

# Leclerc Looms

Since 1876



1573 Savoie  
C. P. 4 Plessisville, Qc.  
G6L 2Y6  
TEL: 819-362-7207  
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 #7 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.



MIRA II

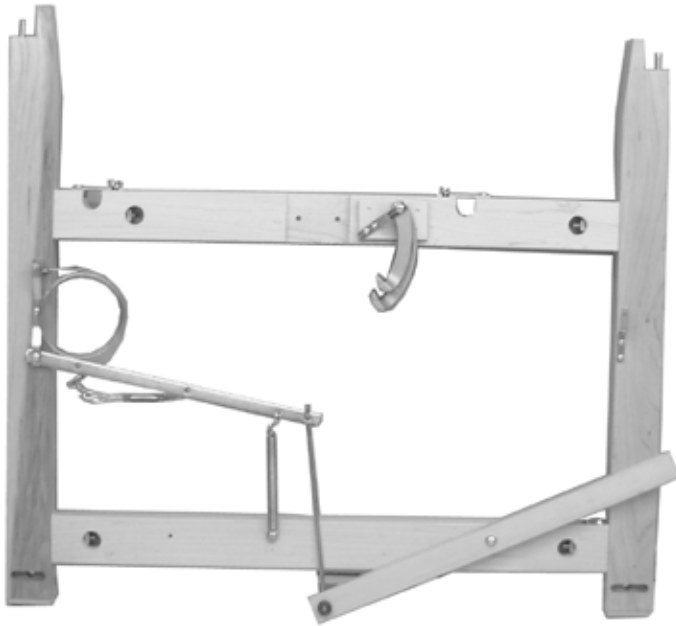
27"	4230-0127
36"	4230-0136
45"	4230-0145
60"	4230-0160

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

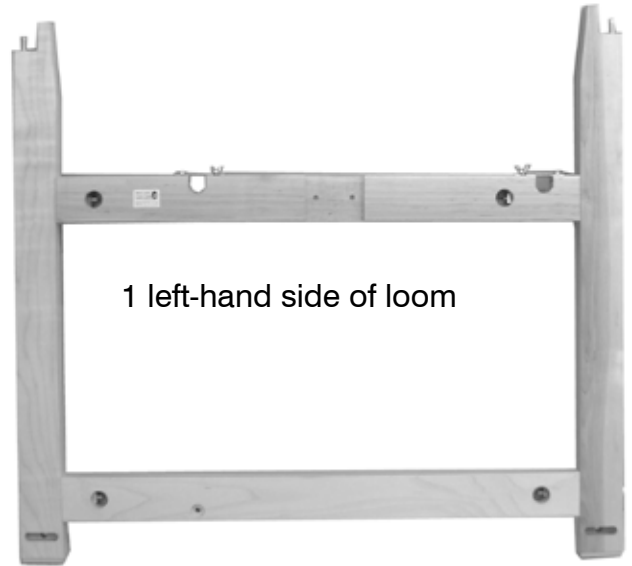
Inspected by : \_\_\_\_\_

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

# PARTS LIST



1 right-hand side of loom



1 left-hand side of loom

6 Treadles



1 Metal treadle supports



1 Treadle set rod 19 3/4" with  
1 Push nut 7/16"



1 More treadle set  
push nut 7/16



1 Warp beam advance  
control system



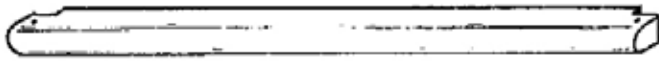
2 Screw no 12, 1"

## LECLERC NOTE IN FRENCH:

1) Faire le trou sur le montant centre pour l'attache du ressort de régulateur. 1" plus haut que le crochet arrière.

2) Faire les trous pour le frein d'ensouple

3) Faire les petit trous dans les montants pour les baguettes d'encroix.



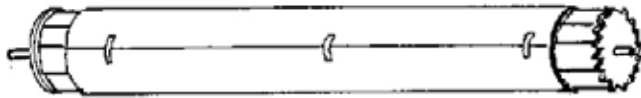
2 Breast beams  
(43 1/2", 52 5/8", 68 1/8")



1 Left sword (32 1/2")



1 Right sword (32 1/2")



1 Cloth (front) beam  
(38 1/2", 47 5/8", 62 9/16")



1 Warp (back) beam  
(38 1/2", 47 5/8", 62.9/16")



1 Batten handtree  
(46 3/4", 55 3/4", 70 3/4")



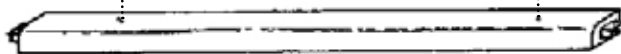
1 Batten sley with shuttle race (46 3/4",  
55 3/4", 70 3/4")

No holes

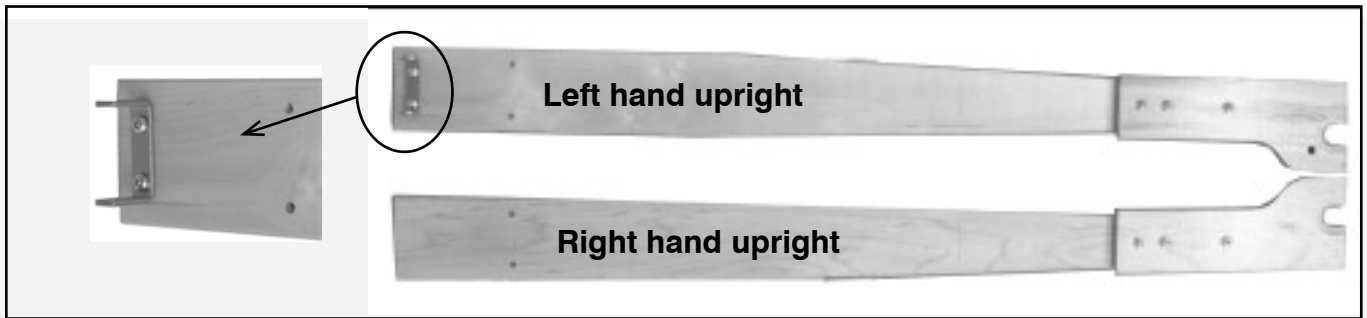


1 Back cross-member (40 1/8", 49", 64")

← 19 1/2" CC →



1 Treadle set cross-member  
(40 1/8", 49", 64 3/4")



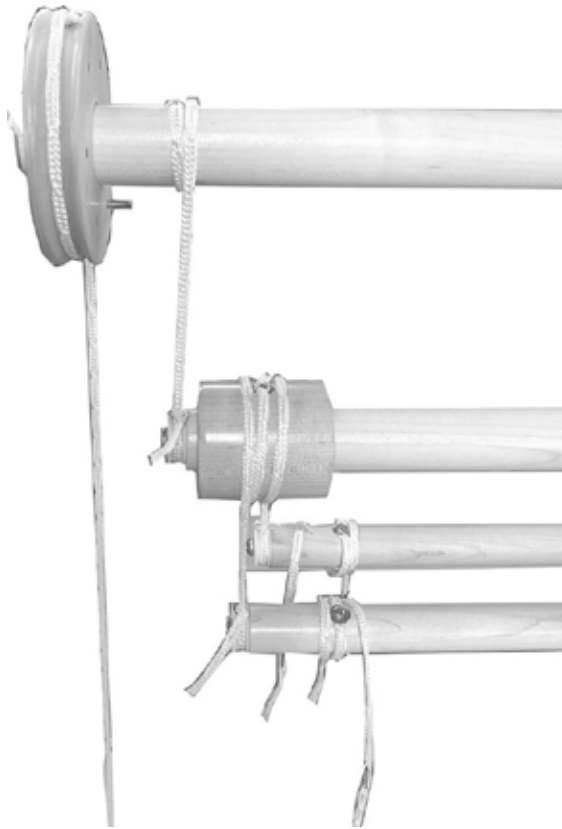
1 Apron



NOTE:  
Avec la rondelle de bois  
si nécessaire



1 Cloth take-up motion handle



1 Shed regulator roller

1 Middle roller

2 Small rollers with white pulleys

Loop cords already installed

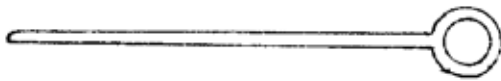


2 loop cords 17" Shed Regulator roller

2 loop cords 37½" Middle roller

4 loop cords 21" Small rollers

1 loop cord 49" Shed regulator



1 Metal pin to lock shed reg. roller



1 Open eyehook



Already installed

1 Round-headed screws No 6, ¾"

8 Round-headed screws No 8, ¾"

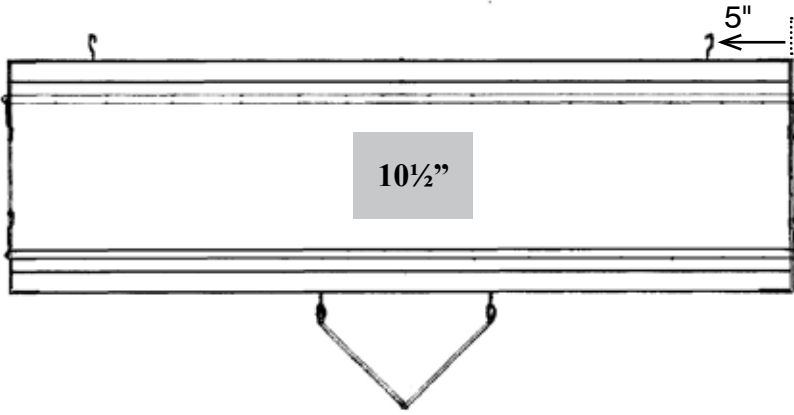


9 Steel washers 3/16"



1 Shed regulator spring

5.5" + Crochet en "S"

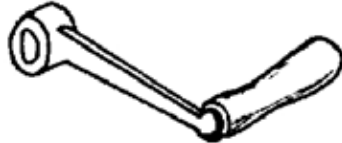


4 Shaft frames

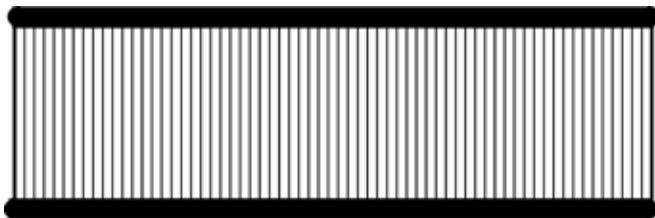


4 Lams

27" = 23 11/16" (cc 14 1/2")  
 36" = 28 3/16" (cc 19")  
 45" = 32 5/8" (cc 23 1/2")  
 60" = 40 1/4" (cc 31")



1 Crank



1 Reed



2 Lease sticks



4 Warp rods  
 + 2 heavy warp rod for narrow weaving



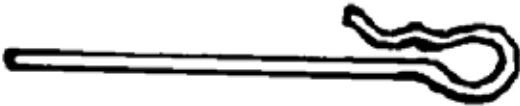
3 Screwdrivers (black, red and green)



1 wrench 7/16"



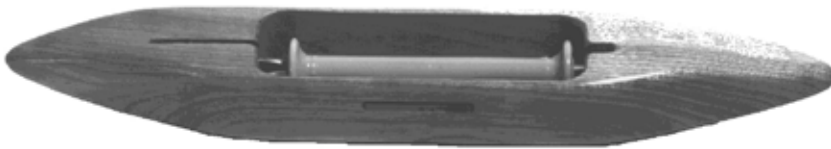
1 Adjustable wrench



1 Set of 6 treadle hooks 7" # 3500-4521



1 Set of 12 treadle cords 9"  
#3400-7011



1 Boat shuttle regular size



12 Plastic bobbins 4"



1 Threading hook with plastic handle

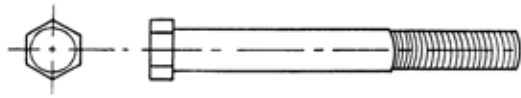


2 Pks cord - 5 yds each



10½"

1000 Heddles (27" & 36" loom)  
1200 Heddles (45" loom)  
1500 Heddles (60" loom)



Machine bolts  
 4 X - 3/8" x 5"  
 1 X - 1/4" x 4"



Carriage bolts  
 6 X - 5/16 x 2 1/2"  
 2 X - 5/16" x 2 1/4"  
 4 X - 1/4" x 2 1/4"



4 X - 1/4"  
 6 X - 5/16"  
 2 X - 9/16"  
 4 X - 3/8"



Hexagonal autolock nuts  
 5 X 1/4"



Wooden spacer  
 5 X 1 1/2"



Square nuts  
 4 X - 3/8"  
 6 X - 5/16"



Wing nuts  
 4 X - 5/16" (8 mm)



2 X Eye screws

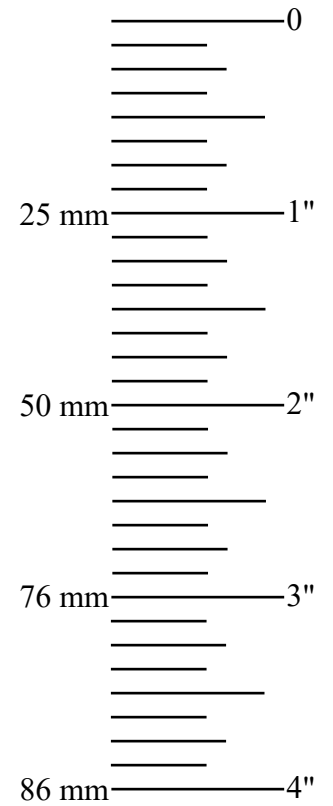


"Tacks" for apron

3 X Nylon spacers



2 X White nylon washers

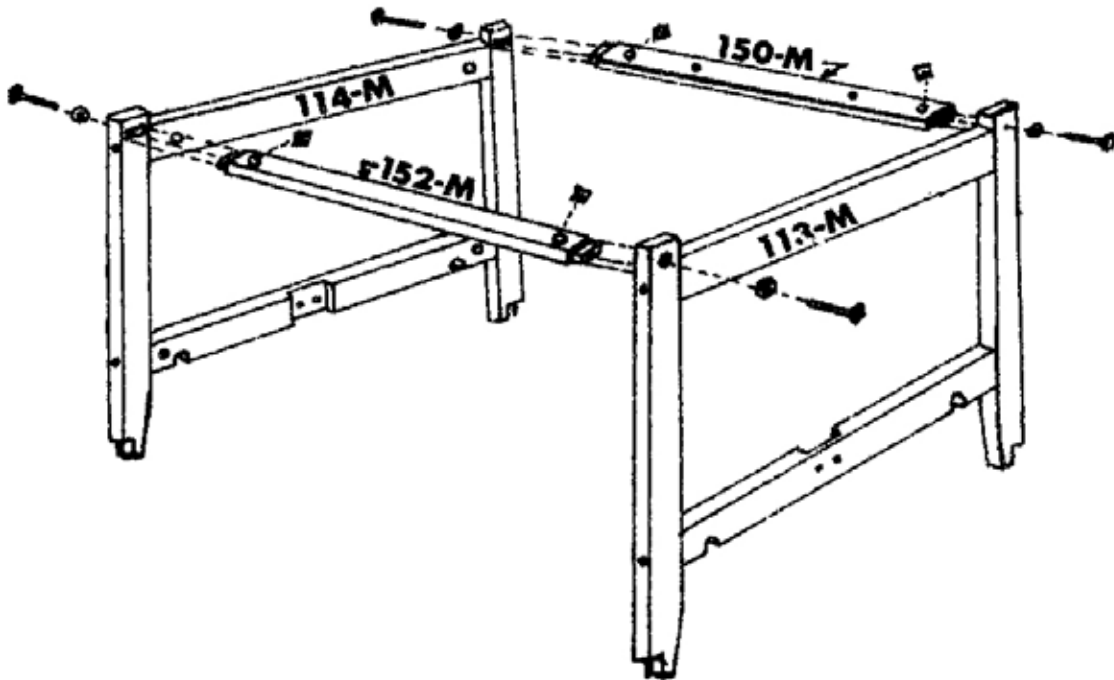


**Online Video** (Mira II loom) showing all stages of installation. In case of differences between the video and the instructions, follow the written instructions.

<https://vimeo.com/592197734/078201bb5f>



1 Warp & Weave



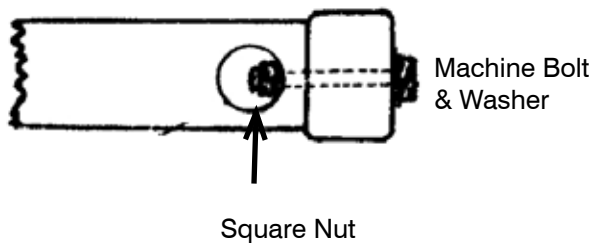
Take the 2 sides of the loom already assembled, place them on the floor upside down.

Insert the tenon of the lower cross-member 150-M and 152-M into the lower mortise of the sides of the loom.

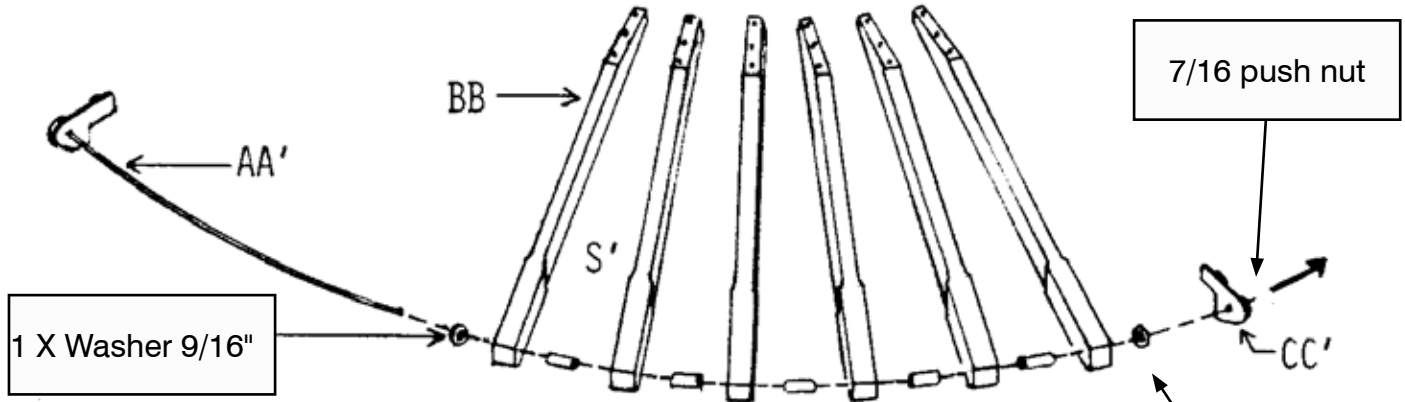
The round edge of the cross-members goes in the top (bottom here because the loom is now upside down) front for the front piece and in the top back for the back piece.

The lower front cross-member 150-M has two holes drilled through it which are used to affix the treadle set.

Using the wrench supplied with the loom, affix cross-members with a 3/8" x 5" machine bolt, a 3/8" steel washer and a square nut.





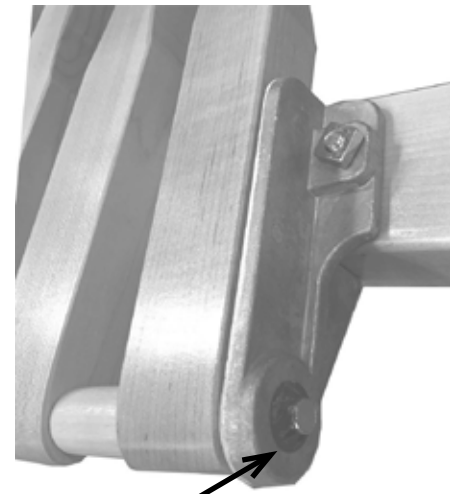


Assemble the treadle set as illustrated using:  
 6 treadles  
 5 wooden spacers 1 1/2"  
 Treadle rod pre-assembled  
 Steel Washers 9/16":  
 Push nut

1 X Washer 9/16"

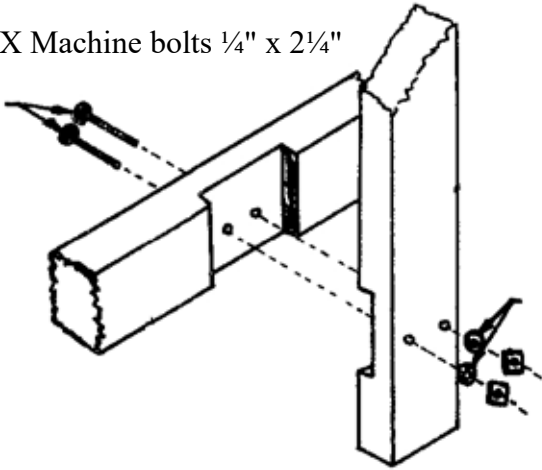
**Install the second side push nut only after the set is affixed to the loom.**

Affix the treadle set to the front treadle cross-member using the 2 square nuts 5/16"



Push nut

2 X Machine bolts 1/4" x 2 1/4"



2 X Washer  
1/4"

2 x Hexagonal  
auto-lock"  
1/4"

Place the upright in the mortises of the top cross-member. The left upright has a metal part near the bottom to hold the lams.

Make sure that the upright are at a 90 degree angle with the top cross members to ensure proper shaft frame action.

Outside view.  
Hit the bolts well before  
tightening them.



Inside left side



Inside right side



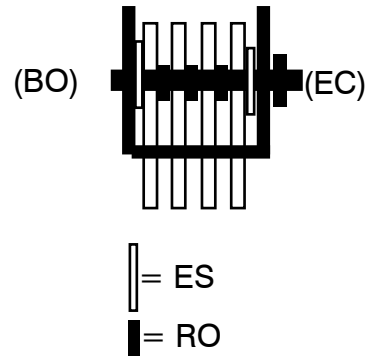
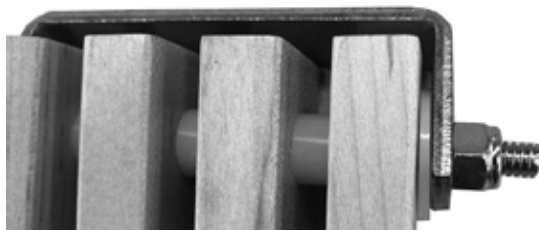
*Note:*  
Left upright has a hole on  
the rear to insert the locking  
pin.



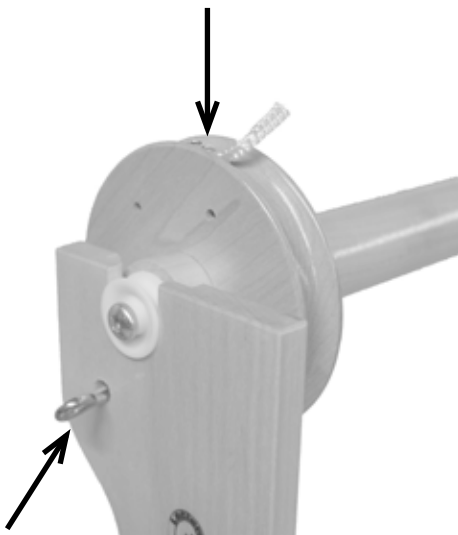
Using a ¼" x 4" machine bolt and a ¼" autolock nut, affix the four lams A to lam support B of the left-hand side main post.

- (BO) = 4" bolt
- (EC) = Autolock nut
- (ES) = White washer
- (RO) = White Nylon spacer

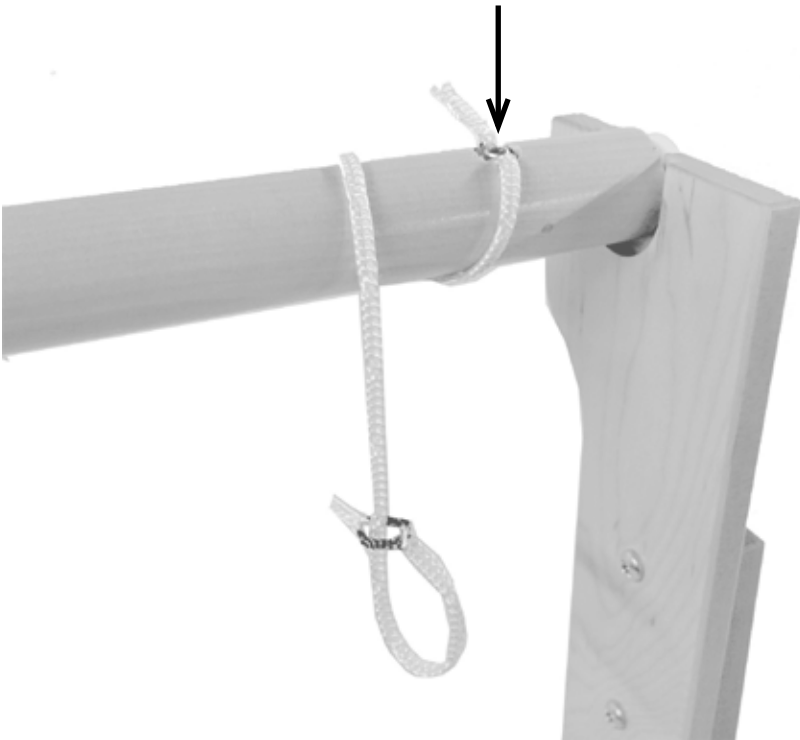
NOTE: The upper side of the lams has a single screw eye.



Install (now or later) the heddles in the shaft frames (see WARP & WEAVE).

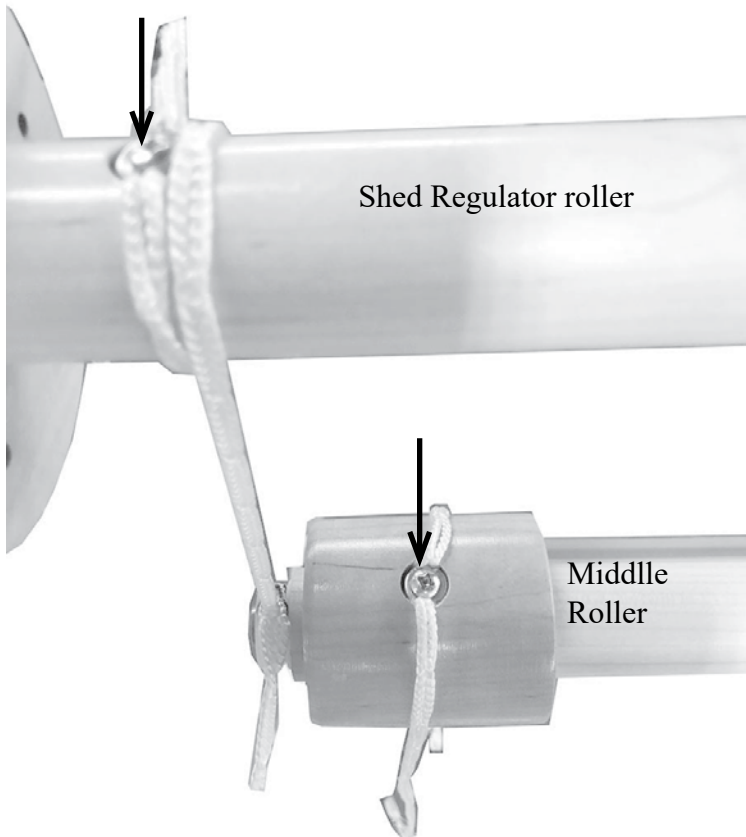


Place the regulator roller in the uprights and lock it in place while the small screw holding the loop cord is in the top.



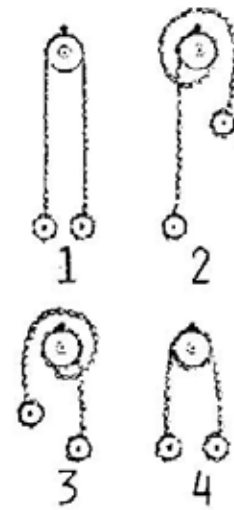
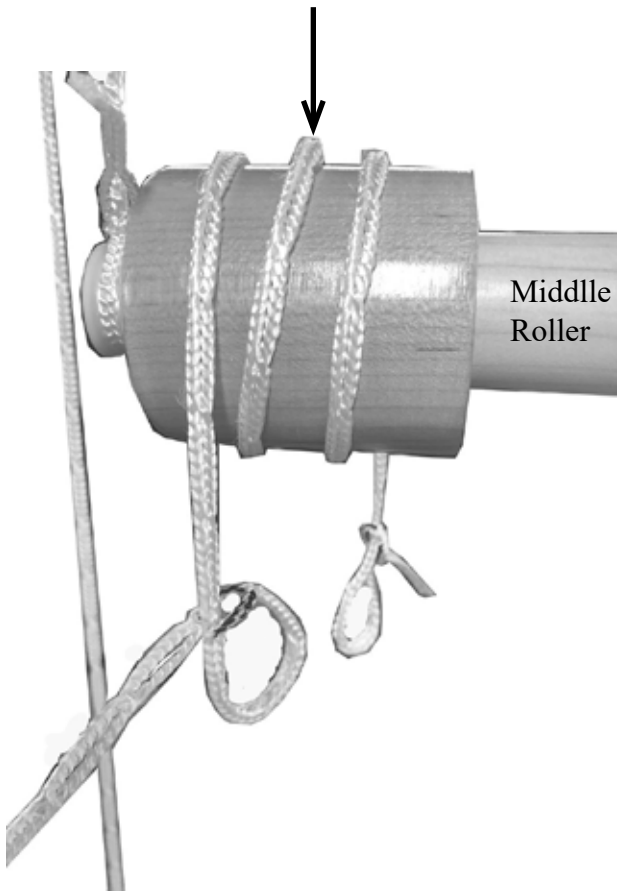
Make sure the screws and washers are above the regulator roller.

Turn the loop cord counterclockwise one turn and make a loop at the black mark.



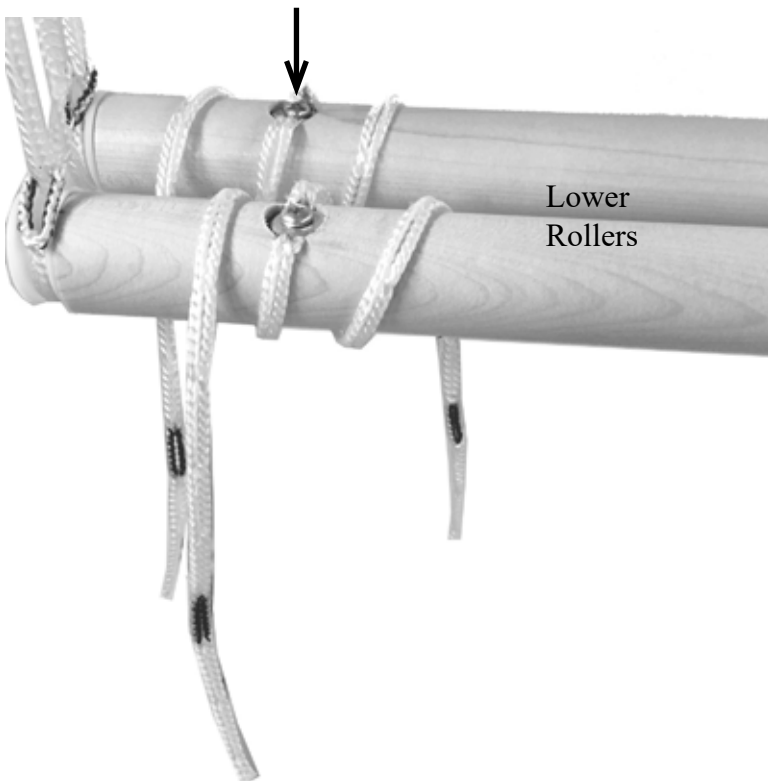
Install the roller with sockets (middle roller).

Insert the loop around the white pulley.



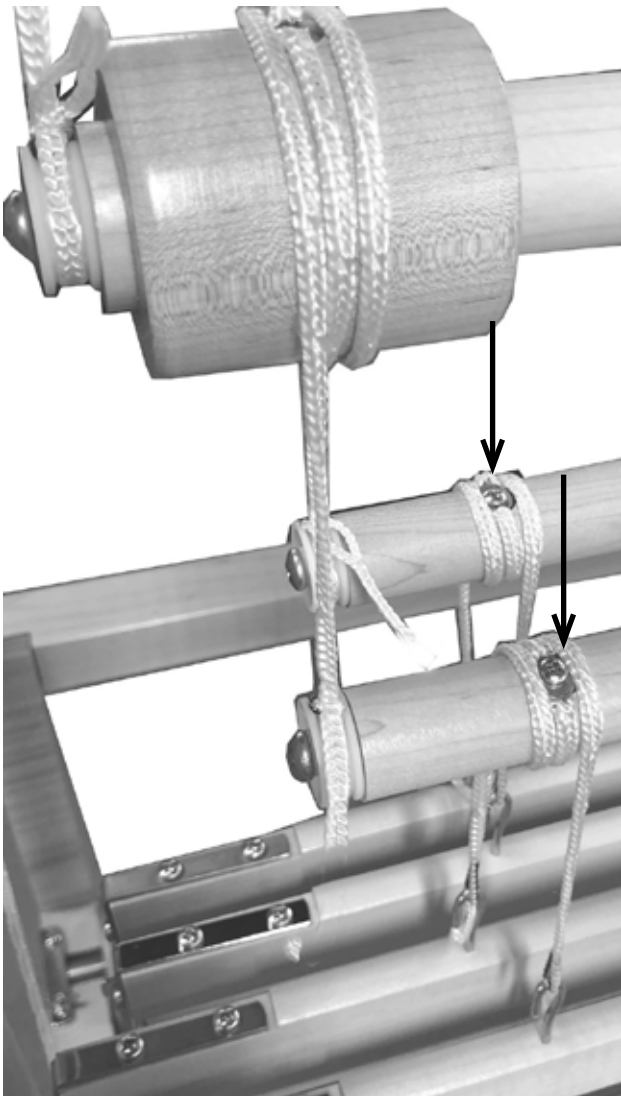
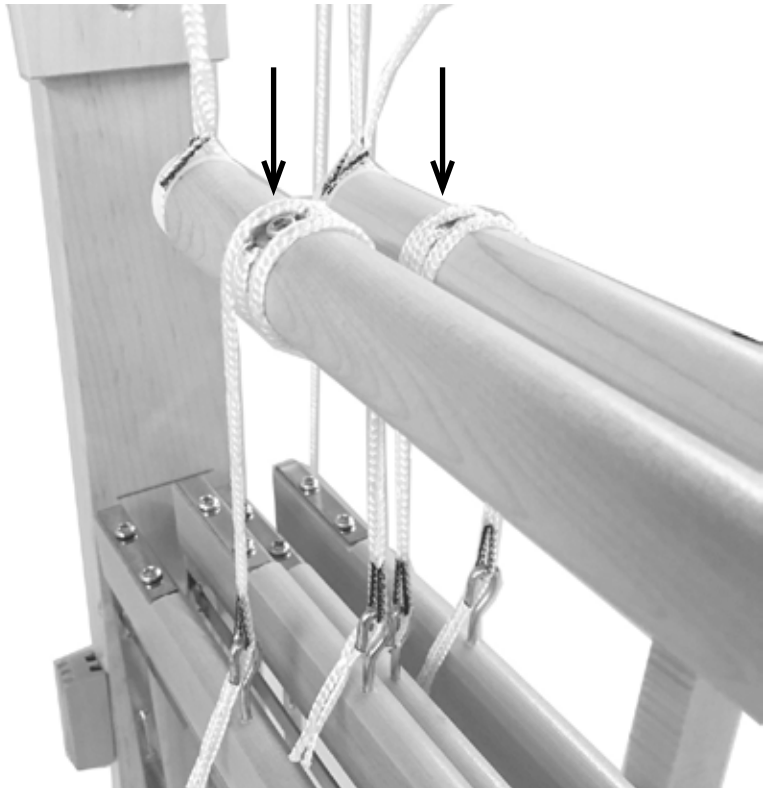
Make sure you have the screws and washers on the top of the center roll. Turn the loop cords around the wooden socket as shown above.

Make a loop at the black mark.



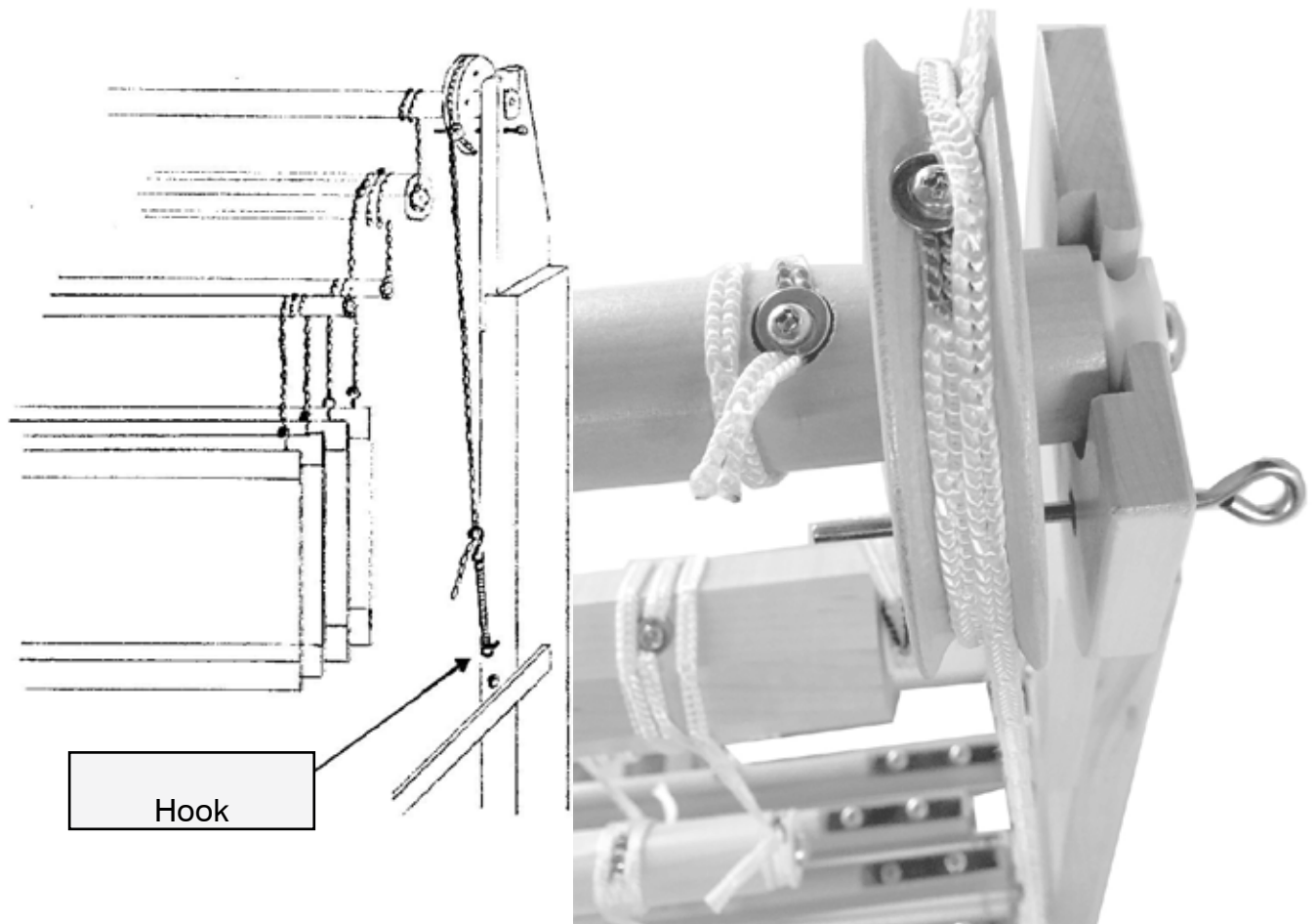
Installed the 2 bottom rollers using the white loops and pulleys.

Make sure you have the screws and washers on top of the bottom rollers. Turn the loop cords around the small rollers as shown.



Install the shaft frames again using the black marks.  
The Leclerc Logo has to be in the upper front of the loom.



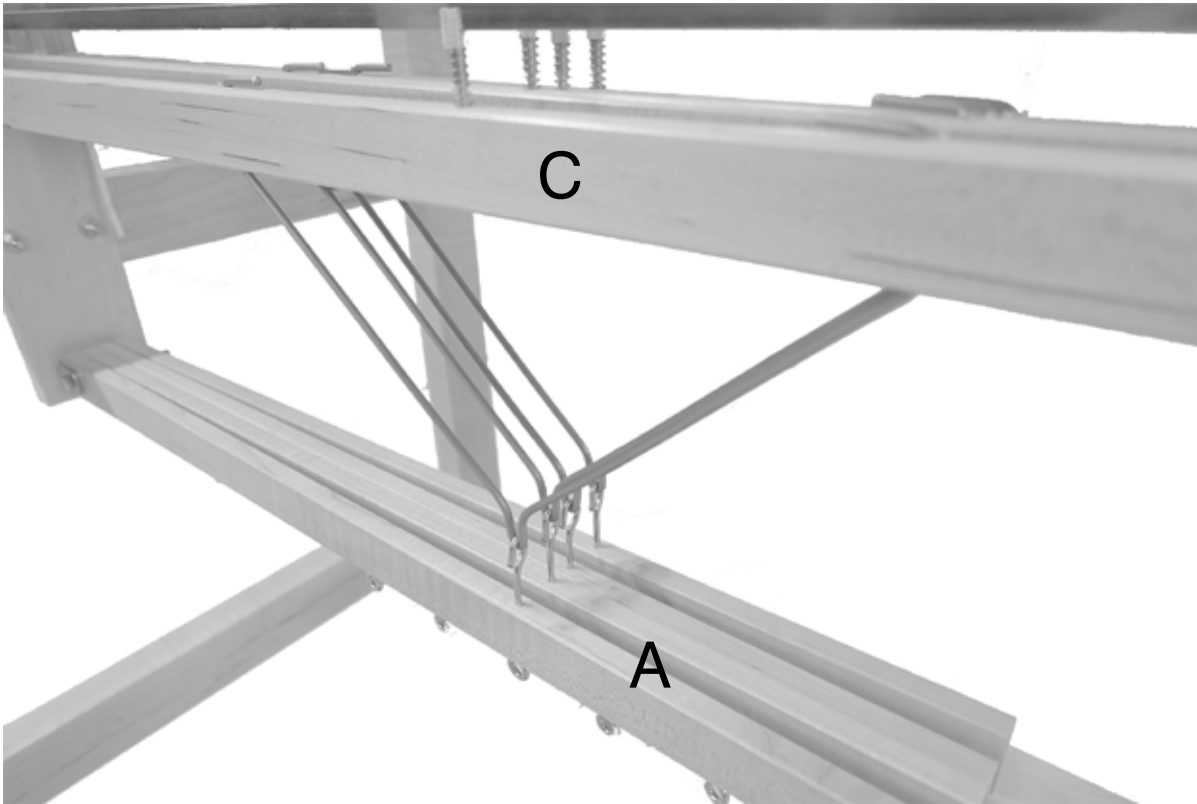


Affix to the pre-drilled hole of the main castle the open-end eye hook.

Turn the loop cord of the Regulator Roller one full turn counterclockwise.

When you weave balance shed, you can lock or keep it unlock the shed regulator in place but you have to adjust the tension on the loop cord so the top of shaft frames are close to the black mark in the side frame.

When you weave unbalance shed, you have to unlock the regulator roller. Connect the loop cord to the S-Hook a location where you will have a decent shed. Unbalance shed cannot have the same size as the balance one.

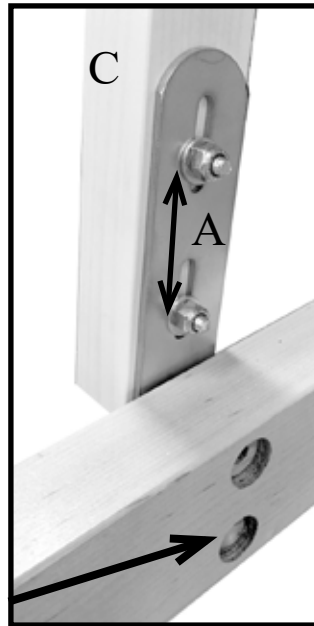


Connect shaft frames C to lams A.

Your loom is now adjusted for a counter- balanced weave. If you wish to treadle one shaft against three, you must engage the shed regulator by removing the metal pin from the pulley.

Adjust the tension on this spring (by inserting the “S” hook in different loop) to obtain the best possible shed.





**NOTE: Hammer the head of the carriage bolt inside the hole**

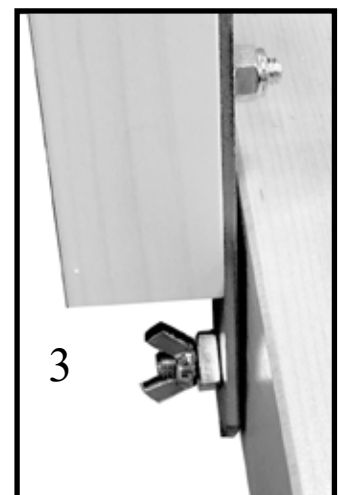
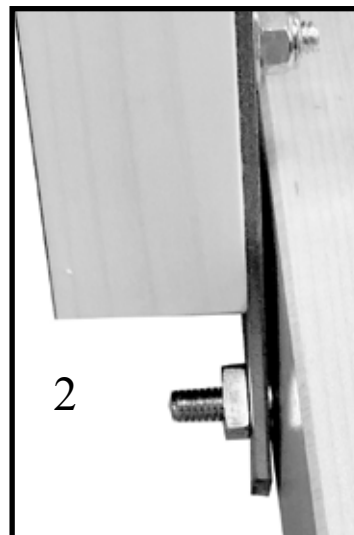
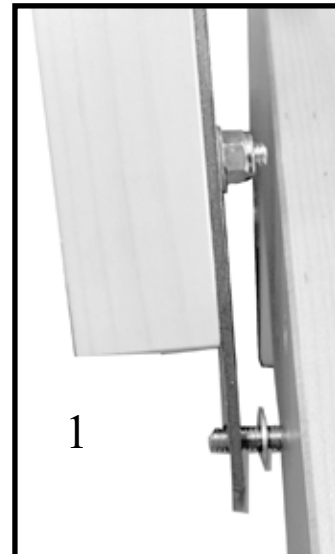
Using 5/16" x 2 1/4" carriage bolts, affix swords to lower front cross-members. Insert the bolt from the inside into the **lower hole**.

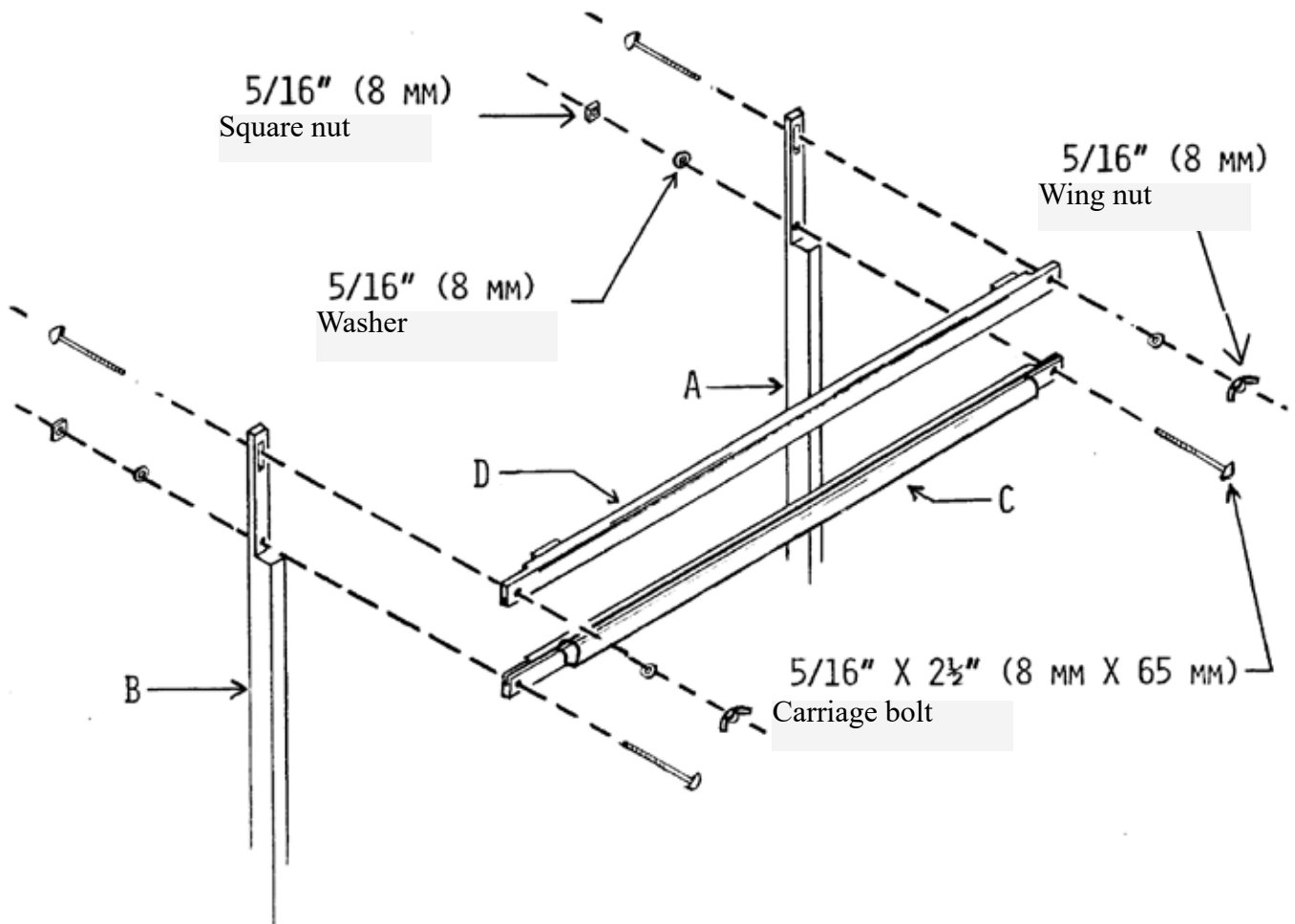
1- Place a 5/16" steel washer between the cross-member and the sword.

2- Hand tight slightly the square nut 5/16"

3- Hand tight tighter the wing nut 5/16"

To adjust the height of the beater, loosen the autolock of the bottom of the sword (A)



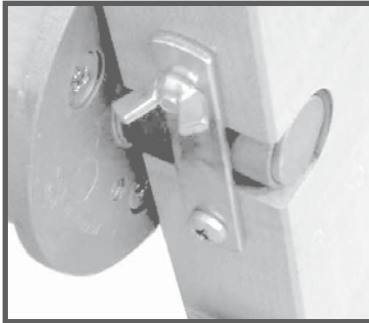
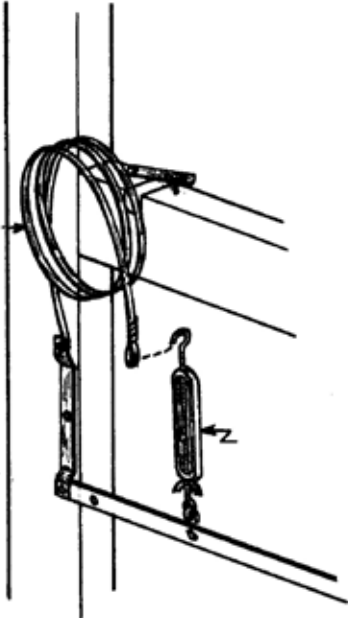


Affix batten sley C (with shuttle race) to the bottom of the batten sword grooves A and B. Insert a 5/16" x 2 1/2" carriage bolt into both ends of batten sley C, then into the hole at the bottom of the sword groove. Complete with the washers and the square nuts.

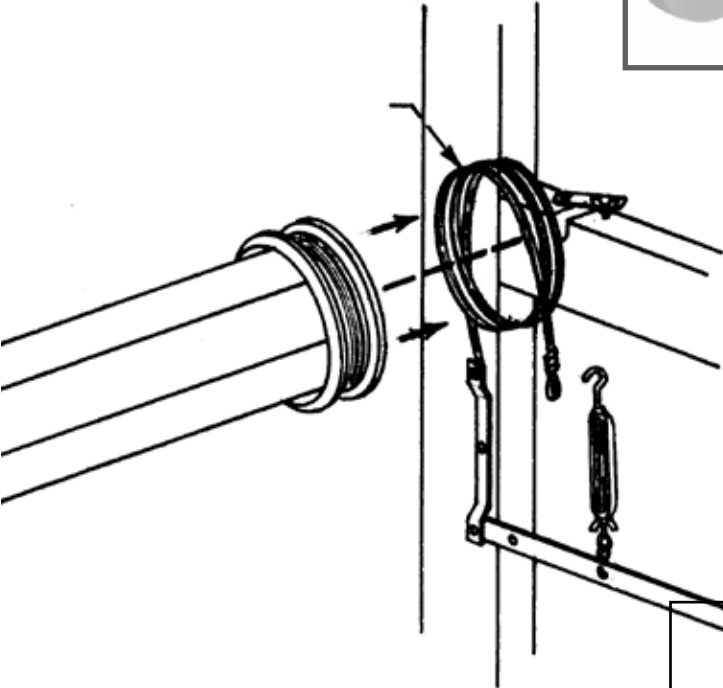
Affix batten handtree D to the slots on top of the sword grooves A and B. Insert a 5/16" x 2 1/2" carriage bolt into both slots of the batten sword, then to the batten handtree. Complete with the washers and the wing nuts.

# WARP BEAM INSTALLATION

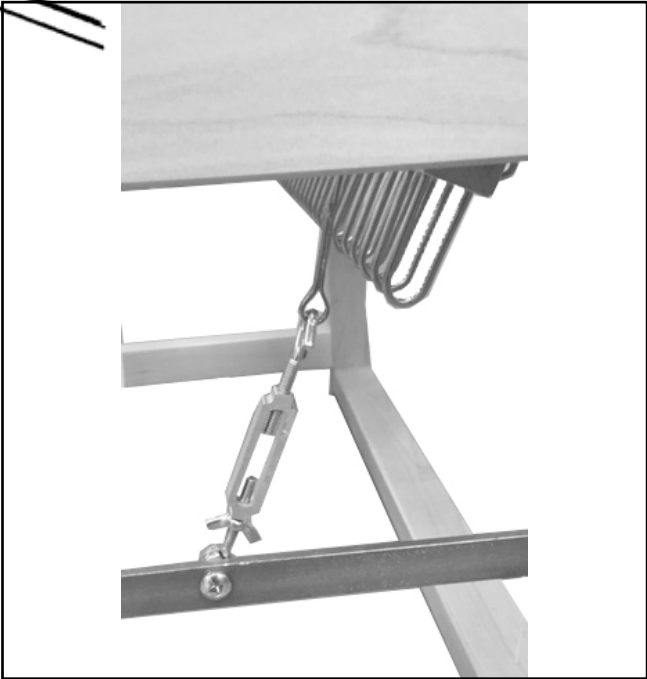
Disconect brake circle A from the turnbuckle.  
Open both latches of the back posts.  
Unhook the turnbuckle 5874-0000 from the brake circle  
**DO NOT UNROLL THE BRAKE CIRCLE.**

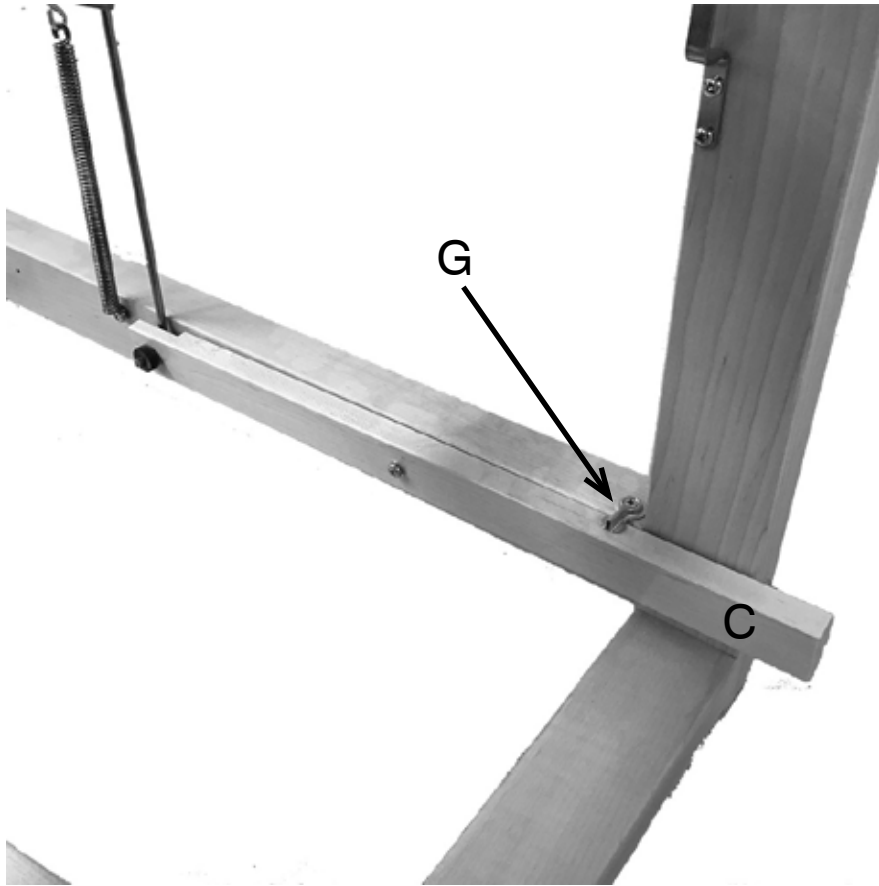


In order to improve the rotation of the warp beam, special bushings are supplied. Make sure to leave them in place when installing the warp beam on the loom.



Insert the brake drum B into the wire brake circle A.  
Then, install the ends of the groove of the back post. Close and secure both latches.

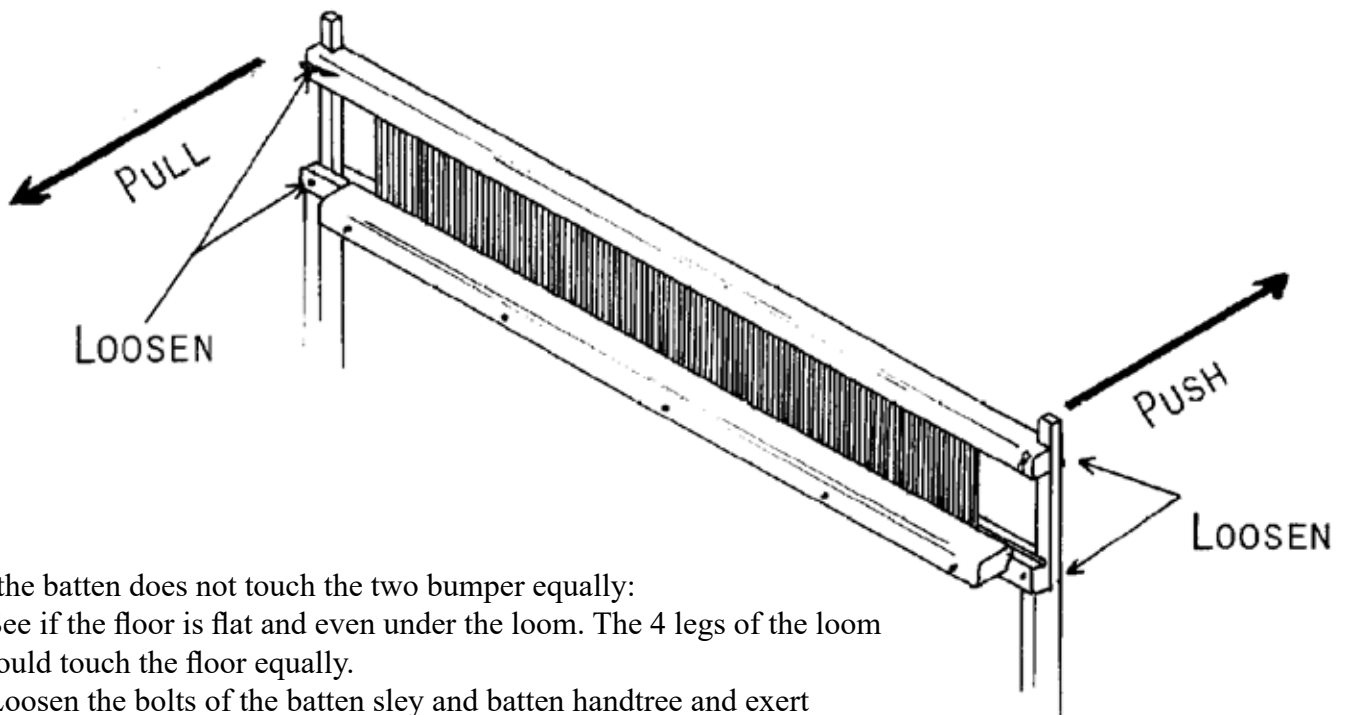
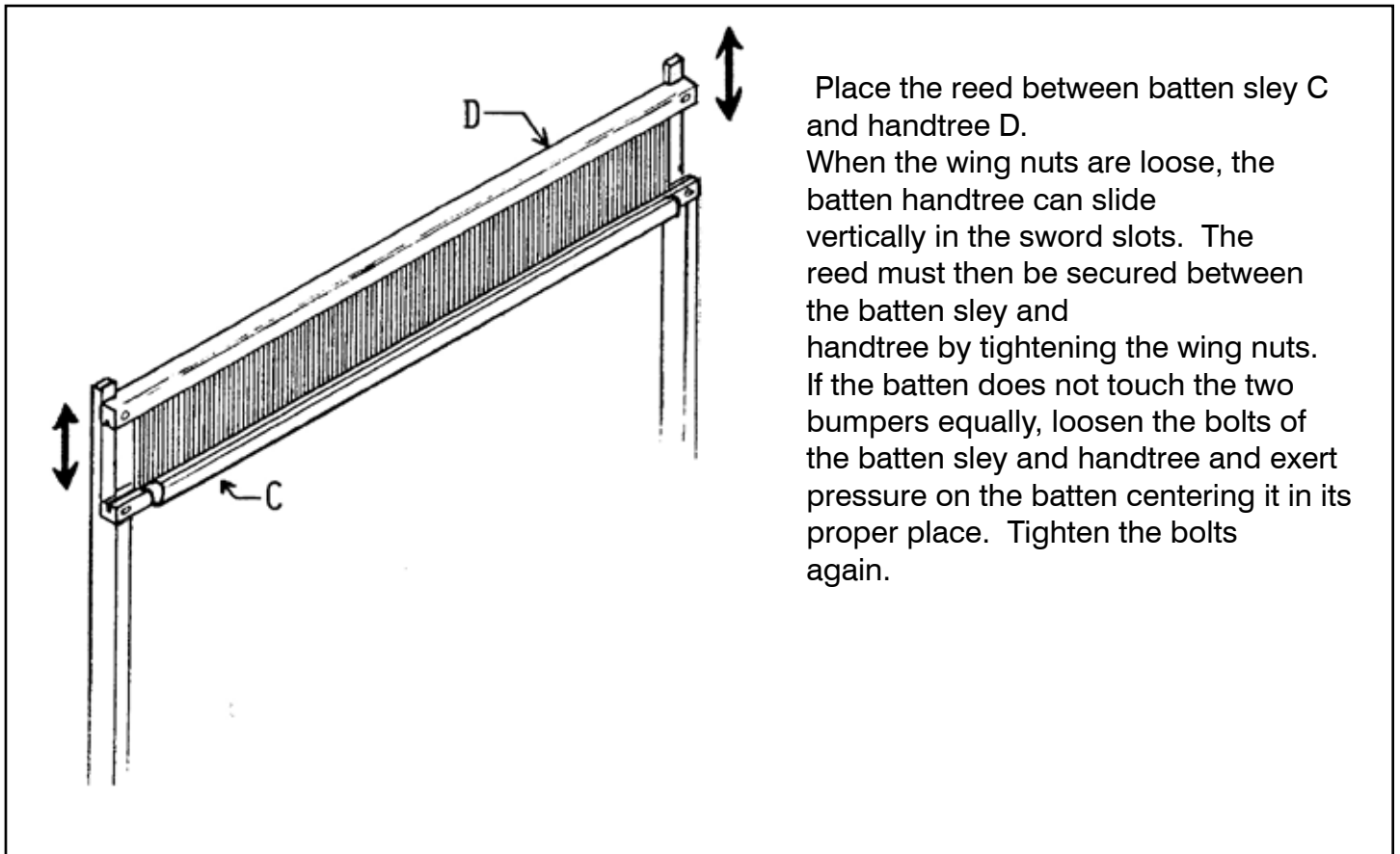




**Warping:**

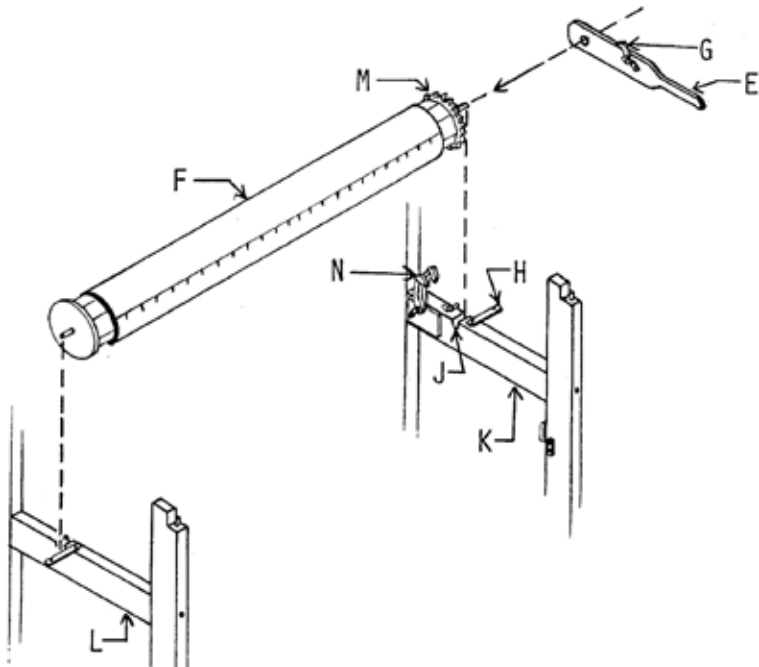
- Lock the brake treadle with latch (G)
- **Reduce the tension on the brake circle as much as possible by unscrewing the turnbuckle.**
- **Use a clockwise rotation**

**Re-adjust the tension on the brake circle before resuming weaving.**



If the batten does not touch the two bumper equally:

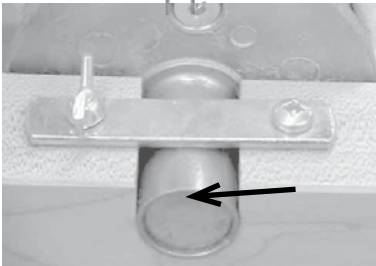
- See if the floor is flat and even under the loom. The 4 legs of the loom should touch the floor equally.
- Loosen the bolts of the batten sley and batten handtree and exert pressure on the batten centering it in its proper place. Tighten the bolts again while keeping pressure in the batten.straight.



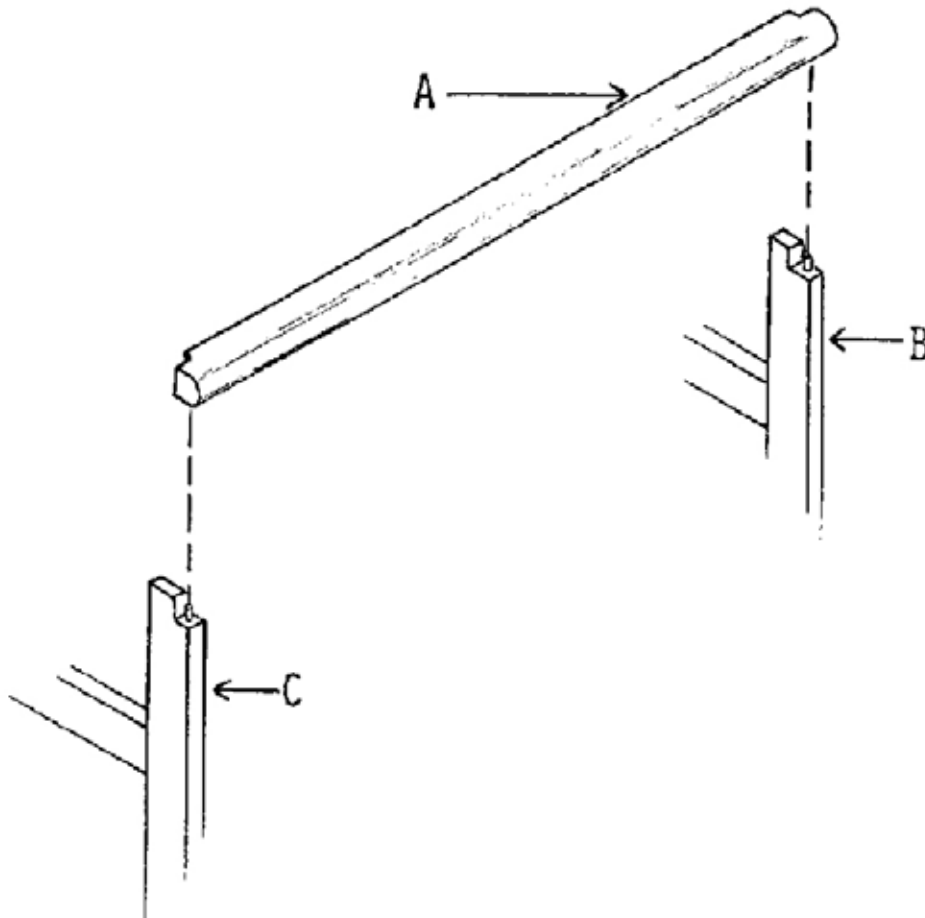
Install take-up motion handle E on the axle end of cloth beam F (on the same side as the ratchet gear). Ratchet pawl G of the take-up motion handle must be lifted up.

Open beam latches H and place the beam ends in the slots J of the upper side cross- members K and L.

Note: Ratchet gear M must be on the right-hand side and ratchet pawls N must be lifted up.



In order to improve the rotation of the cloth beam, special bushings are supplied. Make sure to leave them in place when installing the cloth beam on the loom.



Affix one of the breast beams A on the top of the front posts B and C.

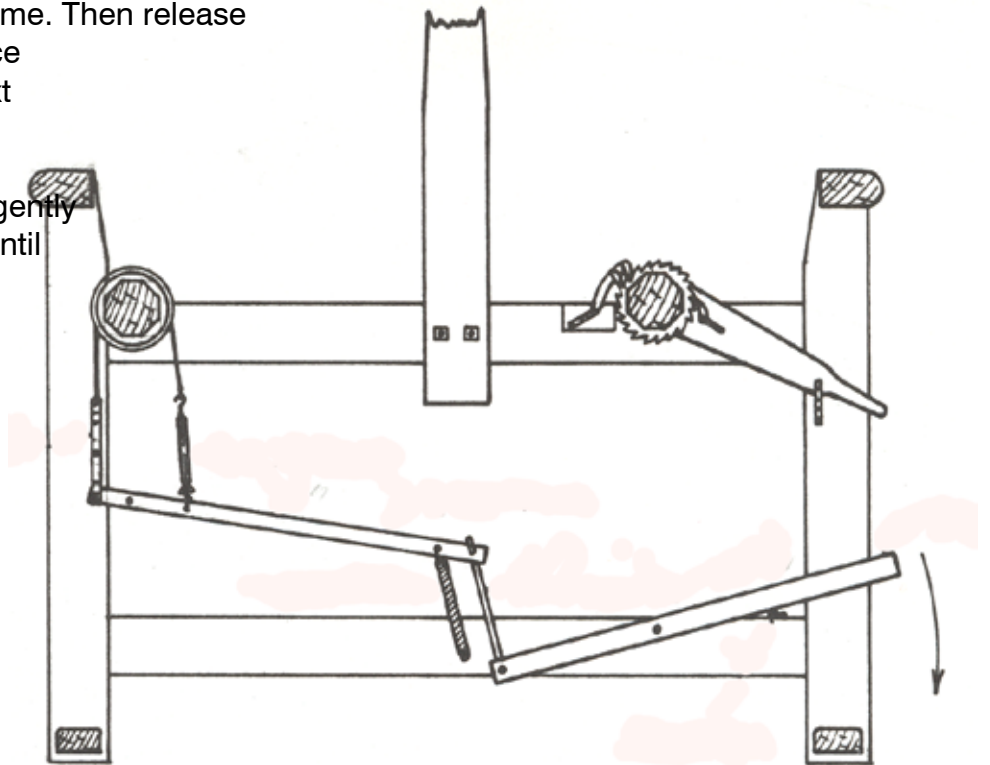
Affix the other breast beam on top of the back posts.

NOTE: To avoid splitting the front posts, slightly insert the breast beam onto the metal pin. Be sure that it is in the right position before inserting it completely.

## WEAVING:

To advance the warp, depress brake treadle C and turn cloth beam H at the same time. Then release brake treadle C and advance the cloth beam until the next notch in the ratchet gear is reached.

If this is too much tension, gently depress the brake treadle until the desired tension is obtained.



### Note while winding a warp with a Leclerc Friction Brake

To maintain proper adjustment and operation of your Friction Brake, it is recommended that the Brake be disengaged while winding the Warp.

On those looms designed with a Treadle or Lever Lock, the Brake should be locked open when winding.

### MORE INFORMATION:

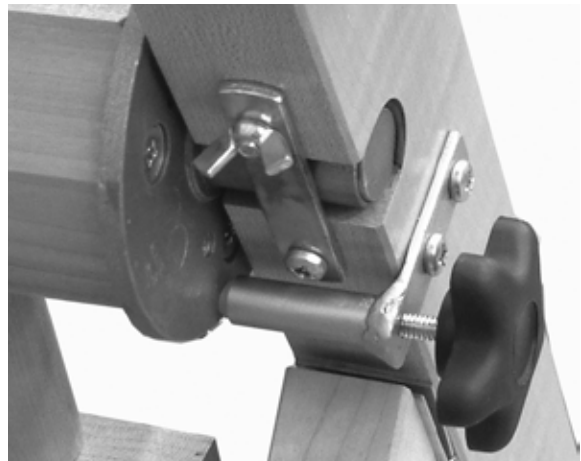
See "WARP AND WEAVE"

Install the Warp beam advance control system. This system will eliminate excessive warp yarn advance when releasing the brake system at cloth take-up.

This friction system is adjustable and **has to be released when winding the warp on.**

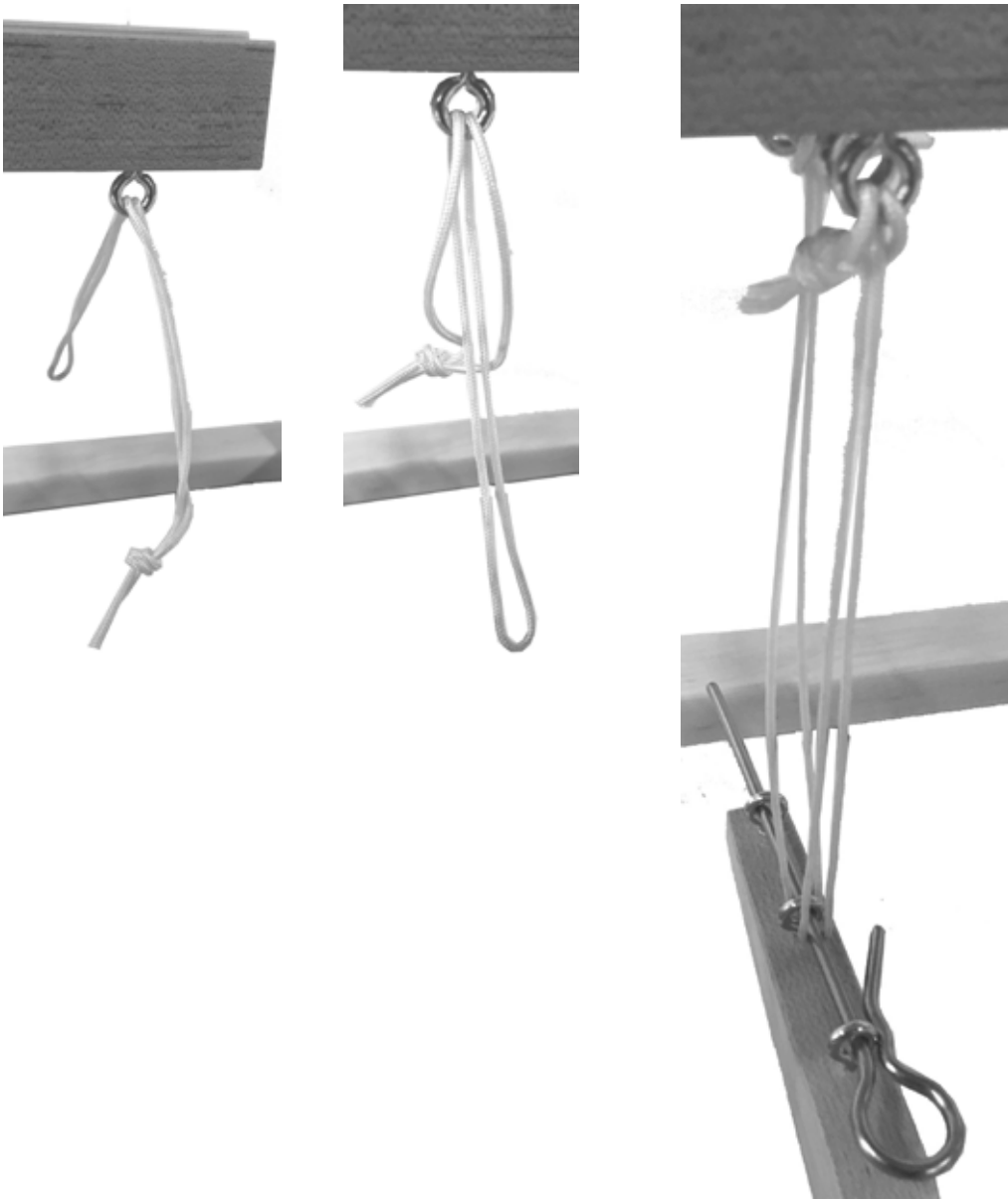
Just screw the handle in to increase the friction or unscrew it to release.

Affix it to the back left side of the loom using 2 round head screws no 12 - 1" to the pre-drill holes.

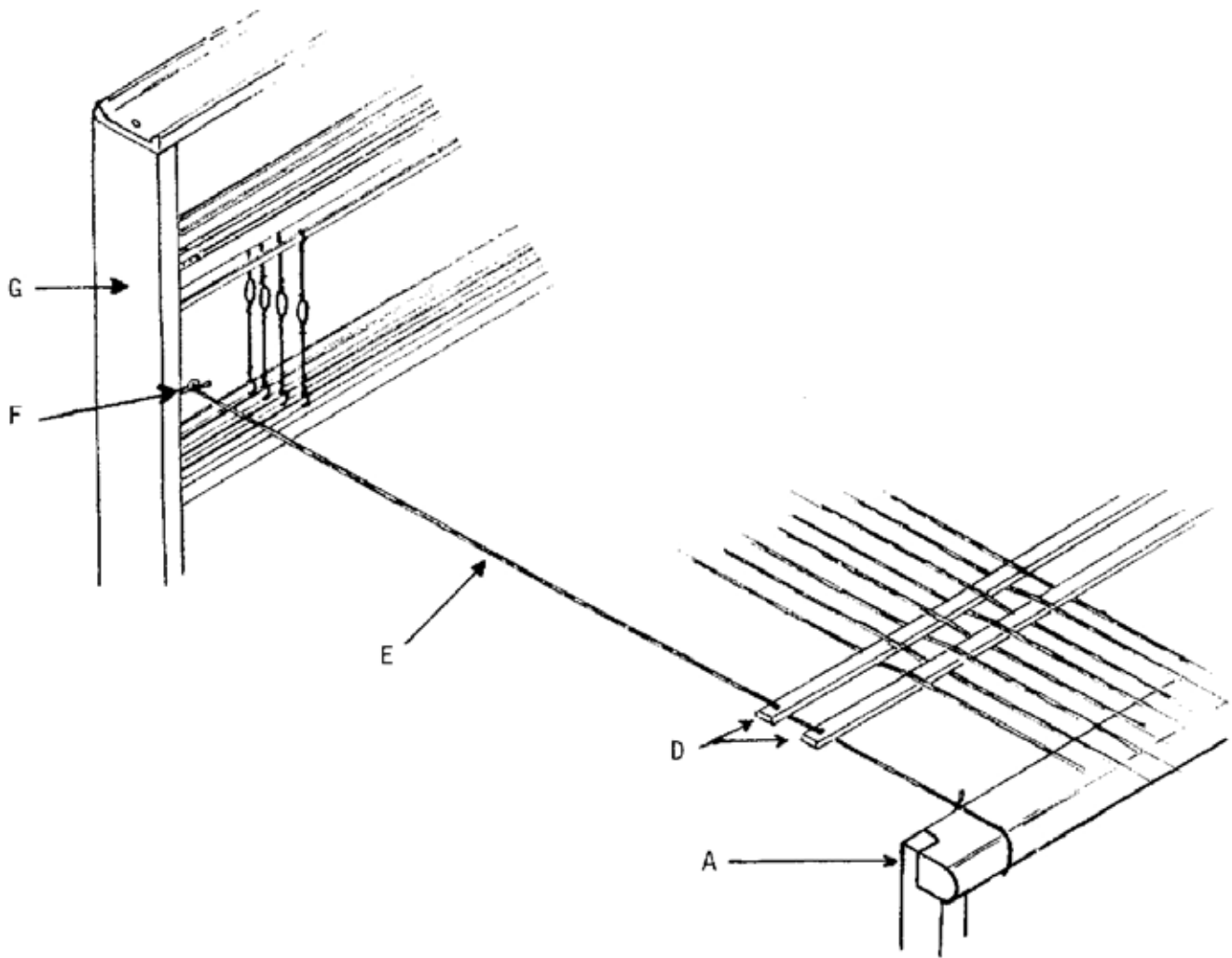


## FIRST TIE-UP

Refer to the book "Warp & Weave"  
supplied with the loom.



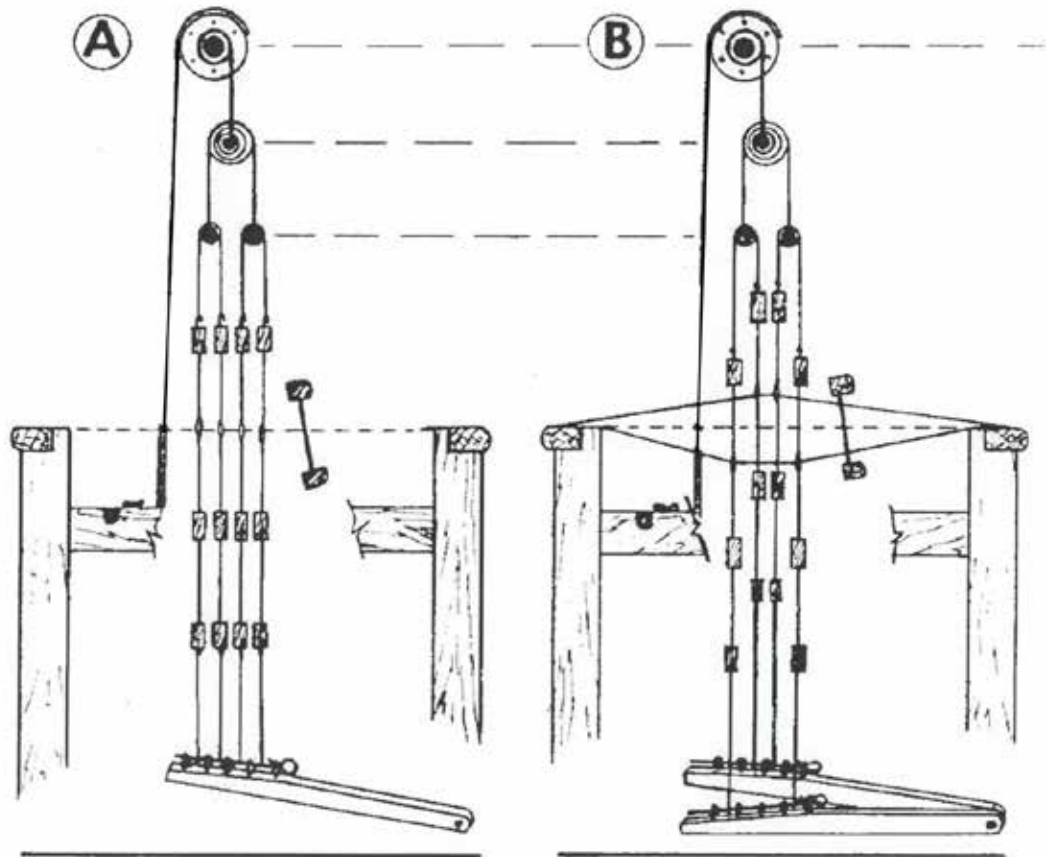




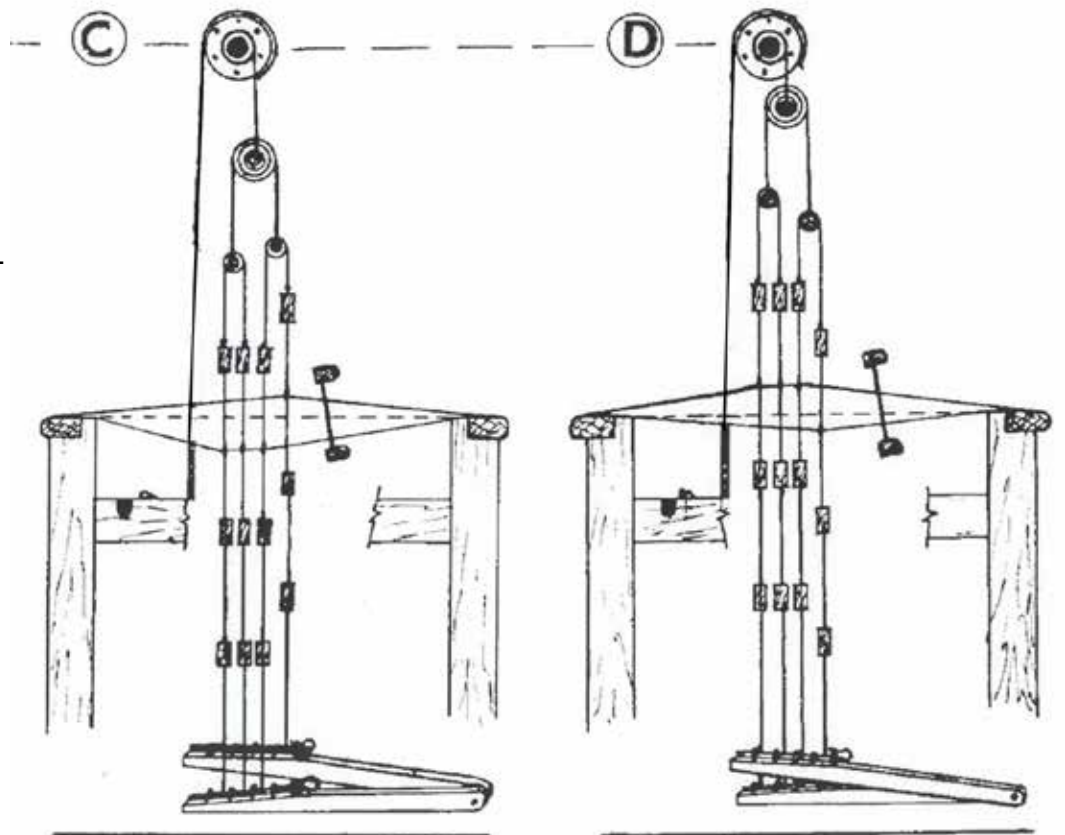
Affix screw eyes F to the holes inside middle posts G.

Pass a string C through the holes at each side of the lease sticks D and tie them to the screw eyes and to the thread beam A. The lease sticks will be held at the right height and distance for easy threading.

A) & B) When the shed regulator is not needed, (even shed) lock the pulleys with the metal pin. To have a nice shed, lock the pin so the warp threads pass app. at the center of the reed when the shed is closed.

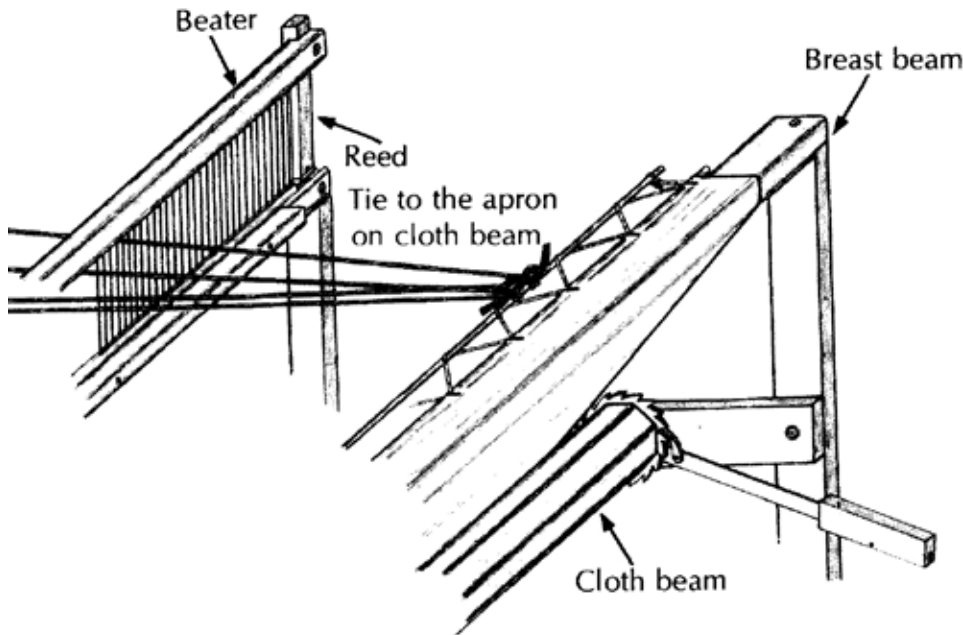


C) & D) Remove the metal pin to weave an un-even shed or to weave with very high tension on the warp. Adjust the length of the spring loop cord so the shed is maximized with all tie-ups of the pattern.



If the loom is equipped with a sectional warp beam, affix the rake-like pieces (following the instructions supplied with the sectional warp beam) and do the following instructions on the cloth beam only.

If the loom is not equipped with a sectional warp beam, affix the apron to the warp beam with tacks and do the following procedures on the warp and cloth beams.



Insert a warp rod into the apron border.

For 27", 36" and 45" loom  
(70cm, 90cm and 115cm)

For 60" loom  
(150cm)

Cut the 5 yard (4.5m) cord in half.  
Use one half of the cord to lace the apron warp rod to a second warp rod. This second warp rod will be used to attach warp threads.

Use a 5 yard (4.5m) cord to lace the apron warp rod to a second warp rod. This second warp rod will be used to attach warp threads.

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

**HAPPY WEAVING**