

DTC	15	Throttle Control Motor Circuit Malfunction
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CIRCUIT DESCRIPTION

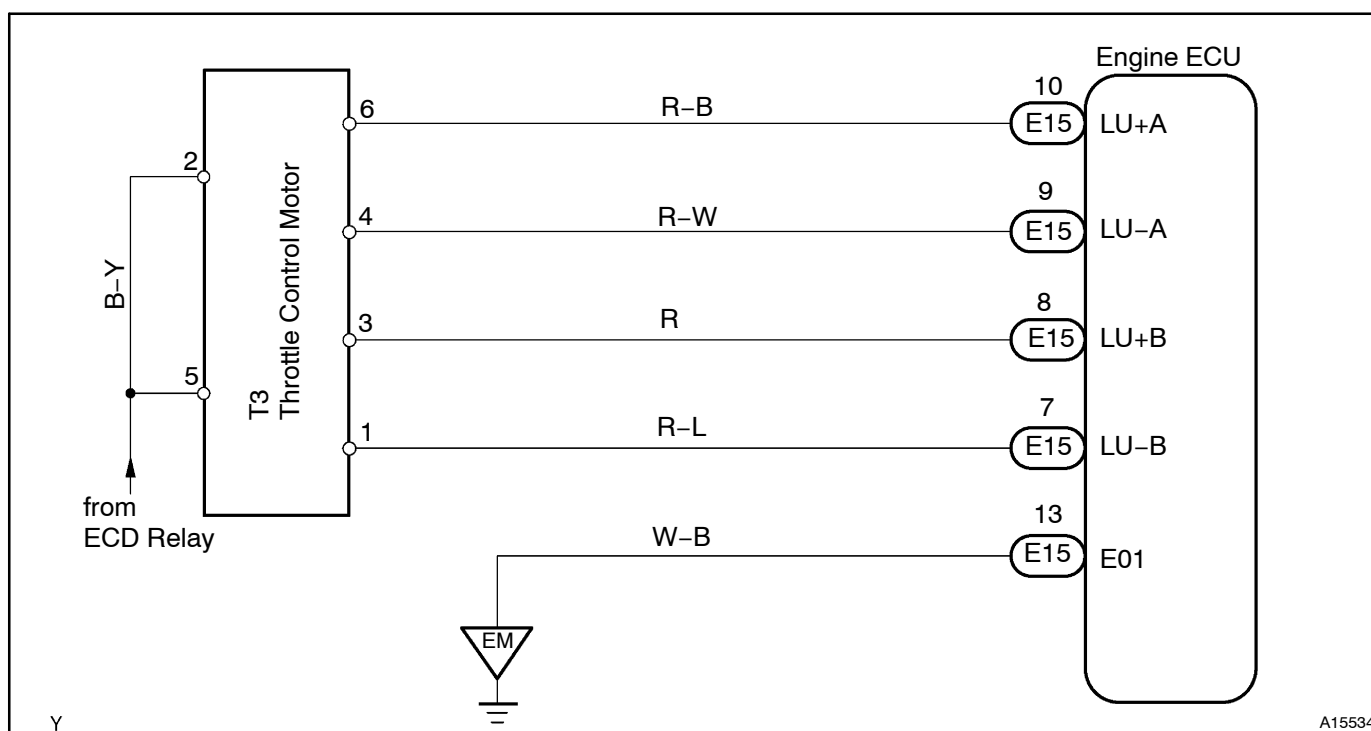
Throttle control motor is operated by the engine ECU and it opens and closes the throttle valve.

The fully opening of the throttle valve is detected by the throttle fully open position switch which is mounted on the throttle body.

If this DTC is stored, the engine ECU shuts down the power for the throttle control motor.

DTC No.	DTC Detecting Condition	Trouble Area
15	Open or short in throttle control motor circuit	• Open or short in throttle control motor circuit • Throttle control motor
	Open or short in throttle full switch circuit	• Throttle valve • Engine ECU

WIRING DIAGRAM

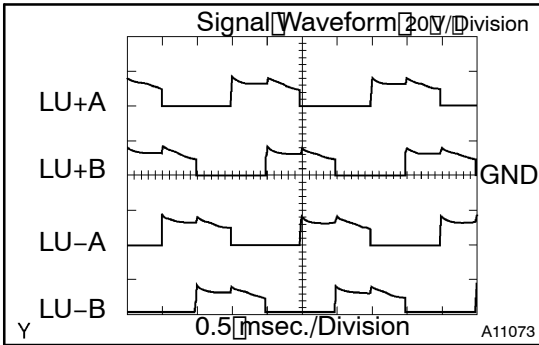


INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester. Because freeze frame 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 throttle control motor circuit.



PREPARATION:

- Connect an oscilloscope between terminals LU+A/LU-A/LU+B/LU-B and E01 of the engine ECU connector.
- Start the engine.

CHECK:

Check the waveform between terminals LU+A/LU-A/LU+B/LU-B and E01 of the engine ECU connector when depressing and releasing the accelerator pedal.

OK:

The correct waveform is as shown in the illustration.

OK

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

NG

2 Check throttle control motor (See page ED-3).

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Replace throttle body (See page ED-5).

OK

3 Check for open and short in harness and connector between throttle control motor and engine ECU (See page IN-19).

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Repair or replace.

OK

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