

3 Steps Stool-chair Kit



KCEC06E

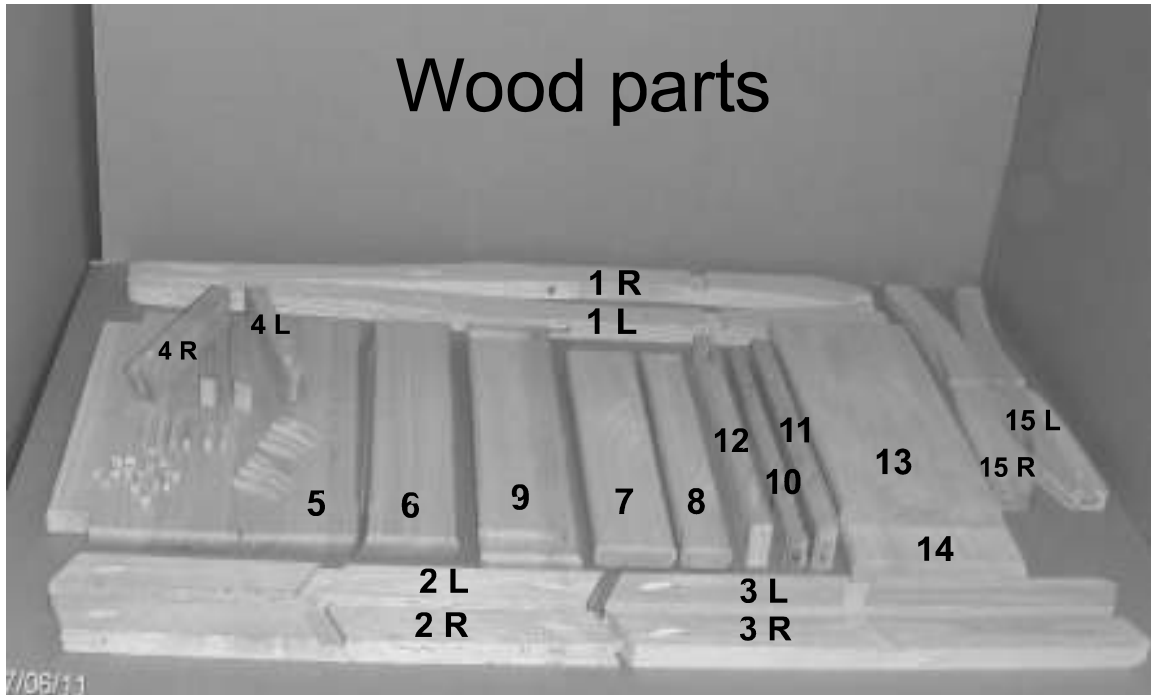
Boutique du Bois de Beauce
1638 Victor St-Come-Liniere
Québec, Canada G0M 1J0
Tel. : (418) 685-2707
www.woodcollectortoys.com



Finish product pictures

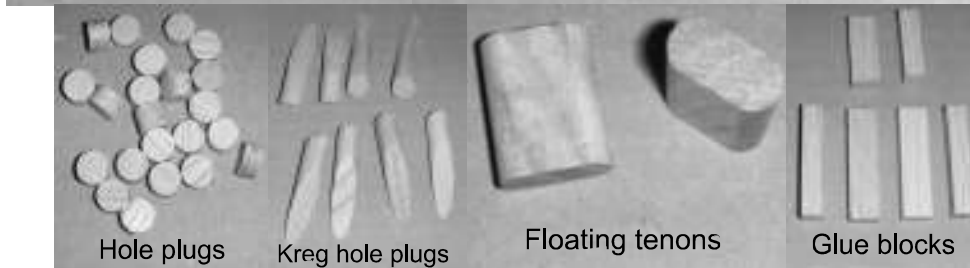
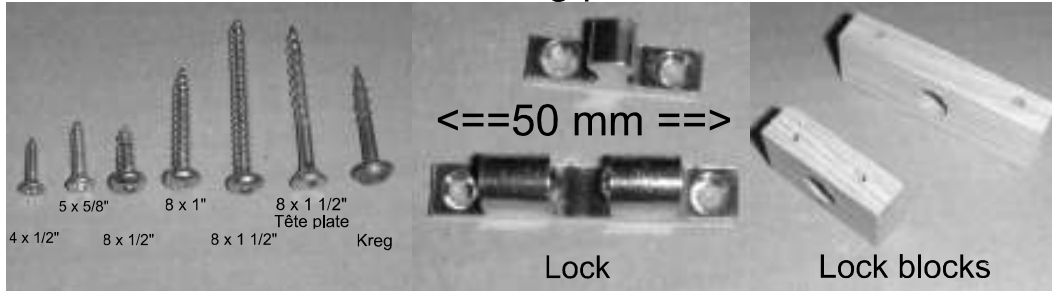


Parts pictures



Wood parts

Fastening parts



Hinge

Parts list

Wood parts :

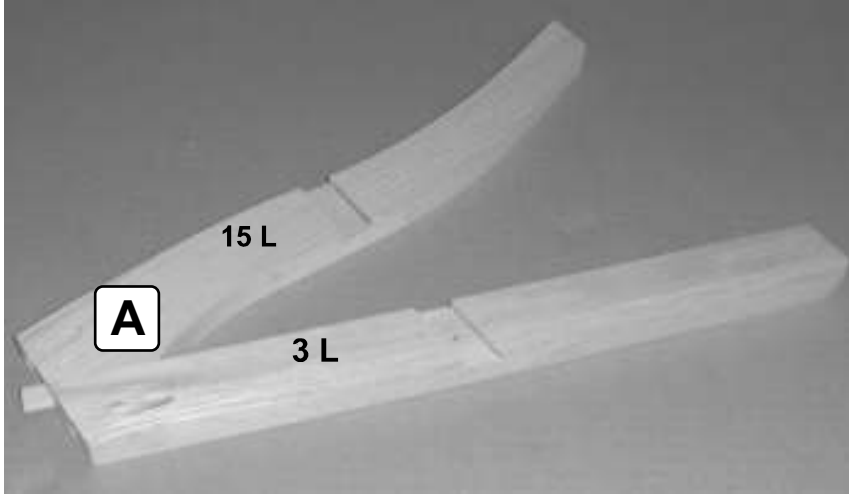
Quantity	Number	Description	Dimensions
2	1	L&R Long legs	3/4" x 33 1/4"
2	2	L&R Inner lower legs	3/4" x 18" x 1 1/2"
2	3	L&R Upper lower legs	3/4" x 18 1/4" x 1 1/2"
2	4	L&R Seat Supports	3/4" x 1 1/2" x 7 3/4"
1	5	Seat large part	3/4" x 10 1/2" x 14 1/2"
1	6	Seat small part	3/4" x 3 1/2" x 14 1/2"
1	7	Back large	3/4" x 2 7/8" x 13 1/4"
1	8	Back small	3/4" x 1 7/8" x 13 1/4"
1	9	Stool head	3/4" x 3 1/2" x 15 1/4"
1	10	Head support block with tenons	3/4" x 1" x 12 3/4"
1	11	Rear seat support block	3/4" x 1 1/2" x 12 3/4"
2	12	Front seat support block with tenons	3/4" x 1 1/2" x 12 1/2"
1	13	Lower step	3/4" x 6 3/8" x 12 7/8"
1	14	Upper step	3/4" x 6 5/8" x 12 7/8"
2	15	L&R Short legs	3/4" x 15 15/16"

Fastening parts :

Quantity	Description	Dimensions
1	Hinge	1 1/4" x 10 3/4" copper plated
22	Holes plugs	3/8"
10	Hinge screws	# 5 x 5/8" copper plated
2	Lock blocks screws	# 8 x 1/2"
6	Angle legs lock screws	# 8 x 1 1/2"
2	Large back screws	# 8 x 1/2"
8	Seat and head supports screws	# 8 x 1"
1	Small lock block	3/8" x 3/4" x 1 3/8"
1	Long lock block	3/8" x 3/4" x 2 1/4"
2	Short gluing blocks	1/4" x 3/8" x 1"
4	Long gluing blocks	1/4" x 3/8" x 1 1/2"
1	Lock 50 mm x 5 mm	Copper plated
4	Lock holding screws	# 4 x 1/2" copper plated
10	Steps and rear support screws	# 8 x 1 1/2" flat head
12	Angle lock screws	Kreg
2	Floating tenons	3/8" x 3/4" x 1"
8	Kreg hole plusg	3/8" diam.

Notes :

- Locate parts, know them and read and follow all instructions before starting
- Pre drill holes to prevent wood splitting
- Pre drill hole for Kreg screws also, do not overtight these
- Sanding is done with 80 and 100 grit paper, finish sanding should be done with 120, 160 or finer grit before applying finish
- Wood corners should be rounded either with a router bit or with sanding paper
- Some parts are easier to sand before assembly, like backs and steps and inner legs
- Regular wood glue is use
- Clamps are needed for holding parts while glue dries
- When you pre-drill holes, be carefull not to go through the pieces you are pre-drilling
- It is recommended to dry fit all parts before gluing

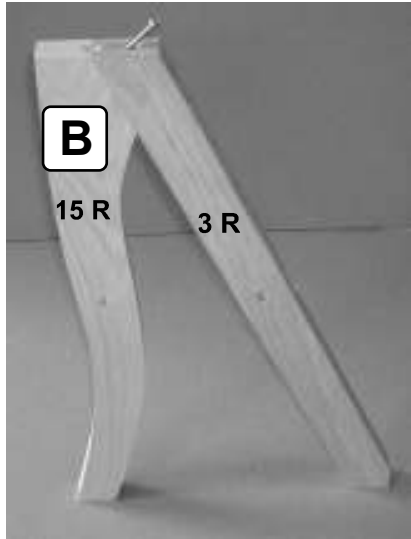


Assemble base parts #15 et #03 as shown with slots on the same side.

A

Insert a 1 1/2" glue block with glue in the slot at the end of the 2 parts assembly. Push that block inside the slot all the way, make sure the ends are square, and then the 2 slots for the step should align, a

3/4" scrap wood piece can be use to check.



B

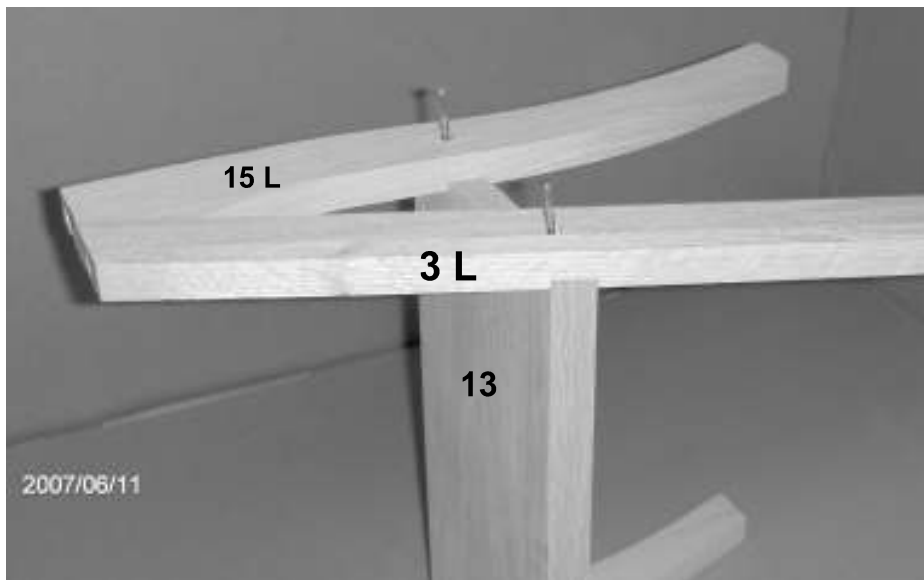
Pre-drill a hole with a 1/8" max. for the #8 by 1 1/2" long screw in the upper part of the assembly. Insert the screw and tight it well but not to hard.

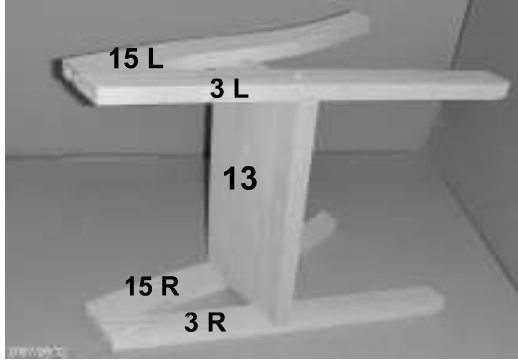
Repeat the same procedure for the other side.

Sand both sides of the joints to make them flush.

Insert step #13 in the slot, put the bevelled side flush with the front of the leg. Pre-drill holes in the end of the step with a 1/8" diam. drill bit to insert the #8 by 1 1/2" flat head screws. Do not glue the step at this time, you will need to move it in

further operation. The steps are the last parts to be glued in the assembly.





When assembly is done on both sides, you can now install the small seat piece on the top.

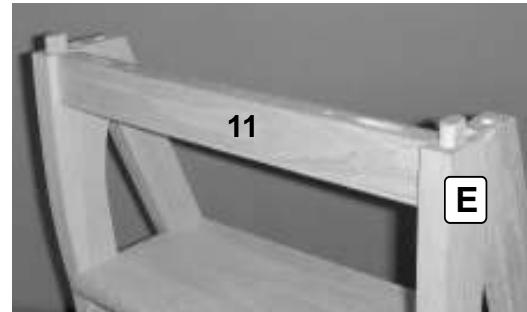
C Place and glue the support block #11 with 1/8" tenons in the slots inside of legs. Place it flush to the top of the legs. Do not put screws now.

E Insert and glue the floating tenons in the holes on the top of the legs. Pre-drill the holes with a 3/32" drill bit for 2 Kreg screws that will hold the block and legs assembly together. Insert and tighten the Kreg screws.

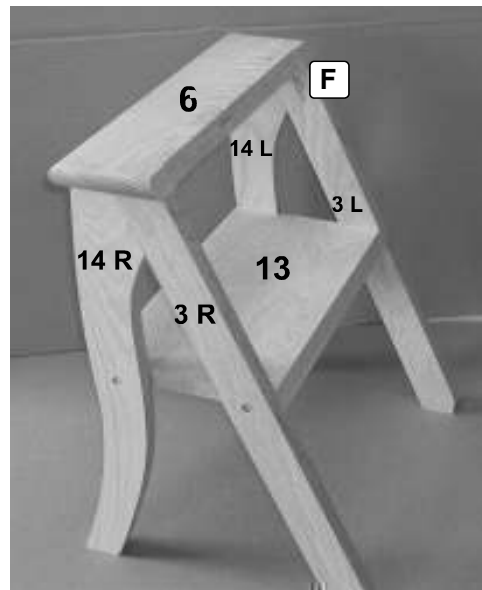


Place and glue the small seat part #06 on top of the leg assembly aligning the floating tenons in the slot under the small seat part and align the beveled side with the angled front of the leg assembly as shown in step F. Make sure everything is square, use clamps to hold together.

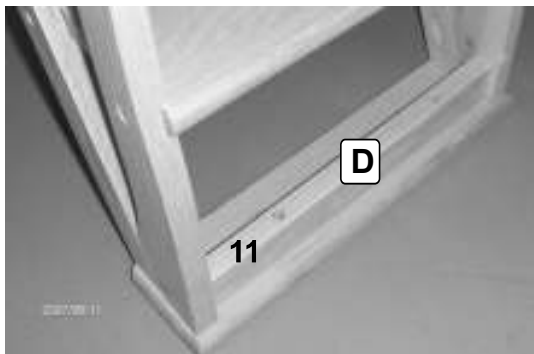
D Pre drill holes with a 1/8" drill bit to insert screws #8 by 1" long that will hold the seat part to the support, take care not to drill the holes to deep so they will get through. You will have to move the step #13 to be able to drill and tighten the screws.

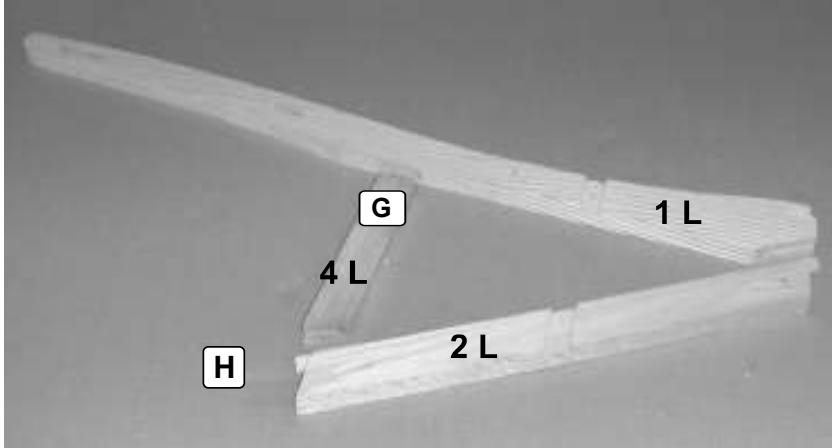


F Pre drill 3/32" holes for the Kreg screws in the upper part of the inside legs. Move step #13 to be able to tighten screws. After, you can glue step #13 in place.



The assembly is now done.





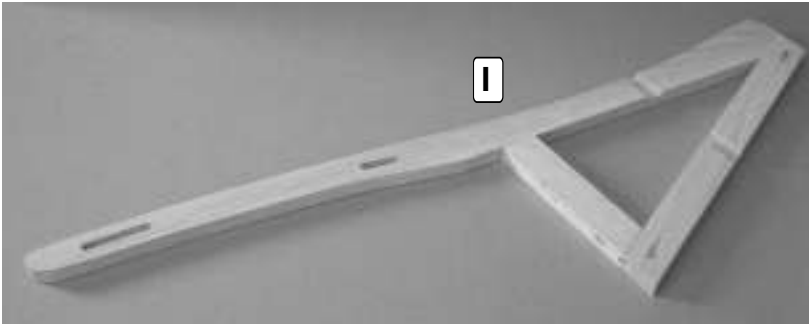
Get pieces #01 , #04 and #02 for the rear leg together as shown.

Note that all the slots for the step, seat backs and screw holes are on the same side of the assembly.

G Seat supports are different, there is a left and a right side. The difference is that the

hole to get the screw to the seat is at an outside angle to give place for the screw driver.

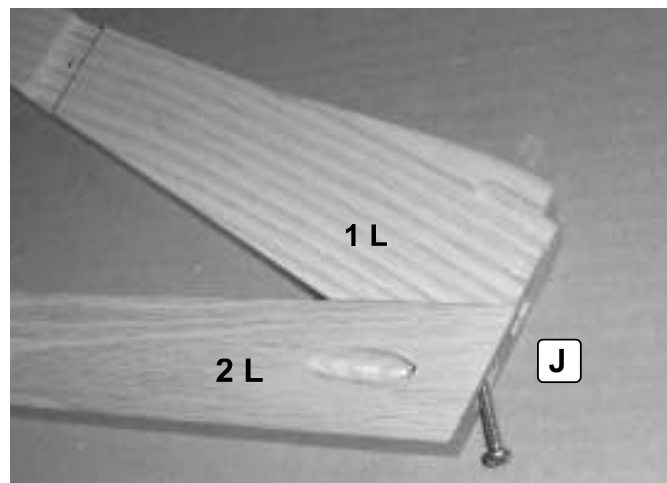
H First you have to get parts #04 and #02 assembled, put a 1" glue block in the slot between parts #04 and #02, then align the parts and pre drill the 1/8" hole to put the #8 x 1 1/2" angle screw to hold them together.

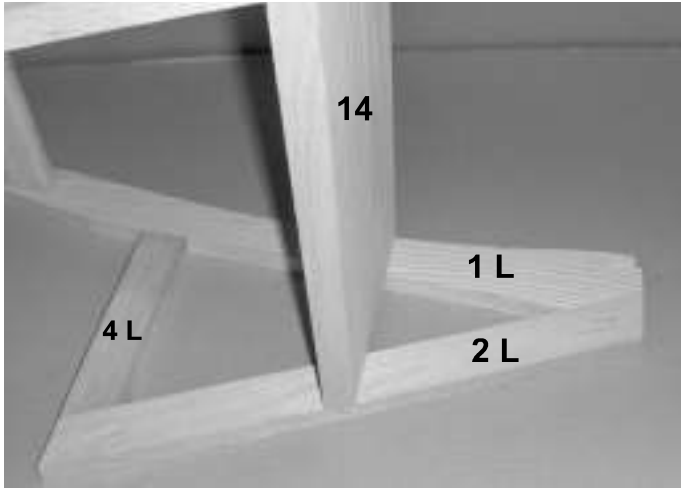


I Then, insert the tenon on the end of part 4 in the slot in part #01 with glue, pre drill the hole with 1/8" drill bit, use a #8 x 1 1/2" flat head screw to hold parts #04 and #01 together. Do not overtight to break screw loose.

J Insert a 1 1/2" glue block in the slot between part 1 and 2 . Align parts, pre drill the hole 1/8" for the angle screw #8 x 1 1/2" to get part #02 and #01 together.

Do the same for the other side, then when dry, sand the joints flush on both sides of the assemblies.



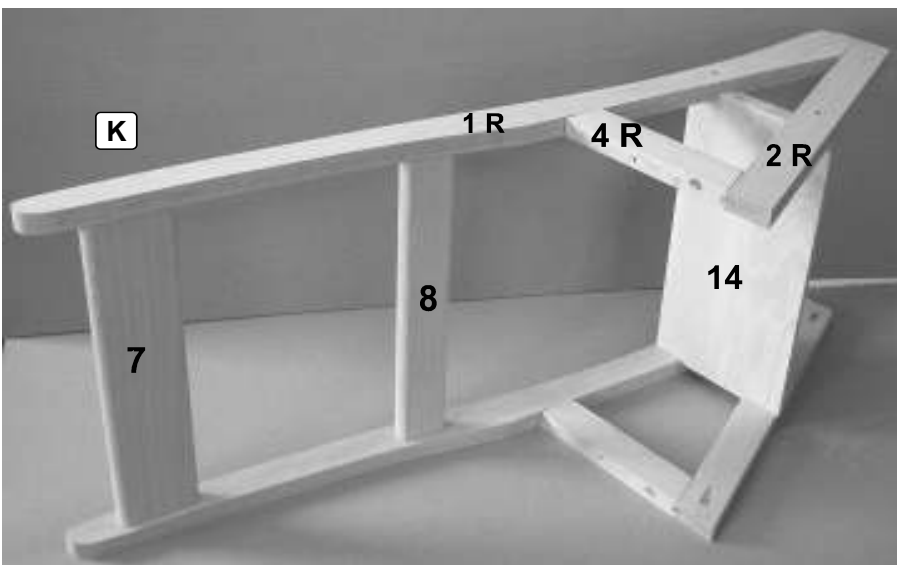
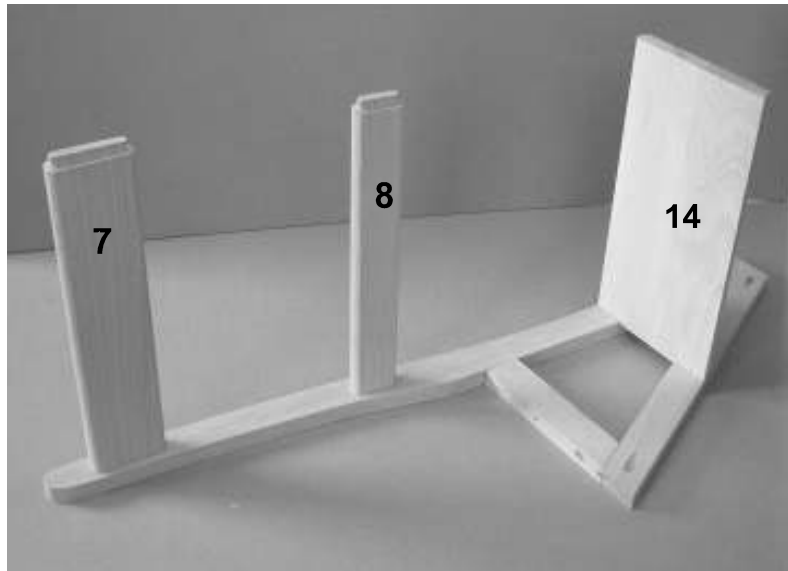


Insert step #14 in the slot with the bevelled side flush with the front of the assembly on part 2.

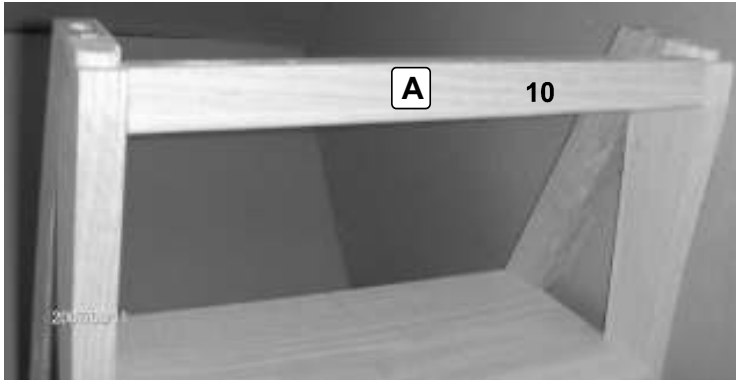
Do not glue the step #14 here, you will need to move it to put screws in later operations.

Insert and glue parts #07 large back and #08 small back in their slots in the assembly.

Then, insert the other side assembly, putting glue on the 2 backs slots only, do not glue the step at this stage.

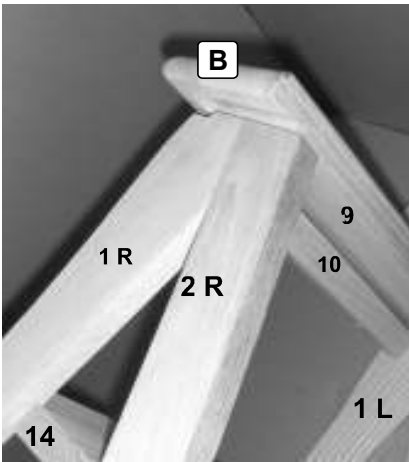


K Use clamps to hold in place, be sure it is square, then pre-drill holes with 1/8" drill bit to lock the large back. Take care not to go through on the other side with the drill bit and use #8 x 1/2" screws to lock part #07 in place.

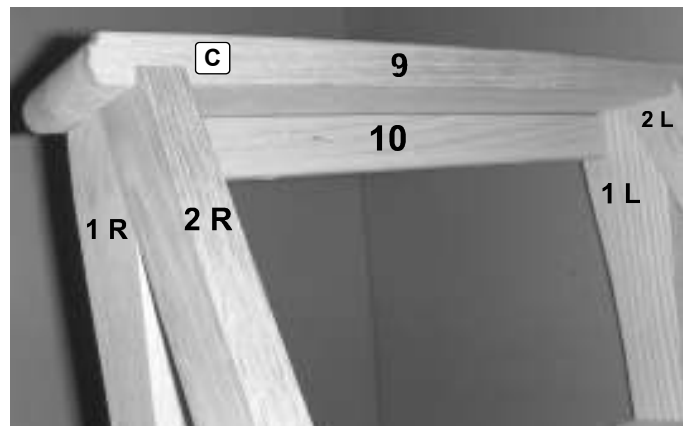


A Insert and glue part #10 in the 1/8" slots on top and inside of the long legs assembly, flush with the lower top of the legs assembly. Hold in place with clamp.

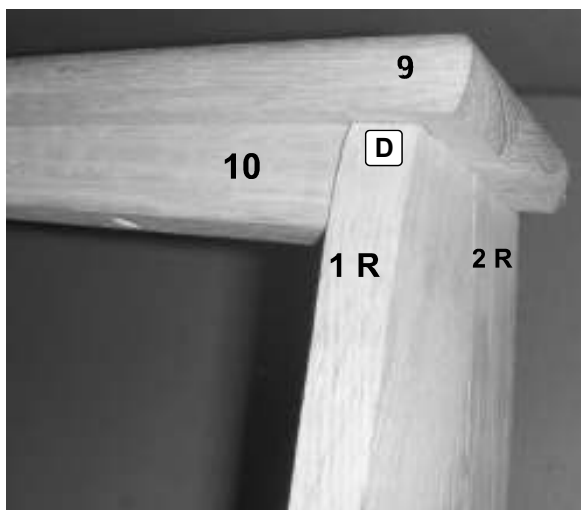
Pre-drill 3/32" holes in slotted holes on the ends of part #10 . Use Kreg screws to lock in place.



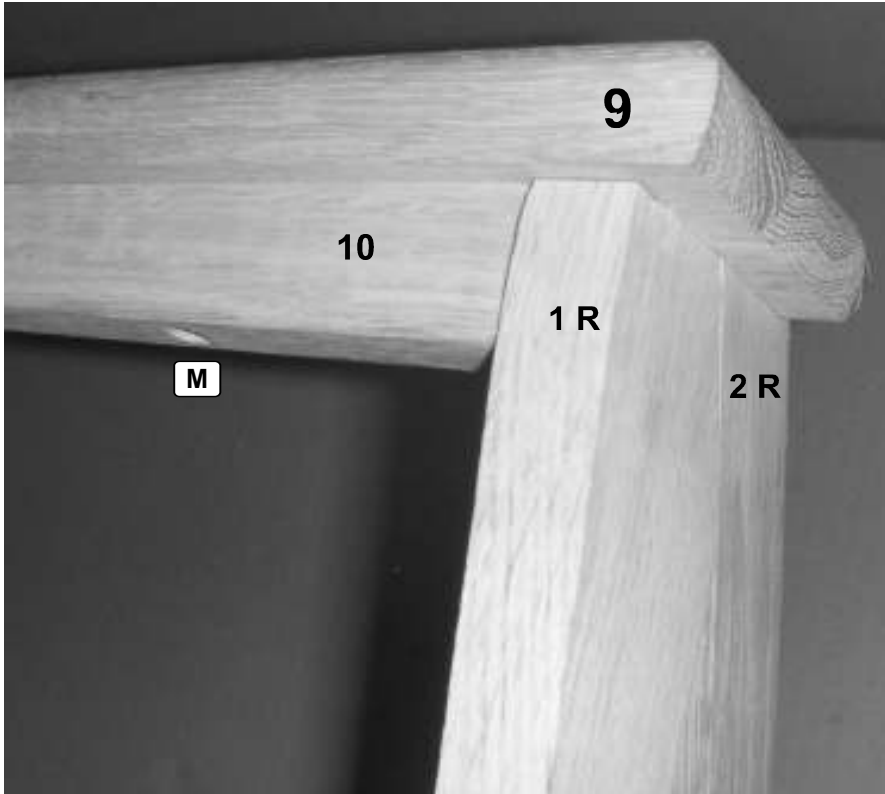
B Place and glue the part #09 head, on top of assembly with the tops of assembly in the slots under the head.



C Place the square side flush with parts #02 of the long legs assemblies.

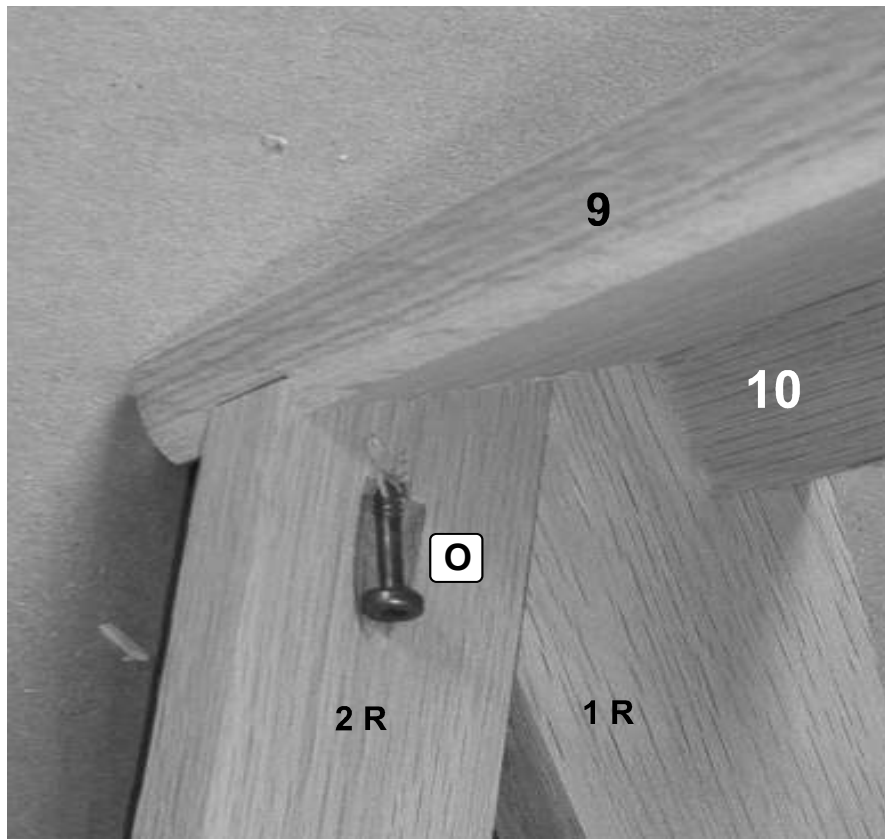


D Push down the head so that the fit is perfect with the legs assembly.



M For this operation you will have to move the step #14.

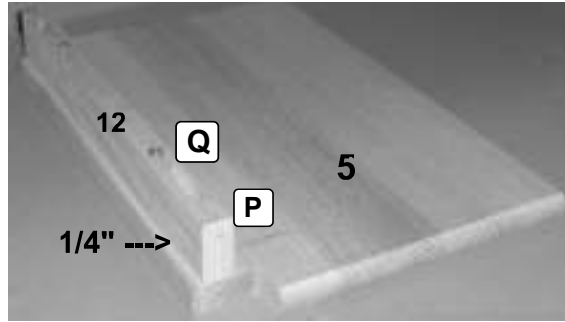
Pre-drill 1/8" hole in part #10 to lock long legs assembly to the head with #8 x 1" screws. Take care not to go through the head with the drill bit.



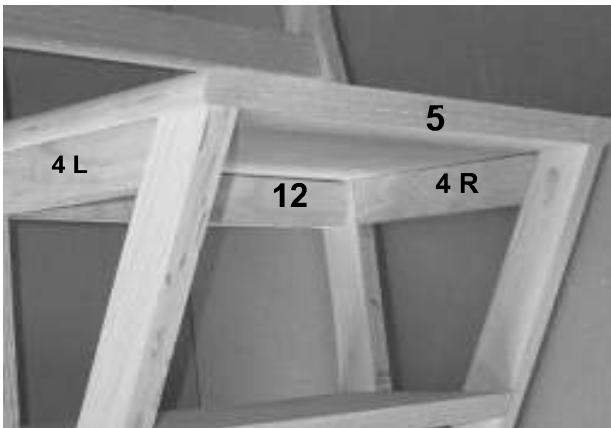
O Pre-drill a 3/32" holes, use Kreg screws to lock legs assembly to the head.

All parts should be glued except the step #14.

P Install and glue part 12 under the seat to the rear at 1/4" from the back side.

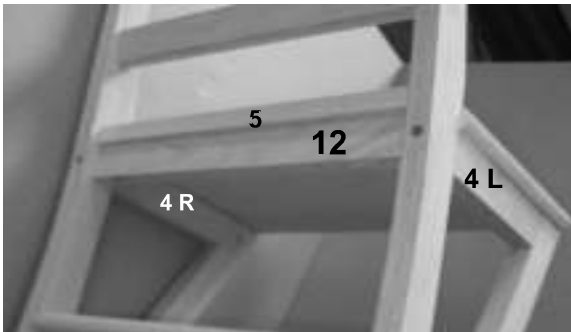


Q Pre-drill holes with 1/8" drill bit and use #8 x 1" screws to hold #12 to #05.

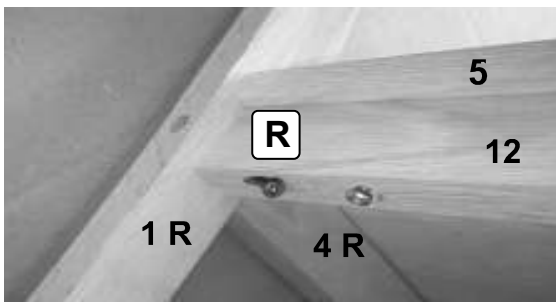


Install and glue the seat assembly with support on the top of side supports #04 with the front flush to the long leg assembly. Do not put glue all the way on part #04 , only close to the screws, to prevent the wood from cracking with humidity. Make sure that the long legs assembly are square with part #12 . The width of the assembly should be the same as the width of the base assembly and that the seat parts are flush.

R Pre-drill holes with 3/32" drill bit in #12 to lock this part to the legs assemblies on each side. Use Kreg screws to do this.

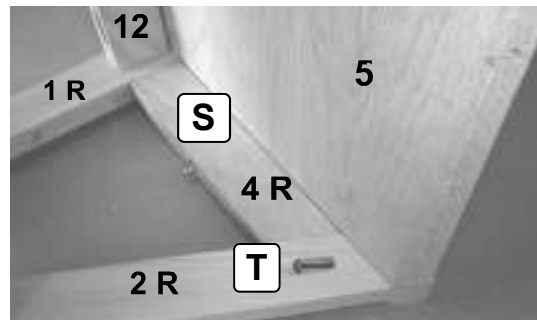


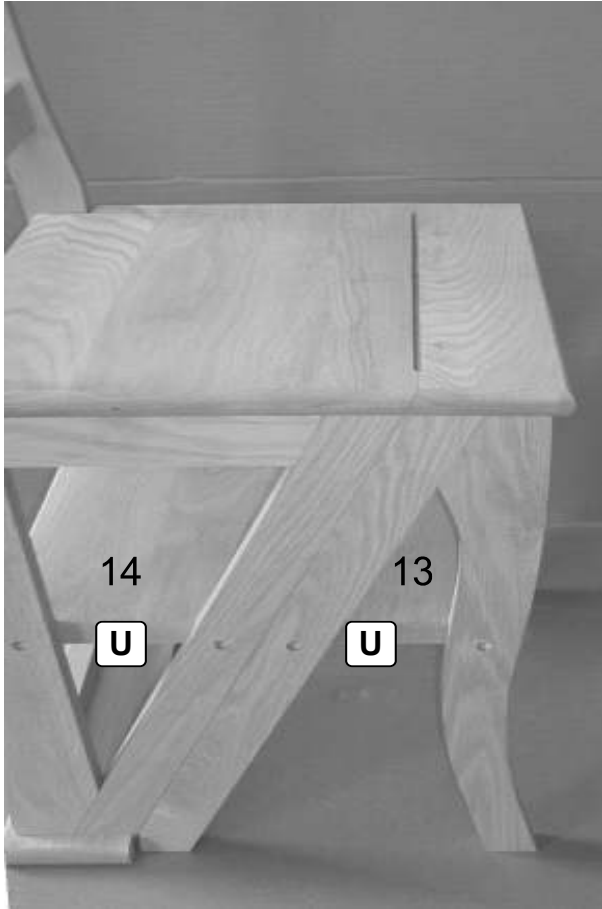
S Pre-drill 1/8" holes under the side



supports to hold them to the seat assembly with #8 x 1" screws, if the side supports were correctly assembled before, you will be able to do this from the outside of the long leg assemblies.

T Pre-drill 3/32" holes to lock the front of the long legs assembly to the seat assembly with Kreg screws.





Here is what your chair should look like now. Check alignment to be sure everything fits.

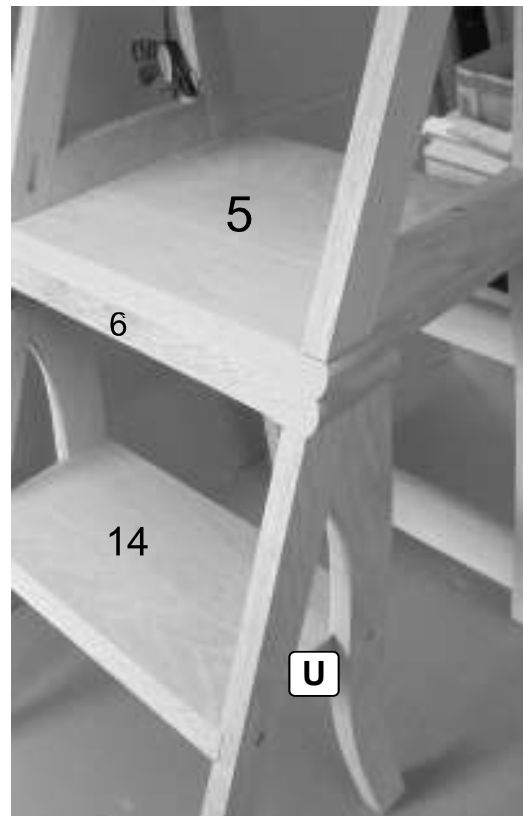
For the stool, turn it around the base and check alignment.

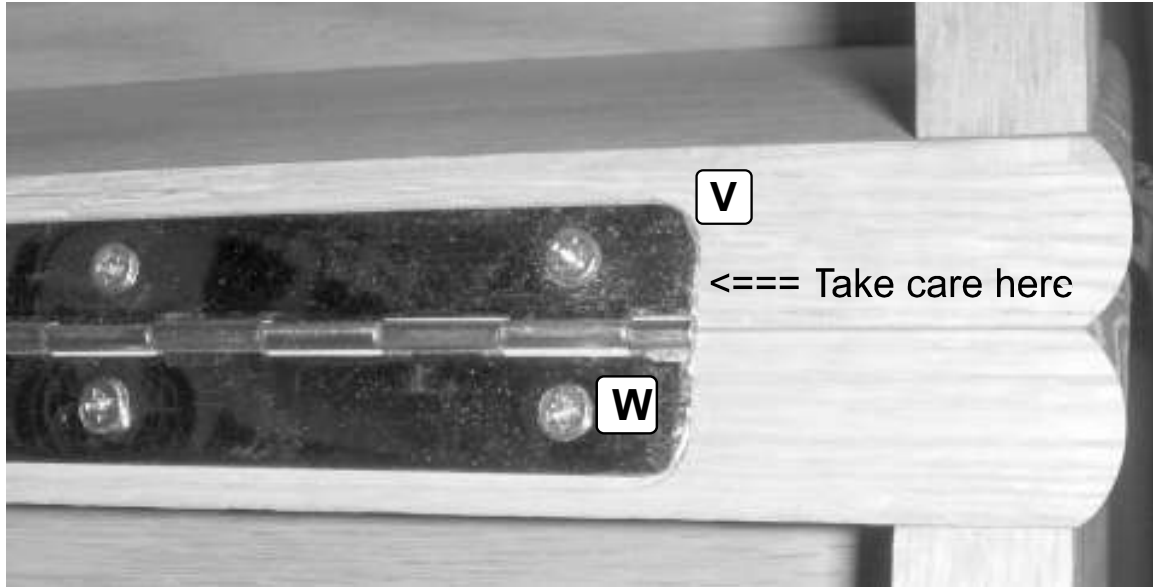
You can now glue step #14 to the long leg assemblies. Pre-drill holes with 1/8" drill to insert the four #8 x 1 1/2" flat head screws.

U You can now hide all screw holes with wood plugs and the slotted Kreg holes with special Kreg plugs.



When dry, cut and or sand flush these plugs.





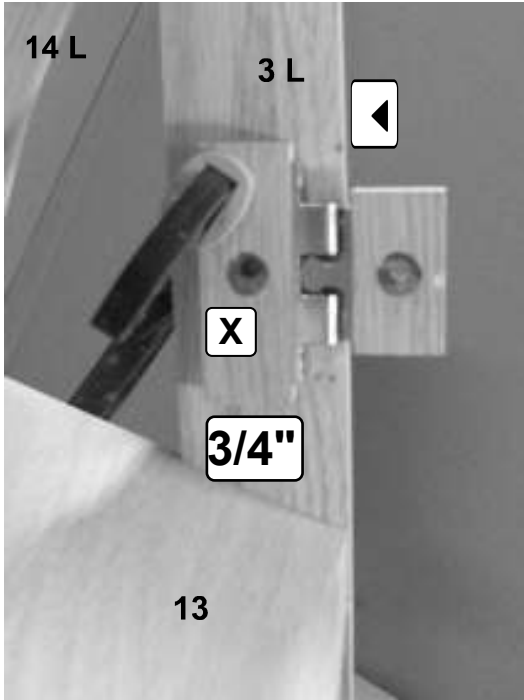
V Put the assembly as a stool with the seat ends flush. Hold them in place with clamps and insert the hinge in the slot. Mark the hinge screws location.

W Pre-drill 3/32" max. holes and use # 5 x 5/8" copper-plated screws to holed hinge in place.

"Take care" with the screws on the long legs assembly not to go through the seat part when drilling or screwing. One way of being sure would be to drill the holes more parallel to the seat part.



Screw the lock to the lock wood blocks using the # 4 x 1/2" copper-plated screws.



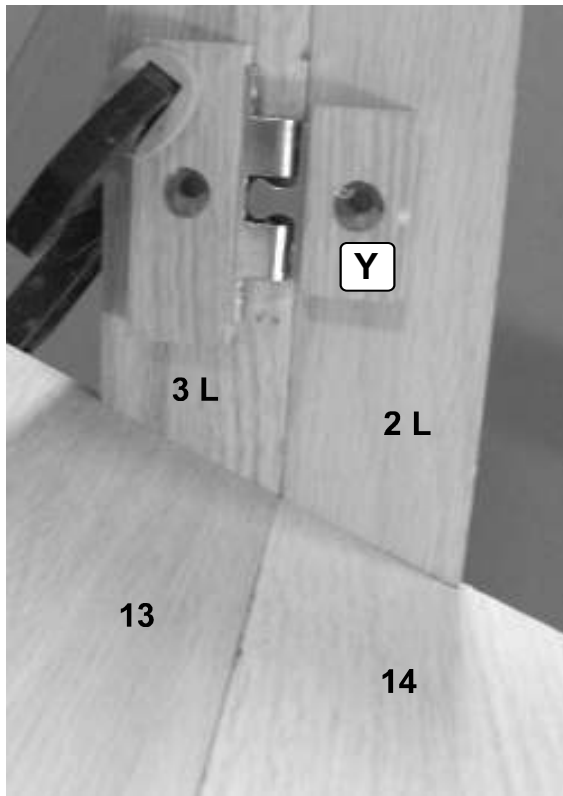
X With the stool open, locate the lock assembly on the left legs of the base over the step #13.

3/4" Locate it at 3/4" over the step, to be able to adjust the spring ball of the lock.

◀ The inside face of the small block should be flush with the outside of the leg #03G .

Pre-drill 1/8" hole and take care not to go through the leg and secure with #8 x 1/2" screw. Do not glue now.

Close the stool to the chair form, and align the small block to the inside of the long leg assembly on part #02G.



Y Pre-drill 1/8" hole and use #8 x 1/2" screw to hold to the leg. Do not glue now.

If adjustment is good, then you can take out the screws and glue the blocks to the side taking care to place them at the same place and angle. Insert wood plugs in hole and when dry, cut and or sand flush these plugs.

Now, what is left to do is the final sanding before applying the finish you have chosen.

Congratulation, your stool chair is now ready to paint, stain or varnish.

Depending on what surface it will be use, you might have to put some leg bumper feet on each of the 4 legs, on the top of the stool and on the top of the back rail. You can see an example on page 2.