

Revisions to this document are noted
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SIL 4-WT-17, Rev. A
June 04, 2021
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SUBJECT: New Transmission Breather

MODELS AFFECTED: All 3000, 4000, T and B Models Transmissions

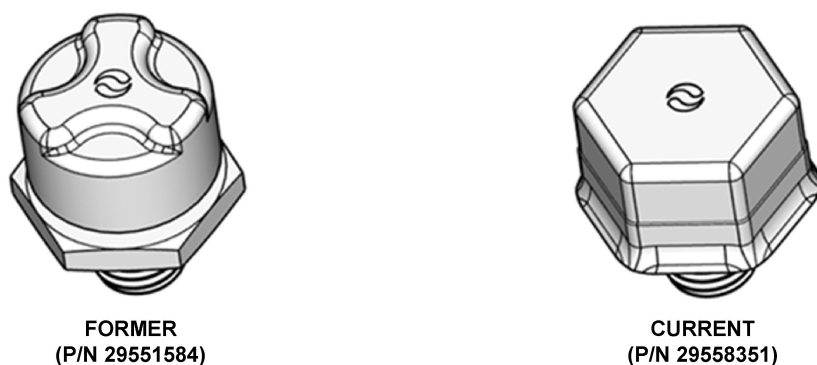
SERIAL NUMBERS AFFECTED: All models after approximate implementation date of February 2017

Introduction:

Effective February 2017, Allison Transmission, Inc. has introduced a new transmission breather.

The new breather incorporates an outer hex design that simplifies installation and removal. The hex fits a 23-mm socket or end wrench. Installation torque remains unchanged at 12-16 N·m (9-12 lb ft). No orientation of the hex is required. The new breather is backwards compatible in transmissions assembled after December 2014. Refer to [Table 1](#) for breather details.

For additional information related to the transmission breather, refer to Technical Document 185-H (Modifications Required for Fording – Allison On-Highway Transmissions) located in Tech Data on the Allison Extranet <http://allisontransmission.com/extranet>.



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Figure 1. Former and Current Breathers

Table 1. New Breather Details

Part Name	Former Part Number	Current Part number
Breather	29551584	29558351

MC / SL7969EN

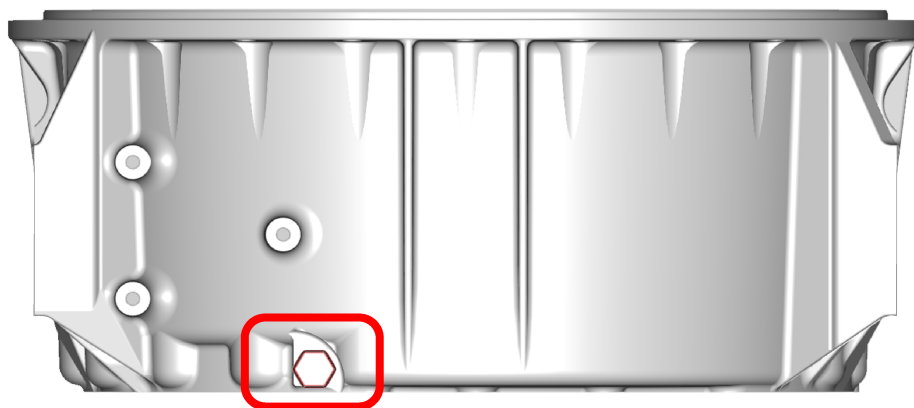
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Please Note: Allison Transmission Service Information Letters are intended for use by professional, trained technicians, not for the “do-it-yourselfer.” They are written to inform those technicians of conditions that may occur on some transmission models (or serial numbers ranges) or to provide information that could assist in the proper servicing of a specific Allison transmission. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, do not assume that the Service Information Letter applies to your transmission, or that your transmission has the condition described. Product evolution and information updates are inevitable. Please see your authorized Allison Transmission service dealer or distributor to understand if your particular transmission may benefit from the information contained within the Service Information Letter.

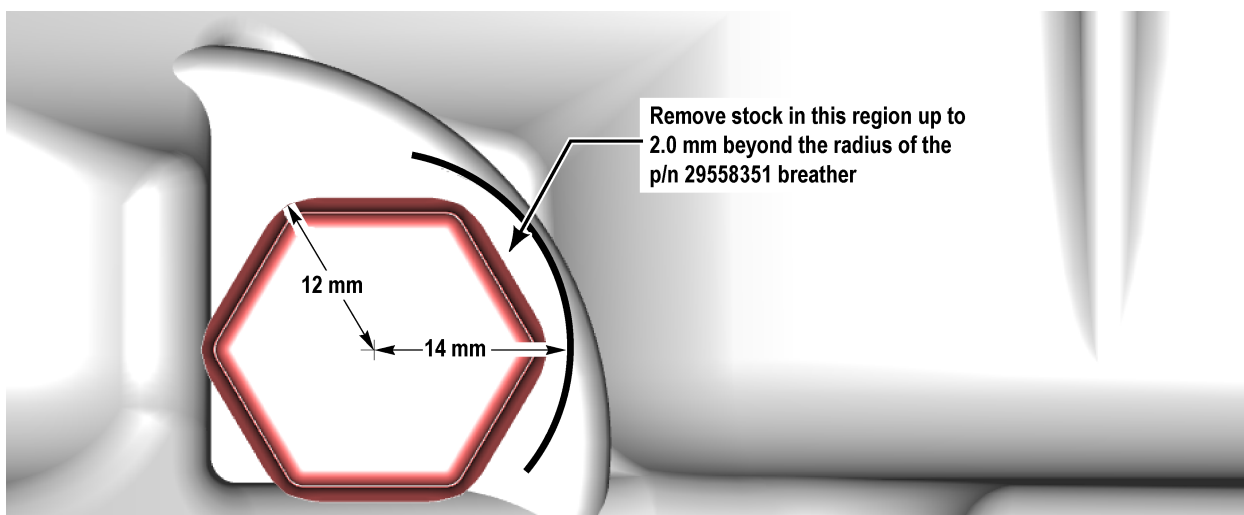
Serviceability:

In 4000 and B500 Series transmissions with Standard Converter Housings manufactured prior to December 2014, interference between the breather and aluminum housing can occur. The interfering material may be safely removed from the aluminum housing by removing stock up to 2.0 mm beyond the radius of the P/N 29558351 Breather as shown in Figure 2, Figure 3, and Figure 4. Take care to remove no more stock than necessary to prevent breaking through the cast wall. Prior to removing stock, seal the tapped breather hole to prevent entry of contamination.



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Figure 2. Location of Breather (Standard Converter Housings)



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Figure 3. Removing Stock (Standard Converter Housings)

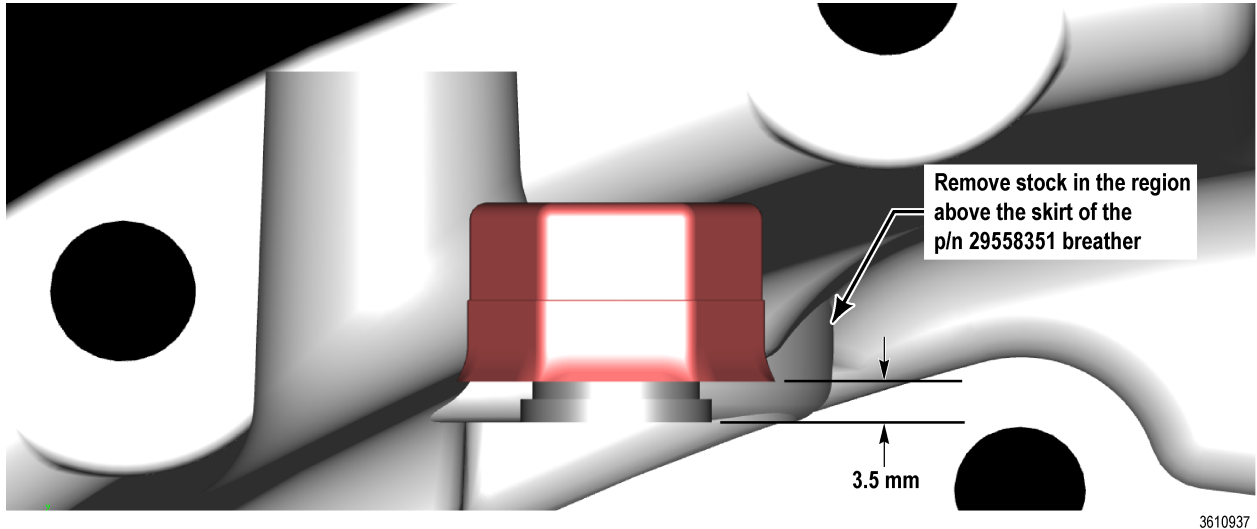


Figure 4. Breather Skirt (Standard Converter Housings)

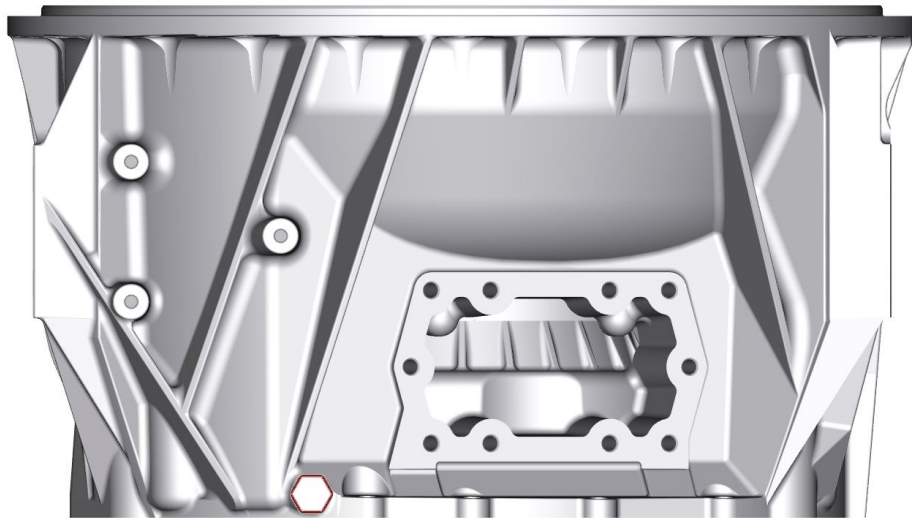
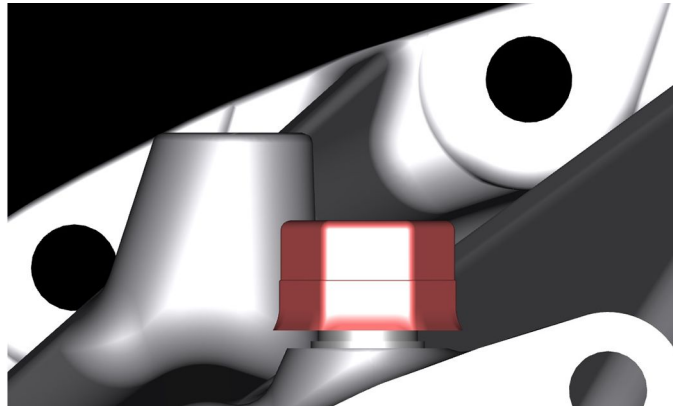


Figure 5. Location of Breather (PTO-Converter Housings) – No Interference Concerns



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Figure 6. Breather Skirt (PTO Converter Housings) – No Interference Concerns