

# Leclerc Looms

Since 1876



## ARTISAT 36'' JACK-TYPE 8 SHAFTS BACK HINGE TREADLES

1573 Savoie  
C. P. 4 Plessisville, Qc.  
G6L 2Y6  
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FAX: 819-362-2045  
www.leclerclooms.com  
info@leclerclooms.com



On receiving the loom, unpack and lay out the loom components.  
Do NOT discard any packing material until all parts are inventoried.

Check the parts received against the parts list on pages #2 to #6 of the assembly instructions. Report any discrepancies to Leclerc immediately.

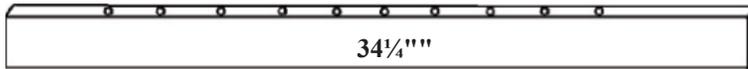
To assemble this loom, a minimum of 2 people are needed but it is recommended you use 3.

Loom Prepared by: \_\_\_\_\_

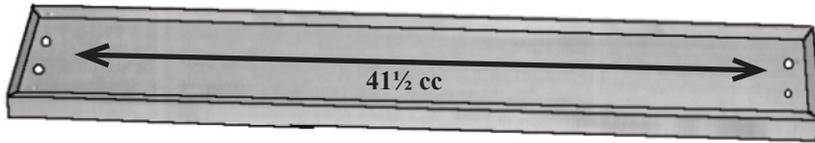
Inspected by: \_\_\_\_\_

Date: \_\_\_\_\_

# PARTS LIST



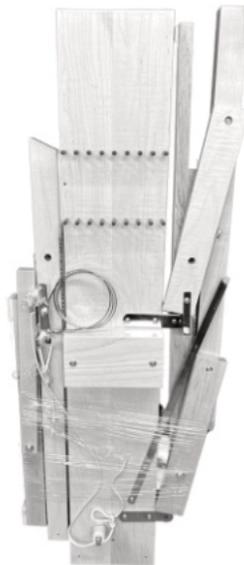
8 FLOATING LAMS



1 CASTLE TOP COVER



Note for Leclerc in French:  
 1) Poser les 2 vis de la base de pattes arriere pour le crochet.  
 Tête ronde no 12, 1" avec rondelle de nylon  
 2) Poser la pièce filetée du contrôle de friction sur la patte arriere gauche.  
 3) Faire les trous sur les sabots pour le séparateur de pédale + les trous pour pentures

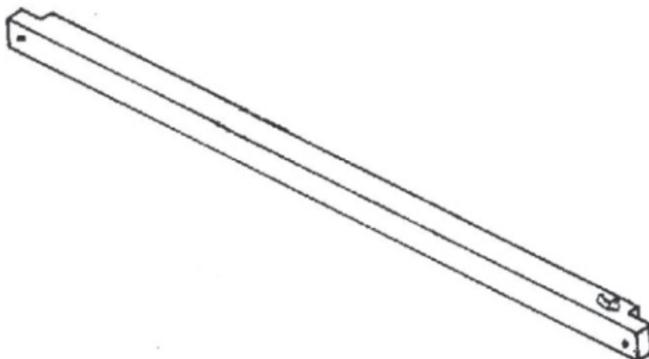


1 LEFT-HAND SIDE  
 with base packed seperatly

1 RIGHT-HAND SIDE  
 with base and brake treadle packed seperatly

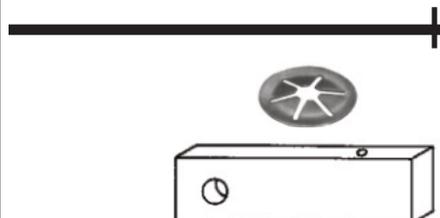


1 friction control system bolt



1 FRONT CROSS-MEMBER

Note for Leclerc in French:  
 4) Corde de frein coton 40"  
 5) Surveiller l'amanchement avec les pattes avant.



1 TREADLE ROD 27 3/4" with one push nut

1 MORE PUSH NUT 7/16"

2 TREADLE set SUPPORTS



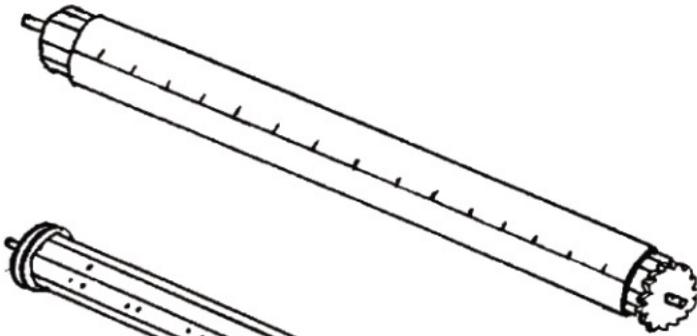
1 PK. 10 YDS FOR BEAM STICK  
 1 PK 5 YDS FOR BEAMING AND LEASE  
 STICKS



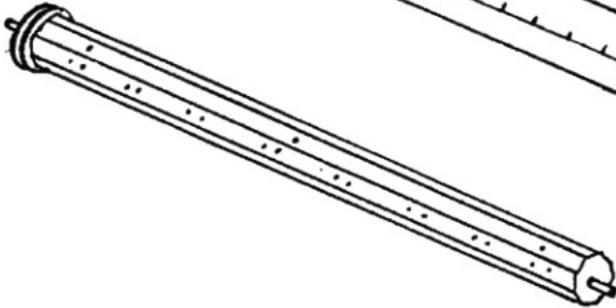
1 SHUTTLE 6122-3000



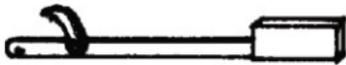
1 DOZ. BOBINES 4"



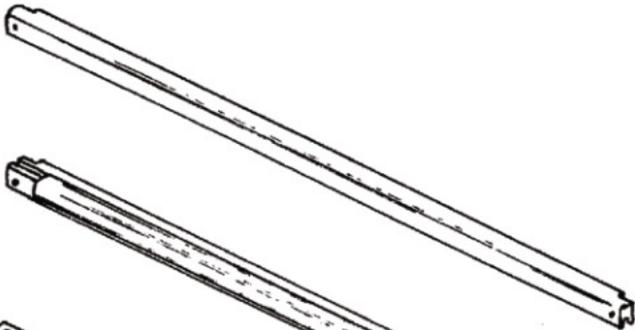
1 CLOTH BEAM WITH RATCHET  
 WHEEL (wood = 38 1/8")



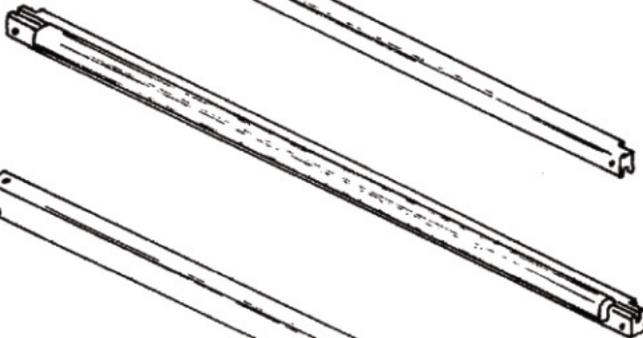
1 WARP BEAM WITH BRAKE DRUM  
 (wood = 38 7/8")



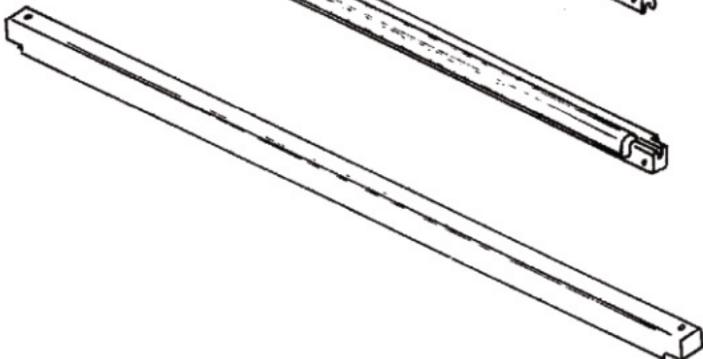
1 TAKE-UP MOTION HANDLE



1 BATTEN HANDTREE

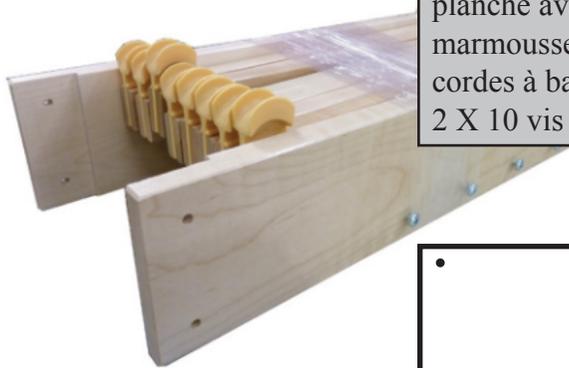


1 BATTEN SLEY WITH SHUTTLE RACE

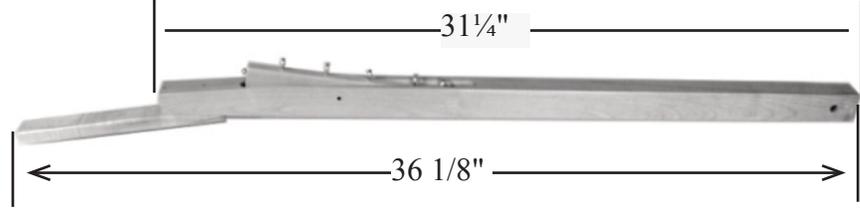
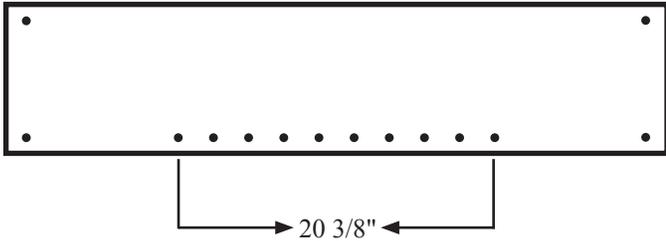


2 BREAST BEAMS

Note for Leclerc in French: La planche avant et arrière de la boîte à marmouset doit avoir les vis pour cordes à bascule et ressort à pédale  
 2 X 10 vis #12 x 3/4"



1 JACK BOX

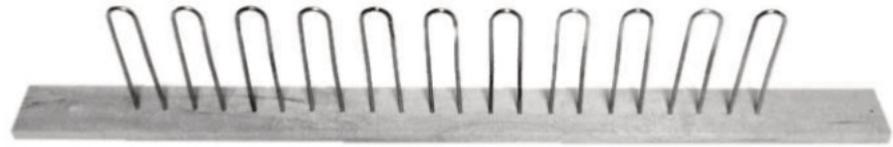


10 treadles with rocker piece

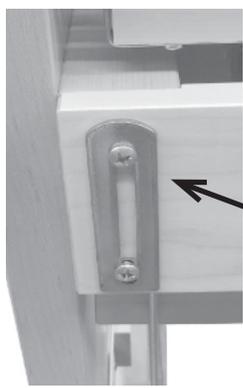
1 stabilizing post cross member assembly with 2 stabilizing back posts



2 Lams separators



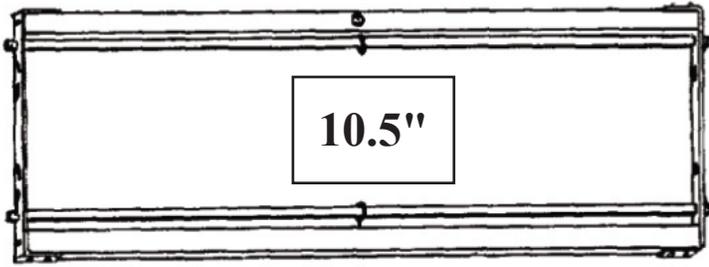
1 Treadle Separator 40" long



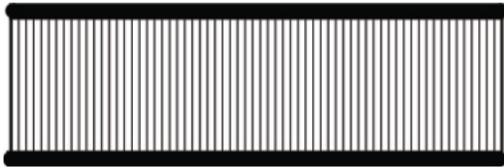
Protection plate



10 Treadle springs with Loop cords



8 SHAFT (harness) FRAMES



1 REED



2 LEASE STICKS



1 BEAM STICK



3 WARP RODS



1000 HEDDLES



1 HEDDLE AND REED HOOK 8 5/8" long  
6140-9000



1 Black Screwdriver

1 Red Screwdriver



1 Adjustment wrench



10 treadle hooks 9"



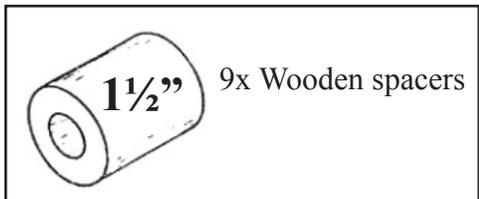
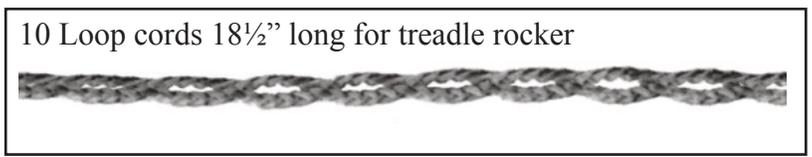
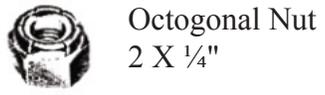
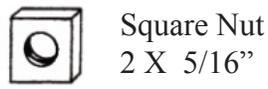
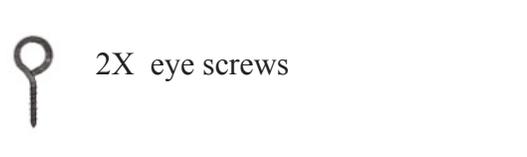
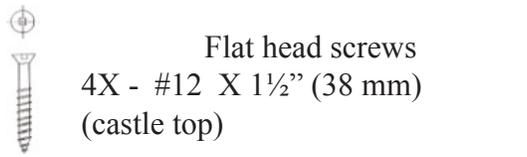
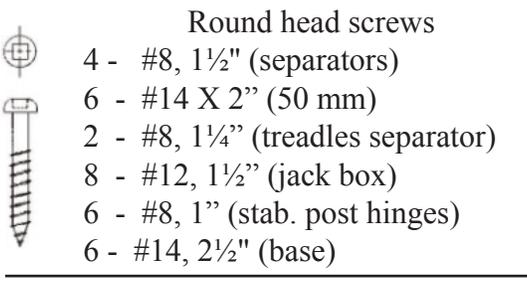
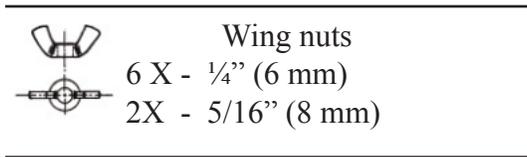
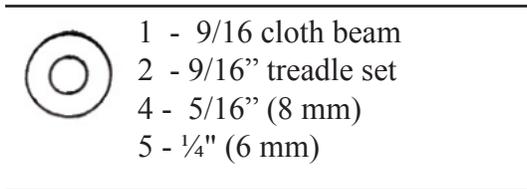
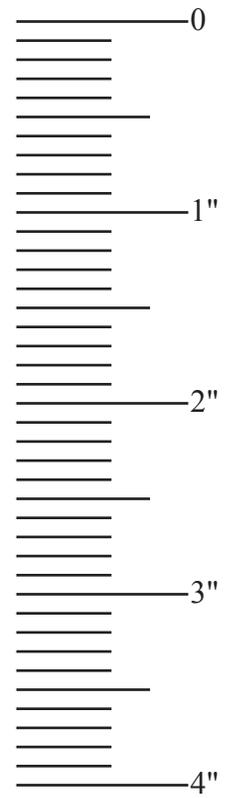
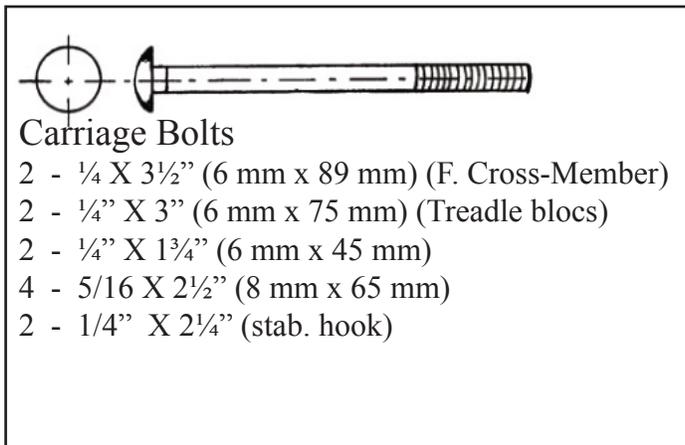
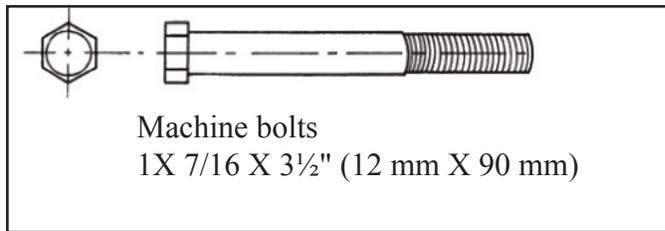
10 pegs to lock the treadle hooks



60 TREADLE CORDS 7"



1 CRANK FOR BACK BEAM

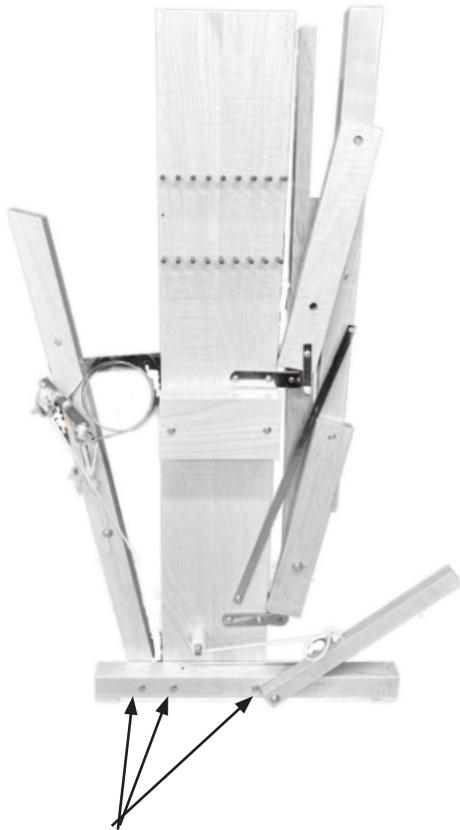


**Online Video** showing all stages of installation. In case of differences between the video and the instructions, follow the written instructions.



#14 round head screw 2½"

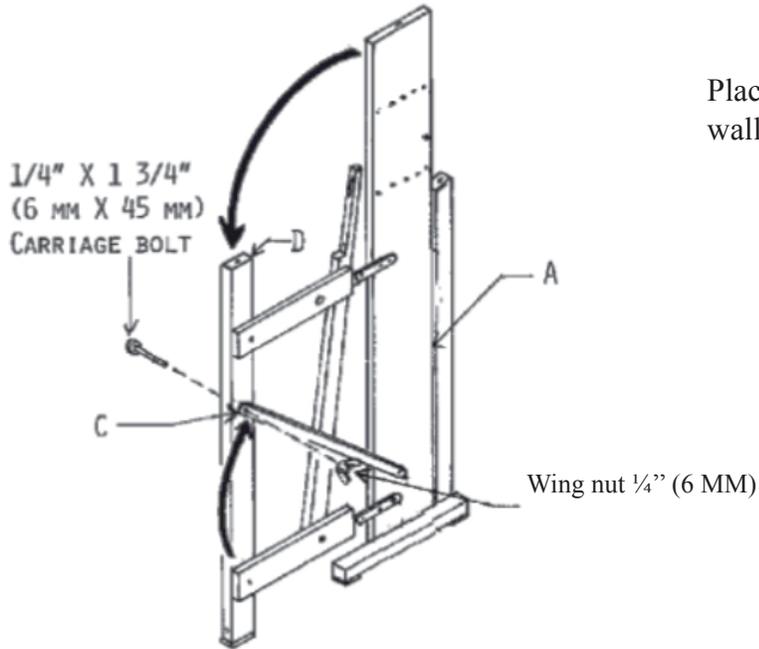
Lay the left side on the floor with caution (you can put a piece of cardboard on the floor). Removed the packing material and using three #14 round head screw 2½", affix the base to the left upright and the back post to the base.



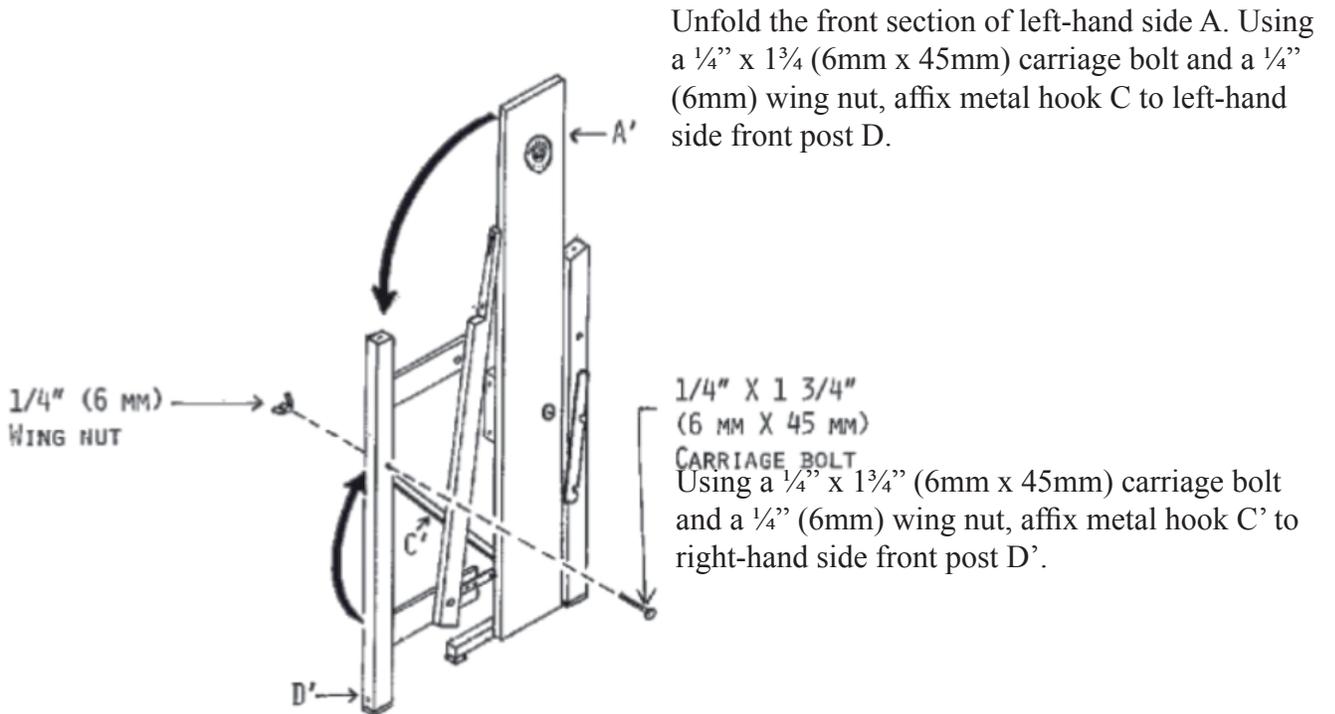
#14 round head screw 2½"

Lay the right side on the floor with caution (you can put a piece of cardboard on the floor). Removed the packing material and using three #14 round head screw 2½", affix the base (the brake treadle is already installed) to the right upright and the back post to the base.

**ATTENTION: Application of soap to the screws will make their insertion easier.**

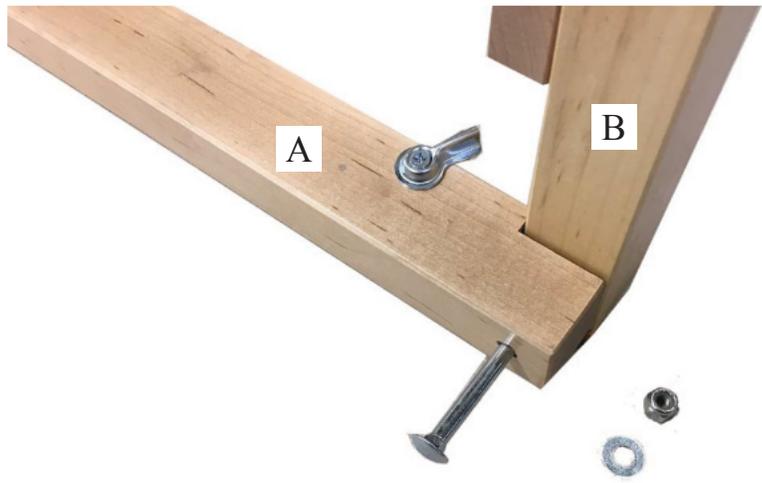
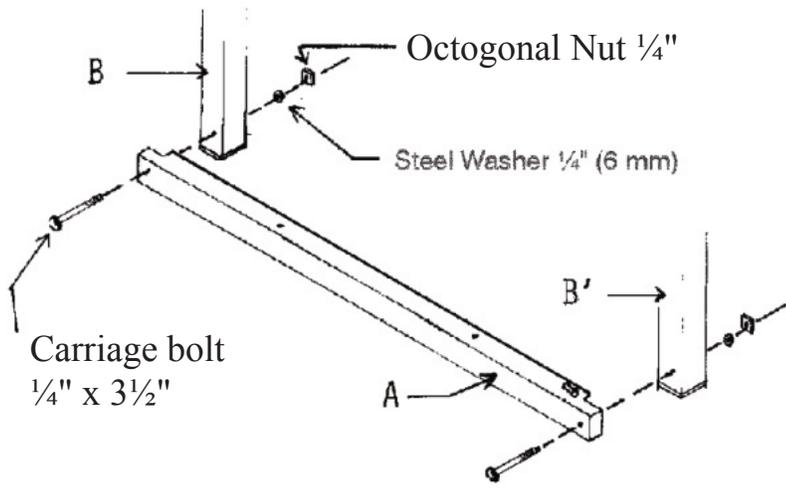


Place right-hand side A straight up beside the wall.



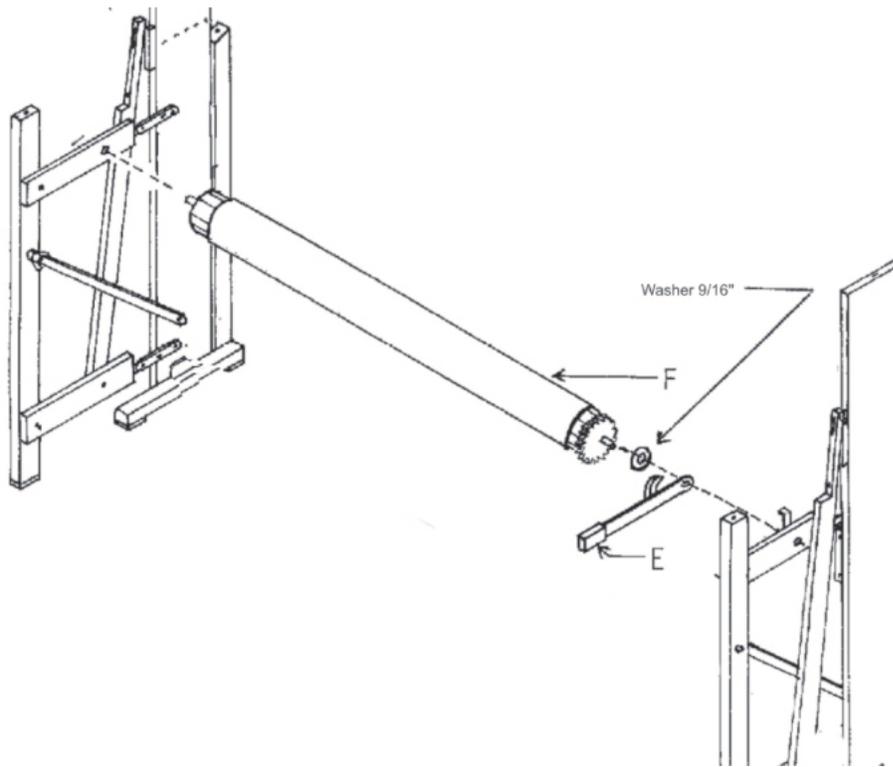
Unfold the front section of left-hand side A. Using a 1/4" x 1 3/4" (6mm x 45mm) carriage bolt and a 1/4" (6mm) wing nut, affix metal hook C to left-hand side front post D.

Using a 1/4" x 1 3/4" (6mm x 45mm) carriage bolt and a 1/4" (6mm) wing nut, affix metal hook C' to right-hand side front post D'.



Using two 1/4" x 3 1/2" (6 mm x 89mm) carriage bolts, two 1/4" (6mm) steel washer and two octagonal autlock nuts 1/4", attach the front cross-member A to front posts B right and left.





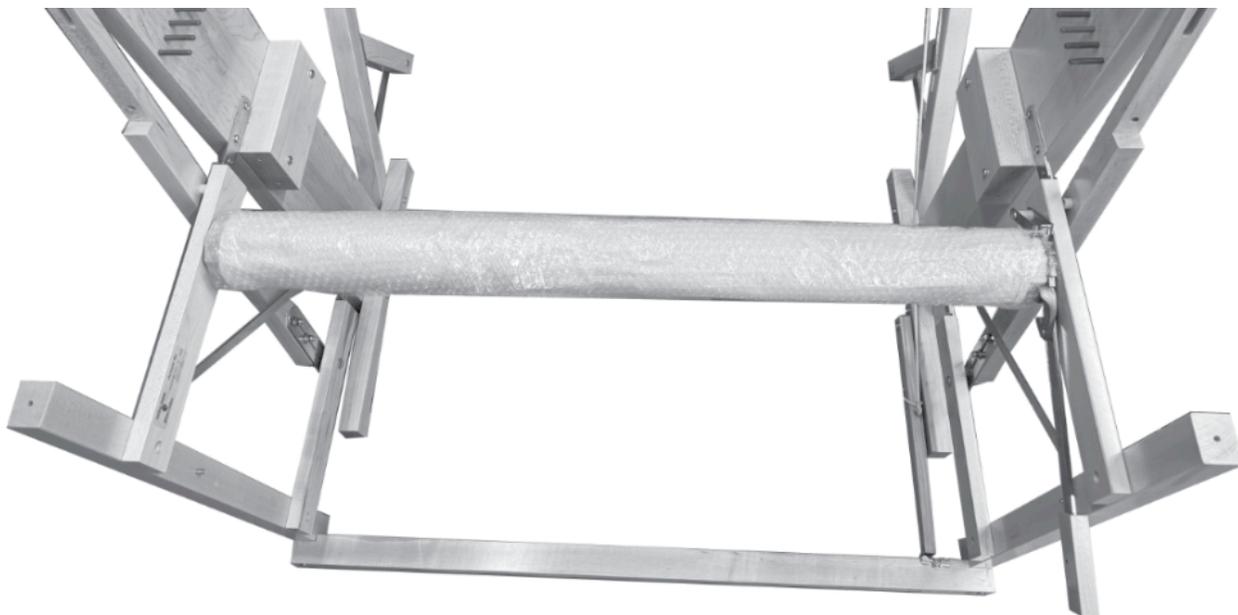
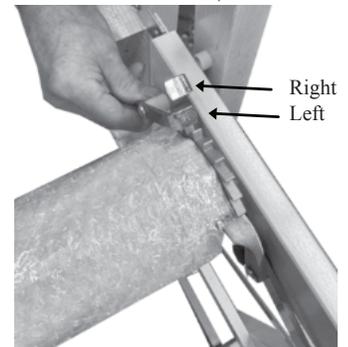
The double ratchet pawl affixed to the side Loom must be lifted up while inserting the front beam.



Place the take-up motion handle E, with a 9/16" steel washer, on the right-hand side end of cloth beam F.

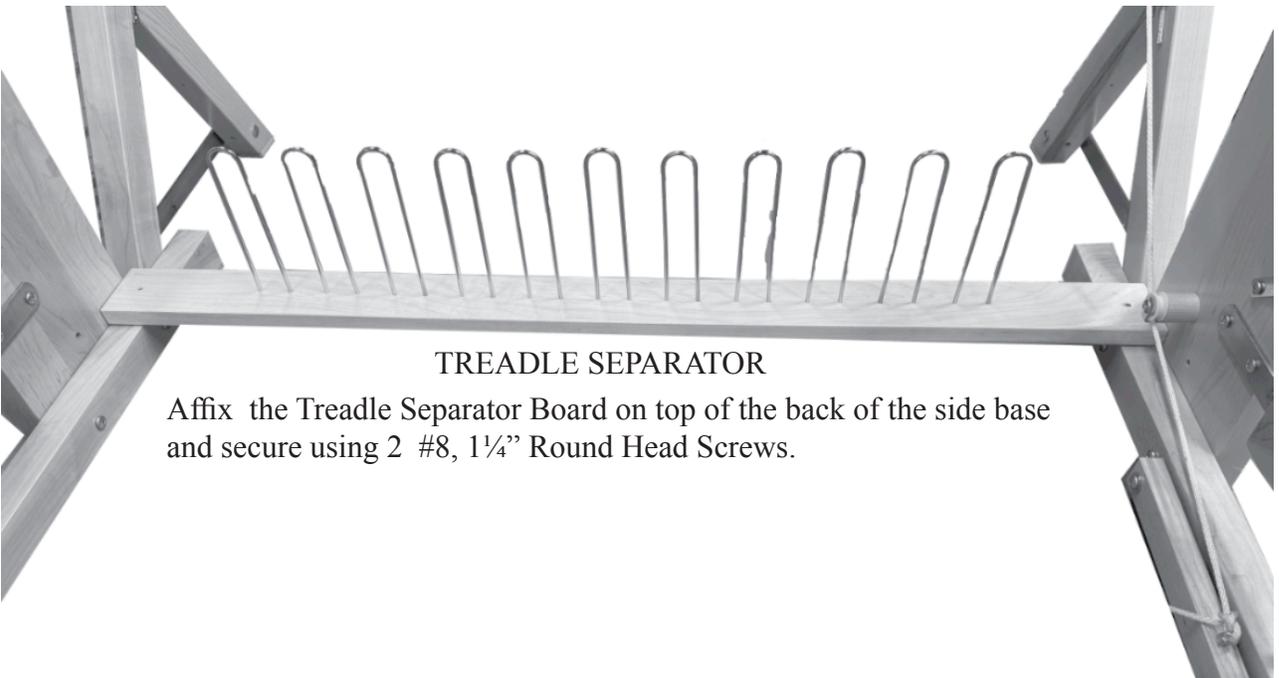
Note: The ratchet gear is on the right-hand side beam end. The ratchet pawl affixed to the take-up motion handle must be lifted up. The double back pawl have also to be lifted up.

Insert the end of cloth beam F into the holes in upper front cross-members.



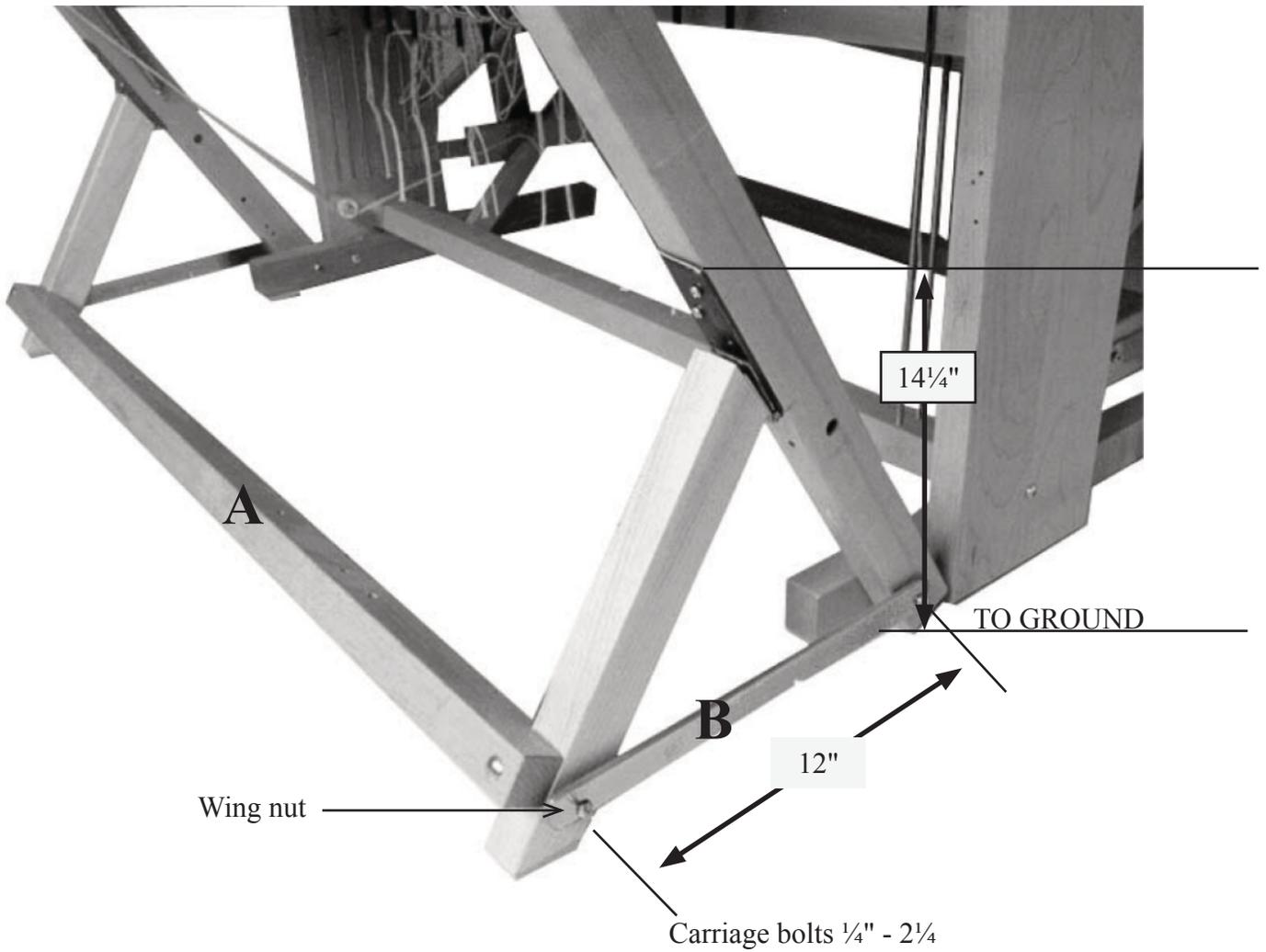


Unfold the back beam and secure it with the upper metal hooks using the second last notch.



#### TREADLE SEPARATOR

Affix the Treadle Separator Board on top of the back of the side base and secure using 2 #8, 1¼" Round Head Screws.



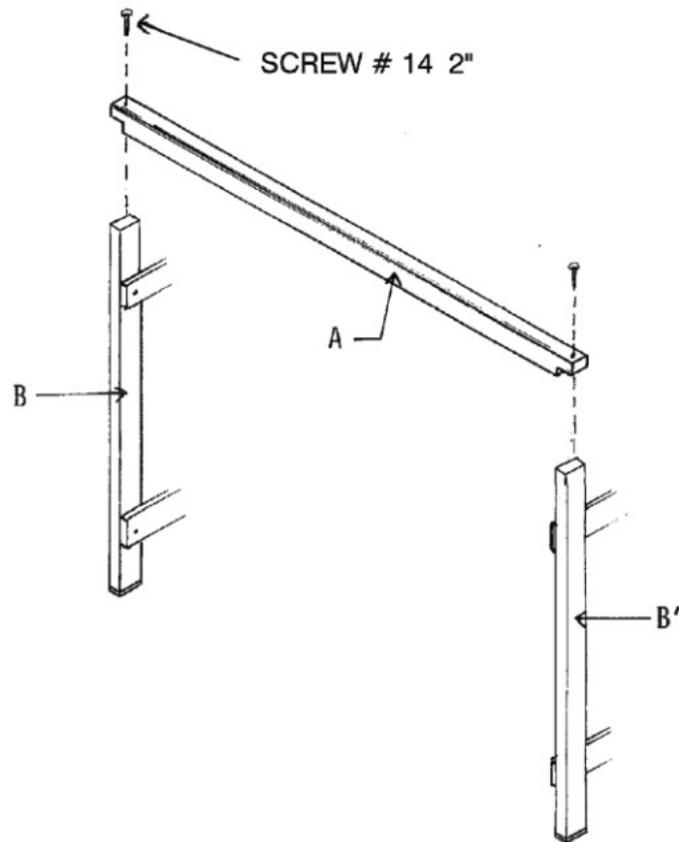
### ATTACHING THE STABILIZING ASSEMBLY TO THE LOOM

Install the rear Stabilizing assembly (A) to the Warp Beam Posts using 6 Round Head Screws #8 - 1"

Anchor the hook (B) to the stabilizing post of the loom using 2 carriage bolts  $\frac{1}{4}$ " -  $2\frac{1}{4}$ " and 2 wing nuts  $\frac{1}{4}$ " (the wings nuts go on the outside of the loom)

Using two 2" (50 mm) round-headed screws no. 14, affix one of the two breast beams to the top of the front posts B and B`

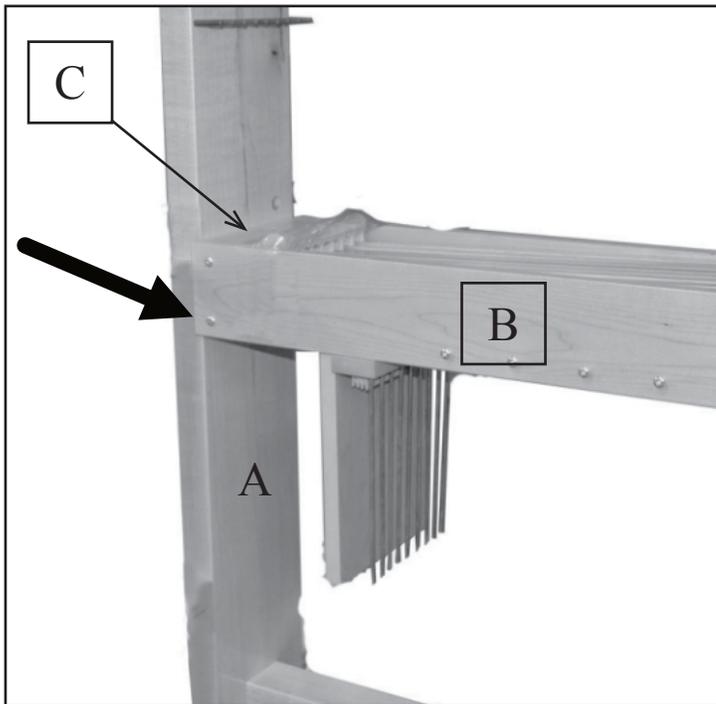
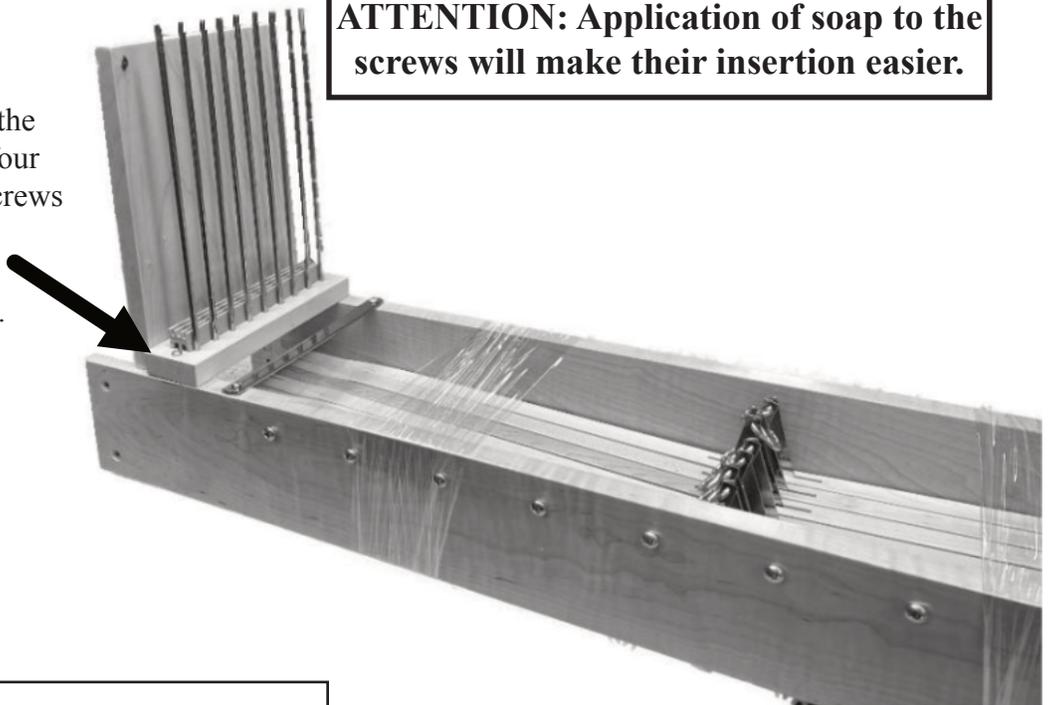
The rounded edge must be towards the outside of the loom.



**ATTENTION: Application of soap to the screws will make their insertion easier.**

Affix the 2 lams separators to the bottom of the jack box using four 1½" (40 mm) round-headed screws no. 8.

Do not remove the saran wrap.



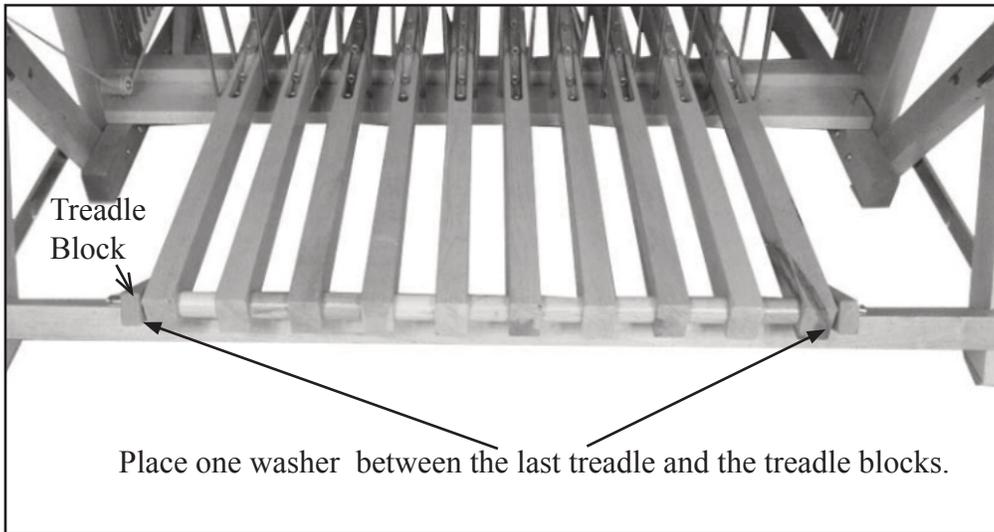
Slide jack box B along the middle posts (A), from bottom to top, and affix it to blocks (C) using 8 X 1½" round-headed screws no. 12.

Note: It does not matter which way the jack box is positioned as the front and the back are the same. However, the 10 screws on each of the faces must be positioned at the bottom.



After the Jack box is installed, remove the two screws at the back right corner of the jack box, install the metal protection plate and reinstall the screws to hold it in place. This plate protects the wood from damage by the brake lever when the back beam of the loom is folded in.

## TREADLE SET ASSEMBLY



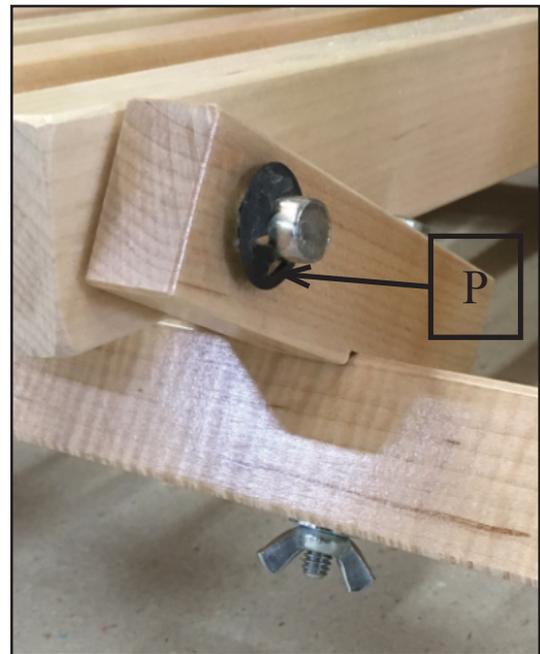
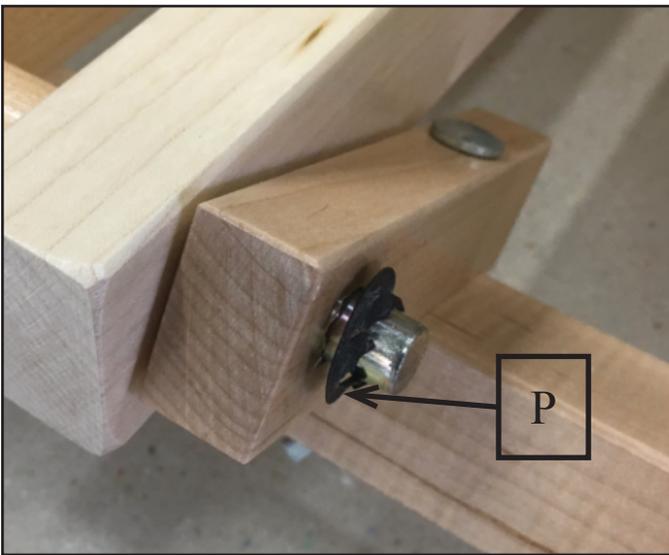
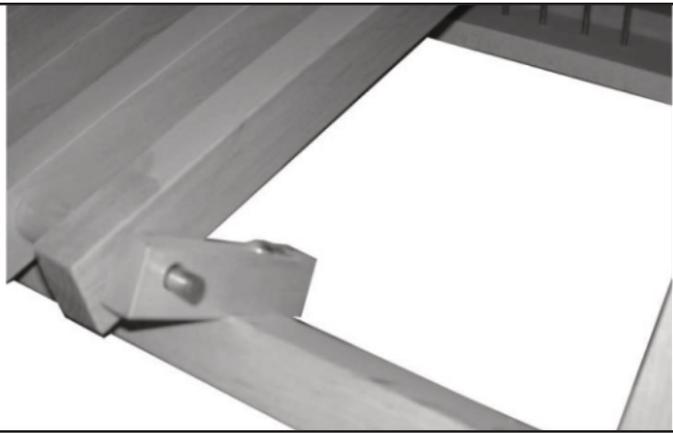
Assemble the treadle set (in or out of the loom) as shown in picture using:

- 1 treadle rod 27<sup>3</sup>/<sub>4</sub>"
- 10 treadles
- 9 wood spacers
- 2 treadle blocks
- 2 x 9/16" washers
- 2 X push nuts 7/16" (one is already on the rod)

Place one washer between the last treadle and the treadle blocks.

Affix treadle set to the treadle cross-member using:

- 2 carriage bolts 1/4" x 3"
- 2 washers 1/4" (under cross member)
- 2 Wing nuts 1/4"

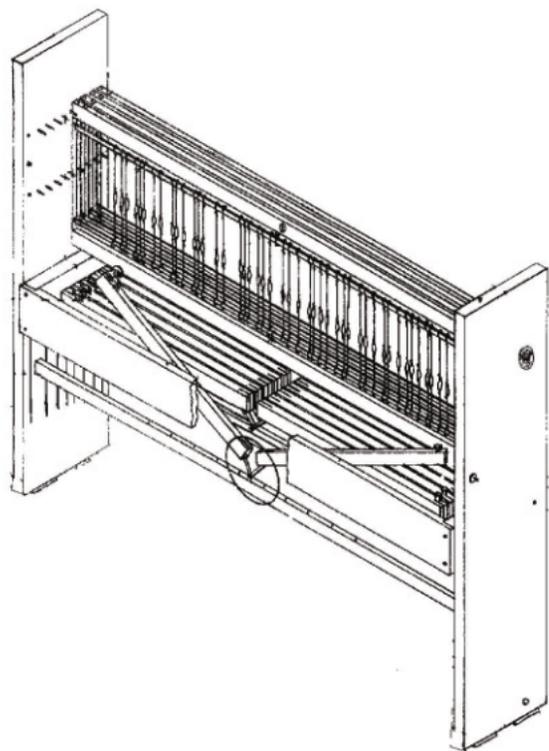
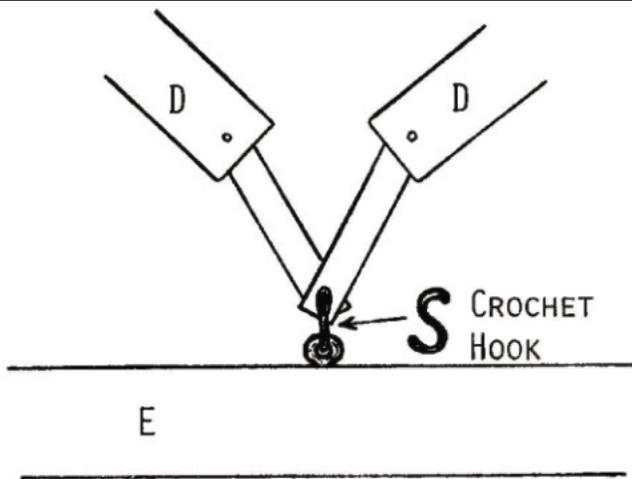
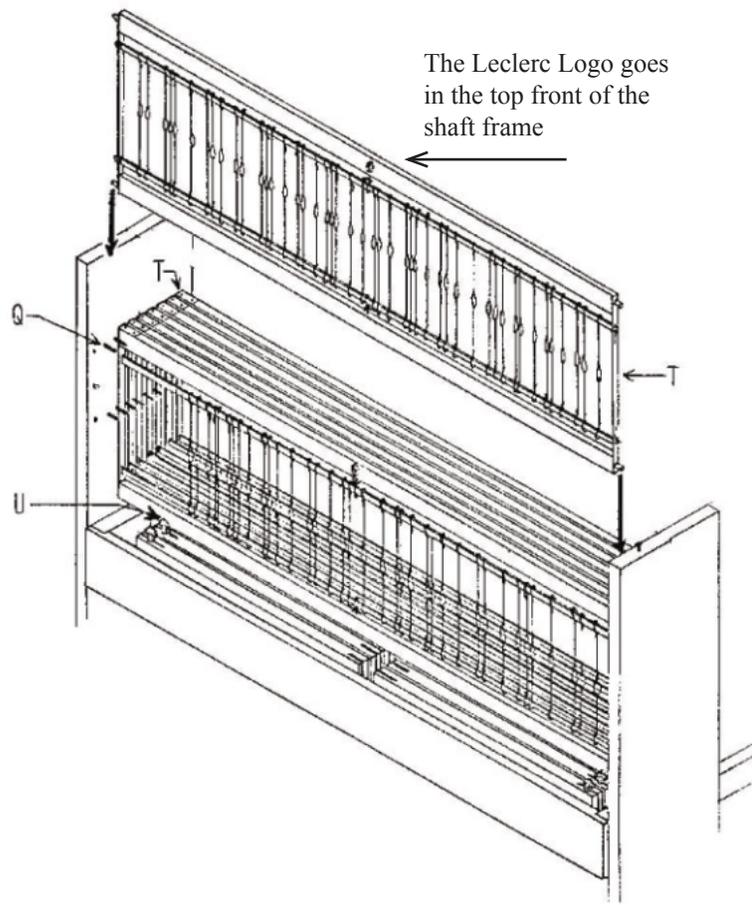


Install the heddles in the shaft frames. (see “WARP AND WEAVE” on page 10)

Remove the saran wrap on the jack box.

Slide shaft frames T between dividers Q.  
The shaft frames must rest on the plastic supports U of the jacks

NOTE: Some shafts may be tight between the castle frame until the castle top is attached.



Join the “S” hook of the jacks D to the eyelet of the FLOATING lam E.

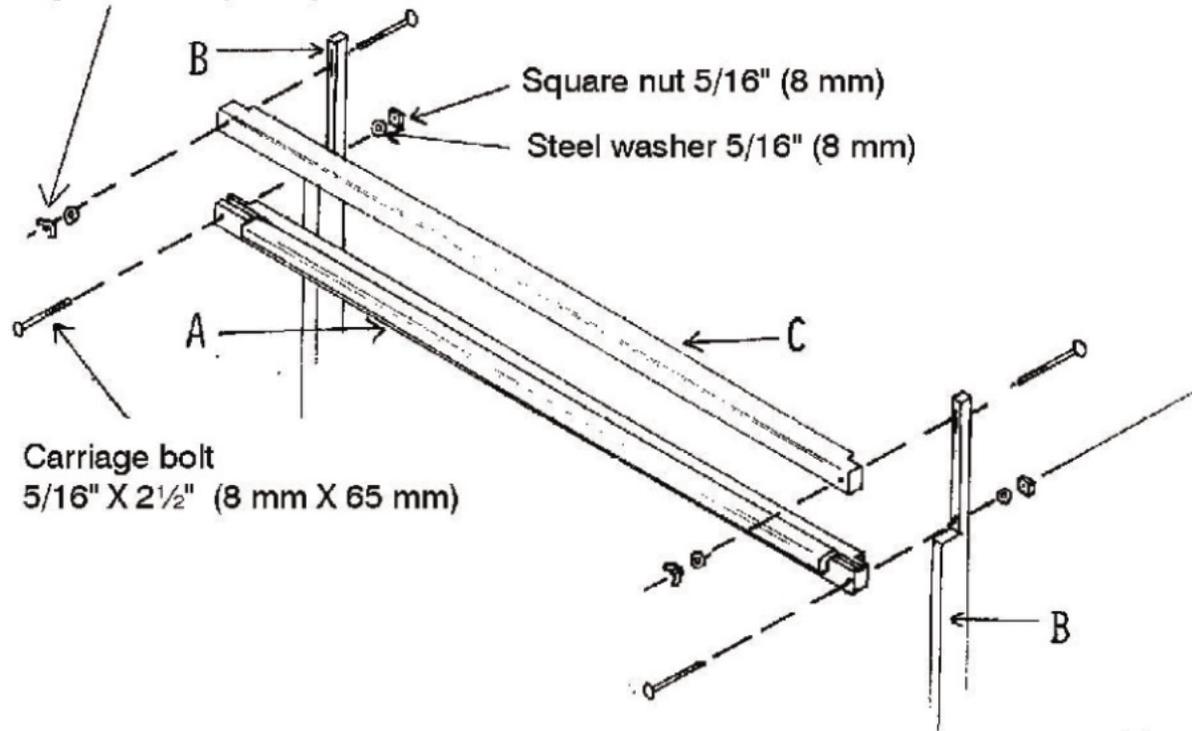
### **Castle cover**

Complete the assembly with securing the Castle cover with 4 #12 1½" flat screws.

**IMPORTANT:**  
Make sure to screw into the pre-drilled holes of the castle.



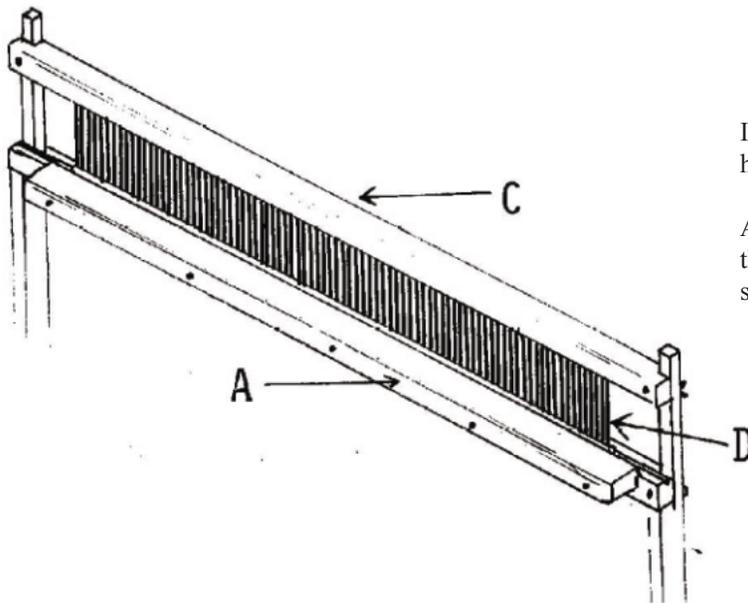
Wing nut 5/16" (8 mm)



Install the treadle cords with the treadle hooks.

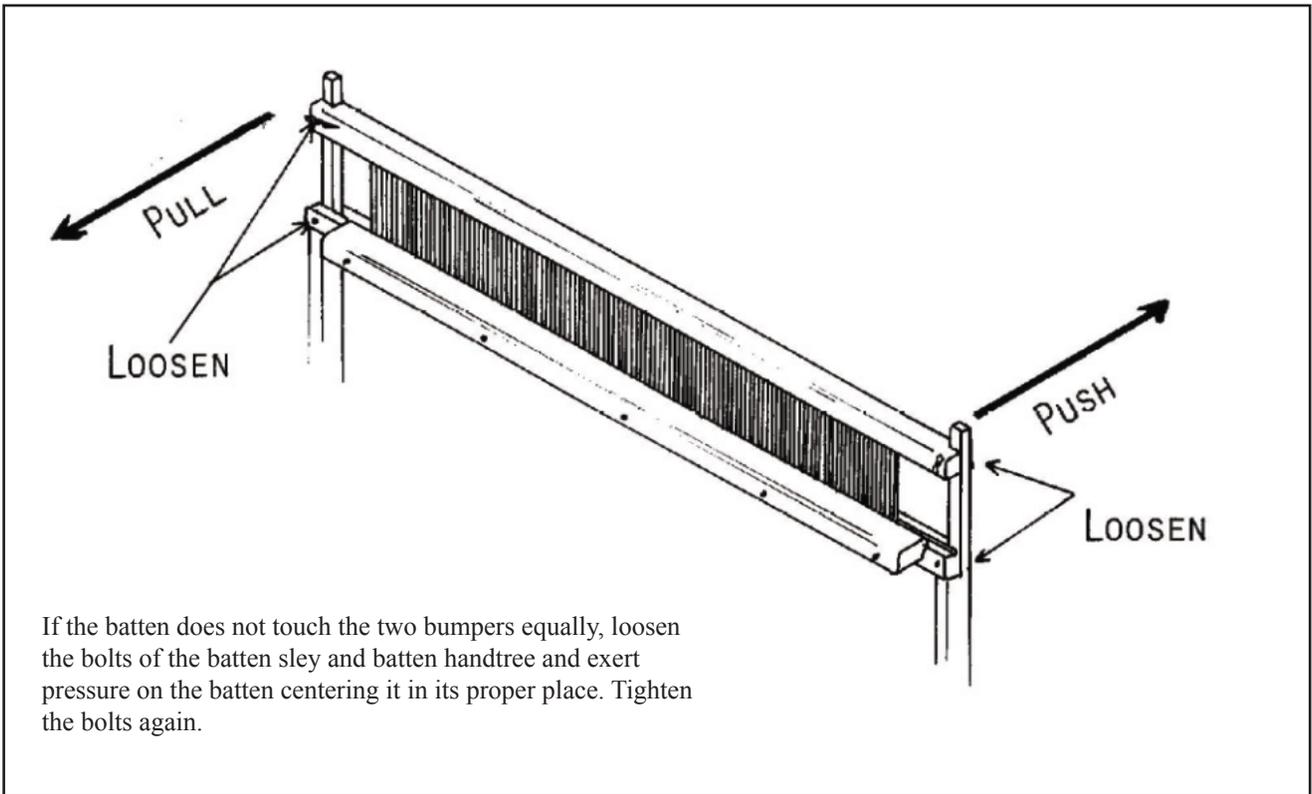
Using the carriage bolts, steel washers and square nuts, attach the batten sley A (with shuttle race) to the batten swords B.

Then affix the batten handtree C to the batten swords B.

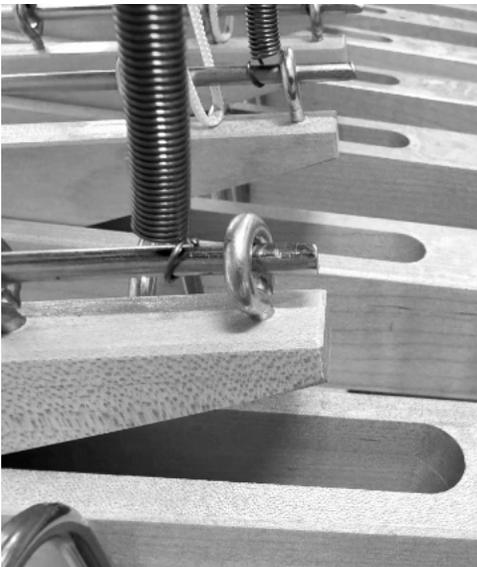


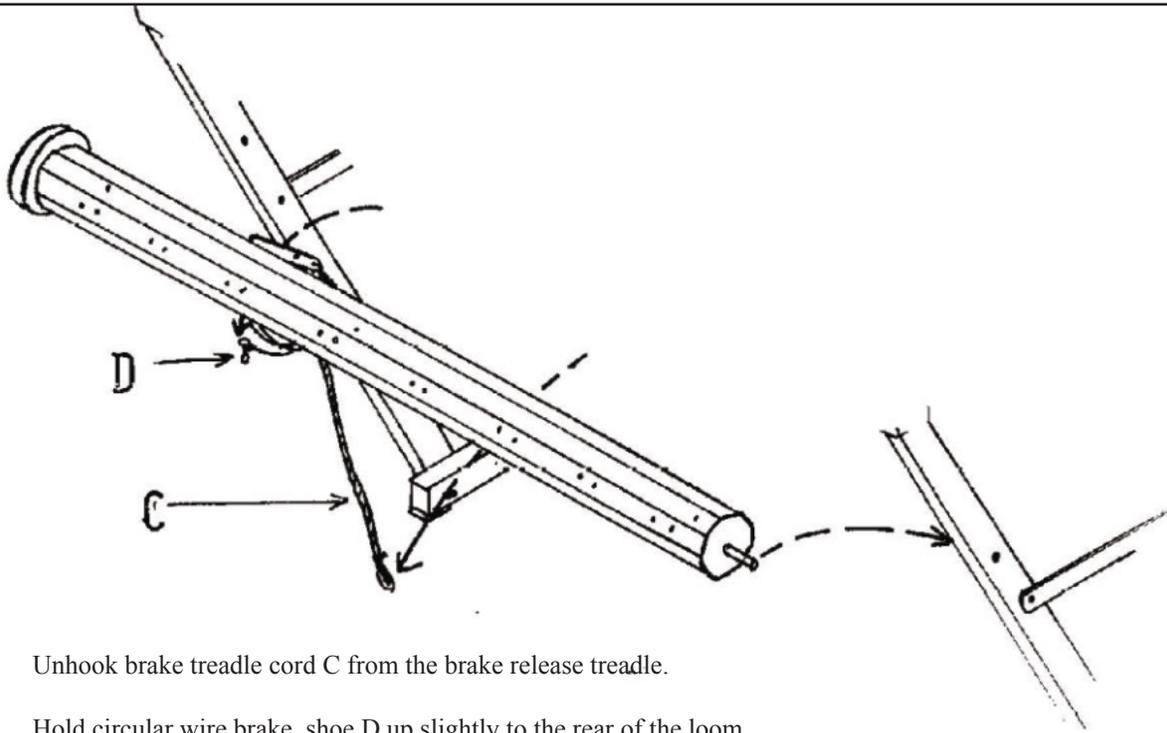
Install reed D in the slots of batten handtree C and batten sley A.

Adjust batten handtree C by sliding the bolts in the slots of the batten swords to firmly hold the reed.



You can install now or just before weaving the treadles springs. After the installation, the treadles will be all at the same height.

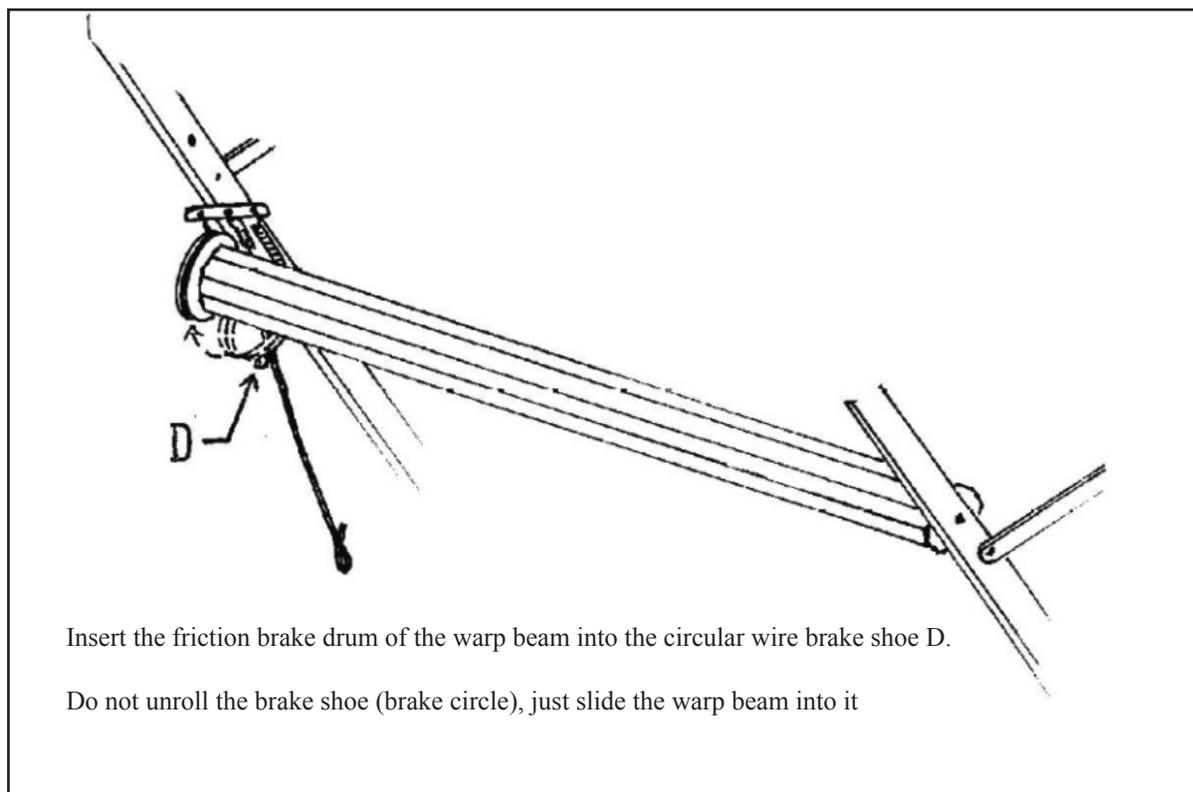




Unhook brake treadle cord C from the brake release treadle.

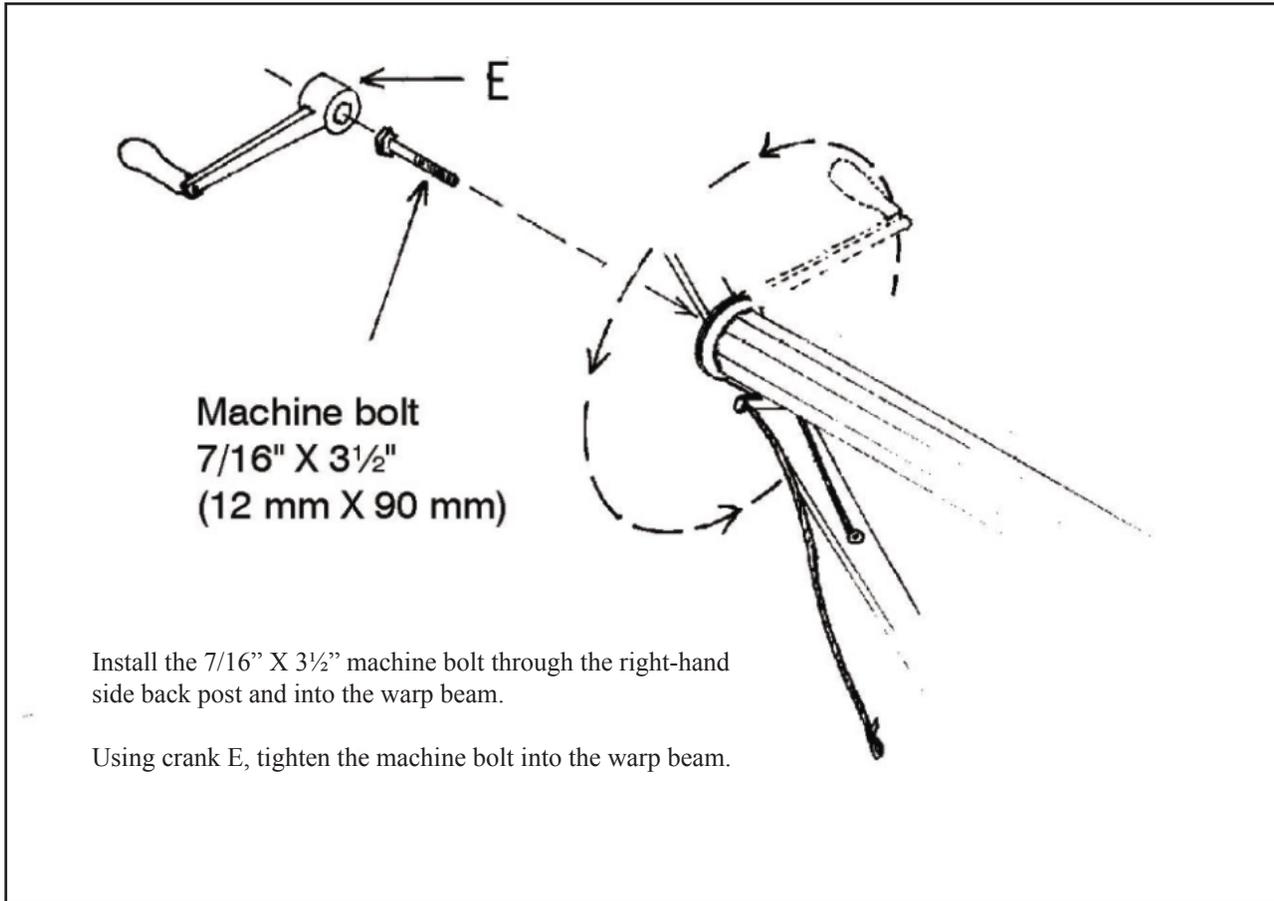
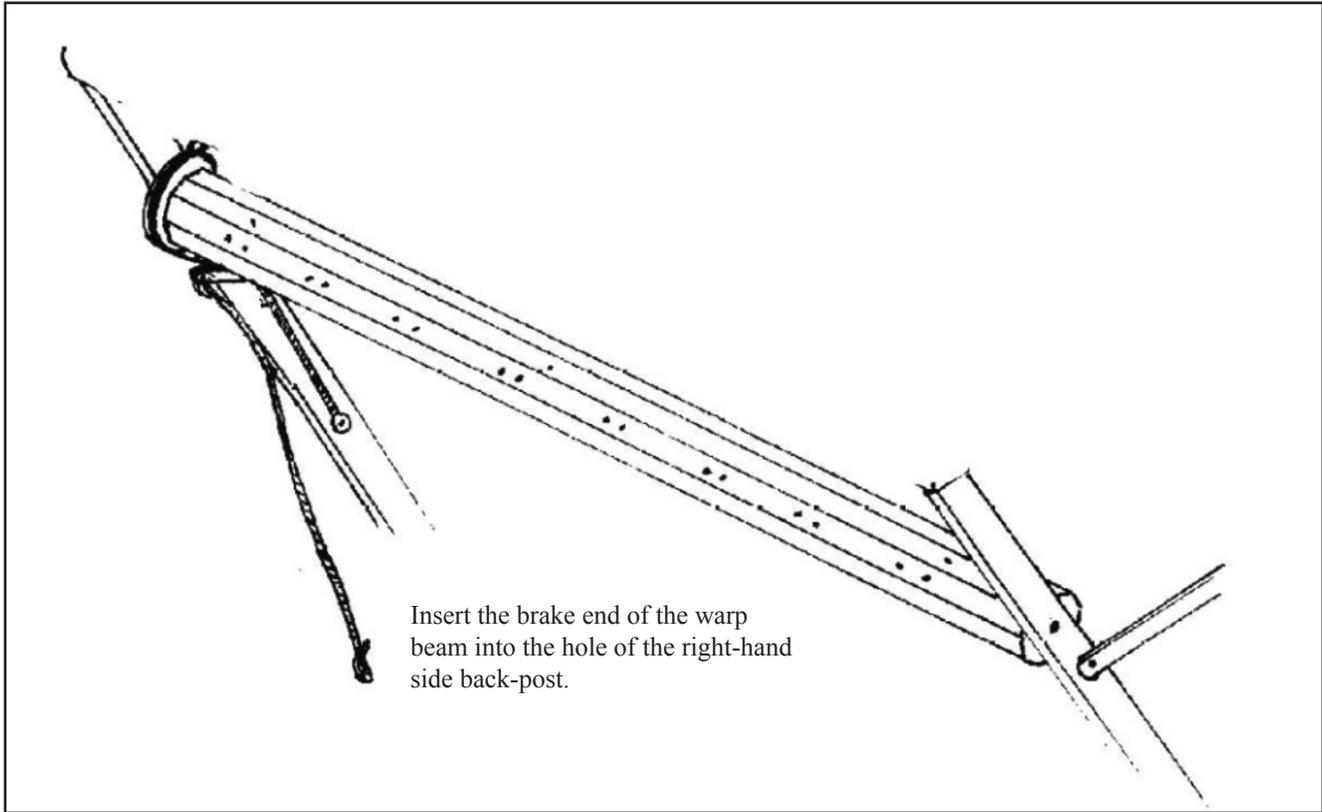
Hold circular wire brake shoe D up slightly to the rear of the loom.

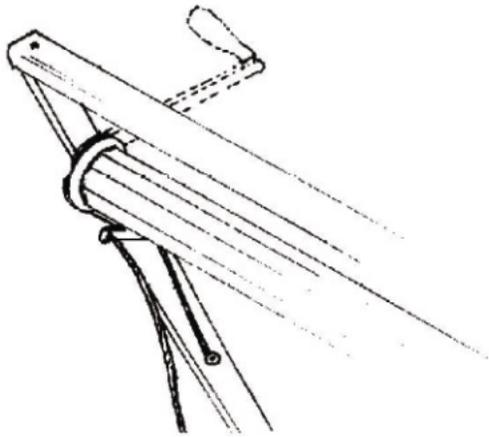
Insert one end of the warp beam (which has only a metal post) into the left-hand side back post.



Insert the friction brake drum of the warp beam into the circular wire brake shoe D.

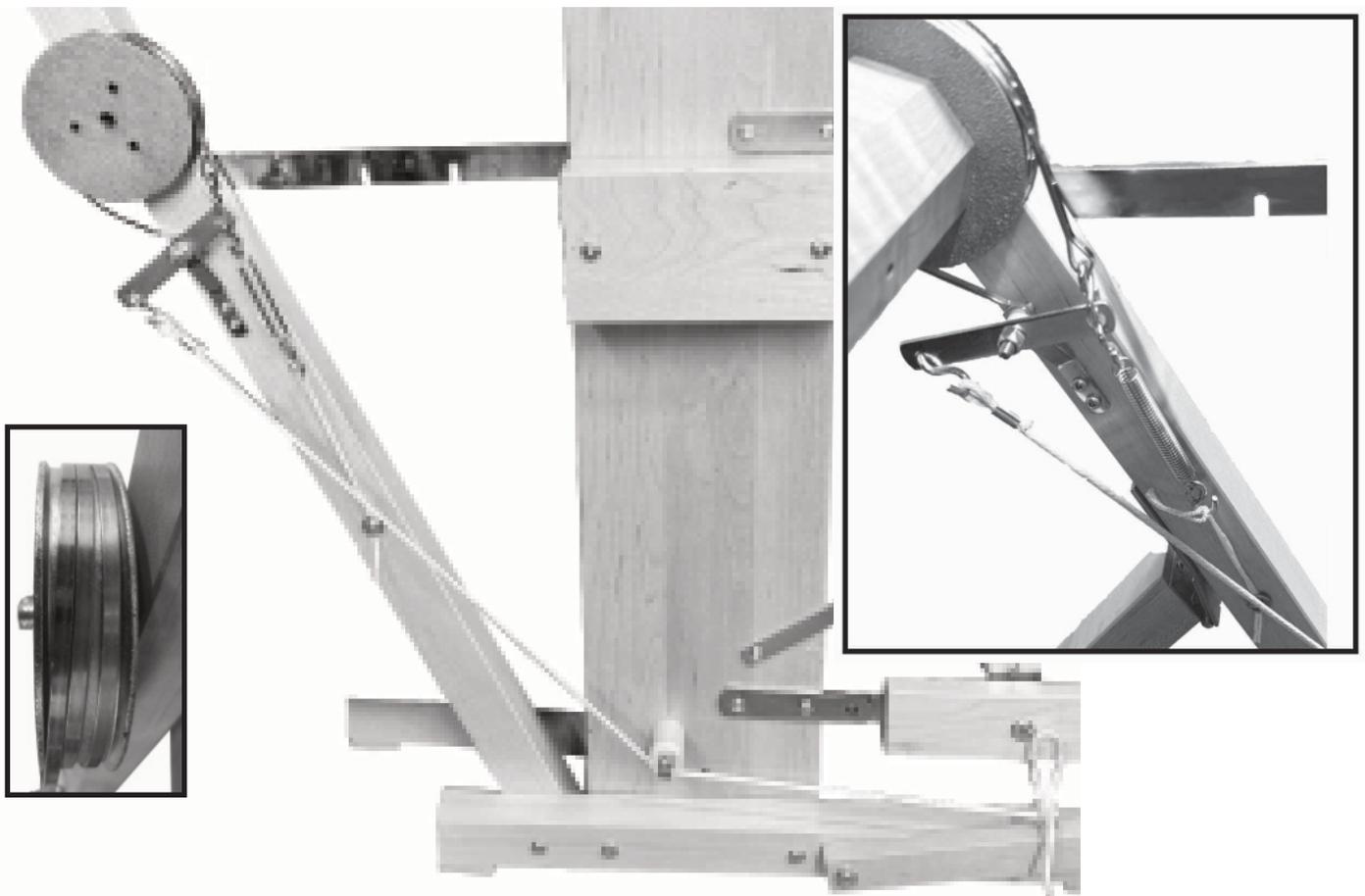
Do not unroll the brake shoe (brake circle), just slide the warp beam into it





Using two 2" round-headed screws no 14, affix the breast back beam to the back posts.

See this short video: <https://vimeo.com/893876735/bb309f2392>



Join the front "S" hook of the brake lever to the brake loop cord so the tension on the spring will be high enough to lock the warp beam while weaving.

The warp beam should turn with some friction clockwise (while standing at the right side of the loom near the brake system) and this is the warping rotation. However, you should always release the tension on the friction brake system by disconnecting the spring from the loop cord (S hook) when you are warping the loom.

To advance the fabric when weaving, depress the brake treadle just enough to release the warp beam. Depressing the brake treadle too far may cause the brake cable to come off the brake drum.

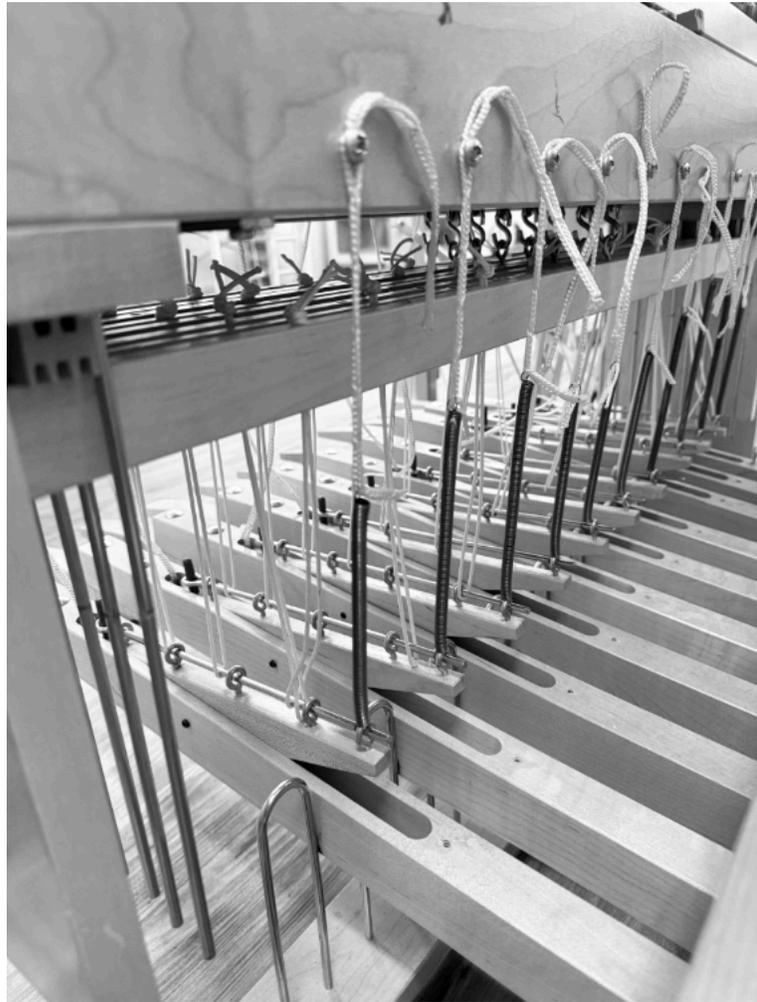
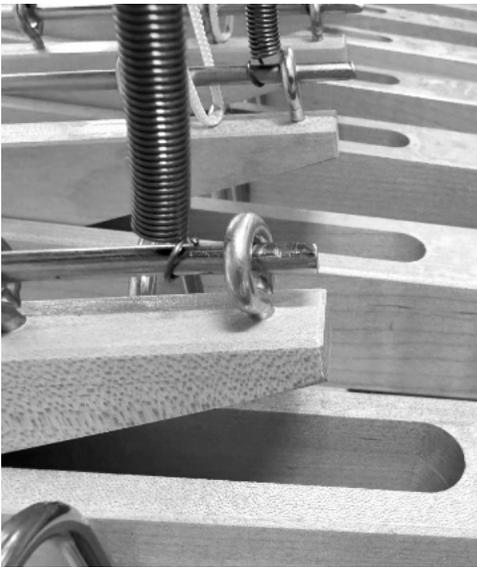
Join the brake treadle to the S Hook in the back of the Brake Lever. Adjust the length so the brake treadle is at the comfortable height. Make a double knot at the brake treadle eye.

You can install now or just before weaving the treadles springs.

Those springs are there only to support the weight of the treadles itself.

Little tension is necessary.

With all tie-up cords and the springs, the treadles will all be at the same height.



## FIRST TREADLE TIE-UP

Select any treadle and tie the Lams to the Treadles using the 7½" cords supplied with the loom. Use the threading hook to help pass the cord through each hole of the lam.

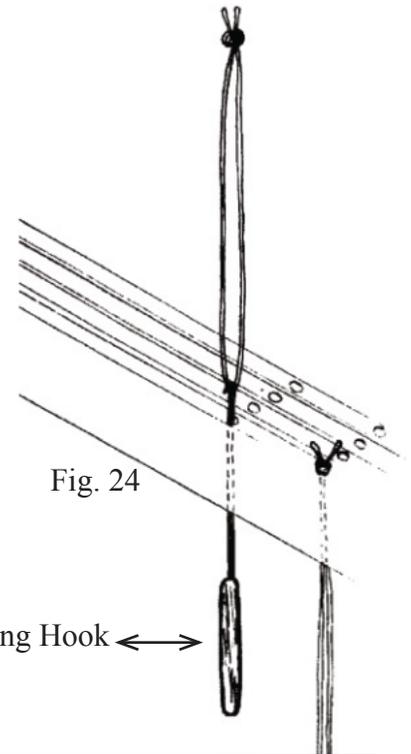


Fig. 24

Threading Hook ↔

## TREADLE HOOK AND ROCKER LOOP CORD

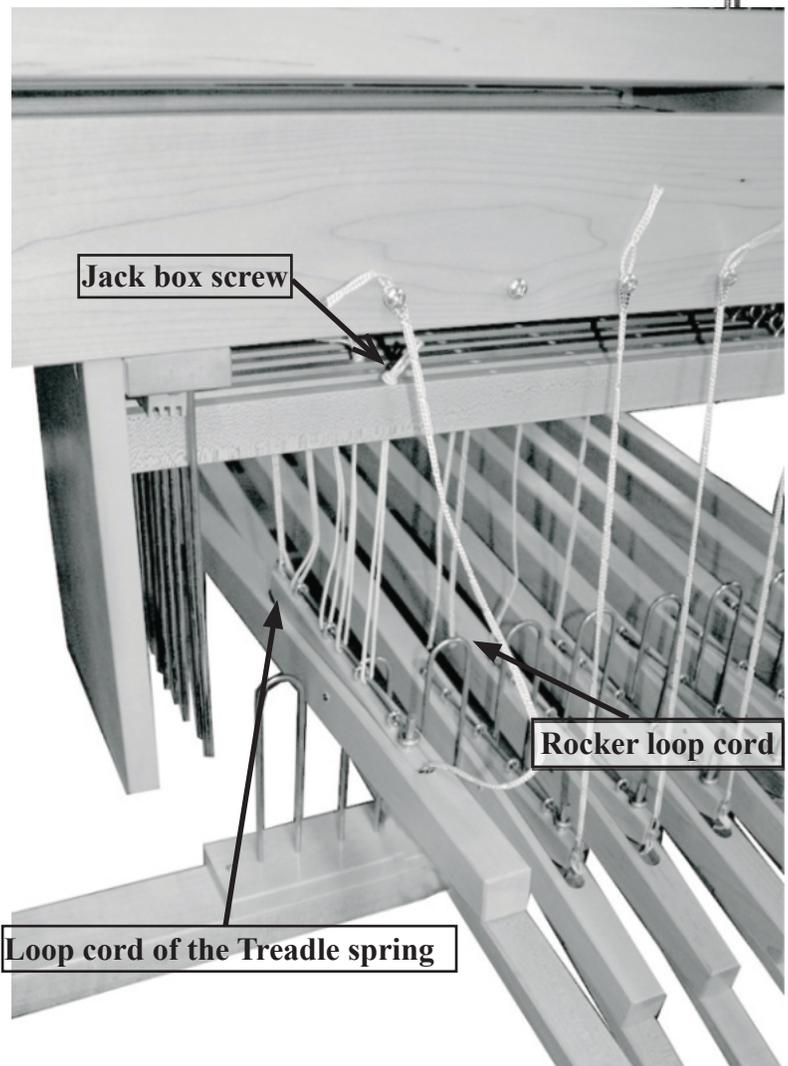
Slide the Treadle Hook through the Screw Eyes and the treadle Cord Loops. Before the last Screw Eye, insert the Hook through the Treadle Spring loop cord and secure with the peg in the front.

In the Treadle rest position (up) there should be no or very little tension on the Spring.

However, slack on the spring cords is not desirable.

When all treadles are tied up, they should be at almost the same height. The top front part of each treadle should be app. at 8¾" to the floor.

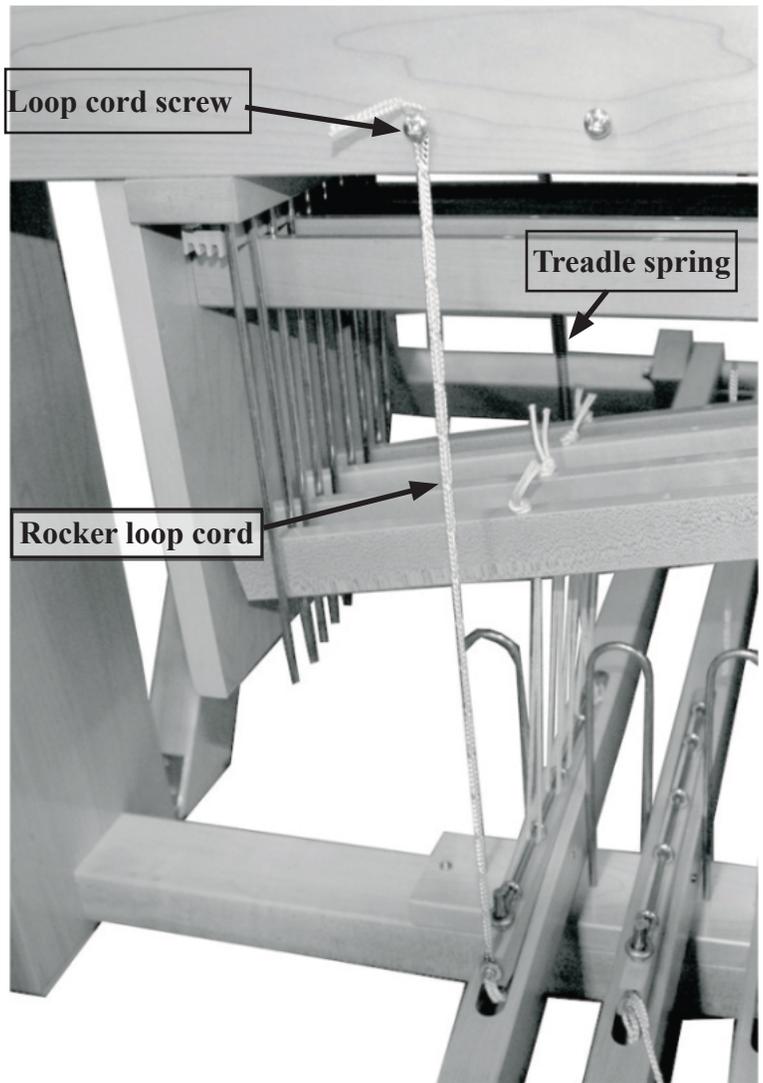
Install the Treadle Rocker Loop Cord on the Jack box screw at the black mark as a starting point.



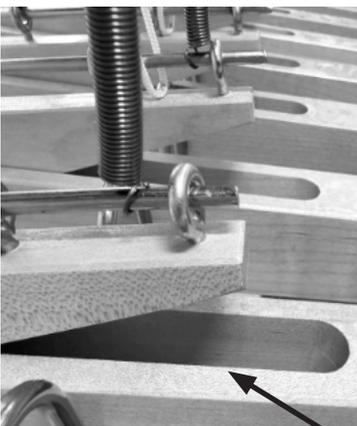
**FIRST SHED**

When you depress the treadle, the rocker loop cord raises the front of the rocker setting the shafts at the correct Level.

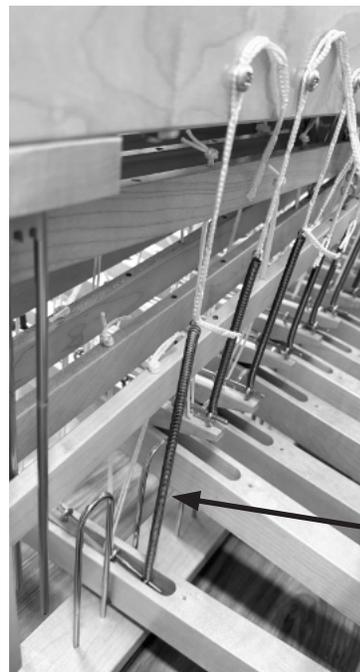
See next page for more info on adjusting the length of each rocker loop cord.



**VIEW FROM THE BACK OF THE LOOM SHOWING THE TREADLE AT REST POSITION AND DEPRESSED.**



Spring treadle up



Spring under tension when the treadle is down

## ADJUSTING THE SHED (Length of the Rocker Loop cord)

The key to a wide clean shed is the proper adjustment of the Rocker Loop Cord. Once you have completed the hookup of the Cords and Springs, start at one end of the Treadle Set and depress each Treadle one at a time noting the position of the bottom Shed. Adjust each Shed by shortening or lengthening the Loop Cord. When properly adjusted, the bottom Shed of each Treadle should just kiss the Race Plate and the top Shed should be uniform across the width of the Loom. (see diagrams for examples)

Picture #32 shows an uneven Shed caused by Rocker Loop Cords being out of adjustment.

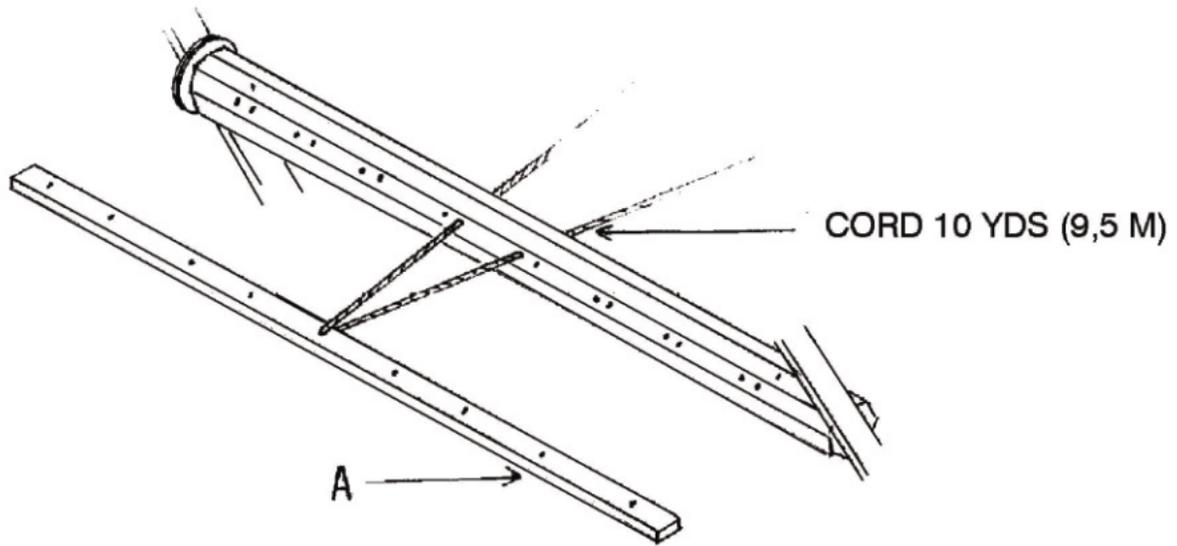
Picture #33 shows properly adjusted Rocker Loop Cords with the bottom Shed just kissing the Race Plate and the Top Shed uniformly even across the width.

It is very important to maintain a reasonable amount of tension on the Warp when making adjustments and while weaving in order to keep a wide, clean Shed.

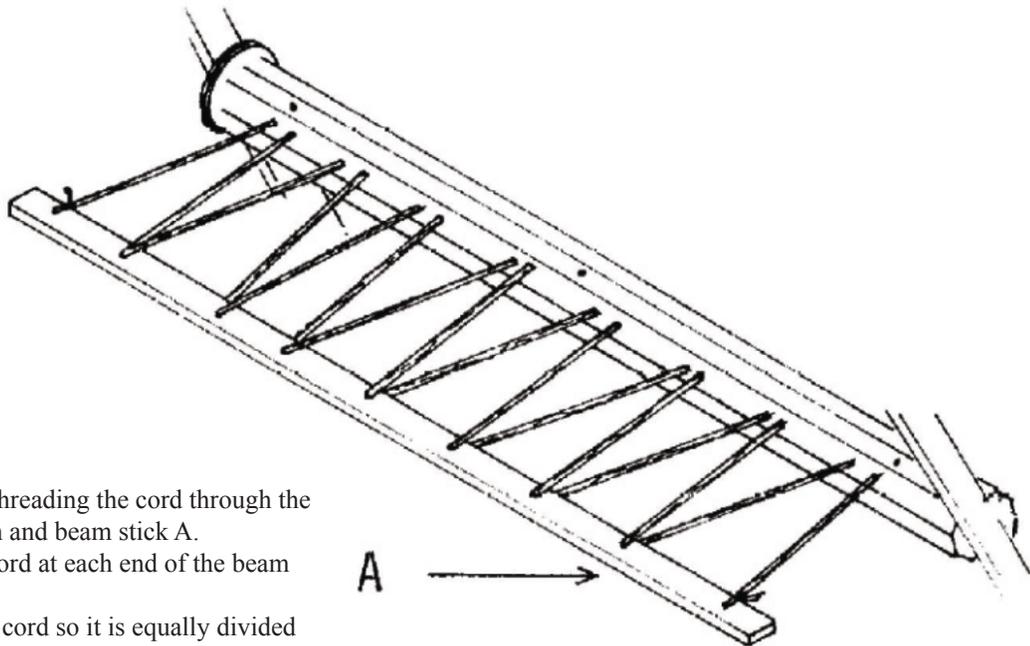
The design of the system provides a greater lifting force on the Shafts with considerably less leg pressure required to depress the Treadles. With a few Picks on each new project, the Weaver will find the correct Warp tension required to produce the desired PPI (Picks per Inch) in the Cloth, while maintaining a wide, clean Shed.



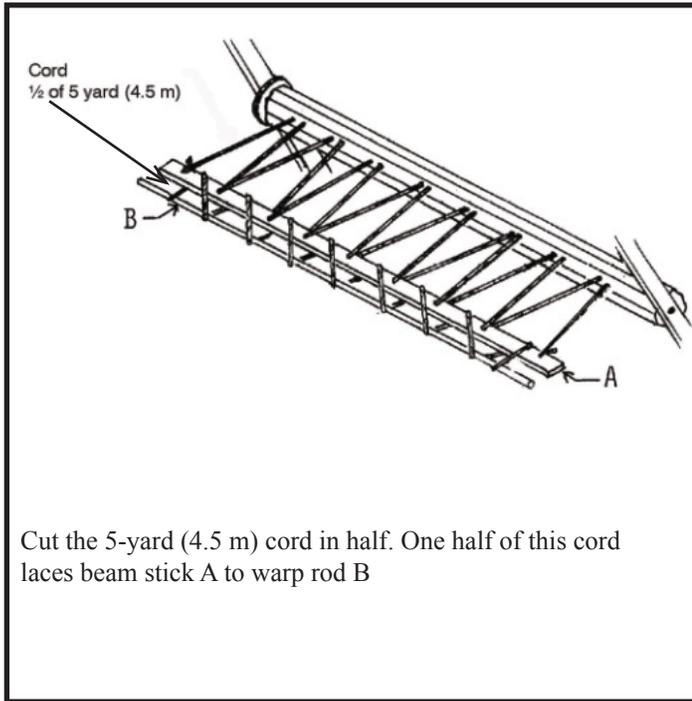
## BEAMING



Thread the 10 yard (9 m) cord through the middle hole of beam stick A. Then pass the two ends (equal in length) of this cord through the middle holes of the warp beam.

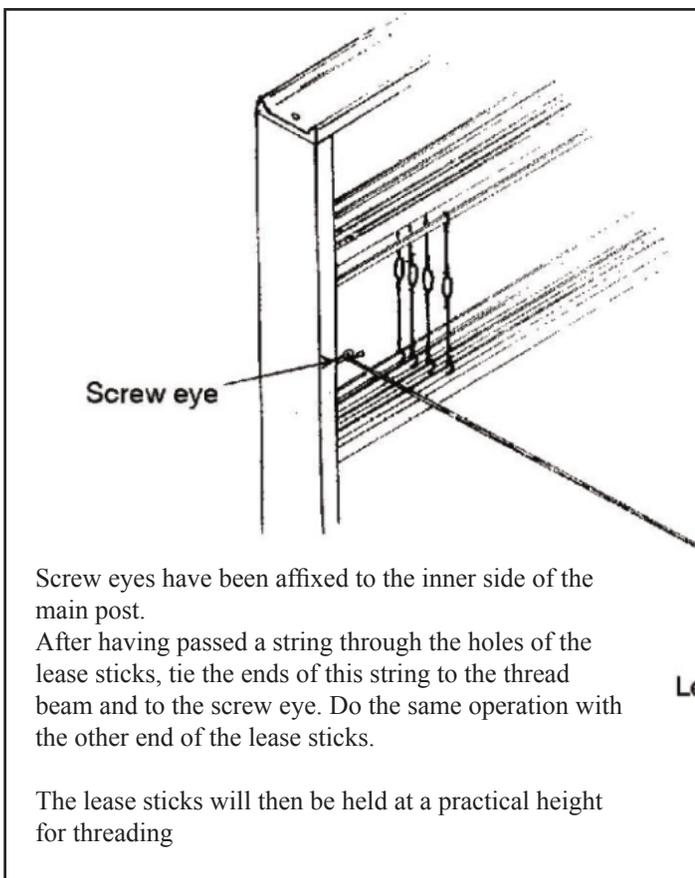


Continue threading the cord through the warp beam and beam stick A. Knot the cord at each end of the beam stick. Adjust the cord so it is equally divided and keeps the beam stick straight. This will reduce warp wastage.



**Warp beam  
advance  
control  
system**

This system will eliminate excessive warp yarn advance when releasing the brake system. This friction system is adjustable and have to be released when winding the warp on. Just screw the wing nut with nylon bolt to the left back post. Screw in to increase the friction or unscrew it to release.



**We at Leclerc encourage Weaver feedback on this and all our products. Please send your comments to Leclerc Loom Co. [info@leclerclooms.com](mailto:info@leclerclooms.com)**

**HAPPY WEAVING**

