COLONIAL V2
8 &12s
Jack type Back Hinge Treadle

1573 Savoie
C. P. 4 Plessisville, Qc.
G6L 2Y6
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info@leclerclooms.com

	8s	12s
45"	1051-0082	1051-0212
60"	1052-0082	1052-0212

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

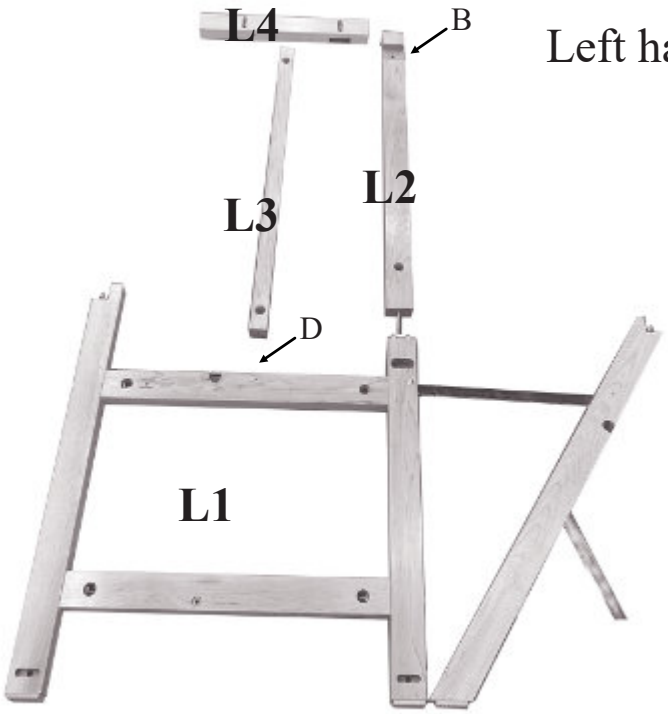
Check the parts received against the parts list on pages #2 to #7 of the assembly instructions. Report any discrepancies to Leclerc immediately.

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

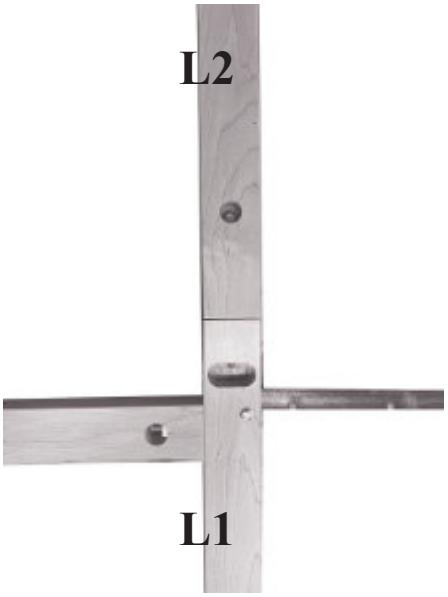
Loom Prepared by:_____

Inspected by:_____

Date:_____



Left hand side



1 Wrench 9/16"

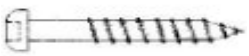
Hardware for both sides

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

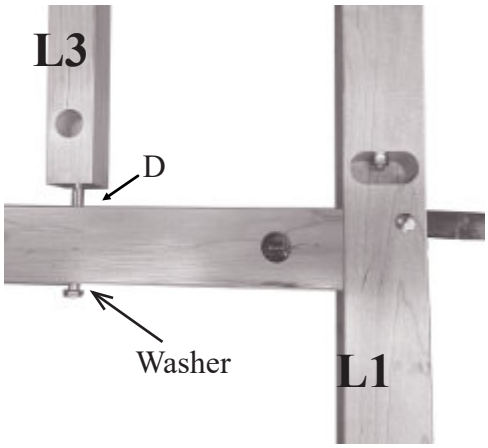
SQUARE NUTS
4X 3/8" (10 mm)

Hexagonal nuts
2X 3/8" (10 mm)

Washers
4 X - 3/8"



8X Vis tête ronde #14, 2½"



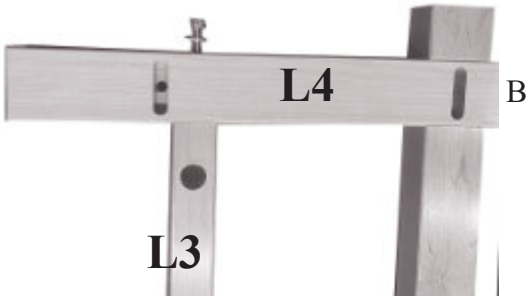
Using the 5" bolt, square nut, and washer;

1) Affix the part L2 to the base L1 by inserting the threaded rod into the hole. Secure tightly with the 3/8" hex nut using the 9/16" key wrench

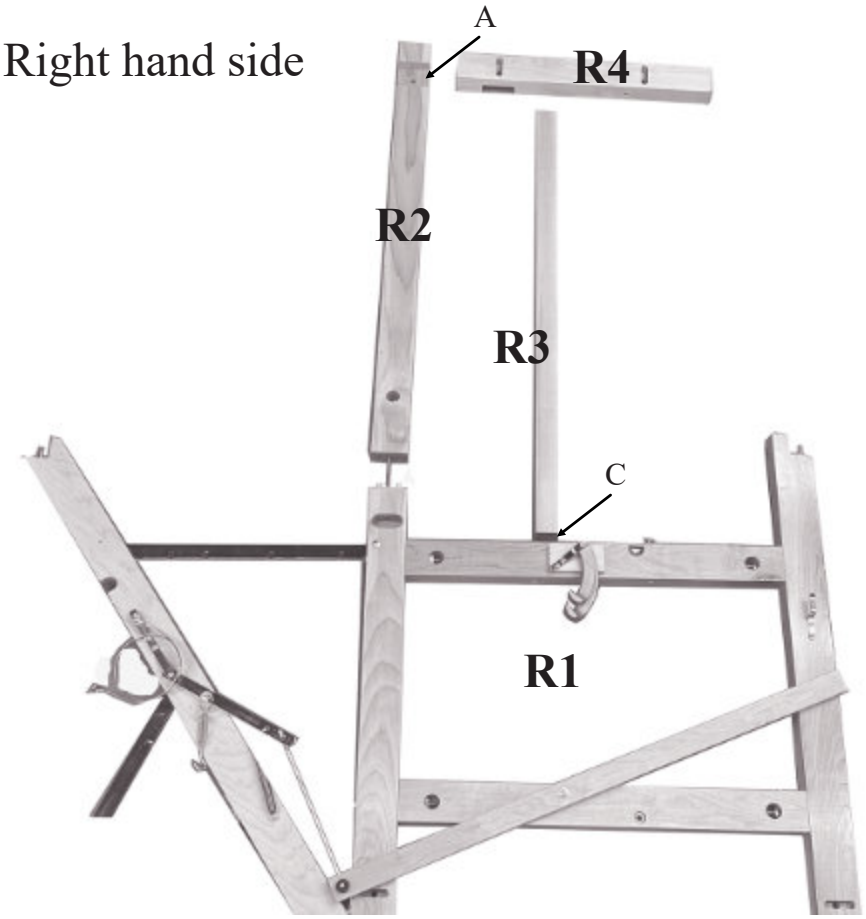
2) Affix The part L3 to base L1

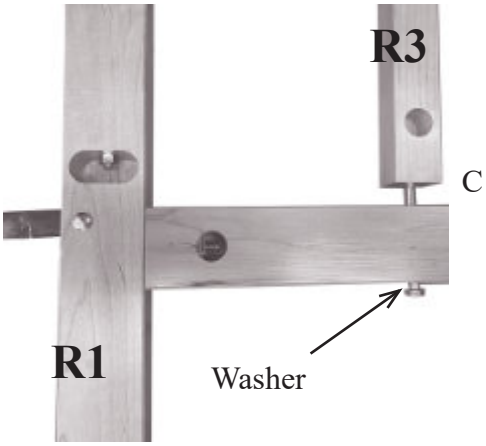
3) Affix the part L4 to L3

Note: Make sure all the nuts are secured tightly



Right hand side





- **Affix the parts following the letters stick to the pieces**

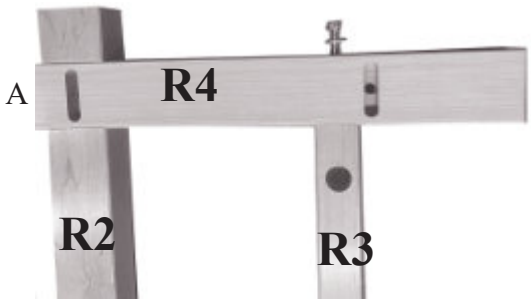
Using the 5" bolt, square nut, and washer;

1) Affix the part R2 to the base R1 by inserting the threaded rod into the hole. Secure tightly with the 3/8" hex nut using the 9/16" key wrench

2) Affix The part R3 to base R1

3) Affix the part R4 to R3

Note: Make sure all the nuts are secured tightly



Beater bumpers

2x Front

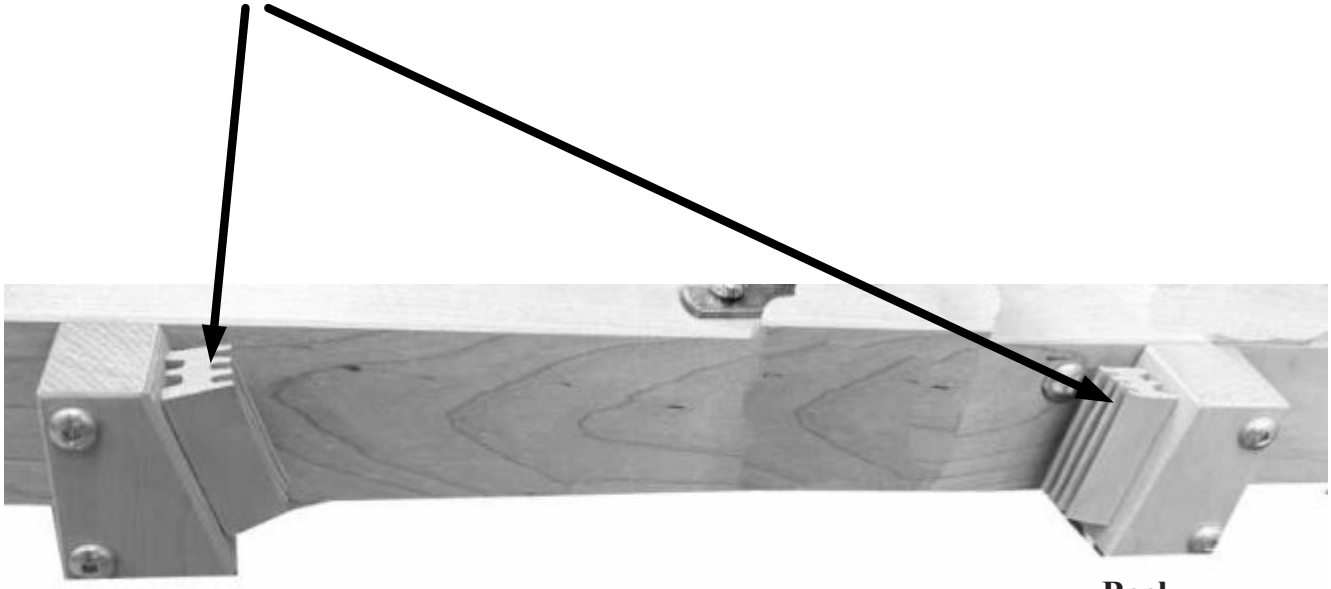
2x Back

Use 8 round head screws #14, 2½" to affix the beater bumpers to the outside of the right and left side loom.

Note that the upper parts of each bumper are a little wider.

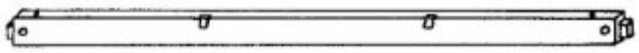
Use the pre-drill holes made in our shop while assembling the loom.

The bumpers have to face each other.



Back

Front



2 upper cross-members

8 or 12 floating lams (45"" = 48¾")
(60" = 63¾")

1 apron

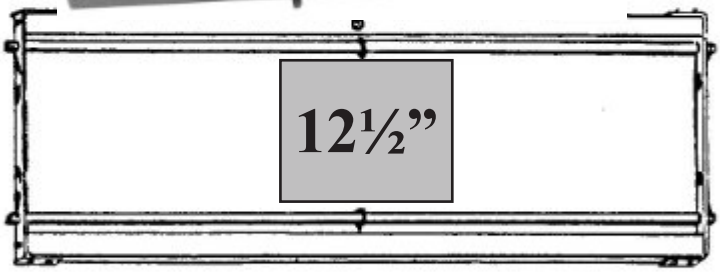
1 cloth take-up motion handle

2 lam separators

Note for Leclerc Looms only:
Ensemble marmoussets avec les rondelles.

Note Leclerc: Identifier avec un A (gauche) ou un B (droite)

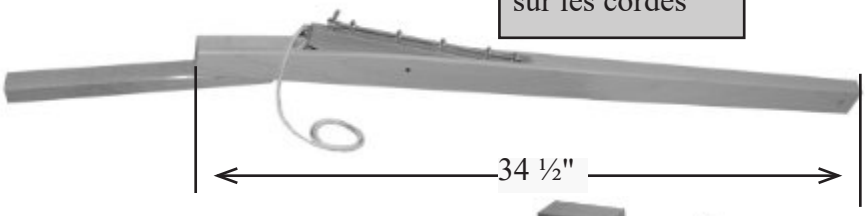
1 Jack assembly (8 or 12 jacks)



8 or 12 shaft frames

Note for Leclerc Looms only:
Avec arrêt de bascule sous la pédale et la corde à bascule 18"

Marques noires sur les cordes

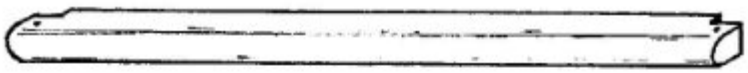


10 or 14 treadles

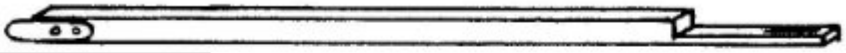
3 treadle supports 3/16" x 6 1/16

1 treadle set rod with push nut
(40” / 12S - 28¾” / 8S)

2 Push nut



2 breast beams

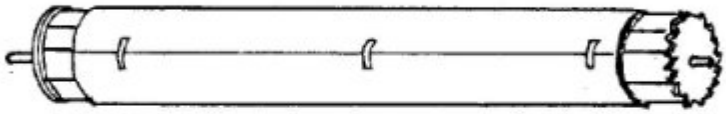


1 left sword

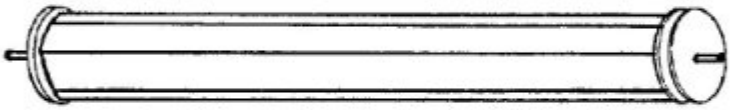
Ferrure ajustées à 3"

1 right sword

1 back board of the lam box



1 cloth beam



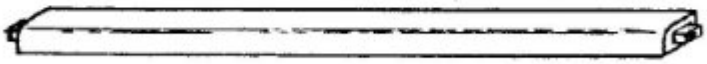
1 warp beam

1 batten handtree

1 batten sley with shuttle race

1 middle cross-member
1 front cross-member

Note for Leclerc Looms only:
Avec support au centre sur le 60"

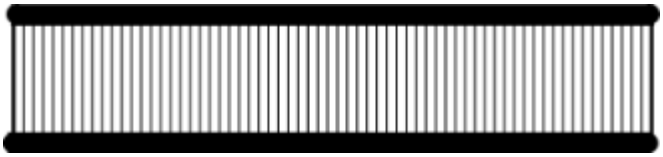


1 front board of the lam box

1 upper shaft frame control unit

Étiquette: Front/right

1 crank (back beam)



1 reed

2 lease sticks

4 warp rods 5/16"
2 warp rods 7/16"

10 or 14 treadle hooks 12” with pegs

Note for Leclerc Looms only:
Marques noir sur les cordes

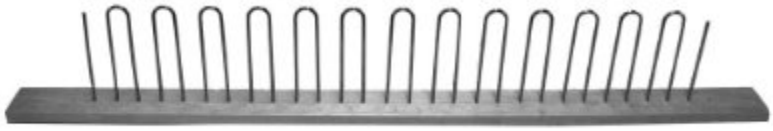
5 sets or 8 sets treadle cords 8.5”

10 or 14 loop cords 18” for rocker piece

10 ou 14 springs with clip and loop cord

1 back hinge treadle support

Note for Leclerc Looms only:
Avec les boulons et écrous papillons.
Pour le 12s, faire les trous pour les 3 supports de pédaliers.
Pour le 8s faire les trous pour le 8 et 12s.



1 back hinge treadle separator

3 screwdrivers (red, green and black)

1 adjustable wrench

1 boat shuttle

12 plastic bobbins

1 Reed hook (long)

2 pk of cord (5 yd each)

2 wooden bars with black stripe app. 15” long

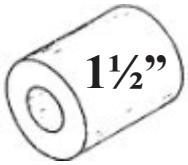
2000 heddles (45” loom)
2500 heddles (60” loom)

1 warp beam advance control system

Machine bolts
8X - 3/8” x 5”

Carriage bolts
2X - 5/16” x 2¼” (swords)
4X - 5/16” x 2½” (Beater)
3X - 5/16” x 4½” (Treadle set)

9X - 5/16”
4X - 9/16”
8X - 3/8”



Wooden spacers
8 or 12 wood spacers for the treadle set

SQUARE NUTS
8 X 3/8” (10 mm)
7 X 5/16” (8mm)

Wing nuts
7 X - 5/16” (8 mm)

Round head screws
12X - #12 x 1½”
4X - #14 x 2”
2X - #8 x 1½"

Flat head screws
6X - #8 X 1” (Back post)
4X - #12 x 1.5” (Back board)

2X eye screws
(lease sticks)

Tacks for canvas

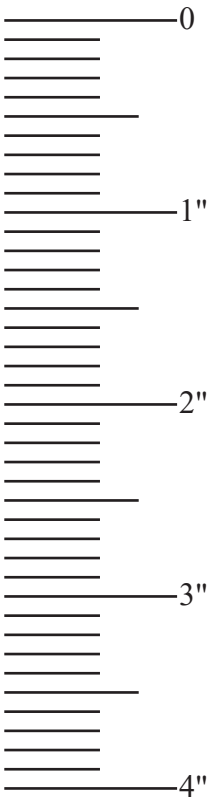
16 or 24 short cords 24” (Shaft frame to Jacks side connection)

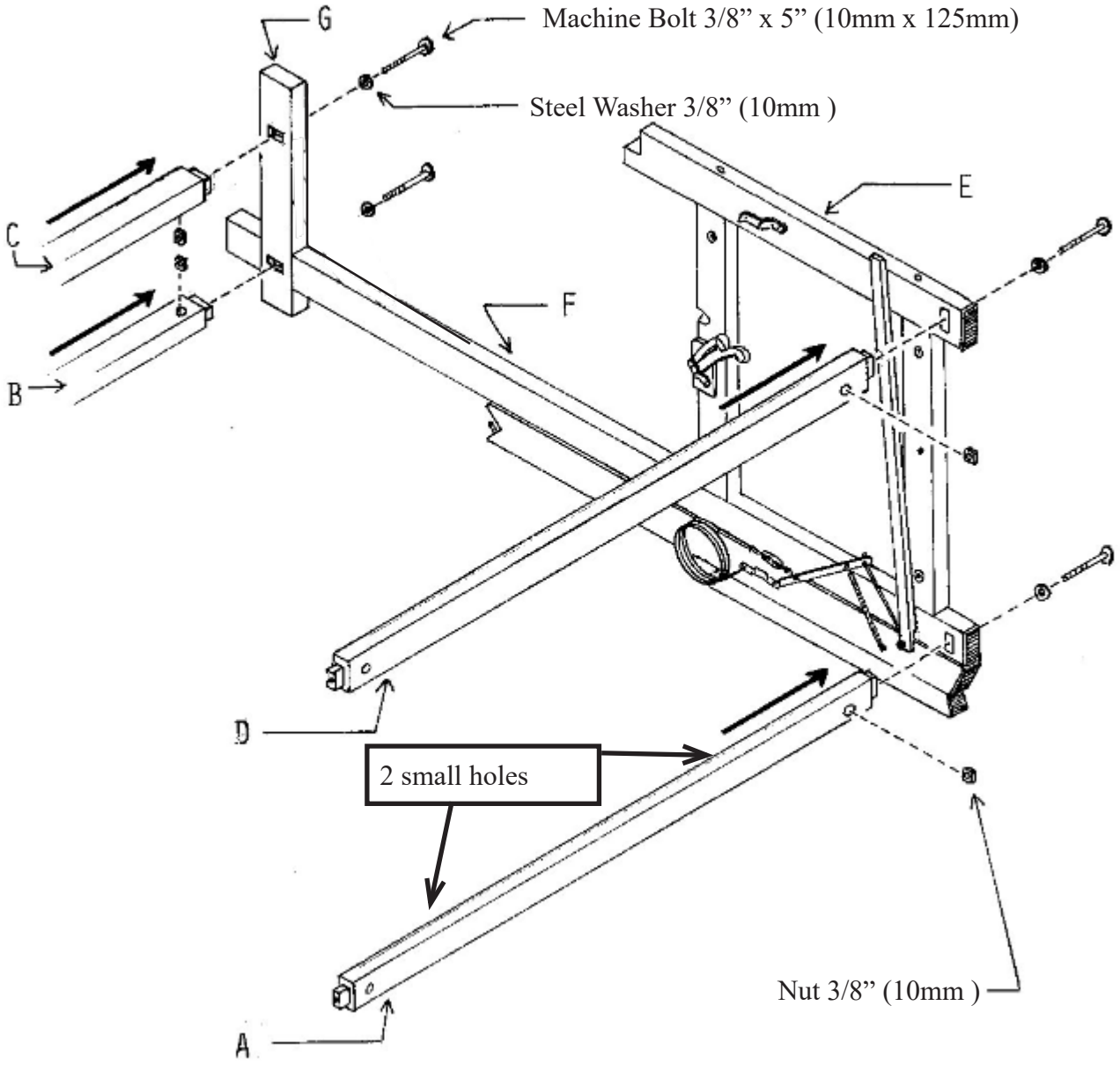
Note for Leclerc Looms only:
CORDES AVEC DES MARQUES NOIR

Assembly online video:

https://vimeo.com/588396381/2549a5c891

http://www.leclerclooms.com/video/colonialv2.html

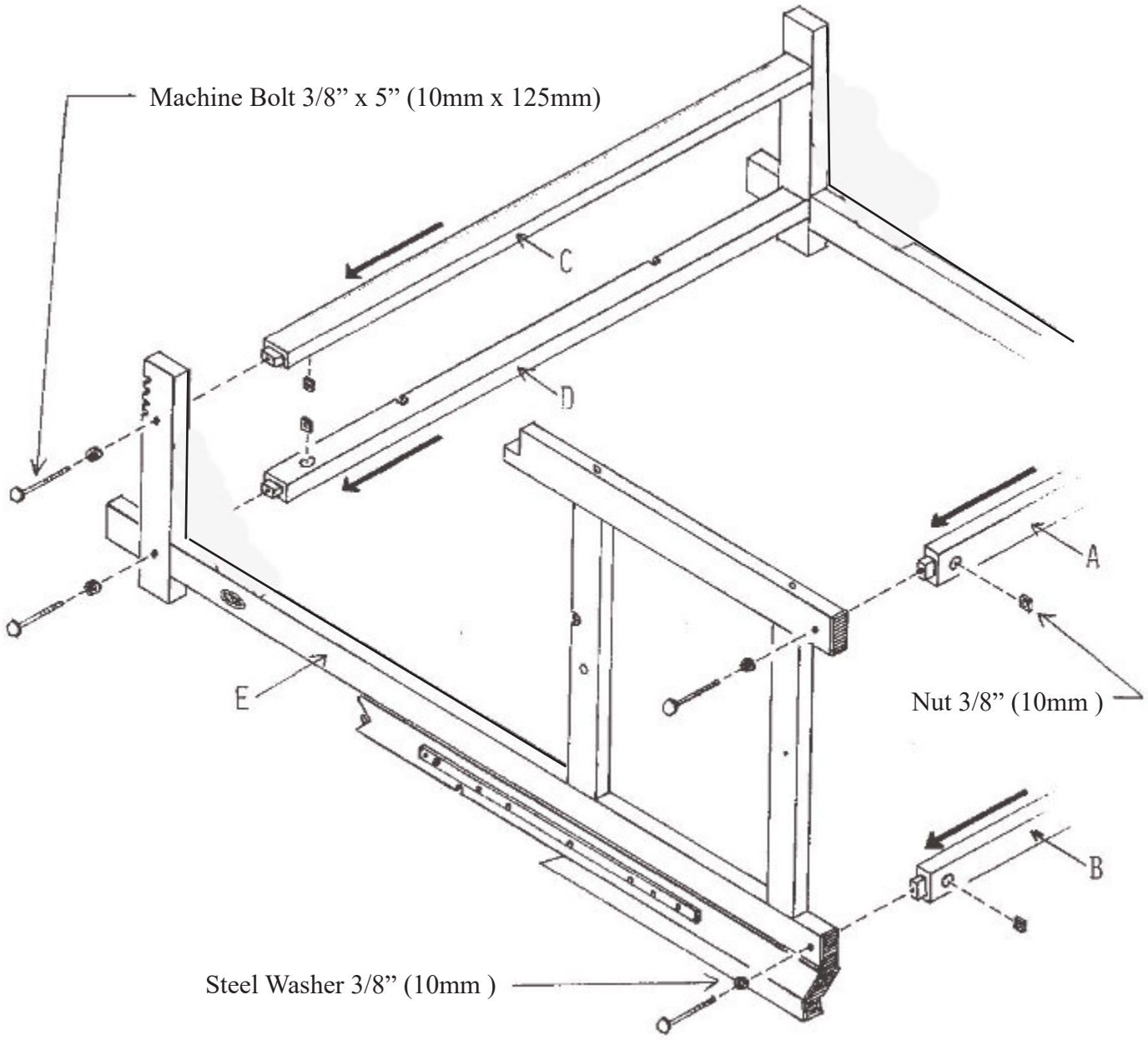




CROSS-MEMBER ASSEMBLY

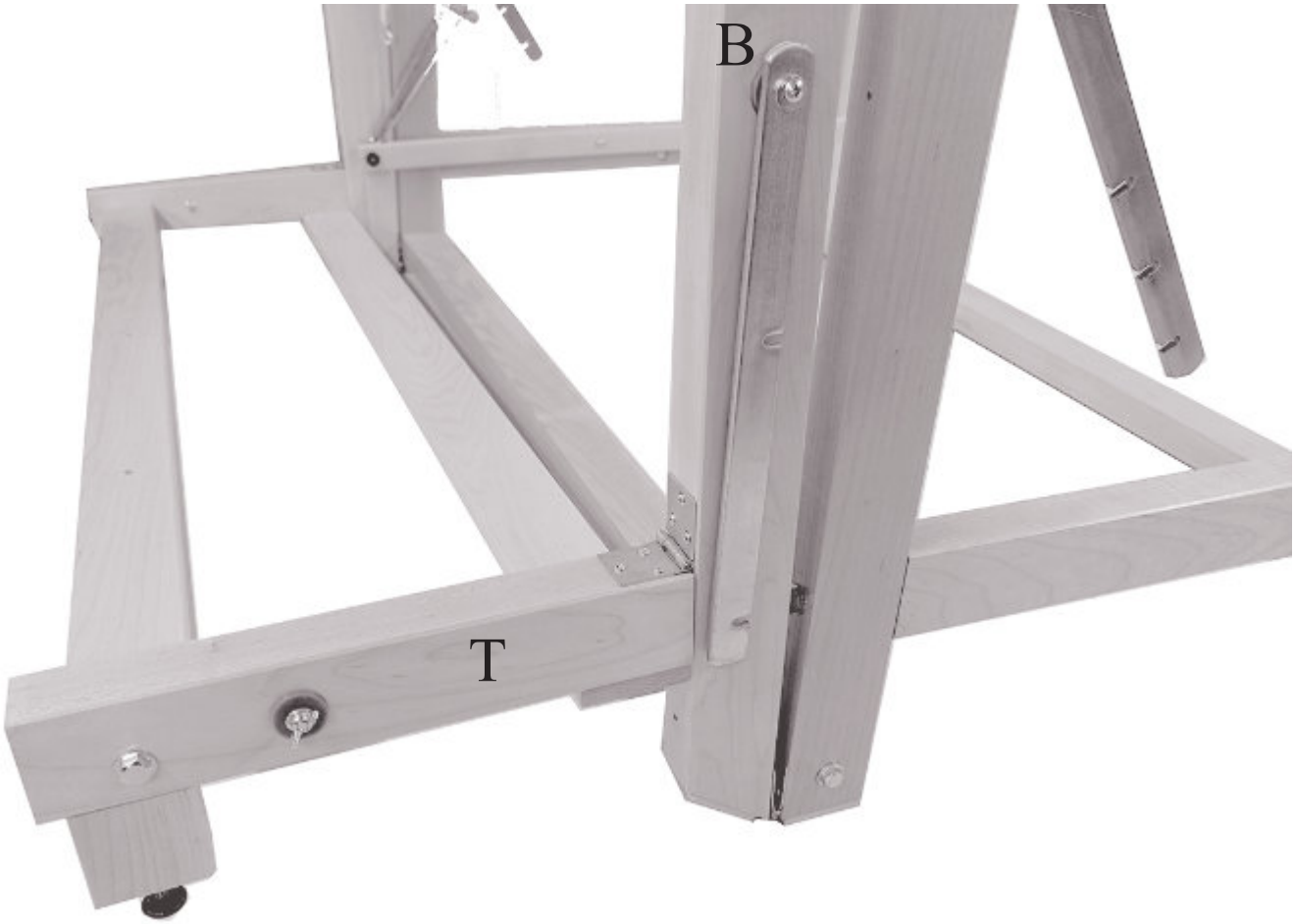
1) Insert a tenon of the lower middle cross-member A into the lower mortise of the middle post F.
   note: the middle cross-member A have 2 small hole in the top.
2) Insert a tenon of the upper back cross-member B into the back mortise of batten support G.
   note: the upper back cross-member B is one of the two cross-members with two notches.
The notches must be on the top (when the loom is upright).
3) Insert a tenon of the upper front cross-member C into the front mortise of batten support G.
   note: cross member with notches. The notches must be above and face the notches of cross-member B.
4) Insert a tenon of treadle set cross-member D into the mortise of front post E.
   note: the treadle set cross-member D does not have any holes drilled through it or notches.

Cross-members A, B, C and D must be affixed with 3/8” x 5” (10mm x 125mm) machine bolts, steel washers and 3/8” square nuts.

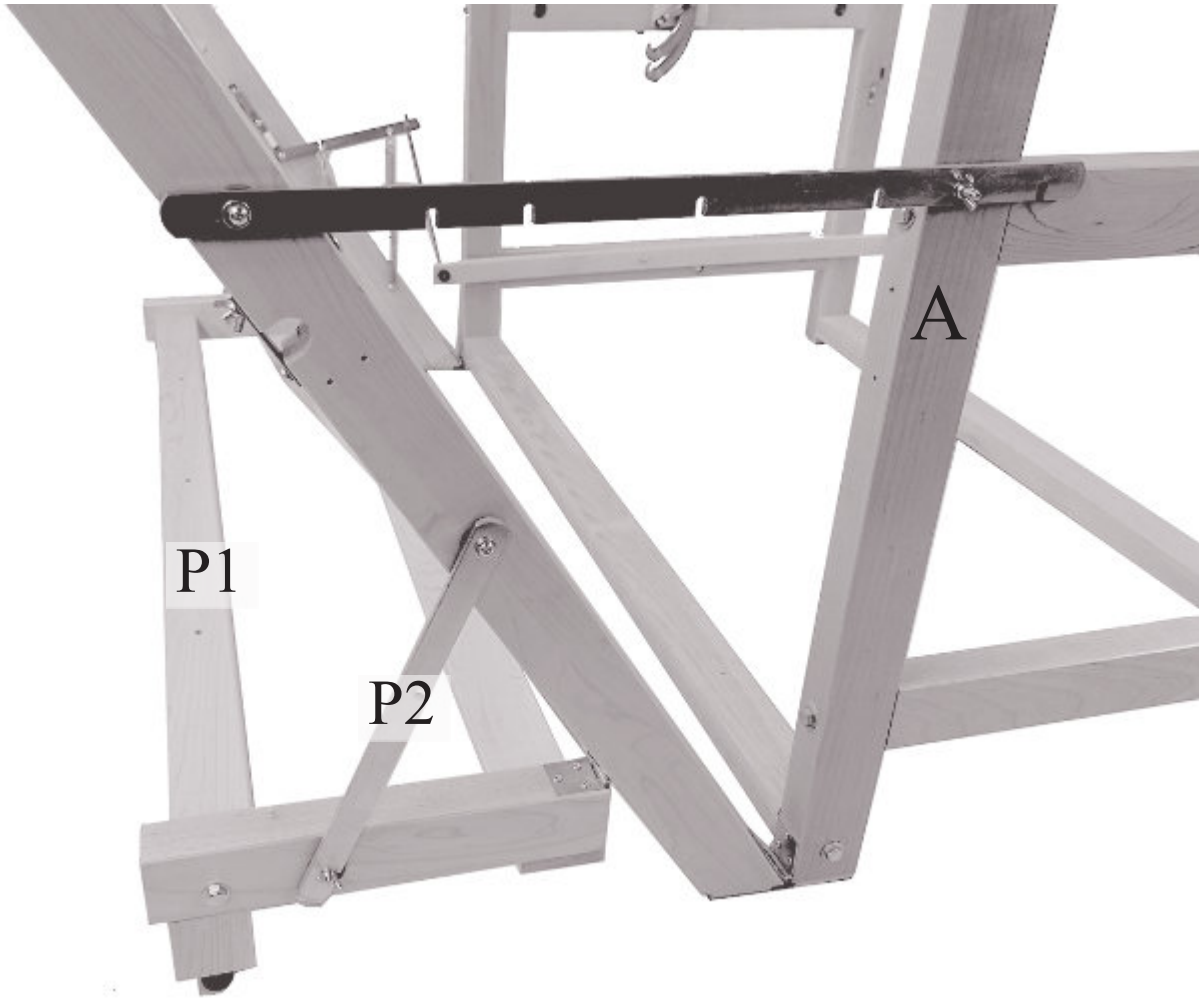


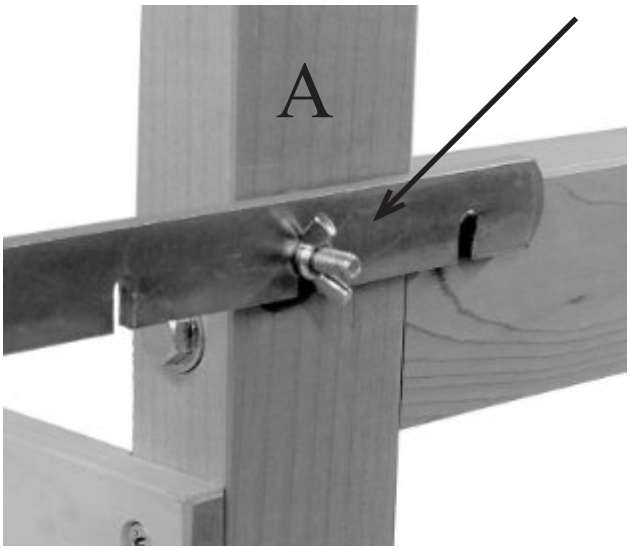
Insert the tenons at the other end of the cross-members A, B, C and D into the mortises of left-hand side E of the loom.

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

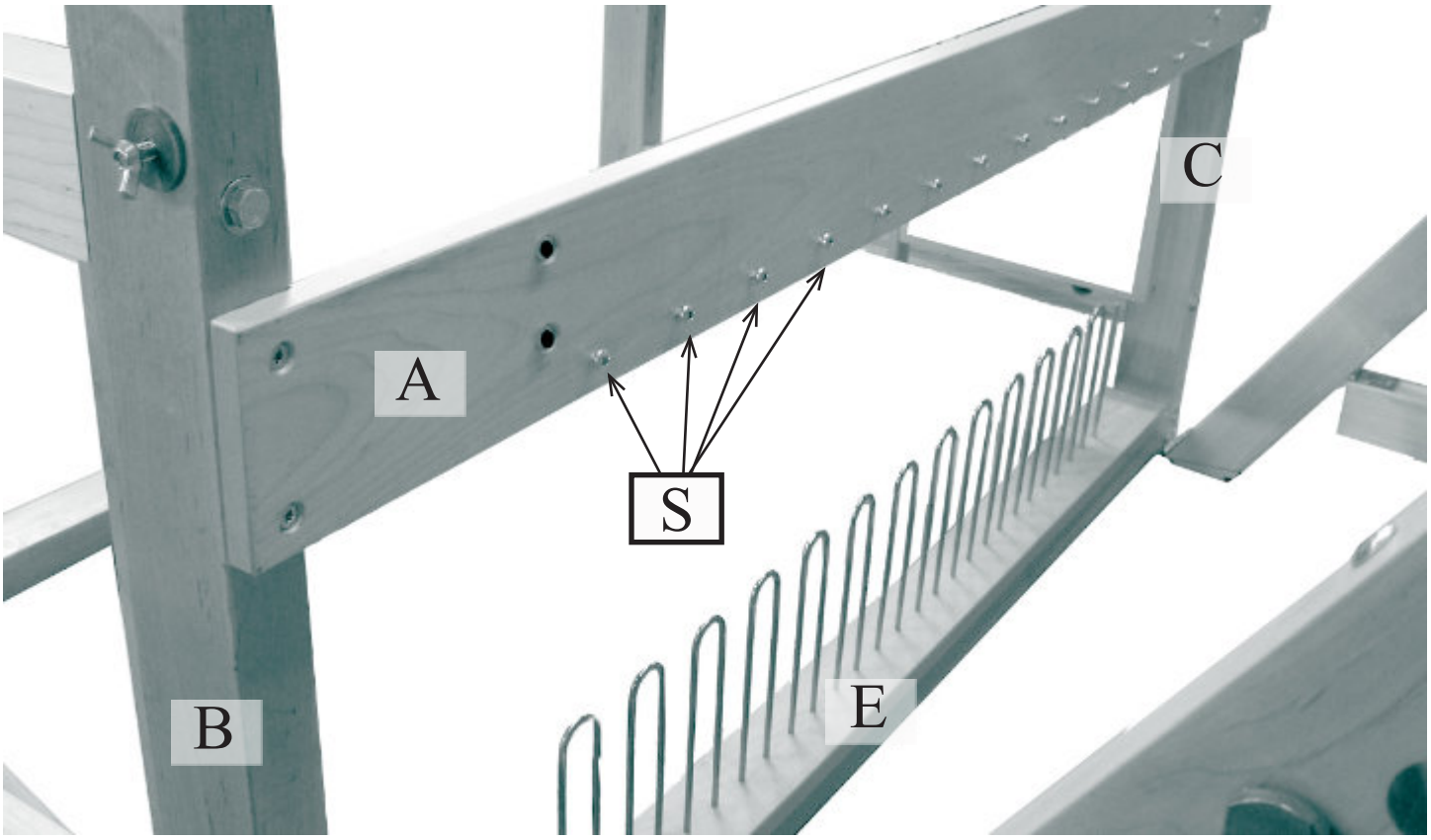


Partly fold the 2 back post (B) both back and using six #8, 1” flat-headed screws, affix the back hinge treadle support assembly (T) to the back post of the loom.



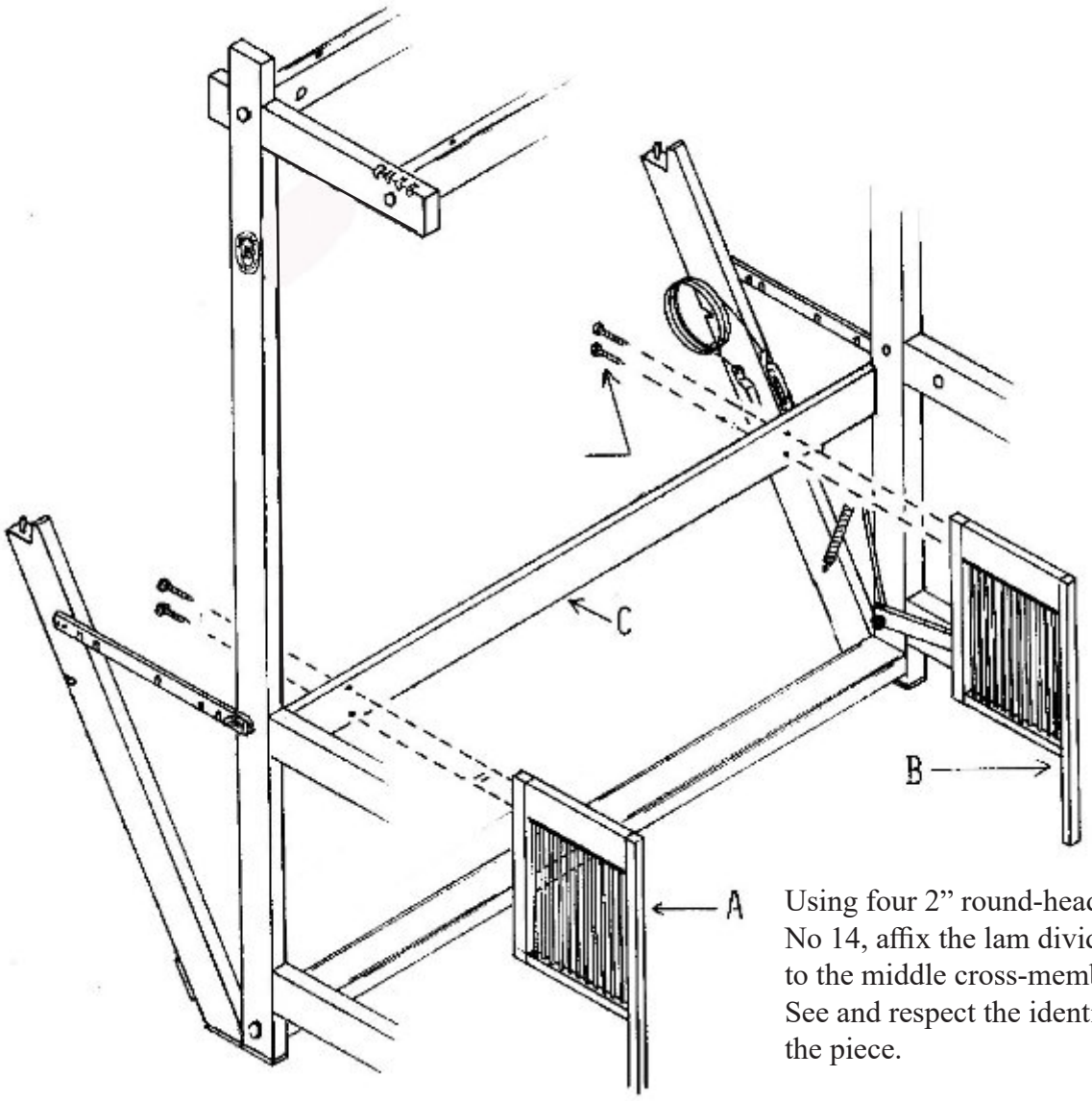


Affix the connecting hook (P1) to the back post and the hook (P2) to the treadle support



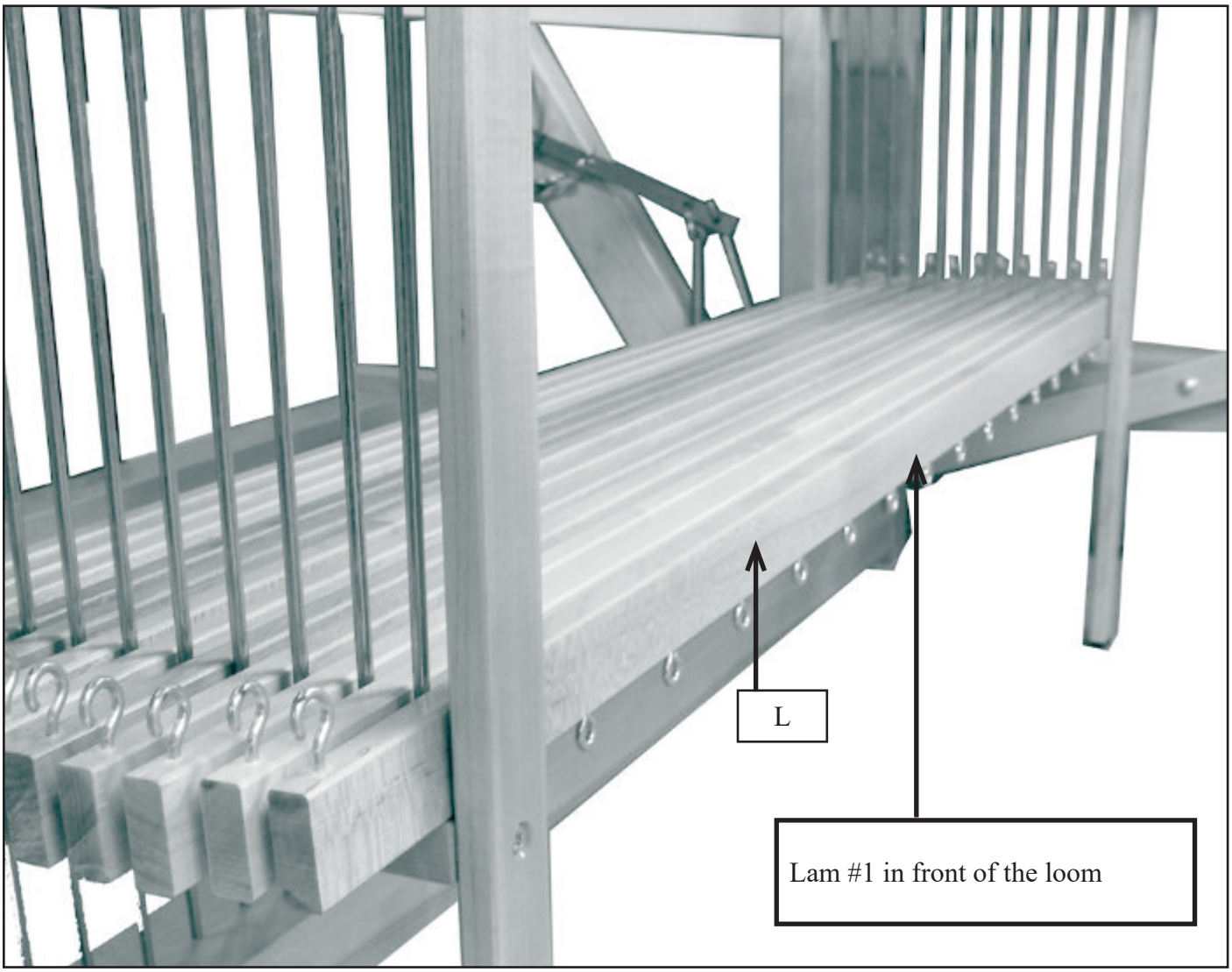
Using four 1 1/2” (40mm) flat-headed screws No. 12, affix the middle cross-member (A) to the rear of the middle posts B and C.
The screws (S) are facing the back of the loom and are in the lower part of the board.

With 2 rounded head screws no 8, 1½", affix the treadle separator (E) to the middle cross member of the loom. make sure to screw it to the pre-drill holes and the middle cross-member.



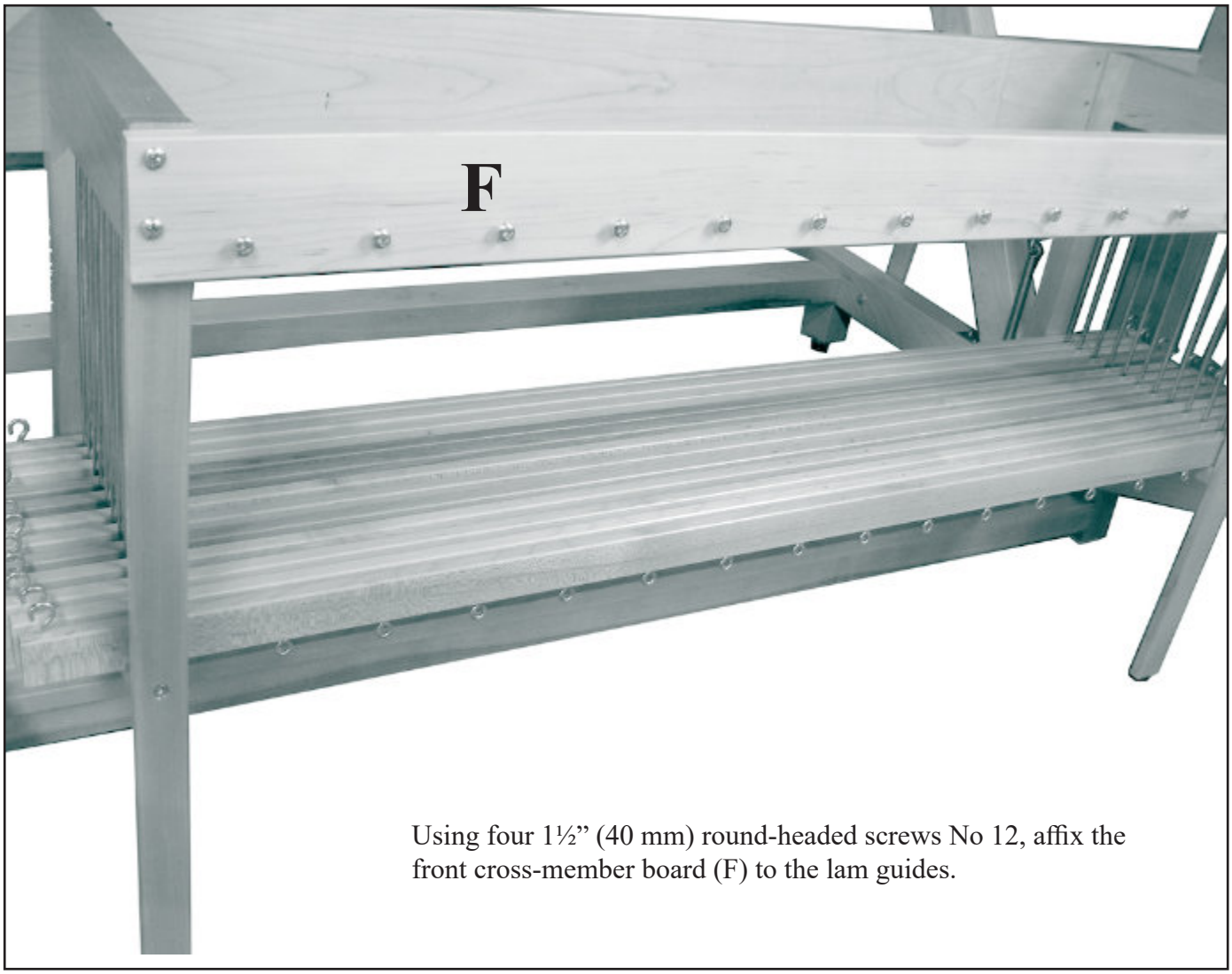
Using four 2” round-headed screws No 14, affix the lam dividers A and B to the middle cross-member C.
See and respect the identification on the piece.

Note: For the 12s loom, insert between the guides lams #12 and #11 before fixing the second lam dividers.

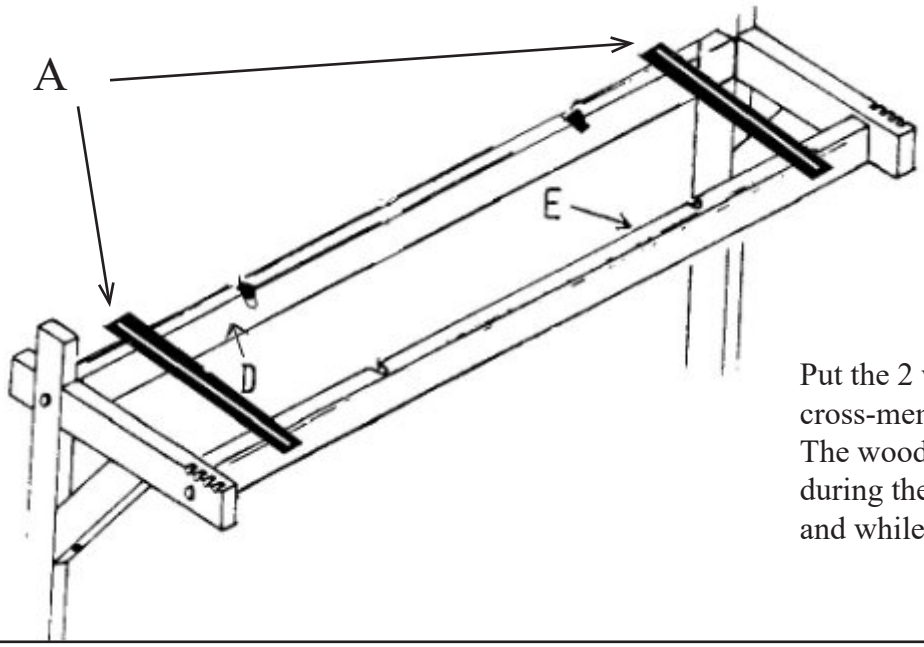


Install lams (L) between the lam dividers (A) and (B), starting at the front.

NOTE: The upper side of the lam has one eyescrew on both ends.

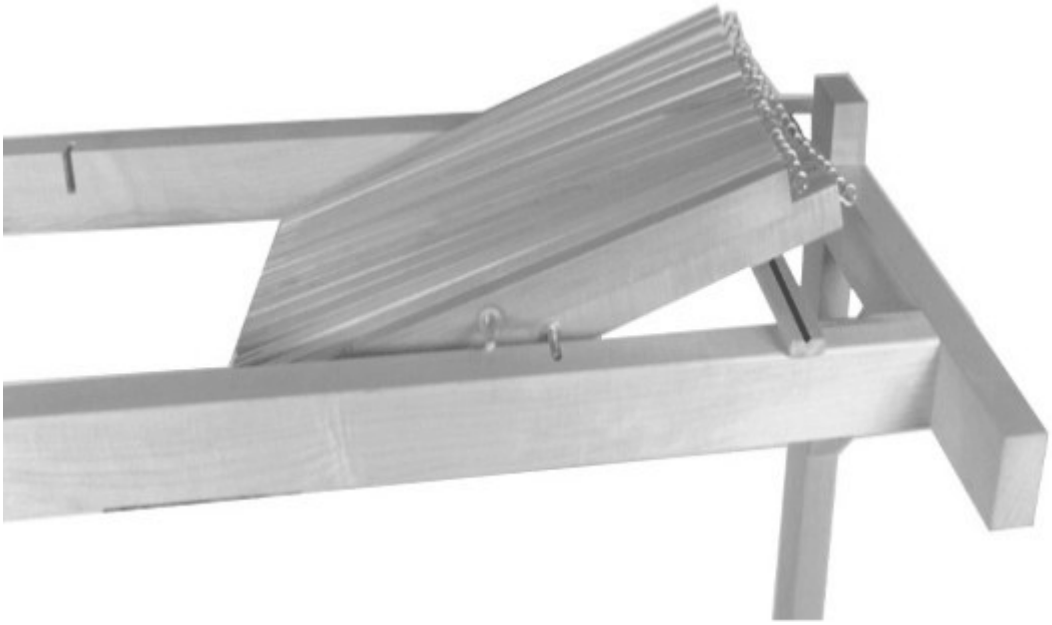


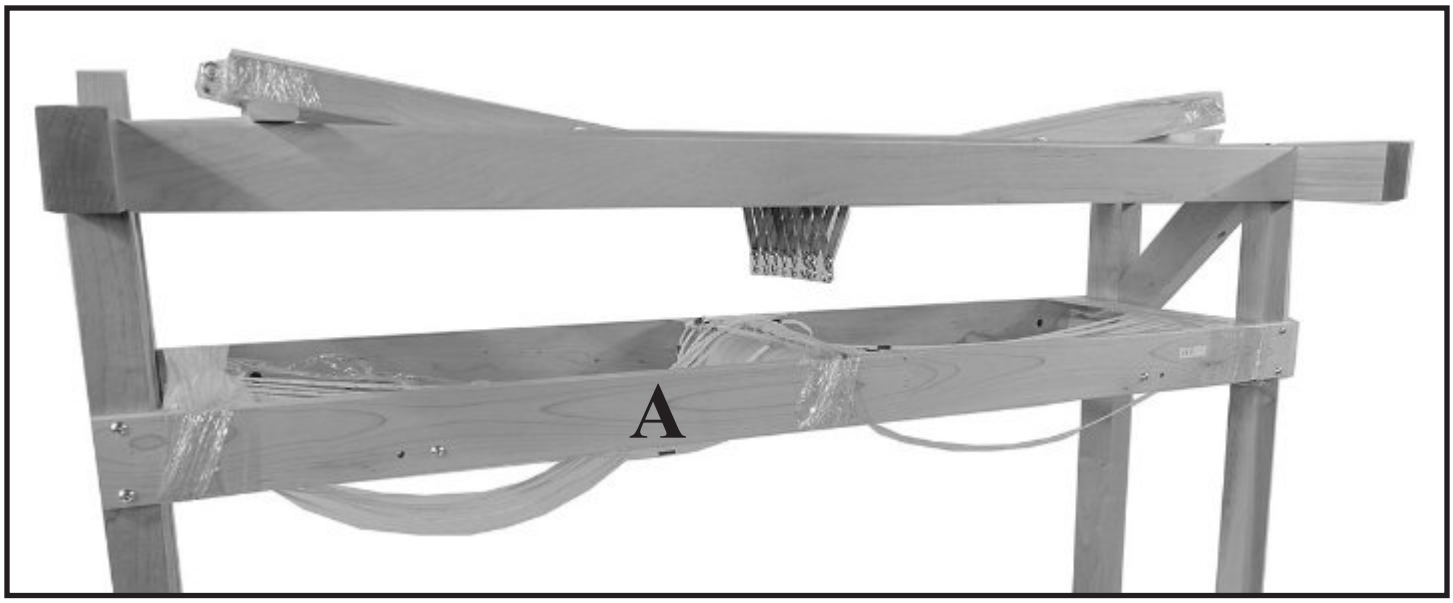
Using four 1½” (40 mm) round-headed screws No 12, affix the front cross-member board (F) to the lam guides.



Put the 2 wooden bars A onto the upper cross-members D and E.
The wooden bars are used to lock the jacks during their installation of the shaft frames and while threading.

After removing the MIDDLE saran wrap over the jack assembly, place them to the right side of the upper cross-member inserting the ends of the lower metal jack rods into the notches of the cross-members.
Unfold the jack set and insert the ends of the left metal jack rods into the left notches of the cross-member.





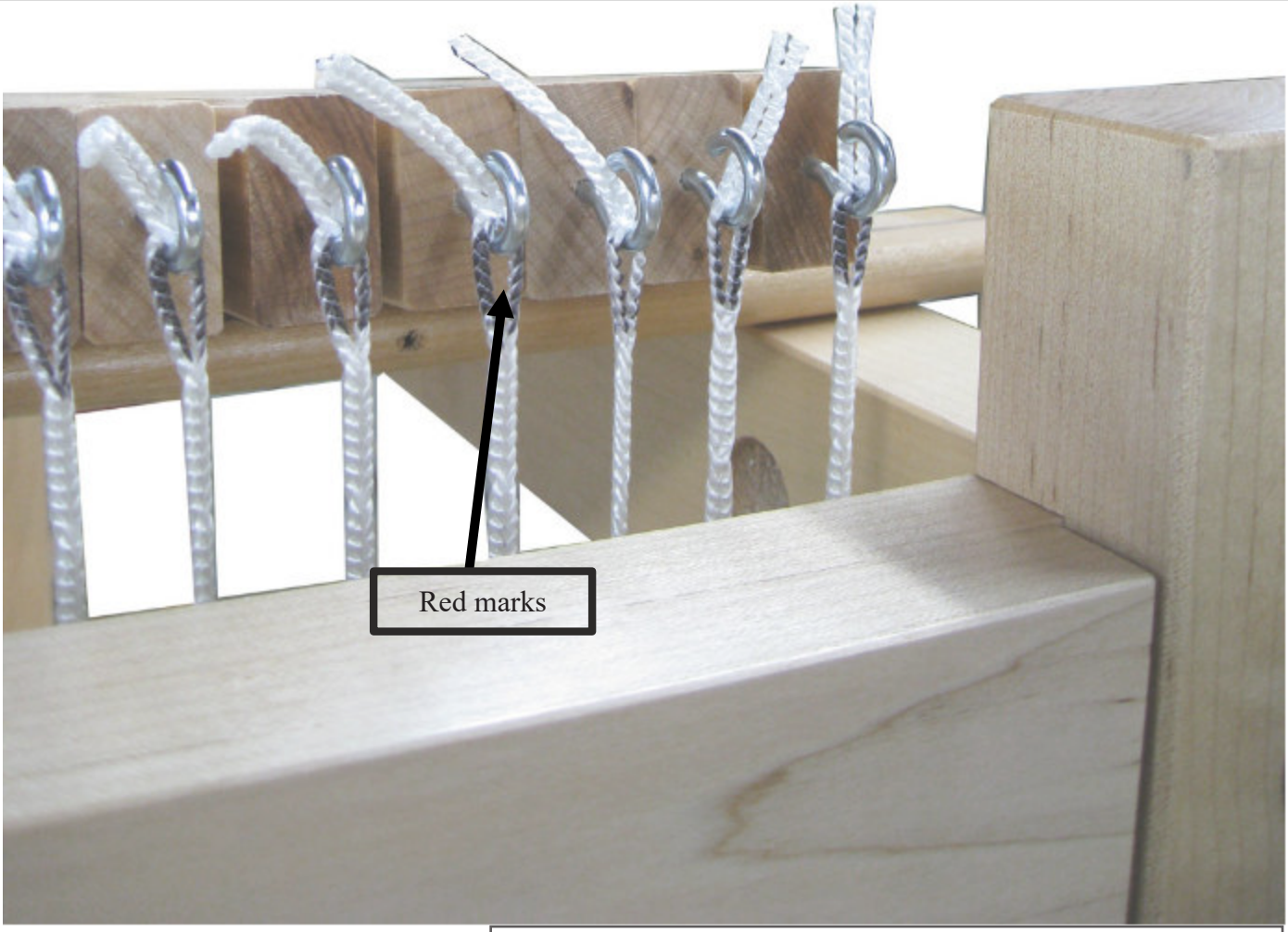
Affix the pulley box (A) to the uprights using 8 rounded head screws #12 1½" Do not remove the Saran wrap until it is in the loom.

The front side is indicated to the front board.

All the loop cord ends have to be on the top side.

Remove Saran wrap and thread all the loop cords down to the lams. Make sure to connect the right loop cord to the right lam.

It is a good idea to: Install the heddles in the shaft frames.
(see "WARP AND WEAVE" on page 10)



SHAFT FRAME INSTALLATION

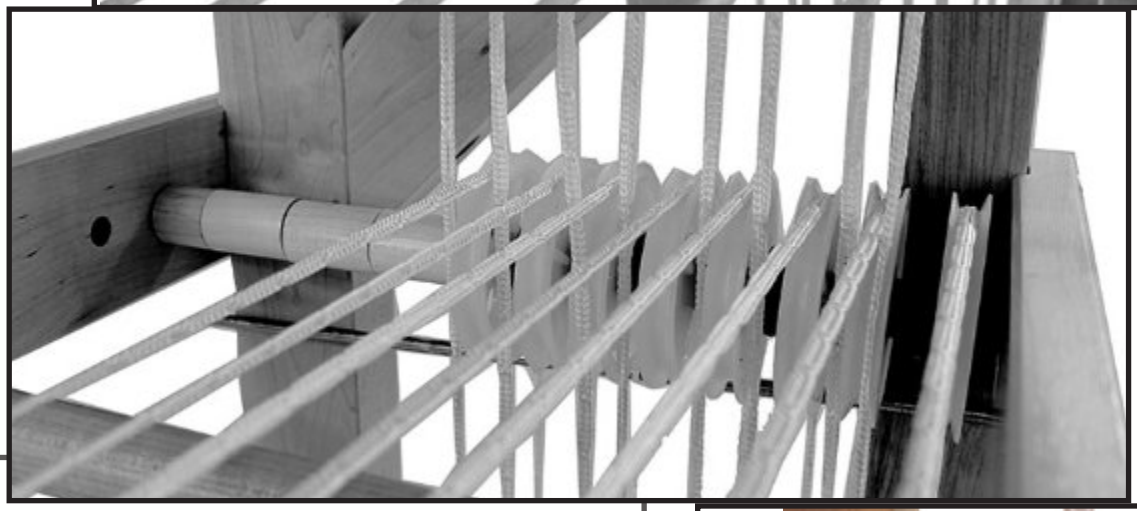
The following operation must be done on one shaft frame at a time.

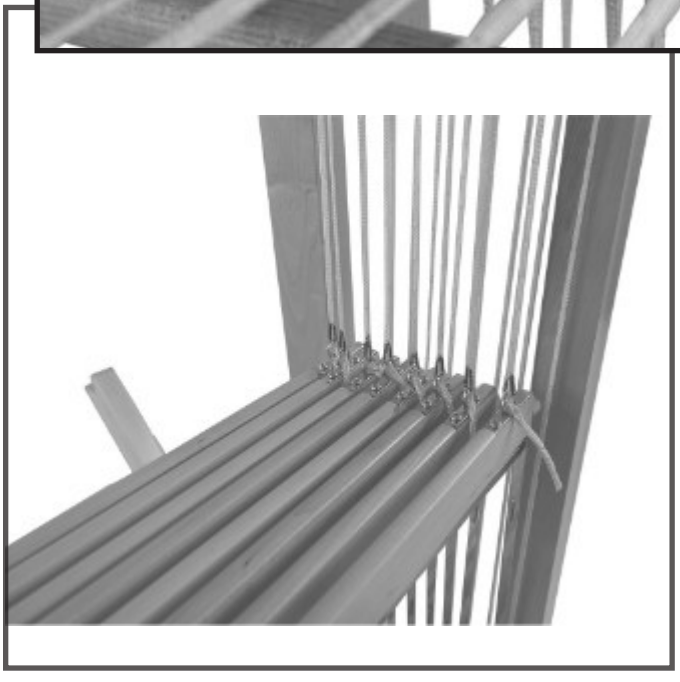
NOTE: Always place the Leclerc Logo of the shaft frame facing the front (top) of the loom.

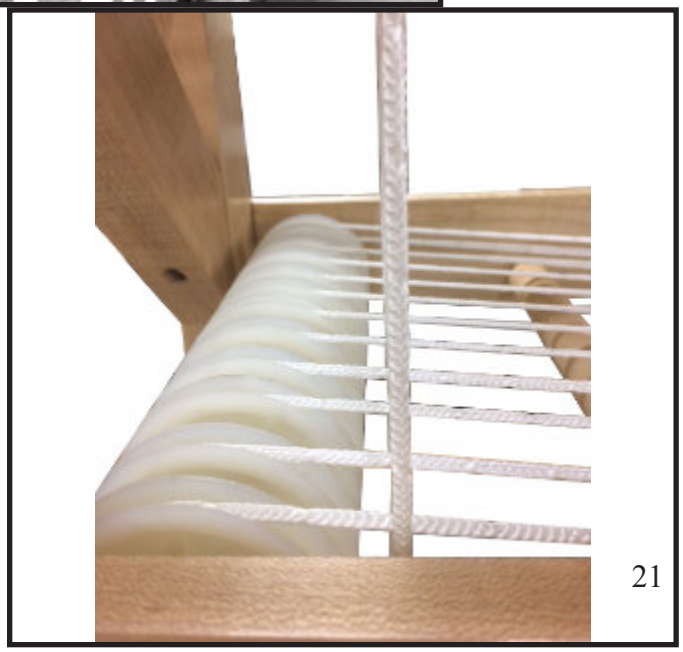
Connect shaft frame to Jacks, using the loop cords 24".

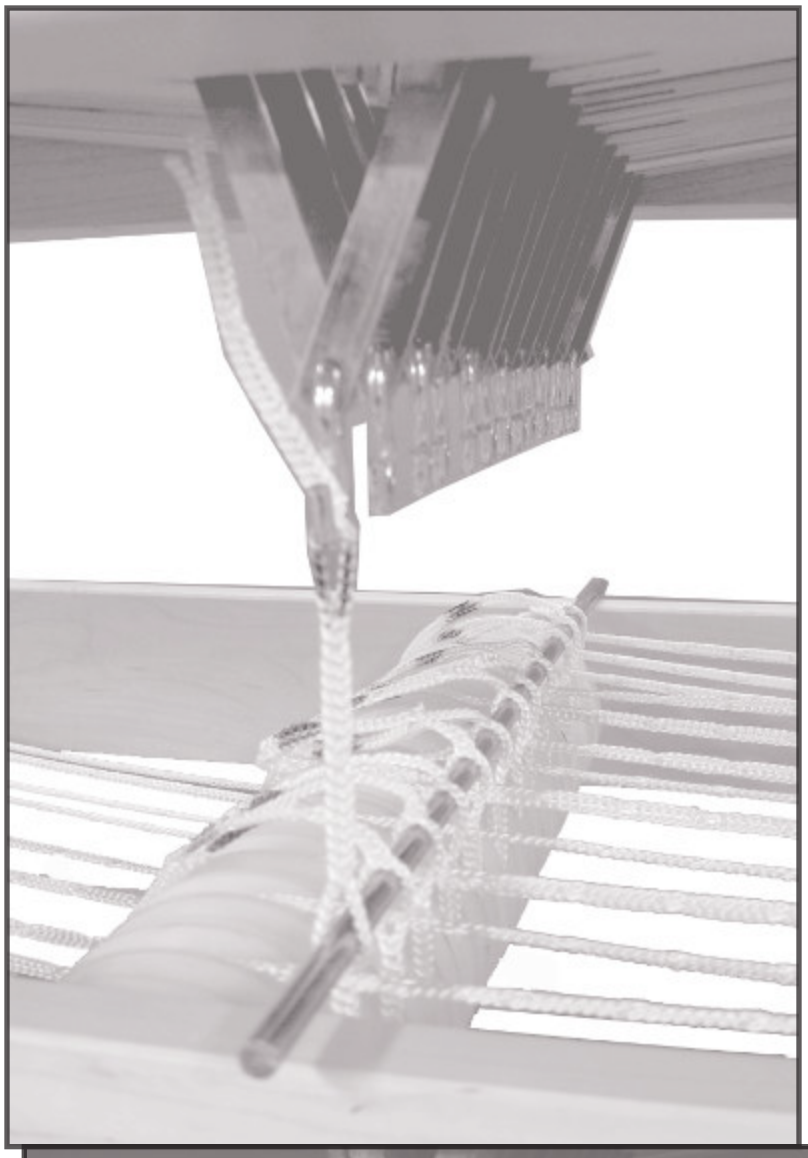
The black marks to the shaft frame and the red marks to the jacks

See also the next page....



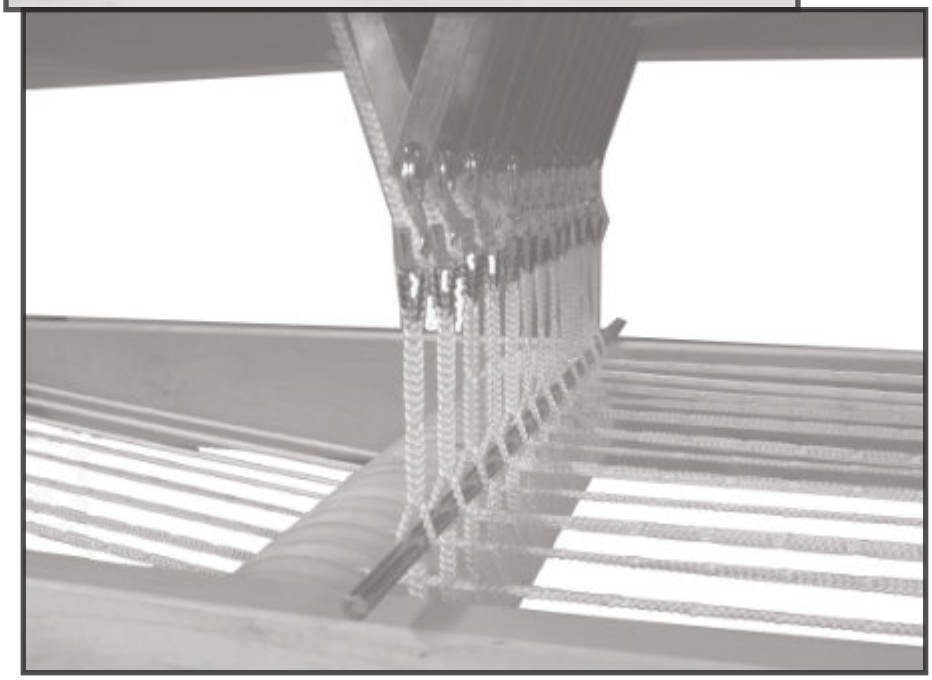




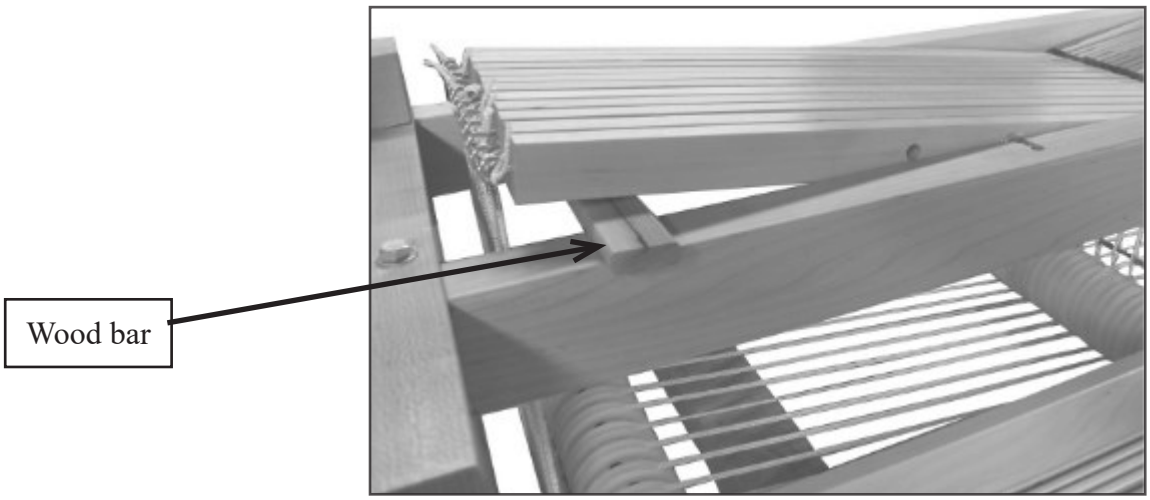


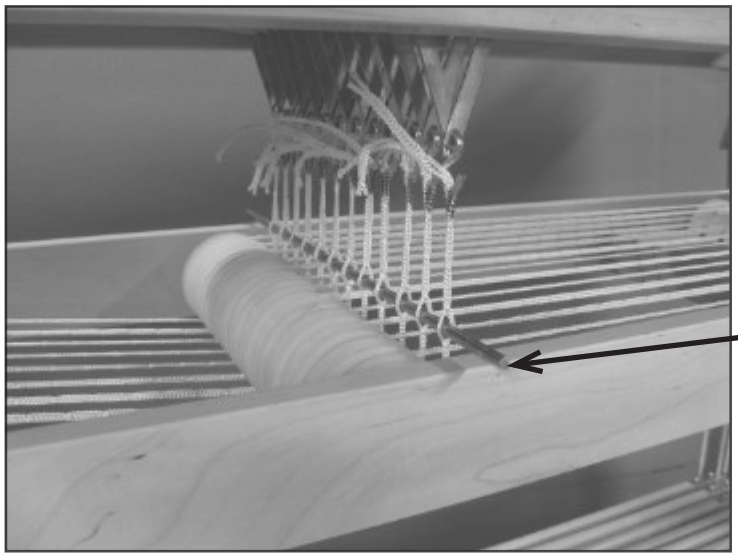
Attach each middle cords to the upper S hooks.
#1 cord to #1 S hook
#2 cord to #2 S hook
etc...

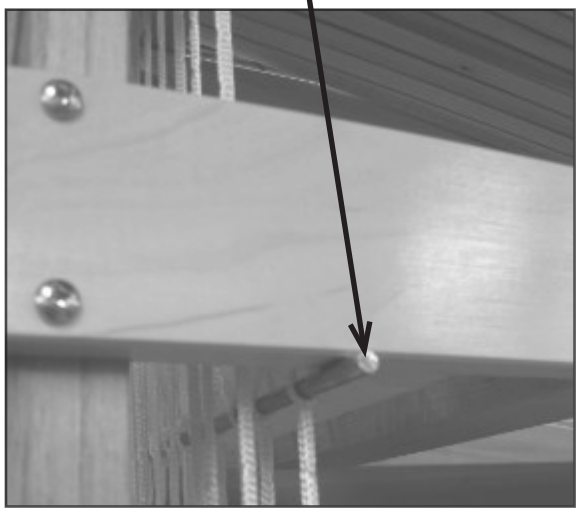
Do not remove the metal rod

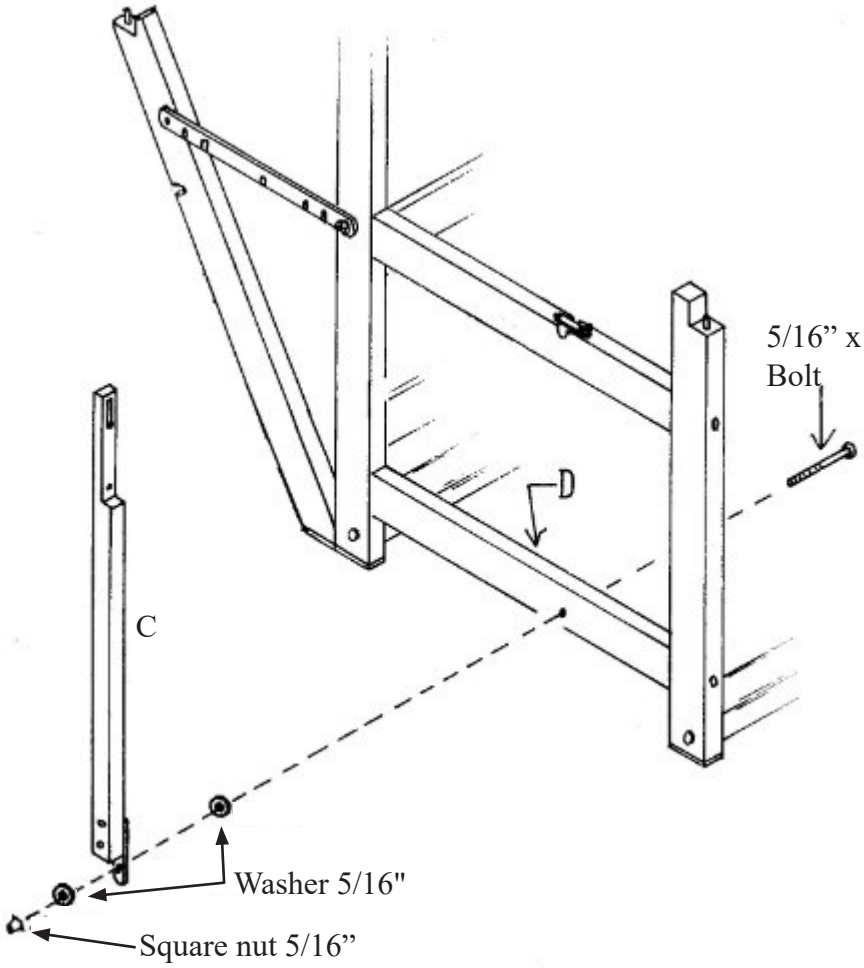


You can now remove all tree rods (pull out)
and the two wood pieces under the jacks.





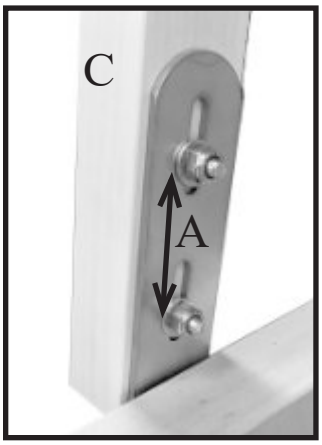




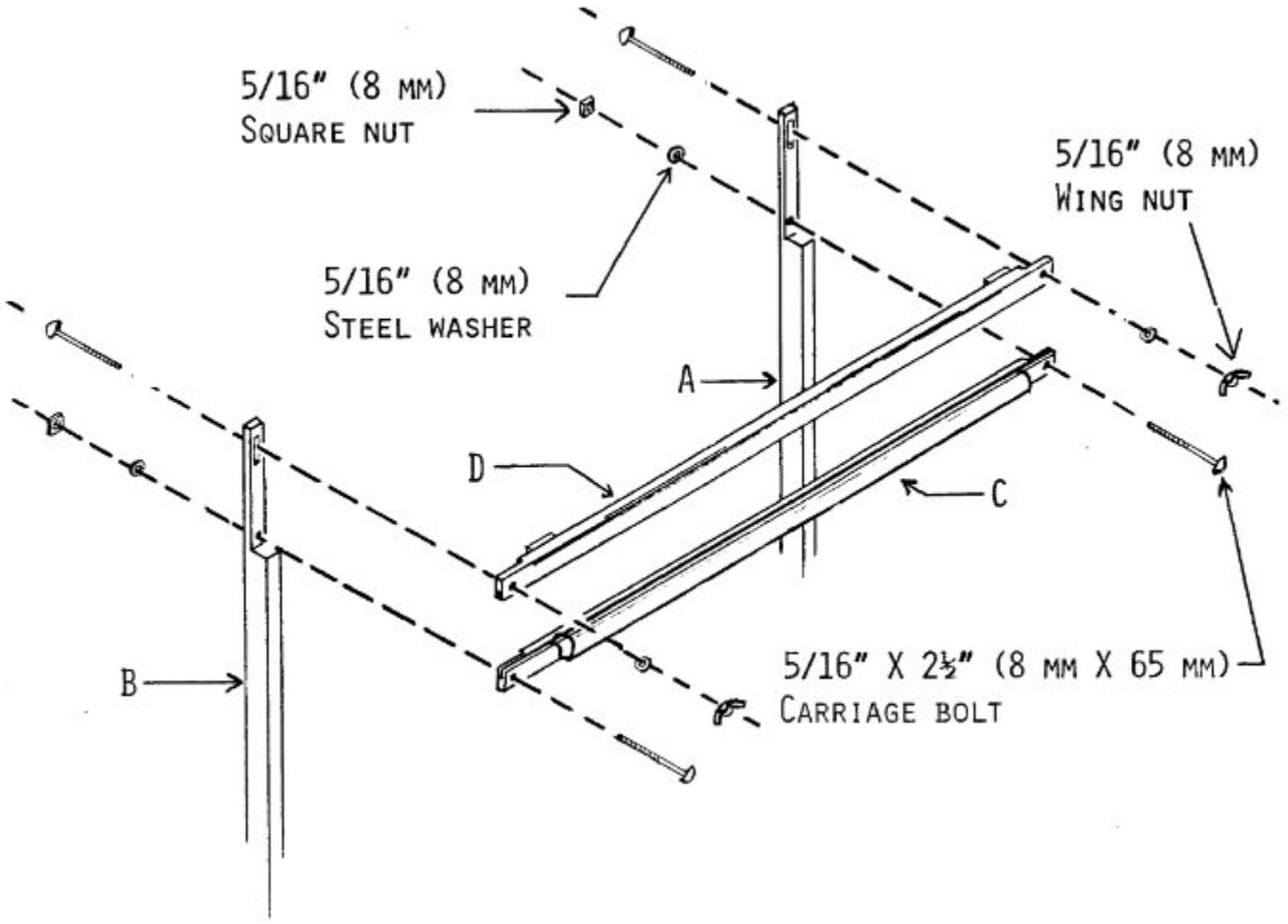
Affix batten swords C to lower lateral cross-member D, using two 5/16” x 2¼” carriage bolts, 4 steel washers 5/16", and two 5/16” square nuts.

Place a steel washer between the sword and the cross-member and also one between the auto lock nut and the sword.

NOTE: Hammer the carriage bolt inside the hole so it will lock while you will screw in the auto lock nuts.



When you are ready to weave, you can make a final adjustment to the beater height with the sword plate (A).



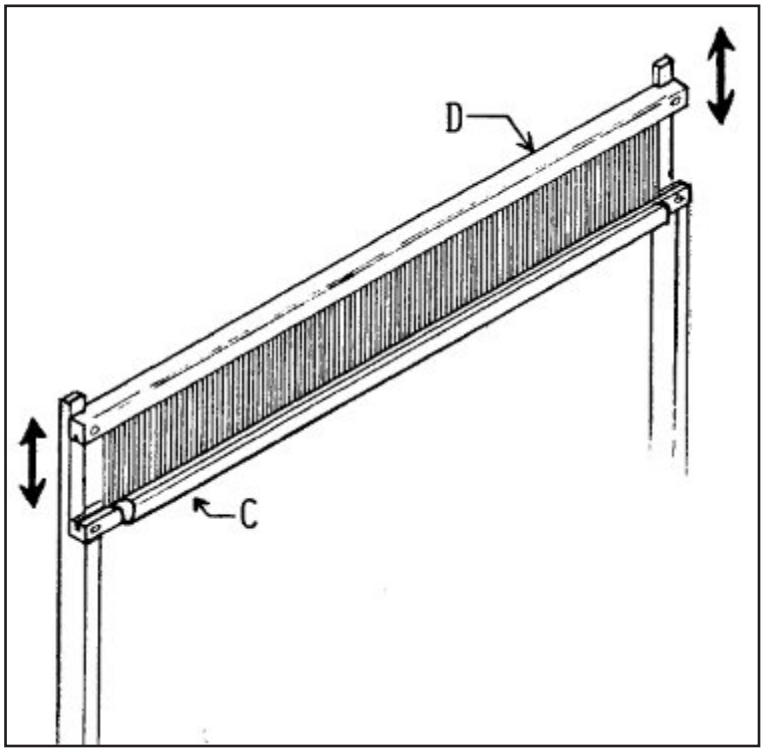
Using two (2) 5/16” x 2½” (8 mm x 65 mm) carriage bolts, two 5/16” (8 mm) steel washers, and two square nuts, affix batten sley C to the lower holes of swords A and B.

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

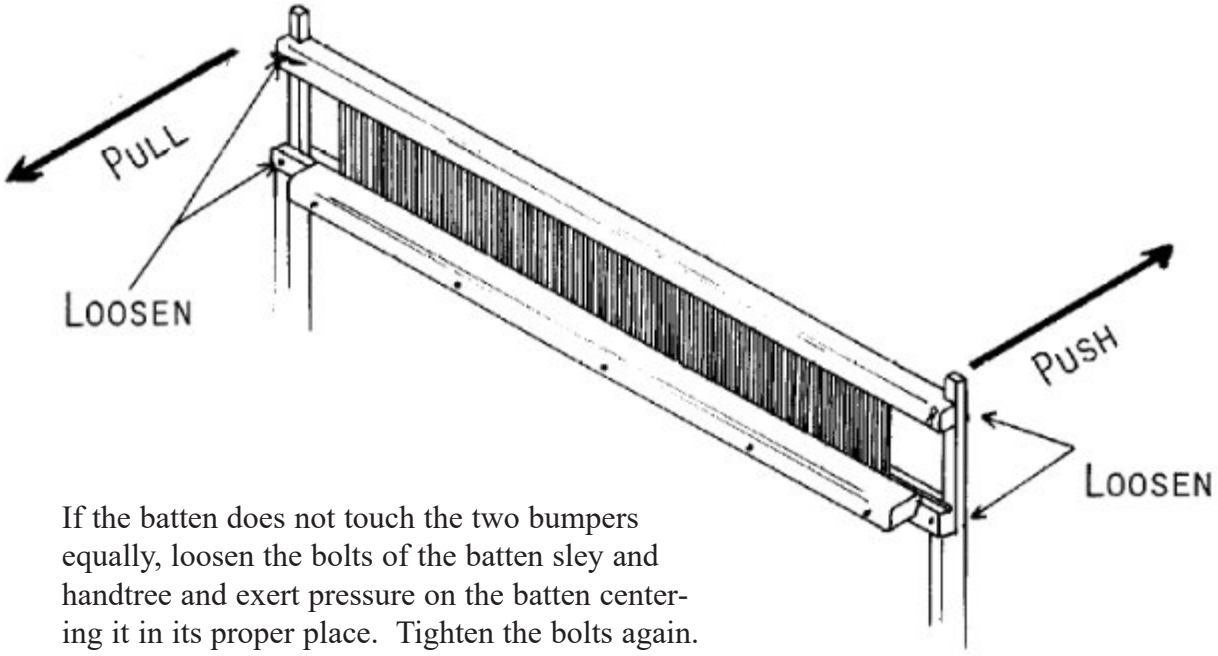
Using two 5/16” X 2’½” (8 mm X 65 mm) carriage bolts, two 5/16”’ (8 mm) steel washers, and two wing nuts, affix batten handtree D to swords A and B.

NOTE: The batten handtree has polyvinyl bumpers.

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



Place the reed between batten sley C and handtree D.
When the wing nuts are loose, the batten handtree can slide vertically in the sword slots. The reed must then be secured between the batten sley and handtree by tightening the wing nuts.

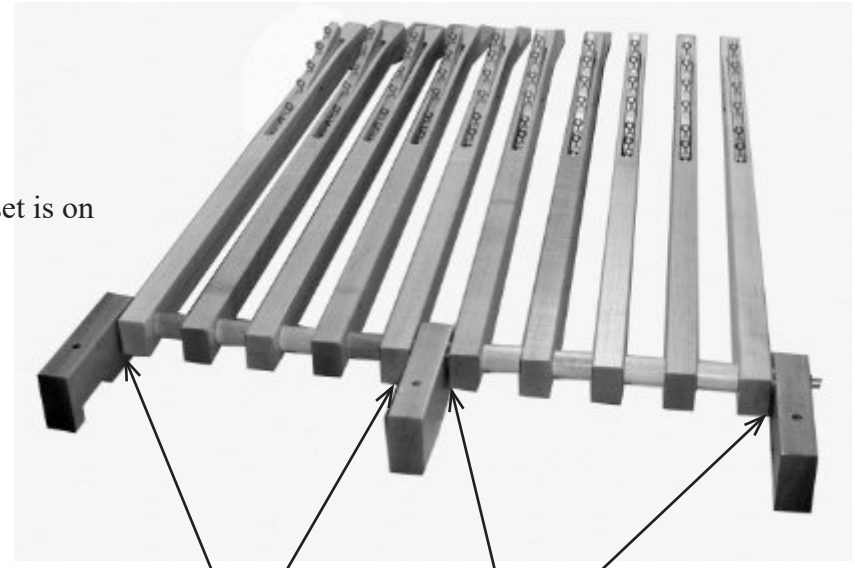


If the batten does not touch the two bumpers equally, loosen the bolts of the batten sley and handtree and exert pressure on the batten centering it in its proper place. Tighten the bolts again.

TREADLE SET ASSEMBLY 8s

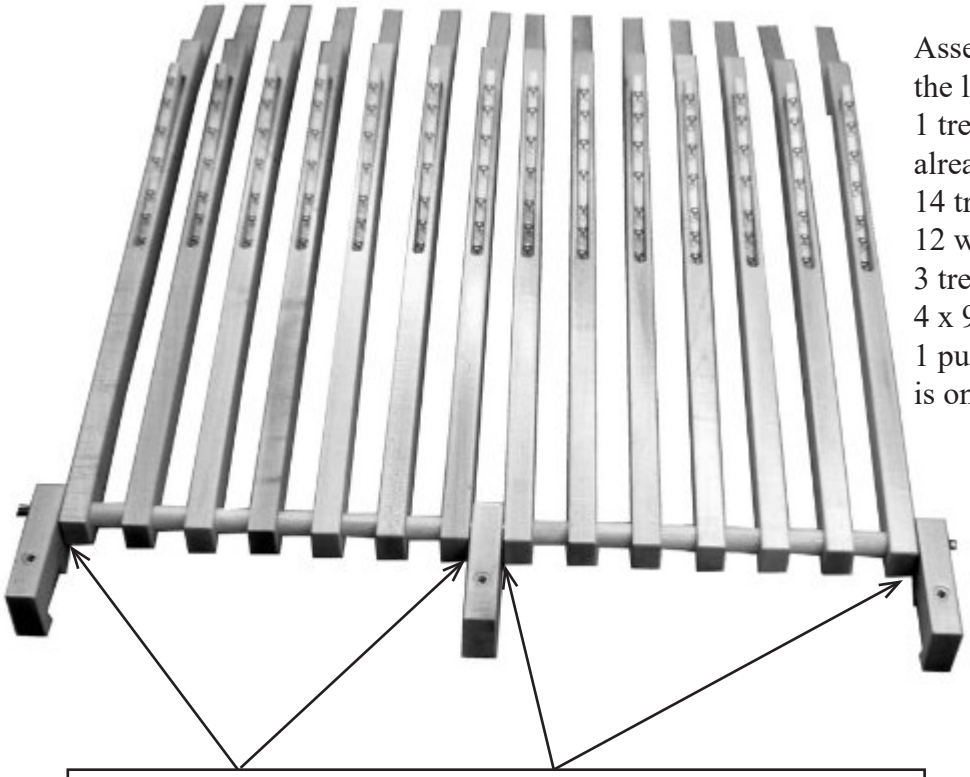
Assemble the treadle set (in or out of the loom).

1 treadle rod ??¾" with one push nut already on one side.
10 treadles
8 wood spacers 1½"
3 treadle blocks
4 x 9/16" washers
1 push nut to be installed after the set is on the loom.



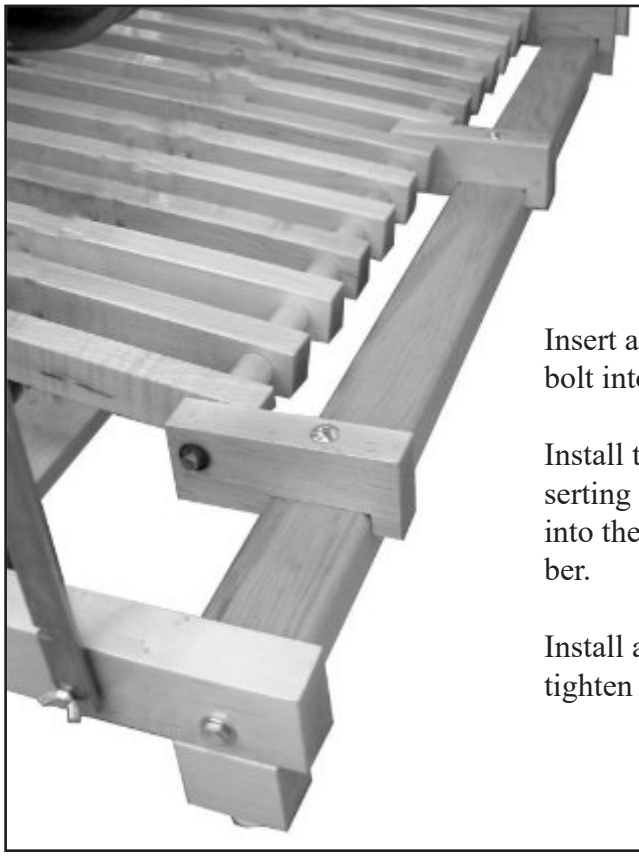
4 washers 9/16" are installed between treadle and treadle block.

TREADLE SET ASSEMBLY 12 Loom



Assemble the treadle set (in or out of the loom).
1 treadle rod 28¾" with one push nut already on one side.
14 treadles
12 wood spacers 1½"
3 treadle blocks
4 x 9/16" washers
1 push nut to be installed after the set is on the loom.

4 washers 9/16" are installed between treadle and treadle block.



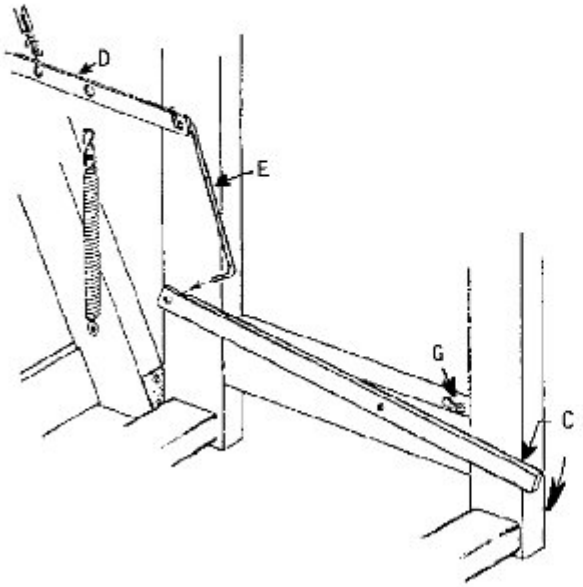
Insert a 5/16" x 4½" (8mm x 95mm) carriage bolt into each of the three treadle set supports.

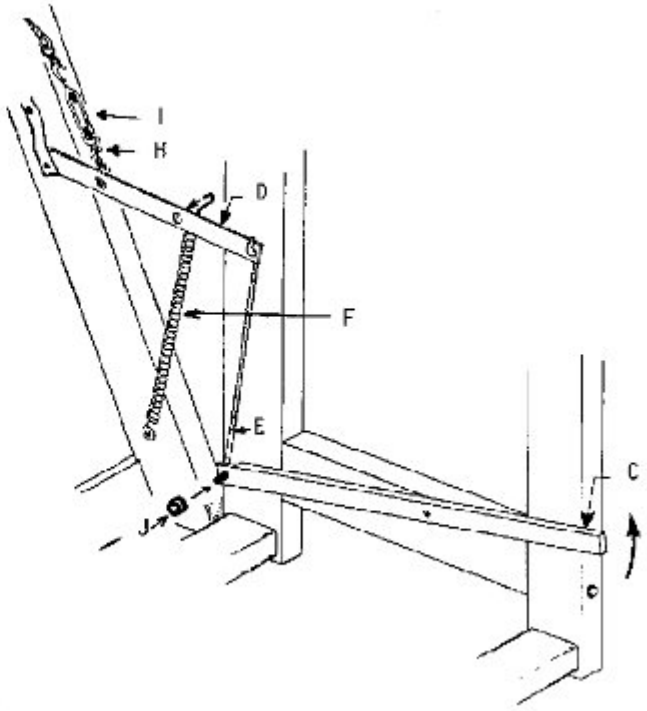
Install treadle set on the cross-member by inserting the three 5/16" x 4½"carriage bolts into the appropriate holes of the cross-member.

Install a 5/16" (8mm) washer underneath, and tighten with the square nuts.

You can install now or just before weaving the treadles springs.
- The clip goes to the eyescrew of the treadle.
- The loop cord black mark to the top screw.

After the installation, the treadles will be all at the same height.





Using metal rod E, 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.

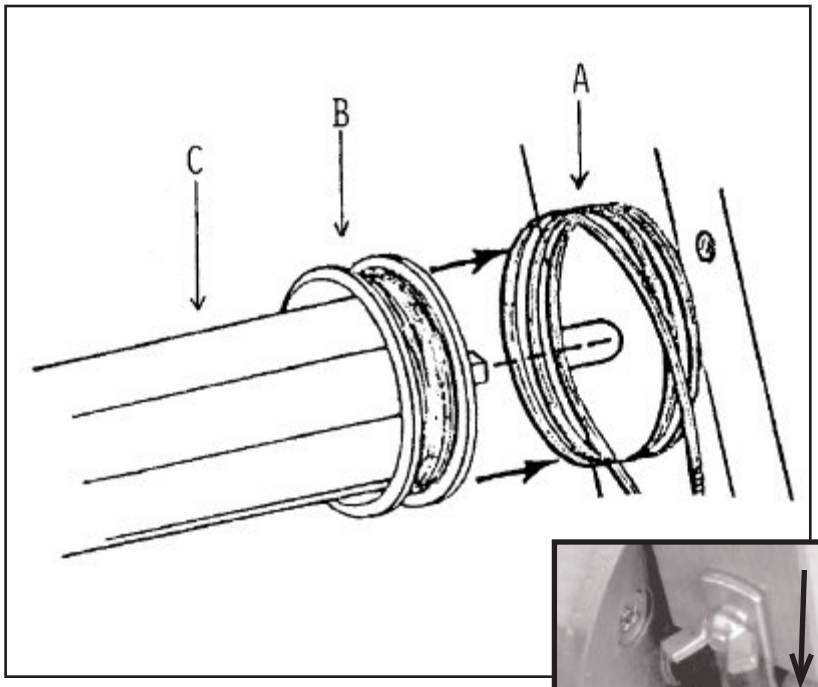
Raise (back part) treadle C as high as possible then hook spring F to lever D.

BRAKE ADJUSTMENT:
Release the brake by depressing treadle C and locking it down with the catch G. The warp beam should turn freely but the circular brake wire should not be too slack. If the
tension is too great, unscrew the wing nut H slightly and then loosen the turnbuckle I. If the tension is too slack, tighten the turnbuckle I slightly and then the wing nut H.

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

BEAMING
Release the brake by depressing the brake treadle (C) and locking it down with catch (G).

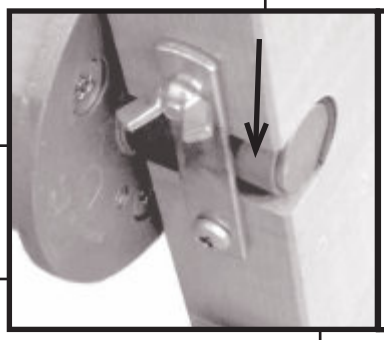
WEAVING
To advance the warp, depress brake treadle (C) and turn cloth beam (H) at the same time. Then, release brake treadle (C) (engaging the brake) and advance the cloth beam until the desired tension is achieved.



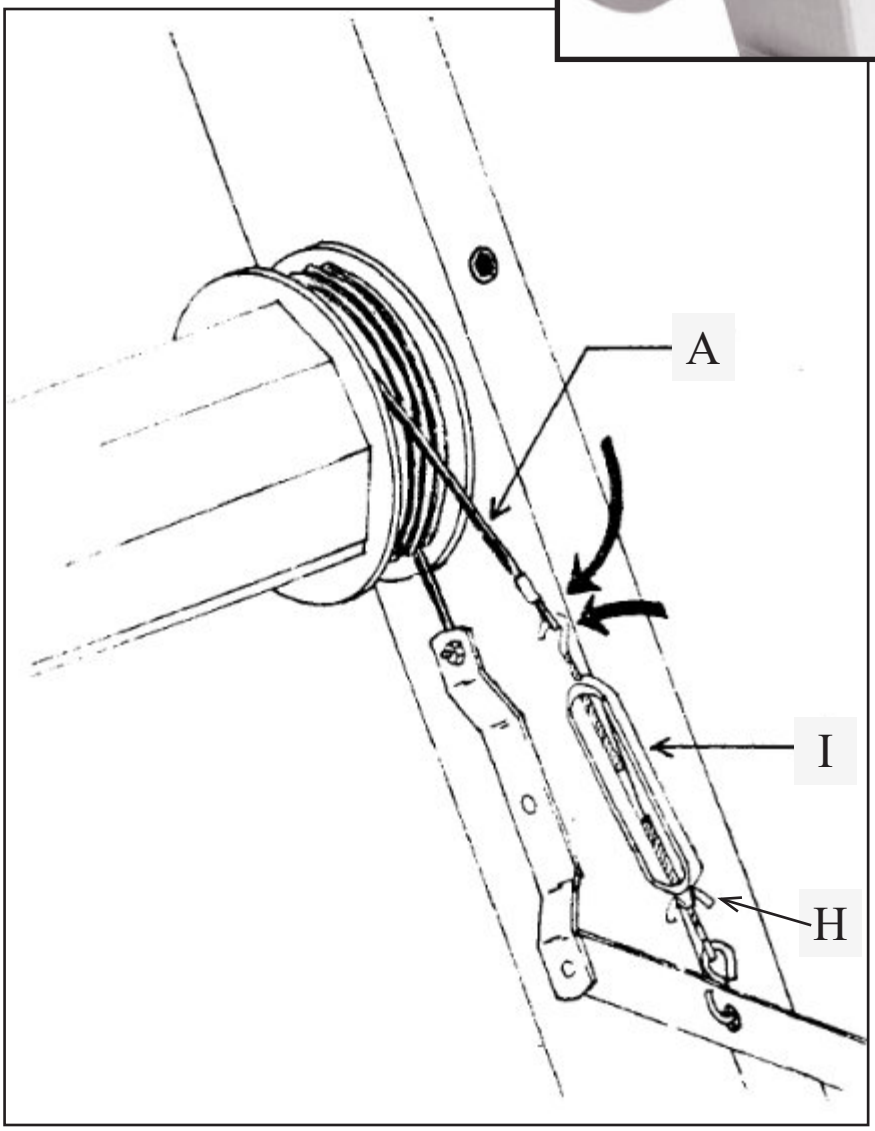
WARP BEAM INSTALLATION

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.

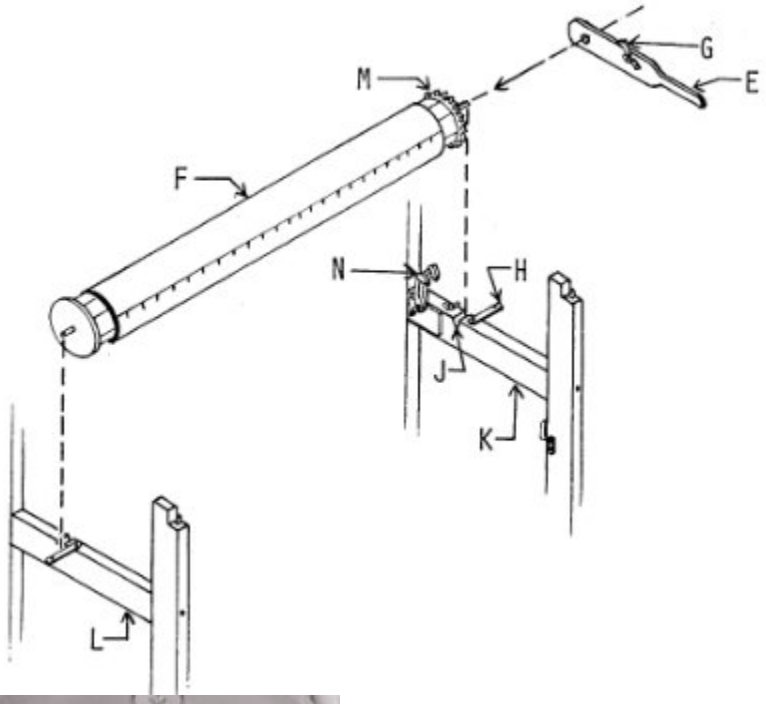


In order to improve the rotation of the warp beam, special bushings are supplied. Make sure to leave them in place when installing the warp beam on the loom.



Hook turnbuckle I to flat wire circle A.

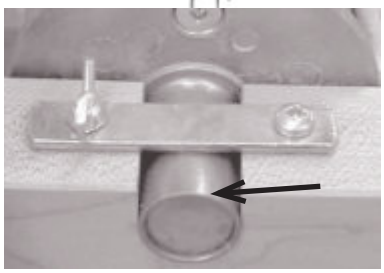
BRAKE ADJUSTMENT:
Release the brake by depressing the brake treadle and locking it down with the catch G.
The warp beam should turn freely but the brake circle should not be too slack. If the tension is too great, unscrew the wing nut H slightly and then loosen the turnbuckle I. If the tension is too slack or the beam is turning counterclockwise (while standing on the brake side of the loom) , tighten the turnbuckle I slightly and then the wing nut H.



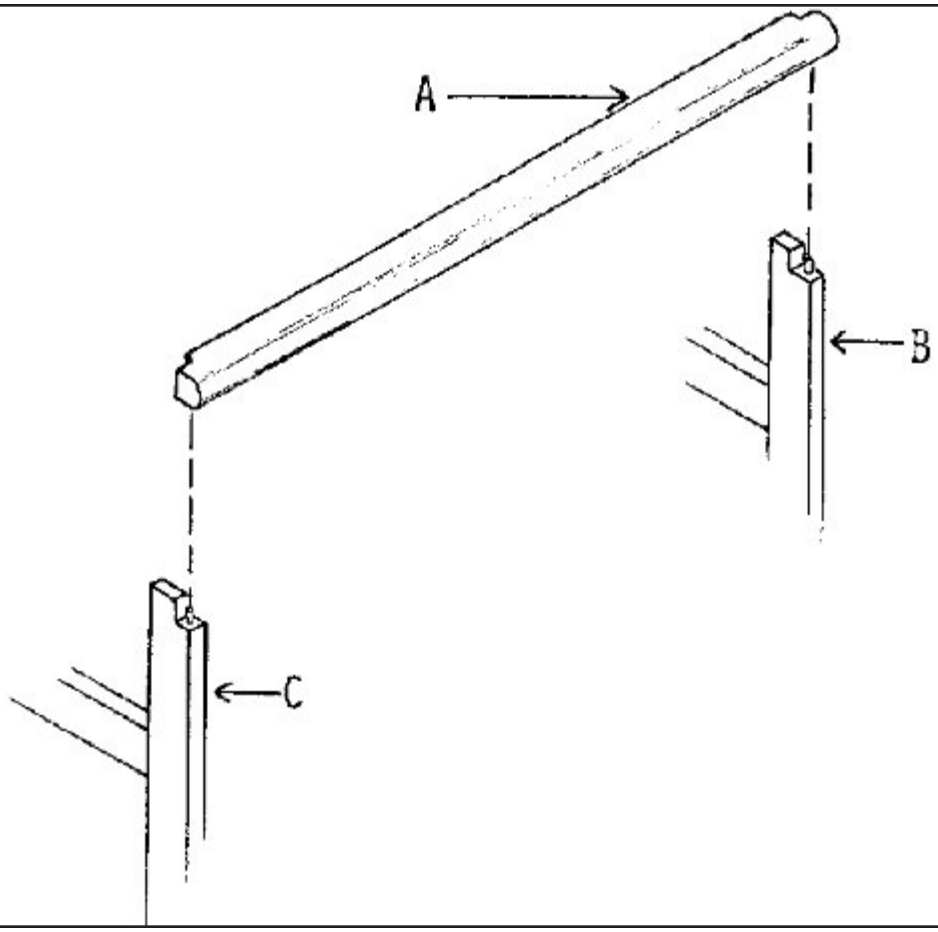
Install take-up motion handle E on the axle end of cloth beam F (on the same side as the ratchet gear). Ratchet pawl G of the take-up motion handle must be lifted up.

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.



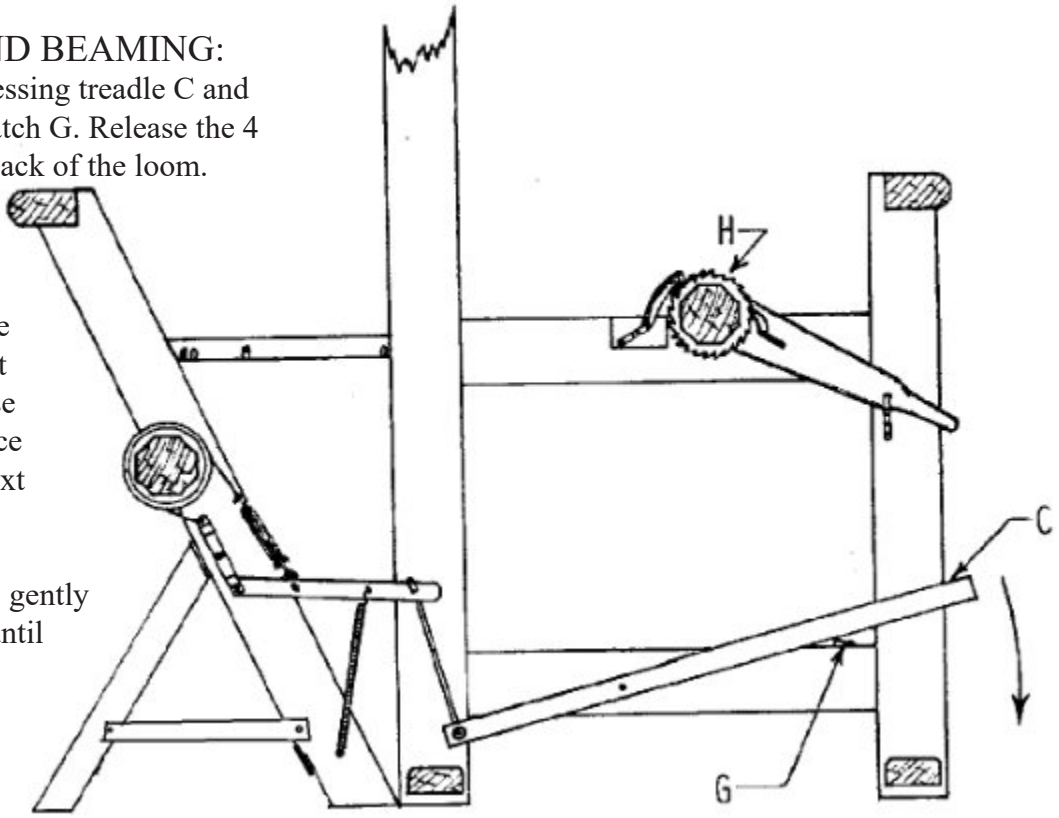
Affix one of the breast beams A on the top of the front posts B and C.

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.

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.



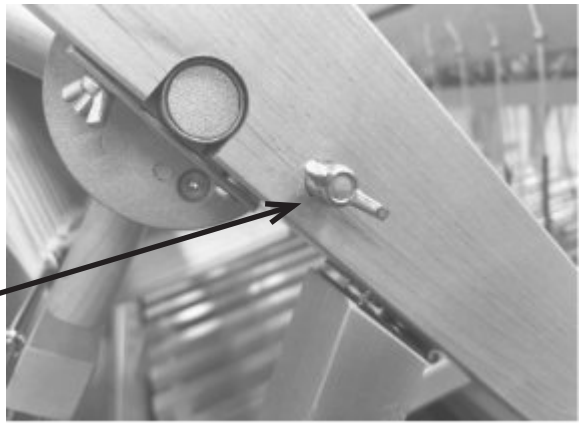
Note while winding a warp with a Leclerc Friction Brake

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.

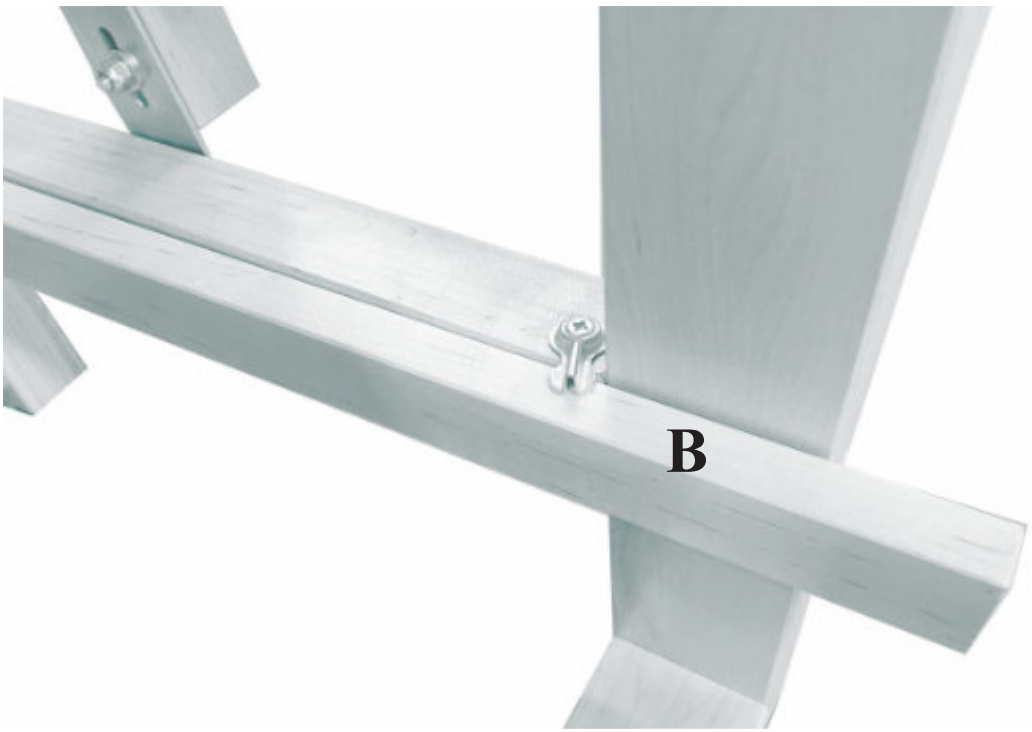
MORE INFORMATION:
See “WARP AND WEAVE”

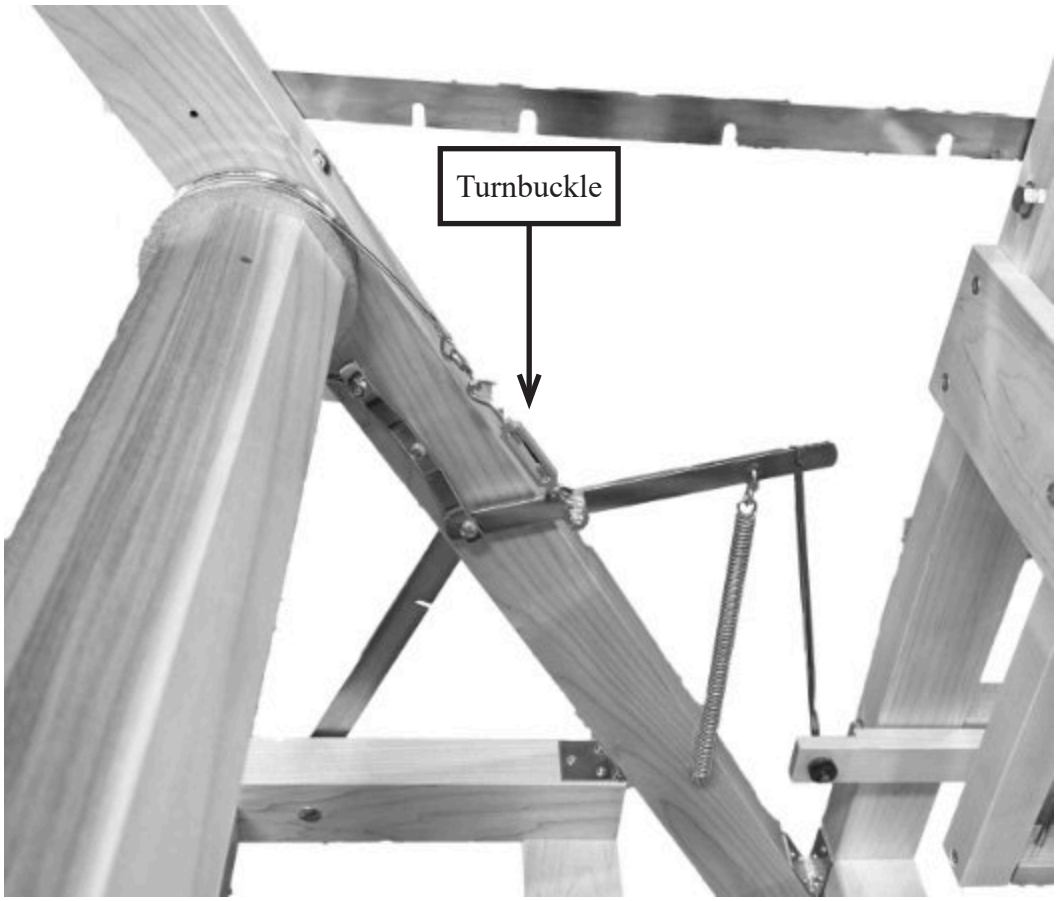
Install the Warp beam advance control system. This system will eliminate excessive warp yarn advance when releasing the brake system at cloth take-up.
This friction system is adjustable and have to be **released** when winding the warp on. +

Just screw the wing nut to increase the friction or unscrew it to release.



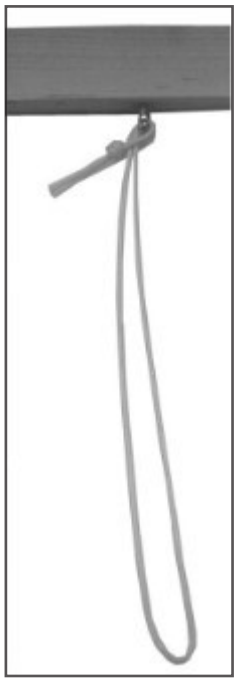
When warping the loom, lock the brake treadle (B) in the down position to release the tension on the brake circle. You may have to release more tension by unscrewing the turnbuckle.
Adjust the tension needed before weaving.





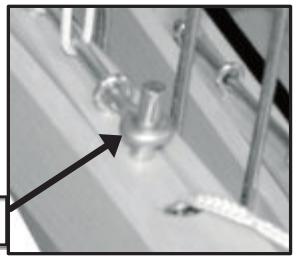
Thread the treadle cords to the eyescrews of the lams as shown in the pictures.

Slide the Treadle Hook through the Screw Eyes and Cord Loops. Before the last Screw Eye, insert the Hook through the Treadle Spring loop cord 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 tied up, they should be at the same height.



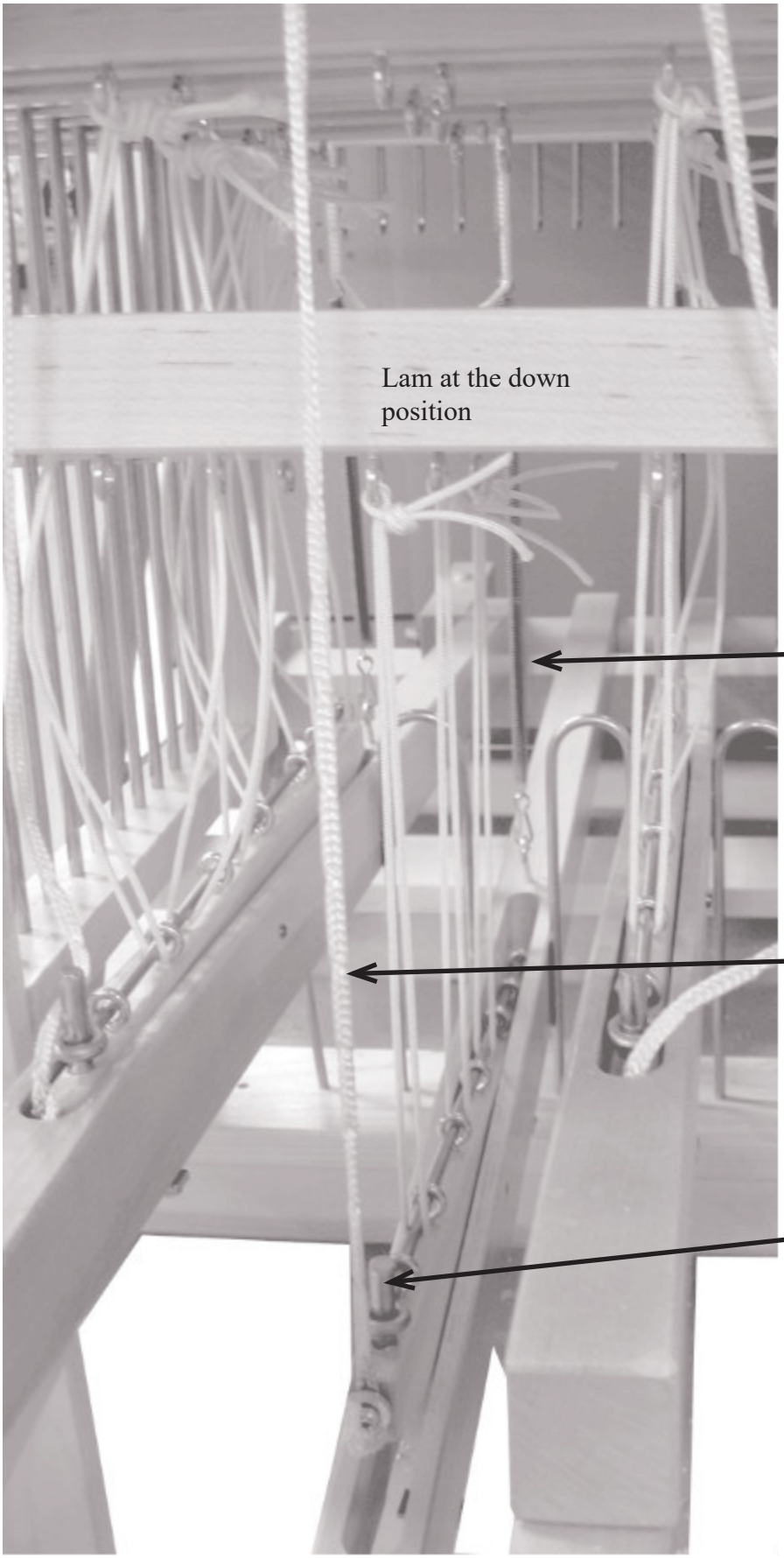
Rocker loop cord

Treadle Cords



Treadle hook

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



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 treadle #2 depressed with the treadle spring under tension.

ADJUSTING THE SHED
(Length of the Rocker Loop cord)

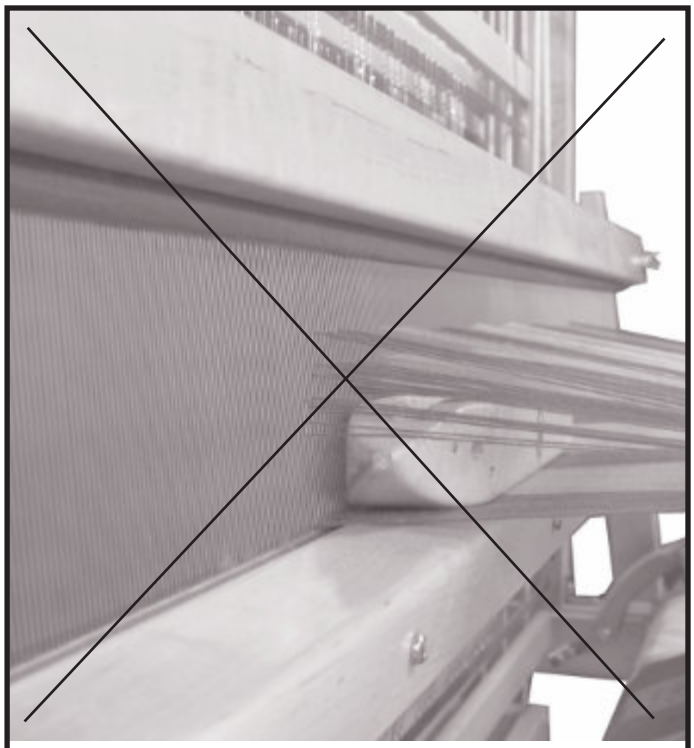
The key to a wide clean shed is the proper adjustment of the Rocker Loop Cord.
Once you have completed the hookup of the Cords and Springs, start at one end of the Treadle Set and depress each Treadle one at a time noting the position of the bottom Shed. Adjust each Shed by shortening or lengthening 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.

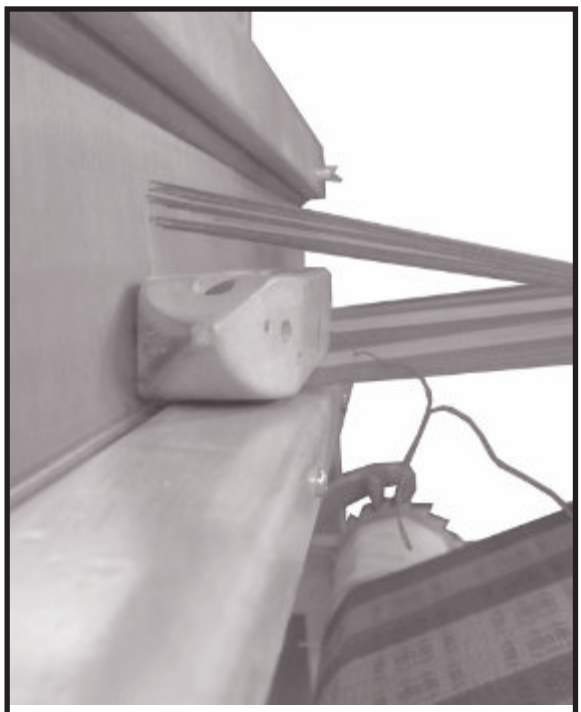
Picture #33 shows properly adjusted Rocker Loop Cords with the bottom Shed just kissing the Race Plate and the Top Shed uniformly even across the width.

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.

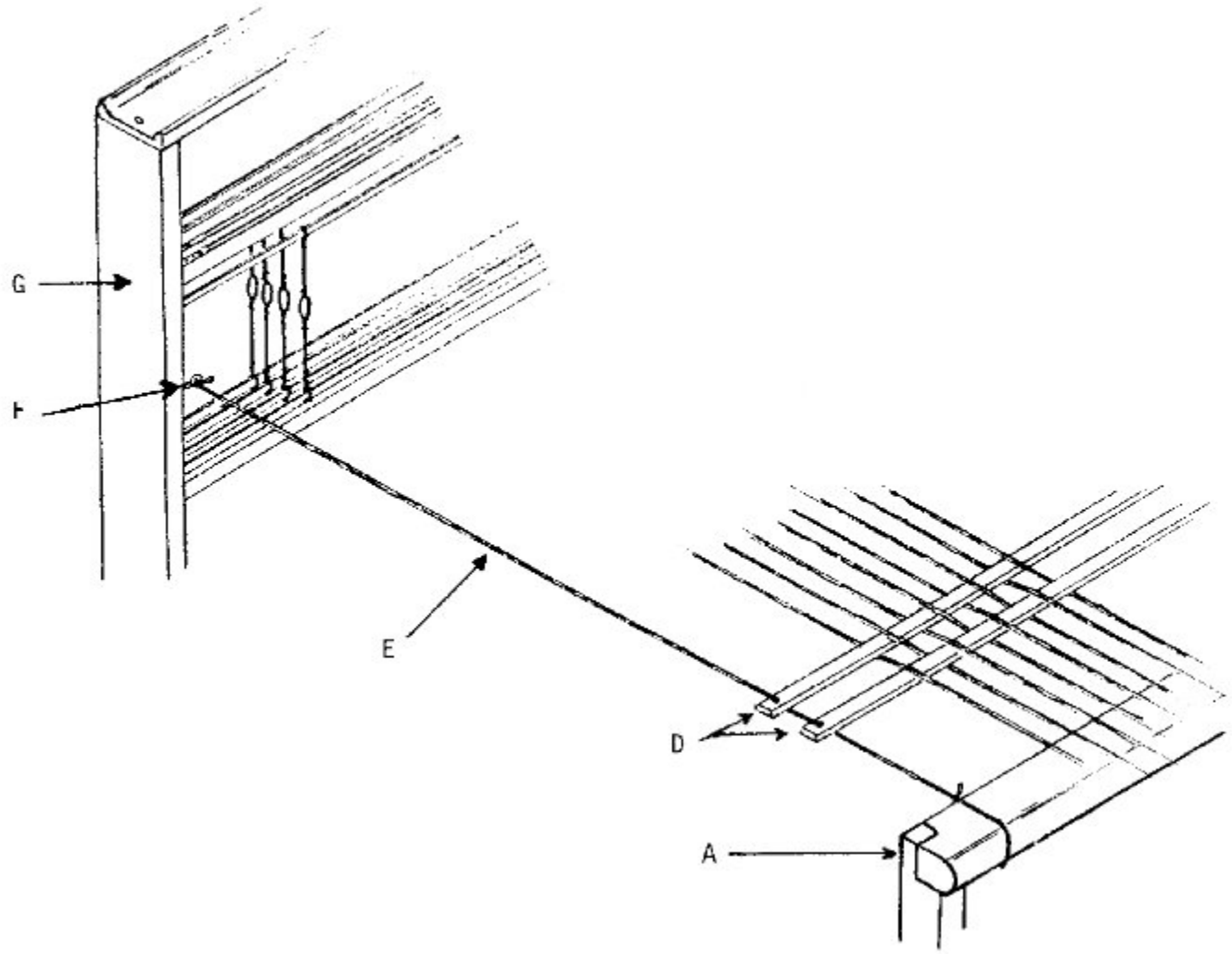
The design of the system provides a greater lifting force on the Shafts with considerably less leg pressure required to depress the Treadles. With a few Picks on each new project, the Weaver will find the correct Warp tension required to produce the desired PPI (Picks per Inch) in the Cloth, while maintaining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



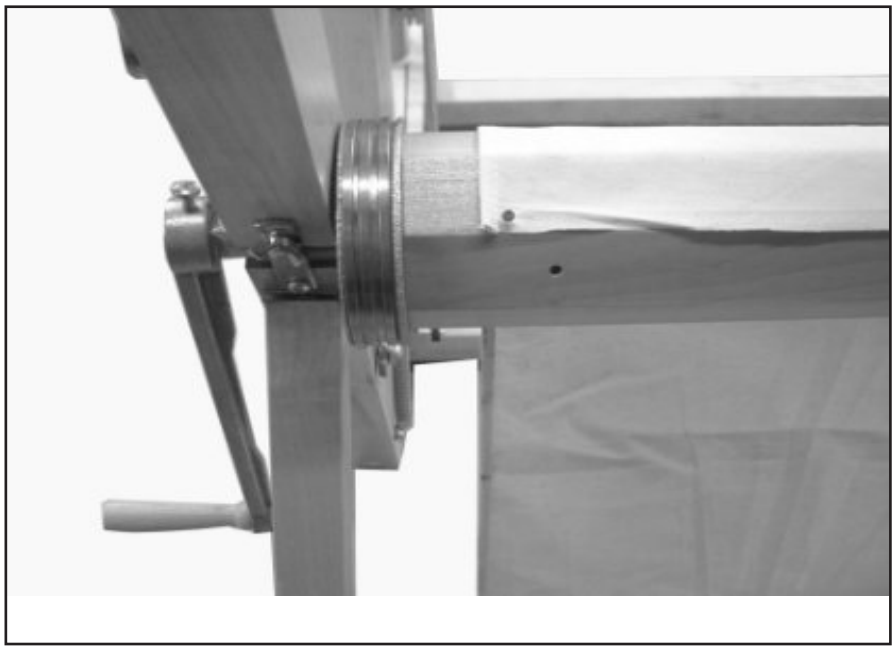
Picture 32 Colonial 12s v2 without adjustement of the treadle rocker loop cord



Picture 33 Colonial v2 12s Plain weave shed



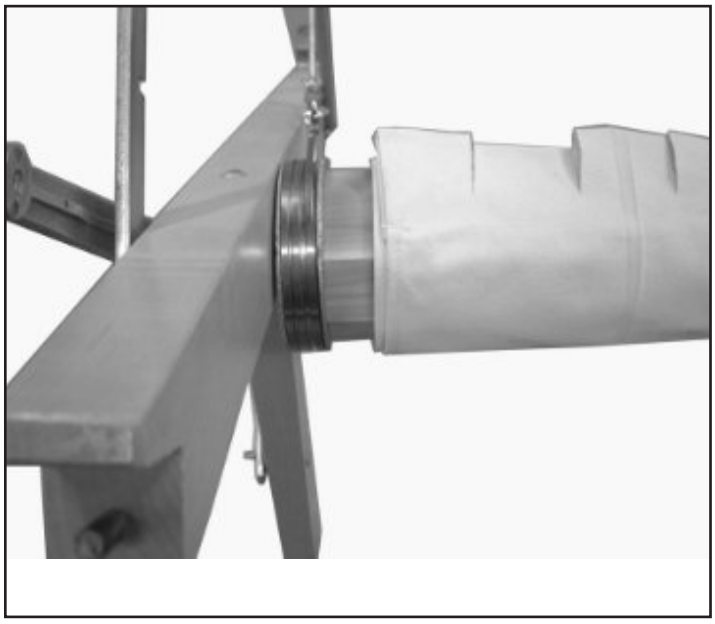
Affix screw eyes F to the holes inside middle posts G.
Pass a string E through the holes at each side of the lease sticks D and tie them to the screw eyes and to the thread beam A.The lease sticks will be held at the right height and distance for easy threading.



Apron installation on the back beam

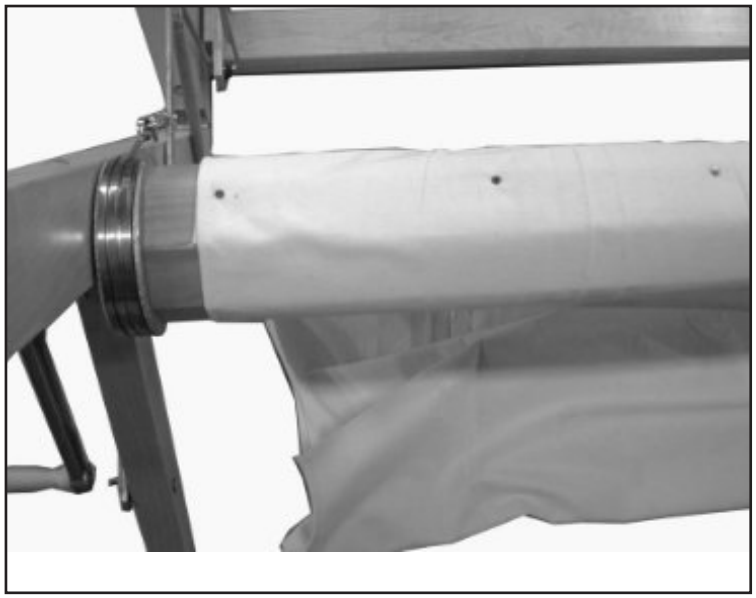
Center and square the apron on the beam.

Affix one tack at each end and one in the center.



Using the crank, turn the beam clockwise to check that the apron is still square when rolled on the beam.

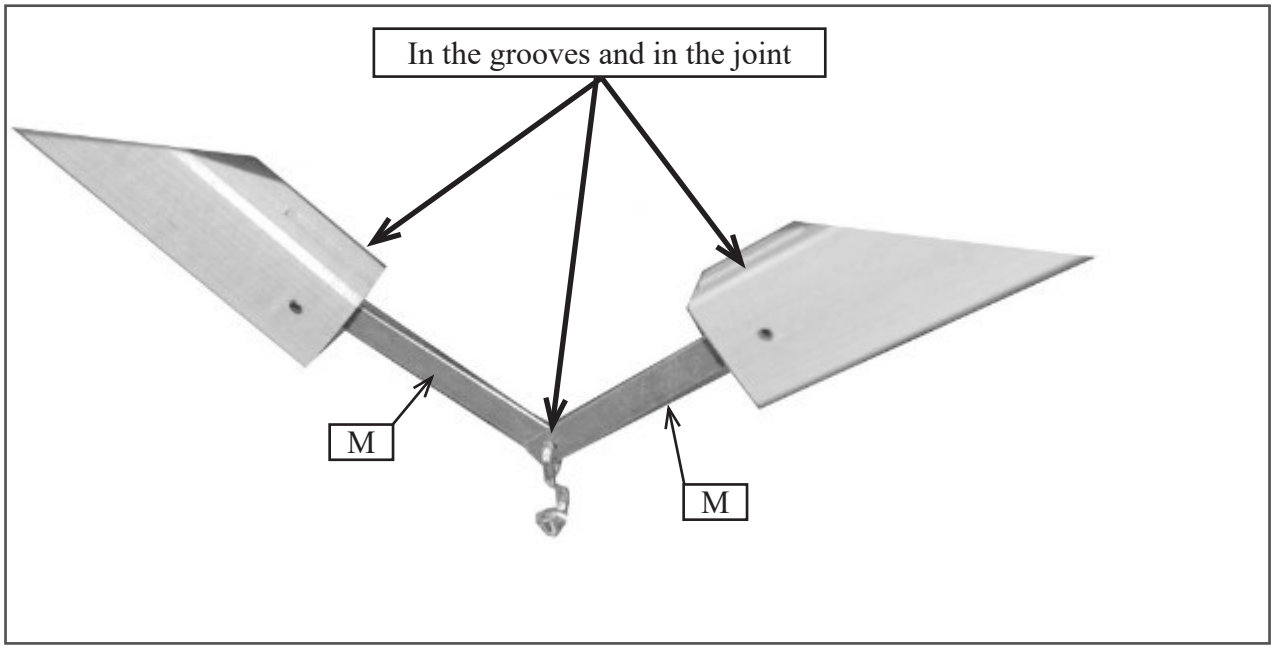
Unroll the apron until one full turn of the apron around the beam.



Affix one tack every 6 or 8” across the beam.

All jack type Leclerc Looms.

Instructions on how to keep your loom in good working condition



The friction between the metal pieces M, the spring pin of the jacks and the S Hook may produce unpleasant noise that can be eliminated by spraying silicone spray in the indicated area.

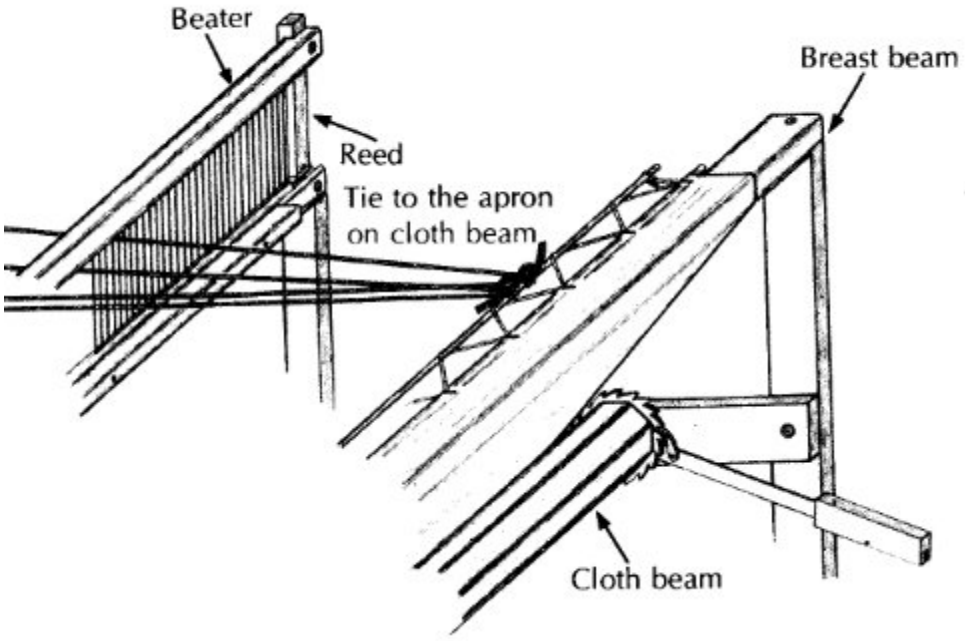
We recommend using only 100% silicone products. No oil or grease.

Suggested lubricant spray:

Do not use this product

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.

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