

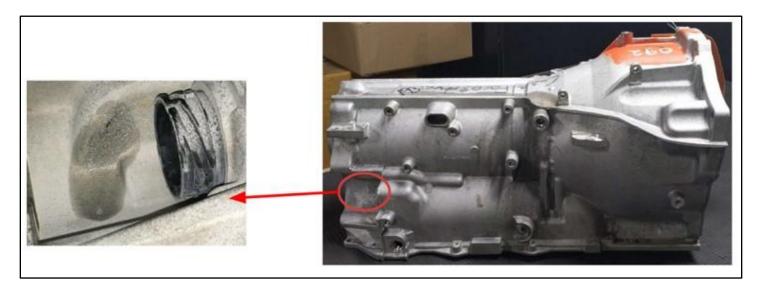
Case Number: S2221000003 REV. A

**Release Date: September 2023** 

**Symptom/Vehicle Issue:** 8-Speed Transmission, Additional Transmission Fluid Leak Inspection/Repair Guidelines.

**Discussion**: Reports are being received of various transmission fluid leaks that are being misdiagnosed as leaking transmission pans/pan gaskets. Below are some examples of potential leak points that can be easily mistaken for a transmission pan leak, along with guidelines on how to properly diagnose and repair them.

**Leak Area #1:** The first potential leak point is at the transmission case near the electrical connector. Please see (Figure 1).

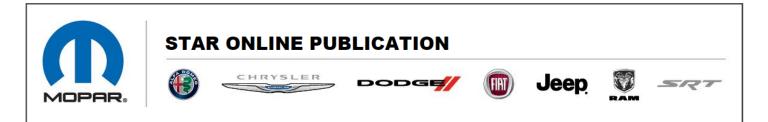


## Figure 1.

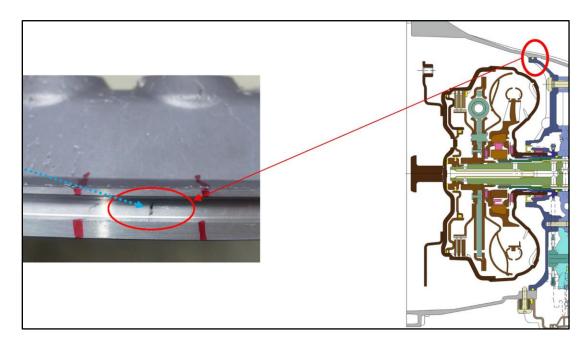
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Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.

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**Leak Area #2:** The second potential leak point is from either the torque converter area or the lower bell housing area. Please see (Figure 2).





**Leak Area #3:** The last potential leak point is from the Transmission Oil Heater (TOH) boss. Please see (Figure 3).

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Figure 3.

These potential leak points can leak fluid down onto the transmission/transmission pan sealing flange and be easily mistaken for a pan and/or pan gasket leak. To properly diagnose and repair a fluid leak in one of these areas, please follow the diagnosis/repair steps below.

## **Diagnosis/Repair:**

 Using a UV Blacklight, inspect all potential leak points for signs of fluid leakage. The fluid used in these transmissions fluoresces under a blacklight. Please see (Figure 4).

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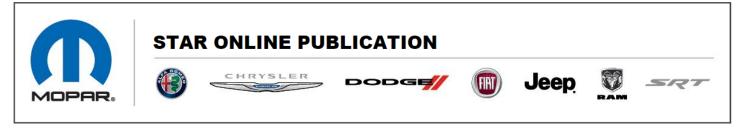




Figure 4.

- 2. Thoroughly clean the leak area using a suitable brake parts cleaner and allow the area to completely dry before continuing.
- 3. Spray the entire suspect area using a suitable leak trace powder.
- 4. Start and run the vehicle safely on a hoist and attempt to duplicate the leak.
- 5. If the leak is not evident using the leak trace powder, use the UV Blacklight to inspect for the leak. If the leak still cannot be duplicated take the vehicle on a suitable road test, bringing the transmission up to operating temperature and recheck for the leak using the UV Blacklight.
- 6. Was the leak found in one of the areas outlined in this document?
  - a. Yes>>> Replace the transmission assembly.
  - b. No>>> This document no longer applies. Diagnose the leak using normal published diagnostics and repair as necessary.

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