DTC P0161/28 OXYGEN SENSOR HEATER CIRCUIT MALFUNCTION BANK 2 SENSOR 2)

## **CIRCUIT** DESCRIPTION

Refer To DTC P0136 pn page 05-339.

DTC[No.	DTC[Detecting[Condition	Trouble[ <b>A</b> rea
P0141/27 P0161/28	(2) tripi detection (logic)	Open@r[short[]n[heater@ircuit@f@xygen[sensor Oxygen[sensor[heater ECM

### HINT:

- Bank [] [refers [to [the [bank [that [includes [cylinder [No. []]]]]]]
- Bank 2 refers to the bank that does not include cylinder No. 1.
- Sensor [] [refers [to [the [sensor closer [to [the [engine [body.
- Sensor[2][refers[10]]he[sensor[1]arther[away[1]rom[1]he[engine[body.

## WIRING DIAGRAM

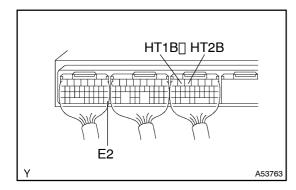
Refer To DTC P0136 on page 05-339.

# **INSPECTION PROCEDURE**

### HINT:

Read freeze frame data using frand-held tester. Because freeze frame freeze frame from the frankfunction from the frankfunction frankfunction from the frankfunction frank

#### 1 INSPECT ECM



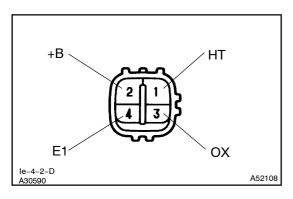
- (a) Turn the ignition switch ON.
- (b) Measure voltage between the terminals HT1B, HT2B and E2 of the ECM connector.

Voltage: 9 - 14 V



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### 2 INSPECT OXYGEN NO.2 SENSOR



- (a) Disconnect the oxygen sensor connector.
- (b) Measure resistance between the terminals HT and +B of the oxygen sensor.

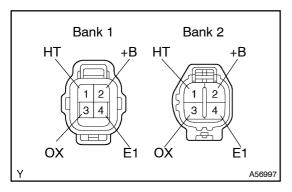
Resistance: 11 – 16  $\Omega$  (20°C)

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**REPLACE OXYGEN NO.2 SENSOR** 



### 3 CHECK HARNESS AND CONNECTOR(ECM – OXYGEN SENSOR)

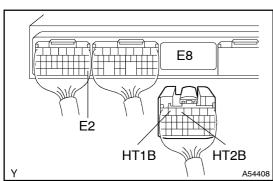


- (a) Disconnect the oxygen sensor connector.
- (b) Disconnect the ECM E8 connector.
- (c) Check for open between the terminals HT of the oxygen sensor connector and HT1B, HT2B of the ECM connector.

Resistance: 1  $\Omega$  or less

(d) Check for short between the terminals HT1B, HT2B and E2 of the ECM connector.

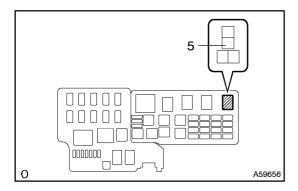
Resistance: 1 M $\Omega$  or more

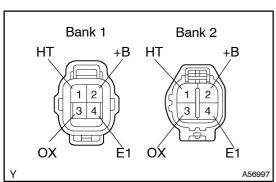


NG REPAIR OR REPLACE HARNESS AND CONNECTOR

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## 4 CHECK HARNESS AND CONNECTOR(OXYGEN SENSOR – E.F.I. ECU RELAY)





- (a) Disconnect the battery negative (-) terminal.
- (b) Disconnect the oxygen sensor connector.
- (c) Check for open between the terminals 5 of the E.F.I. ECU relay side connector and +B of the oxygen sensor connector.

Resistance: 1  $\Omega$  or less

#### NOTICE:

Do not insert the tester leads hard in the procedure (c), or the holder may be damaged.

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

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### **CHECK FOR ECM POWER SOURCE CIRCUIT**