DICTI -01

DTC□	P2121/19 Throttle/Pedal Position Sensor/Switch 7 D"	
_	Circuit Range/Performance	

HINT:

This[]s[]epair[procedure[]for[]the[]accelerator[pedal[position[sensor".

CIRCUIT DESCRIPTION

Refer[]o[DTC[P2120[pn[page[DI-218.

DTC[No.	DTC[Detecting[Condition	Trouble[Area
P2121/19	Conditions[a)[and[b)[continue]for[0.5]seconds: (1[frip[detection]logic) (a)[Difference[between[VPA[and[VPA2[exceeds[he]threshold]])]DL[is[DFF]]	Accelerator[pedal[position[sensor@ircuit Accelerator[pedal[position[sensor Engine@ontrol[ECU

MONITOR DESCRIPTION

When the difference between voltage outputs of the VPA1 or VPA2 deviate from the standard ange, the engine control CU concludes that there is a defect of the APP sensor. The engine control CU turns on the MIL and sets a DTC.

This monitor uns for 1 second the first second of engine dela fitter the engine is started.

FAIL SAFE

The APP sensor has two main and sub) sensor circuits. If a malfunction occurs in either of the sensor circuits, the engine control CU detects the abnormal signal voltage difference between the two sensor circuits and changes of limp mode. In the remaining circuit sused to calculate the accelerator pedal opening angle of allow the vehicle of continue driving.

If both circuits malfunction, the engine control CU regards the pening angle of the accelerator bed also be fully closed. In this case, the throttle valve will remain closed as if the engine is idling.

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[P2120[pn[page[DI-218.

INSPECTION PROCEDURE

HINT:

Read[freeze[frame[data[using[the[hand-held[tester.]]Freeze[frame[data[records[the[engine[conditions]]when a malfunction[scaleted.]When[froubleshooting, freeze[frame[data[can[help[determine]]ff]]he[vehicle[was running[or[stopped,[ff]]he[engine[was[varmed[up[or[hot,[ff]]]he[engine]]was[varmed[up[or[hot,[ff]]]he[engine]]was[varmed[up[or[hot,[ff]]]he[engine]]was[varmed[up[or[hot,[ff]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]he[engine]]was[varmed[up[or[hot,[ff]]]]he[engine]]he[engi

1	Ch	eck	ртс.	•	

RESULT:

Display[[DTC[Dutput)	Proceed[<u>l</u> o	
"P2121"[a̞re[o̞utput[a̞gain	А	
Other DTC output	В	

Α

2 Replace accelerator position sensor.

GO

3 | Check DTC.

PREPARATION:

- (a) \square Clear [] The []DTC [] See [] page [] [] [] J
- (b) Allow the engine to idle for a minute.
- (c) Race[the[engine[several[time.

CHECK:

Read[he[DTC[See[page[DI-3)[]

RESULT:

Display (DTC Output)	Proceed to
"P2121" are output again	A
No DTC output	В

B System OK

A

Replace engine control ECU (See Pub. No. RM630E, page FI-74).