FL3006E
FL3009E

WOLF PUP LT LOOM™

Assembling Disassembled Looms

BEFORE YOU BEGIN

- Read through the directions before starting to assemble your loom.
- You'll find a complete labelled diagram of the Wolf loom in your Maintenance and Warranty manual and at schachtspindle.com.
- Wolf loom legs are called out by where they cross each other. The legs that touch the ground at the front of the loom are called "inside" legs because they are covered by the "outside" legs when they cross at the loom center.
- The beater is at the front of the loom. The brake is on the right side of loom.
- All wooden parts of the loom have been finely sanded and finished with hand-rubbed Danish oil. From time to time, you may wish to apply more finish to the loom. Use a Danish oil (tung oil and polyurethane mixture) and hand-rub the wood with a soft lint-free cloth. Be sure to follow the finish manufacturer's instructions.
- Unpack the loom parts carefully and compare them to the drawings on pages 2 and 3. Do not throw away the carton or any of the packing material until you have checked to see that all of the parts and hardware bags have been included.
- Hardware for your loom has been packed into bags for different steps in the assembly process. **Open each bag only when you reach those steps, then identify the pieces included in that bag.**
- Follow the exact order of assembly. Take care and work slowly. It will be easier to assemble your loom with a helper. Some steps may require two people.
- When you finish assembling the loom, go back over all of the screws and make sure they are tight. For screws on parts that need to pivot, tighten the screw firmly, then unscrew just enough to allow free movement. It is a good idea to re-tighten all screws on your loom every few months.

TOOLS

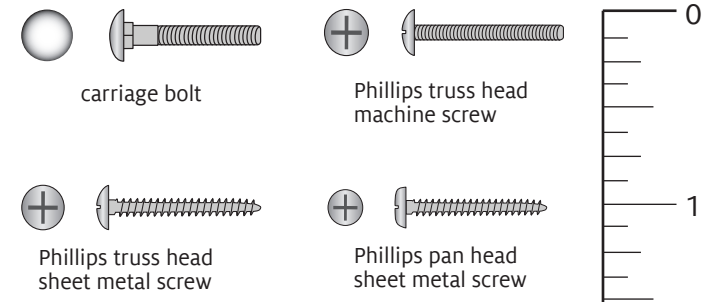
#2 Phillips screwdriver
slotted (flat) screwdriver and/or masking tape
adjustable wrench or wrenches in the following sizes:
5/16", 7/16", 3/8", 1/2"

COMMON HARDWARE

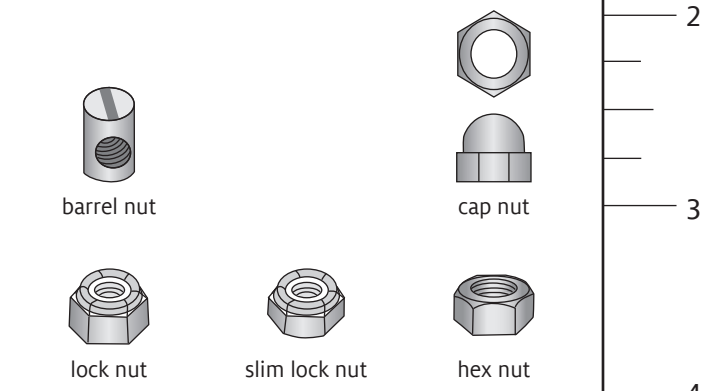
These drawings are not to scale and hardware is not shown in every size listed.

- **Screws and bolts** are sized in inches, measured by **shaft length**. Measure the shafts of screws and bolts with a metal tape measure or the ruler on this page. First identify all the screws and bolts in a bag, then it will be easier to identify any nuts.
- **Nuts** attach to carriage bolts and machine screws. They have to match the bolt or machine screw in **diameter** and **thread size**. Match the numbers at the beginning of the description (for instance, 10-24 or 1/4-20) to the corresponding bolt or machine screw.
- **Washer** sizes refer to the **diameter of the hole**; measure the hole with a metal tape measure or the ruler on this page. The washers shown below all the same size, but they are different types. For the same size washer, SAE washers have the smallest outside diameter, fender washers have the largest outside diameter, and USS washers are in the middle.

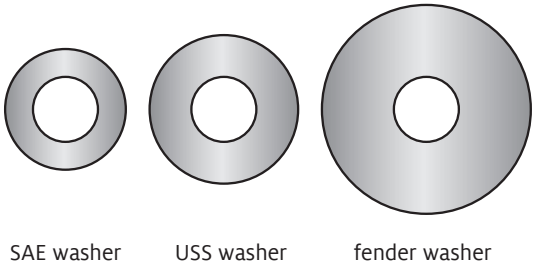
For more help identifying hardware, see our guide at https://schachtspindle.com/blogs/faqs/how-do-i-identify-hardware-when-i-assemble-my-schacht-product



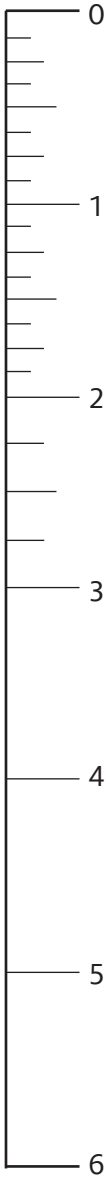
IDENTIFYING SCREWS AND BOLTS



IDENTIFYING NUTS



IDENTIFYING WASHERS



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

Quantities given for hardware bags are the minimums needed for assembly; there may be extras included. Photos on this page are not to scale.

HARDWARE BAG A—STEPS 1–3

4X fold bars
4X 10-24 x 1-1/4" carriage bolts
8X #8 SAE washers
4X 10-24 lock nuts
2X 1/4-20 x 2" Phillips truss head machine screws
2X 1/4-20 barrel nuts
2X 1/4" USS washers
2X 5/16-18 lock nuts
2X fold knobs (plastic knobs with 1" threaded shafts)
2X plastic T-nut slides

HARDWARE BAG B—STEPS 5–6

2X 1" plastic beater pegs
2X 1/4-20 x 2" Phillips truss head machine screws
2X #12 SAE washers
2X 1/4-20 slim lock nuts
2X 5/16-18 slim lock nuts
2X 1/4-20 barrel nuts
2X 1/4-20 x 2-1/4" Phillips truss head machine screws

HARDWARE BAG C—STEPS 7–11

2X 3/8" USS washers
1X plastic arrow peg
1X brake barrel nut
1X 1/4-20 x 1" Phillips pan head machine screw
1X brake bar and cable
2X 1/4" USS washers
1X 5/16-18 slim lock nut
1X brake S-hook
1X brake eye bolt
1X #12 SAE washer
1X brake spring with insert

HARDWARE BAG D—STEPS 12–18

1X warp beam crank handle
1X 3/8" cap nut
1X 3/8" USS washer
4X 1/4-20 barrel nuts
2X 1/4" x 1" fender washers
2X back beam knobs (plastic knobs with 2-1/4" threaded shafts)
2X 1/4-20 x 3" Phillips truss head machine screws
1X beater pin and chain
1X beater pin holder
1X #6 x 5/8" Phillips pan head sheet metal screw
2X caster & wheel sets
4X 1/4-20 x 1-1/2" Phillips truss head machine screws
4X 1/4-20 lock nuts

CORDS BAG

1X brake cord
8X 29" apron cords
24X tie-ups

ACCESSORIES PACK

1X brass reed hook
300X inserted eye heddles
1X treadle tracker


fold bar


plastic T-nut slide


1" plastic beater peg


brake S-hook

plastic arrow peg


fold knob


back beam knob

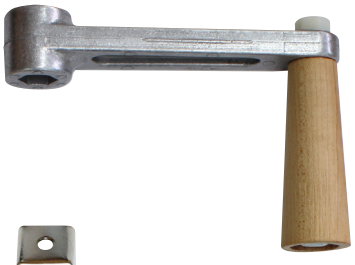

brake barrel nut


brake spring with insert


brake eye bolt


beater pin and chain


brake bar and cable


warp beam crank handle


beater pin holder

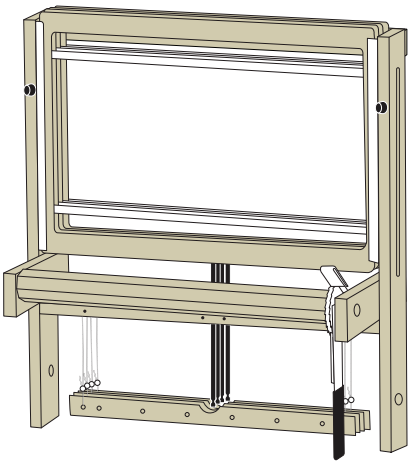

tie-up cords


apron cords

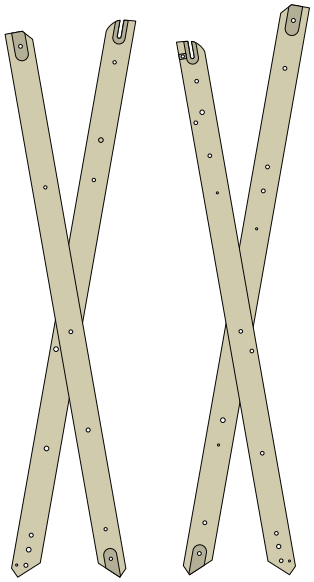

brake cord

PARTS

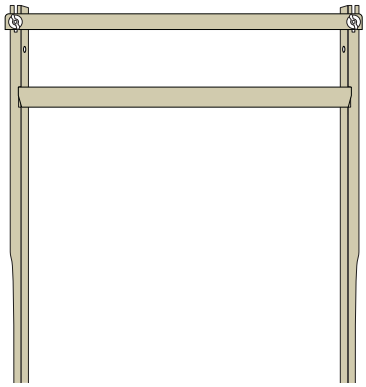
left and right pairs of legs
castle assembly, including 4X shafts, 8X heddle bars, and
lamms (wrapped around cloth beam)
treadle assembly
beater
front beam with front beam extension
warp beam
rear leg brace
removable back beam
treadle tracker
3X apron bars
2X lease sticks (with holes)



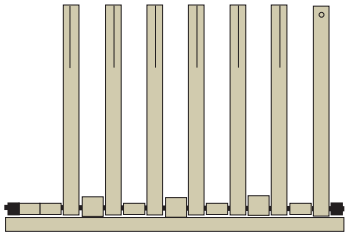
castle assembly



left pair of legs (inner side)
right pair of legs (inner side)

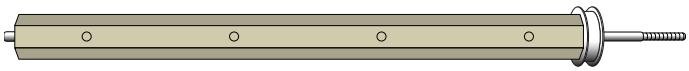


beater



treadle assembly

front beam & front extension

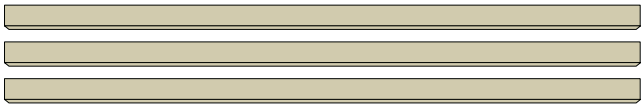


warp beam

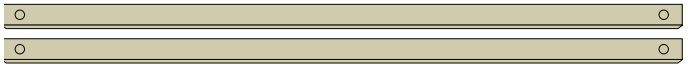
rear leg brace (small pins on each end)

removable back beam

treadle tracker



apron bars



lease sticks

ASSEMBLY INSTRUCTIONS

1. Attach the fold bars to the legs.

Parts: left and right pairs of legs
Hardware bag A: 4X fold bars, 4X 10-24 x 1-1/4" carriage bolts, 8X #8 SAE washers, 4X 10-24 lock nuts

NOTE: Wolf loom legs are called out by where they cross each other. The legs that touch the ground at the front of the loom are called "inside" legs because they are covered by the "outside" legs when they cross at the loom center.

Lay one pair of legs on the floor. Orient the fold bars as shown in Figure 1A, with round holes meeting between the legs and the jogs in the bars pointing toward the floor (the inside of the loom).

On the inside leg, identify the **first** hole above the bolt where the legs meet. Insert a 3/16" x 1-1/4" carriage bolt through the square hole of the fold bar, then through a #8 SAE washer, then through the hole in the leg from above, then through another #8 SAE washer. Secure the carriage bolt with a 3/16" lock nut (Figure 1B); attach the lock nut just tightly enough to allow the fold bar to rotate.

On the outside leg, identify the **third** hole above the bolt where the legs meet. Insert a 3/16" x 1-1/4" carriage bolt through the square hole of the fold bar, then through a #8 SAE washer, then through the hole in the leg from below, then through another #8 SAE washer. Secure the carriage bolt with a 3/16" lock nut (Figure 1B); attach the lock nut just tightly enough to allow the fold bar to rotate.

Repeat this step for the remaining pair of legs.

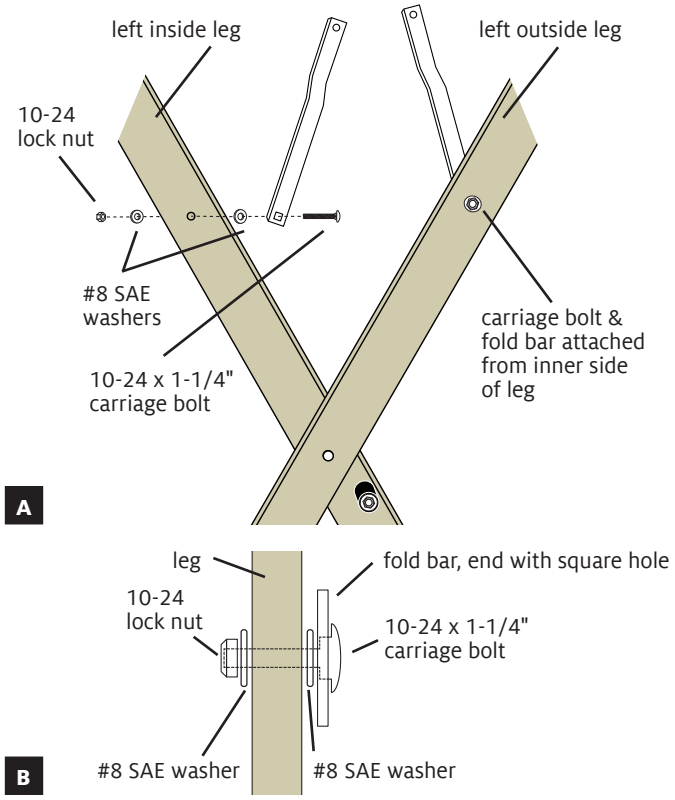


FIGURE 1: ATTACH FOLD BARS TO LEGS

2. Attach the treadle assembly to the inside legs.

Parts: treadle assembly
Hardware Bag A: 2X 1/4-20 x 2" Phillips truss head machine screws, 2X 1/4-20 barrel nuts

Set the treadle assembly on the floor right side up, so you cannot see the 1/2" round depressions on the underside of the treadles. The brake release pedal should be at the right (Figure 2A). Remove all packing material from the ends of the treadle bar, leaving any washers and nylon spacers in place.

Stand the right legs upright, leaning them against a wall or having a helper hold them in position. Be careful: until the treadle assembly has been attached, the leg assemblies can fall over easily.

Line up the pin at the end of the treadle support with the small hole on the inside of the legs, and the treadle bar with the 3/8" hole in the legs (Figure 2B). Insert the pin and treadle bar into their holes.

From underneath the treadle support, place a barrel nut into its hole; hold it in place with masking tape and/or a slotted screwdriver. Insert a 1/4-20 x 2" Phillips truss head machine screw into the right inside leg from the outside, then tighten it firmly into the barrel nut (Figure 2C).

Attach the treadle assembly to the left leg in the same way.

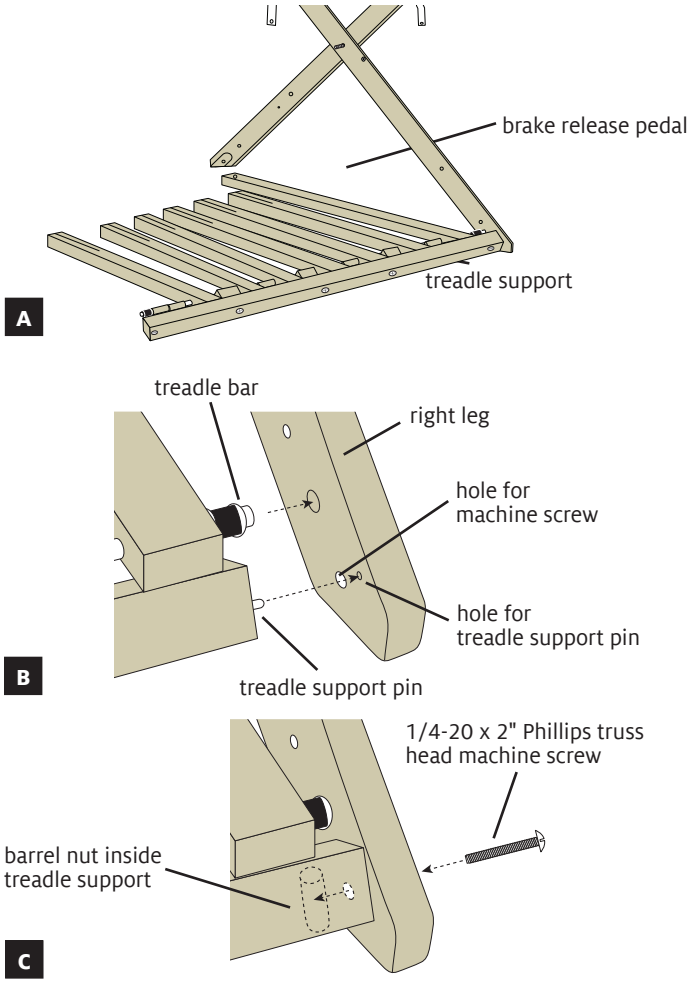


FIGURE 2: ATTACH TREADLE ASSEMBLY TO INSIDE LEGS

3. Attach the castle assembly to the legs.

Parts: castle assembly
Hardware bag A: 2X 1/4" USS washers, 2X 5/16-18 lock nuts, 2X fold knobs, 2X plastic T-nut slides

NOTE: THIS STEP REQUIRES TWO PEOPLE.

Remove any packing material from the carriage bolts installed in the leg assemblies.

Insert the castle assembly, with the cloth beam at the front and the metal treadle rods at the bottom, between the leg assemblies. Line up the pre-installed carriage bolts in the legs with the lower holes in the right and left castle sides (Figure 3A). Secure both carriage bolts with 1/4" USS washers and 5/16-18 lock nuts, leaving the lock nuts loose enough to allow the castle sides to move slightly.

On one side of the loom, rotate the fold bars so they cross over the castle side. The fold bar from the outside leg should sit closest to the castle side as shown in Figure 3B. Insert a black fold knob through the fold bars and into the wide end of a plastic T-nut slide; the narrow cylinder of the T-nut slide fits into the slot. Position the metal T-nut inside the slot with a screwdriver so you can insert the fold knob into it. Tighten the fold knob. Repeat for the other side of the castle assembly.

Now tighten the 5/16-18 lock nuts holding the castle assembly to the legs.

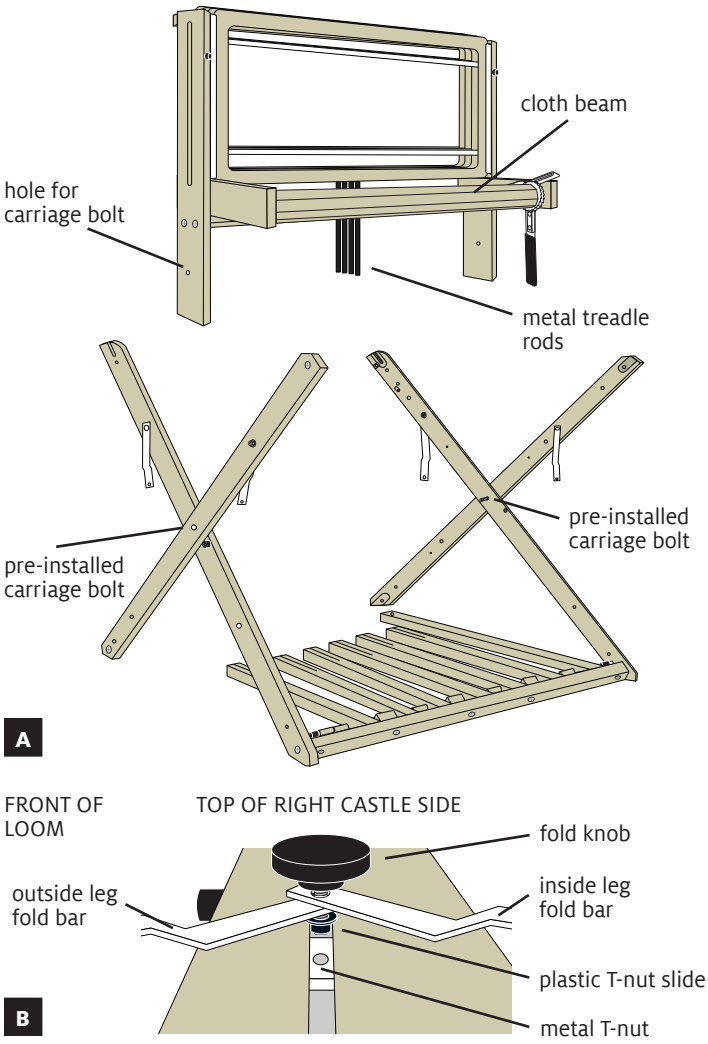


FIGURE 3: ATTACH CASTLE ASSEMBLY TO LEGS

4. Install tie-up cords.

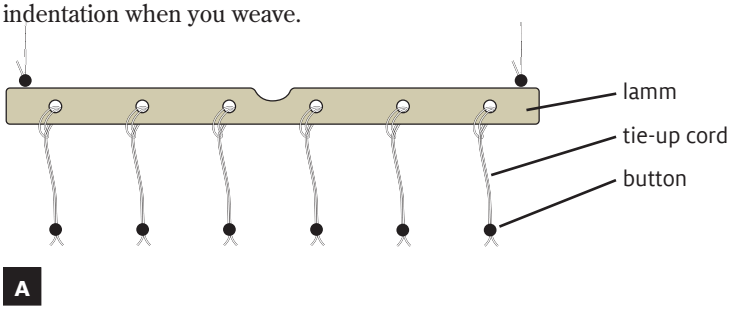
Cords Bag: 24X tie-up cords

Remove the tape around the cross brace and lamms underneath the shafts. Allow the lamms to hang underneath the shafts.

There is one tie-up cord for each hole in the lamms. Put the loop end of a tie-up cord through each hole and pull the button end through the loop until the cord is secure against the lamm (Figure 4A).

Tie the shafts to the treadle by slipping a tie-up cord into the slot in the treadle (Figure 4B). Work from the front lamm to the rear lamm for each treadle. After you have completed your tie-up, check each treadle by pushing it all the way to the floor and releasing it, making sure that the button of each tie-up cord is up against the treadle and that each cord hangs straight down to the treadle.

There is a 1/2" diameter indentation on the underside of the top end of each treadle to prevent the tie-ups from slipping off when the loom is folded. The tie-up buttons should not rest in this indentation when you weave.



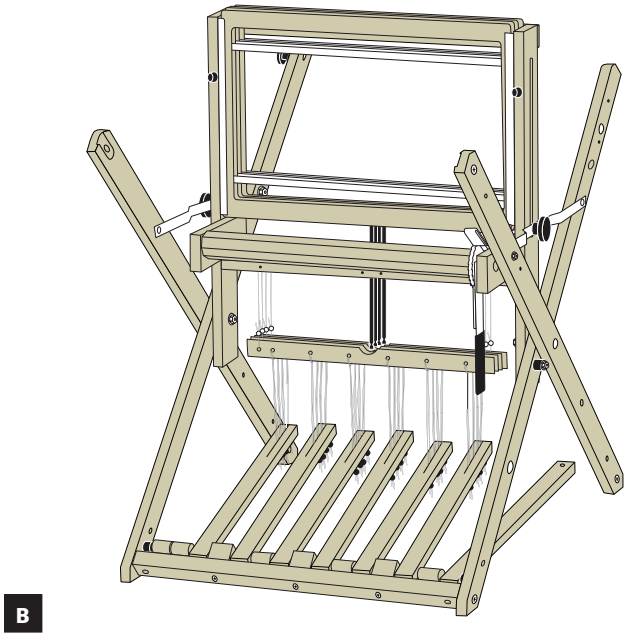


FIGURE 4: INSTALL TIE-UP CORDS

5. Install the beater.

Parts: beater
Hardware Bag B: 2X 1" plastic beater pegs, 2X 1/4-20 x 2" Phillips truss head machine screws, 2X #12 SAE washers, 2X 1/4-20 lock nuts, 2X 5/16-18 slim lock nuts

Loosen the wing nuts holding the top of the beater and remove the beater top. Remove the reed from the beater.

Install the beater pegs (Figure 5A): Insert a 1/4-20 x 2" Phillips truss head machine screw through a 1" plastic beater peg, then through the beater side from its outer side. From the inside of the beater, secure the screw with a #12 SAE washer and a 1/4-20 slim lock nut. Repeat on the other side of the beater.

Secure the beater to the leg assemblies with a 5/16-18 slim lock nut on each bolt (Figure 5B). Tighten the lock nuts all the way, then loosen one-half to one full turn to allow the beater to move freely.

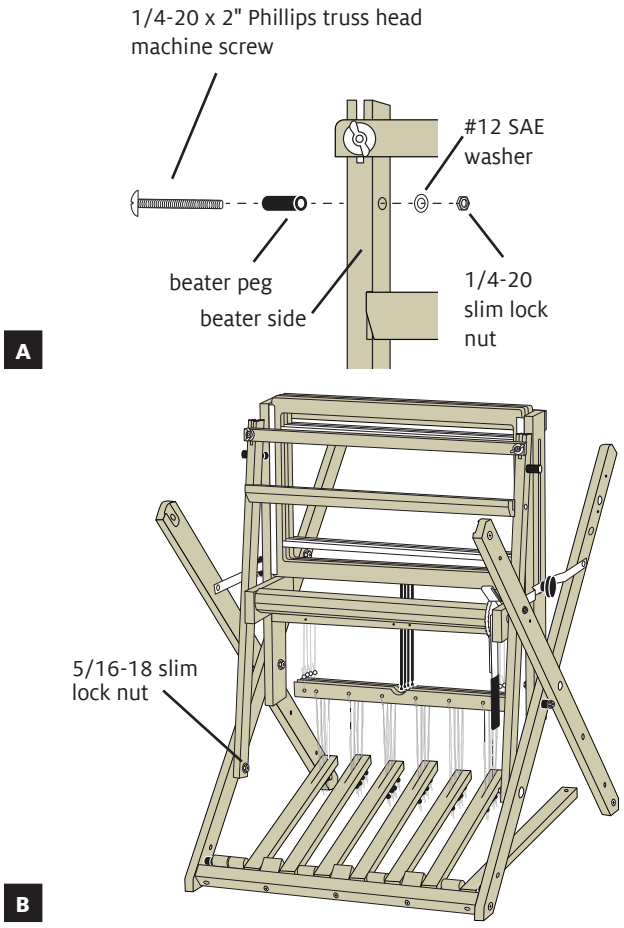


FIGURE 5: INSTALL BEATER

6. Attach the front beam.

Parts: front beam with attached front beam extension
Hardware Bag B: 2X 1/4-20 x 2-1/4" Phillips truss head machine screws, 2X 1/4-20 barrel nuts

Orient the front beam with the extension facing the front of the loom, with the rounded long edge of the front beam facing up; position the front beam between the outside legs (Figure 6).

Insert a 1/4-20 barrel nut in the hole at one end of the front beam; use masking tape and/or a slotted screwdriver to hold it in place. Insert a 1/4-20 x 2-1/4" Phillips truss head machine screw through the leg from the outside and tighten it firmly into the barrel nut. Repeat for the other end of the front beam.

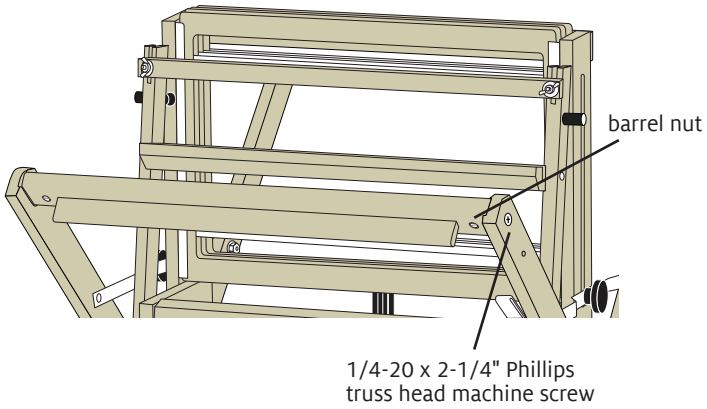


FIGURE 6: INSTALL FRONT BEAM WITH EXTENSION

7. Install the warp beam.

Parts: warp beam
Hardware Bag C: 2X 3/8" USS washers

Place a 3/8" USS washer on each end of the warp beam. Working from the back of the loom, slip the threaded rod through the hole in the inside right leg as far as it will go. Fit the pin in the other end into the stopped hole in the inside left leg—this hole does not go all the way through the leg (Figure 7). You will have to spread the right and left inside legs apart to accomplish this.

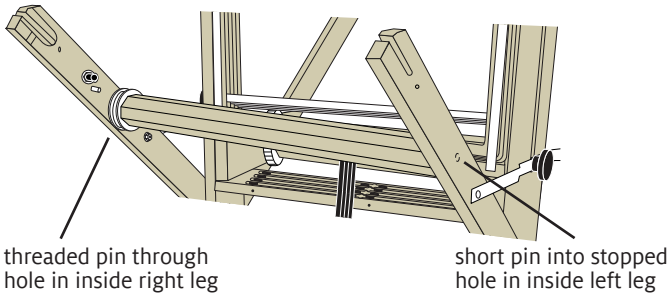


FIGURE 7: INSTALL WARP BEAM

8. Install the brake barrel nut.

Hardware Bag C: 1X brake barrel nut, 1X 1/4-20 x 1" Phillips pan head machine screw

From the outer side of the inside right leg, push the screw through the leg and tighten into the brake barrel nut (Figure 8).

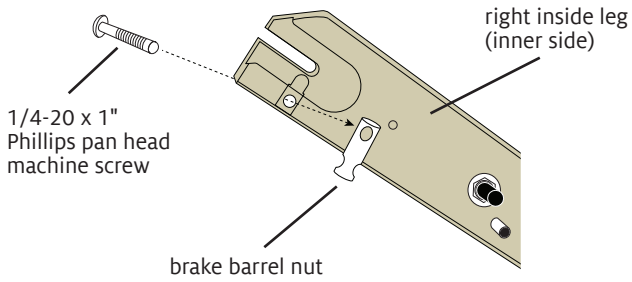


FIGURE 8: INSTALL BRAKE BARREL NUT

9. Install the brake bar and brake cable.

Hardware Bag C: 1X brake bar and cable, 2X 1/4" USS washers, 1X 5/16-18 slim lock nut

Remove all packing material from the pre-installed screw on the inside right leg, just above the roll pin (Figure 9A). Place the brake bar and a 1/4" USS washer on this screw, orienting the brake bar as shown in Figure 9B.

Take the loose end of the brake cable and wrap it under and around the brake drum three times. Start next to the loom leg and wrap with loops moving towards the loom center, making sure not to overlap the cable (Figure 9C). Place the loop end of the cable over the pre-installed screw and place a 1/4" USS washer over the cable. Secure the brake bar with a 5/16-20 slim lock nut (Figure 9C). Be sure that the brake bar can pivot freely—if it does not, slightly loosen the lock nut.

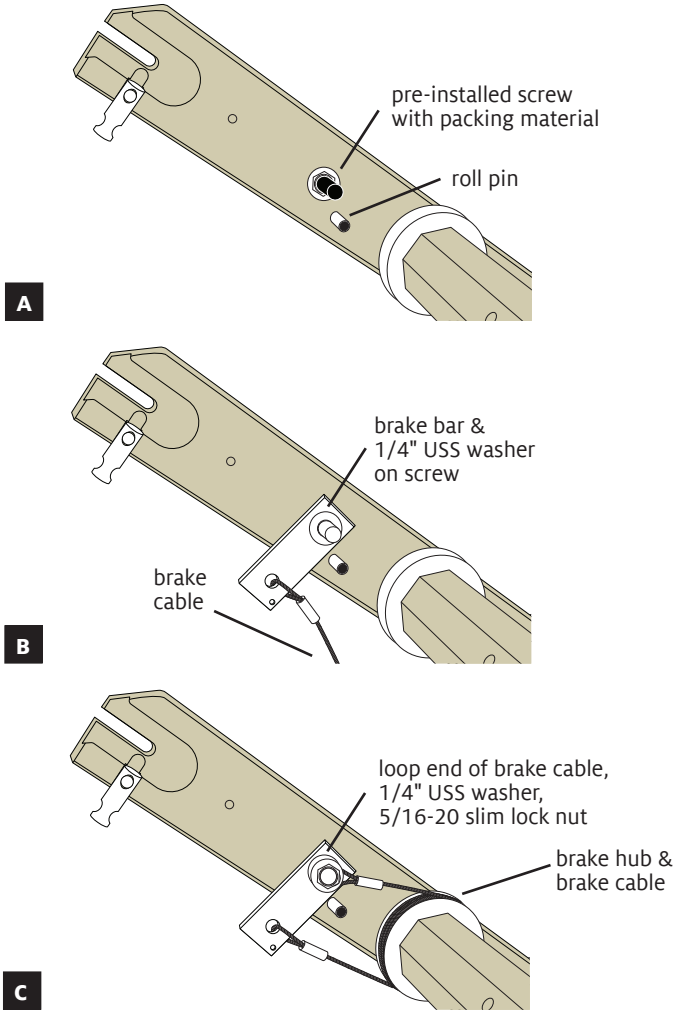


FIGURE 9: INSTALL BRAKE BAR AND BRAKE CABLE

10. Install the brake cord.

Hardware Bag C: 1X S-hook, 1X plastic arrow peg
Cords Bag: 1X brake cord

Hang the S-hook in the hole on the rear of the brake bar (Figure 10A). Insert the other end of the S-hook through the loop in the Texsolv brake cord. Slip the remaining end of the Texsolv brake cord through the hole at the end of the brake release pedal (Figure 10B). Secure the brake cord by inserting the plastic arrow peg into a loop at the end of the brake cord—you can set the pedal to your preferred height.

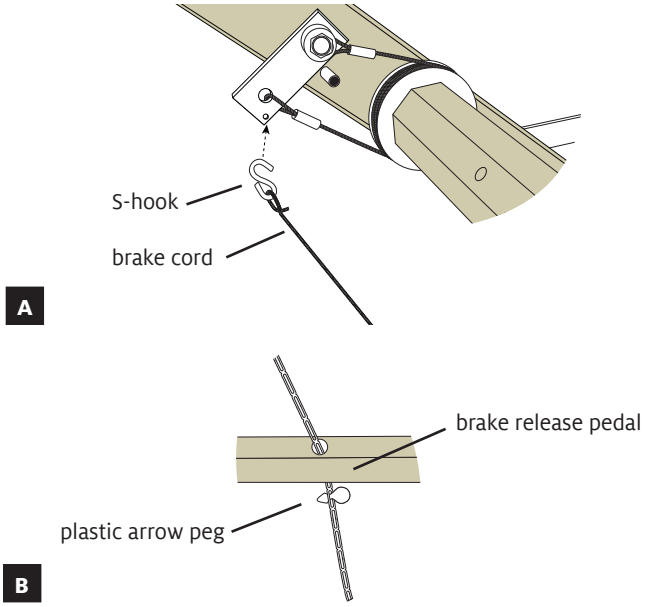


FIGURE 10: INSTALL BRAKE CORD

11. Install the brake eye bolt and brake spring.

Hardware Bag C: 1X brake eye bolt, 1X #12 SAE washer, 1X brake spring with insert

Hook the brake spring to the brake bar, in the hole shown in Figure 11. Insert the eye bolt through the #12 SAE washer, then through the hole in the brake barrel nut, and screw it into the spring insert.

Tighten the eye bolt until, when you stand at the rear of the loom, you can't turn the warp beam away from you with both hands. When you hold the brake release pedal down, the warp beam should turn freely in either direction.

You can increase or decrease the tension on the friction brake by tightening or loosening the eye bolt. There should be small gaps between the coils of the brake spring once the proper tension is reached.

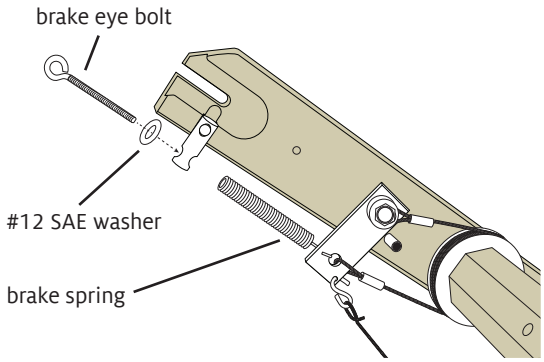


FIGURE 11: INSTALL BRAKE EYE BOLT AND BRAKE SPRING

12. Install the warp beam crank handle.

Hardware Bag D: 1X warp beam crank handle, 1X 3/8" cap nut, 1X 3/8" USS washer

Place the 3/8" USS washer and then the metal handle on the rod, with the wooden handle facing out. Secure with the the 3/8" cap nut (Figure 12).

When you're weaving, the crank should be pushed off of the cap nut. To engage the crank for turning the warp beam, pull the hexagonal hole in the crank onto the cap nut.

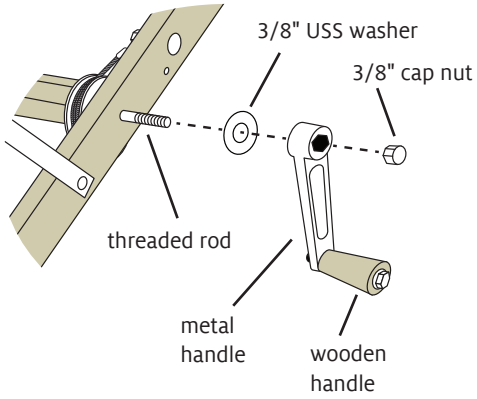


FIGURE 12: INSTALL WARP BEAM CRANK HANDLE

13. Install the removable back beam.

Parts: back beam
Hardware Bag D: 2X 1/4-20 barrel nuts, 2X 1/4" x 1" fender washers, 2X back beam knobs

Slide the back beam into the slots cut in the top of the inside legs. Insert a 1/4-20 barrel nut into the holes on each end of the back beam.

Place a 1/4" x 1" fender washer on a back beam knob and insert the knob through the leg, into the back beam, and tighten it into the barrel nut (Figure 13). Repeat for the other end of the back beam.

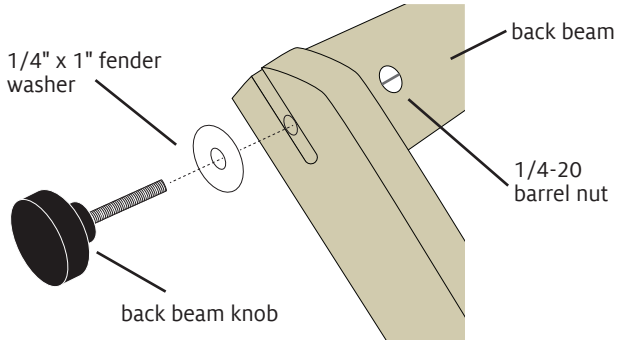


FIGURE 13: INSTALL REMOVABLE BACK BEAM

14. Install the rear leg brace.

Parts: rear leg brace
Hardware Bag D: 2X 1/4-20 barrel nuts, 2X 1/4-20 x 3" Phillips truss head machine screws

Insert a 1/4-20 barrel nut into the hole at one end of the rear leg brace; hold it in place with masking tape or a slotted screwdriver (Figure 14). Insert a 1/4-20 x 3" Phillips truss head machine screw into an outside leg from the outside. Tighten the screw firmly into the barrel nut.

Repeat this step for the other end of the rear leg brace.

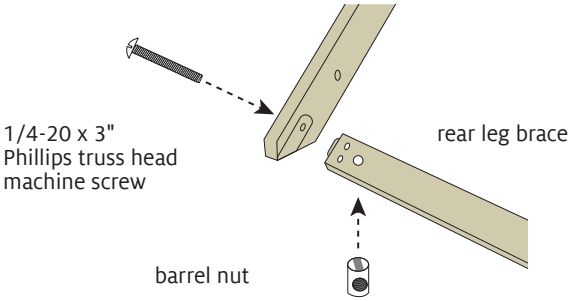


FIGURE 14: INSTALL REAR LEG BRACE

15. Install the beater pin and holder.

Hardware Bag D: 1X beater pin and chain, 1X beater pin holder, 1X #6 x 5/8" Phillips pan head screw

Insert the #6 x 5/8" Phillips pan head screw through the hole in the end of the beater pin chain and through the hole in the beater pin holder (Figure 15A). Fasten the screw to the small pilot hole in the right leg (Figure 15B). There will be a hole between the pilot hole and the screw holding the fold support bar.

The beater pin holds the beater upright during warping. Push the pin through the hole in the outside leg and then through the slot in the beater side (Figure 15C). Pull out the beater pin and replace it in its holder before weaving or before folding the loom.

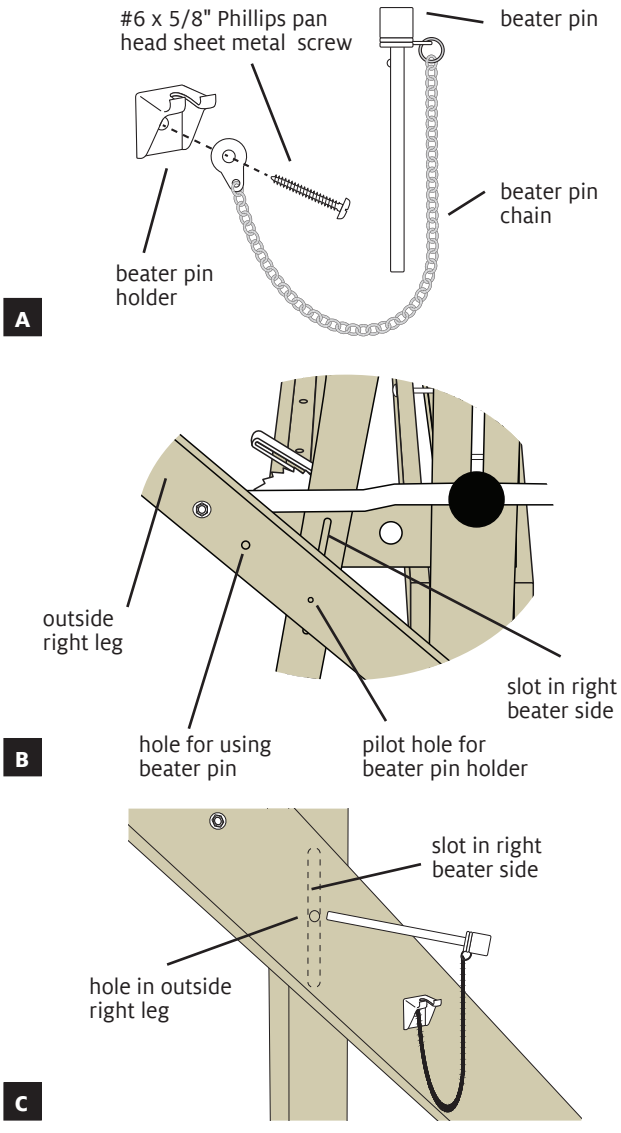


FIGURE 15: INSTALL BEATER PIN AND HOLDER

16. Install heddles and heddle bars on the shafts.

Parts: 8X heddle bars (installed in shafts), 300X heddles from accessory pack

Remove all heddle bars from the shafts: gently bend a bar until you can slide out one end from the shaft, then pull out the other end.

Open your heddle packages and divide the heddles into four groups of 75 (or other number as needed). It is easiest to do this if you keep the heddles on the string and slide them onto the heddle bars (Figure 16A). Make sure that your heddles are all oriented in the same way since this makes it easier to thread your loom. Once the heddles are on the heddle bars, tie them into a group.

Note: For right-handed threading, place the red end of the heddles at the top of the shaft frame. For left-handed threading, place them at the bottom.

Lift the first shaft and prop it up with a book or a small block of wood. The bottom of the shaft should be 3 to 4 inches higher than the other shafts. Insert a set of heddles on heddle bars into the castle in front of the raised shaft. Insert one end of each heddle bar into the slots in the side of the shaft. Bend the heddle bar and insert the end into the slot in the other side of the shaft (Figure 16B).

Repeat this process for the other shafts.

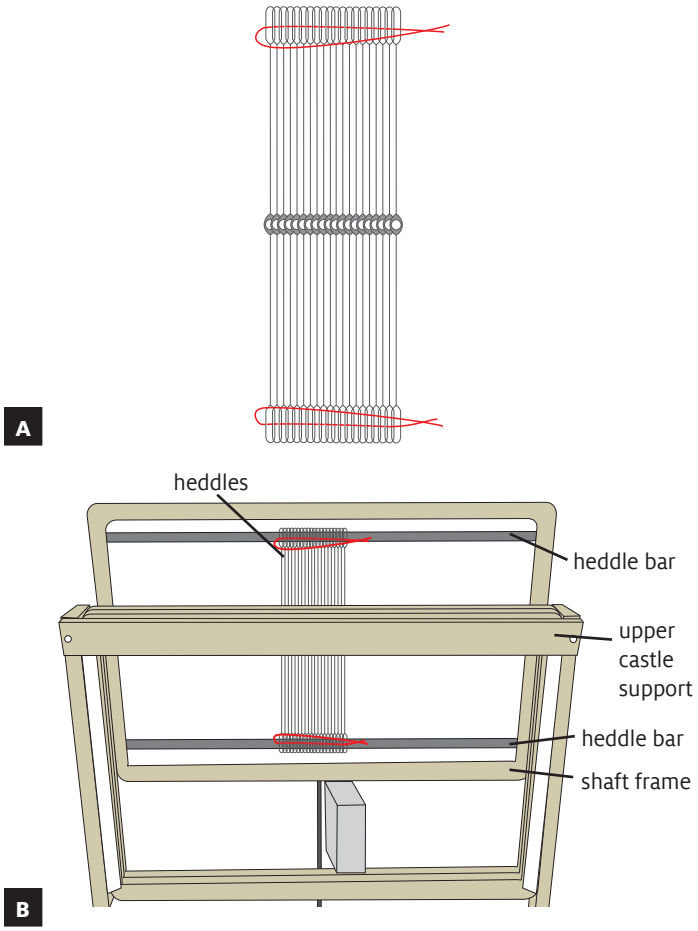


FIGURE 16: INSTALL HEDDLES

17. Install the wheels.

Hardware Bag D: 2X caster & wheel sets, 4X 1/4-20 x 1-1/2" Phillips truss head machine screws, 4X 1/4-20 lock nuts

Skip this step if you plan to add a stroller to your loom. Insert two 1/4-20 x 1-1/2" Phillips truss head machine screws through the holes in the casters, then through the rear leg brace from the back of the loom. Secure with two 1/4-20 lock nuts on the inside of the rear leg brace (Figure 17). Repeat with the second wheel.

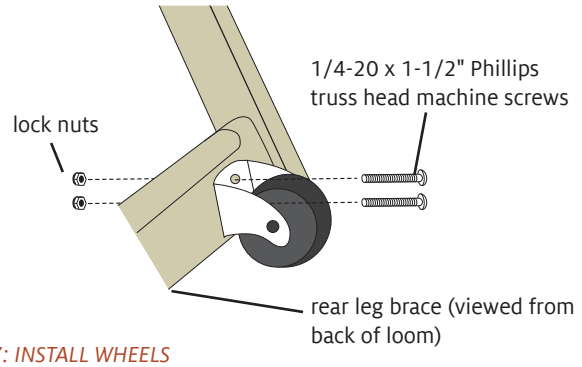


FIGURE 17: INSTALL WHEELS

18. Install the treadle tracker.

Parts: treadle tracker

With the clip on the treadle tracker facing the front of the loom, insert the treadle tracker into the slot in the top of the rear castle cross brace (Figure 18).

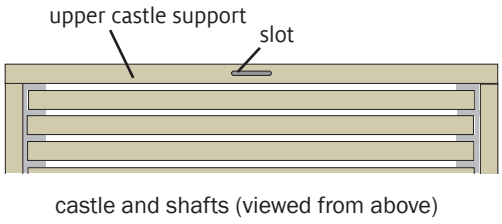


FIGURE 18: INSTALL TREADLE TRACKER

19. Attach the apron bars.

Cords Bag: 8X 29" apron cords or 2X 144" apron cords

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 19A). 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 19B). 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 19C). Slide the apron bar through the loop (Figure 19D) 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.

Note: This process is covered in the video *Assembling the Baby Wolf Loom* at youtube.com/user/schachtspindle.

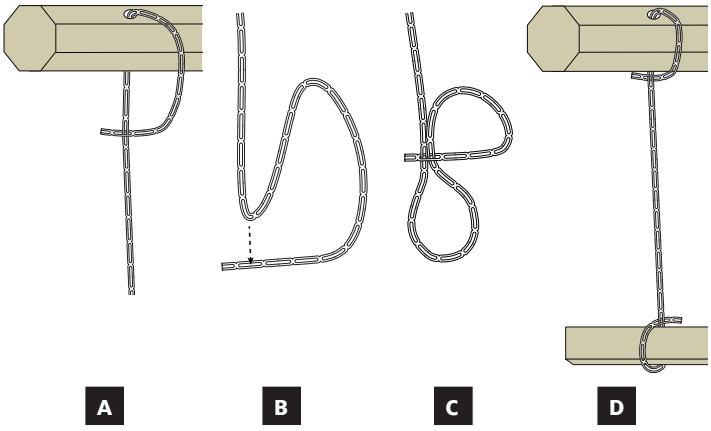
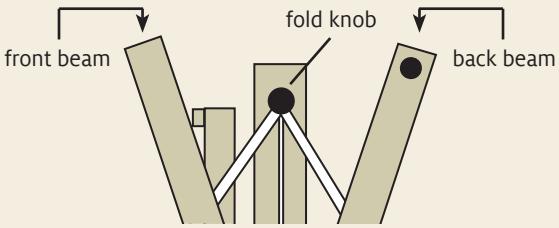


FIGURE 19: ATTACH APRON BARS

FOLDING THE LOOM

- To prevent treadles from dragging on the floor when the loom is folded, attach every treadle to at least one tie-up cord.
- Start folding the loom: loosen the fold knobs one full turn and pull them up in their slots.
- With one hand on the rear beam and one hand on the front beam, push the loom together as far as it will go.
- Tighten the fold knobs.



UNFOLDING THE LOOM

- Slightly loosen the fold knobs on each side of the loom. Generally, a single turn will do.

Loosening the knobs all the way or removing them can cause the loom to collapse, which could result in injury.

- Stand at the side of the loom. Hold the front and rear beams together slightly.
- Continue holding onto the front and rear beams and allow the loom to unfold all the way. If there is a warp on the loom, you may need to hold down the brake release pedal with your foot to loosen the warp as you unfold the loom.
- When the loom has completely opened, push the fold knobs down to the bottom of the slots in the castle. Tighten the knobs.

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