

LADYBUG SPINNING WHEEL

ASSEMBLY INSTRUCTIONS FOR DISASSEMBLED WHEELS



Find out more at schachtspindle.com
Schacht Spindle Company 6101 Ben Place Boulder, CO 80301
p. 303.442.3212 800.228.2553 f. 303.447.9273

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LADYBUG ASSEMBLY INSTRUCTIONS

HARDWARE

Bag #1:

1 – 10 • 24 x 2" truss head screw

1 – 10 • 24 barrel nut

Drive band tensioner:

1 – lock nut

1 – tension spring washer

1 – black flat washer

1 – 3/32" hex wrench

1 – drive band tensioner

Bag #2:

1 – wood wedge

Bag #3:

1 – crank with attached footmen

1 – 9/64" hex bolt

1 – 9/64" hex wrench

2 – black plastic washers

Bag #4:

1 – poly drive band

2 – 10 • 24 barrel nut

2 – 10 • 24 x 2" trusshead screw

Bag #5:

1 – front maiden

1 – front maiden knob with plastic slide and barrel nut

1 – whorl knob

2 – 10 • 24 x 1/2" trusshead screw (lower front leg)

Bag #6:

2 – hex head bolts for footmen

2 – 1/4" lock washers

4 – 1/4" washers

LADYBUG PARTS

1 – red drive wheel

1 – rear leg assembly

1 – mother-of-all

1 – treadle bar with attached treadles and center brace

1 – lower front leg

1 – front leg

1 – front maiden

1 – flyer

1 – medium speed whorl

1 – fast speed whorl

3 – bobbins

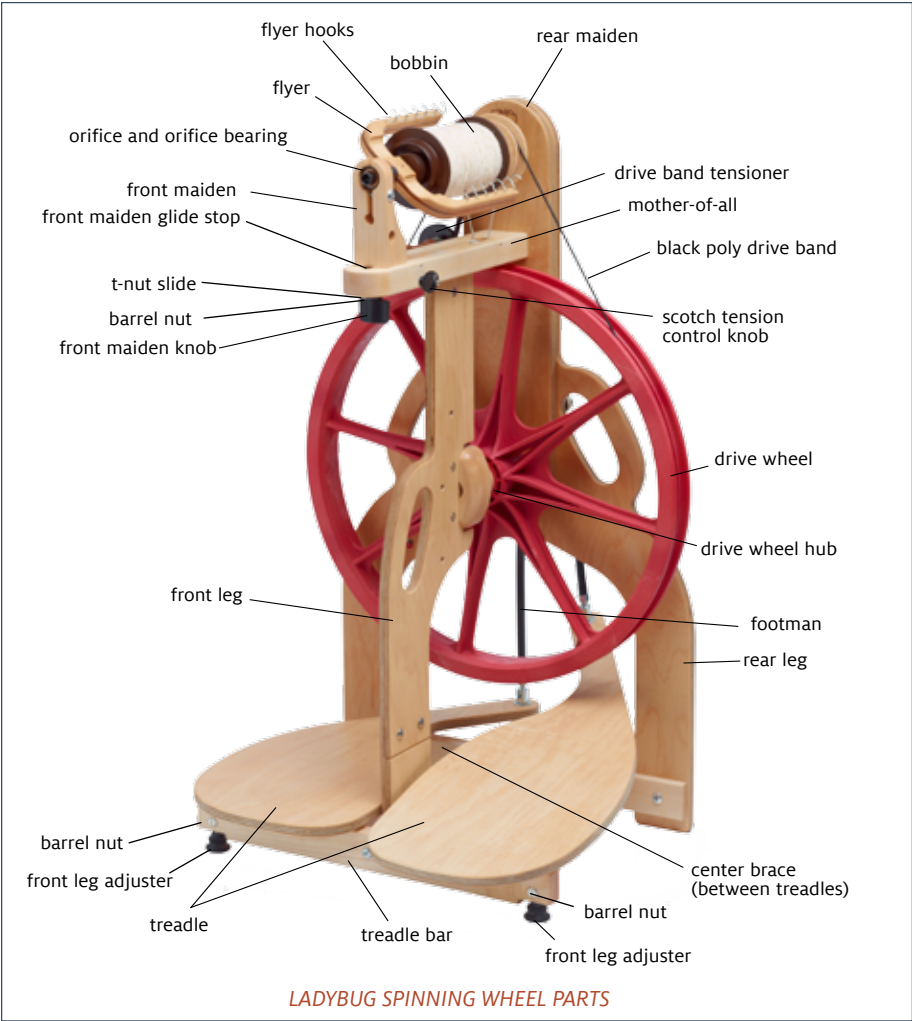
TOOLS

1/2" wrench

7/16" wrench

Phillips screwdriver





ASSEMBLY

Step 1. Open the box and check all the parts against the parts list.

Step 2. Stand the rear legs up and attach the center brace with a 10•24 x 2" trusshead screw and a 10•24 barrel nut. (hardware bag #1)

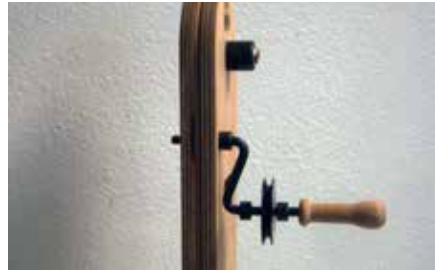


STEP 2

Step 3. Slide the drive band tensioner handle into the hole near the top of the rear legs. Slide the flat washer and the tension spring washer on the threaded end and secure the handle with the 1/4" lock nut.



STEP 3A



STEP 3B



STEP 3C

Step 4. Orient the mother-of-all with the small slot on the bottom and slide the mother-of-all through the rounded rectangular hold in the rear legs. Insert the wedge to secure the mother-of-all. (hardware bag #2)



STEP 4A



STEP 4B

Step 5. Insert the crank with attached footmen through the rear legs from the back to the front. Place the thicker plastic washer on the crank. Push the crank through the rear legs as far as it will go. (hardware bag #3)



STEP 5

Step 6. Slide the red drive wheel onto the crank with the attached hub (center wooden piece in the wheel) facing front. Line up the hole in the wooden hub with the hole in the crank and secure with a 9/64" hex bolt. Put the thinner plastic washer on the crank.

Note: Wheels built after 9/9/2014 will use a 9/64" hex wrench instead of the screwdriver shown here.



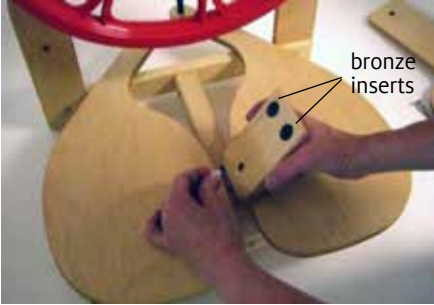
STEP 6

Step 7. Place the drive cord over mother-of-all on either side of wheel. (hardware bag #4)



STEP 7

Step 8. Put a 10•24 barrel nut in the lower section of the front leg. Slide the tenon into the mortise in the center brace, with the bronze inserts to the left. Secure with a 10•24 x 2" trusshead screw inserted from the bottom of the center brace.

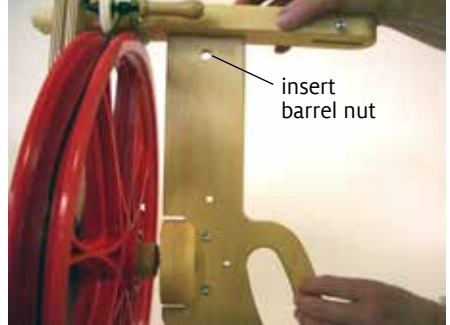


STEP 8A



STEP 8B

Step 9. Slide the tenon on the upper front leg into the mortise on the bottom of the mother-of-all and at the same time slide the front leg onto the crank. Insert a 10•24 barrel nut in the hole at the top of the front leg and secure with a 10•24 x 2" trusshead screw inserted through the top of the mother-of-all.



STEP 9A



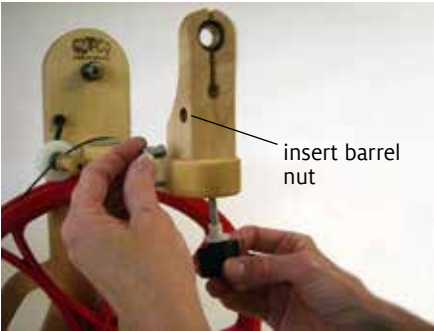
STEP 9B

Step 10. Use two 10•24 x 1/2" truss-head screws to attach the lower leg to the upper front leg. Be careful not to force the small screws; move around gently and they will go into the threaded inserts in the lower front leg.



STEP 10

Step 11. Place the front maiden into the mother-of-all. Use the 1/4" •20 barrel nut and the large front maiden knob with plastic slide to secure.



STEP 11

Step 12. Select one of the whorls and fasten it to the back of the rear legs above the wood wedge using the whorl knob.



STEP 12

At this point, continue with step 2 of the instructions in the Ladybug Instructions, Maintenance and Warranty manual. You will use the contents of hardware bag #6.

