



**NUMBER:** 09-005-06

**GROUP:** Engine

**DATE:** April 27, 2006

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**SUBJECT:**

Swirl Chamber Linkage Clip May Bind Causing DTC P1270 - Intake Manifold Runner Perf

**OVERVIEW:**

This bulletin involves the replacement of mechanical clips for the intake manifold runner swirl valve linkage.

**MODELS:**

2006	(LE)	300 / Magnum / Charger
2005 - 2006	(WH)	Grand Cherokee
2006	(XH)	Commander

**NOTE: This bulletin applies to vehicles built for international markets and equipped with the 3.0L turbo-diesel engine (sales code EXL).**

**SYMPTOM/CONDITION:**

The customer may experience a Malfunction Indicator Lamp (MIL). Diagnosis may determine that the MIL was caused by a Diagnostic Trouble Code (DTC) P1270 - Intake Manifold Runner (Swirl) Performance. This condition may occur most often on low mileage vehicles.

The DTC may be due to clips which may cause mechanical linkage to bind. The mechanical linkage is used to operate the swirl chamber valves that are located in each runner of the intake manifold.

**DIAGNOSIS:**

If the customer has experienced the above condition, and DTC P1270 is present, perform the Repair Procedure.

**PARTS REQUIRED:**

Qty.	Part No.	Description
2	05175645AA	Gasket Set, Intake Manifold
6	68001951AA	Clip, Swirl Chamber Linkage
1	05175630AA	Gasket, Turbo-to-Turbo Mount
1	05175629AA	Gasket, Turbo-to-Exhaust Y Manifold

Qty.	Part No.	Description
1	05175748AA	Gasket, Turbo-to-Catalyst Down Pipe
1	05175752AA	Gasket, Turbo Exhaust Y Manifold-to-Left Exhaust
1	05175751AA	Gasket, Turbo Exhaust Y Manifold-to-Right Exhaust
1	05175695AA	Gasket, EGR Tube
1	05175632AA	Gasket, Turbo Mount (Pedestal)-to- Engine
3	05175696AA	Bolt, EGR Tube
3	05073720AC	Bolt, Turbo Exhaust

**REPAIR PROCEDURE:**

1. Replace the linkage clips on the linkage rods for each intake manifold runner. The linkage rods are used to move each swirl chamber valve. There are two linkage rods per engine and three clips to each linkage rod (a total of six clips). Use the **2006 M.Y. 3.0L Linkage - Swirl Valve** repair procedures to make this repair. For detailed service repair information, refer to DealerCONNECT and select: the Service Information tab / 9 - Engine / Engine - 3.0L TD Service Information / Linkage - Swirl Valve / Removal and Installation. or the Service Information tab / 9 - Engine / Manifolds / Linkage - Swirl Valve / Removal and Installation.

**CAUTION:** Even after draining the cooling system, some coolant may still be in the intake manifold. Use caution when removing and installing the intake manifold so that no coolant is allowed to spill into the combustion chamber. Liquids of any sort in the diesel engine combustion chamber may cause a hydraulic lock of the engine and cause severe engine damage.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
09-50-01-95	Replace Intake Manifold Runner (Swirl Chamber) linkage clips - WH or XH	6.6 Hrs.
09-50-01-95	Replace Intake Manifold Runner (Swirl Chamber) linkage clips - LE	5.7 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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