



Countries:	CANADA, COLOMBIA, UNITED STATES, PUERTO RICO	Document ID:	IK0700058
Availability:	ISIS, FleetSIS	Revision:	2
Major System:	EXHAUST	Created:	4/25/2013
Current Language:	English	Last Modified:	10/21/2014
Other Languages:	NONE	Author:	Steve Kueller
Viewed:	3123		

[Less Info](#)

Hide Details

Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		 View My Bookmarks				 25	 51

Title: Exhaust Leak Troubleshooting for 2010 Emission MF IBB Engines

Applies To: 2010 and later HD models

DESCRIPTION

Driver may complain of odor entering the cab but no leak path is visible.

TROUBLESHOOTING

- Visually inspect Turbo Pipe for rubbing frame, cab, crossmember or other objects. If signs of rubbing are present:
 - Inspect engine mounts for excessive wear or cracking.
 - Inspect proper gap at the lower washer
 - Front Mount 0.050 (3/64+) inch nominal with a permissible range of 0.015 to 0.085 inch.
 - Rear Mount 0.085 (5/64+) inch nominal with a permissible range of 0.015 to 0.155 inch.

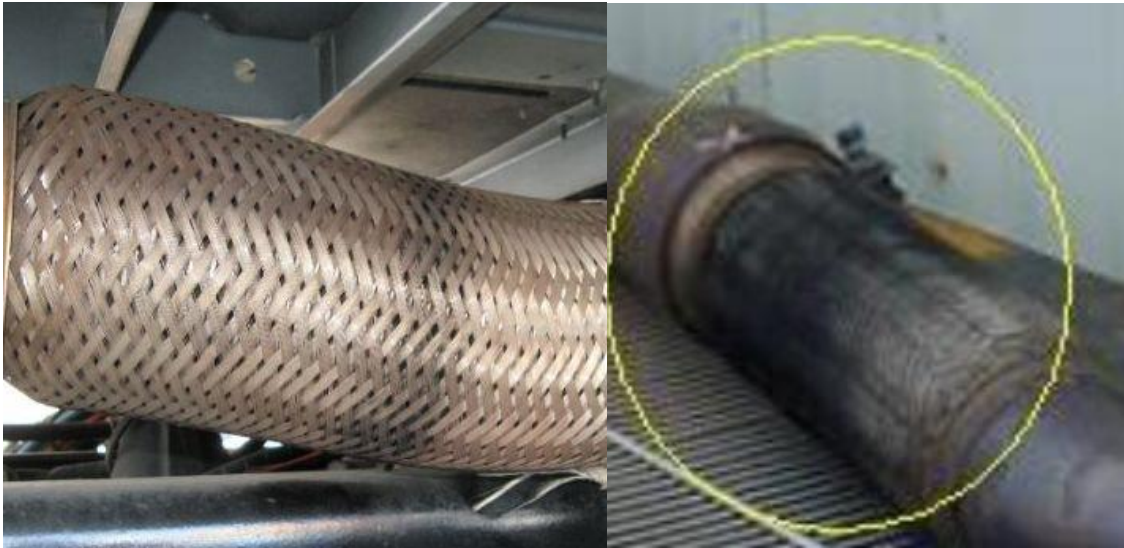
Visually Inspect all pipe joints carefully for loose or missing clamps and signs of exhaust soot present. Note that 2010 pipes use a Marmon style V band clamp design @ the joint between the intermediate pipe to the turbo pipe joint if so equipped rather than the prior Torca slot slip joint design. This design also uses a gasket to seal the joint in most cases

Marmon Style Clamps



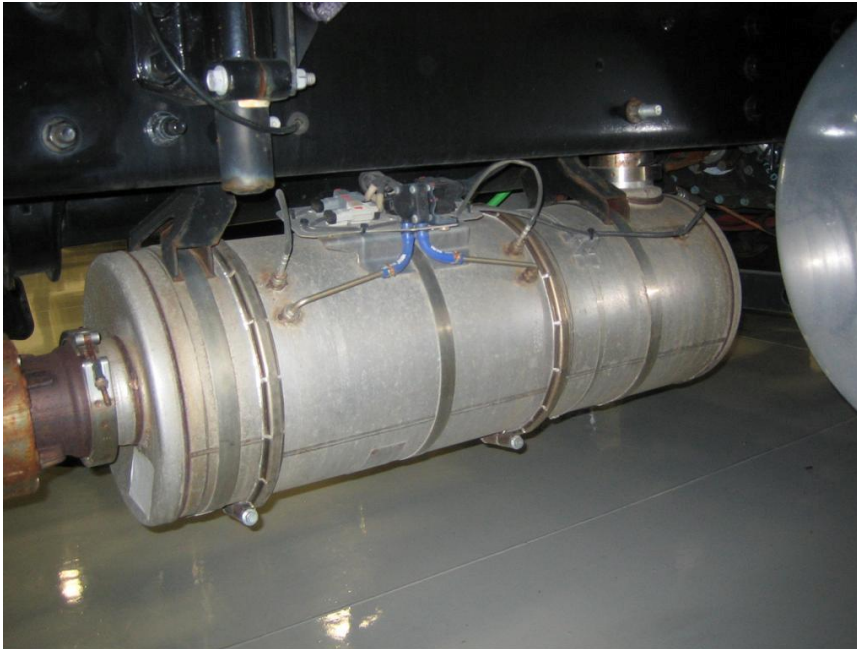
- Visually Inspect all pipes for damage or visible cracks.
- Inspect to verify that the PDOC clamp is in place. If broken or missing it is very important to install the V-Band clamp listed in parts section.
- Carefully Inspect flexible section (bellows) for signs of soot as the bellows can crack internally and allow exhaust gases to escape.
 - If there is a soot ring in the center of the bellows suspect that the bellows is cracked
 - If heavy soot is present in center section of bellows suspect that the bellows is cracked
 - If soot is only in weld area at either end of bellows suspect a pin hole or poor weld

Soot on Bellows section

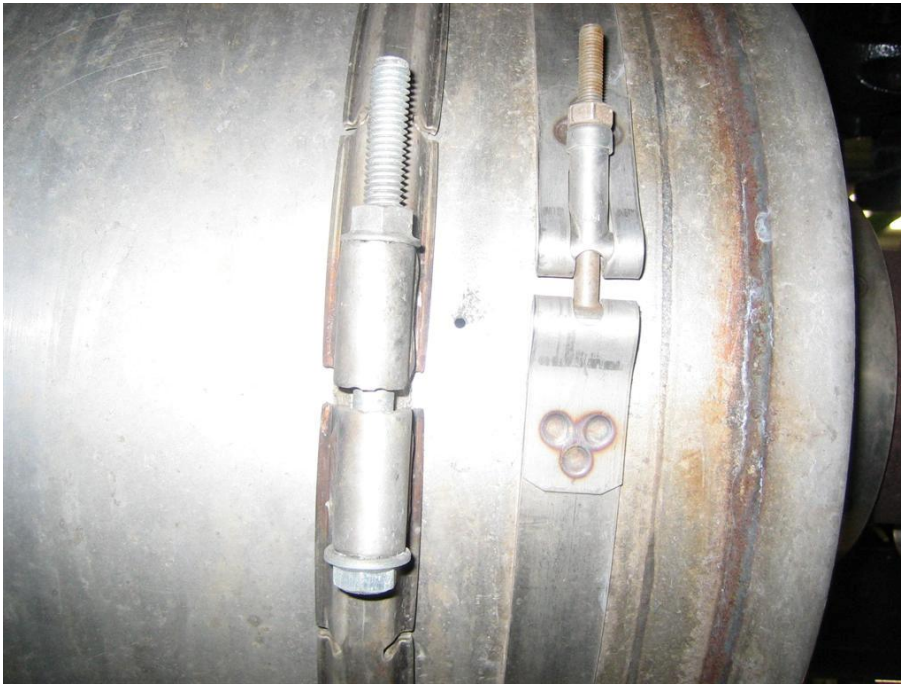


- Visually inspect the aftertreatment assembly for loose clamps, cracks or signs of leaks. There is a drain on the outlet can of horizontal systems a small leak is normal at this position.

Horizontal assembly inspect clamps for leaks



Drain Hole located on outlet between clamps should point down.



- **If no leaks are apparent it may be necessary to perform a stationary regen using a service tool to find the leak. Perform OBFCT and check for leaks.**

PARTS INFORMATION

Part #	Description	Qty.
3017638C1	clamp v-band	1
3846392C1	Gasket, Exhaust Pipe Flange	
2512967C91	turbo pipe assy/prostar 2010	1

REPAIR PROCEDURE

Once leaks are verified repair accordingly.

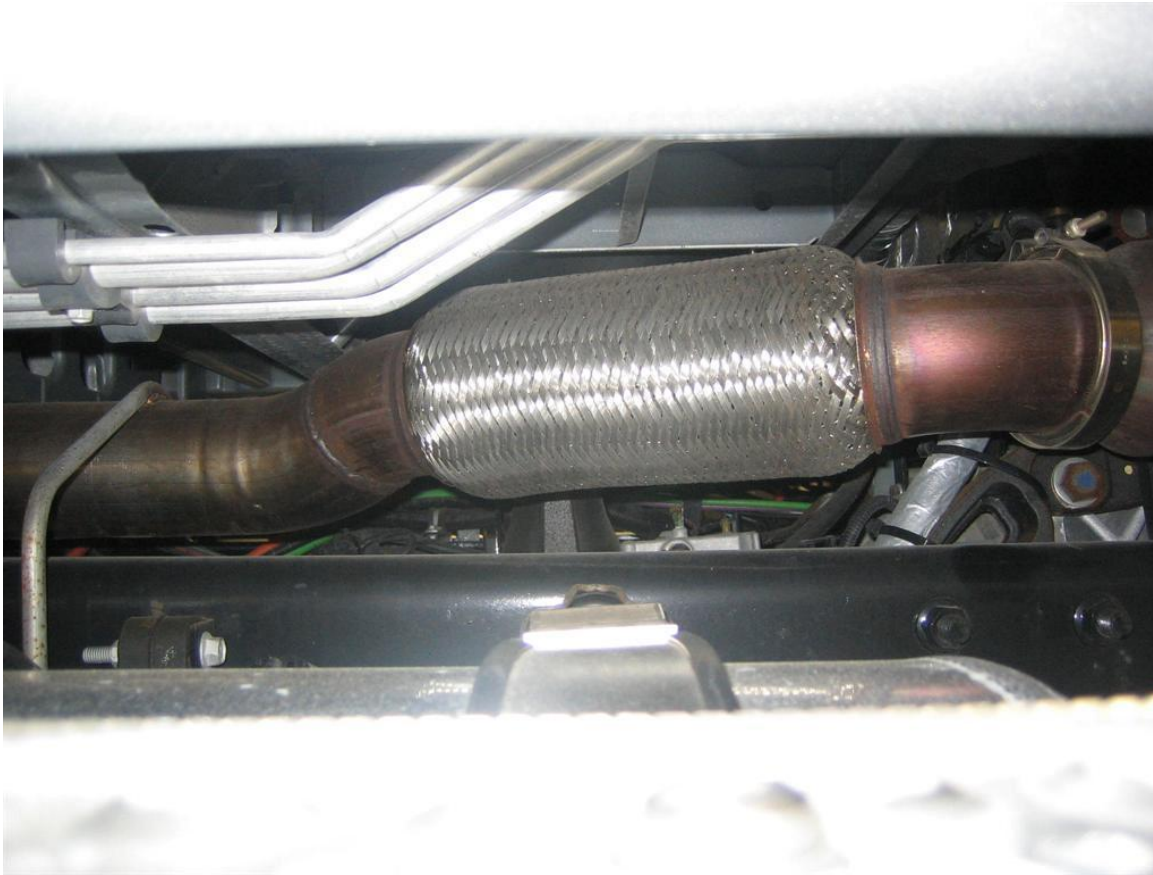
- **If leak is found at Marmon Joints**
 - Remove clamp
 - Inspect joint mounting flanges for damage. Replace any damaged part as necessary
 - Inspect clamp for damage. Replace as required
 - Install new gasket as required
 - Connect mating flanges and install clamp over Marmon joint.
 - Verify that bellows/flexible section of pipe is relaxed and aligned. If not loosen rear clamp at intermediate pipe or inlet to the aftertreatment assembly and adjust the pipe so that the flex section is as straight as possible.
 - Secure Clamps

If leaks are found on the turbo pipe at the flex section, weld areas or cracked the pipe will need to be replaced.

- Remove clamps from both ends of the pipe

- Install replacement pipe and gaskets as needed secure the Marmon clamps over the joints
- Verify the flex section is relaxed and the pipe is aligned
- Secure the clamps

Flex pipe installed relaxed positioning:



WARRANTY INFORMATION

Warranty Claim Coding:

Group:	07015 Exhaust Pipes
Noun:	824 Flex

Standard Repair Time(s):

Step	Description	Chassis	Engine	SRT	Hours
N/A	Trubo Down Pipe, Replace	Prostar	MF13	R07-3824U	0.7

Claim SRT Example:

Not Applicable

Claim Comment Suggestion:

Not Applicable

Special Requirement(s):

Not Applicable

OTHER RESOURCES

[Master Service Information Site](#)

 Hide Details

Feedback Information

Viewed: 3122
Helpful: 25
Not Helpful: 51

No Feedback Found

Copyright © 2014 Navistar, Inc.