DI8NP–01

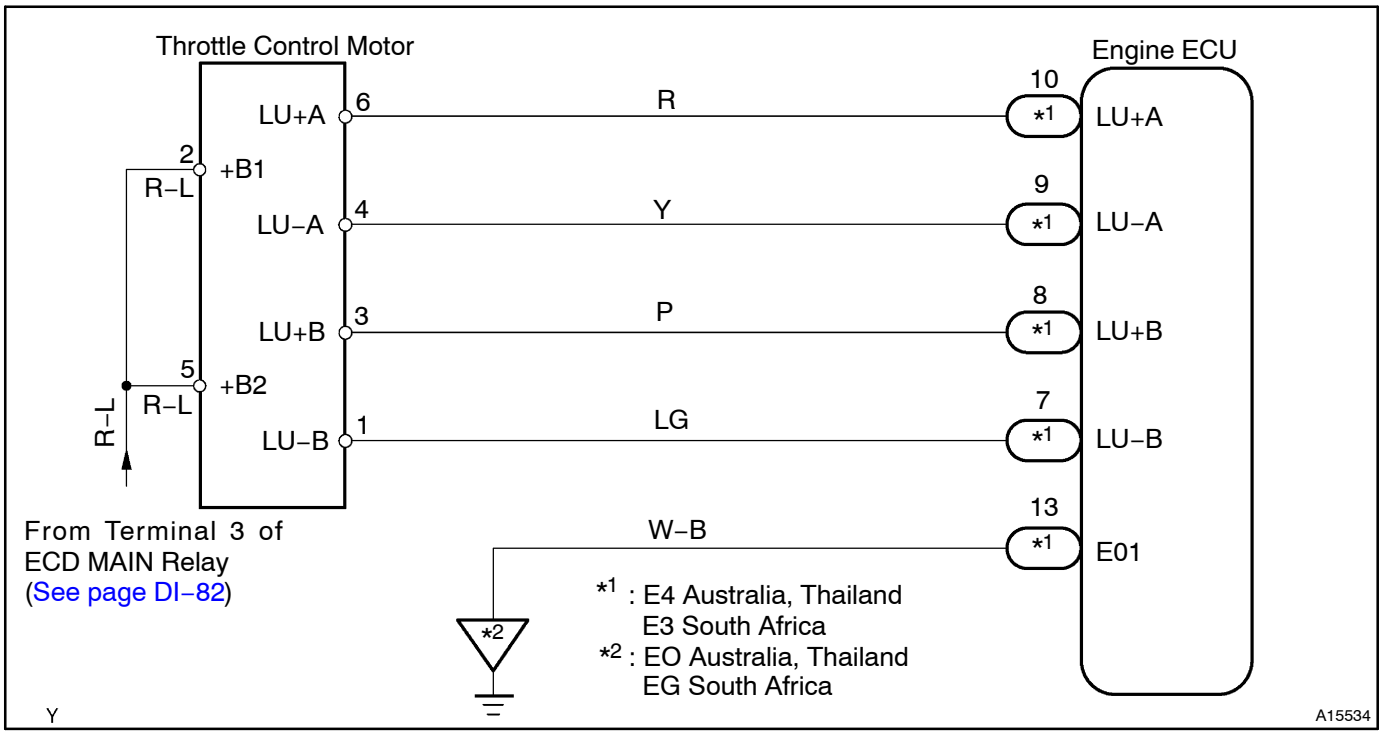
DTC	15	Throttle Control Motor Circuit Malfunction

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 • Throttle valve • Engine ECU
	Open or short in throttle full switch circuit	

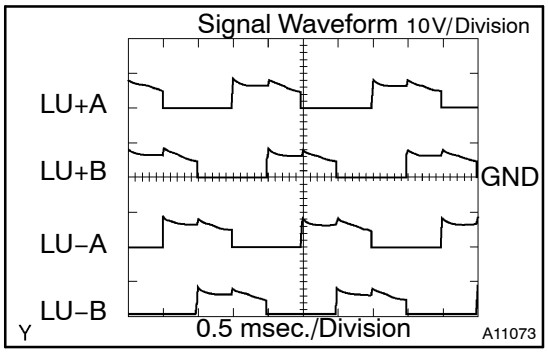
WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Read freeze frame data using hand–held tester. Because freeze frame records the engine conditions when the 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:

(a) Connect the oscilloscope between terminals LU+A/LU–A/LU+B/LU–B and E01 of the engine ECU connector.

(b) 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 the engine is racing and accele OFF.

OK:

The correct waveform is as shown.

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

NG

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

NG	Replace throttle body (See page ED–4).

OK

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

NG	Repair or replace.

OK

Check and replace engine ECU (See page ED–23).