

DTC 35 Turbo Pressure Sensor Circuit Barometric Pressure (BARO) Sensor Circuit

CIRCUIT DESCRIPTION

Hint DTC 35 is used to indicate malfunctions in the turbo pressure sensor circuit or BARO sensor circuit.

1. TURBO PRESSURE SENSOR

This sensor detects the air intake chamber pressure and converts the pressure reading into a voltage which is used to control the turbo pressure by the ECM.

If the ECM detects the below diagnosis conditions, it operates the fail safe function in which the ECM stops fuel injection at engine speed 2,400 rpm or more and throttle opening angle 20° or more.

DTC No.	Circuit	Diagnostic Trouble Code Detecting Condition	Trouble Area
35	Turbo Pressure Sensor	Open or short in turbo pressure sensor circuit for 0.5 sec. or more.	<ul style="list-style-type: none"> • Open or short in turbo pressure sensor circuit. • Turbo pressure sensor • ECM

2. BARO SENSOR

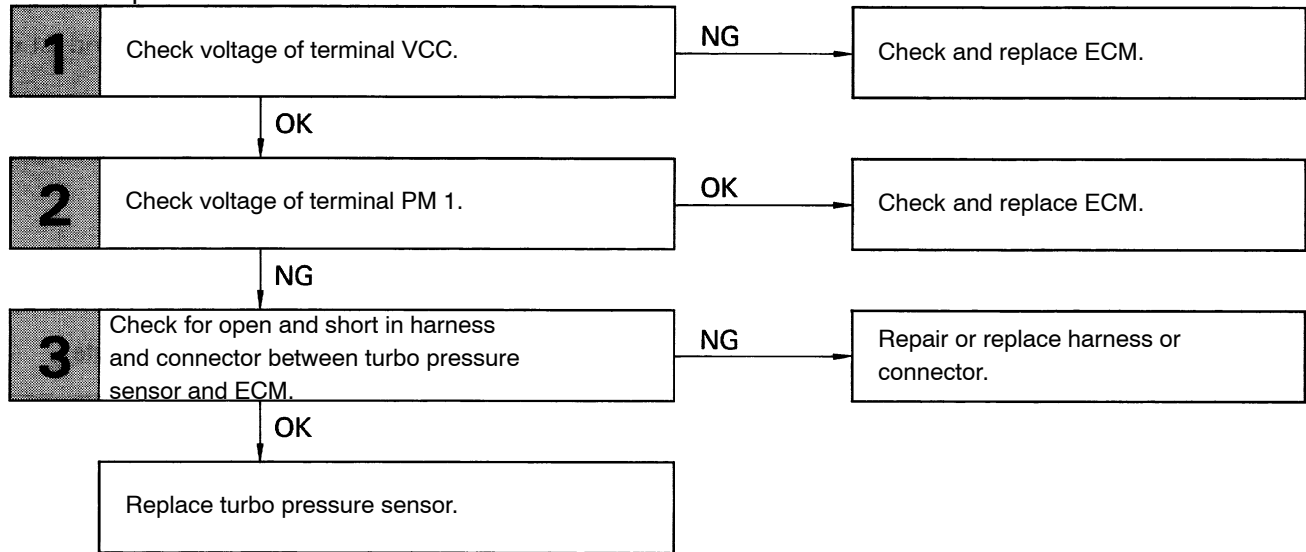
This sensor is built into the ECM. It is used to detect the atmospheric (absolute) pressure and outputs corresponding electrical signals. Fluctuations in the air pressure cause changes in the intake air density which can cause deviations in the air-fuel ratio. The signals from BARO sensor are used to make corrections for the fluctuations. If the ECM detects the below diagnosis conditions, it operates the fail safe function in which the atmospheric pressure is assumed to be 101.3 kPa (1.03 kgf/cm², 14.7 psi).

DTC No.	Circuit	Diagnostic Trouble Code Detecting Condition	Trouble Area
35	BARO Sensor	Open or short in BARO sensor circuit for 0.5 sec. or more.	<ul style="list-style-type: none"> • ECM

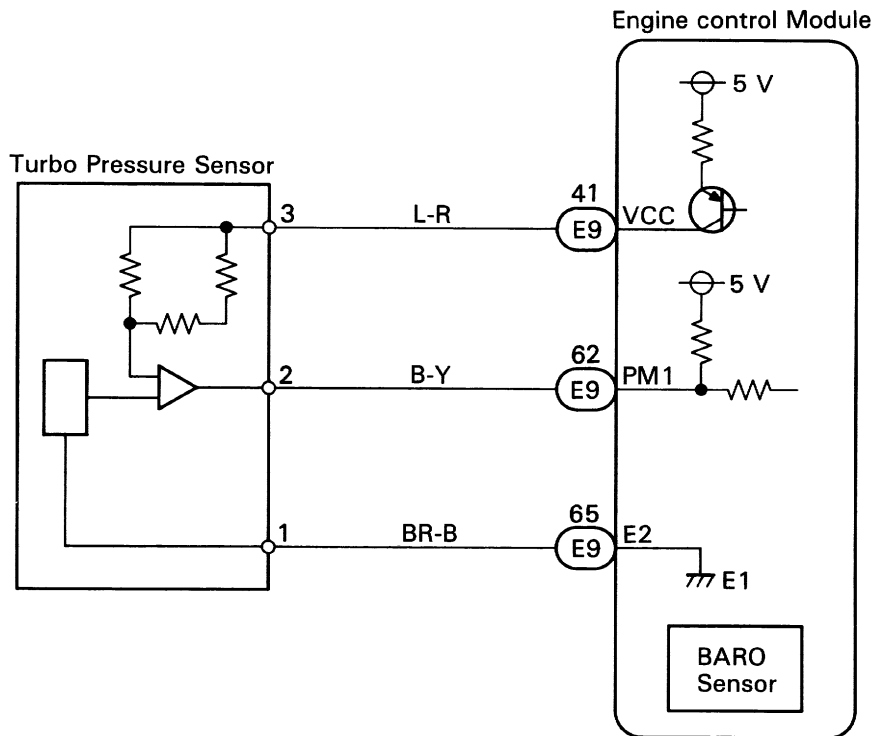
DIAGNOSTIC CHART

Hint DTC 35 indicates trouble in the BARO sensor circuit or turbo pressure sensor circuit. Because all functions of the BARO sensor circuit are built into the ECM, it is not possible to check this circuit.

However, if no problem is found in the turbo pressure sensor circuit, it can be concluded that the problem is in the BARO sensor circuit.



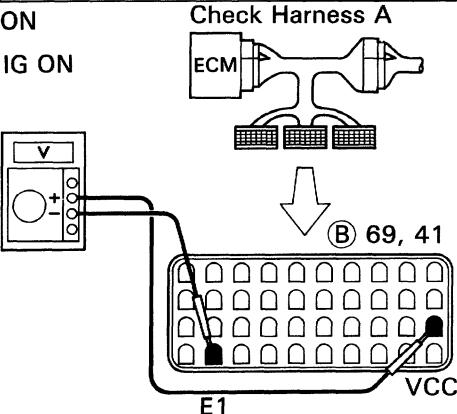
WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals VCC and E 1 of engine control module connector.

ON
IG ON



BE6653
FI6508

OK

P (1) Connect the Check Harness A (See page [EG-800](#)).
(2) Turn ignition switch on.

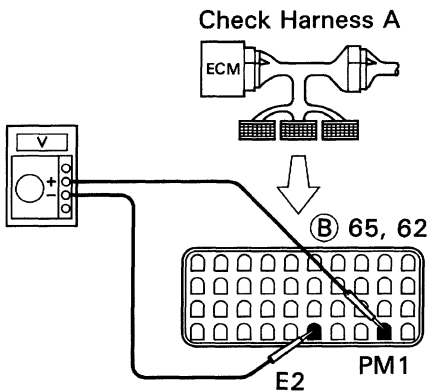
C Measure voltage between terminals VCC and E 1 of engine control module.

OK Voltage: 4.5 - 5.5 V

NG Check and replace engine control module.

2 Check voltage between terminals PM 1 and E2 of engine control module.

ON
IG ON



BE6653
FI6954

NG

P Turn ignition switch on.

C Measure voltage between terminals PM 1 and E2 of engine control module.

OK Voltage: 2.3 - 3.0 V

OK Check and replace engine control module.

3 Check for open and short in harness and connector between engine control module and turbo pressure sensor (See page [IN-35](#)).

OK

NG Repair or replace harness or connector.

Replace turbo pressure sensor.

- MEMO -