DICTJ-01

DTC□	P2119/89	Throttle[Actuator[Control]Throttle[Body
_		Range/Performance

^{*:[}ETCS[]rouble[code[No.[]s[]32,[]38[]or[]39.

CIRCUIT DESCRIPTION

The <code>Electric Throttle Control</code> <code>System (ETCS)</code> <code>Is composed of a throttle motor that operates the throttle valve, a throttle position sensor that other accelerator pedal position, and the engine control <code>ECU</code> that controls the <code>ETCS</code> system.</code>

The engine control CU perates the throttle motor to position the throttle valve for proper response to driver inputs. The throttle position sensor, mounted on the throttle pody, detects the opening angle of the throttle valve and provides this signal of the engine control CU of that the engine control CU on the throttle motor.

DTC[No.	DTC[Detection[Condition	Trouble[Area
P211 © /89	Throttle@pening@angle@ontinues@o@ary@reatly@rom@arget	•Electric[hrottle[control[system
	throttle@pening@angle_11@rip@letection@ogic)	•∏hrottle[body

MONITOR DESCRIPTION

The engine control ECU determines the actual throttle angle based on the throttle position sensor signal. The catual throttle position for manded by the engine control ECU. If the difference of these two values exceeds a specified that, the engine control ECU interprets this as a fault in the ETCS (Electronic Throttle Control system). The engine control ECU turns on the MIL and a DTC is set.

The inonitor in unstafter the engine is started, and the accelerator pedal is fully depressed to \$,000 in the fully released quickly.

FAIL SAFE

If the ETCS [Electronic] Throttle Control System) that the the throttle control system) that the throttle control system) that the throttle control system) the throttle control system) the throttle control system) the throttle control system is a significant of the system of the sy

If the accelerator pedal is depressed firmly and slowly, the vehicle can be driven slowly.

If a "pass" condition is detected and then the ignition switch is turned OFF, the fail-safe operation will stop and the system will return to normal condition.

WIRING DIAGRAM

Refer[]o[DTC[P2102[and[P2103[on[page[DI-206.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester. Freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, freeze frame data can help determine if the vehicle was running or stopped, if the engine was warmed up or not, if the air-fuel ratio was lean or rich, as well as other data from the time when a malfunction occurred.

1∏

Are[there_any_other_codes_(besides_DTC_P2119)]being_output?

PREPARATION:

- (a) Connect the thand-held tester to the DLC3.
- (b) Turn the ignition witch ON and push the hand-held tester main witch ON.
- (c) When using hand-held ester, enter the following menus: DIAGNOSIS DBD/MOBD DTC NFO CURRENT CODES.

CHECK:

Read[the[DTC]using[the[hand-held[tester.

RESULT:

Display[[DTC[Dutput)	Proceed[<u>f</u> o
P211 <u>9</u>	A
"P211"B"[and other DTC"	В

HINT:

If any other codes besides P2119 are output, perform he froubleshooting for hose DTCs first.

B

Go[to[relevant[DTC[chart[See[page[DI-19])]]

Α

2 | Check[if[DTC[output[reoccur

- (a) Clear the DTC.
- (b) Allow the engine to defor 15 seconds.
- (c) Pull_up[the[hand[brake[and[move[the[shift[ever[to[the[D]position.
- (d) Fully depress the brake pedal and the accelerator pedal for \$\seconds.
- (e) Read the DTC.

HINT:

Actual hrottle position sensor voltage can be confirmed using with he hand-held tester.

OK: No DTC output.

NG

Replace throttle body assy (See Pub. No. RM630E, page FI-42)

OK

Normal