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Super Slab Roller

24, 30 and 36" models

Worktable Assembly Directions

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

If you have purchased the Super Slab Roller Package (Slab Roller and Worktable together) you will receive, in addition to Cartons 1 and 2 containing the Slab Roller and the WagonWheel Handle:

Carton #3: Table Frame

- A. Four table legs
- B. Two long rails with square notch
- C. Two end rails (May be 22, 28 or 34" long, depending on model)
- D. Two 12" long "L" mounting brackets
- E. Two extension rails with connector plates bolted in place (Do not disassemble!)
- F. Hardware package (nuts & bolts)

(See photos at right.)

Carton #4: TableTop

Three TableTop sections
(each 24" long by 24, 30 or 36" wide depending on model)

(No photo.)

Something Missing or Damaged?

North Star Equipment guarantees delivery in good condition, no matter how our products are shipped. If anything is missing or damaged, contact us immediately. (Contact information is in the header at the top of this page.) If all is OK, go on with the worktable assembly instructions, then return to the Slab Roller instructions when finished.

Table legs

(35" long)

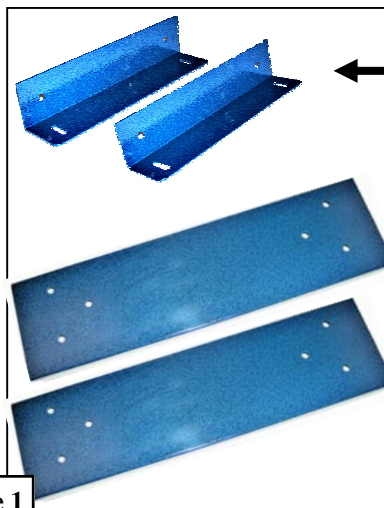
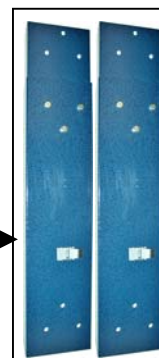


Long rails

41 $\frac{3}{4}$ " long

Extension rails with connector plates bolted in place

29" long total
Do not disassemble these parts.



Mounting brackets

12" long


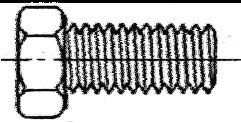

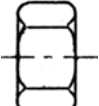


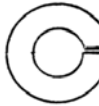

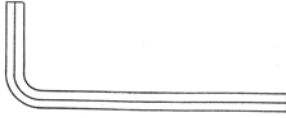
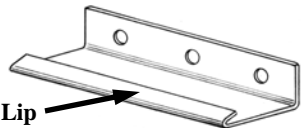




End rails

22, 28 or 34" long
depending on
model

Hardware Package
is not illustrated.

First, identify the hardware and separate items according to the way each item will be used.

The pictures below are actual size unless noted otherwise

Top view	Side view	Description	Number	Used
		3/8-16 x 3/4" cap screw	34	with the following nuts to fasten long rails to connector/extensions, mounting brackets to long rails and legs to rails.
		3/8-16 hex nut for above screws	34	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 screws above.
N/A		1/4-20 wing nut	4	with screws above.
N/A		3/16" short arm hex key (not to scale)	1	with screws, nuts and washers above.
N/A		latch plate (shown much smaller than actual size)	6	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	18	to mount latch plates. 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)	18	to mount latch plates.
N/A		#10 (3/16") wing nut (not to scale)	18	to mount latch plates.

NOTE1: With the exception of the latch plates, these items can be replaced at any hardware store.

The standard nomenclature is that given in the "Description" column.

NOTE2: Minimum tools required for assembly: #2 Phillips screwdriver, adjustable ("Crescent") wrench and two 9/16" open-end wrenches. Sockets, if available, will be quicker and easier.

Part A: Table Assembly

IMPORTANT NOTES: Assemble table frame upside down on a smooth floor (See Figure 2). In this section "top", "bottom", "up" and "down" refer to the table as it will be when sitting upright after assembly. Follow these instructions in exact sequence. In all cases, bolts and flanges (the narrow parts of rails) point toward the center of the table.

1. Assemble the two side rails as in Figure 1. Each side rail is made up of three pieces: a long rail with notch, a connector plate and an extension rail. The connector is already bolted to

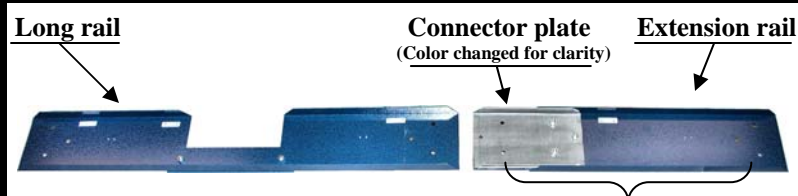


Fig 1

the extension. Line up the "A" arrow on the connector/extension with the "A" arrow on the long rail and bolt them together but do not tighten yet. Do the same thing with the other rail, lining up the "B" arrow on the connector/extension with the "B" arrow on the long rail. Now, lay one flange of one of the assemblies against the floor to use the floor as a straightedge. Firmly tighten the bolts you just installed. Repeat for the other side.

2. Two side rails and two end rails form a rectangle held together by the legs at the outside of each corner. Refer to

Figure 2 to see how the frame goes together. Notice that the notches in the side rails are not in the center. Both notches go toward the

same end of the table. Use 3/8" bolts and nuts to assemble with the nuts to the inside. Finger-tighten only. With a helper, turn the frame upright and push down on all rails so that the corners are even. Then firmly tighten all nuts and bolts

3. Slab roller mounting brackets are the two heavy L-shaped pieces 12" long with slots in one face and 3/8" round holes in the other. Match the round holes with those below the notch of the side rails and bolt them in place with the slotted face upward. They will be just below the bottom of the notch.

4. Tighten the mounting bracket bolts.

5. Attach Latch Plates to the TableTop sections. Examine the three TableTop sections. Each has a specific top and bottom. The tops of the predrilled holes are countersunk. Also, the bevel indicates the bottom as in this cross section:



Latch plates go on the bottoms of the TableTop sections, two to each section. Align them with the predrilled holes so that the open side of the plate

faces the edge of the TableTop section. Insert the screws from

the top, secure them with lockwashers and wing nuts. Then tighten the screws with the small hex key or "allen wrench" from the hardware package in the Slab Roller carton. The wing

nuts will hit the back of the latch plate and hold themselves in place so that no wrench is needed to tighten them. Set aside for now.

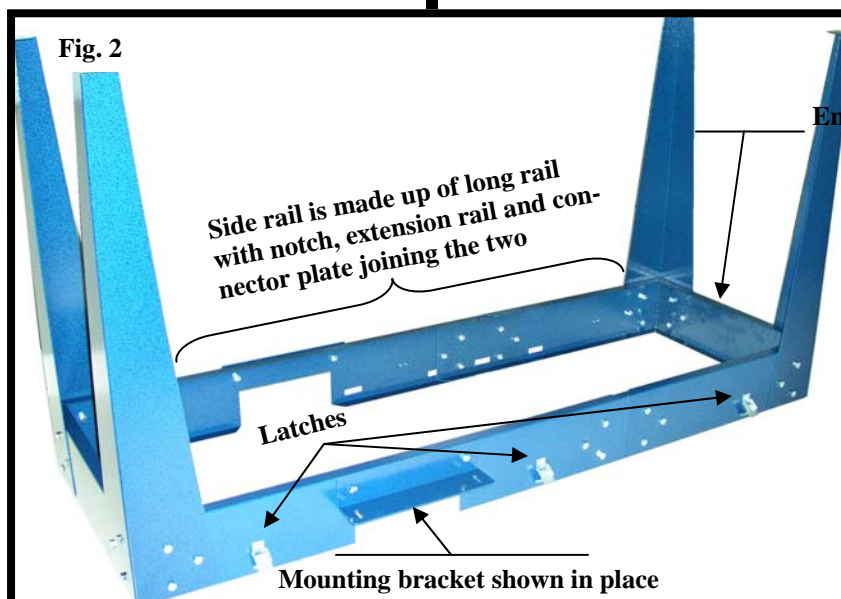


Fig. 2

6. Place the Slab Roller in the notch so that the base of the machine rests on mounting brackets.

7. Fasten the Slab Roller to the mounting brackets (see Page 2 for the correct hardware). Drop the bolts in from the top, then put a washer and nut on each. **DO NOT TIGHTEN YET.**

8. Lay one section of the TableTop with rounded corners on the short end of the table frame. The rounded corners must be away from the Slab Roller and the beveled edge must be down. Leave about 1/8" clearance between the bottom roll and the TableTop. Move the Slab Roller and TableTop section as far as possible toward the short end of the table, but make sure the roll does not actually touch the TableTop section.

9. The next section of the Table Top has no rounded corners, but one long bottom edge is beveled. Place this section on the other side of the Slab Roller with the bevel toward the bottom roll. Again, leave about 1/8" clearance. Now butt the bevel of the third section against the square edge of the second. Make sure the upper surface of the TableTop is slightly below the top of the bottom roll. When all three sections of the TableTop are in position, aligned from side to side and you are sure the bottom roll does not scrape or rub against the TableTop, tighten the bolts holding the Slab Roller and close all latches.

10. Install the large plastic guard over the train of four nylon linking gears. It simply slips over the end housing and is held in place by the four screws that have been pre-mounted there to receive it.

11. In Carton #2 you will find a tapered black plastic grasp handle taped to the cross member of the WagonWheel Handle. Remove this now and set it aside until the next section has been finished.

Part B: Attach Handles

WagonWheel

Read this part carefully and take your time. It can be tricky or confusing.

*Some terminology before you begin: **Spreader bars** are the two black rods that lie parallel to and near the bottom of the lower roll.*

***Spreader bolts** go into these rods from the outside of the housing or end plates. The **gear end** of the Slab Roller has a series of four nylon gears on the outside. The other end of the machine has an egg-shaped plastic guard near the bottom and is referred to as the **handle end**. It may be worthwhile removing the guard from the handle end (it is held in place with three Phillips head screws). Have a look at the large steel gear and the nylon spacer. Notice the way the spacer rides on the big steel gear and that it has a hole for the hub of the WagonWheel. You can see that the handle will ride on the bolt and that the small gear on the hub of the WagonWheel will go through the spacer and then engage the large gear. There is also a nylon thrust washer on the handle bolt which lies flat against the housing and is partly covered by the large steel gear. When the WagonWheel handle is installed the small gear on the end of it will be against it. This little washer is vitally important. Just get the idea, then replace the guard without installing anything. On the inside of the housing at the handle end of the machine, you will see a hexagonal recess near the top of the lower roll. Fitted loosely into this hole is the handle bolt which will serve as the shaft for the WagonWheel handle. The other end of this bolt has an acorn nut or "finish nut" (with a washer taped to it). This end protrudes through the nylon spacer strap and the black plastic guard.*

Leave the guard in place but remove the nut and washer from the handle bolt.

Tap the head of the bolt with a soft mallet to seat it fully in its recess. Do not use a steel hammer and be very careful not to scar the roll!

Slide the WagonWheel onto the bolt. Make sure the small gear on the WagonWheel first passes through the nylon spacer and then engages the large gear.

- 1) Push it all the way in. You may need to wiggle it around a bit to make the drive gear on the WagonWheel engage the large gear inside the guard but you will know when it is in place. If the handle just refuses to engage

the large gear, loosen (but do not remove) the two spreader bolts on the handle end and try again.

- 2) Put the washer and nut on the handle bolt and tighten snugly but do not bind.
- 3) Finally, re-tighten the spreader bolts if you have loosened them.

Grasp Handle

After the WagonWheel has been installed, you will notice a small hole through the center spoke out very near the perimeter. If desired, the grasp handle can be installed on the WagonWheel by following these steps:

Remove the nut and one of the nylon washers from the grasp handle. (This is a nylon lock nut and a wrench may be needed.)

Mount the grasp handle on the WagonWheel projecting away from the hub. One of the nylon washers must be under it and the other must be behind the cross bar. Put the nut on the stud and tighten.

The adjustment of this nut is critical. It should be loose enough to allow the grasp handle to revolve in your hand as you turn the WagonWheel, but snug enough to prevent it from wobbling about. It may take some experimentation to get it just right.

Should this nut become lost or damaged, a replacement can be purchased at any hardware store for a few cents. Ask for a $\frac{3}{8}$ " coarse thread nylock hex nut.

We suggest that if small children will use the machine without close supervision the grasp handle not be used because of their love of "driving" the Slab Roller as fast as they can make it go.

♣ A Special Note ♣

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

Replacement Parts

Price List

Super Slab Roller Worktable

Item	# required	Contact North Star Equipment for current prices!
Table leg	4	
Long rail w/ latches	2	
Extension rail w/ latch	2	
Connector plate	2	
Mounting bracket	2	
End rail (24" model)	2	
End rail (30" model)	2	
End rail (36" model)	2	
End TableTop section (24" model)*	2	
End TableTop section (30" model)	2	
End TableTop section (36" model)	2	
Center TableTop section (24" model)	1	
Center TableTop section (30" model)	1	
Center TableTop section (36" model)	1	
Latch plates pkg (two latch plates, hex key, screws, washers, nuts)	One each TableTop section	
Hardware Package, complete	1	

* Note that on a given model the two TableTop end sections are identical.

**Now go on to the
Slab Roller instructions**

