4-LATER KIT

INSTALLATION INSTRUCTIONS
FOR STANDARD FLOOR LOOMS
AND WOLF LOOMS

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
© 2013 Schacht Spindle Company, Inc.
PARTS
4 – Shaft (Harness) Frames
2 – #3 Jacks / Lamm Assemblies
2 – #4 Jack / Lamm Assemblies
4 – 8/32" hex nuts
12 – 3/8" washers

TOOLS
7/16" wrench or adjustable wrench

INSTALL THE JACK/LAMM ASSEMBLIES

1. Remove the four screws that secure the rear castle cross brace at either end (figure 1). Then remove the two lock nuts and washers from the rear castle cross brace.

   Be careful not to allow the head of the carriage bolt to turn. The carriage bolt is seated in a square hole on the front castle cross brace and turning the bolt will widen and destroy this hole.

Looms with serial numbers prior to 070891 will not have carriage bolts. They have 1/4" aluminum rods which have been fitted between the front and rear castle cross braces. For these looms, just remove the four screws that secure the rear castle cross brace.

2. Remove the rear castle cross brace, being careful not to pull the jack pivot pins (figure 1) out of their holes in the front castle cross brace. (The jack pivot pins go through the center of each set of jacks and connect to the front and rear castle cross braces just below the long bolt.) (figure 2).

3. Remove the nylon spacers from the jack pivot pins. They will not be needed once you install the new jack/lamm assemblies.

4. First place the jack mechanisms labeled with “3” onto the jack pivot pins in the same manner as the jack mechanisms for the first 4 shafts. Place a metal washer on the pivot pin between each jack.

5. Place the jack mechanisms labeled with “4” on the jack pins, with washers between and put two washers between the 8th jack and the rear cross brace (figure 1).

6. Replace the rear castle cross brace. Be careful to fit the jack pivot pins and the carriage bolts into their respective holes in the cross brace. Secure the cross brace with the four screws. Make sure the heads of the carriage bolts are seated firmly in the square holes in the front cross brace so they will not turn, then fasten them with a washer and lock nut, and tighten with the wrench.
INSTALL THE NEW SHAFTS, HEDDLES AND TIE-UPS

1. When you received your original 4Now-4Later loom, you received a total of 1000 heddles, enough for all eight shafts. Now you may need to rearrange or add heddles, so that they are divided evenly (or as you prefer) among all eight shafts.

2. If you need to move heddles from your existing shafts to the new ones, first remove the shafts. Unscrew the nut from the jack pin in the bottom of each of the first four shafts and lift the shafts off the jack pin and out of the shaft channel.

3. Before you attempt to move heddles from one shaft frame to another, bundle the heddles that you are moving by inserting a string through the top and bottom holes of the heddles and tying the string in a tight circle (figure 3).

4. To remove or install the heddles, place a shaft on a flat surface, unhook the heddle bar hooks, and bend the heddle bars out of the side slots.

5. Slide the heddles off or onto the heddle bars. Replace the heddle bars in the side slots, re-hook the heddle bar hook and untie the bundle string.

6. Install the shafts in the loom, starting with the first shaft. Make sure you orient the shaft so that the heddles are all facing in the same direction.

7. Fit the jack pins into the holes in the bottom of the shafts and replace nuts on the jack pins.

8. Locate your treadle cords. You would have received a total of 80 treadle cords with your original 4Now-4Later loom. With only 4 shafts, you would have needed only 40 of the cords. Now you will need the rest for shafts 5-8.

![Diagram of loom parts and instructions](image_url)
Figure 2
view from rear of loom
only new harnesses are shown

Figure 3

Figure 4

shaft or harness channel