

# Secondary Air Injection Diagnosis

**Meets NATEF Task:** (A8-E-4 and A8-E-8) Inspect and test mechanical components of secondary air injection systems; perform necessary action. (P-3 and P2)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 1. Check service information for the recommended procedures to follow when inspecting and testing the AIR pump components.

\_\_\_\_\_ 2. Carefully inspect the condition of all of the hoses, check the valves and the metal lines for corrosion or damage.



\_\_\_\_\_ 3. Start the engine and feel the air pump lines to confirm the proper air flow.

**NOTE:** A defective one-way check valve at the exhaust manifold can allow hot exhaust gases to flow past the check valve and cause damage to the switching valves, hoses or air pump itself. These exhaust gases can cause poor engine operation and stalling if drawn into the air intake system.

\_\_\_\_\_ 4. Inspect the air pump drive belt for cracks and proper tension.

\_\_\_\_\_ 5. Inspect the electrical/electronic components of the air injection system.

\_\_\_\_\_ 6. Based on the inspection, what is the necessary action?

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