**Meets ASE Task:** (A8-D-9) P-1 Inspect throttle body, air induction system, intake manifold and gaskets for vacuum leaks and/or unmetered air.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

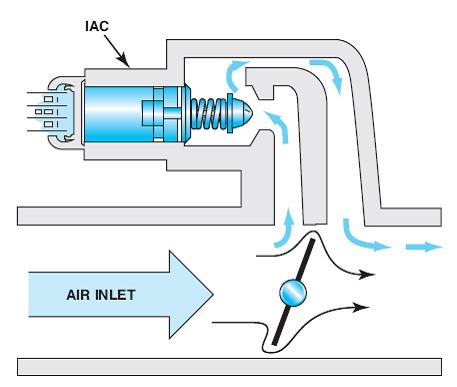
**Air Intake Inspection**

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The idle air control is used to control idle speed by increasing or decreasing the amount of air entering the engine like what occurs when the accelerator pedal is depressed.

**1.** Inspect throttle body and related components for vacuum leaks.

**OK**  **NOT OK** Describe faults: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**2.** Connect a scan tool.

**3.** Look at the IAC commanded position

= \_\_\_\_\_\_\_\_ (should be 15 to 25% or counts

on a warm engine in park or neutral).

**OK**  **NOT OK**

**Diagnosis:**

* **IAC counts higher than normal.** This could indicate one or more of the following:

1. Engine not fully warm

2. Some electrical load is on, such as daytime running lights or air

conditioning

3. Dirty throttle plates

4. Abnormal load on the engine

* **IAC counts lower than normal.** This could indicate one or more of the following:

1. A vacuum leak

2. Misadjusted idle speed control

3. Stuck or binding throttle cable or linkage

**4.** Based on the inspection of the system, what is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_