

DTC	24	Intake Air Temp. Sensor Circuit
------------	-----------	--

— CIRCUIT DESCRIPTION —

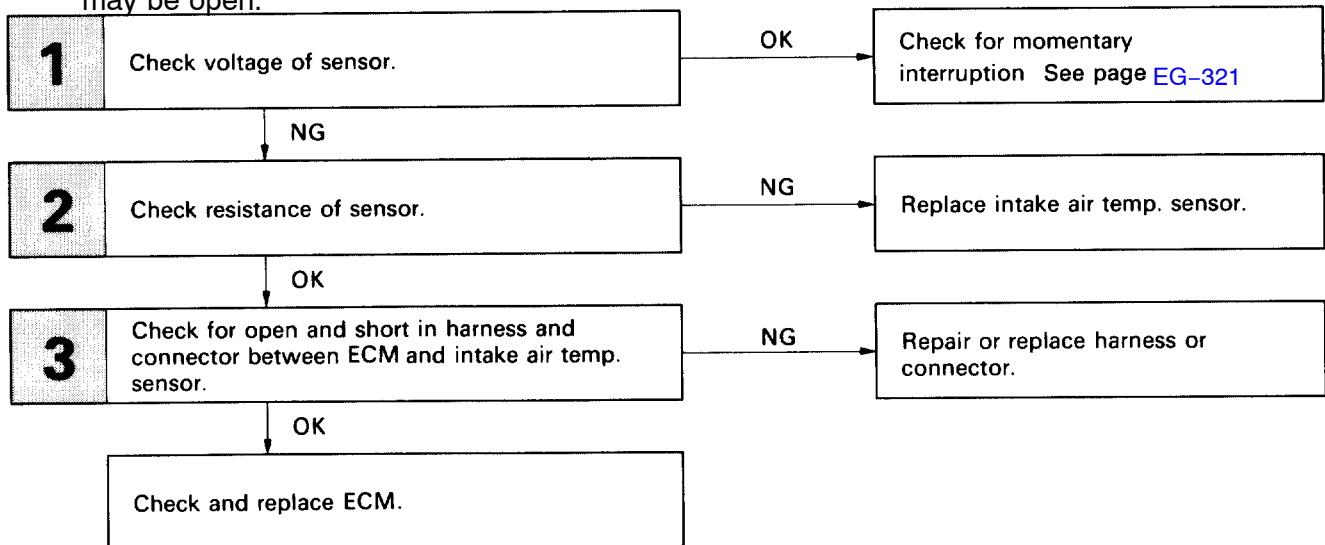
The intake air temp. sensor is built into the volume air flow meter and senses the intake air temperature. The structure of the sensor and connection to the ECM is the same as in the engine coolant temp. sensor shown on page EG-360.

If the ECM detects the diagnostic trouble code “24”, it operates the fail safe function in which the intake air temperature is assumed to be 20°C (68°F).

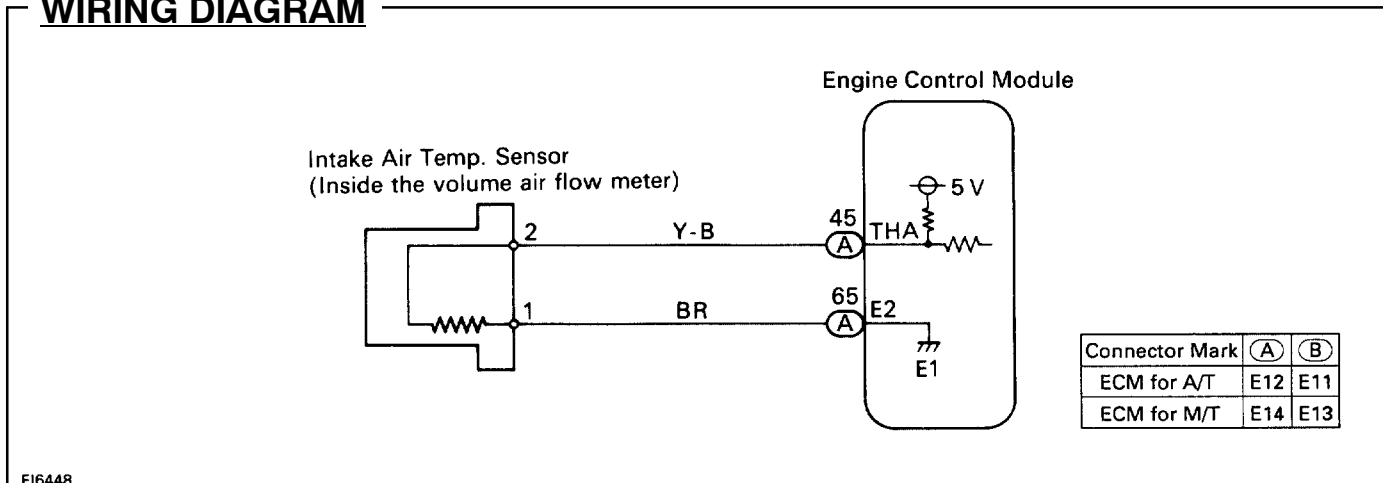
DTC No.	Diagnostic Trouble Code Detecting Condition	Trouble Area
24	Open or short in intake air temp. sensor circuit for 0.5 sec. or more.	<ul style="list-style-type: none"> Open or short in intake air temp. sensor circuit. Intake air temp. sensor ECM

— DIAGNOSTIC CHART —

HINT: If diagnostic trouble code “22” (engine coolant temperature sensor circuit), “24” (intake air temperature sensor circuit) and “41” (throttle position sensor circuit) are output simultaneously, E2 (sensor ground) may be open.

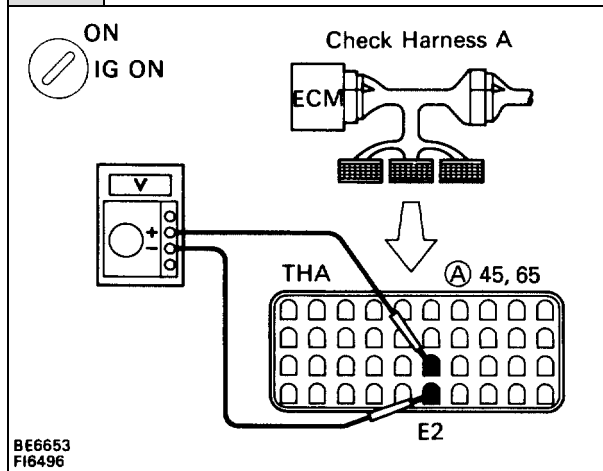


WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals THA and E2 of engine control module connector.



- P** 1. Connect the Check Harness A. (See page EG-328)
2. Turn ignition switch on.

C Measure voltage between terminals THA and E2 of engine control module connector.

OK

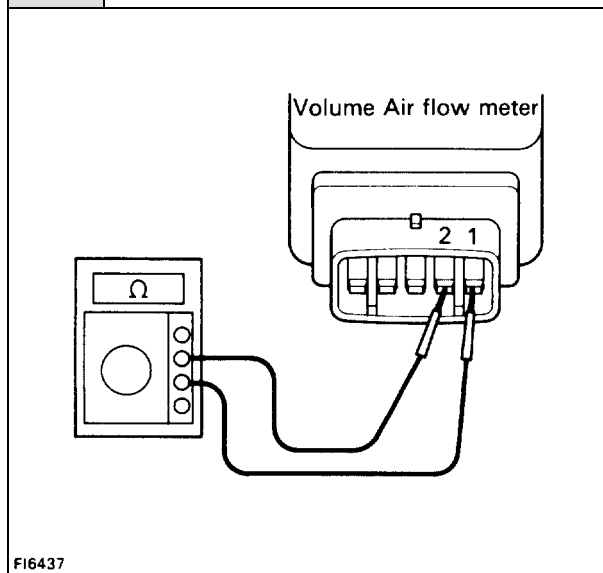
Intake air temp. °C (°F)	Voltage
20 (68)	0.5 ~ 3.4 V
60 (140)	0.2 ~ 1.0 V

NG

OK

Check for momentary interruption (See page EG-321).

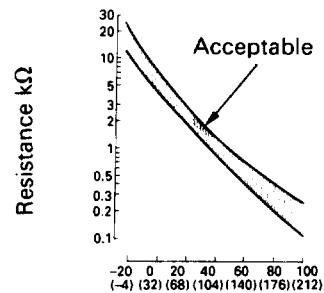
2 Check intake air temp. sensor.



P Disconnect the volume air flow meter connector.

C Measure resistance between terminals 1 and 2 of volume air flow meter connector.

OK Resistance is within Acceptable Zone on chart.



Intake air temp. °C (°F)	Resistance
20 (68)	2 - 3 kΩ
60 (140)	0.4 - 0.7 kΩ

OK

NG

Replace intake air temp. sensor (Replace volume air flow meter).

3 Check for open and short in harness and connector between engine control module and intake air temp. sensor (See page IN-33).

OK

NG

Repair or replace harness or connector.

Check and replace engine control module.