DTC	19 (2)	ACCEL. POSITION SENSOR CIRCUIT (IDL SW/RANGE)

CIRCUIT DESCRIPTION

Refer to DTC No. 19 (1) on page 05–128.

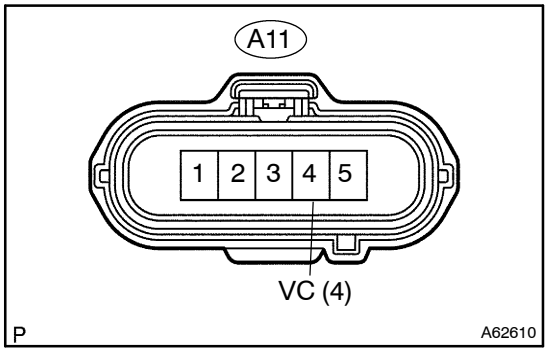
DTC No.	DTC Detection Condition	Trouble Area
19 (2)	When any of following conditions is fulfilled: (a) Engine idling (ACC OFF) (b) No abnormal voltage in No. 1 and No. 2 sensors (c) 0.65 V ≦ ACCP2 ≦ 1.05V (d) ACCP1 ≧ 1.5V	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM
	When any of following conditions is fulfilled: (a) Engine idling (ACC OFF) (b) No abnormal voltage in No. 1 and No. 2 sensors (c) 0.65 V ≦ ACCP2 ≦ 1.05V (d) ACCP2 ≧ 1.5V	

WIRING DIAGRAM

Refer to DTC No. 19 (1) on page 05–128.

INSPECTION PROCEDURE

1	CHECK ACCELERATOR LINK ASSY (VOLTAGE)



(a) Disconnect the A11 accelerator pedal position sensor connector.
(b) Turn the ignition switch ON.
(c) Check the voltage between the terminal of the A11 accelerator pedal position sensor connector and the body ground.

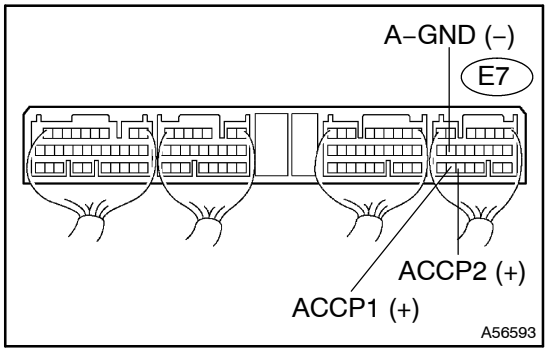
Voltage:

Symbols (Terminal No.)	Voltage
VC (A11–4) ⇔ Body ground	4.5 – 5.5 V

NG → **Go to step 4**

OK

2 CHECK ECM (VOLTAGE)



(a) Turn the ignition switch ON.
(b) Check the voltage between the terminals of the E7 ECM connector.

Voltage:

Accelerator Pedal	Symbols (Terminal No.)	Voltage
Fully closed	ACCP1 (E7–21) ⇔ A–GND (E7–14)	0.7 – 1.0 V
	ACCP2 (E7–20) ⇔ A–GND (E7–14)	0.7 – 1.0 V
Fully open	ACCP1 (E7–21) ⇔ A–GND (E7–14)	3.7 – 4.0 V
	ACCP2 (E7–20) ⇔ A–GND (E4–17)	3.7 – 4.0 V

OK ⇒ **CHECK AND REPLACE ECM (See page 01–27)**

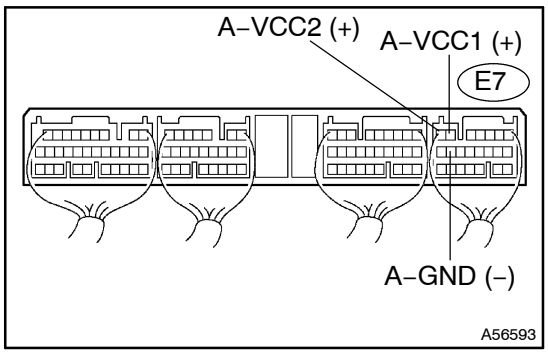
NG

3 CHECK WIRE HARNESS (ECM ⇔ ACCELERATOR PEDAL POSITION SENSOR) (See page 01–27)

OK ⇒ **REPLACE ACCELERATOR LINK ASSY**

NG ⇒ **REPAIR OR REPLACE HARNESS AND CONNECTOR**

4 CHECK ECM (VOLTAGE)



(a) Turn the ignition switch ON.
(b) Check the voltage between the terminals of the E7 ECM connector.

Voltage:

Symbols (Terminal No.)	Voltage
A–VCC1 (E7–6), A–VCC2 (E7–7) ⇔ A–GND (E7–14)	4.5 – 5.5 V

NG ⇒ **CHECK AND REPLACE ECM (See page 01–27)**

OK

5	CHECK WIRE HARNESS (ECM ⇔ ACCELERATOR PEDAL POSITION SENSOR) (See page 01–27)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM (See page 01–27)