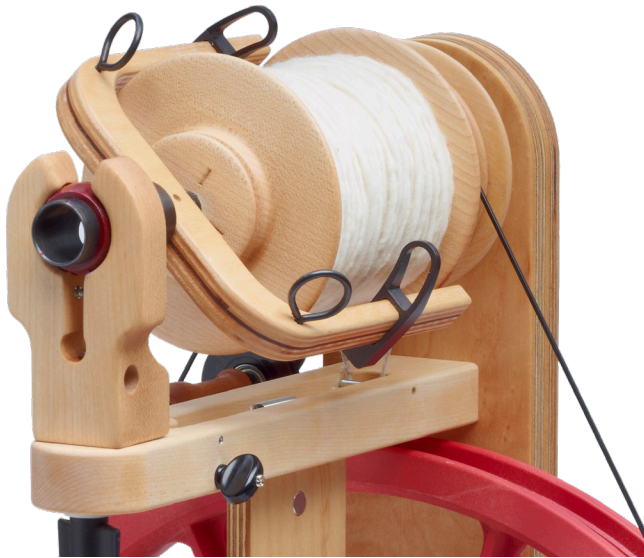


**LB6602**

# LADYBUG™ BULKY PLYER FLYER

## INSTALLATION

FOR WHEELS BUILT BEFORE AND AFTER 2/12/2012



Find out more at [schachtspindle.com](http://schachtspindle.com)  
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## PARTS

Ladybug bulky front maiden & bearing  
Bulky flyer  
Bulky bobbin

## TOOLS REQUIRED

flat (slotted) screwdriver (optional)  
#2 Phillips screwdriver (optional)

## REMOVING THE STANDARD FRONT MAIDEN

1. Slip the drive band and Scotch tension string off the flyer and bobbin. Remove the standard flyer, standard bobbin, and whorl from the spinning wheel.
2. Unscrew the front maiden knob (Figure 2). Remove it from the wheel, leaving the T-nut slide on the knob shaft. You will use these parts in Step 6.
3. Lift the front maiden off the wheel and remove the barrel nut from the hole in the side (Figure 3)—you will use this barrel nut in Step 5. Remove the front maiden. Store it safely with the standard flyer.

## INSTALLING THE BULKY FRONT MAIDEN

4. With the logo facing the front of the wheel, place the bulky front maiden onto the mother-of-all (MOA) with the maiden stop sitting in the MOA slot (Figure 4).
5. Slide the barrel nut into the bulky front maiden (Figure 4). Use your fingers or a flat screwdriver to position the barrel nut: the slot on its end should be vertical and its hole should line up with the hole in the maiden. Check alignment by looking through the keyhole slot.
6. From beneath the MOA, insert the front maiden knob and T-nut slide into the bulky front maiden (Figure 4). Screw the knob loosely into the barrel nut.

## INSTALLING THE BULKY FLYER

7. Slide the bulky maiden forward.
8. Put the bulky bobbin on the bulky flyer with the bobbin's large end at the back of the wheel. Put your desired whorl on the flyer.

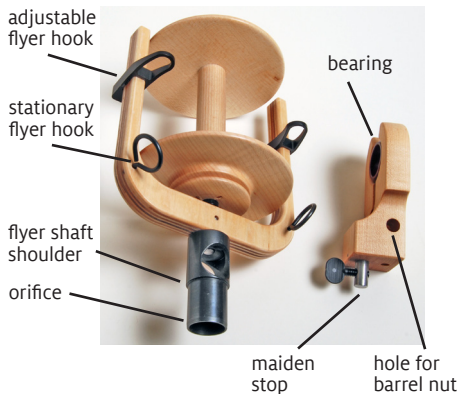


FIGURE 1: BULKY FLYER PLYER PARTS

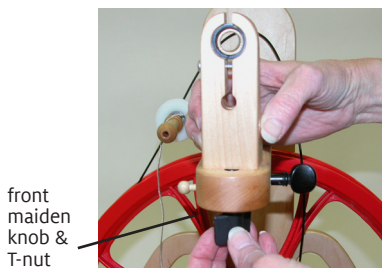


FIGURE 2: REMOVE STANDARD FRONT MAIDEN

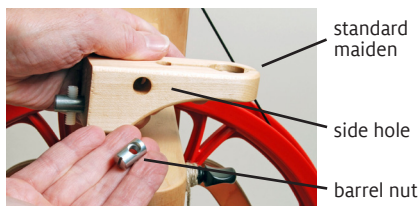


FIGURE 3: REMOVE BARREL NUT



FIGURE 4: INSTALL BULKY FRONT MAIDEN

**9.** Place the Scotch tension string on the bobbin and the drive band into the whorl groove—see page 4 for installation.

**10.** Insert the whorl end of the bulky flyer into the rear bearing. Insert the orifice end of the flyer into the bulky front maiden bearing. Tighten the front maiden screw to secure the bulky front maiden.

**11.** There should be a small gap (about 1/16") between the front bearing and the shoulder of the flyer shaft (Figure 5). If there is no gap, adjust the maiden stop and/or bearing.

### ADJUSTING THE MAIDEN STOP & BEARING

**12.** If the bulky flyer does not appear to be spinning freely, remove it and reinstall without the drive band and Scotch tension string. Check for the 1/16" gap between the bearing and shoulder (Figure 5).

**13.** Spin the flyer by hand. If it does not spin freely, loosen the front maiden knob until you can turn the thumb screw of the maiden stop. Remove the flyer. Turn the thumbscrew in or out half a turn as needed. Replace the front maiden, re-install the flyer, and secure the front maiden knob.

**14.** If the bulky flyer still does not turn freely, loosen the bearing adjustment screw on the side of the bulky front maiden (Figure 6). Use a #2 Phillips screwdriver to loosen the screw a quarter turn. Test the flyer and repeat this process again if needed.

### MOVING THE FLYER HOOKS

The stationary flyer hooks should be turned so that they do not extend beyond the flyer arms.

The adjustable flyer hooks can be set at any position you choose. Hold a hook above and below the flyer and slide it into place (Figure 7).

To keep your flyer in balance, always leave both hooks on the flyer.

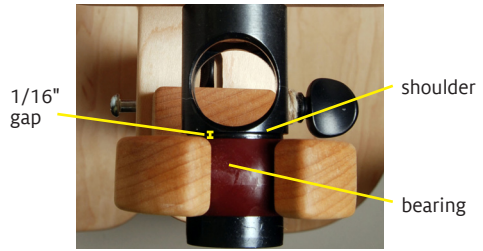


FIGURE 5: INSTALL BULKY PLYER FLYER



FIGURE 6: ADJUST FRONT BEARING

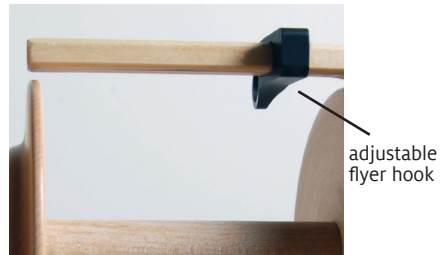


FIGURE 7: MOVE FLYER HOOKS

### GETTING READY TO SPIN

We recommend using the Bulky Plyer Flyer in Scotch tension mode only. Set up the Scotch tension spring and string for your wheel based on its serial number (see next page).

## FOR WHEELS BUILT BEFORE 2/12/12

### SETTING UP SCOTCH TENSION

Install the Scotch tension spring and string as shown in Figure 8.

- Bring the Scotch tension spring and string up through the hole in the MOA and angle it to the left.
- Place the string over the large end of the bobbin from left to right.
- Wrap the string under the screw on the right side of the MOA.
- Wrap the string end around the Scotch tension adjustment peg. ■

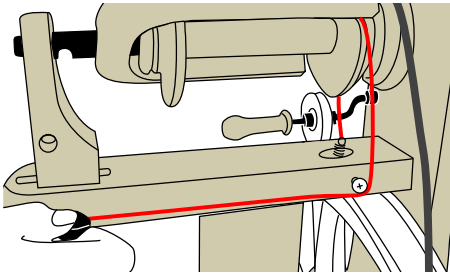


FIGURE 8: SET UP SCOTCH TENSION

## FOR WHEELS BUILT ON 2/12/12 OR LATER

### SETTING UP SCOTCH TENSION

If you have not already installed the Scotch tension spring and string on your wheel, do so now.

- Slide the loop end of the Scotch tension spring and string under the rear bar, laying the loop to one side (Figure 9A). Use your orifice hook to pull the loop up if needed.
- Adjust the Scotch tension peg so that the hole in its shaft is visible (Figure 9B). Pull the straight end of the cord over the front bar and into the hole. Tie a double knot in the end of the cord to secure it.

To use Scotch tension, place the loop end over the large end of the bobbin. Turn the Scotch tension peg to take up the slack in the cord. ■

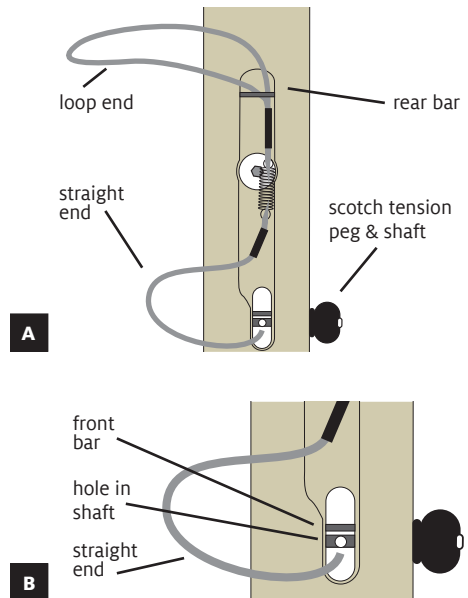


FIGURE 9: INSTALL SCOTCH TENSION SPRING AND STRING