

DTC	P1121	ACCELERATOR PEDAL POSITION SENSOR RANGE/PERFORMANCE PROBLEM
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CIRCUIT DESCRIPTION

Refer to DTC P1120 on page 05-120 .

DTC No.	DTC Detection Condition	Trouble Area
P1121	Condition (a) continues for 2.0 seconds: (IDL ON: 10 seconds) (a) Difference between VPA and VPA2 is out of threshold (b) IDL is OFF	- Accelerator pedal position sensor - ECM

WIRING DIAGRAM

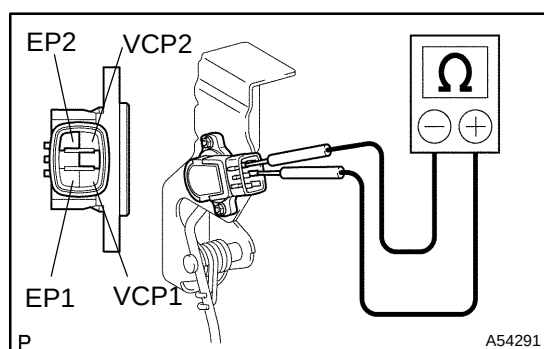
Refer to DTC P1120 on page 05-120 .

INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand-held tester or 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.

1 INSPECT ACCELERATOR PEDAL ASSY(POSITION SENSOR)



- Disconnect the accelerator pedal position sensor connector.
- Using an ohmmeter, measure the resistance between each terminals.

Resistance: at 20°C (68°F)

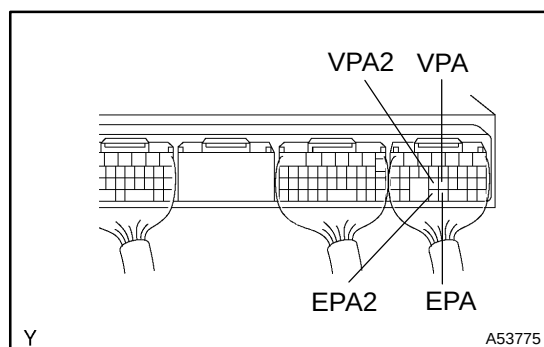
Terminals	Resistance
VCP1 - EP1 VCP2 - EP2	2.25 - 4.75 kΩ

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Go to step 3

OK

2 INSPECT ECM(VPA - EPA, VPA2 - EPA2)



- Measure the voltage between terminals VPA and EPA, and VPA2 and EPA2 of the ECM connector.

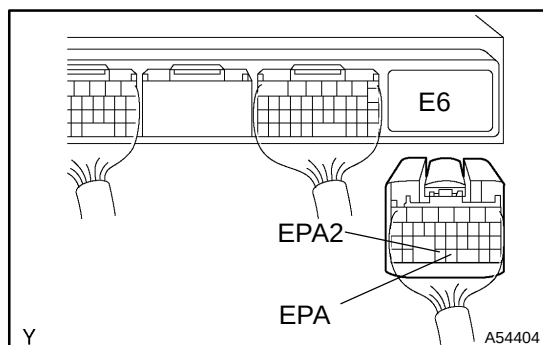
Accelerator pedal	Voltage	
	VPA - EPA	VPA2 - EPA2
Released	0.5 - 1.1 V	0.9 - 2.3 V
Depressed	3.0 - 4.6 V	3.4 - 5.0 V

OK

CHECK AND REPLACE ECM

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3 CHECK HARNESS AND CONNECTOR(ECM - ACCELERATOR POSITION SENSOR)

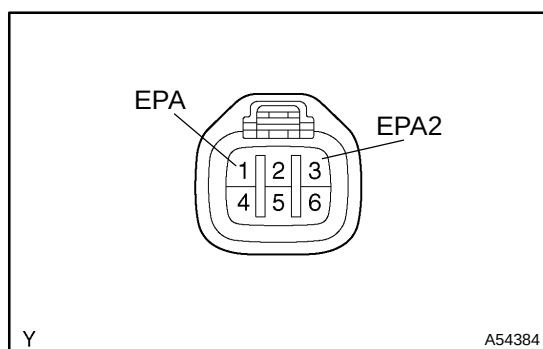


- (a) Disconnect the ECM E6 connector.
- (b) Check the continuity of the accelerator position sensor and ECM.

Standard: Continuity

- (c) Check the continuity of the EPA, EPA2 of the accelerator position sensor and the body ground.

Standard: No continuity



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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE ACCELERATOR PEDAL ASSY