



## BOX EDGE PLUS® STEEL SHELVING INSTALLATION INSTRUCTIONS

IMPORTANT: To reduce the risk of serious injury, read and understand this entire guide before beginning any installation.



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#### **BEFORE YOU BEGIN:**

- 1. Check your inventory to be sure you received your entire order. If there are any missing or damaged parts, contact your **Dealer** or **Borroughs Customer Service Manager**.
- 2. Read and understand the entire installation instructions prior to beginning the install.

#### **SAFETY WARNINGS:**



This symbol is used to address practices not related to personal injury.



A potentially hazardous condition exists that may result in death or serious injury, property damage, or destruction if instructions are not strictly observed.



This symbol is used to address practices not related to physical injury.

Once installation is completed, a copy of the installation instruction booklet MUST remain with the customer.

**<u>Hardware List</u>**: Refer to page 6 for complete list.

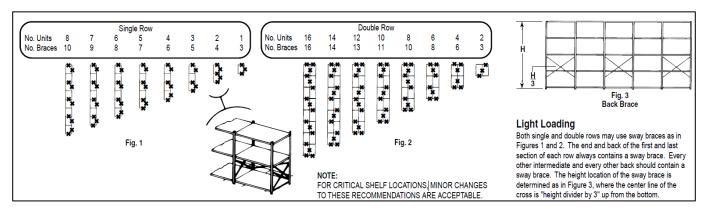
#### **Tools Required to Complete Installation:**

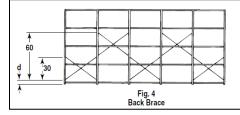




#### **SWAY BRACING RECOMMENDATIONS**

#### For Units 99 Inches High and Less

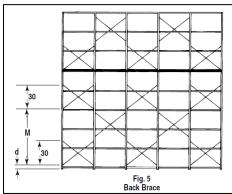


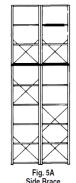




#### Standard Loading

For rigidity in standard duty applications, a pair of sway braces should be put in every opening at the heights illustrated in Figure 4. Each open end should be braced as illustrated in Figure 4A.





Connection point as close as possible to mezzanine level- may be either above or below level.

M = maximum distance possible - up to and including 30"

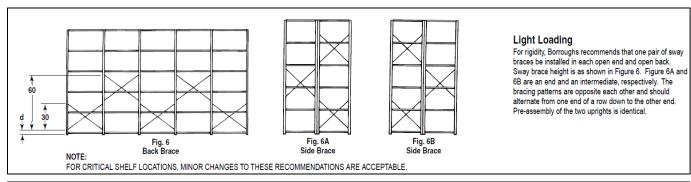
d = minimum reasonable distance (e.g. 4.5" - 6.0")

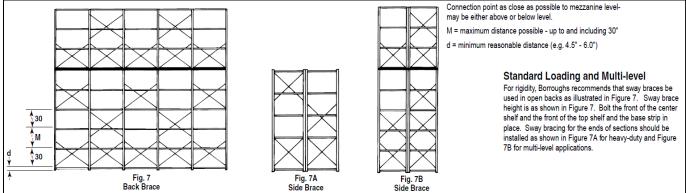
#### Multi-level Application

For rigidity in mezzanine applications, two sway braces should be put in every other opening at the heights illustrated in Figure 5. The intervening openings should be braced with one pair of sway braces as shown. The term "d" equals the distance for mounting the sway braces to the post from the floor. Bolt the front of the center shelf and the front of the top shelf and the base strip in place. The open ends should be braced as illustrated in Figure 5A.



#### For Units Over 99 Inches High







FAILURE TO FOLLOW THESE SWAY BRACING RECOMMENDATIONS COULD RESULT IN AN IMPROPER INSTALLATION, SHELVING COLLAPSE, PERSONAL INJURY AND/OR COMMODITY LOSS.



#### **HARDWARE REQUIREMENTS**

Part Name	Hardware Included	Pieces Req'd.	Part Name	Hardware Included	Pieces Req'd.	Part Name	Hardware Included	Pieces Req'd.
Angle Post	1/4-20 x 5/8 HHMS Gr. 5	2	Shelf Divider	Divider Clip (nylon)	2	Sliding Door	Hardware Pack #48 includes:	
Std. & Commercial	1/4-20 Hex Nut	2	Angle	(14761-000)			Door Pulls (Plated)	2
Decided Decid	Mana		Ob alf District	Divides Olis (sedes)	4		Furniture Lock (Plated)	1
Beaded Post	None	-	Shelf Divider Fixed	Divider Clip (nylon) (14761-000) Up to 24" deep	4		Lock Catch (Painted) Ball Bearing Sheave	1
Closed Side	1/4-20 x 5/8 HHMS Gr. 5	4	rixed	36" deep	6		10-24 Hex Nut	8
Angle Post	1/4-20 Hex Nut	4		30 deep	0		1/4-20 Hex Nut	14
Angle i ost	174 20 FIGA 1440	7	Shelf Divider	None	_		10-24 x 3/8 Phillips THMS	8
Closed Side	None	_	Support	Hono			#8 x 3/8 Slotted Oval Head	·
Beaded Post							Screw	4
			Label Holder	Divider Clip (nylon)	3'		1/4" Lock Washer Fin. P.	14
Post Splicer	1/4-20 x 3/4 HHMS Gr. 5	4	Full Length	(14761-000)			1/4-20 x 5/8 THMS	14
	1/4-20 x 5/8 HHMS Gr. 5	4					Instructions	1
	1/4-20 Hex Nut	8	Long Parts Frame	Hardware Pack #334 includes:				
				1/4-20 x 1 Slotted THMS	4	Mezzanine Beam	None	-
Post Splicer Bar	1/4-20 x 5/8 HHMS Gr. 5	6		1/4-20 Hex Nut	4			
	1/4-20 Keps Nut	6		5/15-18 x 5/8 Hex Head		Mezzanine Bracket	1/4-20 x 1 HHMS Gr. 5	5
	444.00 510.111.1140.0.5	•		Cap Screw	4	Angle & Beaded	1/4-20 Keps Nut	5
Post Splicer Plate	1/4-20 x 5/8 HHMS Gr. 5	8		5/16-18 Square Nut	4	Catwalk Beams	1/4 20 Kana Nut	4
	1/4-20 Keps Nut	8		5/16 Shakeproof Washers	4	Angle & Beaded	1/4-20 Keps Nut 1/4-20 x 1 HHMS Gr. 5	4
Beaded Post	1/4-20 Keps Nut	4	Spacer Rods	None	_	Allyle & Deaded	1/4-20 X 1 HHIVIS GI. 5	4
Splice Kit	1/4-20 x 5/8 HHMS Gr. 5	4	Spacer nous	None		Face Aisle	1/4-20 Keps Nut	2
Opiloo Itit	10-24 x 1/2 Rolok Screw	8	Boltless Hang Rods	None	_	Cap Beam	1/4-20 x 3" Hex Head Cap	_
	Splicer Bar	1				- ap Bouin	Screw	2
	Beaded Post Splicer	1	Shelf Box	None	-			_



#### HARDWARE REQUIREMENTS CON'T

Foot Plate Kits Front Foot	1/4-20 Keps Nut	1	Box Guide	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	2 2	Cross Aisle Cap Beam	None	-
and Back-to-Back Plate	1/4-20 x 5/8 HHMS Gr. 5	1	Bin Front	Bin Front Clip Plated	2	Outside Aisle Cap Beam	1/4-20 Keps Nut 1/4-20 x 3" Hex Head Cap	2
riate			1-1/2" Angle Post	1/4-20 x 5/8 HHMS Gr. 5	2	Cap Dealli	Screw	2
Shim Plates			•	1/4-20 Hex Nut	2			
Front	None	-				Single Face	1/4-20 Keps Nut	1
Back	None	-	Bin Front 3" & 6" Angle Post	1/4-20 x 1 Slotted THMS 1/4-20 Hex Nut	2	Back Cap	1/4-20 x 3" Hex Head Cap Screw	1
Post Foot Plate	None	_	3 & 0 Allgle Fost	1/4-20 Flex Nut	2		OCIEW	'
			Bin Front	1/4-20 x 5/8 HHMS Gr. 5	2	Back-to-Back Cap	1/4-20 Keps Nut	2
Post Foot Angle	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	2	1-1/2", 3" & 6" Beaded Post	1/4-20 Hex Nut	2		1/4-20 x 3" Hex Head Cap Screw	2
Post Cover	10-24 Hex Nut	6	Bin Front Clip	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	2 2	Single Face Attachment Bracket	1/4-20 Keps Nut 1/4-20 x 5/8 Hex Head Cap	2
Back	Back Clip (05088-824-330)	.25		20	-		Screw	2
	1/4-20 x 5/8 Gr. 5 HHMS	10	Counter Top	None	-			
	1/4-20 Hex Nut	10				Row End Corner	1/4-20 Keps Nut	3
			Ledge Top	None	-	Splice Channel	1/4-20 x 1-1/4" HHMS Gr. 5	3
Back Brace (pair)	1/4-20 x 5/8 HHMS	5						
	1/4-20 Hex Nut	5	Counter Back	1/4-20 x 5/8 HHMS	8	Row End	1/4-20 Keps Nut	4
Oids Dusse (sein)	4/4 20 2/4 [	-		1/4-20 Hex Nut	8	Kick Plate	1/4-20 x 1-1/2" Hex Head Cap	4
Side Brace (pair)	1/4-20 x 3/4 HHMS Gr. 5 1/4-20 Hex Nut	5 5	Tape Reel Hanger	Hardware Pack #342 includes:			Screw	4
	1/4-20 Hex Nut	5	Kit	10-24 Keps Nut	2	Row End	1/4-20 Keps Nut	3
Face Brace	1/4-20 x 5/8 HHMS Gr. 5	6	Kit	10-24 x 3/8 Phillips THMS	2	Hand Rail	1/4-20 x 3/4" THMS	3
Angle & Beaded Post (pair)	1/4-20 x 3/8" Self-Drilling MS 1/4-20 Keps Nut	6 6	Print-out Hanger	Hardware Pack #342 includes:		Citation 0612	Hardware Pack #251 includes:	

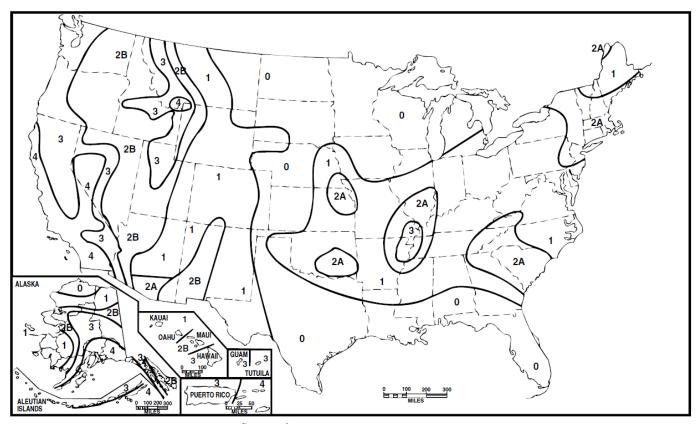


#### HARDWARE REQUIREMENTS CON'T

	Double Face Tape	.075 ft.		10-24 Keps Nut	2		1/4-20 Hex Nut	21
				10-24 x 3/8 Phillips THMS	2		Shelf Brackets	12
Base Strip	1/4-20 x 5/8 HHMS Gr. 5	2		*			1/4-20 x 5/8 PHMS	21
Angle & Beaded	1/4-20 Hex Nut	2	Single Point Hanger	None	-			
Common Service of the common o			Com-Se Andrews Company Com-			Citation 0618	Same as Citation 0612	
<b>Box Edge Shelves</b>	Shelf Brackets	4	Framed Swing	Hardware Pack #414 includes:				
	(09531-099-330)		Door	Handle with Lock and 2 Keys	1			
				Push Clip	1			
				Handle Reinforcement	1			
Shelf Saddle	None	-		Cam Ind. Double Door	1			
				1/4-20 x 5/8 HHMS	6			
Shelf Saddle	None	0 <del>-</del> 0		1/4-20 Hex Nut	6			
Support - Boltless				Saddle Reinforcement	1			
(pair)				#8-32 x 5/16 Sems Screw	2			
0	Maria			Screw #14 x 3/4 Hex				
Shelf Divider Sliding	None	-		Washer Head Self Drilling	6			



#### **SEISMIC RISK MAP**



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All areas of the United States have been zoned seismically. Each zone indicates the anticipated intensity or severity of a seismic occurrence within that region. Zones range from 0 (least likely) to 4 (most likely) to experience damage.

**NOTE:** Special care should be taken when specifying any system in a highly seismic area.



#### **GENERAL INSTRUCTIONS**

Preparing for multiple section installations, it is recommended that a floor plan with elevations be available at job site. It is also recommended that floor be marked to indicate where rows and aisles will be so distributed material can be stacked for minimal interference. This will show where obstructions will occur. Sections may then be erected along the lines. Once the rows are in place bracing bolts can be tightened so each section will remain square. Rough or uneven floors should be compensated with shims. It is required that sections not be out of plumb more than one (1) inch in ten (10) feet or more of height.

#### **BASIC DATA**

#### WIDTHS:

Nominal unit width: 24", 36", 42", or 48"

Actual beaded post unit width is the nominal width plus 1"  $^{+1/16}$ "  $^{-0}$ "

Actual angle post unit width is the nominal width  $^{+1/16''}_{-0''}$ 

Actual high-rise post unit width is the nominal width plus 2"  $^{+1/16"}_{-0"}$ 

#### **DEPTHS:**

Nominal depth: 12", 15", 19", 24", 30", 32", or 36".

Actual beaded post unit depth is the nominal depth plus 15/32"  $^{+1/32}$ "  $^{-0}$ "

with beaded post in front and angle post in back

Actual angle post unit depth is the nominal depth  $^{+1/32''}_{-0''}$ 

Actual high-rise post unit depth is the nominal depth plus 15/32''  $^{+1/32''}$ 

with high-rise post in front and angle post in back

Actual high-rise post unit depth is the nominal depth plus 1-15/16"

with high-rise posts in front and in back

#### **HEIGHTS:**

Nominal height: One (1) foot increments from 3'3' to 16'3"

Actual high-rise post unit depth is the nominal height minus 1/2" ±1/16"

NOTE: Unit anchoring is recommended when the height to depth ratio exceeds four (4)

EXAMPLE: 7'3" high x 18" deep unit has a height to depth ration of 4.873

and should be anchored to a firm restraint such as a floor, wall or tied overhead across the aisle to an opposite upright assembly

#### **LENGTH OF RUN:**

Actual length of beaded post shelving run in nominal unit width  $^{+1/16''}_{-0''}$  per unit plus ½' for each row end

Actual length of angle post shelving run in nominal unit width  $^{+1/16''}_{-0''}$  per unit

Actual length of high-rise post shelving run is nominal unit width  $^{+1/16"}_{-0"}$  per unit plus 1" for each row end.



#### **CLEAR SHELF OPENING:**

Actual clear opening between beaded posts is the nominal width minus 1"
Actual clear opening between angle posts is the nominal width minus 2"
Actual clear opening between high-rise posts in the nominal width minus 2"
Vertical clearance between shelves is equal to center-to-center shelf spacing minus 1-7/32"

#### **VERTICAL ADJUSTMENT:**

All shelves are adjustable on 1-1/2" centers

#### **SHELF CAPACITIES**

	BOX EDGE PLUS® 1	BOX EDGE PLUS® 2	BOX EDGE PLUS® 3
Size	Shelf Capacity	Shelf Capacity	Shelf Capacity
24" x 12"	600 lbs.		,
36" x 12"	600 lbs.	800 lbs.	1100 lbs.
42" x 12"		600 lbs.	1000 lbs.
48" x 12"	400 lbs.	500 lbs.	800 lbs.
36" x 15"	600 lbs.	800 lbs.	1100 lbs.
42" x 15"		600 lbs.	1000 lbs.
48" x 15"		500 lbs.	800 lbs.
24" x 18"	600 lbs.		
36" x 18"	600 lbs.	800 lbs.	1200 lbs.
42" x 18"		600 lbs.	1000 lbs.
48" x 18"	400 lbs.	500 lbs.	800 lbs.
24" x 24"	600 lbs.		
36" x 24"	600 lbs.	800 lbs.	1200 lbs.
42" x 24"		600 lbs.	1000 lbs.
48" x 24"	400 lbs.	500 lbs.	800 lbs.
36" x 30"		600 lbs.	900 lbs.
42" x 30"		600 lbs.	1000 lbs.
48" x 30"		500 lbs.	750 lbs.
42" x 32"	300 lbs.	650 lbs.	1000 lbs.
36" x 36"		400 lbs.	600 lbs.
42" x 36"		450 lbs.	600 lbs.
48" x 36"		450 lbs.	700 lbs.

#### **IMPORTANT:**

Wall, floor or top tie anchoring is recommended for units when the height to depth ratio exceeds 4.

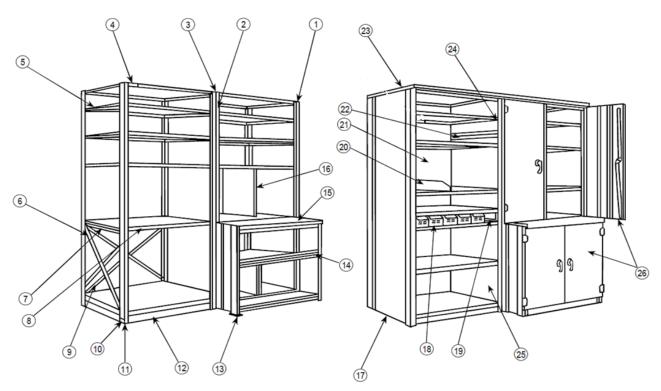
Example: A 7'/84" high x 18" deep unit has a height to depth ratio of 4.67 and should be attached to a firm restraint, such as a floor, wall or tied overhead across the aisle to an opposite upright assembly.

#### NOTE:

For more specific information on each individual component, please call our Customer Service Department at 800-748-0227 and ask for the booklet "Box Edge Plus® Steel Shelving Detail Sheets".



#### SHELVING PARTS IDENTIFICATION



- 1 ..... Angle Post
- 2 ..... Post Cover Type 2
- 3 ..... Angle Post (2)
- 4 ..... Face Brace
- 5 ..... Box Edge Plus® Shelf
- 6 ..... Side Cross Brace
- 7 ..... Side Shelf Support
- 8 ..... Label Holder
- 9 ..... Back Cross Brace

- 10 ... Post Foot Angle
- 11 ... Post Cover Type 1
- 12 ... Base Strip
- 13 ... Front Foot Plate
- 14 ... Bin Front
- 15 ... Ledge Top
- 16 ... Fixed Shelf Divider
- 17 ... Angle Post Closed Side
- 18 ... Shelf Box

- 19 ... Shelf Box Guide
- 20 ... Angle Shelf Divider
- 21 ... Shelving Back
- 22 ... Flush Bar
- 23 ... Cornice Top
- 24 ... Shelf Bracket Clip
- 25 ... Angle Post Closed Side and Angle Post (2)
- 26 ... Framed Swing Doors



### OPEN TYPE SHELVING STEPS

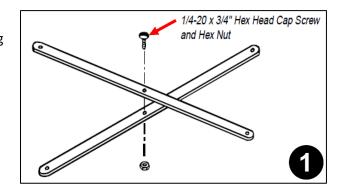
#### **Sway Brace Assembly**



After material has been distributed to proper location, assemble all sway braces by loosely bolting two matched pieces together at the center.

Assemble side sway braces with  $1/4-20 \times 3/4$ -inch hex head cap screws and hex nuts.

Assemble rear sway braces with 1/4-20 x 5/8-inch hex head cap screws and hex nuts.



#### **Row Ends Upright Assembly**

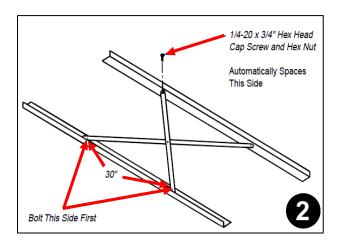


Determine from floor plan how many row end upright assemblies will be required. For each one, attach a pair of side sway braces to two (2) angle posts. Brace bolts on the inside of long flange. Refer to pages 10 and 11 for approximate, proper\* location of braces. Repeat this procedure until all row ends are assembled.

\*Pre-determine critical shelf location to avoid interference with sway brace bolts.

**NOTE:** All back and side sway braces are attached to uprights at 30 inches vertical spacing.

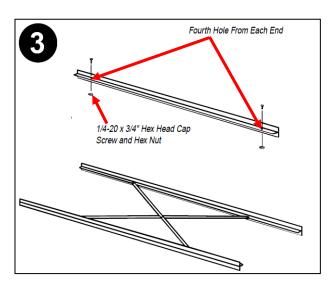
Attach side sway braces to posts with  $1/4-20 \times 3/4$ -inch hex head cap screws and hex nuts.



#### **Intermediate Upright Assembly**



Determine from floor plan how many intermediate upright assemblies will be required. Each intermediate consists of four angle posts and one (1) pair of side sway braces. Bolt two (2) posts together (through the fourth (4<sup>th</sup>) hole from each end, in the long flange) to form a "T" post. Repeat with other two (2) posts. The two (2) "T" posts and side braces are now bolted together at the same level and spacing as the row end upright assemblies (refer to step 2). Repeat this procedure until all intermediates are assembled. Attach side sway braces to posts with 1/4-20 x 3/4-inch hex head cap screws and hex nuts.



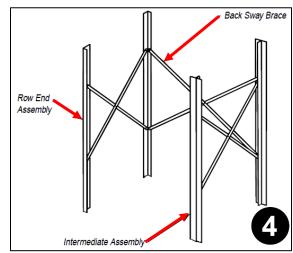


#### Single Row - Single Face Assembly



In assembly of a single row – single face, begin with a row end upright assembly, a back-sway brace and an intermediate upright assembly. The brace bolts to the row end and intermediate at the same level and spacing as previously installed side braces (step 2 and 3). Brace bolts on inside of short flange.

#### **DO NOT TIGHTEN BOLTS!**

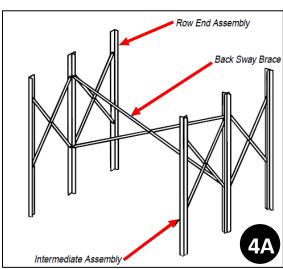


#### <u>Double Row – Double Face Assembly</u>



In assembly of a double row – double face, begin with two (2) rows end upright assemblies, a back-sway brace and two (2) intermediate upright assemblies. Bolt two (2) row ends together and then bolt the two (2) intermediates together – each in the fourth (4<sup>th</sup>) hole from the end. Two legs of back brace are now bolted on the inside of the short flanges of each upright at same level and spacing as previously installed side braces. (steps 2 and 3)

#### **DO NOT TIGHTEN BOLTS!**

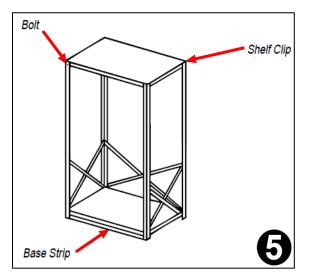


#### **Base Strip Attachment**



If a base strip is used, bolt it into place behind front of upright assemblies, as shown. The four bottom shelf clips are hung, and bottom shelf is set in place. The top shelf should now be installed using clips in back and bolts through the front face of upright and shelf. If a base strip is not used, install bottom shelf in same manner as top shelf.

**NOTE:** One (1) face edge of shelf is plain (unpunched) for aesthetics and one (1) face edge is punched to accept full-width shelf label holders.

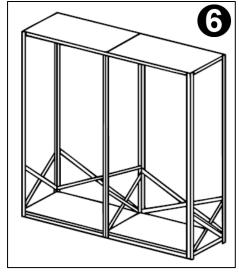




#### **Row Assembly**



Continue adding intermediate upright assemblies and back sway braces until row is complete, finishing off row with a row end upright assembly. Add the base strips if used, and as in step 5, top and bottom shelves each section.



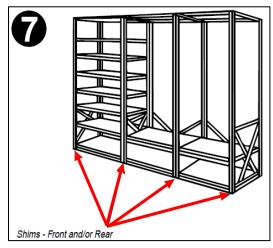
#### **Section Leveling**



When required, level sections with shims to cause each upright assembly to be plum within 1/10 inch per foot of height, up to and including 10-foot-high units. For units higher than 10-foot, maximum out-of-plumbness should not exceed 1 inch.



FAILURE TO LEVEL SECTION COULD RESULT IN SHELVING COLLAPSE, PERSONAL INJURY AND/OR COMMODITY LOSS.



#### **Tighten All Bolts**



Tighten all bolts and add intermediate shelves to complete the sections.



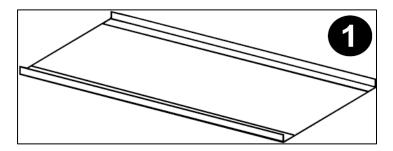
#### **CLOSED TYPE SHELVING**

#### **STEPS**

#### Row End - Closed Upright Assembly



After material has been distributed to proper location, determine from floor plan how many row end – closed upright assemblies and intermediate – closed upright assemblies will be required. The row ends exist as received, two (2) angle posts welded to a side panel. Set aside the required amount.

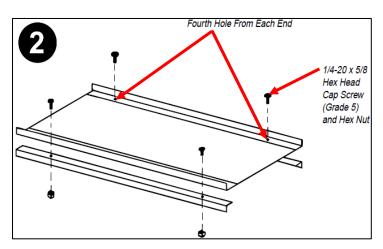


#### **Intermediate - Closed Upright Assembly**



Assemble intermediate – closed upright assemblies by bolting two (2) \* angle posts to closed upright assemblies to form a "T" (bolt through fourth (4<sup>th</sup>) hole from each end). Repeat this procedure until all intermediates are assembled.

\*One (1) angle post is required when a beaded post – closed side is being used.



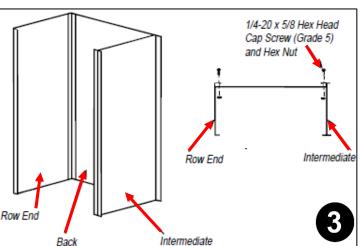
#### Single Row - Single Face Assembly



In assembly of a single row – single face, begin with a row end – closed upright assembly, a back and an intermediate – closed upright assembly. The back bolts inside angle post flanges, on both row end and intermediate at the fourth (4<sup>th</sup>) hole from each end and at two (2) medial\* points.

#### **DO NOT TIGHTEN BOLTS!**

\*Pre-determine critical shelf location to avoid interference with back bolts.





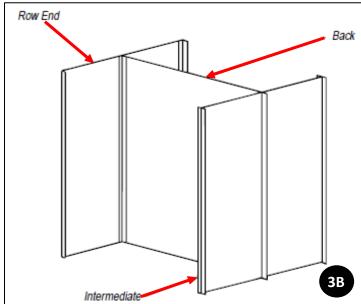
#### **Double Row – Double Face Assembly**



In assembly of a double row – double face, begin with two (2) row end – closed upright assemblies, a back and two (2) intermediate – closed upright assemblies. Bolt one side of back between angle post flanges of row ends and other side between angle post flanges of intermediates. In both instances, bolt through the fourth (4<sup>th</sup>) hole from each end and at two (2) medial\* positions.

#### **DO NOT TIGHTEN BOLTS!**

\*Pre-determine critical shelf location to avoid interference with back bolts.



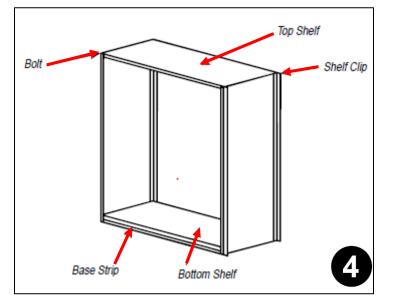
#### **Base Strip Attachment**



If a base strip is used, bolt it into place behind front flanges of upright assemblies, as shown. The four (4) bottom shelf clips are hung and bottom shelf is set in place. Top shelf should now be installed using clips in back and bolts through front face of the upright and shelf. If a base strip is not used, bolt bottom shelf in place.

**NOTE:** One (1) face edge of shelf is plain (unpunched) for aesthetics and one (1) face edge is punched to accept full-width shelf label holders.

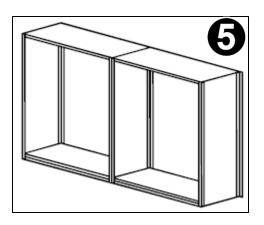
**NOTE:** Bolt top shelf at front and back on row ends.



#### Row Assembly



Continue adding intermediate – closed upright assemblies and backs until row is complete, finishing off row with a row end – closed upright assembly. Add base strips, if used, and top and bottom shelves to each section.





#### **Section Leveling**



Where required, level sections with shims to cause each upright assembly to be plum within 1/10 inch per foot of height.



FAILURE TO LEVEL SECTIONS COULD RESULT IN SHELVING COLLAPSE, PERSONAL INJUST AND/OR COMMODITY LOSS.

#### **Tighten all Bolts**



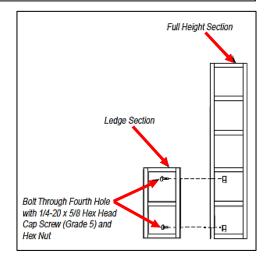
Tighten all bolts and add intermediate shelves to complete the sections.

# Shims Front and/or Rear

#### **MAJOR ACCESSORIES**

#### **Ledge Type Shelving**

Ledge sections, 3'3" High, are bolted to front of a full height section. The bolts are fastened through the fourth (4<sup>th</sup>) hole from each end.

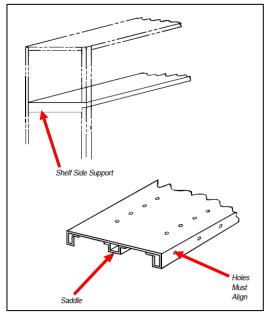


#### **Shelf Side Supports**

Tabs hook into front and rear posts in same manner as shelf clips. Side flange of shelf rests on top flange of shelf support.

#### **Shelf Reinforcement Saddles**

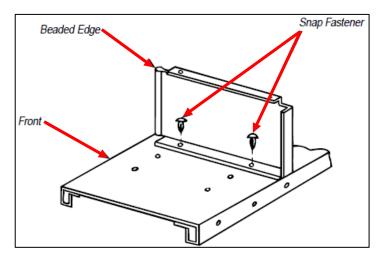
Install under center of shelf, flanged side up. Turn slightly to clear shelf side flange and then rest on side flanges. Must be used in conjunction with shelf side supports.





#### Shelf Dividers - Full Height

Install beaded edge toward front. Fasten in place with a snap fastener through hole in divider flange and hole in shelf, both top and bottom. When one divider is installed directly above or directly below another divider, one fastener per hole will hold both dividers.

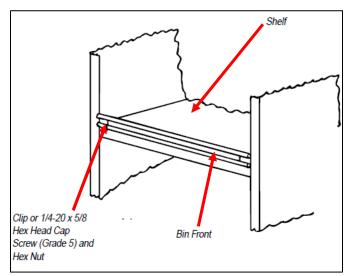


#### **Bin Fronts and Clips**

Install behind front flange of posts.

1-1/2-inch high bin fronts are supplied with clips which slide behind beads and hook over post flange.

3-inch and 6-inch high bin fronts are generally bolted to post front flange (hardware furnished) or, optional bolton clips may be used.



Once installation is completed, a copy of the installation instruction booklet MUST remain with the customer.



#### **WARRANTY**

Borroughs° extends to the original purchaser from the date of purchase a **limited lifetime warranty** for Borroughs' Automotive Workstations, Modular Drawer Cabinets, and Workbenches against manufacturing defects in material and workmanship.

For all other products Borroughs extends to the original purchaser from the date of purchase a **5-year limited warranty** against manufacturing defects in material and workmanship.

If a Borroughs product fails to perform because of a manufacturing defect, Borroughs will examine it. If found defective, it will be repaired or replaced at our option.

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Contact your Borroughs Selling Dealer to obtain warranty service. You must make a written claim. Provide a copy of your purchase record and a written description of the warranty problem with your claim.

If you are unable to contact your Dealer, contact:

Borroughs, LLC Customer Service Manager 3002 N Burdick Street Kalamazoo, MI 49004 800-748-0227