

<b>DTC</b>	<b>P1135</b>	<b>A/F Sensor Heater Circuit Malfunction (Bank 1 Sensor 1) (California Spec.)</b>
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**CIRCUIT DESCRIPTION**

Refer to DTC P0125 on page [DI-42](#) .

DTC No.	DTC Detecting Condition	Trouble Area
P1135	When heater operates, heater current exceeds 8 A (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Open or short in heater circuit of A/F sensor</li> <li>• A/F sensor heater</li> <li>• ECM</li> </ul>
	Heater current of 0.25 A or less when heater operates (2 trip detection logic)	

**WIRING DIAGRAM**

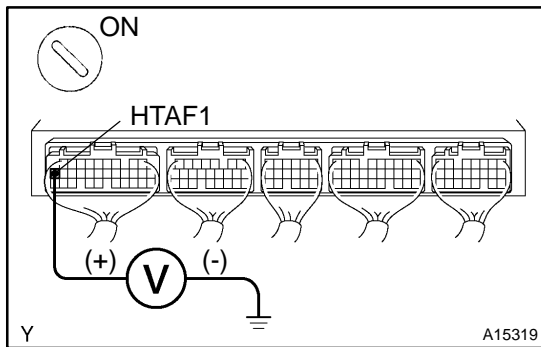
Refer to DTC P0125 on page [DI-42](#) .

**INSPECTION PROCEDURE**

**HINT:**

Read freeze frame data using the TOYOTA hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

<b>1</b>	<b>Check voltage between terminal HTAF of ECM connector and body ground.</b>
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**PREPARATION:**

- (a) Remove the glove compartment (See page [SF-53](#) ).
- (b) Turn the ignition switch ON.

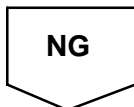
**CHECK:**

Measure the voltage between terminals HTAF of the ECM connector and body ground.

**OK:**

**Voltage: 9 - 14 V**

<b>OK</b>	<b>Check and replace ECM (See page <a href="#">IN-28</a> ).</b>
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<b>2</b>	<b>Check resistance of A/F sensor heater (See page <a href="#">SF-51</a> ).</b>
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<b>NG</b>	<b>Replace A/F sensor.</b>
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**Check and repair harness or connector between EFI main relay (Marking: EFI) and A/F sensor, and A/F sensor and ECM (See page [IN-28](#)).**