



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 Corporation 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.

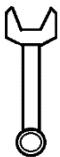


This symbol is used to address practices not related to physical injury.

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

Hardware List: *Refer to page 6 for complete list.*

Tools Required to Complete Installation:



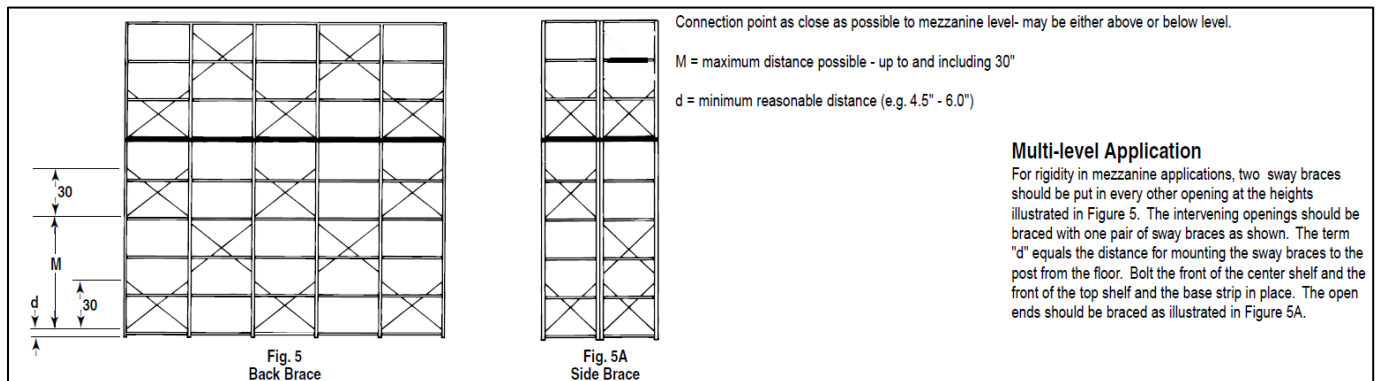
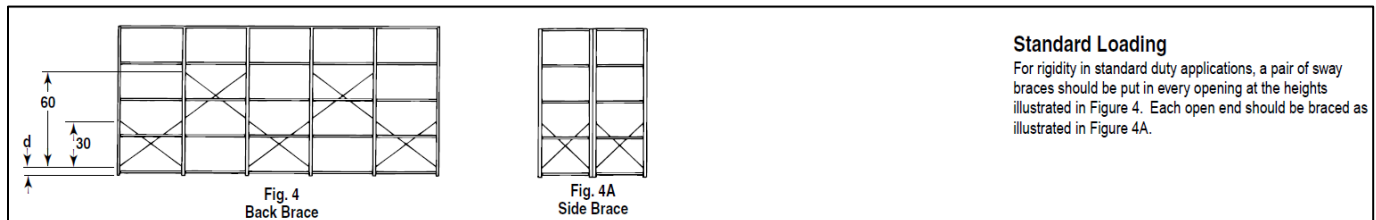
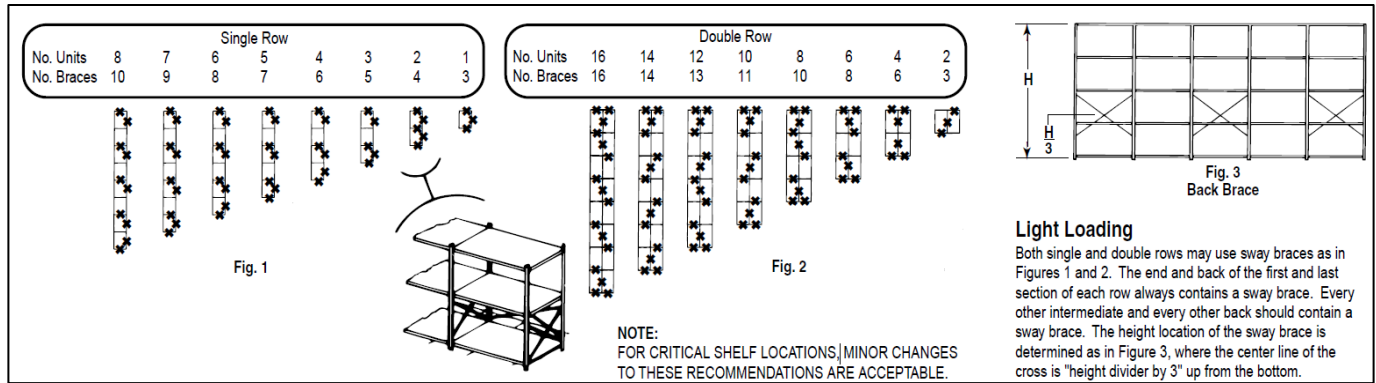
7/16"
9/16"



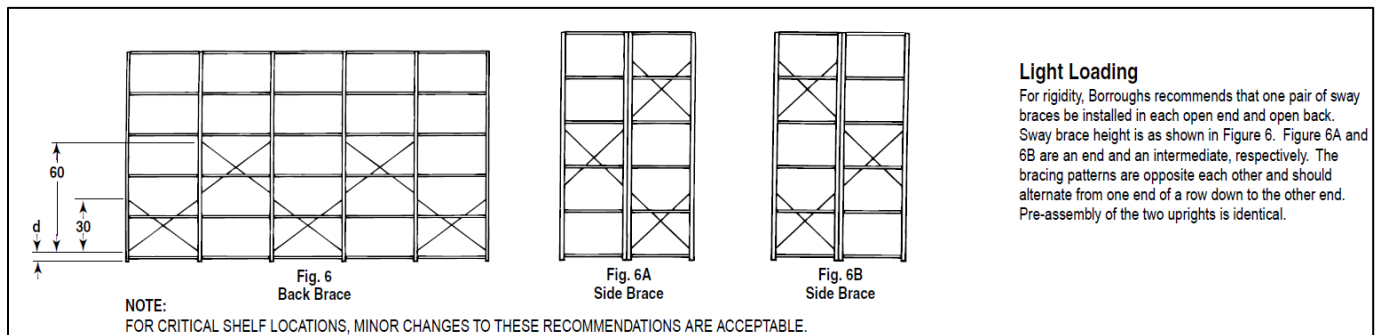
Socket Sizes
7/16", 9/16"

SWAY BRACING RECOMMENDATIONS

For Units 99 Inches High and Less

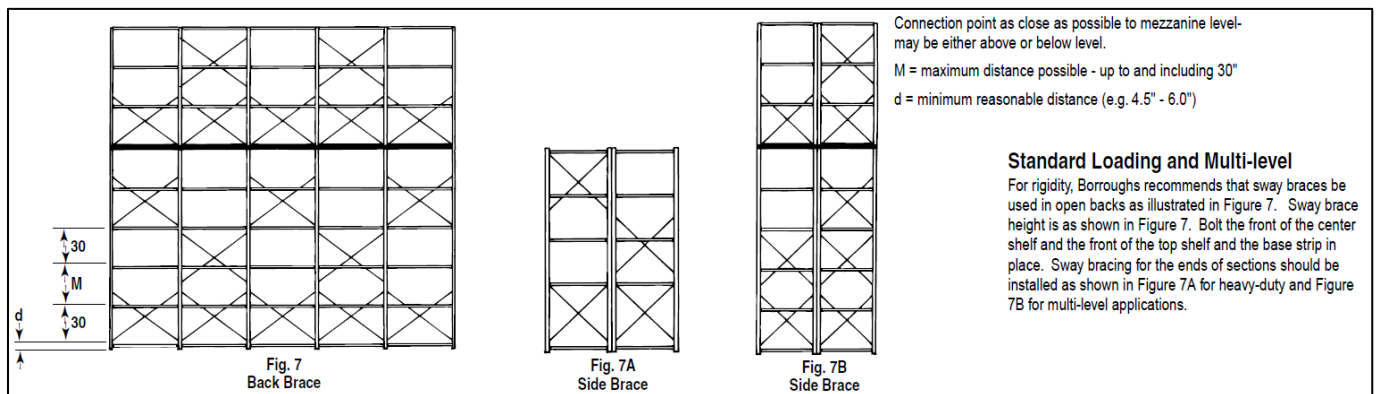


For Units Over 99 Inches High



Light Loading

For rigidity, Borroughs recommends that one pair of sway braces be installed in each open end and open back. Sway brace height is as shown in Figure 6. Figure 6A and 6B are an end and an intermediate, respectively. The bracing patterns are opposite each other and should alternate from one end of a row down to the other end. Pre-assembly of the two uprights is identical.



Standard Loading and Multi-level

For rigidity, Borroughs recommends that sway braces be used in open backs as illustrated in Figure 7. Sway brace height is as shown in Figure 7. Bolt the front of the center shelf and the front of the top shelf and the base strip in place. Sway bracing for the ends of sections should be installed as shown in Figure 7A for heavy-duty and Figure 7B for multi-level applications.



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



HARDWARE REQUIREMENTS

<u>Part Name</u>	<u>Hardware Included</u>	<u>Pieces Req'd.</u>	<u>Part Name</u>	<u>Hardware Included</u>	<u>Pieces Req'd.</u>	<u>Part Name</u>	<u>Hardware Included</u>	<u>Pieces Req'd.</u>
Angle Post Std. & Commercial	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	2 2	Shelf Divider Angle	Divider Clip (nylon) (14761-000)	2	Sliding Door	Hardware Pack #48 includes: Door Pulls (Plated) Furniture Lock (Plated) Lock Catch (Painted) Ball Bearing Sheave 10-24 Hex Nut 1/4-20 Hex Nut 10-24 x 3/8 Phillips THMS #8 x 3/8 Slotted Oval Head Screw 1/4" Lock Washer Fin. P. 1/4-20 x 5/8 THMS Instructions	 2 1 1 4 8 14 8 4 14 14 1
Beaded Post	None	-	Shelf Divider Fixed	Divider Clip (nylon) (14761-000) Up to 24" deep 36" deep	4 6			
Closed Side Angle Post	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	4 4	Shelf Divider Support	None	-			
Closed Side Beaded Post	None	-	Label Holder Full Length	Divider Clip (nylon) (14761-000)	3			
Post Splicer	1/4-20 x 3/4 HHMS Gr. 5 1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Hex Nut	4 4 8	Long Parts Frame	Hardware Pack #334 includes: 1/4-20 x 1 Slotted THMS 1/4-20 Hex Nut 5/15-18 x 5/8 Hex Head Cap Screw 5/16-18 Square Nut 5/16 Shakeproof Washers	 4 4 4 4 4	Mezzanine Beam	None	-
Post Splicer Bar	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Keps Nut	6 6				Mezzanine Bracket Angle & Beaded	1/4-20 x 1 HHMS Gr. 5 1/4-20 Keps Nut	5 5
Post Splicer Plate	1/4-20 x 5/8 HHMS Gr. 5 1/4-20 Keps Nut	8 8				Catwalk Beams Angle & Beaded	1/4-20 Keps Nut 1/4-20 x 1 HHMS Gr. 5	4 4
Beaded Post Splice Kit	1/4-20 Keps Nut 1/4-20 x 5/8 HHMS Gr. 5 10-24 x 1/2 Rolok Screw Splicer Bar Beaded Post Splicer	4 4 8 1 1	Spacer Rods	None	-	Face Aisle Cap Beam	1/4-20 Keps Nut 1/4-20 x 3" Hex Head Cap Screw	2 2
			Boltless Hang Rods	None	-			
			Shelf Box	None	-			



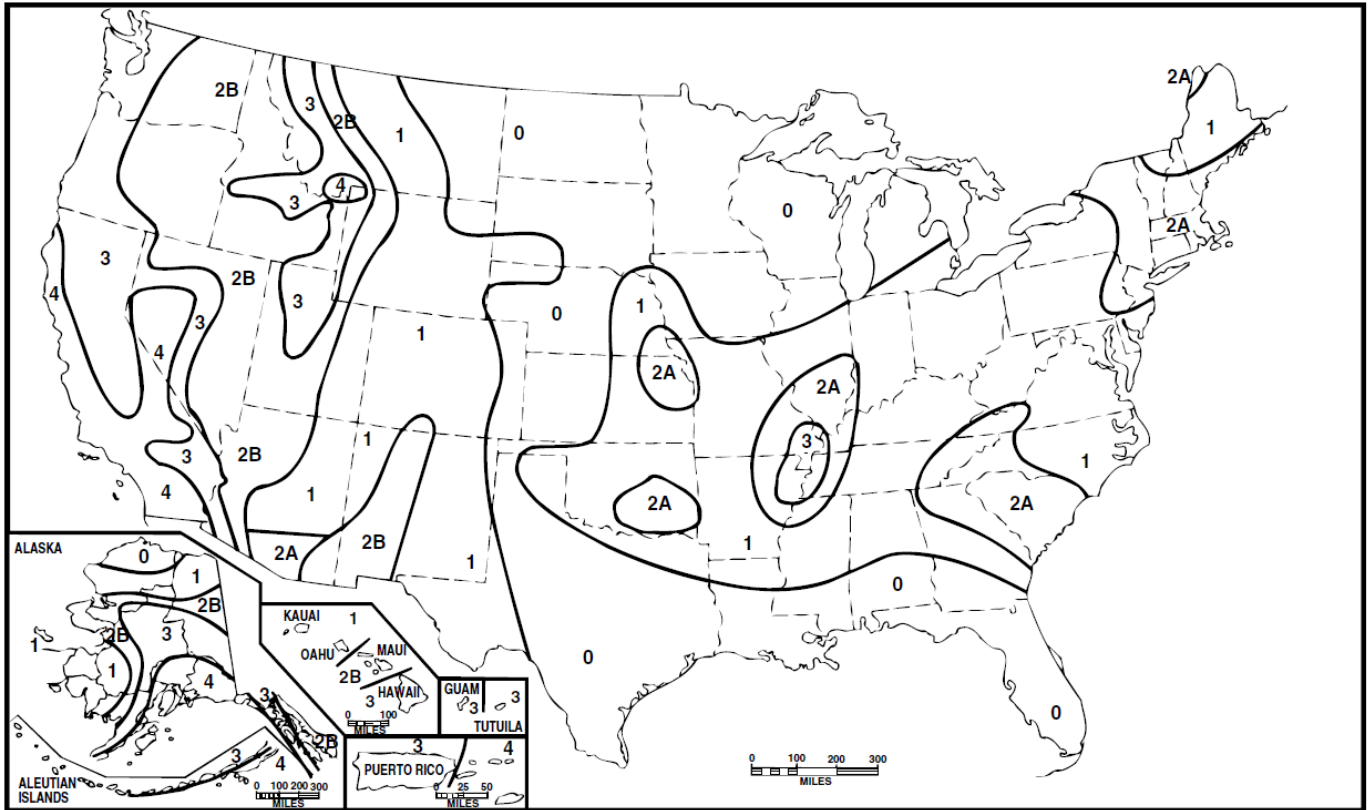
HARDWARE REQUIREMENTS CON'T

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

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	-			
						Citation 0618	Same as Citation 0612	
Box Edge Shelves	Shelf Brackets (09531-099-330)	4	Framed Swing Door	Hardware Pack #414 includes:				
				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	-		1/4-20 Hex Nut	6			
Support - Boltless (pair)				Saddle Reinforcement	1			
				#8-32 x 5/16 Sems Screw	2			
Shelf Divider	None	-		Screw #14 x 3/4 Hex				
Sliding				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 $15/32''^{+1/32''}_{-0''}$
 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 $\frac{1}{4}'' \pm 1/16''$

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 $\frac{1}{2}'$ 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 is 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

Size	BOX EDGE PLUS® 1 Shelf Capacity	BOX EDGE PLUS® 2 Shelf Capacity	BOX EDGE PLUS® 3 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:

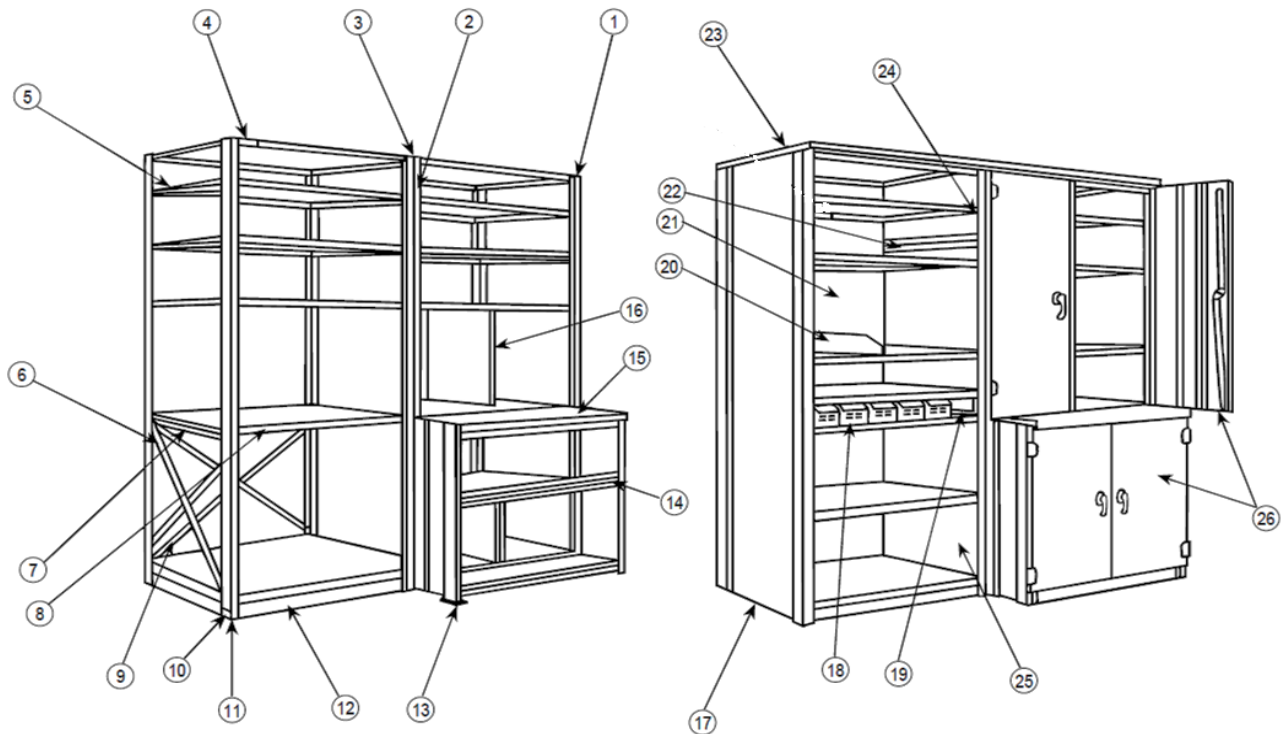
Wall, floor or top tie anchoring is recommended for units when the height to depth ratio exceeds 4.

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 | 10 ... Post Foot Angle | 19 ... Shelf Box Guide |
| 2 Post Cover - Type 2 | 11 ... Post Cover - Type 1 | 20 ... Angle Shelf Divider |
| 3 Angle Post (2) | 12 ... Base Strip | 21 ... Shelving Back |
| 4 Face Brace | 13 ... Front Foot Plate | 22 ... Flush Bar |
| 5 Box Edge Plus® Shelf | 14 ... Bin Front | 23 ... Cornice Top |
| 6 Side Cross Brace | 15 ... Ledge Top | 24 ... Shelf Bracket Clip |
| 7 Side Shelf Support | 16 ... Fixed Shelf Divider | 25 ... Angle Post Closed Side and Angle Post (2) |
| 8 Label Holder | 17 ... Angle Post Closed Side | 26 ... Framed Swing Doors |
| 9 Back Cross Brace | 18 ... Shelf Box | |

OPEN TYPE SHELVING

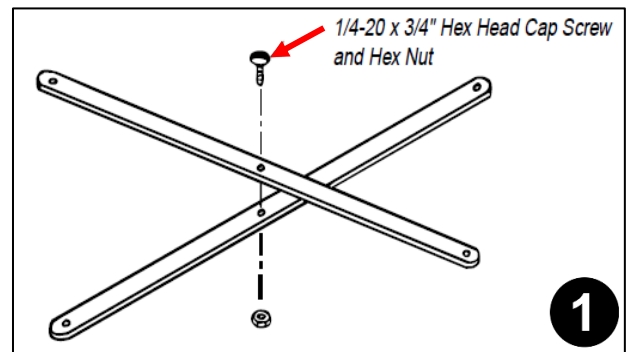
STEPS

Sway Brace Assembly

- 1** 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 x 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.



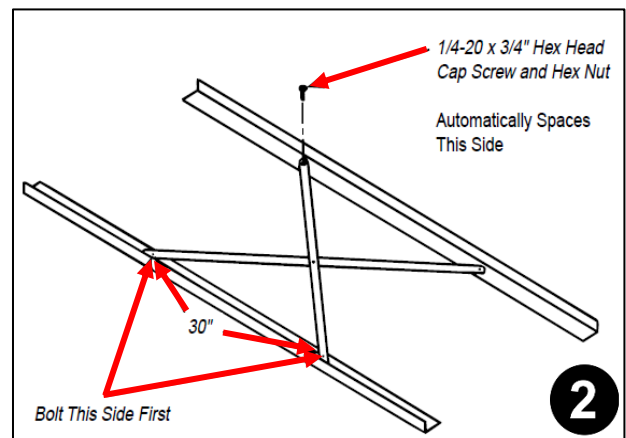
Row Ends Upright Assembly

- 2** 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.

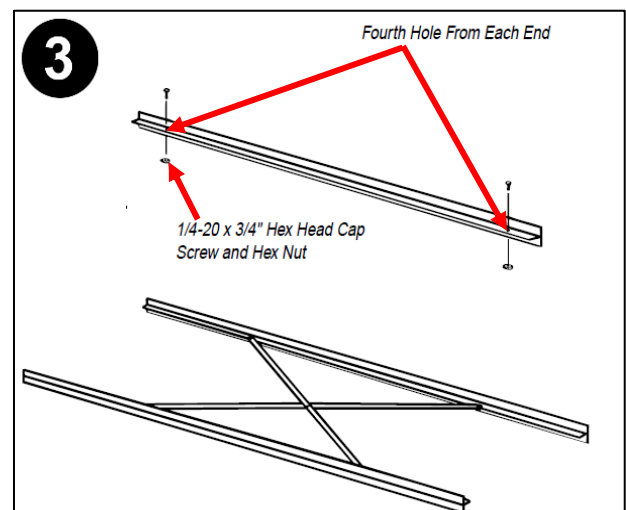
NOTE: All back and side sway braces are attached to uprights at 30 inches vertical spacing.

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



Intermediate Upright Assembly

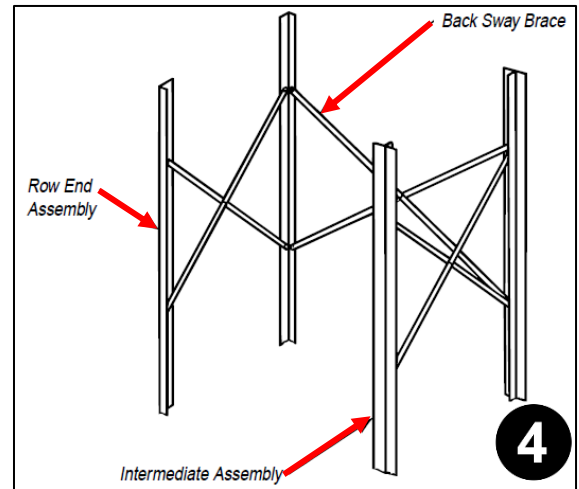
- 3** Determine from floor plan how many intermediate upright assemblies will be required. Each intermediate consists of four angle posts and one (1) pair of side sway braces. Bolt two (2) posts together (through the fourth (4th) hole from each end, in the long flange) to form a "T" post. Repeat with 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

- 4** 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.

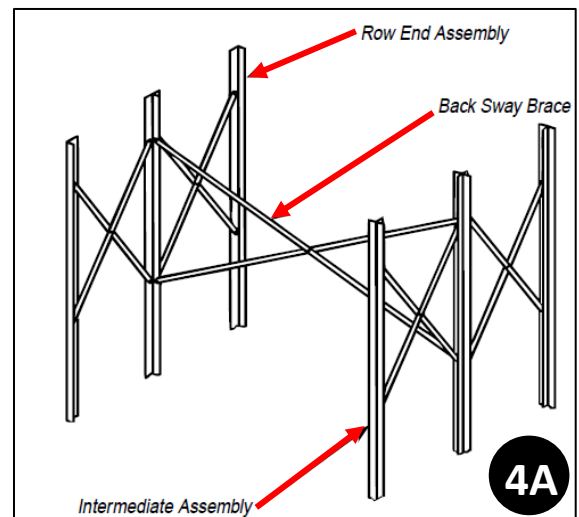
DO NOT TIGHTEN BOLTS!



Double Row – Double Face Assembly

- 4A** In assembly of a double row – double face, begin with two (2) row 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 (4th) 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)

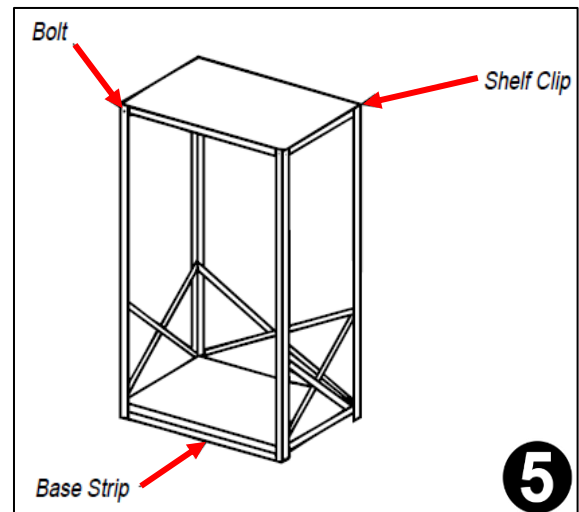
DO NOT TIGHTEN BOLTS!



Base Strip Attachment

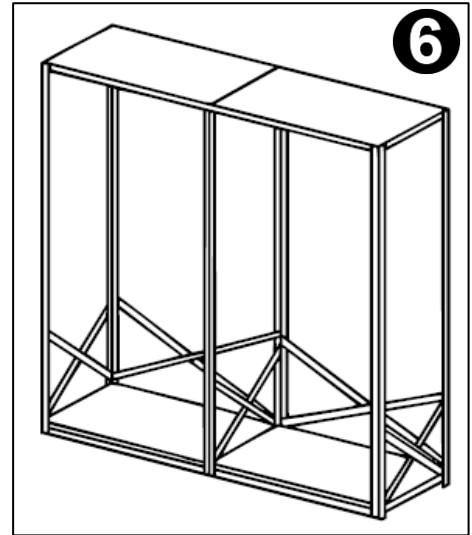
- 5** If a base strip is used, bolt it into place behind front of upright assemblies, as shown. The four bottom shelf clips are hung, and bottom shelf is set in place. The top shelf should now be installed using clips in back and bolts through the front face of upright and shelf. If a base strip is not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

- 6** 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.

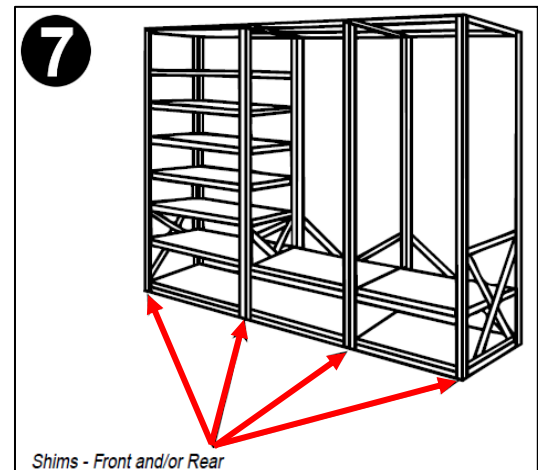


Section Leveling

- 7** 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

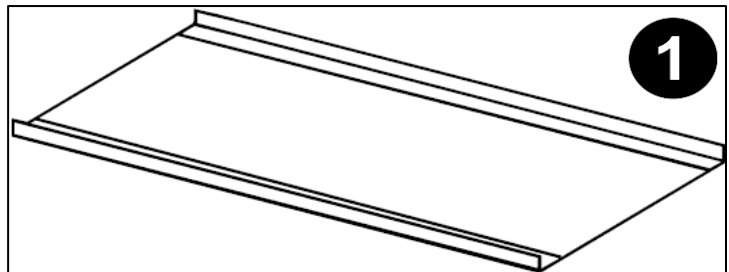
- 8** Tighten all bolts and add intermediate shelves to complete the sections.

CLOSED TYPE SHELVING

STEPS

Row End – Closed Upright Assembly

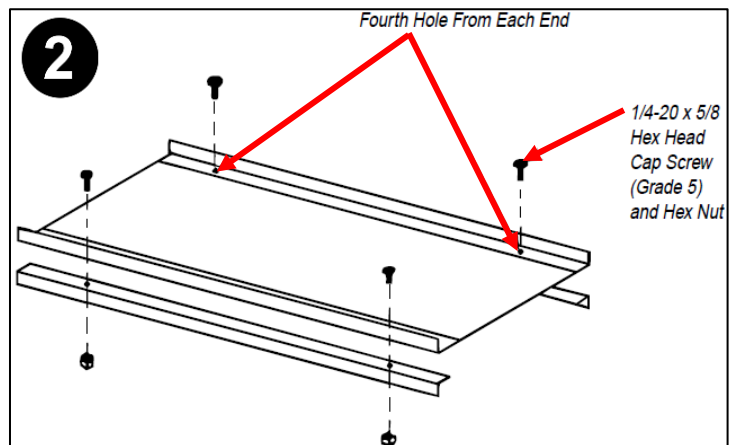
- 1** After material has been distributed to proper location, determine from floor plan how many row end – closed upright assemblies and intermediate – closed upright assemblies will be required. The row ends exist as received, two (2) angle posts welded to a side panel. Set aside the required amount.



Intermediate - Closed Upright Assembly

- 2** Assemble intermediate – closed upright assemblies by bolting two (2) * angle posts to closed upright assemblies to form a “T” (bolt through fourth (4th) 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.

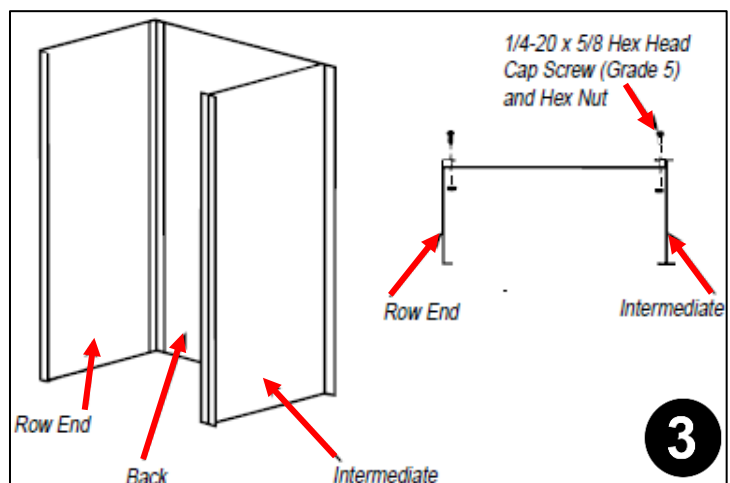


Single Row – Single Face Assembly

- 3** 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 (4th) 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.



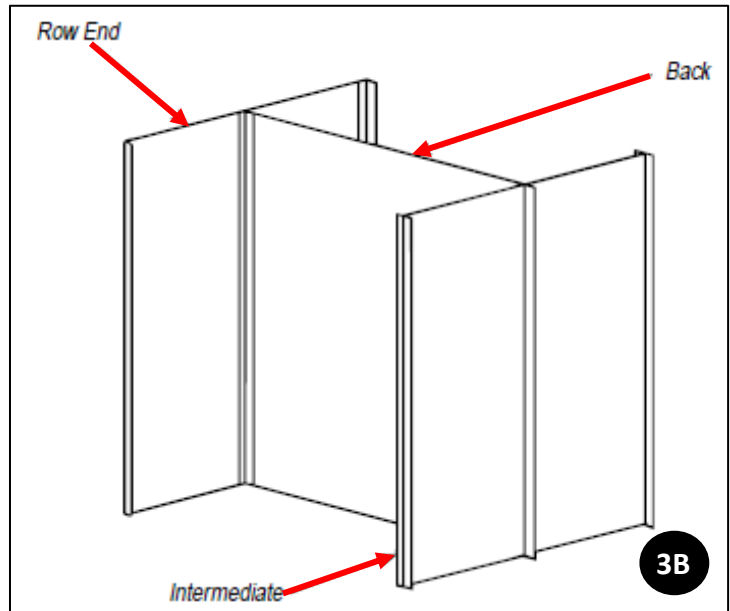
Double Row – Double Face Assembly

3B

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 (4th) 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.



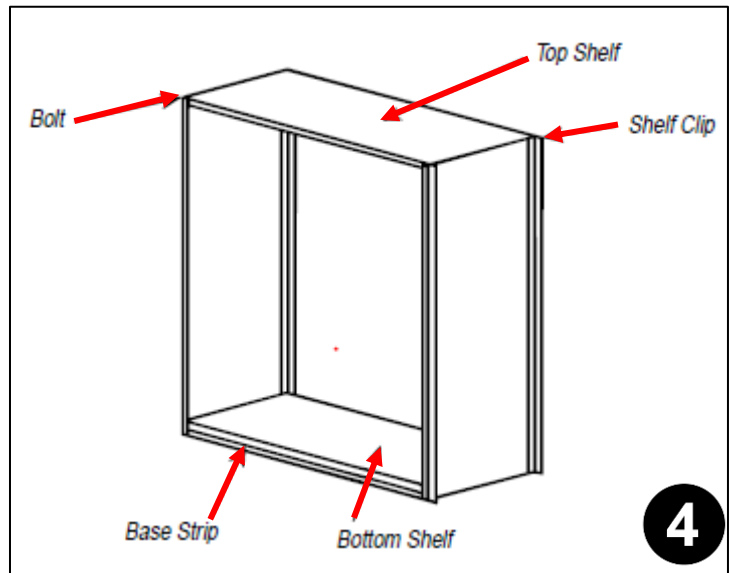
Base Strip Attachment

4

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.

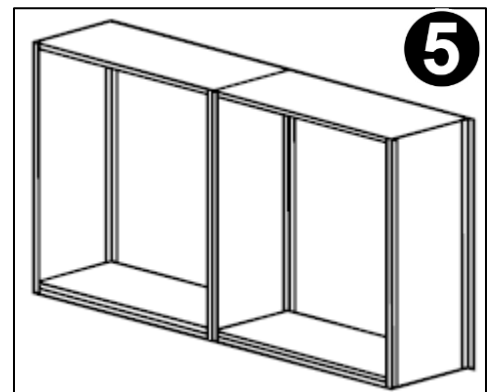
NOTE: Bolt top shelf at front and back on row ends.



Row Assembly

5

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

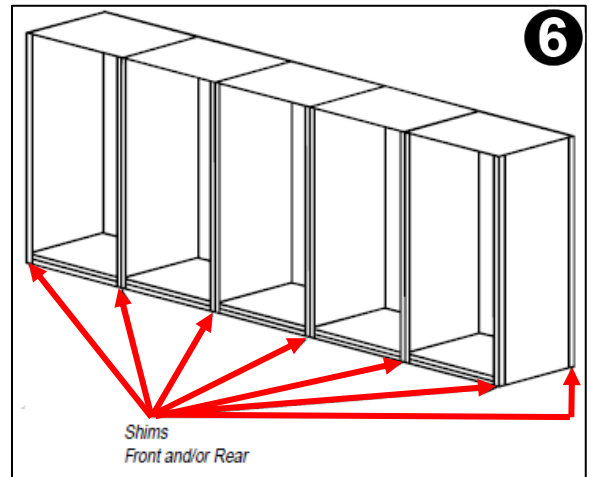
- 6** Where required, level sections with shims to cause each upright assembly to be plum within 1/10 inch per foot of height.



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

Tighten all Bolts

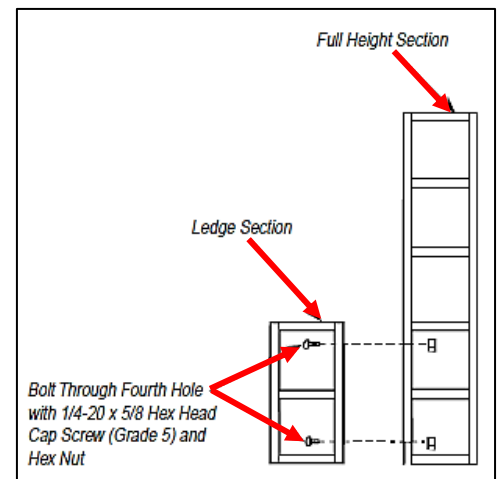
- 7** Tighten all bolts and add intermediate shelves to complete the sections.



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 (4th) hole from each end.

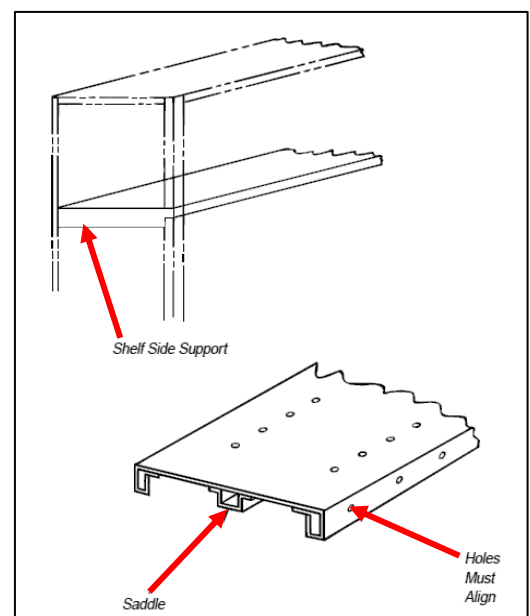


Shelf Side Supports

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

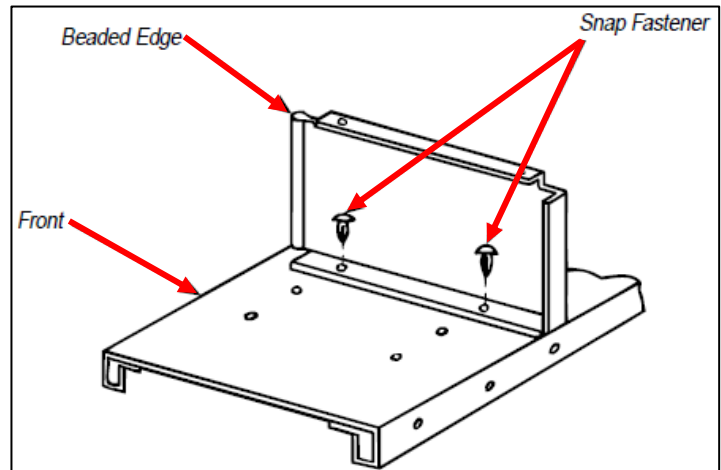
Shelf Reinforcement Saddles

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.

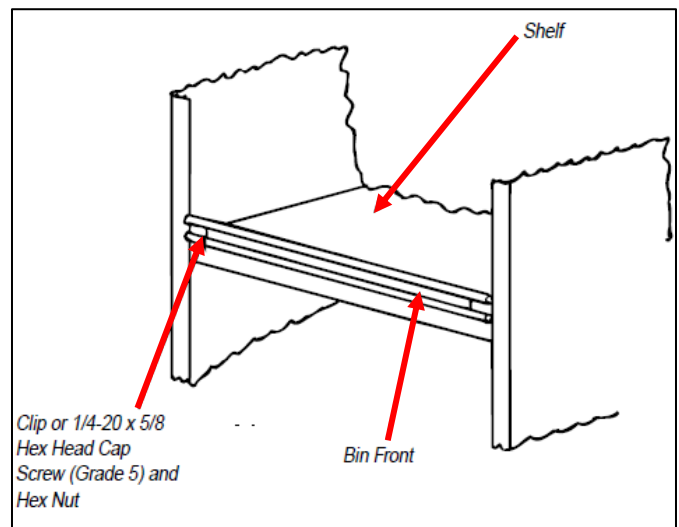


Bin Fronts and Clips

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 bolt-on clips may be used.



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



WARRANTY

Borroughs Corporation extends to the original purchaser from the date of purchase a limited lifetime warranty for Borroughs' Automotive Workstations and Modular Drawer Cabinets 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. This warranty applies only to Borroughs products acquired directly from Borroughs Corporation or from Authorized Borroughs Dealers.

This warranty does not apply to any product which has been subject to misuse, negligence, or accident; has been damaged in shipment, storage, or installation; has been misapplied or has been modified or repaired by unauthorized persons or been repaired with non-standard Borroughs replacement parts. This warranty specifically excludes claims for indirect, incidental, or consequential damages arising in any way from a product defect. This warranty is exclusive, and exists in lieu of all other warranties, either expressed or implied.

This warranty gives you specific legal rights; you may also have other rights which may vary from state to state.

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 Corporation, Customer Service Manager
3002 N. Burdick St., Kalamazoo, MI 49004-3483.
Phone: 1-800-748-0227