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Standard Slab Roller

For 24 & 30" Models

Work Table Assembly Directions

Revised September, 2006. All prices and specifications subject to change without notice.

♣ Preliminary Notes ♣

- ♣ The Slab Roller Package is made up of three cartons. #1 contains the Slab Roller, this one the table frame, and #3 the TableTop and WagonWheel handle. If shipped by UPS the cartons may arrive as much as two or three days apart, even though all were sent at the same time.
- ♣ The Slab Roller carton contains four small lag screws which are not used by the Slab Roller Package. These may be discarded after assembly.
- ♣ Minimum tools required for assembling the table: Two adjustable ("Crescent") wrenches. (Ratchets and sockets or even open-end wrenches, if available, will be much quicker.)
- ♣ The Slab Roller will perform in a much more satisfactory manner if the table legs are bolted to the floor after assembly. In many situations, floor anchors simply are not possible. Some schools have solved this problem by cutting a single, heavy ($\frac{3}{4}$ ") piece of plywood or particleboard just large enough to lay flat against the floor inside the legs, then using the top of this sheet to store clay and other heavy supplies. An even better solution is North Star's optional bottom shelf that can hold up to 800 pounds. When loaded, this shelf will accomplish the same purpose and keep stored items out of the way of the user's feet.
- ♣ The name and use of each different bolt, nut and washer in the hardware packages is meticulously illustrated and described on the next page. Please read that page carefully and do not mix hardware items.

Step 1 - Prior to Assembly

This carton should contain the following parts. Identify each and lay them out in preparation. If anything is damaged or missing call North Star at USA (509) 235-9200 or (800) 231-7896 at once.

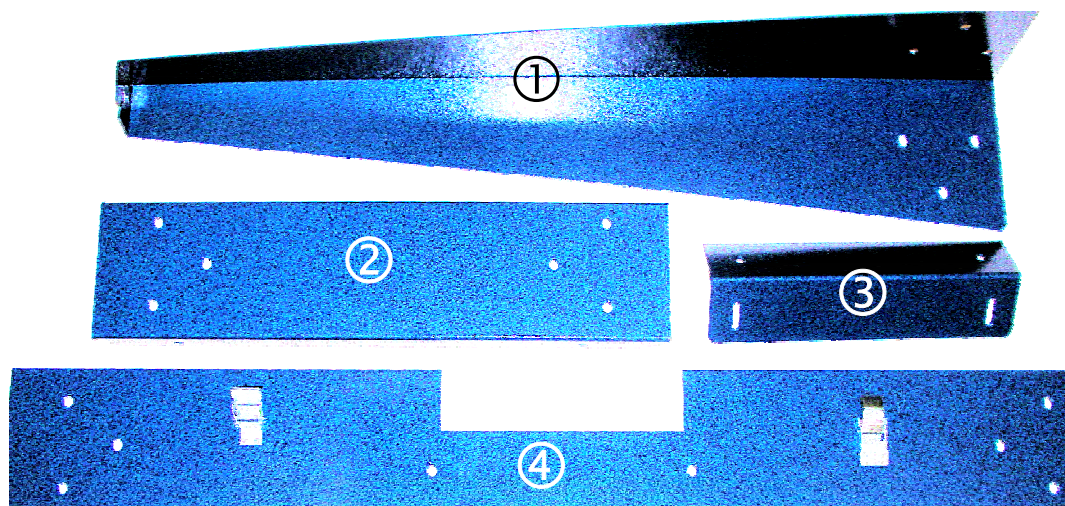
Four legs ①

Two end rails ②

Two Slab Roller mounting brackets ③


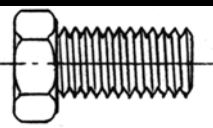

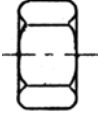

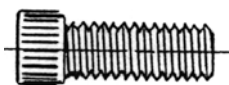
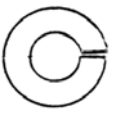


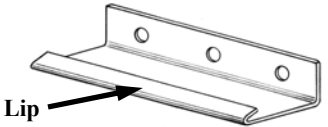




Two side rails ④

Hardware package (not shown below)



NOTE: If this worktable is for a 24" Slab Roller, part #2 (end rail) will be about 22" long. If it is for a 30" Slab Roller, it will be about 28" long. All other parts and instructions are exactly the same.

Contents of Hardware Package

Top view	Side view	Description	Number	Used
		3/8-16 x 3/4" cap screw	28	with the following nuts to fasten legs and side rails and end rails together and to fasten Slab Roller mounting brackets to side rails.
		3/8-16 hex nut for above screws	28	with above.
		1/4-20 x 3/4" socket cap screw	4	with the following three items to fasten the Slab Roller to the Slab Roller mounting brackets after the table is assembled.
	N/A	1/4" lockwasher	4	with screw above.
N/A		1/4-20 wing nut	4	with screw above.
N/A		3/16" short arm hex key (not to scale)	1	with screws, nuts and washers above.
N/A		clasp bracket (shown much smaller than actual size)	4	mounted to bottom of TableTop with the following screws, washers and nuts before the TableTop is mounted to the frame.
		#10 (3/16") x 1 1/4" flat head socket cap screw	12	to mount clasp bracket. NOTE: The hex key needed to turn this screw is 1/8" size and is in the Slab Roller carton hardware envelope.
	N/A	#10 (3/16") lock washer (not to scale)	12	to mount clasp bracket.
N/A		#10 (3/16") wing nut (not to scale)	12	to mount clasp bracket.

NOTE: With the exception of the clasp bracket, these items can be replaced at any hardware store. The standard nomenclature is that given in the "Description" column.

Step 2 - Frame Assembly

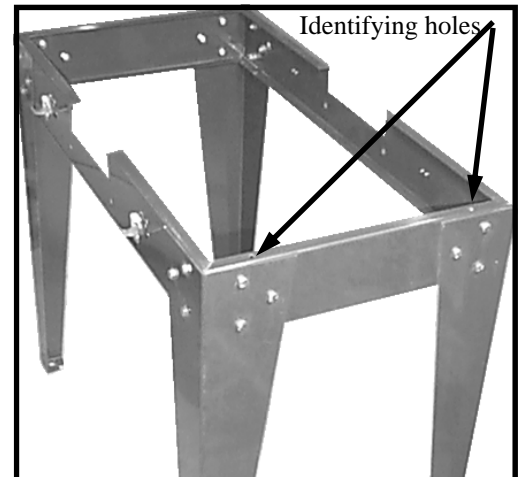
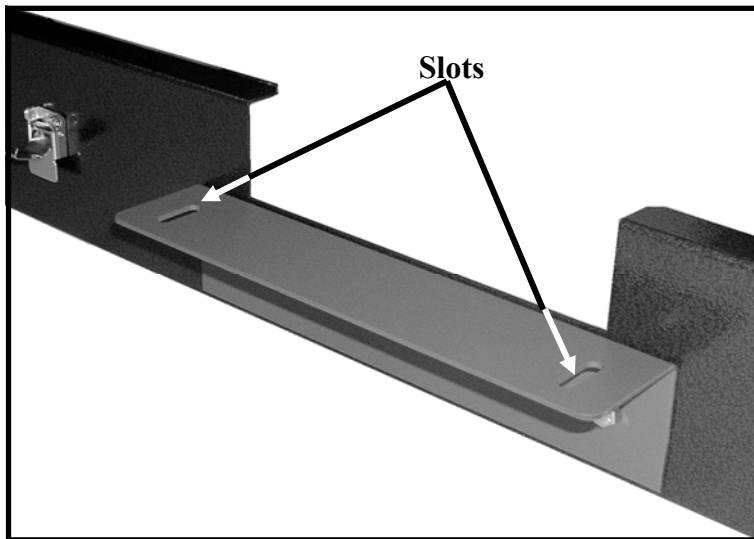
One bit of terminology before you start: As you look end-on at any of the rails, you will see that it is a little like a “U” shape. The narrow sides are called “flanges” 

The table frame is simply a rectangle of rails held together at the corners by the legs. Before you begin, there is one very important point: the top flanges of the end rails are marked by a small hole near each end. These holes are not used other than to identify the top side of the end rails.

Though the illustration at right shows the frame upright, it is easier for most people to assemble it upside down on a smooth, flat surface. Make sure the notches in the side rails and the holes in the end rails are up (as the table will be when in use). Also, legs go to the outside at each corner. In all cases, bolt heads go to the outside of the table and rail flanges and nuts to the inside. Do not tighten the bolts more than finger tight at this time.

Turn the frame over so it is standing upright. Push down at each end of each of the four rails so that the corners align. When the rails are even at all corners and the legs are standing squarely on the floor, tighten all bolts at all corners.

Next, attach the Slab Roller mounting brackets. One goes below the notch in each side rail. Again, the heads of the bolts go to the outside. The slots must be up, as shown below.



Step 3 - Attach Clasp Brackets to TableTop

Examine the two TableTop sections (from carton #3). Each has a specific top and bottom. The tops of the predrilled holes are countersunk. Also, the bevel (which will go toward the bottom roll) is on the bottom as in this cross section:



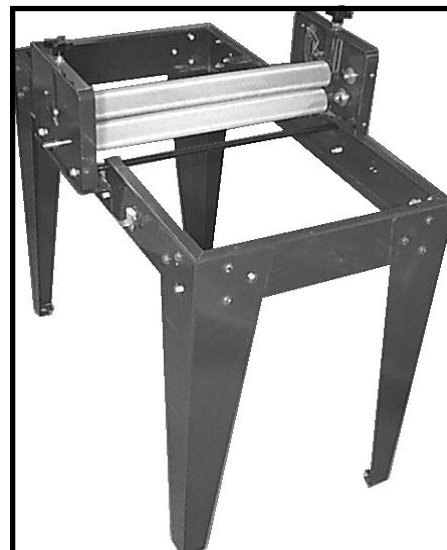
Clasp brackets go on the bottom of the TableTop section. Align them with the predrilled holes so that the open side of the bracket and the lip face the edge of the TableTop section. Insert the screws from the top and secure them with lockwashers and wing nuts. Tighten the screws with the small hex key or “allen wrench” provided in the hardware package. Note that the wing nuts will hit the back of the clasp bracket and hold themselves in place so that no wrench is needed on this end during tightening.



Step 4 - Mount the Slab Roller and TableTop

Place the Slab Roller at the center of the table frame so its base rests on the slab roller mounting brackets. Fasten the machine to the mounting brackets with bolts from the top and lockwashers and wing nuts from the bottom, but do not tighten yet.

Lay one TableTop section on each end of the frame with the rounded corners at the outer ends of the table frame (away from the Slab Roller). There should be $\frac{1}{8}$ " or less between the bevel on each section and the bottom roller. Also, the top of each TableTop section should be about $\frac{1}{8}$ " below the top of the bottom roller. It must not be above the top of the bottom roller. The slots in the Slab Roller mounting brackets allow side-to-side adjustment. When both TableTop sections and the Slab Roller are in line and in position, close the latches to hold the TableTop in place and tighten the wing nuts holding the Slab Roller.



♣ A Special Note ♣

- ♣ If the latches do not secure the TableTop tightly enough due to wear or for some other reason, this can be corrected by simply affixing a strip of heavy tape to the lip of each clasp bracket.

Worktable Replacements Parts List

Part name	Number required	
Hardware package complete	1	
Instruction set	1	
Table leg	4	
End rail for 24" Std Slab Rlr	2	
End rail for 30" Std Slab Rlr	2	
Side rail with latches	2	
Slab Roller mounting bracket	2	
TableTop section for 24" Std Slab Rlr	2	
TableTop section for 30" Std Slab Rlr	2	

Contact North Star Equipment for prices on replacement parts.

Now go on to the Slab Roller instructions.