JOI-TEC-057

IMPROVEMENTS TO SELECT GENUINE SPICER LIGHT DUTY U-JOINTS

SERVICE/TECHNICAL

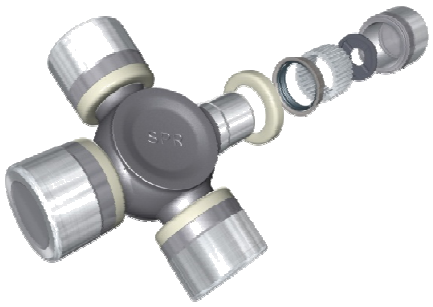
DATE: June 22, 2011

TO: All Spicer® Service Parts Universal Joint Customers

We are pleased to announce the following improvements recently implemented on several of our most popular light duty u-joint kits: part numbers 5-1310-1x, 5-1310x, 5-1330-1x, 5-1330x, 5-1350x, 5-1410x, 5-7437x, 5-7438x, 5-7439x

- **Seal Guard**
  - Redesigned and material upgraded to greatly improve the installation and long term fit on the bearing cap assembly.
  - Performance results:
    - Virtually eliminates the potential for cracking during installation or operation.
    - Improved performance in extreme temperatures.
    - Eliminates the potential for outside contaminants from reaching the bearings.

- **Trunion Seal on pre lube U-Joints**
  - The design of triple lip seal has been changed.
  - Performance results:
    - Instances of loss of small amounts of grease has been reduced by >50%.



- **Thrust Washer design changes**
  - The thrust washer is now a 2-piece assembly (a thrust washer and a spacer). The spacer is machined with 3 grooves per side.
  - Performance results:
    - The addition of a spacer allows for improved rotation of the journal cross and the needle bearings.
    - Improved distribution of grease.
    - Reduced potential for misaligned needle bearings.

- **Journal Cross Design changes**
  - The chamfer at the end of the trunion has been increased and seal guard retention ridge has been redesigned.
  - Performance results:
    - Reduced stresses on the seal guard.
    - Reduced journal cross stress levels.
    - Improved needle bearing retention.

Thank you for your continued support of Spicer U-joints.

Chris Boesel
Product Manager
Spicer® Driveline Products