

**Technical Service Bulletin (TSB)**  
**Crank Gear Flange Dislocation**

<b>REFERENCE:</b>	<b>TSB:</b> 09-014-24 REV. A <b>GROUP:</b> 09 - Engine	<b>Date:</b>	September 27, 2024	<b>REVISION:</b>	09-014-24
<b>VEHICLES AFFECTED:</b>	<b>2023 - 2024 (H6) Jeep Meridian</b> <b>2023 - 2024 (M6) Jeep Compass</b> This bulletin applies to the following vehicles built on or after February 02, 2023 (MDH 0202XX) on or before February 24, 2024 (MDH 0224XX) equipped with a 2.0L I4 Turbo Diesel Engine With/ESS (Sales Code EBS).	<b>MARKET APPLICABILITY:</b>			
		<input type="checkbox"/> NA <input type="checkbox"/> MEA <input type="checkbox"/> SA <input checked="" type="checkbox"/> IAP <input type="checkbox"/> EE <input type="checkbox"/> CH			
<b>CUSTOMER SYMPTOM:</b>	<b>Customers may experience one or more of the following:</b> <ul style="list-style-type: none"> <li>• Vehicle does not start due to crank gear flanged dislocated.</li> <li>• Abnormal noise from the engine compartment.</li> <li>• Noise from the timing cover area.</li> </ul>				
<b>CAUSE:</b>	Manufacturing issue				

This bulletin supersedes Technical Service Bulletin (TSB) 09-014-24, date of issue May 18, 2024, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include an additional part and updated Repair Summary, Repair Procedure figure and steps.

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 24-090, date of issue May 18, 2024. All applicable RSU VINs have been loaded. To verify this RSU service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty.

**REPAIR SUMMARY:**

This bulletin involves inspecting the timing belt position and possibly replacing the timing belt **\*\*and tensioner assemblies\*\***.

**CLAIMS DATA:**

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-10-02-90	Timing Belt, Inspect and Tighten Spacer (2 - Skilled)	1 - Engine Repair and Performance	0.6 Hrs.
09-10-02-91	Timing Belt, Inspect, Remove and Install or Replace (2 - Skilled)	1 - Engine Repair and Performance	3.5 Hrs.
Failure Code	ZZ	Service Action	

**SPARE PARTS:**

**NOTE: Dealer will replace the listed parts only if anything is found damaged while performing this Repair Procedure.**

Qty	Part No.	Description	Notes
**1 (AR)	68639212AA - NA 46353931 - EMEA	Bracket, Tensioner Support**	
1 (AR)	68639008AA - NA 46353914 - EMEA	Cover, Timing Belt	Outer Upper
1 (AR)	68639014AA - NA 46353915 - EMEA	Cover, Timing Belt	Inboard
3 (AR)	68129578AA - NA 14942224 - EMEA	Bolt, Hex Head	
1 (AR)	68640052AA - NA 46346957 - EMEA	Belt, Timing	
1 (AR)	68639206AA - NA 46354121 - EMEA	Sprocket, Crankshaft	
**2 (AR)**	68228096AA - NA 55249565 - EMEA	Plug, M6 X 1.50	
1 (AR)	68163848AB - NA 59117409 - IAP	Mopar Antifreeze/Coolant 10 Year 150,000 Mile Formula OAT	Local Part

**DIAGNOSIS:**

If a customer's VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits any of the symptom listed above in the customer symptom section, perform the Repair Procedure.

**REPAIR PROCEDURE:**

1. Remove the air cleaner. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine / Air Intake System / Air Cleaner / Removal.
2. Remove the fuel filter. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 14 - Fuel System / Fuel Delivery, Diesel / Filter, Fuel / Removal.

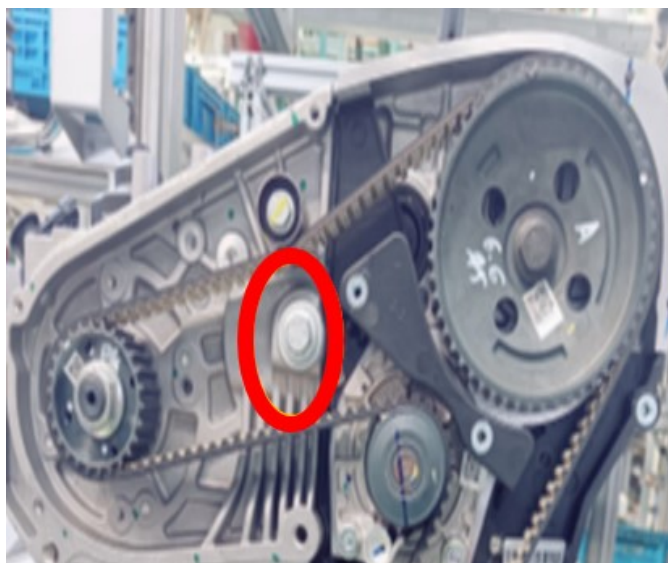
3. Remove and **DISCARD** the upper timing cover bolts and remove the upper timing belt cover [Fig. 1](#).



**Fig. 1**  
Upper Timing Cover

**NOTE: Do not remove the timing belt after removing the cover.**

4. Remove the mounting bolt [Fig. 2](#).



**Fig. 2**  
Mounting Bolt

5. Loosen the Puma bolt and then tighten **\*\*(clockwise)\*\*** the Puma bolt spacer to **\*\*14 N·m. (123 in. lbs.)\*\*** Fig. 3.

**NOTE: \*\*Ensure that the Puma bolt spacer butt on the cylinder head is positioned correctly Fig. 4.\*\***



**Fig. 3**  
Puma Bolt Loosening



**Fig. 4**  
**\*\*Correct Puma Bolt Spacer Orientation\*\***

6. Install the mounting bolt and tighten the bolt to 50 N·m (37 ft. lbs.) [Fig. 5](#).



**Fig. 5**  
Puma Bolt Tightening

7. Rotate the engine 360 degree and check the belt position gap from the cam gear face to the belt face using a Vernier Caliper [Fig. 6](#).



**Fig. 6**  
Vernier Caliper Inspection

8. Is the gap between the cam gear face and the belt face more than 3 mm (0.1 in.) [Fig. 7](#)?

- YES >>> Proceed to [Step 9](#).
- NO >>> Proceed to [Step 13](#).



**Fig. 7**

Gap Inspection

9. Remove and reinstall the timing belt. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine / Valve Timing / Belt, Timing / Removal and Installation.
10. Rotate the engine 360 degrees and recheck the belt position gap from the cam gear face to the belt face using a Vernier Caliper [Fig. 6](#).
11. Is the gap between the cam gear face and the belt face still more than 3 mm (0.1 in.) [Fig. 7](#)?
- YES >>> \*\*Proceed to [Step 12](#)\*\*.
  - NO >>> Proceed to [Step 13](#).
12. \*\*Replace the tensioner bracket assembly. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine / Valve Timing / Tensioner, Engine Timing / Removal and Installation\*\*.
13. Install the timing cover and tighten the mounting bolts to 9 N·m. (80 in. lbs.) [Fig. 1](#).
14. Install the fuel filter. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 14 - Fuel System / Fuel Delivery, Diesel / Filter, Fuel / Installation.
15. Install the air cleaner. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine / Air Intake System / Air Cleaner / Installation.

## **POLICY:**

Reimbursable within the provisions of the warranty.

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