DI3R0–01

CIRCUIT INSPECTION

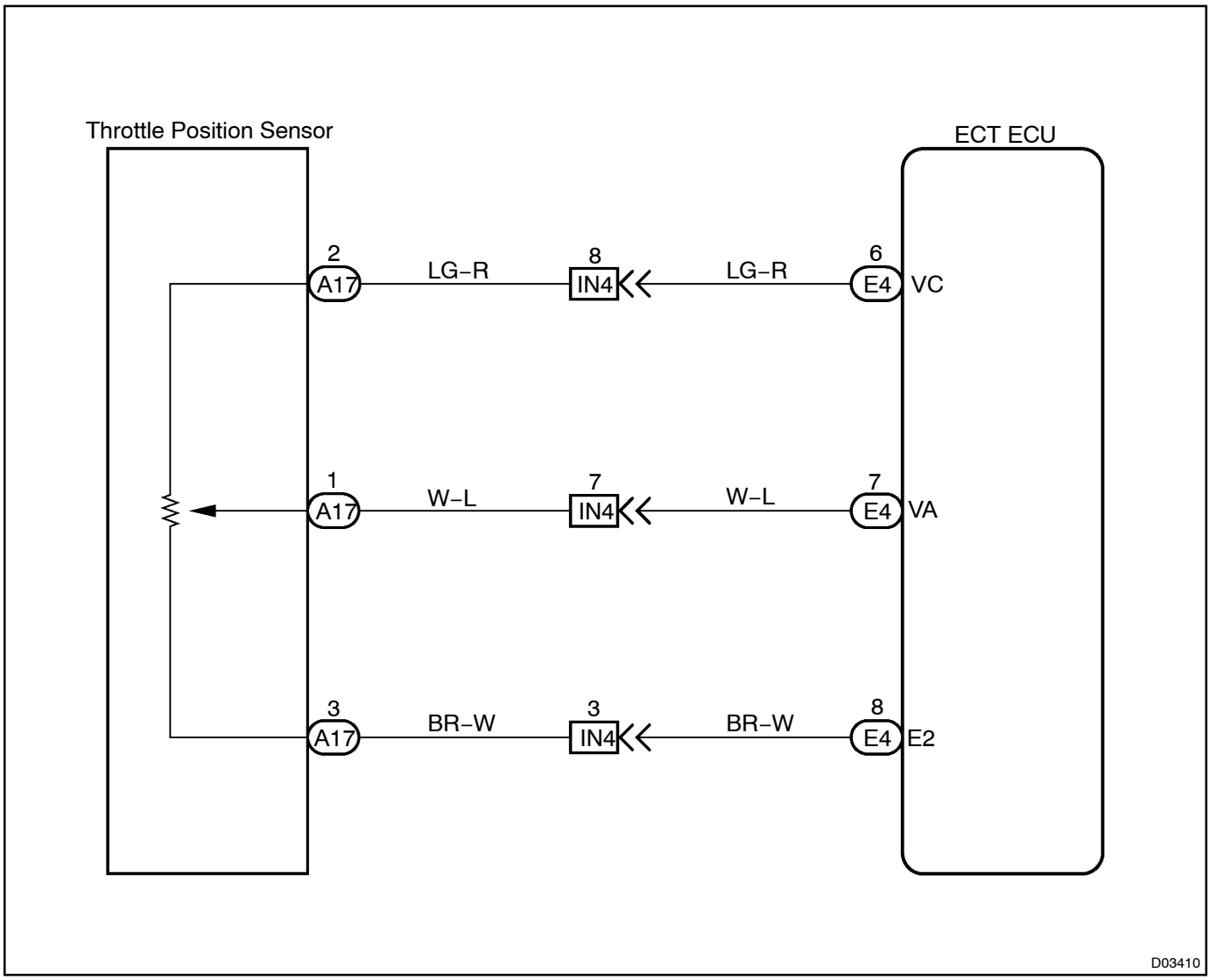
DTC	4 1	Throttle Position Sensor Circuit

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

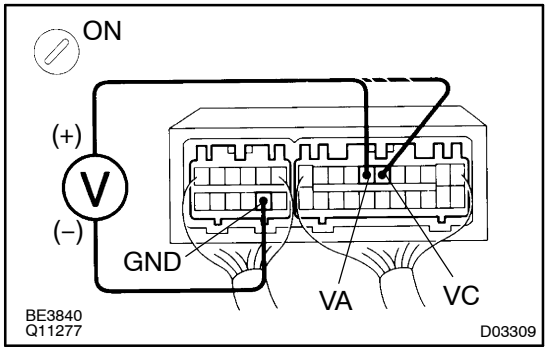
DTC No.	DTC Detecting Condition	Trouble Area
41	Either (a) or (b) is detected for 0.5 secs. or more (a) VA less than 0.20 V (b) VA more than 4.30 V	• Open or short in throttle position sensor circuit • Throttle position sensor • ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

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



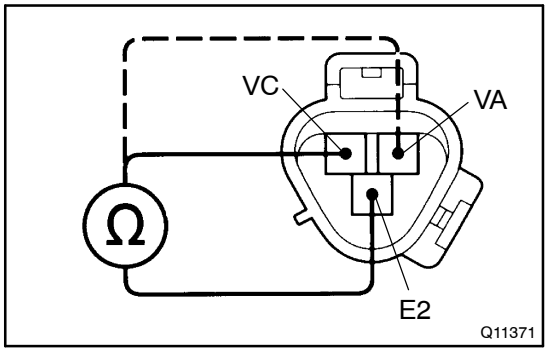
PREPARATION:
Turn the ignition switch ON.
CHECK:
Measure voltage between terminals VC and GND, VA and GND of the ECT ECU.
CHECK:

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

NG → **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 k Ω
	Fully opened	0.2 – 6.0 k Ω

NG → **Replace the throttle position sensor.**

OK

Repair or replace wire harness or connector.