

HORIZONTAL WARPING MILL

ASSEMBLY INSTRUCTIONS



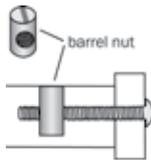
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HORIZONTAL WARPING MILL

ASSEMBLY INSTRUCTIONS

HARDWARE

- 8 – 1-3/4" flat-head machine screws
 - 2 – 2-1/2" truss-head machine screws
 - 12 – barrel nuts
 - 1 – metal axle
 - 2 – 3-1/2" truss-head machine screws
 - 4 – 1/2" washer
 - 1 – 8-coil spring
 - 2 – 1/2" lock nut
 - 1 – nylon spacer
- for warping peg holders:*
- 4 – 1/4" washer
 - 4 – wing nuts
 - 4 – carriage screws



PARTS

- 4 – frame cross slats
- 4 – frame cross slat supports
- 2 – warping peg holder assemblies
- 2 – warping mill bases
- 1 – cross brace
- 2 – warping mill uprights

TOOLS

- Phillips screwdriver
- Flat screwdriver
- Pliers
- Adjustable wrench

ASSEMBLE THE WARPING PEGS

Attach a warping peg holder to each warping peg holder support, using 2 carriage screws, 2 wing nuts and 2 washers on each assembly (figure 1). Insert each bolt from the peg side through the holder and the support and fasten with a washer and wing nut.

ASSEMBLE THE FRAMES

1. Assemble one frame completely. Orient the frame sides with the countersunk holes to the outside. Place 1-3/4" machine screws in the countersunk holes and secure with barrel nuts (diagram 2). Make sure the notches in the center of the cross pieces face in the same direction.

2. Assemble three of the four corners of the second frame, and then interlock this second frame with the first frame. The notches on the first and second frames should face each other so that the two frames will fit together (figure 2). Now fasten the remaining corner of the second frame.

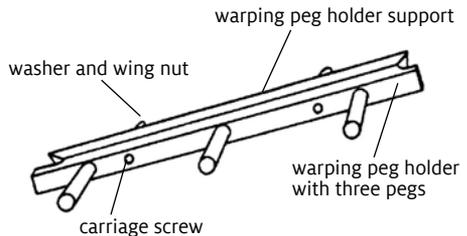


FIGURE 1

ASSEMBLE THE WARPING MILL BASE

1. Attach the bases to the uprights using two 3-1/2" trusshead machine screws and barrel nuts (see figure 2).
2. Attach the cross brace to the bases using two 2-1/2" truss-head machine screws and barrel nuts.
3. Insert the axle through the holes in the center of the frames. If the axle does not slide through the holes easily, slightly loosen all of the 1-3/4" flat-head machine screws on the frames. When the axle is in place, retighten all the screws.

4. Place the nylon spacer, one washer, and a lock nut loosely on one side of the axle.
5. On the other side, place a washer, the spring, two more washers, and a lock nut loosely on the other side of the axle.
6. Set the axle into the slots in the uprights. On the outside of each upright should be only one washer and a lock nut. Tighten the lock nuts enough to compress the spring slightly so ends of the axle and lock nuts are flush.

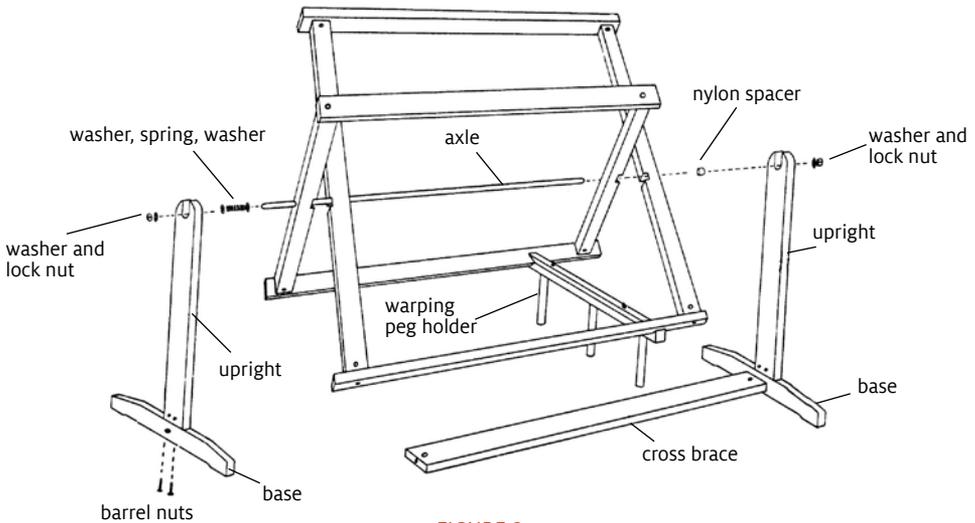


FIGURE 2

ATTACH THE WARPING PEGS

Attach the warping peg holder to the frame cross slats by tightening the 2-1/2" carriage bolts and wing nuts, with washers. The two sets of peg holders may be attached to any side of the warping mill.

WIND A WARP

Cut a guide string the length of your warp plus a few inches. Use a yarn or string that is visibly different from your warp yarn.

Attach the guide string at one warping peg holder. Make the first leg of the

cross, then turn the warping mill to wind the guide string around it. Space the windings of the guide string to allow room for multiple warp ends. Adjust the second warping peg holder so that you can attach the guide string to a peg.

Begin winding your warp by attaching your yarn to the first warping peg holder. Make the cross, then turn the mill with one hand while following the guide string with the other hand holding the warp yarn, until you reach the second warping peg holder.

Loop your warp yarn around the peg you chose on the second warping peg holder. Reverse the direction you turn the warping mill, follow the guide string back to the first warping peg holder, and complete the cross.

REMOVE THE WARP

To remove the warp from the warping mill, loosen the wing nuts on one set of the peg holders and slide this set of pegs a few inches towards the other set of pegs. This will relieve enough tension to remove the warp easily.

FOLD THE WARPING MILL

To fold the warping mill, remove the warping peg holders and gently pull the frames apart enough to separate the notches and swivel the frames flat.

