DTC	19 (3)	Accelerator Pedal Closed Position Switch Circuit Malfunction (Short)

DTC	19 (4)	Accelerator Pedal Closed Position Switch Circuit Malfunction (Open)

CIRCUIT DESCRIPTION

Refer to DTC 19 (1) on page DI–42.

DTC No.	DTC Detection Condition	Trouble Area
19(3)	Conditions (a), (b) and (c) continue 0.5 sec. or more: (c) PDL ON (d) VA > Fully closed study voltage +0.41 V (e) VAS > Fully closed study voltage +0.41 V	• Short in accelerator pedal closed position switch circuit • Accelerator pedal closed position switch • Engine ECU
19(4)	PDL does not turn ON even once while driving vehicle (2 trip detection logic)	• Open in accelerator pedal closed position switch circuit • Accelerator pedal closed position switch • Engine ECU
	Conditions (a) and (b) continue 5 sec. or more: (a) PDL OFF (b) IDL ON	

WIRING DIAGRAM

Refer to DTC 19 (1) on page DI–42.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand–held tester, 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	**Check accelerator pedal closed position switch (See page ED–20).**

PREPARATION:

Disconnect the accelerator pedal closed position switch connector.

CHECK:

Measure the resistance between terminals of accelerator pedal closed position switch.

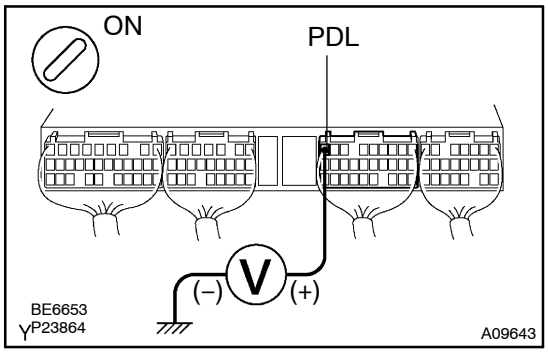
OK:

Terminals	Accelerator Pedal	Resistance
1 – 2	Fully released	∞
1 – 2	Fully depressed	0 – 20 Ω

NG → **Replace accelerator pedal (See page ED–20).**

OK

2	Check voltage between terminal PDL of engine ECU connector and body ground.



PREPARATION:

(a) Remove the glove compartment door.

(b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal PDL of the engine ECU conector and the body ground.

OK:

Accelerator Pedal	Voltage
Fully released	9 – 14 V
Fully depressed	0 – 3 V

OK → **Check and replace engine ECU (See page IN–20).**

NG

Check for open and short in harness and connector between engine ECU and accelerator pedal closed position switch, and accelerator pedal closed position switch and body ground (See page IN–20).