



**NUMBER:** 25-003-07

**GROUP:** Emissions

**DATE:** November 14, 2007

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**SUBJECT:**

DTC P0456 - Evaporative System Small Leak Due To Loose Charcoal From Canister

**OVERVIEW:**

This bulletin involves performing the diagnostic procedure for DTC P0456, and if necessary, the replacement of evaporative system components.

**MODELS:**

2007	(DR/DH/D1/DC)	Ram Truck (1500/2500/3500)
2007	(HB/HG)	Durango/Aspen
2007	(WK)	Grand Cherokee
2007	(XK)	Commander

**NOTE: This bulletin applies to vehicle built on or between January 26, 2007 and June 18, 2007 (MDH 0126XX to MDH 0618XX respectively).**

**SYMPTOM/CONDITION:**

The customer may experience a Malfunction Indicator Lamp (MIL) illumination. Additional investigation may reveal that the MIL is due to Diagnostic Trouble Code (DTC) P0456 - Evaporative System Small Leak.

**DIAGNOSIS:**

- 1. Was vehicle built (check vehicle build date) on or between January 26, 2007 (MDH 0126XX) and June 18, 2007 (MDH 0618XX)?**
  - a. If YES >>> then proceed to the next step.
  - b. If NO >>> then STOP. This bulletin does not apply. Further diagnosis is required.
- 2. Using a Scan Tool (StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT > Service Info tab > 9 - Engine - Electrical Diagnosis > Diagnosis and Testing, verify all engine systems are functioning as designed. If DTC's other than those listed above are present record them on the repair order and repair as necessary before proceeding further with this bulletin.**
- 3. Perform the complete Diagnostic Procedures for DTC P0456 - Evaporative System Small Leak.**

**NOTE: Make sure that the flow and smoke tests are performed completely.**

4. Was an evaporative system leak detected when a complete DTC P0456 Diagnostic Procedure was performed.
  - a. If YES >>> then proceed to the next step.
  - b. If NO >>> then perform the Repair Procedure.
5. Was the root cause of the leak in the evaporative system a leaking Evaporative System Integrity Module (ESIM)?
  - a. If YES >>> then perform the Repair Procedure.
  - b. If NO >>> then STOP. This bulletin does not apply. Further diagnosis and/or repair is required.

**PARTS REQUIRED:**

Qty.	Part No.	Description
		<b>IF HB/HG - DURANGO / ASPEN</b>
1	52113549AE	Canister, Fuel Vapor (includes: Seal and ESIM)
1	52855832AB	Hose and Filter, Evap Fresh Air
		<b>IF WK/XK - GRAND CHEROKEE / COMMANDER</b>
1	04891725AC	Canister, Fuel Vapor (includes: Seal and ESIM) - All
1	52090315AI	Assembly, Filler Hose (includes Evap Fresh Air Hose and Filter) - WK
1	52090241AD	Assembly, Filler Hose (includes Evap Fresh Air Hose and Filter) - XK
		<b>IF DR - Ram Truck (1500) w/26 GALLON FUEL TANK</b>
1	55398669AB	Canister, Fuel Vapor (includes: Seal and ESIM)
1	55398232AA	Hose, Evap Fresh Air
1	04891994AA	Filter, Evap Fresh Air
		<b>IF DR - RAM TRUCK (1500) w/34 or 35 GALLON FUEL TANK</b>
1	04891723AB	Canister, Fuel Vapor (includes: Seal and ESIM)
1	55398159AA	Hose, Evap Fresh Air
1	04891994AA	Filter, Evap Fresh Air
		<b>IF DH/D1/DC - 2500 or 3500</b>
1	04891726AB	Canister, Fuel Vapor (includes: Seal and ESIM) - All
1	52121718AB	Hose, Evap Fresh Air - DH/D1
1	52121681AA	Hose, Evap Fresh Air - DC
1	04891994AA	Filter, Evap Fresh Air - All

**SPECIAL TOOLS/EQUIPMENT REQUIRED:**

8404A	Evaporative Emissions Leak Detector (EELD)
8404-14	Service Port
8404-ADP	Service Adapter - Filter Line
8404-UVL	Ultraviolet (UV) Black Light
8404-CCL	White Light
8404-20	Protective Yellow Goggles
8382	Gas Cap Adapter (1/4 turn cap)
6922	Gas Cap Adapter (Screw On Cap)
8399	Secondary Seal Depressor

**REPAIR PROCEDURE:**

1. Replace the following emission system components:
  - a. Fuel Vapor Canister (with ESIM).
  - b. Fresh Air Fuel Vapor Filter.
  - c. Fresh Air Filter to Fuel Vapor Canister Hose.
2. Refer to TechCONNECT for detailed service procedures. From the “Service Info” tab select: 25 - Emissions > Evaporative Emissions > Switch - Evap System Monitor and Canister - Vapor

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
25-01-15-95	Fuel Vapor Canister, ESIM, Fresh Air Vapor Filter, and Fresh Air Vapor Hose - Replace (B) - DR / DH / D1 / DC	0.5 Hrs.
25-01-15-95	Fuel Vapor Canister, ESIM, Fresh Air Vapor Filter, and Fresh Air Vapor Hose - Replace (B) - HB / HG	1.2 Hrs.
25-01-15-95	Fuel Vapor Canister, ESIM, Fresh Air Vapor Filter, and Fresh Air Vapor Hose - Replace (B) - WK / XK	0.7 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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