	DTC□	_	THROTTLE/PEDAL POSITION SENSOR/SWITCH D'CIRCUIT RANGE/PERFORMANCE
L			

#### HINT:

This[is[iepair[procedure]]or[ihe[Accelerator[Pedal[Position[APP)]]sensor.

### **CIRCUIT** DESCRIPTION

Refer[]o[DTC[P2120[on[page[05-211]]

DTC[No.	DTC[Detection[Condition	Trouble[Area
P2121	Difference[between[VPA[and[VPA2[ist]]ess[t]]han[0.4[V,[brt]]nore than1.2[V[]]or[0.5[seconds[]1[trip[d]]detection[]]ogic)	Accelerator[pedal[position[APP)[sensor[circuit     APP[sensor     ECM

### MONITOR DESCRIPTION

When the difference between voltage outputs of the VPA1 or VPA2 deviated from the standard ange, the ECM concludes that there is a defect of the APP sensor. The ECM turns on the MIL and sets a DTC. This monitor or 1 second the dirst second of engine delegated.

#### FAIL-SAFE

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

If both circuits malfunction, the ECM regards the opening angle of the accelerator pedal to be fully closed. In this case, the throttle valve will remain closed as if the engine is dling.

If a pass tondition is detected and then the gnition witch is turned OFF, the fail-safe operation will stop and the system will return to mormal condition.

# WIRING DIAGRAM

Refer[lo[DTC[P2120[on[page[05-211]]

# INSPECTION PROCEDURE

#### HINT

# 1 | CHECK[OTHER[DTC[OUTPUT

Display[[DTC[]output)	Proceed[ <u>f</u> lo	
P2121	A	
P2121andotherDTCs	В	

B GO TO RELEVANT DTC CHART (See page 05-36)

Α

## 2 | REPLACE ACCELERATOR PEDAL ROD ASSY See page 10-23)

**NEXT** 

- 3 | CHECK[DTC[[ACCELERATOR[PEDAL[POSITION[SENSOR[DTCS[ARE]DUTPUT AGAIN]]
- $(a) \verb|| Clear[]| he[] DTC. \verb||Enter|]| he[] ollowing[]| menus: \verb||Enter|| Power[]| rain/ \verb||Engine[]| and \verb||ECT/|| DTC/|| Clear.$
- (b) Allow the engine to idle for a minute.
- (c) Read DTC. Enter he following menus: DTC/Current.

#### **Result:**

Display[[DTC[output)	Proceed[ <u>l</u> o
P2121	Α
No[DTC	В

B□\

CHECK[FOR[INTERMITTENT[PROBLEM (see[page[05-11)]

Α

REPLACE[ECM[[See page 10-21]]