

DTC	P2102	Throttle Actuator Control Motor Circuit Low
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DTC	P2103	Throttle Actuator Control Motor Circuit High
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CIRCUIT DESCRIPTION

The throttle motor is operated by the ECM and it opens and closes the throttle valve.

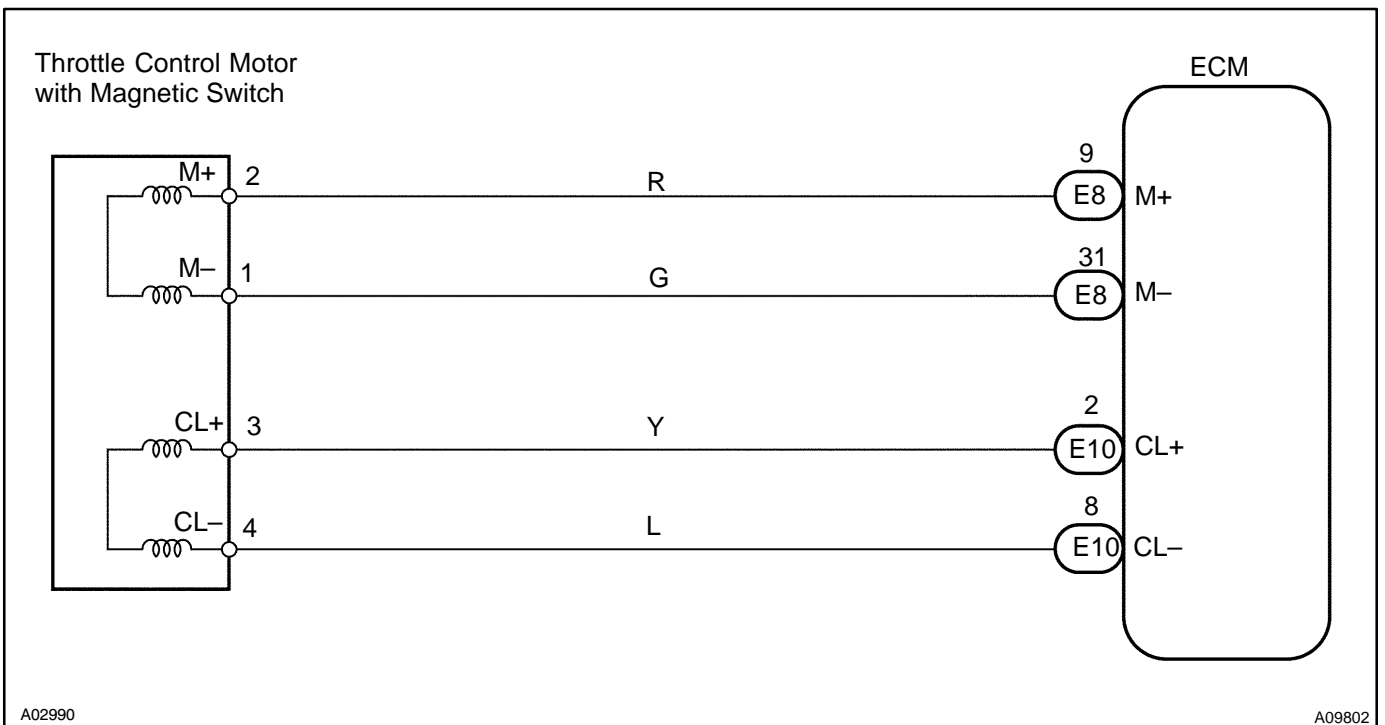
The opening angle of the throttle valve is detected by the throttle position sensor which is mounted on the throttle body and it provides feedback to the ECM to control the throttle motor in order to the throttle valve opening angle properly in response to the driving condition.

If this DTC is stored, the ECM shuts down the power for the throttle motor and the magnetic clutch, and the throttle valve is fully closed by the return spring.

However, the opening angle of the throttle valve can be controlled by the accelerator pedal through the throttle cable.

DTC No.	DTC Detecting Condition	Trouble Area
P2102	Conditions (a) and (b) continue for 0.5 seconds: (a) Throttle control motor output duty \geq 80 % (b) Throttle control motor current $<$ 0.5 A	<ul style="list-style-type: none"> • Open or short in throttle control motor circuit • Throttle control motor • ECM
P2103	Throttle control motor current \geq 16 A	
	Condition (a) continues for 0.6 seconds: (a) Throttle control motor current \geq 7 A	

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester or the OBD II scan tool. 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 (See page [SF-28](#)).

NG

Replace throttle control motor
(See page [SF-30](#)).

OK

2 Check for open and short in harness and connector between throttle control motor and ECM (See page [IN-28](#)).

NG

Repair or replace.

OK

Check and replace ECM (See page [IN-28](#)).