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## SERVICE BULLETIN

MANDATORY

FIX ON FAILURE

INFORMATION ONLY

**Ref: SRV-018-003**

**Date: 04-24-18**

**Product: AirFlex**

**Re: Knife Drive Lubrication & Specifications**

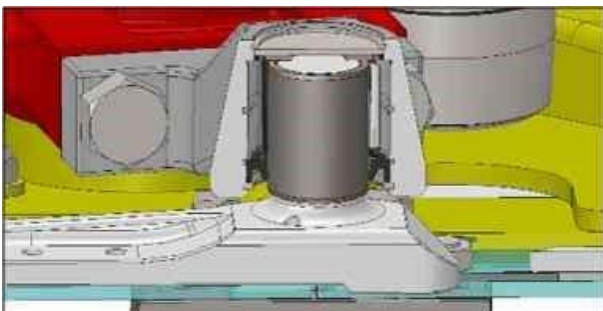
**Problem:** Repeated failure of the knife drive and knife heads.

**Solution:** All Model Year 2018 headers as well all headers that have been updated will have new knife drive bell-crank bearings installed. The bearings are now a taper design and will have better sealing to keep the dirt out. Figure 1.



**Figure 1**

The knife heads and gooseneck assemblies have also been changed. The new parts will have a longer inner bearing race and the goose-neck bearings will include a thrust washer and a new seal to keep dirt out. Figure 2



**Figure 2**

The new bearings with the better seals require a good quality grease and a different lubrication schedule. An extreme pressure grease with a higher viscosity must be used. The better sealing of the bearing eliminates the need to flush the dirt out during lubrication.

The goose-neck bearings and the bell-crank bearings must be lubricated every 10 hours with only 1 or 2 pumps of grease. Figure 3

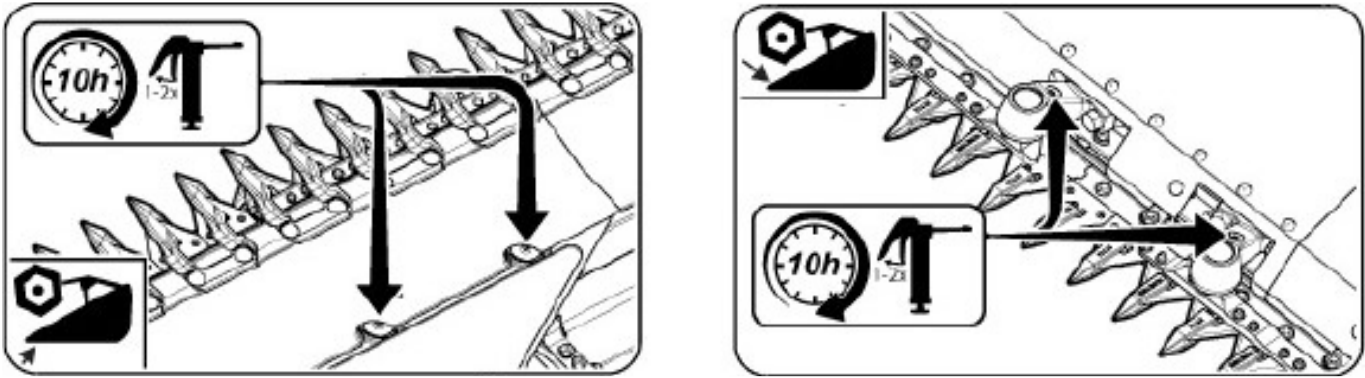


Figure 3

The correct grease must have the following specifications:

**NLGI Grade #2 Thickener Type – Lithium Complex Molybdenum Disulfide (wt.%) – 3% Viscosity of Oil (ASTM D 445) cSt @ 40°C – 400 to 500**

The following is a list of some manufactures with lubrication that meets those specifications:

- Mobil SCH XHP 462Shell Gadus S3 V460D 2
- Castrol Contractor Special 2
- Conoco Phillips 66 Megaplex XD3 or XD5 (both need to be NLGI 2 grade)
- Lucas Oil Heavy Duty Mining & Construction Grease Product #10597, 10597, 10881 NLGI GCLB
- Petro Canada Precision XL3 Moly EP2
- Cat Extreme Application Grease - Desert NLGI 2
- MyStik JT-60 Hi-Temp Grease with Moly - Readily available at any Tractor and Supply in USA.
- TOTAL CERAN XM 460 NLGI 2
- MAPO MFE Syngis Grease CS-2/502-S
- Eurol Grease CS-2/501
- Castrol Spheerol LCX 6002
- Castrol Castrol Spheerol EPLX
- Castrol Molub-Alloy 860/460-2 ES

The following grease **does not** meet the specification and should not be used:

- CNH 251H EP Grease
- CNH GR-100 SSL Grease
- John Deere Moly Grease EP Special Purpose

Using the correct grease and following the lubrication schedule will extend the life of the bearings. The grease for the knife can be used on the rest of the header.

Using the correct grease will extend the life of the bearing.

**Note: The use of a grease that does not meet the specification will void the warranty on the knife drive system.**

The grease for the knife drive assemblies can be used on the rest of the header.

**Ordering Information:**

The part numbers for the new knife drive components are:

• Old #	New #	Description
• 94992	95024	BELL CRANK S/A-DRIVE PADDLE-FLEX
• 94993	95025	BELL CRANK S/A-FLEX-LESS BOLT/NUT/WASHER
• 89566	203747	NUT-TAPER
• 28631	203089	BEARING-TAPER ROLLER CAM-3"OD
• 100256	95021	BEARING ASSY WITH BOLTS - FLEX
• 101393	203083	KNIFEHEAD ASSY-STD-CAST-SLEEVE-FLEX-RH
• 101394	203084	KNIFEHEAD ASSY-STD-CAST-SLEEVE-FLEX-LH

**Labor Allowance:** N/A