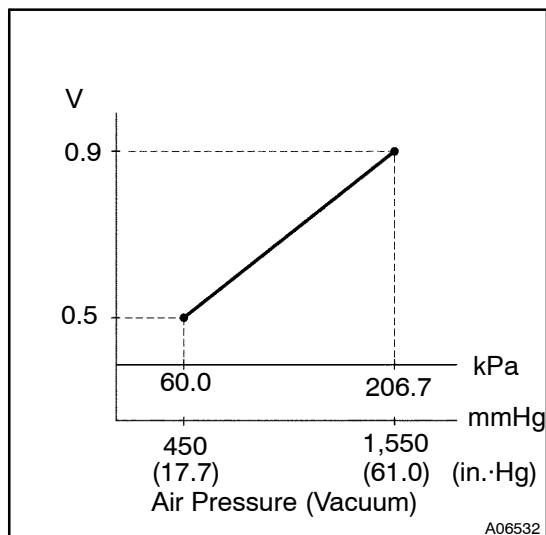


DTC	35	Intake Air Pressure Sensor Circuit Malfunction
------------	-----------	---

CIRCUIT DESCRIPTION



The intake air pressure sensor generates voltage by the vacuum value as shown in the illustration. This voltage of the intake air pressure sensor is one of the factors to decide the injection volume and injection timing.

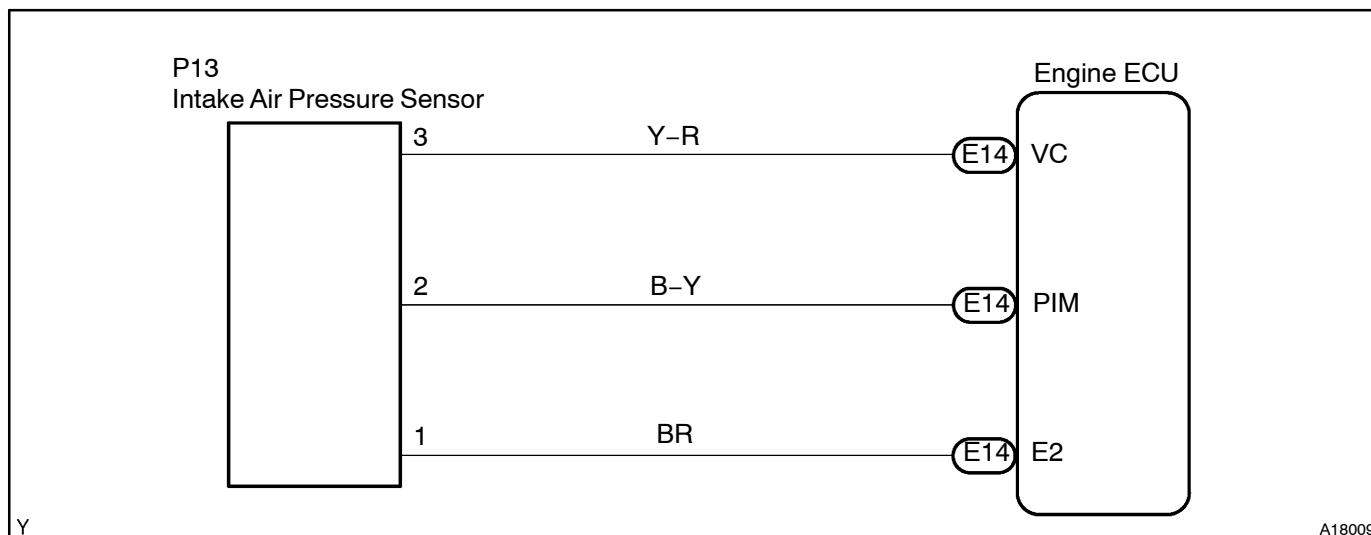
DTC No.	DTC Detecting Condition	Trouble Area
35	Open or short in intake air pressure sensor circuit for 2 sec. or more	• Open or short in intake air pressure sensor circuit • Intake air pressure sensor • Engine ECU

HINT:

After confirming DTC 35, use the hand-held tester to confirm the air cleaner pressure from CURRENT DATA.

Intake manifold pressure (kPa)	Malfunction
Approx. 0	• PIM circuit short
192 or more	• VC circuit open or short • PIM circuit open • E2 circuit open

WIRING DIAGRAM



A18009

INSPECTION PROCEDURE

HINT:

If DTC 22, 24, 35 and 39 are output simultaneously, E2 (sensor ground) may be open.

When using hand-held tester

1 Read value of air cleaner pressure on hand held tester.

OK:

The same value as the atmospheric pressure.

OK

Repair or replace connection of the vacuum hose.

NG

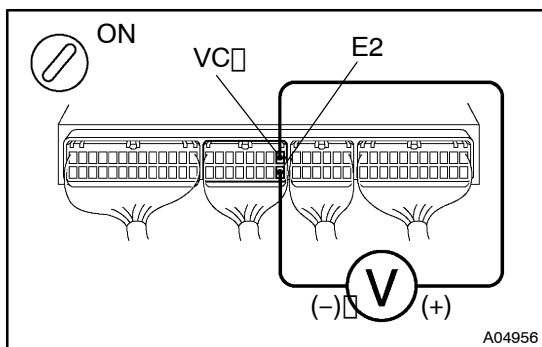
2 Check intake air pressure sensor (See page ED-14).

NG

Replace intake air pressure sensor.

OK

3 Check voltage between terminals VC and E2 of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals VC and E2 of the engine ECU.

OK:

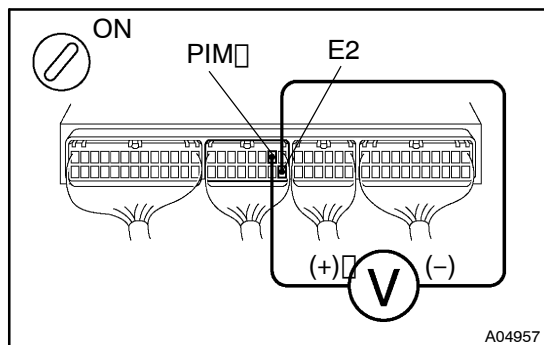
Voltage: 4.5 – 5.5 V

NG

Check and replace engine ECU (See page IN-19).

OK

4 Check voltage between terminals PIM and E2 of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals PIM and E2 of the engine ECU.

OK:

Voltage: 1.0 – 2.2 V

OK

Check and replace engine ECU
(See page IN-19).

NG

Check for open and short in harness and connector between engine ECU and intake air pressure sensor (See page IN-19).

OK

Replace intake air pressure sensor.

When not using hand-held tester

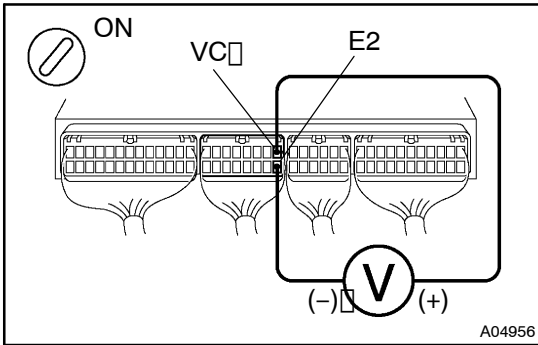
1 Check intake air pressure sensor (See ED-14).

NG

Replace intake air pressure sensor.

OK

2 Check voltage between terminals VC and E2 of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals VC and E2 of the engine ECU.

OK:

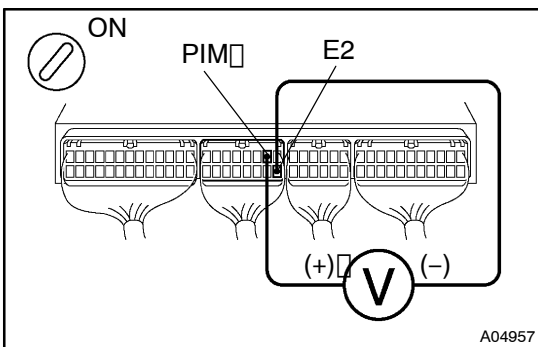
Voltage: 4.5 – 5.5V

NG

Check and replace engine ECU
(See page IN-19)

OK

3 Check voltage between terminals PIM and E2 of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals PIM and E2 of the engine ECU.

OK:

Voltage: 1.0 – 2.2V

OK

Check and replace engine ECU
(See page IN-19)

NG

4 Check for open and short in harness and connector between engine ECU and intake air pressure sensor (See page IN-19).

NG

Repair or replace harness or connector.

OK

Replace intake air pressure sensor.