

<b>DTC</b>	<b>P0402</b>	<b>Exhaust Gas Recirculation Flow Excessive Detected</b>
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## CIRCUIT DESCRIPTION

Refer To Exhaust Gas Recirculation Flow Insufficient Detected on page [DI-219](#).

DTC No.	DTC Detecting Condition	Trouble Area
P0402	EGR gas temp. sensor value is high during EGR cut-off when engine is cold (2 trip detection logic)	<ul style="list-style-type: none"> <li>• EGR valve stuck open</li> <li>• Short in EGR gas temp. sensor circuit</li> <li>• EGR step motor circuit</li> <li>• ECM</li> </ul>

See DTC P0401 for System Check Driving Pattern and Wiring Diagram.

## INSPECTION PROCEDURE

### LEXUS hand-held tester

<b>1</b>	<b>Connect the LEXUS hand-held tester and read EGR gas temperature value.</b>
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#### PREPARATION:

- Connect the LEXUS hand-held tester to the DLC3.
- Turn ignition switch ON and LEXUS hand-held tester main switch ON.

#### CHECK:

Read EGR gas temperature on the LEXUS hand-held tester.

#### OK:

**EGR gas temp.: 150°C (302°F) or less (Not immediately after driving).**

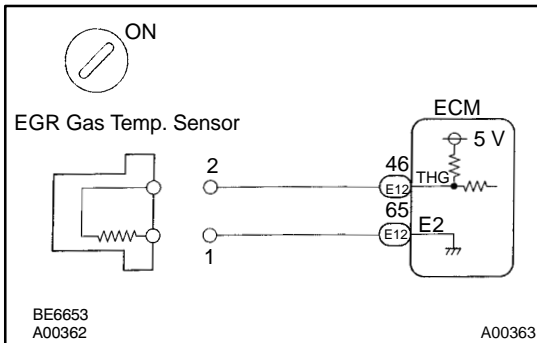
#### HINT:

If there is a short circuit, the LEXUS hand-held tester indicates 159.3°C (318.7°F).

**OK**

**Go to step 4.**

**NG**

**2 Check for short in harness and ECM.****PREPARATION:**

Disconnect the EGR gas temperature sensor connector.

**CHECK:**

Read EGR gas temperature on the LEXUS hand-held tester.

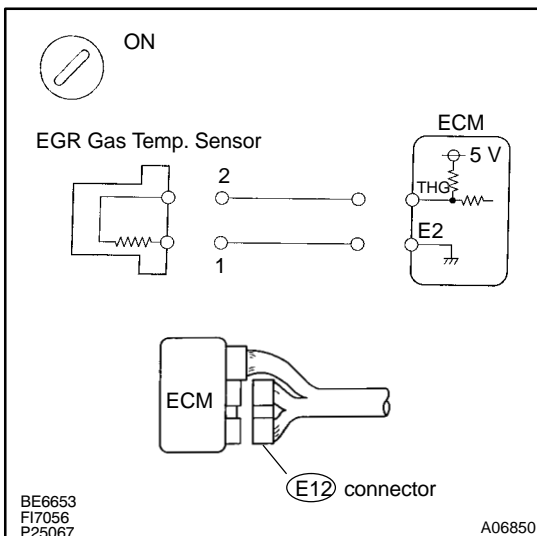
**OK:**

EGR gas temp.: 3.1°C (37.6°F)

OK

Replace EGR gas temp. sensor.

NG

**3 Check for short in harness or ECM.****PREPARATION:**

(a) Disconnect ECM E12 connector.

**HINT:**

EGR gas temp. sensor is disconnected.

(b) Turn ignition switch ON.

**CHECK:**

Read EGR gas temp. on the LEXUS hand-held tester.

**OK:**

EGR gas temp.: 3.1°C (37.6°F)

OK

Repair or replace harness or connector.

NG

Check and replace ECM (See page [IN-29](#)).

**4** Check operation for EGR valve (See page EC-11).

OK

Replace EGR valve.

NG

Check and replace ECM (See page [IN-29](#)).

### OBDII scan tool (excluding LEXUS hand-held tester)

**1** Check resistance of EGR gas temp. sensor (See page SF-63).

NG

Replace EGR gas temp. sensor.

OK

**2** Check for open and short in harness and connector between EGR gas temp. sensor and ECM (See page [IN-29](#)).

NG

Repair or replace harness or connector.

OK

**3** Check operation for EGR valve (See page EC-11).

NG

Replace EGR valve.

OK

Check and replace ECM (See page [IN-29](#)).