

# 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**

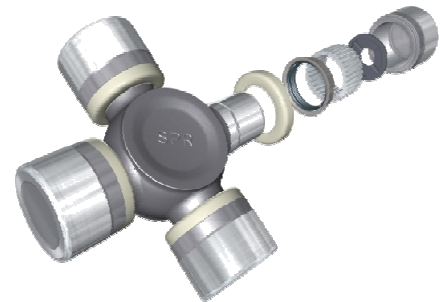
- Redesigned and material upgraded to greatly improve the installation and long term fit on the bearing cap assembly.
- Performance results:
  - Virtually eliminates the potential for cracking during installation or operation.
  - Improved performance in extreme temperatures.
  - Eliminates the potential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