

<b>DTC</b>	<b>P0505</b>	<b>IDLE AIR CONTROL SYSTEM</b>
------------	--------------	--------------------------------

## CIRCUIT DESCRIPTION

The idle speed is controlled by the ETCS (Electronic Throttle Control System).

The ETCS is composed of the throttle actuator which operates the throttle valve, and the throttle position sensor which detects an opening angle of the throttle valve.

The ECM controls the throttle motor to provide the proper throttle valve opening angle to obtain the target idling speed.

DTC No.	DTC Detection Condition	Trouble Area
P0505	Idling speed continues to vary greatly from target speed (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Electronic throttle control system</li> <li>• Air induction system</li> <li>• PCV hose connection</li> </ul>

## INSPECTION PROCEDURE

HINT:

Read freeze frame data using the Intelligent Tester II. Freeze frame data record the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air-fuel ratio was lean or rich, and other data from the time the malfunction occurred.

### 1 CHECK OTHER DTC OUTPUT (IN ADDITION TO DTC P0505)

- Connect the Intelligent Tester II to the DLC3.
- Turn the ignition switch to ON and turn the Intelligent Tester II ON.
- Select the following menu items: Powertrain / Engine and ECT / DTC.
- Read DTCs.

**Result:**

Display (DTC Output)	Proceed To
P0505	A
P0505 and other DTCs	B

HINT:

If any other DTCs besides P0505 are output, perform troubleshooting for those DTCs first.

**B**

**GO TO RELEVANT DTC CHART**  
(See page 05-29)

**A**

### 2 CHECK CONNECTION OF PCV HOSE

**OK: The PCV hose is connected correctly, and the PCV hose has no damage.**

**NG**

**REPAIR OR REPLACE PCV HOSE**

**OK**

**3 CHECK AIR INDUCTION SYSTEM**

(a) Check for vacuum leaks in the air induction system.

**OK: No leak in the air induction system.**

**NG** **REPAIR OR REPLACE AIR INDUCTION SYSTEM****OK****CHECK ELECTRIC THROTTLE CONTROL SYSTEM (See page 10-1)**