

<b>DTC</b>	<b>P2121</b>	<b>Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance</b>
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**CIRCUIT DESCRIPTION**

HINT:

This is repair procedure of "accelerator pedal position sensor".

Refer to DTC P2120 on page [DI-412](#).

DTC No.	DTC Detection Condition	Trouble Area
P2121	Condition (a) and (b) continues for 2.0 seconds: (a) Difference between VPA and VPA2 exceeds the threshold (b) Idle is OFF	• Accelerator pedal position sensor

**INSPECTION PROCEDURE**

HINT:

- If different DTCs that are related to different systems are output simultaneously while terminal E2 is used as a ground terminal, terminal E2 may be open.
- Read freeze frame data using the hand-held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a 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.

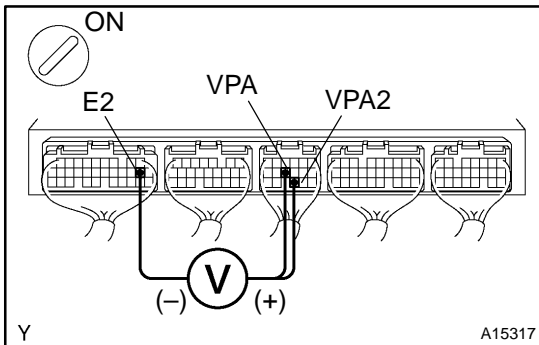
<b>1</b>	<b>Check accelerator pedal position sensor (See page <a href="#">SF-28</a>).</b>
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Replace accelerator pedal position sensor (See page [SF-30](#)).

OK

<b>2</b>	<b>Check voltage between terminals VPA and E2, and VPA2 and E2 of ECM connector.</b>
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**PREPARATION:**

- (a) Remove the glove compartment (See page [SF-63](#)).
- (b) Turn the ignition switch ON.

**CHECK:**

Measure the voltage between terminals VPA and E2, and VPA2 and E2 of the ECM connectors.

**OK:**

Accelerator pedal	Voltage	
	VPA - E2	VPA2 - E2
Released	0.3 - 0.9 V	1.8 - 2.7 V
Depressed	3.2 - 4.8 V	4.7 - 5.1 V

OK

Check and replace ECM (See page [IN-28](#)).

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3

Check for open and short in harness and connector in VC VPA, VPA2 and E2 circuits between ECM and accelerator pedal sensor (See page [IN-28](#)).

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Repair or replace harness or connector.

OK

Check and replace accelerator pedal position sensor (See page [SF-30](#)).