

Bulletin No.: PIP5748D Published date: 12/11/2020

## **Preliminary Information**

# PIP5748D Particulate Matter Sensor Protection Tube Performance Diagnostic May Set A False DTC P1488 or P24DA

#### Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to	crigine.	Halisillissions.
Cadillac	Escalade Models	2021	ALL	ALL	LM2	All
Chevrolet	Silverado	2020	ALL	ALL	LM2	All
Chevrolet	Suburban	2021	ALL	ALL	LM2	All
Chevrolet	Tahoe	2021	ALL	ALL	LM2	All
GMC	Sierra	2020	ALL	ALL	LM2	All
GMC	Yukon models	2021	ALL	ALL	LM2	All

Involved Region or Country:	North America
	The Particulate Matter Sensor Protection Tube Performance diagnostic may
Condition:	falsely fail, causing DTC P1488 or P24DA to set and command the Malfunction
	Indicator Lamp (MIL) to illuminate.
Cause:	This condition is currently under investigation by engineering.

#### Correction:

If the vehicle has set DTC P1488 or P24DA, check to see if the particulate matter sensor is loose in the exhaust pipe. If so, this PI does not apply.

If the sensor is properly torqued and the P1488 or P24DA has requested the MIL, test the entire exhaust for leaks, and check for proper alignment of the tailpipe assembly to the under-floor SCR (this is a critical angle).

To test for leaks in the exhaust use the Power Smoke diagnostic leak detector (GE-52250 - refer to the latest version of PIP5684), but there are two important considerations. The smoke from the tester may not get through the DPF, so to test downstream of the DPF, administer the smoke downstream of the DPF. Also, the tailpipe sealing bladder doesn't reach the exhaust cooler so use duct tape around the pipe to seal the cooler holes. Repair any leaks as necessary but pay particular attention to the joint illustrated in the pictures below.

If this joint is leaking the clamp may have bottomed out before applying sufficient clamp load to the joint, or damage may have occurred from mis-alignment of the joint. Also, misalignment of the joint may contribute to the P1488/P24DA setting, even if the joint does not leak.

Separate the joint and check the witness marks for proper alignment. If the joint was found to be leaking, also inspect for deformations to either half of the joint and replace the components as necessary. If the clamp was found to be bottomed out, replace the clamp.

Be certain to remove the duct tape from the exhaust cooler.

Also replace the particulate matter sensor.

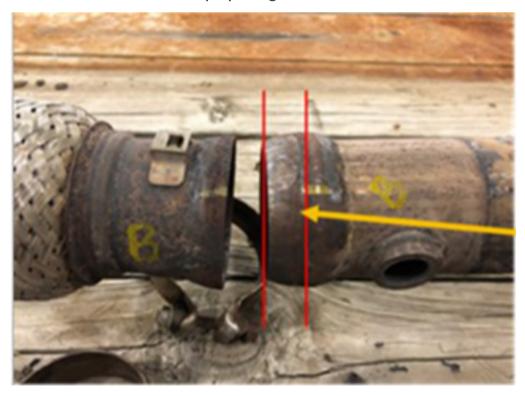
Note: This PI will be updated or replaced by a bulletin as additional information becomes available.

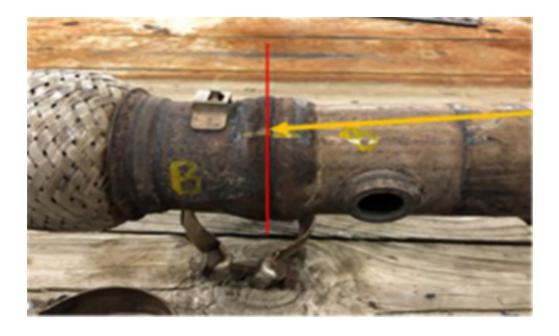
Please ensure you use the special labor operation for this concern.



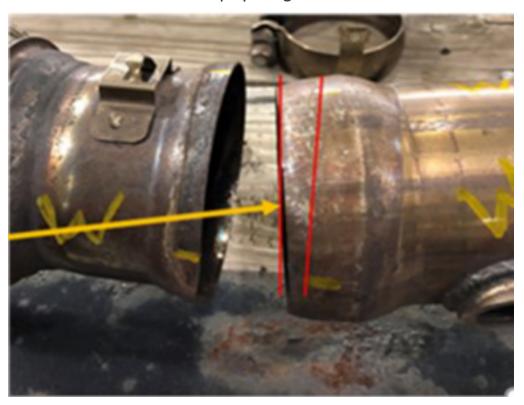


These witness marks indicate proper alignment





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## Parts Information

Description Part Number		QTY		
Exhaust	84283544	1		
Clamp	04203344	1		

## Warranty Information

For vehicles repaired under the Emissions (E,E2) coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation:	Description:	Labor Time:
4087528	Exhaust Particulate Sensor Replacement	.4 Hours
ADD	Diagnostic Time (includes inspection)	05 Hours
*This is a unique Labor Operation for Bulletin use only.		

### <u>Version History</u>

Version	5
	08/20/2020 - Created on.
	09/25/2020 - Updated to include inspecting for an exhaust leak and add
Modified	pictures.
Wodified	10/20/2020 - Updated to modify the exhaust pipe sealing procedure.
	11/18/2020 - Updated to provide exhaust alignment details
	12/11/2020 - Updated to add models



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