

Step 13 Main Gear Assembly

The Main Gear is **pre-assembled with the Auto-Rotation Bearing installed**. From parts bag 2: The Main Shaft has a step in the end of the shaft that is inserted through the auto-rotation assembly. Insert the bottom end through the auto rotation gear assembly aligning the holes and secure the Main Shaft using one 3x16mm Socket Cap Screw and one 3mm Locknut.



At some time in the future you will need to change the main gear. The main gear assembly can be easily taken out of the mechanics by removing only the main shaft. Tilt the gear assembly from the front to clear the alloy drive gear and slide the assembly out through side of the upper side frames. Also note, when removing the auto-rotation bearing, it **MUST** be re-installed into the new gear in the same direction, otherwise when power is applied, the gear will not drive the main shaft, only the tail gears will turn.

Step 14 Slipper Assembly - R30/50 Optional only

The slipper drive unit will continue to turn the tail rotor blades in the event of an auto-rotation. Before installing the main shaft the Cir-Clip must be removed from the top of the main gear assembly, use Cir-Clip pliers that have special tips to spread the clip (very useful when changing the main gear). Slide the thin washer followed by the thick washer and grease the o-ring and set in place. Install two set screws (*Tip 1*) and slide against the o-ring, apply enough pressure that when the main shaft is turned the main gear rotates. Remove and apply threadlock to one set screw at a time.

