

# ARTISAT 36" JACK-TYPE 8 SHAFTS BACK HINGE TREADLES 1009-3628



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 #7 of the assembly instructions. Report any discrepancies to Leclerc immediately.

To assemble this loom, a minimum of 2 are needed but 3 persons are favorable.



## Leclerc Looms

Since 1876

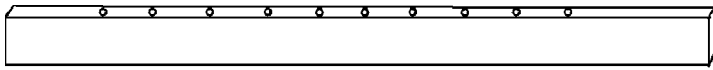


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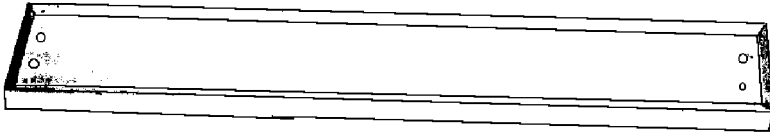
Dec. 02 1999  
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# PARTS LIST (8s)

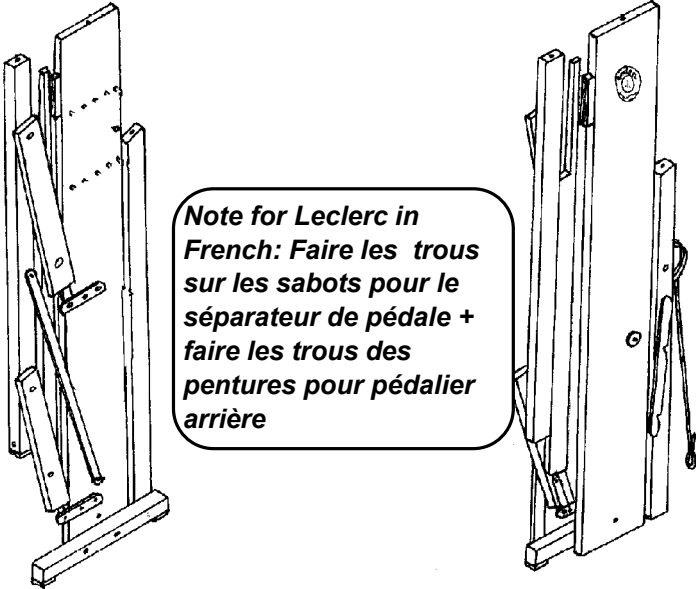


8 FLOATION LAMS

*Note for Leclerc in French:  
Contremarches NU11 39<sup>3</sup>/<sub>4</sub>"*



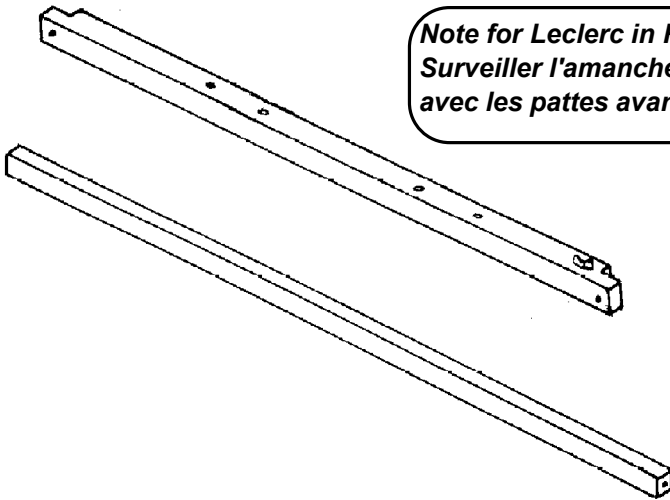
1 CASTLE TOP COVER



*Note for Leclerc in French: Faire les trous sur les sabots pour le séparateur de pédale + faire les trous des pentures pour pédalier arrière*

1 LEFT-HAND SIDE

1 RIGHT-HAND SIDE



*Note for Leclerc in French: Surveiller l'amanchement avec les pattes avant.*

1 FRONT CROSS-MEMBER

1 MIDDLE LOWER CROSS-MEMBER



1 TREADLE ROD 28 7/16" with one push nut



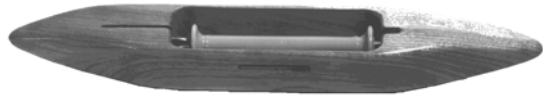
1 MORE PUSH NUT 7/16"



# PARTS LIST (8s)



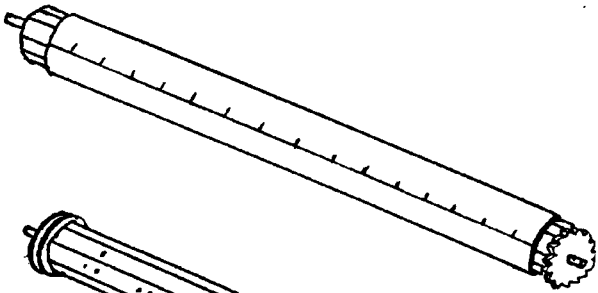
1 PK. 10 YDS FOR BEAM STICK  
1 PK 5 YDS FOR BEAMING AND LEASE STICK



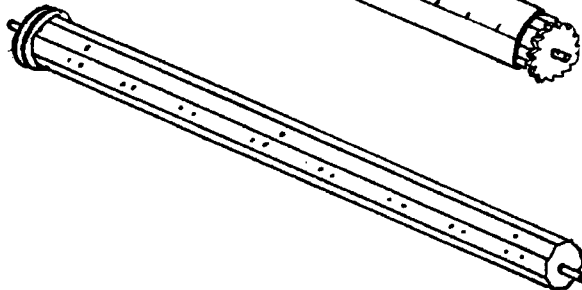
1 SHUTTLE



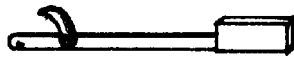
1 DOZ BOBINES 4"



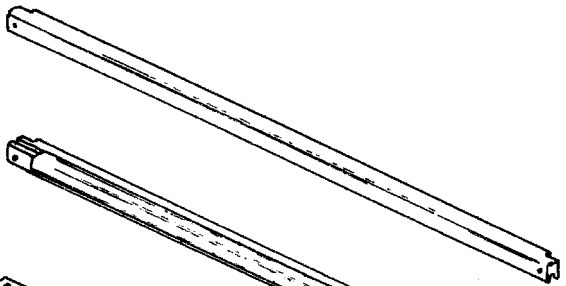
1 LOTH BEAM WITH RATCHET WHEEL



1 WARP BEAM WITH BRAKE DRUM



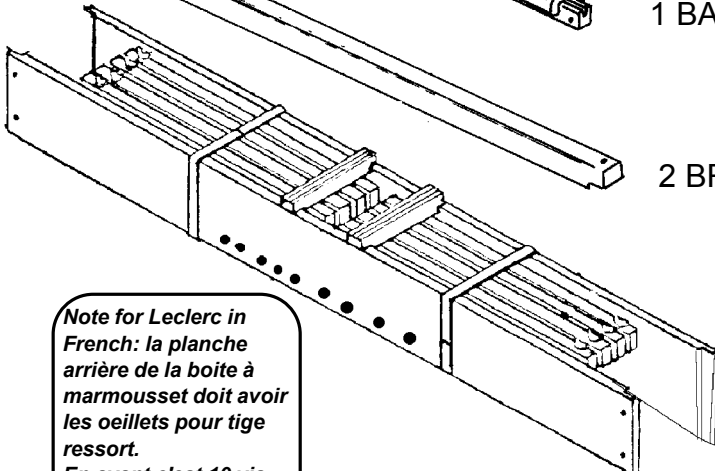
1 TAKE-UP MOTION HANDLE



1 BATTEN HANDTREE



1 BATTEN SLEY WITH SHUTTLE RACE

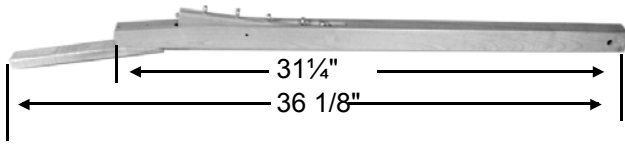


2 BREAST BEAMS

*Note for Leclerc in French: la planche arrière de la boîte à marmouset doit avoir les oeilletons pour tige ressort.  
En avant c'est 10 vis #12 x 3/4"*

1 JACK BOX (DO NOT REMOVE THE TAPE UNTILL IT IS INSTALL IN THE LOOM)

# PARTS LIST

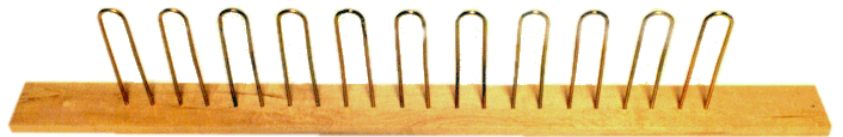


10 treadles with rocker piece



1 stabilizing post cross member assemble  
with 2 stabilizing back posts and metal hook

1 Treadle Separator 40" long

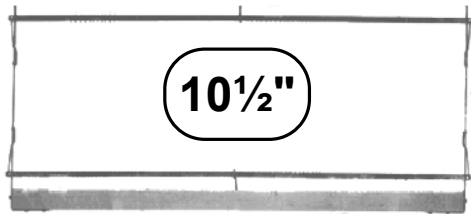


10 Treadle springs with Loop cord 6" (9 1/2" with spring)

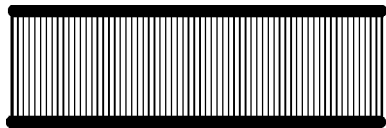


1 Treadle springs rod 39"

## PARTS LIST (8s)



8 SHAFT (harness) FRAMES



1 REED



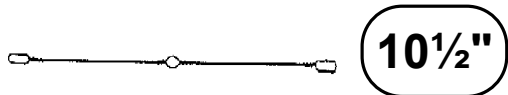
2 LEASE STICKS



1 BEAM STICKS



3 WARP RODS



1000 HEDDLES



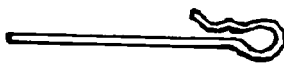
1 HEDDLE AND REED HOOK 8 5/8" long 6140-9000



1 Multi bits SCREWDRIVER



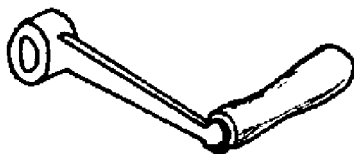
1 Adjustment wrench



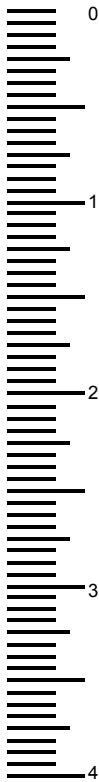
10 TREADLE HOOK **9 1/2 "** LONG



60 TREADLE CORDS **6 1/2"**



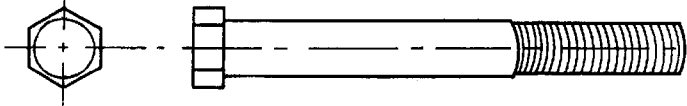
1 CRANK FOR BACK BEAM



# PARTS LIST (8s)

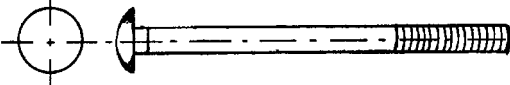
**Machine bolts**

1 - 7/16 X 3 1/2" (12 mm 90 mm)




**Carriage Bolts**

2 - 1/4 X 3 1/4" (6 mm x 80 mm)  
 2 - 1/4" X 3" (6 mm x 75 mm)  
 2 - 1/4" X 1 3/4" (6 mm x 45 mm)  
 4 - 5/16 X 2 1/2" (8 mm x 65 mm)  
 2 - 1/4" x 2 1/4" (stab. post)



**Nuts**

2 - 1/4" (6 mm)  
 2 - 5/16" (8 mm)



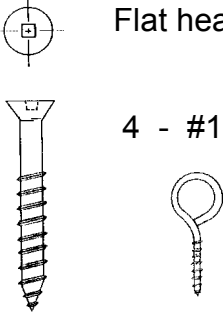
**Washers**

1 - 9/16 cloth beam  
 2 - 9/16" treadle set  
 4 - 5/16" (8 mm)

**Flat head screw**


4 - #12 X 1 1/2" (38 mm)

2 eye screws



**Round head screw**

6 - #14 X 2" (50 mm)  
 2 - #8, 1 1/4" (treadles separator)  
 8 - #12, 1 1/2" (jack box)  
 6 - #8, 1" (stab. post hinges)



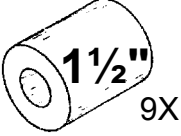
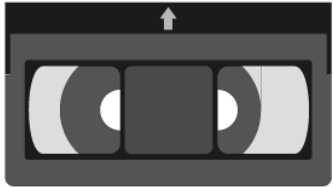

10 Loop cord 16" ( 13 1/2" cc black mark) long for treadle rocker

**Wing nuts**

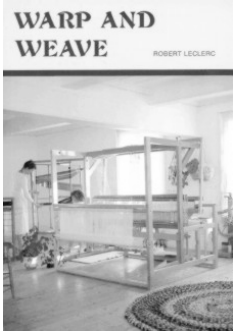
6 - 1/4" (6 mm)  
 2 - 5/16" (8 mm)

**Wooden spacer**

1 1/2" 9X

1 VHS Video cassette  
Showing all stage of the installation



1 book Warp&Weave



Tacks for canvas

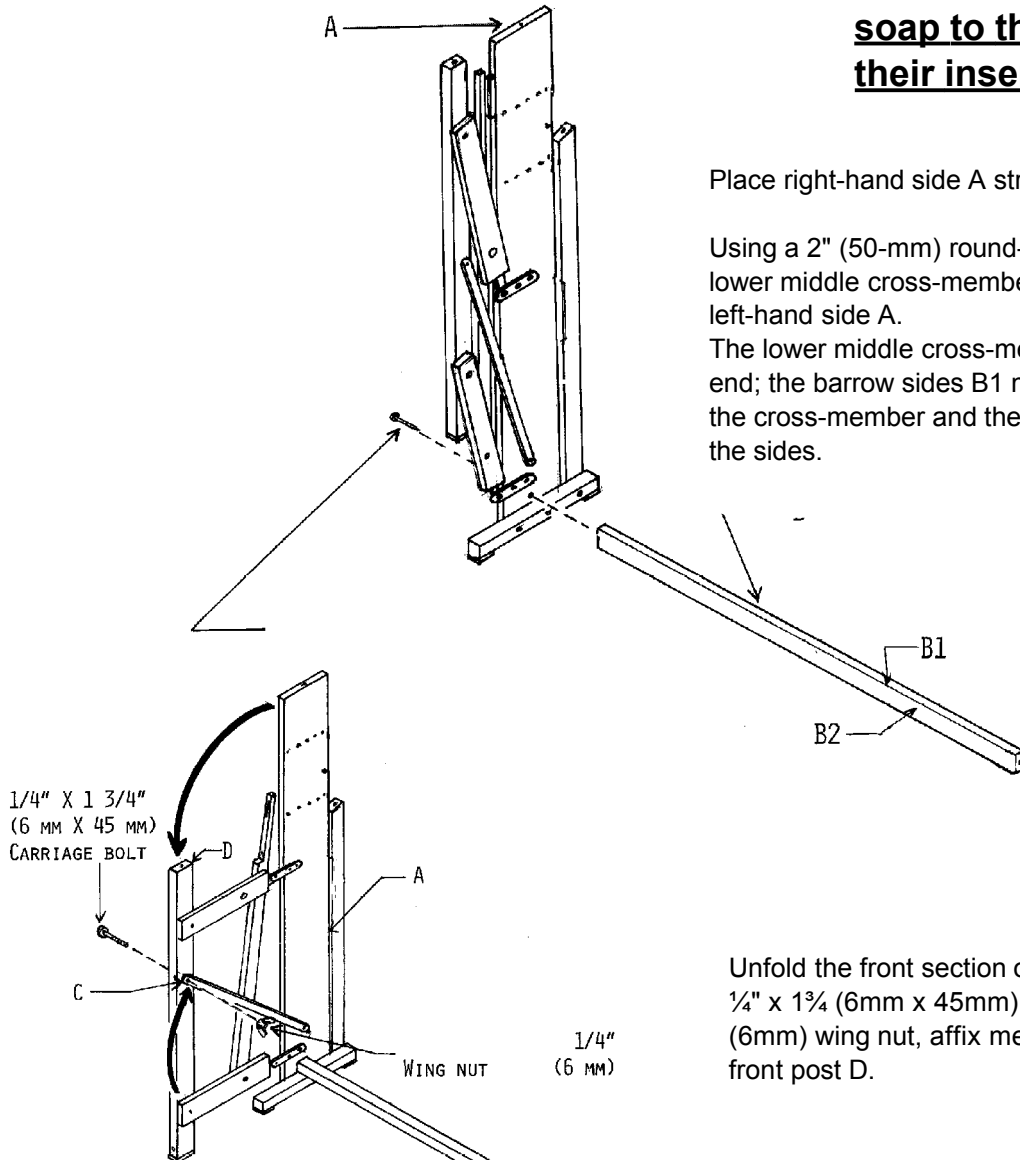
# ASSEMBLY

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

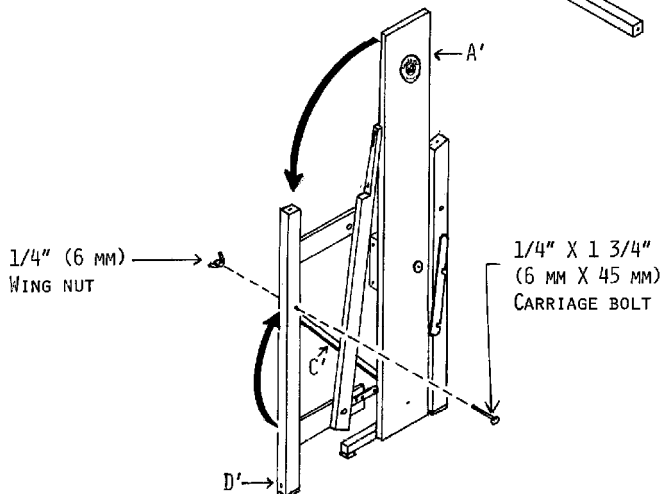
Place right-hand side A straight up beside the wall.

Using a 2" (50-mm) round-headed screw no 14, affix lower middle cross-member B to the bottom of left-hand side A.

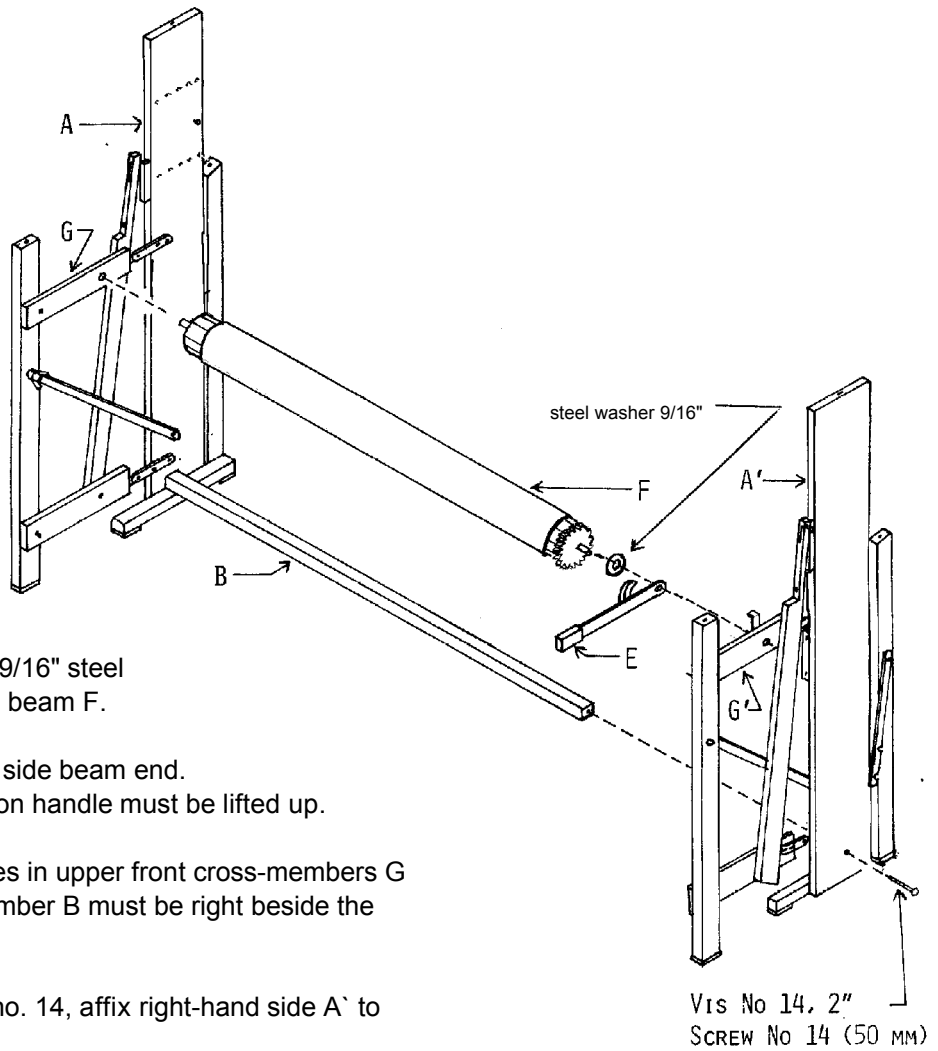
The lower middle cross-member has a hole at either end; the barrow sides B1 must be above and under the cross-member and the wide faces B2 must be on the sides.



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'.



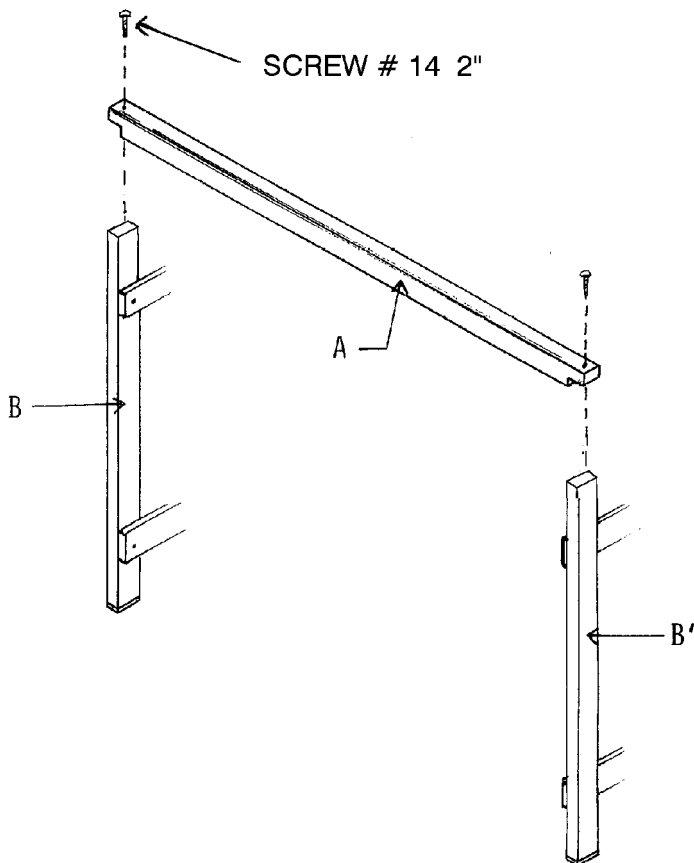
Place the take-up motion handle E, with a 9/16" steel washer, on the right-hand side end of cloth beam F.

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.

Insert the end of cloth beam F into the holes in upper front cross-members G and G'. The hole in lower middle cross-member B must be right beside the hole at the bottom of right-hand side A'

Using a 2" (50 mm) round-headed screw no. 14, affix right-hand side A' to lower middle cross-member B.

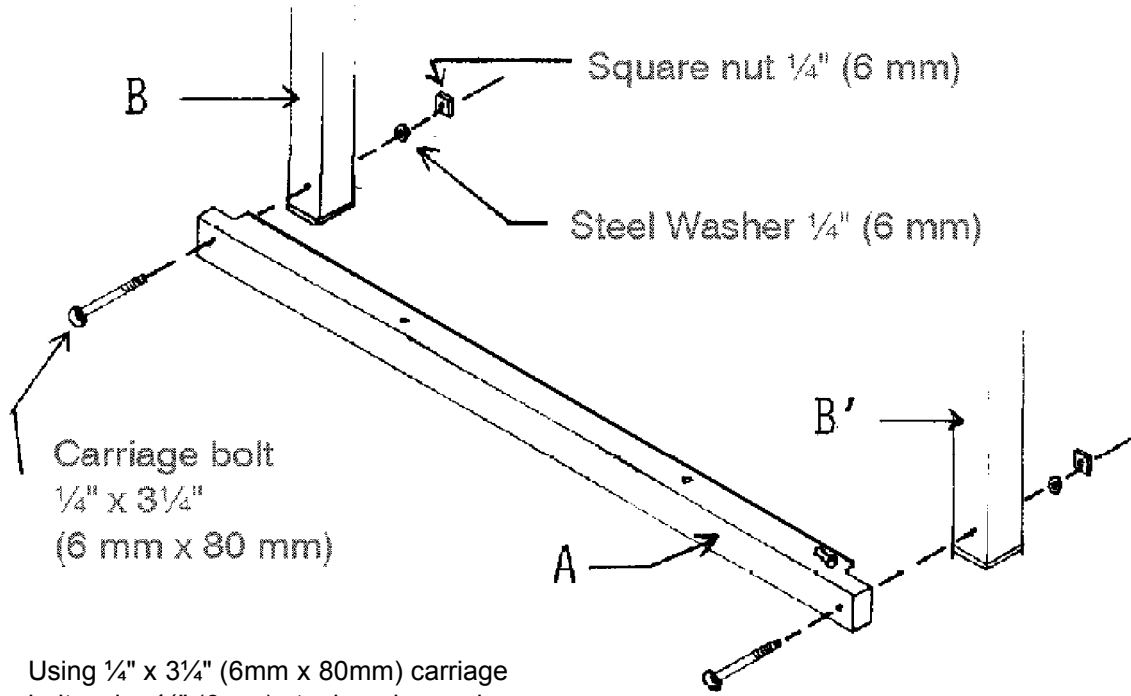
Vis No 14, 2"  
SCREW No 14 (50 MM)



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 angle must be towards the outside of the loom.



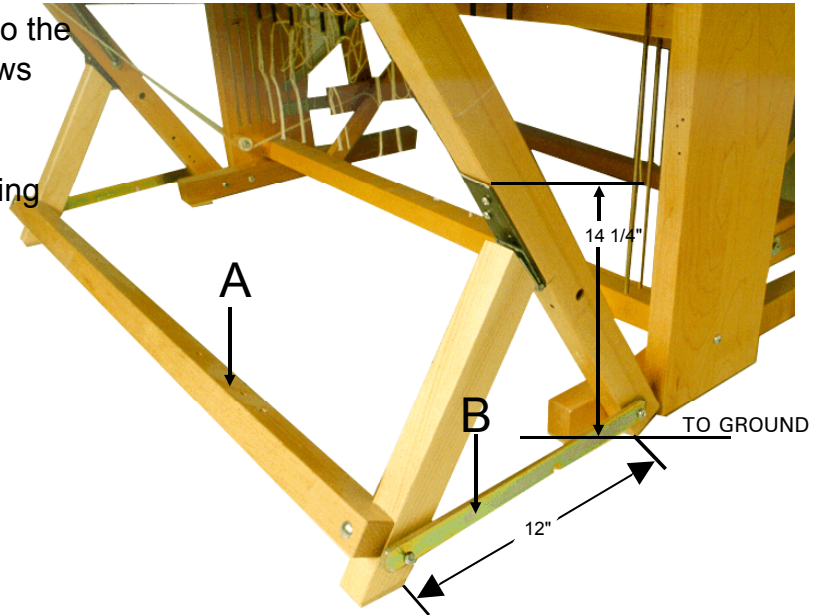


Using  $\frac{1}{4}$ " x  $3\frac{1}{4}$ " (6mm x 80mm) carriage bolts, plus  $\frac{1}{4}$ " (6mm) steel washer and square nuts, attach front cross-member A to front posts B and B`

## ATTACHING THE NEW STABILIZING ASSEMBLY TO THE LOOM

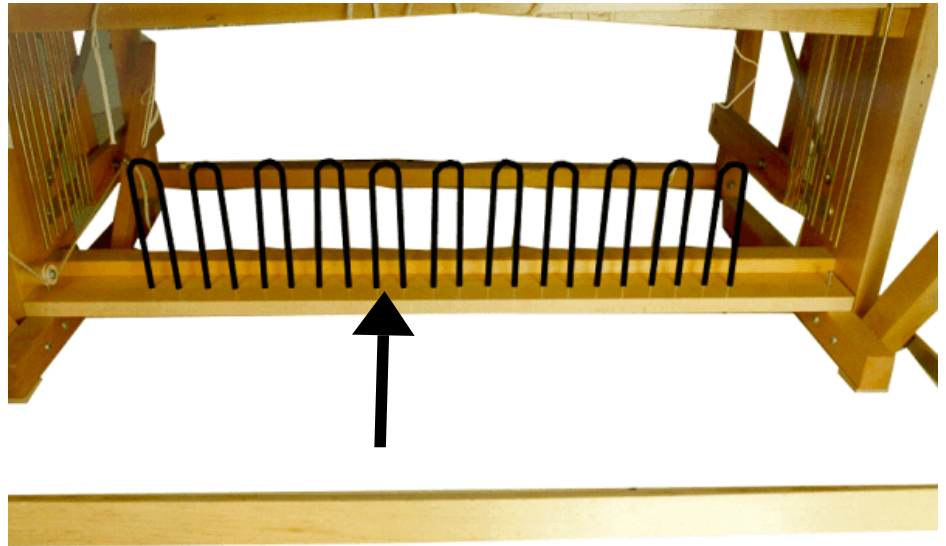
Install the new rear Stabilizing assembly (A) to the Warp Beam Posts using 6 Round Head Screws #8 - 1"

Anchor the hook (B) to the stabilizing post using 2 carriage bolts 2¼" x ¼" and 2 wing nuts ¼" (outside of the loom)



## TREADLE SEPARATOR

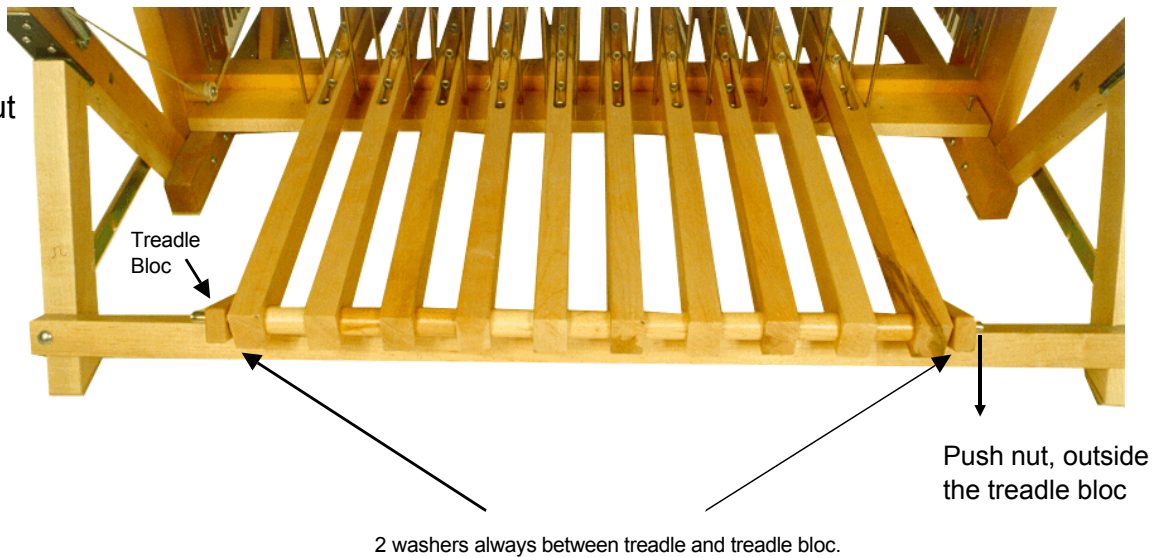
Affix the Treadle Separator Board on top of the back of the side base and secure using 2 #8, 1 1/4" Round Head Screws.



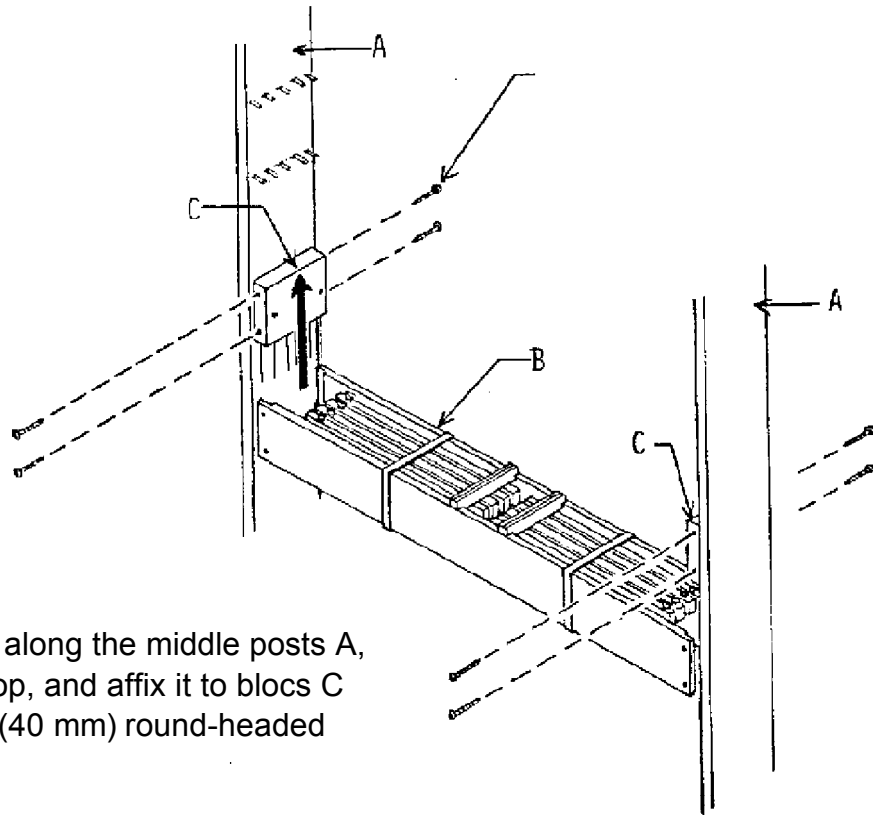
## TREADLE SET ASSEMBLY

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

- 1 treadle rod 28"
- 10 treadles
- 9 wood spacers
- 2 treadle blocs
- 1 x 1/4" washers
- 2 push nut 7/16"

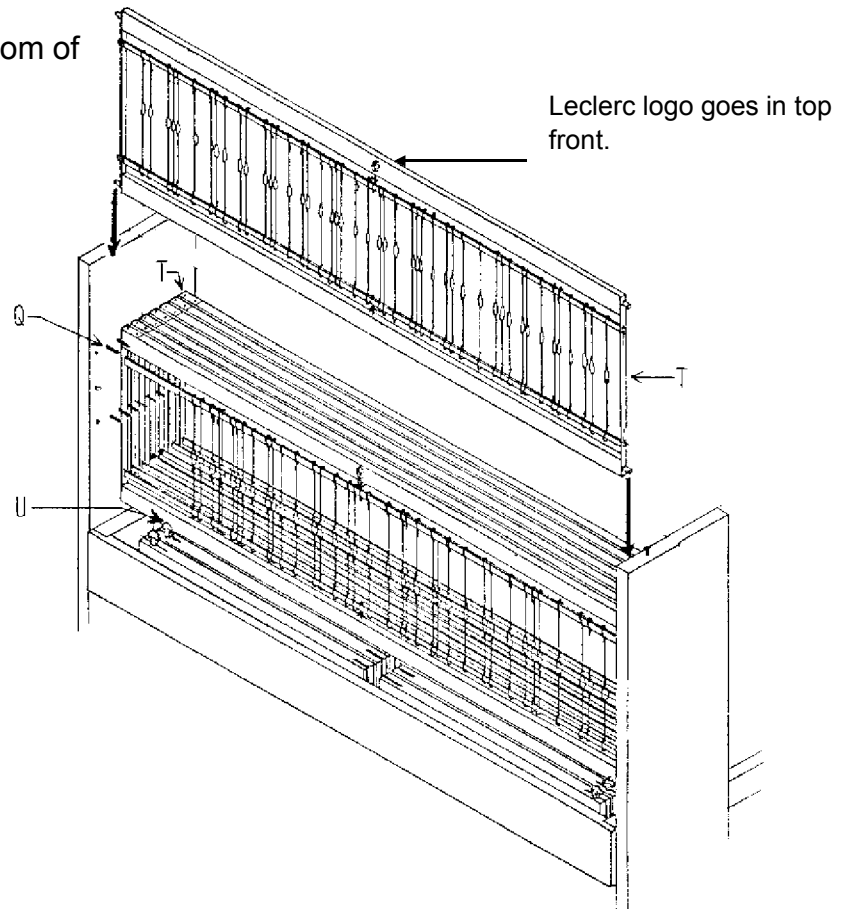


Affix treadle set to the treadle cross-member using:  
2 carriage bolts 1/4" x 3 1/2"  
2 washers 1/4" (under cross member)  
2 Wing nuts 1/4"



Slide jack box B along the middle posts A, from bottom to top, and affix it to blocs C using eight 1½" (40 mm) round-headed screws no. 12.

NOTE: The 10 screws goes in front bottom of the loom.  
The eyescrews goes in the back bottom of the loom.

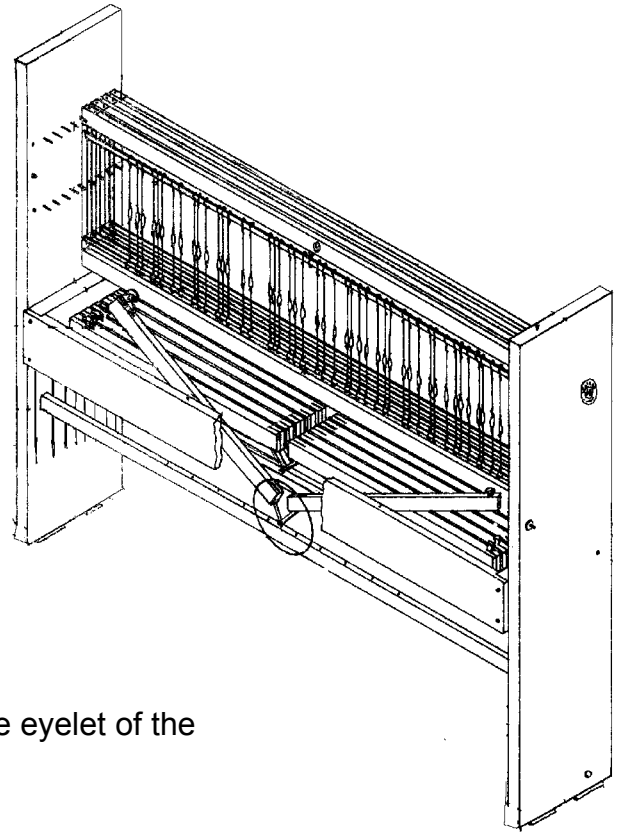
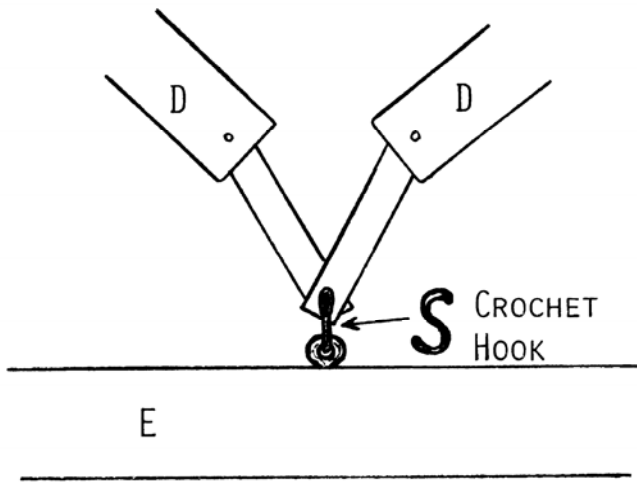


Install the heddles in the shaft frames. (see "WARP AND WEAVE" on page 10)

Remove the saran wrap of 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 castle frame until the castle top is fix.

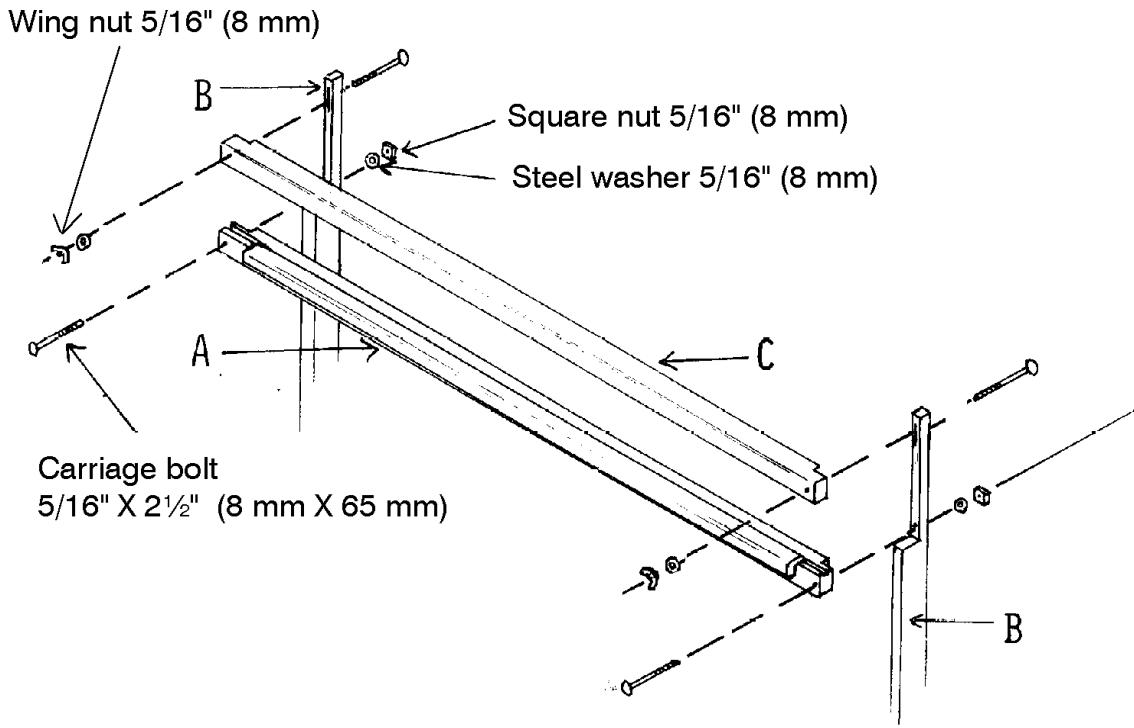


Joint the "S" hook of the jacks D to the eyelet of the FLOATING lam E.

### Castle cover

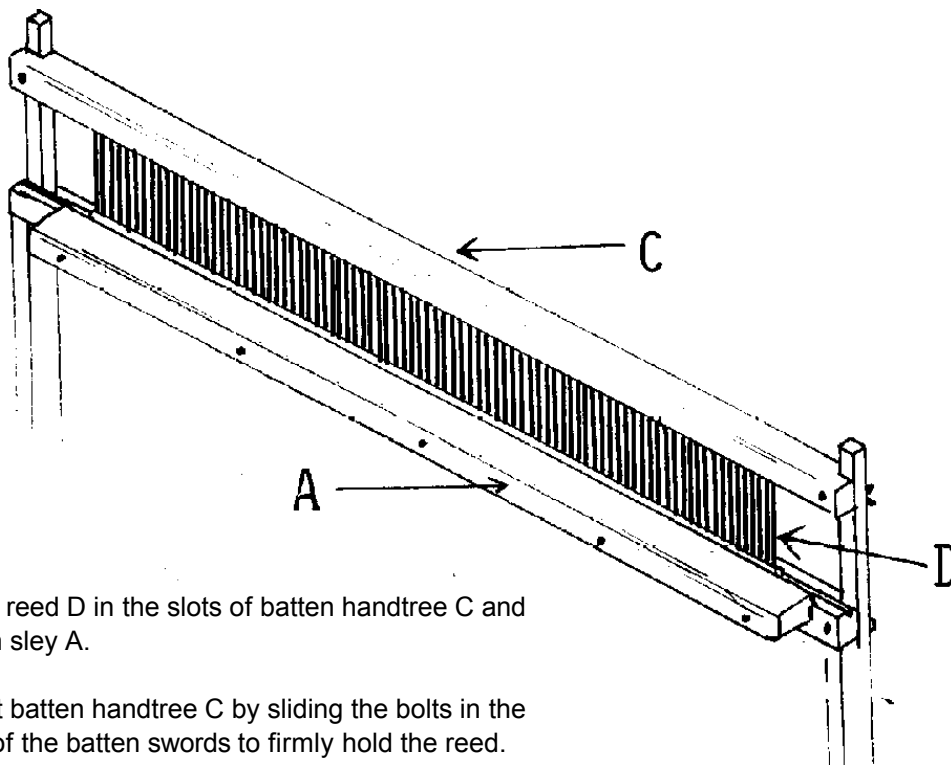
Complete the assembly with securing the Castle cover with 4 #12 1½" flat screws. Make sure to screw in the pre-drill holes of the castle.

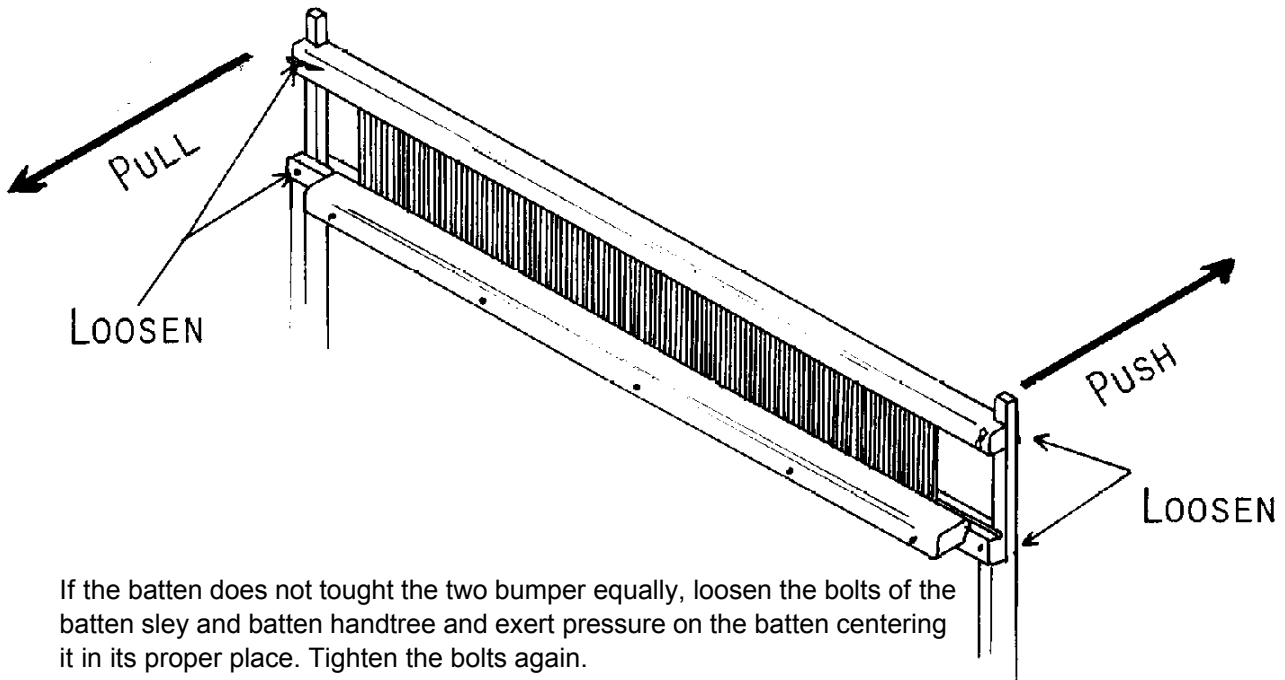




Using the carriage bolts, steel washers and square nuts, attach the batten sley A (with shuttle race) to the batten swords B.

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

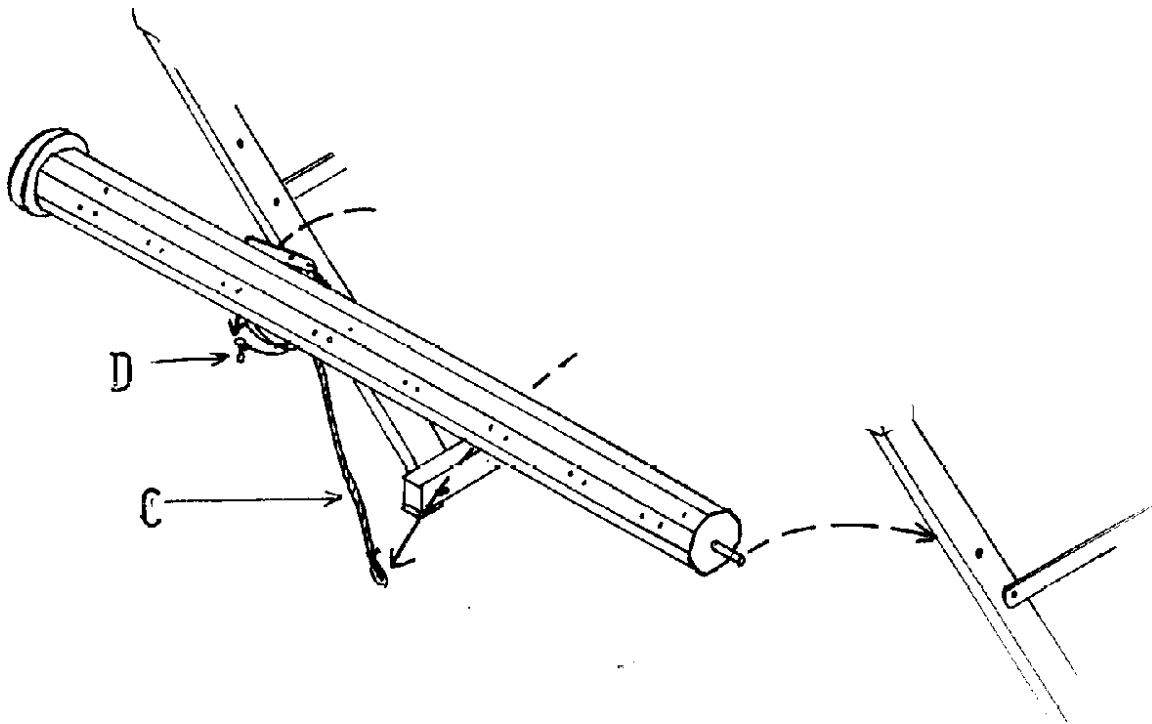




### TREADLE SPRINGS

Insert the Spring Rod and Springs in the Screw Eyes below the Jack Back Board aligning one spring above each treadle. (see diagram)

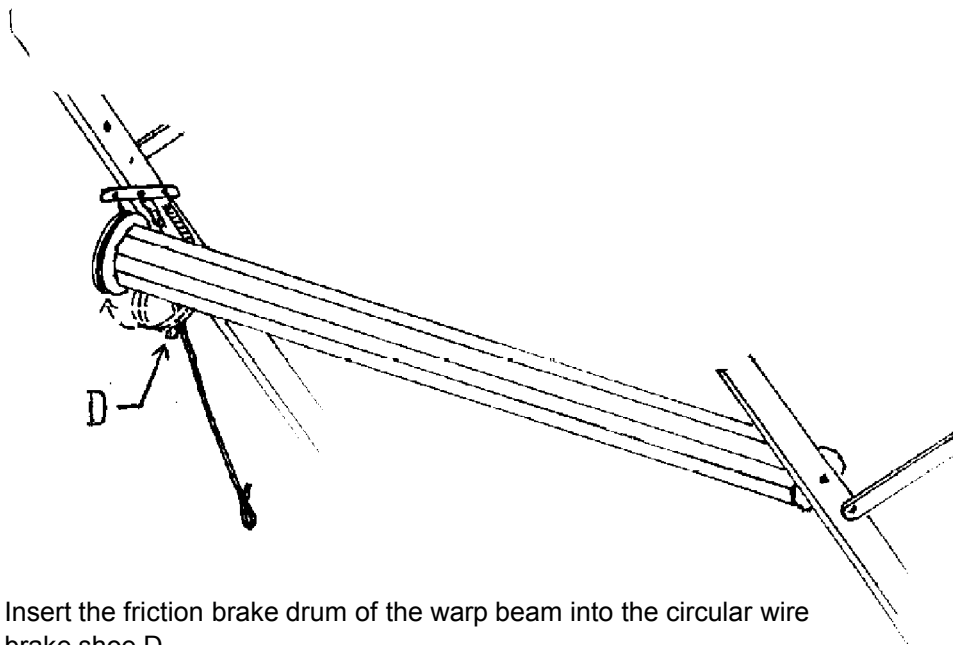




Unhook brake treadle cord C from the brake release treadle.

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.

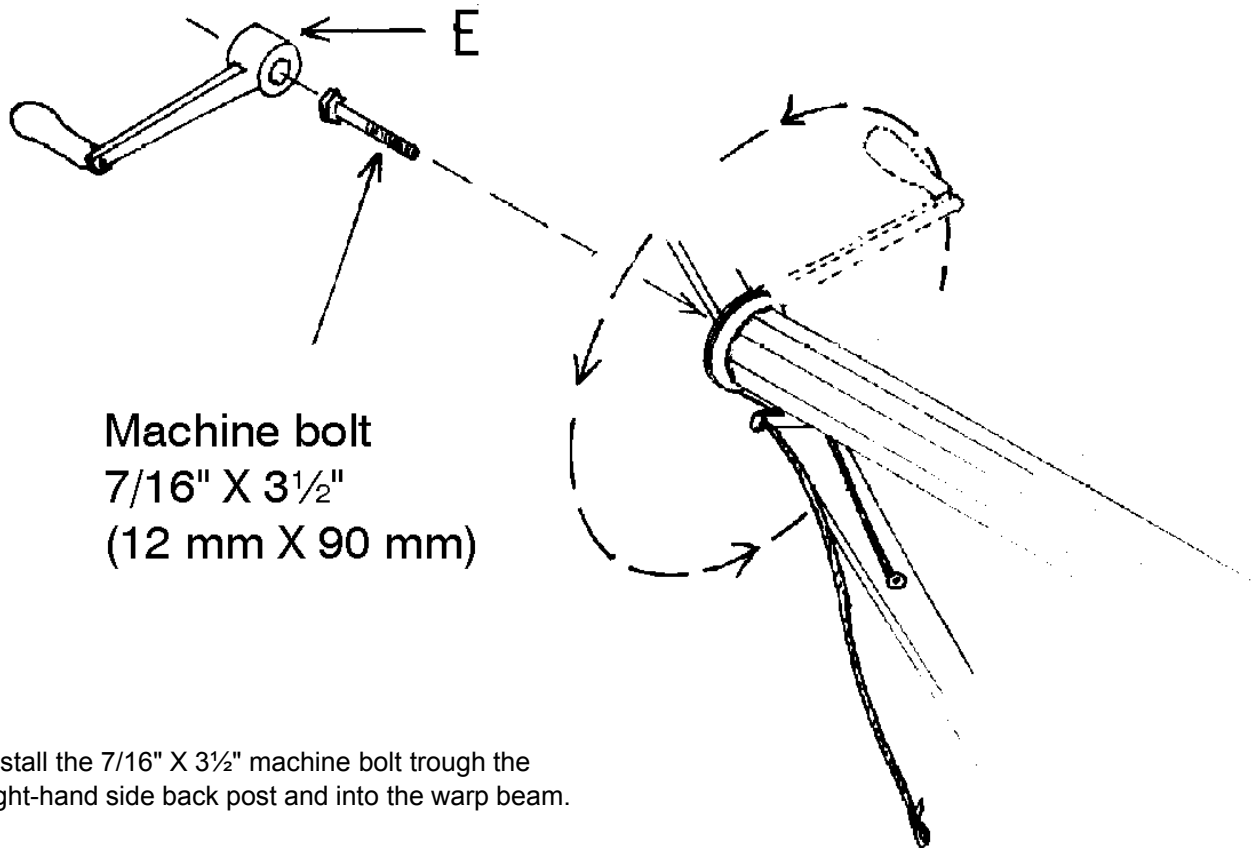


Insert the friction brake drum of the warp beam into the circular wire brake shoe D.

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



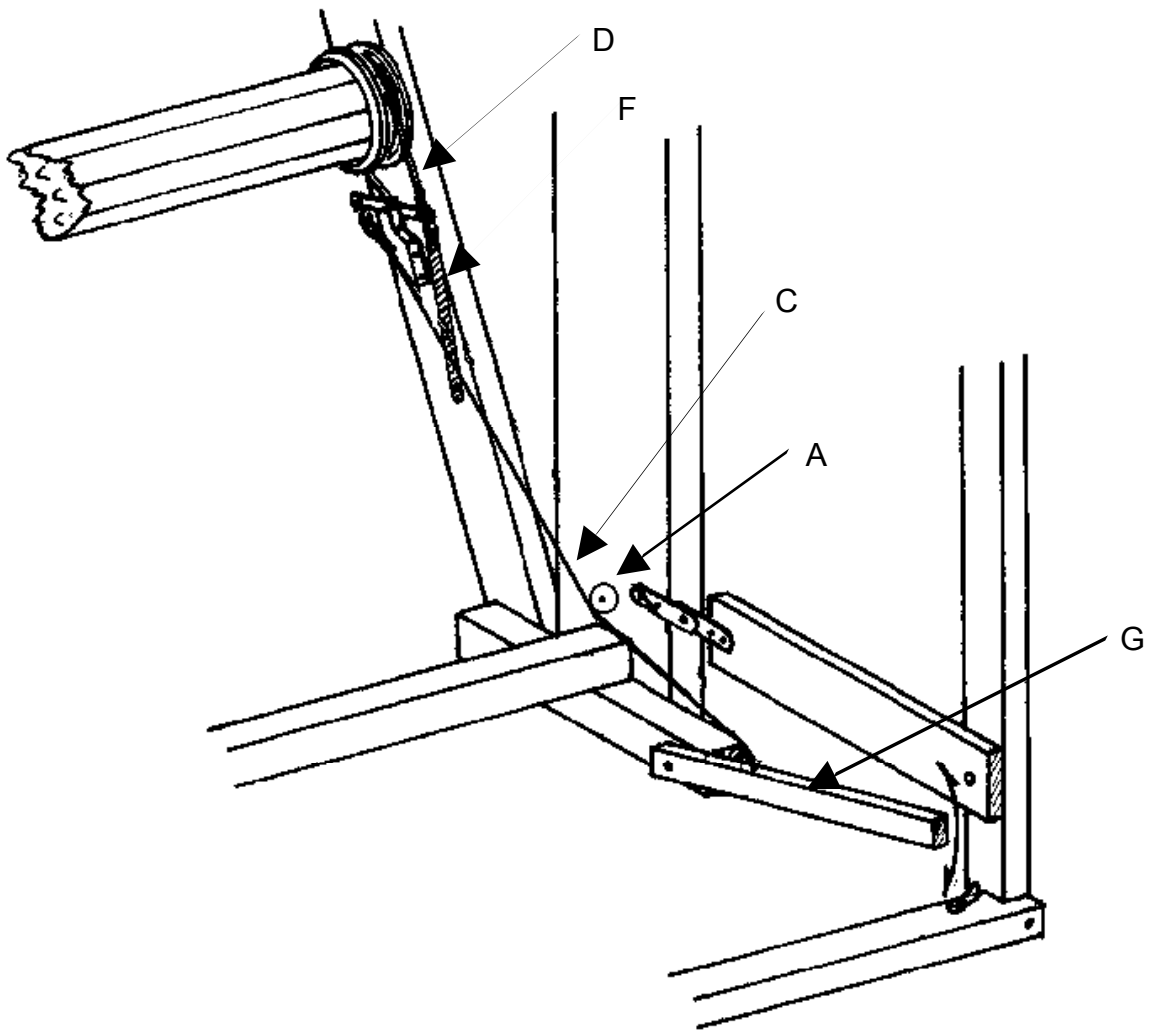
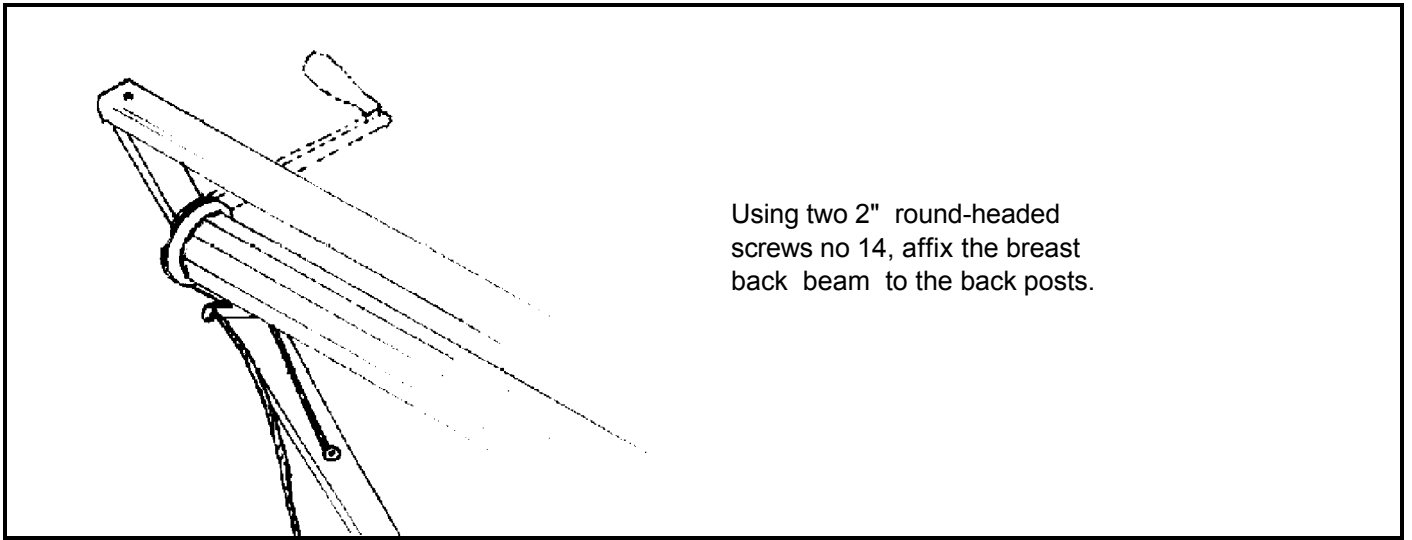
Insert the brake end of the warp beam into the hole of the right-hand side back-post.



**Machine bolt**  
**7/16" X 3½"**  
**(12 mm X 90 mm)**

Install the 7/16" X 3½" machine bolt through the right-hand side back post and into the warp beam.

Using crank E, tighten the machine bolt into the warp beam.



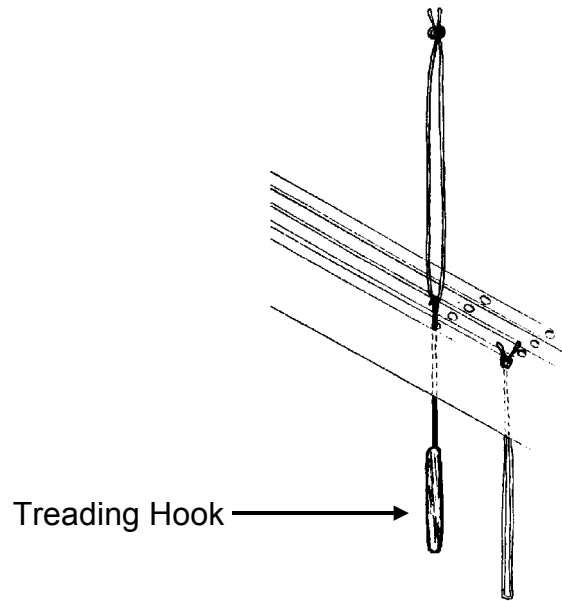
Attach the end of circular brake shoe D (wire brake circle) to the hook of spring F

Then attach cord C to the hook of brake treadle G passing cord under pulley A

See "Warp and Weave book (friction brake section page 87)

## FIRST TREADLE TIE-UP

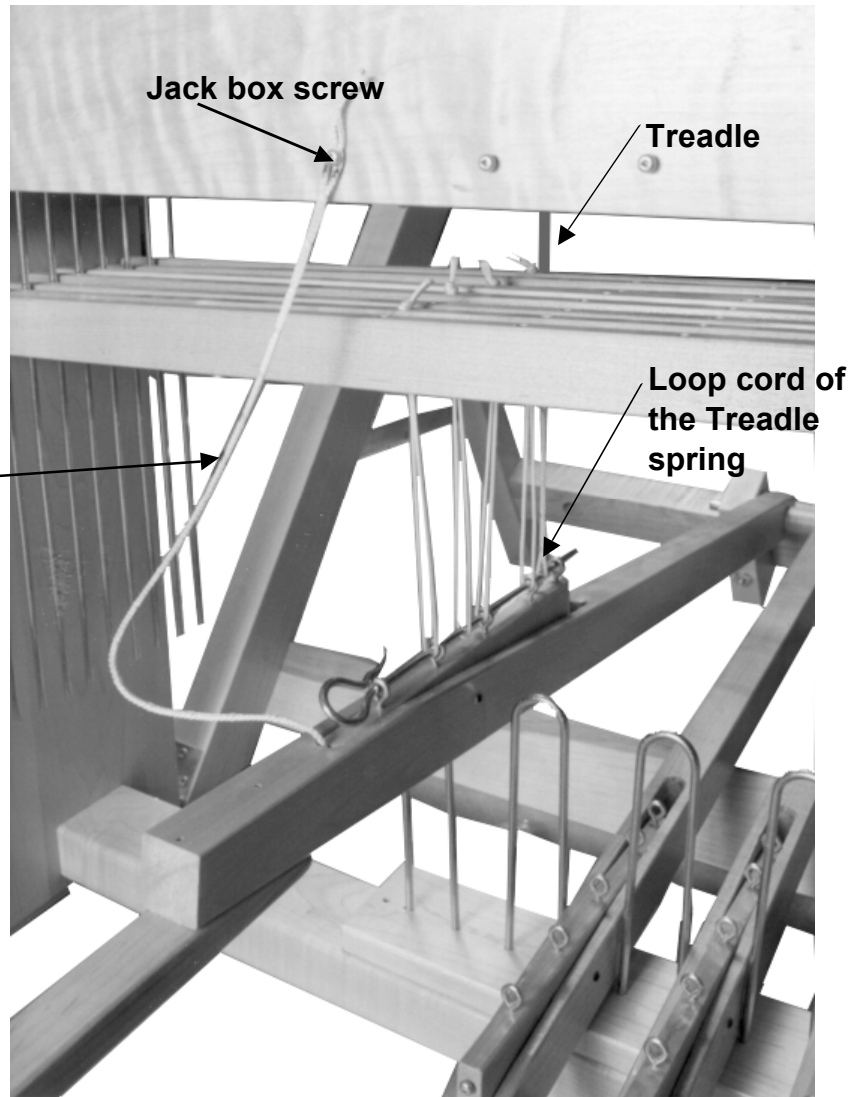
Select any treadle and tie the Lams to Treadles using the 6 1/2" cords supply with the loom. Take the treading hook to help passing the cord through each hole of the lam.



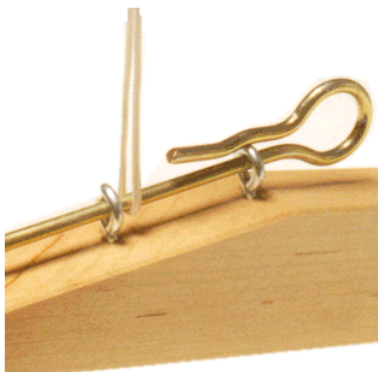
## TREADLE HOOK AND ROCKER LOOP CORD

Slide the Treadle Hook thru the Screw Eyes and Cord Loops. Before the last Screw Eye, insert the Hook thru the Treadle Spring and secure. In the Treadle rest position(up) there should be no or very little tension on the Spring. However slack on those cords is not desirable. When all treadles are tie-up, they should be at same height.

Rocker loop cord



Install the Treadle Rocker Loop Cord on the Anchors(Screw Heads) using the marked points at the Anchor.(see diagram)



### 11) FIRST SHED

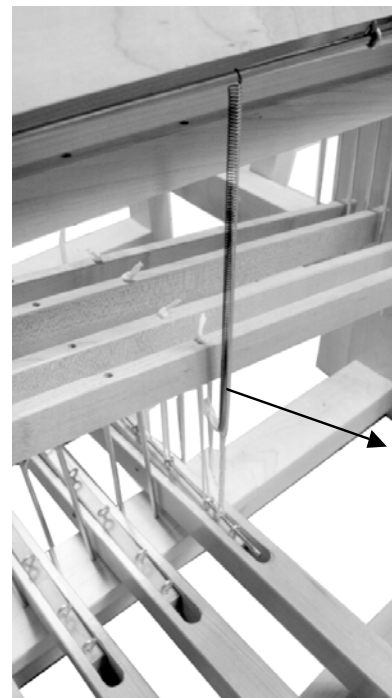
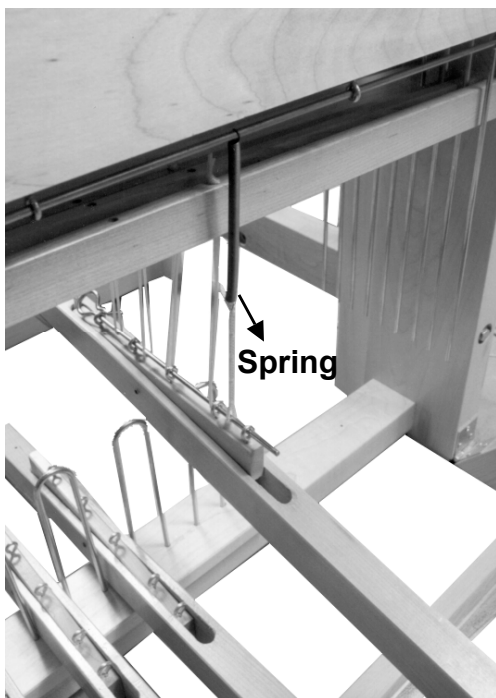
When you depress the Treadle, the Rocker Loop Cord raises the front Rocker setting the Shafts at the correct Level.(see diagram)

Rocker loop cord

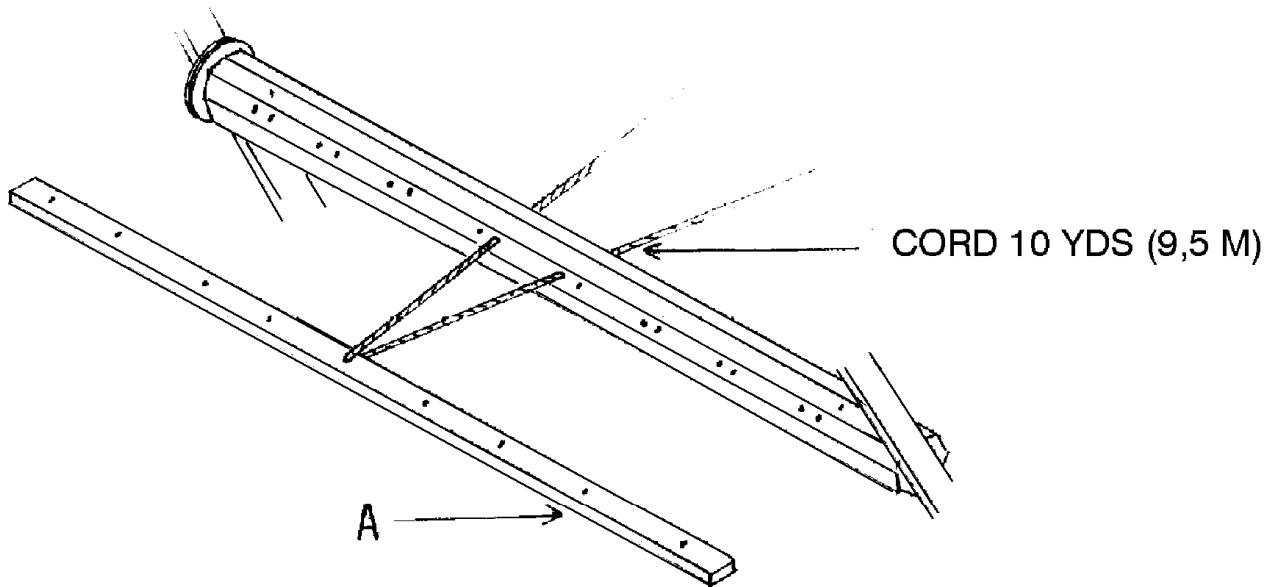
Rocker screw



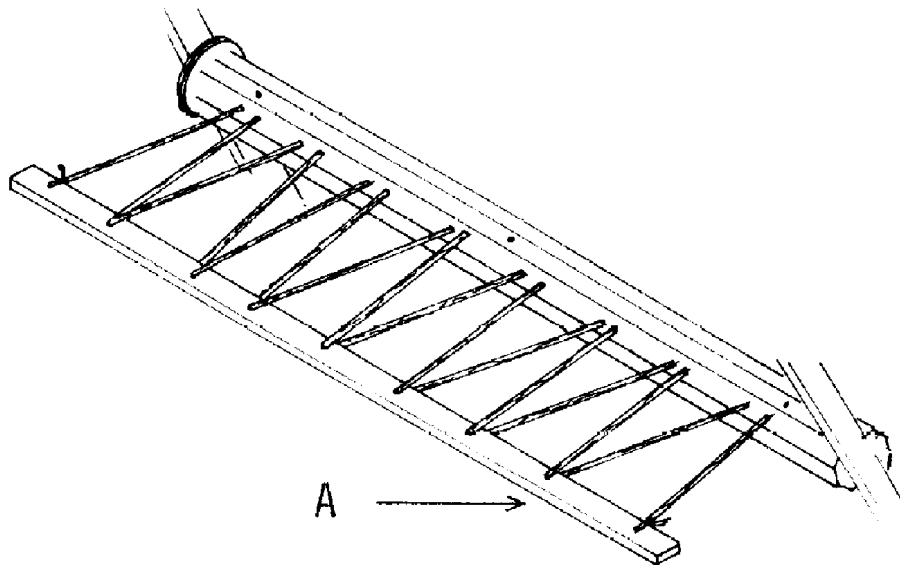
### 12) VIEW FROM THE BACK OF THE LOOM SHOWING THE TREADLE AT REST POSITION AND DEPRESS



## BEAMING

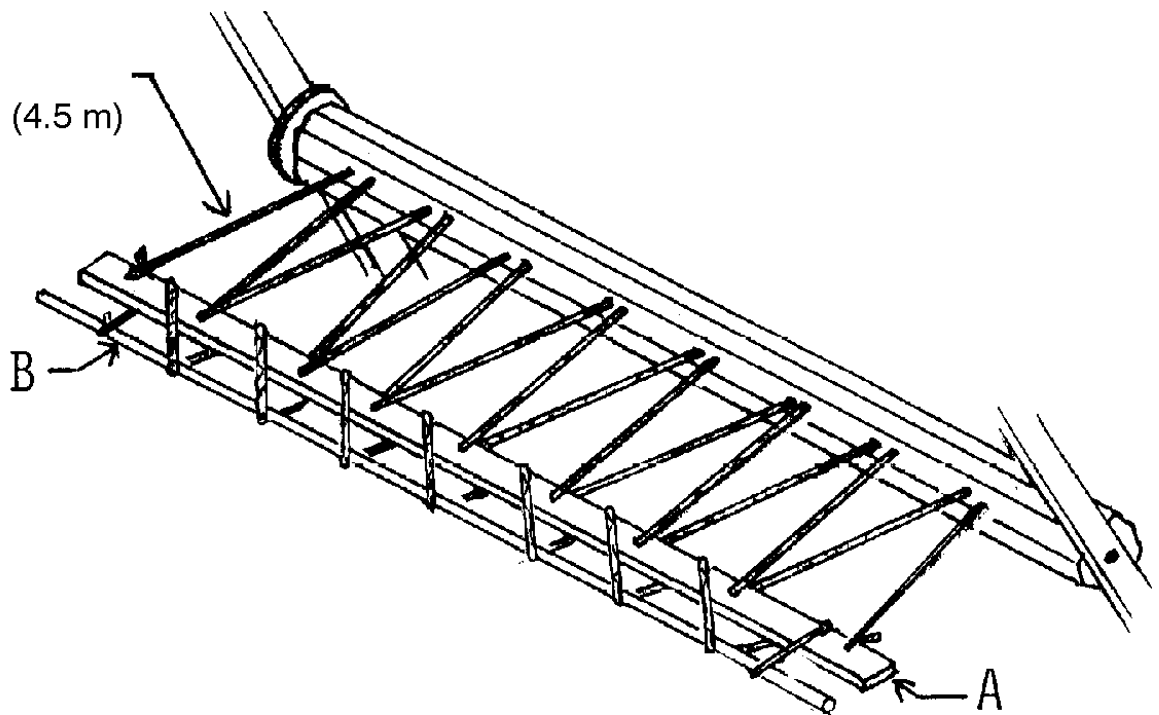


Thread the 10 yard (9 m) cord through the middle hole of beam stick A. Then pass the two ends (equal in length) of this cord through the middle holes of the warp beam.

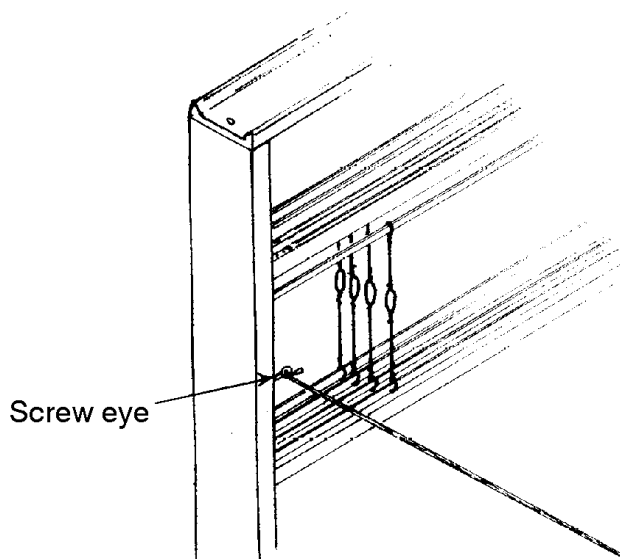


Continue threading the cord through the warp beam and beam stick A.  
Knot the cord at each end of the beam stick.  
Adjust the cord so it is equally divided and keeps the beam stick straight. This will reduce warp wastage.

Cord  
 1/2 of 5 yard (4.5 m)

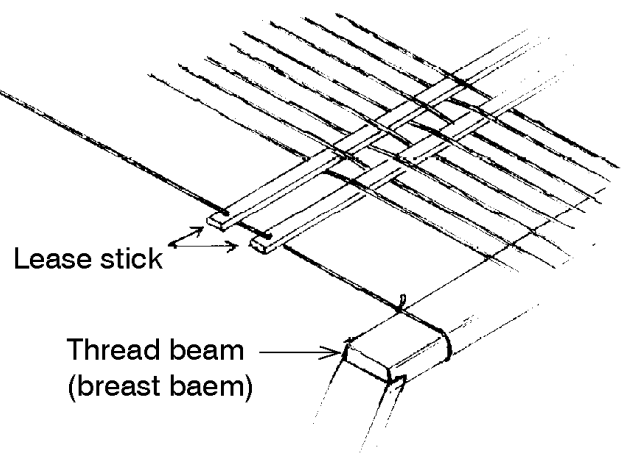


Cut the 5-yard (4.5 m) cord in half. One half of this cord laces beam stick A to warp rod B. Insert a metal rod into the apron of the cloth beam. Use the other half of the cord to lace this rod to the third metal rod.



Screw eyes have been affixed in the inner side of main post.  
 After having passed a string through the holes of the lease sticks, tie the ends of this string to the thread beam and to the screw eye. Do the same operation with the other end of the lease sticks.

The lease sticks will then be held at a practical height for threading



## ADJUSTING THE SHED WITH A BACK HINGE TREADLES LOOM.

The key to a wide clean Shed is the proper adjustment of the Rocker Loop Cord. Once you have completed the hookup of 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 uniform across the width of the Loom.(see diagrams for examples)

Picture #1 shows an uneven Shed caused by Rocker Loop Cords being out of adjustment.

Picture #2 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.

We at Leclerc encourage Weaver feedback on this and all our products. Please send your comments to Leclerc Loom Co.

HAPPY WEAVING

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