
Minstrel
GREAT JUMBO
FLYER SET
instructions
KROMSKI

Assuming that your Minstrel has already been in use with the Standard Flyer set (pictured left) or even a Jumbo Flyer set, the first step of installing the Great Jumbo Flyer will be removing the current flyer set and On-Board Lazy Kate.

Refer to the original wheel assembly instructions if you are unfamiliar with part names. Assembly instructions can be found at www.kromskina.com, under the Spinning tab, by wheel model.

To begin,completely loosen the drive band tension by turning the Tension Screw until it separates from the Adjusting Block. Remove and safely store the Adjusting Block, Standard Flyer, Standard Bobbin and Whorl.
Set the Tension Screw aside as it will be used later.

Next, unscrew the brass knurled knob from the underside of the Front Maiden and the Wing-nut from the underside of the On-Board Lazy Kate. Remove these components and safely store these along with the flyer components that were removed in the first step, setting aside the Carriage Bolt, Washer and Wing-nut from the Lazy Kate to use in a later step.

Once the components have been removed, the Mother-of-All unit will look like the wheel pictured left. Bring the drive band to the front of the wheel, over the Mother-of-All and store it away by wrapping around the bottom of the support posts and tying off, as pictured below.

This is a simple way to store extra drive bands when not in use so that you won't have to completely remove and then measure and tie new drive bands everytime you switch flyer setups.

The Great Jumbo Flyer Set includes:

- A Great Jumbo Flyer
- 4 Flyer Hooks
- 2 Great Jumbo Bobbins
- 1 Front Maiden Post with Base
- 1 Adjusting Block
- 2 Great Jumbo Drive Bands
- 1 Great Jumbo Whorl
- Great Jumbo On-Board Lazy Kate

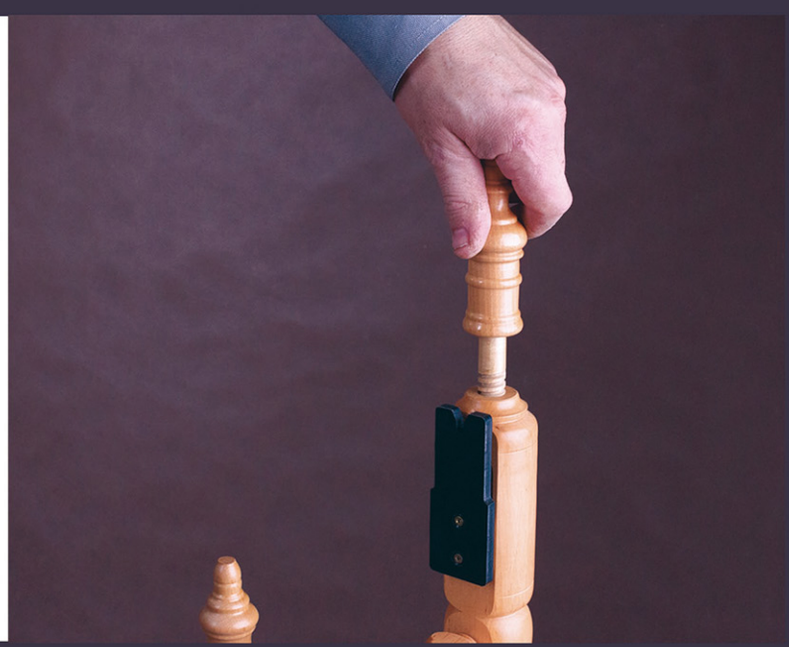
To begin installing the Great Jumbo Flyer set, retrieve the Adjusting Block and the wheel's original Tension Screw.

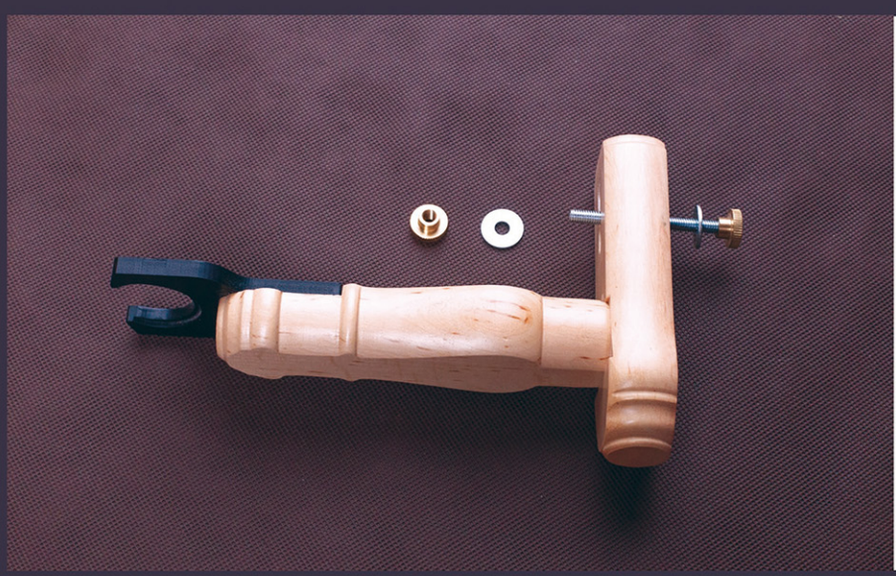
It is also important at this point to liberally apply wax to the Tension Screw as directed in the original Wheel Assembly Instructions. This should be a plain, colorless, scentless paraffin wax, such as an emergency candle.

This is an important step of regular maintenance, ensuring proper lubrication of the wooden parts.

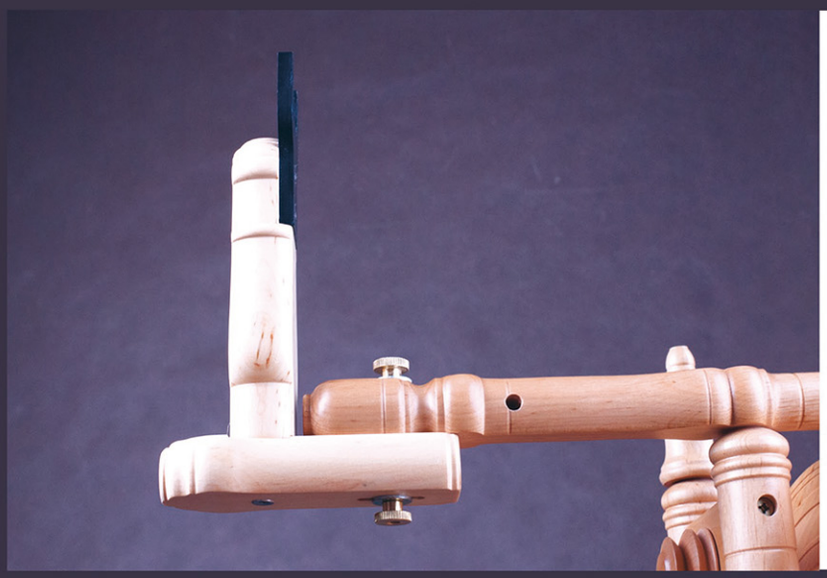
Place the Adjusting Block in the open space of the wheels Main Support Post as pictured right. The Adjusting Block should rest comfortably on the bottom of the open space.

Set the Tension Screw into the Adjusting Block through the opening at the top of the Main Support Post. Turn the Tension Screw until proper connection of the Adjusting Block and Tension Screw is achieved and the Tension Screw Handle is touching the top of the Main Support Post.





Next, retrieve the Front Maiden Post with Base.



Install the Front Maiden Post with Base by placing the base on the underside of the Mother-of-All and screwing in the top and bottom brass knobs at the same time, as pictured below. Do NOT fully tighten at this point.

It will favor your steps later in the installation process to note the sliding slot on the base of the maiden and position it in this step with the slot being as far away from the drive wheel as possible.

Retrieve Great Jumbo Flyer and 4 Flyer Hooks.

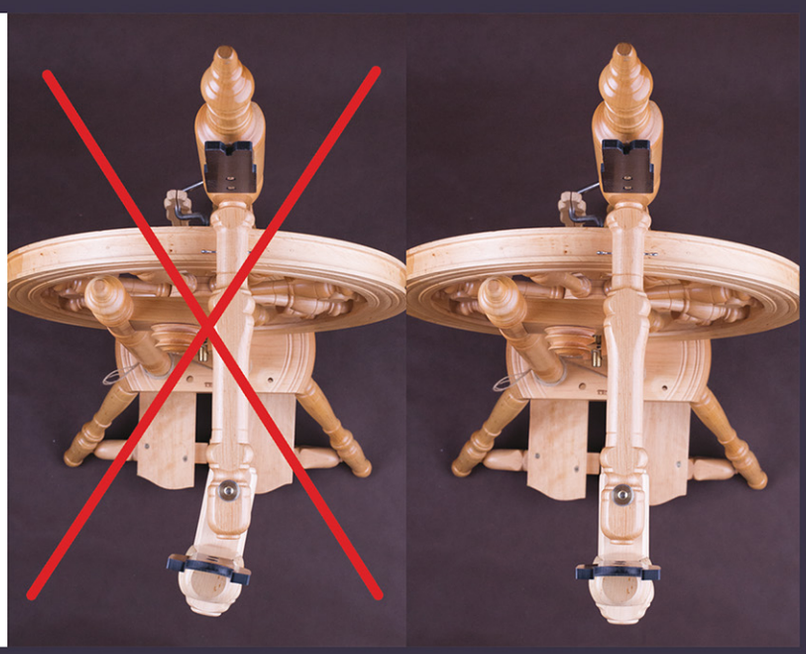
Install two hooks on each arm of the Great Jumbo Flyer. Place the hooks opposite of each other (both up and down and left and right), as pictured here to maintain optimal balance of the Flyer while spinning.
To open these hooks, pinch the triangular and larger circular sections toward each other, opening the smaller circular section. Once the hook is in correct placement, release the pinch.

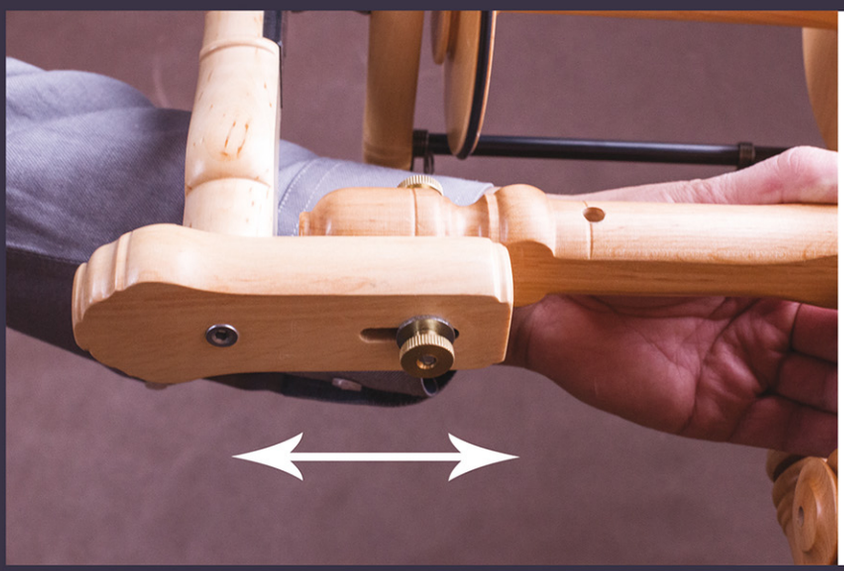
It's time to place a Great Jumbo Bobbin and the Great Jumbo Whorl onto the spindle of the Flyer.
Remember the rule of placing the bobbin pulley that's size is nearest to the size of the whorl pulley you will be using beside of the whorl. Think "small whorl, small bobbin pulley; large whorl, large bobbin pulley."
Remembering this rule with ***all*** Kromski flyers setups will greatly reduce take-up challenges.
In preparation for a later step of these instructions, please place the large bobbin pulley closest to the whorl at this time.

With the brass knobs still loose, angle the Front Maiden to one side and place the Flyer orifice into the Maiden bearing, ensuring that the graduated lip of the orifice is flush with the bearing.

While twisting the Front Maiden with Base into a more perfect alignment with the Mother-of-All, insert the tip of the Flyer spindle into the groove of the Adjusting Block bearing.

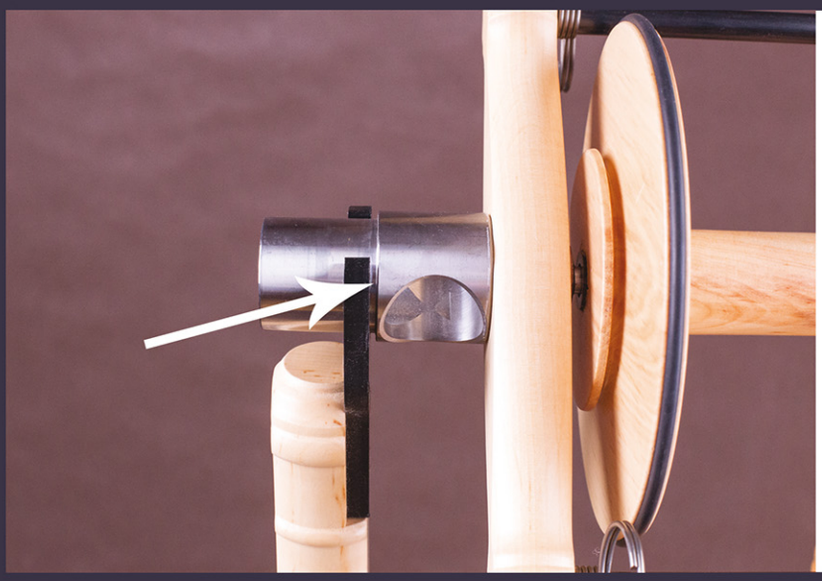
From above your wheel, ensure proper alignment of the Front Maiden with Base and the Mother-of-All. If there is any misalignment at all in these components, your Flyer will NOT spin. Please use extra precaution to achieve the alignment shown here.





Once proper alignment is achieved, determine if you need to reduce the spacial play that may be between the Front Maiden bearing and the Adjusting Block bearing.

If your Flyer can be slid back and forth between the Front Maiden and Adjusting Block, you will need to decrease the spacial play. Do this by moving the sliding slot in the base of the Front Maiden toward the drive wheel until there is very little to no spacial play without being too tight for the flyer to spin freely.



The last thing to check before tightening the brass knobs, is that the Flyer spins freely and smoothly when turned by hand. If there is any resistance or tightness felt when attempting to spin the Flyer by hand, adjust the slide slot on the Front Maiden base away from the drive wheel just a fraction to create a small gap between the graduated lip on the orifice and the Front Maiden bearing.

Once, it seems that your Flyer spins freely and smoothly when turned by hand, carefully tighten the brass knobs of the Front Maiden base to secure the flyer setup.

After securing the brass knobs, do a final hand spin check on the Flyer.

If the Flyer spins freely and smoothly, proceed to the next step. If not, go back over the alignment and decreasing spacial play steps of the setup until a free and smooth hand-spin check on the Flyer is accomplished.

The next steps will walk you through tying a new drive band on. There are many helpful videos online if you are not familiar with how to tie a drive band. Even if you can tie a perfect drive band, different wheels have different processes to get the best fit for drive bands of each, specific wheel.

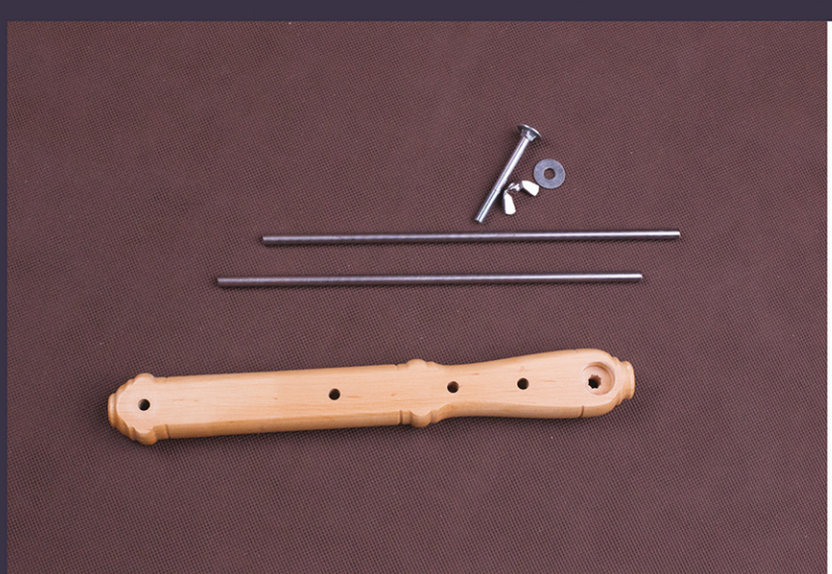
With The Minstrel Great Jumbo Flyer, you want to make sure that the Adjusting Block is in the LOWEST POSSIBLE position by turning the Tension Screw until the Block has been navigated nearly to the bottom of the opening but is not in jeopardy of separating from the Screw.

Assuming you followed the earlier directions and placed the largest bobbin pulley nearest the whorl, you will take your open ended drive band, find the center and place that center point at the top of the largest whorl pulley, draping the drive band over each side of the whorl, down around the bottom of the drive wheel, crossing over each other, exchanging ends in each hand and pulling those ends up and over the large bobbin pulley. Then tie a snug square knot, using care to not tighten the drive band so much that spinning will be impeded. Trim off the excess ends after final adjustments.

A correctly installed, best fitting drive band will look like this from the backside of the wheel. The tension on the drive band will be taut but not overly tightened. To adjust tension of your drive band turn the Tension Screw to move the Adjusting Block up and down until proper tension is achieved.

The Great Jumbo Whorl has two pulleys, the smallest pulley renders a 8:1 ratio and the largest pulley renders a 4:1 ratio. As mentioned in an earlier step, should you decide to use the smallest pulley on the whorl, you need to place the smallest bobbin pulley closest to the whorl, as seen in the picture here. This exchange of pulleys should only be done at the same time as a bobbin exchange* and will leave slack in the drive band. To remove slack from the drive band use the Tension Screw to raise the Adjusting Block. **When raising or lowering the Adjusting Block always stand to where you can view the movement of the Block.** NEVER keep turning the Tension Screw once the Block has raised all the way to the top of the open space or lowered all the way to the bottom, as damage can occur. Upon the first notice of resistance or noise when adjusting tension, wax as instructed on page 4.

*A bobbin exchange is the process of putting an empty bobbin in the place of a bobbin that has already had fiber spun onto it.



Lastly, you will install the Great Jumbo On-Board Lazy Kate. Retrieve the Carriage Bolt, Washer and Wing-nut from the wheel's original On-Board Kate. Place the Carriage Bolt into the circular cut-out in the Kate arm, down through the hole in the table of the wheel and secure from under the wheel with the Washer and Wingnut.

Place the Kate rods in the holes of the Kate Arm to store bobbins, as shown on the next page.

Once all these steps have been completed, you are ready to spin!

We hope you greatly enjoy your new Great Jumbo Flyer Set!

ART YARN MADE ON MINSTREL GREAT JUMBO FLYER

Questions? Comments? Concerns?
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