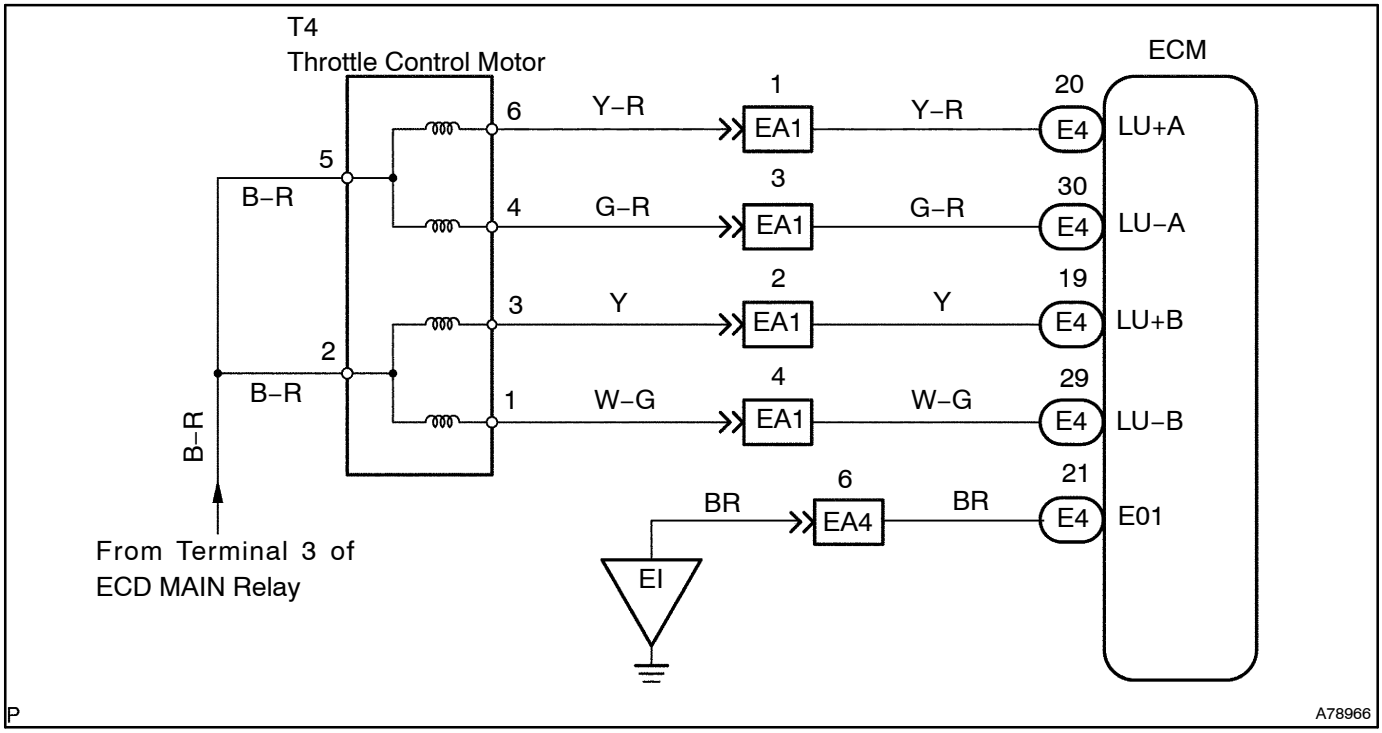
DTC	15	THROTTLE MOTOR CIRCUIT MALFUNCTION

CIRCUIT DESCRIPTION

Throttle control motor is operated by the ECM 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 ECM shuts down the power for the throttle control motor.

DTC No.	DTC Detection 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 • ECM
	Open or short in throttle full switch circuit	

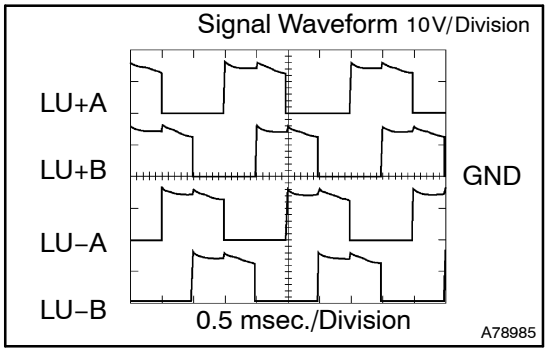
WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Read freeze frame data using the hand–held tester, as freeze frame data 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



Reference: Inspection using the oscilloscope.

(a) Check a waveform between terminals LU+A/LU–A/LU+B/LU–B and E01 of the ECM connector while the engine is racing and the accelerator pedal is released.

HINT:

The correct waveforms are as shown in the illustration.

OK → CHECK AND REPLACE ECM

NG

2	CHECK THROTTLE CONTROL MOTOR (See page 10–1)

NG → REPLACE THROTTLE BODY

OK

3	CHECK WIRE HARNESS (ECM ⇔ THROTTLE CONTROL MOTOR) (See page 01–27)

NG → REPAIR OR REPLACE

OK

CHECK AND REPLACE ECM (See page 01–27)