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:

- **CAUTION**: This symbol is used to address practices not related to personal injury.

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

- **NOTICE**: 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

---

**Light Loading**
Both single and double rows may use sway braces as in Figures 1 and 2. The end and back of the first and last section of each row always contains a sway brace. Every other intermediate and every other back should contain a sway brace. The height location of the sway brace is determined as in Figure 3, where the center line of the cross is “height divider by 2” up from the bottom.

---

**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.

---

**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

Light Loading
For light load, 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.

Failure to follow these sway bracing recommendations could result in an improper installation, shelving collapse, personal injury and/or commodity loss.

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”)

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.
# HARDWARE REQUIREMENTS

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Hardware Included</th>
<th>Pieces Req'd</th>
<th>Part Name</th>
<th>Hardware Included</th>
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<td>Shelf Divider Angle</td>
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**HARDWARE REQUIREMENTS CON’T**

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## HARDWARE REQUIREMENTS CON’T

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<th>Component Description</th>
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Citation: Same as Citation 0612
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”
Actual angle post unit width is the nominal width +1/16”
Actual high-rise post unit width is the nominal width plus 2” +1/16”

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”
with beaded post in front and angle post in back
Actual angle post unit depth is the nominal depth +1/32”
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 ¼” ±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 ratio 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” per unit plus ½’ for each row end
Actual length of angle post shelving run in nominal unit width +1/16” per unit
Actual length of high-rise post shelving run is nominal unit width +1/16” 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

![Shelf Capacities Table]

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

Example: A 7’8¾” 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”.

[All information is subject to change without notice]
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

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) 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 (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.

*WARNING*

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.

WARNING FAILURE TO LEVEL SECTIONS COULD RESULT IN SHELVING COLLAPSE, PERSONAL INJUST 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