

NUMBER: 18-031-03

GROUP: Vehicle

Performance

DATE: Sep. 05, 2003

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SUBJECT:

4.0L Rough Engine Idle After Restart Following A Hot Soak

OVERVIEW:

This bulletin involves the installation of a fuel injector insulator sleeve.

MODELS:

2000-2004	(TJ)	Wrangler (Domestic and International Markets)
1999-2004	(WJ)	Grand Cherokee (Domestic and International Markets)
2001-2004	(WG)	Grand Cherokee (International Market)
2000-2001	(XJ)	Jeep Cherokee (Domestic and International Markets)

NOTE: This bulletin applies to vehicles equipped with a 4.0L engine (sales code = ERH)

SYMPTOM/CONDITION:

Customers may describe a 20 to 30 second rough idle following the restart of a heat soaked engine. This condition may be most noticeable when the engine is restarted following a prior 10 to 20 minute heat soak in hot ambient conditions of approximately 32°C (90°F) or higher. This condition may be consistent with short city stop-and-go driving trips and can be aggravated by the use of fuel with a high ethanol content. Depending upon various conditions a MIL may occur due to DTC P0303 - Cylinder #3 Misfire.

This condition may be caused by heat from the exhaust manifold that following engine shut down migrates to the area around injector #3 and causes fuel vapor to form within the injector. This in turn may cause a momentary misfire of cylinder #3 until the fuel vapor is cleared of injector #3. The insulator sleeve lowers the injector #3 temperature to a point below which the fuel will not normally vaporize.

DIAGNOSIS:

1. If vehicle exhibits a rough idle, and if a misfire of cylinder #3 is observed following a 10 to 20 minute hot soak, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	56028371AA	Ignition Wire Shield

REPAIR PROCEDURE:

- 1. Cut insulator sleeve, p/n 56028371AA, to make two (2) insulator sleeves about 25-30 mm (1 in.) in length.
- 2. Install one sleeve around injector #3, with the slit on the upward facing side of the injector. Install the other sleeve with the slit on the downward facing side of the injector.
- 3. Confirm sleeve is flush to intake manifold surface around injector.
- 4. Check injector #3 wire and ensure that the injector is rotated to a 2 o'clock position (from driver's side of vehicle).

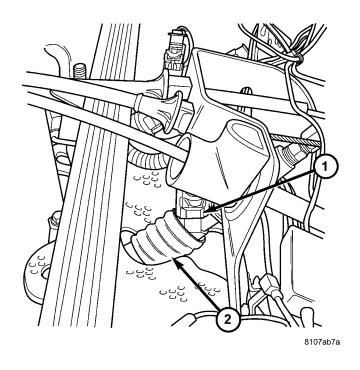


Fig. 1 SLEEVE INSTALLATION

- 1 # 3 INJECTOR
- 2 INSTALLED SLEEVE

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
14-30-20-97	Install Heat Insulator to #3 Fuel Injector	0.2 Hrs.

-3- 18-031-03

FAILURE CODE:

AM	Authorized Modification	
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