

Air Intake Inspection

Meets NATEF Task: (A8-B-8, A8-D-5, and A8-D-7) Perform active tests of actuators using a scan tool; determine necessary action. (P-1, P-2, P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

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

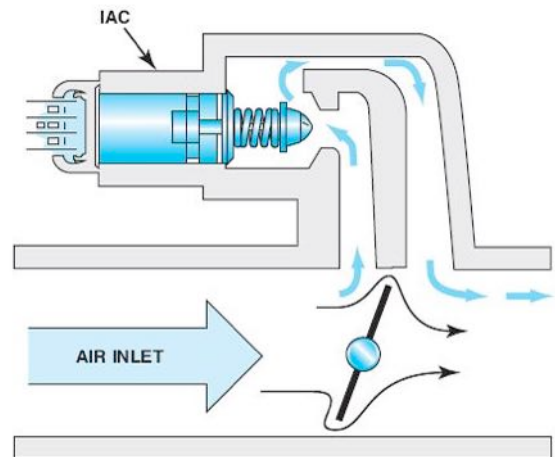
_____ 1. Inspect throttle body and related components for vacuum leaks.

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

_____ 3. Based on the inspection of the system, what is the necessary action? _____
