



Countries:	RUSSIA, CANADA, UNITED STATES, MEXICO	Document ID:	IK1200915
Availability:	ISIS	Revision:	4
Major System:	ENGINES	Created:	6/7/2013
Current Language:	English	Last Modified:	8/22/2013
Other Languages:	NONE	Author:	Steven Bell
Viewed:	1439		

[Less Info](#)

Hide Details

Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		 View My Bookmarks				 13	 0

Title: Valve Bridges Falling Off

Applies To: EPA 2010 11L & 13L Engines

DESCRIPTION

If idle or drivability misfire conditions exist, with an ACTIVE Cylinder Misfire DTC logged on vehicle health report, perform the following tests to positively confirm cylinder(s) at fault: relative compression & multiple cylinder cutout test. If unrelated additional DTC's were stored, they will either be addressed during or after the following repair procedure using [Engine Diagnostic Manual 1741](#)

REPAIR PROCEDURE

If a valve bridge is found misplaced, 1 of the 2 processes will be followed:

- 1) <50,000 Total Miles
 - A) Reinstall Valve Bridge
 - B) Perform valve lash adjustment procedure
 - C) Document steps taken
 - E) Validate ALL repairs are complete
 - F) Release unit back to customer

*This is most likely an assembly issue

- 2) >50,000 Total Miles

- A) Review Warranty Data

-If a cylinder head has been replaced in previous 20,000 total miles for the same issue, open a Big Bore Tech Service case file.

B) Order the following parts **CRITICAL TRUCK DOWN**

- Cylinder Head
- Cylinder Head Removal Kit
- Cylinder Head Gasket (Note: 11 & 13L gaskets are different in Figures 2 and 3

below)

- 6 Fuel Injector Seal Kits

C) Remove the Cylinder Head for replacement then perform Piston Protrusion check as outlined in [Engine Service Manual 1682](#)

D) Reuse the Cam Bearings unless they are damaged**TECH TIPS**

1) Transfer 6 injector hold down spacer pucks beneath the injector hold downs over to the new head (Figure 1)

2) Compare new and old head gaskets. An 11L head gasket on a 13L engine will stop the engine from turning over once the head is torqued down since the bore size is smaller than a 13L Piston.

A) 11L Gasket does NOT have a notch at the RR corner of the cylinder head gasket (Figure 2)

B) 13L Gasket does have a notch at the RR corner of the cylinder head gasket (Figure 3)

3) Be sure to properly time the cam gear per the service manual.

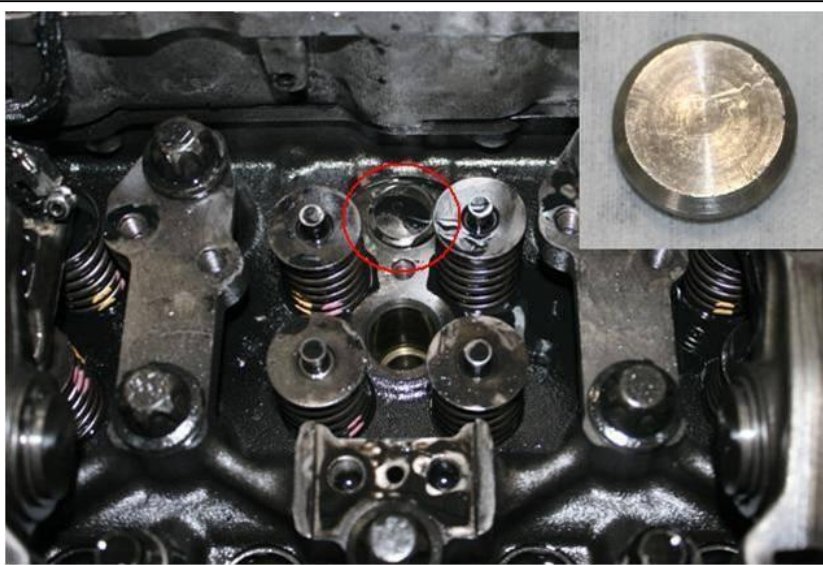


Figure 1:
1. Injector Hold Down Spacer



Figure 2:
1. 11L Head Gasket



Figure 3:
1. 13L Head Gasket

 Hide Details

Feedback Information

Viewed: 1438
Helpful: 13
Not Helpful: 0

No Feedback Found