2003-06 ENGINE PERFORMANCE

PCV System - MDX

DTC TROUBLESHOOTING

DTC P2279: INTAKE AIR SYSTEM LEAK

NOTE:

- **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**
- **If DTC P0443 is stored at the same time as DTC P2279, troubleshoot DTC P0443 first, then recheck for DTC P2279.**

1. Check for vacuum leaks from at these parts.
   - PCV valve
   - PCV hose
   - Purge (PCS) line
   - Throttle body
   - Brake booster hose
   - Engine mount control solenoid valve

   Are there any leaks?

   YES - Repair or replace the damaged parts, then go to step 4 .

   NO - Go to step 2.
2. Start the engine. Hold the engine speed at 3,000 rpm without load (in Park or neutral) until the radiator fan comes on, then let it idle for 1 minute.
3. Monitor the OBD STATUS for DTC P2279 in the DTCs MENU with the HDS.

   Does the screen indicate FAILED?

   YES - Check the camshaft timing (see **TIMING BELT INSTALLATION**), then go to step 4.

   NO - If the screen indicates PASSED, intermittent failure, system is OK at this time. If the screen indicates NOT COMPLETED, go to step 2 and recheck.
4. Reset the PCM with the HDS.
5. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
6. Start the engine. Hold the engine speed at 3,000 rpm without load (in Park or neutral) until the radiator fan comes on, then let it idle for 1 minute.
7. Check for Temporary DTCs or DTCs with the HDS.

   Are any Temporary DTCs or DTCs indicated?

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YES - If DTC P2279 is indicated, check for vacuum leaks at the PCV valve, the PCV hose, the purge (PCS) line, the throttle body, or the brake booster hose, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

NO - Go to step 8.

8. Monitor the OBD STATUS for DTC P2279 in the DTCs MENU with the HDS.

Does the screen indicate PASSED?

YES - Troubleshooting is complete.

NO - If the screen indicates FAILED, then go to step 1 and recheck. If the screen indicates NOT COMPLETED, go to step 6 and recheck.

PCV VALVE INSPECTION

1. Remove the intake manifold cover and the ignition coil cover (see **IGNITION COIL REMOVAL/INSTALLATION**).
2. Check the PCV valve (A), hoses (B), and connections for leaks or restrictions.

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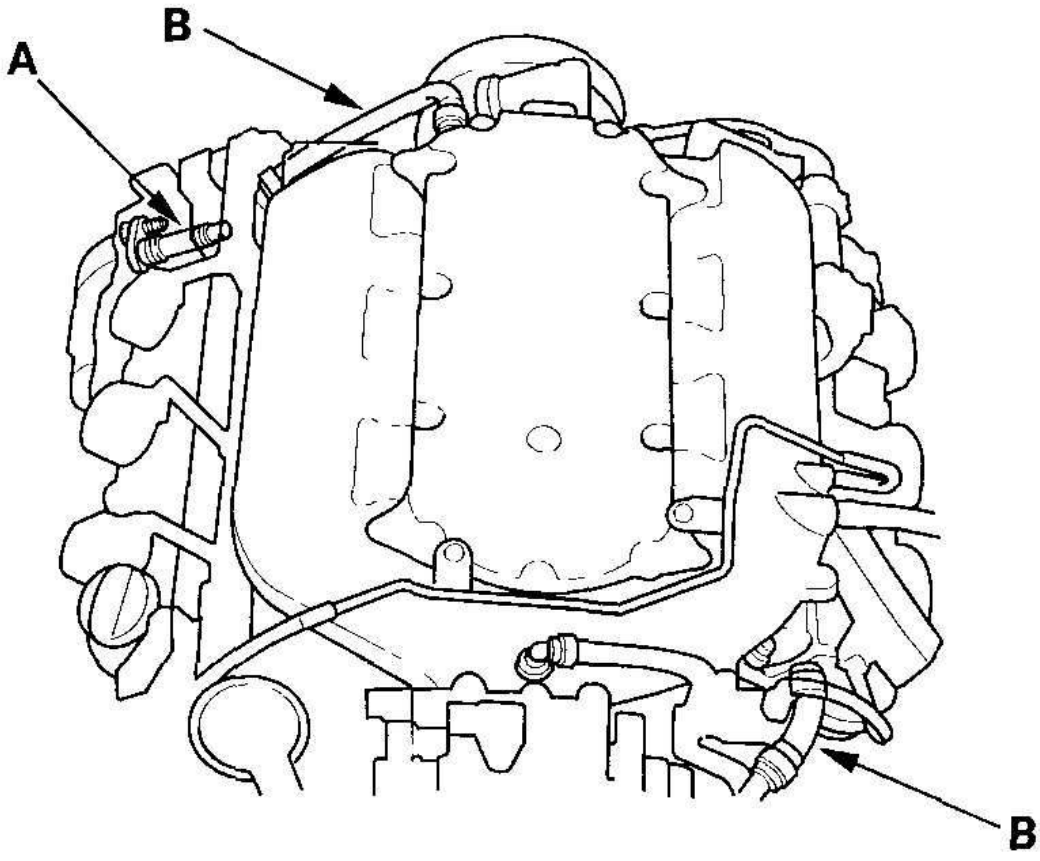

Fig. 1: Checking PCV Valve, Hoses, And Connections For Leaks Or Restrictions
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. At idle, listen to the PCV valve (A) with a stethoscope as you lightly pinch the PCV hose (B) with your fingers or pliers for several times. Each time the hose is pinched, the valve should click.

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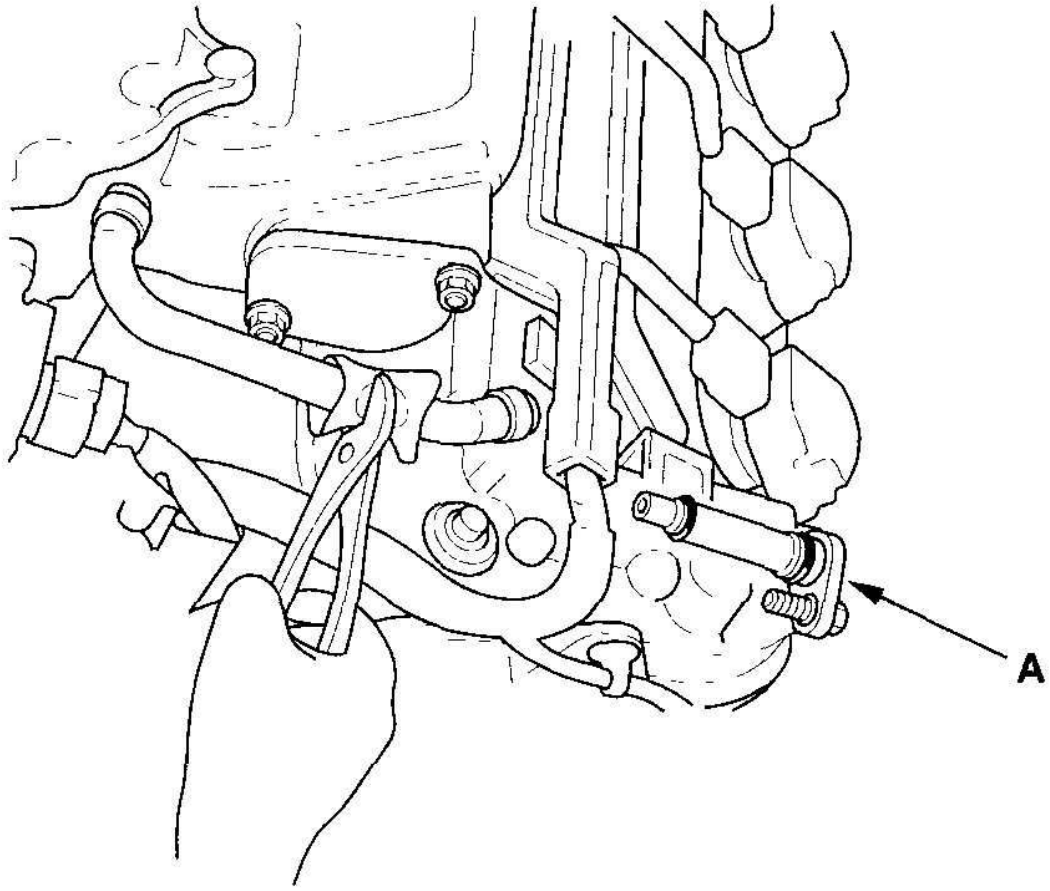

Fig. 2: Pinching PCV Valve
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If there is no clicking sound, check the PCV valve grommet for cracks or damage. If the grommet is OK, replace the PCV valve and recheck.
5. Install the ignition coil cover and the intake manifold cover (see **IGNITION COIL REMOVAL/INSTALLATION**).

PCV VALVE REPLACEMENT

1. Remove the intake manifold cover and the ignition coil cover (see **IGNITION COIL REMOVAL/INSTALLATION**).
2. Remove the bolt (A).

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NOTE: Take care not to spill oil on the exhaust manifold.

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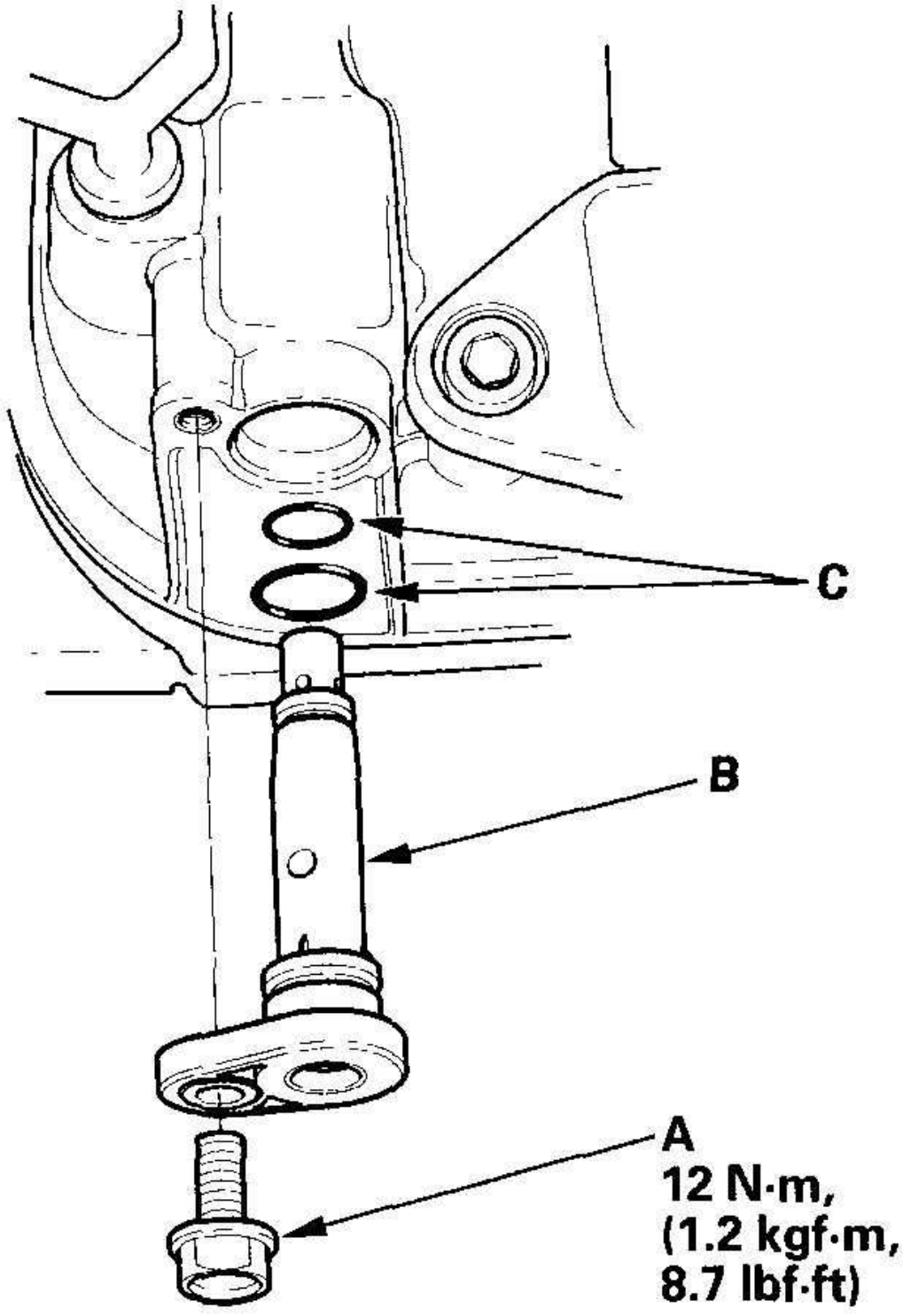

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Fig. 3: Removing PCV Valve Bolt
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the PCV valve (B).
4. Install the valve in the reverse order of removal.

NOTE:

- **When installing a new PCV valve, make sure the O-rings (C) are in place.**
- **When installing a used PCV valve, use new O-rings (C).**

5. Install the ignition coil cover and the intake manifold cover (see **IGNITION COIL REMOVAL/INSTALLATION**).

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