

NEW HOLLAND

SERVICE MANUAL

H7450
H7550

NEW HOLLAND AGRICULTURE

SERVICE

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1st Printing

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SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

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SECTION 31 - IMPLEMENT POWER TAKE OFF (PTO)

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Chapter 3 - Slip Clutch

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Each disc module is a separate gear case with its own oil sump, and utilizes precision forged gears for strength. Each module consists of a top cap assembly and a lower module assembly.

The top cap assembly consists of the top cap housing, a bevel gear shaft, a matched bearing set and a disc hub. The top cap assembly can be removed from the module for servicing, without disassembling the cutter bar.

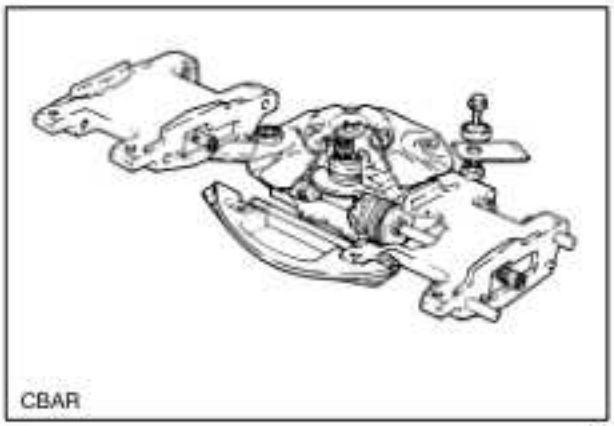
The lower module assembly consists of the lower module housing and the pinion shaft and bearing assembly. Because the pinion shaft runs at 5400 RPM, steel slingers are mounted at each end to splash oil on the shaft seals for lubrication and cooling.

The direction of rotation of the disc module is determined by the installation of the pinion shaft; if the pinion shaft is installed with the gear positioned on the right side of the housing, the disc will rotate clockwise. Installing the pinion shaft with the gear to the left will rotate the disc counter-clockwise.

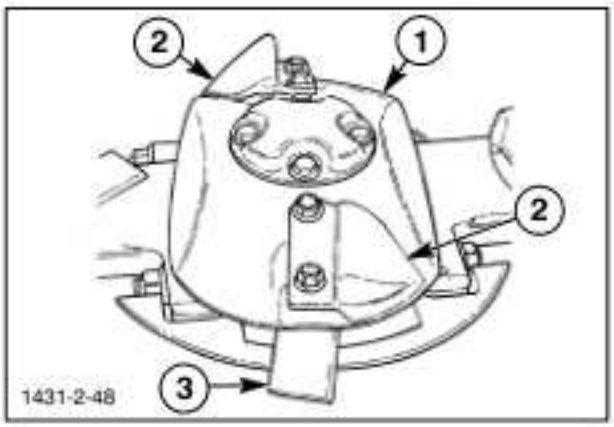
If a problem is found with a specific module, the extent of the damage can be quickly determined by removing the disc and the top cap assembly of the affected module. If damage is limited to the top cap assembly components, the lower module can be flushed out to remove contaminants, and a new top cap assembly installed to complete the repair.

The cutter bar uses small diameter, high profile discs, 1, which are 4.7 mm (3/16 in) thick and hardened for long wear. The profile of the discs, combined with bolt-on lifters (H7450 only), 2, provides aggressive feeding to the conditioner in difficult crop conditions.

The discs are equipped with 50.8 mm (2 in) wide knives, 3, which are retained with 1/2 inch bolts and hardened knife nuts. The knives are reversible for long life, and always have the beveled edge up. An arrow is stamped on both sides of the knife to show the direction of rotation. The knives can be easily changed in any position on the cutter bar.



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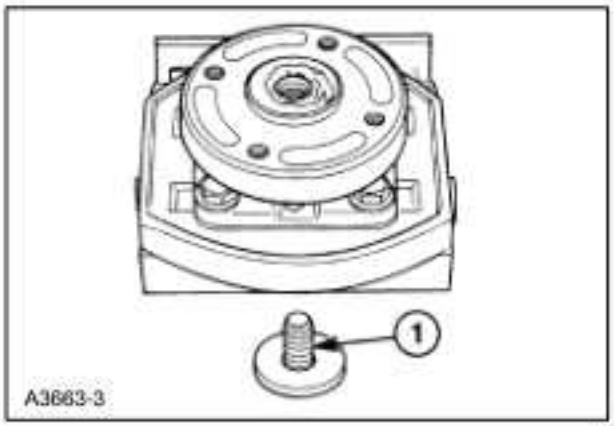
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DISC MODULE

Disassembly

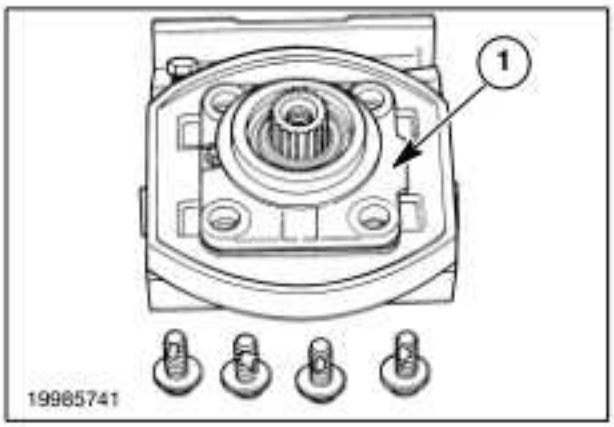
1. Remove the disc hub by removing the center retaining bolt, 1. It will be easier to remove the disc hub if the bolt is loosened prior to removing the module from the cutter bar. Clean off any material buildup on top of the module and the top cap assembly.

NOTE: *Removing the disc hub will expose the upper bearing in the top cap assembly. Cover this area with a cloth, or use special tool #FNH23ET95 to prevent contamination from entering the bearing.*



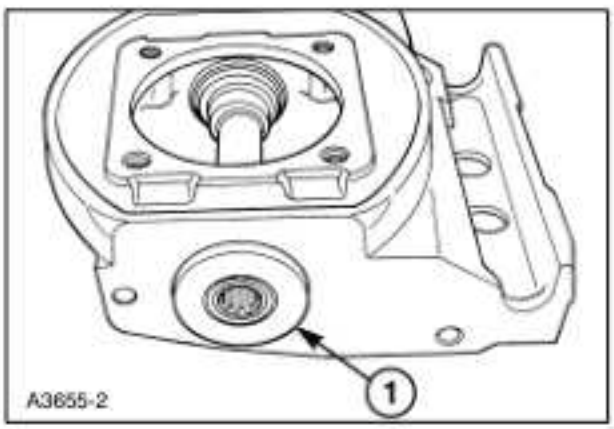
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2. Remove the four retaining bolts and pry the top cap assembly, 1, off the lower module.



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3. Pry the seals, 1, from each side of the lower module, using caution not to damage the shaft surface.



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