INDUSTRIAL SHELVING DETAILS

**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:** Refer to page 51-53 for complete list.

**Tools Required:**

- 7/16”
- 9/16”
- Socket Sizes
- 7/16”, 9/16”
BRACE ASSEMBLY

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GD 5)
IN SINGLE SHEAR

SECTION A - A
ROTTED 180°

BEADED POST OR ANGLE POST ASSEMBLY

.375

BRACE

.343 DIA.

.375

.750

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GD 5)

Ø KEPS NUT

BRACE DETAIL
(LENGTH VARIES)
ANGLE POST BACK BRACE

1/4-20 HEX NUT

30°

ANGLE POST

1/4 - 20 X 5/8
HEX HEAD
CAP SCREW (GO 5)
FACE BRACE W/BEADED POST & BOX EDGE SHELF

SHELF

BEADED POST

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GO 5)

FACE BRACE ASSY

1/4-20 X 9/16 PH. PAN HD. S.D.S.
FACE BRACE W/ANGLE POST & BOX EDGE SHELF
CLOSED SIDE ASSEMBLY

- Sheet
- Back-angle post
- Front-beaded or angle post
- Welded on 6" centers
NOTE: PANEL TO BE INSTALLED INSIDE OF ANGLE POST
SHELF CLIP
FOOTPLATE – BACK-TO-BACK W/ANGLE POSTS

- ANGLE POSTS
- FOOTPLATE
- LAGGING HOLES

1/4-20 KEPS NUT

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GD 5)
BASE STRIP W/BEADED POST

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GO 5)

BASE STRIP W/BEADED POST

1/4-20 KEPS NUT
FRONT PLATE WELDMENT & BEADED POST ASSEMBLY

BEADED POST SPLICE
SPLICER KIT W/BEADED POSTS

1/4-20 KEPS NUT
BEADED POST

1/4-20 x 5/8 HEX HEAD CAP SCREW (GO 5)

FRONT PLATE
CENTER BAR

#10-24 x 1/2 ROLOK SCREW
ANGLE POST

**Diagram:**

- **0.156" Splice Plate**
- **2 Angle Posts**
- **1/4 - 20 x 5/8 Hex Head Cap Screw (Go 5)**
- **& KEPS Nut**
- **(4 Req'd: 2 on Top Post & 2 on Bottom Post)**

**Dimensions:**

- 2.250
- 1.000

**Diagram:**

- **0.156" Splice Plate**
- **4 Angle Posts**
- **2.000**
- **2.250**
- **4.500**
CORNER SPLICER

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GO 5)

1/4-20 KEPS NUT
SPLICER BARS W/BACK-TO-BACK ANGLE POSTS (2)
SPLICER BARS W/BACK-TO-BACK ANGLE POSTS (4)
BEADED POST MEZZANINE BRACKET & BEADED POST ASSEMBLY

- Bracket
- Beaded Post Assembly

1/4 - 20 x 5/8 Hex Head Cap Screw (Go 5)
φ Keps Nut
(2 Req'd. of each per bracket)
BEADED POST MEZZANINE SUPPORT BEAM & BRACKET W/BEADED POST

1/4-20 X 1" GR 5 HT HEX HD CAP SCREW

1/4-20 KEP'S NUT
ANGLE POST MEZZANINE BRACKET & ANGLE POST ASSEMBLY

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GD 5)
Φ KEPS/NUT
(2 REG'D. EA. PER BRACKET)

BRACKET

TEE POST ASSEMBLY
CAP MEZZANINE SYSTEM BEADED POST FACE AISLE BEAM ASSEMBLY

1/4-20 X 3" GRADE 5 HT HEX HEAD CAP SCREW (1) REQUIRED

1/4-20 HEX NUT

FACE AISLE BEAM

BEADED POST

BEADED POST
CAP MEZZANINE SYSTEM ANGLE "T" POST FACE AISLE BEAM ASSEMBLY

1/4-20 KEPS NUT (1) REQUIRED

1/4-20 X 3" GRADE 5 HT HEX HEAD CAP SCREW (1) REQUIRED
CAP MEZZANINE SYSTEM HIGH RISE – BEADED POST FACE AISLE BEAM ASSEMBLY
CAP MEZZANINE SYSTEM HIGH RISE – ANGLE “T” POST FACE AISLE BEAM ASSEMBLY
CAP MEZZANINE SYSTEM ANGLE “T” POST - OUTSIDE AISLE BEAM ASSEMBLY

1/4-20 HEX NUT (1) REQUIRED

OUTSIDE AISLE CAP BEAM

1/4-20 X 3" GRADE 5 HT HEX HEAD CAP SCREW (1) REQUIRED
CAP MEZZANINE SYSTEM ANGLE “T” POST – SINGLE FACE BACK CAP ASSEMBLY

1/4 - 20 KEPS NUT (1) REQUIRED

1/4 - 20 x 3" GRACE B HT HEX HEAD CAP SCREW (1) REQUIRED
CAP MEZZANINE SYSTEM ANGLE POST – BACK-TO-BACK CAP ASSEMBLY

BACK-TO-BACK 'T' POSTS

1/4 – 20 HEX NUT
(2) REQUIRED

BACK-TO-BACK CHANNEL CAP

1/4-20 X 3" GRADE 5 HT HEX HEAD CAP SCREW
(6) REQUIRED

BACK-TO-BACK 'T' POSTS
CAP MEZZANINE SYSTEM BACK-TO-BACK CAP ASSEMBLY W/BACK PANELS (ROW END)
CAP MEZZANINE SYSTEM BACK-TO-BACK CAP ASSEMBLY W/BACK PANELS (INTERMEDIATE)

BACK-TO-BACK "T" POSTS
BACK PANEL

1/4 - 20 KEPS NUT
(2) REQUIRED

BACK-TO-BACK CHANNEL CAP

1/4-20 X 3" GRADE 5 HT
HEX HEAD CAP SCREW
(2) REQUIRED

BACK-TO-BACK "T" POSTS
BACK PANEL
NOTE -
BOLT SPLICE CHANNEL TO UPPER ANGLE POST IN (2) PLACES THAT DO NOT INTERFERE WITH SHELVES.

1/4-20 X 1-1/4 HEX HD CAP SCREW (3) REQUIRED

1/4 - 20 KIPS NUT (4) REQUIRED

1/4-20 X 2" GRADE 5 HT HEX HEAD CAP SCREW (2) REQUIRED

"T" POST

FADE AISLE BEAM

SPLICE CHANNEL

ANGLE POST
CAP MEZZANINE SYSTEM ANGLE POST SINGLE FACE BACK CAP ASSEMBLY W/ROW END CORNER SPLICE CHANNEL

NOTE:
BOLT SPLICE CHANNEL TO UPPER 'T' POST IN (3) PLACES THAT DO NOT INTERFERENCE WITH SHELVES.

1/4-20 X 1-1/4 HEX HD CAP SCREW (3) REQUIRED

"T" POST

1/4-20 KEPS NUT (4) REQUIRED

SPLICE CHANNEL

SINGLE FACE BACK CAP

1/4-20 X 3" GRADE 5 HT HEX HEAD CAP SCREW (1) REQUIRED

"T" POST
CAP MEZZANINE SYSTEM ANGLE POST FACE AISLE BEAM ASSEMBLY W/SINGLE FACE ATTACHMENT BRACKET
CAP MEZZANINE SYSTEM ANGLE "T" POST FACE AISLE BEAM ASSEMBLY W/SINGLE FACE ATTACHMENT BRACKET

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GO S) WITH 1/4-20 HEX NUT (1) REQUIRED

1/4 - 20 HEX NUT (1) REQUIRED

ATTACHING BRACKET

FACE AISLE BEAM

1/4-20 X 3' GRADE 5 HT HEX HEAD CAP SCREW (1) REQUIRED
HIGH RISE – ANGLE POST SIDE PANEL INSTALLATION

NOTE:
1. FASTEN SIDE PANEL TO EACH POST EVERY 16”.
2. BOLT SIDE PANEL TO OUTSIDE UP UNIT.

ANGLE POST

SIDE PANEL

1/4-20 KEPS NUT

1/4- 20 X 5/8 HEX HEAD CAP SCREW (GD 5)
HIGH RISE POST SIDE PANEL INSTALLATION

NOTE:
1. FASTEN SIDE PANEL TO EACH POST EVERY 18".
2. BOLT SIDE PANEL TO OUTSIDE OF UNIT.
HIGH RISE POST W/ BASE STRIP

HIGH RISE POST

BASE STRIP

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GO 5)

BASE STRIP

1/4-20 KEPS NUT
HIGH RISE POST W/FOOTPLATE

HIGH RISE POST W/FOOTPLATE – BACK-TO-BACK

1/4-20 KEPS NUT

FOOTPLATE

LAGGING HOLES

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GO 5)

HIGH RISE POST

FOOTPLATE

LAGGING HOLES

1/4 - 20 x 5/8 HEX HEAD CAP SCREW (GO 5)
HIGH RISE POST W/BACK ATTACHMENT BRACKETS

HIGH RISE POSTS

BACK ATTACHMENT BRACKETS

1/4-20 KEPS NUTS

BACK PANEL

1/4-20 X 1" T.H. MACH. SCREWS

1/4 - 20 X 5/8 HEX HEAD CAP SCREW (GD 5)
HIGH RISE POST W/SPLICER KIT
CATWALK BEAM – ANGLE POST

ANGLE POST
CATWALK BEAM

1/4-20 X 1" G05 HEX CAP SCREW

1/4-20 KEPS NUT

DOUBLE ANGLE BEAM
CATWALK BEAM – BEADED POST

1/4-20 KEPS NUT

BEADED POST OR
HIGH RISE POST

1/4 FLAT WASHER

1/4-20 X 1"
HEX HEAD
CAP SCREW (GD 5)

BEADED POST &
HIGH RISE POST
CATWALK BEAM
# 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>
<th>Pieces Req’d</th>
<th>Part Name</th>
<th>Hardware Included</th>
<th>Pieces Req’d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle Post Std. &amp; Commercial</td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>2</td>
<td>Shelf Divider Angle</td>
<td>Divider Clip (nylon) (14761-000)</td>
<td>2</td>
<td>Sliding Door Hardware Pack #48 includes:</td>
<td>Door Pulls (Plated)</td>
<td>2</td>
</tr>
<tr>
<td>Beaded Post</td>
<td>None</td>
<td>-</td>
<td>Shelf Divider Fixed</td>
<td>Divider Clip (nylon) (14761-000) Up to 24” deep</td>
<td>4</td>
<td></td>
<td>Furniture Lock (Plated)</td>
<td>1</td>
</tr>
<tr>
<td>Closed Side Angle Post</td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>4</td>
<td>Shelf Divider Support</td>
<td>None</td>
<td>-</td>
<td></td>
<td>Lock Catch (Painted)</td>
<td>1</td>
</tr>
<tr>
<td>Closed Side Beaded Post</td>
<td>None</td>
<td>-</td>
<td>Label Holder Full Length</td>
<td>Divider Clip (nylon) (14761-000)</td>
<td>3’</td>
<td></td>
<td>Ball Bearing Sheave</td>
<td>4</td>
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<tr>
<td>Post Splicer</td>
<td>1/4-20 x 3/4 HHMS Gr. 5</td>
<td>4</td>
<td>Long Parts Frame</td>
<td>Hardware Pack #334 includes: 1/4-20 x 1 Slotted THMS</td>
<td>4</td>
<td>Mezzanine Beam None</td>
<td>1/4-20 x 1 HHMS Gr. 5</td>
<td>5</td>
</tr>
<tr>
<td>Post Splicer Bar</td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>6</td>
<td>1/4-20 Hex Nut</td>
<td>Mezzanine Bracket Angle &amp; Beaded</td>
<td>4</td>
<td></td>
<td>1/4-20 Keps Nut</td>
<td>5</td>
</tr>
<tr>
<td>Post Splicer Plate</td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>8</td>
<td>5/15-18 x 5/8 Hex Head Cap Screw</td>
<td>4</td>
<td>Catwalk Beams Angle &amp; Beaded</td>
<td>1/4-20 Keps Nut</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Beaded Post Splice Kit</td>
<td>1/4-20 Keps Nut</td>
<td>4</td>
<td>5/16-18 Square Nut</td>
<td>1/4-20 x 1 HHMS Gr. 5</td>
<td>4</td>
<td>Face Aisle 1/4-20 Keps Nut</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>4</td>
<td>5/16 Shakeproof Washers</td>
<td>1/4-20 x 3” Hex Head Cap Screw</td>
<td>2</td>
<td>Cap Beam 1/4-20 x 3” Hex Head Cap Screw</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10-24 x 1/2 Rolok Screw Splicer Bar</td>
<td>8</td>
<td>Bottleless Hang Rods</td>
<td>None</td>
<td>-</td>
<td></td>
<td>1/4-20 x 3/8 Phillips THMS Screw</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Beaded Post Splicer</td>
<td>1</td>
<td>Shelf Box</td>
<td>None</td>
<td>-</td>
<td></td>
<td>#8 x 3/8 Slotted Oval Head Screw</td>
<td>4</td>
</tr>
</tbody>
</table>

All information is subject to change without notice

Borroughs Document Number: DOC-BES-0003

www.borroughs.com
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 | 2          | Cross Aisle | Cap Beam | None | 2 |
| Front and Back-to-Back Plate | 1/4-20 x 5/8 HHMS Gr. 5 | 1          | 1-1/2” Angle Post | Bin Front Clip Plated | 1/4-20 x 5/8 HHMS Gr. 5 | 2          | Outside Aisle | Cap Beam | 1/4-20 Keps Nut | 2 |
| Shim Plates | Front | None | - | Bin Front | 1/4-20 x 1 Slotted THMS | 2          | Single Face | 1/4-20 Keps Nut | 1 |
| Back | None | - | Bin Front | 3” & 6” Angle Post | 1/4-20 Hex Nut | 2          | Back Cap | 1/4-20 x 3” Hex Head Cap Screw | 2 |
| Post Foot Plate | None | - | Beaded Post | 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          | 1/4-20 Hex Nut | 2          | Single Face | 1/4-20 x 5/8 HHMS Gr. 5 | 2          | Attachment Bracket | 1/4-20 x 5/8 Hex Head Cap Screw | 2 |
| Post Cover | 10-24 Hex Nut | 6          | Bin Front | 1/4-20 x 5/8 HHMS Gr. 5 | 2          | Back-to-Back Cap | 1/4-20 Keps Nut | 2 |
| Back | Back Clip (05088-824-330) | .25        | Counter Top | None | - | Counter Top | None | - | Row End Corner | 1/4-20 Keps Nut | 3 |
| | 1/4-20 x 5/8 Gr. 5 HHMS | 10         | 1/4-20 Hex Nut | 10         | Row End | 1/4-20 x 1-1/4” HHMS Gr. 5 | 3          | Splice Channel | 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 | 1/4-20 Keps Nut | 4 |
| | 1/4-20 Hex Nut | 5          | 1/4-20 Hex Nut | 8          | Kick Plate | 1/4-20 x 1-1/2” Hex Head Cap Screw | 4 |
| Side Brace (pair) | 1/4-20 x 3/4 HHMS Gr. 5 | 5          | Tape Reel Hanger Kit | Hardware Pack #342 includes: | 2          | Row End | 1/4-20 Keps Nut | 3 |
| | 1/4-20 Hex Nut | 5          | 10-24 Keps Nut | 2          | Hardware Pack #342 includes: | 2          | Hand Rail | 1/4-20 x 3/4” THMS | 3 |
| Face Brace | 1/4-20 x 5/8 HHMS Gr. 5 | 6          | Print-out Hanger | Hardware Pack #342 includes: | 2          | Citation 0612 | Hardware Pack #251 includes: | 2 |
## HARDWARE REQUIREMENTS CON’T

<table>
<thead>
<tr>
<th>Item</th>
<th>Requirement</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Face Tape</td>
<td>.075 ft.</td>
<td></td>
</tr>
<tr>
<td>Base Strip</td>
<td>1/4-20 x 5/8 HHMS Gr. 5</td>
<td>2</td>
</tr>
<tr>
<td>Angle &amp; Beaded</td>
<td>1/4-20 Hex Nut</td>
<td>2</td>
</tr>
<tr>
<td>Box Edge Shelves</td>
<td>Shelf Brackets (09531-099-330)</td>
<td>4</td>
</tr>
<tr>
<td>Shelf Saddle</td>
<td>None</td>
<td>-</td>
</tr>
<tr>
<td>Shelf Saddle Support - Boltless</td>
<td>None</td>
<td>-</td>
</tr>
<tr>
<td>(pair)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelf Divider Sliding</td>
<td>None</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Requirement</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24 Keps Nut</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>10-24 x 3/8 Phillips THMS</td>
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<td>2</td>
</tr>
<tr>
<td>1/4-20 Hex Nut</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Shelf Brackets</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>1/4-20 x 5/8 PHMS</td>
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<td>21</td>
</tr>
</tbody>
</table>

**Box Edge Shelves**

**Framed Swing Door**

Hardware Pack #414 includes:
- Handle with Lock and 2 Keys: 1
- Push Clip: 1
- Handle Reinforcement: 1
- Cam Ind. Double Door: 1
- 1/4-20 x 5/8 HHMS: 6
- 1/4-20 Hex Nut: 6
- Saddle Reinforcement: 1
- #6-32 x 5/16 Sems Screw: 2
- Screw #14 x 3/4 Hex: 6
- Washer Head Self Drilling: 6

**Citation 0618**

Same as Citation 0612
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 3" 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.

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

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. Pull 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

NOTE: FOR CRITICAL SHELF LOCATIONS, MINOR CHANGES TO THESE RECOMMENDATIONS ARE ACCEPTABLE.

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”)

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

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 Boroughs 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