DIDYJ-01

DTC P1121/19 Accel. Position Sensor Circuit (IDL SW/Range)

CIRCUIT DESCRIPTION

Refer[10[DTC[P11[20/19[on[page[DI-67.

DTC No.	DTC Detection Condition	Trouble Area
P1121/19	Condition (a) or (b) continues 0.05 sec. or more: (a) IDL ON and VA > 1.4 V (b) IDL ON and VAS > 1.4 V Condition (a) or (b) continues 0.5 sec. or more:	Open or short in accelerator pedal position sensor circuit Accelerator pedal position sensor Engine ECU
	(a) IDL OFF and VA < 0.6 V (b) IDL OFF and VAS < 0.6 V	
	Conditions (a) and (b) continue 0.05 sec. or more: (a) 0.6 V < VA < 4.4 V and 0.6 V < VAS < 4.4 V (b) VA - VAS > 0.5 V	

WIRING DIAGRAM

Refer[]o[DTC[P11]20/19[on[page[DI-67.

INSPECTION PROCEDURE

When using intelligent tester II:

Connect intelligent tester II and read IDL signal.

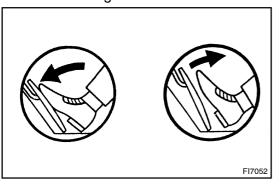
PREPARATION:

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester II main switch ON.

CHECK:

1

Read the IDL signal.



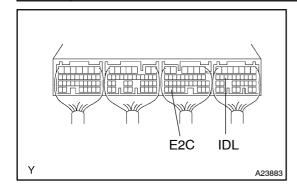
OK:

Accelerator pedal	IDL signal
Fully open	OFF
Fully closed	ON

OK Go to step 4.

NG

2 Check voltage between terminals IDL and E2C of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals IDL and E2C of the engine ECU.

OK:

Accelerator pedal	Voltage
Fully closed	9 to 14 V
Fully open	0 to 3 V

ок

Check and replace engine ECU (See page N-19).

NG

3

Check for open and short in harness and connector between engine ECU and accelerator[pedal[position[sensor[IDL[line)][See[page[IN-19])]]

NG

Repair or replace harness or connector.

ОК

Replace accelerator pedal position sensor.

Connect intelligent tester II, and read accelerator pedal operating percentage.

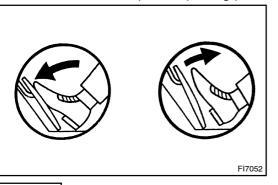
PREPARATION:

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester II main switch ON.

CHECK:

4

Read the accelerator pedal opening percentage.



OK:

Accelerator pedal	Accelerator pedal opening position expressed as percentage
Fully open	Approx. 65%
Fully closed	Approx. 18%

ok \

Check for intermittent problems (See page DI-4)

NG

5 Check voltage between terminal VCC of wire harness side connector and body ground [See page DI-67, Step 2).

NG

Go to step 8.

OK

6

Check voltage between terminals VA, VAS and E2C of engine ECU (See page DI-67, Step 3).

OK

Check and replace engine ECU (See page N-19).

NG

7

Check for open and short in harness and connector between engine ECU and accelerator pedal position sensor VA, VAS line) (See page N-19)

NG

Repair or replace harness or connector.

OK

Replace accelerator pedal position sensor.

8 Check voltage between terminals VCC and E2C of engine ECU (See page Di-67, Step 5).

NG

Check and replace engine ECU (See page N-19)

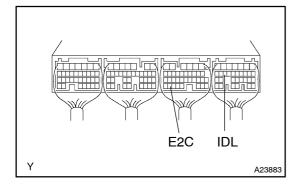
OK

1

Check for open in harness and connecter between engine ECU and accelerator pedal position sensor[VCC[line)[See[page]N-19]]

When not using intelligent tester II:

Check voltage between terminals IDL and E2C of engine ECU.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals IDL and E2C of the engine ECU.

OK:

Accelerator pedal	Voltage
Fully closed	9 to 14 V
Fully open	0 to 3 V

OK Go to step 3.

NG

2 Check for open and short in harness and connector between engine ECU and accelerator[pedal[position[sensor[IDL]]]] (See page [N-19]).

NG

Repair or replace harness or connector.

ОК

Replace accelerator pedal position sensor.

Check voltage between terminal 4 of wire harness side connector and body-ground [See page DI-67, Step 2).

NG

Go to step 6.

OK

Check voltage between terminals VA, VAS and E2C of engine ECU (See page DI-67, Step 3).

OK

Check and replace engine ECU (See page N-19).

NG

Check for open and short in harness and connector between engine ECU and accelerator[pedal[position[sensor[(VA,[VAS[]ine)[(See[page[]N-19)[]

NG

Repair or replace harness or connector.

OK

Replace accelerator pedal position sensor.

Check voltage between terminals VCC and E2C of engine ECU (See page D1-67, \$tep 5).

NG

Check and replace engine ECU (See page N-19)



Check for open in harness and connector between engine ECU and accelerator pedal position sensor (VCC) in (See page N-19)