

Technical Service Bulletin (TSB)

Umbrella Valve Seal Missing From Cylinder Head Cover

REFERENCE:	TSB: 09-017-26 GROUP: 09 - Engine	Date:	August 5, 2026	REVISION:	—
VEHICLES AFFECTED:	2026 - 2027 (WL) Jeep Grand Cherokee / Grand Cherokee L This bulletin applies to vehicles built on or before August 15, 2026 (MDH 0815XX) equipped with a 2.0L Hurricane 4 Turbo W/ESS (Sales Code EC7).			MARKET APPLICABILITY: ☒ NA☐ MEA ☐ EE☐ IAP ☐ SA☐ CH NOTE: This bulletin applies to North America markets.	
CUSTOMER SYMPTOM:	Customer may experience a MIL-ON and/or an indication of low engine oil level. Upon inspection the technician may find the following: 1. One or more of the following Diagnostic Trouble Codes (DTCs) have set: - P0300-00 - Random/Multiple Cylinder Misfire Detected. - P0301-00 - Cylinder 1 Misfire. - P0302-00 - Cylinder 2 Misfire. - P0303-00 - Cylinder 3 Misfire. - P0304-00 - Cylinder 4 Misfire. 2. Engine oil level is low. IMPORTANT! If none of above symptoms are present, this TSB does NOT apply.				
CAUSE:	Cover Cylinder Head Umbrella valve seal missing				

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 26-147, date of issue August 05, 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 the engine oil level, possibly 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
09-35-20-98	Inspect Oil Level and Verify Umbrella Seal is Present (1 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.
09-35-20-99	Cover, Cylinder Head - Inspect and Replace (1 - Introduction)	1 - Engine Repair and Performance	1.3 Hrs.
Failure Code	ZY	Service Action	

RELATED LOP(S):

Labor Operation No:	Labor Description	Skill Category	Labor Time
09-35-20-50	Spark Plugs, Main Chamber, Replace (1 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.

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. Inspect the engine oil level [Fig. 1](#).

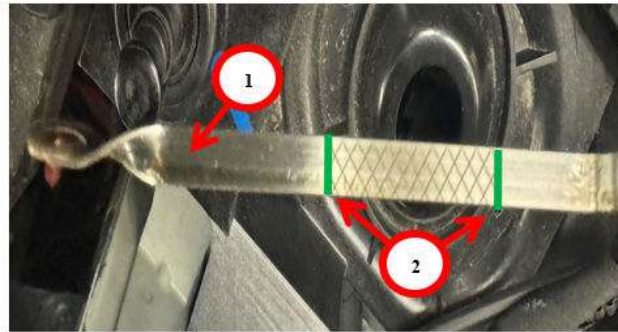


Fig. 1
Oil Level Inspection

1 - Oil Level - Low
2 - Oil Level - Acceptable Range

2. Is the oil level low [Fig. 1](#)?
 - YES>>> Proceed to [Step 3](#).
 - NO>>> This bulletin has been completed. Use Inspection LOP 09-35-20-98) to close the active RSU.
Refer to service library for further misfire diagnosis.

NOTE: Vehicles exhibiting misfire DTCs alone without low oil level are not candidates for this procedure.

3. If the engine oil level is found to be low, 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: Cowl extension silencer removal is NOT necessary as outlined in the service procedure.

NOTE: Be sure to follow warnings regarding location on the PCV valve where tool contact should be avoided [Fig. 2](#).



Fig. 2
PCV Valve During Removal

NOTE: Use a pair of thin nosed pliers inserted into the approved zone on the PCV valve for removal [Fig. 3](#).

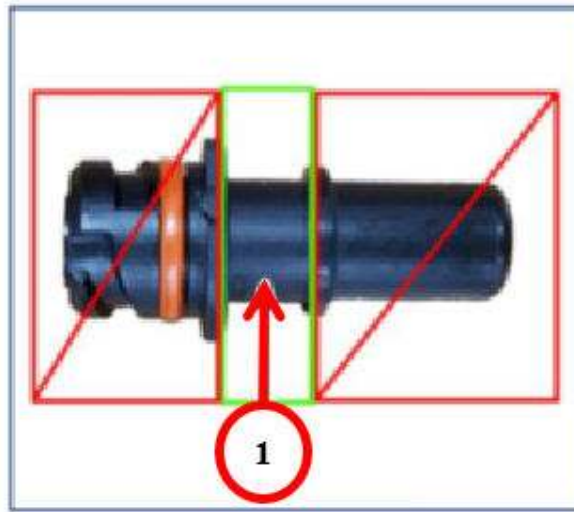


Fig. 3
Approved Zone - PCV Valve Removal

1 - Approved Zone In Green

4. With the PCV valve removed, insert a borescope into the PCV valve opening [Fig. 4](#) to inspect if the umbrella valve is missing or present [Fig. 5](#) [Fig. 6](#).

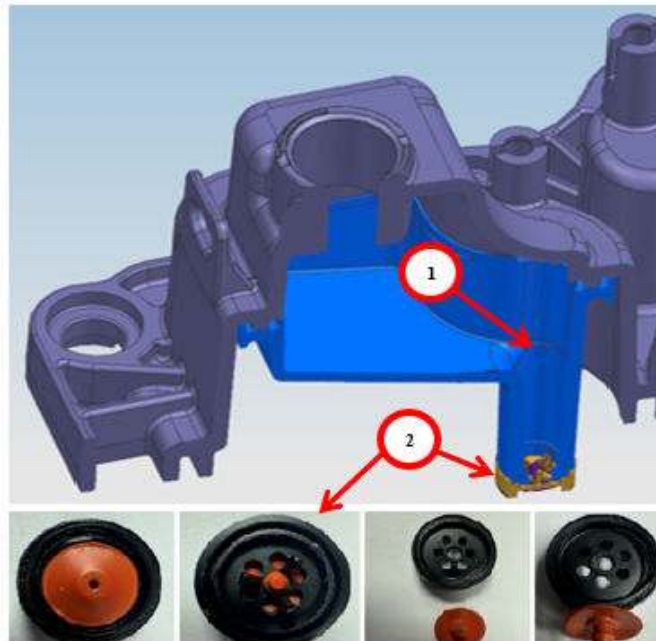


Fig. 4
Borescope to PCV Valve Opening

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



Fig. 5
Umbrella Valve Seal - Missing



Fig. 6
Umbrella Valve Seal - Present

5. Is the umbrella valve seal missing [Fig. 5](#)?
 - 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 6](#).
 - NO>>> This bulletin has been completed. Use Inspection LOP (09-35-20-98) to close the active RSU.
Perform further oil consumption diagnosis as required.
6. Ensure that the engine oil level is to proper specification.
7. Clear DTC's.
8. Using wiTECH, perform the "Engine Roughness" adaptive reset routine located in the PCM → Misc Functions → Reset Memory menu.

POLICY:

Reimbursable within the provisions of the warranty.

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