

NILUS II COUNTER-BALANCED



36"	1026-0000
45"	1027-0000
60"	1028-0000

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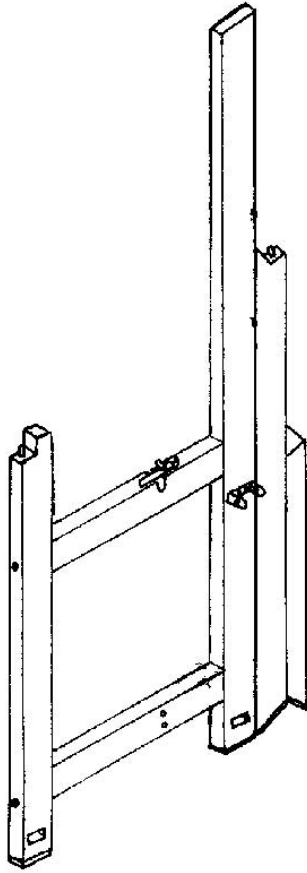
On receiving the loom, unpack and lay out the loom components.
Do NOT discard any packing material until all parts are inventoried.

Check the parts received against the parts list on pages #2 to #7 of the assembly instructions. Report any discrepancies to Leclerc immediately.

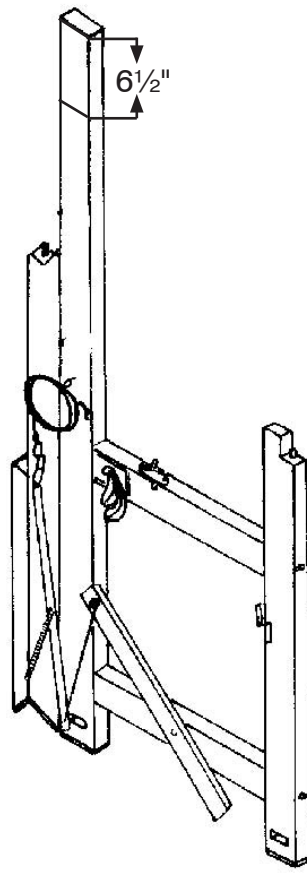
To assemble this loom, a minimum of 2 people are needed but it is recommended you use 3.

Loom Prepared by: _____
Inspected by: _____
Date: _____

PARTS LIST



1 Left-hand side



1 Right-hand side

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.

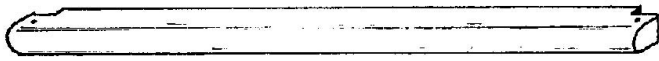
2) Faire les trous pour le frein d'ensouple

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

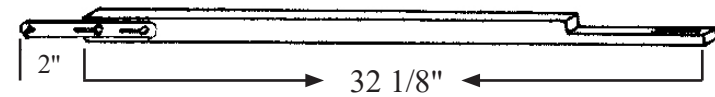
1 Warp beam advance control system

2 Screw no 12, 1"

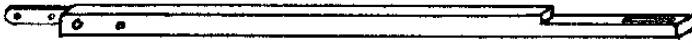




2 Breast beams
(43 1/2", 52 5/8", 68 1/8")

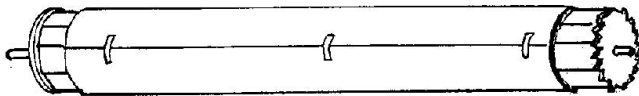


1 Left sword (34 1/8")



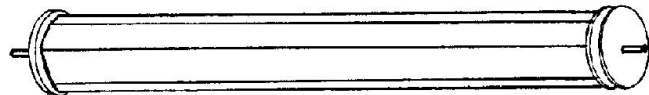
1 Right sword (34 5/8")

Vérifier que les bagues entrent bien dans les pattes et traverses

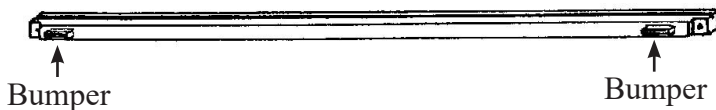


1 Cloth (front) beam
(38 1/2", 47 5/8", 62 9/16")

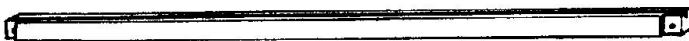
Avec Bagues (Bushings)



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")

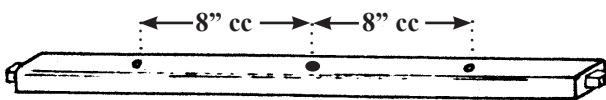


1 Batten sley with shuttle race
(46 3/4", 55 3/4", 70 3/4")

No holes across

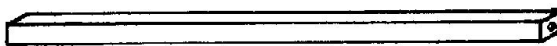


1 Lower-middle cross-member
(40 1/8", 49", 64")

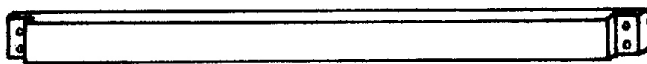


3 holes for treadle set
(5/16" drill bit)

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



1 Cross-board connecting the back posts
(34 1/2", 52 5/8", 67 1/4")



1 Cross-member connecting the stabilizing posts
(43 5/16", 52 5/16", 67 5/16")



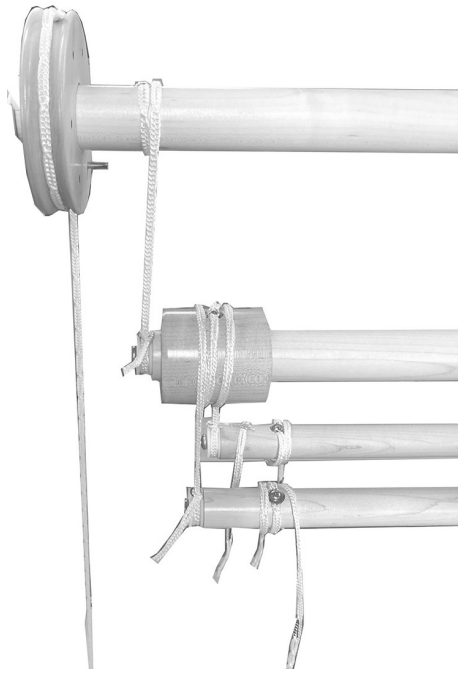
1 apron

LECLERC NOTE:

Avec la rondelle de bois si nécessaire



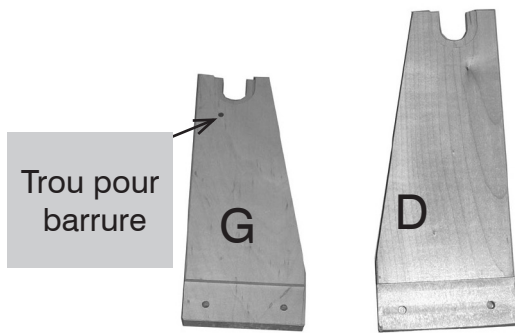
1 Cloth take-up motion handle



1 shed regulator roller

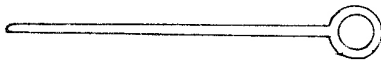
1 Middle roller

2 small rollers with white pulleys



1 left roller support (G) (with hole for the pin)

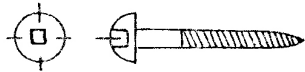
1 right roller (D) support



1 metal pin to lock shed reg. roller



1 open eyehook



4 round-headed screws No 12, 1½"



* 1 screw round head no 6, 5/8"

* 8 screw round head no 8, 3/4"

* 9 washers 1/8"



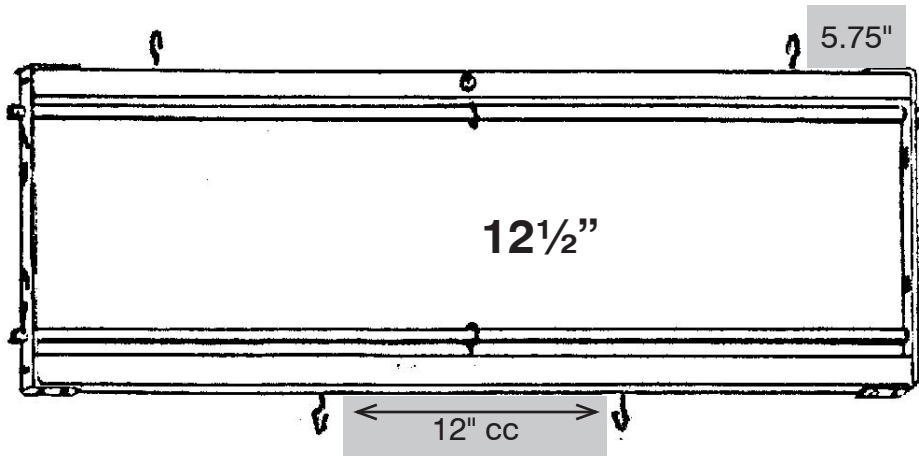
* = Installed



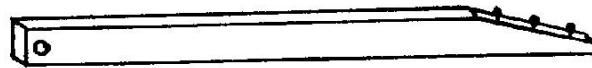
5.5" + Crochet en "S"

1 shed regulator spring

PARTS LIST



4 shaft frames



6 treadles (25 1/2")



3 treadle set supports



1 (18") treadle set rod with
1 Push nut 7/16"

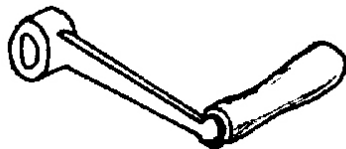


+2 more
treadle set push nut 7/16"

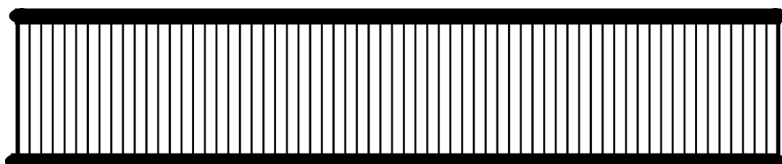


36" = 27 5/8" L
45" = 32 1/8" L
60" = 39 5/8" L
cc holes = 2 3/4"

4 lams



1 crank



1 reed



2 lease sticks



4 warp rods 5/16"
+ 2x 7/16" for narrow fabric

PARTS LIST



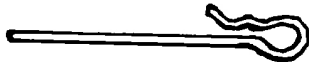
3 screwdrivers (Black, Red and Green)



1 wrench 7/16"



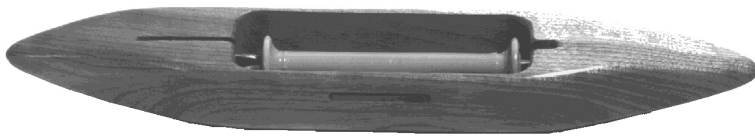
1 adjustable wrench



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



1 sets of 12 treadle cords 9" # 3000-7011



1 boat shuttle



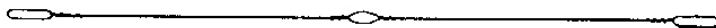
12 plastic bobbins



1 threading hook



2 pkg of cords (5 yds each)



12½"

1000 heddles (36" loom)

1200 heddles (45" loom)

1500 heddles (60" loom)



* 2 loop cords 17" Shed Regulator roller

* 2 loop cords 34" Middle roller

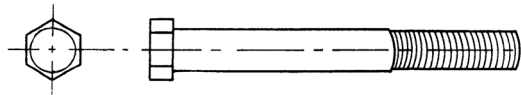
* 4 loop cords 21" Shaft frame

* 1 loop cord 49" Shed regulator

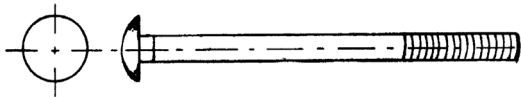
4 loop cord 20" under shafts

* = Installed

PARTS LIST



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



Carriage Bolts
 4 X - 5/16 x 2 1/2" (8 mm x 65 mm)
 3 X - 5/16" x 4" (8mm x 10 cm)
 4 X - 1/4" x 2 1/2" (6mm x 56mm)
 2 X - 5/16" x 2 1/4" (8mm x 89mm)



Washers
 9 X - 5/16"
 4 X - 9/16"
 4 X - 3/8"

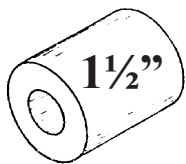


SQUARE NUTS
 4 X - 3/8"
 7 X - 5/16"
 1 X - 1/4"



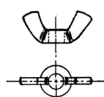
Hexagonal Nuts

1 X Nylon auto lock 1/4"



Wooden spacer
 4 X

3 X Nylon spacers



Wing nuts
 7 X - 5/16" (8 mm)
 4 X - 1/4" (6mm)

2 X White nylon washers



Round head screw
 4 X - #12 x 1 1/2"
 4 X - #14 x 3"



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

<https://vimeo.com/670253023/c4a175f7b8>



2 X eye screws

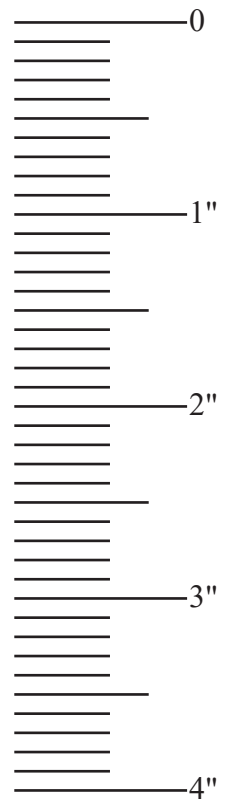
WARP AND WEAVE
ROBERT LECLERC

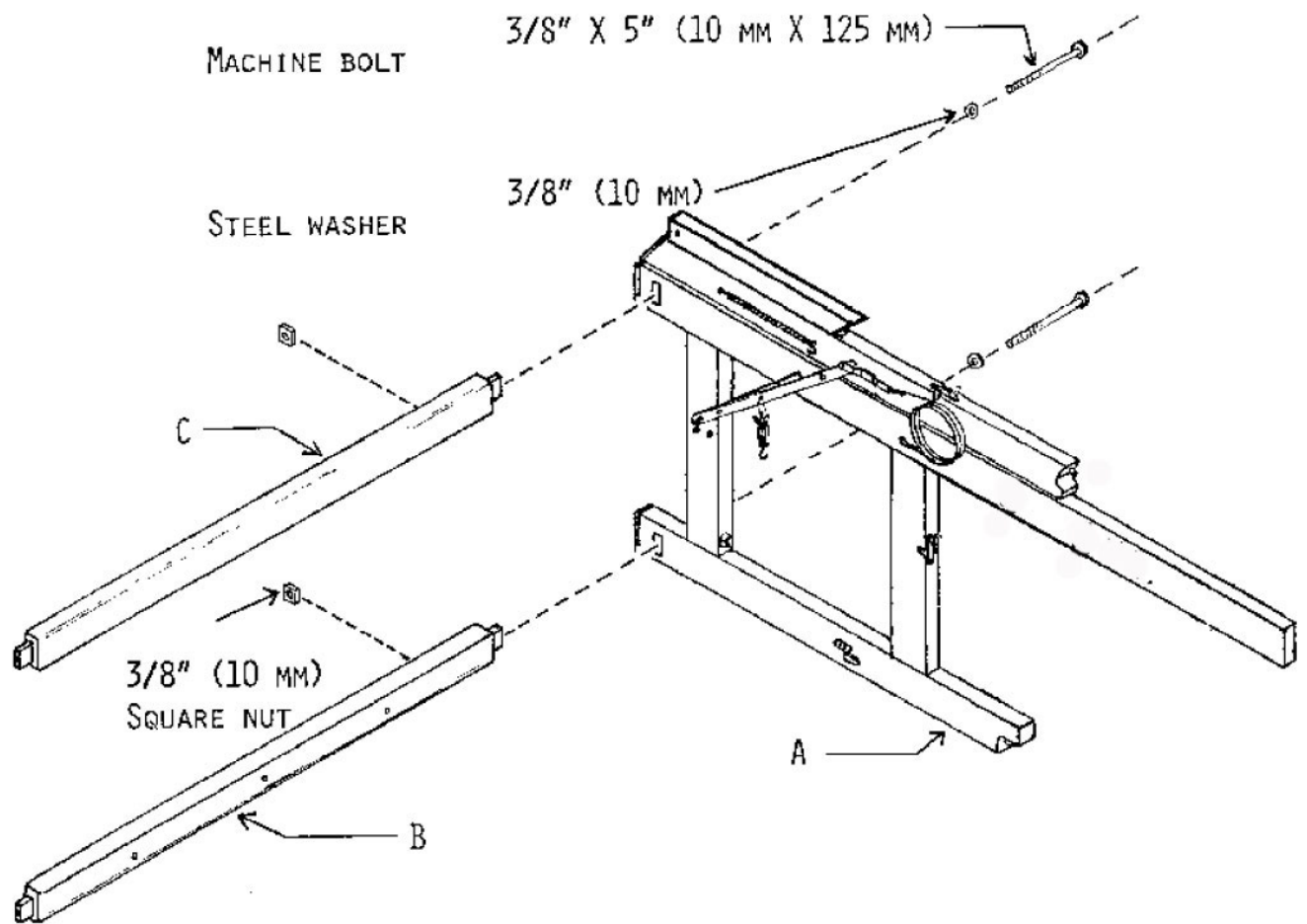


1 book Warp & Weave



Tacks for canvas





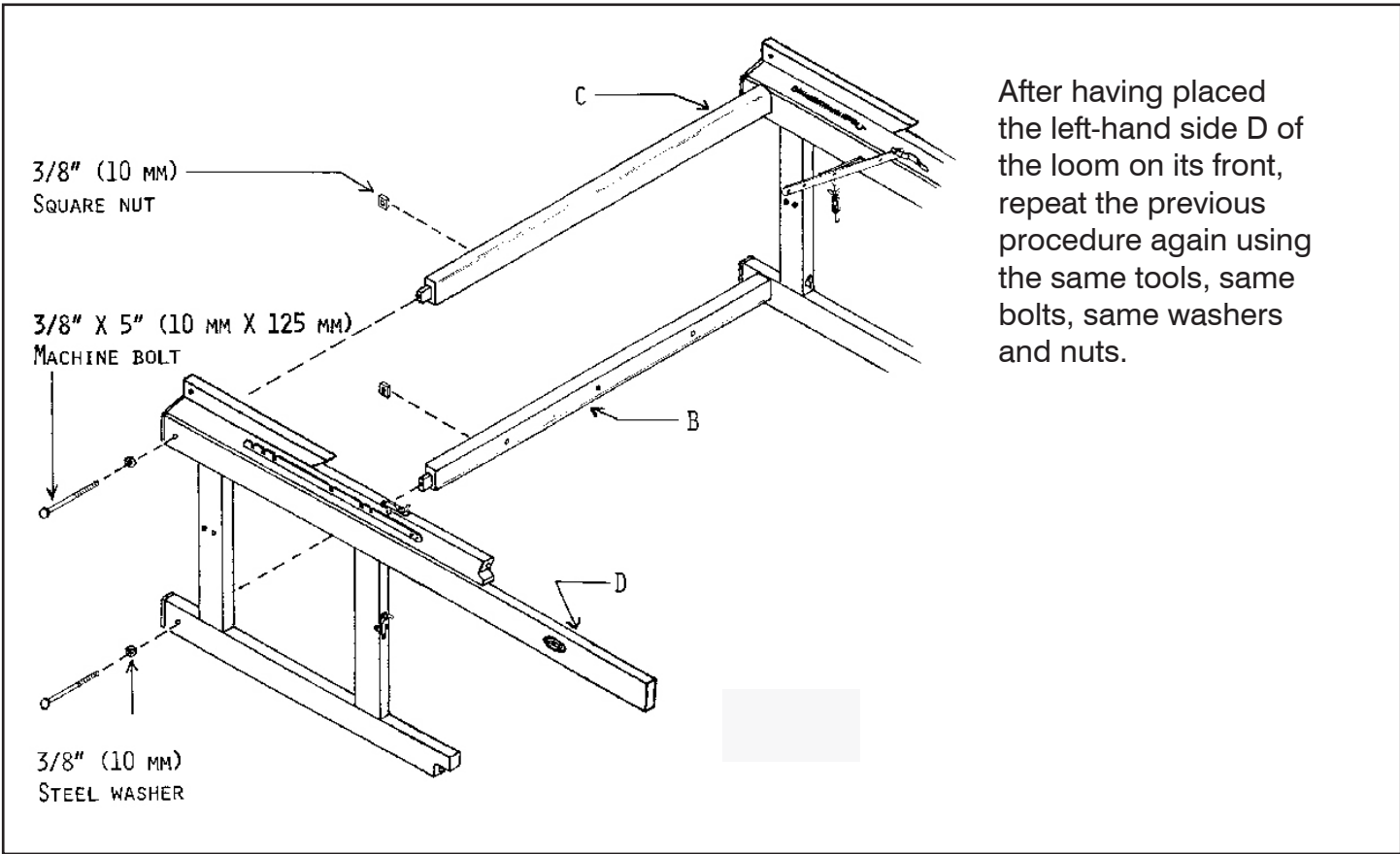
Place right-hand side A of the loom on its front.

Insert the tenon of lower front cross-member B into the lower front mortise of right-hand side A.
 NOTE: The lower front cross-member has 3 holes drilled through it.

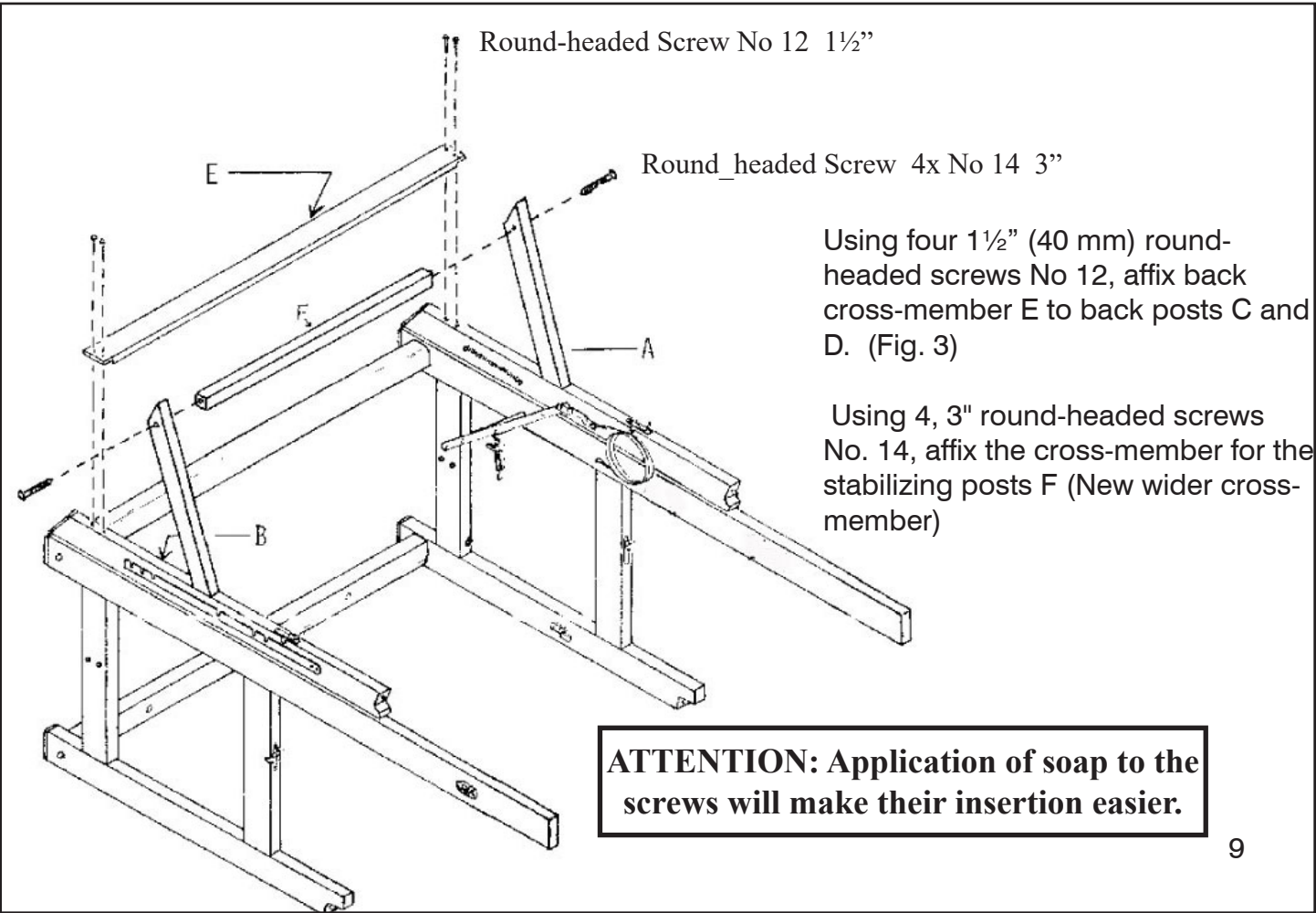
Using the wrench supplied with the loom, affix cross-member B with a 3/8" X 5" (10 mm X 125 mm) machine bolt, a 3/8" (10 mm) steel washer, and a square nut.

Insert a tenon of lower back cross-member C into the lower back mortise of right-hand side A.
 NOTE: The lower back cross-member C has 2 holes drilled through it.

Affix cross-member C with a 3/8" X 5" (10 mm X 125 mm) machine bolt, a 3/8" (10 mm) steel washer, and a square nut



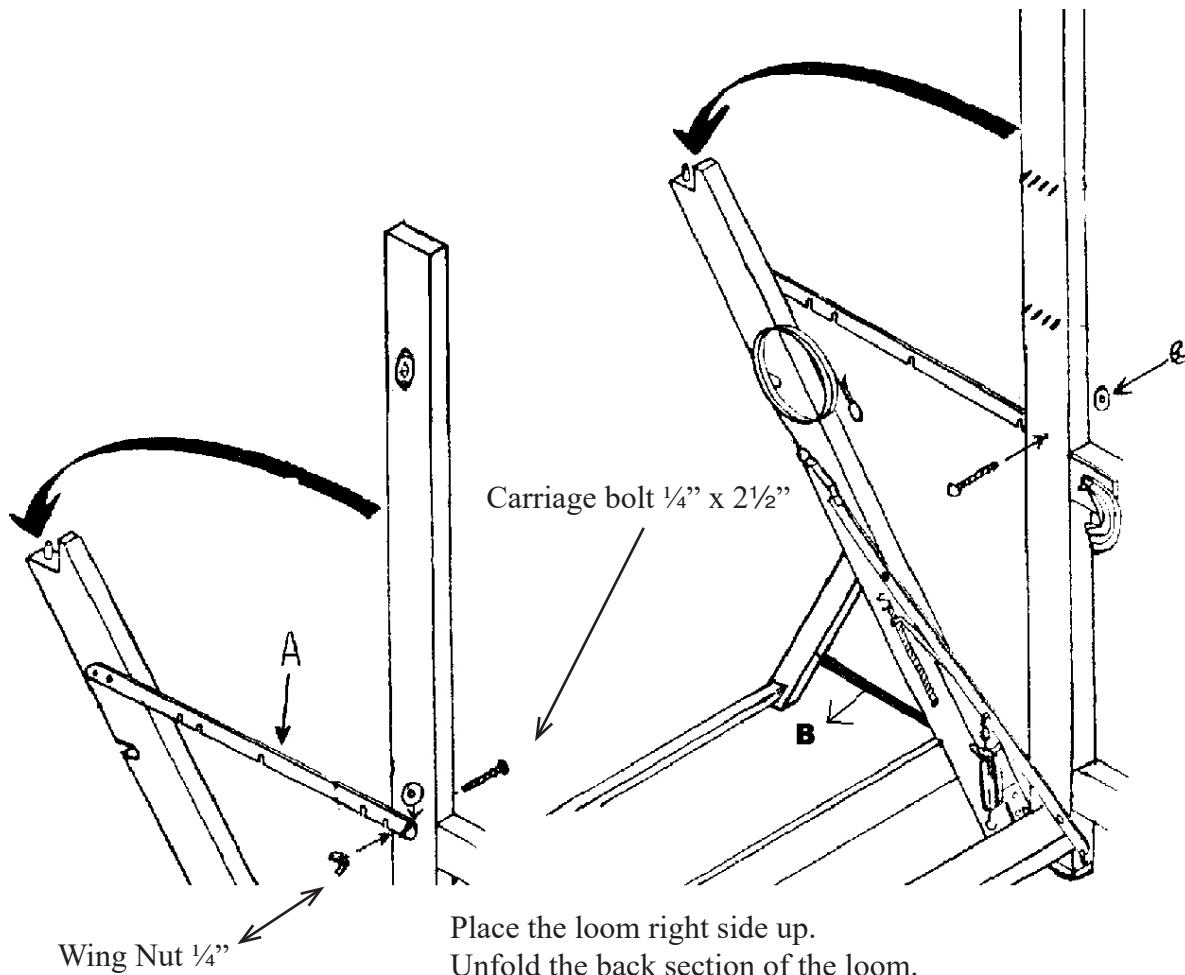
After having placed the left-hand side D of the loom on its front, repeat the previous procedure again using the same tools, same bolts, same washers and nuts.



Using four 1 1/2" (40 mm) round-headed screws No 12, affix back cross-member E to back posts C and D. (Fig. 3)

Using 4, 3" round-headed screws No. 14, affix the cross-member for the stabilizing posts F (New wider cross-member)

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



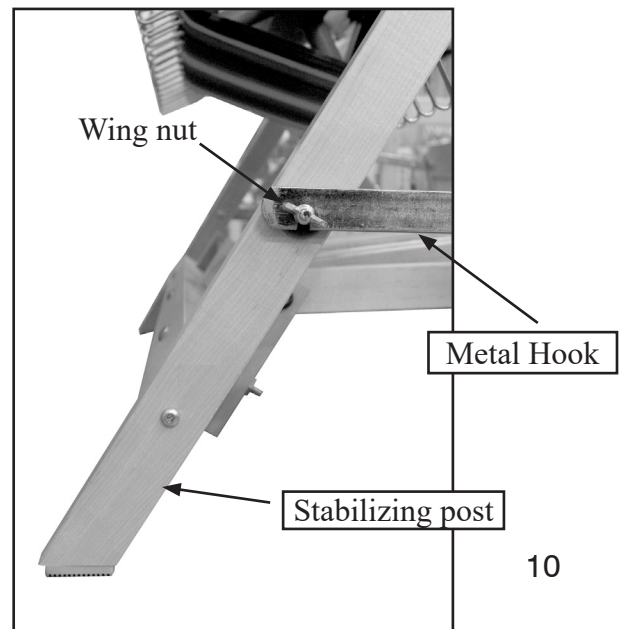
Place the loom right side up.
 Unfold the back section of the loom.

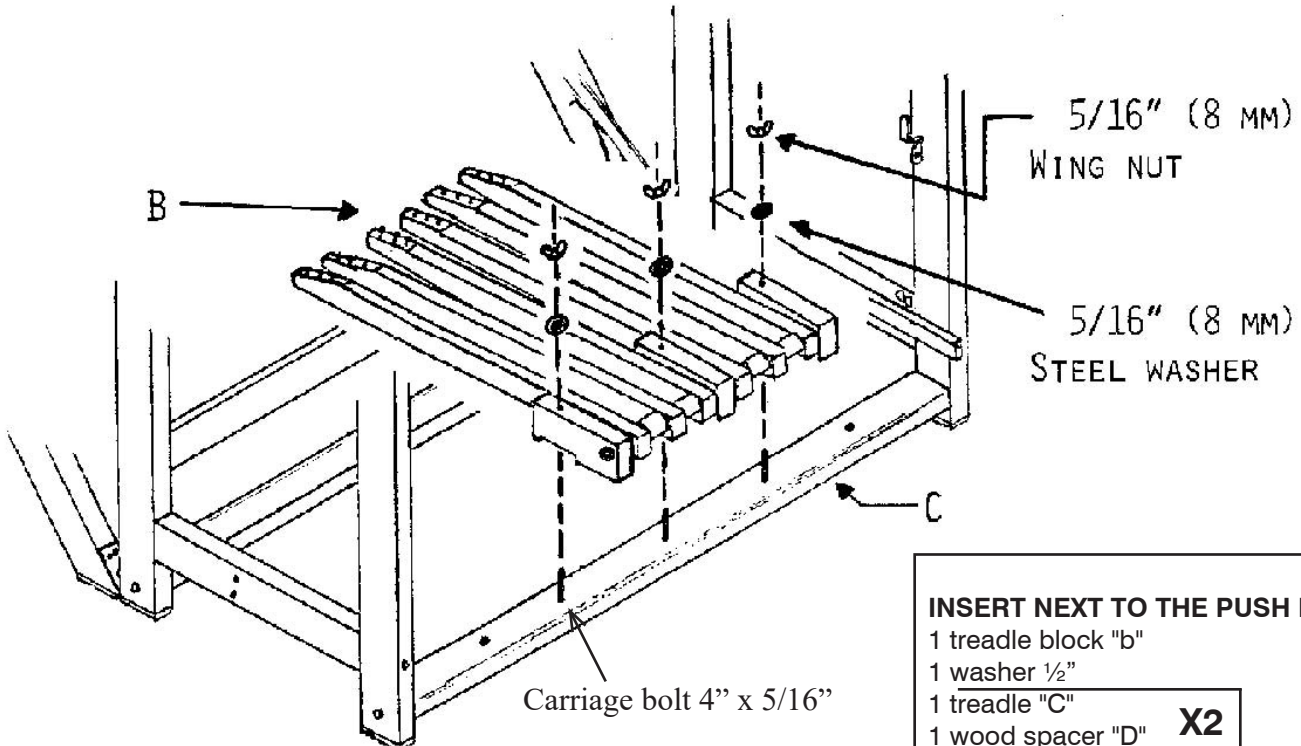
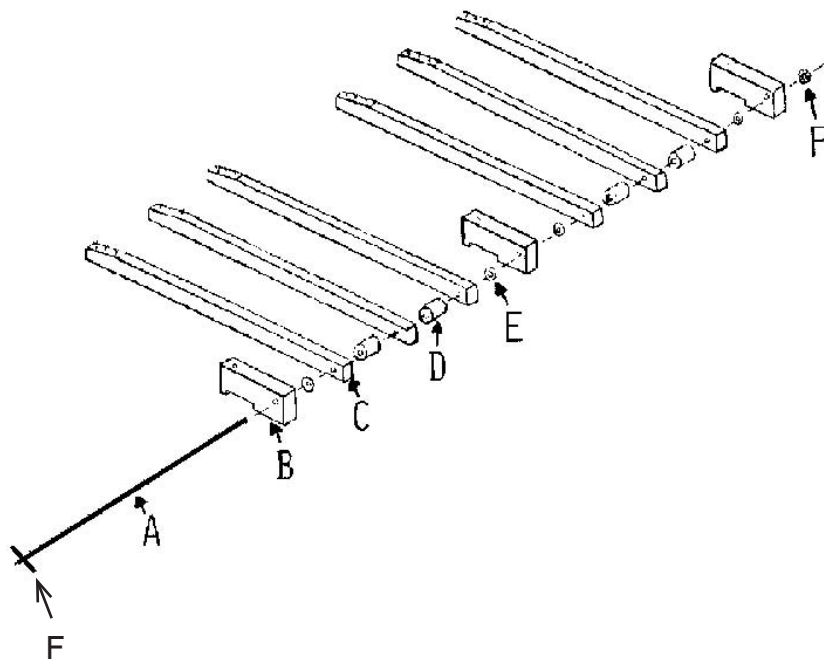
Insert a $\frac{1}{4}$ " x $2\frac{1}{2}$ " carriage bolt into the holes of the uprights. The nylon washer is already installed in the upright. Affix the $\frac{1}{4}$ " wing nuts.

Lock it in place with metal hooks A at the last notch.

Insert a $\frac{1}{4}$ " X $2\frac{1}{2}$ " carriage bolt into the holes of the stabilizing posts (inside to outside). The nylon washer is already installed in the posts. Affix the $\frac{1}{4}$ " wing nuts.

Unfold the back section of the loom and lock it in place with metal hooks B.





Assemble the treadle set as illustrated.

If you do not want to have the wing nuts on the top of the treadle set, insert the carriage bolts 4" x 5/16" (from the top) into the treadle set supports and the treadle cross-member.

Affix them using 3 x 5/16" square nuts and 3 x 5/16" steel washers.

For more information see the Video.

- | | |
|---|-----------|
| INSERT NEXT TO THE PUSH NUT "F": | |
| 1 treadle block "b" | |
| 1 washer 1/2" | |
| 1 treadle "C" | |
| 1 wood spacer "D" | X2 |
| 1 treadle | |
| 1 washer 1/2" | |
| 1 treadle block | |
| 1 washer 1/2" | |
| 1 treadle | |
| 1 wood spacer | X2 |
| 1 treadle | |
| 1 washer 1/2" | |
| 1 treadle block | |
| 1 PUSH NUT "F" | |

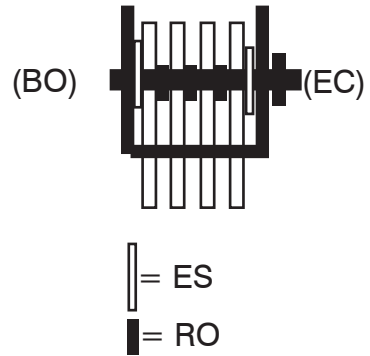
NOTE: Install the second side push nut only after the set is affixed to the loom.

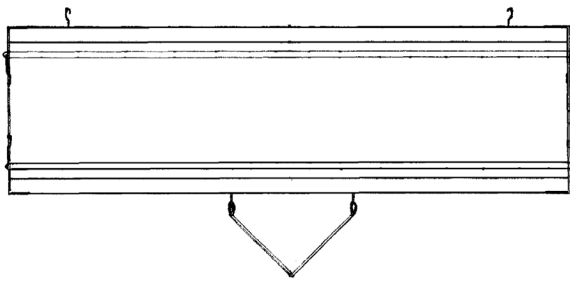


Using a 1/4" x 4" machine bolt and a 1/4" autolock nut, affix the four lams A to lam support B of the left-hand side main post.

- (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 the heddles in the shaft frames
(see WARP & WEAVE).

The left hand side has a hole for the pin

1 ½" (40 MM)
SCREW No 12

METAL PIN

Holes in the roller for cords

The left hand side has a hole for the pin

Using 1 ½" round-headed screws No 12, fasten the two roller supports to the center posts

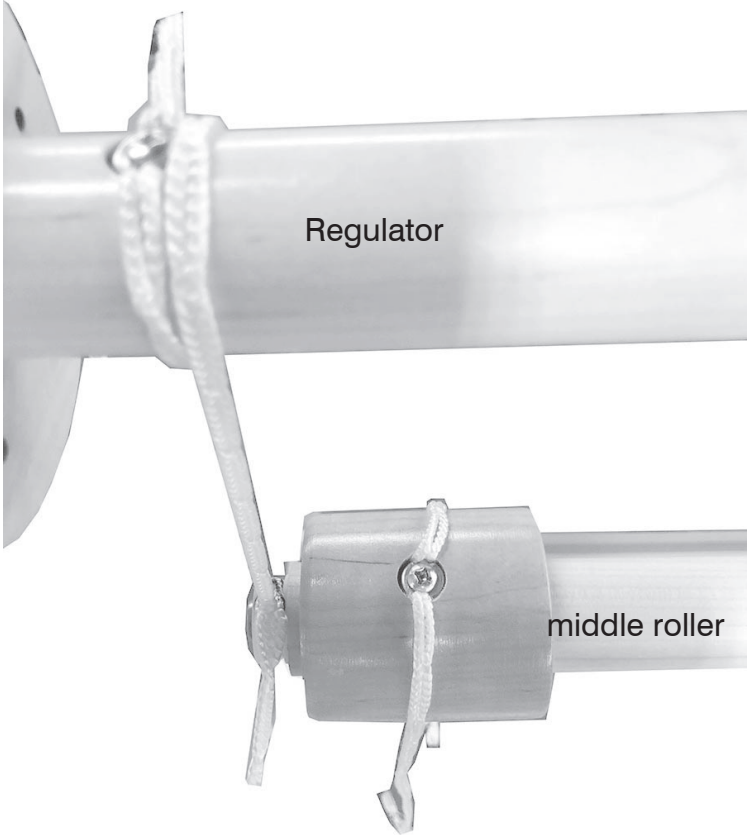
Place the shed regulator roller on the supports. The pulley should be on the left hand side of the loom.

Insert the 3" metal pin through the support and one of the holes of the pulley to lock while the holes in the roller for the cords face upwards.



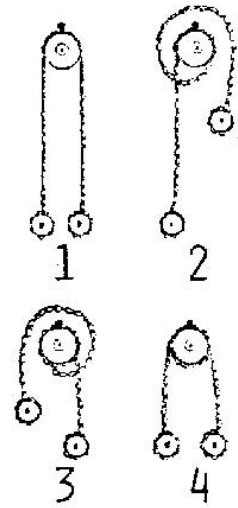
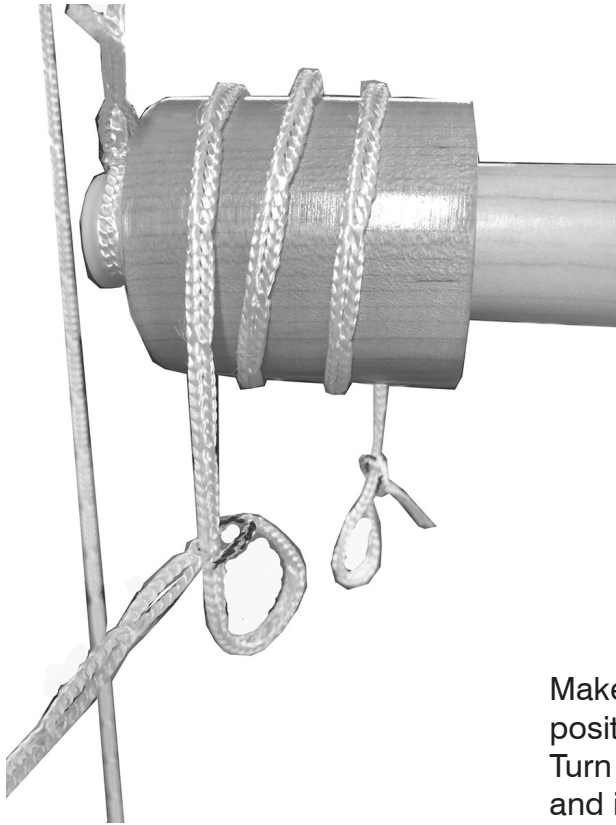
See Mira II video to understand how to do this regulator and shaft frames installation.

Turn the loop cords counterclockwise (one turn) and make the loop at the black mark.



Install the middle roller.

The loop just made around the white pulleys.



Make sure to have the screw and washers in up position.
 Turn the loop cord as you can see in the picture and illustration.
 Make the loops at the black marks.



Install the same way the 2 lower rollers using the loops just made around the white pulleys.

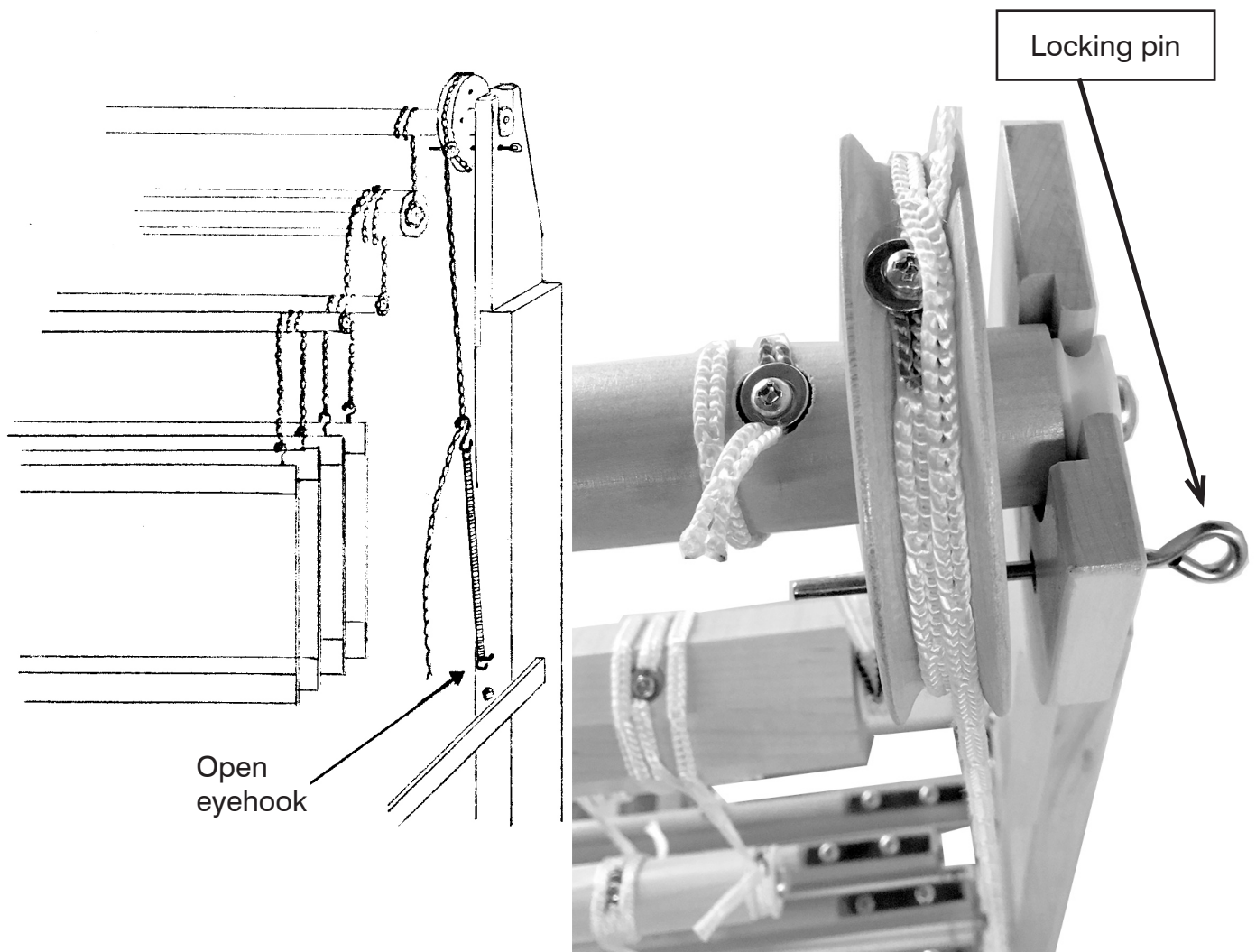
Make sure to have the screws and washers in the up position.
 Turn the loops cords around the small rollers as before.



Affix the shaft frames to the black marks.

The Leclerc Logo has to be in the upper front of the loom.





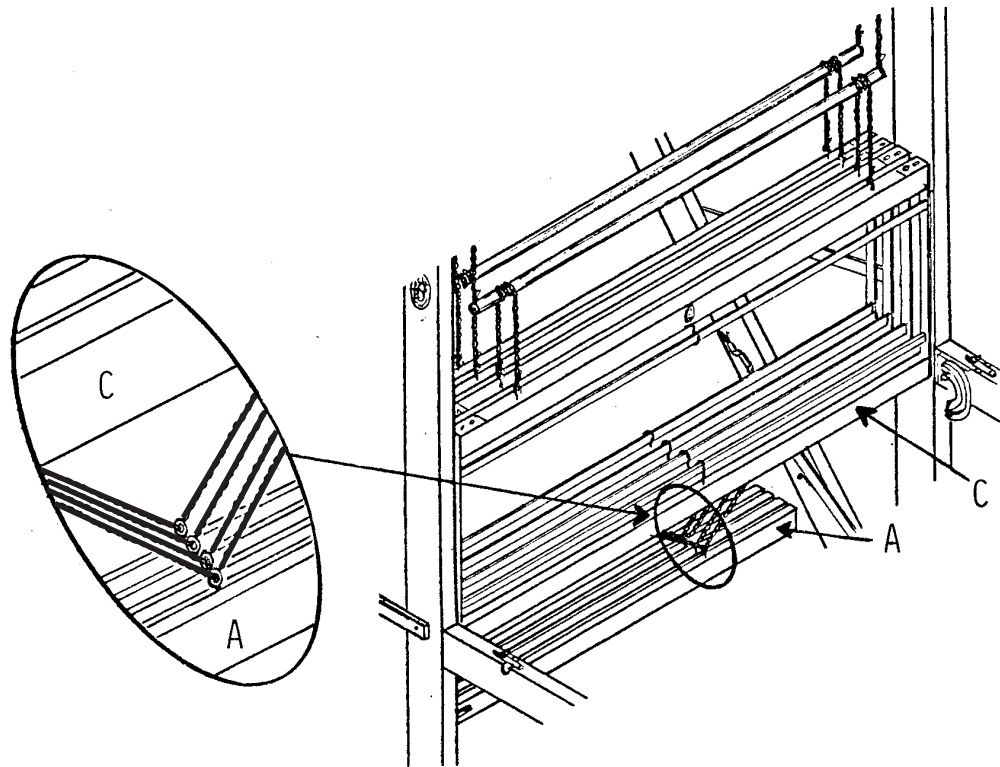
Stand behind the loom, facing the shed regulator.

Pass the cord once around the pulley in a counter-clockwise direction.

Slip a "S" hook onto one end of the spring (the new spring is shorter than the one in the video).

When weaving balance shed (1-3/2-4 or 1-2/3-4) you can use the locking pin as in the picture.

When you want to weave the un-balance shed like 1 against 3, you have to remove this locking pin and adjust the length of the loop cord to increase the tension on the shed regulator roller.

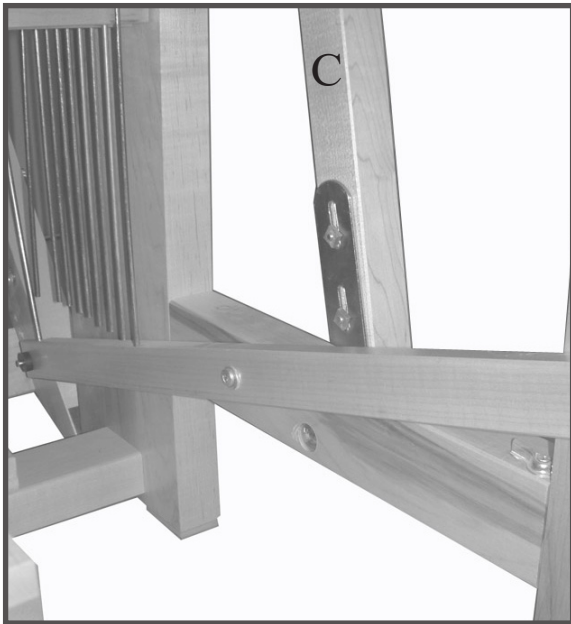


NOTE: Don't forget to string the heddles prior to attaching the shaft frames to the lams.

Connect shaft frames C to lams A using the supplied 4 loop cords 20" long.

Your loom is now adjusted for a counter- balanced weave. If you wish to treadle one harness against three, you must engage the shed regulator by removing the metal pin from the pulley, and readjusting the tension of the spring (by inserting the "S" hook in different loop) to obtain the best possible shed.

When weaving balance treading, you can weave without the pin so with the shed regulator on.

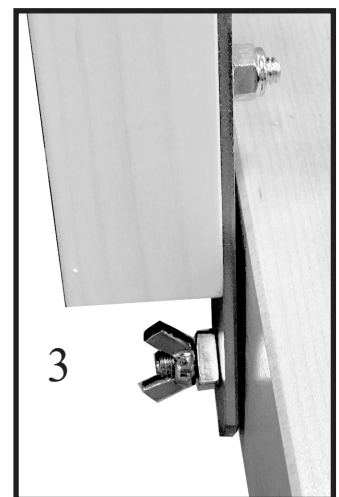
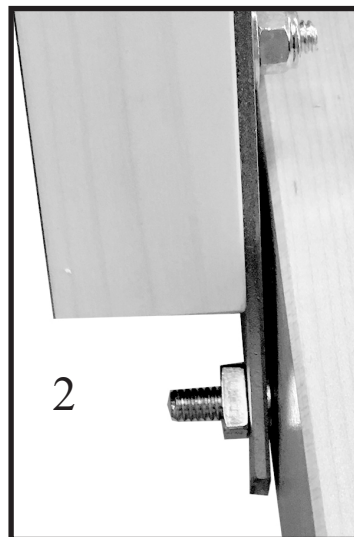


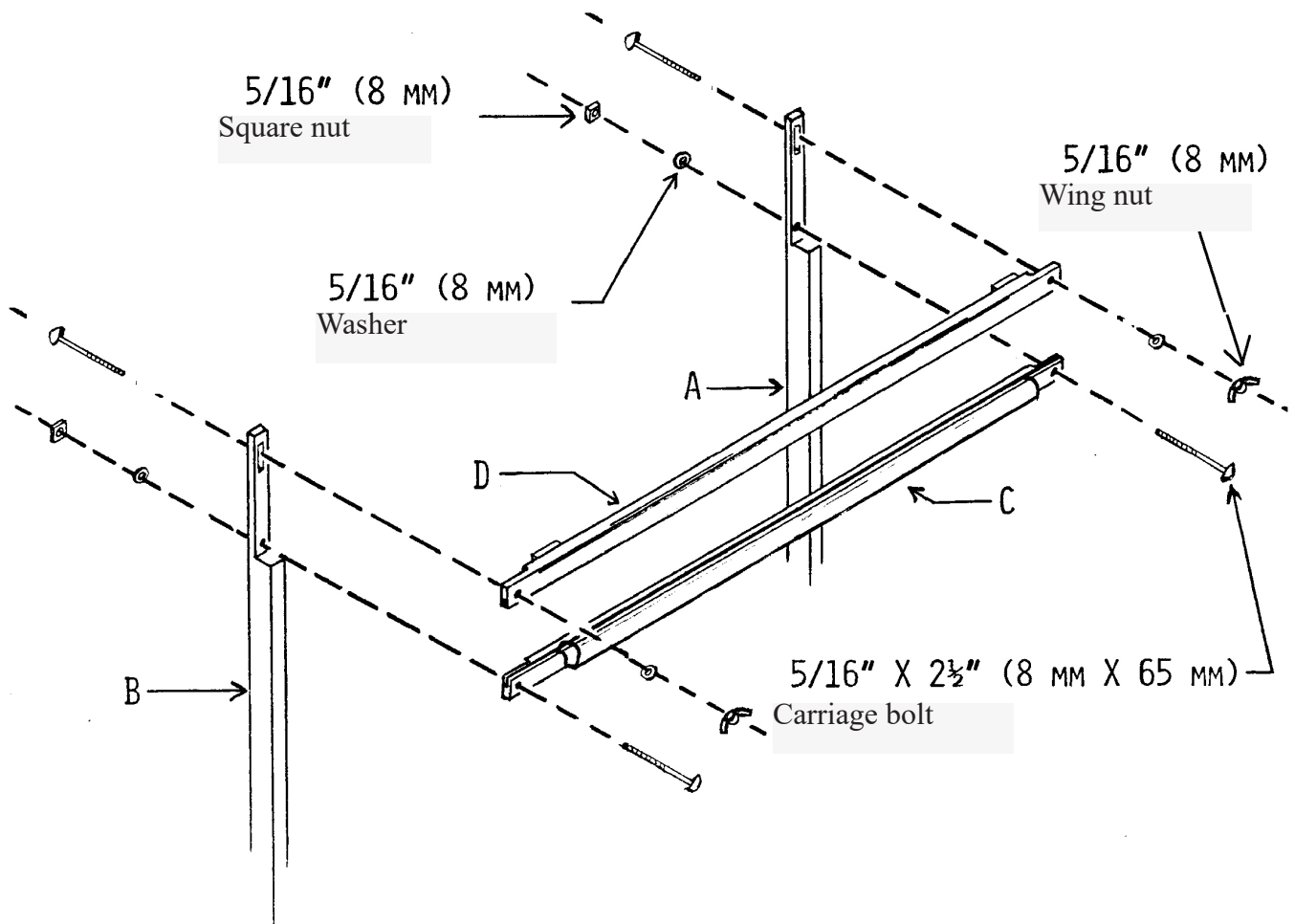
NOTE: Hammer the head of the carriage bolt inside the hole

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)





Using two (2) 5/16" x 2½" (8 mm x 65 mm) carriage bolts, two 5/16" (8 mm) steel washers, and two square nuts, affix batten sley C to the lower holes of swords A and B.

NOTE: The batten sley does not have polyvinyl bumpers but it has a shuttle race.

Using two 5/16" X 2½" (8 mm X 65 mm) carriage bolts, two 5/16" (8 mm) steel washers, and two wing nuts, affix batten handtree D to swords A and B.

NOTE: The batten handtree has polyvinyl bumpers.

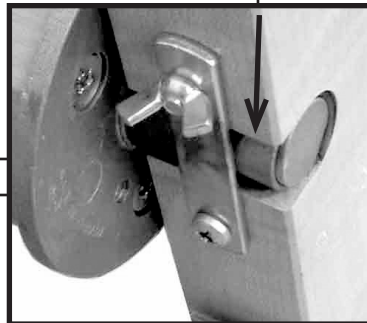
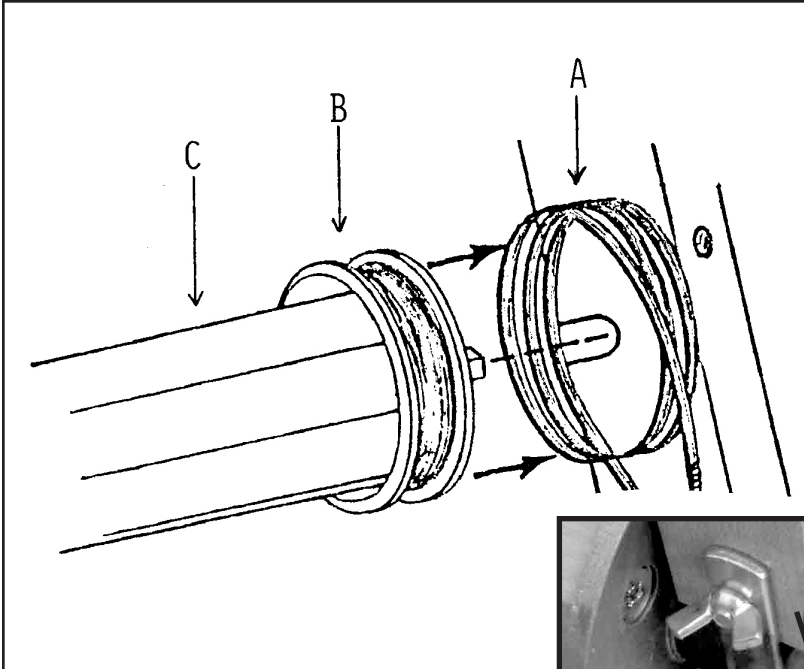
The slots of the batten sley and handtree must face each other.

If the loom is equipped with a sectional warp beam, the rake-like pieces must be affixed to the warp beam. If not, affix the apron to the warp beam with the tacks supplied with the loom.

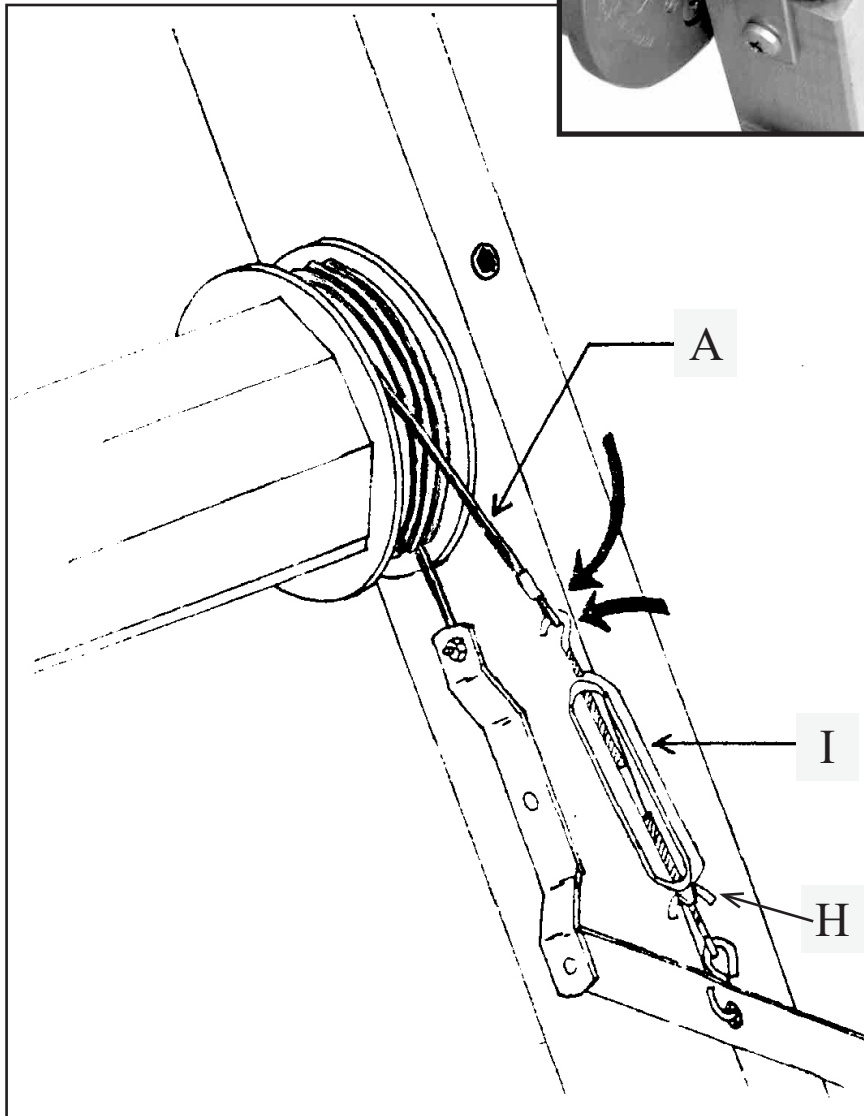
WARP BEAM INSTALLATION

Hold the circular wire brake shoe A slightly to the rear of the loom, **but do not unroll it.**

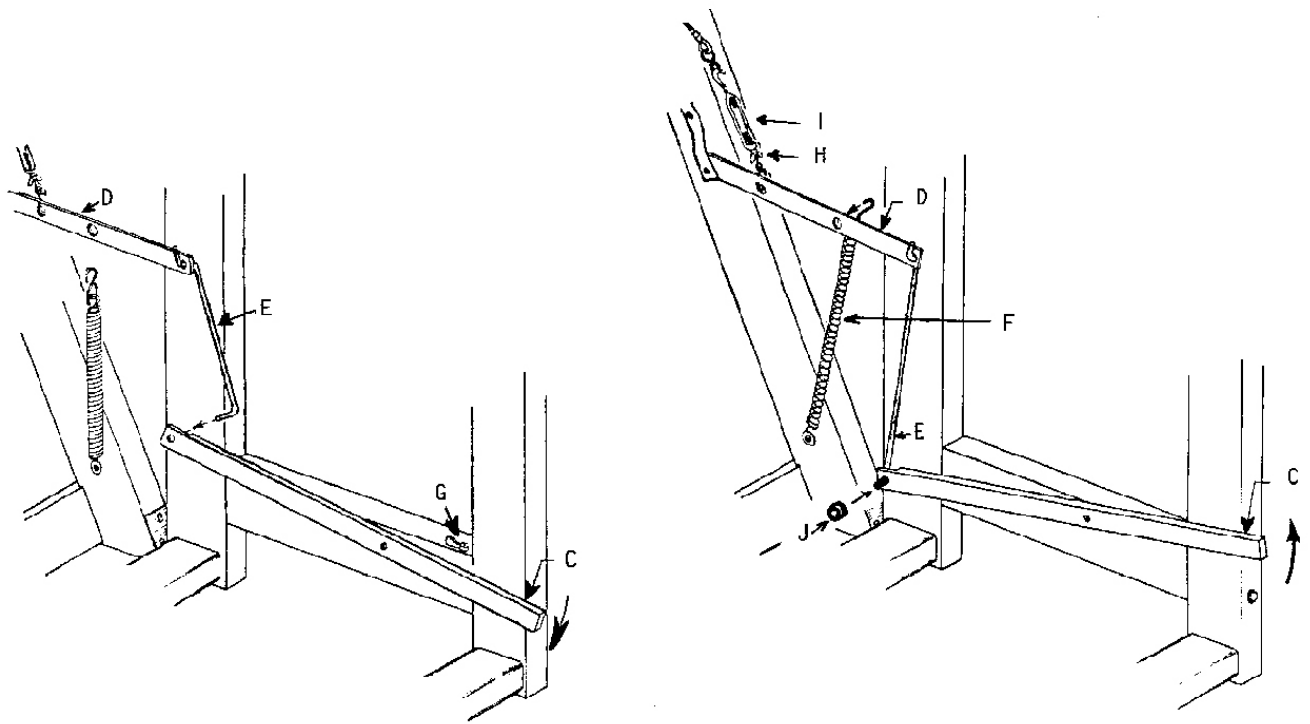
Insert the brake drum B into the wire brake shoe A. Then, install the ends of the warp beam C into the grooves of the back posts.



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.



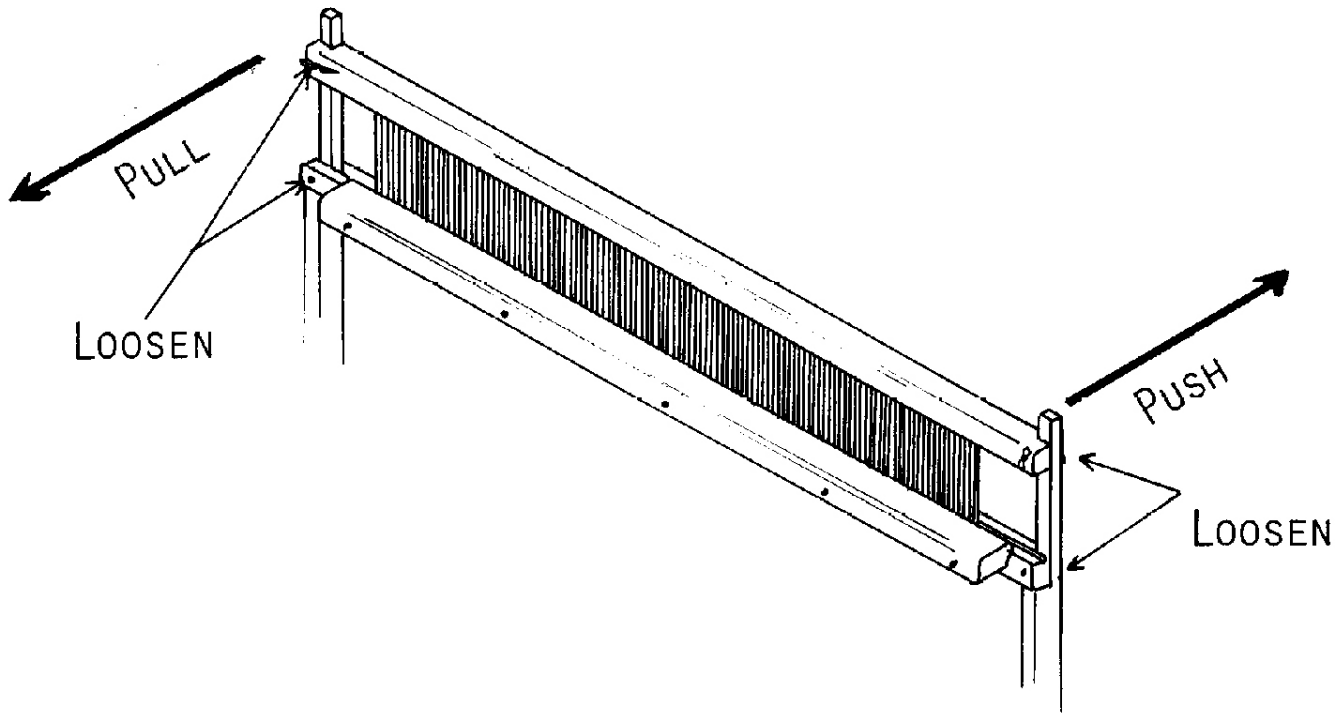
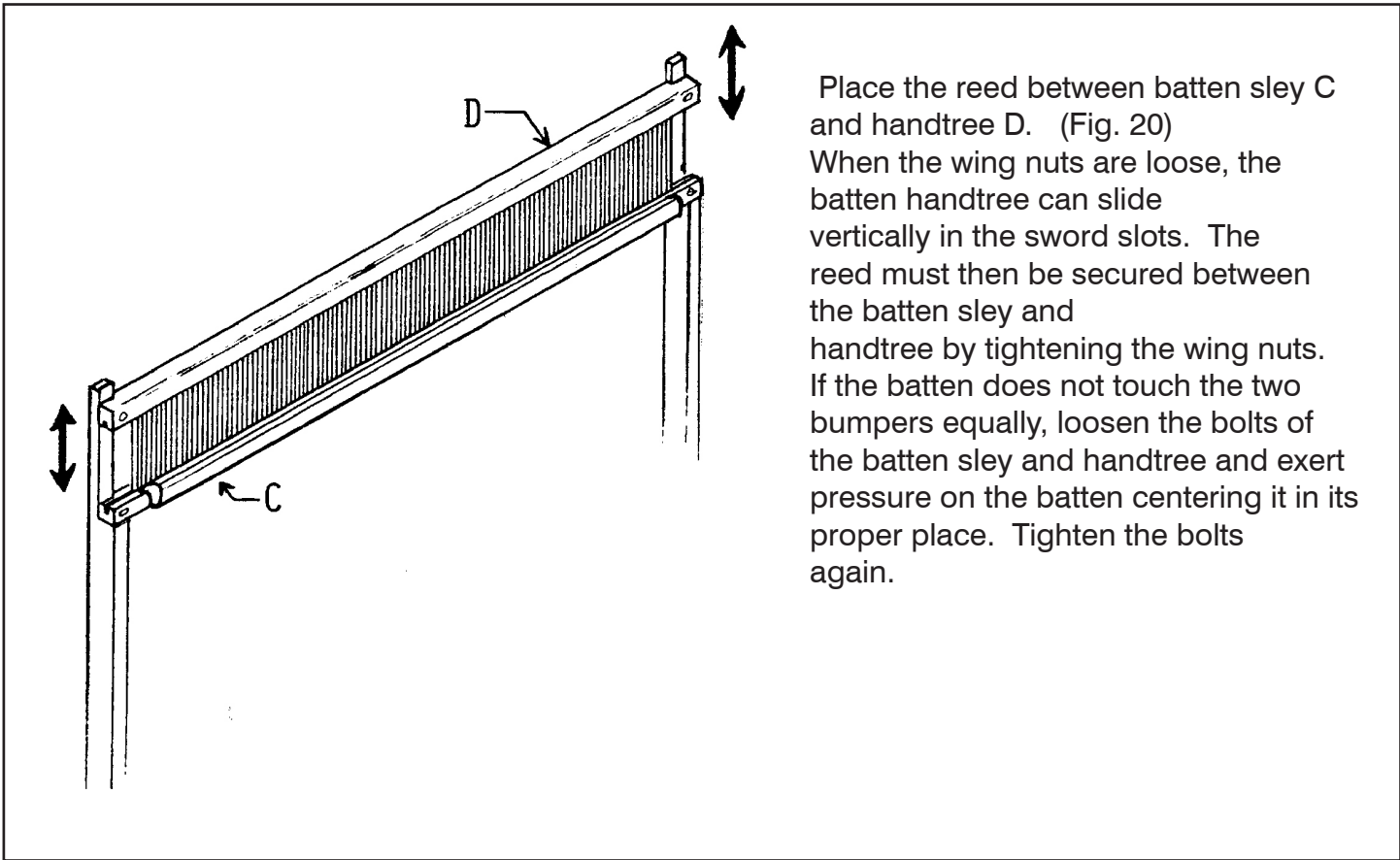
Hook turnbuckle I to flat wire circle A.



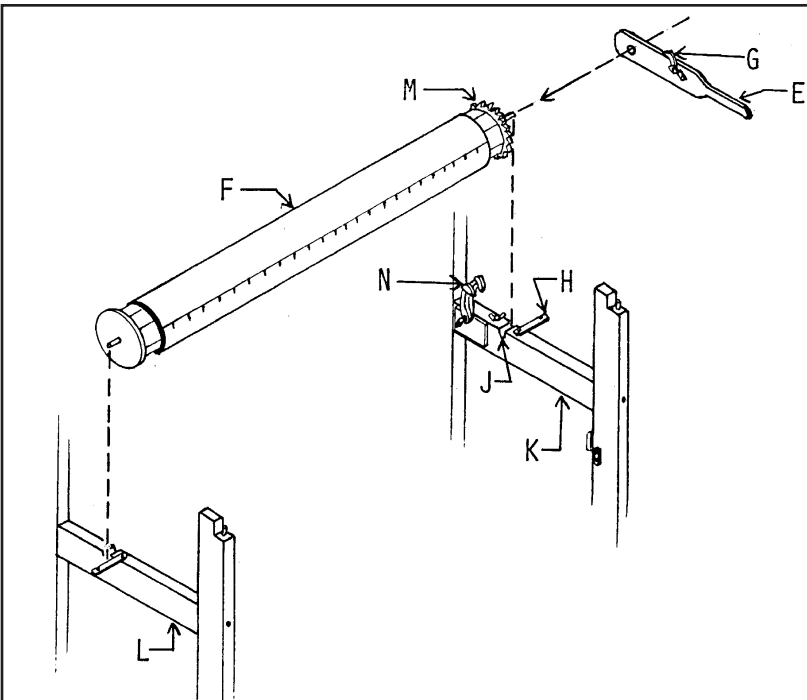
If needed, use the metal rod (E), to join treadle (C) to lever (D). First insert the double-cornered end of the metal rod into lever (D); then insert the other end of the metal rod into treadle (C) while the treadle is depressed.

Raise treadle (back part) (C) as high as possible then hook spring (F) to lever (D).

Insert the black rubber ring (J) to the lower end of the rod (E), to prevent the rod from slipping out.



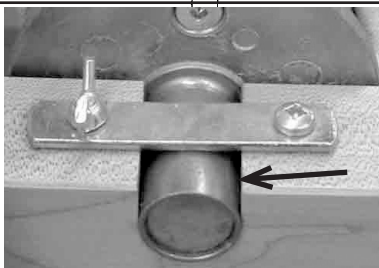
If the batten does not touch the two bumper equally, loosen the bolts of the batten sley and batten handtree and exert pressure on the batten centering it in its proper place. Tighten the bolts again while keeping pressure in the batten straight.



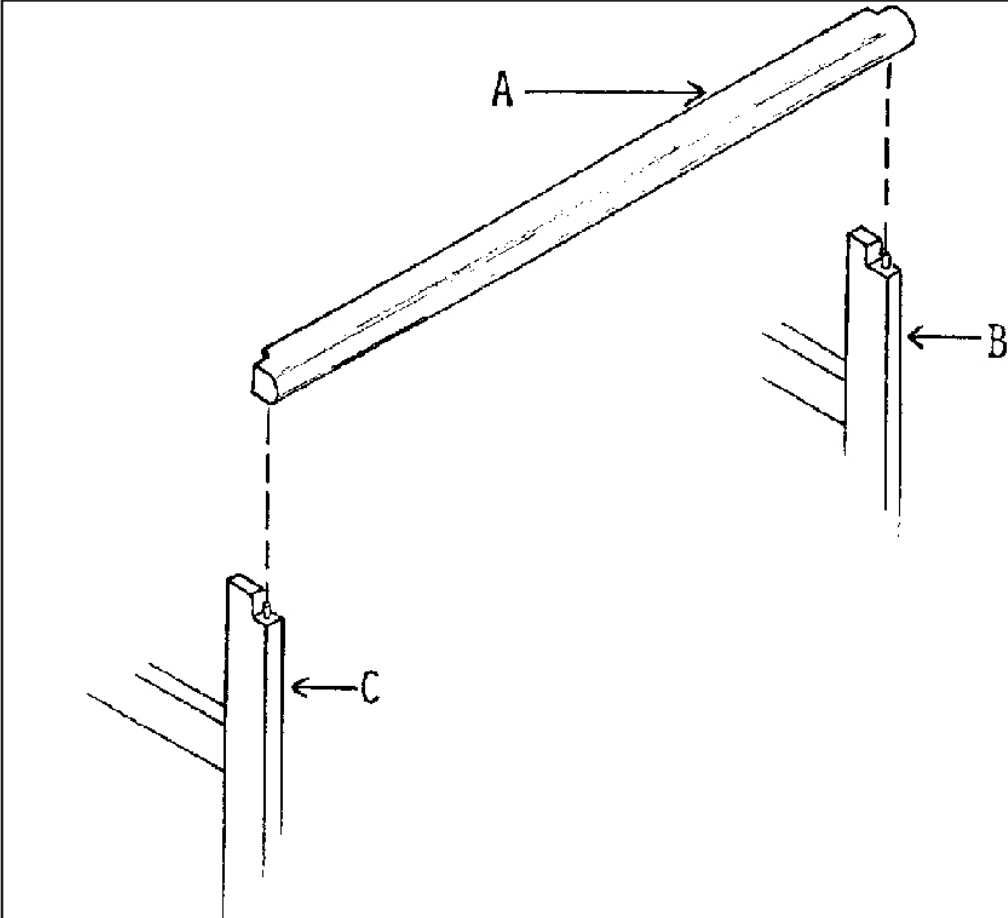
Install take-up motion handle E on the axle end of cloth beam F (on the same side as the ratchet gear) by first removing the metal bushing. The take-up handle should then be installed, taking care to ensure that the ratchet pawl G is lifted up and out of the way. Once the handle is in place, the bushing should be re-installed on the cloth beam axle.

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.

WARNING: Take care when removing the front and back Breast Beams from the loom. After removing one side from the upright post, be very careful not to pull it away from the loom before removing the other side. The length of the beam provides significant leverage that can exert a great deal of force on the other end, between the metal pin and the wooden upright post. Moving the beam even as much as one inch while the other end is still attached can cause the top of the upright post to crack or break.



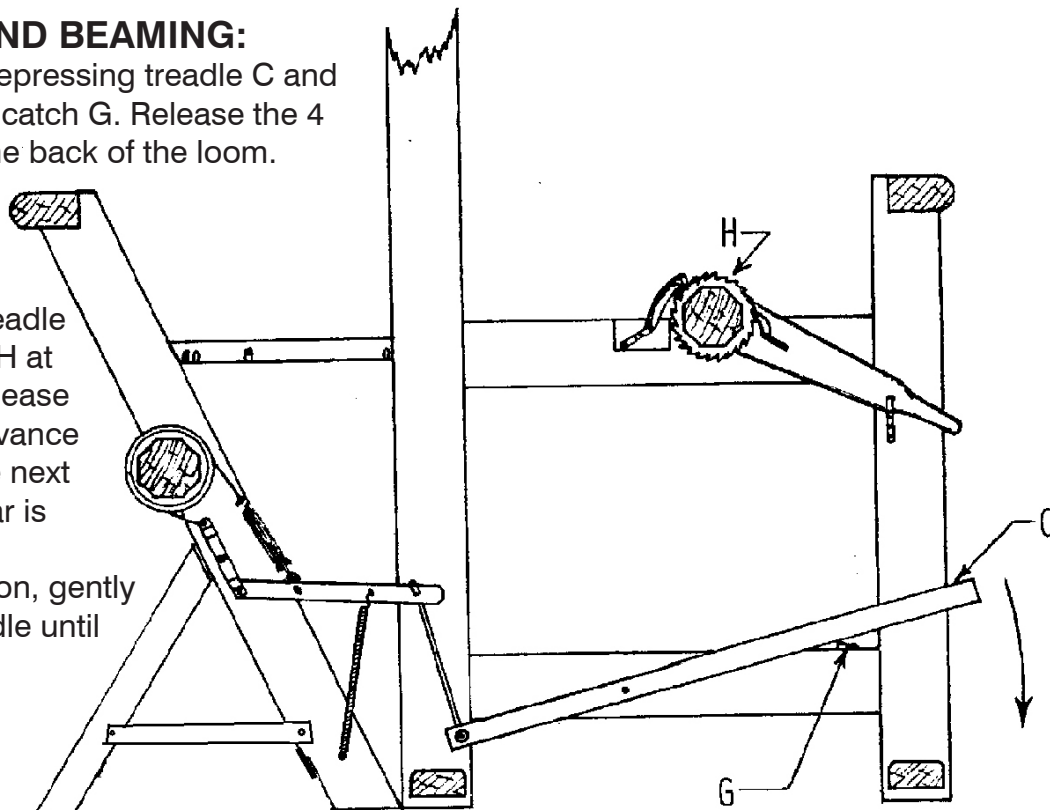
FOLDING LOOM AND BEAMING:

Release the brake by depressing treadle C and by locking it down with catch G. Release the 4 metal hooks and fold the back of the loom.

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"

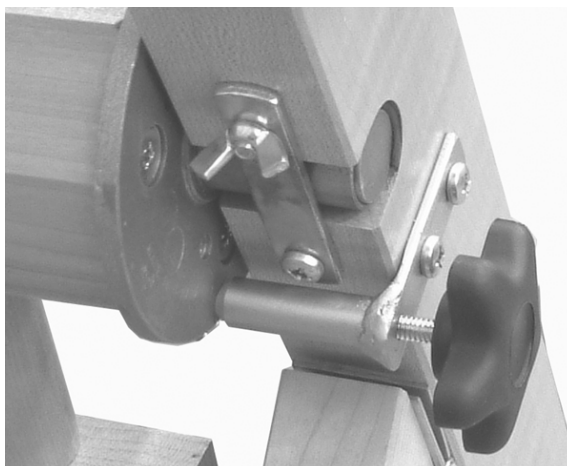
Install the Warp beam advance control system.

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

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

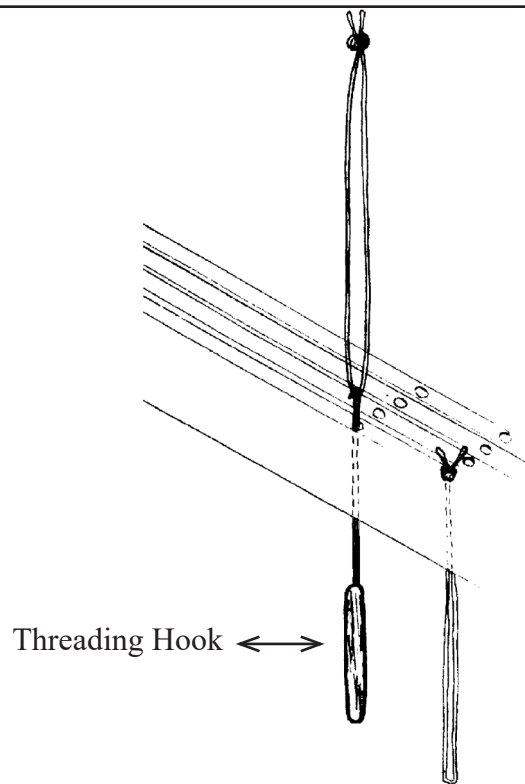
Just screw the handle in to increase the friction or unscrew it to release.

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

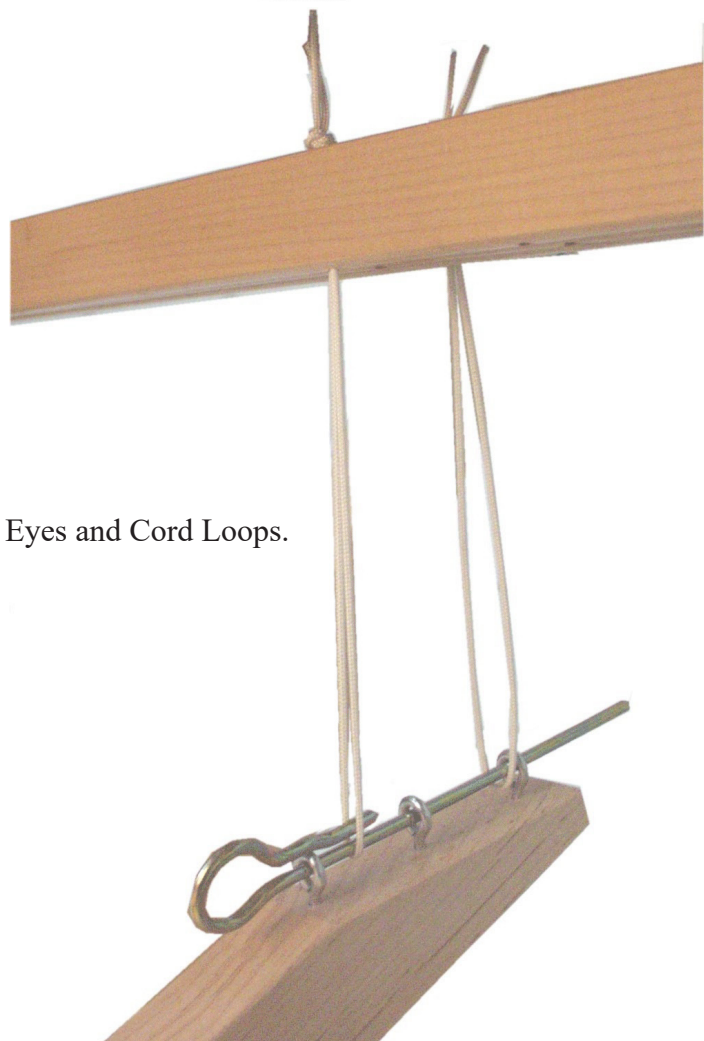
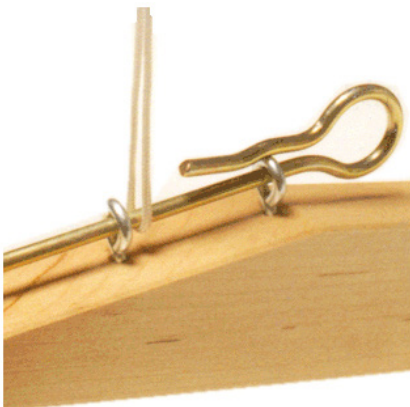


FIRST TREADLE TIE-UP

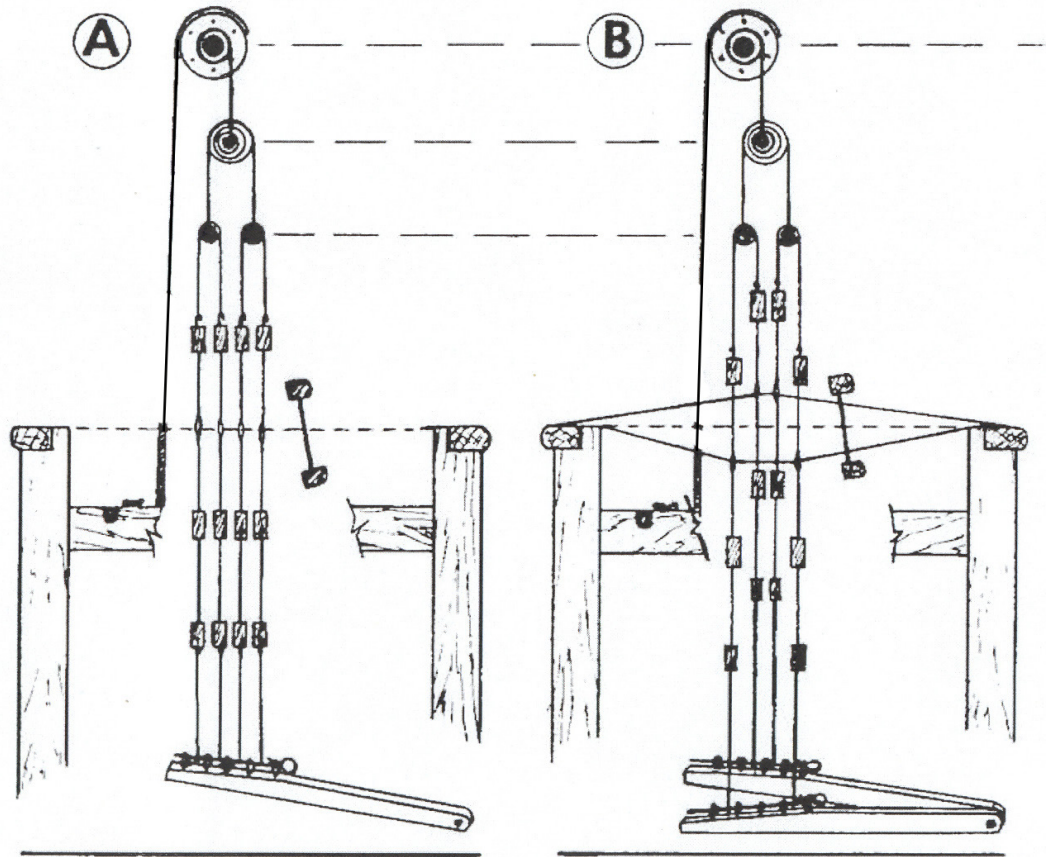
Select any treadle and tie the Lams to the Treadles using the 7" cords supplied with the loom. Take the threading hook to help pass the cord through each hole of the lam.



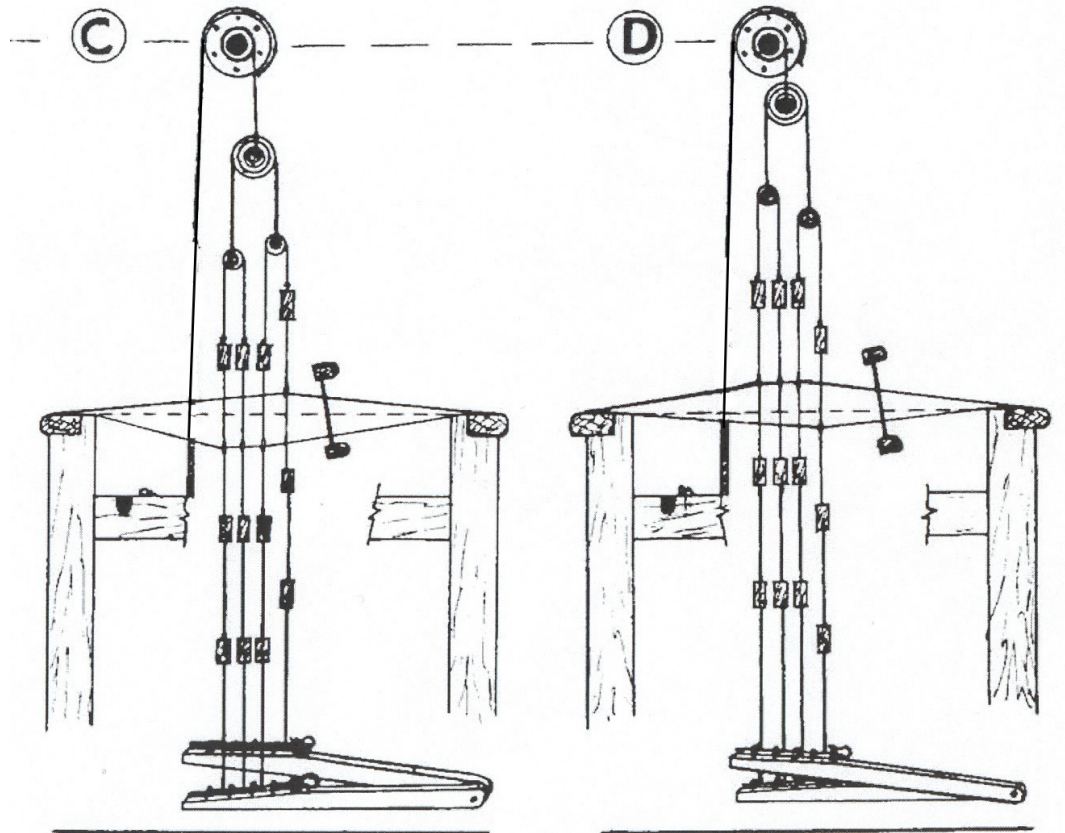
Slide the Treadle Hook through the Screw Eyes and Cord Loops.



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 close.

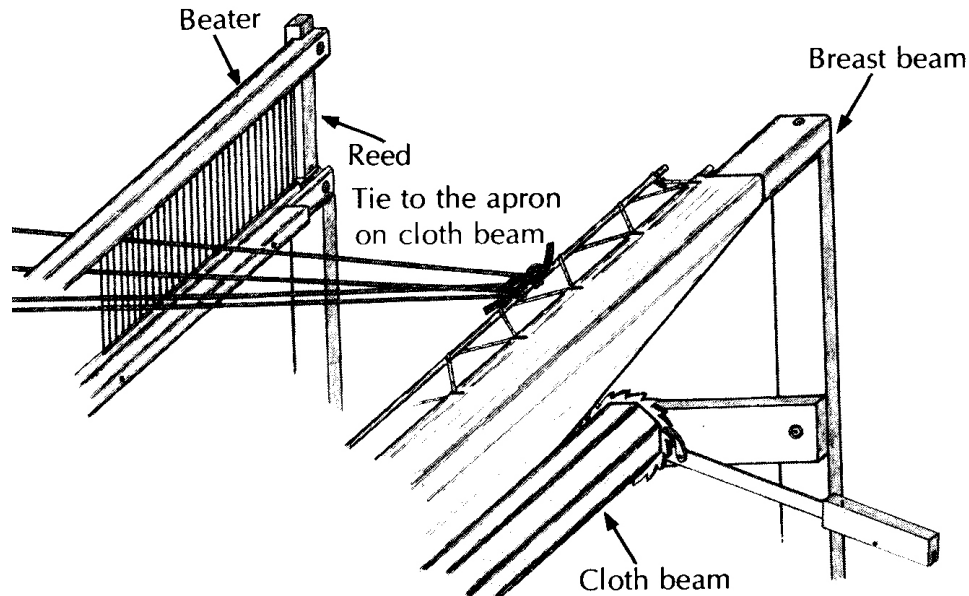


C) & D) Remove the metal pin to weave uneven shed or to weave with very high tension on the warp. Adjust the length of the loop cord so the shed is maximum with all tie-ups of the pattern.



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)

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.

For 60" loom
(150cm)

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.

WEAVING: The height of the shaft frames and the beater have been pre-adjusted. Make sure the warp threads pass through the center (or close to the center) of the reed. For more information refer to the book "Warp & Weave" supplied with the loom.

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