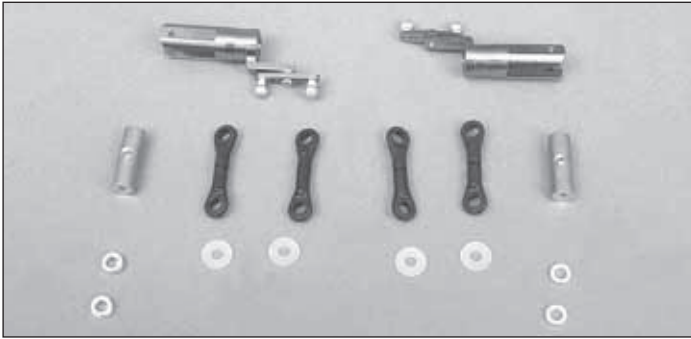


Heli-Max™ AXE™ CP CNC Bell Hiller Upgrade

PACKAGE CONTENTS



- Two CNC Bell Hiller blade grips with mixers pre-installed
- Two brass flybar weights
- Four control rods
- Two short spacers
- Two long spacers
- Four plastic blade spacers

INTRODUCTION

The Heli-Max™ AXE™ CP Bell Hiller Upgrade increases the control rate and stability of your AXE CP drastically. The included adjustable flybar weights must be installed for initial test flights. The flybar weights reduce the sensitivity of the control system. Please keep in mind that even with the flybar weights installed, the model will be 4 to 5 times more sensitive once you install the Bell Hiller blade grips.

Once you have become accustomed to the new Bell Hiller blade grips, you will notice the model is much more responsive and accurate to your control inputs. You will also notice the model can be flown in stronger winds and fast forward flight shows no instabilities.

If additional assistance is required for any reason contact **Product Support** by e-mail at helihotline@hobbico.com, by telephone at (217) 398-8970, or visit www.helimax-rc.com.

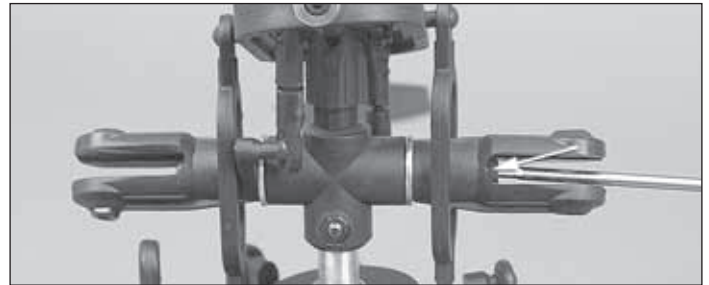
INSTALLING THE UPGRADE



1. Remove the main blade bolts using a 1.5mm allen wrench. Remove both main rotor blades from the helicopter. Remove the 2mm nut from the bottom of the blade grips. These will be needed later when reinstalling main rotor blades.



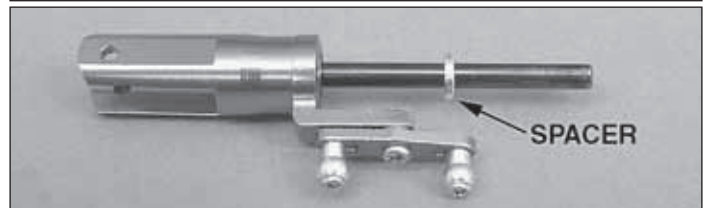
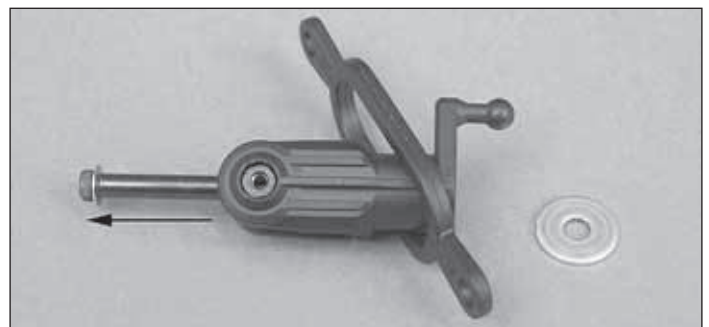
2. Remove the oval linkages from the swashplate and flybar control arm.



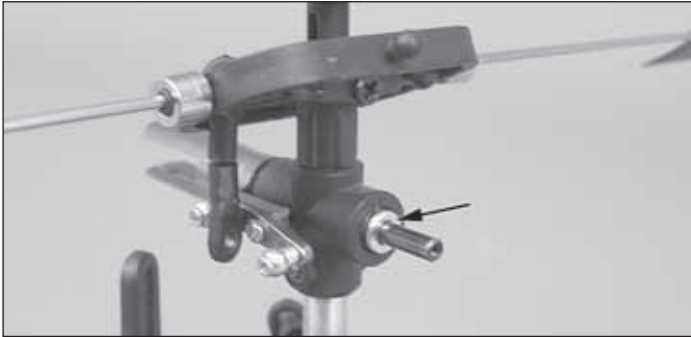
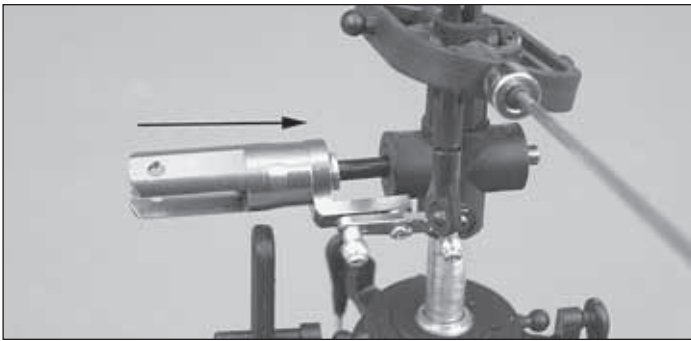
3. Remove the spindle bolt using a 1.5mm allen wrench.



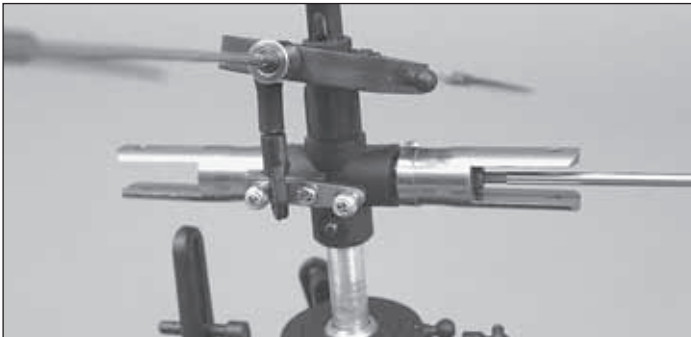
4. Remove the blade grip from the side you removed the spindle screw from. Pull the other blade grip and spindle out of the head block.



5. Slide the spindle out of the blade grip and insert the spindle into the new Bell Hiller blade grip. Slide a thin dampening spacer onto the spindle.

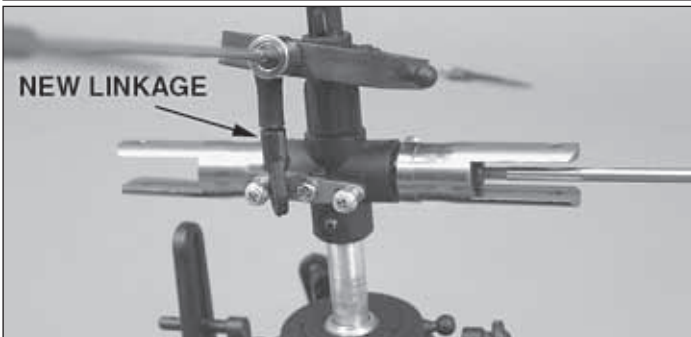
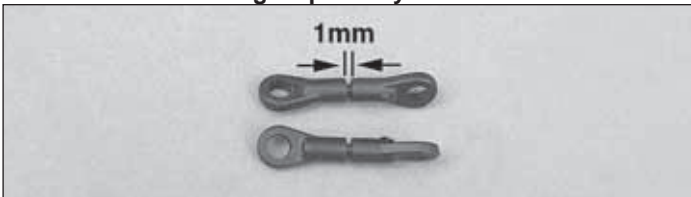


❑ 6. Using a 1.5mm allen key, push the new blade grip and spindle through the dampeners. Install the other thin dampening spacer onto the spindle as shown.



❑ 7. Place the remaining blade grip onto the spindle. Apply threadlocking compound to the 2mm spindle bolt and re-install into the spindle.

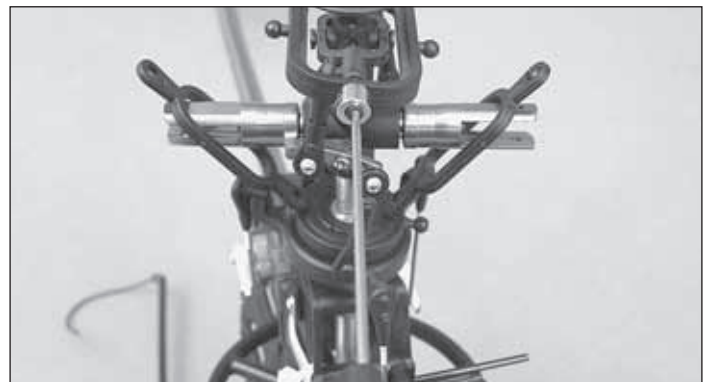
Attention: The following step is very critical!



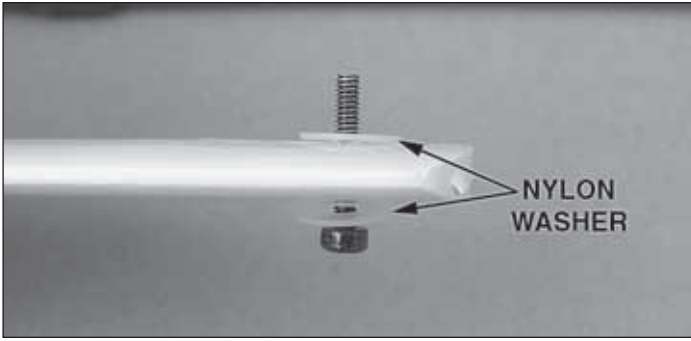
❑ 8. Remove all of the control links from the rotor head. Verify the new linkages are the same length and have a 1mm gap between the ball links. Please note there is a dimple on one side of the ball link. The dimple must be on the outside as you snap the linkage onto the ball. Install the new control linkage between the flybar seesaw and the blade grip mixer arm as shown above. Repeat this for the opposite blade grip.



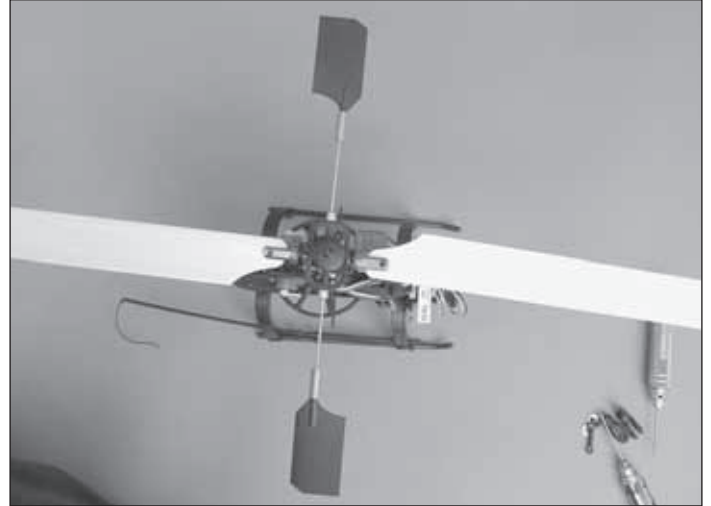
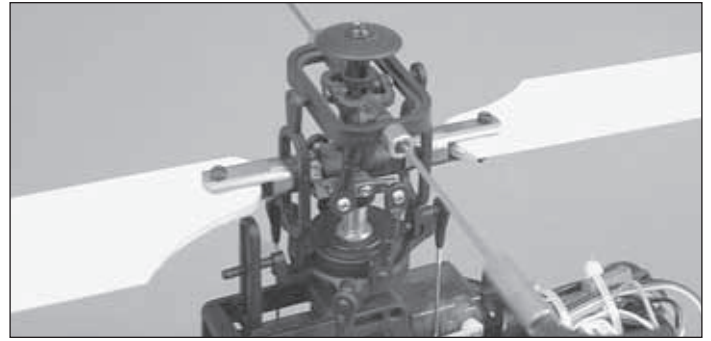
❑ 9. Install the control linkage between the blade grip mixer arm inner ball and the swashplate.



❑ 10. Slide the oval links over the blade grips and re-install them onto the flybar control arm and the swashplate.



❑ 11. Slide one thin nylon washer onto the 2mm main blade screw. Slide the screw with washer through the blade grip and place one thin nylon washer onto the opposite side. Carefully slide the blade and washers into the blade grip. Apply threadlocking compound to the blade bolt and install it using the 2mm nut removed from the blade grip earlier. Repeat for the opposite blade grip.



❑ 12. Remove a paddle from the flybar. Install one brass paddle weight onto the flybar and re-install the flybar paddle. Repeat on the opposite side. Slide the paddle weights against the paddles and tighten the set screws against the flybar. Measure and verify both paddles are the same distance out from the flybar control arm. Both paddles must be parallel with the swashplate. If you feel the paddles rotate too easily, add a drop of CA to the threads before threading the paddles on.

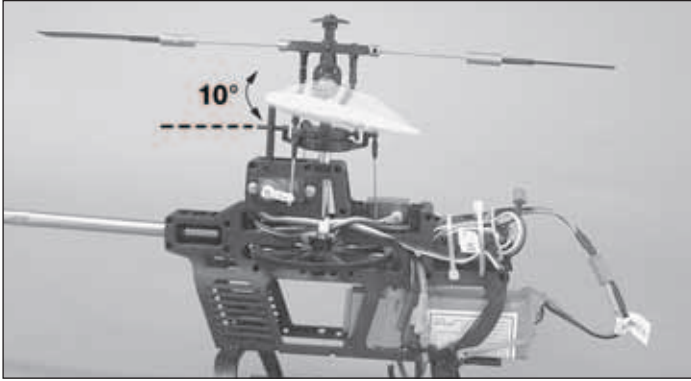
SETUP

WARNING! Unplug the main motor and tail motor before proceeding to the following steps.

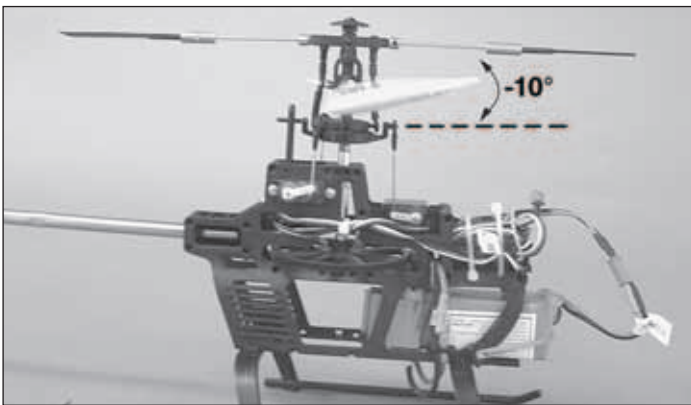


❑ 1. Once you are certain the main motor and tail motor are disconnected, turn the transmitter on, center all trims, place the throttle at the 50% position and flip the Idle Up switch to the "ON" position. Plug the flight battery into the E-Board and allow the gyro 10 seconds to initialize. Hold the flybar level and the blades should be

parallel to the flybar, which is 0 degrees collective pitch. If the blades are not 0 degrees, then adjust the top linkage until they are. The linkages on each blade grip must be the same length.



2. Raise the throttle to the uppermost position and you should have 10° of top end pitch.



3. Lower the collective stick to the bottom position. You should have -10° of pitch.

4. Unplug the flight battery, turn the Idle Up switch off, and remove the flight battery. Plug the tail motor and main motor back into the respective plugs.



The Axe CP is now ready to fly. Perform the tracking test as mentioned in the AXE CP instruction manual and if an adjustment is needed use the linkage shown above.

Please Note: The Axe CP with the new Bell Hiller Head will be much more responsive to your inputs in comparison to the original Axe CP Head. Please take your time and become accustomed to the new feel before you progress into forward flight or aerobatics.

Happy Flying!