RWRG0043 - High Range Synchronizer Failure

Symptom(s)
- Transmission grinds going into high range when air pressure is to specification

Cause
Material is missing from the high range synchronizer, burned or worn excessively allowing the range shift to rake.
If the material appears to be stripped off the synchro ring, inspect for a possible heat exchanger failure.

Repair Guideline
In the event of a material failure, the mating gear and high range synchronizer must be replaced, even if the gear looks fine. The range yoke should be reused unless the yoke pad thickness is worn to less than .400 at any point on the pad area. The new synchronizer material must be lubed prior to installation.

Check for proper case alignment dowel pin installation. See Service Bulletin TMiB0139.

Note: Fretted or stepped range clutch teeth are an indication of torsional vibration, which is not covered by warranty.

Warranty Parts
- Synchronizer Kit
- Mating Gear
- Gasket Kit
- Output Nut
- Range O-Ring or Piston Kit (if needed)
- Seal Kit (if needed)

If the material appears to be stripped off the synchro ring, inspect for a possible heat exchanger failure.

Warranty Labor
- Air System Check per OEM SRT
- Auxiliary R&R per OEM SRT
- Bench Time per OEM SRT
- Shift Bar Housing R&R per OEM SRT (required on FR models)

Warranty Coding
Part: A-7331

Complaint: Grinding
Failure: Worn

Warranty Claim Filing
Reference warranty coverage. File pre-authorized warranty claim through appropriate OEM or through Direct Pay. Reference guideline number RWRG0043 in warranty claim text.

Note: Repairs that exceed parts and labor parameters cannot be pre-authorized.

Filing through Direct Pay
Click here for Direct Pay submission guidelines and claim forms:

Submission Guidelines and Claim Forms

Parts Disposition
Parts can be scrapped.

Warranty Disclaimer
If the failure is not the result of an accident, damage, negligence, abuse or misuse, improper installation or maintenance or any other conditions described in the Limits and Exclusions section of Warranty Manual TCWY0600, available on Roadranger.com, then Roadranger will treat the condition as covered under its warranty. However, this conclusion does not necessarily mean that a defect in fact exists. In all cases, Roadranger shall make the final determination and interpretation as to the warrantability of the Product.

Warranty Coding
Part: A-7331