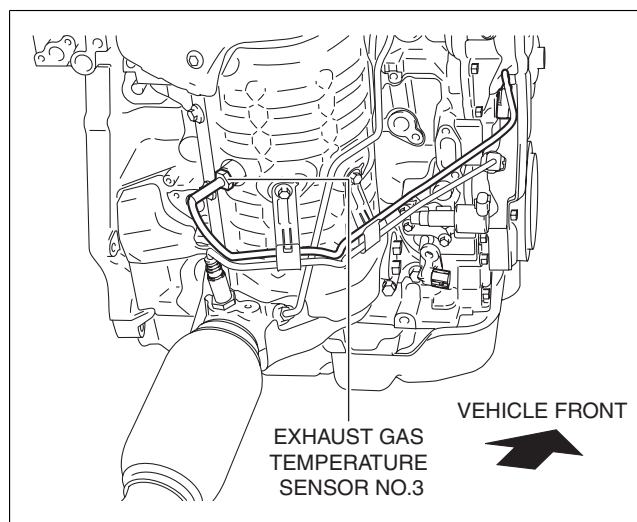| DTC No.	Fail-safe function
P2032:00	• PCM restricts engine torque. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.
P2033:00	• 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.

Exhaust Gas Temperature Sensor No.3
Purpose/Function
- Detects the exhaust gas temperature after it passes through the catalytic converter as basic information for mainly diesel particulate filter control.
- Detects the exhaust gas temperature after it passes through the catalytic converter and sends it to the PCM as an exhaust gas temperature signal.
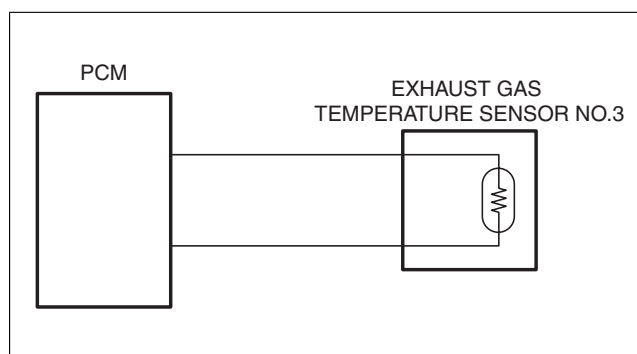
Construction
- Installed on the catalytic converter.
- A thermistor has been adopted as the detecting element for detecting the exhaust gas temperature.

EXHAUST GAS
TEMPERATURE
SENSOR NO.3

VEHICLE FRONT

ac5wzn00002569

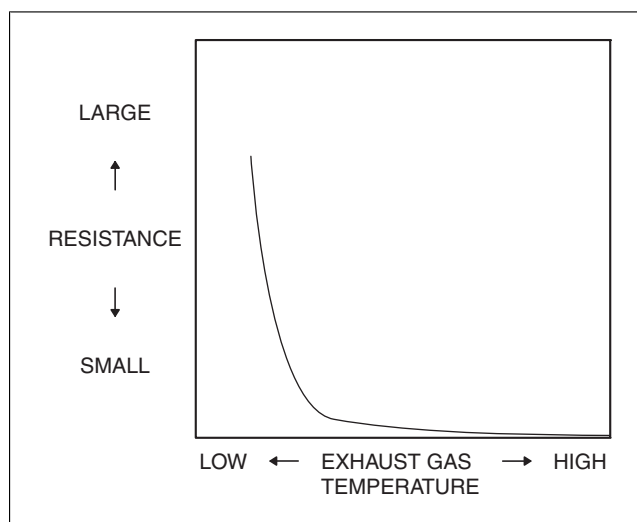## Operation
- Sends the signal, which fluctuates according to the exhaust gas temperature after it passes through the catalytic converter, to the PCM.

PCM

EXHAUST GAS
TEMPERATURE SENSOR NO.3

ac5wzn00002570

Exhaust gas temperature sensor No.3 characteristic

LARGE

↑

RESISTANCE

↓

SMALL

LOW ← EXHAUST GAS → HIGH
TEMPERATURE

ac5jjn00001474

Fail-safe

DTC No.	Fail-safe function
P242C:00	• PCM restricts engine torque. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.

DTC No.	Fail-safe function
P242D:00	• PCM restricts engine torque. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.