

Technical Service Bulletin (TSB)  
Engine Coolant Leak

<b>REFERENCE:</b>	<b>TSB:</b> 07-005-23 <b>GROUP</b> 07 - Cooling	<b>Date:</b>	May 10, 2023	<b>REVISION:</b>	
<b>VEHICLES AFFECTED:</b>	<b>2023 (WL) Grand Cherokee</b> This bulletin applies to vehicle built on or after November 25, 2022 (MDH 1125XX) and on and before December 08, 2022 (MDH 1208XX) equipped with 3.6L V6 VVT Engine Upgrade 1 (Sales Code ERC).	<b>MARKET APPLICABILITY:</b>			
<b>CUSTOMER SYMPTOM:</b>	Coolant leak under vehicle and/or low coolant warning on dash.				
<b>CAUSE:</b>	Broken lock ring on Engine Coolant Temperature (ECT) sensor.				

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-134, date of issue May 10, 2023. 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. This RSU will expire 18 months after the date of issue.

**REPAIR SUMMARY:**

This bulletin involves inspecting and replacing the ECT sensor if required.

**CLAIMS DATA:**

Labor Operation No:	Labor Description	Skill Category	Labor Time
08-14-20-91	Sensor, Engine Coolant Temperature (ECT), Inspect (1 - Semi-Skilled)	1 - Engine Repair and Performance	0.2 Hrs.
08-14-20-92	Sensor, Engine Coolant Temperature (ECT), Inspect and Replace (1 - Semi-Skilled)	1 - Engine Repair and Performance	1.0 Hrs.
Failure code	ZZ	Service Action	

**SPARE PARTS:**

Qty	Part No.	Description	Notes
1 (AR)	68217702AD	Sensor, Engine Coolant Temperature	
(AR)	68163849AB	Coolant	One Gallon

**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.

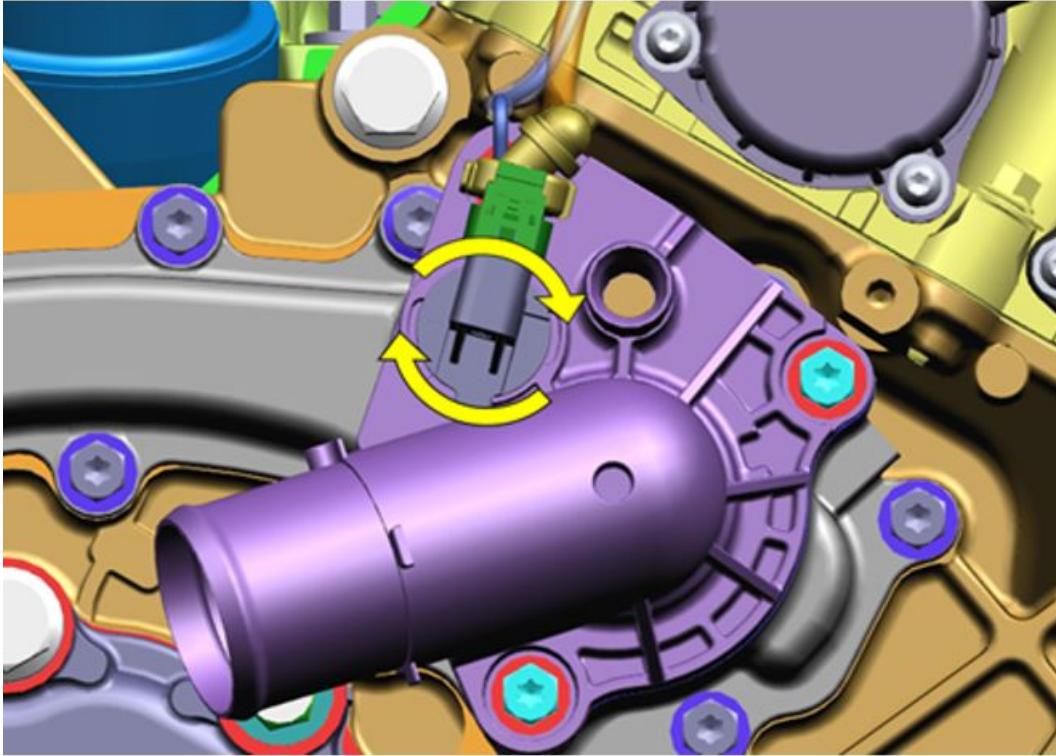
If a customer's VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits any of the symptoms listed above in the customer symptom section, perform the Repair Procedure.

**REPAIR PROCEDURE:**

1. Open hood and remove engine cover.

**NOTE: Do not use heavy force when attempting to rotate the sensor. Only light effort is needed when inspecting the ECT.**

2. Hold the ECT sensor and **gently** attempt to rotate it clockwise and then counterclockwise. If the sensor rotates, then it has failed ([Fig. 1](#)).



**Fig. 1**  
**ECT Sensor Location**

3. Can the ECT sensor be rotated **easily**?
  - YES>>> Proceed to [Step 5](#).
  - NO>>> This bulletin has been completed. Use inspect LOP (08-14-20-91) to close this active RSU.
4. Disconnect the battery. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure

**NOTE: Use lower radiator hose procedure to partially drain the coolant.**

**NOTE: Removal of the air tube and air cleaner resonator may not be needed to gain access to the ECT sensor.**

5. Replace the ECT sensor. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 09 - Engine, 3.6L / Engine Sensors / Removal and Installation - Engine Coolant Temperature Sensor.
6. Connect the battery. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info> 08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure

**POLICY:**

Reimbursable within the provisions of the warranty.

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