

## CERTAIN 2014 MODEL YEAR POLICE INTERCEPTOR SEDAN AND 2014-2016 MODEL YEAR POLICE INTERCEPTOR UTILITY VEHICLES — CANISTER PURGE VALVE LEAKS

### NEW ! OVERVIEW

In some of the affected vehicles, the malfunction indicator lamp (MIL) will illuminate *as a result of an on-board diagnostic (OBD) leak check* and the powertrain control module may store one or more diagnostic trouble codes (DTCs) due to a faulty CPV.

If an affected vehicle exhibits this condition, dealers are to check for the following DTCs: P1450, P0443, P0456, P2196, and P2198. If one or more of these DTCs are present, dealers are to replace the CPV. *If these DTCs are not present, test the CPV for leaks, and replace if necessary.* This service must be performed at no charge to the vehicle owner.

**NOTE:** This program extends the warranty coverage of the Canister Purge Valve (CPV) to 10 years of service or 120,000 miles from the warranty start date of the vehicle, whichever occurs first. Coverage is automatically transferred to subsequent owners.

### NEW ! SERVICE PROCEDURE

#### Recommended Tool List:

1/4" Drive Ratchet Power and Hand
1/4" Drive Shallow 8mm Socket
1/4" Drive Torque Wrench
<b>Special Tools:</b>
<i>VACUTEC® Smoke Machine, or equivalent</i>
IDS/VCMII Scan Tool

1. Using IDS check for the following DTCs: P1450, P0443, P0456, P2196, and P2198

- If **one or more** of the DTCs listed above are present, replace the CPV. Please follow the Workshop Manual (WSM) procedures in Section 303-13.
- If **none** of the DTCs listed above are present, *proceed to Canister Purge Valve (CPV) Testing, on Page 2.*



**NEW ! Canister Purge Valve (CPV) Testing**

**NOTE:** Ensure that the VACUTEC® Smoke Machine or equivalent is properly calibrated for a 0.020" leak test following the manufacturer's instructions.

1. Disconnect the vapor tube-to-CPV quick connect coupling. Please follow the WSM procedures in Section 310-00. See Figure 1.



**FIGURE 1**

2. Using suitable adapters, connect the VACUTEC® Smoke Machine Fuel Evaporative Emission System Tester or equivalent to the port on the CPV. See Figure 2.



**FIGURE 2**



3. With the ignition in the "OFF" position, apply the regulated air pressure to the CPV using the VACUTEC or equivalent and monitor for air flow on the gauge. A good CPV will not register air flow on the gauge. See Figure 3.

4. Is the CPV leaking?

No - Reconnect the vapor tube-to-CPV quick connect coupling. Inspection procedure complete.  
Yes - Replace the CPV following the WSM procedures in Section 303-13.



FIGURE 3

