

CIRCUIT INSPECTION

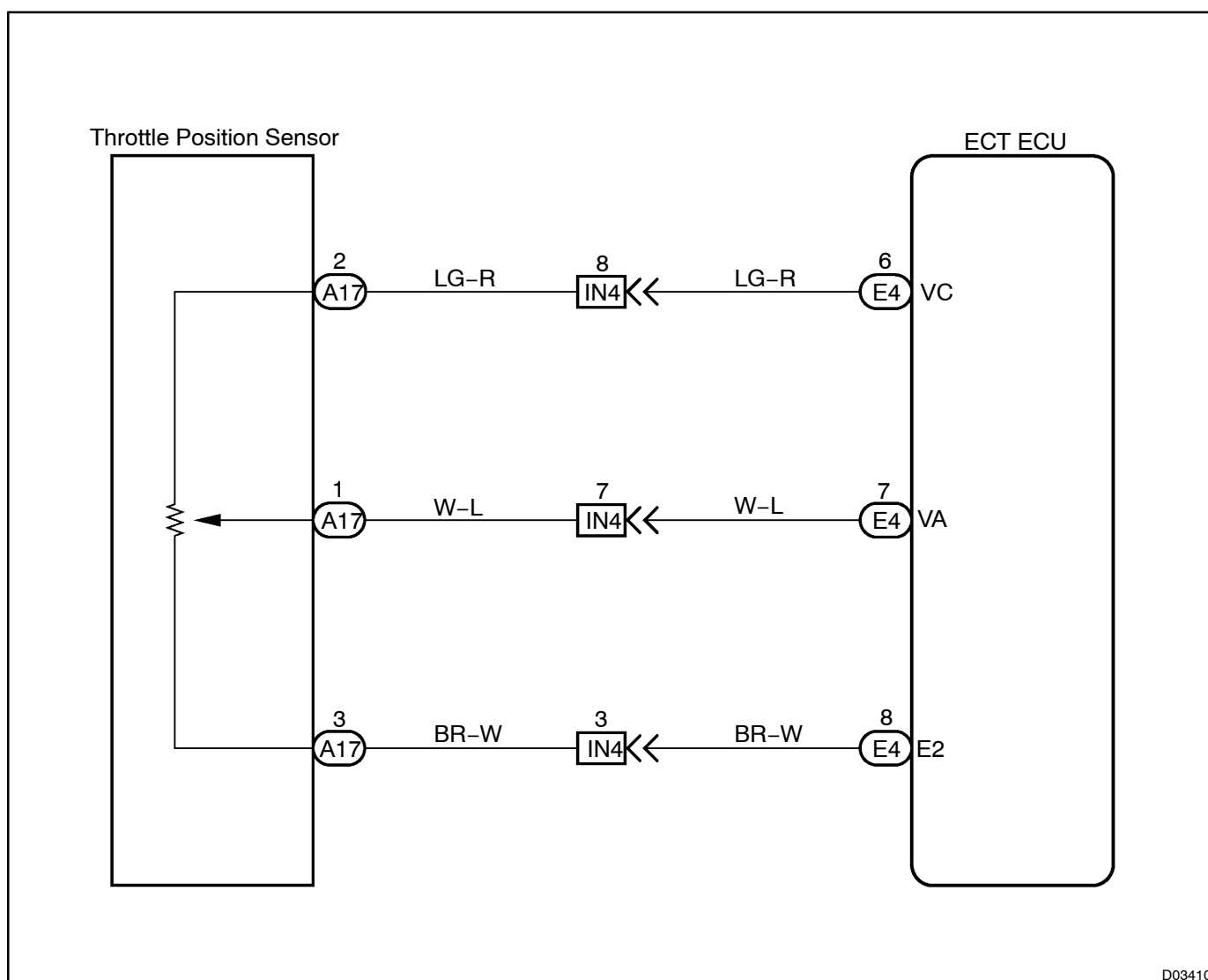
| | | |
|------------|-----------|---|
| DTC | 41 | Throttle Position Sensor Circuit |
|------------|-----------|---|

CIRCUIT DESCRIPTION

The throttle position sensor is mounted on the injection pump. The sensor detects the throttle valve opening angle and sends signals to the ECT ECU

| DTC No. | DTC Detecting Condition | Trouble Area |
|---------|---|--|
| 41 | Either (a) or (b) is detected for 0.5 secs. or more (a) VA less than 0.20 V (b) VA more than 4.30 V | <ul style="list-style-type: none"> • Open or short in throttle position sensor circuit • Throttle position sensor • ECT ECU |

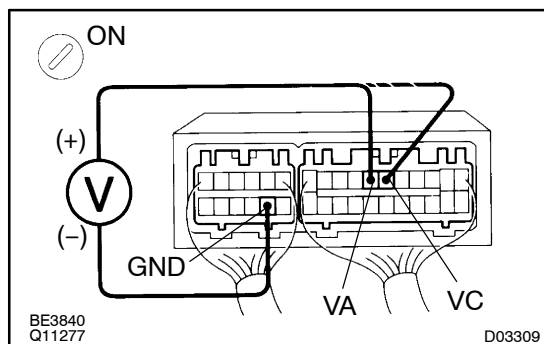
WIRING DIAGRAM



D03410

INSPECTION PROCEDURE

1 Check voltage between terminals VC and GND, VA and GND of ECT ECU.

**PREPARATION:**

Turn the ignition switch ON.

CHECK:

Measure voltage between terminals VC and GND, VA and GND of the ECT ECU.

CHECK:

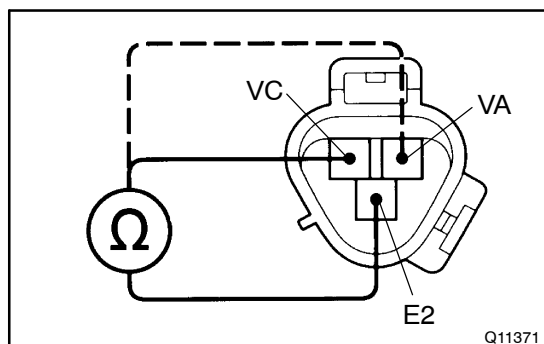
| Terminals | Throttle valve | Voltage |
|-----------|----------------|-------------|
| VC - GND | - | 4 - 6 V |
| VA - GND | Fully closed | 2.0 - 3.2 V |
| | Fully opened | 0.5 - 0.7 V |

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Check and replace ECT ECU
(See [page IN-35](#)).

OK

2 Check throttle position sensor.

**PREPARATION:**

Disconnect the throttle position sensor connector.

CHECK:

Measure resistance between terminals VC and E2, VA and E2 of the throttle position sensor.

CHECK:

| Terminals | Throttle valve | Resistance |
|-----------|----------------|---------------|
| VC - E2 | - | 1.84 - 3.42 Ω |
| VA - E2 | Fully closed | 1.3 - 7.6 kΩ |
| | Fully opened | 0.2 - 6.0 kΩ |

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Replace the throttle position sensor.

OK

Repair or replace wire harness or connector.