NILUS II 8s Countermarch V2

36"	1029-0018
45"	1030-0018
60"	1031-0018

Leclerc Looms
Since 1876

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

Loom Prepared by:_____

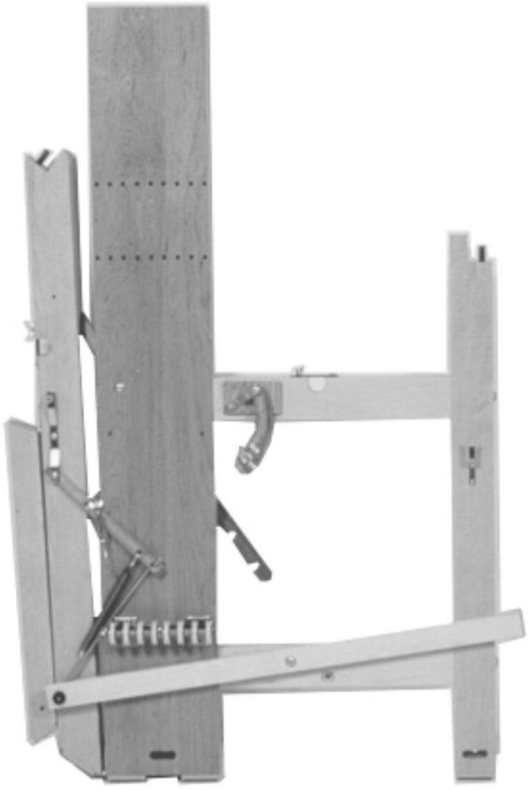
Inspected by:_____

Date:_____

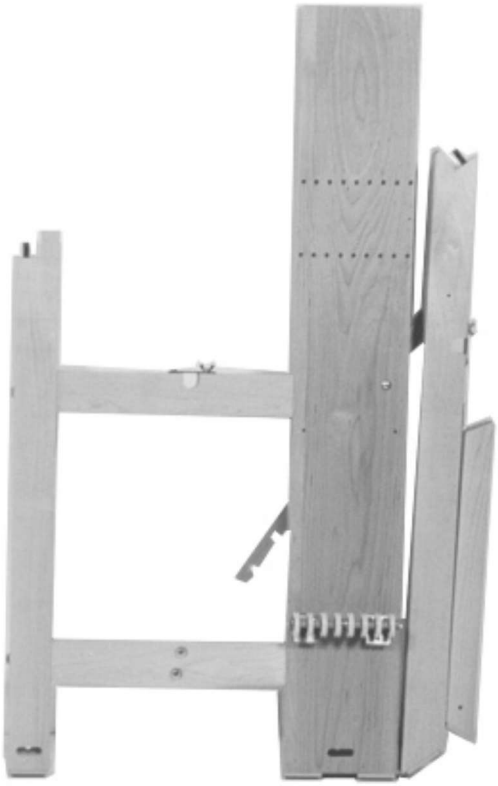
To assemble this loom, a minimum of 2 people are needed but it is recommended you use 3.

/NILUSII/contremarch/Contremarch EN.afpub 04/2025
Voir page 34 pour instruction d'impression par page

PARTS LIST



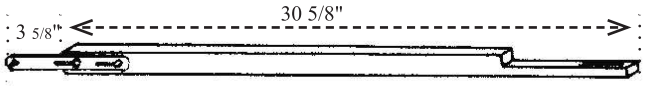
1 right-hand side



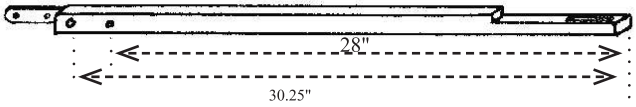
1 left-hand side

Note for Leclerc only:
- Faire le trou pour le frein d'ensouple
- Faire les petits trous dans les montants pour les baguettes d’encroix.
- Vérifier que les bagues entrent bien dans les pattes et traverses

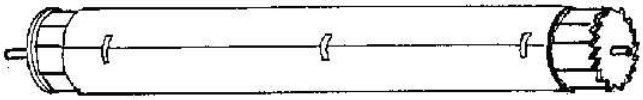
2 breast beams
(43½", 52 5/8", 68 1/8")



1 left sword



1 right sword



1 cloth (front) beam
(38½", 47 5/8", 62 9/16")

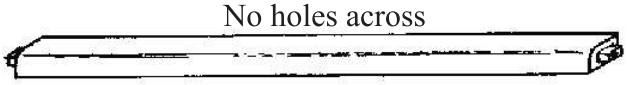
Avec Bagues (Bushings)

1 warp (back) beam
(38½", 47 5/8", 62 9/16")

1 batten handtree with handle
(46¾", 55¾", 70¾")

1 batten sley with shuttle race
(46¾", 55¾", 70¾")

No holes across

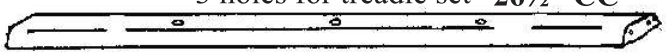


1 Front cross-member
(40½", 49", 64")

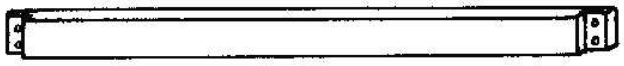
2 small holes on top

1 Middle set cross-member
(40½", 49", 64")

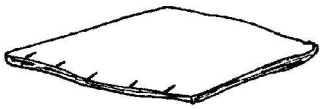
3 holes for treadle set **26½" CC**



1 Back cross-member connecting stabilizing posts

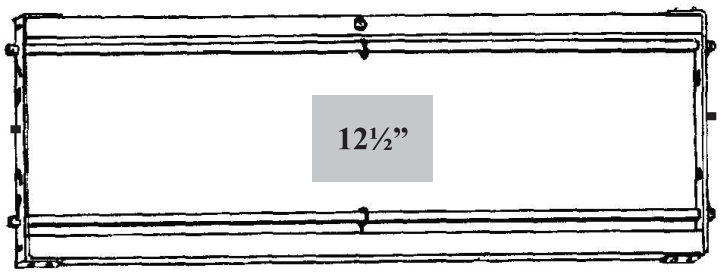


1 cross-board connecting the back posts (34½", 52 5/8½, 67 ¼")

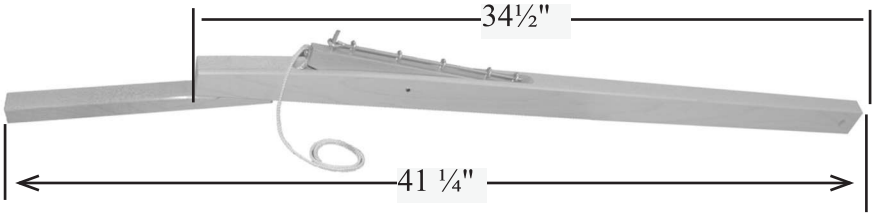


1 apron

1 cloth take-up motion handle



8 shafts



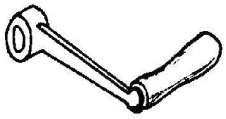
10 treadles with extension

3 treadle supports

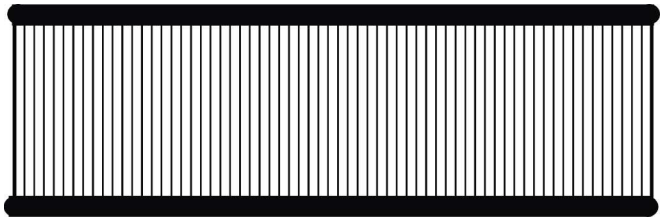
1 treadle set rod 28¾” with one pushnut

2 more Treadle set Pushnuts

1 treadle separator



1 Crank



1 reed

2 lease sticks

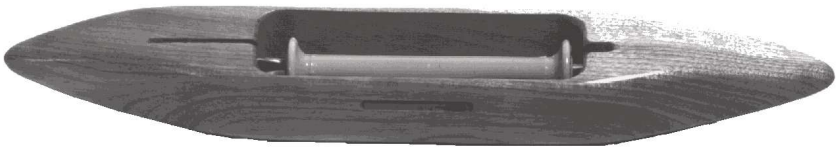
4 warp rods
+ 2 Heavy rods for narrow fabric

3 screwdrivers (Black, Red and Green)

1 adjustable wrench

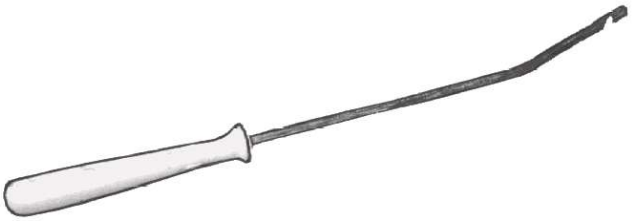
1 set of 10 treadle hooks 9”

10 pegs to lock the treadle hooks



1 regular boat shuttle

12 plastic bobbins 4”

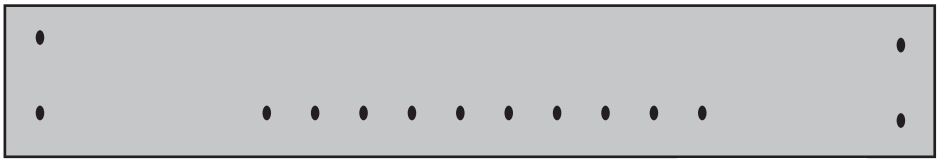


1 threading hook

2 pkg of cords (5 yds each)

12½”

1000 heddles (36” loom)
1200 heddles (45” loom)
1500 heddles (60” loom)

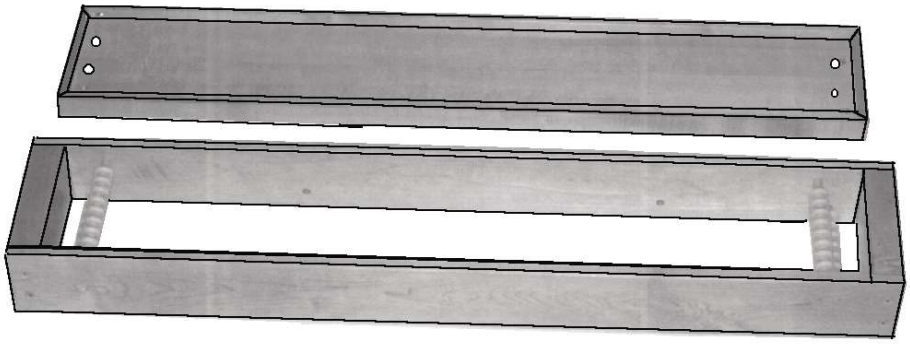


1x Front board with 10 screws across

Note pour Leclerc:
Poser un petit bloc ½" sous la planche

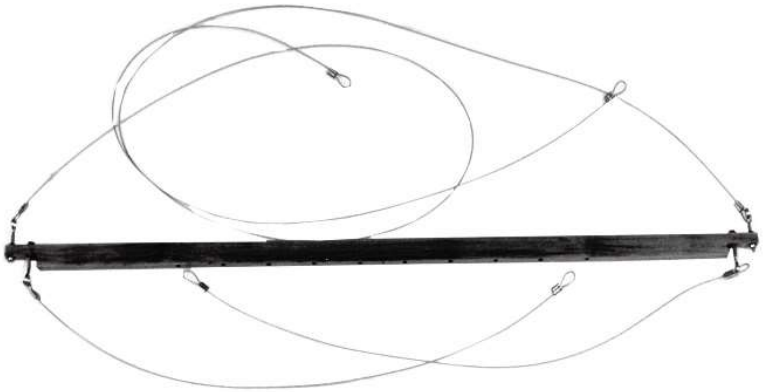
60 x treadle cords 15¼" (Black) to join lams to treadles.
60 x treadle cords 24¼" (Red) to join bottom part of shaft frames to treadles
10 x rocking pieces loop cords 19¼" (already installed)

1 warp beam advance control 3"

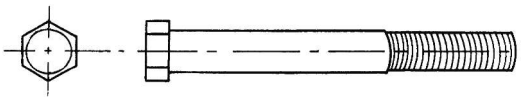


1x castle top

1x castle cover with pulleys and



8 lams with metal cables

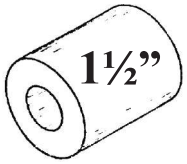


Machine bolts
4 X - 3/8” x 5”

Carriage Bolts
4 X - ¼” x 2½” (Back hooks)
4 X - 5/16 x 2½”
3 X - 5/16” x 4”
2 X - 5/16” x 2 ¼” (swords)

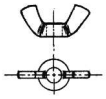
4 X - 3/8”
9 X - 5/16”
4 X - 9/16” (treadle set)

Hexagonal nuts
3 X- Nylon auto lock 5/16”

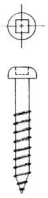


8 X Wooden spacers

Square nuts
4 X - 3/8”
4 X 5/16”



Wing nuts
4 X - ¼” (6 mm)
7 X - 5/16” (8 mm)



Round head screw
4 X - # 12 x 1½” (back cross-boards)
4 X - # 14 x 2” (front board)
2 X - # 8 x 1½” (Treadle separator)
4 X - # 14 x 3" (treadle cross-member)

Flat head screws
4 X - #12 X 1½” (38 mm)
(castle top)

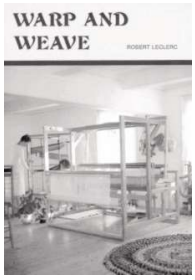
2 X eye screws

Tacks for canvas

6 + 2 shaft frame ends

1 lam separator

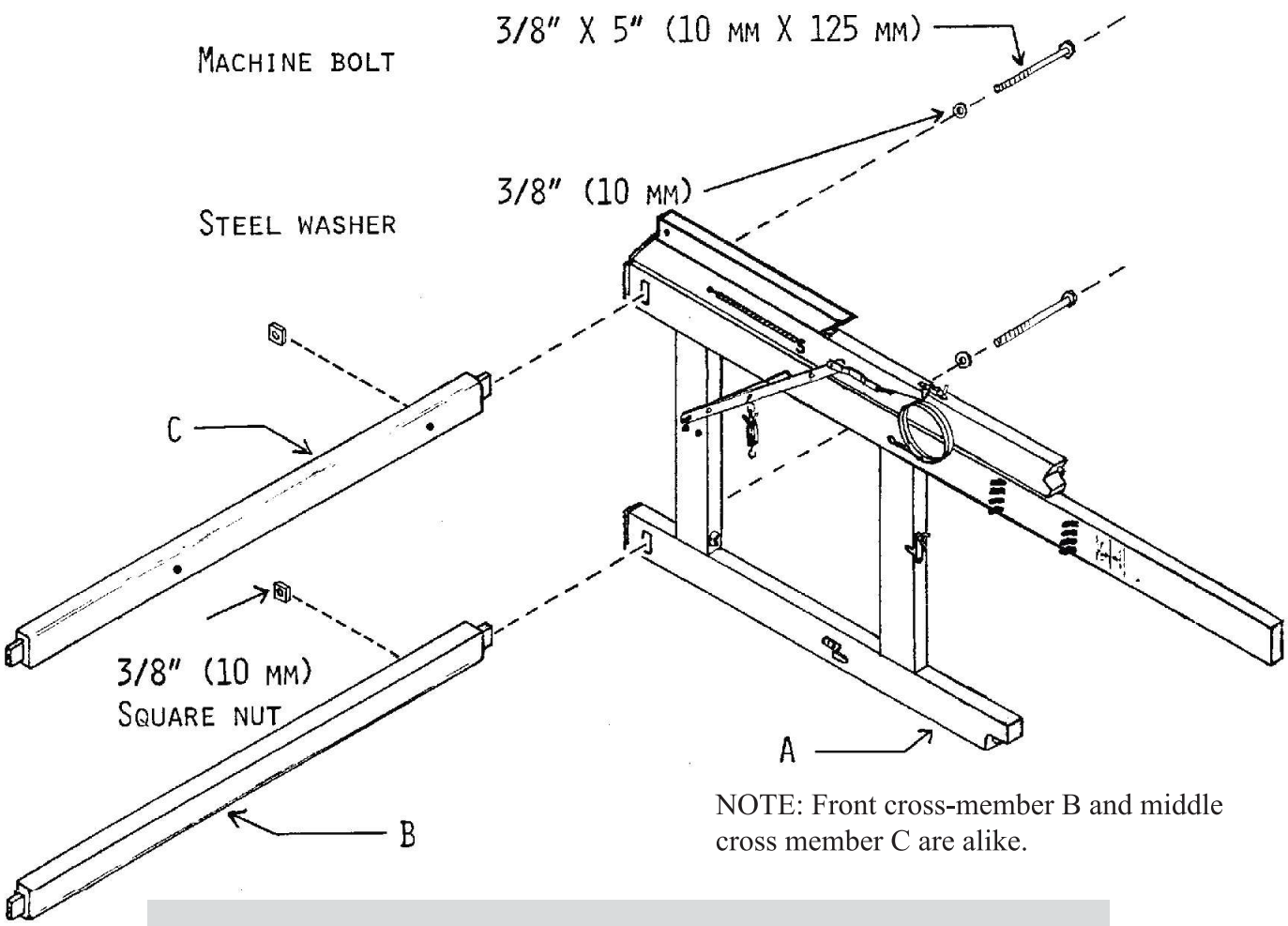
2 heddle transfer bars



1 x Warp & Weave book

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

https://vimeo.com/588353282/7cb1946801



NOTE: Front cross-member B and middle cross member C are alike.

Note pour Leclerc: Traverse du centre a 2 trous pour le séparateur de pédales.

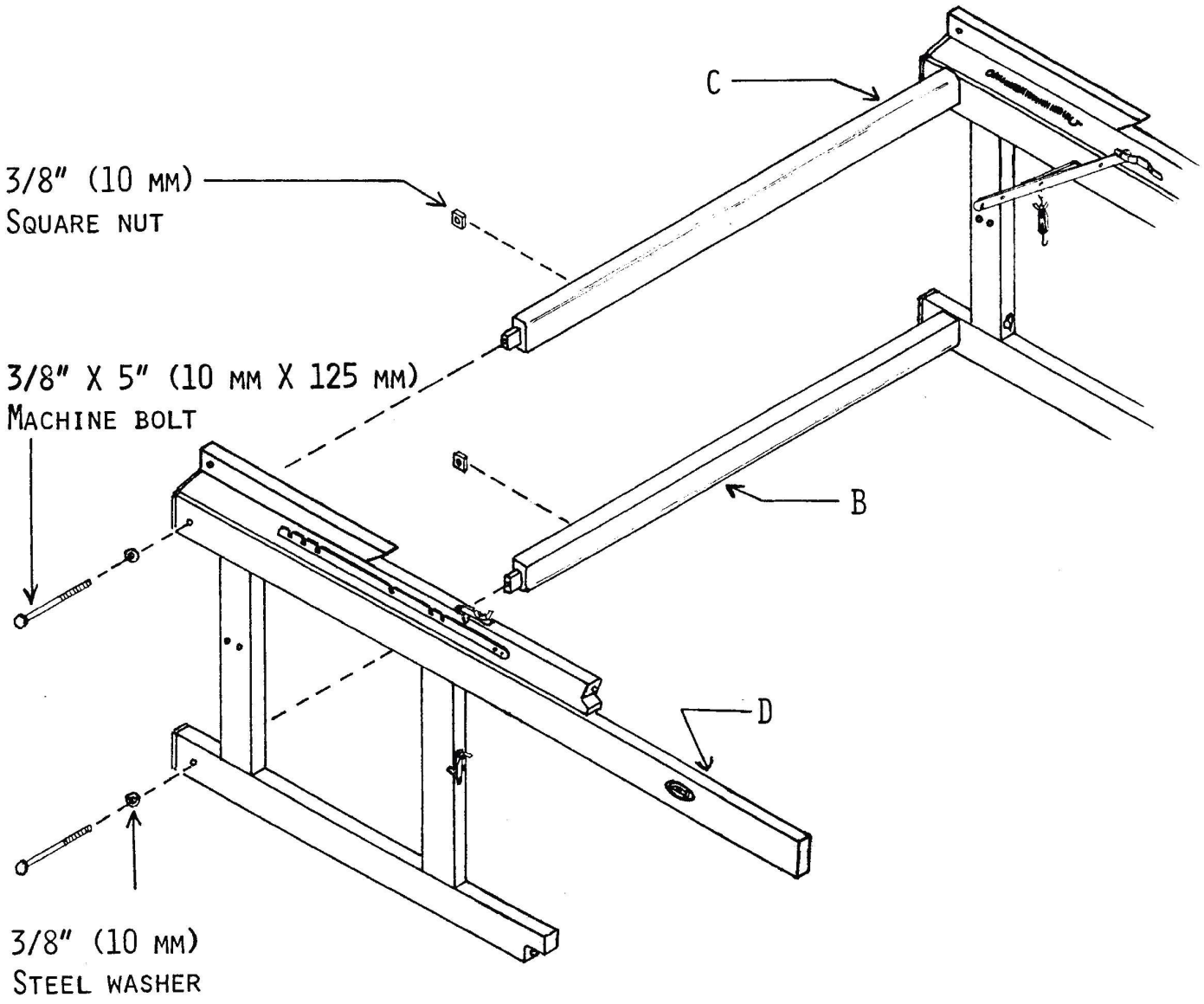
Place right-hand side A of the loom on its front.

Insert a tenon of lower front cross-member B into the lower front mortise of right-hand side A. (Fig. 1)
NOTE: The lower front cross-member B does not have 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-mernber C into the lower back mortise of right-hand side A. (Fig. 1)
NOTE: The lower back cross-member C has 2 small holes drilled on top.
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

The Brake rod has been disengaged for shipping. See p.24 on how to put it back in place.

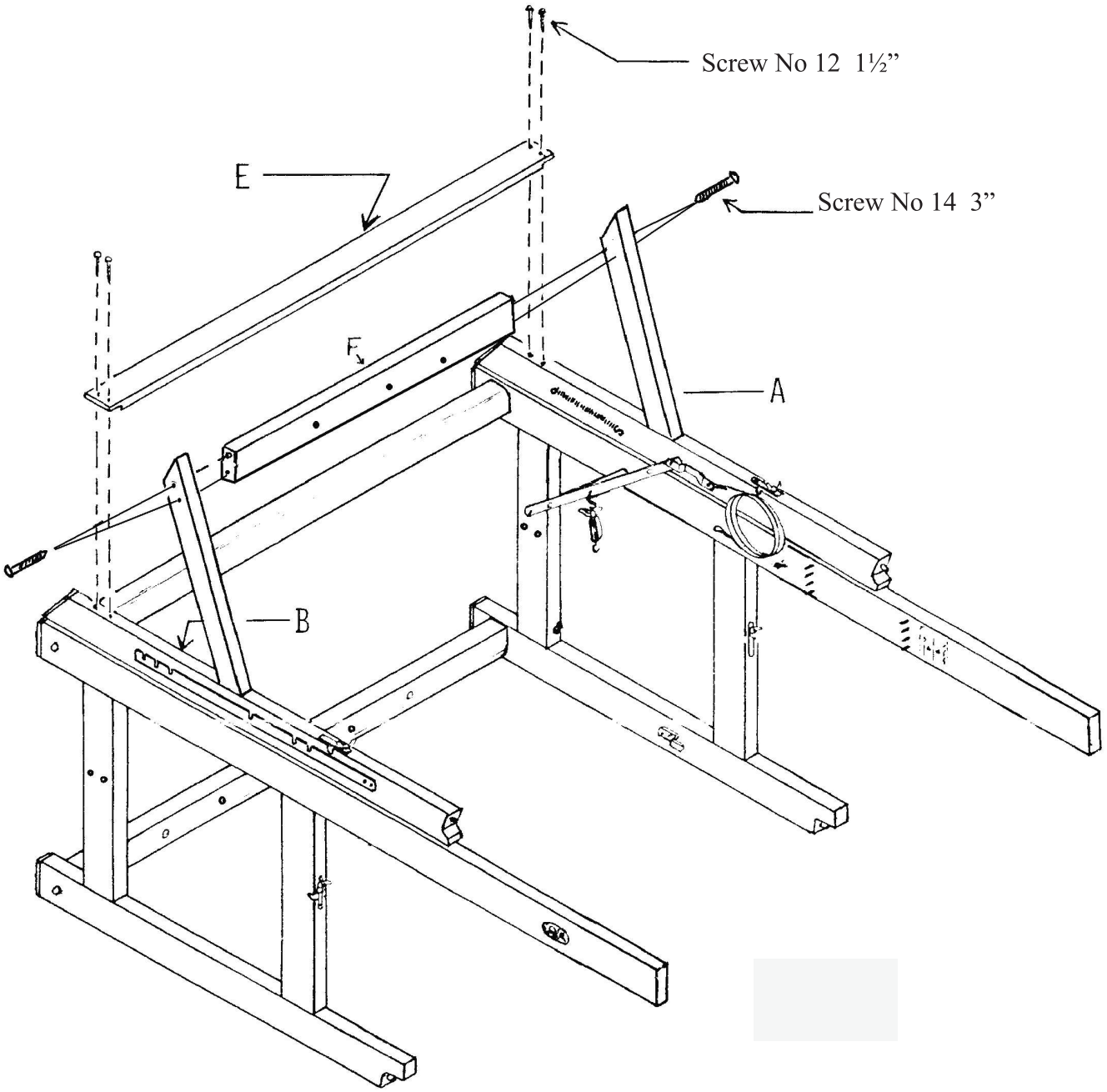


After having placed left-hand side D of the loom on its front, insert the tenons of cross-members B and C into the lower mortises of left-hand side D.

Use 3/8” X 5” (10 mm X 125 mm) machine bolts, 3/8” (10 mm) steel washers, and square nuts.

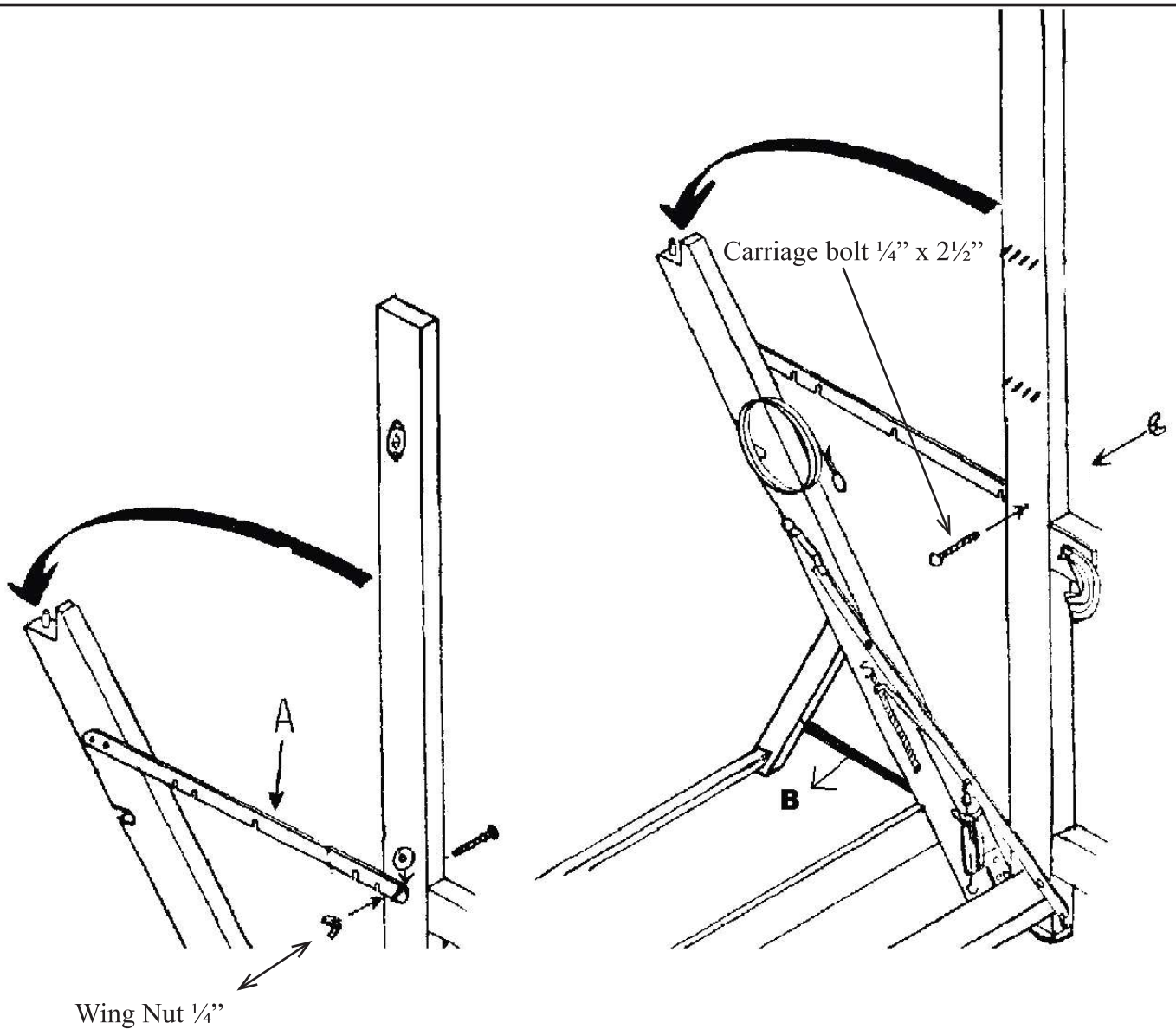
Make sure all the bolts are thoroughly tightened.

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



Using four 1½” (40 mm) round-headed screws No 12, affix back cross-board E to back posts A and B.

Using four, 3” round-headed screws No. 14, affix the treadle cross-member F.



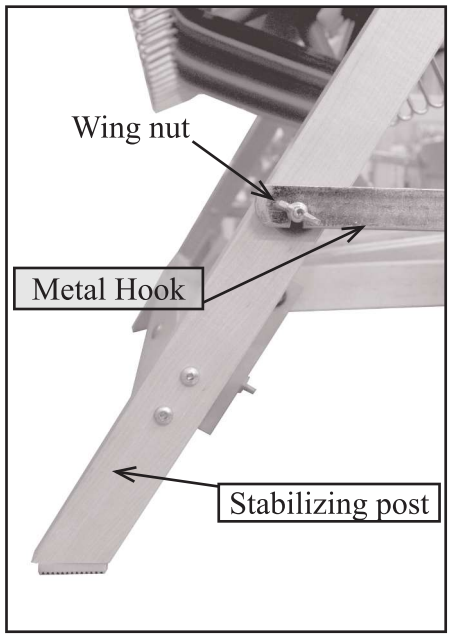
Place the loom right side up.
Unfold the back section of the loom.

Insert a ¼" x 2½" carriage bolt into the holes of the uprights. The nylon washer is already installed on the upright. Affix the ¼" wing nuts.

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

Insert a ¼” X 2½” carriage bolt into the holes of the stabilizing posts (inside to outside). The nylon washer is already installed on the posts. Affix the ¼” wing nuts.

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



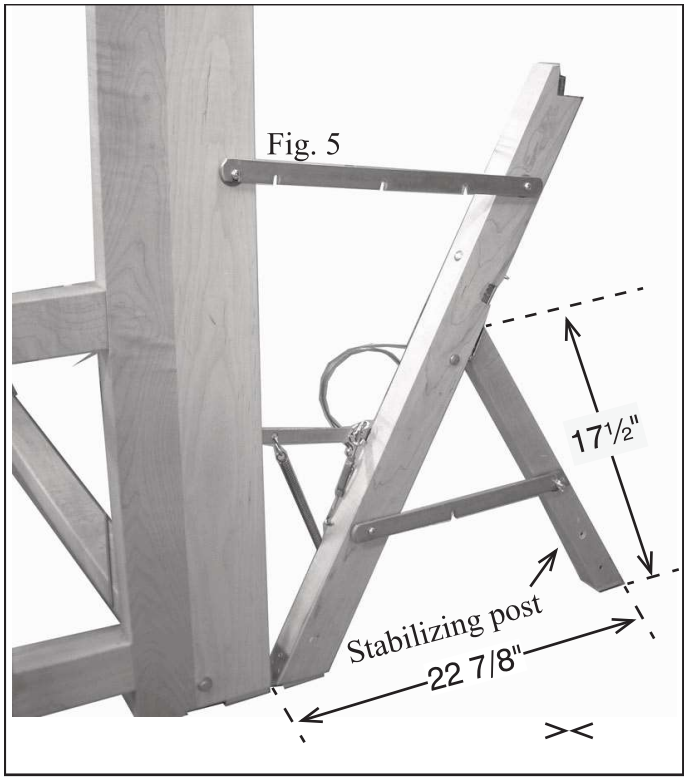


Fig. 5

Castle top Installation

Install the castle top on the castle sides. No hardware is necessary.
VERY IMPORTANT: Place this top as indicated by the sticker on the front.

Shaft installation

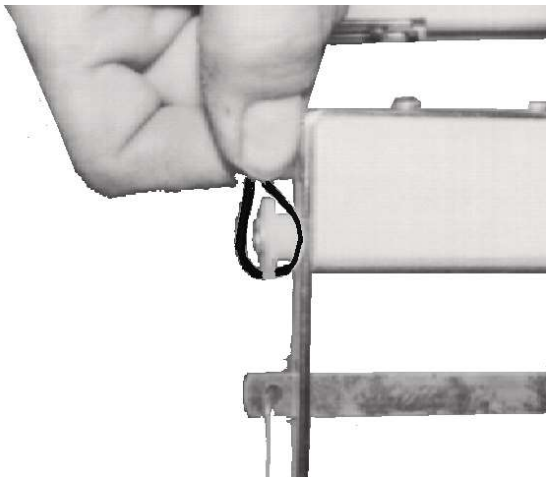
It is easier to install your heddles before this operation.
To remove or add later, please go to page 30 of this instruction.

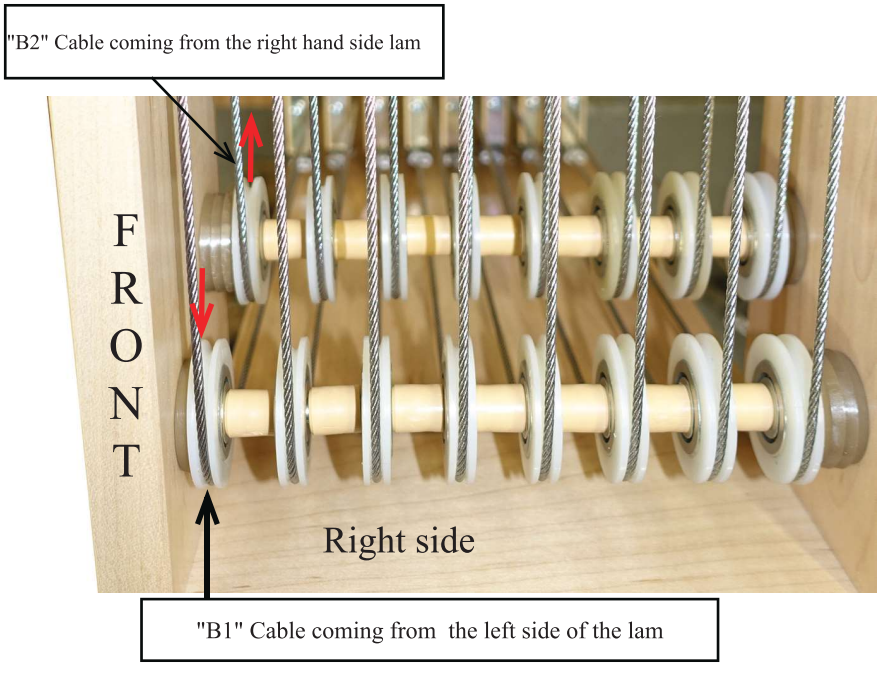
Start installing the lams and shafts into the castle top, beginning with the #8 (back)
Place one lam assembly on the floor under the most forward shaft position.
Following the drawing of the next page, thread "B1" and "B2" passing by the right pulleys. Attach to the white plastic shaft end on shaft #1.

Make sure to always pass the cable "B1" and "B2" in the back of the shaft frame.

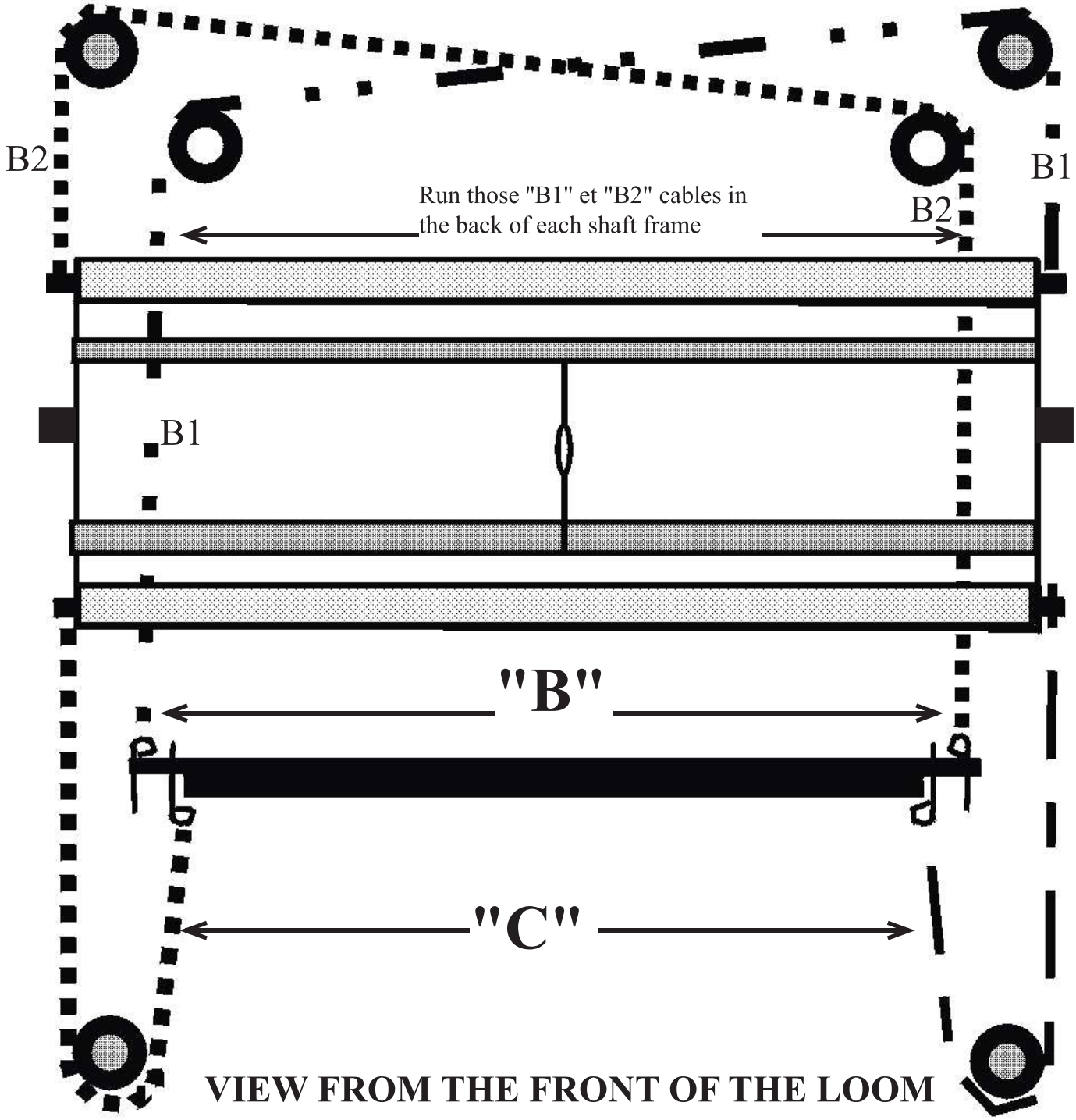
Run the "C" cables around the lower pulleys and attach to the lower white plastic shaft end of shaft #1.

Important: See the film supplied with the loom

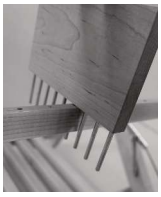




Right side of the loom



All cable lengths have been pre-adjusted at the factory

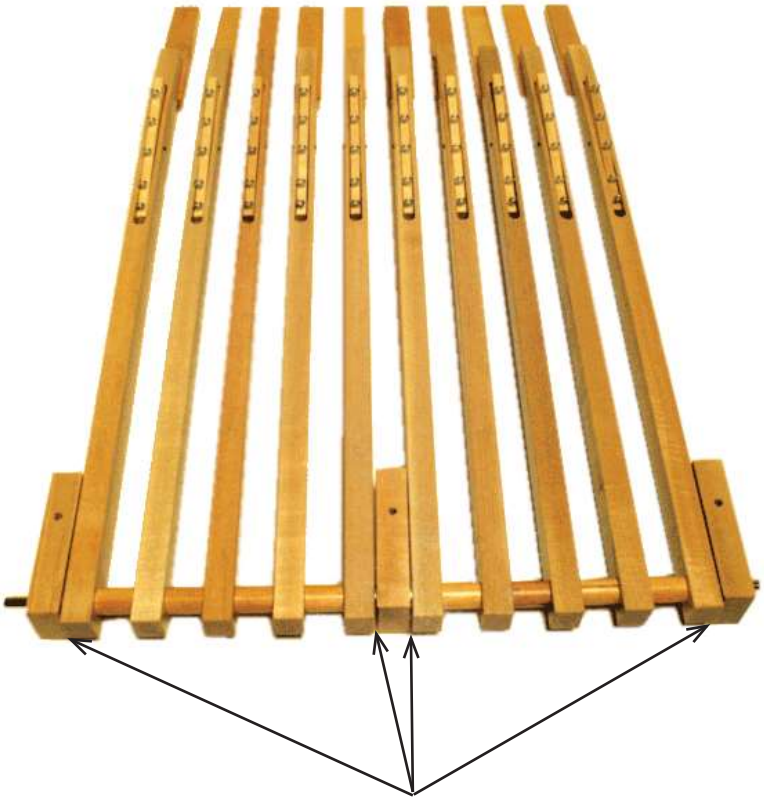


Put the lam 8 in the middle of the lam spacer.
After lam 5, reposition the spacer to have all lams at the right spot.

TREADLE SET ASSEMBLY

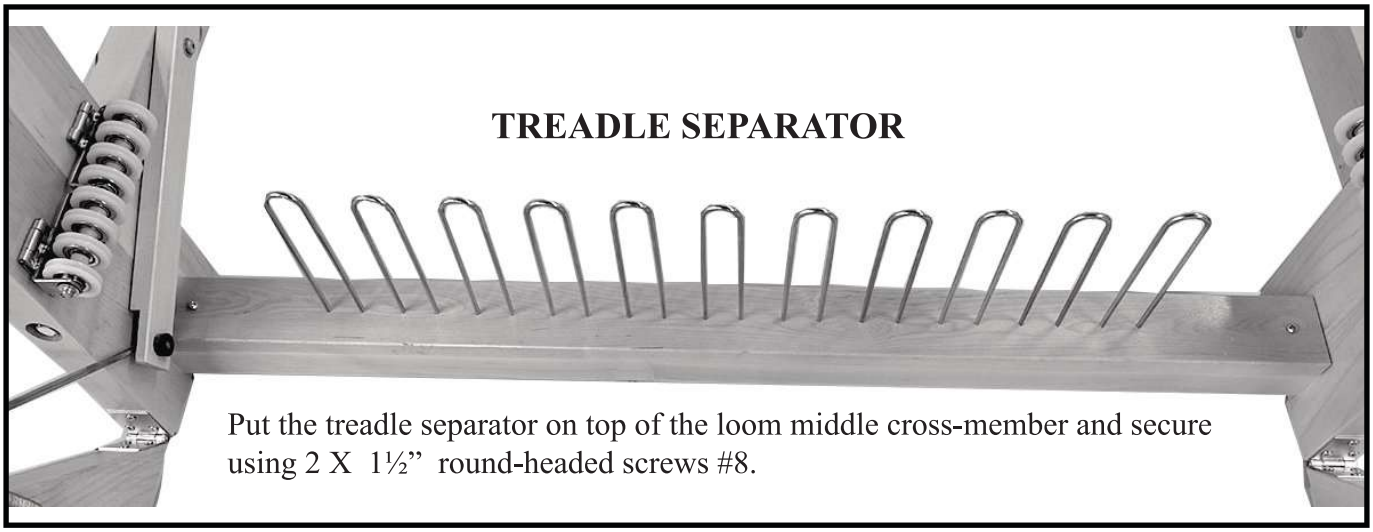
Assemble the treadle set (on or out of the loom).

1 treadle rod 28¾” 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.

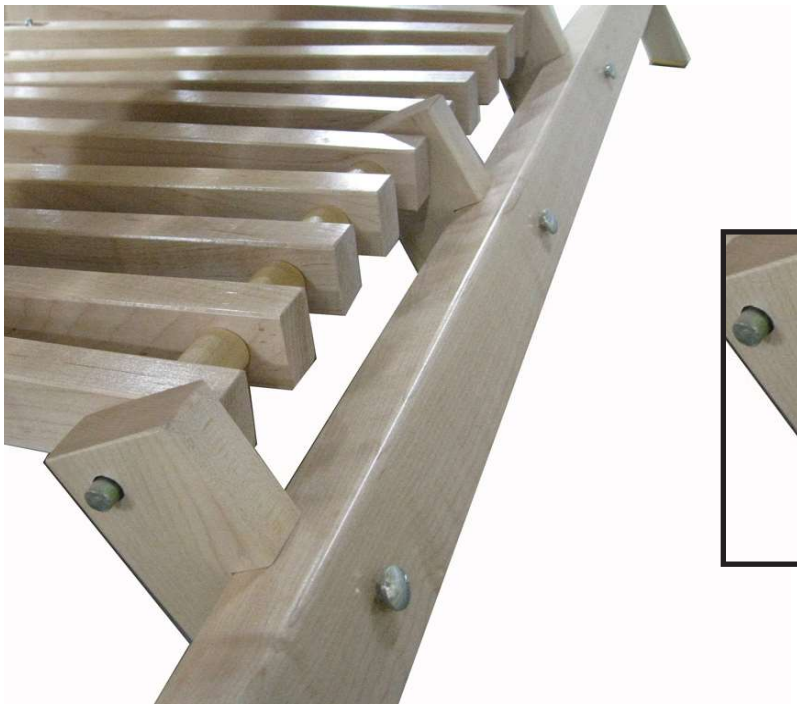


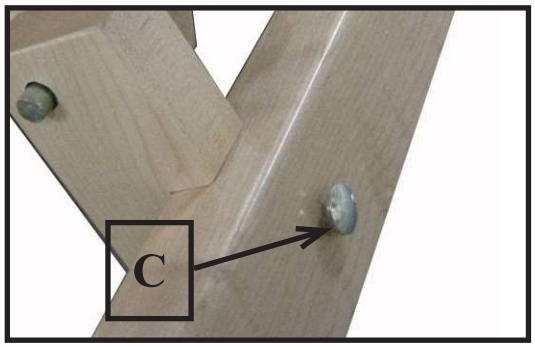
4 washers 9/16” are installed between treadles and treadle blocks.

TREADLE SEPARATOR

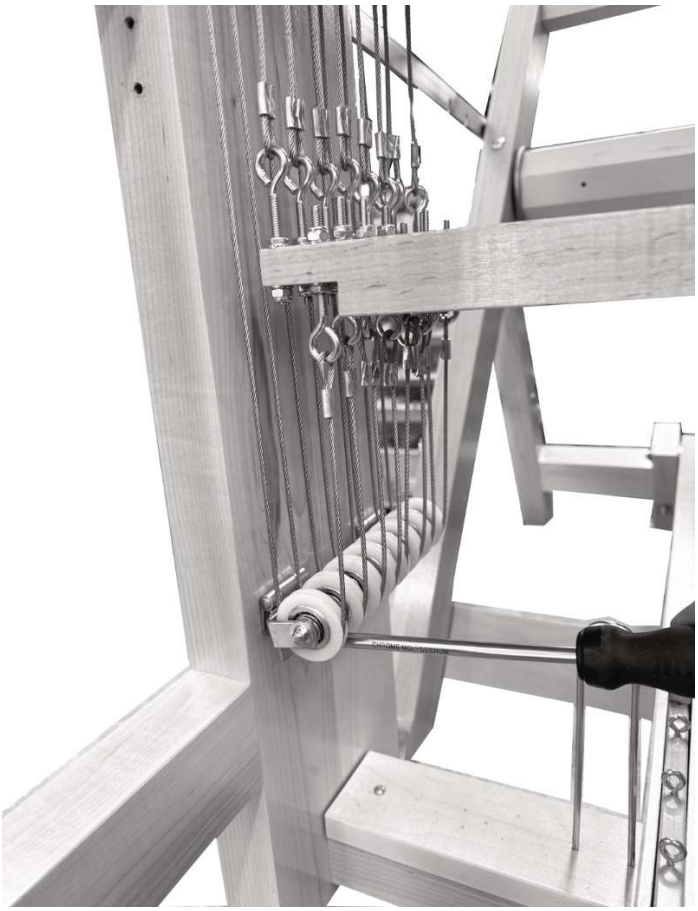


Put the treadle separator on top of the loom middle cross-member and secure using 2 X 1½" round-headed screws #8.



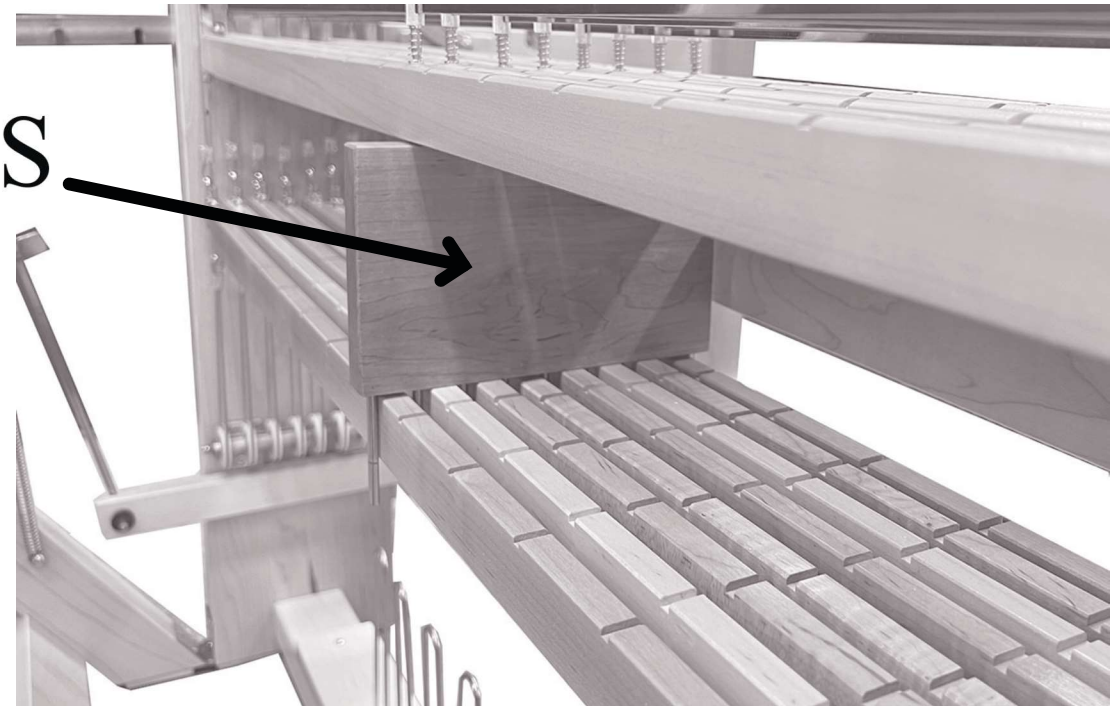


Affix the treadle set to the treadle cross-member using: 3 carriage bolts 5/16" x 4"
3 washers 5/16" (inside of the loom)
3 Nylon autolock nuts 5/16"
Insert the bolt from outside to inside of the loom (hammer the carriage bolt "C" head)
Note: The treadle set can be secured using the 5/16" auto-lock nuts or the 5/16" wing nuts.



Finishing the shaft frame installation
A small amount of tension is needed on the cables.
Make sure that all cables are in the right groove.
Screw the pulleys hinges using 4 round head screw #12, 1¼".
If the tension on the cables is too high, the shaft frames will not move freely, unscrew the hinges slightly.

Keep this lam spacer "S" in place until all the treadle tie-ups are made.
This loom works better with tie-ups on all 10 treadles.



Using four 1½" flat-headed screws no. 12, affix the castle top to the loom.
Make sure to screw into the pre-drilled holes.

In this countermarch system, each shaft frame (Harness) should have a treadle tie-up cord.

To lift a shaft frame, you have to affix a short treadle cord to the lam. (BLACK)

To lower a shaft frame, you have to put a long treadle cord to the bottom of the shaft frame. (RED)

You need to have 8 treadle tie-up cords per treadle.

The loop cord have to go around the lam.
Thread the the black loop.
Let it hang (picture #1)

The long cord (red) have to go around the bottom of the shaft. Pass it through the red loop.
Let it hang. (picture #2)

IMPORTANT: Always thread the red loop cord in front of the corresponding lam.
Red loop cord of shaft #1 in front of lam #1.

In order to install the red loop cord to the bottom of the shaft frames, remove the front board (P)

With a 36" and 45" loom, you can install in advance 40 red and 40 black loop cords on each side.
Start the tie-ups from the middle treadle to the outside so you will be able to slide the necessary treadle cords.

With a 60" loom you can do the same with the black cords but have to figure out the number of treadle cords per sector.
There is still the left and right end sides but because there are 3 heddle supports, you now have 4 different sectors.

Start the tie-ups from the middle treadle to the outside so you will be able to slide the necessary treadle cords.

After weaving a few inches and checking if the pattern is right, you can remove the left over tie-ups loop cords.

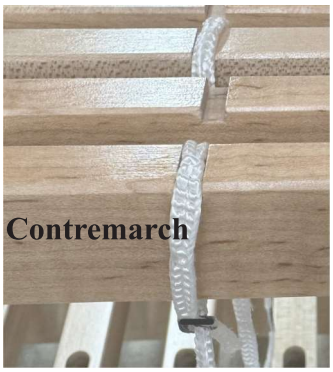


Figure #1

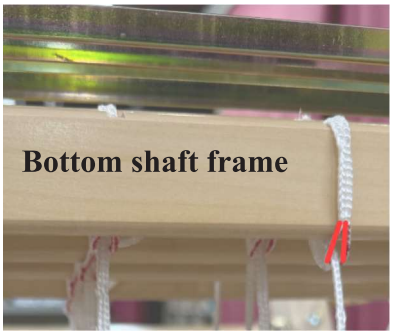
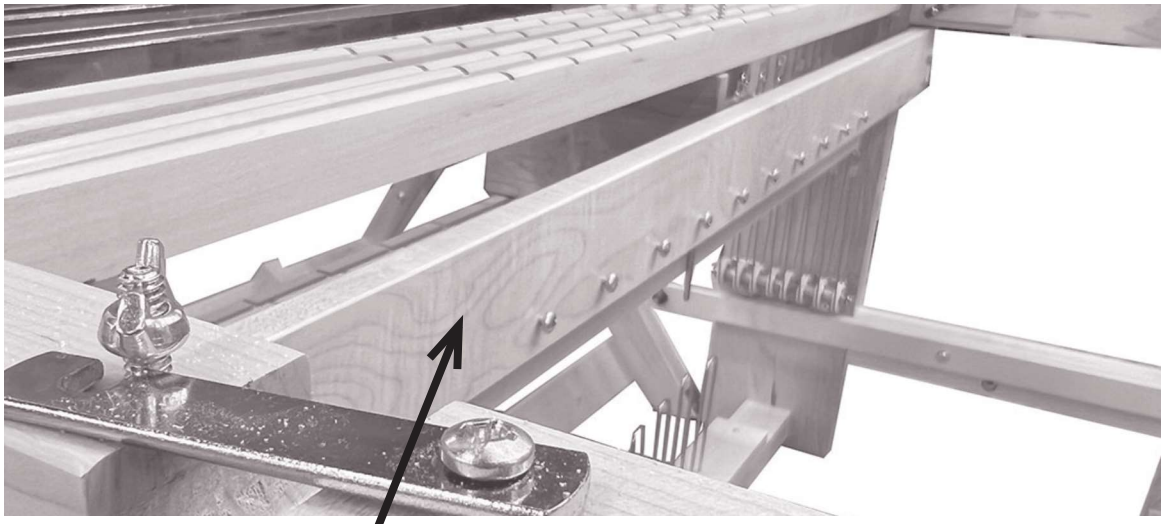


Figure #2

Figure #3

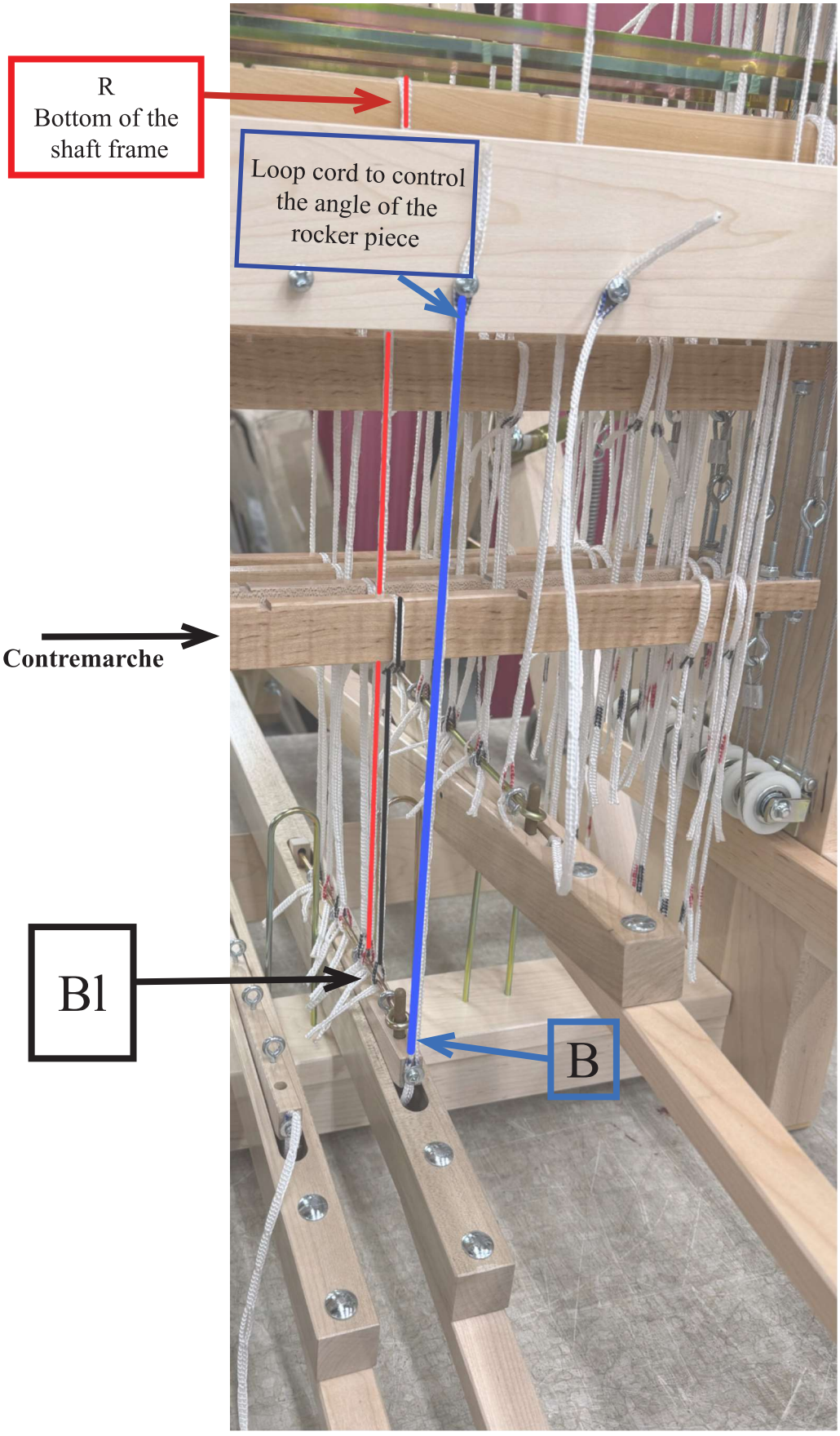


When you have all the necessary red and black loop cords in place (for all treadles at the right place according to the first pattern.

Affix the front board with 8 round head screws No. 14, 2".

Note: The 10 screws across must be at the bottom part of the board.

When you will have a new the pattern, we suggest removing this board to place all the cords at the right spot.



Thread the treadle hook following the order of the loop cords hanging and in the pattern order.

Secure the treadle hook with the brown peg.

This picture shows an open plain weave shed.
1-3-5-7

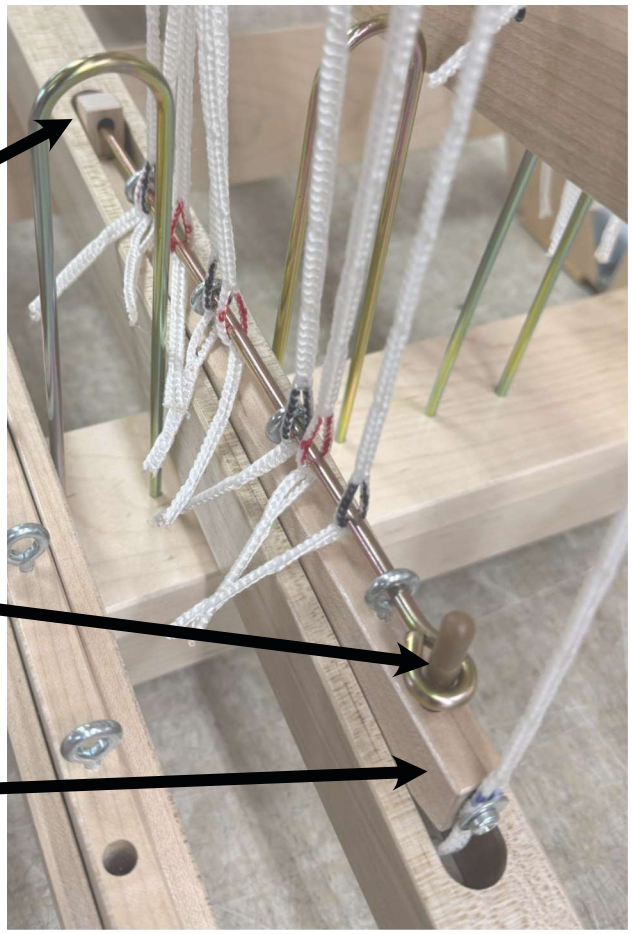
B = Blue loop cord to adjust the angle of the rocker.

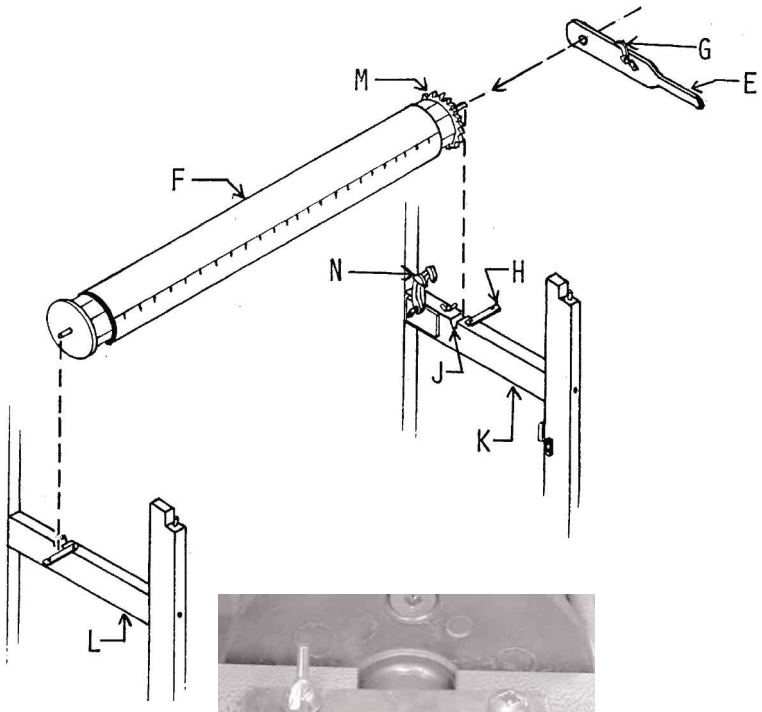
R = Red loop cord to the bottom part of the shaft frame #2

BL = Black loop cord to the countermarch #1

	Black to lam	Red to Shaft frame
Tabby treadle #1	2-4-6-8	1-3-5-7
Tabby treadle #2	1-3-5-7	2-4-6-8

With a warp on the loom ready to weave:
The treadles are all at the same height. And the lams (C) are also all at the same height .
With or without the warp, the middle point is when you press both tabby treadle at the same time like here.
Each time you depress a treadle, the other treadles move to the middle point automatically.

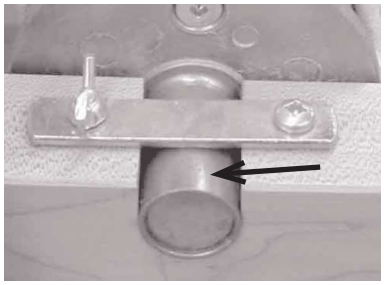




Install take-up motion handle E on the axle end of cloth beam F (on the same side as the ratchet gear). Ratchet pawl G of the take-up motion handle must be lifted up.

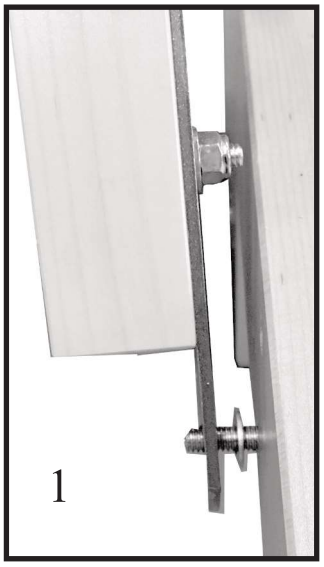
Open beam latches H and place the beam ends in the slots J of the upper side cross- members K and L.

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.

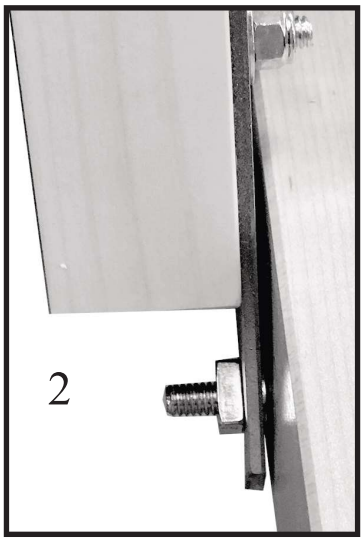
NOTE: Hammer the heads of the carriage bolts inside the holes.

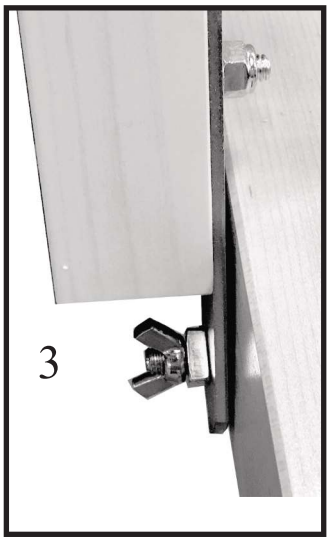


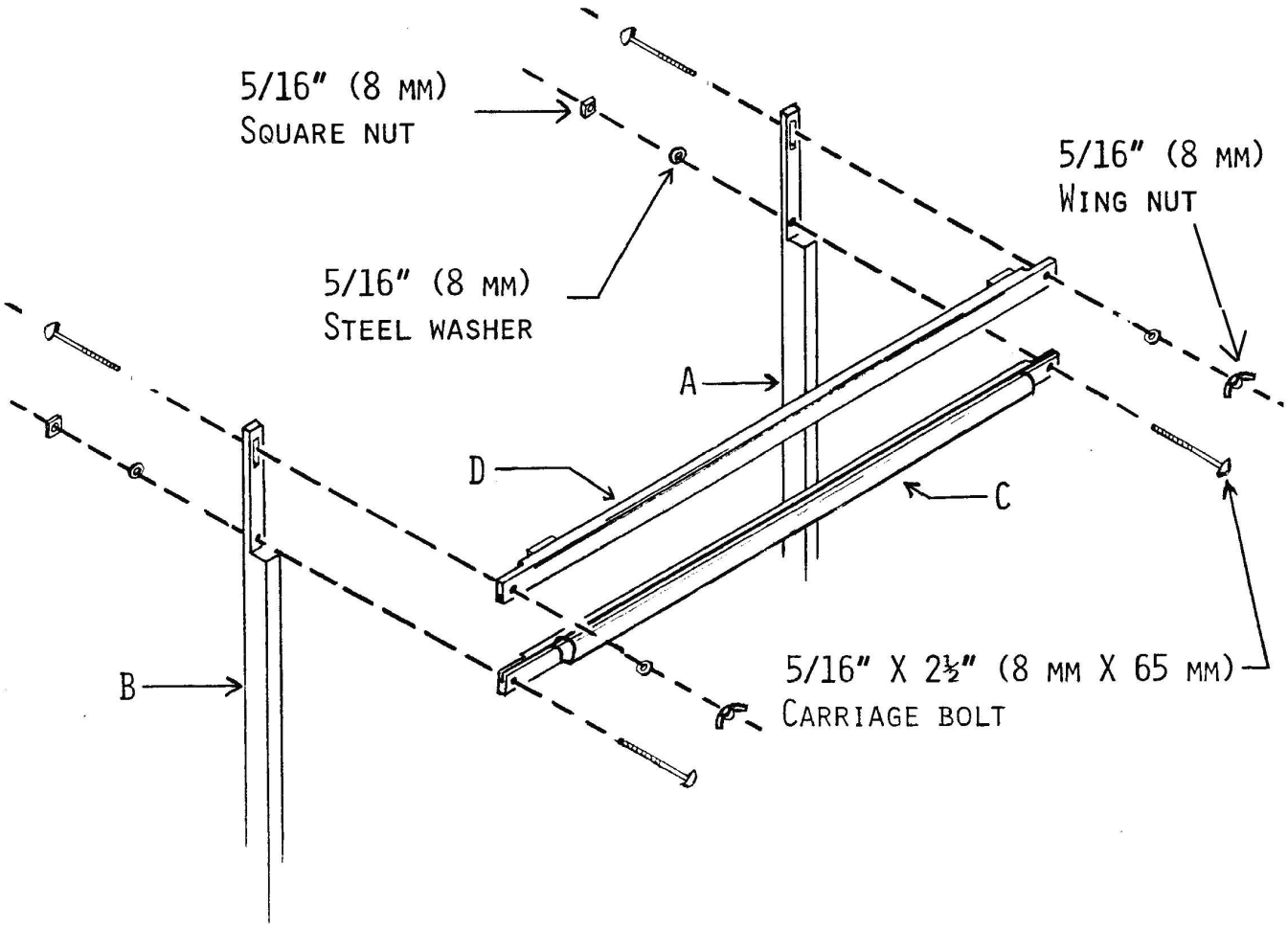
Using 5/16” x 2¼”” carriage bolts, affix swords to lower front cross-members Insert the bolt from the inside into the **lower hole** .

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 autolocks at the bottom of each sword







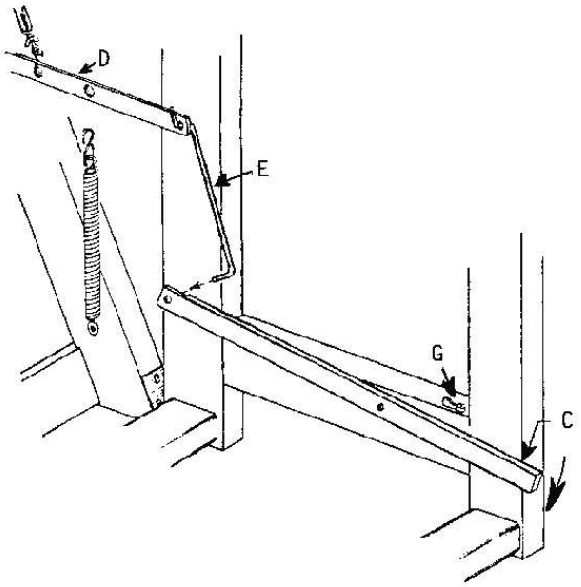
Using two (2) 5/16" x 2½" (8 mm x 65 mm) carriage bolts, two 5/16" (8 mm) steel washers, and two square nuts 5/16", affix batten sley C to the lower holes of swords A and B.

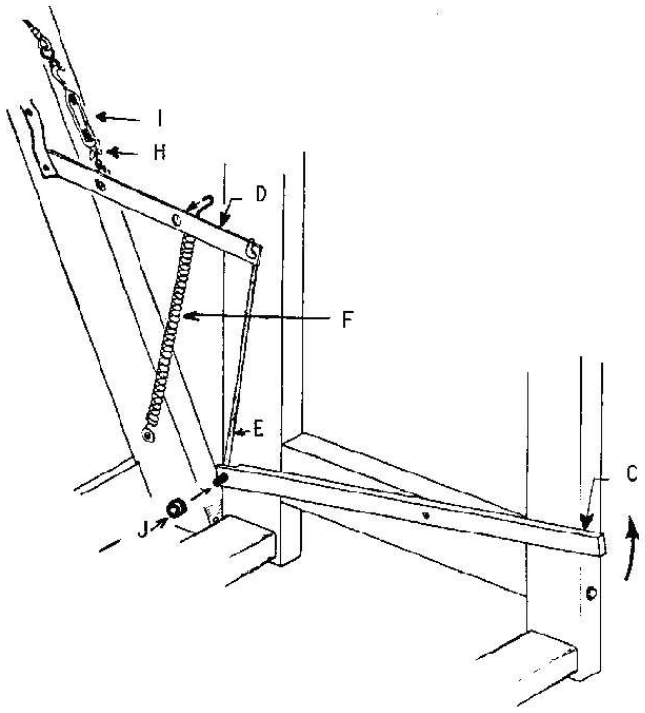
NOTE: The batten sley does not have polyvinyl bumpers but it has a shuttle race.

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 5/16", affix batten handtree D to swords A and B.

NOTE: The batten handtree has polyvinyl bumpers.

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





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 ‘’L ‘’ shape end of the metal rod into treadle C while the treadle is depressed.

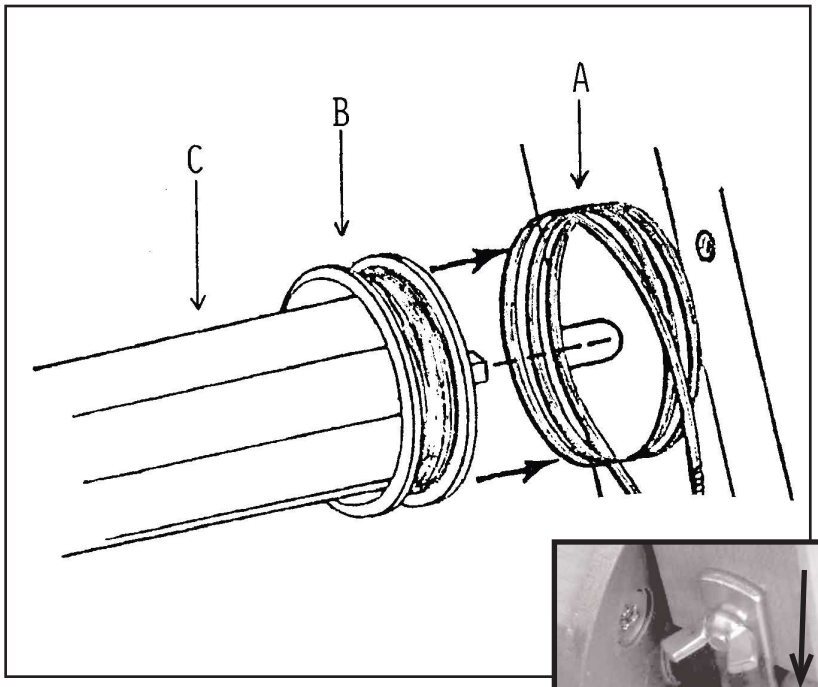
Raise (back part) treadle C as high as possible then hook spring F to lever D.

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

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 band should not be too loose. If the
tension is too great, unscrew the wing nut H slightly and then loosen the turnbuckle I. If the tension is too low, tighten the turnbuckle I slightly and then the wing nut H.

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

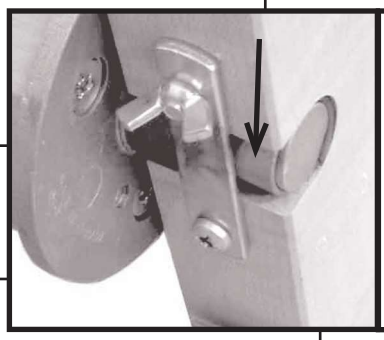
WEAVING
To advance the warp, depress brake treadle (C) and turn cloth beam (H) at the same time. Then, release brake treadle (C) (engaging the brake) and advance the cloth beam until the desired tension is achieved.



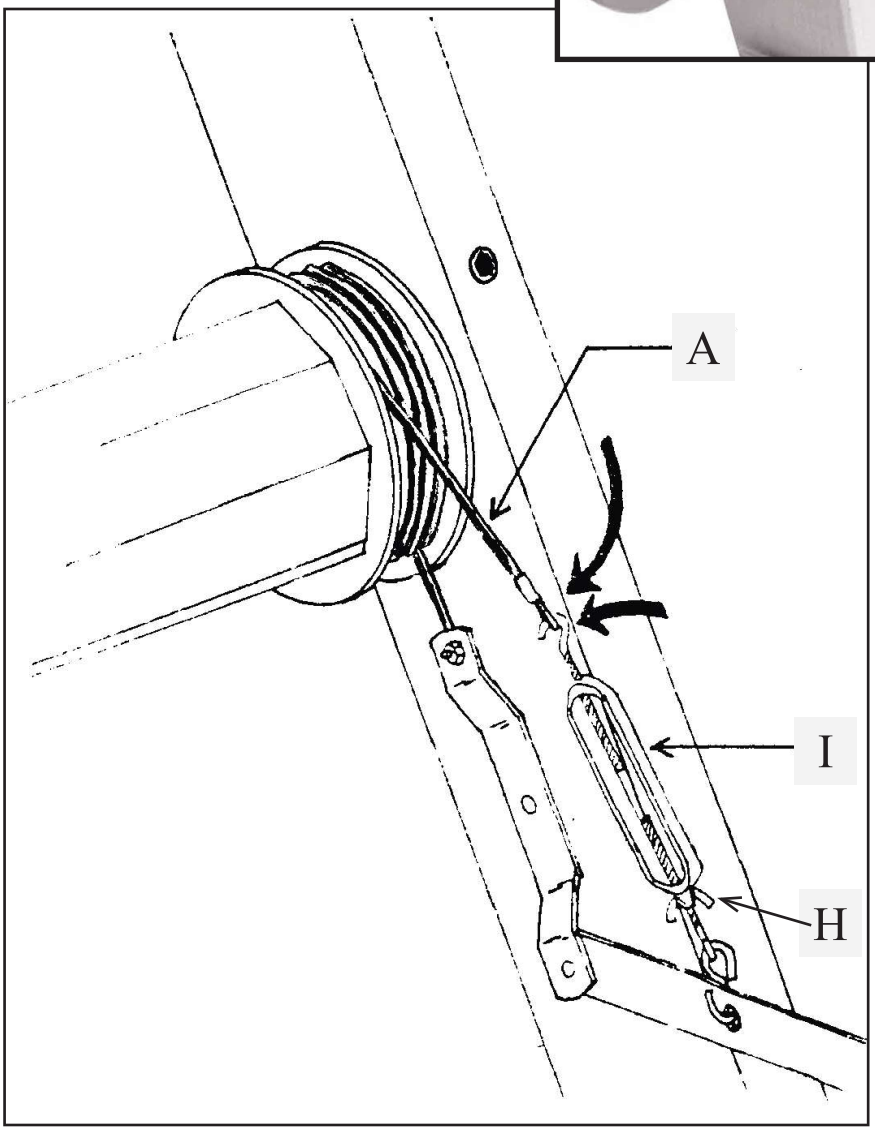
WARP BEAM INSTALLATION

Hold the circular band 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.



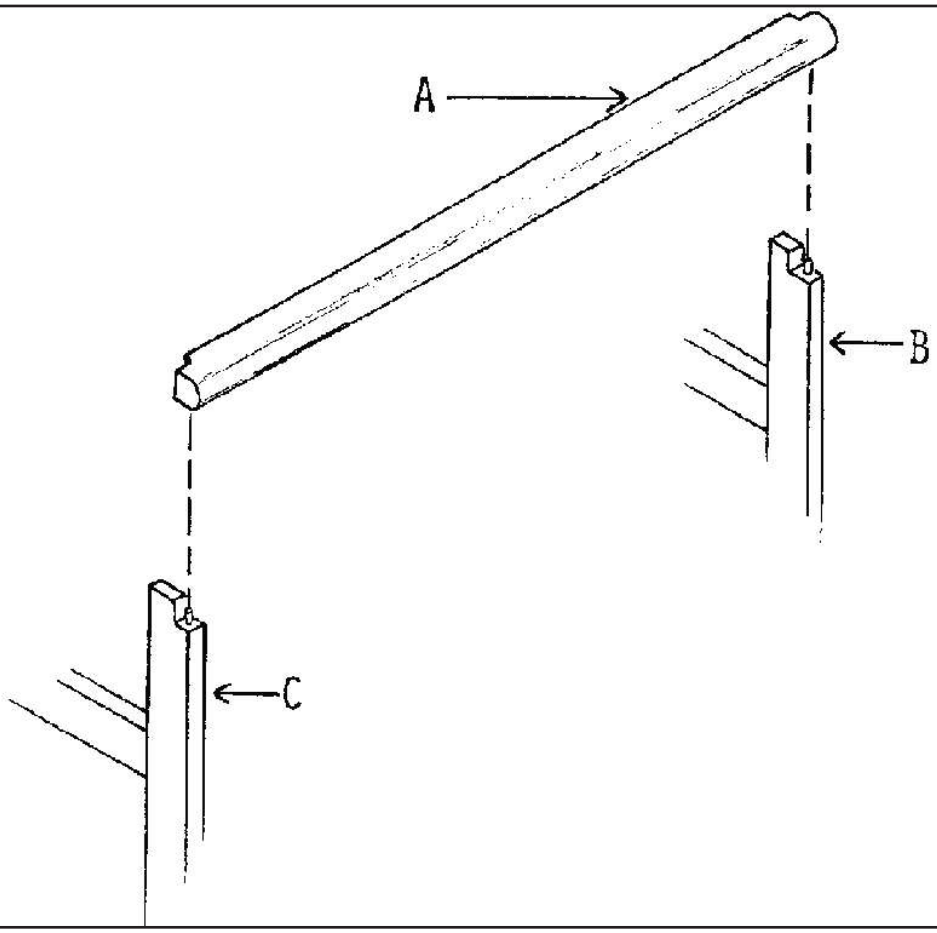
In order to improve the rotation of the warp beam, special bushings are supplied. Make sure to leave them in place when installing the warp beam on the loom.



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.

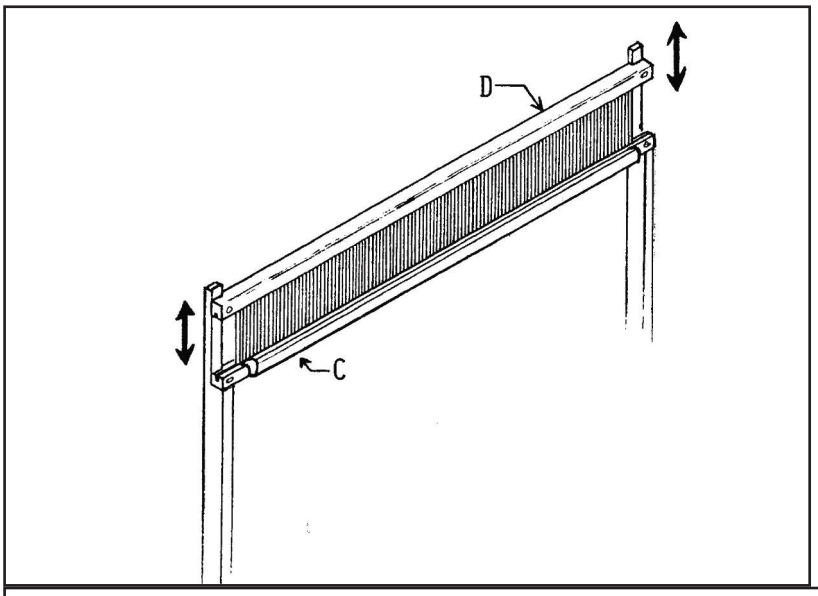
Completed break assembly



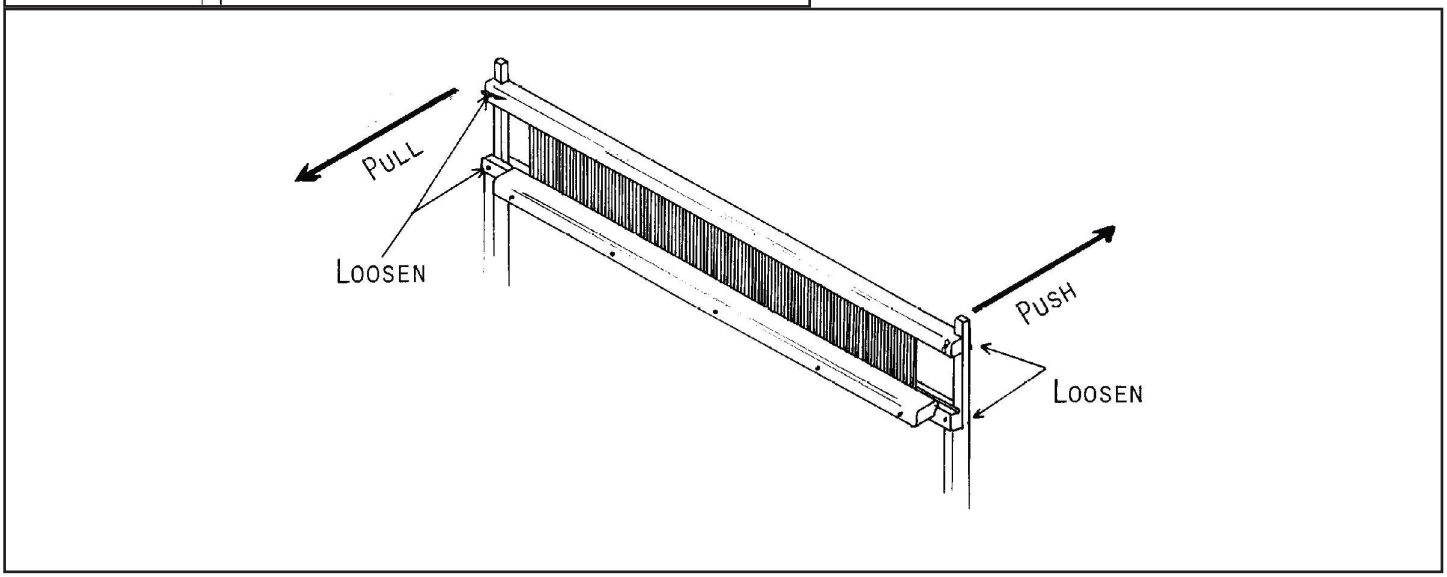
Affix one of the breast beams A on the top of the front posts B and C.

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.



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.



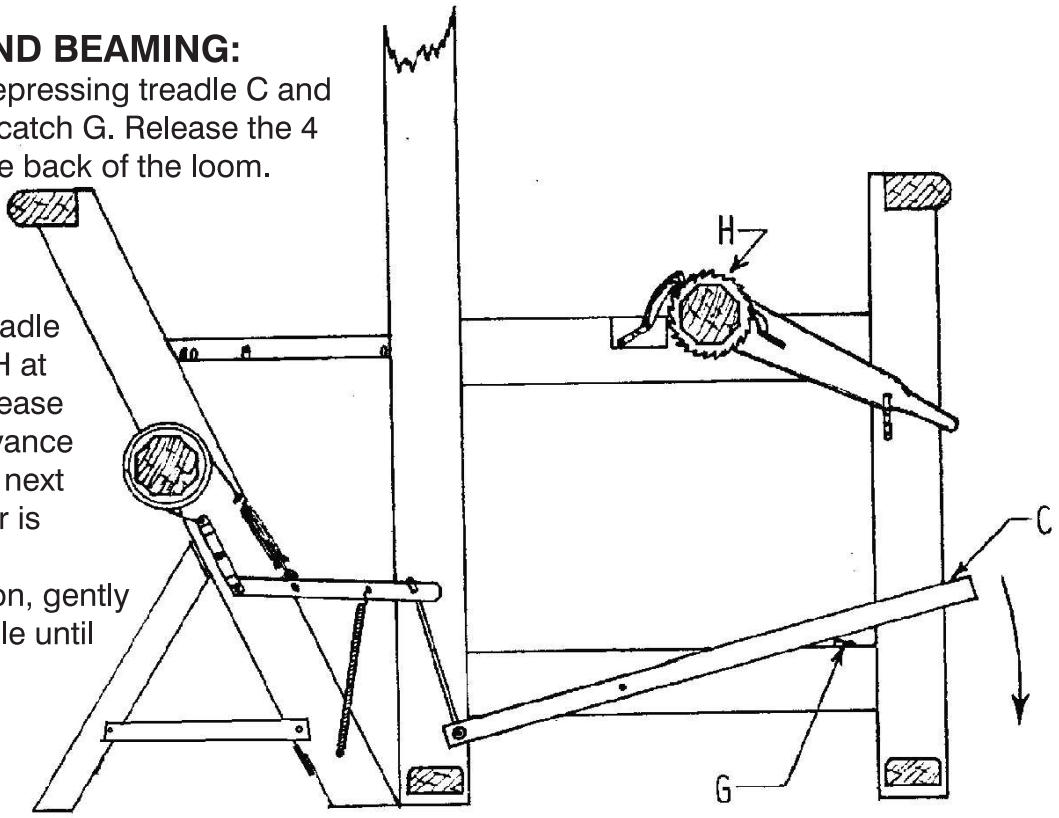
If the batten does not touch the two bumper equally, loosen the bolts of the batten sley and batten handtree and exert pressure on the batten centering it in its proper place. Tighten the bolts again while keeping pressure in the batten.

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.

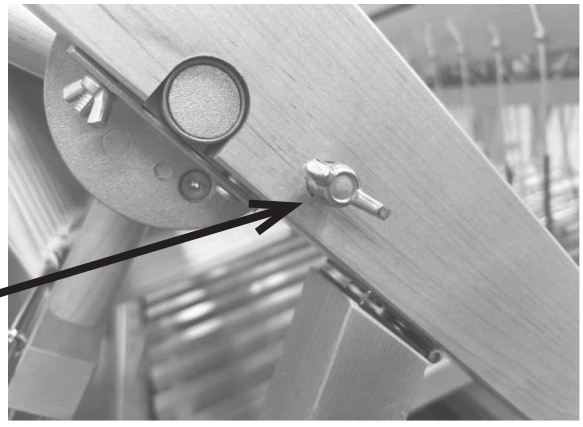


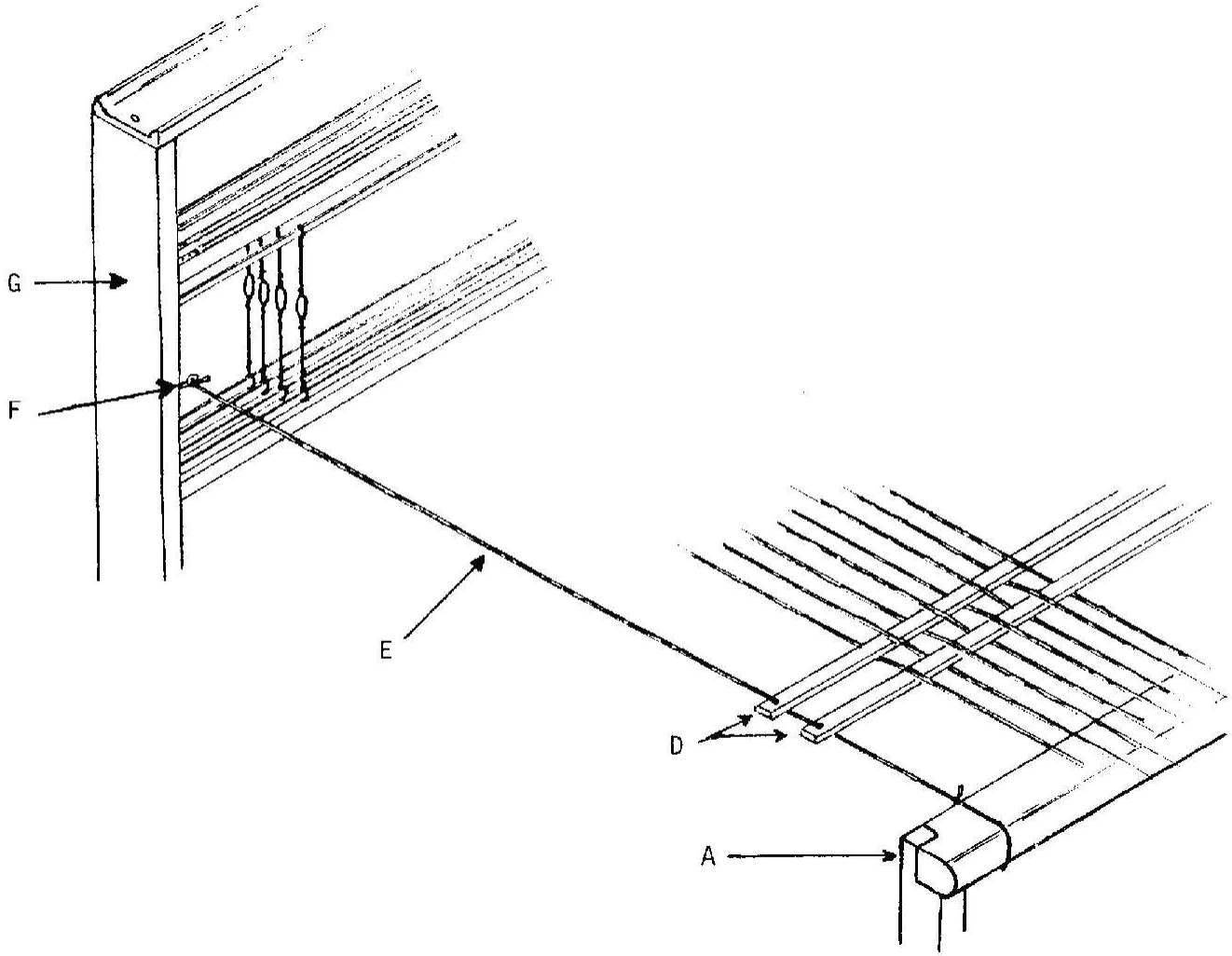
Note while winding a warp with a Leclerc Friction Brake

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 sudden 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 wing nut to increase the friction or unscrew it to release.





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.

TO CHANGE THE AMOUNT OF HEDDLES PER SHAFT FRAME:

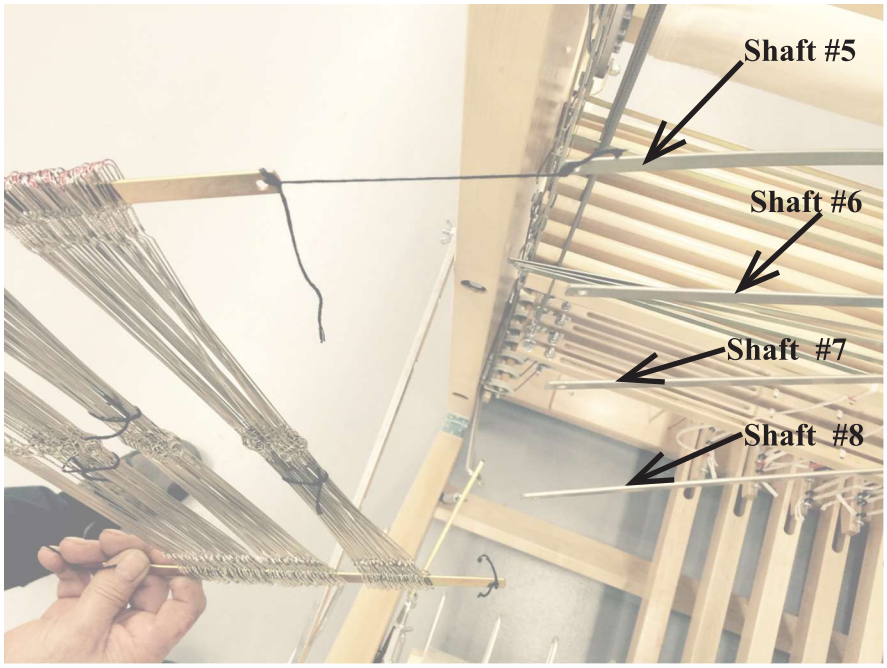
1) On one side of the loom, unlock the heddles supports (top and bottom) Bend them a little to remove them from one side of the loom .

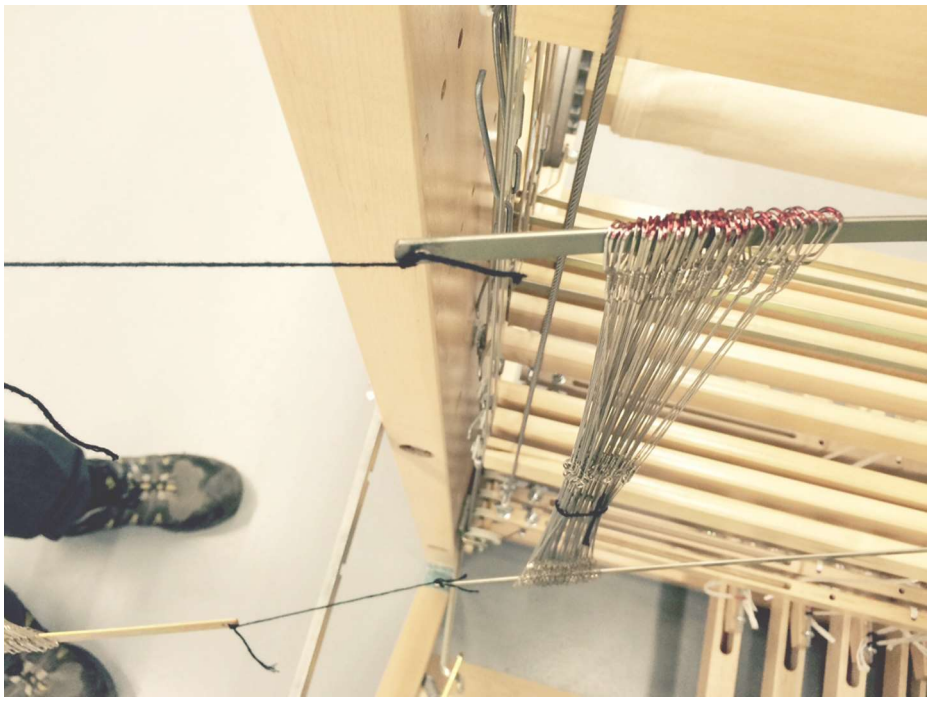
2) Join with a cord the heddles support to the small heddle transfer bars.

3) Slide the heddles in or out.

4) Disconnect the small heddles transfer bars and re-install the heddles supports to the loom.

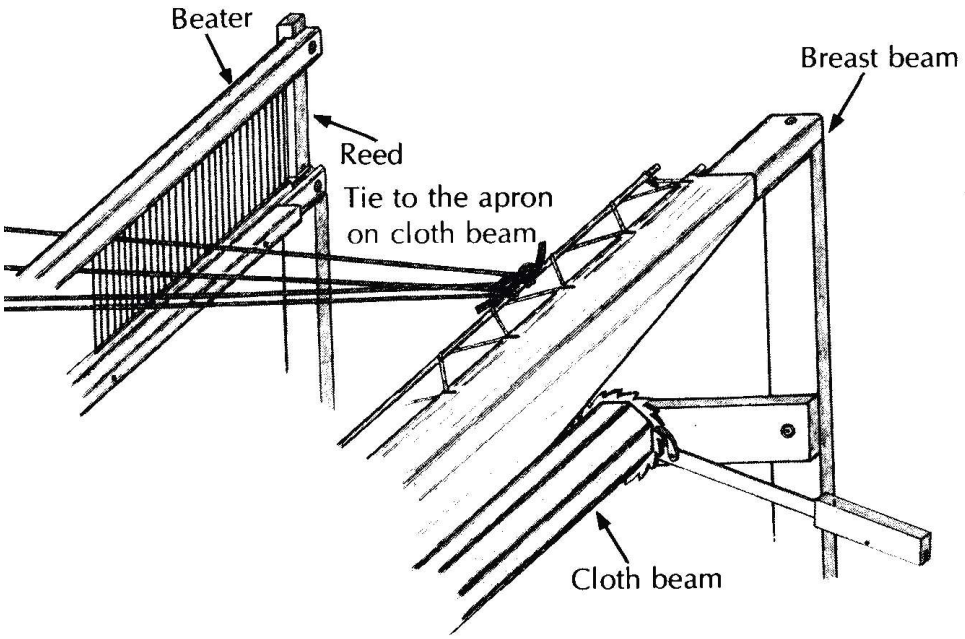
5) Repeat this for all the shaft frames. Frames 1, 2 3 and 4 have to be made from the front.
Shaft frames 5, 6 7 and 8 from the back.





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

Noir et Blanc	**3-12**	**15-18**	**25-33**
Couleur	**1-2**	**13-14**	**19-24**