



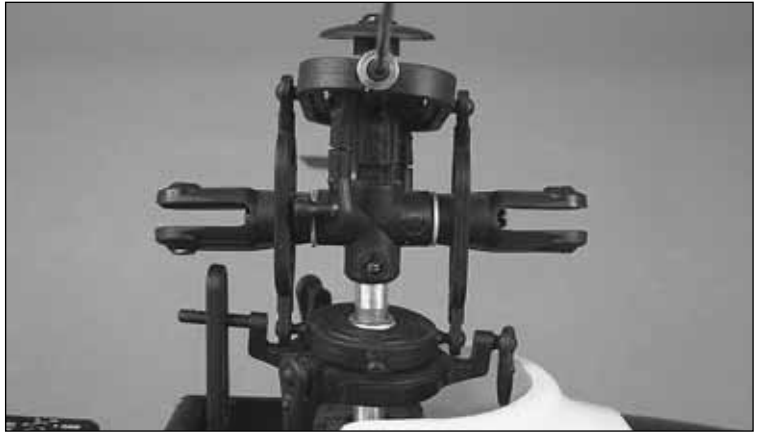
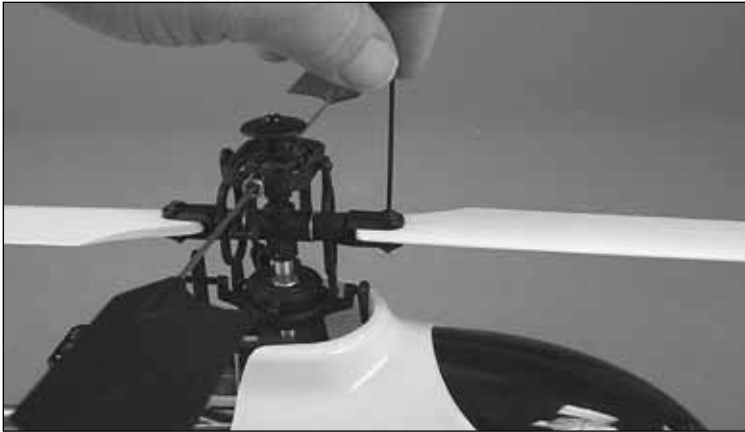
SPINDLE AND BOLT REPLACEMENT PROCEDURE

Required Tools:

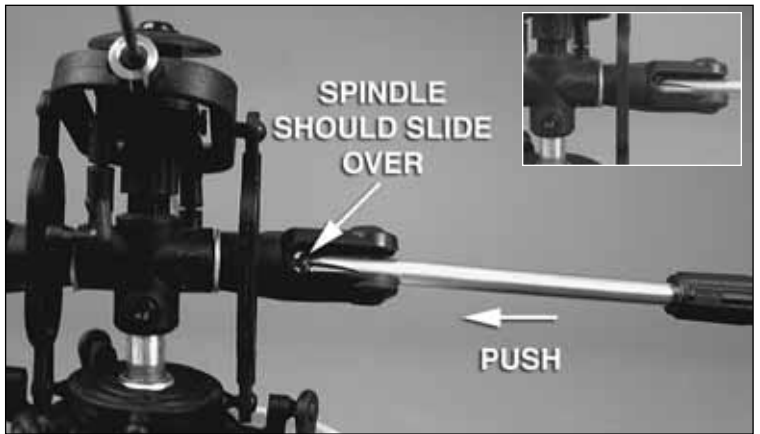
- (2) #1 Phillips Screwdrivers
- (1) 1.5mm Allen Wrench (from original kit)

Included:

- (1) Spindle
- (2) 2mm x 6mm Socket Head Cap Screws
- (2) 2mm x 5mm Flat Washers
- (1) 1.5mm Allen Wrench

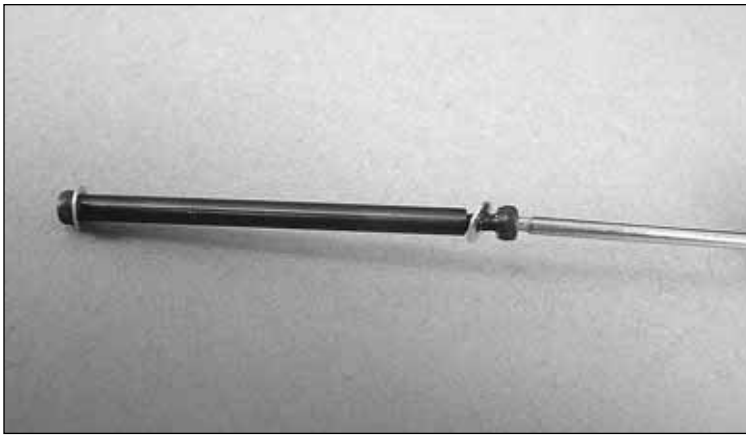


1. Before starting, make note of the 2mm nut used on the bottom of each blade grip. When removing the blade bolt, press upward on the nut to ensure it remains in the grip. Remove the blade grip bolts using the 1.5mm allen wrench, then remove the blades from the helicopter.

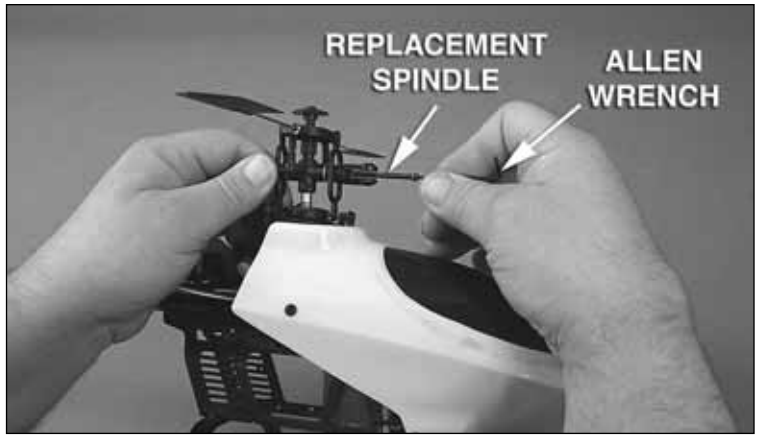


2. Please be very cautious with this next step. You must have a firm grip on the Phillips screwdrivers and blade grips (to prevent the head from rotating) while trying to loosen the Phillips spindle bolts.

3. With a firm hold on the blade grip and the two Phillips screwdrivers, partially remove one of the spindle bolts. Using the Phillips screwdriver, push inward on the partially loosened spindle bolt until it touches the blade grip bearing. If the spindle does not slide to the other side, use a small hammer and lightly tap the end of the screwdriver. Finish unthreading the partially loosened spindle screw and remove it from the spindle.



4. The replacement spindle is supplied with one bolt and washer pre-installed with thread locking compound, and the other bolt and washer are partially installed using thread locking compound. Remove the partially threaded socket head cap screw from the spindle using a 1.5mm allen wrench.

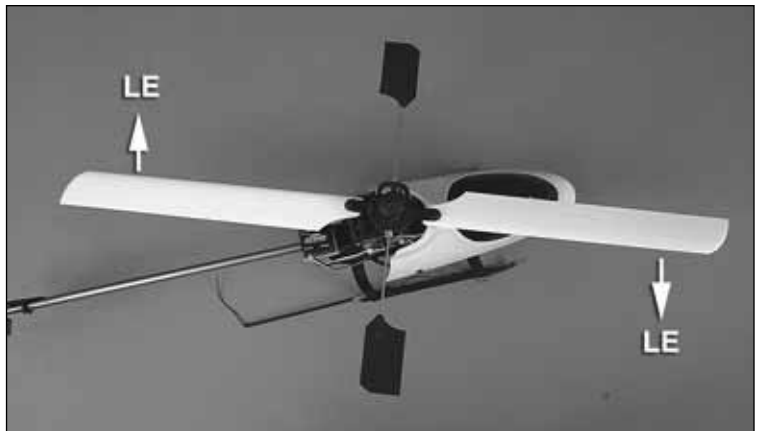


5. Insert the 1.5mm allen wrench into the remaining bolt in the spindle. Insert the replacement spindle into the blade grip where you removed the screw. When performing the next step, hold onto the blade grip on the opposite side of the rotor head. Use the 1.5mm allen wrench to press the replacement spindle through the head which will push the old spindle out the other side. Discard old spindle. Make sure no parts fall out during this step.

Head Assembly Exploded View



6. Install the 2x6mm socket head cap screw and 2mm washer you removed from the replacement spindle earlier using a 1.5mm allen wrench. Tighten the bolts with both 1.5mm allen wrenches.



7. Reinstall the main rotor blades using the 1.5mm allen wrench as shown above. Be sure that the blades are mounted with the leading edges facing the correct direction as shown above. When the helicopter is held up on its side the main blades should support their own weight. When held in this position and shaken the blades should fall equally. **Happy Flying!**