

**Technical Service Bulletin (TSB)**  
**Umbrella Valve Seal Missing From Cylinder  
Head Cover - UNSOLD POPULATION ONLY**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| REFERENCE:         | TSB: 09-020-26<br>GROUP: 09 - Engine                                                                                                                                                                                                                                                                                                                                                                                             | Date: | August 20, 2026 | REVISION:                                                                                                                                                                                                                                                                                                                                                                                                                   | — |
| VEHICLES AFFECTED: | 2026 - 2027 (WL) Jeep Grand Cherokee / Grand Cherokee L<br>This bulletin applies to vehicles built on or before August 31, 2026 (MDH 0831XX) equipped with a 2.0L Hurricane 4 Turbo W/ESS (Sales Code EC7).                                                                                                                                                                                                                      |       |                 | MARKET APPLICABILITY:<br><div><input checked="" type="checkbox"/> NA<input checked="" type="checkbox"/> MEA</div> <div><input checked="" type="checkbox"/> EE<input checked="" type="checkbox"/> IAP</div> <div><input checked="" type="checkbox"/> SA<input type="checkbox"/> CH</div><br>NOTE: This bulletin applies to North and South America, Enlarged Europe, Middle East & Africa, and India & Asia Pacific markets. |   |
| CUSTOMER SYMPTOM:  | Vehicle may exhibit a MIL-ON.<br>Upon inspection the technician may find that one or more of the following Diagnostic Trouble Codes (DTCs) have set: <ul style="list-style-type: none"><li>• P0300-00 - Random/Multiple Cylinder Misfire Detected.</li><li>• P0301-00 - Cylinder 1 Misfire.</li><li>• P0302-00 - Cylinder 2 Misfire.</li><li>• P0303-00 - Cylinder 3 Misfire.</li><li>• P0304-00 - Cylinder 4 Misfire.</li></ul> |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| CAUSE:             | Cover Cylinder Head Umbrella valve seal missing                                                                                                                                                                                                                                                                                                                                                                                  |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |   |

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 26-159, date of issue August 20, 2026. 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 for a missing umbrella valve seal on the underside of the cylinder head cover and, if necessary, replacing the cylinder head cover.

**CLAIMS DATA:**

| Labor Operation No: | Labor Description                                                   | Skill Category                    | Labor Time |
|---------------------|---------------------------------------------------------------------|-----------------------------------|------------|
| 09-35-20-9A         | Inspect Umbrella Seal<br>(1 - Introduction)                         | 1 - Engine Repair and Performance | 0.2 Hrs.   |
| 09-35-20-9B         | Cover, Cylinder Head -<br>Inspect and Replace<br>(1 - Introduction) | 1 - Engine Repair and Performance | 1.3 Hrs.   |
| Failure Code        | ZY                                                                  | Service Action                    |            |

**SPARE PARTS:**

| Qty    | Part No.   | Description                    | Notes |
|--------|------------|--------------------------------|-------|
| 1 (AR) | 05048988AJ | Cover, Cylinder Head, Assembly |       |
| (AR)   | 50022689AA | Engine Oil, 5W30, Quart        |       |
| (AR)   | 68082860AB | Mopar Threebond Engine RTV     |       |

**DIAGNOSIS:**

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

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 symptoms listed above in the customer symptom section, perform the Repair Procedure.

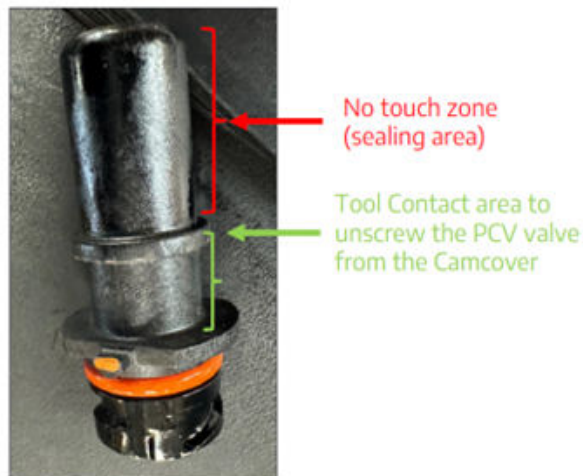
**SPECIAL TOOLS/EQUIPMENT:**

| Description          | Ref. No. | Notes |
|----------------------|----------|-------|
| wiTECH or Equivalent | -        | -     |
| Borescope            | NPN      |       |

## REPAIR PROCEDURE:

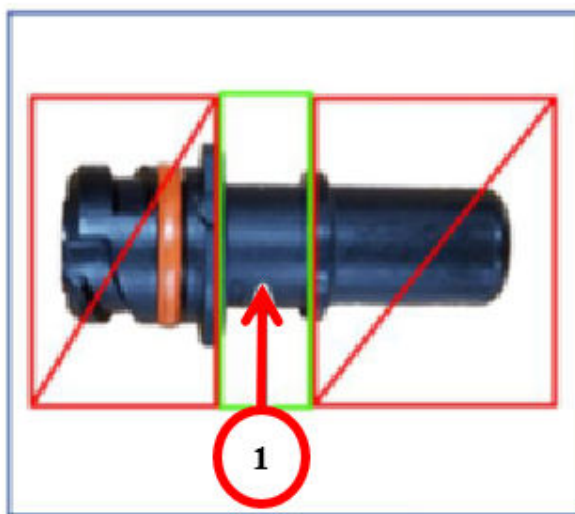
1. Remove the Positive Crankcase Ventilation (PCV) valve. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 25 - Emissions Control / Crankcase Ventilation / Valve, Positive Crankcase Ventilation (PCV) / Removal and Installation.

**NOTE:** Be sure to follow warnings regarding location on the PCV valve where tool contact should be avoided [Fig. 1](#).



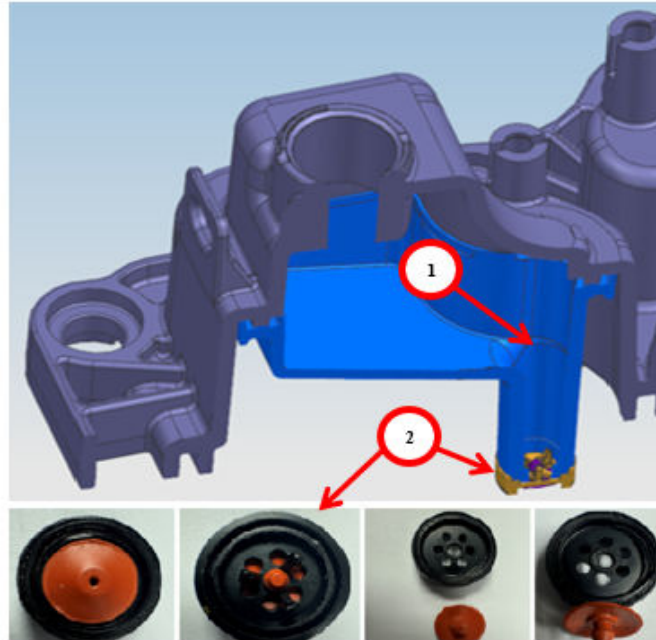
**Fig. 1**  
PCV Valve During Removal

**NOTE:** Use a pair of thin nosed pliers inserted into the approved zone on the PCV valve for removal [Fig. 2](#).



**Fig. 2**  
Approved Zone - PCV Valve Removal

2. With the PCV valve removed, insert a borescope into the PCV valve opening [Fig. 3](#) to inspect if the umbrella valve is missing or present [Fig. 4](#) [Fig. 5](#).



**Fig. 3**  
Borescope to PCV Valve Opening

1 - PCV Valve Chamber - PCV Valve Removed  
2 - Umbrella Valve Seal



**Fig. 4**  
Umbrella Valve Seal - Missing



**Fig. 5**  
Umbrella Valve Seal - Present

3. Is the umbrella valve seal missing [Fig. 4](#)?
  - YES>>> Replace the cylinder head cover assembly. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine, 2.0L / Cylinder Head / Cover(s), Cylinder Head / Removal and Installation and then proceed to [Step 4](#).
  - NO>>> This bulletin has been completed. Use Inspection LOP (09-35-20-98) to close the active RSU.
4. Ensure that the engine oil level is to proper specification.
5. Using wiTECH, perform the PCM Reset ECU routine. Navigate to **Guided Diagnostics > Reset ECU**, select **PCM**, and follow the on-screen instructions to complete the procedure.
6. Clear DTCs.

**NOTE: For SA market only, after applying this TSB, it is not necessary to send DID-I or DID-A.**

#### **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.*