

## Technical Service Bulletin (TSB) Cold Engine Ticking Noise

<b>REFERENCE:</b>	<b>TSB:</b> 09-001-24 <b>GROUP:</b> 09 - Engine	<b>Date:</b>	January 20, 2024	<b>REVISION:</b>	09-011-22
<b>VEHICLES AFFECTED:</b>	<b>**2019 - 2024** (DT) Ram 1500 Pickup</b> This bulletin applies to vehicles equipped with a 5.7L V8 Hemi MDS VVT Etorque Engine (Sales Code EZL) and a 5.7L V8 Hemi MDS VVT Engine (Sales Code EZH).			<b>MARKET APPLICABILITY:</b> <input checked="" type="checkbox"/> NA <input checked="" type="checkbox"/> MEA <input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> IAP <input checked="" type="checkbox"/> EE <input type="checkbox"/> CH	
<b>CUSTOMER SYMPTOM:</b>	The customer may describe a ticking noise from the exhaust manifold location(s) when cold.				
<b>CAUSE:</b>	Exhaust manifold.				

This bulletin supersedes Technical Service Bulletin (TSB) 09-011-22, date of issue September 03, 2022, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include new vehicle years.

### REPAIR SUMMARY:

This bulletin involves replacing the exhaust manifolds.

### CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-45-01-A4	Exhaust Manifold - Replace (Both Sides)(1 - Semi-Skilled)	1 - Engine Repair and Performance	4.5 Hrs.
09-45-01-A3	Exhaust Manifold - Replace (Right Side Only) (1 - Semi-Skilled)	1 - Engine Repair and Performance	3.1 Hrs.
09-45-01-A2	Exhaust Manifold - Replace (Left Side Only) (1 - Semi-Skilled)	1 - Engine Repair and Performance	3.4 Hrs.
Failure Code	ZZ	Service Action	

### OPTIONAL EQUIPMENT:

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-45-01-67	4X4 Equipped	1 - Engine Repair and Performance	0.9 Hrs.

**SPARE PARTS:**

Qty	Part No.	Description	Notes
1 (AR)	68591572AA	RH Exhaust Manifold Kit	
1 (AR)	68591572AA	LH Exhaust Manifold Kit	

**DIAGNOSIS:**

If the customer describes the symptom/condition listed above, perform the Repair Procedure.

**REPAIR PROCEDURE:**

1. Start the vehicle cold. Listen for ticking noise that stops after engine is warmed up.
2. Shut engine off and allow engine to cool.
3. Remove exhaust manifold heat shield(s) from the side that is suspect to be leaking for manifold inspection .
4. Re-start cold engine and listen for noise source at exhaust manifold area.
5. Visually inspect for a cracked manifold and confirm it is not a casting parting line or casting fin in location shown. [Fig. 1](#)



**Fig. 1**  
Exhaust Manifold Area

1- Manifold Crack Area



**Fig. 2**  
Exhaust Manifold Crack

6. If a cracked manifold is found, replace the exhaust manifold(s) that are cracked. Refer to the detailed service procedures available in DealerCONNECT>Service Library under: 09 - Engine, 5.7L / Manifolds / Manifold, Exhaust / Removal and Installation.

**NOTE: Replace all fasteners to prevent bottoming in cylinder head. Fasteners were lengthened 6mm (Approximately 1/4 inch) when tie bars were added to exhaust manifolds.**

**NOTE: Use all kit components. Exhaust manifold, gasket, fasteners, heat shield and tie bar.**

**NOTE: Tie bars in kit must be used even if there were no tie bars originally.**

**NOTE: Right side fastener 06510140AA (front-most fastener) is 5mm (3/16 inch) shorter than other fasteners.**

**POLICY:**

Reimbursable within the provisions of the warranty.

*This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without written permission of FCA US LLC.*