

SCHACHT STANDARD FLOOR LOOM™

ASSEMBLY

FL3121	FL3322
FL3123	FL3324
FL3125	FL3326
FL3127	FL3328



HIGH CASTLE LOOM IN CHERRY



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

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ASSEMBLY

PARTS

Wrapped onto warp beam:

- 3X apron bars
- 2X lease sticks

Accessory packs:

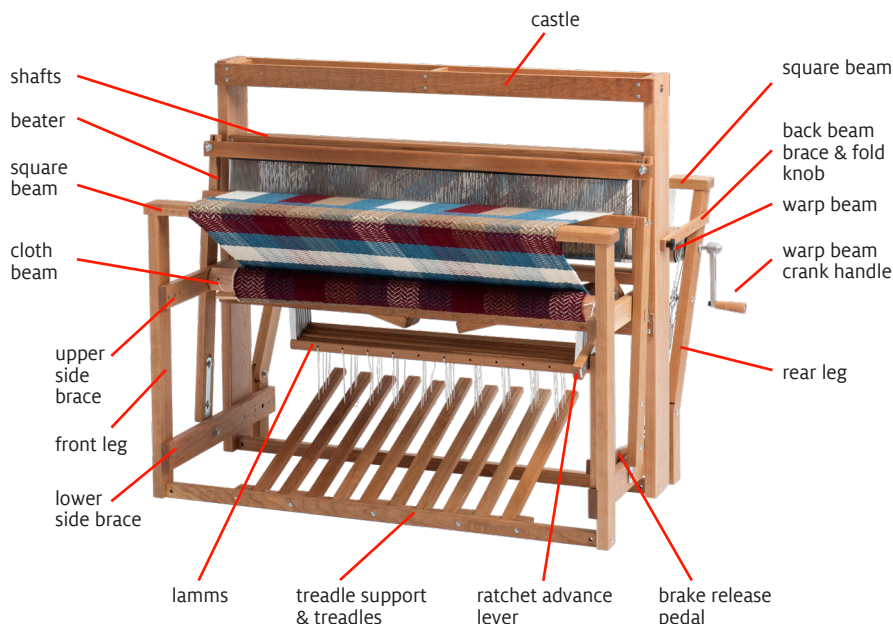
- 1000X heddles
- 1X warp beam crank handle
- 1X 1/2" cap nut
- 1X 1/2" USS washer
- apron cords:
- 14X 33" cords for 36" maple loom
- 18X 33" cords for 45" maple loom
- 2X 360" cords for 36" cherry loom
- 2X 480" cords for 45" cherry loom

tie-ups (8-1/8"):

- 80 for 36" loom, 96 for 45" loom
- 3X extra 8/32" hex nuts for shafts
- 1X brass reed hook
- 1X 11" boat shuttle & bobbin

TOOLS REQUIRED

- 7/16" or adjustable wrench
- 1/2" and 9/16" wrenches or 2 adjustable wrenches
- rubber mallet or hammer and scrap wood



See Figure 2 (page 4) and Figure 8 (page 8) for detail diagrams of brake and beater.

UNFOLDING THE BACK BEAM

When you receive your loom, the back beam will be folded up against the castle. It is fastened in position with a black fold knob that passes through the back beam brace and fastens into a metal insert in the castle side. To extend the beam for weaving, remove the fold knobs and their nylon washers from both sides of the loom. Hold on to the back beam and ease it back until the hole at the end of the brace lines up with the insert in the castle. Thread a fold knob through a nylon washer, insert it into the hole, and tighten. Line up the other brace and secure it in the same way. Your loom is now in weaving position.

ATTACHING THE WARP BEAM CRANK HANDLE

The warp beam crank handle attaches to a threaded rod on the right back leg of the loom (Figure 1). Locate the washer, cap nut, and the warp beam crank handle in the accessory pack. Place the 3/8" washer and then the metal handle on the threaded rod with the wooden handle facing out. Secure with the 3/8" cap nut. Tighten the nut by placing the handle over it and turning clockwise. To engage the crank for turning the warp beam, pull the hexagonal hole in the crank onto the cap nut. While you are weaving, the crank should be pushed off the cap nut onto the threaded rod.

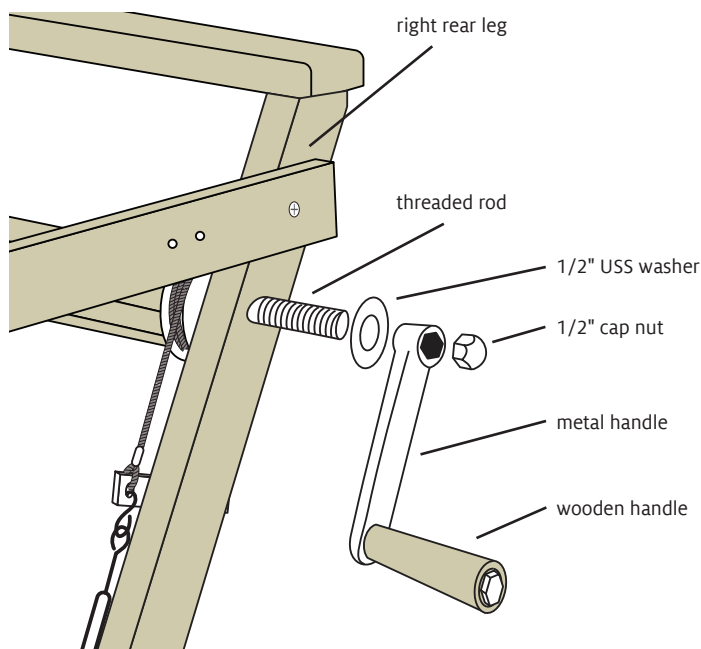


FIGURE 1: INSTALLING WARP BEAM CRANK HANDLE

ADJUSTING THE FRICTION BRAKE

Adjust the friction brake's action by tightening or loosening the turnbuckle (Figure 2). To see if the friction brake is adjusted properly, run the following test: Stand at the rear of the loom and grip the warp beam firmly with both hands. Try to turn the warp beam away from you (if you view the beam from the left side of the loom, you would be turning the beam in a clockwise direction).

If the beam turns at all, tighten the turnbuckle; turn it a few times until the spring lengthens. If the warp beam still turns, tighten the turnbuckle again. Repeat until the warp beam will not turn under a good amount of pressure.

Now depress the brake release pedal at the front of the loom. While the brake release pedal is down, you should be able to turn the warp beam easily in the clockwise direction. Remember to press the brake release pedal whenever you are winding or unwinding the warp beam. Use the wing nut under the back of the brake release pedal to set the pedal to your preferred angle.

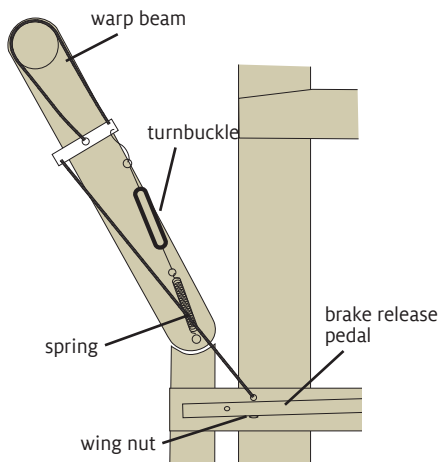


FIGURE 2: ADJUSTING FRICTION BRAKE

THE BRAKE RELEASE HOLD

The brake release hold is used to keep the brake release pedal depressed when you are winding on the warp (Figure 8, page 8). Push the brake release pedal down and adjust the brake release hold: pull it out and slightly back so it is wedged against the brake release pedal, holding it down in the release position.

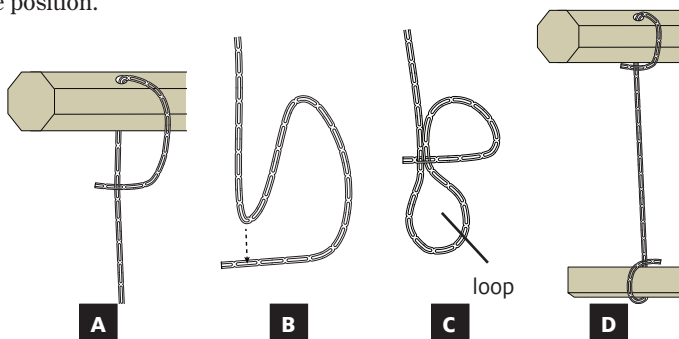


FIGURE 3: ATTACHING APRON BARS

ATTACHING THE APRON BARS

There is one cord for each hole in the cloth and warp beams. Insert one end of a cord through a hole in the beam and pull the cord through. Then insert the other end through the second hole in the end of the cord that you just put through the beam. Pull firmly on the cord to tighten (Figure 3A). Repeat across the cloth beam and the warp beam.

To attach the apron bar to the apron cords, take a pinch of the cord about 4" from the end (Figure 3B). Insert the pinched cord through the second hole in the cord. Pull on the pinched cord until a new loop forms that is large enough for the apron bar to slip through (Figure 3C). Slide the apron bar through the loop (Figure 3D) and pull tight. Repeat until all cords are attached to the apron bar. Attach the other apron bar to its beam in the same way.

INSTALLING HEDDLES

If your loom has a high castle, first remove the accessory tray (see page 7, Removing Shafts on High Castle Looms). Remove the nut from the jack riser bolt at the bottom of each shaft (Figure 4) and pull the shaft from the loom castle by lifting it straight up. Lay the shaft frame flat on a table so you can see all parts shown in Figure 5. Shafts on 45" looms have two heddle bar hooks on each heddle bar.

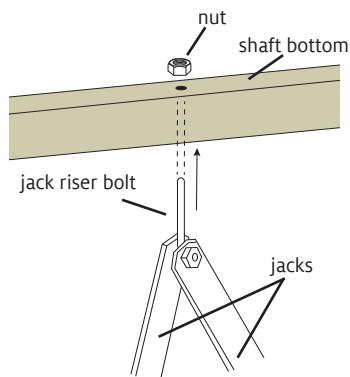


FIGURE 4: REMOVING AND ATTACHING SHAFT FRAMES

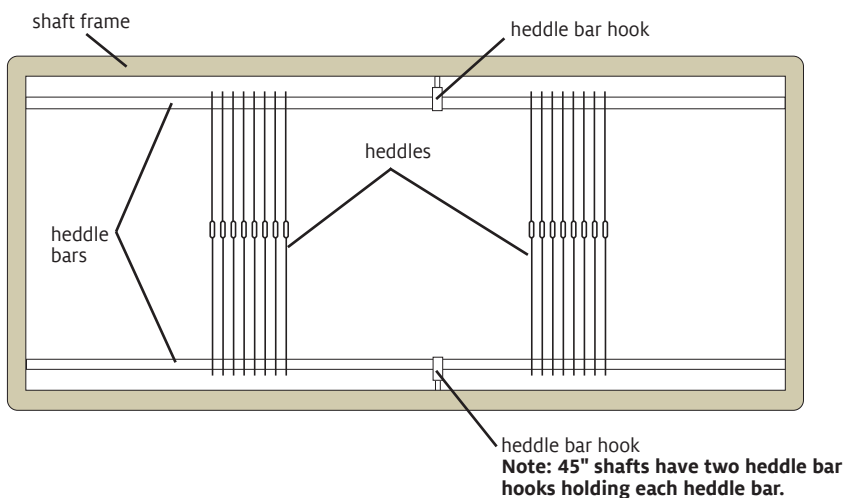


FIGURE 5: HEDDLES ON A SHAFT

Push up on the slide lock(s) on the heddle bar hook(s) and pull the heddle bar out of the hook(s) (Figure 6A). Release the slide lock. Flex the heddle bar enough to remove one end from the slot in the side of the frame. Remove the other end from the frame (Figure 6B).

Keep the heddles loosely tied until the heddle bars are installed in the shaft frame. Be sure to keep the heddles oriented in the same direction for easier threading. Lay the heddle bars next to the heddles. Carefully slide a group of heddles onto the heddle bars (Figure 6C).

Replace the heddle bars in the shaft frame. Insert one end of each heddle bar in the slot in the frame. Flex the heddle bar and insert the other end into its slot. Divide the heddles approximately in half and push them to either end of the heddle bar. Push up on the slide lock and place the heddle bar back on the hooks (Figure 6D).

Repeat this step for the other shafts. For 4 Now-4 Later looms, you can install all the heddles on shafts or set them aside them to install with the 4-Later kit.

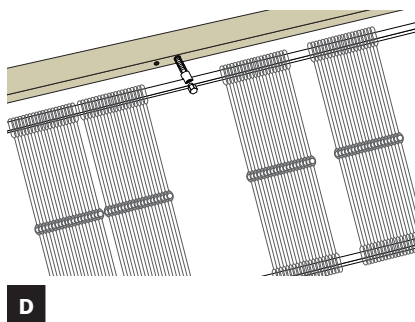
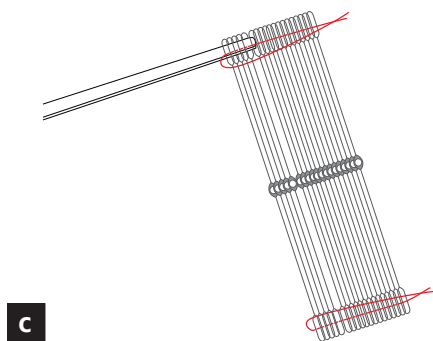
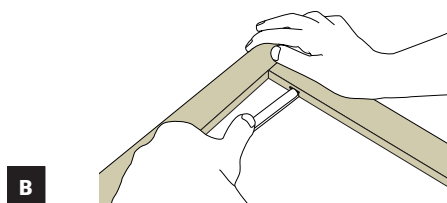
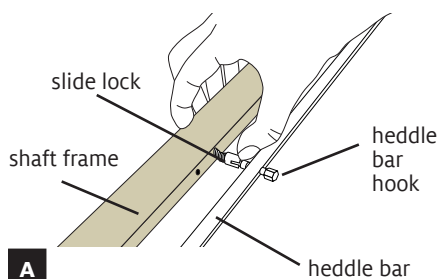


FIGURE 6: INSTALL HEDDLES

REMOVING SHAFTS ON HIGH CASTLE LOOMS

To remove the shafts from the castle, you must first remove the accessory tray from the top of the castle. It is attached by two bolts accessible from inside the tray, at either side of the loom. Use a 7/16" wrench to remove these bolts and their washers. Lift the tray straight up to remove it. You may need to give it a tap with a rubber mallet from underneath. (If you do not have a rubber mallet, you can use a hammer with a block of wood to protect the loom from the hammer). Be sure to tighten the bolts after the tray is put back on, as they add to the loom's stability.

INSTALLING THE TIE-UP CORDS

There is one tie-up cord for every lamm hole: 80 for 36" looms and 96 for 45" looms. For 36" looms, and for the 10 innermost treadles on 45" looms, loop one end of each tie-up cord through a hole in the lamm. For the 2 outermost treadles on 45" looms, the tie-up cords are inserted through the hollow pin at the end of each lamm (Figure 7).

Work from the front lamm to the rear lamm for each treadle. Loop one end of the tie-up cord through the lamm as illustrated. Slip the cord through the slot in the treadle. The tie-up cord should hang straight down to the treadle, not angled forward or back. After you have tied up all treadles, push each treadle all the way to the floor and then lift it back up. Make sure that the plastic buttons of the tie-up cords are positioned firmly against the treadle.

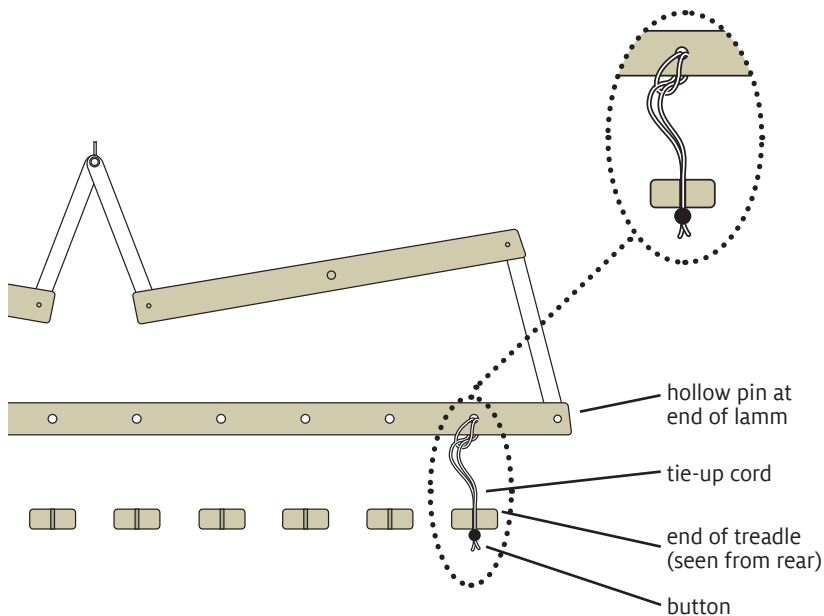


FIGURE 7: INSTALLING TIE-UP CORDS

ADJUSTING BEATER HEIGHT

The height of the beater has been set at the factory to suit the average weaver for most projects. If you want to raise or lower the beater, loosen the two nuts on the inside of each of the metal beater supports (Figure 8). Position the beater at the desired height and tighten the nuts. Be sure that you have set both beater sides at the same height.

ADDING A LAMP

The high castle loom has holes in the top of the castle for the swivel pin of a lamp (Figure 8). ■

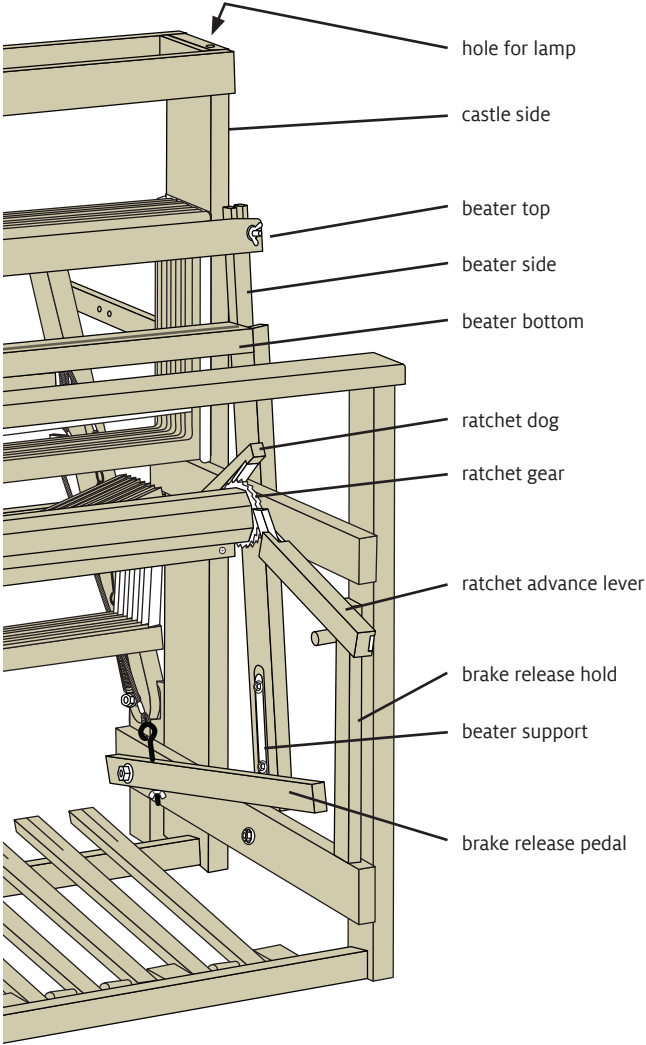


FIGURE 8: RIGHT FRONT OF LOOM