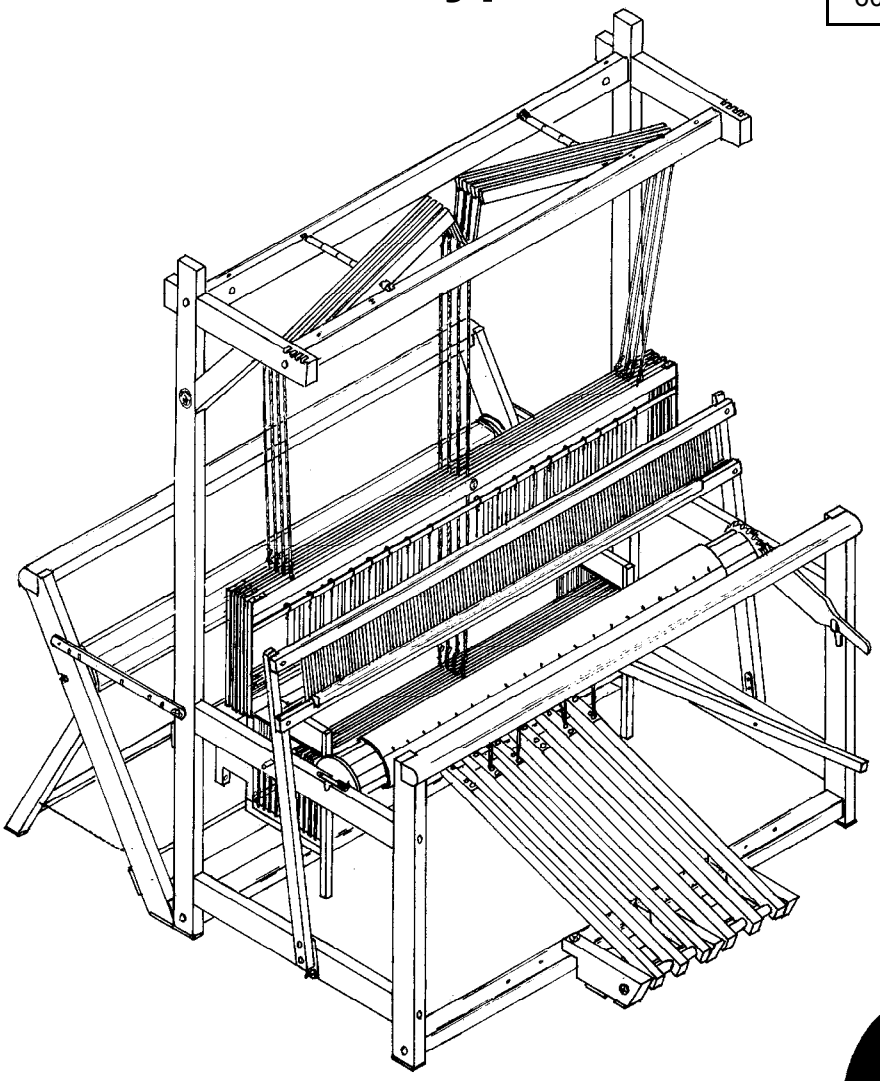
COLONIAL I 4s, 8s &12s
Jack type

	4s	8s	12s
45"	1051-0000	1051-0008	1051-0012
60"	1052-0000	1052-0008	1052-0012



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.

Leclerc Looms
Since 1876

1573 Savoie
C. P. 4
Plessisville, Qc.
G6L 2Y6

TEL: 819-362-2408
FAX: 819-362-2045

leclerc@leclerclooms.com
www.leclerclooms.com

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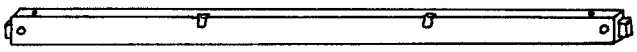
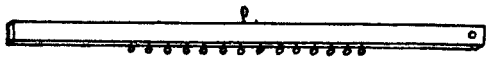
updated: 10/2000

PARTS LIST

right and left side loom parts (4)

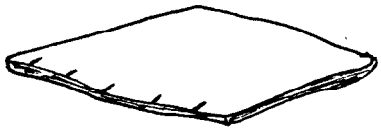


2 upper cross-member



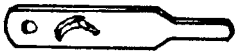
4 (8 or 12) floating lams

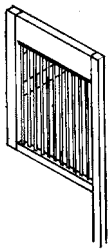
Note for Leclerc Looms only:
Oeillet au centre seulement



1 apron

1 cloth take-up motion handle



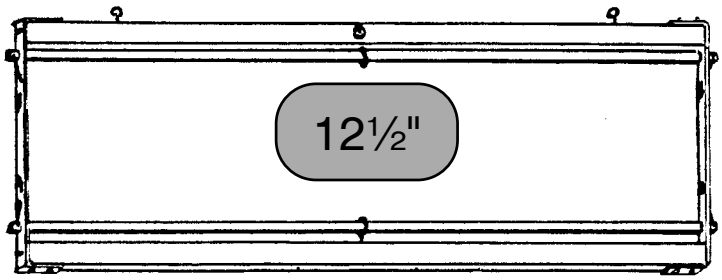


2 lams separator

4, 8 or 12 pairs of jacks

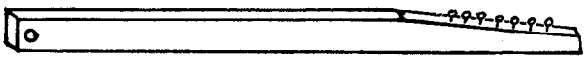
2 jacks rods 5/16 x 11.5"

Note for Leclerc Looms only:
Belle qualité de métal



4 (8 or 12) shaft frames

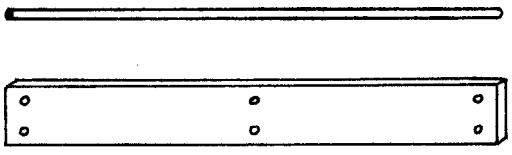
Note for Leclerc Looms only:
7 oeillets



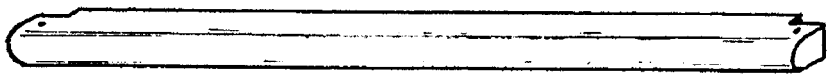
6 (10 or 14) treadles

3 treadle supports

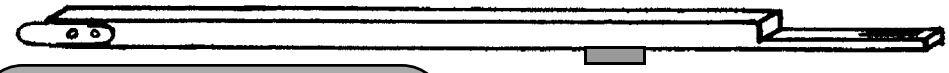
1 treadle set rod and 2 push nuts



1 treadle set board 4s= 16.75"
8s= 27.5"

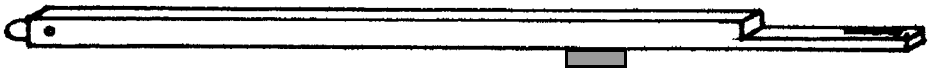


2 breast beams

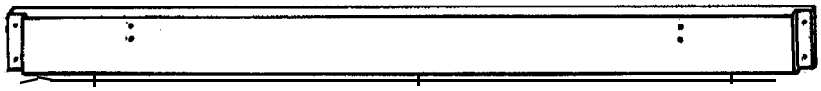


1 left sword

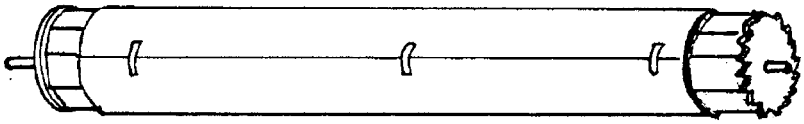
Note for Leclerc Looms only:
Ferrure ajustées au centre



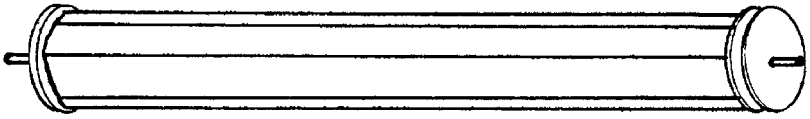
1 right sword



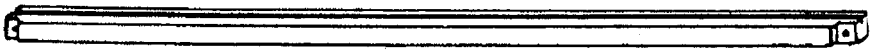
1 middle cross-member connecting uprights
+ 6, 10 or 14 Treadles Springs
+ Spring Rod



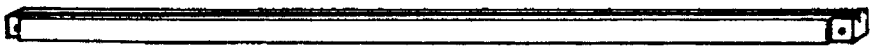
1 cloth beam



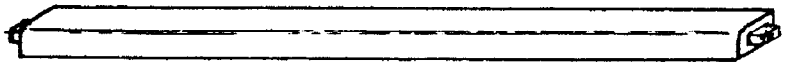
1 warp beam



1 batten handtree



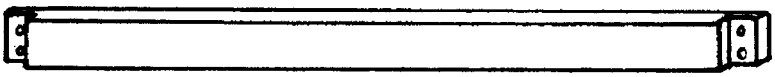
1 batten sley with shuttle race



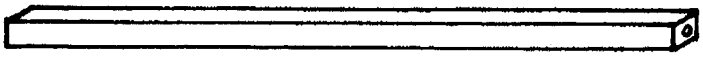
1 middle cross-member

1 treadle set cross-member

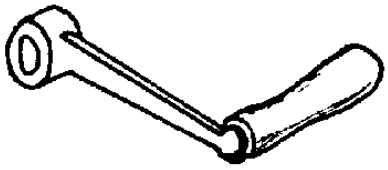
Note for Leclerc Looms only:
7 trous pour tous les métiers



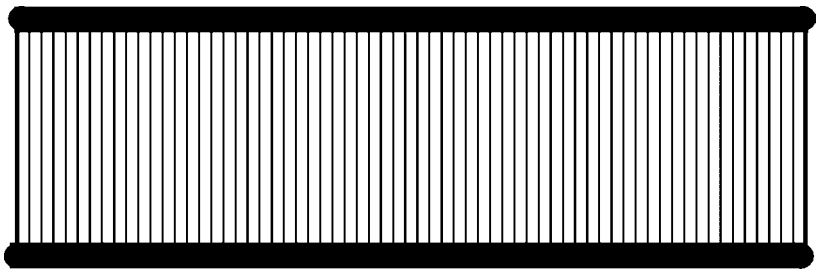
1 lower-back board connecting back posts



1 cross-member connecting stabilizing posts.



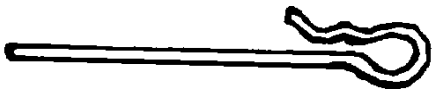
1 crank (back beam)



1 reed

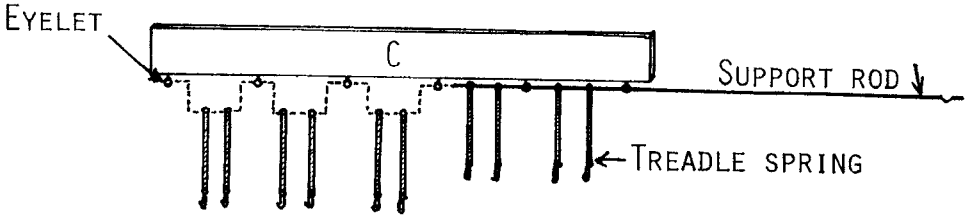
2 lease sticks

4 warp rods



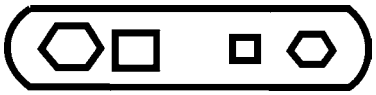
6 (10 or 14) treadle hooks 12"

2 sets (5 sets or 8 sets) treadle cords 7"



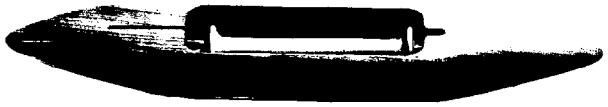
1 treadle spring metal rod with 1 spring per treadle

3 screwdrivers (red, green and black)



1 aluminum wrench

1 adjustable wrench



1 boat shuttle

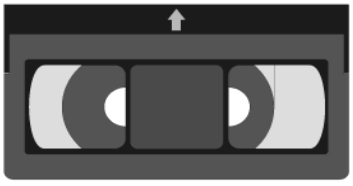
12 plastic bobbins

1 Reed hook (long)

2 pk of cord (5 yd each)

2 Unvarnished wooden bars with
black stripe app. 15" long

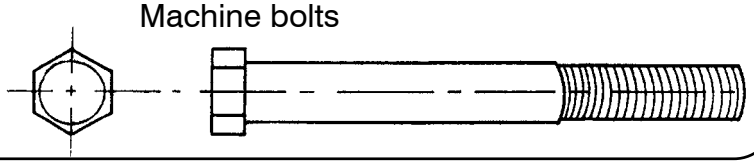
2000 heddles (45" loom)
2500 heddles (60" loom)



1 VHS instruction Video
showing all stages of
installation.

Machine bolts

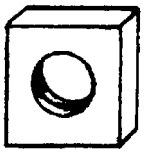
8 X 3/8" x 5"



Carriage Bolts

2X - 5/16" x 2¼" (swords)
4X - 5/16" x 2½" (Beater)
3X - 5/16" x 4" (Treadle set)
2X - ¼" x 2¼ (Back post hooks)

Square nuts

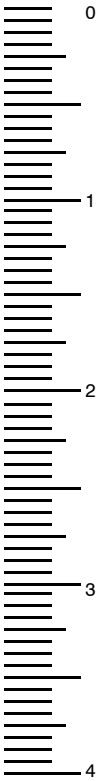


8 3/8" (10 mm)
2 5/16" (8mm)

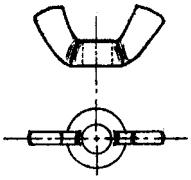
Washers

38X - 3/8"
9X - 5/16"
4X - 9/16"

2X eye screws
(lease sticks)



Wing nuts

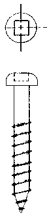


5X - 5/16" (8 mm)
2X - ¼"

HEXAGON NUTS

2X- Nylon auto lock 5/16"

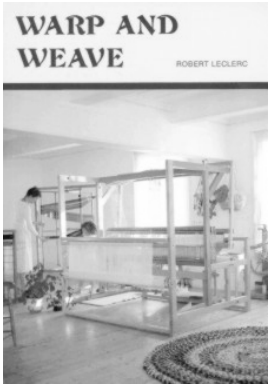
Round headed screws



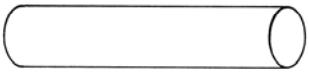
4X - #12 x 1½"
2X - #14 x 2½"
4X - #14 x 2" Lams guides

Flat headed screws

6X - #8 X 1" (Back post)
4X - #12 x 1.5" (Back board)

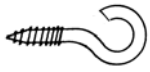


1 book Warp&Weave

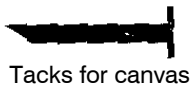


2 wood beater stopper
5/8" x 2.25"

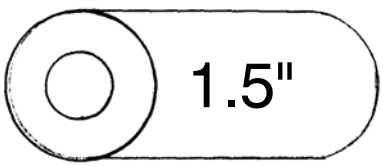
2 loop cord for back post 20"
8, 16 or 24 short cord 23 7/16"
4, 8 or 12 long cord 42 1/2"



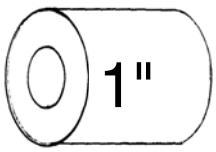
4 screw eyes R6 for back post



Tacks for canvas



8s loom =8 for treadle set + 8 for jacks
12s loom = 12 for the treadle set



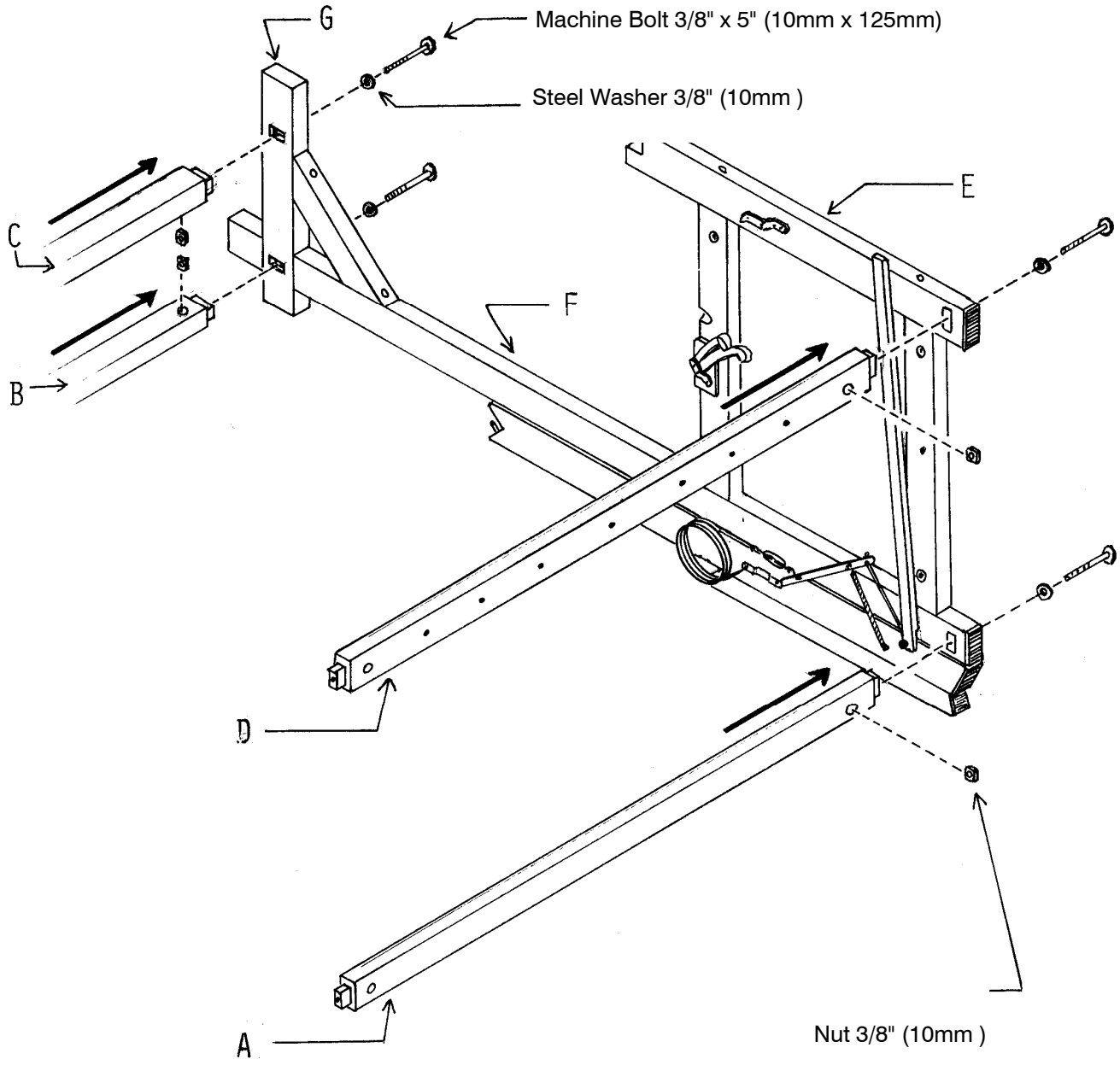
2 for jacks

RIGHT SIDE LOOM ASSEMBLY

- Remove temporarily peace of wood.
- Open back post and affix back post hooks to the center piece using:
  one Machine bolt ¼" x 2¼" and one wing nut ¼" (on outside of the loom)
- Insert tenons of the front piece into the mortise of the center piece of the side loom.
- Use 2 machine bolts 3/8", 2 washers and square bolts 3/8". Washers goes outside of the center piece.
- Make connection between brake treadle and brake rod. (black rubber goes inside holding treadle rod in place).

LEFT SIDE LOOM ASSEMBLY

- Remove temporarily peace of wood.
- Open back post and affix back post hooks to the center piece using:
  one Machine bolt ¼" x 2¼" and one wing nut ¼" (on outside of the loom)
- Insert the tenons of the front piece into the mortise of the center piece of the side loom.
- Use 2 machine bolts 3/8", 2 washers and square bolts 3/8". The washers goes outside of the center piece.

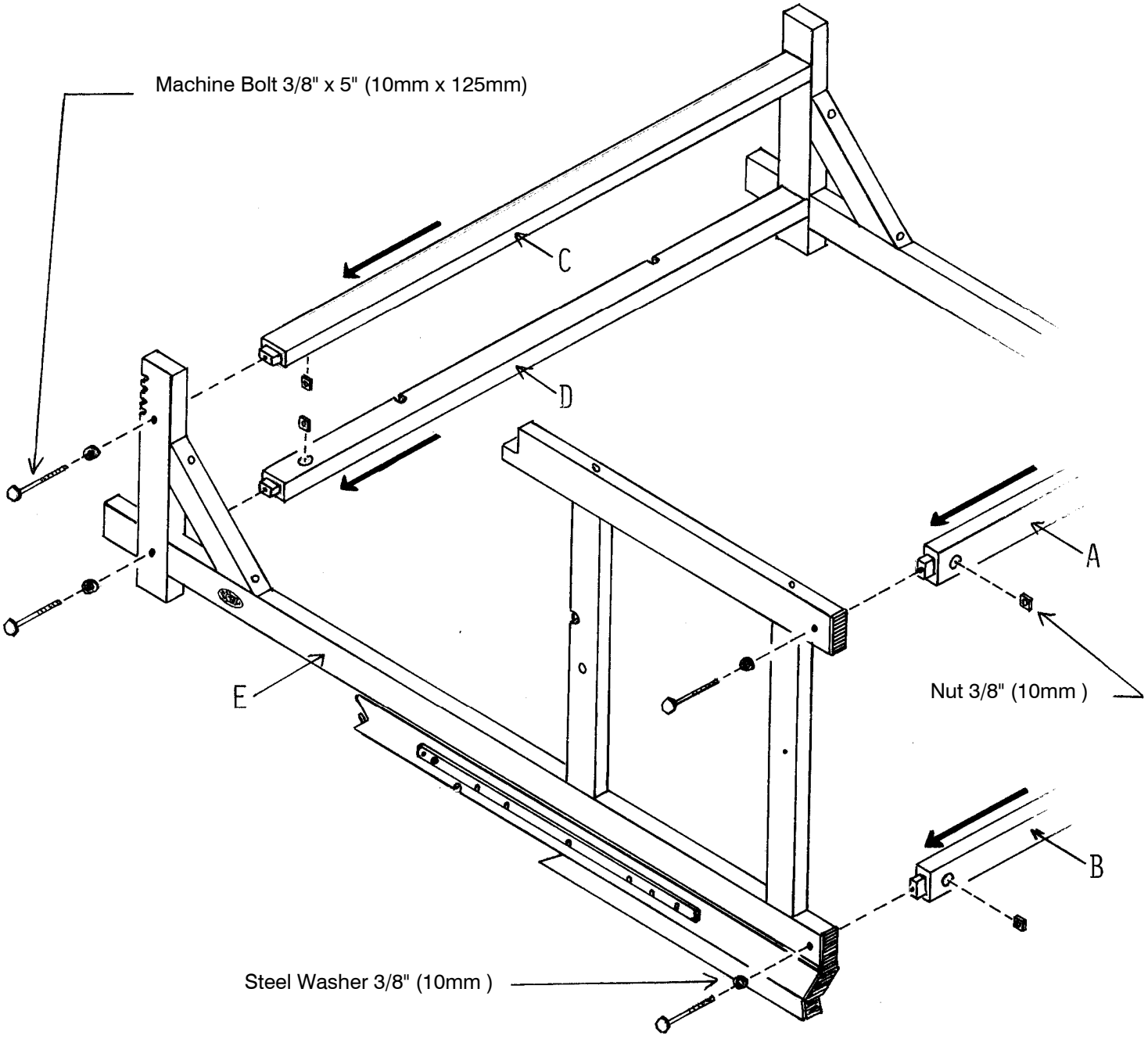


CROSS-MEMBER ASSEMBLY

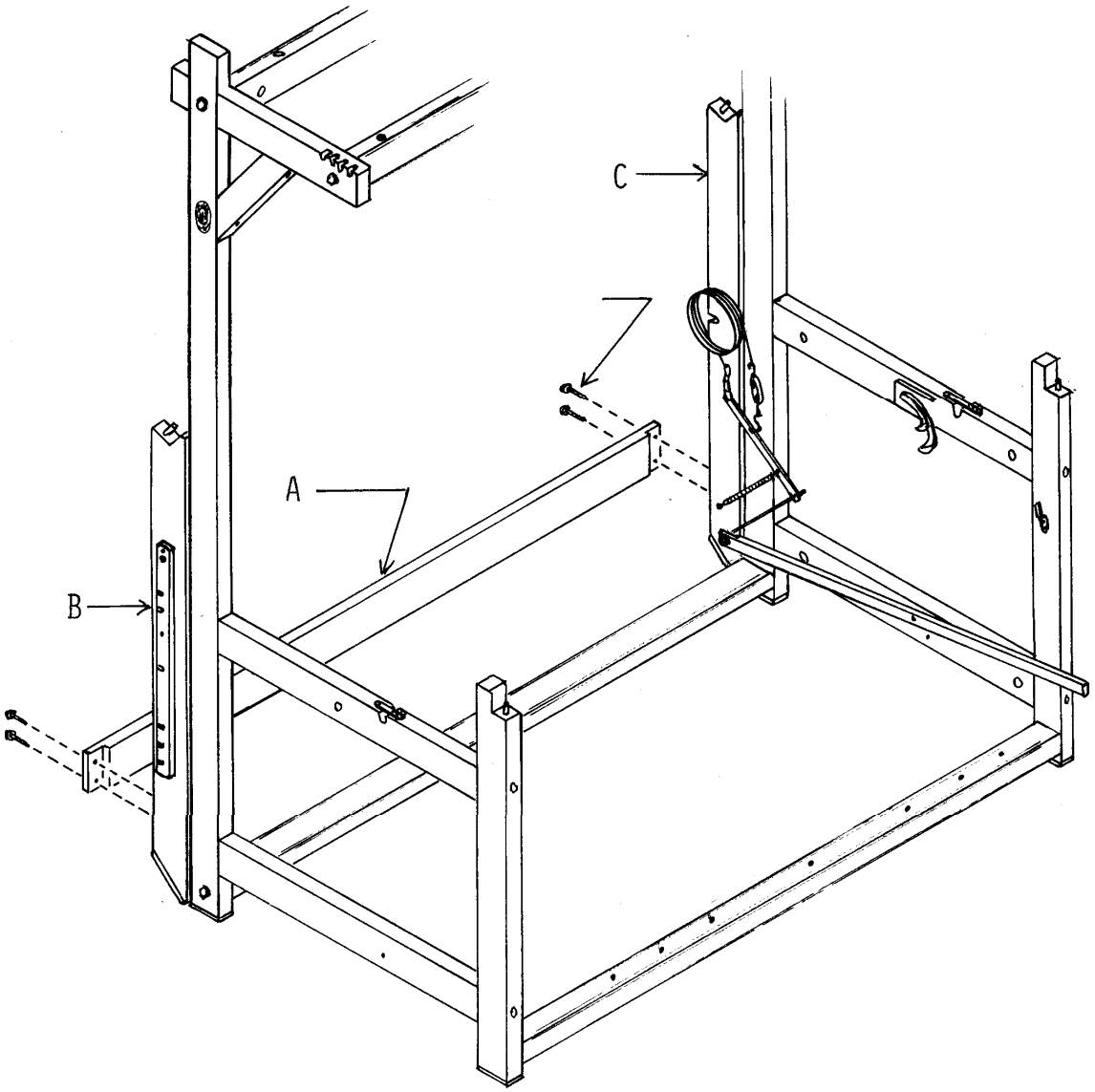
1) Insert a tenon of the lower middles cross-member A into the lower mortise of the middle post F.
   note: the middle cross-member A does not have any holes drilled through it or notches.
2) Insert a tenon of the upper back cross-member B into the back mortise of batten support G.
   note: the upper back cross-member B is one of the two cross-member 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 has 3, 5 or 7 holes drilles through it to fix the treadle set.

Cross-member 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.

NOTE: In the Video, we install the lower cross-member on both side first then we install the top ones.

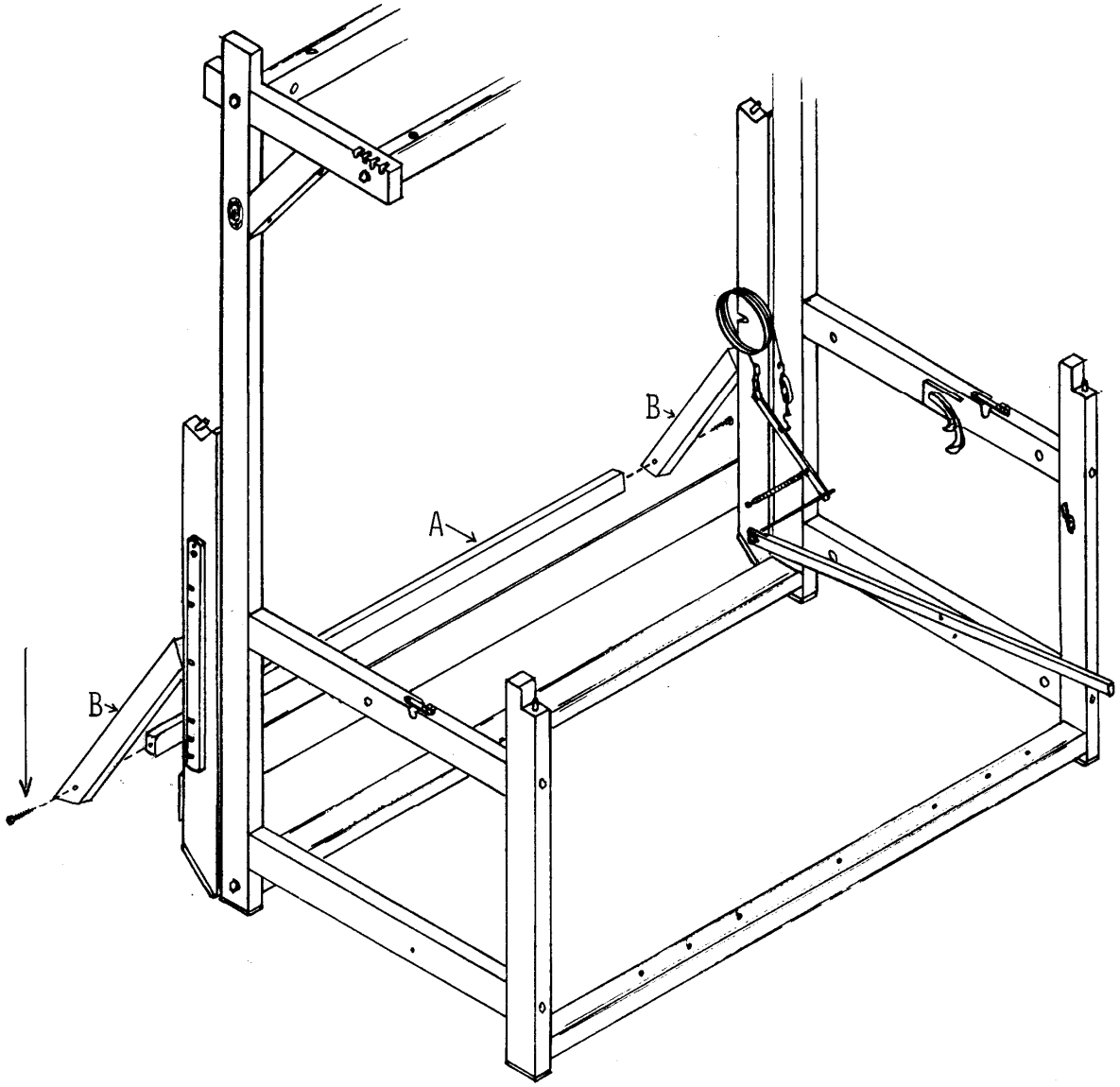


Insert the tenons at the other end of the cross-members A, B, C and D into the mortises of left-hand E of the loom.

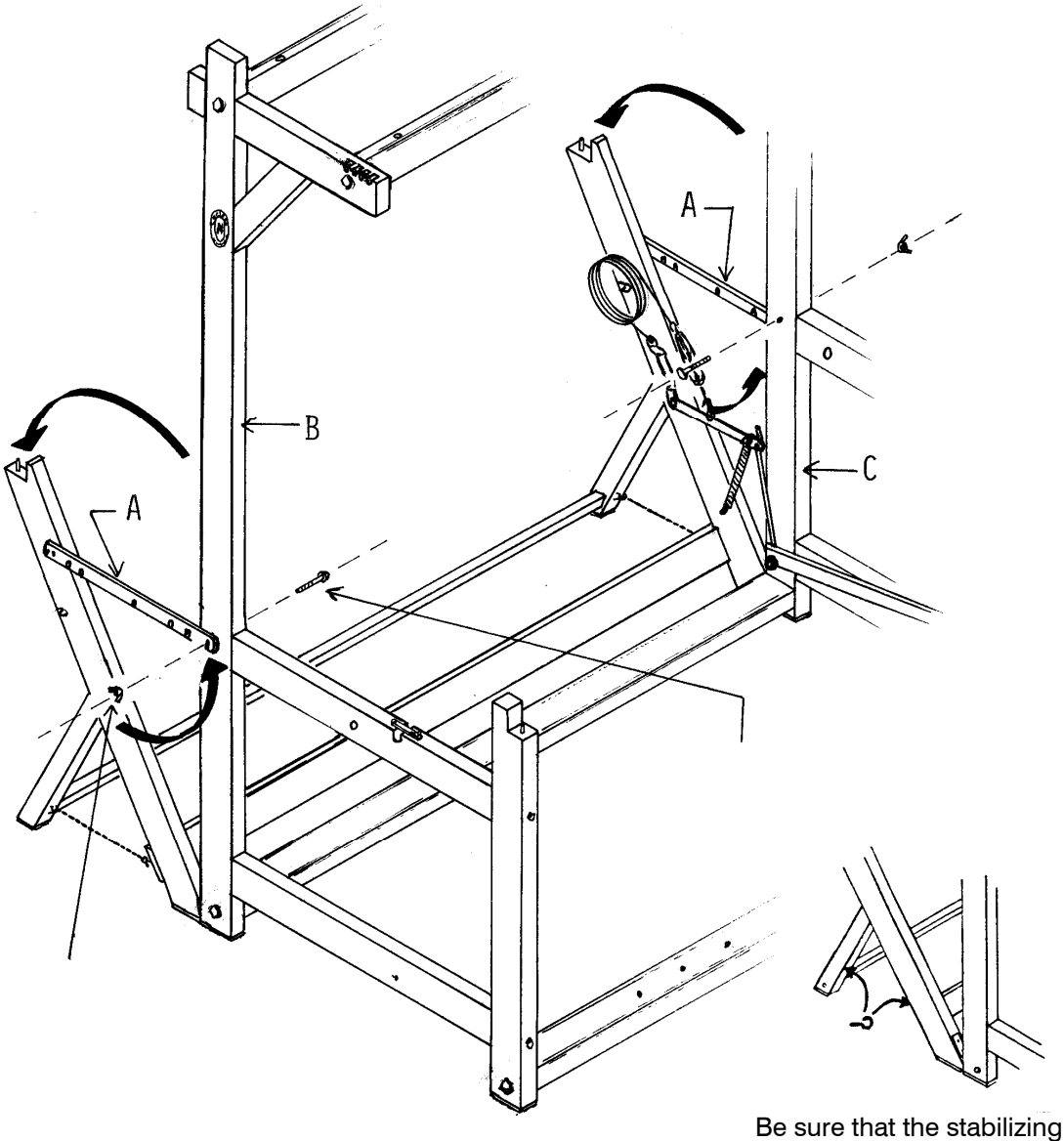


Using four 1 1/2" (40mm) round-headed screws No. 12, affix the lower cross-member A to the posts B and C.

Note: Application of soap to these screws will make their insertion easier.



Using two 2 1/2" (65mm) round-headed screws No 14, affix the cross-member A to the stabilising posts B.



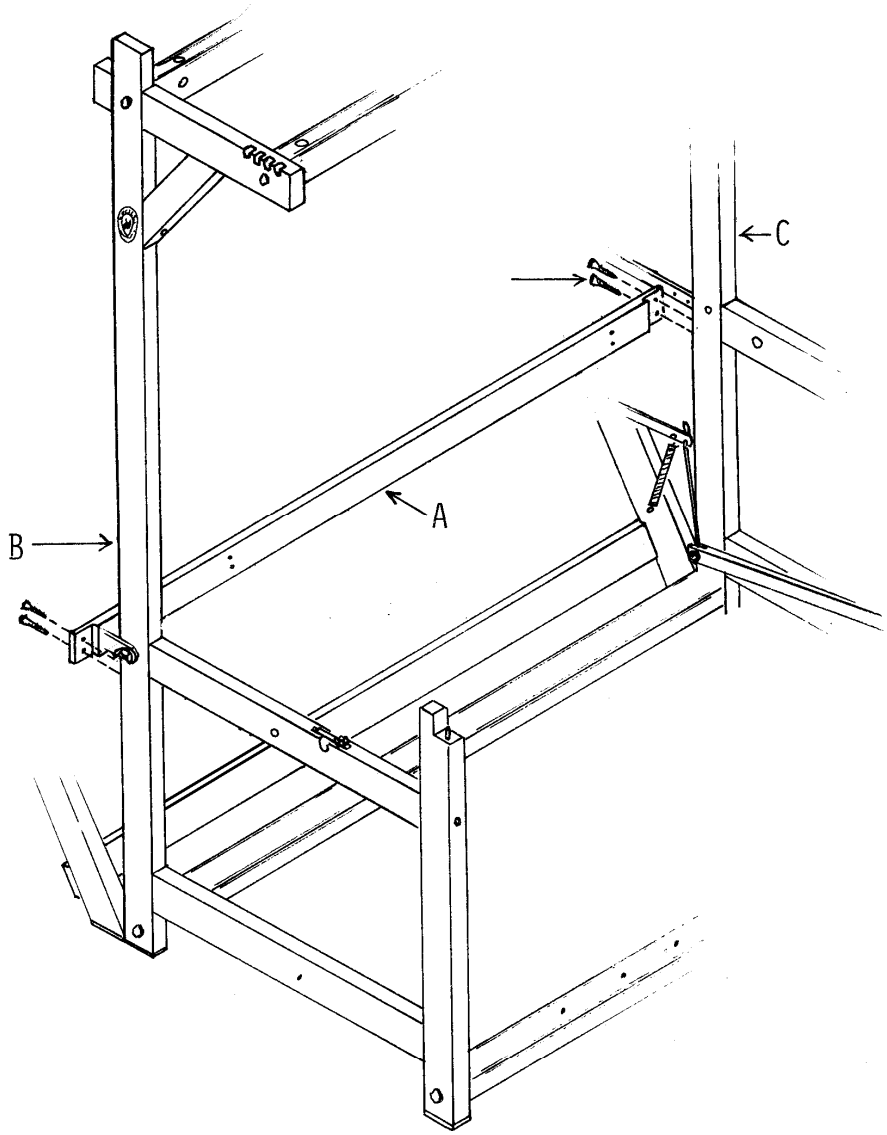
Unfold the back section of the loom and lock it in place with the metal hooks A.

Insert a 1/4" x 2 1/2" (6mm x 56mm) carriage bolt into the holes of the uprights B and C.

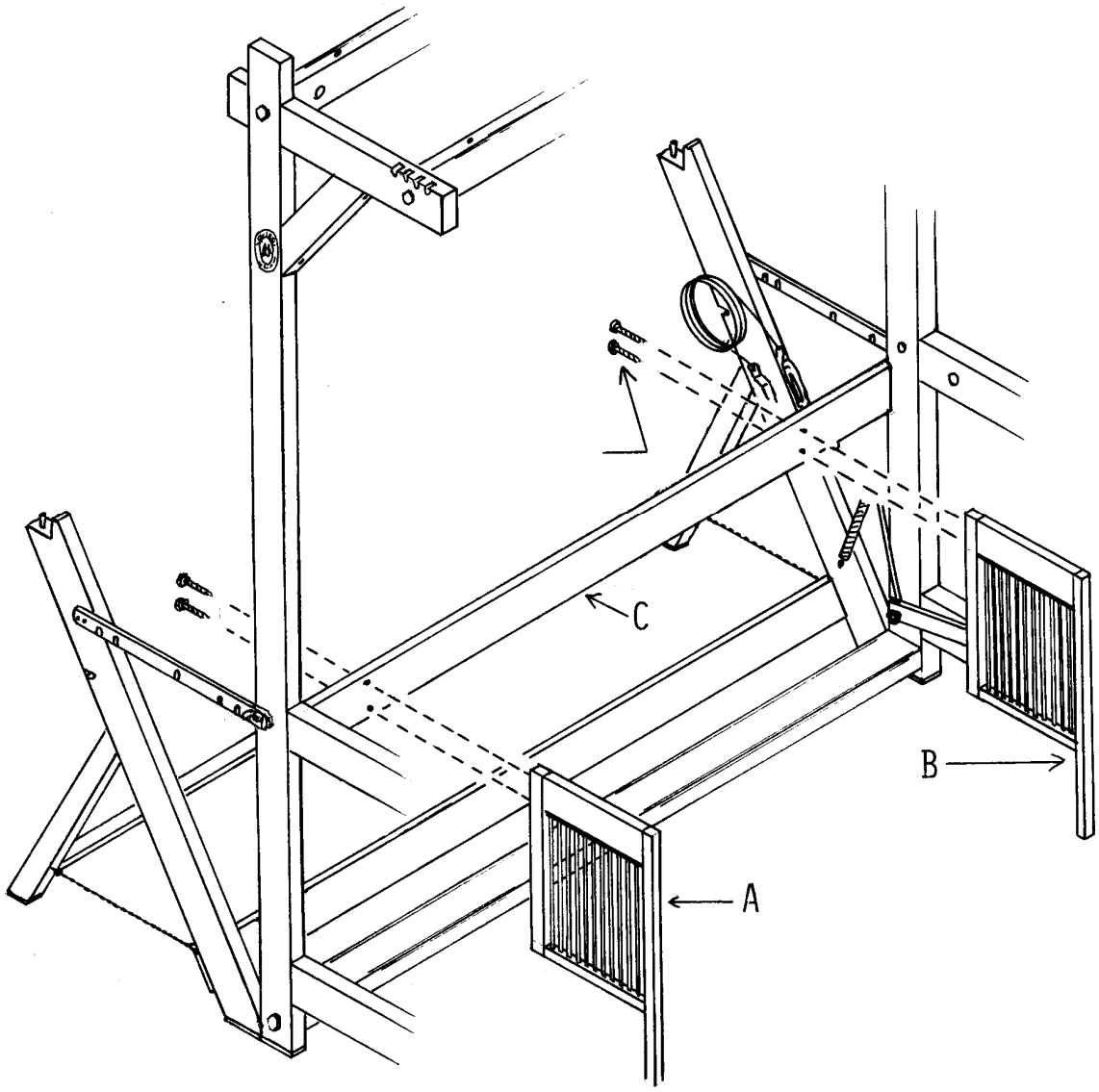
Insert last notch of the metal hook in the bolt and fasten with wing nut.

Be sure that the satbilizing posts are open and flat on the floor.
Affix two hooks on each side into the predrilles holes.

Be sure that the stabilizing posts are open and flat on the floor.
Affix two hooks on each side into the predrilles holes.
Put in place the loop cords B. These cords need to be tight, so they will secure the stabilizing posts.



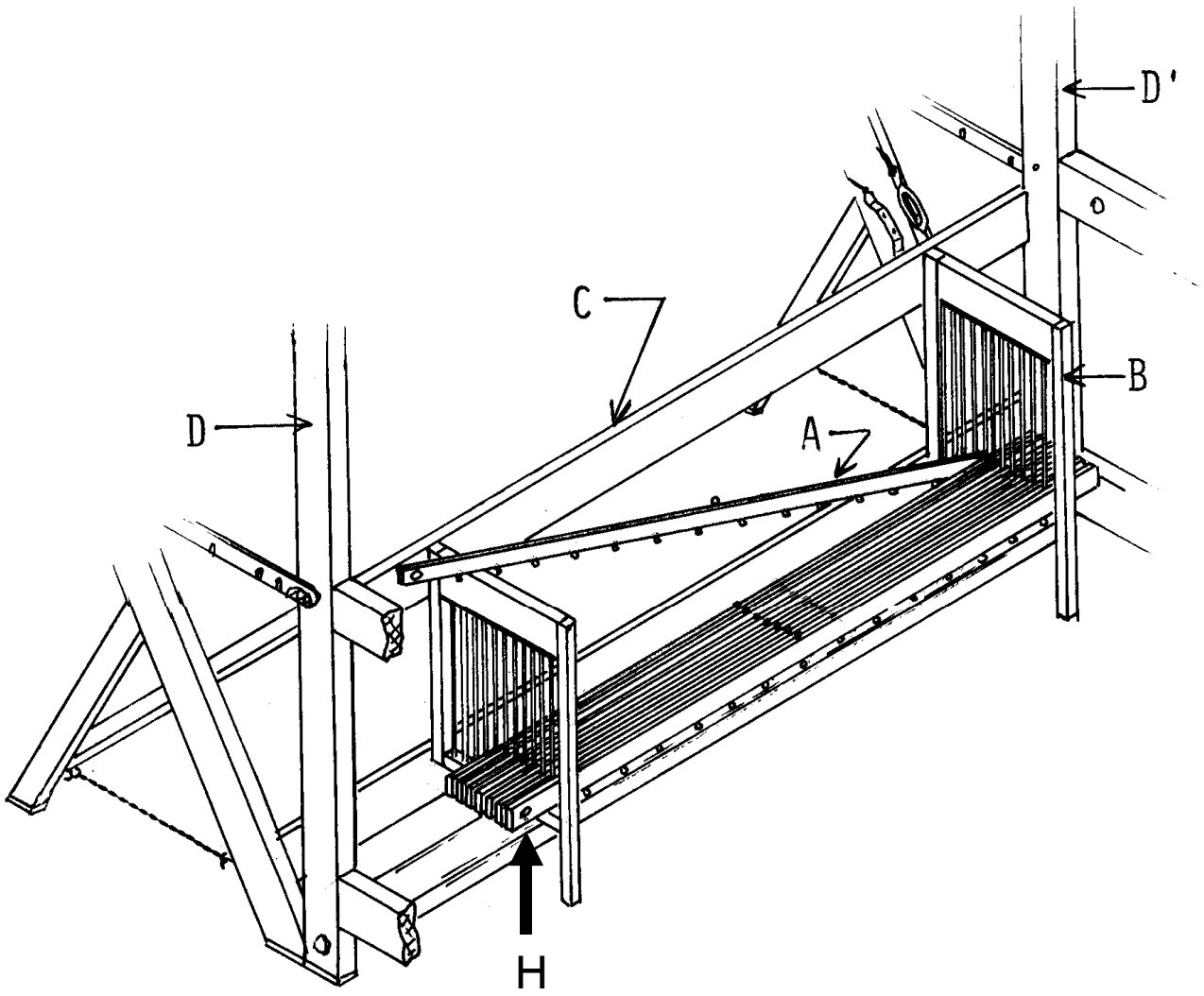
Using four 1 1/2" (40mm) flat-headed screws No. 12, affix the middle cross-member A to the rear of the middle posts B and C.



Using four 2" (50mm) round-headed screws No 14, affix the lam dividers A and B to the central cross-member C.

IMPORTANT NOTE:

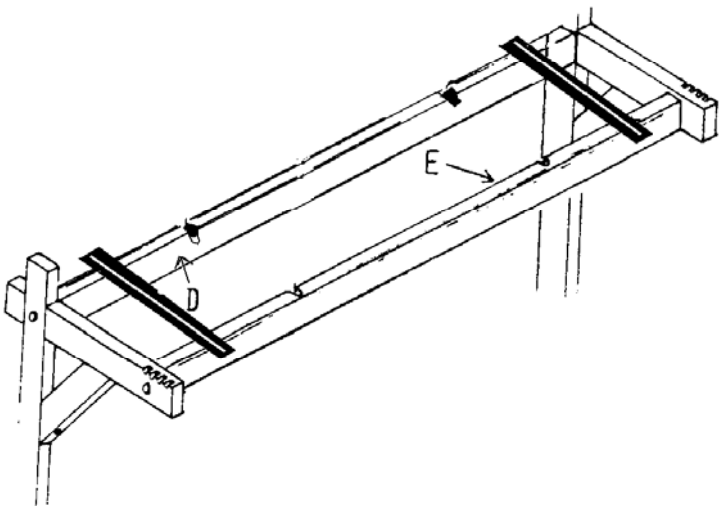
If it is a 12s loom, insert lams # 11 and 12 before fixing the guides "A" & "B" to the loom.
See page 17



Install lams A between the cross-bars of the lam dividers B and C, starting at the front.

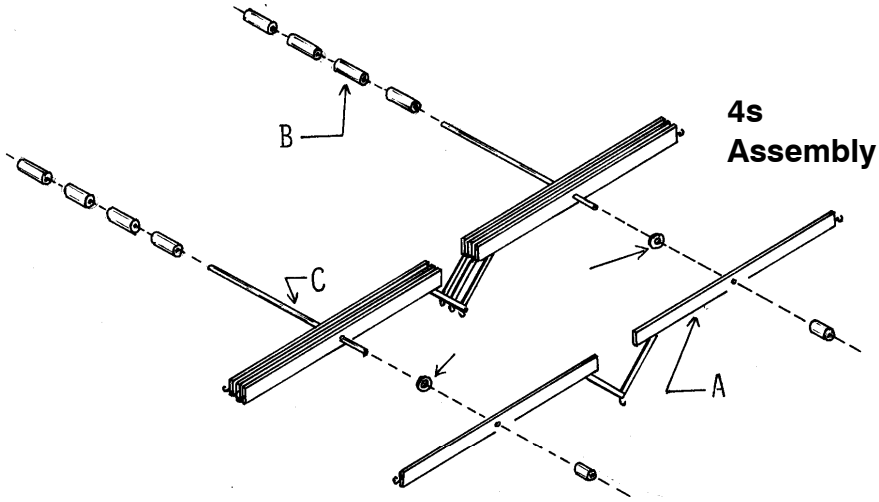
NOTE: The upper side of the lam has only one screw eyes in the middle.
Hole H goes at the left side of the loom.

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



JACK SET ASSEMBLY

4S ASSEMBLY:
Start with a SHORT wooden space, then four jacks with a steel washer between each of them and finish with four LONG wooden spacers.

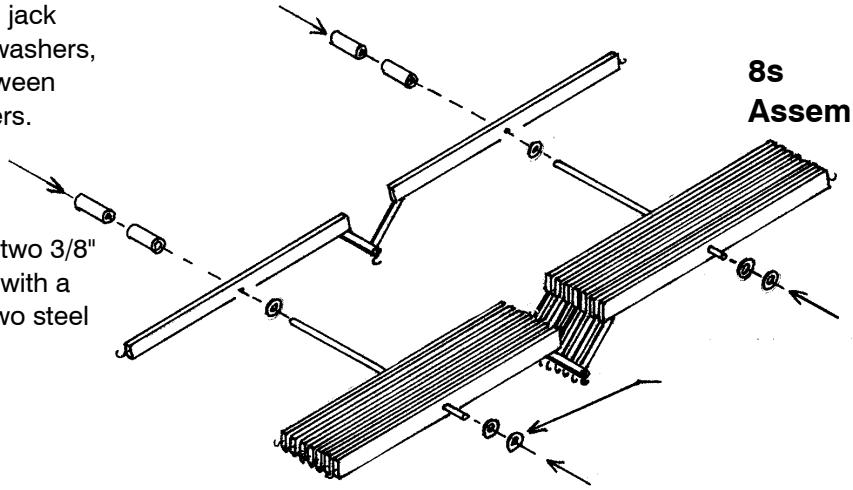


4s Assembly

JACK SET ASSEMBLY

8S ASSEMBLY:
The 8s jack set sequence (on each jack axle rod) will be: two 3/8" (10mm) washers, eight jacks with a steel washer between each, then two long wooden spacers.

12S ASSEMBLY:
The 12s jack set sequence will be: two 3/8" (10mm) steel washer, twelve jacks with a steel washer between each, then two steel washers.



8s Assembly

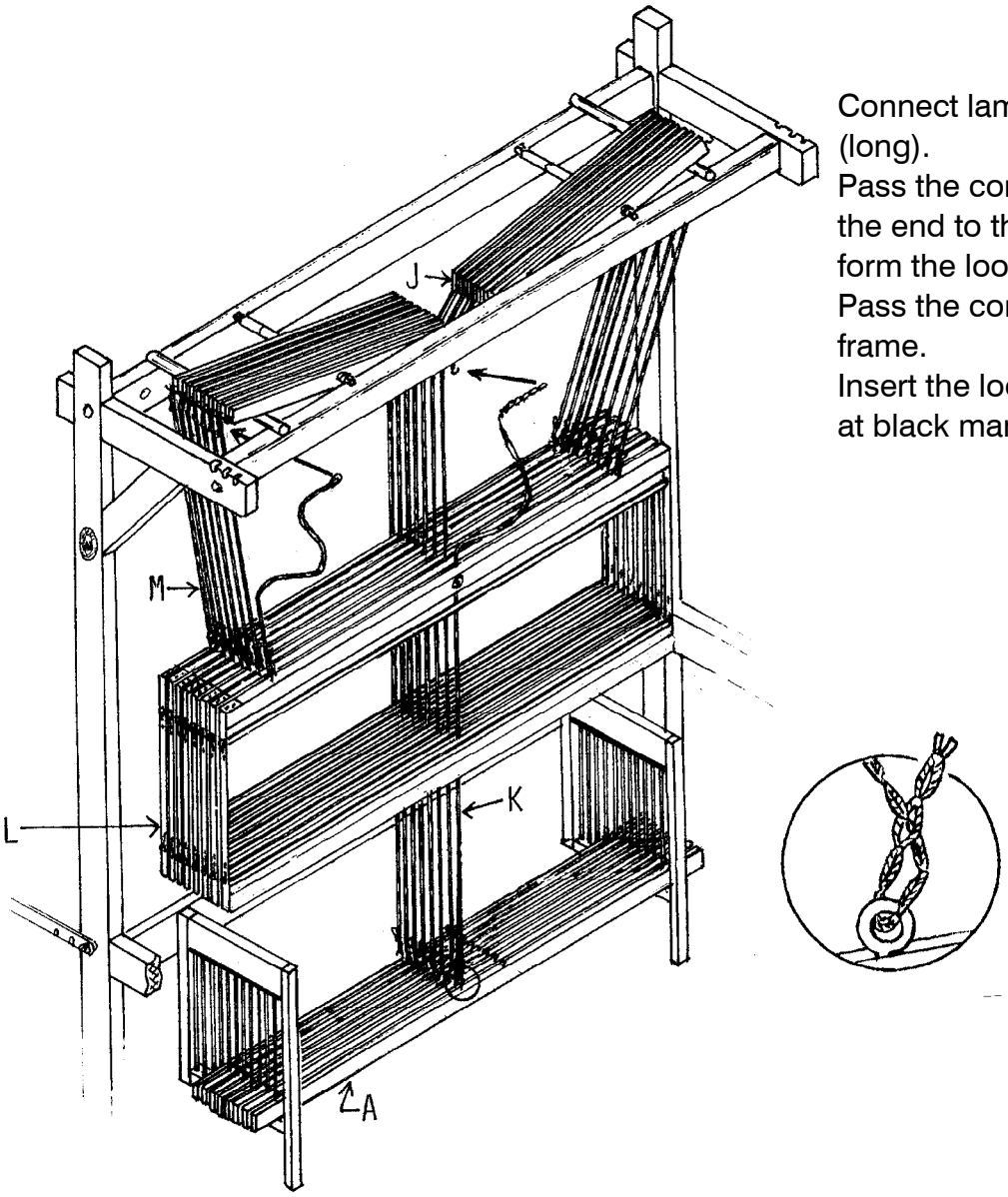
Fold the jack set as in the picture. (right side under)
Place the fold jack set to the right side of the upper cross-member inserting the ends of the lower metal jack rods into the notches of the cross-members.
Unfold the jack set and insert the ends of the left metal jack rods into the left notches of the cross-member.

SHAFT FRAME INSTALLATION

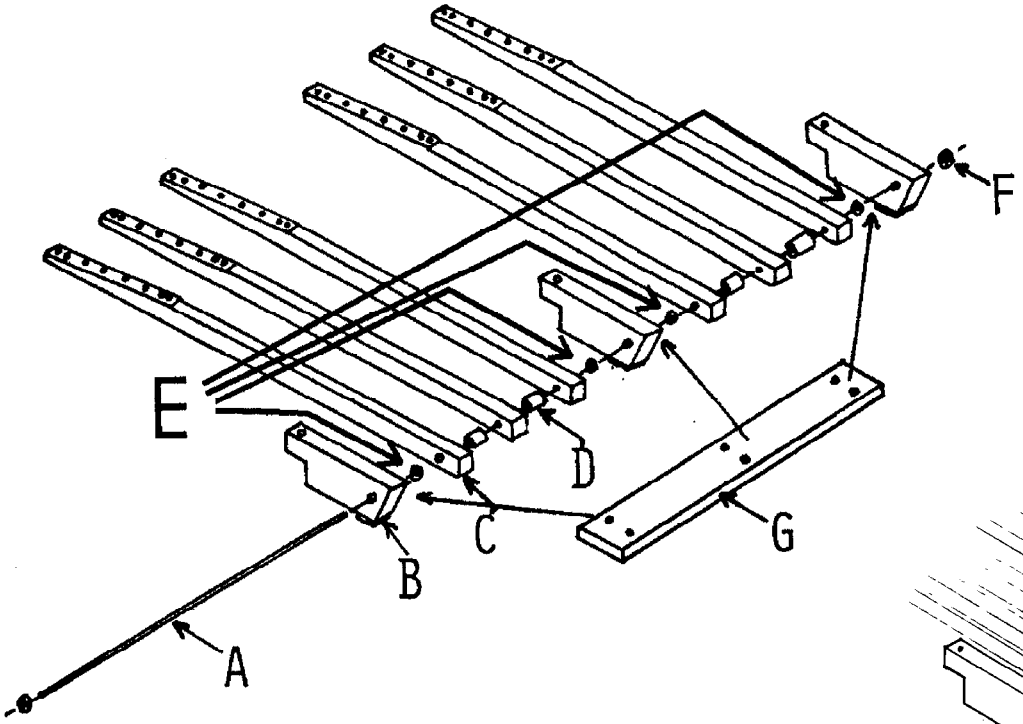
The following operation must be done on one shaft frame at a time.

Connect shaft frame L to Jacks J, using loop cords M (the shortest 23 7/16").
Insert at the black mark.

Connect lams A to jacks J, using loop cords (long 42 1/2").
Insert at the black mark agains.



Connect lams A to jacks J, using loop cords (long).
Pass the cord to the eye screw and insert the end to the second to the last loop to form the loop.
Pass the cord in the back of each shaft frame.
Insert the loop cord to the hook of the jack at black mark.



A: treadle set rod

B: treadle support

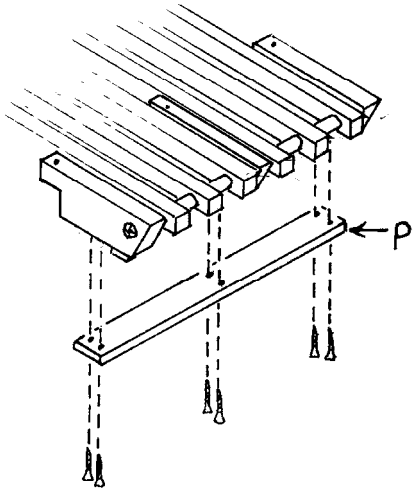
C: treadle

D: Wooden spacer

E: steel washer 9/16"

F: push nut

G: treadle set board



4S LOOM TREADLE SET ASSEMBLY:

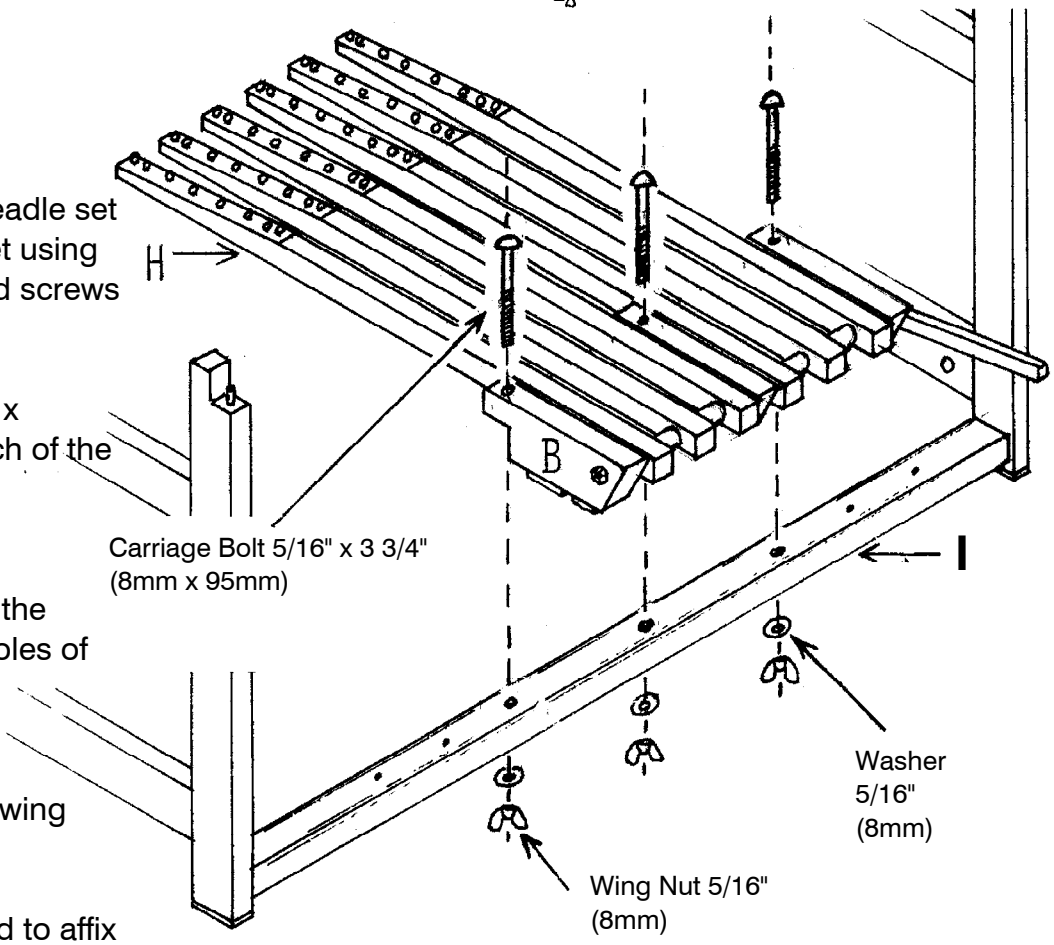
Assemble the treadle set as illustrated.
Affix the 16 3/4" (42.5 cm) treadle set board P under the treadle set using the six 1" (25mm) flat-headed screws No. 8.

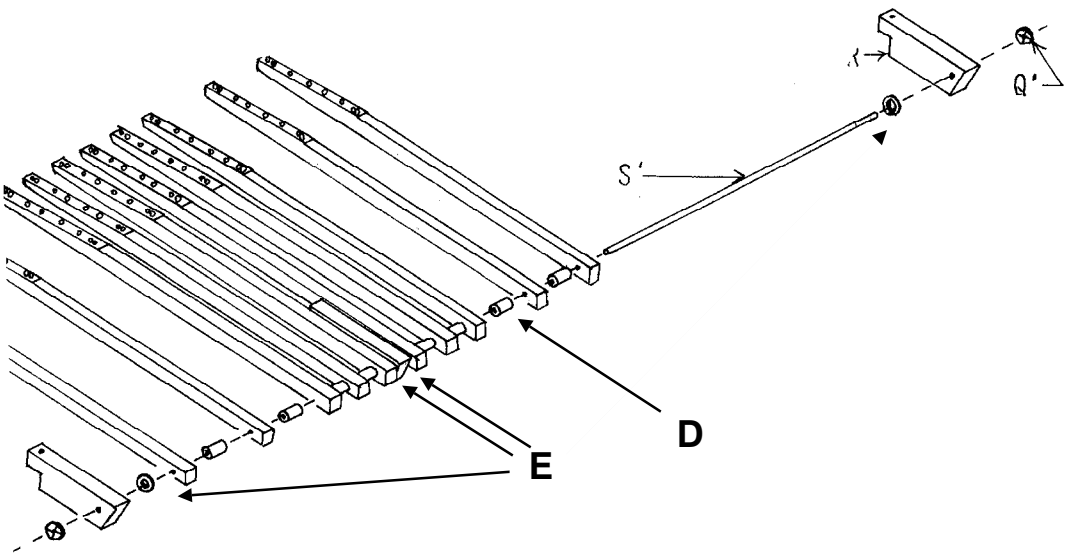
Insert a 5/16" x 3 3/4" (8mm x 95mm) carriage bolt into each of the three treadle set support B.

Install treadle set H on cross-member I by inserting the three bolts into the middle holes of the cross-member.

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

The other four holes are used to affix larger treadle sets when the loom is converted to 8 and 12 shafts.





S': treadle set rod 28 1/4" (8s)
39 1/2" (12s)

R: treadle support

C: treadle

D: Wooden spacer

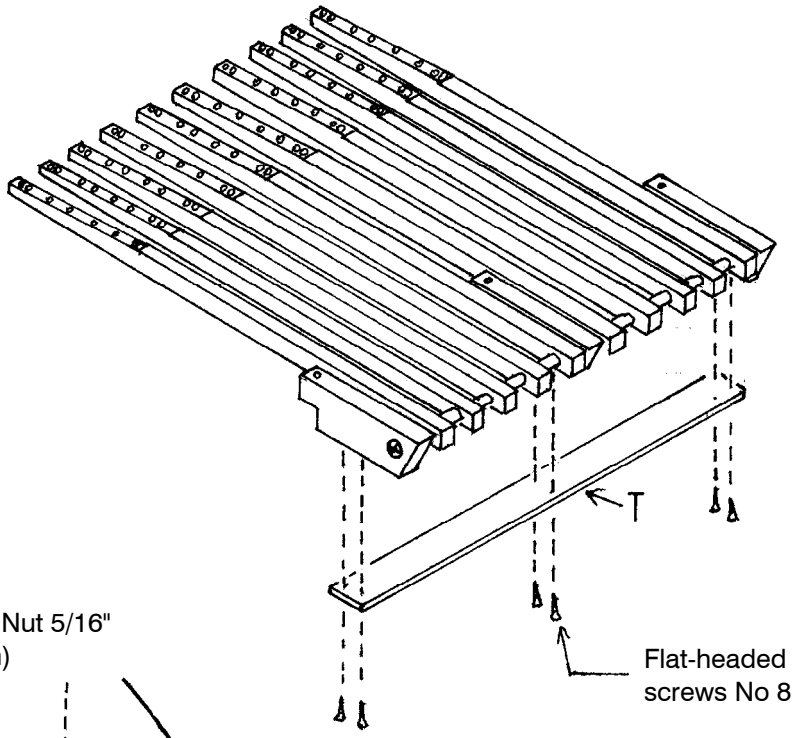
E: 4 steel washer 9/16"

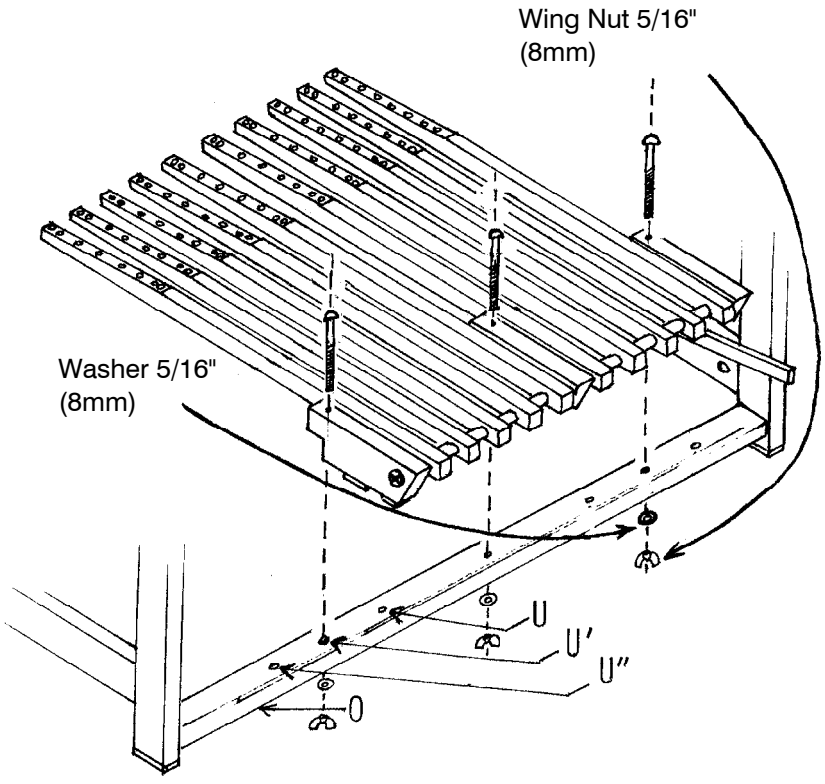
Q': push nut

8 and 12S LOOM TREADLE SET ASSEMBLY:

Assemble the treadle set as illustrated. (put one washer on each side of the middle treadle support as in the 4s drawing). The 8s loom has 10 treadles and the 12s has 14 treadles.

For the 10 treadle set, affix the 27 1/2" (68.5 cm) treadle set board T under the treadle set using the six 1" (25mm) flat-headed screws No. 8. (The 12s loom have a board of 38 6/16")



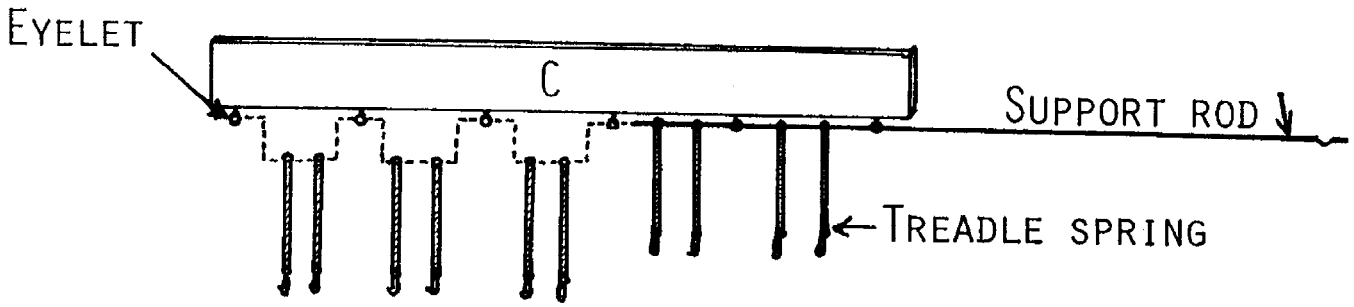


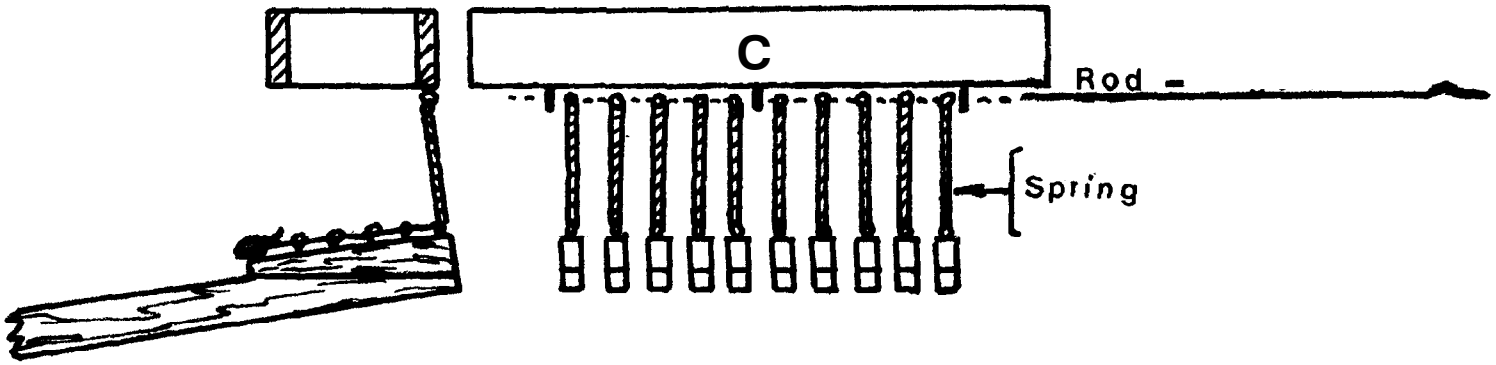
Insert a 5/16" x 3 3/4" (8mm x 95mm) carriage bolt into each of the three treadle set support.

Install treadle set on cross-member by inserting the three bolts into the appopriate holes of the cross-member.

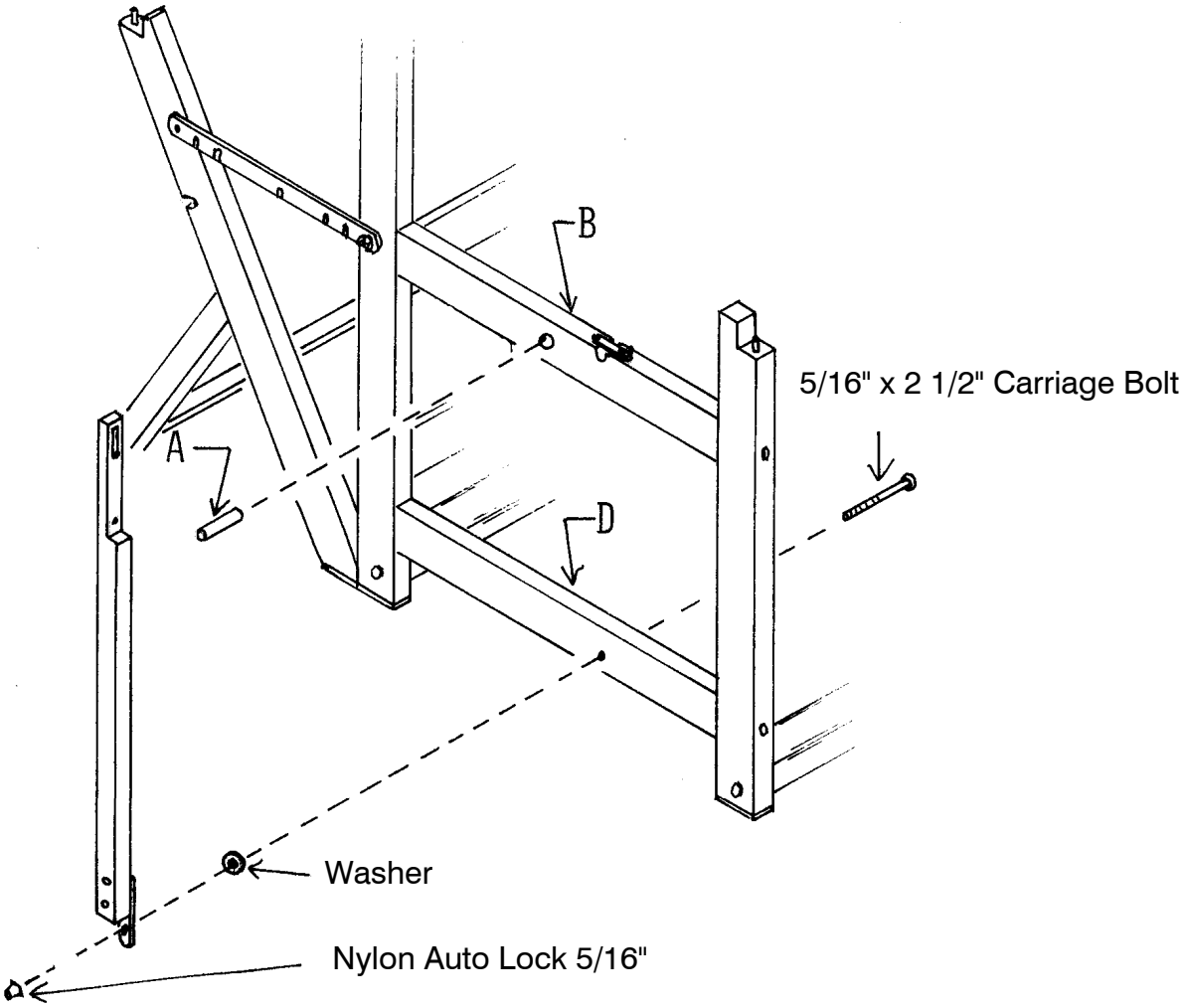
Install a 5/16" (8mm) washer underneath, and tighten the wing nuts.

Holes U = 4s loom treadle set
Holes U' = 8s loom treadle set
Holes U" = 12s loom treadle set



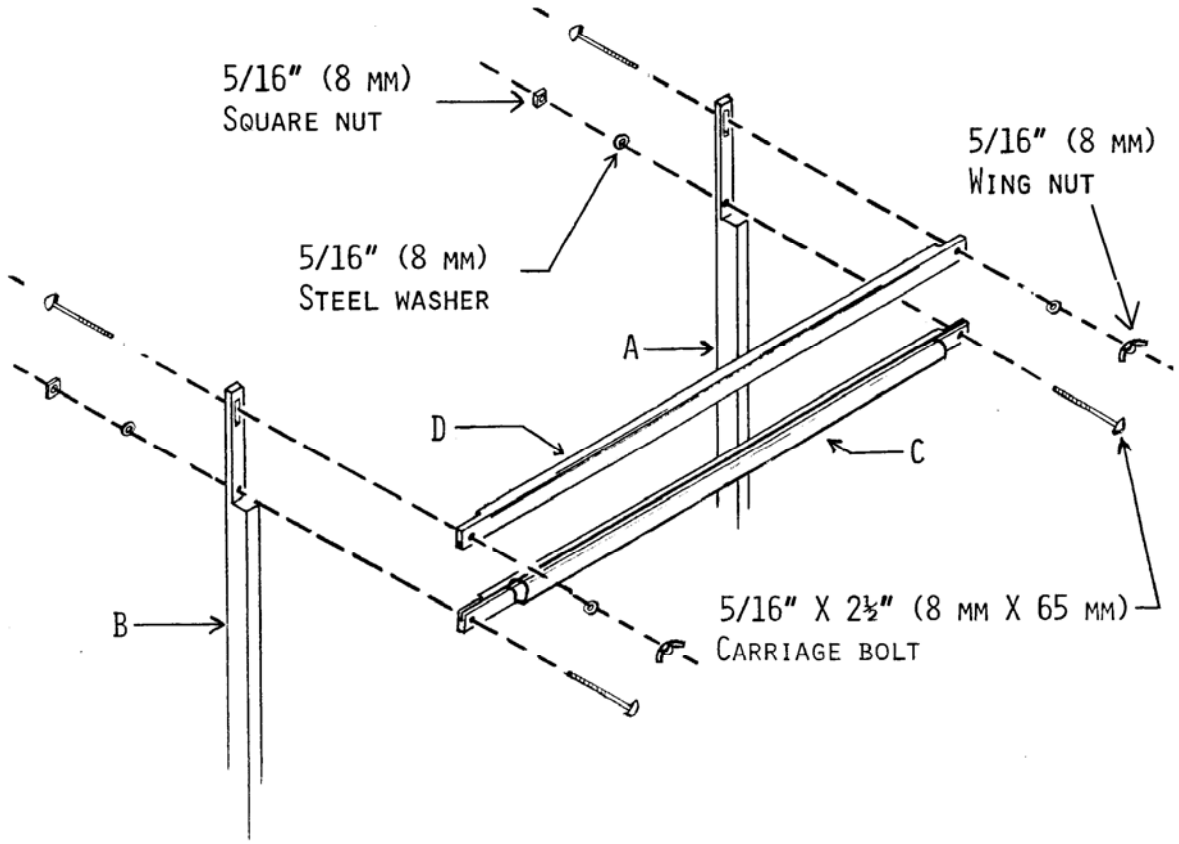


The center back board C have been packed with one rod and treadles springs.
Those springs hold weight of each treadle. It is very important to install them.
Insert the treadle springs to the rod.
Align each springs to each treadle.
Clip the spring to the last eye hook of each treadle.



Insert the two wooden pegs A into the holes of upper lateral cross-member B. These pegs are used as batten stoppers.

Affix batten swords C to lower lateral cross-member D, using two 5/16" x 2 1/2" (8mm x 65mm) carriage bolts, four steel washers, and two 5/16" (8mm) wing nuts. Place a steel washer between the wing nut and the sword and the sword and another one between the sword and the cross-member.

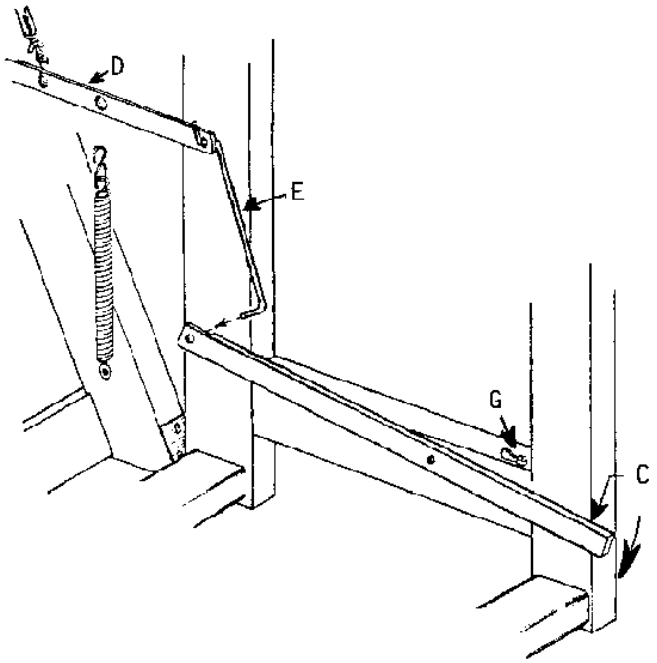


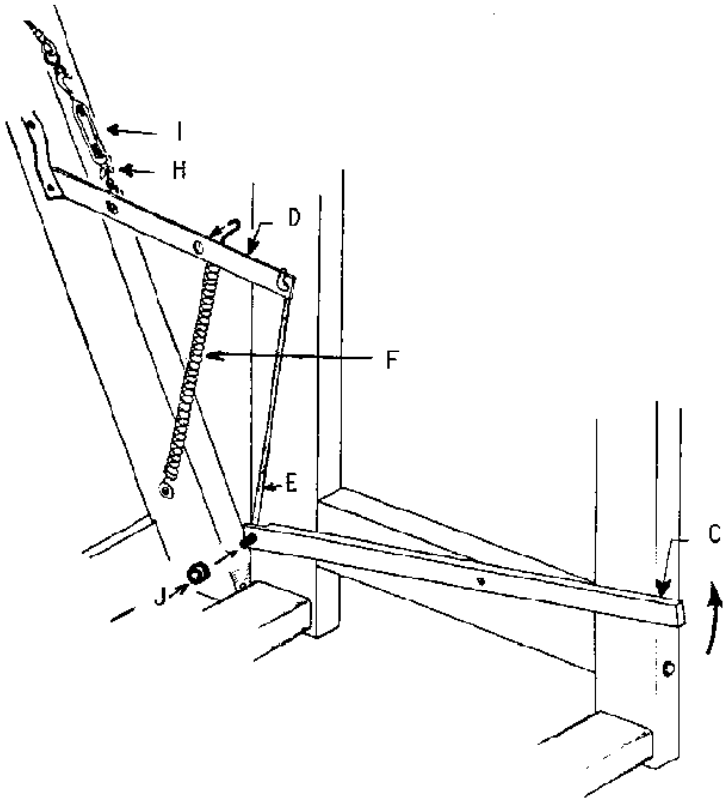
Using 5/16" x 2½" (8 mm x 65 mm) carriage bolts, 5/16" (8 mm) steel washers, and square nuts, affix batten sley C to the lower holes of swords A and B.

NOTE: The batten sley has a shuttle race.

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

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





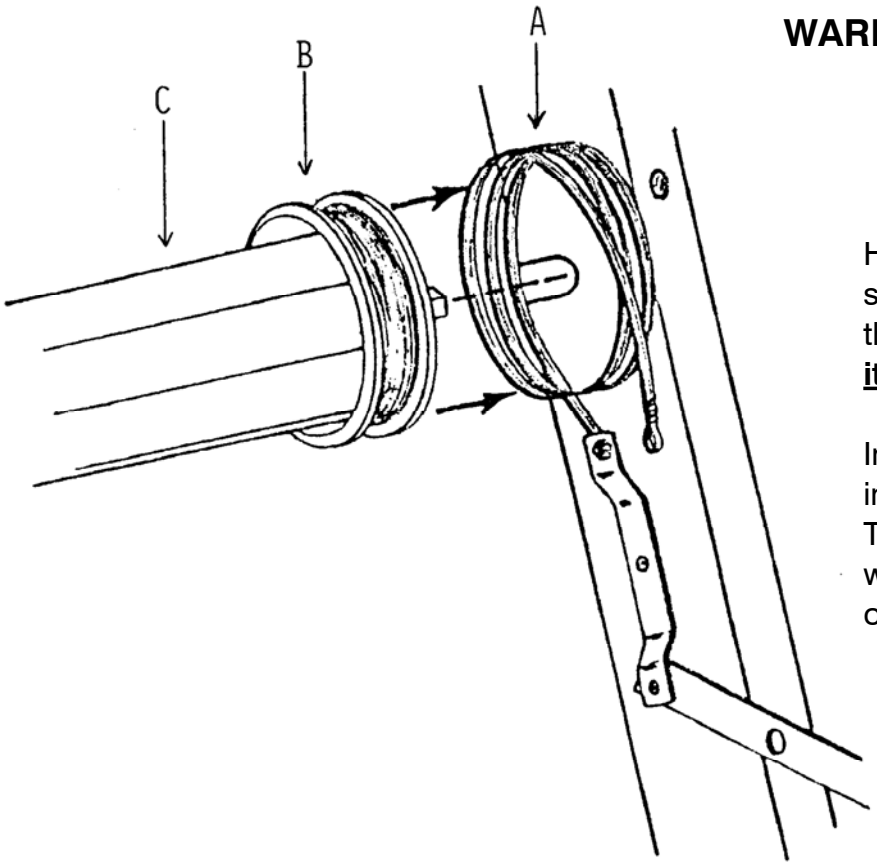
Using metal rod E, join treadle C to lever D. First insert the double-cornered end of the metal rod into lever D; then insert the other end of the metal rod into treadle C while the treadle is depressed.

Raise 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 brake circular 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.

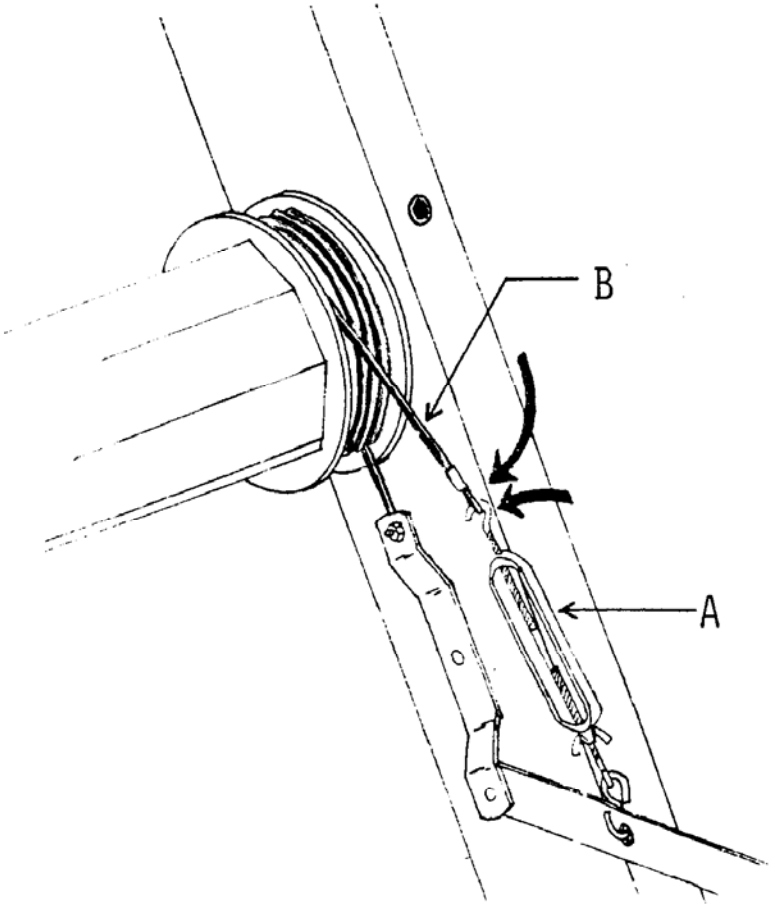
You will add a black rubber ring J to the lower end of the rod E, to prevent the rod from slipping out.

WARP BEAM INSTALLATION



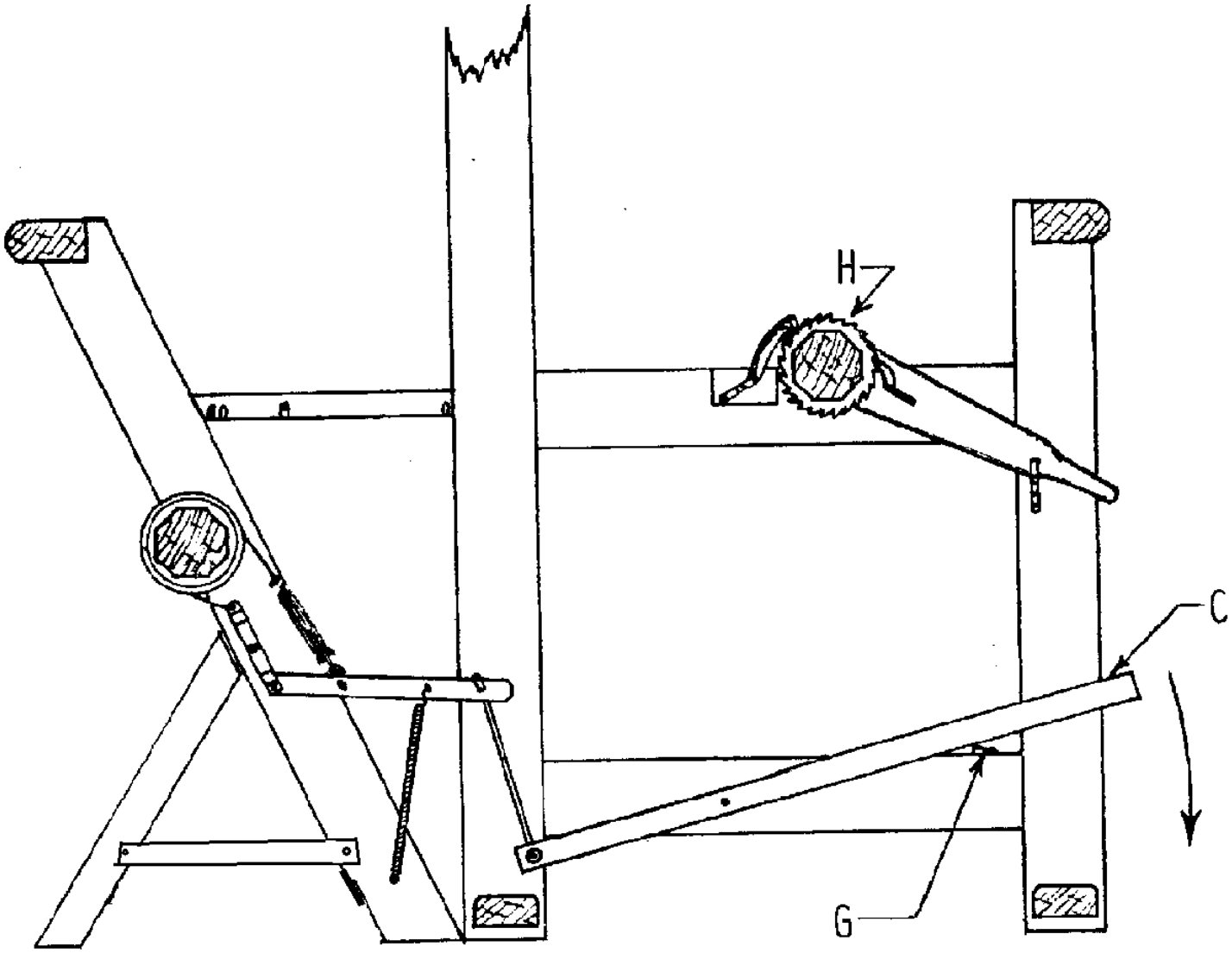
Hold the circular wire brake shoe A slightly to the rear of the loom, **but do not unroll it.**

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.



Hook turnbuckle A to flat wire circle B.

Adjustment instructions will be given later.



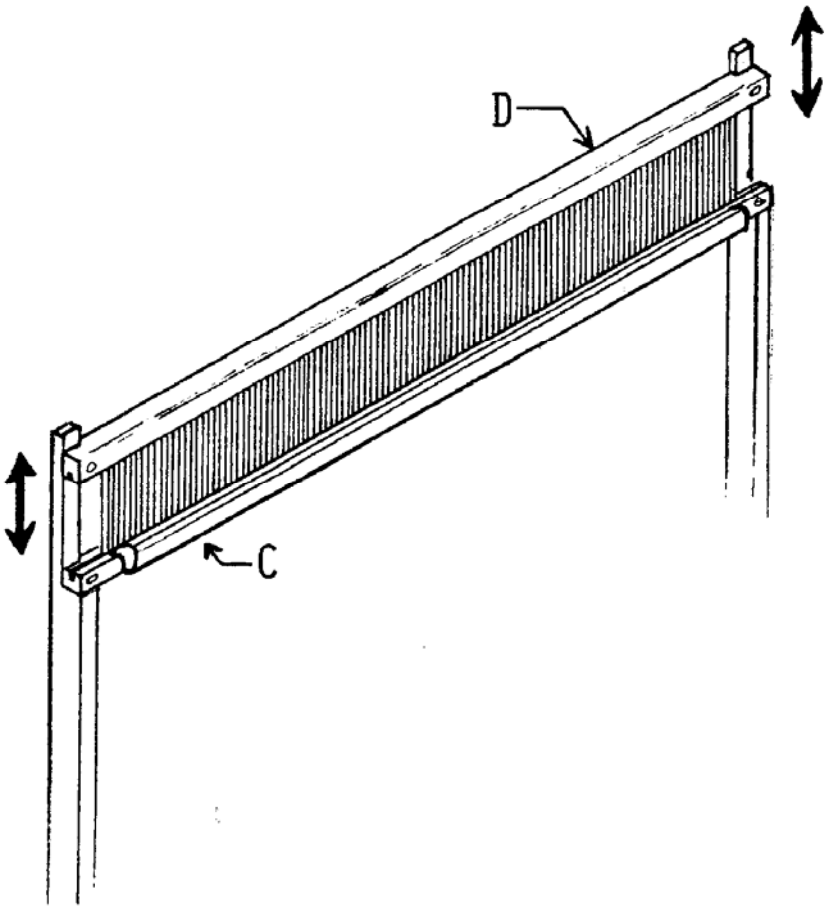
FOLDING LOOM AND BEAMING:
Release the brake by depressing treadle C and by locking it down with catch G. Release the 4 metal hooks and fold the back of the loom.

WEAVING:

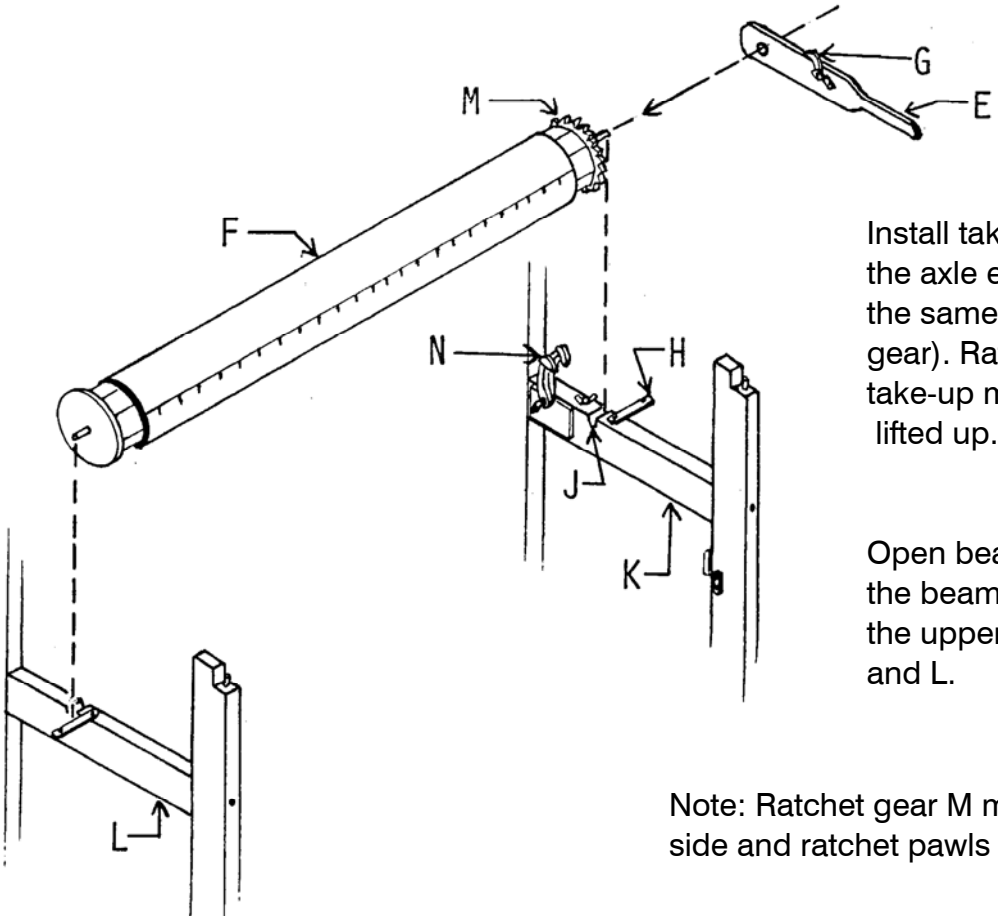
To advance the warp, depress brake treadle C and turn cloth beam H at the same time. Then release brake treadle C and advance the cloth beam until the next notch in the ratchet gear is reached. If this is too much tension, gently depress the brake treadle until the desired tension is obtained.

MORE INFORMATION:

See "WARP AND WEAVE", page 87.



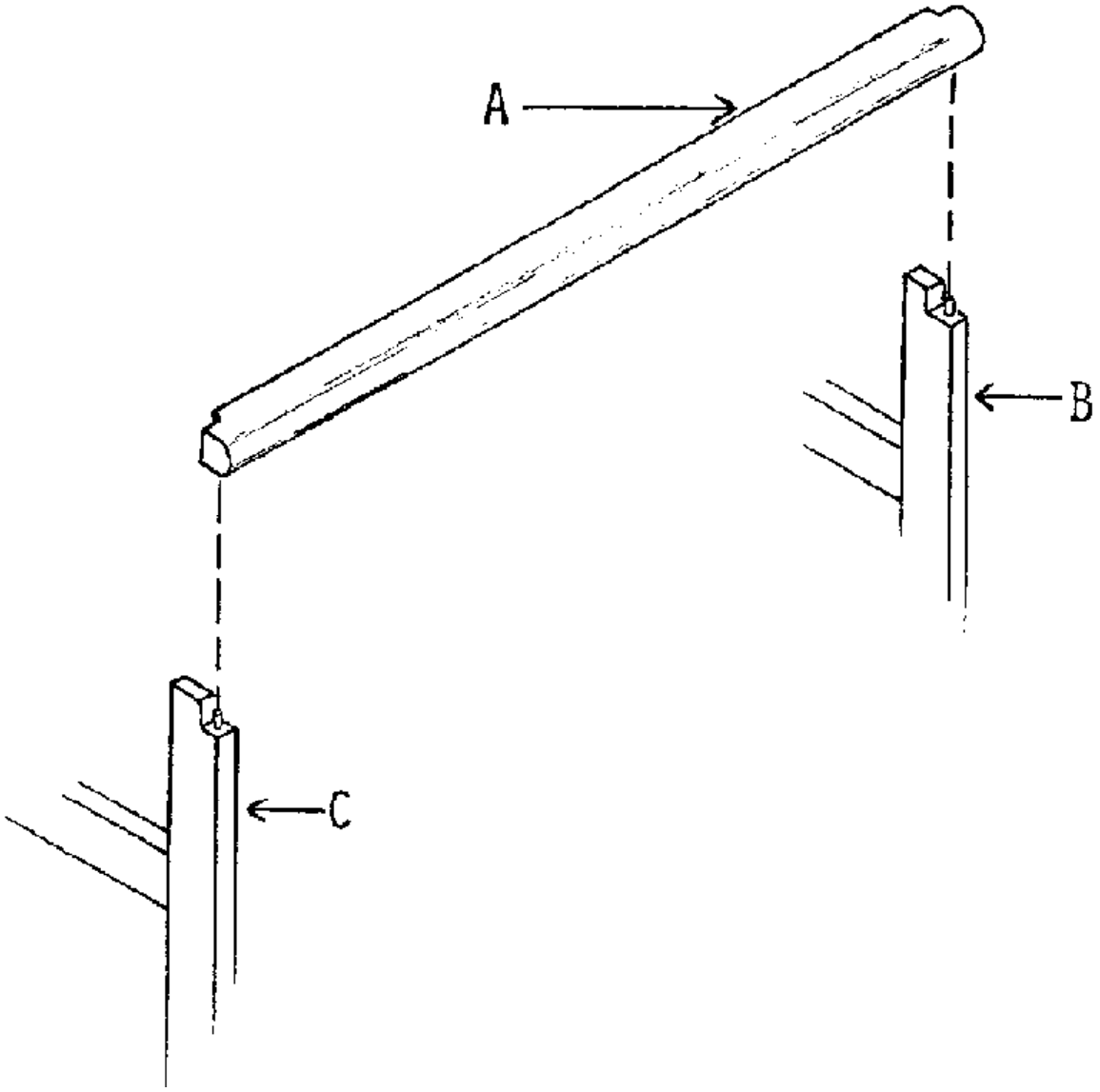
Place the reed between batten sley C and handtree D.
When the wing nuts are loose, the batten handtree can slide vertically in the sword slots. The reed must then be secured between the batten sley and handtree by tightening the wing nuts.
If the batten does not touch the two bumpers equally, loosen the bolts of the batten sley and handtree and exert pressure on the batten centering it in its proper place. Tighten the bolts again.



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.



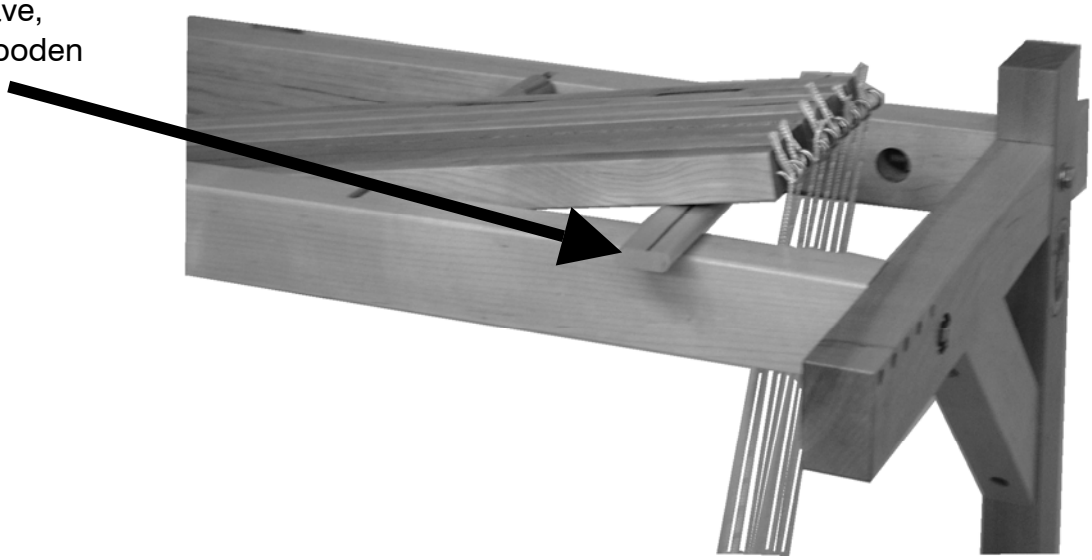
Affix one of the breast beams A on the top of the front posts B and C.

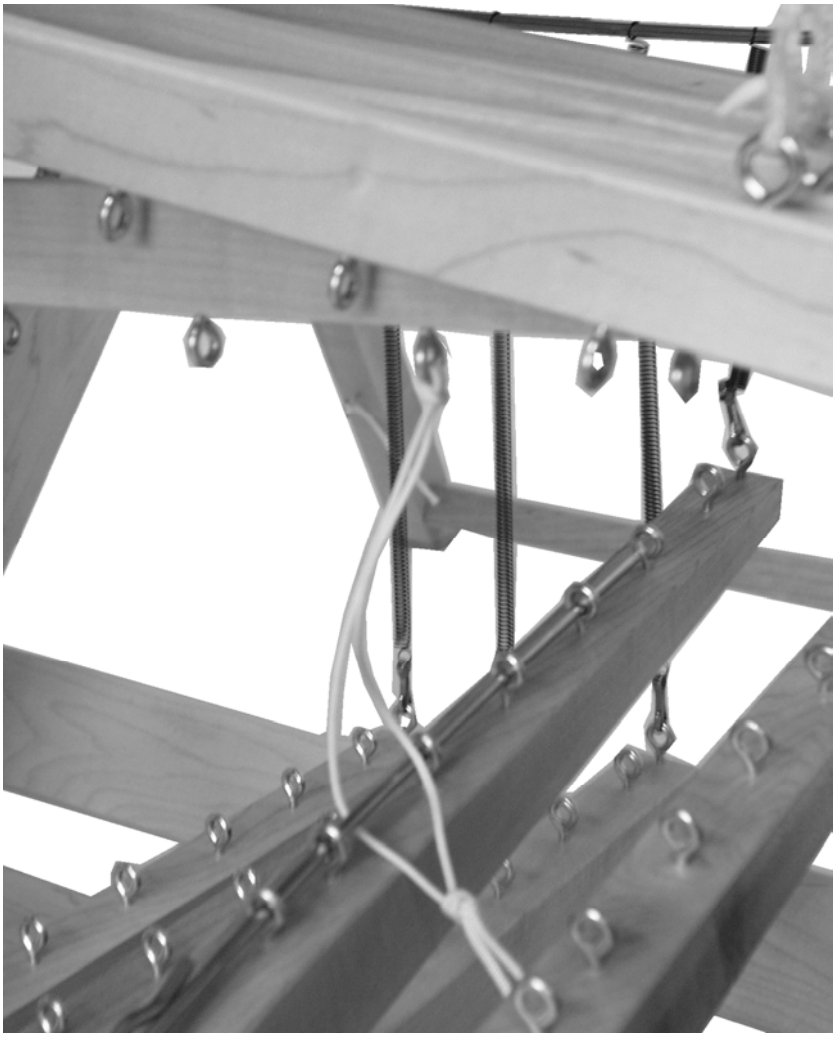
Affix the other breast beam on top of the back posts.

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.

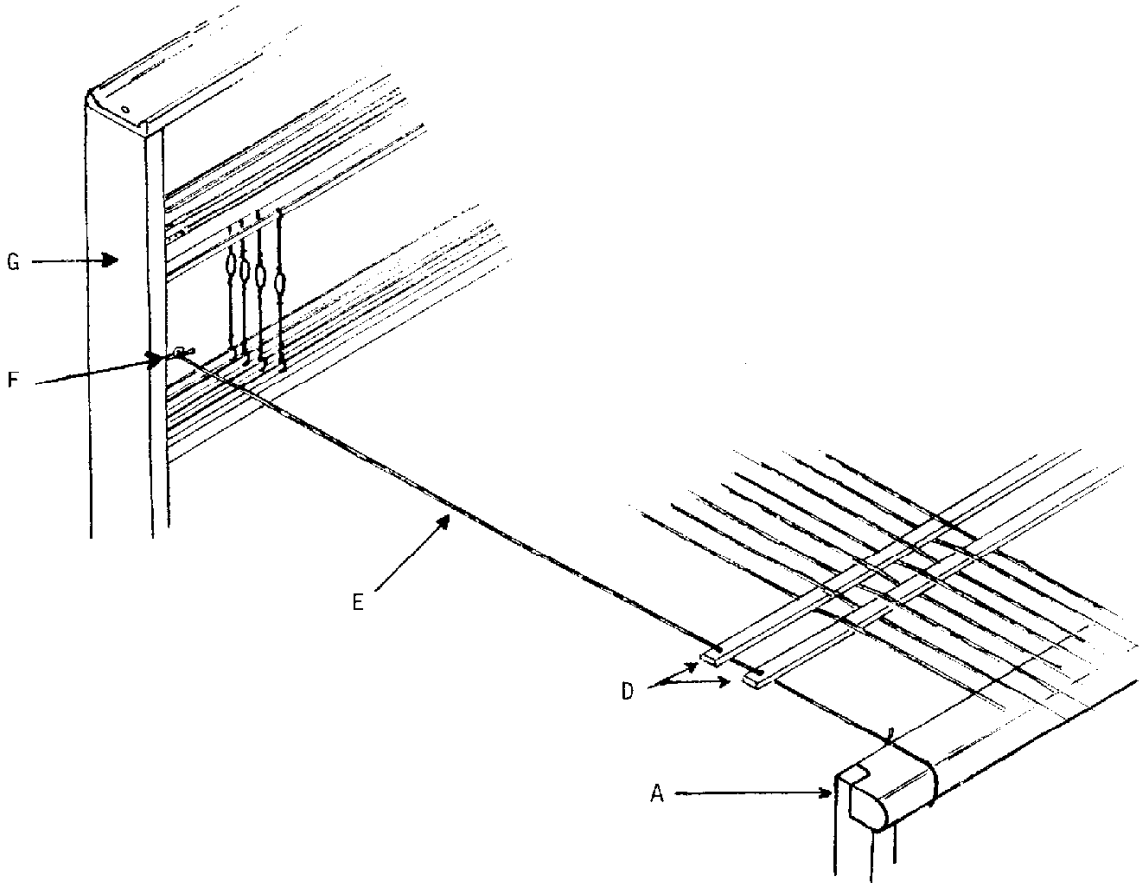
FIRST TREADLE TIE-UP

When you are ready to weave, remove the Unvarnished wooden bars (with black stripe)





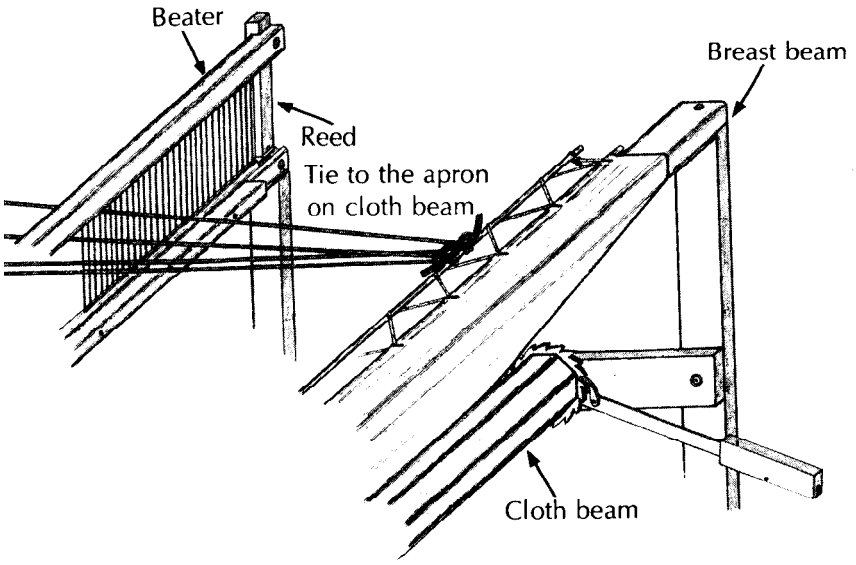
See Tie-Up in the Warp & Weave book Page 13



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

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.

For more information see 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.

HAPPY WEAVING