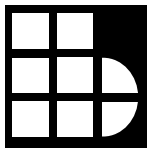
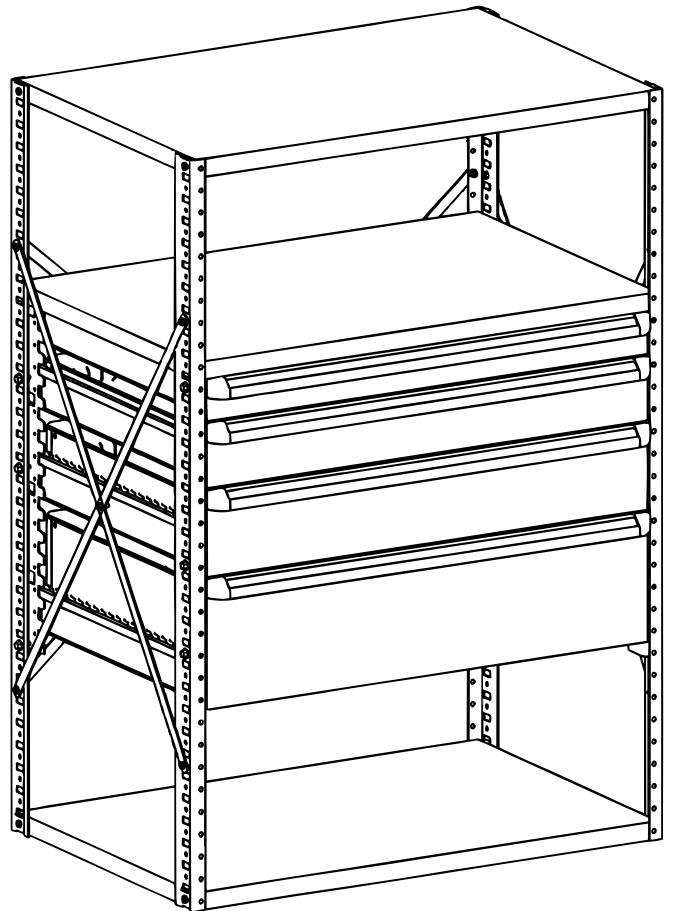
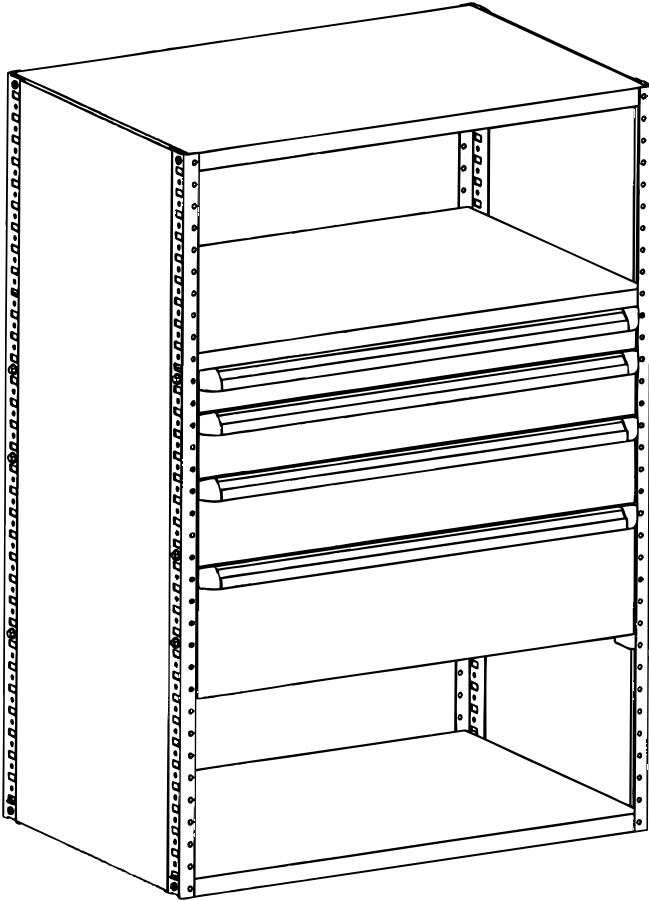


High-Density Industrial Drawers Installation Instructions



Borroughs

CORPORATION

3002 N. BURDICK STREET ■ KALAMAZOO, MI 49004-3483
800-748-0227 ■ FAX: 269-342-4161 ■ www.borroughs.com

05-50594-00A
April 2002

Industrial Drawer Installation Instructions

IMPORTANT PRODUCT LIABILITY INFORMATION

Read all instructions before proceeding with installation or drawer loading. Vital product information pertaining to proper set-up and cautions are included. Failure to follow these instructions may cause shelving failure which may result in personal injury or property damage.

RETAIN THIS MANUAL FOR FUTURE REFERENCE

DANGER

A shelving unit with drawers can tip over if improperly used, improperly loaded or if unit has not been properly anchored.

Anchoring Instructions:

- Single shelving units must have all four posts anchored directly to the floor.
- Single face shelving rows must be anchored on all rear posts and every two front posts.
- Double face shelving rows must be anchored on alternating front and rear posts.

CAUTION: These drawers contain no interlocking drawer mechanism that prevents more than one drawer to be open at a time. Exercise extreme caution in opening drawers when fully loaded or opening more than one drawer at a time.

Tools required to complete installation successfully:

7/16" Deep-well Socket and Ratchet
Two 7/16" Open Box-End Wrenches
Phillips Screwdriver

Hardware List:

Description	Quantity Required
Shelf Spacer	Four (4) per Shelf
1/4-20 x 5/8 Hex Head Grade 5 Capscrew	Four (4) per Shelf
1/4-20 x 3/4 Hex Head Grade 5 Capscrew	Three (3) per Mounting Upright
1/4-20 Keps Nut	One (1) per Capscrew above
1/4-20 x 5/8 Phillips Pan Head Thread-Forming Screw	One (1) per Slide
#10-32 x 1/4 Phillips Pan Head Thread-Forming Screw	Two (2) per Drawer
Drawer Label	One (1) per Drawer
Label Cover	One (1) per Drawer

The following instructions are to be performed in association with the Steel Shelving Installation Instructions (Part Number 50000-00).

If installing drawers in only one unit – or – into a unit at the end of a run of shelving, proceed to Step 1.

If installing drawers into one or more adjacent shelving units, skip Step 1 and proceed to Step 2.

Step 1: Installing the Mounting Uprights

Once the Borroughs' shelving unit(s) have been assembled:

1. Mount the front and rear mounting uprights with the notched portion facing the inside of the unit. (See Figure 1)

NOTE: REAR mounting uprights are designed with back panel / back brace attachment screw clearance holes in rear face. FRONT mounting uprights do not have these clearance holes.

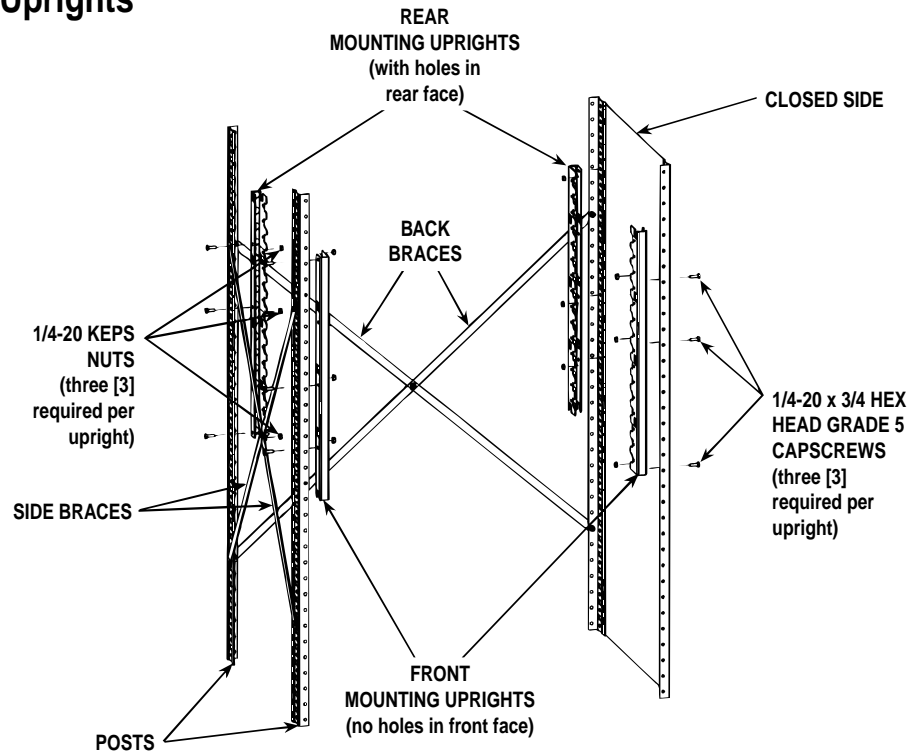


FIGURE 1

2. Position the mounting upright on the inside of the post. If there is interference with attachment screws of side braces, reattach the side braces to the outside of post for only one unit or to the inside of mounting uprights for any run of shelving units. (See Figure 1.1)

NOTE: Do NOT reattach side braces at post holes IMMEDIATELY above installed mounting uprights. These holes will be used for bolting a shelf in place in Step 3.

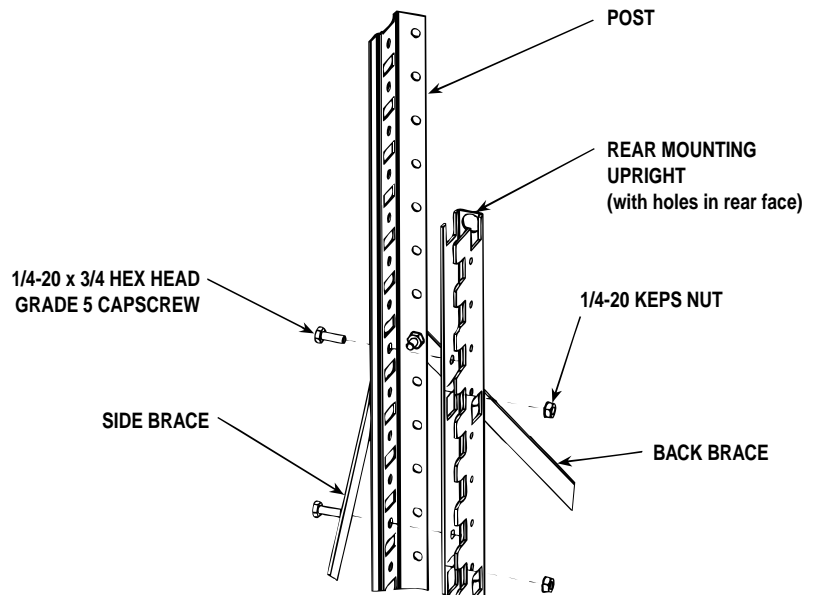


FIGURE 1.1

- Attach the mounting uprights with three (3) 1/4-20 x 3/4 Hex Head Grade 5 Capscrews and 1/4-20 Keps Nuts. Start the screws from the outside of the post then through the mounting upright. (See Figure 1). Proceed to Step 3.

NOTE: The holes on the mounting uprights opposite the socket wrench access slots are clearance holes for these 1/4-20 x 3/4 Grade 5 screws. These clearance holes are used for side-by-side drawer units - See Step 2.

NOTE: DO NOT OVERTIGHTEN SCREWS. Overtightening these screws may damage both the screws and the Keps nuts.

Step 2: Installing the Mounting Uprights for Units with Drawers in Adjacent Units

Once the Borroughs' shelving unit(s) have been assembled:

- Mount the front and rear mounting uprights with the notched portion facing the inside of the unit. (See Figure 2)

NOTE: REAR mounting uprights are designed with back panel / back brace attachment screw clearance holes in rear face. FRONT mounting uprights do not have these clearance holes.

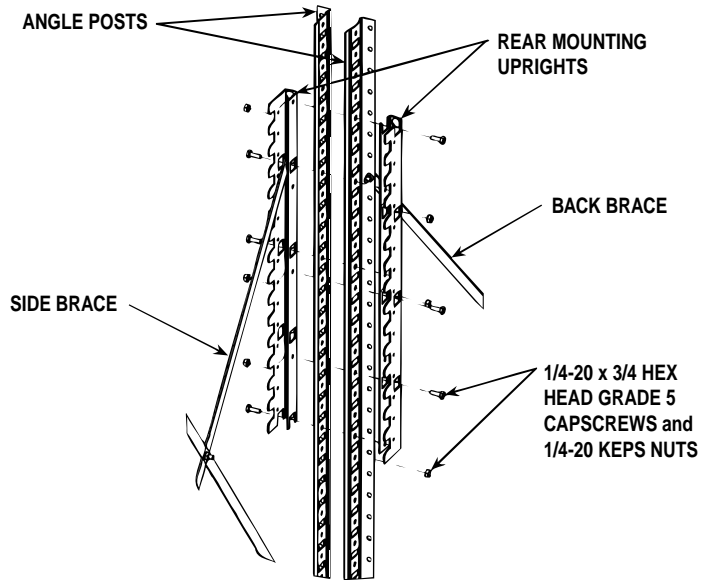


FIGURE 2

- Position the mounting upright on the inside of the post. If there is interference with attachment screws of side braces, reattach the side braces to the inside of mounting uprights. (See Figure 2.1)

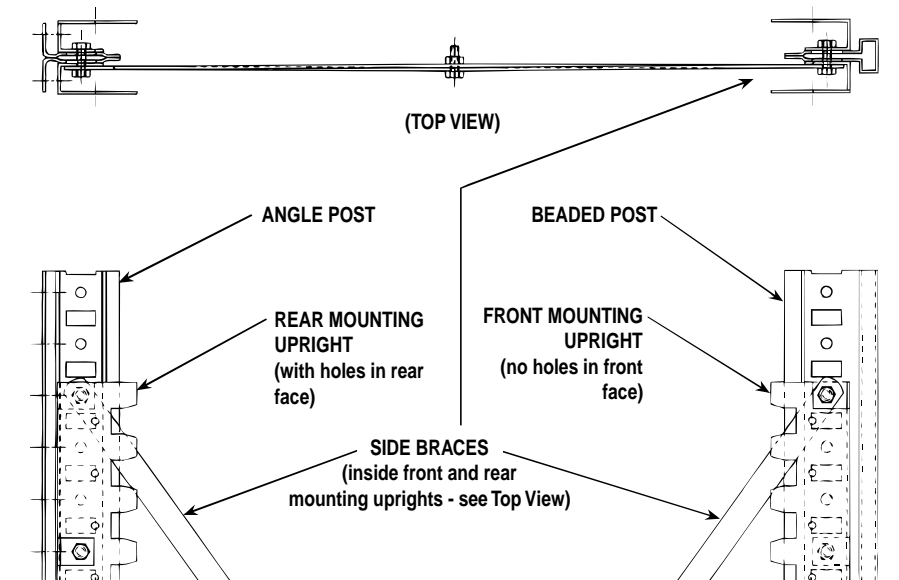


FIGURE 2.1

NOTE: Do NOT reattach side braces at post holes IMMEDIATELY above installed mounting uprights. These holes will be used for bolting a shelf in place in Step 3.

- Attach the mounting uprights with three (3) 1/4-20 x 3/4 Hex Head Grade 5 Capscrews and 1/4-20 Keps Nuts. Start the screws from the inside of one unit going through one of the socket wrench access slots of the mounting upright, through the post(s) and then into clearance holes of mounting upright on the opposite side. (See Figure 2.1). Be sure to use no less than three (3) screws from each side for a total of six (6) screws through each pair of mounting uprights. Secure with Keps nuts. Proceed to Step 3.

NOTE: The holes on the mounting uprights opposite the socket wrench access slots are clearance holes for these 1/4-20 x 3/4 Grade 5 screws. These clearance holes are used for side-by-side drawers units - see Step 2.

NOTE: DO NOT OVERTIGHTEN SCREWS. Overtightening these screws may damage both the screws and Keps nuts.

Step 3: Bolting Shelves Immediately Above and Below the Mounting Uprights

- Bolt a shelf in place directly above the mounting uprights using four (4) 1/4-20 x 5/8 Hex Head Grade 5 Capscrews, four (4) 1/4-20 Keps nuts and four (4) shelf spacers.

For drawers in only one unit:

- Install the hex head screws from the outside of the unit through the post and then through the shelf. (See Figure 3)
- Thread the Keps nut onto the screw, but do not tighten.
- Insert the shelf spacer between the shelf and the post from the top and tighten Keps nut.

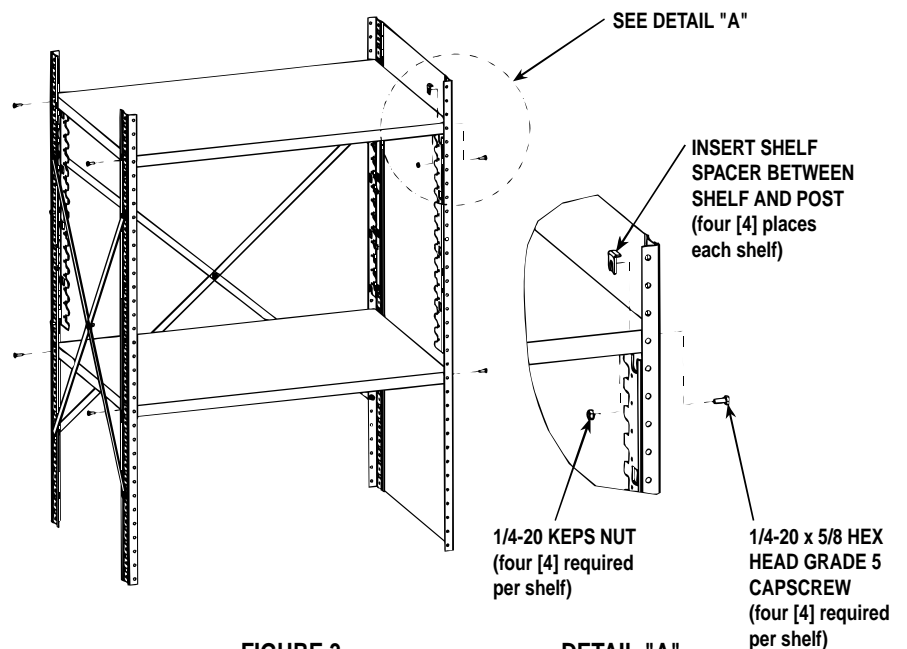


FIGURE 3

DETAIL "A"

For drawers in side-by-side units:

- Install the hex head screw from the inside of one shelf, through the post(s) and through the second shelf. (See Figure 3.1)
 - Thread the Keps nut onto the screw, but do not tighten.
 - Insert two (2) shelf spacers, one between each post and shelf. Tighten the Keps nuts.
- Repeat the above process for attaching a shelf below the mounting uprights. Proceed to Step 4.

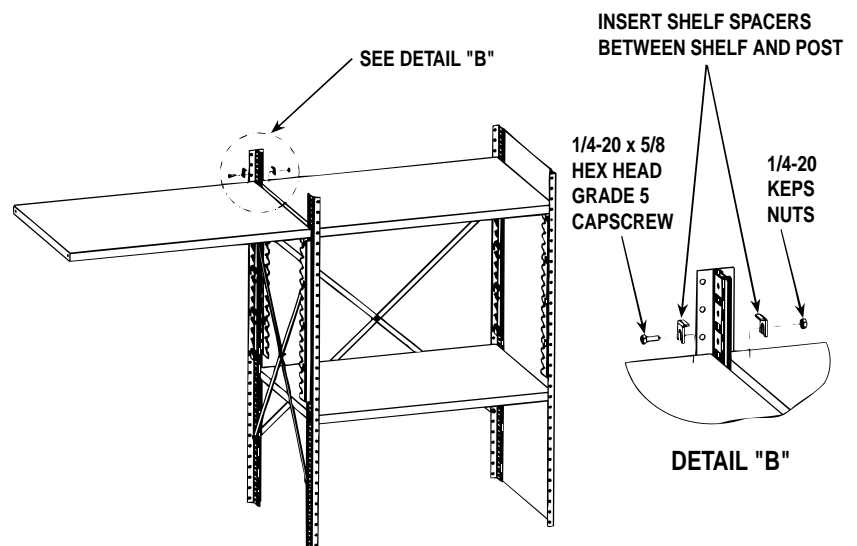


FIGURE 3.1

Step 4: Installing the Drawer Slides

1. Mount the drawer slides for the top drawer first. Mount the drawer slides to the inside of the mounting uprights. Use the following table for location of top drawer. (See Figure 4)

3" drawer	Use 1st mounting upright notch
4-1/2" drawer	Use 2nd mounting upright notch
6" drawer	Use 3rd mounting upright notch
9" drawer	Use 5th mounting upright notch

2. Insert the lance on the rear of the drawer slide into the notched section of the mounting upright. (See Figure 4.1)

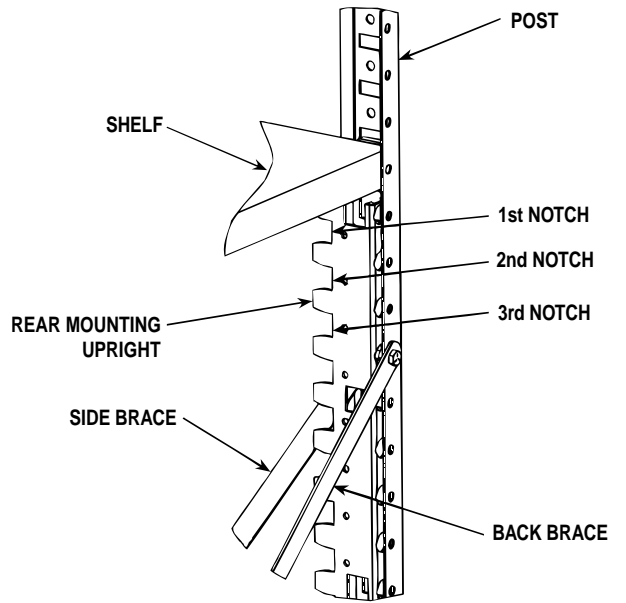


FIGURE 4

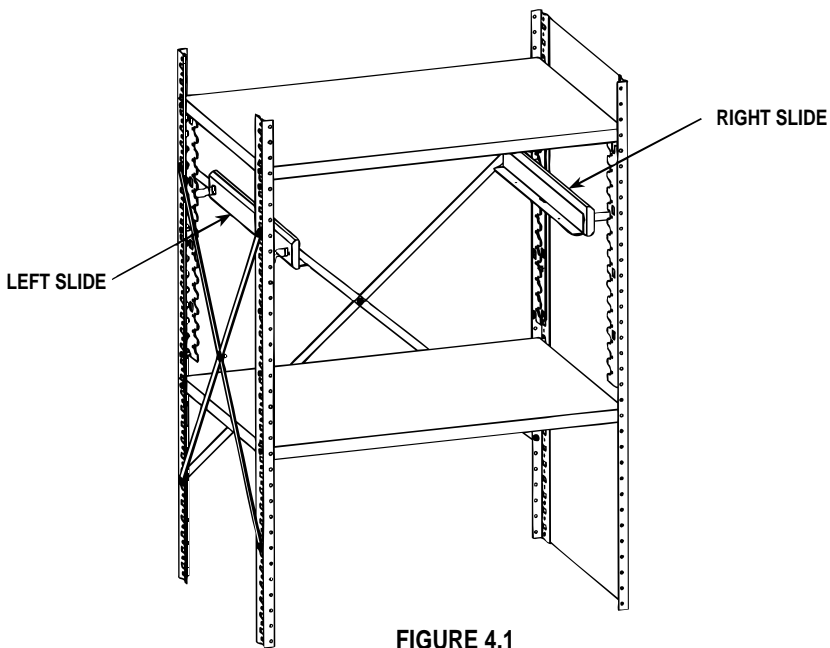


FIGURE 4.1

3. Push the tab on the front of the drawer slide over the notched section of the mounting upright. (See Figure 4.2)

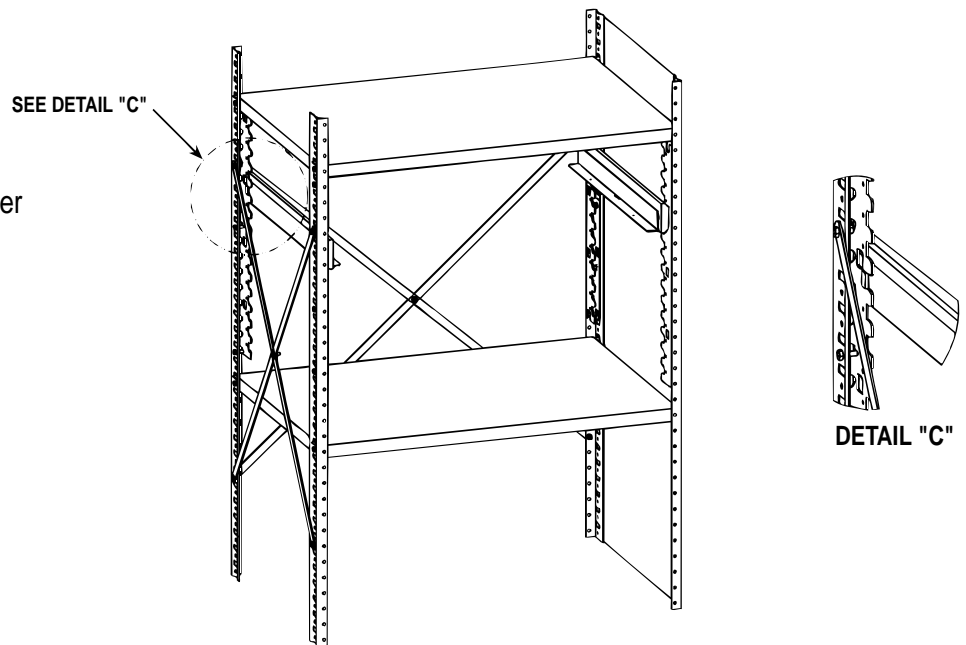


FIGURE 4.2

4. Extend the drawer slide to reveal the access hole used to fasten the drawer slide to the front mounting upright. Fasten the drawer slides to the mounting uprights using one (1) 1/4-20 x 5/8 Phillips pan head thread-forming screw for each slide. (See Figure 4.3). Proceed to Step 5.

NOTE: Make certain this thread-forming screw is straight, and not angled, while being installed into front mounting upright. Failure to do so may cause interference between drawer slide extension and this screw head.

NOTE: DO NOT OVERTIGHTEN THREAD-FORMING SCREWS. Overtightening these screws may damage both the mounting upright and the screws.

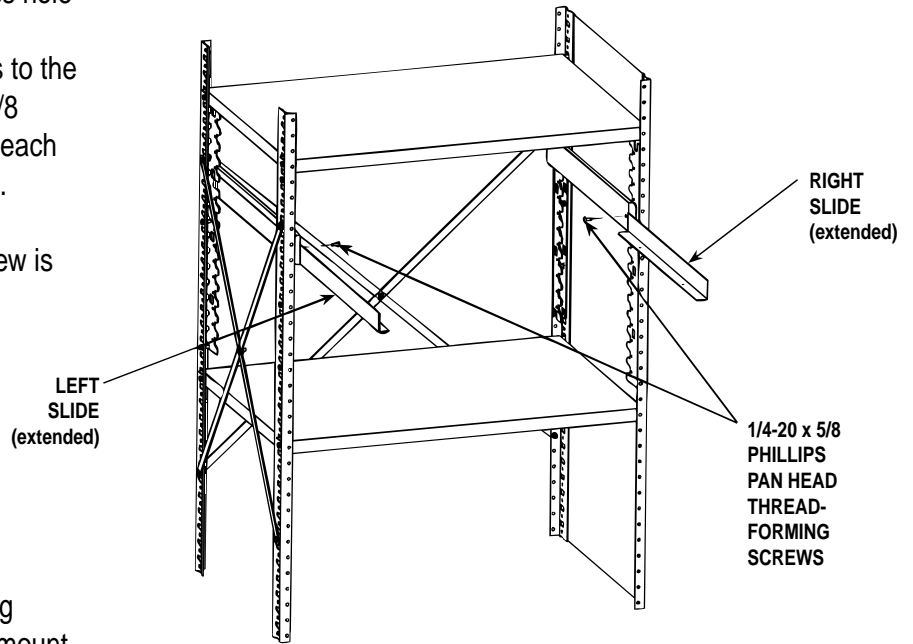


FIGURE 4.3

Step 5: Attaching the Drawers to the Drawer Slides

1. With the slides in the extended position, place a drawer on the top of the L-section of the drawer slides. Set the two (2) ultra-grip rivets in bottom of drawer into rear holes of slide L-sections. (See Figure 5)

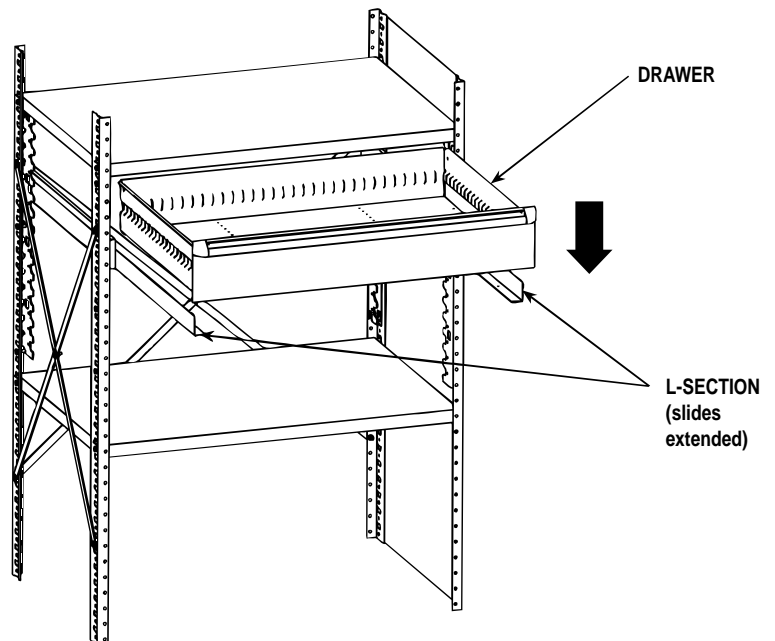


FIGURE 5

2. Attach the drawer to the drawer slides using two (2) #10-32 x 1/4 thread-forming screws. (See Figure 5.1). Proceed to Step 6.

NOTE: DO NOT OVERTIGHTEN THREAD-FORMING SCREWS. Overtightening these screws may damage both the slides and the screws.

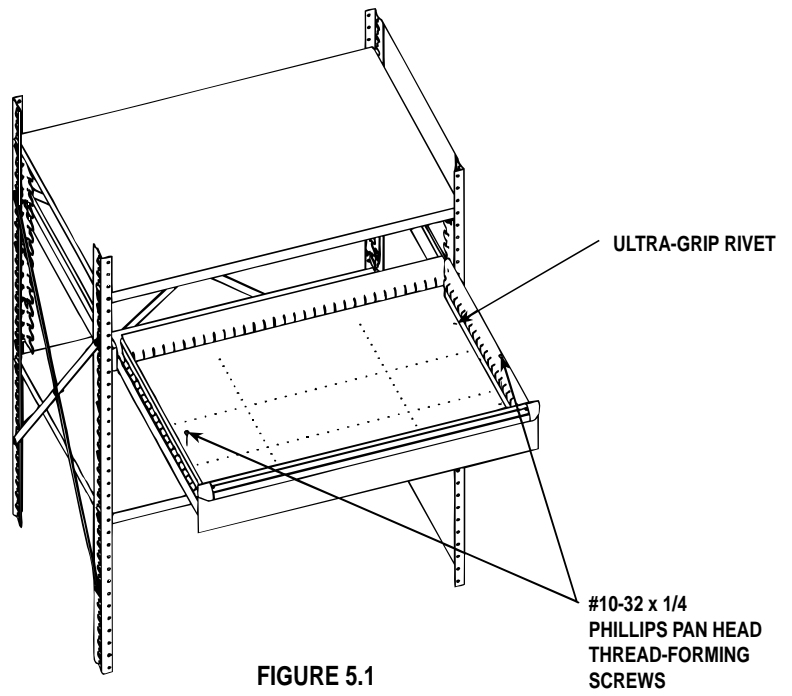


FIGURE 5.1

Step 6: Installing Label and Label Cover on Drawer Handle

1. Remove plastic end cap from either end of drawer front. (See Figure 6)

NOTE: It may be necessary to loosen the screw inside drawer nearest the end cap holding the drawer handle in place.

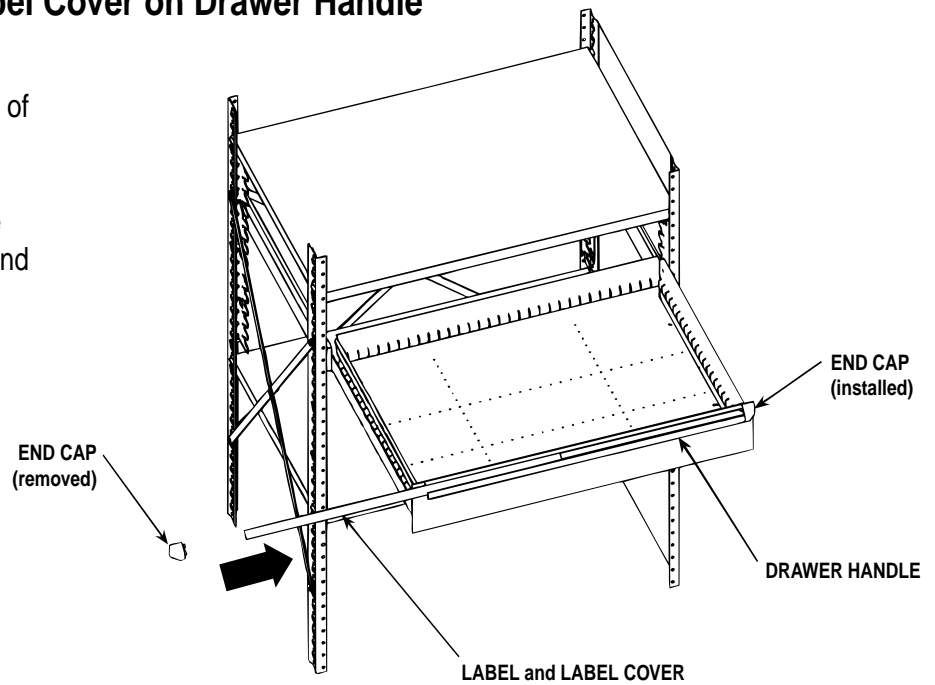


FIGURE 6

2. Slide the label and label cover into slot of drawer handle.
3. Reinstall plastic end cap onto drawer front, tightening screw loosened in #1 above, if necessary.

Step 7: Repeat Above Procedures For All Other Drawers