

# LMS

## Technical environment systems Installation manual



*Powering Business Worldwide*

# Technical Environment Systems

## INSTALLATION MANUAL

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*Product specifications are subject to change without notice*

# **Technical Environment Systems**

## **Introduction**

Congratulations on your purchase of Wright Line's Technical Environment Systems. These systems consist of a wide selection of steel uprights, structural support frames, worksurfaces, keyboard holders, steel and laminate shelf components and accessories designed to meet specialized storage requirements in a wide variety of environments in today's workplace.

# Full Frame and Upright Assembly

## Tools Required

- Tape measure
- Phillips head screwdriver
- 5/32" Allen wrench (provided)
- 1/4" Allen wrench (provided)
- Plastic mallet
- 1/2" Wrench
- 2 ft. to 3 ft. level
- Leveling wrench (provided)

**NOTE:** 24", 30", 36", 42", and 48" wide **Full Frames** are one-piece units, ready for assembly to the Uprights. 60", 72", and 90" wide units are two-piece construction and 96" wide Frames ship as three pieces. All require assembly before attachment to the Uprights. See page A-2.

1. 60", 72", and 90" Frames have a left and right half. A warning label is on the rear of the left half. See **Figure 1**. The 96" frame has a left, a right, and a "I" shaped center section. Lay the sections on the floor, butting the ends of the top and bottom channels.

**Important!** Compare the trapezoidal holes (holes to accept components) of the Frame sections making sure they are in the same direction.

2. Remove the 5/16"-18 x 1.00 Cap screws and washers from the top and bottom channels. The screws and washers are shipped in place to prevent damage to the threads.

3. Packaged with the Full Frame are two full length **Support Tubes** that bolt into the top and bottom channels. These tubes tie the two halves together. See **Figure 1**. **Note:** The bottom tube has adjustable **Levelers**. Drive a #10-24 x 3/8" screw through the channel into the pre-drilled hole in the support tube on both sides of the joint, both top and bottom. **NOTE:** The 60" Frame only has holes on one side of the joint. See **Figure 1**.
4. Bolt the tubes in place with the 5/16"-18 x 1.00 Cap screws and washers just removed. Repeat the process for the bottom. See **Figure 1**. Tighten all screws.
5. Place the **Cap** over the Top Support Tube to verify its fit. Next, remove the protective paper from the adhesive strip on its underside and secure it to the top of the Frame. See **Figure 1**.

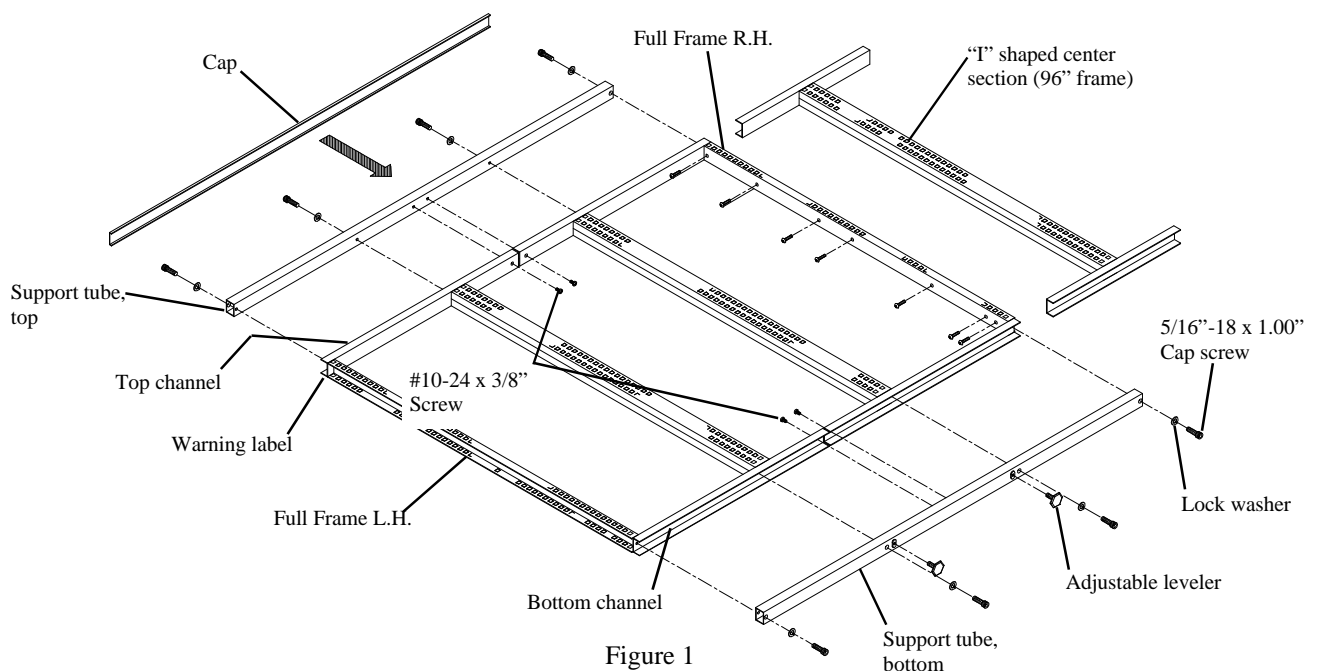
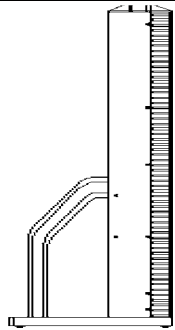


Figure 1

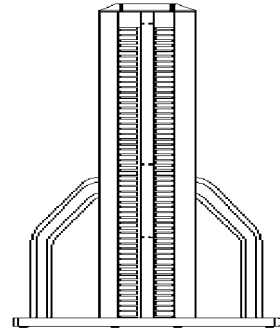
# Full Frame and Upright Assembly (cont.)



Enhanced Upright



Full Depth Upright



Double Upright

Figure 2

## UPRIGHT ASSEMBLY

**NOTE:** There are **three** kinds of **Uprights**. All include Vertical Cable Management. See **Figure 2**. All are shipped fully assembled. It is recommended to slide the **Cover** from the top of the Vertical Cable Management Duct prior to assembly of the Upright to its frame. Remove the protective inner packing located inside the vertical duct.

1. Assign uprights to be **left end** and **right end** relative to a frame.

**NOTE:** If a **Tech Corner Post** will be used, refer to page A-9 for additional assembly instructions.

2. With two people, stand the **Full Frame** up in the approximate area it will be used. Attach the appropriate Upright (left, right and intermediate) to each end with two 1/4"-20 x 5/8" screws. **Do not tighten at this time.**

Make sure the frame is attached to the upright as shown in **Figure 4**. It will now stand by its self. Install the remaining screws. Tighten each side after all the screws have been installed.

3. Adjust the Foot Levelers with the leveling wrench until the unit(s) are square and level. For 48" wide and larger frames, lower the levelers under the intermediate posts until they touch the floor.
4. Install the **Top Caps** and **Cable Management Covers**. Also install the **Hole Plugs** on the outside of each Upright.

If you are installing **Tech Wall Panels**, please refer to page 1 Section G for installation instructions.

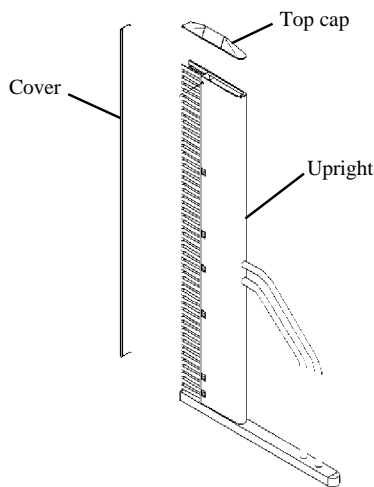


Figure 3

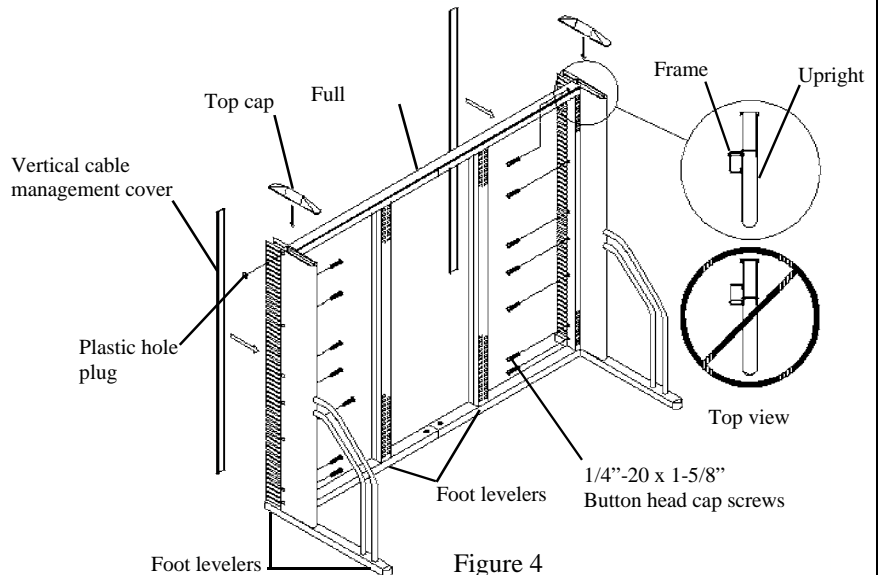
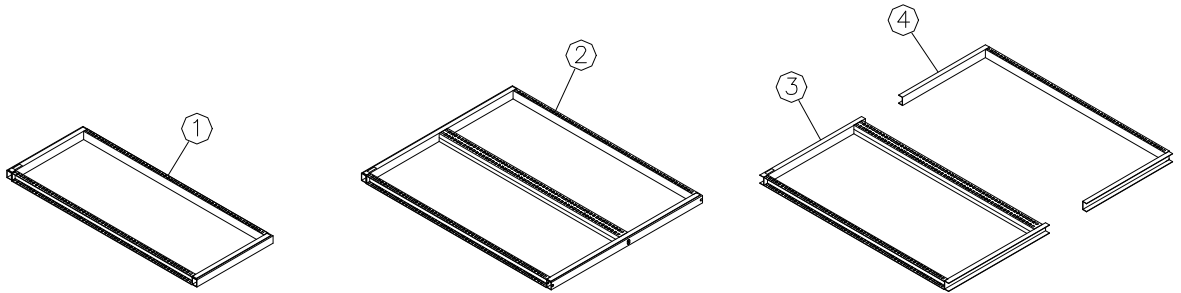


Figure 4

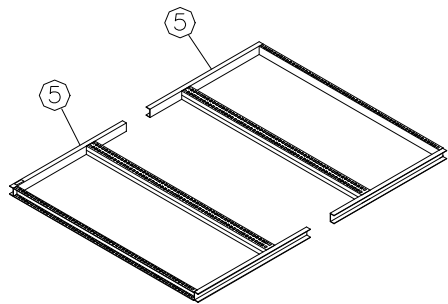
# Full Frame and Upright Assembly (cont.)



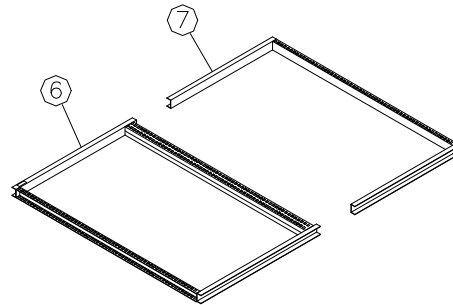
24", 30", 36", 42"  
Full Frame

48" Full Frame

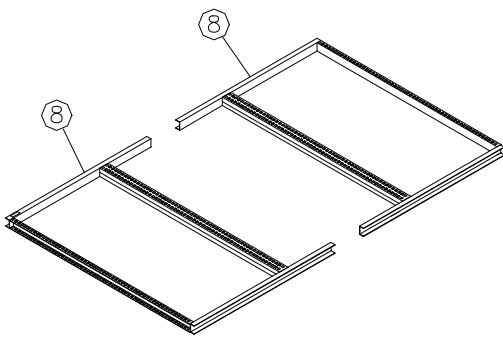
60" Full Frame



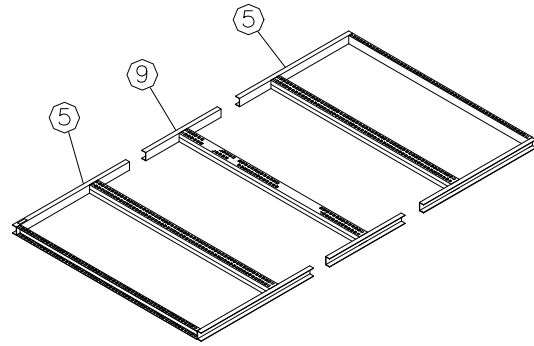
72" Full Frame



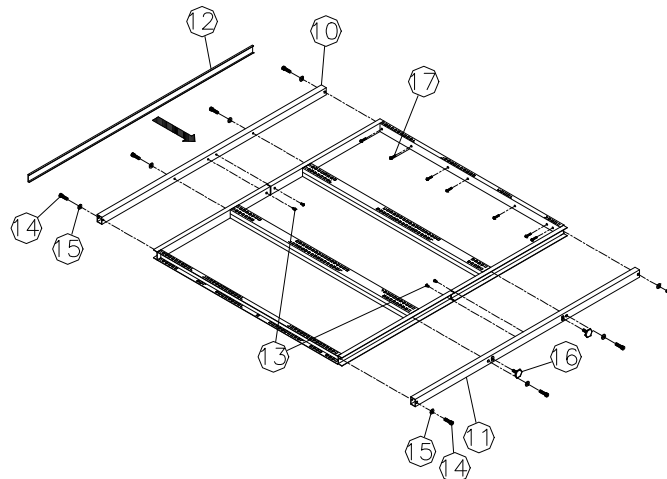
72" Full Frame (36"/36")



90" Full Frame



96" Full Frame



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# Full Frame and Upright Assembly (cont.)

| Parts List  |                         |                             |   |
|-------------|-------------------------|-----------------------------|---|
| Part Number | Description             | Qty.                        |   |
| <b>1</b>    | 3485X                   | 24"W x 45"H Full Frame      | 1 |
|             | 3486X                   | 30"W x 45"H Full Frame      |   |
|             | 3487X                   | 36"W x 45" H Full Frame     |   |
|             | 3488X                   | 42"W x 45" H Full Frame     |   |
|             | 2466X                   | 24"W x 61" H Full Frame     |   |
|             | 2469X                   | 30"W x 61" H Full Frame     |   |
|             | 2472X                   | 36"W x 61" H Full Frame     |   |
|             | 2467X                   | 24"W x 72"H Full Frame      |   |
|             | 2470X                   | 30"W x 72" H Full Frame     |   |
|             | 2473X                   | 36"W x 72" H Full Frame     |   |
|             | 2468X                   | 24"W x 84" H Full Frame     |   |
|             | 2471X                   | 30"W x 84" H Full Frame     |   |
| 2474X       | 36"W x 84" H Full Frame |                             |   |
| <b>2</b>    | 3489X                   | 48"W x 45"H Full Frame      | 1 |
|             | 2478X                   | 48"W x 61"H Full Frame      |   |
|             | 2479X                   | 48"W x 72"H Full Frame      |   |
|             | 2480X                   | 48"W x 84"H Full Frame      |   |
| <b>3</b>    | 3491X                   | L.H. 60"W x 45"H Full Frame | 1 |
|             | 2626X                   | L.H. 60"W x 61"H Full Frame |   |
|             | 2667X                   | L.H. 60"W x 72"H Full Frame |   |
|             | 2669X                   | L.H. 60"W x 84"H Full Frame |   |
| <b>4</b>    | 3490X                   | R.H. 60"W x 45"H Full Frame | 1 |
|             | 2627X                   | R.H. 60"W x 61"H Full Frame |   |
|             | 2668X                   | R.H. 60"W x 72"H Full Frame |   |
|             | 2670X                   | R.H. 60"W x 84"H Full Frame |   |

| Parts List  |                      |                                |   |
|-------------|----------------------|--------------------------------|---|
| Part Number | Description          | Qty.                           |   |
| <b>5</b>    | 3497X                | Half 72"W x 45"H Full Frame    | 2 |
|             | 2624X                | Half 72"W x 61"H Full Frame    |   |
|             | 2622X                | Half 72"W x 72"H Full Frame    |   |
|             | 2620X                | Half 72"W x 84"H Full Frame    |   |
| <b>6</b>    | 3493X                | L.H. 45"W 36"/36" Full Frame   | 1 |
|             | 3596X                | L.H. 72"W x 61"H x 36"/36" FF  |   |
|             | 3315X                | L.H. 72"W x 36"/36" Full Frame |   |
| <b>7</b>    | 3598X                | L.H. 72"W x 84"H x 36"/36" F F | 1 |
|             | 3492X                | R.H. 45"W 36"/36" Full Frame   |   |
|             | 3597X                | R.H. 72"W x 61"H x 36"/36" F F |   |
|             | 3316X                | R.H. 72"W 36"/36" Full Frame   |   |
| <b>8</b>    | 3599X                | R.H. 72"W x 84"H 36"/36" F F   | 2 |
|             | 3495X                | Half 90"W x 45"H Full Frame    |   |
|             | 2949X                | Half 90"W x 61"H Full Frame    |   |
|             | 2950X                | Half 90"W x 72"H Full Frame    |   |
| <b>9</b>    | 2876X                | Half 90"W x 84"H Full Frame    | 1 |
|             | 3448X                | Add-on 96"W x 45"H Full Frame  |   |
|             | 2787X                | Add-on 96"W x 61"H Full Frame  |   |
| <b>10</b>   | 2788X                | Add-on 96"W x 72"H Full Frame  | 1 |
|             | 2789X                | Add-on 96"W x 84"H Full Frame  |   |
|             | 2664X                | Support, 47.00", Top           |   |
|             | 2637X                | Support, 59.46", Top           |   |
|             | 2639X                | Support, 71.46", Top           |   |
| 2878X       | Support, 89.46", Top | 1                              |   |
| 2785X       | Support, 95.46", Top |                                |   |

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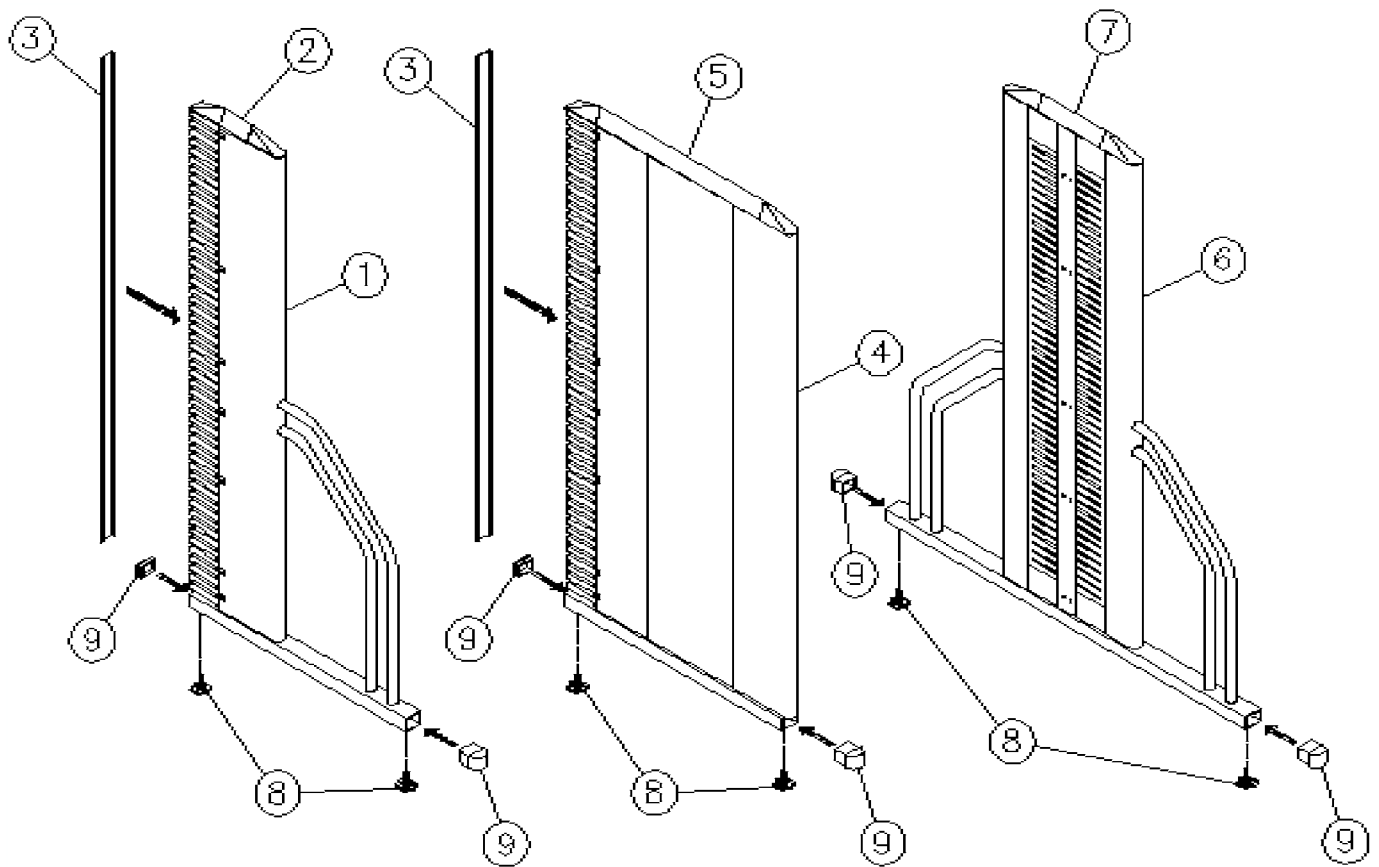
# Full Frame and Upright Assembly (cont.)

| <b>Parts List</b> |       |  |      |
|-------------------|-------|--|------|
| Part Number       |       | Description                            | Qty. |
| <b>11</b>         | 2665X | Support Tube, 47.00", Bottom           | 1    |
|                   | 2638X | Support Tube, 59.46", Bottom           |      |
|                   | 2640X | Support Tube, 71.46", Bottom           |      |
|                   | 2879X | Support Tube, 89.46", Bottom           |      |
|                   | 2786X | Support Tube, 95.46", Bottom           |      |
| <b>12</b>         | 2691X | 24" Cap, Full Frame                    | 1    |
|                   | 2692X | 30" Cap, Full Frame                    |      |
|                   | 2693X | 36" Cap, Full Frame                    |      |
|                   | 2695X | 48" Cap, Full Frame                    |      |
|                   | 2696X | 60" Cap, Full Frame                    |      |
|                   | 2697X | 72" Cap, Full Frame                    |      |
|                   | 2953X | 90" Cap, Full Frame                    |      |
|                   | 2954X | 96" Cap, Full Frame                    |      |
| <b>13</b>         | 66714 | #10-24 x 3/8" PHPAN TFM screw          | 6-8  |
| <b>14</b>         | 68809 | 5/16"-18 x 1.00 Socket head screw      | 6-10 |
| <b>15</b>         | 18950 | Lock Washer                            | 6-10 |
| <b>16</b>         | 21333 | Glide Foot                             | 1-3  |
| <b>17</b>         | 83508 | 1/4"-20 x 1-5/8" Button head cap screw | 14   |
| <b>18</b>         | 85267 | Leveler Wrench                         | 1    |



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# Full Frame and Upright Assembly (cont.)



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# Full Frame and Upright Assembly (cont.)

| <b>Parts List</b> |         |                                 |      |
|-------------------|---------|---------------------------------|------|
| Part Number       |         | Description                     | Qty. |
| <b>1</b>          | 3483X   | 45" Upright                     | 1    |
|                   | 3029X   | 61" Upright                     |      |
|                   | 3030X   | 72" Upright                     |      |
|                   | 3031X   | 84" Upright                     |      |
| <b>2</b>          | 3381X   | Top Trim Assembly               | 1    |
| <b>3</b>          | 4268X   | 58.84" Cover                    | 1    |
|                   | 4269X   | 69.84" Cover                    |      |
|                   | 3727X   | 81.84" Cover                    |      |
| <b>4</b>          | 6L05-XX | 61" Deep Upright                | 1    |
|                   | 7L05-XX | 72" Deep Upright                |      |
|                   | 8L05-XX | 84" Deep Upright                |      |
| <b>5</b>          | 4149X   | Top Trim Assembly               | 1    |
| <b>6</b>          | 4I14-XX | 45" Double Upright 27" Deep     | 1    |
|                   | 6L14-XX | 61" Double Upright 27" Deep     |      |
|                   | 7L14-XX | 72" Double Upright 27" Deep     |      |
|                   | 8L14-XX | 84" Double Upright 27" Deep     |      |
|                   | 4L15-XX | 45" Double Upright 42" Deep     |      |
|                   | 6L15-XX | 61" Double Upright 42" Deep     |      |
|                   | 7L17-XX | 72" Double Upright 42" Deep     |      |
|                   | 8L15-XX | 84" Double Upright 42" Deep     |      |
|                   | 4L16-XX | 45" Double Upright 36"/42" Deep |      |
|                   | 6L16-XX | 61" Double Upright 36"/42" Deep |      |
|                   | 7L16-XX | 72" Double Upright 36"/42" Deep |      |
|                   | 8L16-XX | 84" Double Upright 36"/42" Deep |      |
| <b>7</b>          | 3711X   | Top Trim Assembly               | 1    |
| <b>8</b>          | 21333   | Glide Foot                      | 2    |
| <b>9</b>          | 1242X   | End Caps (pair)                 | 1    |

The **Tech Corner Post** enables two or more Full/Open Frames to be configured perpendicular to each other. It can also create “T” or “X” shaped configurations. See **Figure 6**. Dissimilar height units may be used around the Tech Corner Post, provided it is equal to the tallest frame.

1. First, assemble an Upright to the end of the Full/Open Frame opposite from the corner post. This will provide some extra stability while attaching the frame to the Tech Post.

The Tech Corner Post has two vertical rows of holes on all four sides allowing attachment of the Full Frame. The end of the frame should be centered on the post when correctly positioned. Attach with 1/4”-20 x 1-5/8” Button Head Cap Screws. See **Figure 7**.

2. Check for vertical alignment and horizontal level of the entire assembly. Adjust the **levelers** under the post, upright feet, and beneath the interior verticle post of the 48” and larger Full Frames as needed.

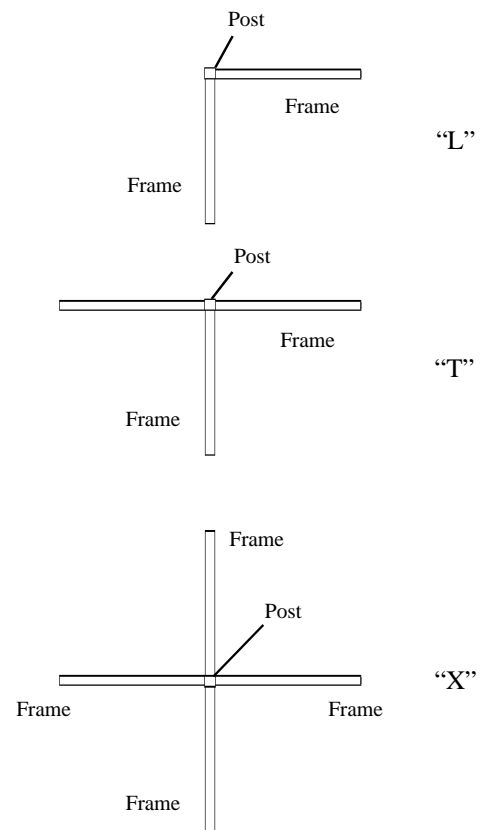


Figure 6

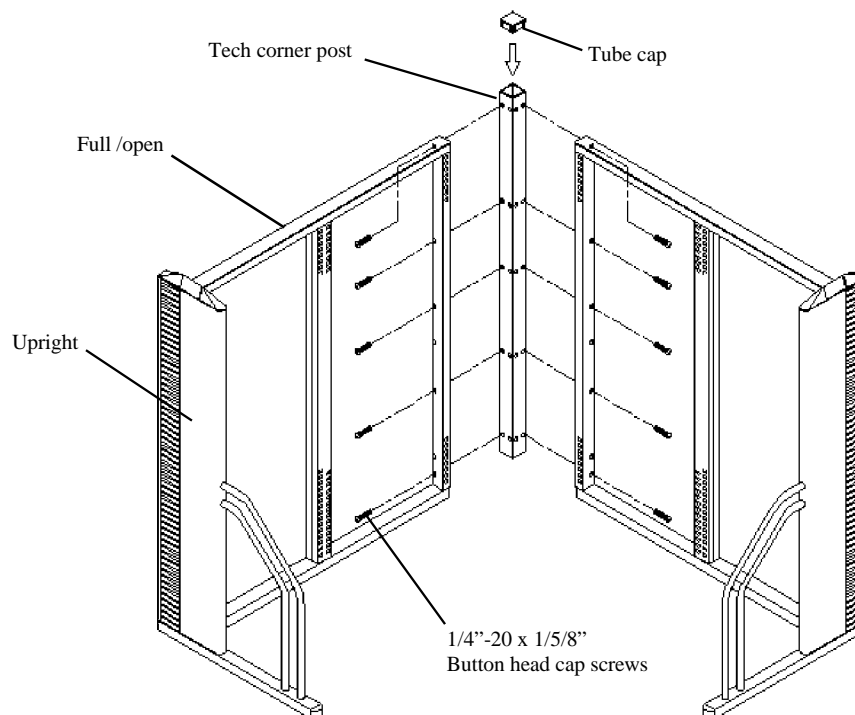
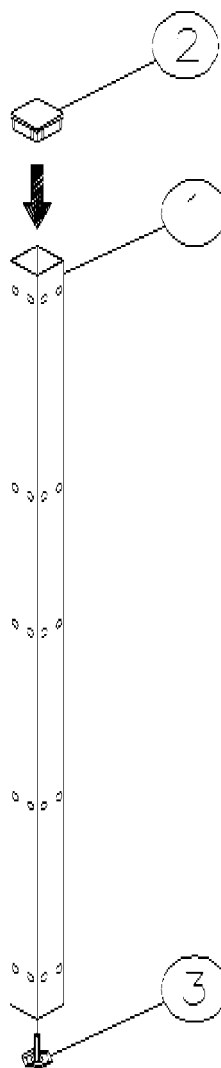


Figure 7

# Tech Corner Post ( c o n t . )

| Parts List  |       |                 |      |
|-------------|-------|-----------------|------|
| Part Number |       | Description     | Qty. |
| <b>1</b>    | 3591X | 45" Corner Post | 1    |
|             | 2945X | 61" Corner Post |      |
|             | 2944X | 72" Corner Post |      |
|             | 2943X | 84" Corner Post |      |
| <b>2</b>    | 2957X | Cap             | 1    |
| <b>3</b>    | 21333 | Glide Foot      | 1    |



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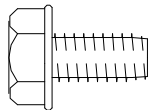
# Frame Linking Kit

Please read these instructions carefully and follow the installation steps in sequence.

## Tools Required

- 3/8" Open end wrench
- 7/16" Open end wrench
- 1/2" Open end wrench
- 5/32" Allen Wrench
- Plastic mallet
- Level

## Fasteners That You Will Be Using



#54348  
1/4"-20 x 1/2" Hex  
Washer Head Screw



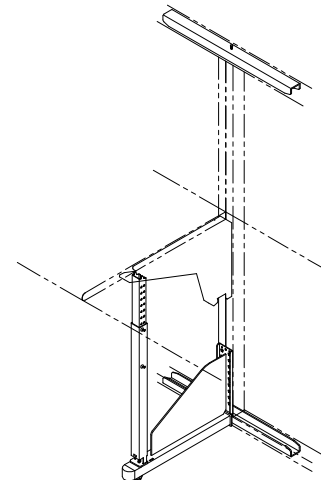
#87464  
1/4"-20 x 3.00" Button  
Head Cap Screw



#87466  
1/4"-20 Hex Nut  
w/Lockwasher



#84741  
1/4"-20 x 1-3/4" Button  
Head Cap Screw



Frame Linking Kit

## IMPORTANT SAFETY INSTRUCTIONS

1. Maximum loading: (Evenly distributed loads on worksurfaces and shelving.)

- (2) 72" x 84" Frame sections = 2000#/section.
- (3) 72" x 84" Frame sections = 1700#/section.

**NOTE:** If worksurfaces are not part of the installation, the maximum loading decreases to 1600# /section for two sections and 1200# /section for three sections. The reduction is due to the Front Support not being used.

2. Maximum number of frame sections that can be linked is three (3).

3. Each frame joint must have the following components properly installed:

- (1) Top Connector with centering screw. (Remove centering screw after installation.)
- (1) Bottom Connector with leveler.
- (1) Add-On Foot
- (1) Front Support

8

Frame joint hardware (1/4"-20 x 3.00" button head cap screws and 1/4"-20 hex nuts).

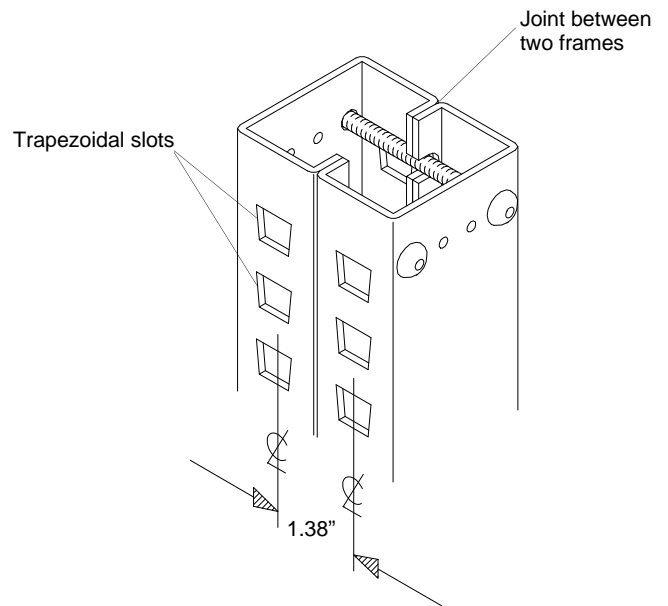
4. A minimum of two people are required for assembly.

## IMPORTANT

When two frames are linked, the center-to-center dimension between the trapezoidal holes at the joint is 1.38" or .08" greater than the 1.30" on intermediate standards.

Components which have a *one piece hook-on panel* will **not** be able to be installed in a configuration which spans the joint. For Example:

- Horizontal Cable Management
- Locking Compartments
- Universal Shelves
- Documate Hanger Bar
- Heavy Duty Shelf Support
- Open Printer Shelves



## LINKING FRAMES

1. Pre-assemble a Full Frame section and Upright. See figure 1.
2. Insert the **Top Connector** into the 1.50" x 2.00" tube at the top of the frame oriented as shown in figure 1.

It may be necessary to file the weld at the tube ends on 48" and narrower frames which were manufactured before 9/99.

**NOTE:** The centering screw must be facing up. **Do not remove** the centering screw at this time.

3. Insert the **Bottom Connector** into the 1.50" x 2.00" tube at the bottom of the frame. See figure 1.

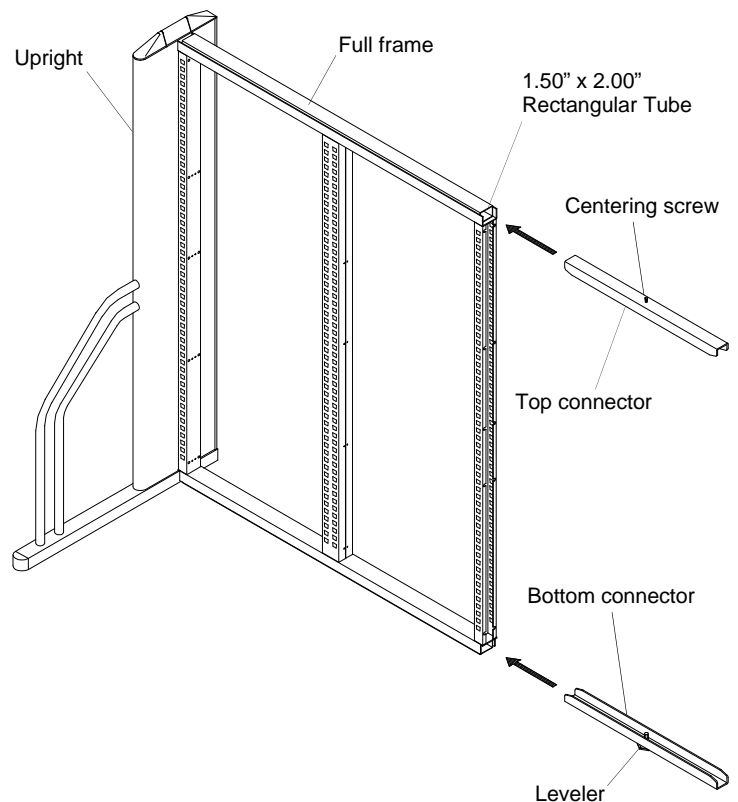


Figure 1

## LINKING FRAMES (continued)

- Align the *second pre-assembled* frame section with the first and slide the two frame sections together. See figure 2.

It may be necessary to alternately use a plastic mallet at the top and bottom of the frames to fully seat the connectors.

**NOTE:** The leveler on the Bottom Connector must be partially extended.

Remove the centering screw in the Top Connector at this time.

- Fasten the two frame sections together using the 1/4"-20 x 3.00" button head cap screws and hex nuts.

**Note:** Ensure that the face of each end standard are in the same plane. Use the **Add-On Foot** hook plate to adjust if necessary. (See step 6.)

Tighten all fasteners securely using a 5/32" allen wrench and 7/16" wrench.

- Install an Add-on Foot at the bottom at the bottom of the joint of each frame section. See figure 2.

Insert the hooks on the back of the Add-On Foot into the slotted standards on the frames and push down. Tap the top of the Add-On Foot with a plastic mallet to ensure that the hooks are fully seated.

- Lock the Add-On Foot in place by installing the four 1/4"-20 x 1/2" hex washer head thread forming screws using a 3/8" wrench.

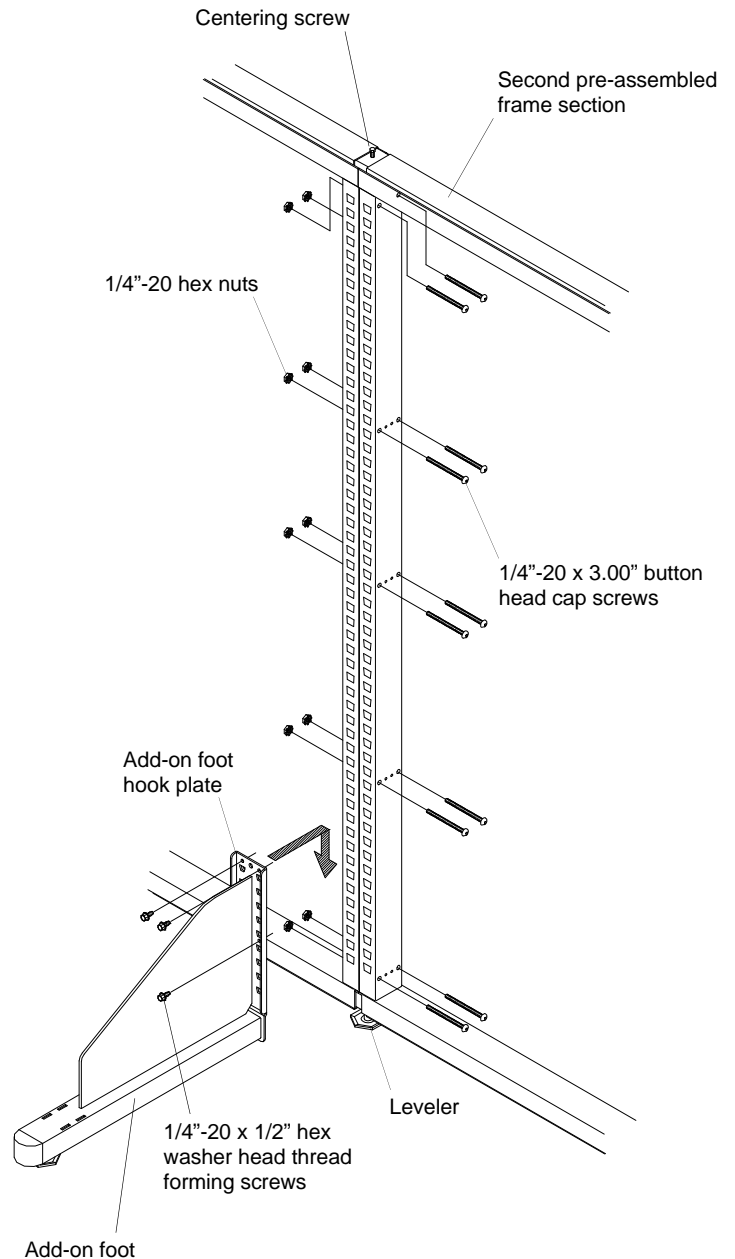


Figure 2

## INSTALLING THE FRONT SUPPORT

If worksurfaces are being installed in the linked frame configuration, they must be positioned at the same height and **Front Supports** must be installed with the Add-On Foot at each frame joint.

The Front Support can be installed with both 27" and 36" deep worksurfaces. See figure 1. The support can be installed at heights of 27" to 40" for 27" deep worksurfaces and 29" to 40" for 36" deep worksurfaces.

1. Remove the two 1/4"-20 x 1-3/4" button head cap screws and hex nuts from the Front Support assembly. See figure 2.
2. With the upper section loose inside the lower section, insert the bottom tabs on the lower section thru the slots in the **Bearing Plate** and into the appropriate slots in the top of the foot.
  - Front slots for 27" deep worksurfaces
  - Rear slots for 36" deep worksurfaces.
3. Slide the upper section up to engage the hooks with the appropriate access holes in the bottom of each top support. See figures 1 and 3.
4. Align the holes in the upper and lower support sections and re-install two 1/4"-20 x 1-3/4" button head cap screws and hex nuts into the appropriate holes.
  - Use holes toward front for 27" deep worksurfaces.
  - Use holes toward rear for 36" deep worksurfaces.

Tighten securely using a 5/32" allen wrench and a 7/16" wrench.

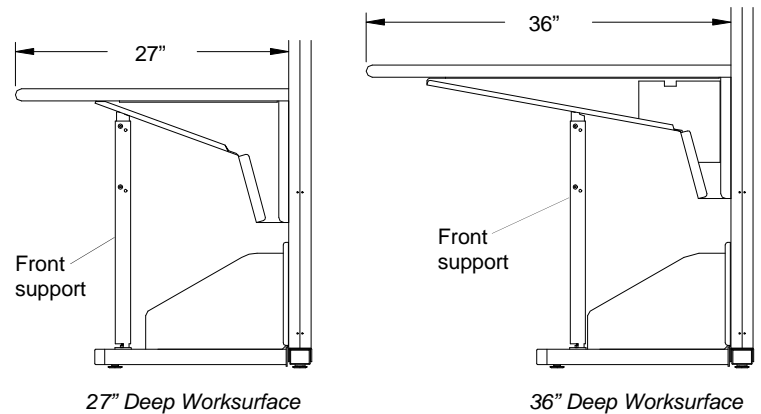


Figure 1

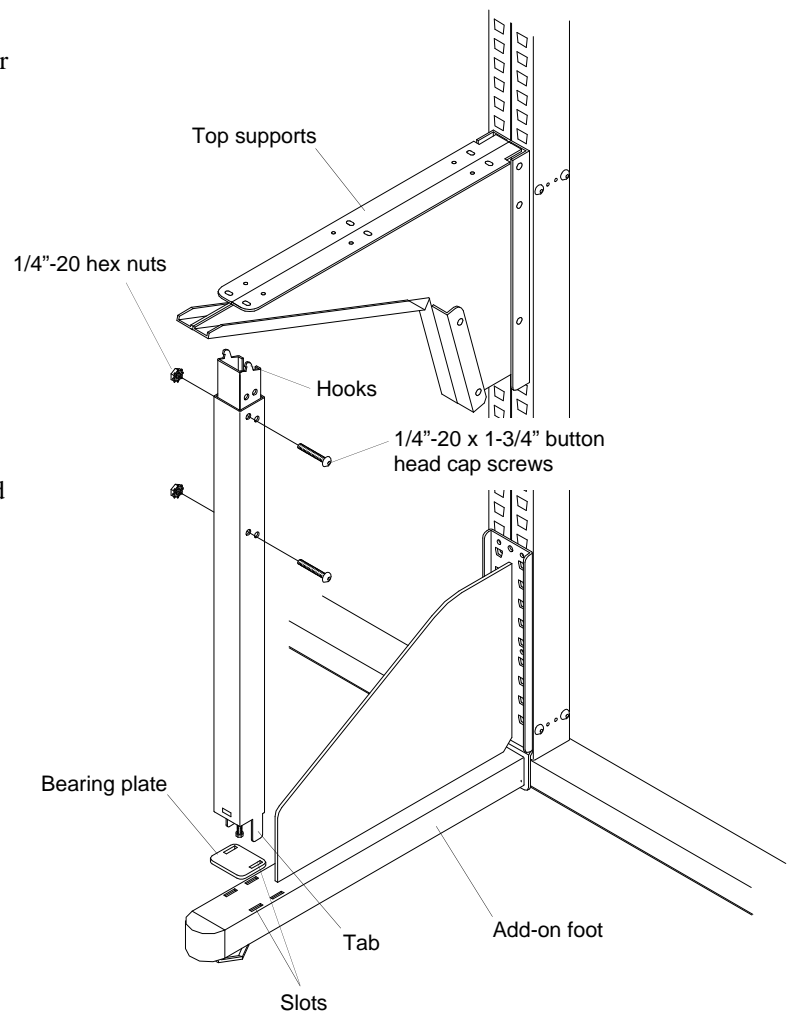


Figure 2

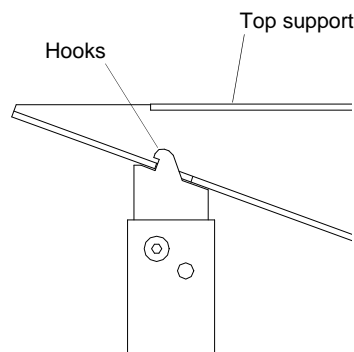


Figure 3



**INSTALLING THE FRONT SUPPORT (cont.)**

5. Adjust the screw at the bottom of the Front Support assembly with a 1/2" wrench to snug up the fit between the Add-On Foot and the top supports. See figure 4.

**LEVELING THE LINKED FRAMES**

1. Prior to loading the worksurfaces and shelving, level the entire unit by adjusting the leveling glides.

**IMPORTANT**

Ensure that all leveling glides are in contact with the floor.

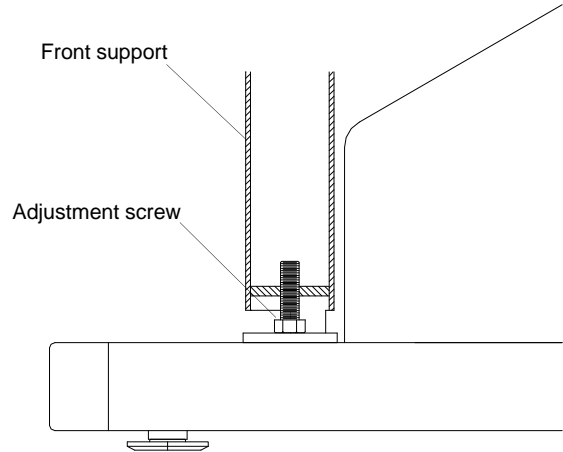
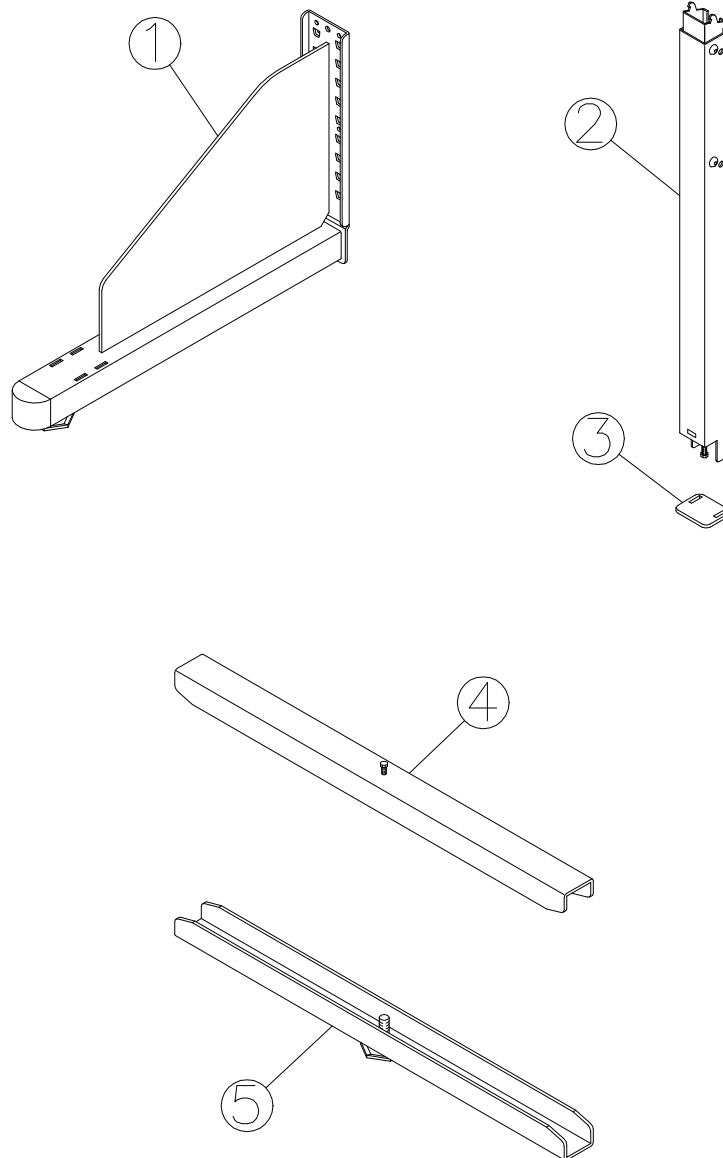


Figure 4

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# Frame Linking Kit ( c o n t . )

| Parts List  |       |                              |      |
|-------------|-------|------------------------------|------|
| Part Number |       | Description                  | Qty. |
| 1           | 8837X | Add-On Foot Assembly         | 1    |
| 2           | 8839X | Front Support Assembly       | 1    |
| 3           | 8842X | Bearing Plate                | 1    |
| 4           | 8848X | 24" Upper Connector Assembly | 1    |
| 5           | 8847X | 24" Lower Connector Assembly | 1    |



*Please read these instructions carefully and follow the installation steps in sequence.*

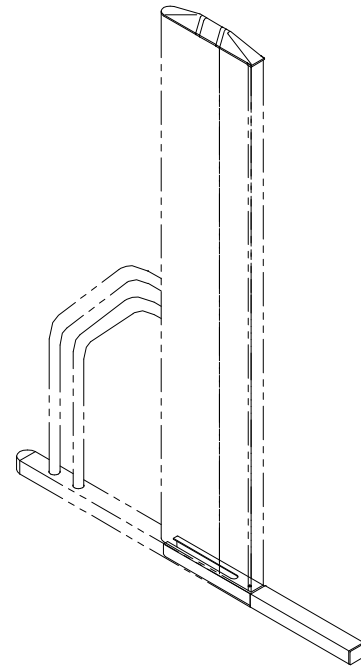
**Tools Required**

-5/32" Allen wrench (provided)

1. Remove the end cap from the back of the foot and install the **Foot Extender**. Fasten it in place with the 1/4"-20 x 3/8" button head cap screw. See **Figure 1**.

Install the end cap into the end of the Foot Extender  
See **Figure 1**.

Repeat the process for the opposite foot.



Foot Extender Kit

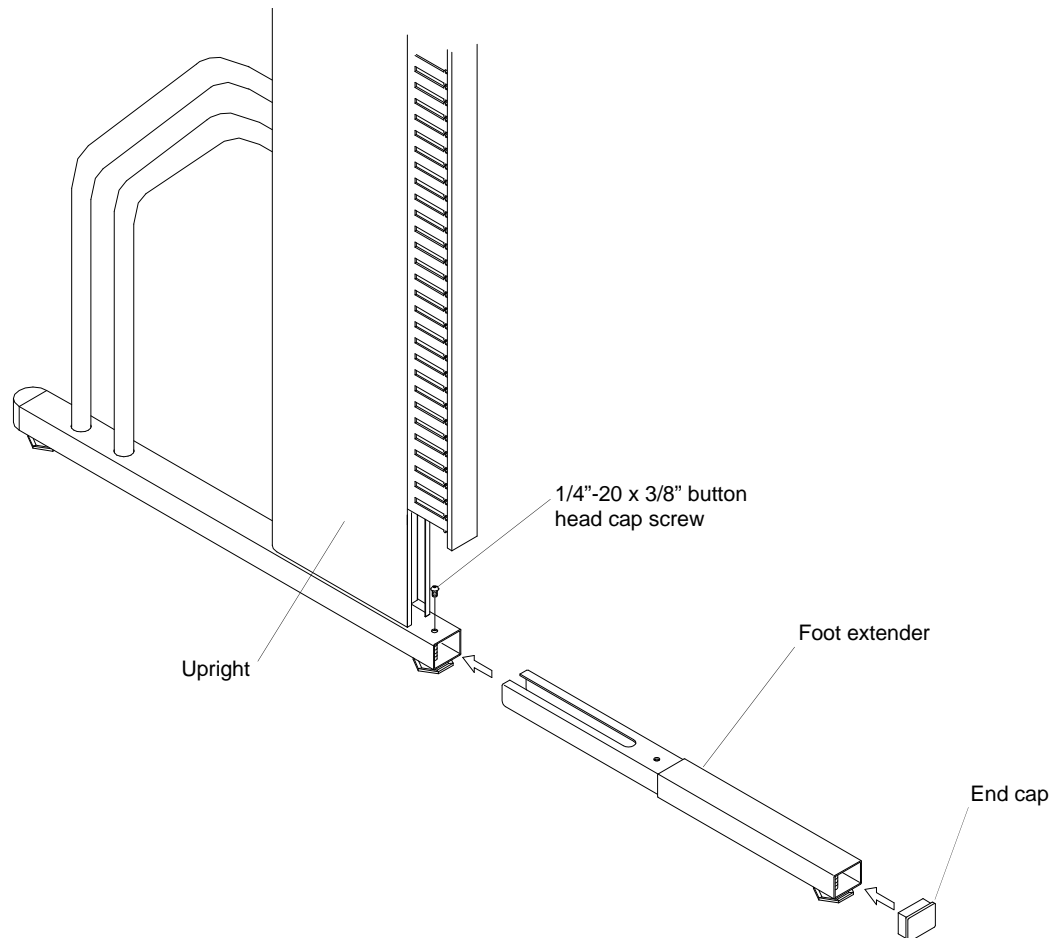


Figure 1

Please read these instructions carefully and follow the installation steps in sequence.

## TOOL TRACK INSTALLATION

**Tool Tracks** may be installed on Low Profile Overhead Brackets (MA50-MM) or on High Profile Overhead Brackets (MA51-MM) which are ordered separately.

Tool Tracks may be installed on LMS Full Frames or TechOrganizer frames.

**IMPORTANT:** Maximum Tool Track loading is 50 lbs.

### Tools Required:

- 5/32" Allen Wrench
- 1/2" Wrench
- Soft mallet

1. Determine the desired Tool Track location and hook on the first Overhead Bracket. Space the second Bracket based on the Tool Track size, 36", 48" etc. Tap the Brackets down to make sure that the hooks are seated. Secure the Brackets to the Frame using the #10-24 x 3/8" screws provided. See **Figure 1**.

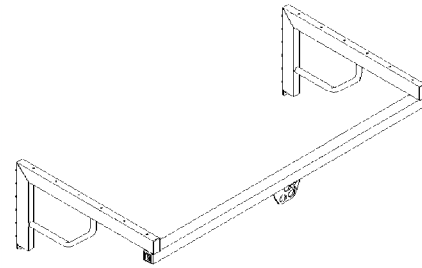
2. Position the Tool Track under the Overhead Brackets and align the holes in the Track with the holes in the Brackets. Attach the Tool Track using the 1/4"-20 x 1/2" screws and lock washers. Tighten both screws securely. See **Figure 2**.

3. Insert one **End Stop** into the Tool Track (see **Figure 2** for orientation). The bottom flat plate is outside the Track to clamp the Stop in place.

Install an **End Cap** into the Tool Track and slide the End Stop to the End Cap and lock in place by tightening the two nuts on the Stop.

4. At the opposite end, insert the **Balancer Trolley** into the Track and then install the second End Stop and End Cap following the instructions in step 3.

**NOTE:** If an End Cap strikes a screw head before seating fully into the Tool Track, trim the Cap with scissors.



Tool Track

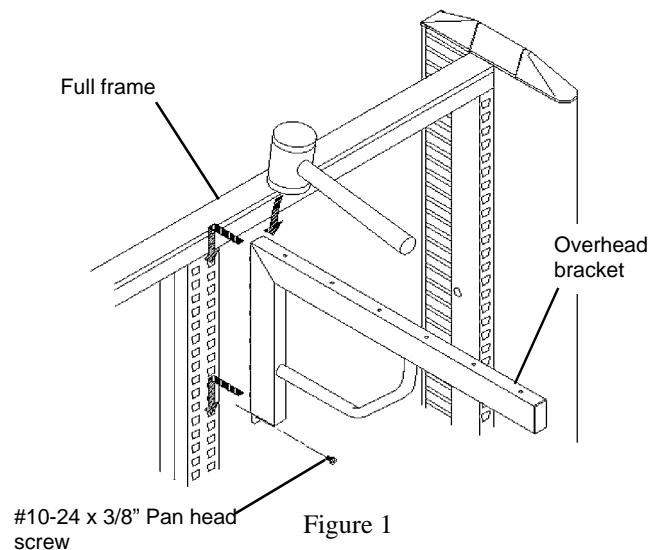


Figure 1

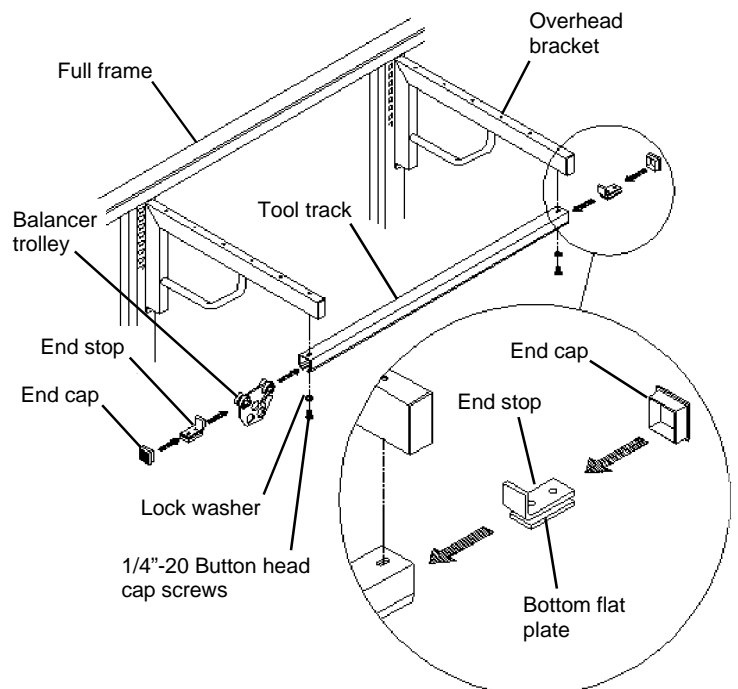
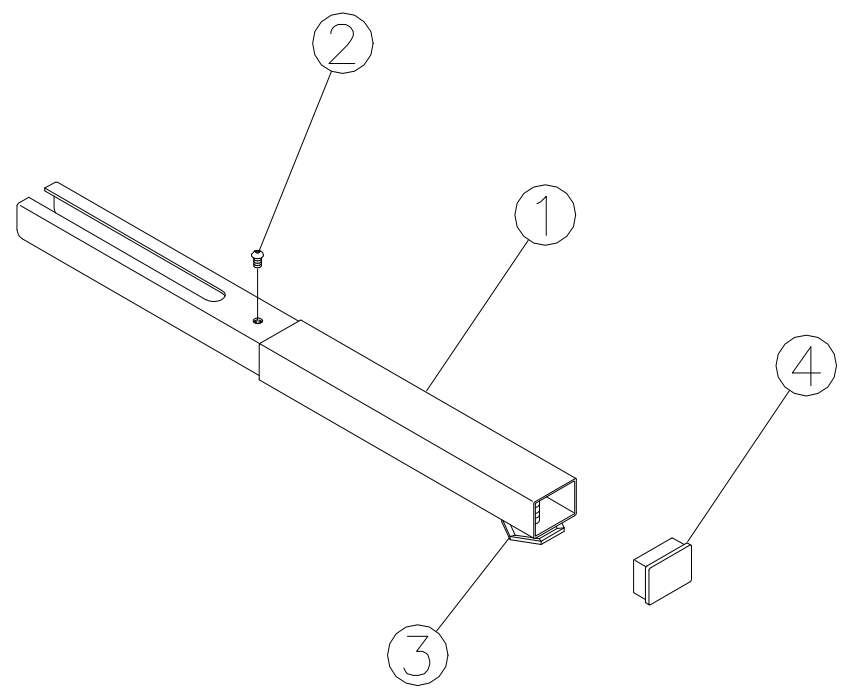


Figure 2

# Foot Extender Kit ( c o n t . )

| Parts List  |       |                                      |      |
|-------------|-------|--------------------------------------|------|
| Part Number |       | Description                          | Qty. |
| <b>1</b>    | 1979X | Foot Extender                        | 2    |
| <b>2</b>    | 68681 | 1/4"-20 x 3/8" Button Head Cap Screw | 2    |
| <b>3</b>    | 21333 | Leveler                              | 2    |
| <b>4</b>    | 1242X | End Cap (pair)                       | 2    |



## BENCH MOUNTED JIB INSTALLATION

Bench mounted **Jibs** may be installed on maple bench tops or laminate particle board tops.

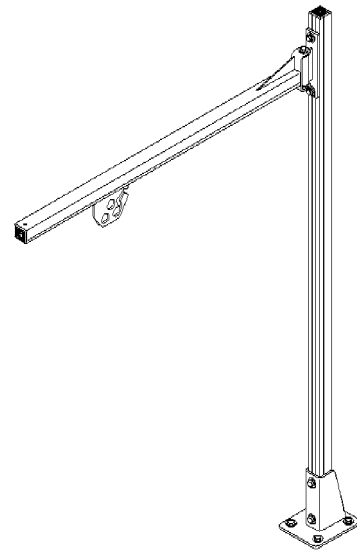
### IMPORTANT:

- Maximum Jib loading is 20 lbs.
- Thru Bolts with Washers (not provided) are required to attach the **Mounting Plate** to any bench top less than 1.18" thick.

### Tools Required:

- Electric drill
- .185" dia. (#13) drill bit
- 7/16" wrench
- 9/16" wrench

1. Position the Mounting Plate assembly in the desired location on the workbench and mark the location of the four mounting holes. See **Figure 3**.
2. Drill four .185" dia. thru holes and fasten the Mounting Plate assembly to the top using the 1/4" x 1-1/2" Lag screws and washers (provided). See **Figure 3**. If the top is less than 1.18" thick, use thru bolts, nuts and washers (not provided).
3. Loosen the clamp bar inside the Mounting Plate assembly, insert the **Vertical Column** and then tighten the clamp bar. See **Figure 4**.
4. Insert the **Jib Assembly** into the top of the Vertical Column and position it at the desired vertical height. Lock it into place by securely tightening the 3/8"-16 bolts and then install the **End Cap**. See **Figure 4**.



Bench Mounted Jib

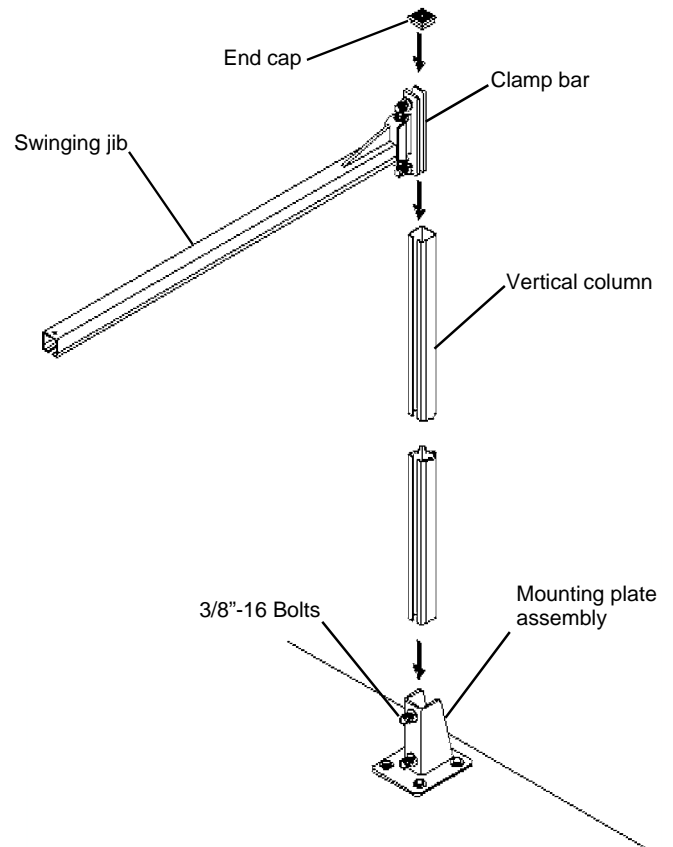


Figure 4

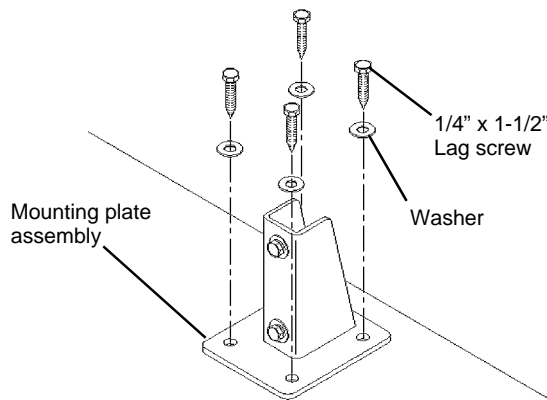


Figure 3

## BENCH MOUNTED JIB INSTALLATION (cont.)

5. Insert the Balancer Trolley and the End Stop into the Swinging Jib Track and then install the End Cap. Lock the End Stop in place by tightening the two nuts on the Stop. See **Figure 5**.
6. Adjust the drag on the Jib by tightening or loosening the adjustment screw. See **Figure 5**.

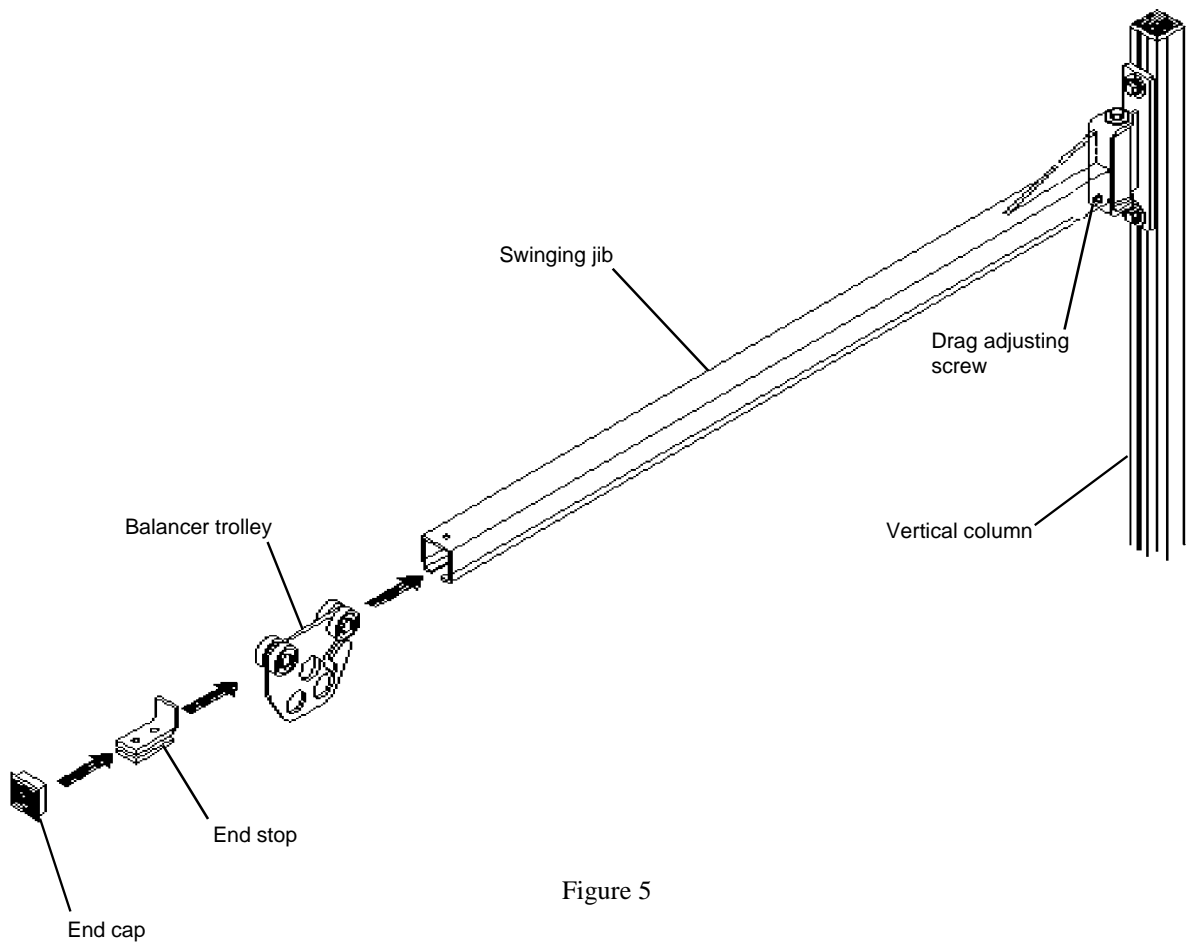


Figure 5

technical furniture

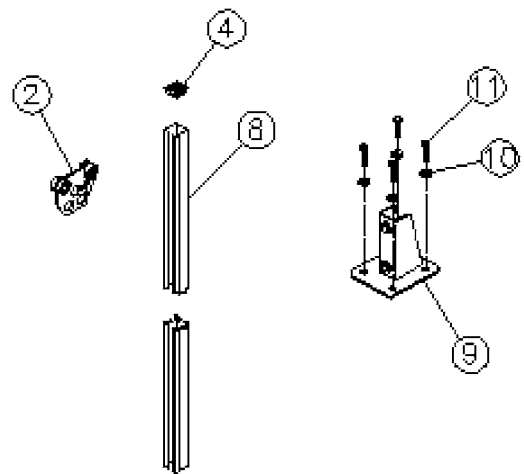
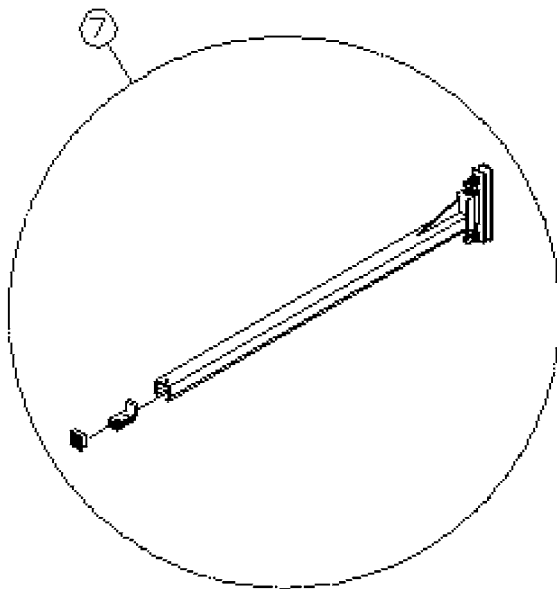
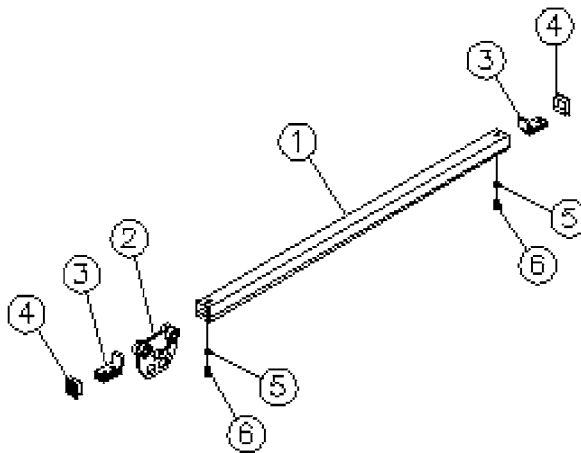
# Tool Track/Tool Jib ( c o n t . )

## Parts List

| Part Number | Description              | Qty. |
|-------------|--------------------------|------|
| 1           | 83631 Tool Track, 48.00" | 1    |
|             | 85352 Tool Track, 60.00" |      |
|             | 85353 Tool Track, 72.00" |      |
| 2           | 85368 Balancer Trolley   | 1    |
| 3           | 83632 End Stop           | 2    |
| 4           | 83633 End Cap            | 2    |

## Parts List

| Part Number | Description                                | Qty. |
|-------------|--|------|
| 5           | 59588 Lock Washer                          | 2    |
| 6           | 82703 1/4"-20 x 1/2" Button Head Cap Screw | 2    |
| 7           | 86250 Jib Assembly, 36" Swinging           | 1    |
| 8           | 83631 Vertical Column                      | 1    |
| 9           | 85356 Mounting Plate Assembly              | 1    |
| 10          | 18959 Washer                               | 4    |
| 11          | 85354 1/4" x 1.50" Lag Screw               | 4    |





Please read these instructions carefully and follow the installation steps in sequence.

**NOTE:** The Trim Ring provided with the Nova01 and Nova06 kits can not be used with Linx Worksurfaces. Please discard Trim Ring.

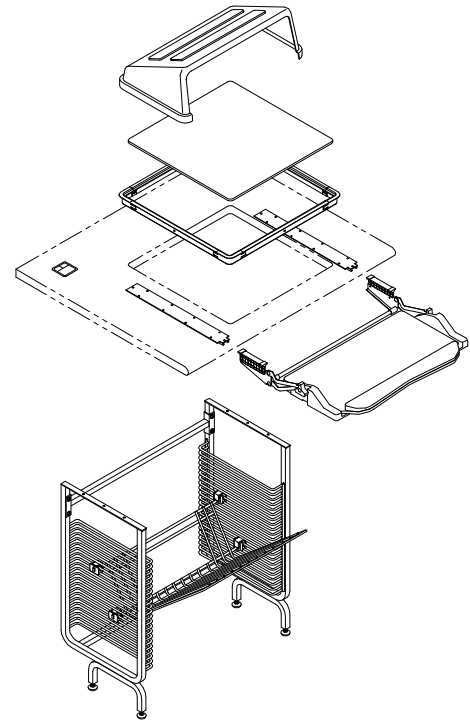
**Tools required**

-Phillips head screwdriver

**NOTE:** The wire rack is to be on the inside of the Side Assemblies to create one left hand and one right hand assembly. Refer to **Figure 1** for handing).

1. Attach the **Cross Braces** to the Side Assemblies using eight #14AB x 3/4" screws. See **Figure 1**.
2. Attach the **Legs** (optional) to the Side Assemblies using four #14AB x 3/4" screws and then install the **Levelers** (optional) on each leg. See **Figure 2**.

**NOTE:** Legs are not provided with the Oversized Nova kits. Install the four Levelers directly into the Side Assemblies.



Nova Retrofit

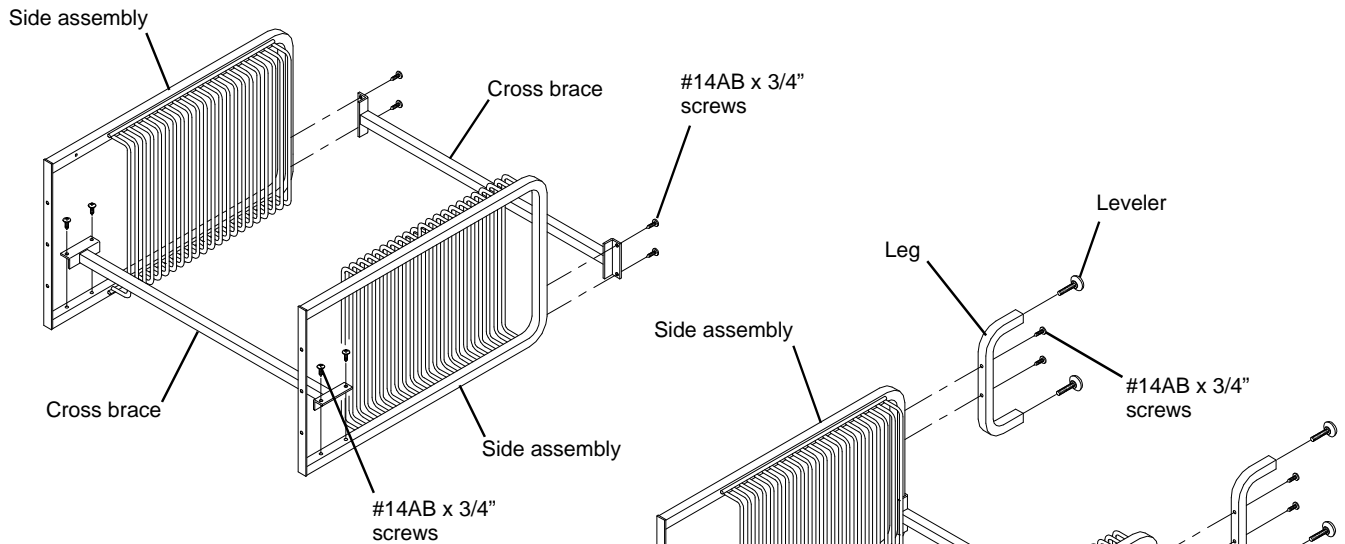


Figure 1

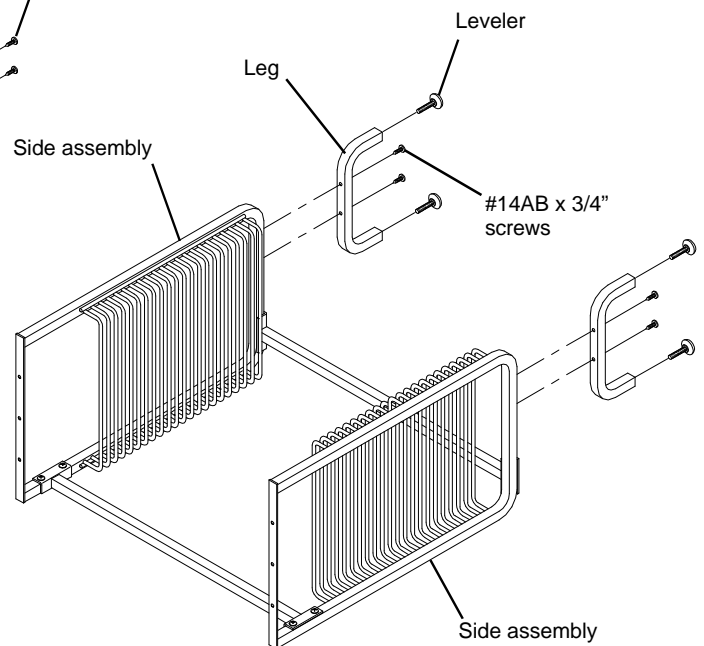


Figure 2

3. Turn the assembly upright and position it underneath the viewport cutout in the Worksurface. Align the holes in the Top Rails with the corresponding holes in the Worksurface and attach with the #14AB x 3/4" screws provided. See **Figure 3**.
4. Attach the **Tracks** to the underside of the Worksurface by aligning the holes in the Tracks with the corresponding holes in the Worksurface (or stiffener on a 30" Linx Worksurface) and securing with the #6AB x 5/8" screws provided. **Note:** One end of each Track is painted black; this end must be to the front of the Worksurface. See **Figure 4**.

Install a **Rubber Stop** in the center hole at the rear of each Track with the #6AB x 5/8" screws provided.

5. Install the **Keyboard Drawer** by sliding the two brackets into the Tracks installed in step 5. Push the Drawer all the way to the rear of the Tracks and install a Rubber Stop in the center hole at the front of each Track with the #6AB x 5/8" screws provided. See **Figure 5**.

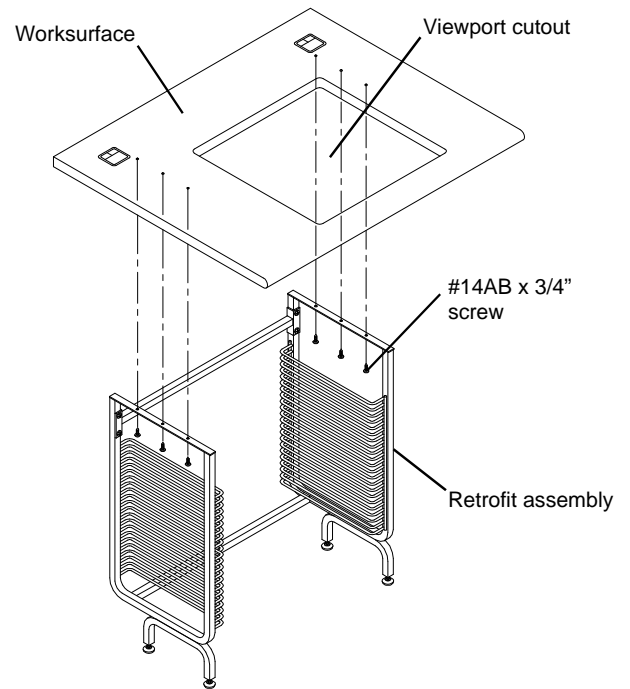


Figure 3

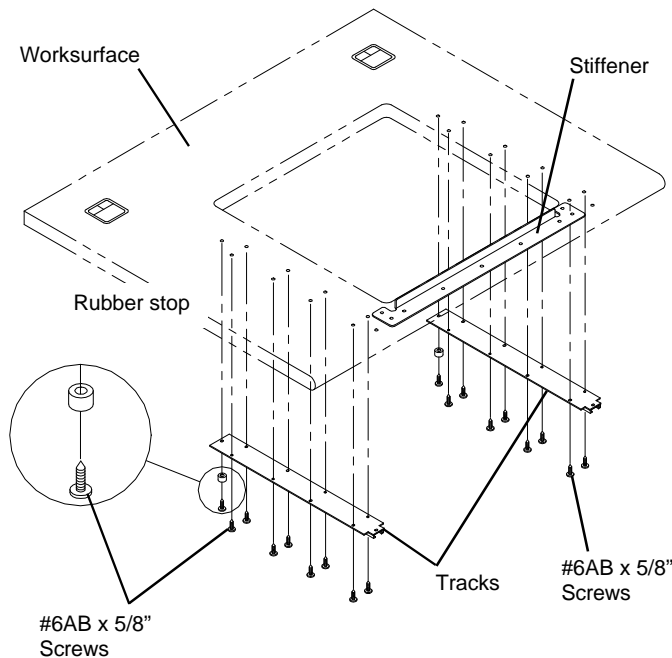


Figure 4

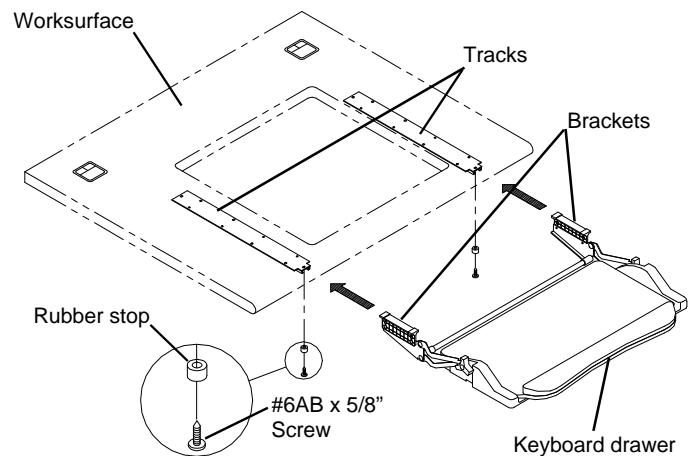


Figure 5

6. Install **Trim Ring** by snapping pieces together, lowering into cut-out and attaching with four #6AB x 5/8" screws provided. See **Figure 6**.

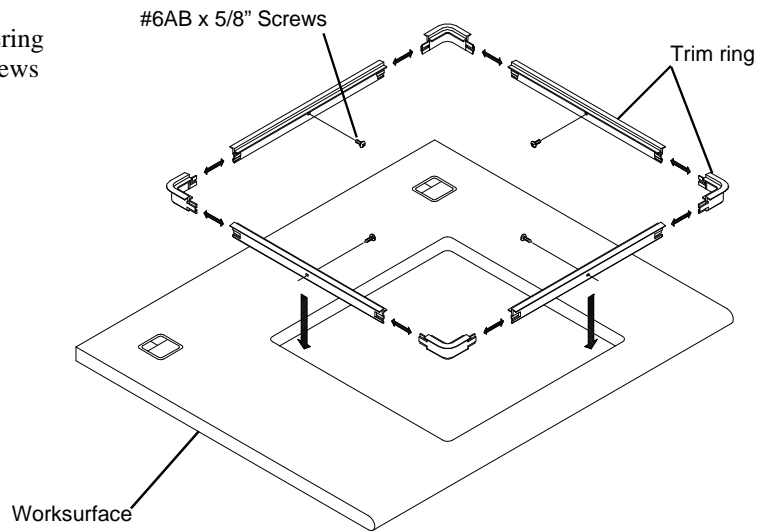


Figure 6

7. Attach the **Adjustable Mousing Surface** to the keyboard drawer using the pre-drilled holes and four #10AB x 5/8" phillips head screws provided. See **Figure 7**.

**NOTE:** The mousing surface can be attached to either the right hand or the left hand side of the drawer.

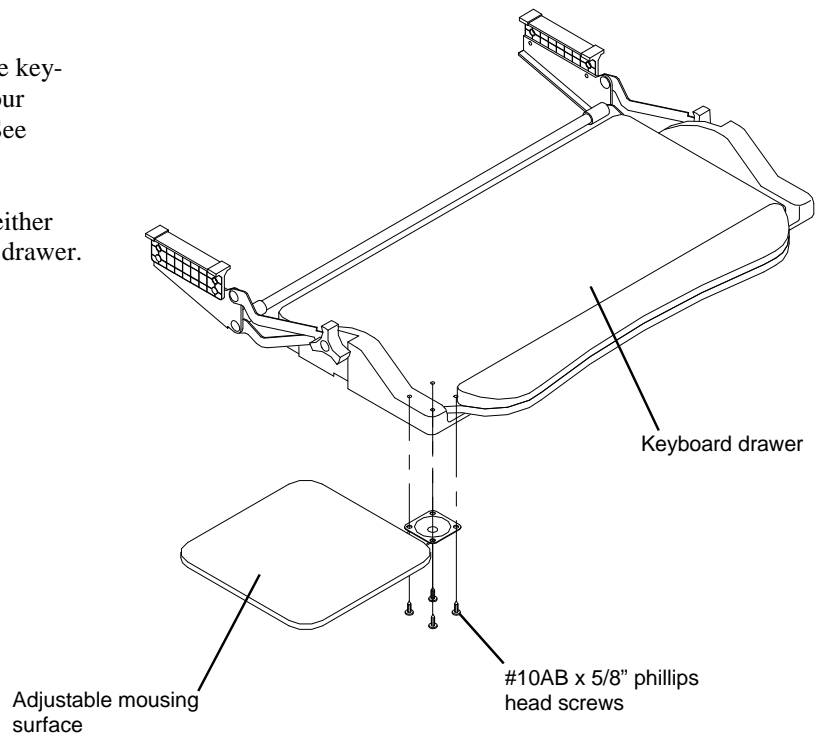


Figure 7

## MONITOR SUPPORT INSTALLATION

**NOTE:** The **Monitor Support** adjusts three ways - for height, angle and forward/backward. Adjust it so that you have a comfortable viewing angle of the monitor when you're in a normal working position.

1. The **Monitor Support** is installed using the plastic **Tracking Blocks**. See **Figure 8**, detail a. For standard size monitors, a good starting point is nine bars down (rest the bottom of a Tracking Block on the ninth bar down from the top) and seven bars up (rest the bottom of a Tracking Block on the seventh bar from the bottom). **NOTE:** Do not install the security screws at this time.
2. With the assistance of another person, lower the monitor through the viewport opening while allowing wires to feed through the back of the **Monitor Support**.

3. To make angle adjustments, move either the top or bottom **Tracking Blocks** independently of each other. For height adjustments, move both bottom and top **Tracking Blocks**. To adjust the viewing distance, simply slide the **Monitor Support** forward or backward. When the adjustments are completed, install the #6AB x 5/8" Security screws. See **Figure 8**.
4. Carefully install the **Viewport Glass** into the viewport opening.

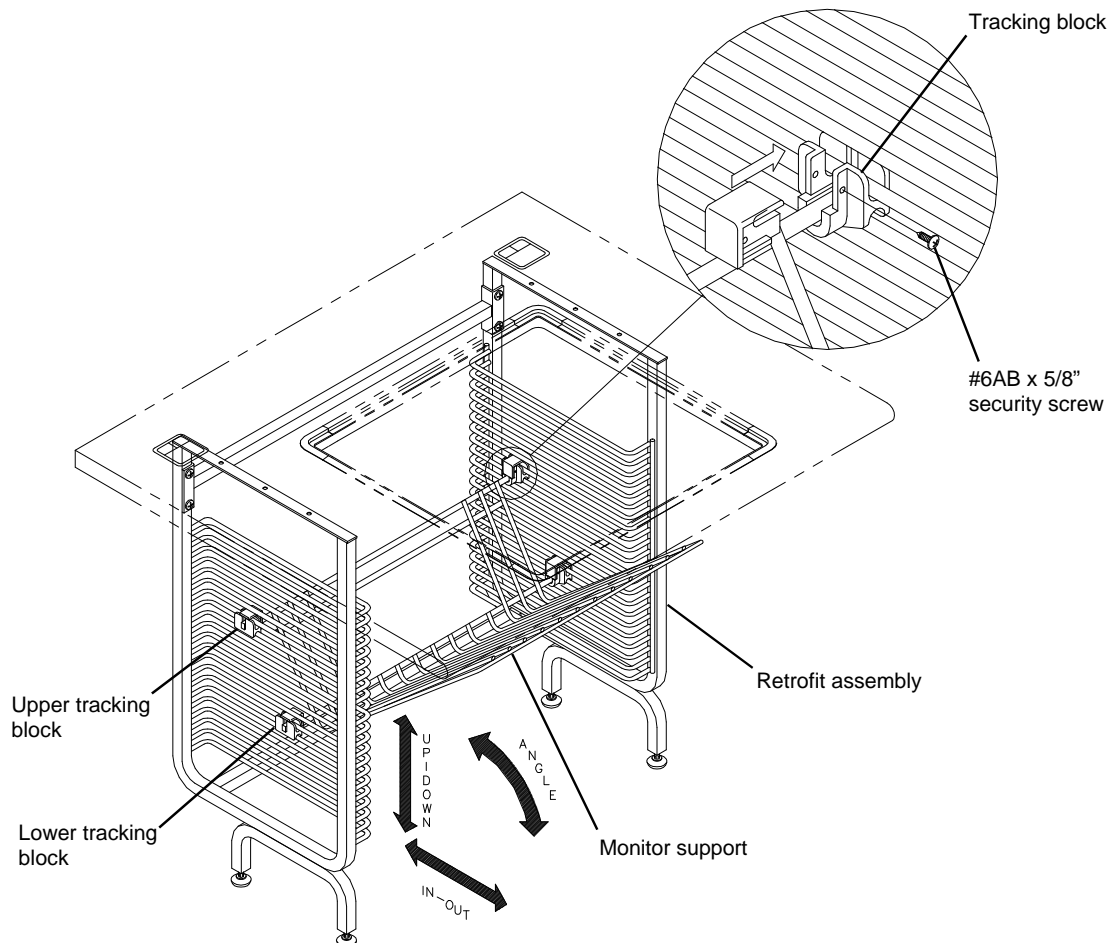


Figure 8

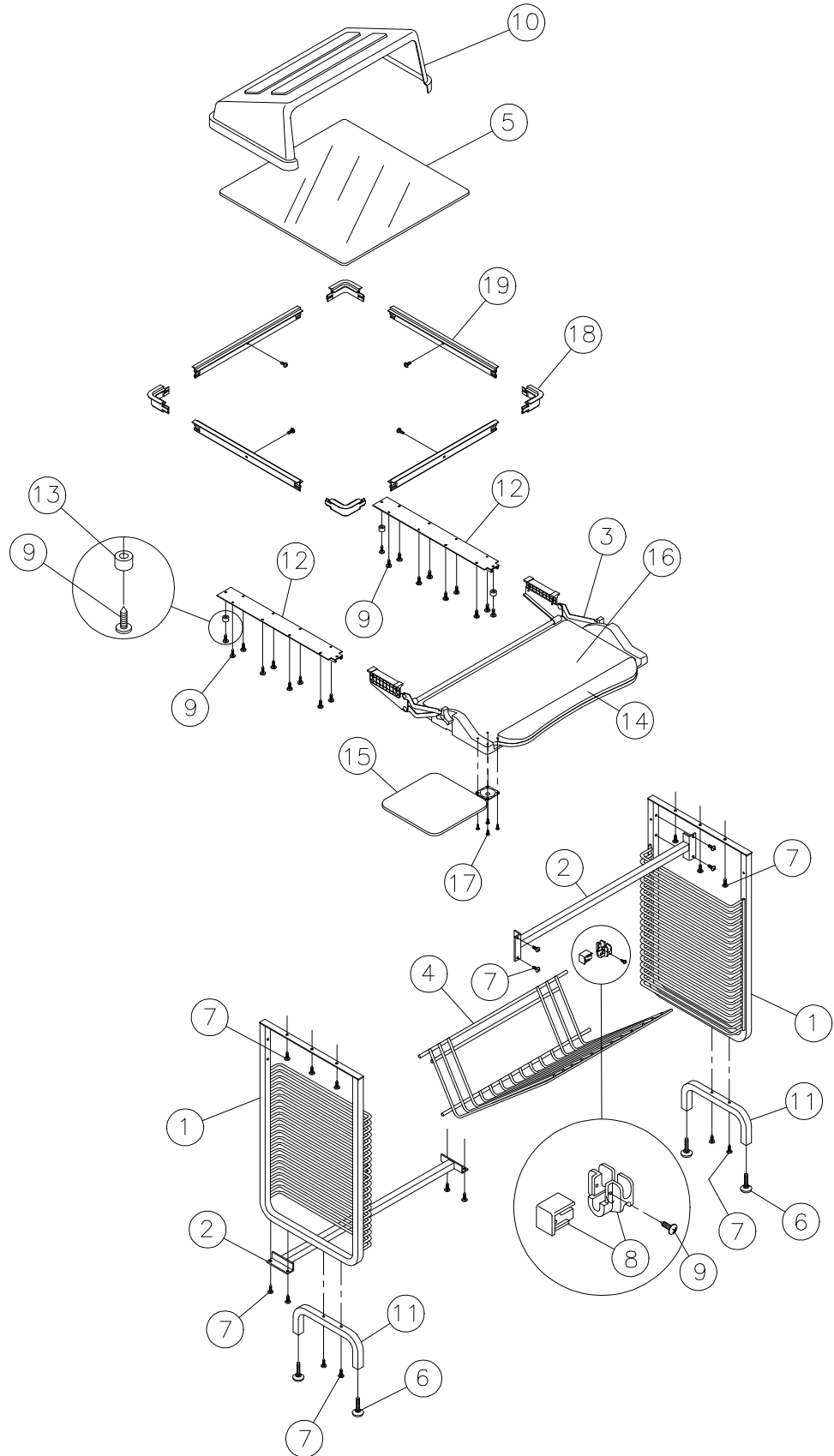
technical furniture

# Retrofit Kit Nova (cont.)

| <b>Parts List</b> |            |   |      |
|-------------------|------------|---|------|
| Part Number       |            | Description   | Qty. |
| <b>1</b>          | 5001818-02 | Side Assembly   | 2    |
| <b>2</b>          | 5001818-03 | Cross Brace   | 2    |
| <b>3</b>          |            | Keyboard Drawer   | 1    |
| <b>4</b>          | 5001818-06 | Monitor Support   | 1    |
| <b>5</b>          | 5001818-07 | Viewport Glass  | 1    |
| <b>6</b>          | 5001818-08 | Leveler   | 4    |
| <b>7</b>          | 5001818-11 | #14AB x 3/4" Screw (Cross Braces, Legs and Worksurface) | 18   |
| <b>8</b>          | 5001818-12 | Tracking Block  | 4    |
| <b>9</b>          | 5001818-13 | #6AB x 5/8" Screws (Tracks, security)                   | 24   |
| <b>10</b>         | 5001818-14 | Visor   | 1    |
| <b>11</b>         | 5001818-15 | Leg   | 2    |
| <b>12</b>         | 22784      | Track   | 2    |
| <b>13</b>         | 22289      | Rubber Stop   | 4    |
| <b>14</b>         | 24968      | Palm Rest   | 1    |
| <b>15</b>         | X29408C    | Adjustable Mousing Surface                              | 1    |
| <b>16</b>         | X29409A    | Keyboard Tray   | 1    |
| <b>17</b>         | 82287      | #10AB x 5/8" Phillips Pan Head Thread Forming Screws    | 4    |
| <b>18</b>         | 50900034   | Trim Ring Corner  | 4    |
| <b>19</b>         |            | Trim Ring Straight - Oversize                           | 4    |
|                   | 50900037   | Trim Ring Straight - Standard                           |      |

technical furniture

# Retrofit Kit Nova (cont.)



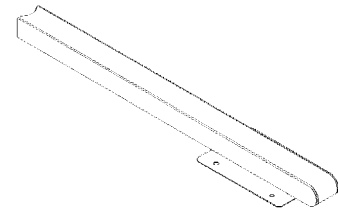
**Tools Required**

- Phillips head screwdriver
- Electric drill
- 1/8" Drill bit

**NOTE:** This **Surface Filler** is designed to be compatible with Standard Uprights only. It is not compatible with Enhanced Uprights.

1. Fasten the **Mounting Plate** to the Surface Filler using two of the #10 Phillips head screws provided. See **Figure 1**.

2. Position the Surface Filler Assembly between two surfaces and flush off the fronts.
3. Mark the four hole locations and remove the Filler Assembly.
4. Drill four 1/8" diameter holes 1/2" deep.
5. Install the Filler Assembly with the four remaining #10 phillips head screws. See **Figure 2**.



Surface Filler

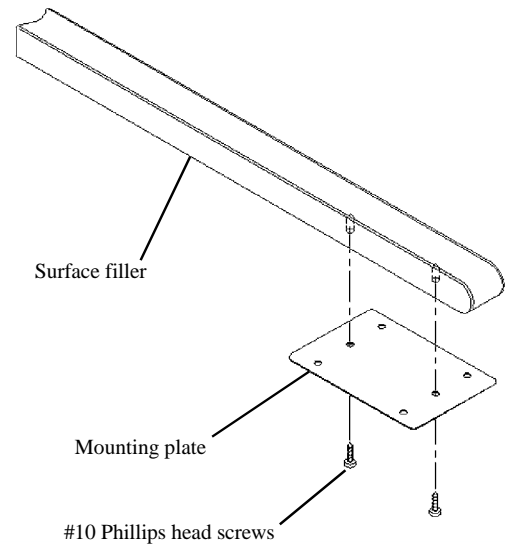


Figure 1

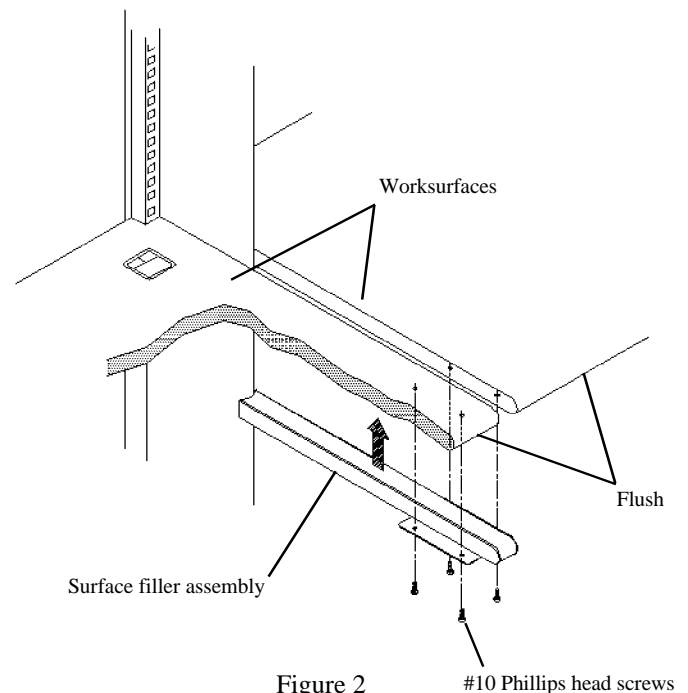


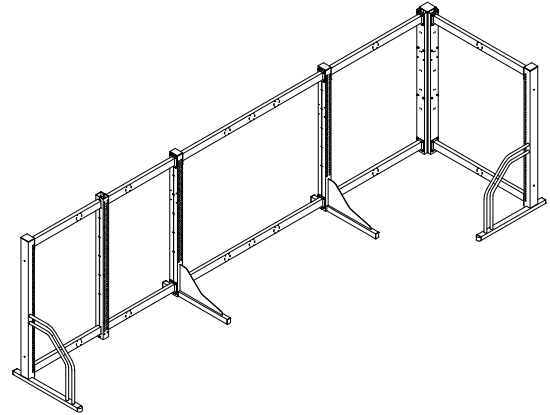
Figure 2

## technical furniture

Please read these instructions carefully and follow the installation steps in sequence.

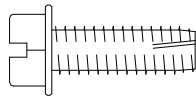
### Tools Required

- 3/8" Wrench
- 5/32" Allen wrench
- 1/8" Allen wrench
- Level
- Leveling wrench (provided)

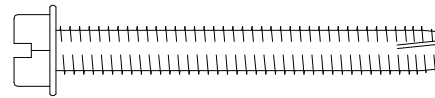


LMS Foundations

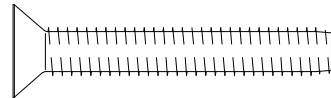
### Fasteners That You Will Be Using



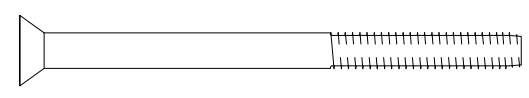
**#87551**  
1/4"-20 x 3/4" Hex Washer Head  
Thread Cutting Screw (Black)



**#87554**  
1/4"-20 x 2.00" Hex Washer Head  
Thread Cutting Screw (Black)



**#87552**  
1/4"-20 x 1-1/2" Flat Head  
Socket Cap Screw (Black)



**#87553**  
#10-24 x 2-1/2" Flat Head  
Socket Cap Screw (Black)

### IMPORTANT SAFETY INSTRUCTIONS

1. Maximum loading:

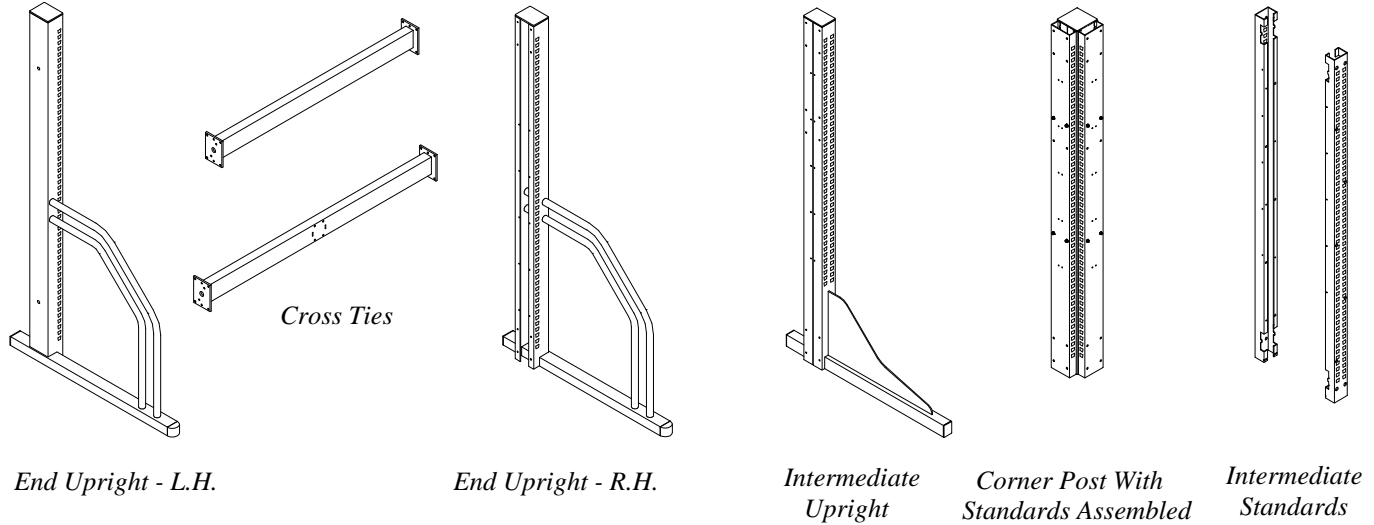
1500 lbs. per section (Evenly distributed loads on worksurfaces and shelving.)

2. A minimum of two people are required for assembly.

3. If the wall option with reduced foot on back of upright is being installed, special care must be taken during assembly to prevent the unit from falling over backwards. To avoid this, the unit should be assembled against a wall or supported at the rear during assembly.



## Frame Components



**NOTE:** If a single free standing unit is being assembled, (1) left hand and (1) right hand **End Upright** will be used.

If add-on sections are part of the installation, **Intermediate Upright(s)** will be used with the left and right hand End Uprights. The End Uprights are placed at each end of the installation.

## FRAME ASSEMBLY - INITIAL SECTION

1. Lay one **End Upright** on the floor as shown in **figure 1**.
2. With two people, attach each **Cross Tie** to the End Upright with four 1/4"-20 x .75" hex washer head thread cutting screws.

**NOTE:** Attach the Cross Ties with the two smaller dia. holes (.260 dia.) in the end plates toward front of the unit.

Tighten all screws securely.

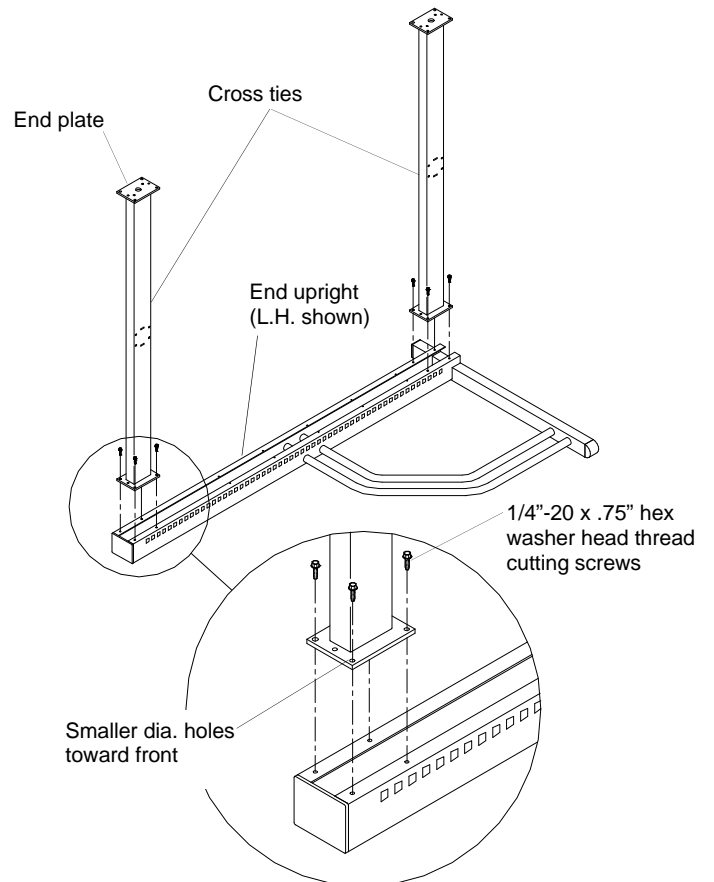


Figure 1

## FRAME ASSEMBLY - INITIAL SECTION (cont.)

3. With two people, position the second End Upright vertically and attach the previously assembled upright and Cross Ties to it with eight 1/4"-20 x .75" hex washer head thread cutting screws. See **figure 2**.

**NOTE:** A free standing unit is shown with L.H and R.H. End Uprights. If mutiple sections are being assembled, one of the End Uprights would be replaced with an **Intermediate Upright**.

## FRAME ASSEMBLY - ADD-ON SECTIONS

1. Place the Initial Assembly in it's final location. Additional sections can be added by repeating steps 1 thru 3. See **figure 3**.

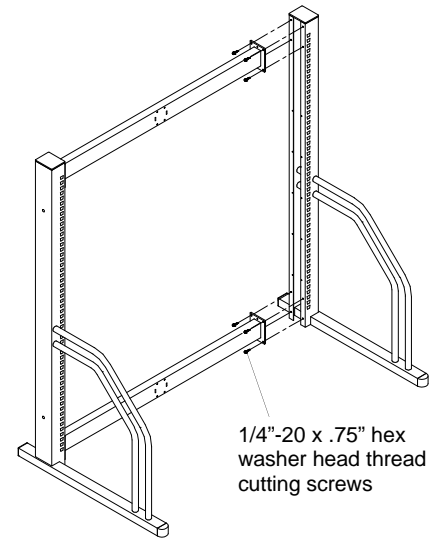
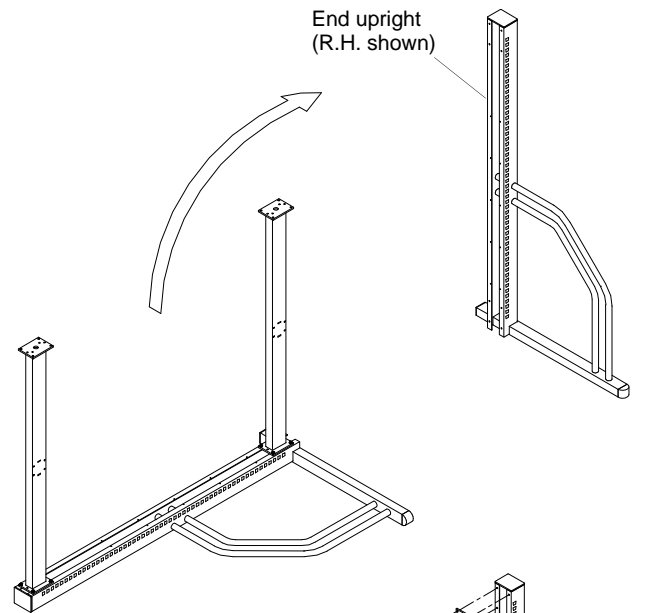


Figure 2

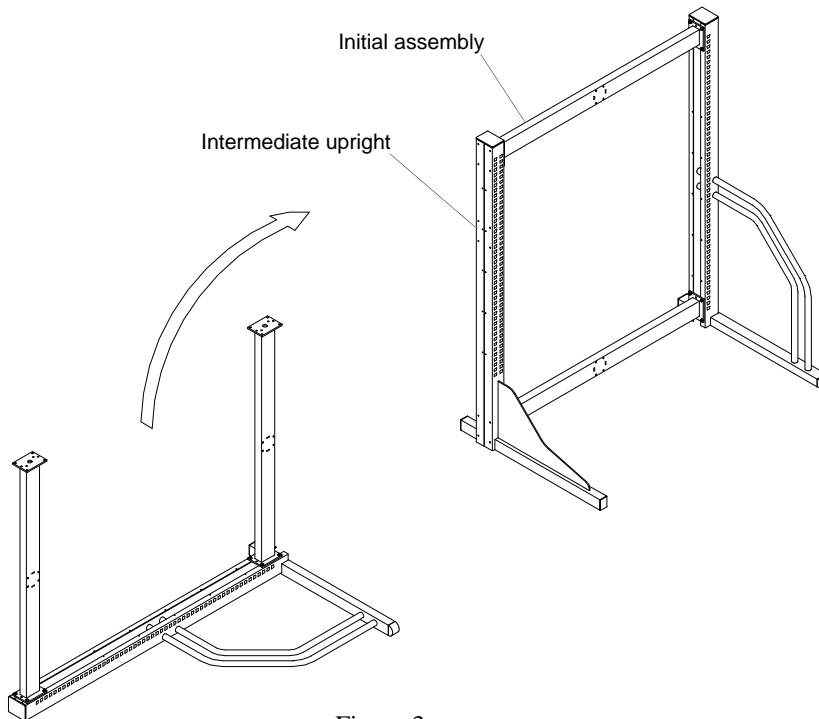


Figure 3

## FRAME ASSEMBLY - CORNER SECTIONS

The LMS Foundations System can be assembled in various corner configurations. See **figure 4**.

1. Attach the appropriate quantity of **Standards** to the **Corner Post** with the 1/4"-20 x 2.00" hex washer head thread cutting screws and tighten securely. See **figure 5**. **DO NOT** install screws in the top four holes and bottom four holes at this time.

**NOTE:** Use two screws for each of the remaining four hole patterns.

"L" Configuration = (2) Standards

"T" Configuration = (3) Standards

"X" Configuration = (4) Standards

2. Attach the top and bottom Cross Ties to one Standard in the same manner as step 1 thru 3 with eight 1/4"-20 x 2.00" hex washer head thread cutting screws. See **figure 6**. Tighten securely.
3. Unscrew the leveler until it extends .375" (3/8") past the bottom of the corner post. See **Figure 6**.

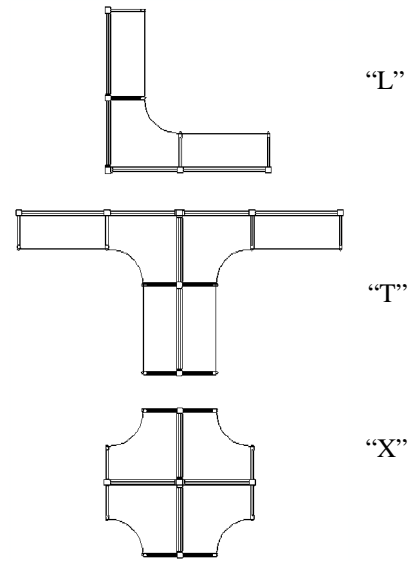


Figure 4

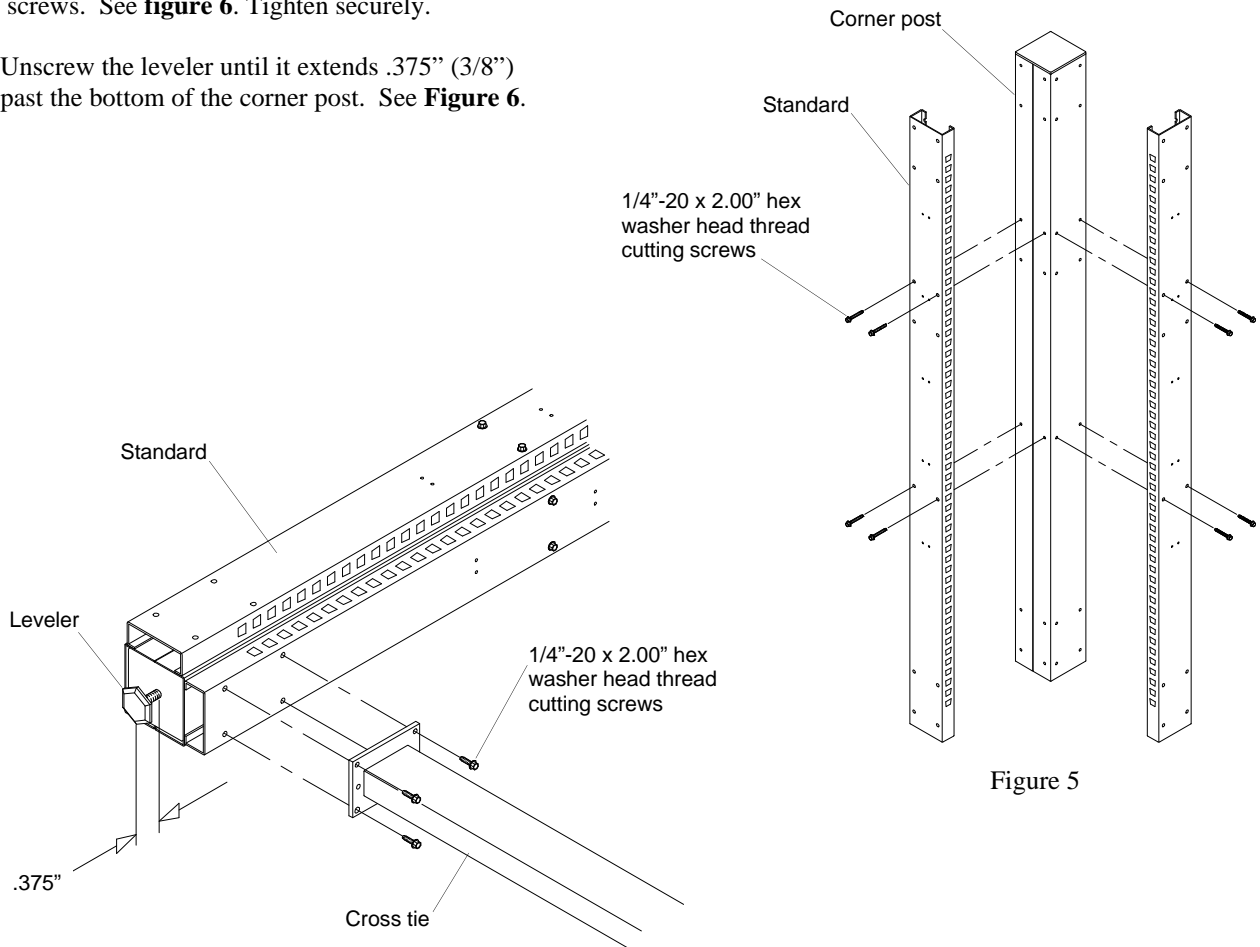


Figure 5

Figure 6

4. Stand the Corner Post assembly up and attach the Cross Ties to the linear unit with eight 1/4"-20 x 2.00" hex washer head thread cutting screws and tighten securely. See **figure 7**.
5. Continue adding sections using the methods shown in steps 1 thru 4.
6. Check all screws to ensure that they have been fully tightened.
7. Adjust the levelers as necessary to level the unit.

## INTERMEDIATE STANDARDS

The 48", 60" and 72" wide units can be segmented into the following modules.

48" Unit = (2) 24" Modules

60" Unit = (2) 30" Modules

72" Unit = (3) 24" Modules  
 = (2) 36" Modules  
 = (1) 24" Module, (1) 48" Module

1. Locate the appropriate hole patterns in the Cross Ties and attach the two **Intermediate Standard** halves to the top/bottom Cross Ties with eight 1/4"-20 x 1-1/2" flat head socket cap screws and tighten securely. See **figure 8**.
2. Complete the assembly by installing #10-24 x 1-1/2" flat head socket cap screws at the pre-punched locations on both the front and back halves of the Intermediate Standards and tighten securely. See **figure 8**.
3. Adjust the leveler(s) at the bottom of the Intermediate Standard(s).

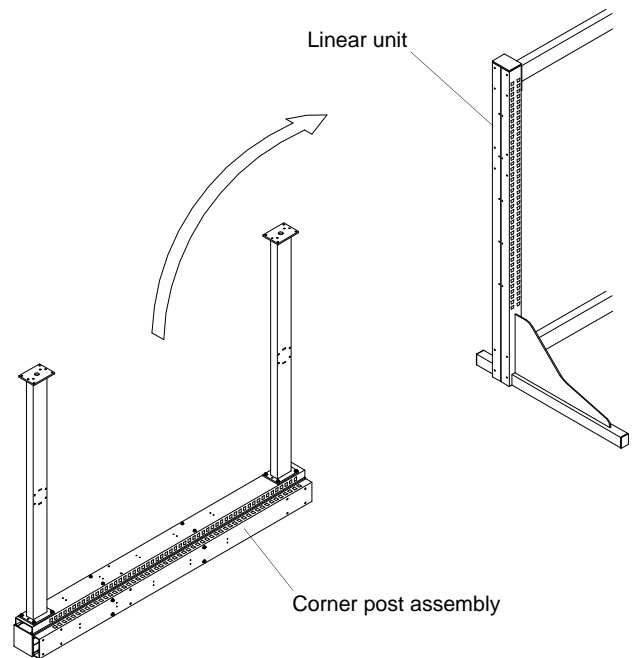


Figure 7

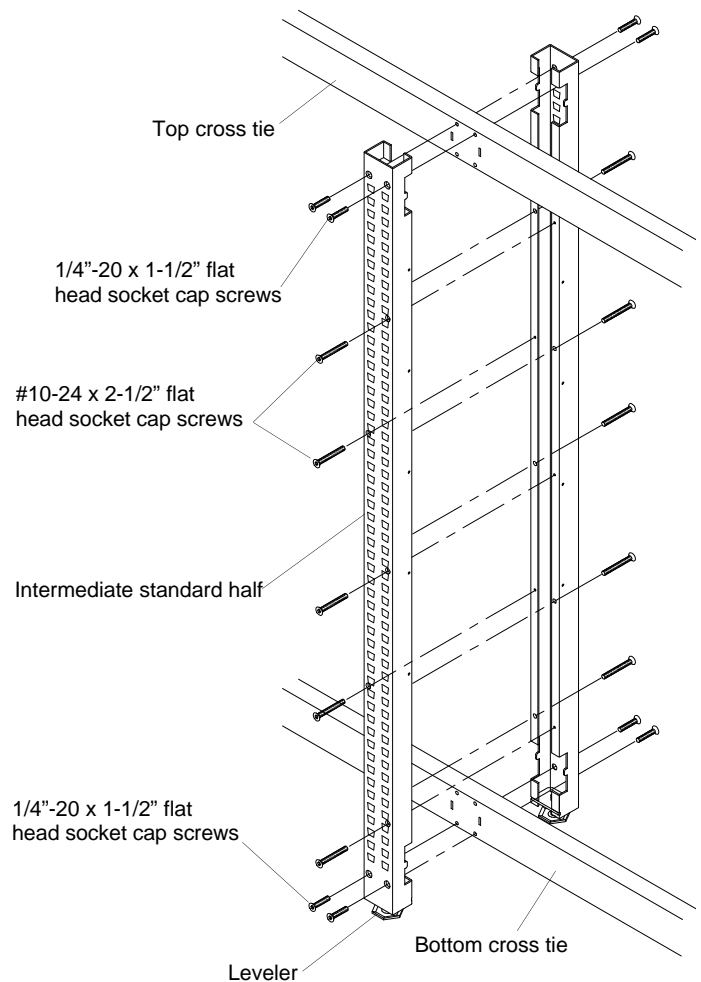


Figure 8

technical furniture

# L M S Foundations

## ( c o n t . )

| <b>Parts List</b> |             |  |   |
|-------------------|-------------|--|---|
| Part Number       | Description | Qty.                                   |   |
| <b>1</b>          | 9027X       | Ass'y, 61" End Upright - L.H. 31" Deep | 1 |
|                   | 9029X       | Ass'y, 72" End Upright - L.H. 31" Deep |   |
|                   | 9031X       | Ass'y, 84" End Upright - L.H. 31" Deep |   |
|                   | 9033X       | Ass'y, 61" End Upright - L.H. 40" Deep |   |
|                   | 9035X       | Ass'y, 72" End Upright - L.H. 40" Deep |   |
|                   | 9037X       | Ass'y, 84" End Upright - L.H. 40" Deep |   |
|                   | 9139X       | Ass'y, 61" End Upright - L.H. 27" Deep |   |
|                   | 9141X       | Ass'y, 72" End Upright - L.H. 27" Deep |   |
|                   | 9143X       | Ass'y, 84" End Upright - L.H. 27" Deep |   |
|                   | 9145X       | Ass'y, 61" End Upright - L.H. 36" Deep |   |
|                   | 9147X       | Ass'y, 72" End Upright - L.H. 36" Deep |   |
|                   | 9149X       | Ass'y, 84" End Upright - L.H. 36" Deep |   |
| <b>2</b>          | 9028X       | Ass'y, 61" End Upright - R.H. 31" Deep | 1 |
|                   | 9030X       | Ass'y, 72" End Upright - R.H. 31" Deep |   |
|                   | 9032X       | Ass'y, 84" End Upright - R.H. 31" Deep |   |
|                   | 9034X       | Ass'y, 61" End Upright - R.H. 40" Deep |   |
|                   | 9036X       | Ass'y, 72" End Upright - R.H. 40" Deep |   |
|                   | 9038X       | Ass'y, 84" End Upright - R.H. 40" Deep |   |
|                   | 9140X       | Ass'y, 61" End Upright - R.H. 27" Deep |   |
|                   | 9142X       | Ass'y, 72" End Upright - R.H. 27" Deep |   |
|                   | 9144X       | Ass'y, 84" End Upright - R.H. 27" Deep |   |
|                   | 9146X       | Ass'y, 61" End Upright - R.H. 36" Deep |   |
| <b>3</b>          | 9105X       | Ass'y, 61" Double End Upright          | 1 |
|                   | 9106X       | Ass'y, 72" Double End Upright          |   |
|                   | 9107X       | Ass'y, 84" Double End Upright          |   |

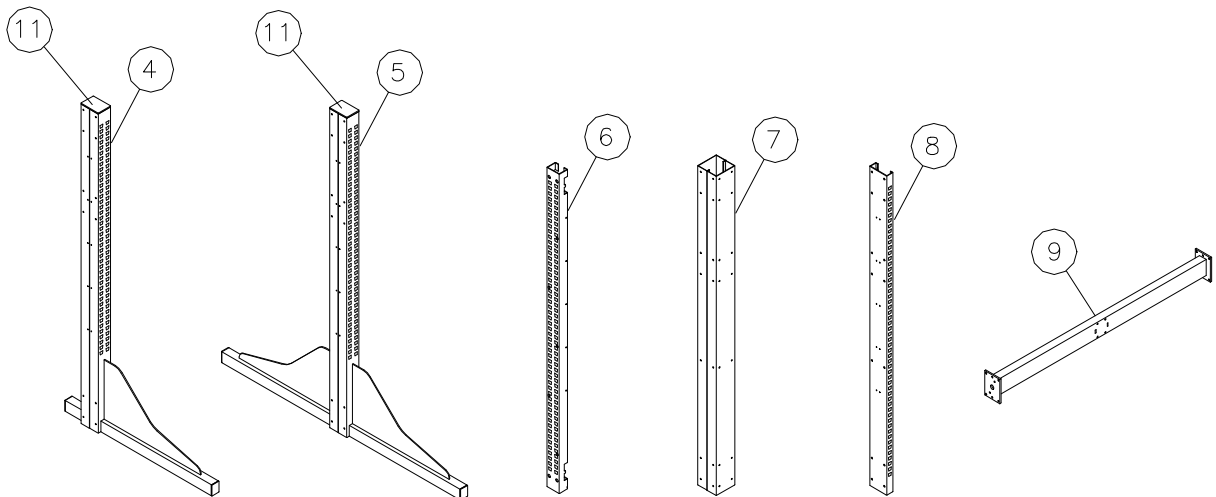
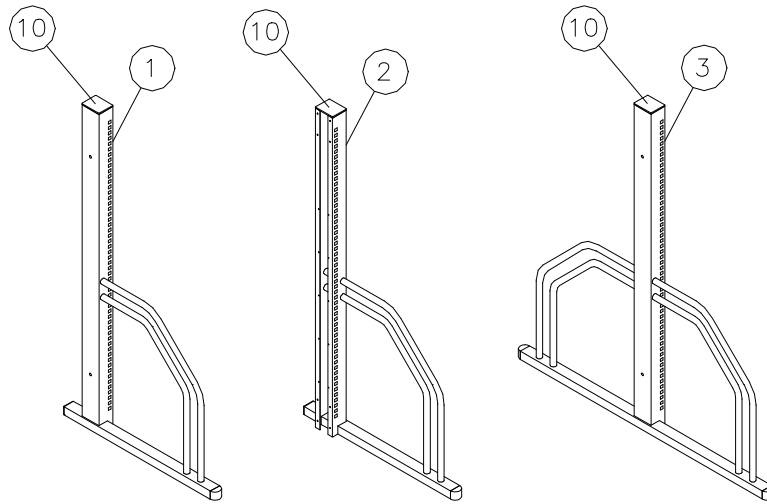
technical furniture

# L M S Foundations

## ( c o n t . )

| <b>Parts List</b> |             |   |   |
|-------------------|-------------|---|---|
| Part Number       | Description | Qty.  |   |
| <b>4</b>          | 9039X       | Ass'y, 61" Intermediate Upright, 31" Deep               | 1 |
|                   | 9040X       | Ass'y, 72" Intermediate Upright, 31" Deep               |   |
|                   | 9041X       | Ass'y, 84" Intermediate Upright, 31" Deep               |   |
|                   | 9042X       | Ass'y, 61" Intermediate Upright, 40" Deep               |   |
|                   | 9043X       | Ass'y, 72" Intermediate Upright, 40" Deep               |   |
|                   | 9044X       | Ass'y, 84" Intermediate Upright, 40" Deep               |   |
|                   | 9163X       | Ass'y, 61" Intermediate Upright, 27" Deep               |   |
|                   | 9164X       | Ass'y, 72" Intermediate Upright, 27" Deep               |   |
|                   | 9165X       | Ass'y, 84" Intermediate Upright, 27" Deep               |   |
|                   | 9166X       | Ass'y, 61" Intermediate Upright, 36" Deep               |   |
|                   | 9167X       | Ass'y, 72" Intermediate Upright, 36" Deep               |   |
|                   | 9168X       | Ass'y, 84" Intermediate Upright, 36" Deep               |   |
| <b>5</b>          | 9111X       | Ass'y, 61" Double Intermediate Double Upright, 31" Deep | 1 |
|                   | 9112X       | Ass'y, 72" Double Intermediate Double Upright, 31" Deep |   |
|                   | 9113X       | Ass'y, 84" Double Intermediate Double Upright, 31" Deep |   |
| <b>6</b>          | 9015X       | 61" Intermediate Standard                               | 2 |
|                   | 9016X       | 72" Intermediate Standard                               |   |
|                   | 9017X       | 84" Intermediate Standard                               |   |
| <b>7</b>          | 9009X       | 61" Corner Post   | 1 |
|                   | 9010X       | 72" Corner Post   |   |
|                   | 9011X       | 84" Corner Post   |   |
| <b>8</b>          | 9012X       | 61" Corner Standard                                     | 1 |
|                   | 9013X       | 72" Corner Standard                                     |   |
|                   | 9014X       | 84" Corner Standard                                     |   |

| Parts List  |       |                            |      |
|-------------|-------|----------------------------|------|
| Part Number |       | Description                | Qty. |
| <b>9</b>    | 9002X | 24" Cross Tie              | 1    |
|             | 9003X | 30" Cross Tie              |      |
|             | 9004X | 36" Cross Tie              |      |
|             | 9006X | 48" Cross Tie              |      |
|             | 9007X | 60" Cross Tie              |      |
|             | 9008X | 72" Cross Tie              |      |
| <b>10</b>   | 9045X | Cap - End Upright          | 1    |
| <b>11</b>   | 9047X | Cap - Intermediate Upright | 1    |



**BASIC PLUS PLUG CAP ACCESSORY**

The **Plug Cap** is a decorative cap for the End Panels of Tower, Electronics and General Purpose Shelves. To insert the Plug, simply place it over the exposed screw on the End Panel and push it on. Plug Caps are ordered as an optional accessory. See **Figure 1**.

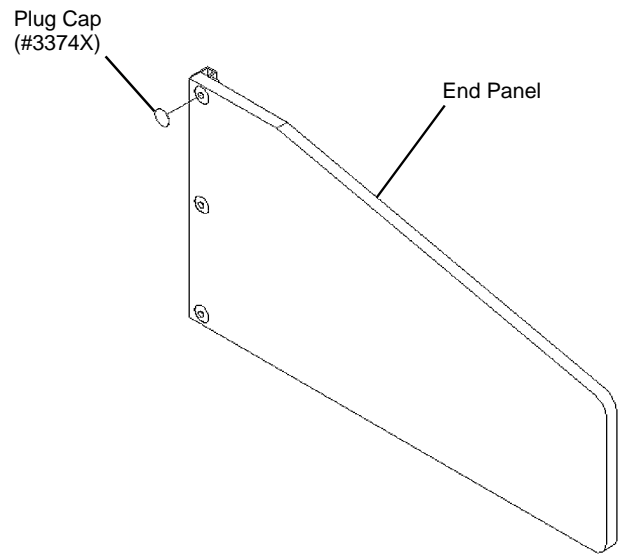


Figure 1



Please read these instructions carefully and follow the installation steps in sequence.

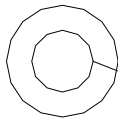
**Tools Required**

-1/4" Allen Wrench (provided)

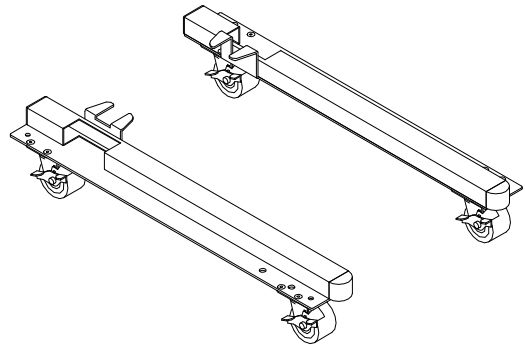
**Fasteners That You Will Be Using**



#68809  
5/16"-18 x 1.00" Socket Head  
Cap Screw



#18950  
Lockwasher



Caster Kit

1. With a minimum of two people, carefully position the Foundations frame on it's back. See figure 1.
2. Remove the two levelers from each foot.
3. Position the Caster Brackets as shown in figure 1 and attach each bracket to the bottom of each foot using the 5/16"-18 x 1.00" socket head cap screws and lockwashers provided. **Tighten securely.**

4. Engage the caster brakes and carefully return the unit to it's upright position.

**IMPORTANT**

Maximum loading of unit with casters is 1000 lbs.

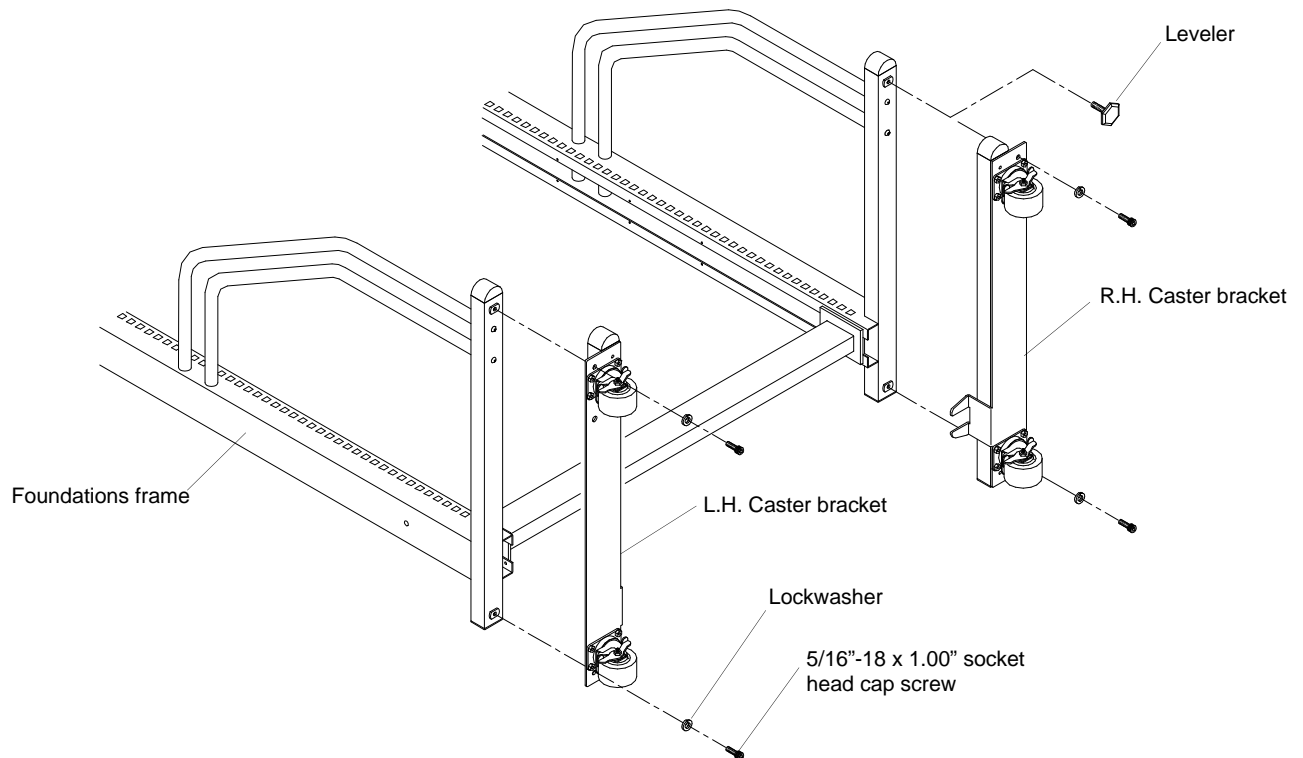


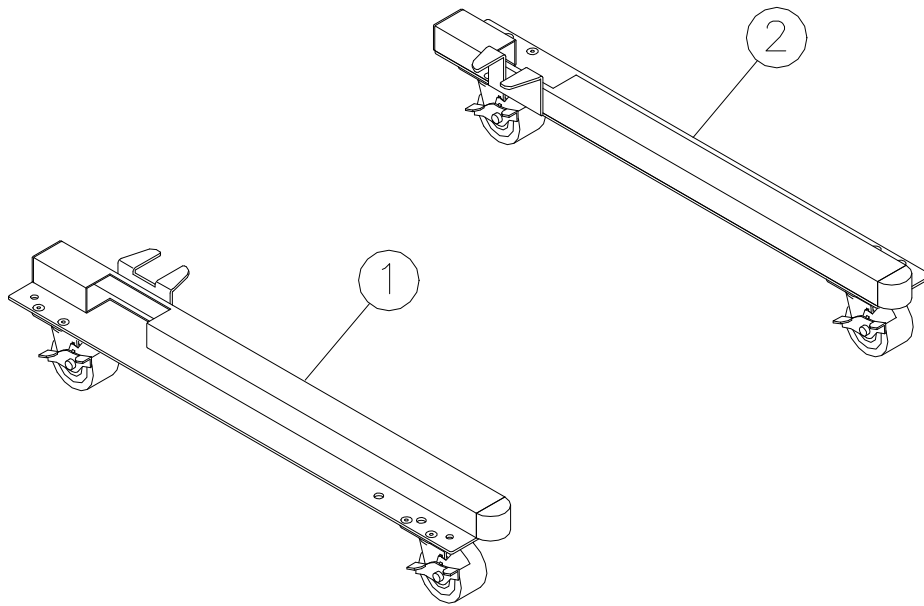
Figure 1

technical furniture

# LMS Foundations Caster Kit (cont.)

## Parts List

| Part Number | Description                        | Qty. |
|-------------|------------------------------------|------|
| 1           | 9185X L.H. Caster Bracket Assembly | 1    |
| 2           | 9186X R.H. Caster Bracket Assembly | 1    |



### Tools Required

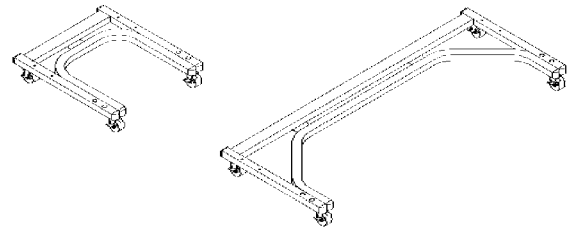
- 5/32" Allen wrench (provided)
- 1/4" Allen wrench (provided)

### UPRIGHT /MOBILE BASE ASSEMBLY

**Note:** Place the **Mobile Base** in an area with adequate floor space for the base and the Full Frame. This Base design requires two (2) Enhanced Uprights and a corresponding Frame.

Enhanced Uprights are shipped fully assembled. It is recommended to slide the Cover from the top of the Vertical Cable Management duct prior to assembly of the Upright to its frame. Remove the protective inner packing located inside the Vertical duct.

1. Remove the feet from **Enhanced Uprights**. The screws will be re-used. You may want to store the feet for future re-assembly should mobility no longer be required. See **Figure 1**.
2. Remove all of the plastic hole plugs from one side of an Upright. Remove them from the opposite side of the second Upright creating a left and right hand. See **Figure 1**. The hole plugs will not be re-used.
3. Re-assemble one Upright to the Mobile Base, keeping the side with no plugs to the inside. See **Figure 2**. **Insert the screws into the round tubes first**. Do not tighten the screws at this time. Slight movement may be needed when positioning the Full Frame.



24", 30", 36"  
Mobile Base

48" thru 72"  
Mobile Base

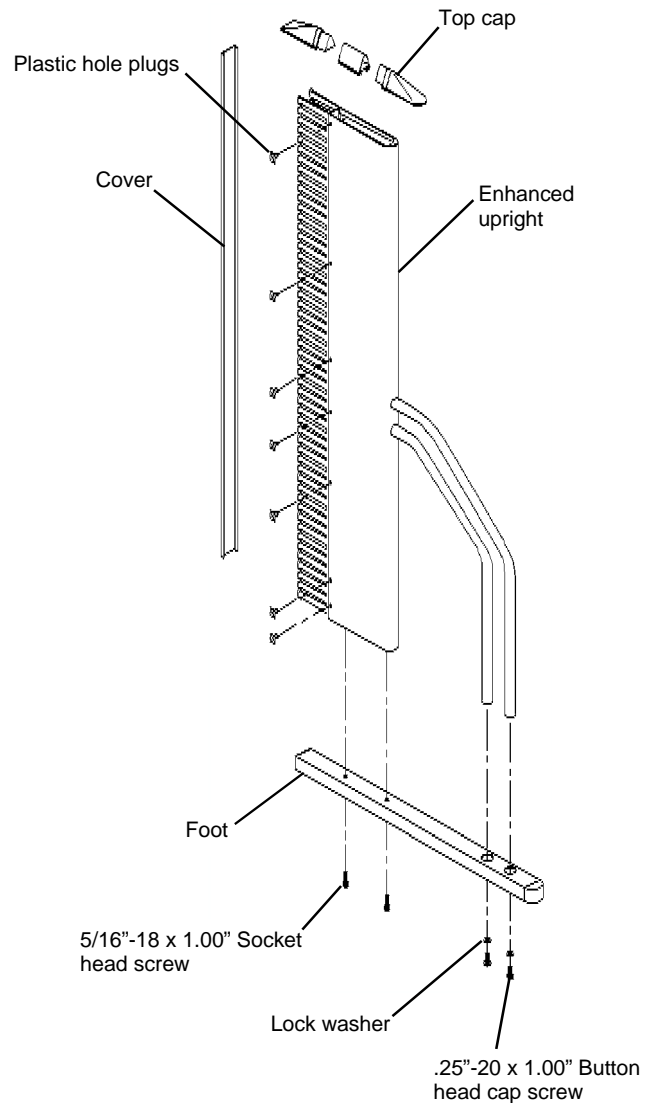


Figure 1

## FULL FRAME ASSEMBLY

Refer to page\_ for Full Frame assembly.

## FRAME TO UPRIGHT ASSEMBLY

**NOTE:** The rear of the **Mobile Base** has a straight tube and spaced from it, a formed tube. The tubes are joined by two steel plates. The Full Frame is positioned on these plates and between the tubes. See **Figure 3a**.

1. Place the **Full Frame** onto the Mobile Base. Be sure that the Wright Line logo faces front. Align the vertical holes in the Frame end with the holes in the Upright and attach with the 1/4"-20 x 1-1/2" screws packaged with the Full Frame. See **Figure 3b**.
2. Assemble the second Upright to the Mobile Base and Frame. Install and tighten all the screws. See **Figure 3b**.
3. Re-install the **Top Caps** and **Cable Management Covers**.

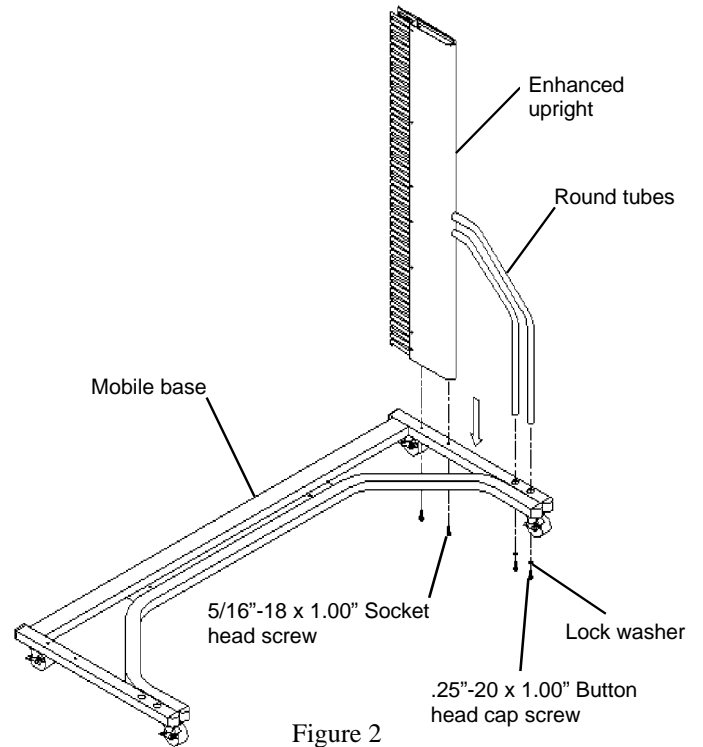


Figure 2

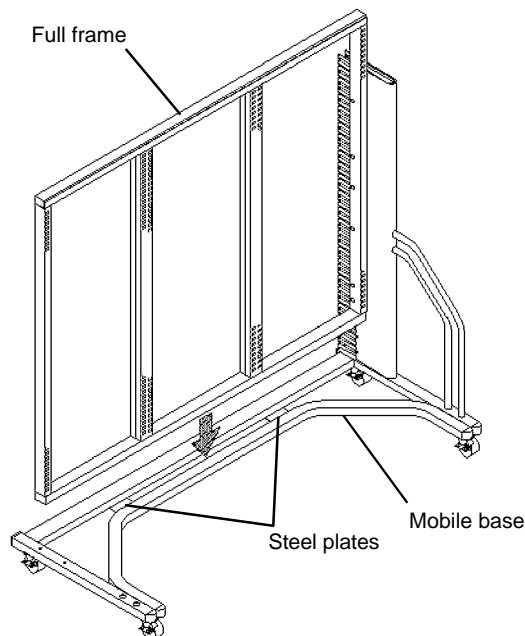


Figure 3a

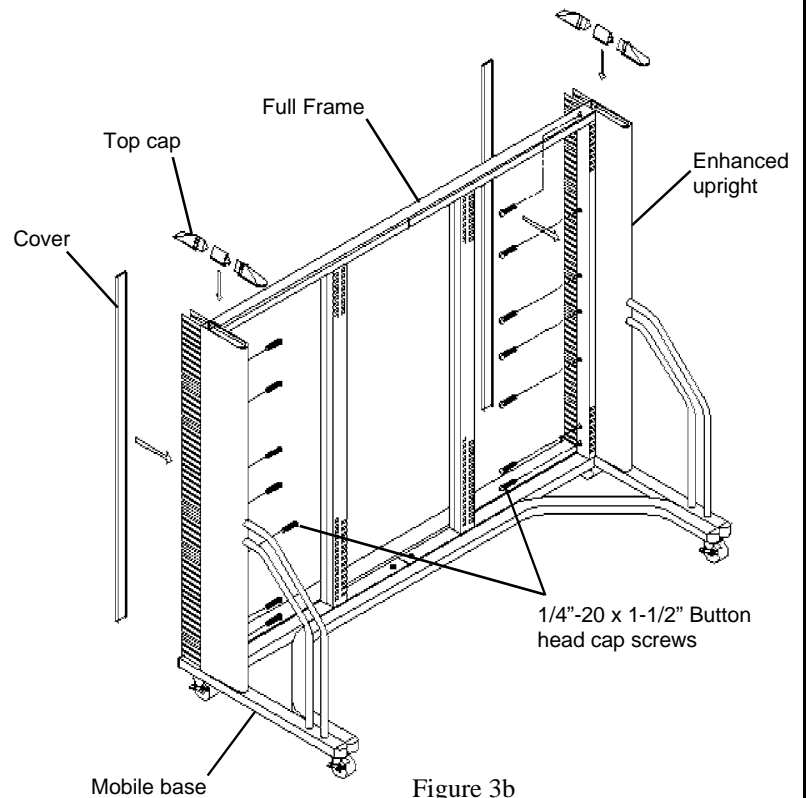
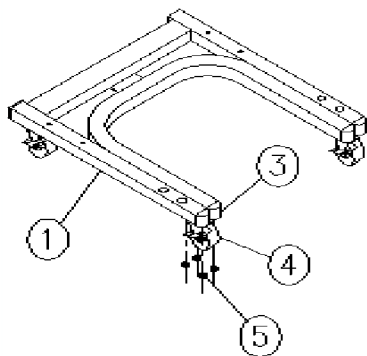


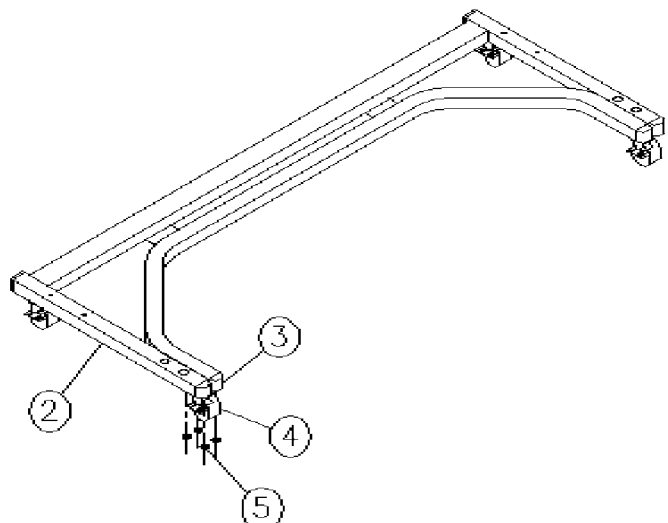
Figure 3b

# Open Mobile Base (cont.)

| Parts List  |       |                              |         |
|-------------|-------|------------------------------|---------|
| Part Number |       | Description                  | Qty.    |
| <b>1</b>    | 3511X | Mobile Base, 24" x 31" Deep  | 1       |
|             | 3512X | Mobile Base, 30" x 31" Deep  |         |
|             | 3513X | Mobile Base, 36" x 31" Deep  |         |
|             | 3515X | Mobile Base, 48" x 31" Deep  |         |
|             | 3518X | Mobile Base, 24" x 40" Deep  |         |
|             | 3519X | Mobile Base, 30" x 40" Deep  |         |
|             | 3520X | Mobile Base, 36" x 40" Deep  |         |
|             | 3522X | Mobile Base, 48" x 40" Deep  |         |
| <b>2</b>    | 3516X | Mobile Base, 60" x 31" Deep  | 1       |
|             | 3517X | Mobile Base, 72" x 31" Deep  |         |
|             | 3523X | Mobile Base, 60" x 40" Deep  |         |
|             | 3524X | Mobile Base, 72" x 40" Deep  |         |
| <b>3</b>    | 1242X | End Cap                      | 2 Pairs |
| <b>4</b>    | 81728 | 3.00" Swivel Casster w/Brake | 4       |
| <b>5</b>    | 18209 | 1/4"-20 Keps Lock Nut        | 16      |



24"-48" Mobile Bases



60"-72" Mobile Bases

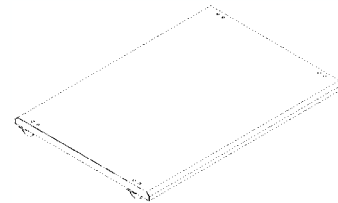
## SAFETY INSTRUCTIONS

1. The Frame and Upright Assembly must be unloaded prior to installation to the **Caster Base**.  
  
If the Caster Base is being installed onto a Frame configuration that is in use, the unit must be unloaded and partially unassembled.
2. A minimum of two people are required for the installation.
3. The Frame and Upright Assembly must be bolted to the Caster Base prior to use.
4. Assemble components and load the Frame unit from the bottom up.
5. Do not exceed the maximum load rating for individual components.
6. Do not exceed a total unit loading of 1500 lbs.(682Kg).

### Tools Required

-1/2" wrench

1. Position the **Caster Base** adjacent to the empty Frame unit and lock the four casters in place by rotating their individual brakes clockwise.
2. Remove the **Levelers** and **Foot Caps** from the Vertical Upright feet. See **Figure 1**. **NOTE:** If it is a **Full Frame Basic**, remove the Levelers and Front Caps only. Replace the removed caps with the **Angled Caps** packaged with the Caster Base. See **Figure 2**.
3. With a minimum of two people, lift the assembly and position it on the Caster Base. Fasten it to the Caster Base using the four 5/16"-18 x 2" Hex head machine screws and washers provided. Tighten securely with a 1/2" wrench. See **Figure 2**.



Caster Base

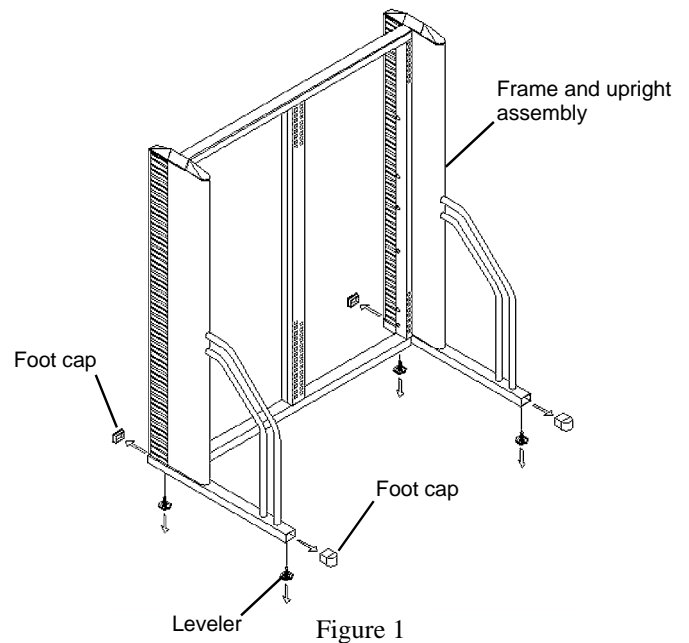


Figure 1

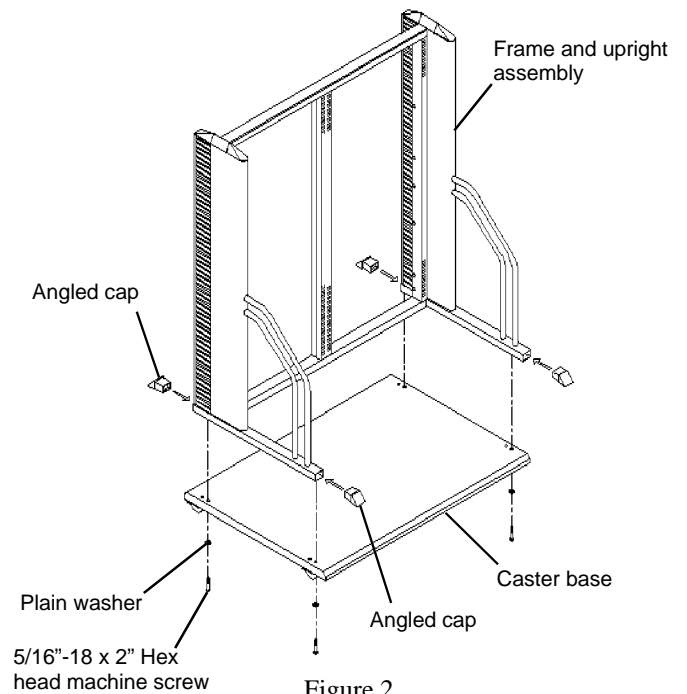


Figure 2

technical furniture

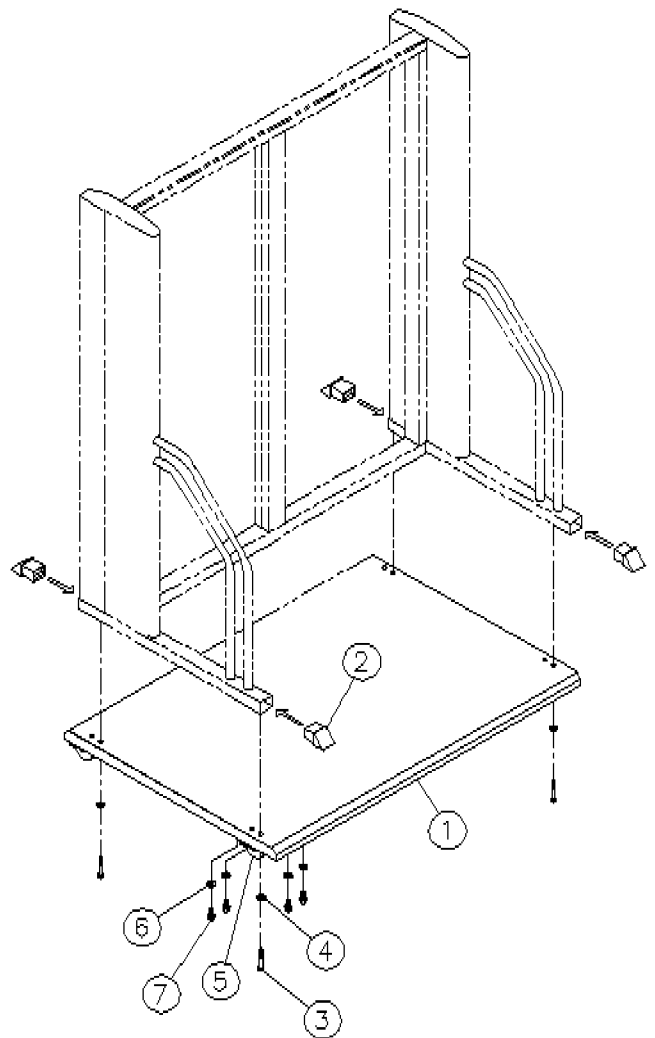
# Caster Base ( c o n t . )

## Parts List

| Part Number | Description           | Qty. |
|-------------|-----------------------|------|
| 2457X       | 24" Caster Base       | 1    |
| 2458X       | 30" Caster Base       |      |
| 2459X       | 36" Caster Base       |      |
| 2461X       | 48" Caster Base       |      |
| 2462X       | 60" Caster Base       |      |
| 2463X       | 72" Caster Base       |      |
| 2897X       | 24" x 40" Caster Base |      |
| 2898X       | 30" x 40" Caster Base |      |
| 2899X       | 36" x 40" Caster Base |      |
| 2900X       | 42" x 40" Caster Base |      |
| 2901X       | 48" x 40" Caster Base |      |
| 2902X       | 60" x 40" Caster Base |      |
| 2903X       | 72" x 40" Caster Base |      |

## Parts List

| Part Number | Description                                | Qty. |
|-------------|--|------|
| 2           | 3275X Foot Cap                             | 4    |
| 3           | 57403 5/16"-18 x 2.00" Hex Cap Screw       | 4    |
| 4           | 81710 5/16" Flat Washer                    | 4    |
| 5           | 81728 3.00" Swivel Caster w/ Brake         | 4    |
| 6           | 18950 Lock Washer                          | 16   |
| 7           | 54348 1/4"-20 x 1/2" Hex Washer Head Screw | 16   |

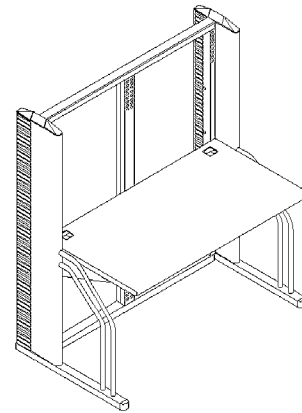


# Linear Hook-on Worksurfaces

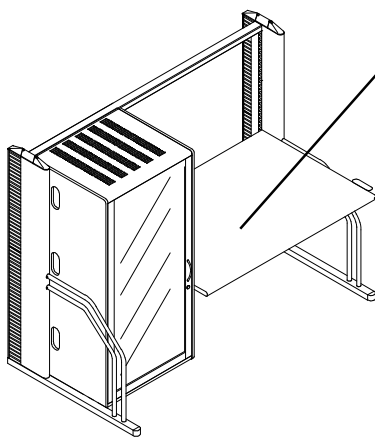
**Linear Hook-On Worksurfaces** come in three depths and seven lengths. Different worksurfaces have different requirements for installation that are outlined below. 27 inch deep tops require 31" deep uprights and standard hook-on support brackets. Configuration #1 is typical of a 27 inch deep surface.

### Tools Required

- Phillips head screwdriver with extension
- Rubber mallet
- 3/8" socket with extension
- Measuring device



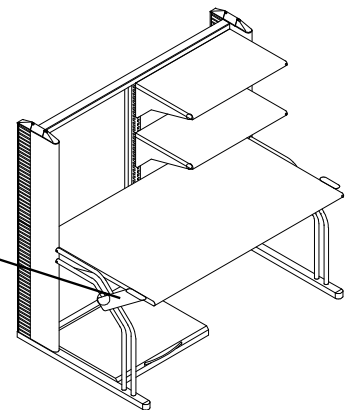
Configuration 1



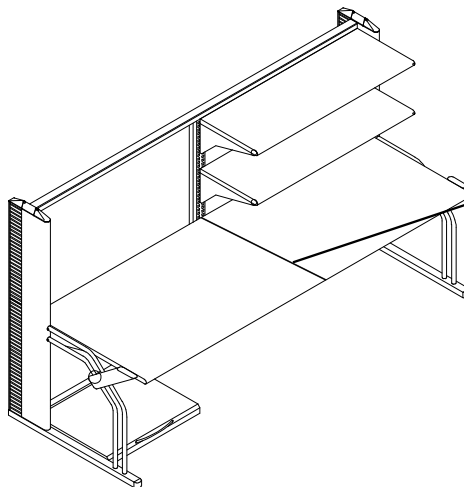
Configuration 2

Select one Extended Top Support (MA02) for 36" deep worksurfaces not next to an upright.

Use Upright Top Supports (MA01) to support 36" deep and 42" deep worksurfaces next to uprights



Configuration 3



Configuration 4

Select one set of Extended Top Supports (MA02) to support two adjoining 36" deep worksurfaces sharing a Full Open Frame



# Linear Hook-on Worksurfaces (cont.)

## Tools Required

- Phillips head screwdriver
- 3/8" Socket with extension
- Plastic mallet
- Measuring device

**Linear Hook-on Worksurfaces** can be installed at any height at one inch increments. The recommended Worksurface height is 29 or 30 inches off the floor.

There are three different configurations that 27 and 36 inch deep Hook-on Worksurfaces can be attached. Each configuration will vary in the installation procedure. Different depth Worksurfaces will require additional hardware when installed.

1. Determine what height the Worksurface will be by measuring from the floor to the top of the hook-on **Top Support Bracket** and adding 1.00 inch.
2. Attach the Top Support Bracket to the Full Frame and tap it into place with a plastic mallet to make sure the hooks are securely seated. See **Figure 1**.
3. Locate the small hole inside the back of the Top Support Bracket and insert the 1/4"-20 x 1/2" Hex head screw with a 3/8" socket. See **Figure 2**.

**If you are installing two worksurfaces on one Full Open Frame, Extended Top Support Brackets are needed. Refer to the next page before proceeding.**

**If the Hook-on Modesty Panel option is used, please go to page \_\_\_ for additional instructions.**

4. For Worksurfaces that are longer than 60" in length, a **Stiffener** needs to be installed. Position the Stiffener as shown in **Figure 2**. Attach the Stiffener to the Hook-on Top Support Brackets using the 1/4"-20 x 1/2" Machine screws.

**NOTE:** If you are installing the Worksurface with a **Modesty Panel**, the stiffener is not needed.

5. Position the Worksurface on the Top Support Brackets so it is flush with the frame and centered between the uprights. Make sure that all of the Top Support Brackets are at the same height. The holes in the brackets will correspond to pilot holes in the top. Secure the Worksurface to the brackets using the #10 AB x .75" Phillips head screws.

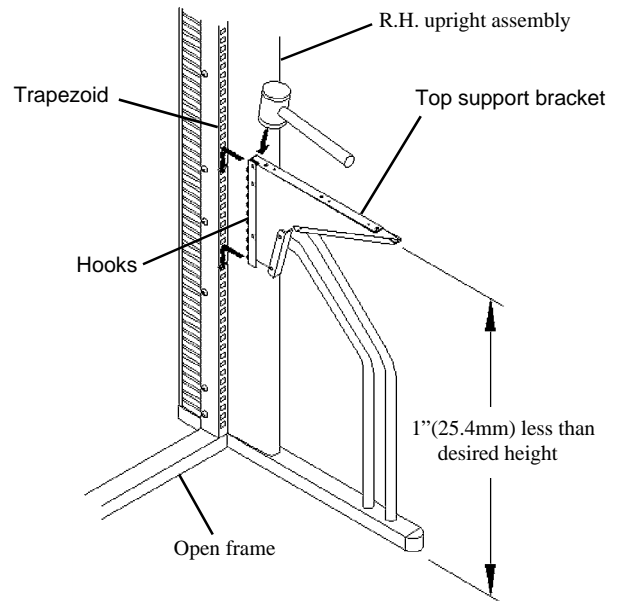


Figure 1

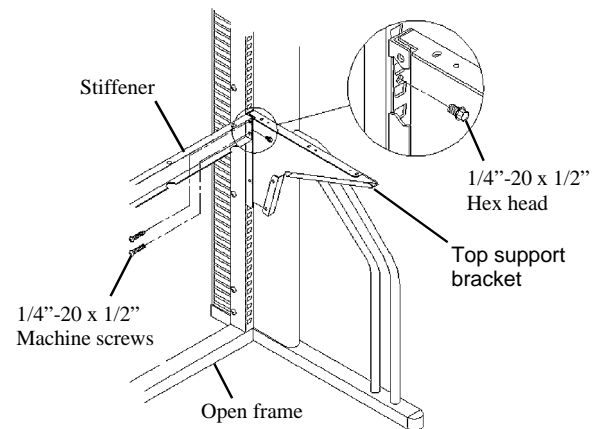


Figure 2

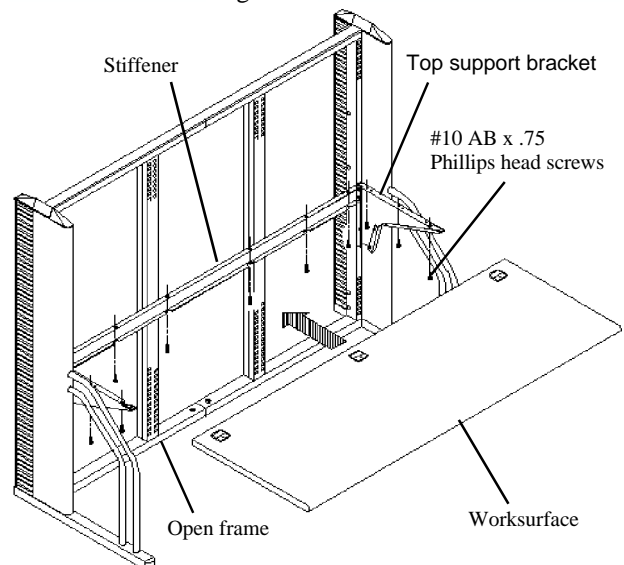


Figure 3

technical furniture

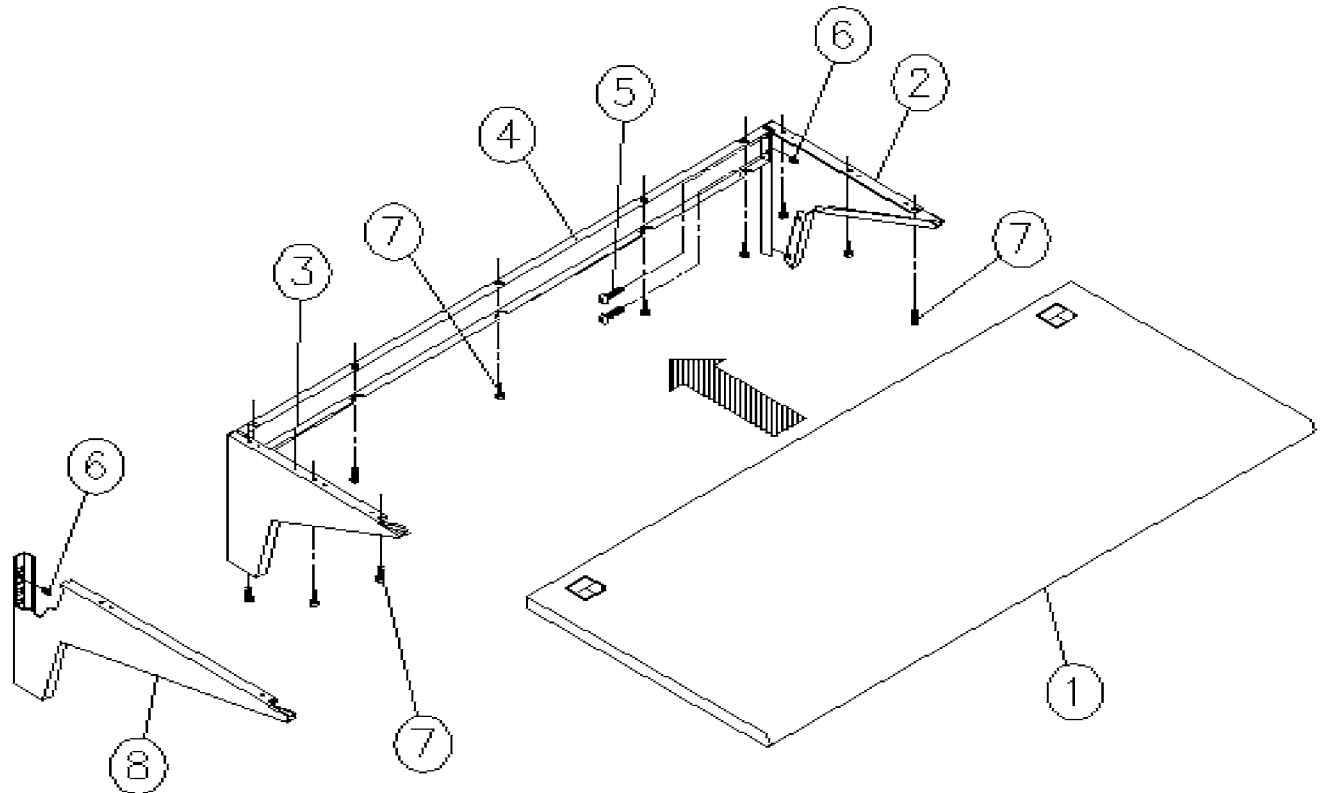
# Linear Hook-on Worksurfaces (cont.)

| Parts List  |                               |      |
|-------------|-------------------------------|------|
| Part Number | Description                   | Qty. |
| 5199X       | Hook-on Worksurface 24" x 27" | 1    |
| 5200X       | Hook-on Worksurface 30" x 27" |      |
| 5201X       | Hook-on Worksurface 36" x 27" |      |
| 5203X       | Hook-on Worksurface 48" x 27" |      |
| 5204X       | Hook-on Worksurface 60" x 27" |      |
| 5205X       | Hook-on Worksurface 72" x 27" |      |
| 5541X       | Hook-on W/s 24" x 27" ESD     |      |
| 5542X       | Hook-on W/s 30" x 27" ESD     |      |
| 5586X       | Hook-on W/s 36" x 27" ESD     |      |
| 5544X       | Hook-on W/s 48" x 27" ESD     |      |
| 5588X       | Hook-on W/s 60" x 27" ESD     |      |
| 5587X       | Hook-on W/s 72" x 27" ESD     |      |
| 5206X       | Hook-On Worksurface 24" x 36" |      |
| 5207X       | Hook-On Worksurface 30" x 36" |      |
| 5208X       | Hook-On Worksurface 36" x 36" |      |
| 5210X       | Hook-On Worksurface 48" x 36" |      |
| 5211X       | Hook-On Worksurface 60" x 36" |      |
| 5212X       | Hook-On Worksurface 72" x 36" |      |
| 5640X       | Hook-On W/s 24" x 36" ESD     |      |
| 5641X       | Hook-On W/s 30" x 36" ESD     |      |
| 5642X       | Hook-On W/s 36" x 36" ESD     |      |
| 5644X       | Hook-On W/s 48" x 36" ESD     |      |
| 5645X       | Hook-On W/s 60" x 36" ESD     |      |
| 5646X       | Hook-On W/s 72" x 36" ESD     |      |

| Parts List  |                               |   |                   |
|-------------|-------------------------------|---|-------------------|
| Part Number | Description                   | Qty.  |                   |
| 5213X       | Hook-on Worksurface 24" x 42" | 1   |                   |
| 5214X       | Hook-on Worksurface 30" x 42" |   |                   |
| 5215X       | Hook-on Worksurface 36" x 42" |   |                   |
| 5217X       | Hook-on Worksurface 48" x 42" |   |                   |
| 5218X       | Hook-on Worksurface 60" x 42" |   |                   |
| 5219X       | Hook-on Worksurface 72" x 42" |   |                   |
| 5681X       | Hook-on W/s 24" x 42" ESD     |   |                   |
| 5682X       | Hook-on W/s 30" x 42" ESD     |   |                   |
| 5683X       | Hook-on W/s 36" x 42" ESD     |   |                   |
| 5685X       | Hook-on W/s 48" x 42" ESD     |   |                   |
| 5686X       | Hook-on W/s 60" x 42" ESD     |   |                   |
| 5687X       | Hook-on W/s 72" x 42" ESD     |   |                   |
| 2           | 3574X                         |   | Top Support, R.H. |
| 3           | 3573X                         | Top Support, L.H.   | 1                 |
| 4           | 2450X                         | Stiffener, 60"  | 1                 |
|             | 2433X                         | Stiffener, 72"  |                   |
| 5           | 68681                         | 1/4"-20 x 3/8" Button Head Cap Screw                          | 4                 |
| 6           | 54348                         | 1/4"-20 x 1/2" Hex Washer Head Screw                          | 2                 |
| 7           | 59103                         | #10AB x .75" RPTF Screw                                       | 4-14              |
| 8           | 3810X                         | 30" Deep Top Support. L.H. (Extended Top Support)             | 1                 |
| 9           | 3809X                         | 30" Deep Top Support, R.H. (Extended Top Support) (not shown) | 1                 |

technical furniture

# Linear Hook-on Work surfaces (cont.)



**Tools Required**

- 5/32" Allen Wrench (provided)
- Phillips head screwdriver
- Plastic mallet

**Important**

**Corner Hook-on Worksurfaces** with 36" deep sides require the use of:

- 40" deep **Uprights** (6L08, 7L08, 8L08)
- Aluminum Top Supports** (MA01-MM).

The 27" deep Worksurface sides require 31" deep Uprights (6L07, 7L07, 8L07).

Determine the desired location of the **Corner Hook-on Worksurface**. The 36" deep Worksurface can be positioned at a height from 27" to 31" in 1" increments. This limit is due to the requirement of Aluminum Top Supports with 36" deep surfaces.

The 26.9" deep Worksurfaces can be positioned in 1" increments to suit your needs. Typical heights, floor to the top of the surface are:

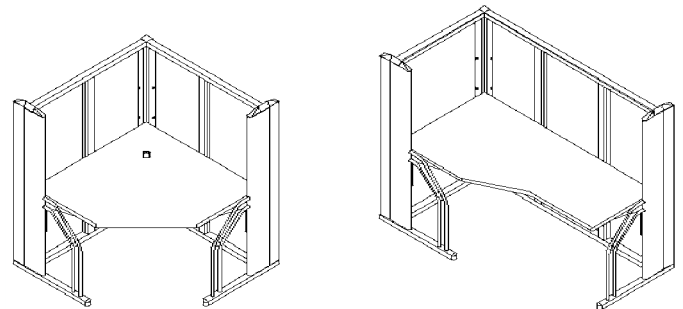
- Seated position .....29"
- Standing range.....36" - 40"

Using the 5/32" Allen wrench, remove from the Upright any 1/4"-20 x 3/8" Button head cap screws that would interfere with the placement of the Hook-on Surface.

**NOTE:** All Corner Hook-on Worksurfaces require three supports, one installed to each connecting side and the third in the corner (Corner post). See **Figure 2**.

**Important**

The depth of the Hook-On Corner Worksurfaces is .30" less than the depth of Linear Hook-On Surfaces. This is to eliminate an interference with the corner post.



Corner Worksurface

Integrated Corner Worksurface

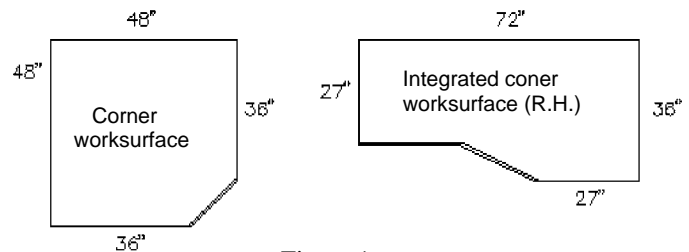
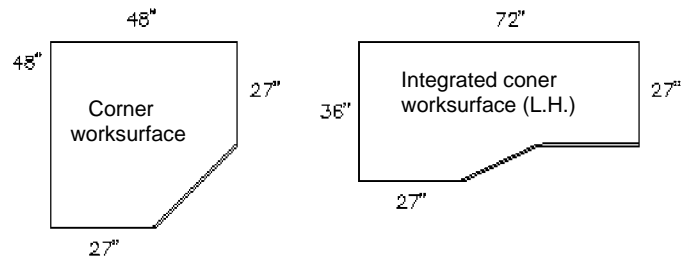


Figure 1

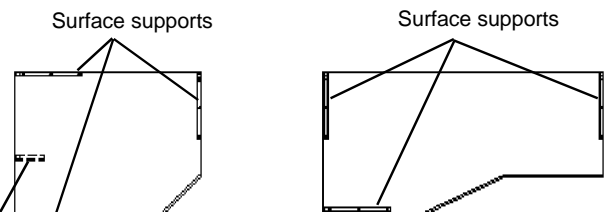


Figure 2

Intermediate support  
(not required on 36" x 36"  
worksurfaces)

1. Determine what height the Corner Hook-on Worksurface will be by measuring from the floor to the top of the hook-on **Top Support** and adding 1".
2. Insert the hooks of the Top Support into the slotted standard of the Full Frame and push down. To assure that the hooks are seated, tap the top rear corner with a plastic mallet or equivalent. See **Figure 3**.
3. Locate the small hole inside the back of the Top Support and insert the 1/4"-20 x 1/2" Hex head screw with a 3/8" socket. See **Figure 4**.

Install the remaining Top Supports. Make sure that all supports are at the same level and firmly seated in the slotted standards.

4. For Worksurfaces longer than 60" in length, a **Stiffener** has to be installed. Position the Stiffener as shown in **Figure 4**. Attach the Stiffener to the Hook-on Top Supports using the 1/4"-20 x 1/2" Machine screws.

**NOTE:** If you are installing the Worksurface with an optional **Modesty Panel**, the Stiffener is not needed.

**NOTE:** It will be necessary to lift the Worksurface at an angle to clear the uprights.

5. Position the Worksurface on the Support Brackets so that it is flush with the frame. Make sure that all of the support brackets are at the same height. The holes in the brackets will correspond to the pilot holes in the laminate top. Secure the Worksurface to the Support Brackets using the #10AB x .75" Phillips head screws. See **Figure 5**.

If you are installing a 72" wide Worksurface, also fasten the Worksurface to the rear Top Support.

**NOTE:** The maximum Worksurface loading is 300lbs. regardless of size.

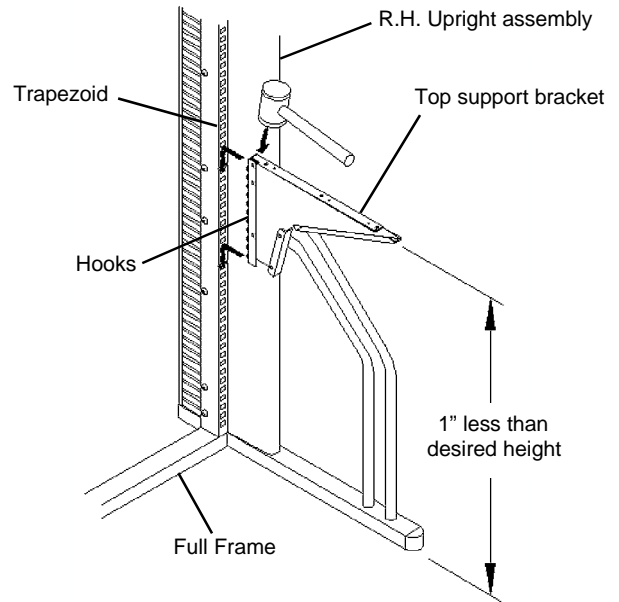


Figure 3

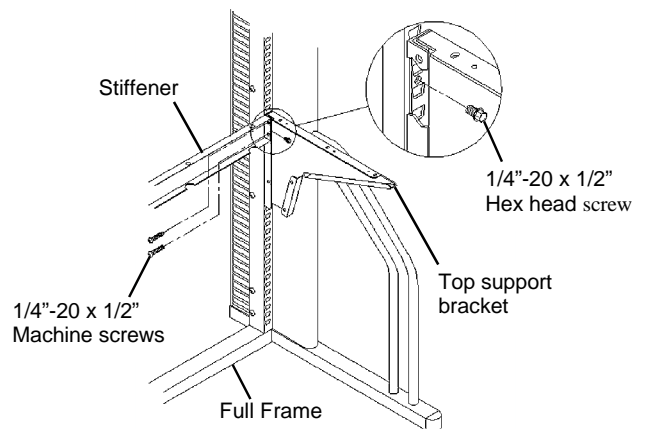


Figure 4

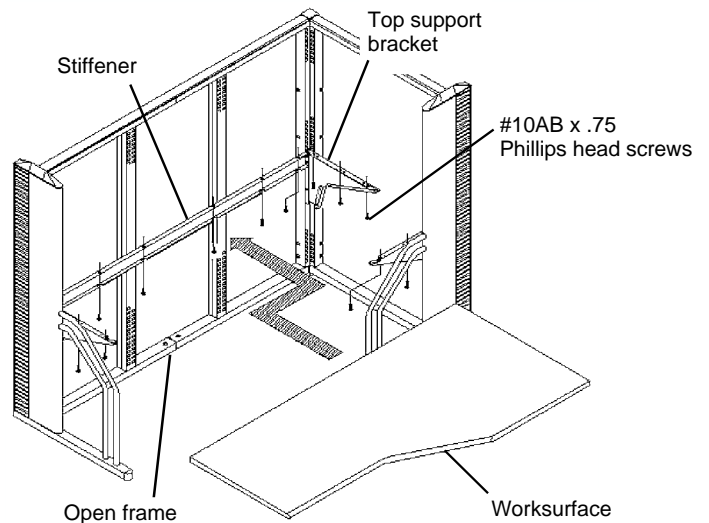


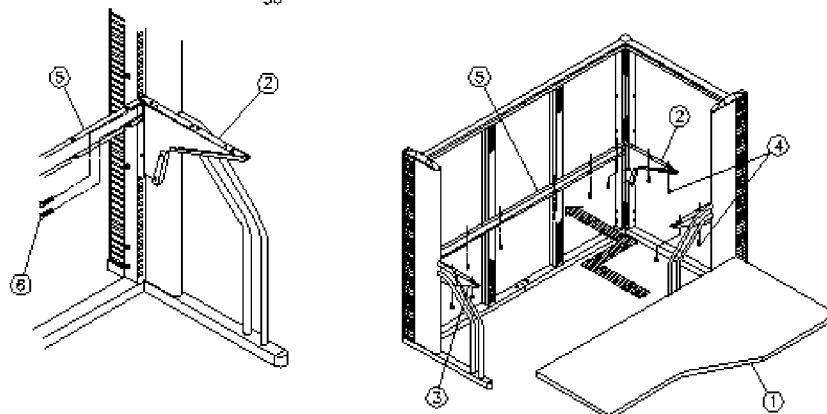
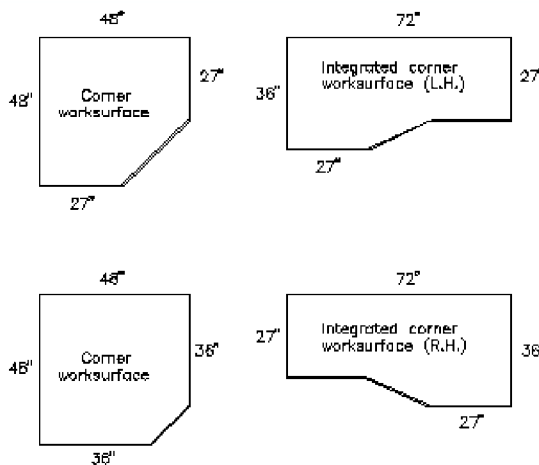
Figure 5

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# Corner Hook-On Worksurface

## Parts List

| Part Number | Description   | Qty. |
|-------------|---|------|
| 1           | 3007X 48" x 48" Corner Worksurface, 27" Sides       | 1    |
|             | 3008X 48" x 48" Corner Worksurface, 36" Sides       |      |
|             | 3018X 72" x 36" Integrated Corner Worksurface, L.H. |      |
|             | 3019X 72" x 36" Integrated Corner Worksurface, R.H. |      |
| 2           | 3574X Hook-On Surface Support, R.H.                 | 1-2  |
| 3           | 3573X Hook-On Surface Support, L.H.                 | 1-2  |
| 4           | 59103 #10AB x .75 Phillips Pan Head Thread Forming  | 15   |
| 5           | 2433X Rear Support (72" Surface only)               | 1    |
| 6           | 68681 1/4"-20 x .38 Button Head Cap Screw           |      |
| 7           | 3125X Intermediate Rear Support (see Figure 2)      | 1    |



# Hook-On Peninsula Worksurface

Please read these instructions carefully and follow the installation steps in sequence.

### Tools Required

- 5/32 Hex Key
- Phillips Head Screwdriver
- 3/8" Socket with extension
- Ratchet

**NOTE:** The height adjustable **Tubular Leg** provides approximately 1.00" height adjustability to the Worksurface.

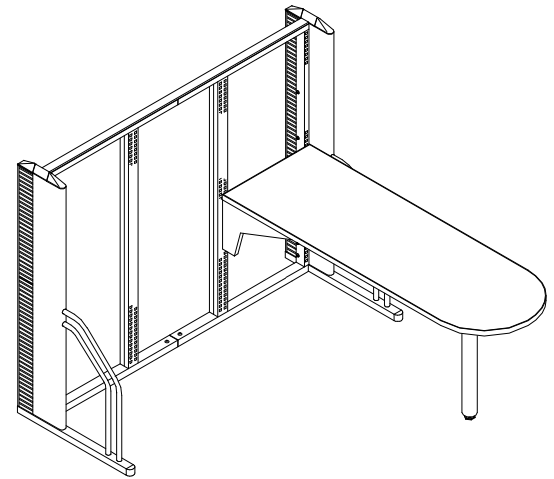
Using the 5/32" Hex Key, remove from the Upright any 1/4-20 x 1/2" Button head cap screws that would interfere with the Support Brackets.

1. Remove the two **Hook-on Top Supports** from the carton. Hook them to the Full Frame at 28" (top of the bracket) for a 29" finished height (or 39" for stand-up height). To assure the hooks are properly seated, tap the top rear corner with a plastic or plastic mallet. See **Figure 1**.

Locate the small hole inside the back of the Top Support and insert the 1/4"-20 x 1/2" Hex head screw with the 3/8" socket. See **Figure 1**.

The supports are left and right hand. The smooth

2. Remove the **Peninsula Worksurface** from the carton and place it carefully, finish side down, on a smooth clean surface.
3. Attach the **Tubular Leg** to the worksurface. Align the holes in the mounting plate with the appropriate holes in the worksurface and secure using the six #10AB x 1.00" Pan head self tapping screws provided. See **Figure 2**.



Hook-On Peninsula

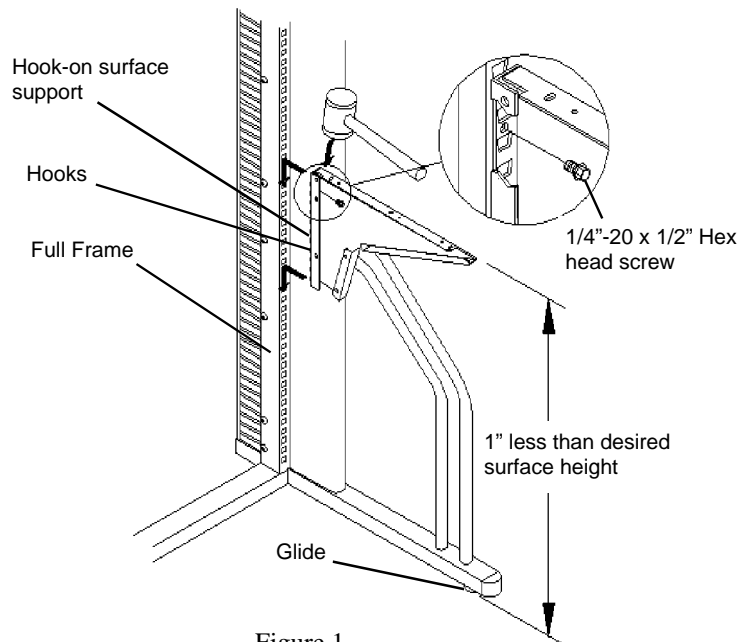


Figure 1.

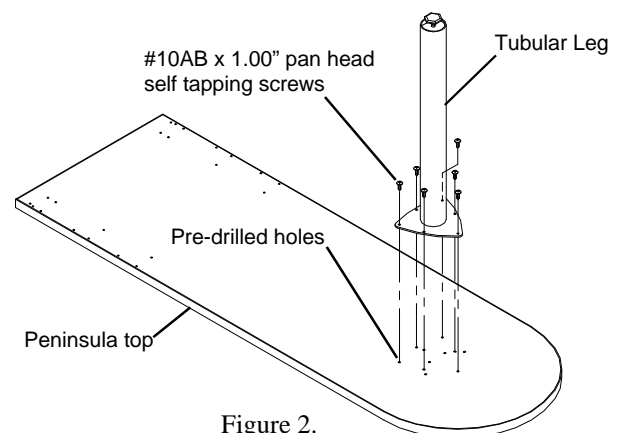


Figure 2.

3. With two people, turn the Peninsula upright and place it onto the Hook-on Support Brackets. Slide it back until it touches the Full Frame.

Align the oval holes in the Support Brackets with holes located approximately .50" from the Peninsula edges.

Drive three #10 x 3/4" screws through each bracket into the Peninsula. See **Figure 3**.

**NOTE:** If there is an adjacent Worksurface, install a **Tie Plate** at the front of the surfaces.

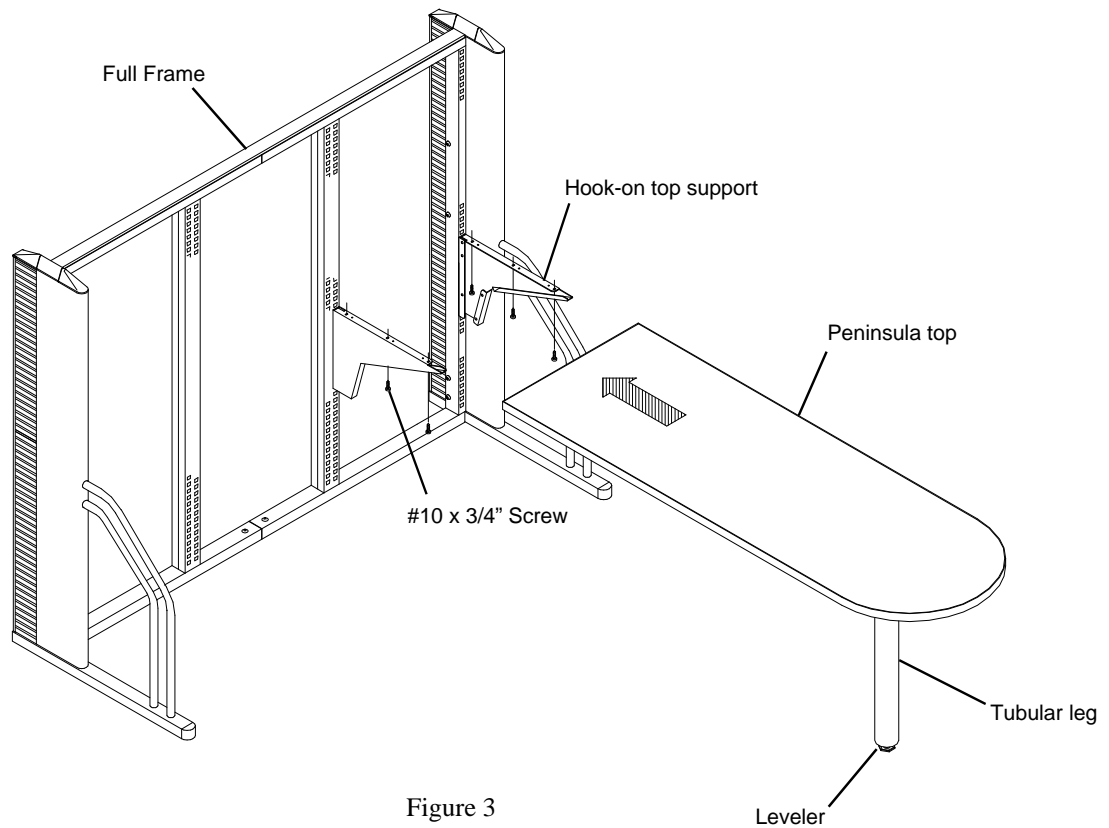


Figure 3



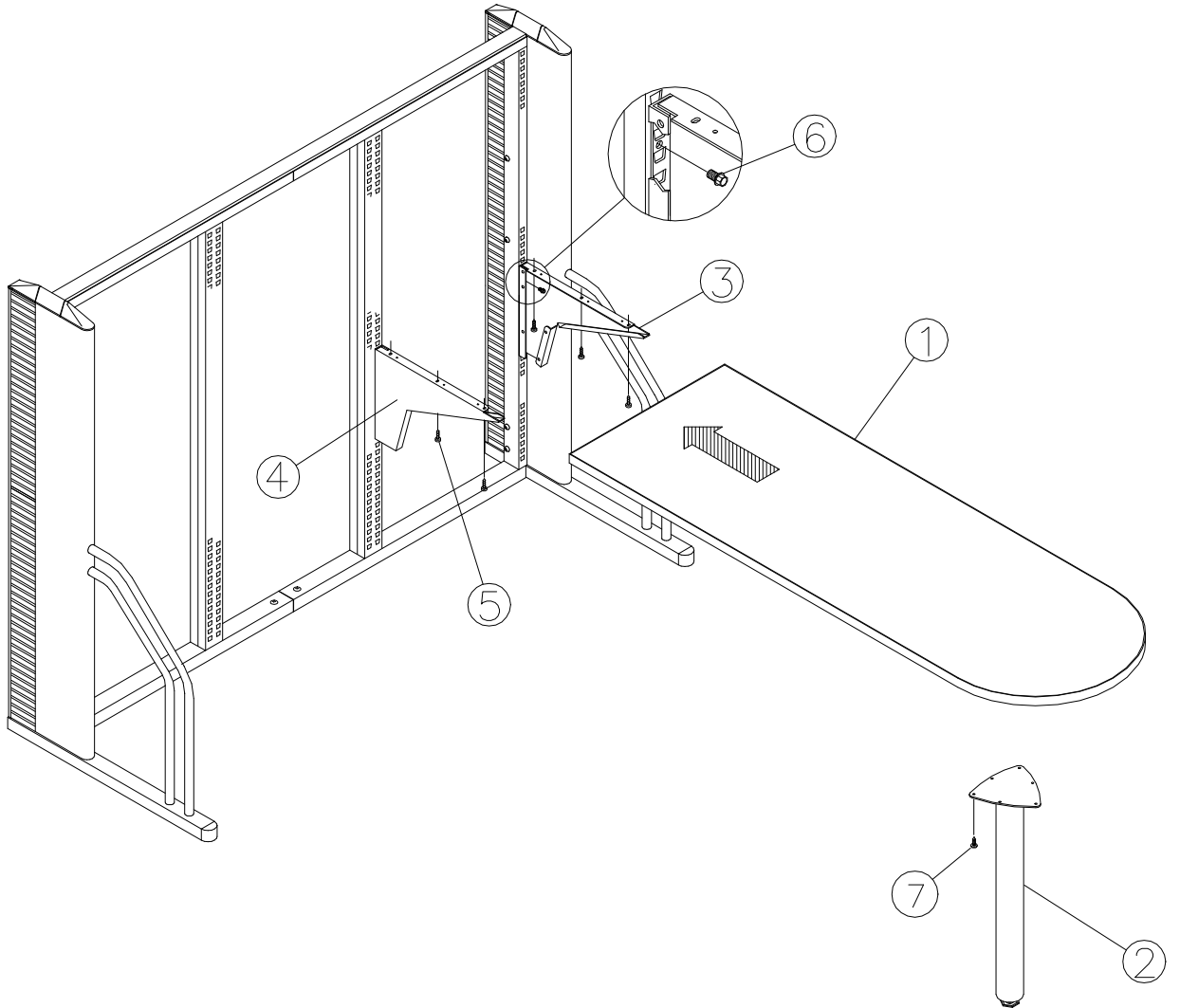
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# Hook-On Peninsula Worksurface (cont.)

| <b>Parts List</b> |                                       |   |    |
|-------------------|---------------------------------------|---|----|
| Part Number       | Description                           | Qty.                                      |    |
| <b>1</b>          | 4023X                                 | Peninsula, 60" x 24"                      | 1  |
|                   | 4024X                                 | Peninsula, 60" x 30"                      |    |
|                   | 4003X                                 | Peninsula, 60" x 36"                      |    |
|                   | 4025X                                 | Peninsula, 72" x 24"                      |    |
|                   | 4026X                                 | Peninsula, 72" x 30"                      |    |
|                   | 4027X                                 | Peninsula, 72" x 36"                      |    |
|                   | 7902X                                 | Peninsula, 60" x 24" (36" sides)          |    |
|                   | 7903X                                 | Peninsula, 60" x 30" (36" sides)          |    |
|                   | 7905X                                 | Peninsula, 72" x 24" (36" sides)          |    |
|                   | 7906X                                 | Peninsula, 72" x 30" (36" sides)          |    |
|                   | 7907X                                 | Peninsula, 72" x 36" (36" sides)          |    |
|                   | 7908X                                 | Peninsula, 60" x 24" (36" sides), ESD     |    |
|                   | 7909X                                 | Peninsula, 60" x 30" (36" sides), ESD     |    |
|                   | 7910X                                 | Peninsula, 60" x 36" (36" sides), ESD     |    |
|                   | 7911X                                 | Peninsula, 72" x 24" (36" sides), ESD     |    |
| 7912X             | Peninsula, 72" x 30" (36" sides), ESD |   |    |
| 7912X             | Peninsula, 72" x 36" (36" sides), ESD |   |    |
| <b>2</b>          | 9130X                                 | Tubular Leg, 27.66"                       | 1  |
|                   | 9175X                                 | Tubular Leg, 34.51"                       |    |
|                   | 9176X                                 | Tubular Leg, 39.16"                       |    |
| <b>3</b>          | 3574X                                 | Surface Support, R.H.                     | 1  |
| <b>4</b>          | 3573X                                 | Surface Support, L.H.                     | 1  |
| <b>5</b>          | 59103                                 | #10 x 3/4" Sheet Metal Screw              | 10 |
| <b>6</b>          | 54348                                 | 1/4"-20 x 1/2" Hex Head Screw             | 2  |
| <b>7</b>          | 62071                                 | #10AB x 1.00" Pan Head Self Tapping Screw | 6  |
| <b>8</b>          | 57488                                 | Cord Clip (not shown)                     | 4  |
| <b>9</b>          | 81066                                 | Tie Plate                                 | 1  |

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# Hook-On Peninsula Worksurface (cont.)



# Aluminum Top Supports

## Tools Required

- 5/32" Allen wrench
- Phillips head screwdriver

**NOTE:** The **Aluminum Top Supports** are constructed of two die cast aluminum parts and are designed to attach to Enhanced Uprights using front to back tubular stabilizers.

The Aluminum Top Supports can be configured as left hand, right hand or center. A center Top Support is required where two 36" or 42" deep worksurfaces meet. See **Figure 1**.

Based on the quantity of 36" and 42" deep worksurfaces, and the configuration being installed, assemble the required quantity of left hand, right hand and center Top Supports.

1. Fasten the appropriate **Top Bracket(s)** to the Top Support, using two #10-24 x 3/8" Socket head cap screws that are provided. See **Figure 2**.

**Please Note:** If the Aluminum Top Support is to be used in conjunction with a Worksurface Filler do **not** use the Top Brackets supplied with the Top Support. Use the replacement Top Brackets supplied with the Worksurface Filler.

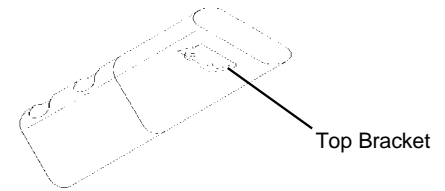
On left and right hand supports, install the appropriate **Plastic Insert** into the recessed area on the side opposite the Top Bracket.

**Do not** install the **Clamps** at this time.

2. Position the Top Support onto the tubular stabilizers as shown in **Figure 3**. Slide the Top Support up the stabilizers until the Top Bracket contacts the underside of the worksurface.

Fasten the **Clamp** to the Top Support using the four #10-24 x 1.00" Socket head cap screws provided. This will lock the Top Support in place.

3. Fasten the Top Supports to the underside of the worksurface using the #10AB x 3/4" Phillips head screws provided. Carefully drill a 1/2" deep pilot hole in the bottom of the worksurface for each screw. See **Figure 3**.



Aluminum Top Support  
(R.H. shown)

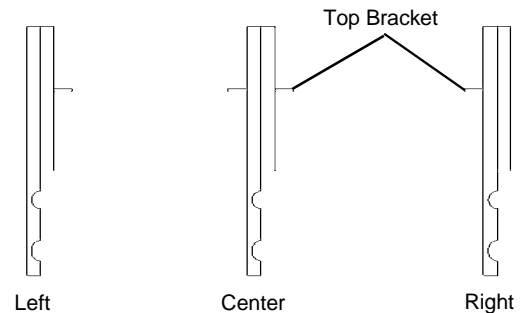


Figure 1

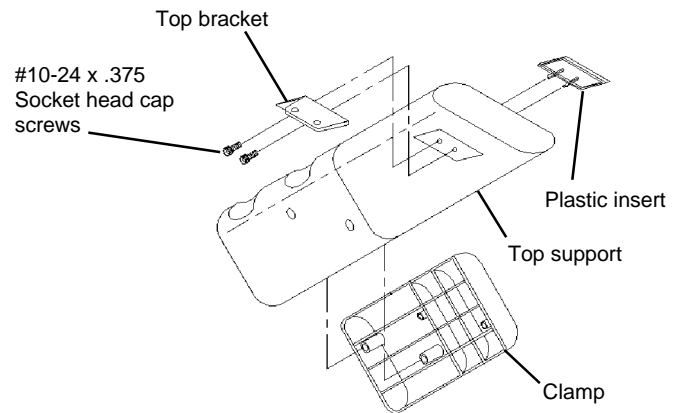


Figure 2

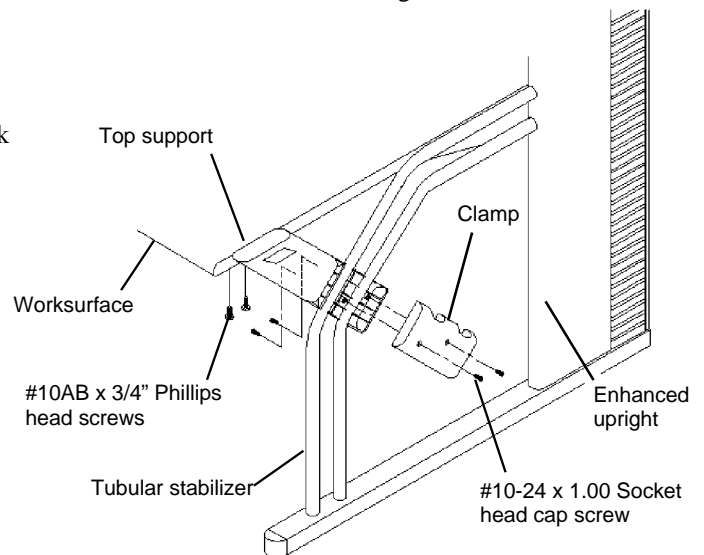
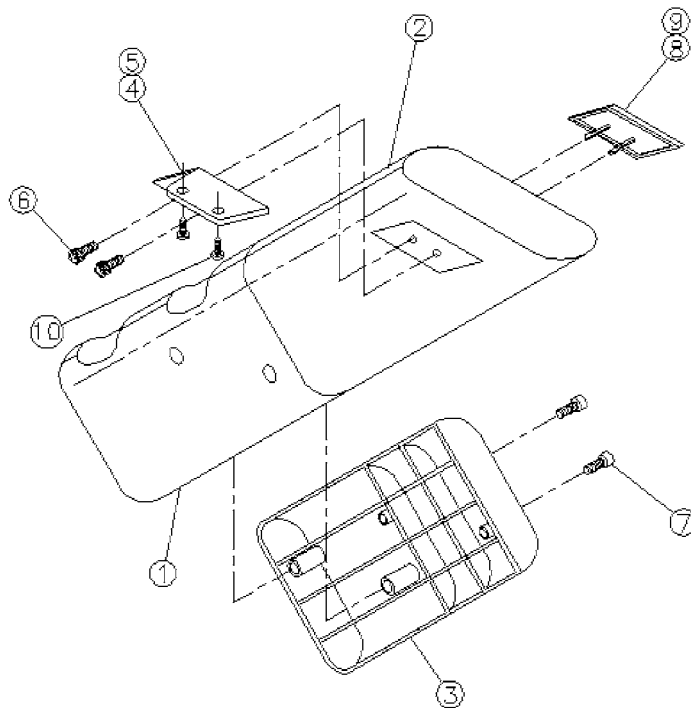


Figure 3

# Aluminum Top Supports (cont.)

| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description                                  | Qty. |
| <b>1</b>    | 3098X | Support Half, L.H.                           | 1    |
| <b>2</b>    | 3099X | Support Half, R.H. Upper                     | 1    |
| <b>3</b>    | 3100X | Support Clamp                                | 1    |
| <b>4</b>    | 3101X | Top Bracket, L.H.                            | 1    |
| <b>5</b>    | 3102X | Top Bracket, R.H.                            | 1    |
| <b>6</b>    | 82460 | #10-24 x .375" Socket Head Cap Screw         | 4    |
| <b>7</b>    | 82461 | #10-24 x 1.00" Socket Head Cap Screw         | 8    |
| <b>8</b>    | 3120X | Insert, L.H.                                 | 1    |
| <b>9</b>    | 3121X | Insert R.H.                                  | 1    |
| <b>10</b>   | 59103 | #10AB x >75 Phillips Pan Head Thread Forming | 4    |



### Tools Required

- Phillips head screwdriver
- Electric drill
- 1/8" Drill bit

### PLEASE NOTE:

- **Worksurface Fillers** can only be used on Worksurfaces located 29" or more from the floor.
- Worksurface Fillers can only be used where two adjacent Worksurfaces are located on either side of an upright.
- The adjacent Worksurfaces must be located at the same height from the floor.

### IMPORTANT:

36" and 42" deep Worksurfaces usually require **#MA01-MM Aluminum Top Supports**. If the Worksurface Filler is going to be installed in conjunction with a Top Support, the Top Brackets included with the Worksurface Filler must be used **instead of** the Top Brackets included with the Aluminum Top Support.

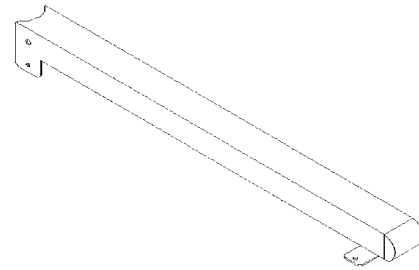
Before assembling the Aluminum Top Support to the tubular stabilizers, assemble the appropriate replacement Top Brackets to the support. Use two #10-24 x 1/2" Phillips head machine screws for each Bracket. See **Figure 1**.

Complete the installation of the Top Support as instructed in the Top Support instruction sheet. **The top of the support should align with the bottom of the worksurface.**

*Replacement Top Brackets are **not** supplied with 27" deep and 30" deep Worksurface Fillers.*

### WORKSURFACE FILLER INSTALLATION

1. Position the Worksurface Filler between the adjacent Worksurfaces. The front bracket flanges should rest under the surfaces. Align the "bull nose" of the Filler with the "bull nose" on the surfaces. Mark the location of the bracket holes and carefully drill two 1/8" diameter by 1/2" deep pilot holes.
2. Attach the Filler using two #10 x 3/4" Phillips head wood screws at the front bracket. Use two #10 x 3/8" Phillips head thread forming screws to attach the rear of the filler to the worksurface brackets. See **Figure 2**.



Worksurface Filler

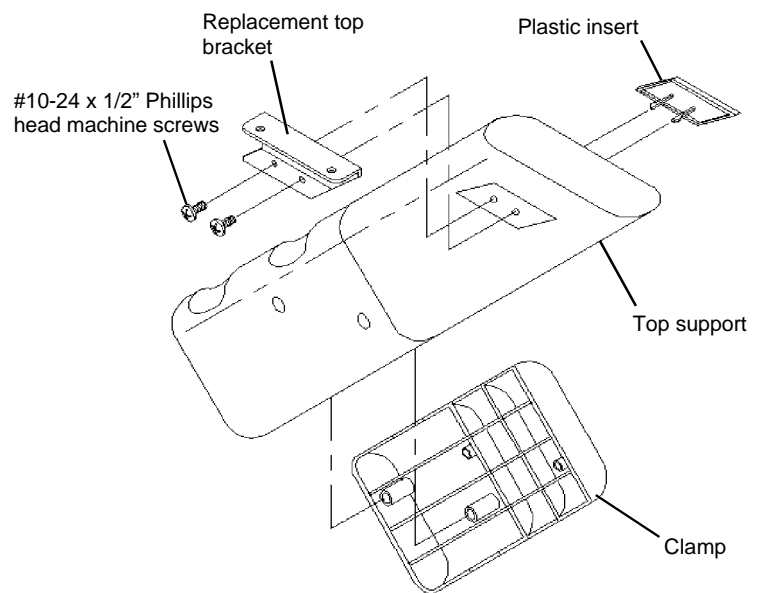


Figure 1

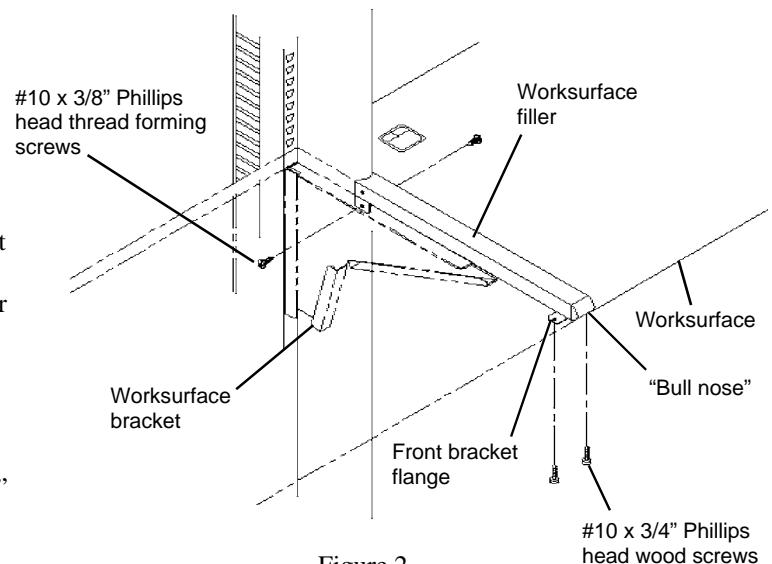


Figure 2

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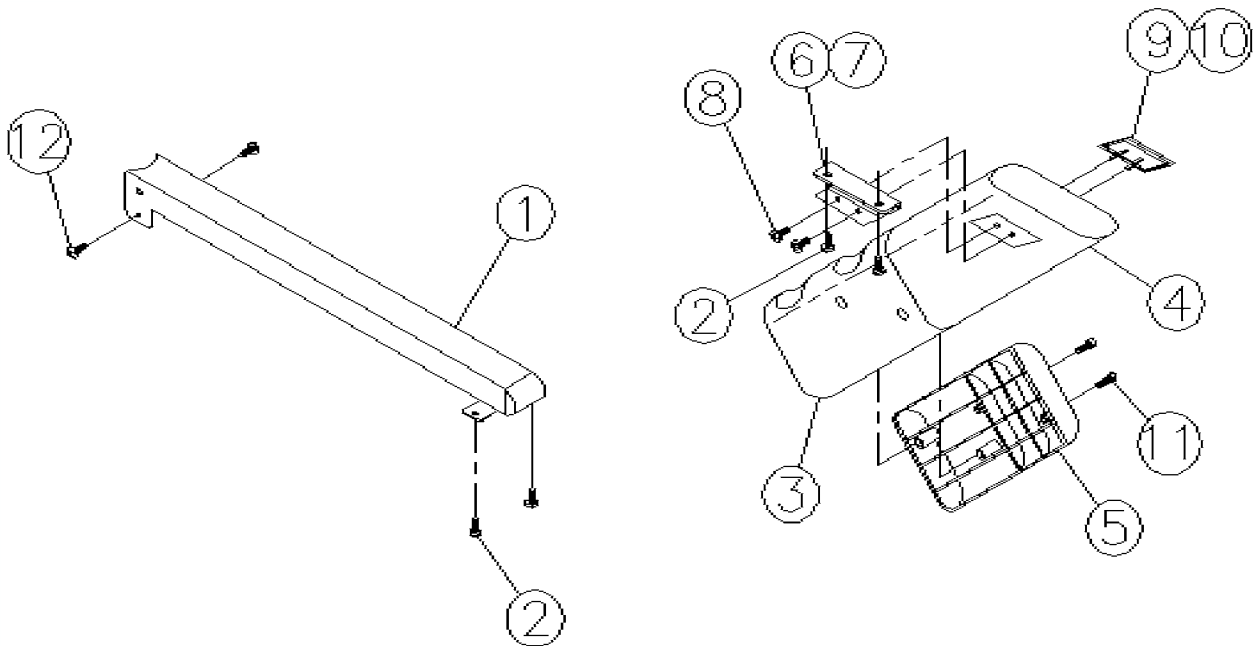
# Worksurface Filler ( c o n t . )

## Parts List

| Part Number | Description                            | Qty. |
|-------------|--|------|
| 6045X       | Worksurface Filler, 27" LMS            | 1    |
| 6048X       | Worksurface Filler, 30" LMS            |      |
| 6046X       | Worksurface Filler, 36" LMS            |      |
| 6047X       | Worksurface Filler, 42" LMS            |      |
| 6049X       | Worksurface Filler, 27" Basic +        |      |
| 6050X       | Worksurface Filler, 36" Basic +        |      |
| 6051X       | Worksurface Filler, 42" Basic +        |      |
| 6106X       | Worksurface Filler, 27" Double Upright |      |
| 6107X       | Worksurface Filler, 36" Double Upright |      |
| 6108X       | Worksurface Filler, 42" Double Upright |      |

## Parts List

| Part Number | Description   | Qty. |
|-------------|---|------|
| 2           | 59103 #10AB x .75 Philips Pan Head Thread Forming screw | 6    |
| 3           | 3098X Support Half, L.H.                                | 1    |
| 4           | 3099X Support Half, R.H. Upper                          | 1    |
| 5           | 3100X Support Clamp                                     | 1    |
| 6           | 6558X Top Support Bracket, L.H.                         | 1    |
| 7           | 6559X Top Support Bracket, R.H.                         | 1    |
| 8           | 55617 #10-24 x .50" Phillips Head Machine Screw         | 4    |
| 9           | 3120X Insert, L.H.                                      | 1    |
| 10          | 3121X Insert, R.H.                                      | 1    |
| 11          | 82461 #10-24 x 1.00" Socket Head Cap Screw              | 8    |
| 12          | 54055 #10-24 x 3/8" Pan Head Thread Forming Screw       | 2    |

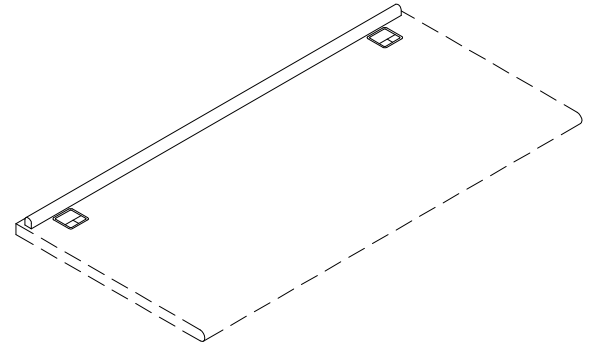


# Worksurface Backstop

### Tools Required

- Tape Measure
- Electric Drill
- 9/32"(.281) Drill
- Phillips head Screwdriver

1. Accurately measure, locate and drill the correct number of .281 diameter holes in the back of the Worksurface. See **Figure 1** and the chart below for the specific hole quantities and location.



Backstop

### Hole Locations

| WORKSURFACE |                               | BACKSTOP |          | A     | B     | C | D      | E      |
|-------------|-------------------------------|----------|----------|-------|-------|---|--------|--------|
| SIZE        | DESCRIPTION                   | SIZE     | ITEM No. |       |       |   |        |        |
| 24"         | HOOK-ON WORKSURFACE           | 24"      | MB26     | 1.20" | 2.00" | 2 | 10.00" | 20.00" |
| 30"         | HOOK-ON WORKSURFACE           | 30"      | MC26     | 1.20" | 2.00" | 2 | 13.00" | 26.00" |
| 36"         | HOOK-ON WORKSURFACE           | 36"      | MG26     | 1.20" | 2.00" | 2 | 16.00" | 32.00" |
| 42"         | HOOK-ON WORKSURFACE           | 42"      | MD26     | 1.20" | 2.00" | 4 | 9.50"  | 38.00" |
| 48"         | HOOK-ON WORKSURFACE           | 48"      | ME26     | 1.20" | 2.00" | 4 | 11.00" | 44.00" |
| 60"         | HOOK-ON WORKSURFACE           | 60"      | MM26     | 1.20" | 2.00" | 4 | 14.00" | 56.00" |
| 72"         | HOOK-ON WORKSURFACE           | 72"      | MF26     | 1.20" | 2.00" | 5 | 13.60" | 68.00" |
| 48" X 48"   | CORNER HOOK-ON WORKSURFACE    | 42"      | MD26     | 1.03" | 5.00" | 4 | 9.50"  | 38.00" |
| 36" X 36"   | CORNER HOOK-ON WORKSURFACE    | 30"      | MC26     | 1.03" | 5.00" | 2 | 13.00" | 26.00" |
| 36" X 72"   | INTEGRATED CORNER WORKSURFACE | 30"      | MC26     | 1.03" | 5.00" | 2 | 13.00" | 26.00" |
|             |                               | 60"      | MM26     | 1.03" | 5.00" | 4 | 14.00" | 56.00" |

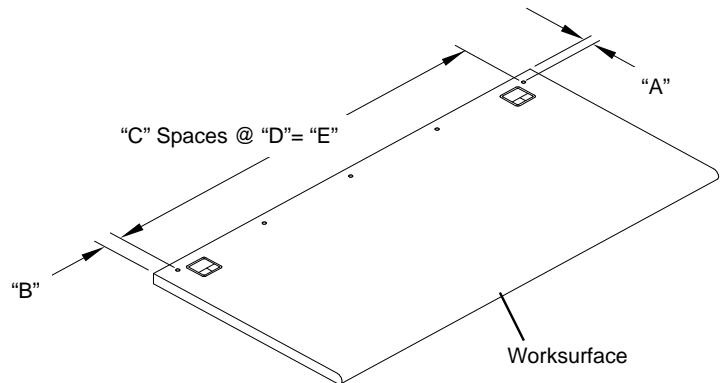


Figure 1

2. Install the **Backstop** onto the Worksurface using the #10AB x 1-3/4" phillips pan head thread forming screws. See **Figure 2**.

**Note:** If the Backstop is being installed onto a Worksurface that was produced prior to October 1995, the Backstop may extend over the back edge of the Cable Management bushing(s).

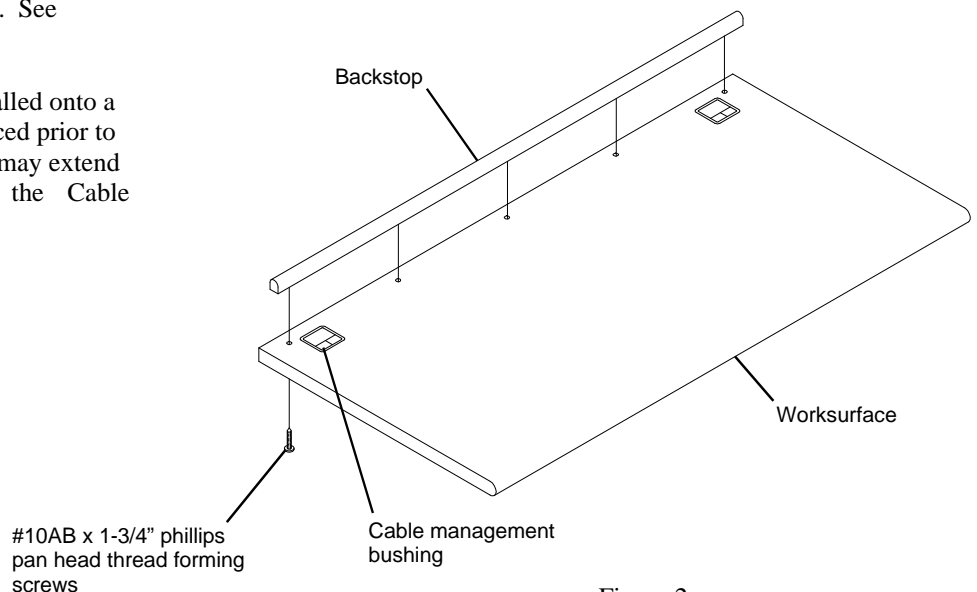
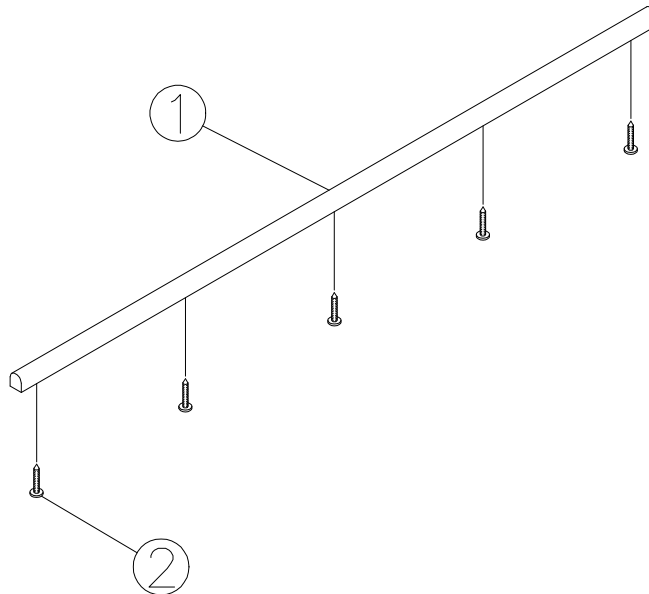


Figure 2

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# Work surface Backstop (cont.)

| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description  | Qty. |
| <b>1</b>    | 8969X | 24" Backstop   | 1    |
|             | 8970X | 30" Backstop   |      |
|             | 8971X | 36" Backstop   |      |
|             | 8973X | 48" Backstop   |      |
|             | 8974X | 60" Backstop   |      |
|             | 8975X | 72" Backstop   |      |
| <b>2</b>    | 85320 | #10-24 x 1.75" Phillips Pan Head Thread Forming Screws | 3-6  |



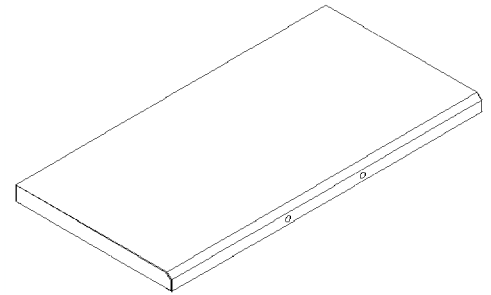


**Tools Required**

-None

1. Position the **Tower Floor Shelf** between the Upright Feet of the Full Frame or Slotted Posts of a **Basic** system. See **Figure 1**.
2. Adjust the leveler/glides, on the bottom of the shelf, as necessary to level the Floor Shelf prior to loading.

**Note:** the recommended maximum loading of the Floor Tower Shelf is 900# (409 kg.)



Tower Floor Shelf

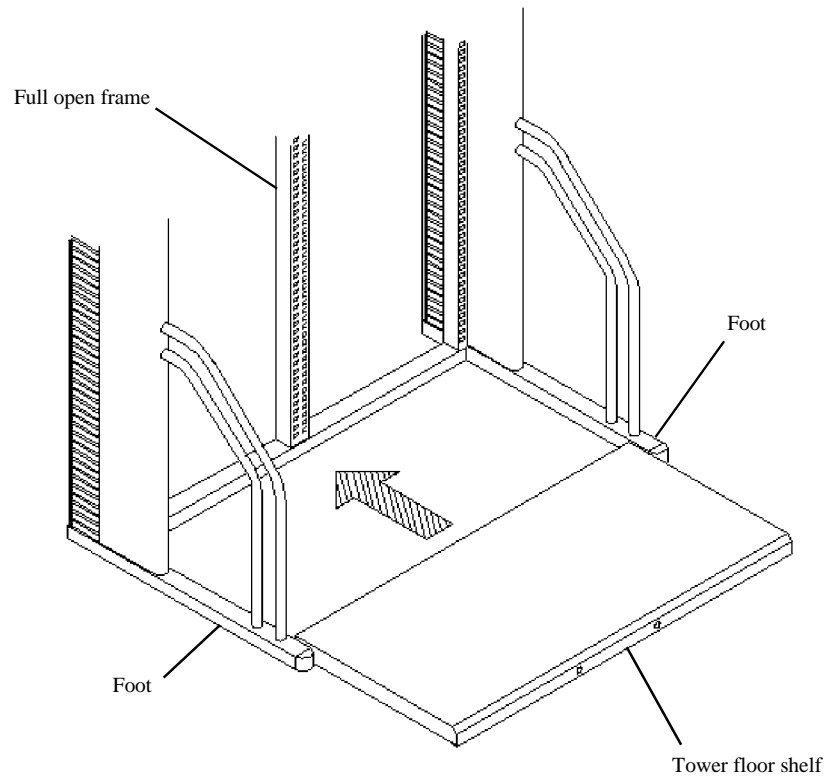
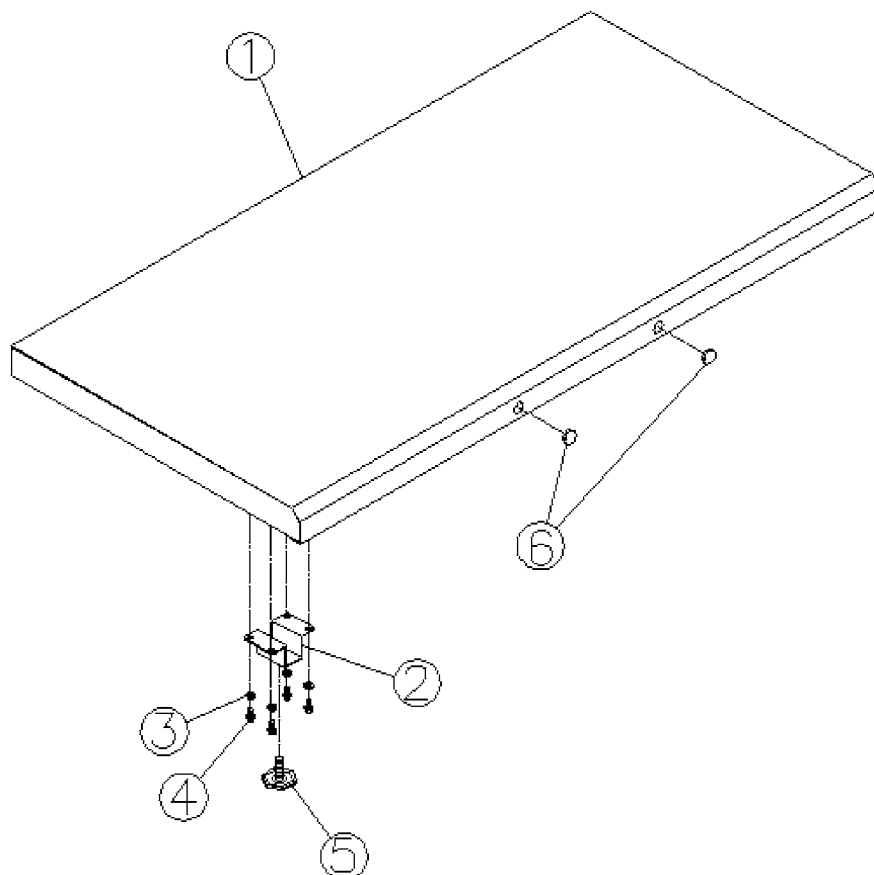


Figure 1

| Parts List  |       |                                      |       |
|-------------|-------|--------------------------------------|-------|
| Part Number |       | Description                          | Qty.  |
| 1           | 2596X | 24" LMS Tower Roll-Out               | 1     |
|             | 2597X | 30" LMS Tower Roll-Out               |       |
|             | 2598X | 36" LMS Tower Roll-Out               |       |
|             | 2600X | 48" LMS Tower Roll-Out               |       |
|             | 2601X | 60" LMS Tower Roll-Out               |       |
|             | 2602X | 72" LMS Tower Roll-Out               |       |
| 2           | 2740X | Leveler Bracket                      | 4-6   |
| 3           | 59588 | Lock Washer                          | 16-24 |
| 4           | 54348 | 1/4"-20 x 1/2" Hex Washer Head Screw | 16-24 |
| 5           | 21333 | Glide Foot                           | 4-6   |
| 6           | 87034 | Hole Plug                            | 2     |



**Tools Required**

- Phillips head screwdriver
- 5/32 Allen wrench

**Note:** The **Tower Roll-Out** can be connected to the Full Frame, Open Frame, Basic, or Basic Plus prior to use to prevent forward creep during repeated use.

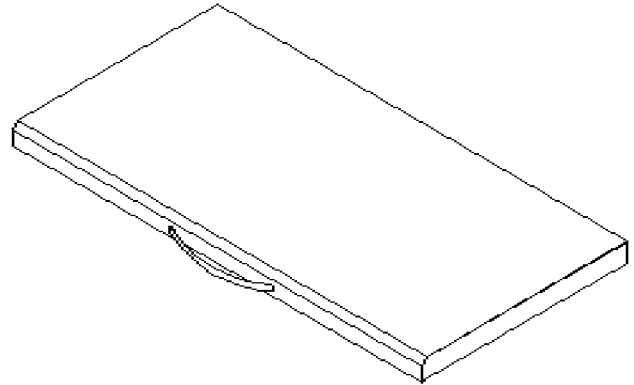
The recommended maximum load capacity of the Tower Roll-Out is 1000 lbs, 200 lbs on the 12” wide unit.

**Assembling the handle to the Tower Roll-Out**

1. Place the Roll-Out , upside down, on it’s shipping carton. Extend the Roll-Out front approx. 2”-3” beyond the carton edge. See **Figure 1**. Remove the tape strips that held the **Base Pan** in position during shipping, and slide the Base Pan back.

**Note:** The 12” Roll-Out has a smaller handle (6.00”) than the 24” through 72” (12.76”).

2. Assemble a **12.76” Handle** to the Roll-Out using the two lockwashers and 4mm x 6mm phillips fillister head machine screws. Tighten securely. See **Figure 1**.



Tower Roll-Out

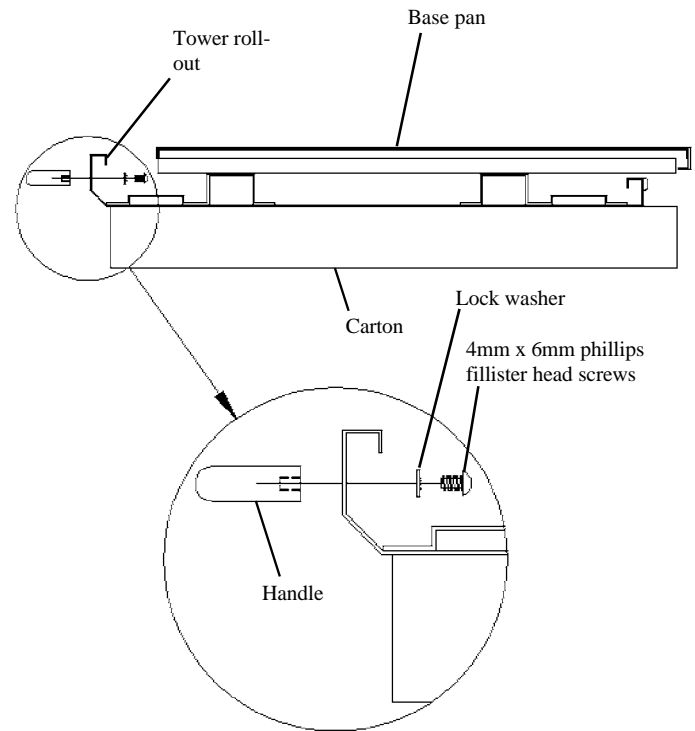


Figure 1

# Tower Roll-out Shelf (cont.)

2. Position the Tower Roll-out component between the feet of the unit. Center it between the feet and extend the Roll-Out platform from the Base Pan. See **Figure 2**.

**Note:** If using multiple 12" Tower Roll-Outs, space them evenly between the feet. Six Roll-Outs used with a 72" wide Full frame will have approximately 5/16" between each. The spacing will vary depending on the Full Frame width.

### Installing the Retention Brackets (Full Frame, Lower Frame, Open Frame)

3. Install **Bracket "A"** or **"B"** (use Bracket "A" for Full Frame or Open Frame; use Bracket "B" for Lower Frame) by inserting the side without holes under the Frame. It may be necessary to raise the frame slightly in order to slide the Bracket underneath. See **Figure 2**.

**Note:** The center 12" Roll-Out (using 5 Roll-Outs) on a 60" wide Full Frame cannot be attached to the Frame due to the location of the double standard and adjustable glide in the center.

4. Slide the Bracket over the back flange on the Base Pan and align the holes in each. See **Figure 2**.

Fasten the Brackets in place using the #10-24 screws provided.

Two Brackets are on each 24" through 72" Tower roll-out. One with each 12" Tower roll out.

**Note:** Additional holes are provided in the Base Pan of the 24" thru 72" wide Tower Roll-Outs to facilitate installing units in a back-to-back configuration on LMS Frames with double up-rights.

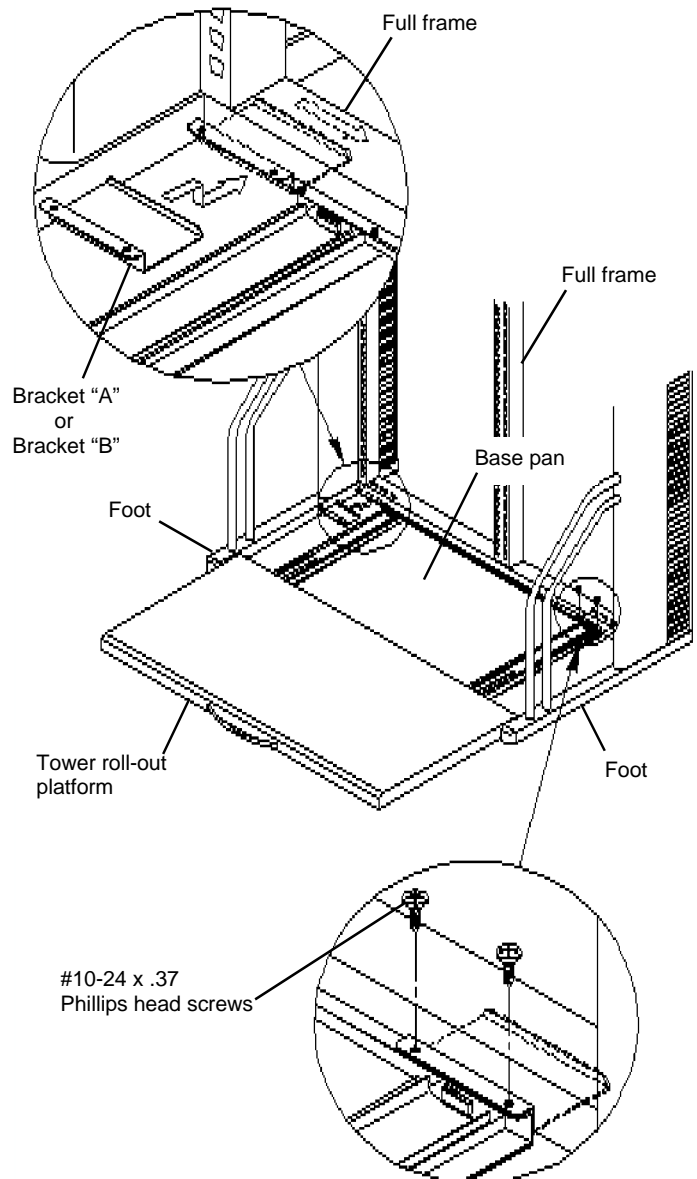
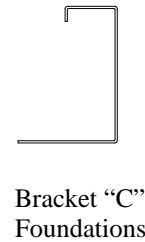
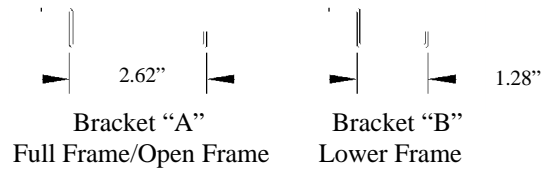


Figure 2

## Installing the Retention Brackets (Foundations)

5. Install **Bracket "C"** by sliding the Bracket over the Cross tie as shown in **Figure 3**.
6. Position the Bracket over the back flange on the Base Pan and align the holes in each. See **Figure 4**.
7. Fasten the Brackets in place using the #10-24 screws provided. See **Figure 4**. There are two Brackets on each 24" through 72" Tower Roll-out and one with each 12" Tower Roll-out.

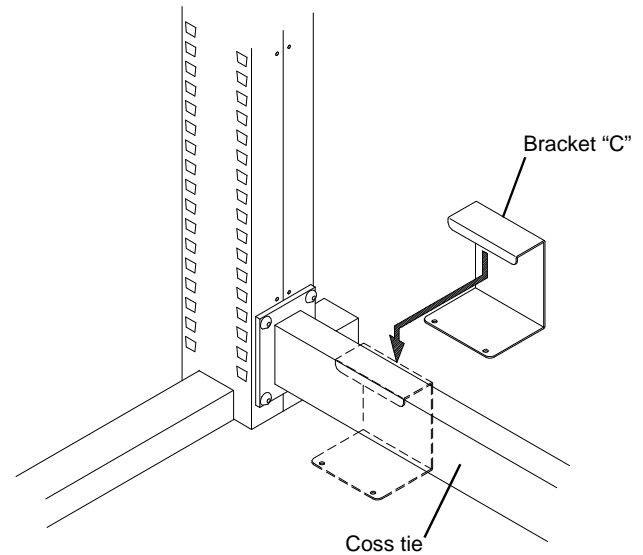


Figure 3

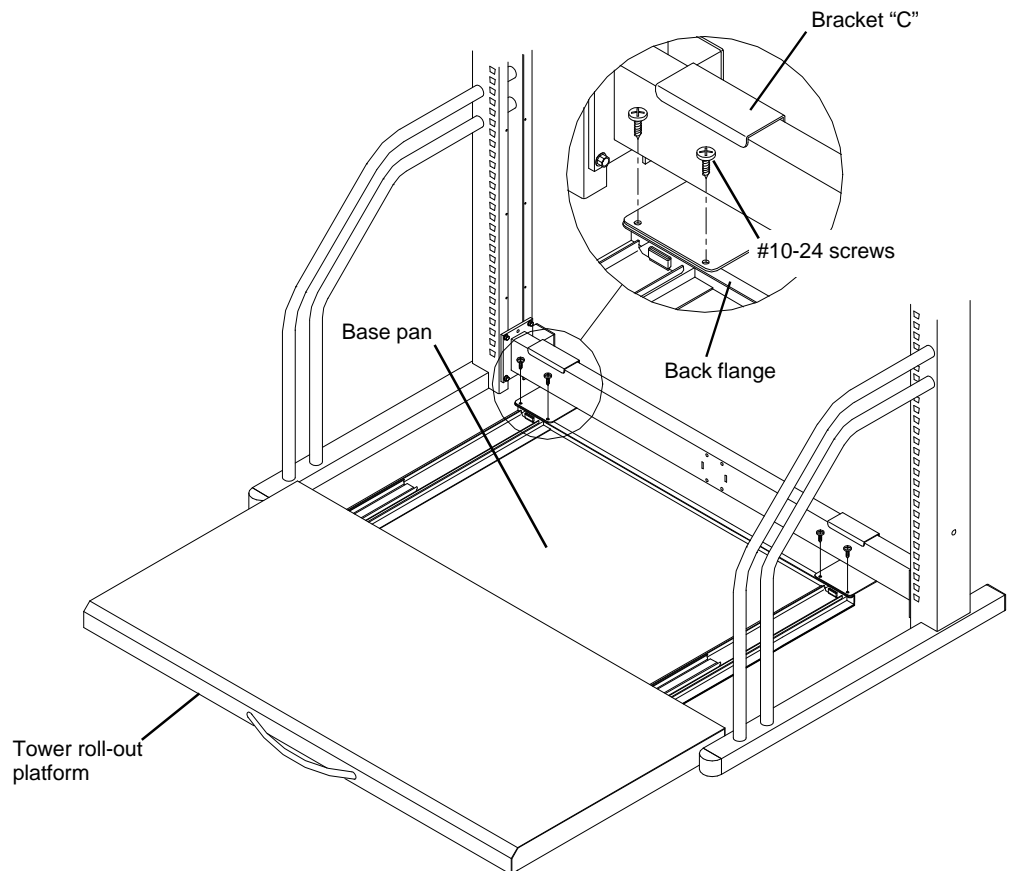


Figure 4

technical furniture

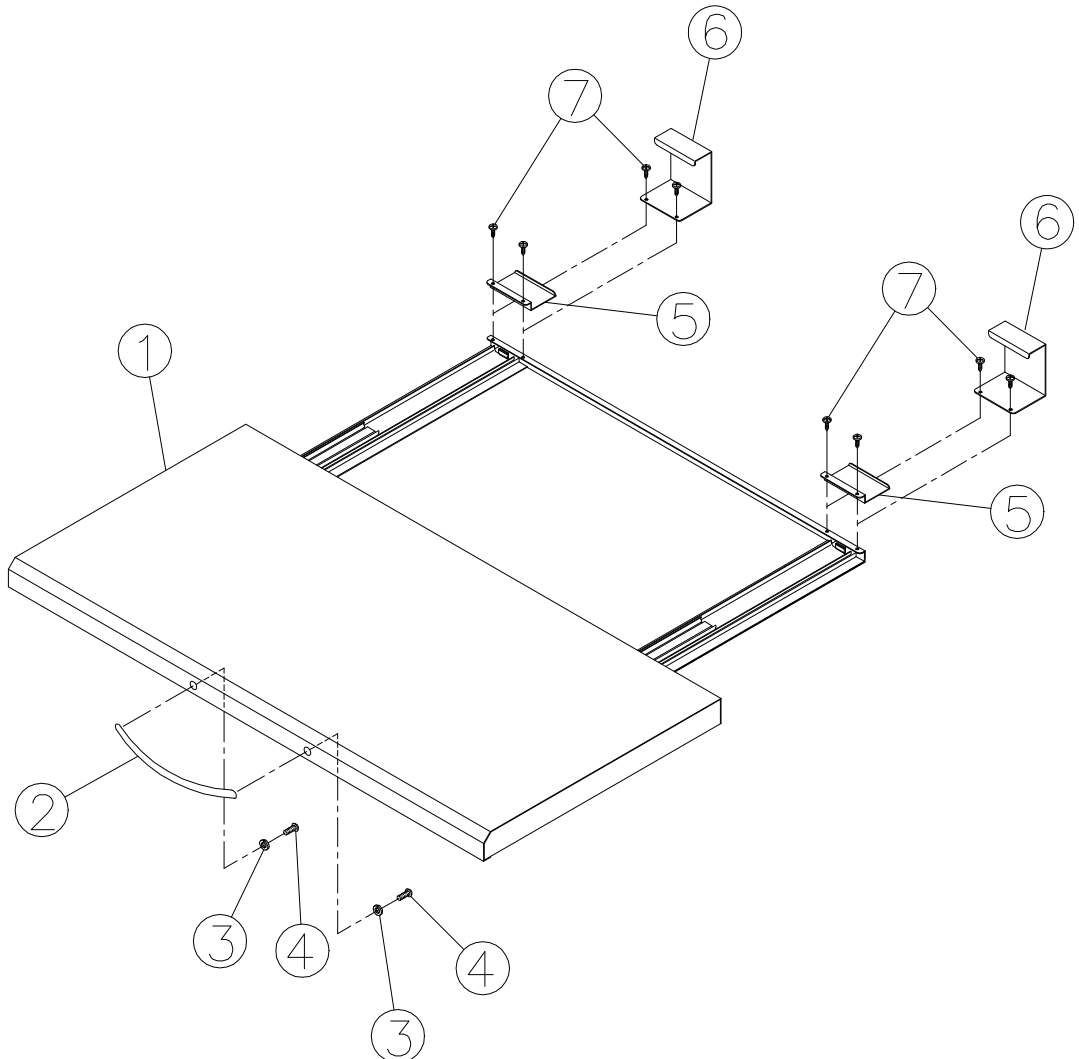
# Tower Roll-out Shelf (cont.)

## Parts List

| Part Number | Description | Qty.                   |   |
|-------------|-------------|------------------------|---|
| <b>1</b>    | LA28-XX     | 12" Tower Roll-out     | 1 |
|             | LB28-XX     | 24" Tower Roll-out     |   |
|             | LC28-XX     | 30" Tower Roll-out     |   |
|             | LG28-XX     | 36" Tower Roll-out     |   |
|             | LE28-XX     | 48" Tower Roll-out     |   |
|             | LM28-XX     | 60" Tower Roll-out     |   |
|             | LF28-XX     | 72" Tower Roll-out     |   |
| <b>2</b>    | 81911       | Handle (12" Tower R/O) | 1 |
|             | 87033       | Handle                 |   |

## Parts List

| Part Number | Description | Qty.   |   |
|-------------|-------------|--|---|
| <b>3</b>    | 18977       | External Lock Washer                                 | 2 |
| <b>4</b>    | 81868       | 4mm x 6mm Phillips Fillister Head Screw              | 2 |
| <b>5</b>    | 2605X       | Bracket "A"  | 2 |
|             | 2690X       | Bracket "B"  |   |
| <b>6</b>    | 9138X       | Bracket "C"  | 2 |
| <b>7</b>    | 66714       | #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 8 |



# Hook-on Shelving Components

## Tools Required

- Phillips head screwdriver
- Plastic mallet
- 5/32" Allen wrench

1. Determine the location of the **Shelf End Panels**. Position the end panels as shown. (The End Panels are stamped "R.H." and "L.H.") Insert the hooks on the End Panels into the slotted standards and push down. To assure the hooks are seated, tap the top rear corner of the panels with a plastic mallet or equivalent. See **Figure 1**.

Make sure both End Panels are in the same location.

**NOTE:** If the shelf is being installed in the lowest possible position, it is recommended that the shelf be pre-assembled as shown above (upper right), and then installed on the Full Frame with two people. This allows the screws to be pre-tightened.

2. The End Panels accept single or multiple levels of steel shelves. Refer to shelf position diagrams on next page.

Install the #10-24 x 1/2" Phillips head machine screws in each End Panel, leaving approximately 1/8" of thread exposed. See **Figure 1**.

3. With two people, carefully position the steel shelf over the screws. Note: install the shelf with the 1/16" corner notch toward the back. Drop the shelf in place and tighten the screws.

## Maximum Shelf Loading

The recommended maximum loading for most shelf components is 300lbs regardless of shelf width. If more than one shelf is installed on a pair of end panels, the maximum load per pair of end panels is not to exceed 300 lbs.

**Heavy Duty Shelf Supports (#8161X)** can be purchased separately to increase the weight capacity of the shelf. See page G-9 for details.

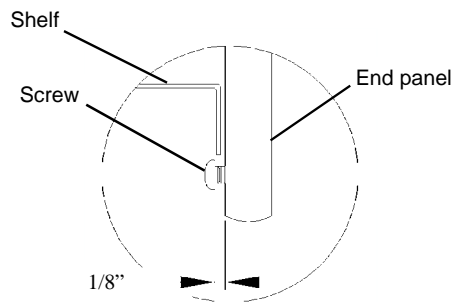
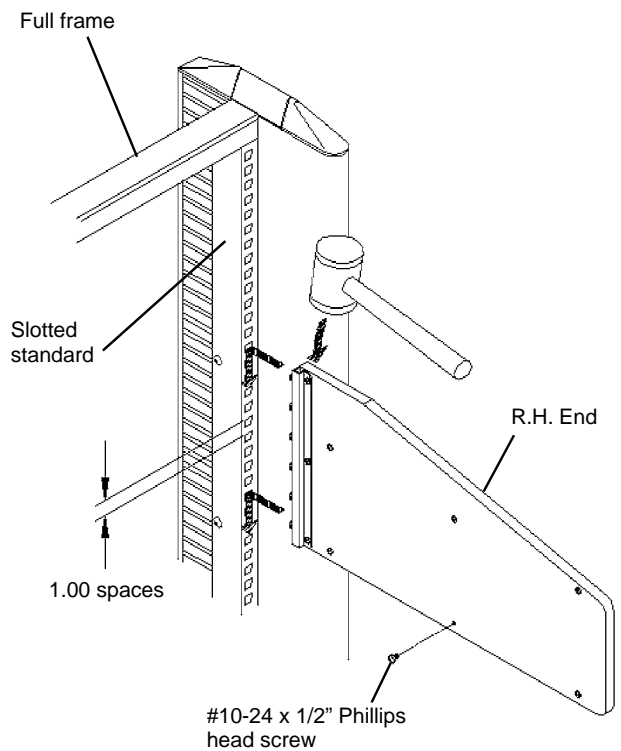
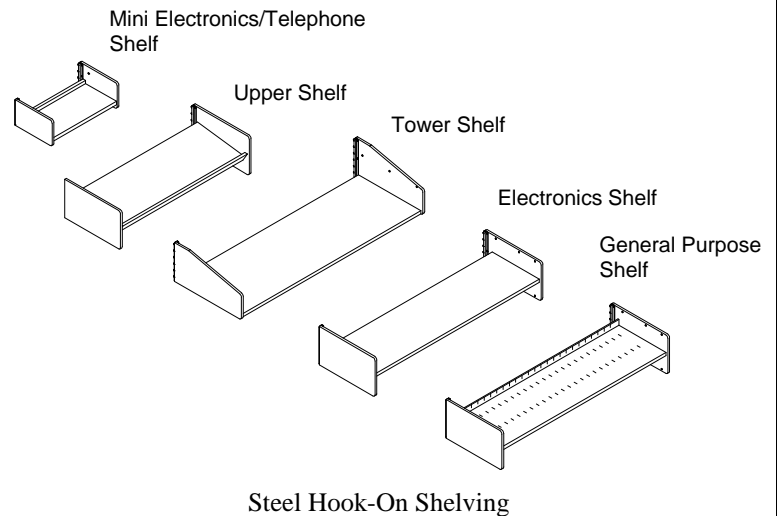
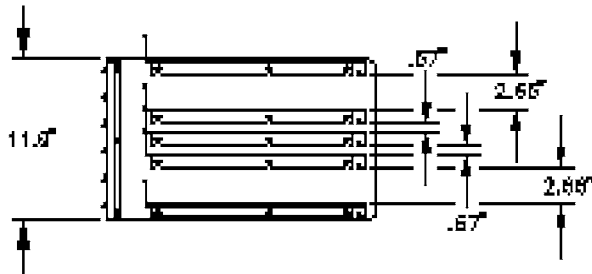
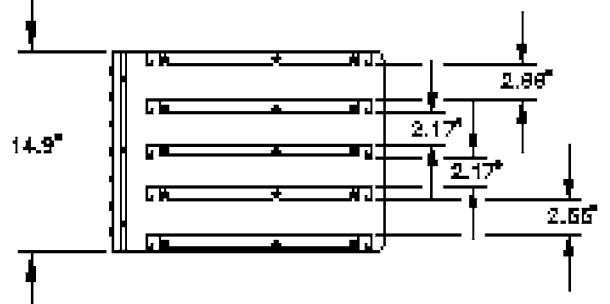
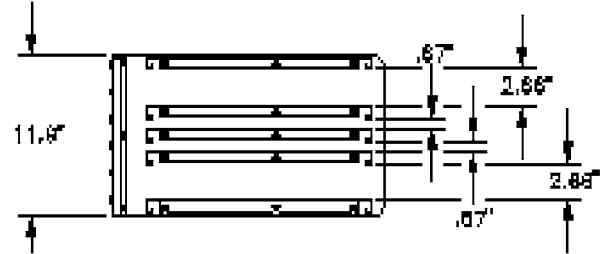
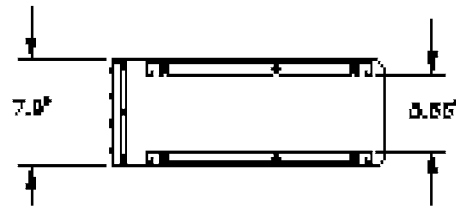


Figure 1

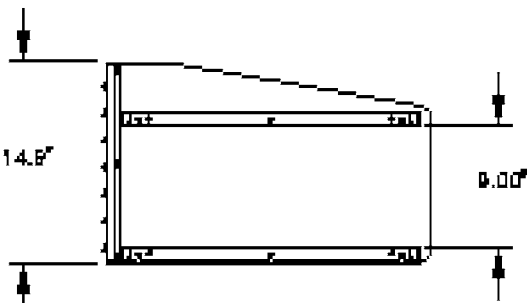
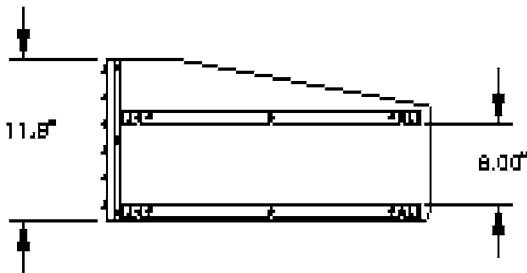
# Hook-on Shelving Components (cont.)



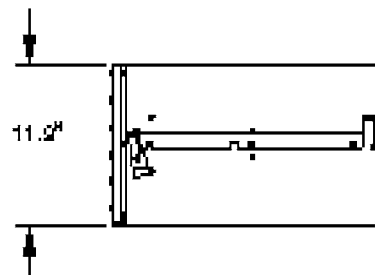
General Purpose



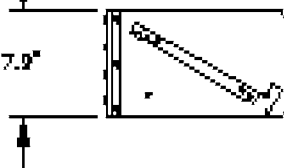
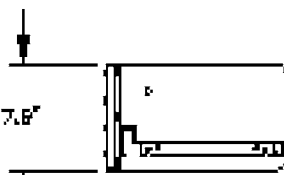
Electronics Shelf - 16.7" Deep



Tower Shelf - 22" Deep



Upper Shelf - 17.4" Deep



Mini Electronics/Telephone Shelf -  
11.0" Deep



technical furniture

# Hook-on Shelving Components (cont.)

### Parts List

| Part Number | Description                               | Qty. |
|-------------|---|------|
| <b>1</b>    | 1928X End Panel Ass'y, L.H.               | 1    |
|             | 1929X End Panel Ass'y, R.H.               |      |
| <b>2</b>    | 1922X 24" General Purpose Shelf           | 1    |
|             | 3433X 24" General Purpose Shelf W/ Hole   |      |
|             | 2414X 30" General Purpose Shelf           |      |
|             | 3434X 30" General Purpose Shelf W/ Hole   |      |
|             | 2415X 36" General Purpose Shelf           |      |
|             | 3437X 36" General Purpose Shelf W/ Hole   |      |
|             | 1923X 48" General Purpose Shelf           |      |
|             | 3443X 48" General Purpose Shelf W/ Hole   |      |
|             | 3444X 48" General Purpose Shelf W/ Hole   |      |
|             | 3445X 48" General Purpose Shelf W/ Hole   |      |
|             | 3448X 48" General Purpose Shelf W/3 Holes |      |
|             | 2448X 60" General Purpose Shelf           |      |
|             | 3449X 60" General Purpose Shelf W/ Hole   |      |
|             | 3450X 60" General Purpose Shelf W/ Hole   |      |
|             | 3451X 60" General Purpose Shelf W/ Hole   |      |
|             | 3452X 60" General Purpose Shelf W/2 Holes |      |
|             | 3453X 60" General Purpose Shelf W/2 Holes |      |
|             | 3454X 60" General Purpose Shelf W/2 Holes |      |
|             | 3455X 60" General Purpose Shelf W/3 Holes |      |
|             | 1924X 72" General Purpose Shelf           |      |
|             | 3456X 72" General Purpose Shelf W/ Hole   |      |
|             | 3457X 72" General Purpose Shelf W/ Hole   |      |
|             | 3458X 72" General Purpose Shelf W/ Hole   |      |
|             | 3459X 72" General Purpose Shelf W/2 Holes |      |

### Parts List

| Part Number | Description                               | Qty. |
|-------------|---|------|
| <b>2</b>    | 3460X 72" General Purpose Shelf W/2 Holes | 1    |
|             | 3461X 72" General Purpose Shelf W/2 Holes |      |
|             | 3462X 72" General Purpose Shelf W/3 Holes |      |
| <b>3</b>    | 55617 10-24 x 50" Pan Head Machine Screw  | 6-8  |
| <b>4</b>    | 2393X End Panel Ass'y L.H.                | 1    |
|             | 2394X End Panel Ass'y R.H.                |      |
| <b>5</b>    | 2380X 24" Tower Shelf                     | 1    |
|             | 2385X 30" Tower Shelf                     |      |
|             | 2386X 36" Tower Shelf                     |      |
|             | 2381X 48" Tower Shelf                     |      |
|             | 2388X 60" Tower Shelf                     |      |
| <b>6</b>    | 2382X 72" Tower Shelf                     | 1    |
|             | 2485X End Panel Ass'y L.H.                |      |
| <b>7</b>    | 2486X End Panel Ass'y R.H.                | 1    |
|             | 2829X End Panel Ass'y L.H.                |      |
| <b>8</b>    | 2830X End Panel Ass'y R.H.                | 1    |
|             | 2825X 24" Mini Electronic Shelf           |      |
|             | 2826X 30" Mini Electronic Shelf           |      |
|             | 2827X 36" Mini Electronic Shelf           |      |
| <b>9</b>    | 2765X 48" Mini Electronic Shelf           | 1    |
|             | 2397X End Panel Ass'y L.H.                |      |
|             | 2398X End Panel Ass'y R.H.                |      |

# Hook-on Shelving Components (cont.)

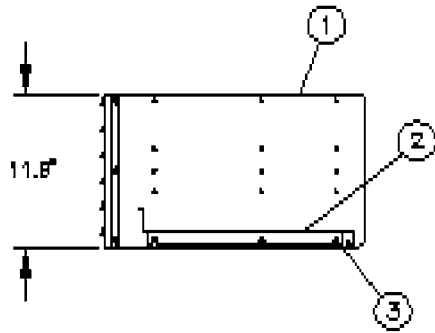
## Parts List

| Part Number     | Description                    | Qty. |
|-----------------|--------------------------------|------|
| 1925X           | 24" Electronic Shelf           | 1    |
| 3402X           | 24" Electronic Shelf W/ Hole   |      |
| 2389X           | 30" Electronic Shelf           |      |
| 3403X           | 30" Electronic Shelf W/ Hole   |      |
| 2412X           | 36" Electronic Shelf           |      |
| 3406X           | 36" Electronic Shelf W/ Hole   |      |
| 1926X           | 48" Electronic Shelf           |      |
| 3412X           | 48" Electronic Shelf W/ Hole   |      |
| 3413X           | 48" Electronic Shelf W/ Hole   |      |
| 3414X           | 48" Electronic Shelf W/ Hole   |      |
| 3417X           | 48" Electronic Shelf W/2 Holes |      |
| 2447X           | 60" Electronic Shelf           |      |
| <b>10</b> 3418X | 60" Electronic Shelf W/ Hole   |      |
| 3419X           | 60" Electronic Shelf W/ Hole   |      |
| 3420X           | 60" Electronic Shelf W/ Hole   |      |
| 3421X           | 60" Electronic Shelf W/2 Holes |      |
| 3422X           | 60" Electronic Shelf W/2 Holes |      |
| 3423X           | 60" Electronic Shelf W/2 Holes |      |
| 3424X           | 60" Electronic Shelf W/3 Holes |      |
| 1927X           | 72" Electronic Shelf           |      |
| 3425X           | 72" Electronic Shelf W/ Holes  |      |
| 3426X           | 72" Electronic Shelf W/ Hole   |      |
| 3427X           | 72" Electronic Shelf W/ Hole   |      |
| 3428X           | 72" Electronic Shelf W/2 Holes |      |
| 3429X           | 72" Electronic Shelf W/2 Holes |      |
| 3430X           | 72" Electronic Shelf W/2 Holes |      |

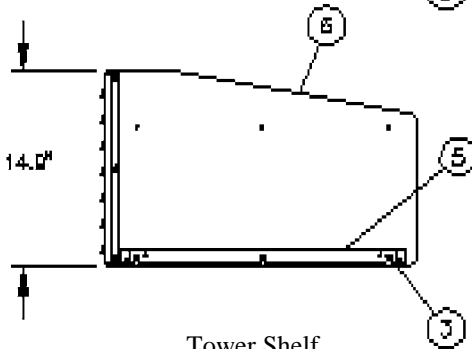
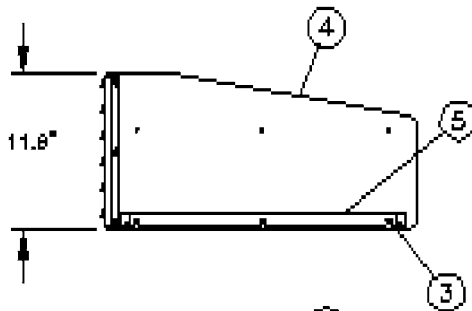
## Parts List

| Part Number     | Description                                    | Qty. |
|-----------------|--|------|
| <b>10</b> 3431X | 72" Electronic Shelf W/3 Holes                 | 1    |
| <b>11</b> 2395X | End Panel Ass'y L.H.                           | 1    |
| 2396X           | End Panel Ass'y R.H.                           |      |
| <b>12</b> 1917X | End Panel                                      | 2    |
| 1725X           | 24" Upper Shelf                                | 1    |
| 2430X           | 30" Upper Shelf                                |      |
| <b>13</b> 2431X | 36" Upper Shelf                                |      |
| 1726X           | 48" Upper Shelf                                |      |
| 2449X           | 60" Upper Shelf                                |      |
| 1727X           | 72" Upper Shelf                                |      |
| <b>14</b> 1708X | Hook Plate, L.H.                               | 1    |
| 1709X           | Hook Plate R.H.                                |      |
| <b>15</b> 53956 | 1/4"-20 x 3/4" Phillips Pan Head Machine Screw | 6    |

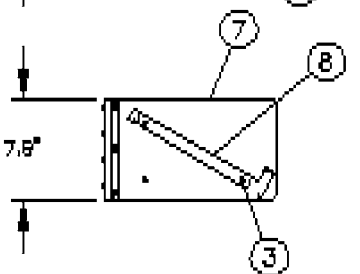
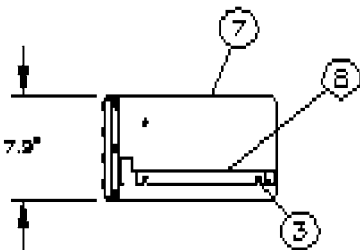
# Hook-on Shelving Components (cont.)



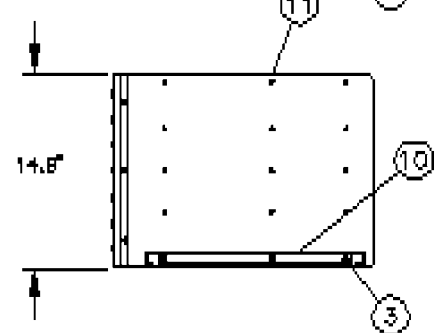
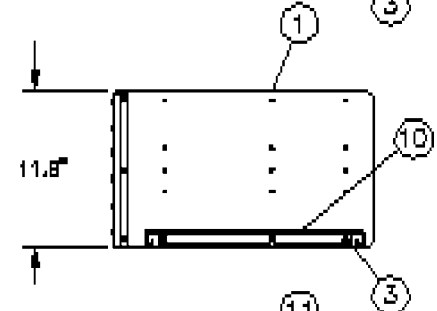
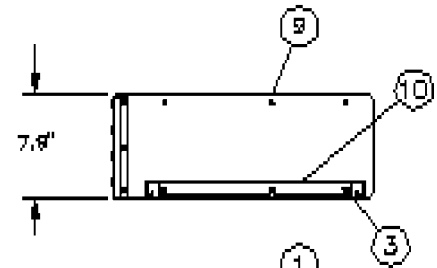
General Purpose Shelf



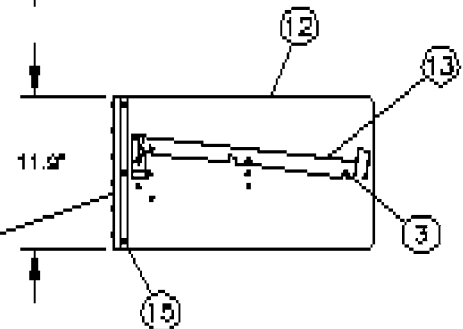
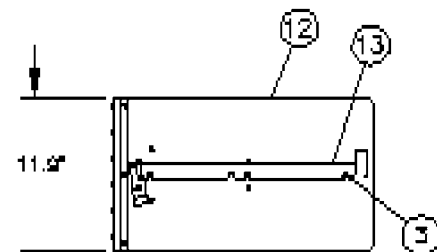
Tower Shelf



Mini Electronics/Telephone Shelf



Electronics Shelf



Upper Shelf

# Steel Shelving

## technical furniture

Please read these instructions carefully and follow the installation steps in sequence.

### Tools Required

- Phillips head screwdriver
- Plastic mallet
- 3/8" Wrench

1. Determine the desired location of the **Steel Shelf** and attach the **Brackets** to the frame as shown in **figure 1**.

**NOTE:** Be sure that the Brackets are at the same level.

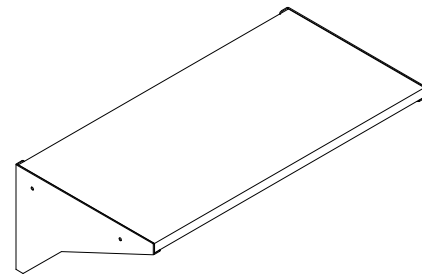
Tap the top of each Bracket with a plastic mallet to be that the hooks are fully seated.

2. Lock the Brackets in place by installing a 1/4" -20 x 1/2" hex washer head thread forming screw using a 3/8" wrench. See **figure 1**.
3. With two people, carefully place the Shelf onto the Brackets and align the holes in the bottom of the Shelf with the holes in the Brackets. Fasten the shelf in place using three #10-24 x 1/2" phillips head thread forming screws on each side. See **figure 2**.

**NOTE:** It may be necessary to rotate the Shelf 180° to align the attachment holes.

### MAXIMUM SHELF LOADING

The recommended maximum shelf loading is 300 lbs. Heavy Duty Shelf Supports (LA12) can be purchased separately to increase the weight capacity of the shelf.



Steel Shelving

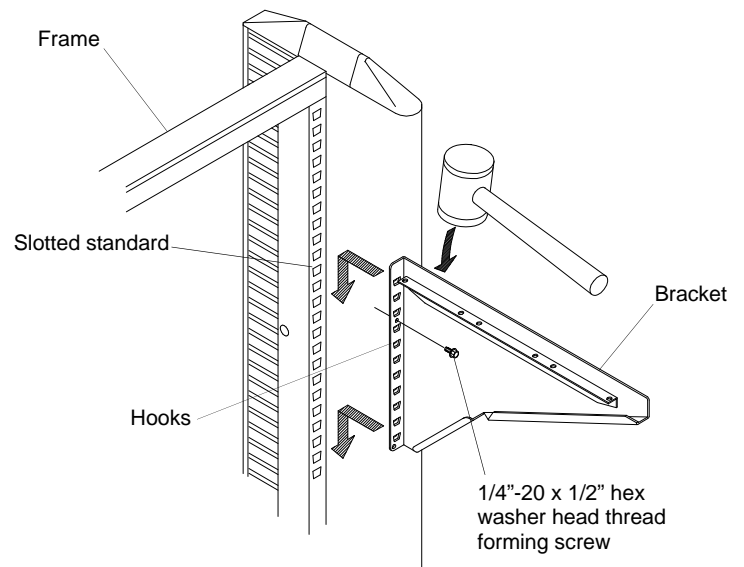


Figure 1

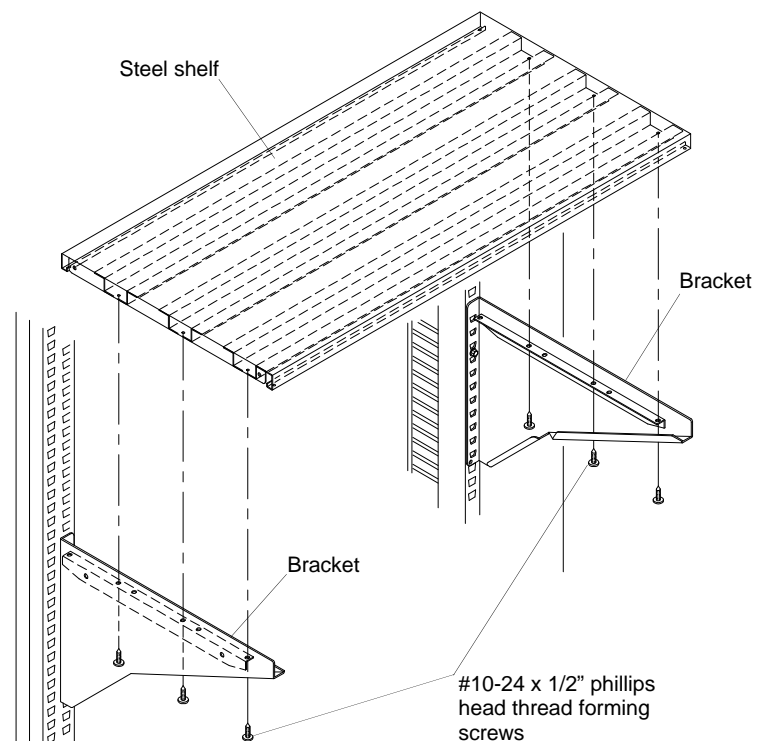
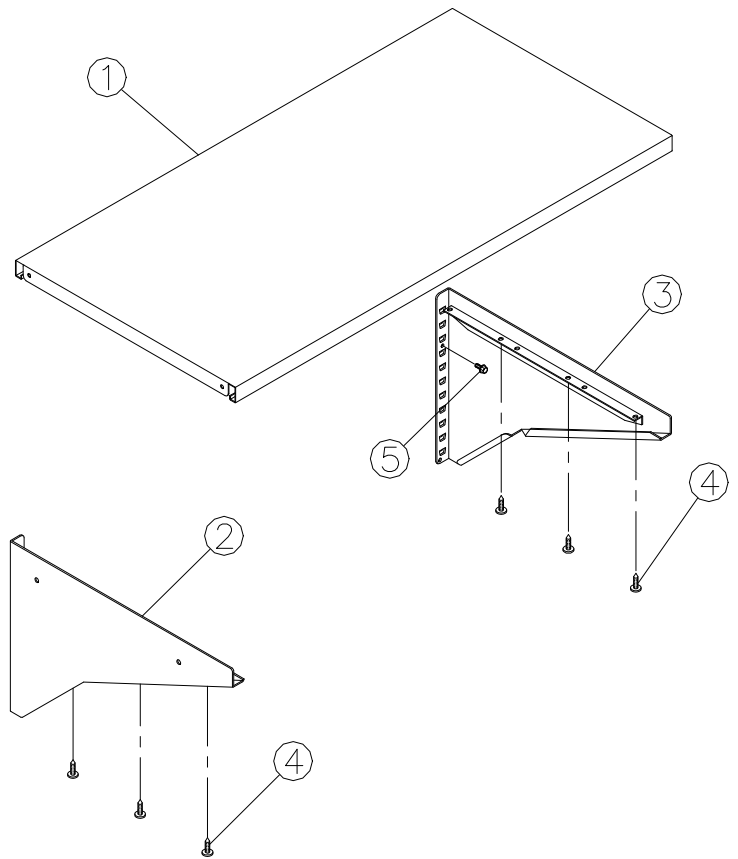


Figure 2

## Parts List

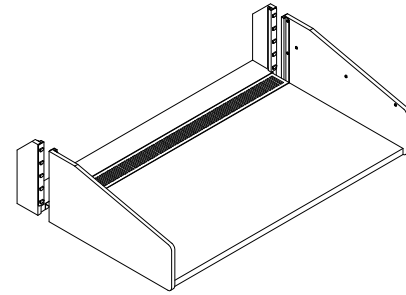
| Part Number             | Description   | Qty. |
|-------------------------|---|------|
| 1                       | 8580X 24"W x 18"D Shelf                               | 1    |
|                         | 8581X 30"W x 18"D Shelf                               |      |
|                         | 8582X 36"W x 18"D Shelf                               |      |
|                         | 8583X 42"W x 18"D Shelf                               |      |
|                         | 8584X 48"W x 18"D Shelf                               |      |
|                         | 8585X 60"W x 18"D Shelf                               |      |
|                         | 8586X 72"W x 18"D Shelf                               |      |
|                         | 8587X 24"W x 24"D Shelf                               |      |
|                         | 8588X 30"W x 24"D Shelf                               |      |
|                         | 8589X 36"W x 24"D Shelf                               |      |
|                         | 8590X 42"W x 24"D Shelf                               |      |
|                         | 8591X 48"W x 24"D Shelf                               |      |
|                         | 8592X 60"W x 24"D Shelf                               |      |
|                         | 8593X 72"W x 24"D Shelf                               |      |
|                         | 8594X 24"W x 27"D Shelf                               |      |
|                         | 8595X 30"W x 27"D Shelf                               |      |
|                         | 8596X 36"W x 27"D Shelf                               |      |
|                         | 8597X 42"W x 27"D Shelf                               |      |
|                         | 8598X 48"W x 27"D Shelf                               |      |
|                         | 8599X 60"W x 27"D Shelf                               |      |
| 8600X 72"W x 27"D Shelf |   |      |
| 2                       | 8601X Bracket, 12" x 18.2" - L.H.                     | 1    |
|                         | 8603X Bracket, 12" x 24.2" - L.H.                     |      |
|                         | 8605X Bracket, 12" x 27.2" - L.H.                     |      |
| 3                       | 8602X Bracket, 12" x 18.2" - R.H.                     | 1    |
|                         | 8604X Bracket, 12" x 24.2" - R.H.                     |      |
|                         | 8606X Bracket, 12" x 27.2" - R.H.                     |      |
| 4                       | 66714 #10-24 x Phillips Pan Head Thread Forming Screw | 6    |
| 5                       | 54348 1/4"-20 x 1/2" Hex Washer Head Screw            | 2    |



# Deeper Tower Computer Shelf

**NOTE:** The 28" Deep Tower Shelf consists of a rear Shelf Extension and Slotted Filler used in conjunction with a 22" Tower Shelf. When placed at the bottom of the Frame, the shelf must be pre-assembled to the End Panels for access to and tightening of the mounting screws.

1. Install the front Tower Shelf first, following the previous instructions. **NOTE:** the screws protruding from the long edge are on the back of the shelf.
2. Install (2) #10-24 x 1/2" (13mm) Phillips head machine screws in each End Panel. Leave approximately 1/8" (3mm) of thread exposed. See **Figure 1**.
3. Pre-assemble the Shelf Extension to the End Panels. Engage the rear screw first then lower the front onto its screw. Tighten both screws. See **Figure 2**.



Deeper Tower Computer Shelf

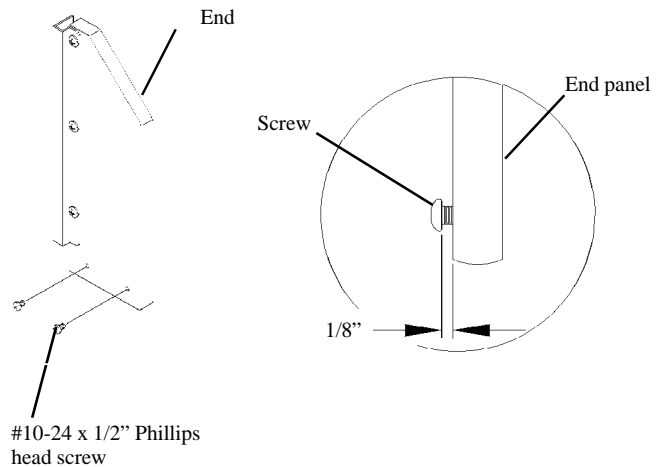


Figure 1

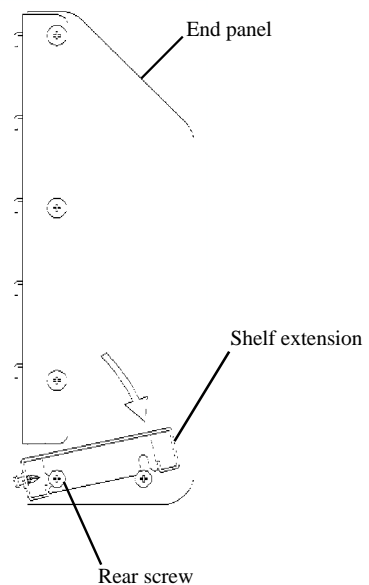


Figure 2

# Deeper Tower Computer Shelf (cont.)

4. With two people, position the Shelf Extension End Panels opposite the End Panels of the already positioned Tower Shelf. To assure the hooks are seated in the slotted standard, tap the top rear corner with a plastic mallet or equivalent. See **Figure 3**.
5. The Slotted Filler(s) are placed between the two shelves. They are supported by the special screws protruding from the rear of the shelves. See **Figure 4**.

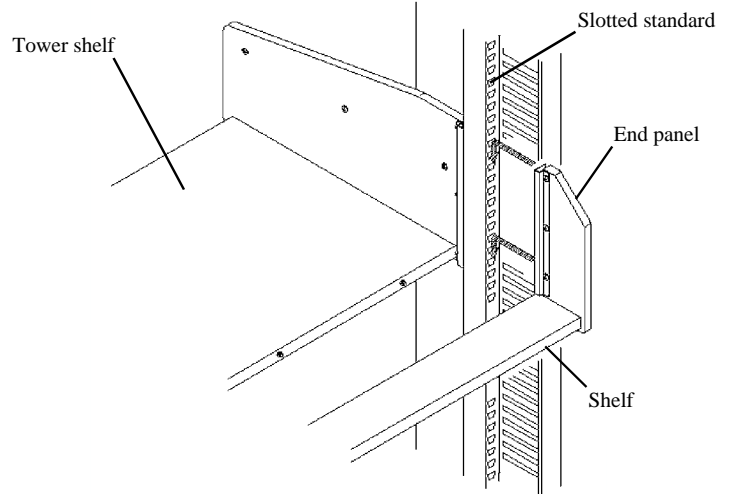


Figure 3

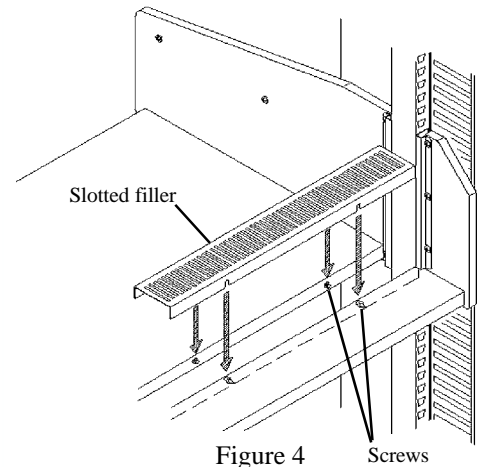


Figure 4

technical furniture

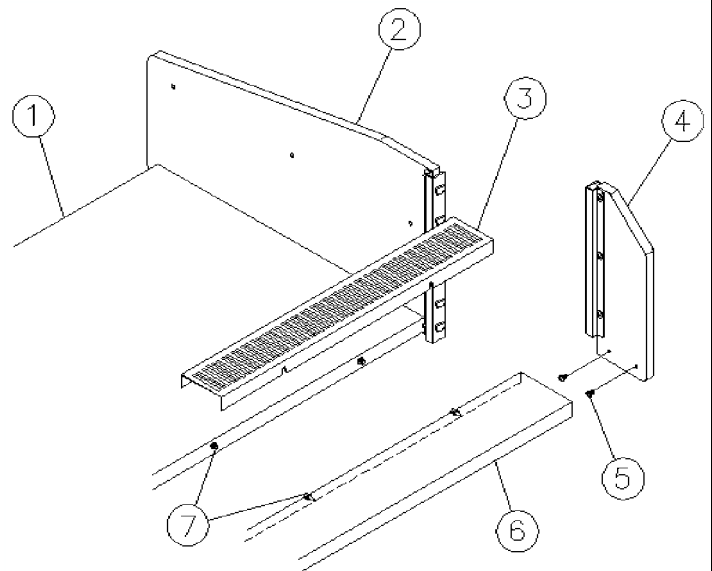
# Deeper Tower Computer Shelf (cont.)

## Parts List

| Part Number                 | Description                  | Qty. |
|-----------------------------|------------------------------|------|
| <b>1</b>                    | 2380X 24" Tower Shelf        | 1    |
|                             | 2385X 30" Tower Shelf        |      |
|                             | 2386X 36" Tower Shelf        |      |
|                             | 2381X 48" Tower Shelf        |      |
|                             | 2388X 60" Tower Shelf        |      |
|                             | 2382X 72" Tower Shelf        |      |
| <b>2</b>                    | 2393X End Panel Ass'y L.H.   | 1    |
|                             | 2394X End Panel Ass'y R.H.   |      |
| <b>3</b>                    | 2557X 24" Filler, 1.0" Frame | 1    |
|                             | 2558X 30" Filler, 1.0" Frame |      |
|                             | 2559X 36" Filler, 1.0" Frame |      |
|                             | 2560X 42" Filler, 1.0" Frame |      |
|                             | 2589X 24" Filler, 2.2" Frame |      |
|                             | 2590X 30" Filler, 2.2" Frame |      |
|                             | 2591X 36" Filler, 2.2" Frame |      |
|                             | 2592X 42" Filler, 2.2" Frame |      |
|                             | 3260X 24" Filler, LMS Basic  |      |
|                             | 7064X 30" Filler, LMS Basic  |      |
|                             | 7065X 36" Filler, LMS Basic  |      |
|                             | 7066X 42" Filler, LMS Basic  |      |
|                             | 3261X 48" Filler, LMS Basic  |      |
|                             | 3262X 60" Filler, LMS Basic  |      |
|                             | 3263X 72" Filler, LMS Basic  |      |
|                             | <b>4</b>                     |      |
| 2547X End Panel Ass'y, R.H. |                              |      |

## Parts List

| Part Number | Description                                | Qty. |
|-------------|--|------|
| <b>5</b>    | 55617 #10-24 x .50" Pan Head Machine Screw | 4    |
| <b>6</b>    | 2550X 24" Shelf Extension                  | 1    |
|             | 2551X 30" Shelf Extension                  |      |
|             | 2552X 36" Shelf Extension                  |      |
|             | 2554X 48" Shelf Extension                  |      |
|             | 2555X 60" Shelf Extension                  |      |
|             | 2556X 72" Shelf Extension                  |      |
| <b>7</b>    | 80302 #10-32 MT x3/8" Thread Cutting Screw | 4-12 |





# Heavy Duty Shelf Support

## Tools Required

- Phillips head screwdriver
- Plastic mallet

**Heavy Duty Shelf Supports** may be installed with Tower, Electronics and General purpose shelves to increase their load capacity.

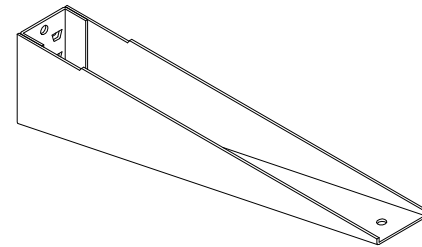
**NOTE:** Two people are required for installation of the larger shelf sizes; i.e. 48" (1219mm) and larger.

1. Install the shelf in the desired location following the instructions in the previous sections. **DO NOT** tighten the six screws which fasten the shelf to the end panels at this time. See **Figure 1**.

**NOTE:** If the Shelf Supports are being installed on a pre-installed shelf, unload the shelf and loosen the six screws which fasten it to the end panels.

When using the Heavy Duty Shelf Supports, the minimum distance that a shelf can be located to the floor is 6.65".

2. Mark the location of the two trapezoid slots in the slotted standard(s) directly below the shelf. See **Figure 2**.
3. Remove the shelf from the end panels and install the Shelf Supports by inserting the top pair of hooks into the marked slots in the slotted standard and push down. To assure the hooks are seated, tap the top rear of the Shelf Support with a plastic mallet or equivalent. See **Figure 3**.
4. With two people, re-install the shelf. Carefully position the shelf over the screws on the end panels. Drop the shelf in place and tighten the screws.



Heavy Duty Shelf Support  
Part No. 8161X

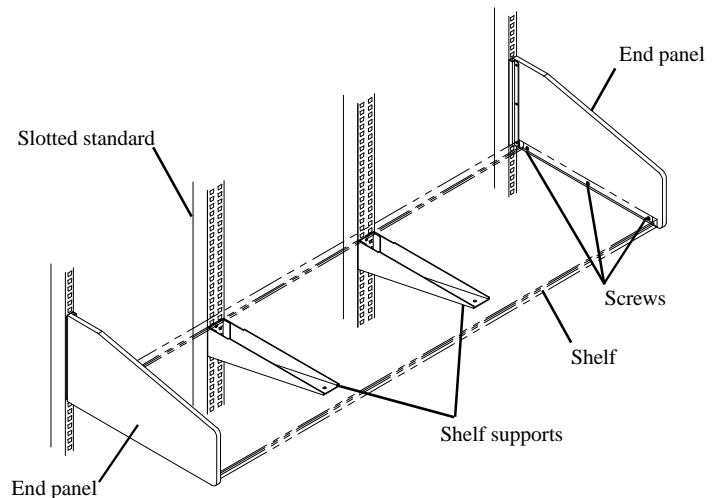


Figure 1

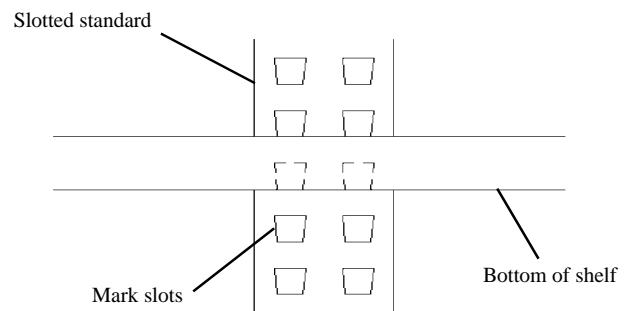


Figure 2

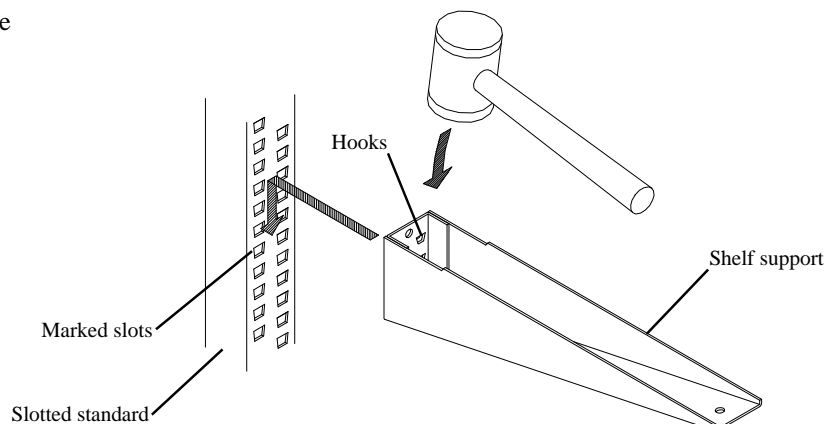
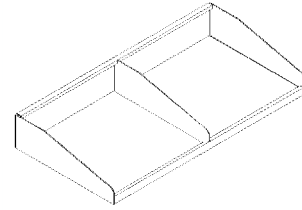


Figure 3

**Tools Required**

- Plastic mallet

**NOTE:** Fully welded **Forms Tray** includes integrated hooks at the back of the shelf which attach the component to a Full Frame. A removable **Shelf Divider** is also included.



Forms Tray

1. Determine the location of the Forms Tray on the Full Frame.
2. Insert the hooks on the back of the Forms Tray into the slotted standards on the Full Frame and push down. See **Figure 1**

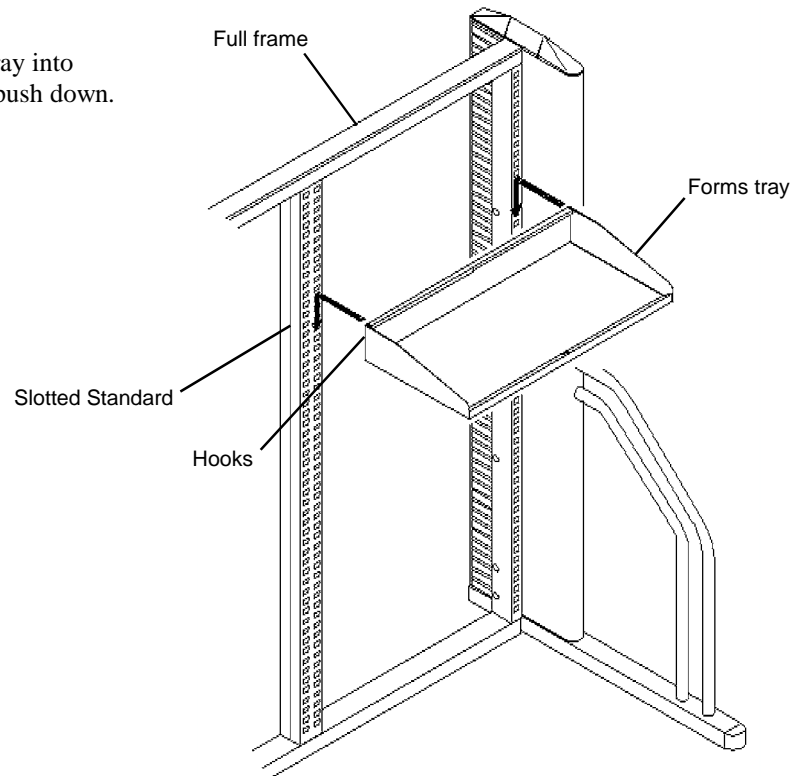


Figure 1

3. Attach the Shelf Divider if desired. See **Figure 2**.

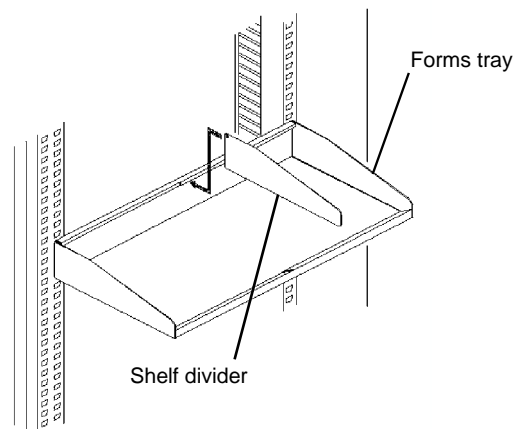
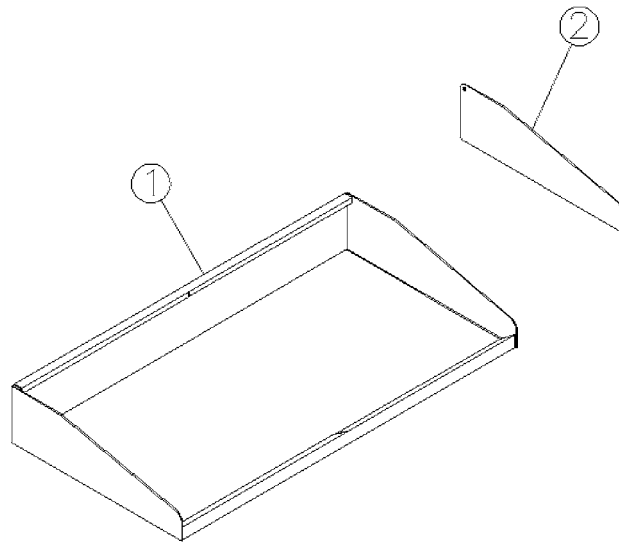


Figure 2

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# Forms Tray (cont.)

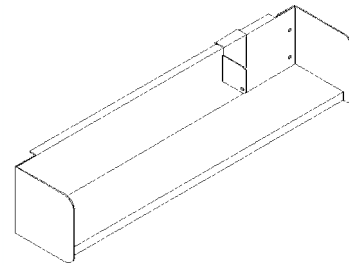
| <b>Parts List</b> |       |                |      |
|-------------------|-------|----------------|------|
| Part Number       |       | Description    | Qty. |
| <b>1</b>          | 3774X | 24" Forms Tray | 1    |
|                   | 5051X | 30" Forms Tray |      |
|                   | 5052X | 36" Forms Tray |      |
| <b>2</b>          | 3775X | Divider        | 1    |



**Tools Required**

-Plastic mallet

1. Stand the Uprights apart at approximately the width of the component.
2. Place the **Tape Shelf** in position at the top of the uprights by inserting the hooks at each end of the component into the slotted standards and pushing down. To assure that the hooks are seated, tap the rear corners with a plastic mallet or equivalent. See **Figure 1**.
3. Space the Tape Shelves according to the chart below.
4. The **Index** is attached to the Tape Shelf by hooking it onto the flange at the top of the shelf. See **Figure 2**.



Universal Tape Shelf

**COMPONENT SPACING (CONFIGURATION) CHART**

| MEDIA                    | SPACE REQ'D | NO. OF SLOTS VISIBLE |
|--------------------------|-------------|----------------------|
| 8mm Video Cartridge      | 5.00"       | ~                    |
| Data Cartridge 185'      |             |                      |
| 16mm Microfilm Cartridge |             |                      |
| 16mm in Box              | 6.00"       | 1                    |
| TK50 Cartridge           |             |                      |
| 3480 Cartridge           | 8.00"       | 3                    |
| Data Cartridge 600'      |             |                      |
| VHS Tape                 | 9.00"       | 4                    |
| VHS Tape (professional)  | 11.00"      | 6                    |

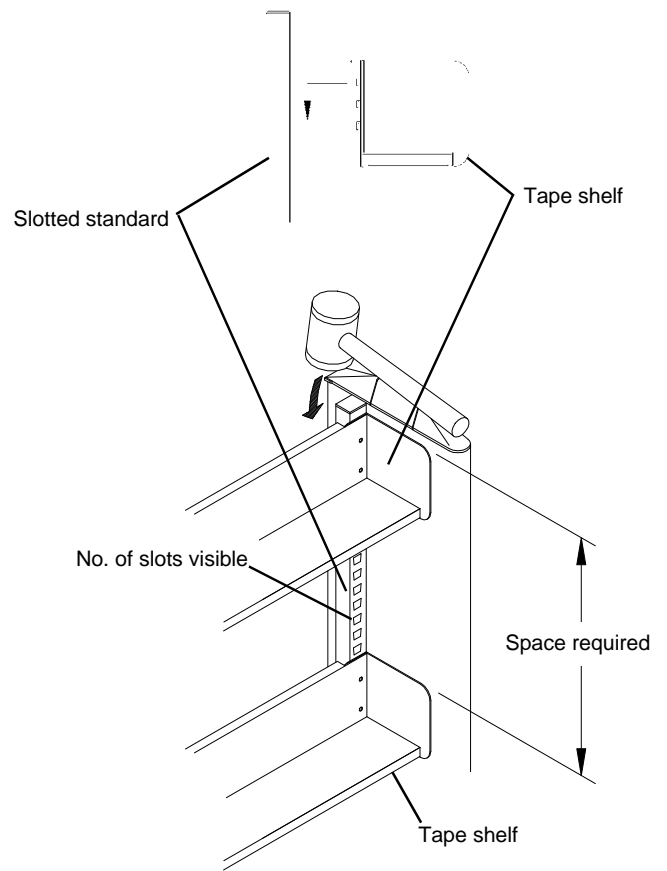


Figure 1

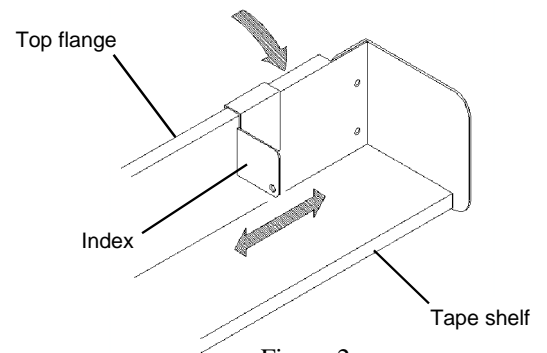
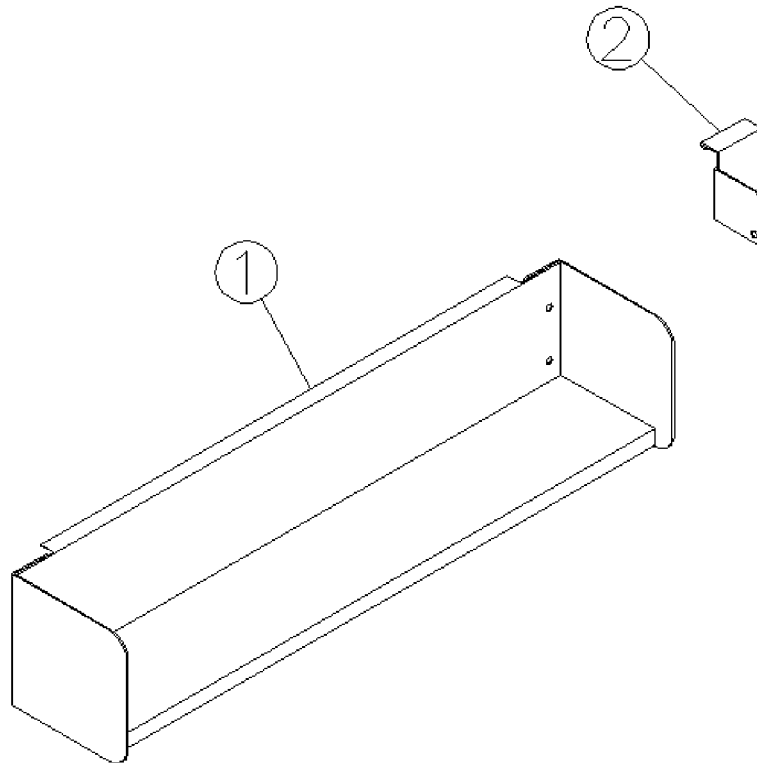


Figure 2

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# Universal Tape Shelf (cont.)

| <b>Parts List</b> |       |                          |      |
|-------------------|-------|--------------------------|------|
| Part Number       |       | Description              | Qty. |
| <b>1</b>          | 2863X | 24" Universal Tape Shelf | 1    |
|                   | 1919X | 30" Universal Tape Shelf |      |
|                   | 4288X | 36" Universal Tape Shelf |      |
|                   | 1921X | 48" Universal Tape Shelf |      |
| <b>2</b>          | 1918X | Index                    | 1    |

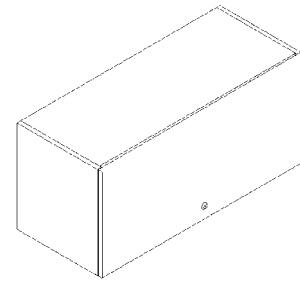


# Locking Compartment

## Tools Required

- Phillips head screwdriver
- Plastic mallet

**NOTE:** Some assembly may require assistance.



Locking Compartment

## REAR AND END PANEL INSTALLATION

1. Install the **Rear Panel** by inserting the hooks on either side of the panel into the Slotted Standards of the Full Frame and pushing down. To assure that the hooks are seated, tap the top corners with a plastic mallet or equivalent. See **Figure 1**.
2. Position the **End Panels** as shown in **Figure 2**. Insert the hooks on the End Panels into the Slotted Standards and push down. Tap the top corners of the panels with a plastic mallet to assure that the hooks are seated.

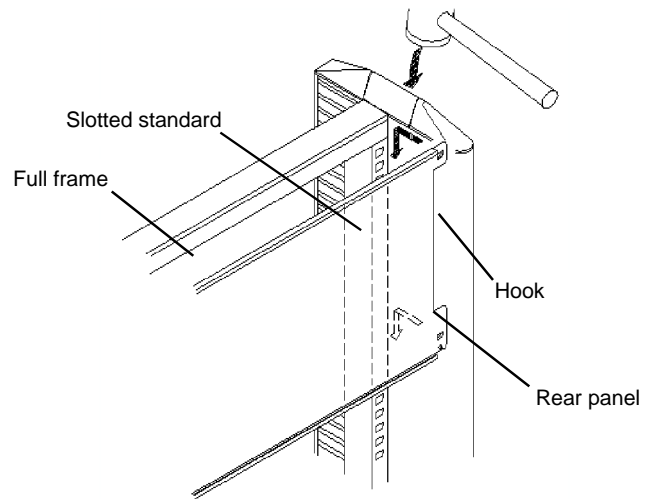


Figure 1

## SHELF INSTALLATION

1. There are three factory installed screws along the top and bottom edge of each Side Panel. These screws must be backed out approximately 1/8" (3mm) as shown in **Figure 3** (inset).
2. After backing out all six lower screws, position the **Shelf** between the End Panels above the screws. Lower the Shelf so that all six screws engage their corresponding slots in the Shelf. Next, tighten the screws to secure the Shelf. See **Figure 3**.

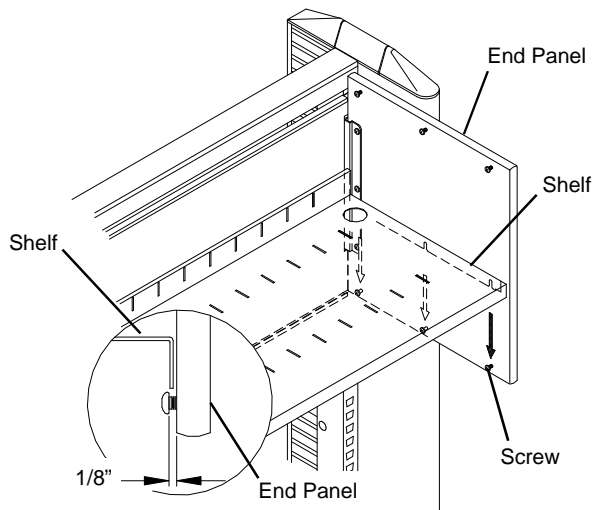


Figure 3

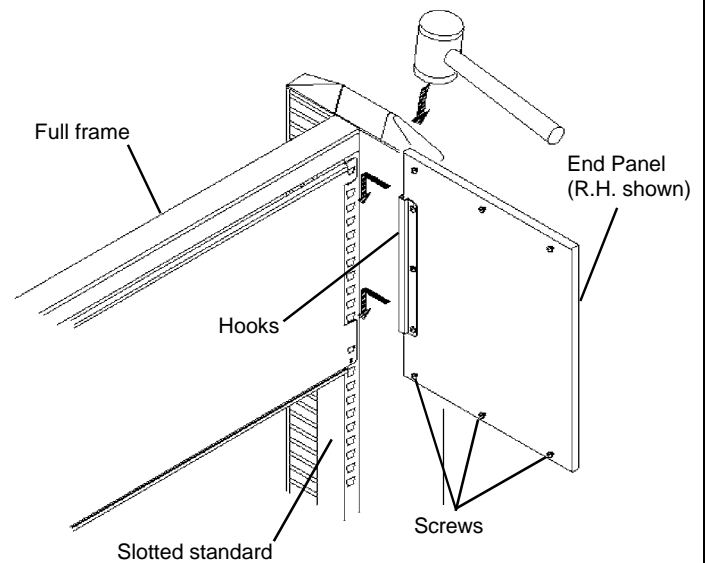


Figure 2

## TOP INSTALLATION

1. Before installing the **Top**, make sure that the three screws at the top of each End Panel is backed out 1/8" (3mm) as shown in **Figure 3**.
2. Position the Top between the End Panels above the screws. **NOTE:** The Receeding Door mounting holes must face towards the front. Lower the Top so that all six screws engage their corresponding slots in the Top. Next, tighten the screws to secure the Top. See **Figure 4**.

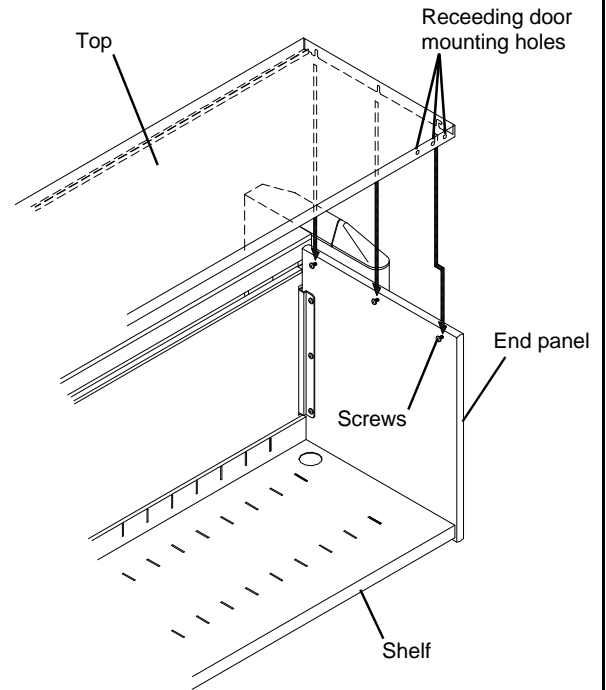


Figure 4

## RECEEDING DOOR INSTALLATION

1. Place the **Receding Door** assembly face up on top of the Locking Compartment. See **Figure 5**. Position the two **Door Track** hinges against the front flange of the Top. The Door edges must be aligned with the outer surfaces of the End Panels. Align the slots in the Door Track hinges with the six holes in the front flange of the Top. Install and tighten six #8 Phillips head sheet metal screws into the Door Track hinges to secure them. See **Figure 5**.

To operate the Receeding Door, grasp the lower edge of the door panel near the center and pull the door all the way toward you. Carefully lower the door to the closed position. Reverse this procedure to open the door.

**NOTE:** Never allow the Receeding Door to slam closed. Personal injury or damage to the unit may result.

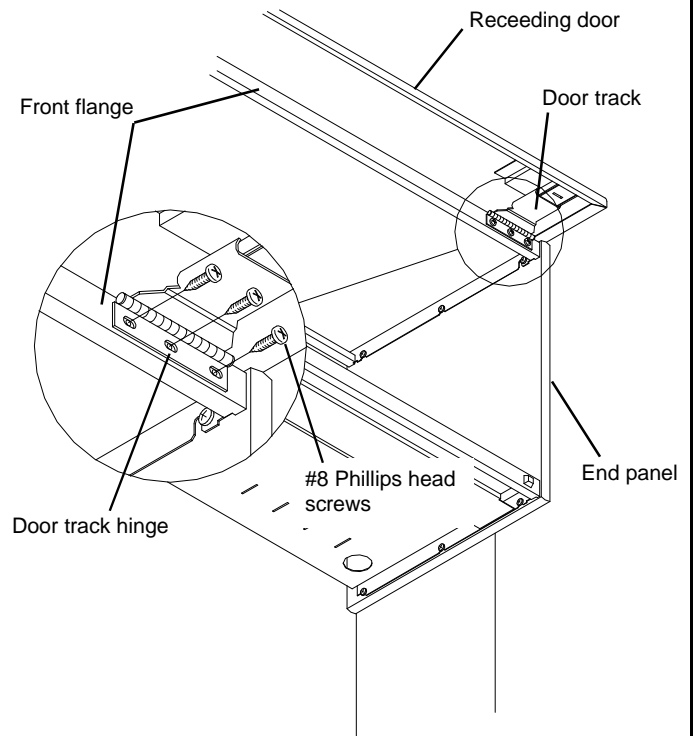


Figure 5

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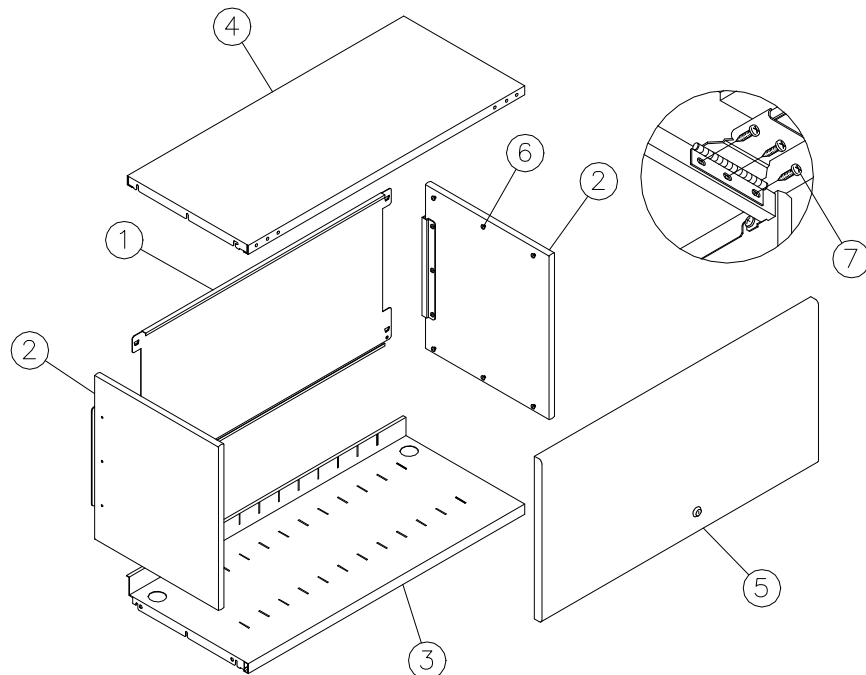
# Locking Compartment

## Parts List

| Part Number | Description                    | Qty. |
|-------------|--------------------------------|------|
| <b>1</b>    | 2614X Rear Panel, 24"          | 1    |
|             | 1870X Rear Panel, 30"          |      |
|             | 3334X Rear Panel, 36"          |      |
|             | 2615X Rear Panel, 48"          |      |
| <b>2</b>    | 1877X End Panel Assembly, L.H. | 1    |
|             | 1878X End Panel Assembly, R.H. |      |
| <b>3</b>    | 6583X Shelf, 24"               | 1    |
|             | 1864X Shelf, 30"               |      |
|             | 3333X Shelf, 36"               |      |
|             | 2610X Shelf, 48"               |      |
| <b>4</b>    | 8236X Top, 24"                 | 1    |
|             | 8237X Top, 30"                 |      |
|             | 8238X Top, 36"                 |      |
|             | 8240X Top, 48"                 |      |

## Parts List

| Part Number | Description                               | Qty. |
|-------------|---|------|
| <b>5</b>    | 8204X Receeding Door, 24"                 | 1    |
|             | 8205X Receeding Door, 30"                 |      |
|             | 8206X Receeding Door, 36"                 |      |
|             | 8208X Receeding Door, 48"                 |      |
| <b>6</b>    | 68374 #8AB x .50" Phillips Pan Head Screw | 12   |
| <b>7</b>    | 66249 #8 x 3/8" Phillips Pan Head Screw   | 6    |
| <b>8</b>    | 1575X Extra Dividers                      | 5    |





technical furniture

# High Capacity Laminate Hook-on Shelves

## Tools required

-Plastic mallet

1. Determine the location of the **Shelf**. Position the Shelf Supports as shown in **Figure 1**. Insert the hooks on the back of the supports into the slotted standards and push down.
2. To assure the hooks are seated, tap the top rear corner with a plastic mallet or equivalent.

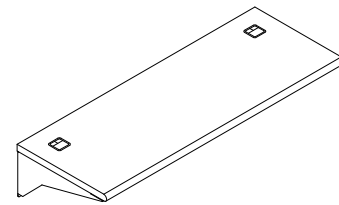
## Note

**Two shelf supports are required with shelves 24"(610mm) thru 42"(1067mm) wide.**

**Three shelf supports are required with 48"(1219mm) and 60"(1524mm) wide shelves.**

**Four shelf supports are required with 72" (1829mm) wide shelves.**

3. Align the pre-drilled holes in the bottom surface of the shelf with the holes in the left hand and right hand shelf supports. See **Figure 2**.
  4. Fasten the shelf to the left /right hand shelf supports using the four #10AB x 5/8" long phillips head screws provided. See **Figure 2**.
- NOTE:** Only the *outer* left/right hand supports are attached to the shelf.
5. Lock the shelf supports in position with the #10-24 x 3/8" long phillips head screws provided. See **Figure 3**.



High Capacity Laminate Shelf

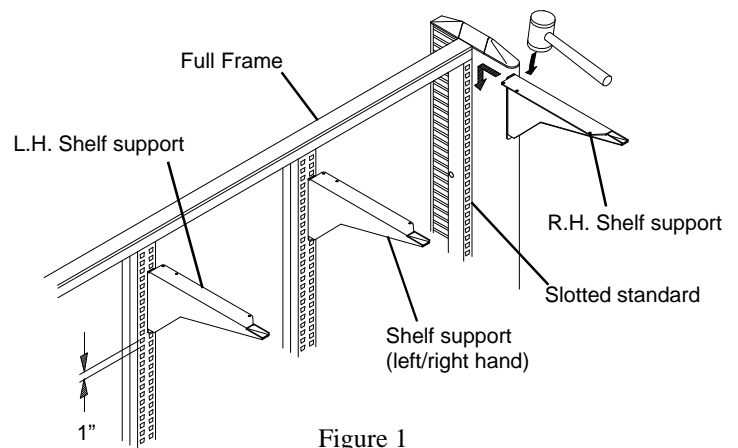


Figure 1

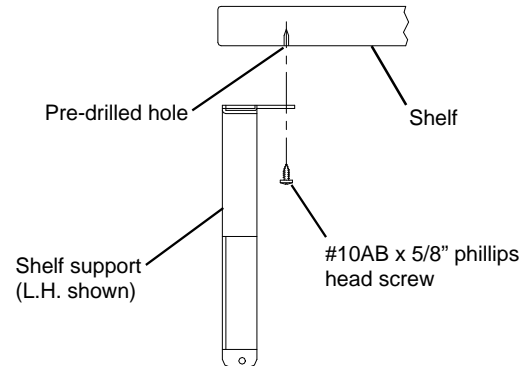


Figure 2

| Maximun Shelf Loading            |                    |                   |
|----------------------------------|--------------------|-------------------|
| Shelf Width                      | Number of Brackets | Load Capacity     |
| 24" -42" Shelves<br>610mm-1067mm | 2                  | 300 lbs<br>136 kg |
| 48"-60" Shelves<br>1219mm-1524mm | 3                  | 500 lbs<br>227 kg |
| 72" Shelves<br>1828mm            | 4                  | 750 lbs<br>342 kg |

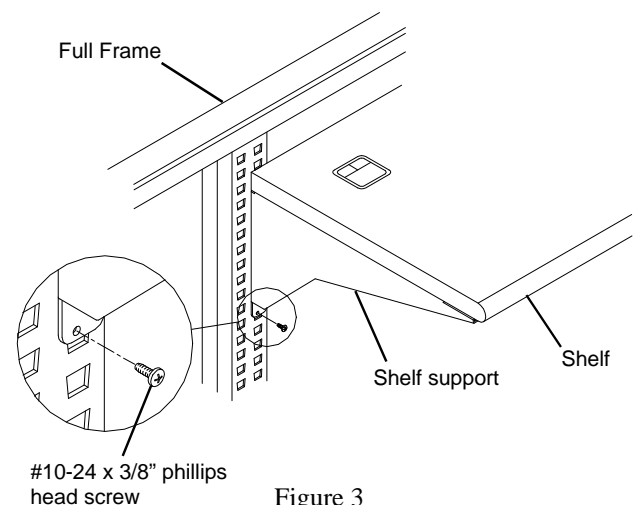


Figure 3

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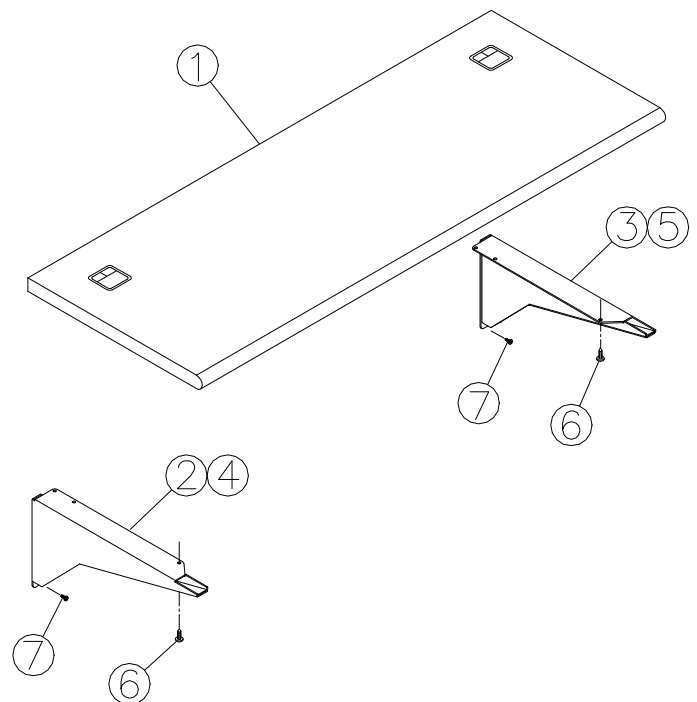
# High Capacity Laminate Hook-on Shelves (cont.)

## Parts List

| Part Number | Description               | Qty. |
|-------------|---------------------------|------|
| 2984X       | Laminate Shelf, 12" x 24" | 1    |
| 2985X       | Laminate Shelf, 12" x 30" |      |
| 2986X       | Laminate Shelf, 12" x 36" |      |
| 2987X       | Laminate Shelf, 12" x 42" |      |
| 2988X       | Laminate Shelf, 12" x 48" |      |
| 2989X       | Laminate Shelf, 12" x 60" |      |
| 2990X       | Laminate Shelf, 12" x 72" |      |
| 2991X       | Laminate Shelf, 18" x 24" |      |
| 2992X       | Laminate Shelf, 18" x 30" |      |
| 2993X       | Laminate Shelf, 18" x 36" |      |
| 2994X       | Laminate Shelf, 18" x 42" |      |
| 2995X       | Laminate Shelf, 18" x 48" |      |
| 2996X       | Laminate Shelf, 18" x 60" |      |
| 2997X       | Laminate Shelf, 18" x 72" |      |
| 2998X       | Laminate Shelf, 24" x 24" |      |
| 2999X       | Laminate Shelf, 24" x 30" |      |
| 3000X       | Laminate Shelf, 24" x 36" |      |
| 3001X       | Laminate Shelf, 24" x 42" |      |
| 3002X       | Laminate Shelf, 24" x 48" |      |
| 3003X       | Laminate Shelf, 24" x 60" |      |
| 3004X       | Laminate Shelf, 24" x 72" |      |

## Parts List

| Part Number | Description   | Qty. |
|-------------|---|------|
| 2           | 8156X 8" x 11" Shelf Support - L.H., 12" Deep Shelf       | 1-2  |
| 3           | 8157X 8" x 11" Shelf Support - R.H., 12" Deep Shelf       | 1-2  |
| 4           | 8154X 8" x 17" Shelf Support - L.H., 18"/24" Deep Shelves | 1-2  |
| 5           | 8155X 8" x 17" Shelf Support - R.H., 18"/24" Deep Shelves | 0-2  |
| 6           | 82287 #10AB x 5/8" Phillips Pan Head Thread Forming Screw | 4    |
| 7           | 66714 #10-24 x 3/8" Phillips Pan Head Self Tapping screw  | 2    |

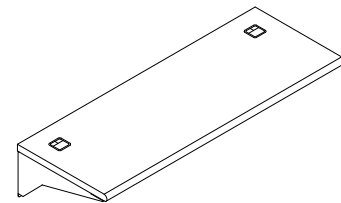


# L a m i n a t e H o o k - o n S h e l v e s

**Tools required**

-Plastic mallet

1. Determine the location of the **Shelf**. Position the Shelf Supports as shown in **Figure 1**. Insert the hooks on the back of the supports into the trapezoid shaped slots in the upright posts and push down.
2. To assure the hooks are seated, tap the top rear corner with a plastic mallet or equivalent.
3. Align the pre-drilled holes in the bottom surface of the shelf with the holes in the left hand and right hand shelf supports. See **Figure 2**.
4. Fasten the shelf to the left /right hand shelf supports using the four #10AB x 5/8" long phillips head screws provided. See **Figure 2**.
5. Lock the shelf supports in position with the #10-24 x 3/8" long phillips head screws provided. See **Figure 3**.



Laminate Shelf

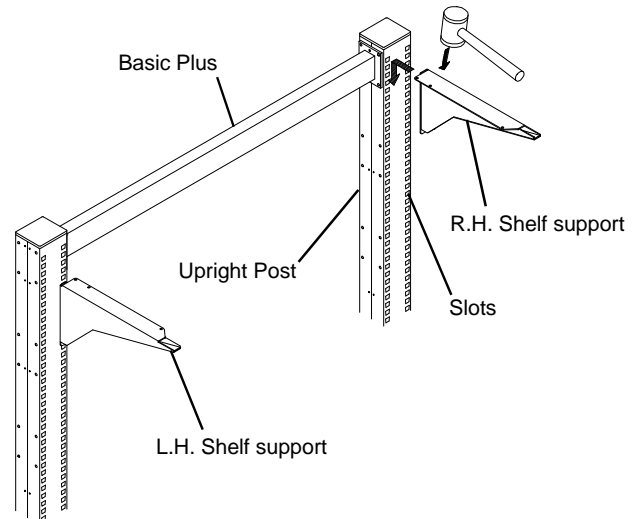


Figure 1

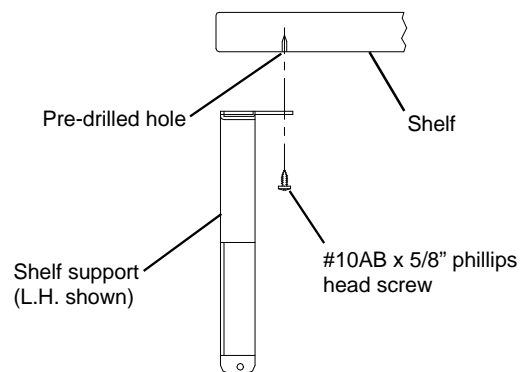
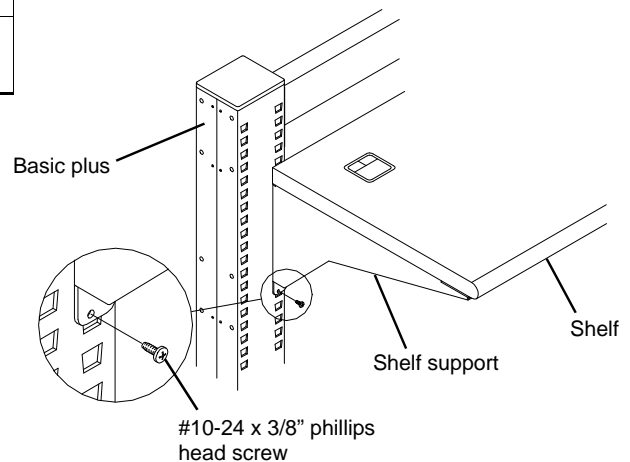


Figure 2



| Maximun Shelf Loading            |                    |                   |
|----------------------------------|--------------------|-------------------|
| Shelf Width                      | Number of Brackets | Load Capacity     |
| 24" -42" Shelves<br>610mm-1067mm | 2                  | 300 lbs<br>136 kg |
| 48"-60" Shelves<br>1219mm-1524mm | 2                  | 300 lbs<br>227 kg |
| 72" Shelves<br>1828mm            | 2                  | 300 lbs<br>342 kg |

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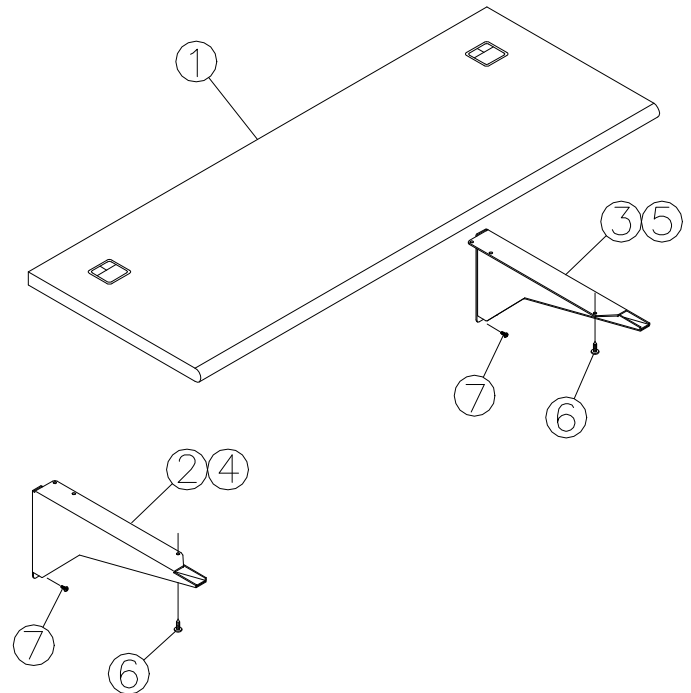
# Laminate Hook-on Shelves (cont.)

## Parts List

| Part Number | Description                   | Qty. |
|-------------|-------------------------------|------|
| 6136X       | 48" x 12" Laminate Shelf      | 1    |
| 6138X       | 60" x 12" Laminate Shelf      |      |
| 6140X       | 72" x 12" Laminate Shelf      |      |
| 6137X       | 48" x 12" Laminate Shelf, ESD |      |
| 6139X       | 60" x 12" Laminate Shelf, ESD |      |
| 6141X       | 72" x 12" Laminate Shelf, ESD |      |
| 6142X       | 48" x 18" Laminate Shelf      |      |
| 6144X       | 60" x 18" Laminate Shelf      |      |
| 6146X       | 72" x 18" Laminate Shelf      |      |
| 3852X       | 48" x 18" Laminate Shelf, ESD |      |
| 6145X       | 60" x 18" Laminate Shelf, ESD |      |
| 6147X       | 72" x 18" Laminate Shelf, ESD |      |
| 6148X       | 48" x 24" Laminate Shelf      |      |
| 6150X       | 60" x 24" Laminate Shelf      |      |
| 6152X       | 72" x 24" Laminate Shelf      |      |
| 6149X       | 48" x 24" Laminate Shelf, ESD |      |
| 6151X       | 60" x 24" Laminate Shelf, ESD |      |
| 6153X       | 72" x 24" Laminate Shelf, ESD |      |

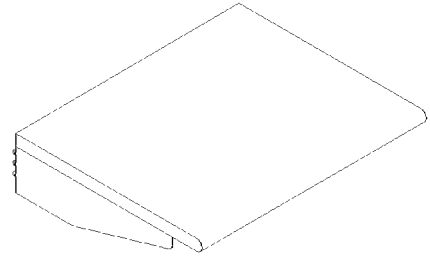
## Parts List

| Part Number | Description   | Qty. |
|-------------|---|------|
| 2           | 8156X 8" x 11" Shelf Support - L.H., 12" Deep Shelf       | 1    |
| 3           | 8157X 8" x 11" Shelf Support - R.H., 12" Deep Shelves     | 1    |
| 4           | 8154X 8" x 17" Shelf Support - L.H., 18"/24" Deep Shelves | 1    |
| 5           | 8155X 8" x 17" Shelf Support - R.H., 18"/24" Deep Shelves | 1    |
| 6           | 82237 #10AB x 5/8" Phillips Pan Head Thread Forming Screw | 4    |
| 7           | 66714 #10-24 x 3/8" Phillips Pan Head Self Tapping Screw  | 2    |



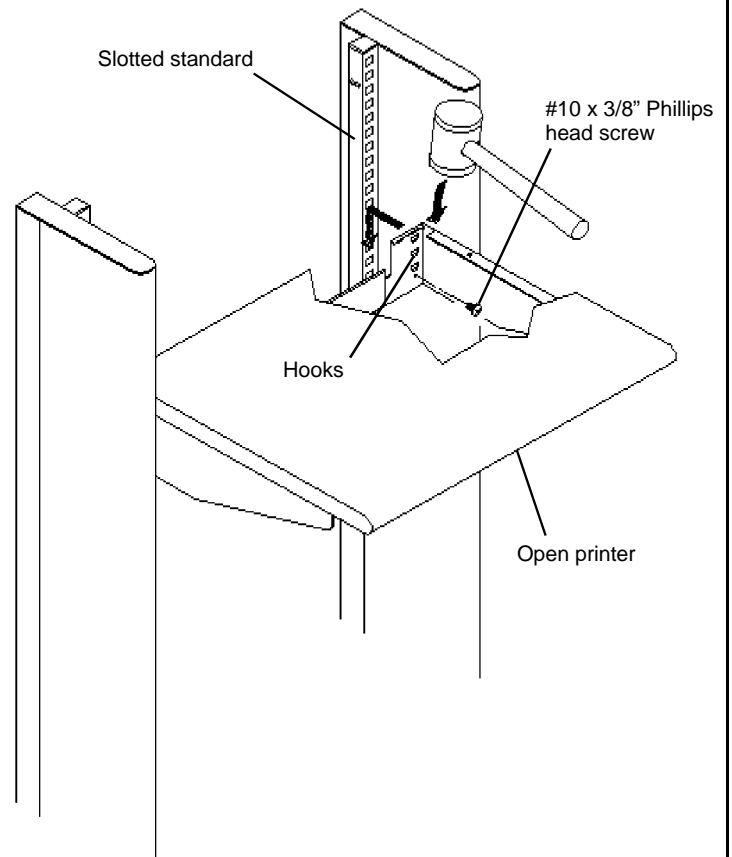
**Tools Required**

- Phillips head screwdriver
- Plastic mallet



Open Printer Shelf

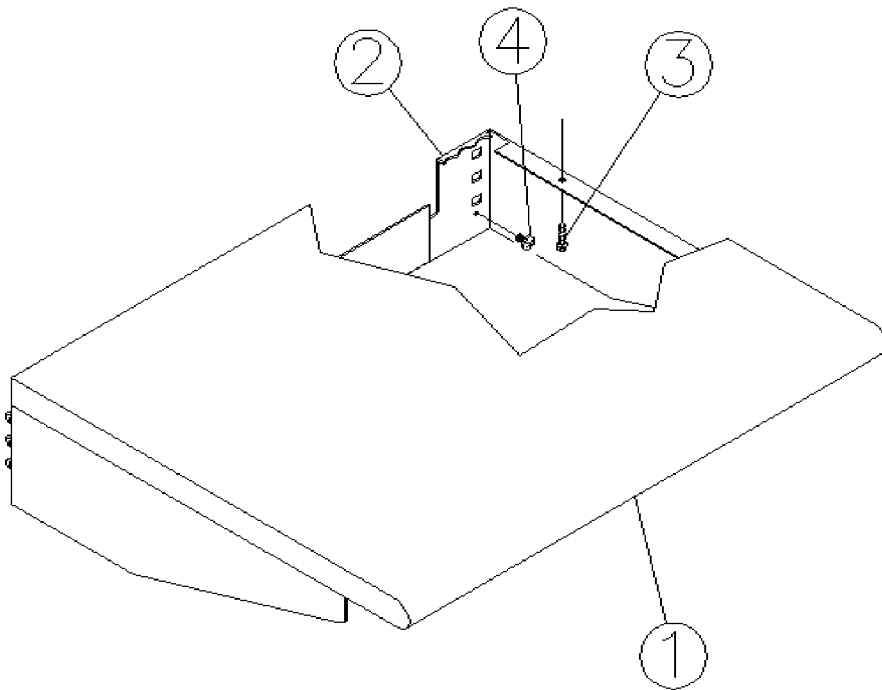
1. Determine the location of the **Open Printer Shelf** and insert the rear hooks into the slotted standards and push down. To assure that the hooks are seated, tap the rear corners with a plastic mallet or equivalent. See **Figure 1**.
2. To prevent accidental disengagement of the shelf, install the two #10 x 3/8" Phillips head screws into the holes located below the hooks. See **Figure 1**.



technical furniture

# Open Printer Shelf (cont.)

| Parts List  |       |                                    |      |
|-------------|-------|------------------------------------|------|
| Part Number |       | Description                        | Qty. |
| 1           | 5399X | 24" Open Printer Shelf             | 1    |
|             | 5400X | 30" Open Printer Shelf             |      |
|             | 5546X | 24" Open Printer Shelf, ESD        |      |
|             | 5547X | 30" Open Printer Shelf, ESD        |      |
| 2           | 4569X | 24" Support Frame                  | 1    |
|             | 4570X | 30" Support Frame                  |      |
| 3           | 64857 | #10 x 3/4" Hex Washer Head Screw   | 6    |
| 4           | 66250 | #10 x 3/8" Phillips Pan Head Screw | 2    |



# Forms Feed and Receiver Racks

**Tools Required**

-None

**NOTE:** The **Forms Feed** and **Receiver Rack** may be installed on the Linx Open Printer Shelves, Electronics Shelves and General Purpose Shelves.

The illustrations show installation on the Open Printer Shelf.

**NOTE:** The Feed Rack must be installed first to shelf.

1. Hook the lower hooks of the Forms Receiver Rack onto the back crosswire of the Forms Feed Rack. See **Figure 1**.
2. Squeeze the two upper hooks inward and pivot the Receiver Rack upward to engage the hooks onto the Feed Rack. See **Figure 2**.

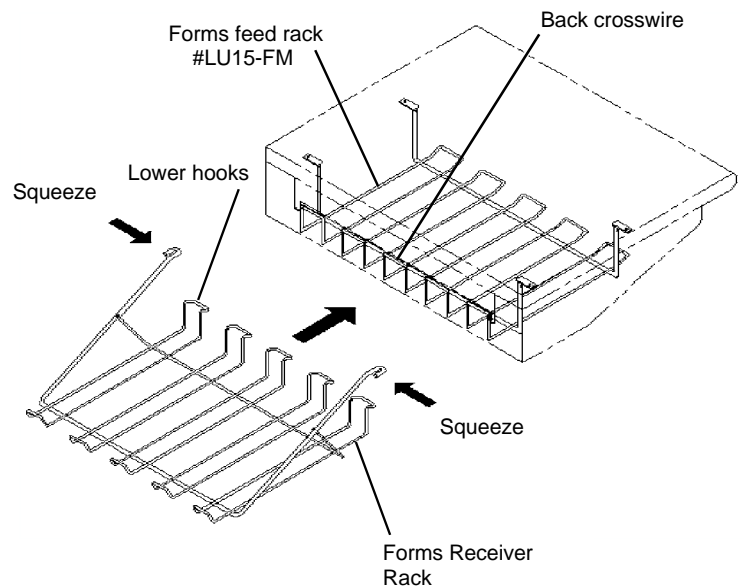


Figure 1

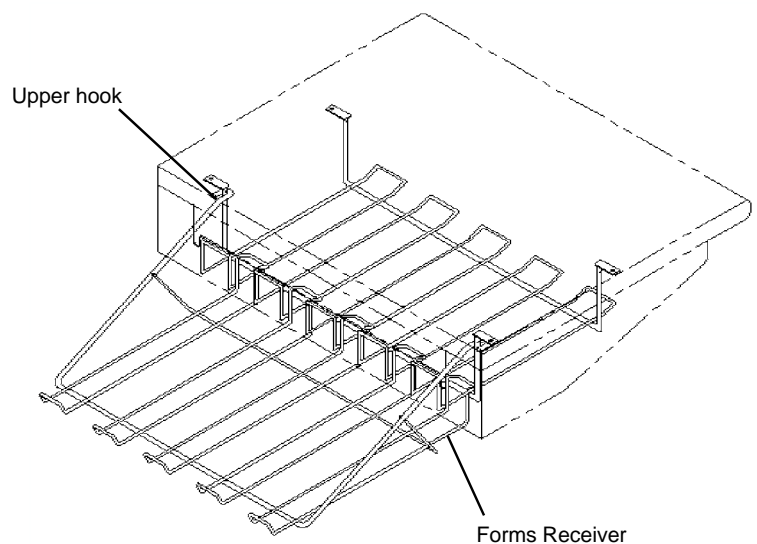


Figure 2

# Linear Incline Hook-on Shelves

**Tools Required**

- Plastic Mallet
- Phillips head screwdriver
- Flat blade screwdriver

1. Assemble the **Front Stop** to the shelf, using the #10AB x 1-3/4" phillips pan head thread forming screws provided.  
See **Figure 1**.

**Note**

The front stop must be installed on the Incline Shelving to prevent equipment from sliding forward and off the shelf. If your equipment can be safely secured to the shelf (Wright Line suggests using "Safety Fasteners"), hole plugs are provided in lieu of Front Stop assembly.

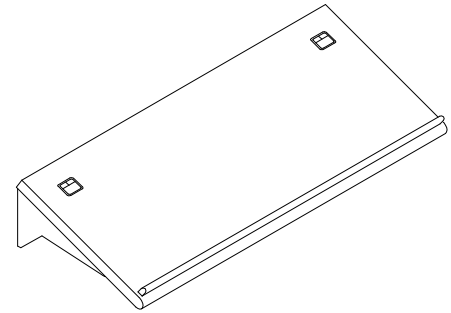
2. Determine the location of the shelf. Position the **Shelf Supports** as shown in **Figure 2**. Insert the hooks on the back of the supports into the slotted standard of the Full Frame and push down.

To assure the hooks are seated, tap the top rear corner with a plastic mallet or equivalent

**Note**

Two shelf supports are required for 24", 30", 36" and 42" wide shelves.

Three shelf supports are required for 48" and 60" wide shelves.



Incline Shelving

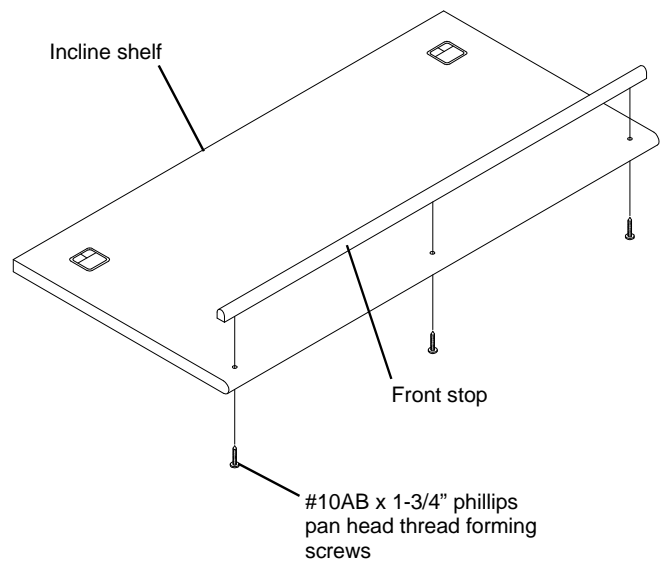


Figure 1

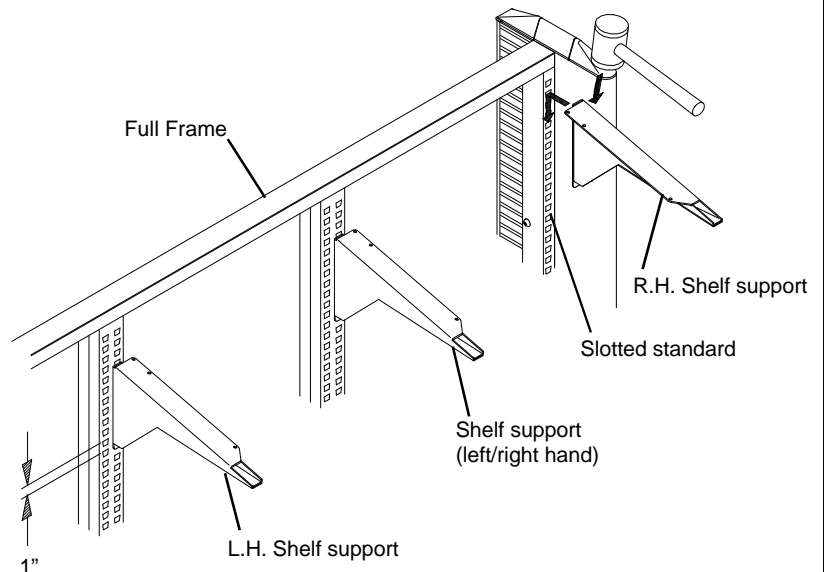


Figure 2



# Linear Incline Hook-on Shelves (cont.)

3. Align the pre-drilled holes in the bottom surface of the shelf with the holes in the left hand and right hand shelf supports. See **Figure 3**.
4. Fasten the shelf to the left /right hand shelf supports using the four #10AB x 5/8" long phillips head screws provided. See **Figure 3**.

**NOTE:** Only the *outer* left/right hand supports are attached to the shelf.

5. Lock the shelf supports in position with the #10-24 x 3/8" long phillips head screws provided. See **Figure 4**.

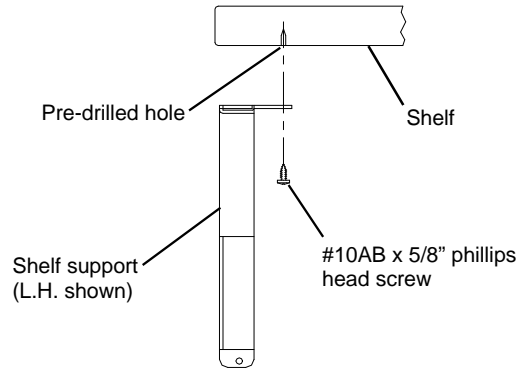


Figure 3

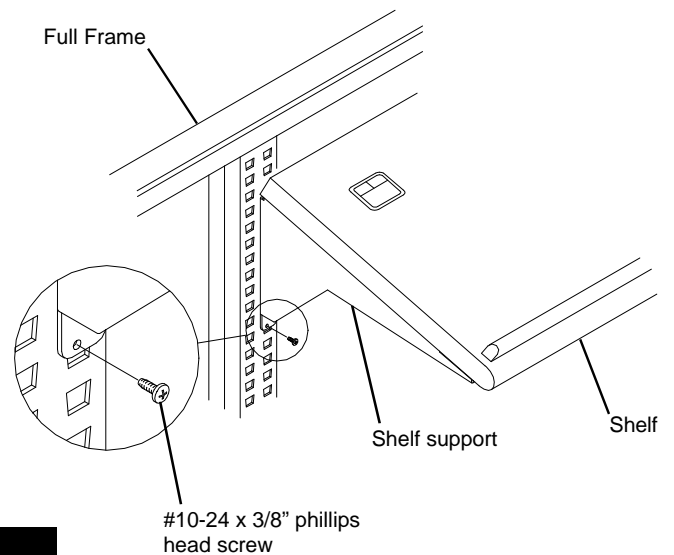


Figure 4

| Maximum Shelf Loading             |                    |                   |
|-----------------------------------|--------------------|-------------------|
| Shelf Width                       | Number of Brackets | Load Capacity     |
| 24" -42" Shelves<br>610mm-1067mm  | 2                  | 300 lbs<br>136 kg |
| 48" -60" Shelves<br>1219mm-1524mm | 3                  | 500 lbs<br>227 kg |
| 72" Shelves<br>1828mm             | 4                  | 750 lbs<br>342 kg |

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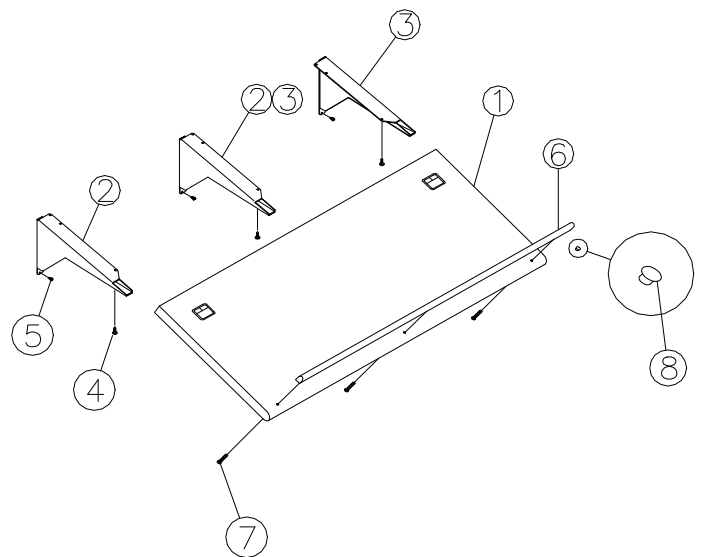
# Linear Incline Hook-on Shelves (cont.)

## Parts List

| Part Number | Description                  | Qty.                          |   |
|-------------|------------------------------|-------------------------------|---|
| <b>1</b>    | 3618X                        | Inclined Shelf, 18"x 24"      | 1 |
|             | 3619X                        | Inclined Shelf, 18"x 30"      |   |
|             | 3620X                        | Inclined Shelf, 18"x 36"      |   |
|             | 3622X                        | Inclined Shelf, 18"x 48"      |   |
|             | 3623X                        | Inclined Shelf, 18"x 60"      |   |
|             | 3624X                        | Inclined Shelf, 18"x 72"      |   |
|             | 3625X                        | Inclined Shelf, 24"x 24"      |   |
|             | 3626X                        | Inclined Shelf, 24"x 30"      |   |
|             | 3627X                        | Inclined Shelf, 24"x 36"      |   |
|             | 3629X                        | Inclined Shelf, 24"x 48"      |   |
|             | 3630X                        | Inclined Shelf, 24"x 60"      |   |
|             | 3631X                        | Inclined Shelf, 24"x 72"      |   |
|             | 4157X                        | Inclined Shelf, 18"x 24", ESD |   |
|             | 4158X                        | Incline Shelf, 18"x 30", ESD  |   |
| 4159X       | Incline Shelf, 18"x 36", ESD |                               |   |
| 4161X       | Incline Shelf, 18"x 48", ESD |                               |   |
| 4162X       | Incline Shelf, 18"x 60", ESD |                               |   |
| 4163X       | Incline Shelf, 18"x 72", ESD |                               |   |
| 4164X       | Incline Shelf, 24"x 24", ESD |                               |   |
| 4165X       | Incline Shelf, 24"x 30", ESD |                               |   |
| 4166X       | Incline Shelf, 24"x 36", ESD |                               |   |
| 4168X       | Incline Shelf, 24"x 48", ESD |                               |   |
| 4169X       | Incline Shelf, 24"x 60", ESD |                               |   |
| 4170X       | Incline Shelf, 24"x 72", ESD |                               |   |

## Parts List

| Part Number | Description | Qty.   |     |
|-------------|-------------|--|-----|
| <b>2</b>    | 8158X       | 8"x 17" 15° Shelf Support - L.H.                     | 1-2 |
| <b>3</b>    | 8159X       | 8"x 17" 15° Shelf Support - R.H.                     | 1-2 |
| <b>4</b>    | 82287       | #10AB x 5/8" Phillips Pan Head Thread Forming Screw  | 4   |
| <b>5</b>    | 66714       | #10-24 x 3/8" Phillips Pan Head Self Tapping Screw   | 2-4 |
| <b>6</b>    | 8970X       | 29" Front Stop                                       | 1   |
|             | 8971X       | 35" Front Stop                                       |     |
|             | 8973X       | 47" Front Stop                                       |     |
|             | 8974X       | 59" Front Stop                                       |     |
|             | 8975X       | 71" Front Stop                                       |     |
| <b>7</b>    | 85320       | #10AB x 1.75" Phillips Pan Head Thread Forming Screw | 3-6 |
| <b>8</b>    | 87034       | Hole Plug  | 3-6 |



# Corner Laminate Hook-on Shelves

## Tools Required

- Plastic mallet
- Phillips head screwdriver

1. Determine the location of the **Corner Laminate Hook-on Shelf**. Position the **Shelf Supports** as shown in **Figure 1**. Insert the hooks on the back of the supports into the slotted standards and push down.

## Note

Ensure that the left hand and right hand supports are installed as shown.

To assure the hooks are seated, tap the top rear corner of the supports with a plastic mallet or equivalent.

2. Install the **Rear Supports**. Ensure that they are located at the same height as the right hand and left hand supports. See **Figure 1**.
3. With two people, lift and place the shelf on the shelf supports.

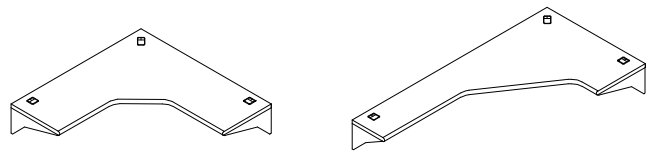
## Note

It will be necessary to lift the shelf at an angle to clear the uprights.

4. Fasten the shelf to the left hand and right hand supports using the four #10AB x 5/8" long screws provided. See **Figure 2**.

## Maximum Shelf Loading

The maximum shelf loading is 300 lbs regardless of size.



Corner Laminate Shelves

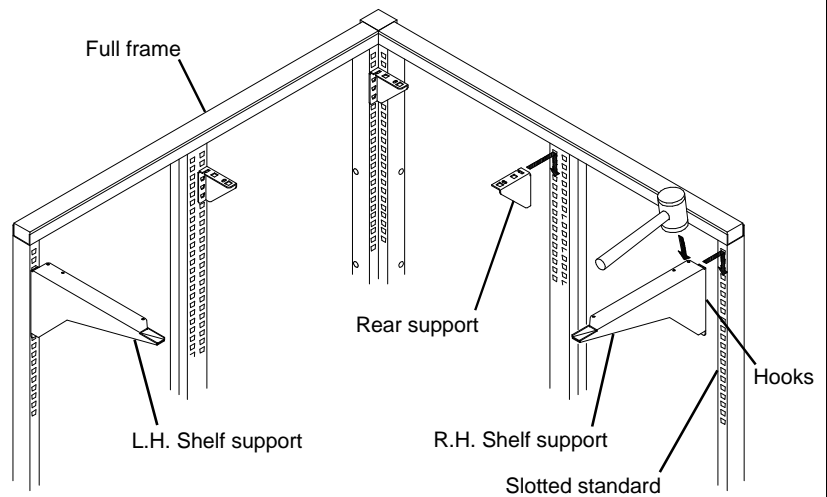


Figure 1

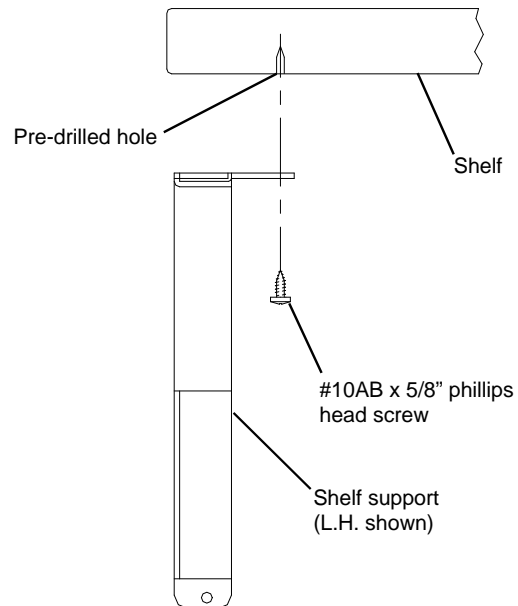
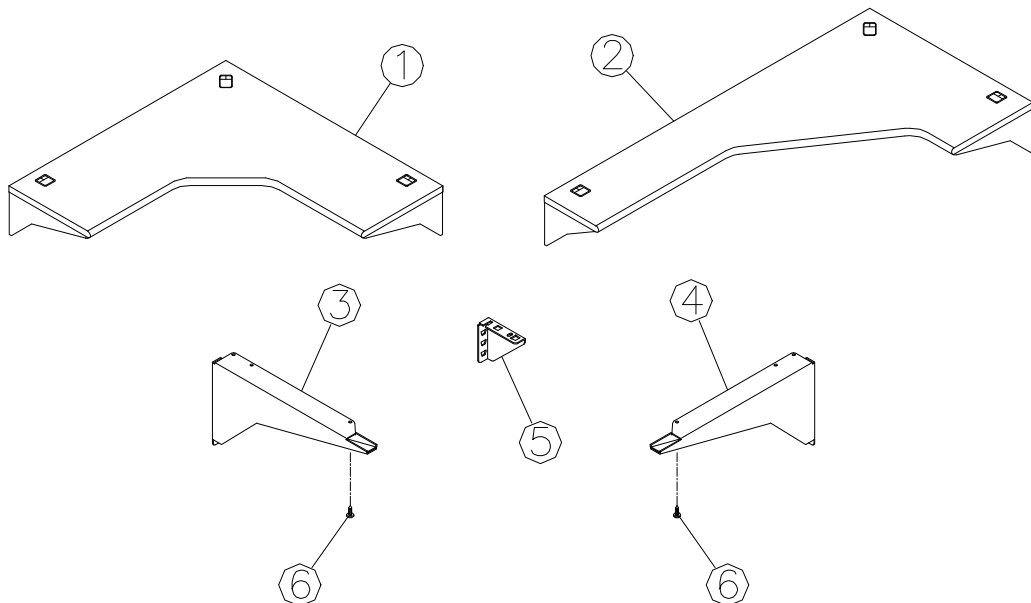


Figure 2

# Corner Laminate Hook-on Shelves (cont.)

## Parts List

| Part Number | Description  | Qty. |
|-------------|--|------|
| <b>1</b>    | 4028X Corner Upper Shelf, 36"x 36" (18" Sides), "L"      | 1    |
|             | 3015X Corner Upper Shelf, 48"x 48" (12" Sides)           |      |
|             | 3014X Corner Upper Shelf, 48"x 48" (18" Sides), "L"      |      |
|             | 3013X Corner Upper Shelf, 48"x 48" (18" Sides)           |      |
|             | 3012X Corner Upper Shelf, 48"x 48" (24" Sides), "L"      |      |
|             | 4040X Corner Upper Shelf, 36"x 36" (18" Sides), "L", ESD |      |
|             | 3835X Corner Upper Shelf, 48"x 48" (12" Sides), ESD      |      |
|             | 3836X Corner Upper Shelf, 48"x 48" (18" Sides), "L", ESD |      |
|             | 3837X Corner Upper Shelf, 48"x 48" (18" Sides), ESD      |      |
|             | 3838X Corner Upper Shelf, 48"x 48" (24" Sides), "L", ESD |      |
| <b>2</b>    | 3839X Integrated Upper Shelf, 36"x 72", L.H. ESD         | 1    |
|             | 3840X Integrated Upper Shelf, 72"x 36", R.H. ESD         |      |
|             | 3020X Integrated Upper Shelf, 36"x 72", L.H.             |      |
|             | 3021X Integrated Upper Shelf, 72"x 36", R.H.             |      |
| <b>3</b>    | 8154X 8" x 17" Shelf Support - L.H.                      | 1    |
| <b>4</b>    | 8155X 8" x 17" Shelf Support - R.H.                      | 1    |
| <b>5</b>    | 3125X Rear Support                                       | 3    |
| <b>6</b>    | 82287 #10AB x 5/8" Phillips Pan Head Screw               | 4    |



# Basic Plus Corner Laminate Shelf

## Tools Required

- Plastic mallet
- Phillips head screwdriver

1. Determine the location of the **Corner Laminate Hook-on Shelf Supports** as shown in **Figure 1**. Insert the hooks on the back of the supports into the slotted standards and push down.

## Note

Ensure that the left hand and right hand supports are installed as shown.

To assure the hooks are seated, tap the top rear corner of the supports with a plastic mallet or equivalent.

2. Install the **Rear Support**. Ensure that it is located at the same height as the right hand and left hand supports. See **Figure 1**.
3. With two people, lift and place the shelf on the shelf supports.

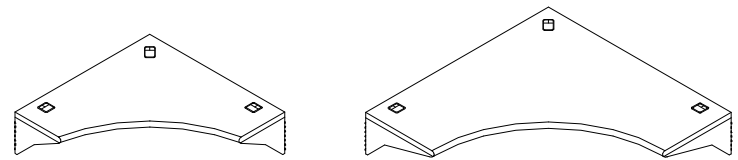
## Note

It will be necessary to lift the shelf at an angle to clear the uprights.

4. Fasten the shelf to the left hand and right hand supports using the four #10AB x 5/8" long screws provided. See **Figure 2**.

## Maximum Shelf Loading

The maximum shelf loading is 300 lbs regardless of size.



Corner Laminate Shelves

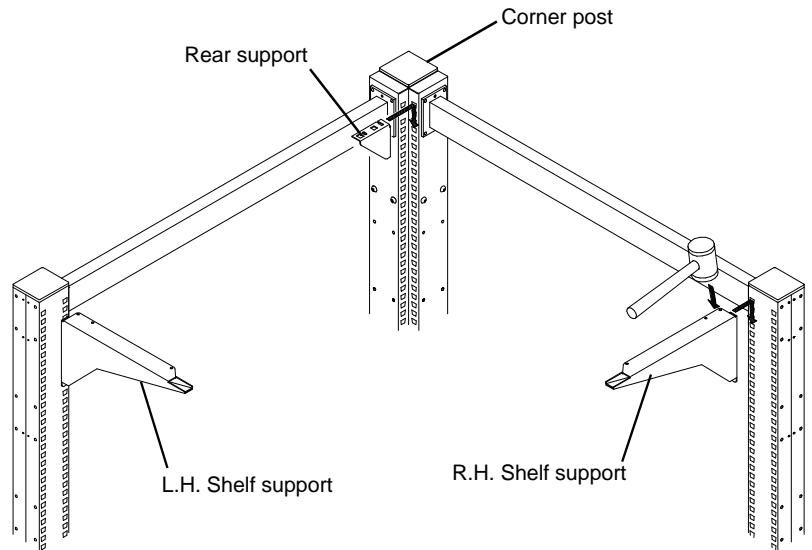


Figure 1

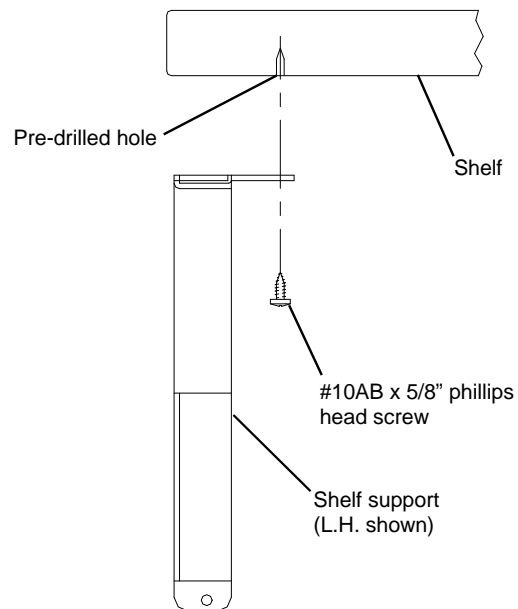


Figure 2

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# Basic Plus Corner Laminate Shelf ( c o n t . )

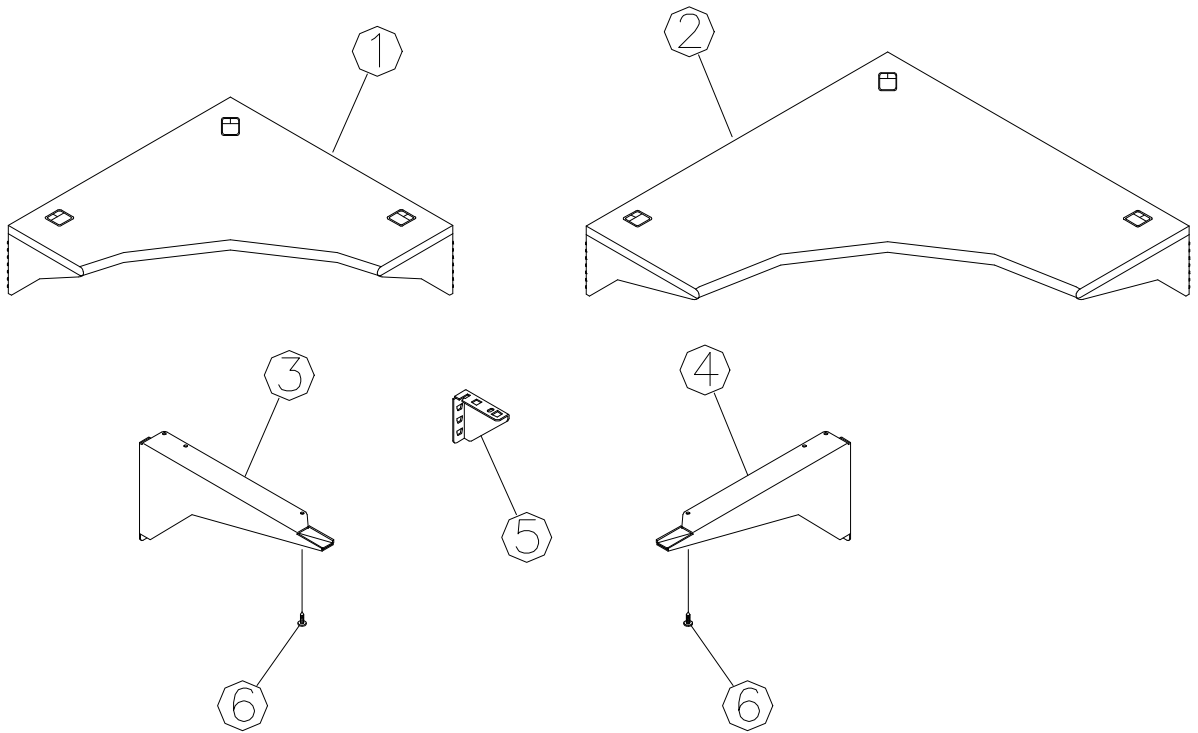
## Parts List

| Part Number  | Description   | Qty. |
|--|---|------|
| <b>1</b>   | 6181X 48"x 48" Corner Shelf (12" Sides)             | 1    |
|  | 6173X 48"x 60" Corner Shelf (12" Sides), L.H.       |      |
|  | 6175X 48"x 60" Corner Shelf (12" Sides), R.H.       |      |
|  | 6165X 48"x 72" Corner Shelf (12" Sides), L.H.       |      |
|  | 6167X 48"x 60" Corner Shelf (12" Sides), R.H.       |      |
|  | 6157X 36"x 72" Corner Shelf (12" Sides), L.H.       |      |
|  | 6159X 36"x 72" Corner Shelf (12" Sides), R.H.       |      |
|  | 6182X 48"x 48" Corner Shelf (12" Sides), ESD        |      |
|  | 6174X 48"x 60" Corner Shelf (12" Sides), L.H., ESD  |      |
|  | 6176X 48"x 60" Corner Shelf (12" Sides), R.H., ESD. |      |
|  | 6166X 48"x 72" Corner Shelf (12" Sides), L.H., ESD  |      |
|  | 6168X 48"x 72" Corner Shelf (12" Sides), R.H., ESD  |      |
|  | 6158X 36"x 72" Corner Shelf (12" Sides), L.H., ESD  |      |
|  | 6160X 36"x 72" Corner Shelf (12" Sides), R.H., ESD  |      |
|  | 7391X 30"x 30" Upper Shelf (12" Sides), ESD         |      |
| <b>2</b>   | 6183X 48"x 48" Corner Shelf (18" Sides)             | 1    |
|  | 6177X 48"x 60" Corner Shelf (18" Sides), L.H.       |      |
|  | 6179X 48"x 60" Corner Shelf (18" Sides), R.H.       |      |
|  | 6169X 48"x 72" Corner Shelf (18" Sides), L.H.       |      |
|  | 6171X 48"x 72" Corner Shelf (18" Sides), R.H.       |      |
|  | 6161X 36"x 72" Corner Shelf (18" Sides), L.H.       |      |
|  | 6163X 36"x 72" Corner Shelf (18" Sides), R.H.       |      |
|  | 6184X 48"x 48" Corner Shelf (18" Sides), ESD        |      |
|  | 6178X 48"x 60" Corner Shelf (18" Sides), L.H., ESD  |      |
|  | 6180X 48"x 60" Corner Shelf (18" Sides), R.H., ESD  |      |
|  | 6170X 48"x 72" Corner Shelf (18" Sides), L.H., ESD  |      |
|  | 6172X 48"x 72" Corner Shelf (18" Sides), R.H., ESD  |      |
|  | 6162X 36"x 72" Corner Shelf (18" Sides), L.H., ESD  |      |
| 6164X 36"x 72" Corner Shelf (18" Sides), R.H., ESD |   |      |
| 7390X 30"x 30" Upper Shelf (18" Sides), ESD        |   |      |

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# Basic Plus Corner Laminate Shelf (cont.)

| Parts List  |       |                                      |      |
|-------------|-------|--------------------------------------|------|
| Part Number |       | Description                          | Qty. |
| 3           | 8156X | 8"x 11" Shelf Support - L.H.         | 1    |
|             | 8154X | 8"x 17" Shelf Support - L.H.         |      |
| 4           | 8157X | 8"x 11" Shelf Support - R.H.         | 1    |
|             | 8155X | 8"x 17" Shelf Support - R.H.         |      |
| 5           | 3125X | Rear Support                         | 3    |
| 6           | 82287 | #10AB x 5/8" Phillips Pan Head Screw | 4    |



**Tools Required**

- Phillips head screwdriver
- 5/32" Allen wrench (provided)
- Plastic mallet

**NOTE:**

Two people are required for the assembly of the larger 61"(1549mm), 72"(1829mm) and 84" high (2134mm) **Rack Mount Modules**.

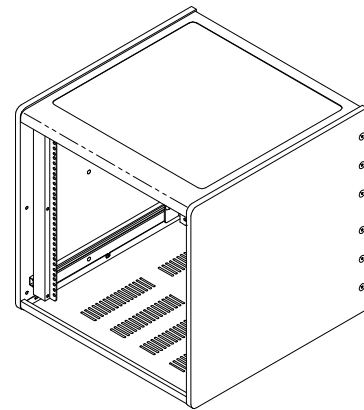
The **Side Panels** are pre-assembled at the factory with the Front Rails in the forward position. See **Figure 1**.

The **Front Rails** can be repositioned 6"(152mm) back from the front position if your hardware installation requires additional clearance behind an optional Plexiglass Door.

The position of the **Rear Rails** can be adjusted by loosening the 1/4"-20 Button head cap screws using the 5/32" Allen wrench (provided). Reposition the Rear Rails as required by sliding them along the Horizontal Rails. Re-tighten the 1/4" Button head cap screws to secure the Rear Rails in place.

The Rear Rails can be adjusted over a range of 6.76"(172mm) to 20.40"(518mm). See **Figure 2**.

After you have made any necessary rail location adjustments and determined the desired installation location of the Rack Mount Module on the Frame assembly, proceed as follows.



Rack Mount Module

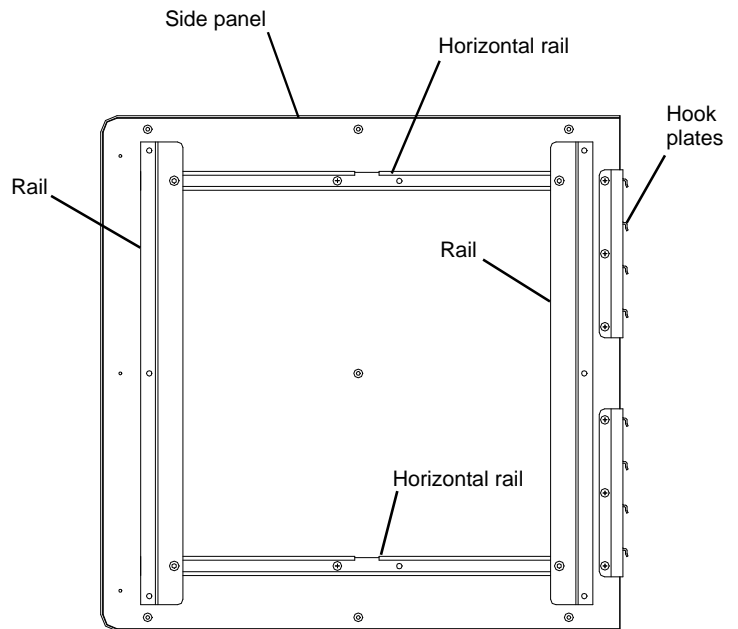


Figure 1  
Side View of Side Panel

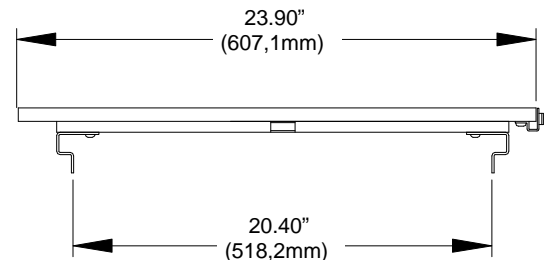


Figure 2  
Top view of Side Panel



## INSTALLING THE SIDE PANELS

1. Position the Side Panel in the desired location . Insert the hooks in the Side Panel into the Slotted Standard and push down. To assure the hooks are seated, tap the rear corner with a plastic mallet or equivalent. See **Figure 3**.

### NOTE:

If you are installing a Side Panel with three or more Hook Plates, it may be necessary to loosen the three 1/4"-20 screws securing the Hook Plates to the Side Panel. This will allow the Hook Plates to be adjusted in or out to engage the slots. **Re-tighten the Hook Plates securely after the Side Panel is installed.**

2. Install the opposite Side Panel. Make certain that both Side Panels are at the same level and firmly seated in the Slotted Standards.
3. Install six #10-24 x 1/2" Phillips head machine screws in each Side Panel. Install 3 screws at the top and 3 screws at the bottom of each panel. Leave approximately 1/8"(3mm) of thread exposed. See **Figure 3**.

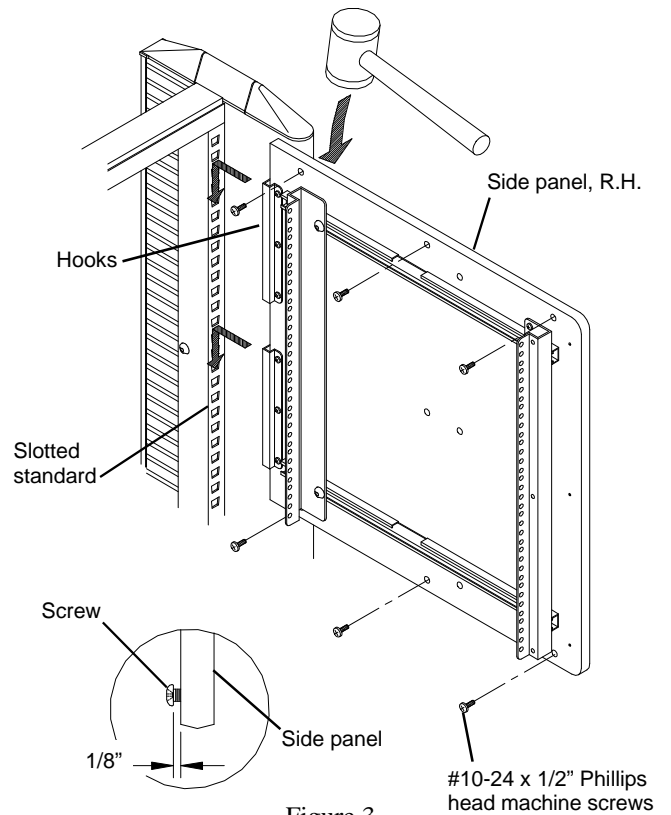


Figure 3

## INSTALLING THE TOP/BOTTOM PANEL

19" Rack Mount Modules have two **Perforated Top Panels** with the 10" and 17" high units. They have one **Cable Access Bottom** and one Perforated Top Panel with heights 24" through 84". 24" Rack Mount Modules have one of each with all heights, 38" through 84".

Top/Bottom Panels are interchangeable. If the cables are to enter the Rack Modules from above or through the floor, use the Cable Access Panel accordingly. If the cables enter through the back, install the Cable Access Panel at the bottom. They can be changed at any time without dismantling the Rack Mount Module. See **Figure 4**.

**NOTE:** An optional **Fan Mount Top Panel** is available. See page O-5 .

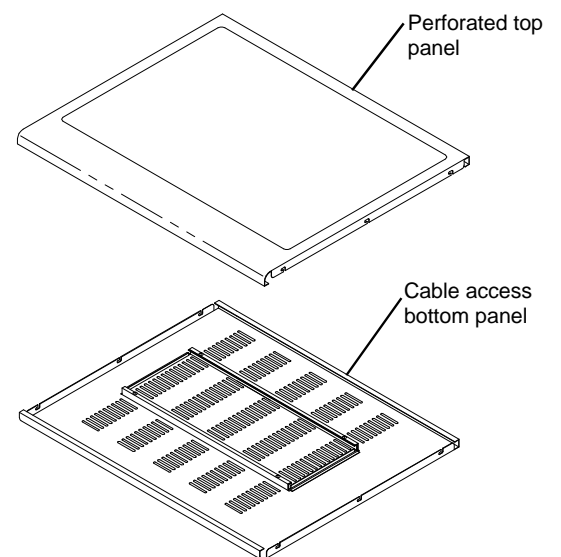


Figure 4  
Top/Bottom panels

# Rack Mount Module ( c o n t . )

4. For larger amounts of cable, remove the 8" x 20" **Center** (four screws). Taped to the Top/Bottom panel are two **20" Edge Protectors**. Put them on the now exposed edges. Store the 8" x 20" Center at the bottom of the module. See **Figure 5**.

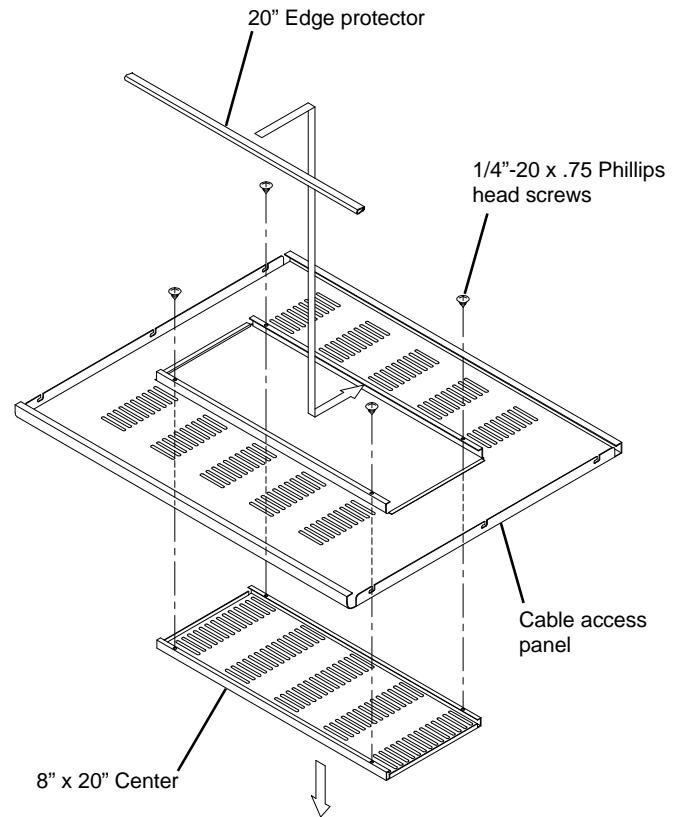


Figure 5

6. Install the Top onto the Side Panels by carefully positioning it over the three screws on each Side Panel. See **Figure 6**. Slide it back until the screws bottom out in the horizontal slots. See **Figure 6**. Tighten the screws securely.

Repeat this procedure to install the Bottom onto the Side Panels. **NOTE:** The Top/Bottom Panel reverses at the bottom position (upside down). See **Figure 5**.

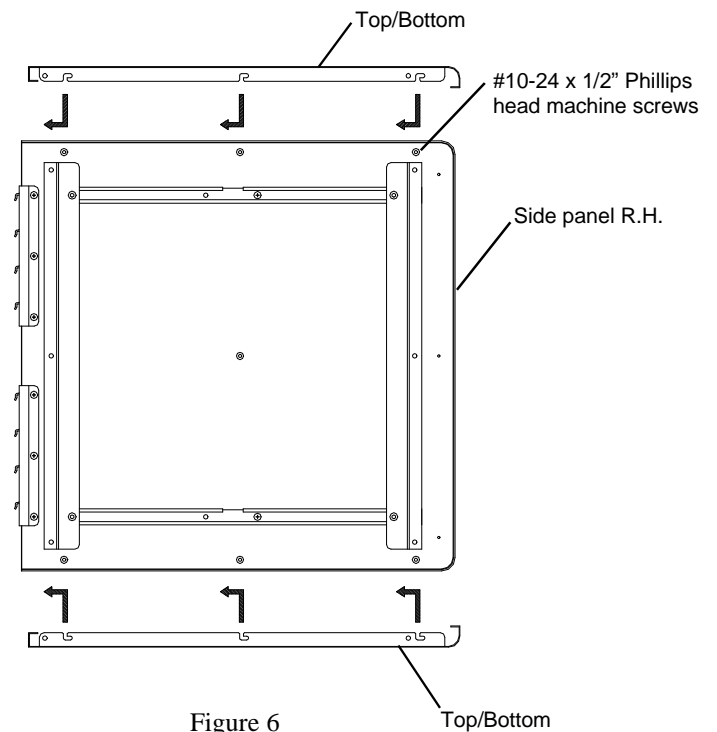


Figure 6

7. **#10-32 Clip Nuts** and **#10-32 x 1/2" Phillips head machine screws** are included to allow easy installation of electronic equipment.

Install the Clip Nuts in the desired location (based on the electronic equipment being used) on the front and rear rails. See **Figure 7**.

Follow the instructions provided with the electronic equipment for specific equipment installation instructions.

If additional Clip Nuts are required, order the LB71-00 Clip Nut hardware kit.

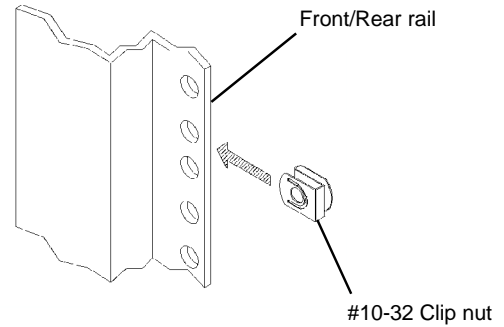


Figure 7

| RACK MOUNT MODULE PANEL SPACE AND MAXIMUM LOADING |                       |                |                 |
|---|-----------------------|----------------|-----------------|
| Item No.  | Description           | Panel Space    | Maximum Loading |
| LB55-XX   | 10" Rack Mount Module | 7.14"(181mm)   | 150#(68kg)      |
| LB57-XX   | 17" Rack Mount Module | 14.14"(359mm)  | 300#(136kg)     |
| LB59-XX   | 24" Rack Mount Module | 21.14"(537mm)  | 300#(136kg)     |
| LB61-XX   | 38" Rack Mount Module | 35.14"(893mm)  | 400#(182kg)     |
| LB63-XX   | 61" Rack Mount Module | 56.14"(1426mm) | 600#(273kg)     |
| LB65-XX   | 72" Rack Mount Module | 66.64"(1693mm) | 800#(364kg)     |
| LB67-XX   | 84" Rack Mount Module | 78.90"(2004mm) | 800#(364kg)     |

## ASSEMBLING THE OPTIONAL EXHAUST FAN

Packaged with the Fan Kit is the required hardware for attachment.

**NOTE:** The Top Panels have two screw hole patterns. Those shipped through the first quarter of 1996 will have pattern "A". Those shipped after will have pattern "B". See **Figure 8**.

1. Place the Fan (side without guard) on the inside of the Top Panel and align it with the eight holes. Position the Fan so that the cord connection is toward the rear.
2. With the screw head on the outside, attach one screw and nut (finger tight) to opposite sides. Start the remaining six screws. Place the ground wire (green with terminal end) onto the nearest screw before the nut. Tighten all screws. See **Figure 8**.

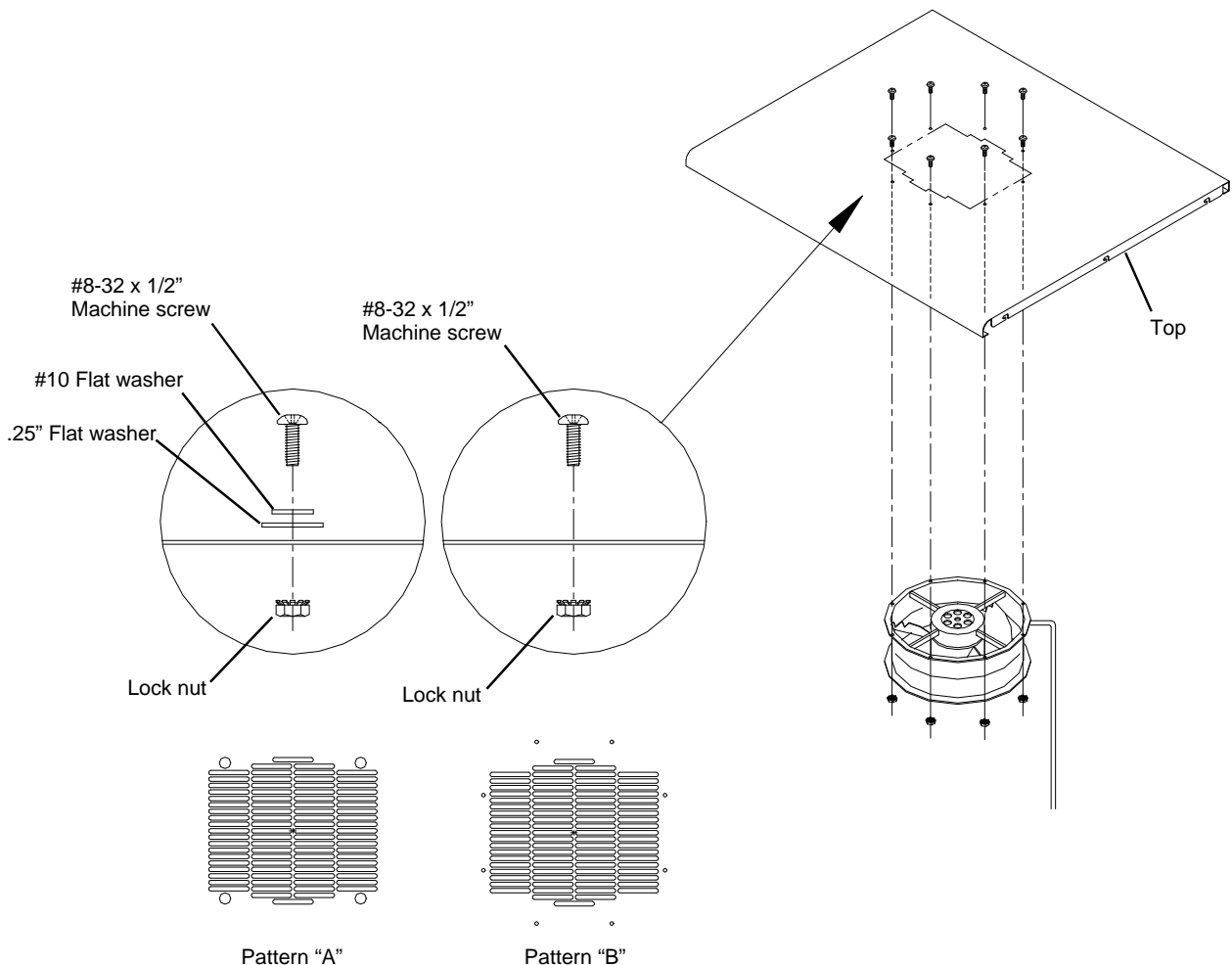


Figure 8

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# Rack Mount Module ( c o n t . )

| <b>Parts List</b> |          |   |  |
|-------------------|----------|---|--|
| Part Number       |          | Description   | Qty.   |
| <b>1</b>          | 2716X    | 10" End Panel, 19" Rack Mount Module                    | 2  |
|                   | 2717X    | 17" End Panel, 19" Rack Mount Module                    |  |
|                   | 2718X    | 24" End Panel, 19" Rack Mount Module                    |  |
|                   | 5198X    | 38" End Panel, 19" Rack Mount Module                    |  |
|                   | 3075X    | 59" End Panel, 19" Rack Mount Module                    |  |
|                   | 3077X    | 70" End Panel, 19" Rack Mount Module                    |  |
|                   | 3079X    | 82" End Panel, 19" Rack Mount Module                    |  |
|                   | <b>2</b> | 2768X   |  |
| 2769X             |          | 14.3" Rail, 19" Rack Mount Module                       |  |
| 2770X             |          | 21.3" Rail, 19" Rack Mount Module                       |  |
| 2732X             |          | 35.3" Rail, 19" Rack Mount Module                       |  |
| 2733X             |          | 56.3" Rail, 19" Rack Mount Module                       |  |
| 2734X             |          | 66.8" Rail, 19" Rack Mount Module                       |  |
| 2735X             |          | 79.05" Rail, 19" Rack Mount Module                      |  |
| <b>3</b>          | 55617    | #10-24 x 1/2" Phillips Pan Head Machine Screw           | 24-44  |
| <b>4</b>          | 6914X    | 20.8" Horizontal Rail                                   | 4-8  |
| <b>5</b>          | 68681    | 1/4"-20 x 3/8" Button Head Cap Screw                    | 4-8  |
| <b>6</b>          | 82088    | 1/4" Clamp Nut  | 4-8  |
| <b>7</b>          | 1708X    | Hook Plate, L.H. (used on LB57, LB61, LB63, LB65, LB67) | 1-4  |
|                   | 1709X    | Hook Plate, R.H. (used on LB57, LB61, LB63, LB65, LB67) | 1-4  |
|                   | 2408X    | Hook Plate, L.H. (used on LB55, LB59)                   | 1-2  |
|                   | 2409X    | Hook Plate, R.H. (used on LB55, LB59)                   | 1-2  |
|                   | <b>8</b> | 53956   | 1/4"-20 x .75" Phillips Pan Head Machine Screw |

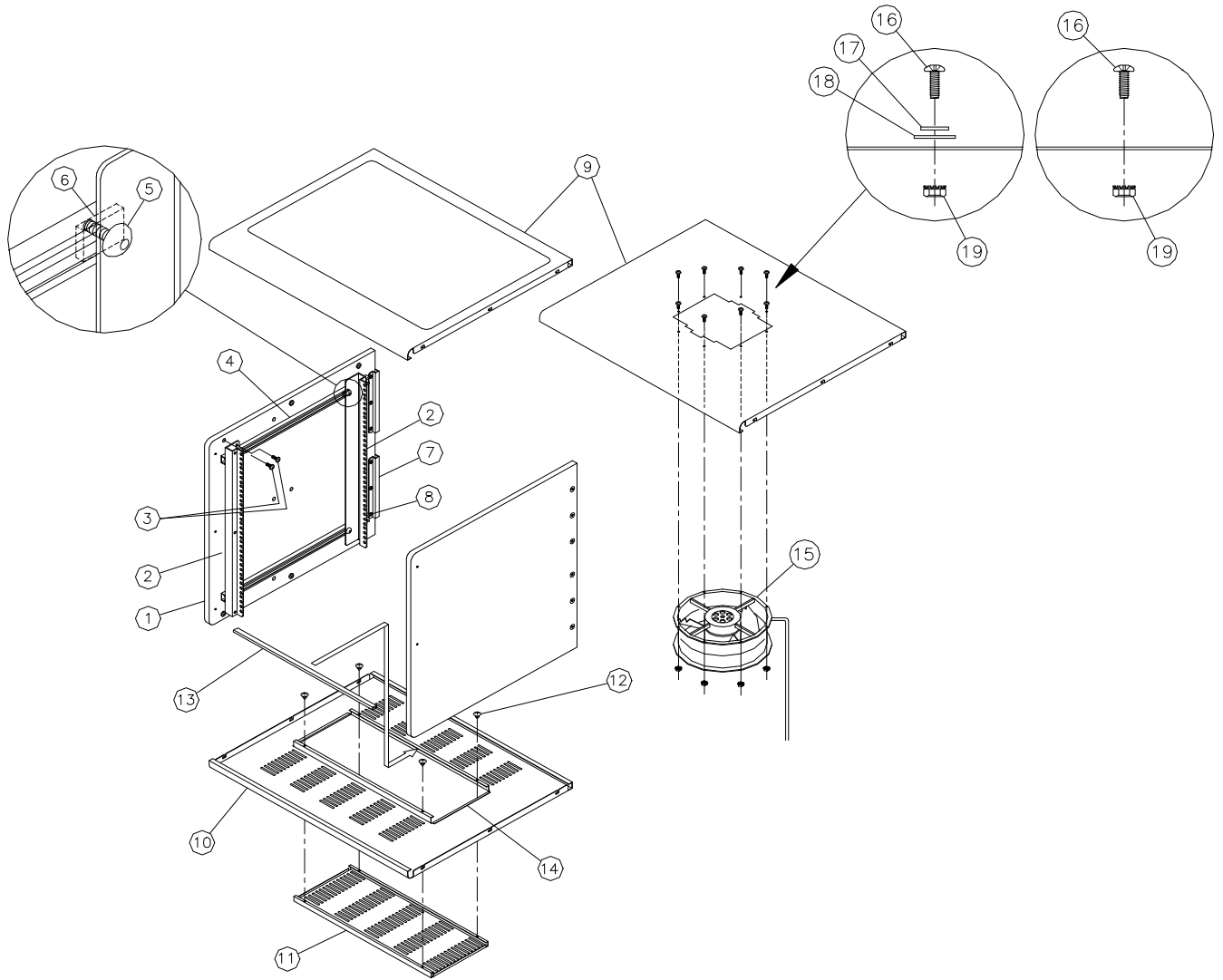
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# Rack Mount Module ( c o n t . )

| <b>Parts List</b> |       |   |      |
|-------------------|-------|---|------|
| Part Number       |       | Description                                 | Qty. |
| <b>9</b>          | 7846X | Perforated Top, 19" Rack Mount Module       | 1    |
|                   | 7750X | Top w/ Fan, 19" Rack Mount Module           |      |
| <b>10</b>         | 7848X | Bottom, Cable Access, 19" Rack Mount Module | 1    |
| <b>11</b>         | 7106X | 8" x 20" Center                             | 1    |
| <b>12</b>         | 66249 | #8AB x .38" Pan Head Thread Forming Screw   | 4    |
| <b>13</b>         | 82241 | Fabric Clip, 20" Long                       | 2    |
| <b>14</b>         | 83340 | Fabric Clip, 8.25" Long                     | 2    |
| <b>15</b>         | 84010 | Fan (optional)                              | 1    |
| <b>16</b>         | 83840 | #8-32 x 1/2" Machine Screws                 | 8    |
| <b>17</b>         | 54225 | #10 Flat Washer                             | 4    |
| <b>18</b>         | 18959 | .25" Flat Washer                            | 4    |
| <b>19</b>         | 18244 | #8-32 Hex Lock Nut                          | 8    |

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# Rack Mount Module ( c o n t . )



# Rack Mount Module Front Support (cont.)

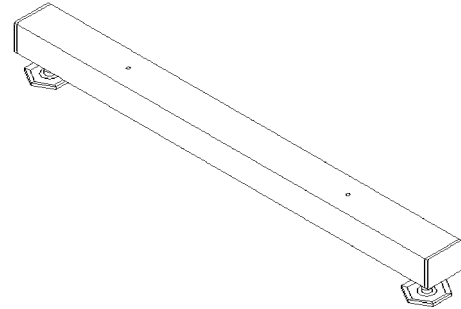
## INSTALLING THE FRONT SUPPORT

A **Front Support** is provided with all 84" Rack Mount Modules to support the front of the Side Panels when the unit is loaded with heavy components.

The Front Support should be installed after the unit has been leveled and the door has been installed.

1. Position the Front Support in front of the Rack Mount Module, centering it side to side, and slide it under the front of the Side Panels. See **Figure 1**.
2. Adjust the levelers on the Front Support as required. See **Figure 2**.

If the unit is loaded, it may be necessary to lift up the front of the Rack Mount Module.



Front Support

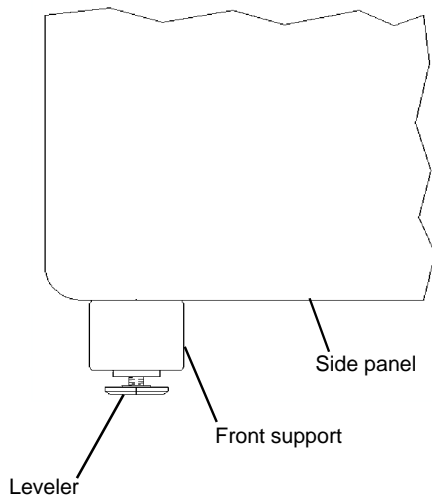


Figure 2

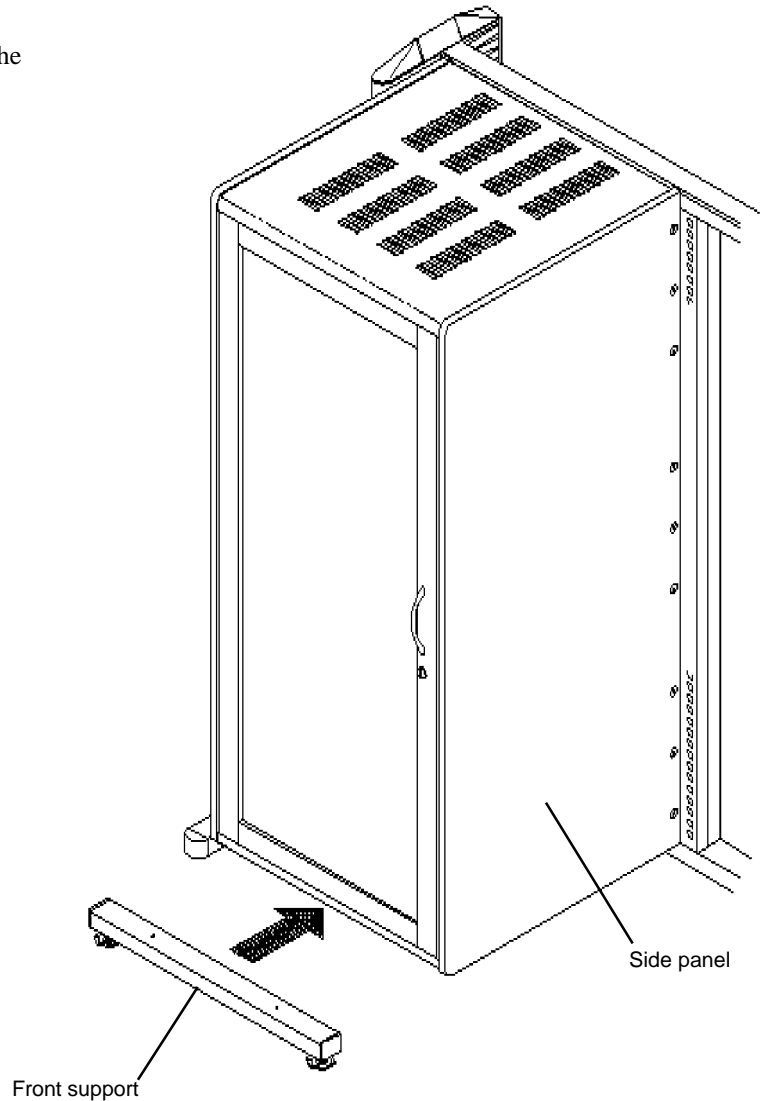


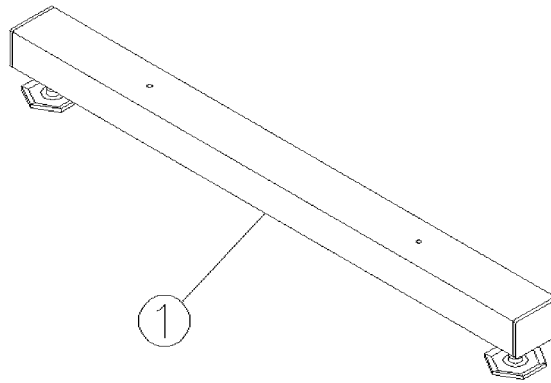
Figure 1



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# Rack Mount Module Front Support (cont.)

| Parts List  |       |                                  |      |
|-------------|-------|----------------------------------|------|
| Part Number |       | Description                      | Qty. |
| 1           | 7244X | Front Support, 24" Rack Module   | 1    |
|             | 3206X | Front Support, X-Deep LAN Locker |      |



# Rack Mount Module Plexiglass Door

## Tools Required

-Phillips head screwdriver

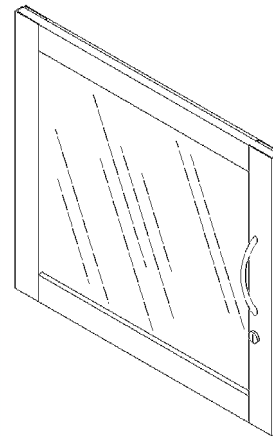
**NOTE:** Instructions show assembly of a Left Door Swing module.

The Rack Module must be installed and leveled on the Full Frame prior to installation of the **Plexiglass Door**.

Two people are required for the installation of the Door onto the Lan Locker II enclosure.

After installation, clean the Plexiglass door panel with water and mild detergent. Use a soft cloth and avoid abrasives and cleaning solvents.

1. Install the **Door Stop** onto the Right Hand Side Panel using the #8AB x .50 Phillips head screws. The Side Panel is pre-drilled to accept the screws. See **Figure 1**.



Rack Module Door

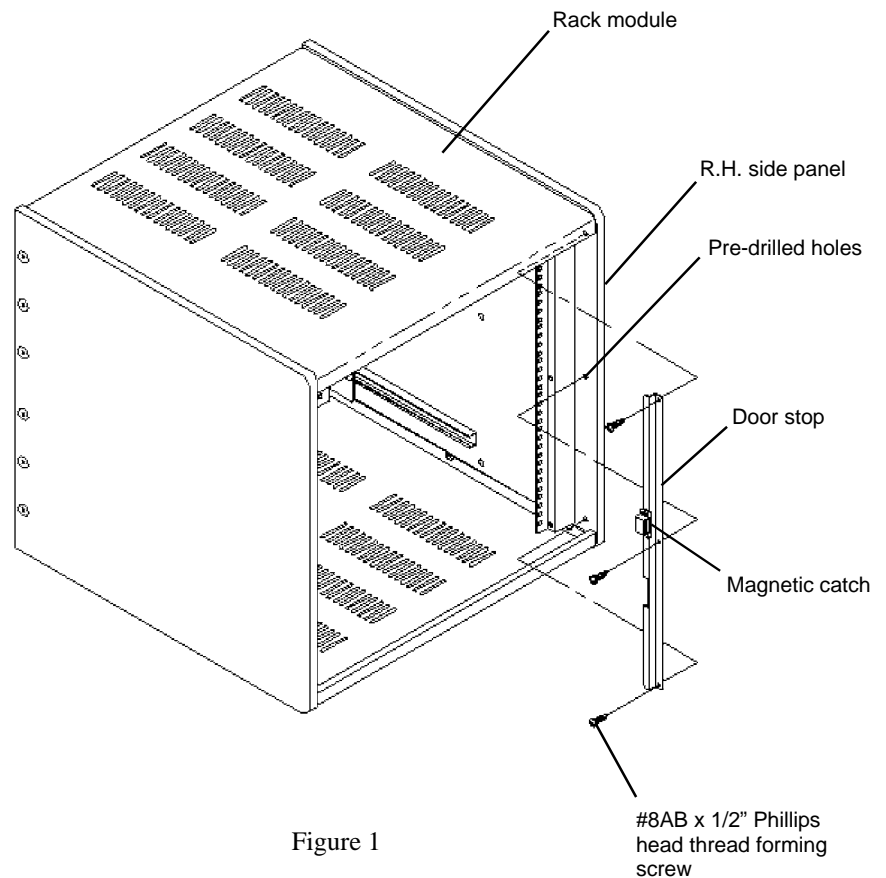


Figure 1

# Rack Mount Module Plexiglass Door (c o n t .)

2. With one person holding the Door, align the holes in the Hinge with the pre-drilled holes in Left Hand Side Panel. Fasten the door to the Side Panel using the #8 AB x .50 Phillips head screws. See **Figure 2**.

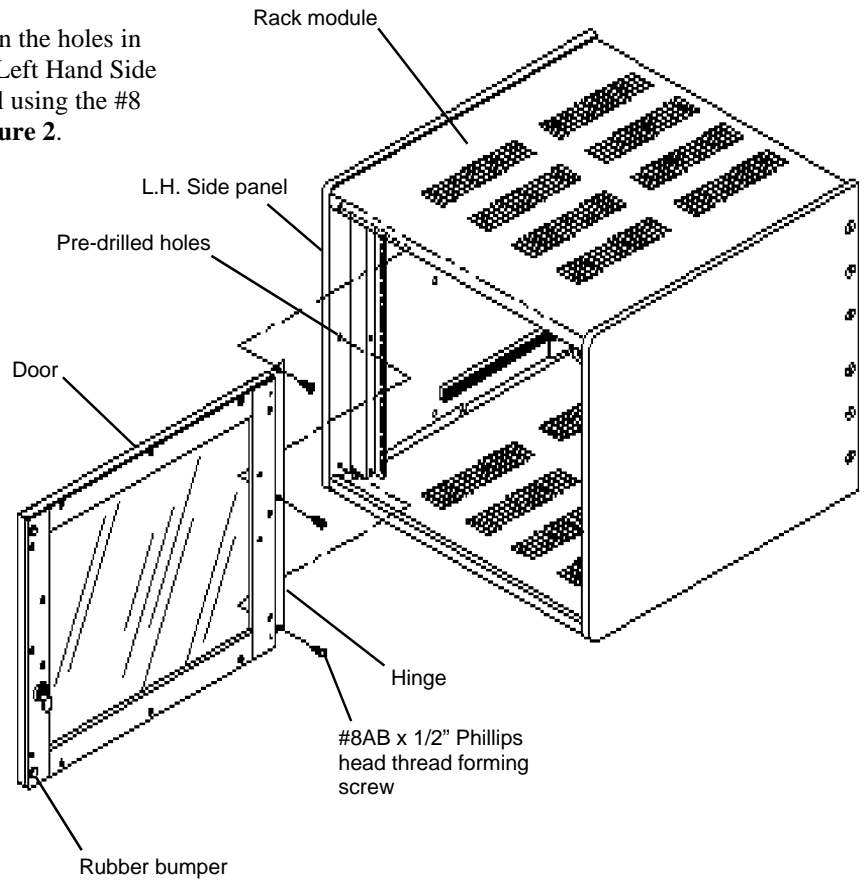


Figure 2

3. If necessary, adjust the **Magnetic Catch(s)** (which are mounted on the Door Stop) so that it contacts the Door with the Rubber bumpers on the Door.

**NOTE:** The 56", 66", and 79" high doors are each provided with three catches to provide additional door retention.

If the retention is found to be too great, one or more of the catches can be moved away from the door face or removed.

The Magnetic Catch(s) can be moved in or out by loosening the two #4-40 Machine screws. Re-position the Catch(s) to the desired location and tighten the screws securely. See **Figure 3**.

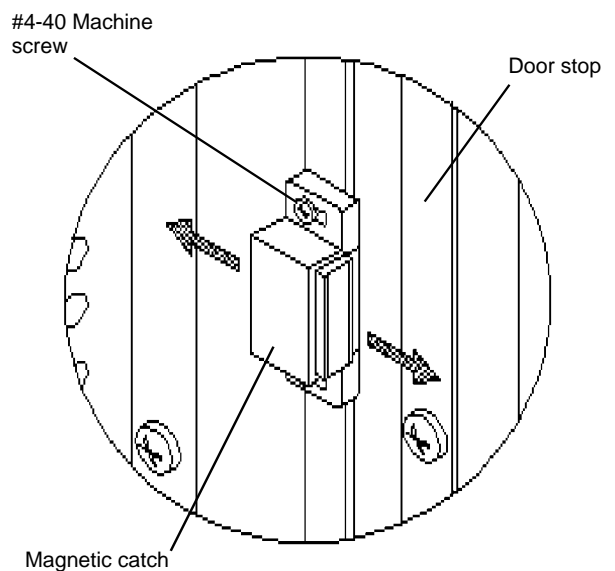


Figure 3

# Rack Mount Module Plexiglass Door (cont.)

## DOOR ALIGNMENT ADJUSTMENT IF NECESSARY

If the Door is mis-aligned within the Lan Locker II enclosure with an uneven space between the Door and the Top and Bottom as shown in **Figure 4**, one or more of the following adjustments must be made.

- A. Check the Full Frame and the Lan Locker II enclosure to ensure that they are level. Adjust as required.
- B. Ensure that both Side Panels are fully seated in the slotted standards. Use a plastic mallet to tap the Side Panels downward.
- C. If one Side Panel remains higher than the other, loosen all of the 1/4"-20 x .75" Phillips head machine screws which fasten the hook plates to the Side Panels. See **Figure 5**.

Tap the top of the Side Panel with a plastic mallet to adjust it and then re-tighten the 1/4"-20 screws. Adjust the opposite Side Panel in the same manner if necessary.

- D. The Door can be adjusted up or down within the Lan Locker II enclosure by loosening the #8AB x .50" Phillips head screws. See **Figure 5**. Re-tighten the screws after adjusting the door.

1. Remove the protective liner paper from both sides of the Plexiglass door panel.

If static build-up causes a problem with the attraction of dust particles, it is recommended that the following or similar anti-static cleaner and polisher be used. Wright Line recommends:

**KLEENMASTER BRILLIANIZE**  
Chemical Products Co. Inc.  
Omaha, Nebraska

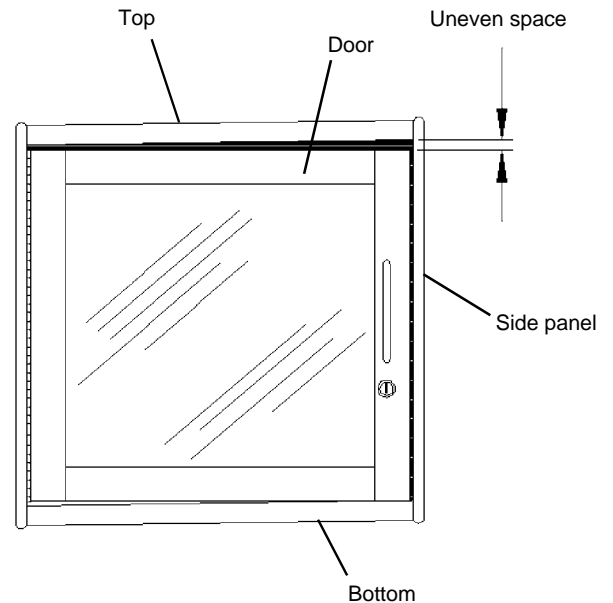


Figure 4

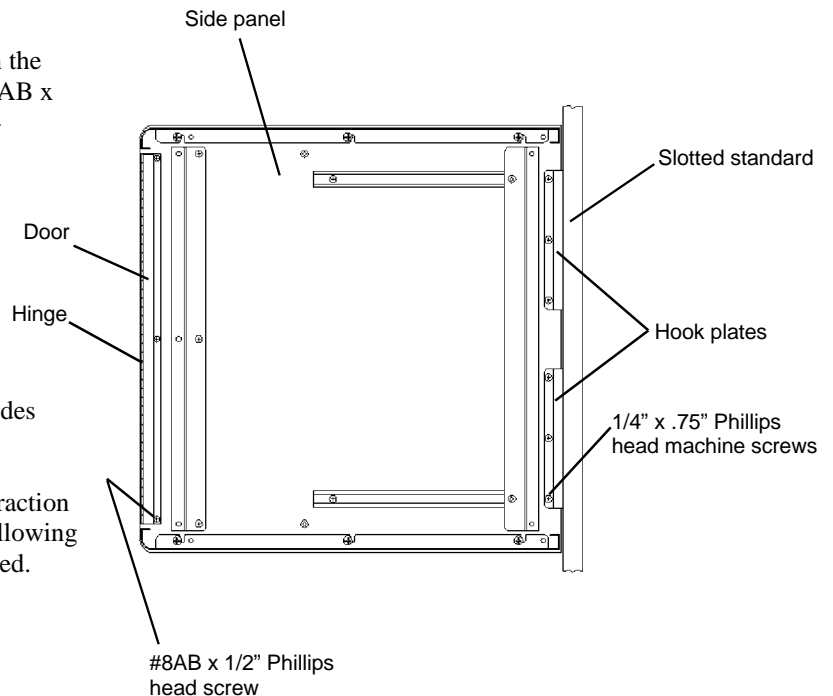


Figure 5

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# Rack Mount Module Plexiglass Door (cont.)

| <b>Parts List</b>  |  |      |
|--|--|------|
| Part Number<br>(L. Hinge/R. Hinge)                                     | Description  | Qty. |
| <b>1</b>   | 2774X/- - - - - 7" Door Weldment, 19" Rack Mount Module                | 1    |
|  | 2751X/- - - - - 14" Door Weldment, 19" Rack Mount Module               |      |
|  | 2752X/3684X 21" Door Weldment, 19" Rack Mount Module                   |      |
|  | 2753X/3685X 35" Door Weldment, 19" Rack Mount Module                   |      |
|  | 2754X/3686X 56" Door Weldment, 19" Rack Mount Module                   |      |
|  | 2755X/3687X 66" Door Weldment, 19" Rack Mount Module                   |      |
|  | 2756X/3688X 79" Door Weldment, 19" Rack Mount Module                   |      |
| <b>2</b>   | 82104 5.10" x 20.50" Acrylic Panel, Dark Tint Bronze                   | 1    |
|  | 82062 12.10" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82063 19.10" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82064 33.10" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82065 54.10" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82066 64.60" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82067 76.86" x 20.50" Acrylic Panel, Dark Tint Bronze                  |      |
|  | 82257 5.10" x 20.50" Acrylic Panel, Light Tint Bronze                  |      |
|  | 82258 12.10" x 20.50" Acrylic Panel, Light Tint Bronze                 |      |
|  | 82259 19.10" x 20.50" Acrylic Panel, Light Tint Bronze                 |      |
|  | 82260 33.10" x 20.50" Acrylic Panel, Light Tint Bronze                 |      |
|  | 82261 54.10 x 20.50" Acrylic Panel, Light Tint Bronze                  |      |
|  | 82262 64.60" x 20.50" Acrylic Panel, Light Tint Bronze                 |      |
|  | 82263 76.86" x 20.50" Acrylic Panel, Light Tint Bronze                 |      |
|  | 86731 5.12" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door  |      |
|  | 86727 12.12" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door |      |
|  | 86723 19.12" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door |      |
| 86719 33.12" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door |  |      |
| 86715 54.12" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door |  |      |
| 86711 64.62" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door |  |      |

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# Rack Mount Module Plexiglass Door (cont.)

## Parts List

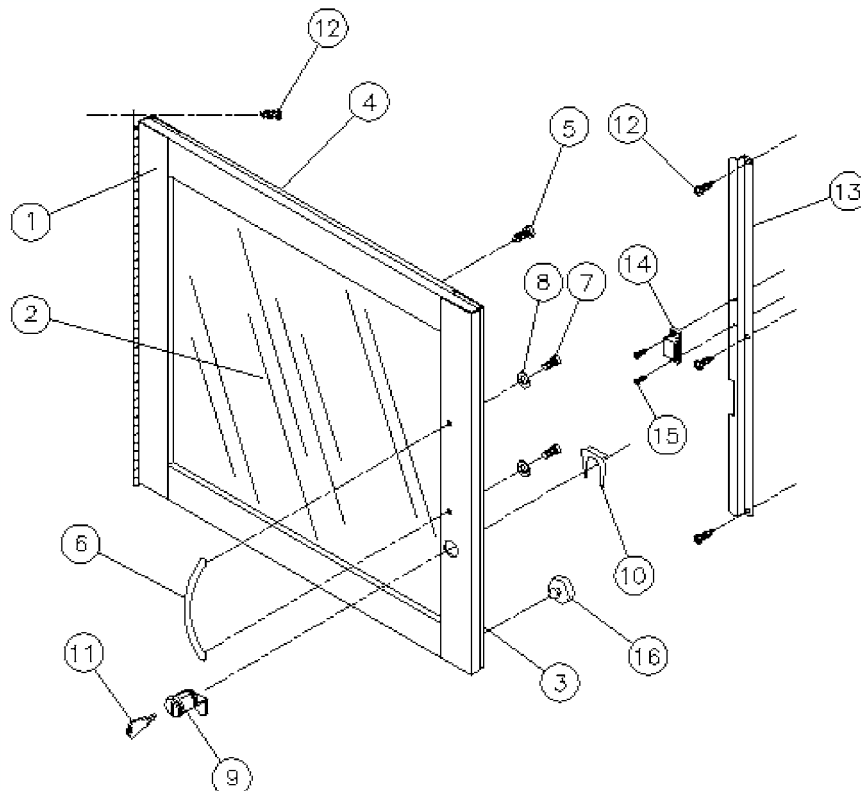
| Part Number<br>(L. Hinge/R. Hinge) |                   | Description   | Qty.                   |   |
|------------------------------------|-------------------|---|------------------------|---|
| 2                                  | 86707             | 76.88" x 14.32" Acrylic Panel, Dark Tint Bronze, Ventilated Door  | 1                      |   |
|                                    | 86729             | 5.12" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door  |                        |   |
|                                    | 86725             | 12.12" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
|                                    | 86721             | 19.12" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
|                                    | 86717             | 33.12" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
|                                    | 86713             | 54.12" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
|                                    | 86709             | 64.62" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
|                                    | 86719             | 76.88" x 14.32" Acrylic Panel, Light Tint Bronze, Ventilated Door |                        |   |
| 82178 L. Hinge                     | ~                 | 7" Rear Vertical Trim   |                        |   |
| 2757X L. Hinge                     | ~                 | 14" Rear Vertical Trim  |                        |   |
| 2758X L. Hinge                     | 3678X R. Hinge    | 21" Rear Vertical Trim  |                        |   |
| 2759X L. Hinge                     | 3677X R. Hinge    | 35" Rear Vertical Trim  |                        |   |
| 2760X L. Hinge                     | 3676X R. Hinge    | 56" Rear Vertical Trim  |                        |   |
| 2761X L. Hinge                     | 3675X R. Hinge    | 66" Rear Vertical Trim  |                        |   |
| 3                                  | 2762X L. Hinge    | 3674X R. Hinge  | 79" Rear Vertical Trim | 2 |
|                                    | 7801X L. Hinge    | ~   | 7" Rear Vertical Trim  |   |
|                                    | 7800X L. Hinge    | ~   | 14" Rear Vertical Trim |   |
|                                    | 7799X L./R. Hinge | 21" Rear Vertical Trim  |                        |   |
|                                    | 7798X L./R. Hinge | 35" Rear Vertical Trim  |                        |   |
|                                    | 7797X L./R. Hinge | 56" Rear Vertical Trim  |                        |   |
|                                    | 7796X L./R. Hinge | 66" Rear Vertical Trim  |                        |   |
|                                    | 7795X L./R. Hinge | 79" Rear Vertical Trim  |                        |   |
| 4                                  | 2763X             | Rear Horizontal Trim  | 2                      |   |
|                                    | 7372X             | Rear Horizontal Trim, Ventilated Door                             |                        |   |
| 5                                  | 68374             | #8AB x .50 Phillips Head Thread Forming Screw                     | 10-18                  |   |
| 6                                  | 81911             | Handle (Except on 7" Door, use Handle #82177)                     | 1                      |   |
| 7                                  | 82061             | 4mm x 25mm Phillips Head Screw                                    | 2                      |   |
| 8                                  | 18977             | Lock Washer   | 2                      |   |

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# Rack Mount Module Plexiglass Door (c o n t .)

## Parts List

| Part Number<br>(L. Hinge/R. Hinge) |                | Description                                 | Qty.          |   |
|------------------------------------|----------------|---|---------------|---|
| <b>9</b>                           | 82069          | Lock Assembly                               | 1             |   |
| <b>10</b>                          | 60297          | #3 Spring Clip, Lock                        | 1             |   |
| <b>11</b>                          | 80805          | #150000 Keys                                | 2             |   |
| <b>12</b>                          | 68374          | #8AB x .50 Phillips Pan Head Screw          | 6-14          |   |
|                                    | 2778X L. Hinge | ~   | 7" Door Stop  |   |
|                                    | 2779X L. Hinge | ~   | 14" Door Stop |   |
|                                    | 2780X L. Hinge | 3672X R. Hinge                              | 21" Door Stop |   |
| <b>13</b>                          | 2781X L. Hinge | 3671X R. Hinge                              | 35" Door Stop | 1 |
|                                    | 2782X L. Hinge | 3670X R. Hinge                              | 56" Door Stop |   |
|                                    | 2783X L. Hinge | 3669X R. Hinge                              | 66" Door Stop |   |
|                                    | 2784X L. Hinge | 3668X R. Hinge                              | 79" Door Stop |   |
| <b>14</b>                          | 82118          | Magnetic Catch                              | 1             |   |
| <b>15</b>                          | 82119          | #4-40 x .37 Phillips Pan Head Machine Screw | 2             |   |
| <b>16</b>                          | 21034          | Rubber Bumper                               | 2             |   |



**NOTE:** **Rear Service Doors** are available in five heights (24", 38", 61", 72", and 84") and in the two Full Frame Module widths (24" and 30"). The Doors are designed to attach to the rear of the "Full Frame". All Doors have left hand mounted "lift-off" hinges which allow the removal of the Door Panel for total service access. The Frame of the Rear Service Door has openings for the passage of cables into the Full Frame Cable Management channels or into an adjacent Rear Service Door.

**Tools Required:**

- Plastic mallet
- Phillips head screwdriver

**DOOR INSTALLATION**

1. Carefully remove the LAN Locker Rear Service Door assembly from its packaging. Lay the assembly face down on a protective surface.

For shipping purposes, the **Door Panel** is secured to the **Door Frame** with two #10 Phillips head screws. The screws are located on the Latch side of the Door, one near the top and one near the bottom. Remove and discard the two screws. See **Figure 1**.

2. For the three tallest Rear Service Doors (84", 72", and 61" high) it is recommended that the Door Panel be removed from the Frame before further assembly. This will reduce the total weight of the unit and make it easier to assemble to the Full Frame Slotted Uprights. The Door Panel may be left attached to the smaller 34" and 24" high units.

To remove the Door Panel, first carefully turn the entire Door assembly over so that it lays on its back. Depress the **Latch** release button and open the Door approximately 90 degrees. To disengage the Door hinges, carefully slide the Door towards the top of the Frame. The hinges will slip apart so that the Door may be set aside. See **Figure 2**.

3. The three tallest Rear Service Doors, 84", 72", and 61" are designed to attach to corresponding Full Frame heights and will cover the entire height of the Frame when installed.

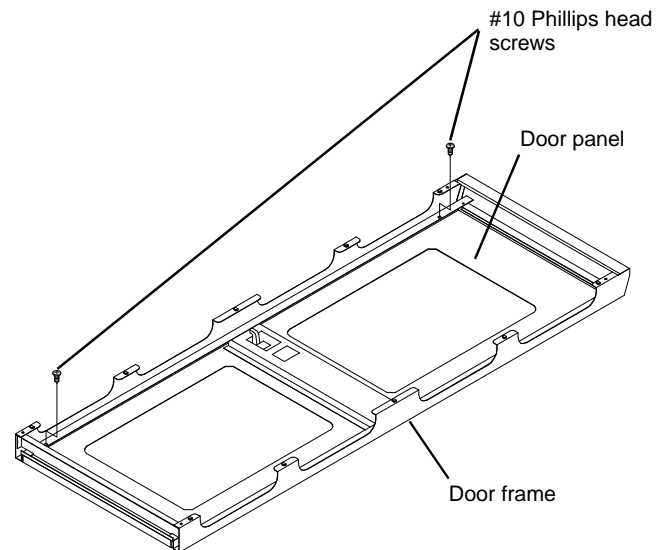


Figure 1  
Rear Service Door Assembly

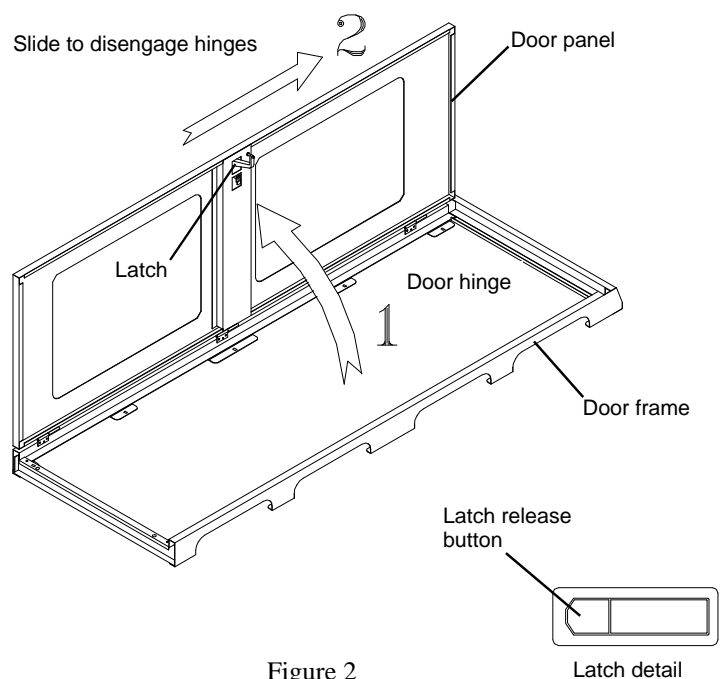


Figure 2



# Rack Mount Rear Service Doors (cont.)

## DOOR INSTALLATION (cont.)

However, the two shorter units, 38" and 24" high, may be assembled in any position along the height of the Full Frame. The shorter Rear Service Doors must be installed so that the top of the Door Frame is even with the top of the LAN Locker which has been previously assembled. Depending on the location, there may be an open space left at the top and/or bottom of the Full Frame between the Frame and the back of the Lan Locker. Two **Fillers** are supplied with each 38" and 24" high Rear Service Door to finish off the open space(s). Attach each Filler to the Door Frame with two #10-24 x 3/8" Phillips head thread forming screws. See **Figure 3**.

- Lift the Door Frame up and engage the hooks on the back of the Frame into the Full Frame Slotted Uprights. For the 84", 72", and 61" high "full height" Service Doors the top hooks should engage the third slot down from the top of each Upright. This will align the top of the Door Frame with the top of the Full Frame trim. For 38" and 24" high Service Doors, position the Door Frame so that the top of the Frame is even with the top of the LAN Locker which has been previously installed. See **Figure 4**.

Ensure that all of the Door Frame hooks are engaged into the Upright slots. If necessary, use a plastic mallet to tap the Door Frame downward to seat the hooks into the slots. **Caution! Use of excessive force may cause damage.**

- Insert a long screwdriver through the access holes in the Door Frame and bend the two **Retaining Tabs** (one on each Door Frame Upright) into the adjacent open slot. Push the tabs in approximately 1/16". See **Figure 5**.
- To replace the Door Panel, position the Door with its three female hinges oriented directly over the male hinge pins on the Door Frame. Lower the Door Panel making sure that all three female Door hinges properly engage the male hinge pins. See **Figure 6**.

*Please note: The Latch on the Rear Service Doors is adjustable and pre-set at the factory for proper operation. However, if minor adjustments are required, do so by first loosening the "jam" nut on the Latch adjusting screw and then making the necessary adjustments. Remember to re-tighten the "jam" nut to maintain the setting.*

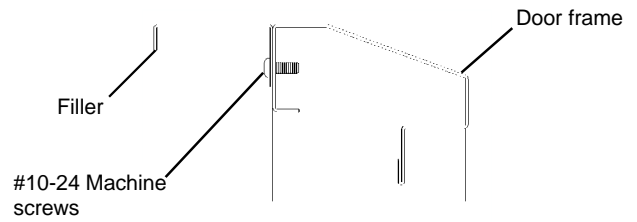


Figure 3

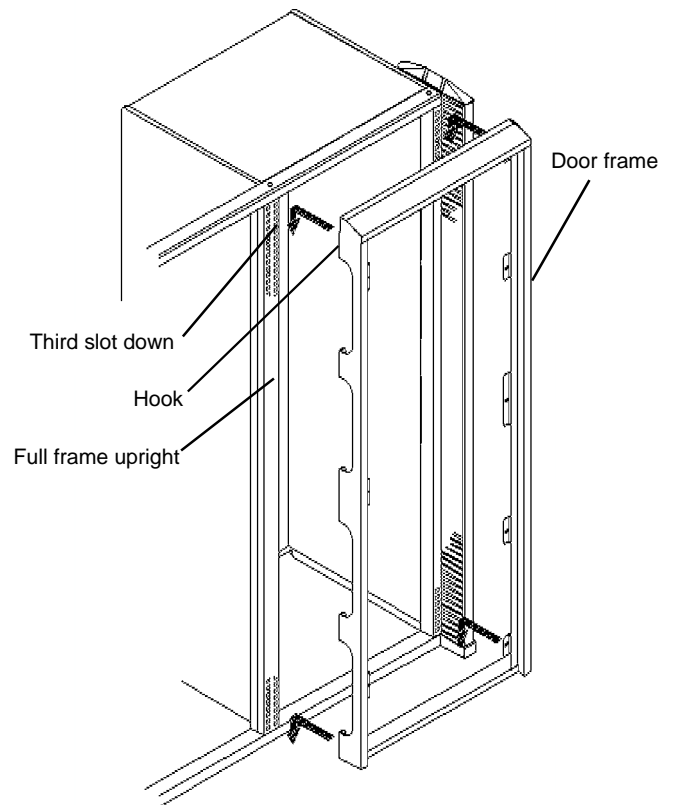


Figure 4

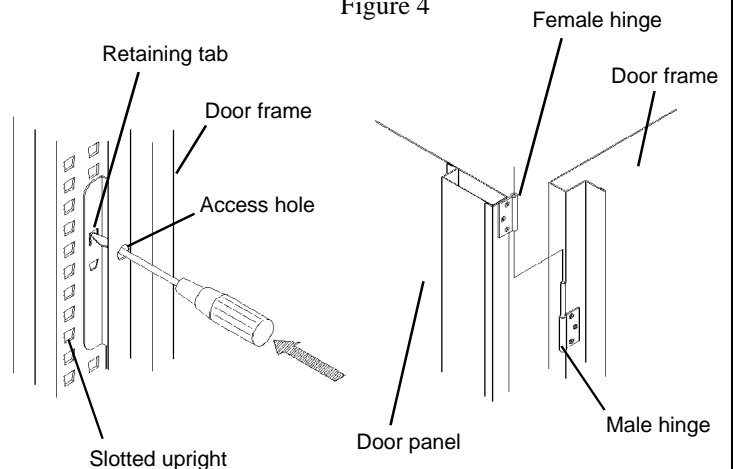


Figure 5

Figure 6

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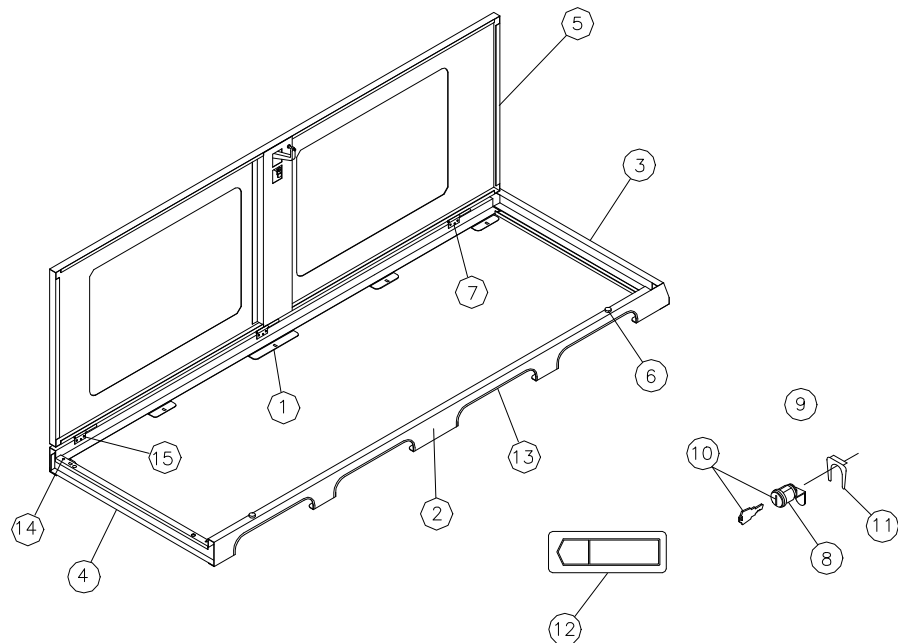
# Rack Mount Rear Service Doors (cont.)

## Parts List

| Part Number | Description                            | Qty. |
|-------------|--|------|
| <b>1</b>    | 3218X Frame Side - L.H., 24" High      | 1    |
|             | 3216X Frame Side - L.H., 38" High      |      |
|             | 3214X Frame Side - L.H., 61" High      |      |
|             | 3212X Frame Side - L.H., 72" High      |      |
|             | 3174X Frame Side - L.H., 84" High      |      |
| <b>2</b>    | 3219X Frame Side - R.H., 24" High      | 1    |
|             | 3217X Frame Side - R.H., 38" High      |      |
|             | 3215X Frame Side - R.H., 61" High      |      |
|             | 3213X Frame Side - R.H., 72" High      |      |
|             | 3175X Frame Side - R.H., 84" High      |      |
| <b>3</b>    | 3176X Frame Top - 30" Wide             |      |
| <b>4</b>    | 3177X Frame Bottom - 30" Wide          |      |
| <b>5</b>    | 3229X Door Panel - 30" Wide x 24" High | 1    |
|             | 3227X Door Panel - 30" Wide x 38" High |      |
|             | 3225X Door Panel - 30" Wide x 61" High |      |
|             | 3223X Door Panel - 30" Wide x 72" High |      |
|             | 3178X Door Panel - 30" Wide x 84" High |      |

## Parts List

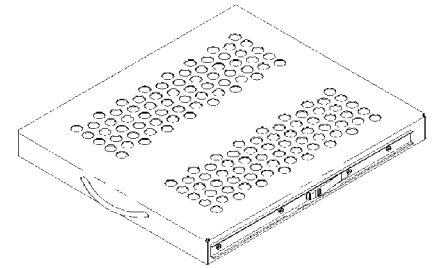
| Part Number | Description                                | Qty.   |
|-------------|--|--------|
| <b>6</b>    | 21034 Rubber Bumper                        | Varies |
| <b>7</b>    | 82462 Hinge                                | Varies |
| <b>8</b>    | 81910 Lock                                 | 1      |
| <b>9</b>    | 82494 Lock Cam                             |        |
| <b>10</b>   | 62046 Lock Core & Keys                     |        |
| <b>11</b>   | 60297 Spring Clip                          |        |
| <b>12</b>   | 82495 Door Latch                           |        |
| <b>13</b>   | 82538 Edge Protector                       | Varies |
| <b>14</b>   | 54348 1/4"-20 x 1/2" Hex Washer Head Screw | 4      |
| <b>15</b>   | 82215 #8AB x 3/4" Phillips Flat Head Screw | Varies |



## Tools Required

- 11/32" Combination wrench
- 3/8" Combination wrench
- Flat blade screwdriver
- Phillips head screwdriver
- Tape measure

**NOTE:** These instructions cover installation of the **Stationary Shelf**, and **Roll-out Shelf**.



Rack Mount Roll-Out Shelf

## CLIP NUT INSTALLATION

**Clip Nuts** (included with Rack Module) provide mounting points on 19" and 24" rack mount equipment rails.

Clip Nuts have a front or screw side. Consider which way it should face for ease of access to the screw head during component installation. See **Figure 1**.

To remove a Clip Nut from a rail, insert a flat blade screwdriver or knife under the tab on the front and pry up, freeing the retaining ring from the rail. See **Figure 1**.

1. Select the location at which the shelf or roll-out will be installed in the Rack Mount Module.

**NOTE:** If the component is a roll-out and the weight load exceeds 75lbs. or more, use four screws in each of the brackets. See **Figure 4**. It will be necessary to select a four hole grouping that matches the bracket. The center two holes will be .50" apart. If less than 75 lbs., two screws are sufficient.

2. Snap one Clip Nut into the top hole at the selected position. For light loads, place the second Clip Nut four holes (1.75") below. Start #10-32 x 1/2" screws.

Use a mounting bracket as a guide to match holes and attach corresponding Clip nuts. **Do not** start the screws.

3. Measure from the bottom of the Vertical Rail to the top Clip Nut. Assemble Clip Nuts onto the three other rails at the measured height.

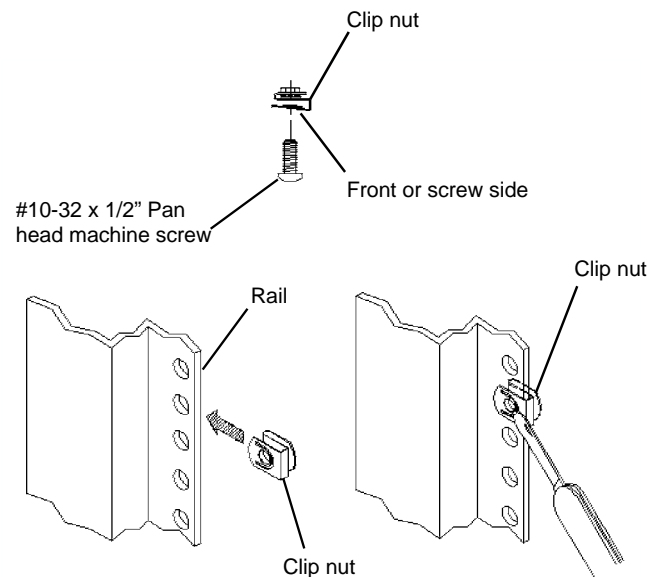


Figure 1

# Rack Mount Shelf ( c o n t . )

## ROLL-OUT SHELF INSTALLATION

**NOTE:** The **Roll-Out** is equipped with “**Lock Out Slides**” and a “**Front Disconnect**” chassis member for your convenience during assembly to the Rack Module.

1. Assemble the Slide sections onto the Rack Module rails. Slip the **Mounting Brackets** behind the screw head of the Clip Nut. See **Figure 4**.
2. Snug the Clip Nut screws enough to retain the Slide, but still allow it to move in and out. **Do not tighten.**
3. Tighten the **Rear Mounting Bracket** to the Slide screws now (not the Clip Nut screws).
4. Close the two sections of the assembled Slide.

Slide the shelf with the disconnect members into the mounted section. See **Figure 5**.

Push the shelf in until there is a click

Now extend it to its full length.

Push it in again until it is fully closed (the ends of the three slide sections are even). The last two inches may bind; just push. It should now slide in and out freely.

5. Now tighten the Clip Nut screws or leave them snug.
6. To remove the shelf and chassis rail, refer to **Figure 6**.

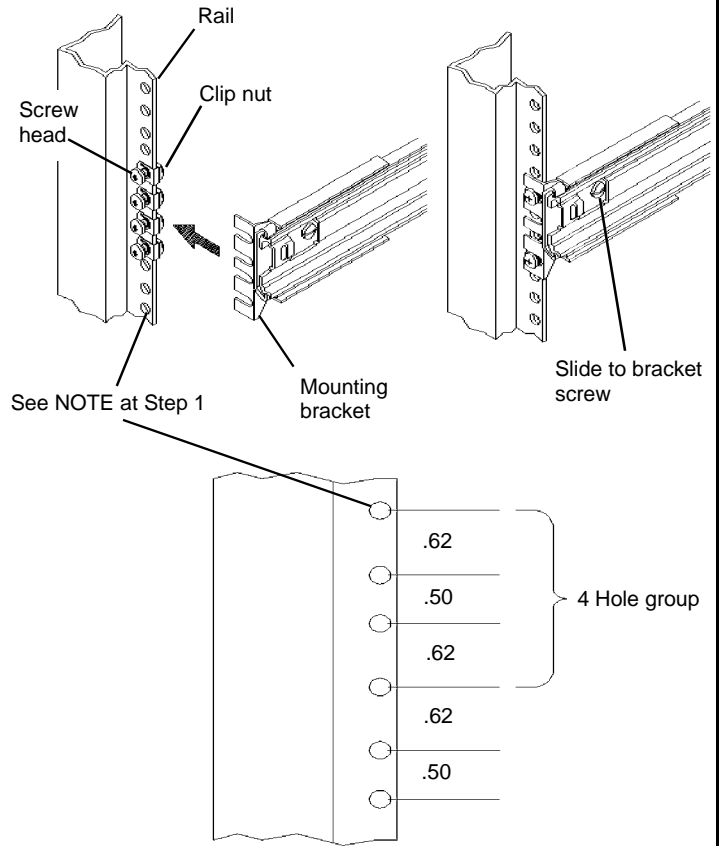


Figure 4

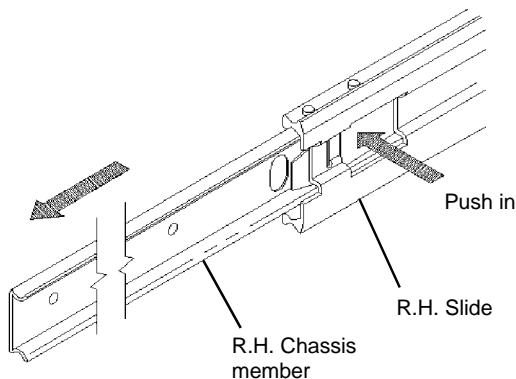


Figure 6

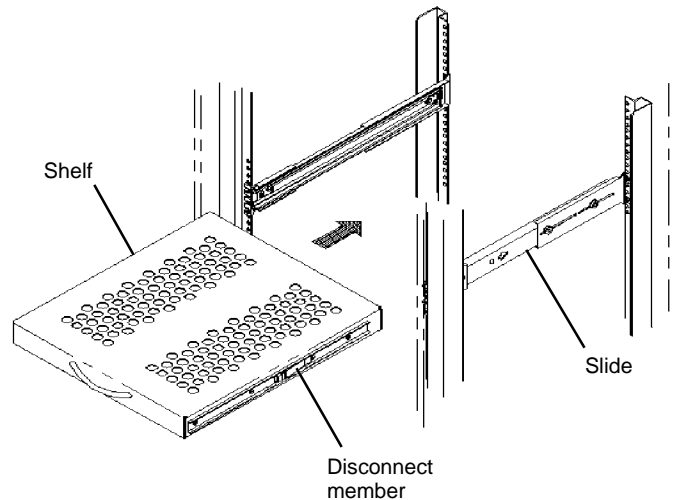


Figure 5

## STATIONARY SHELF INSTALLATION

1. Position the **Stationary Shelf** with the four brackets on the correct side of the clip nuts See **Figure 2**.
2. Attach the front brackets to the rails and tighten.
3. Repeat for the rear brackets and tighten all screws.

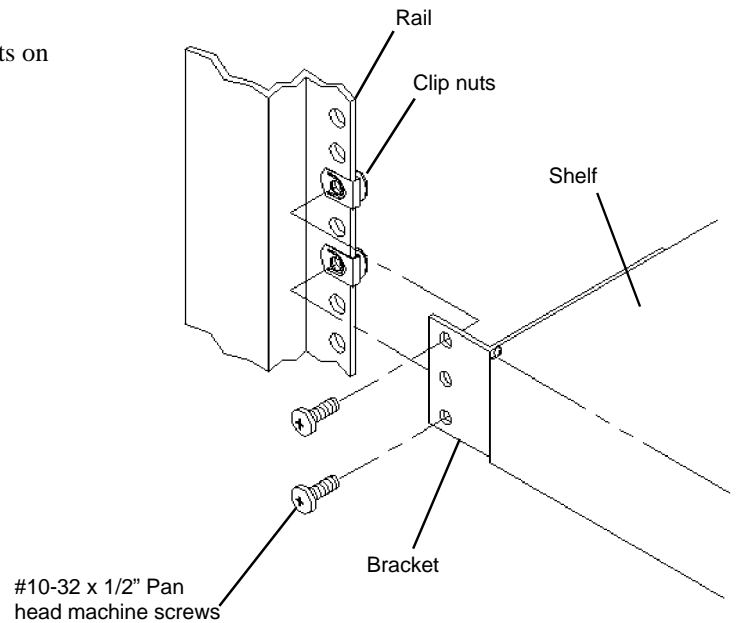


Figure 2

## STATIONARY SHELF WITH KEYBOARD MOUNT (AVAILABLE ON 24" RACK MOUNT SHELF ONLY)

1. Assemble the **Keyboard Track** to the underside of the Shelf before installing the Shelf component to Rack Mount Rails. The Keyboard Track Mount is flush to the Shelf front. See **Figure 3**.

The rear of the Shelf is indented to allow the Keyboard Platform Support mechanism to slide on the Track. It is necessary to use a bumper at that end as a stop.

Refer to Keyboard assembly instructions to complete installation.

2. Install the shelf as described in Steps 1 through 3 above.

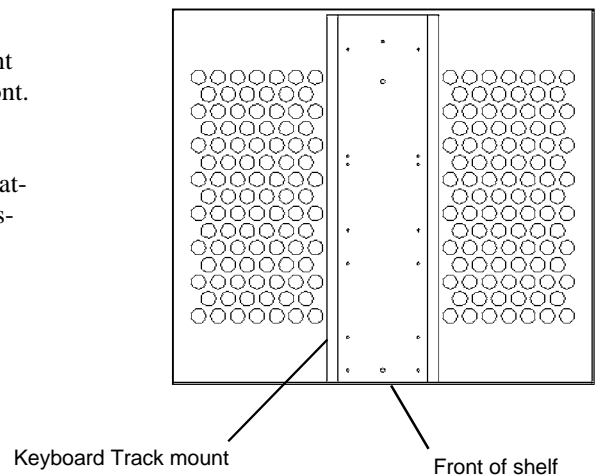


Figure 3  
Underside of Shelf

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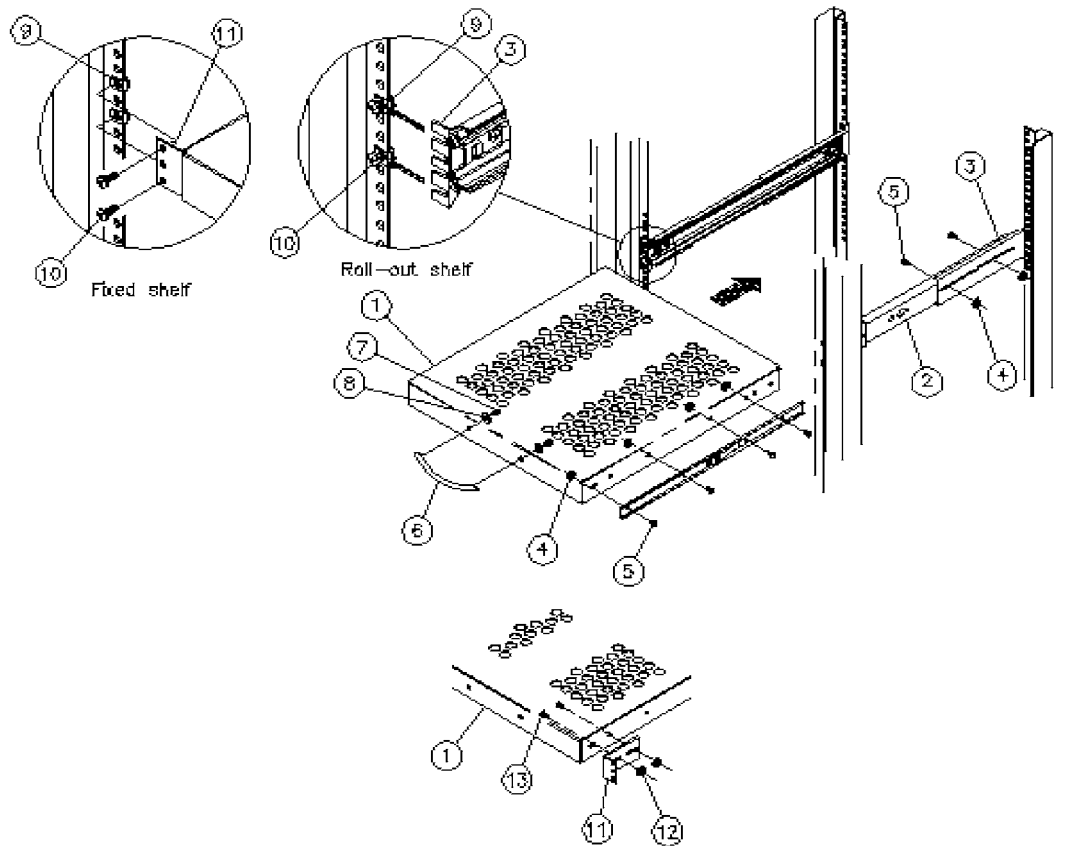
# Rack Mount Shelf ( c o n t . )

## Parts List

| Part Number | Description                               | Qty. |
|-------------|---|------|
| 1           | 3150X X-Deep Shelf                        | 1    |
|             | 3432X Rack Mount Shelf, 16.6" x 28"       |      |
| 2           | 82155 Quick Disconnect Slide, 18"         | 2    |
|             | 82459 Quick Disconnect Slide, 28"         |      |
| 3           | 82156 Mounting Bracket Kit                | 2    |
| 4           | 18244 #8-32 Keps Lock Nut                 | 16   |
| 5           | 82157 #8-32 x 3/8" Slotted Pan Head Screw | 16   |
| 6           | 81911 Handle                              | 1    |

## Parts List

| Part Number | Description  | Qty. |
|-------------|--|------|
| 7           | 81868 4mm x 6mm Phillips Phillister Head Screw             | 2    |
| 8           | 18977 Lock Washer  | 2    |
| 9           | 82087 #10-32 Clip Nut                                      | 16   |
| 10          | 82031 #10-32 x 1/2" Pan Head Machine Screw                 | 16   |
| 11          | 7061X Rack Mount Shelf Bracket                             | 4    |
| 12          | 18242 #10-24 Keps Lock Nut                                 | 8    |
| 13          | 66714 #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 8    |



# Vertical Adapter Rail/Horizontal Chassis Bracket

## Tools Required

- Phillips head screwdriver

## VERTICAL ADAPTER RAIL

**NOTE:** The Front Rail should be in the forward-most position.

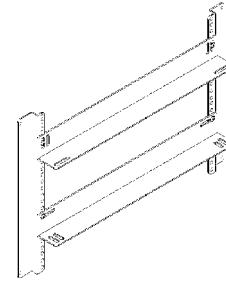
1. Locate mounting holes on existing front and rear rails attached to Rack Mount Module Side Panels. See **Figure 1**.
2. Attach the **Vertical Adapter Rails** to the Front and Rear Rails on both sides of the unit at equal heights using the #10-24 x 1/2" screws and #10-24 lock nuts provided. See **Figure 2**.

**NOTE:** If additional clearance is required between the acrylic door panel and the Front Rail, reverse the Front Rail as shown in **Figure 3**.

## HORIZONTAL CHASSIS BRACKET

1. Four #10-32 Clip Nuts and four #10-32 x 1/2" Phillips head machine screws are included for attaching the **Horizontal Chassis Bracket** to the Vertical Adapter Rails.
2. Install the Clip Nuts in the desired location on the Vertical Adapter Rails. **Figure 4**.
3. Attach the Horizontal Chassis Bracket to the Vertical Adapter using the #10-32 screw.

**NOTE:** For additional horizontal adjustments, attach the Horizontal Bracket as shown in **Figure 4**. For vertical adjustments, attach the Horizontal Bracket using holes on the other face.



Vertical Adapter Rail/Horizontal Chassis Bracket

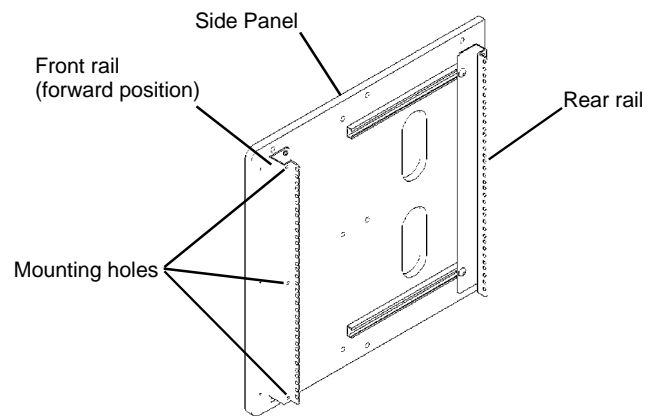


Figure 1

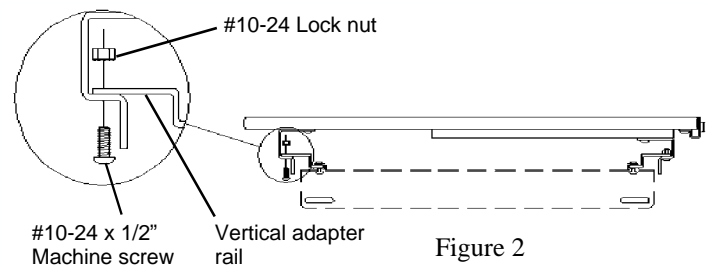


Figure 2

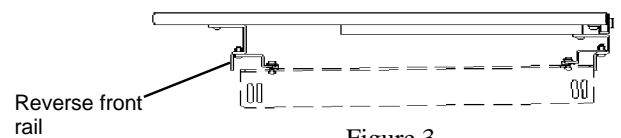


Figure 3

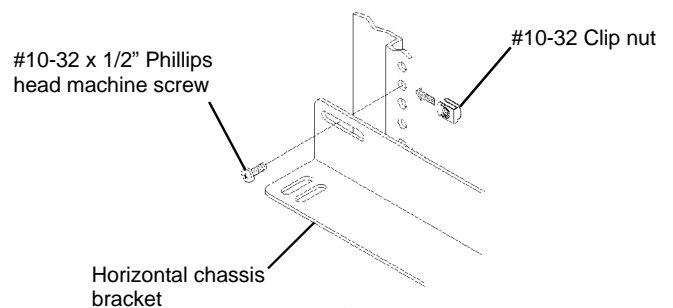
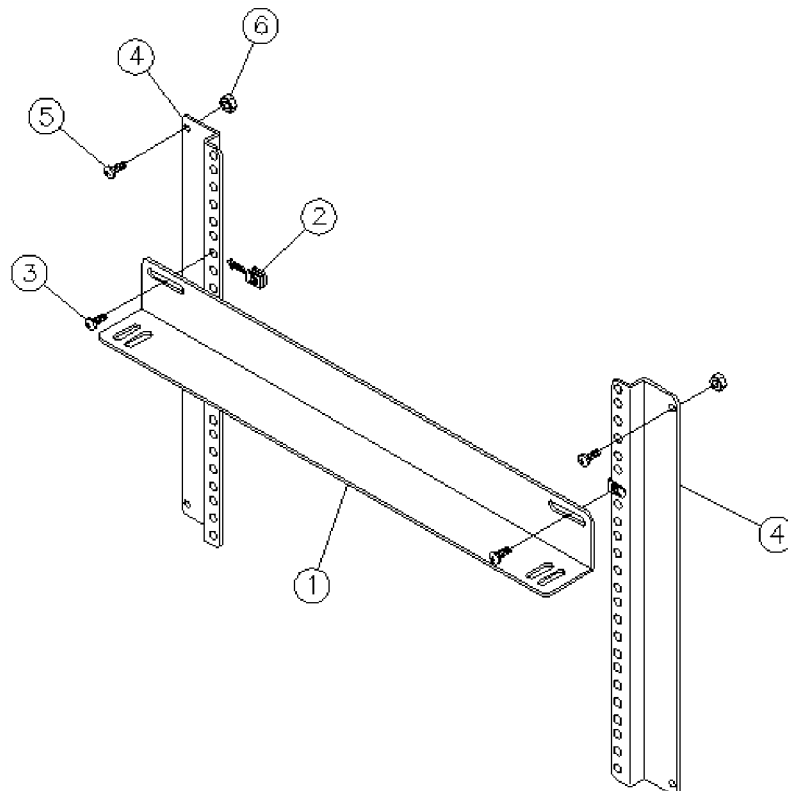


Figure 4

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# Vertical Adapter Rail/Horizontal Chassis Bracket (cont.)

| Parts List  |       |   |      |
|-------------|-------|---|------|
| Part Number |       | Description                                   | Qty. |
| <b>1</b>    | 82598 | 19" Horizontal Chassis Bracket                | 2    |
| <b>2</b>    | 82087 | #10-32 Clip Nut                               | 4    |
| <b>3</b>    | 82031 | #10-32 x .50" Hillips Pan Head Machine Screw  | 4    |
| <b>4</b>    | 3243X | 7" Vertical Adapter Rail                      | 4    |
|             | 3244X | 14" Vertical Adapter Rail                     |      |
|             | 3245X | 24" Vertical Adapter Rail                     |      |
|             | 3246X | 35" Vertical Adapter Rail                     |      |
|             | 3247X | 56" Vertical Adapter Rail                     |      |
|             | 3248X | 66" Vertical Adapter Rail                     |      |
|             | 3249X | 78" Vertical Adapter Rail                     |      |
| <b>5</b>    | 55617 | #10-24 x .50" Phillips Pan Head Machine Screw | 8-32 |
| <b>6</b>    | 18242 | #10-24 Lock Nut                               | 8-32 |





# Patch Panel Brackets

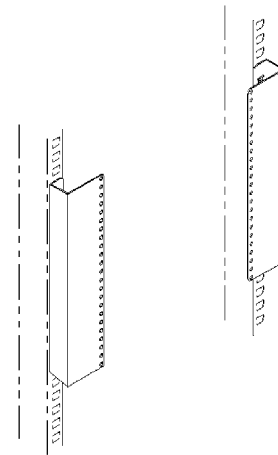
**Tools Required**

- Plastic mallet

1. Determine the desired location of the **Patch Panel Brackets** on the Full Frame. **NOTE:** If multiple levels are being used, install the lowest level first.

Position the brackets as shown in **Figure 1**. Insert the hooks into the slotted standard and push down. To assure the hooks are seated, tap the bracket down with a plastic mallet or equivalent. See **Figure 1**.

**NOTE:** The 1-3/4"(44mm) hole spacing module is continuous from bracket to bracket. Brackets of various sizes may be installed together if there is adequate vertical space on the slotted standards.



Patch Panel Brackets

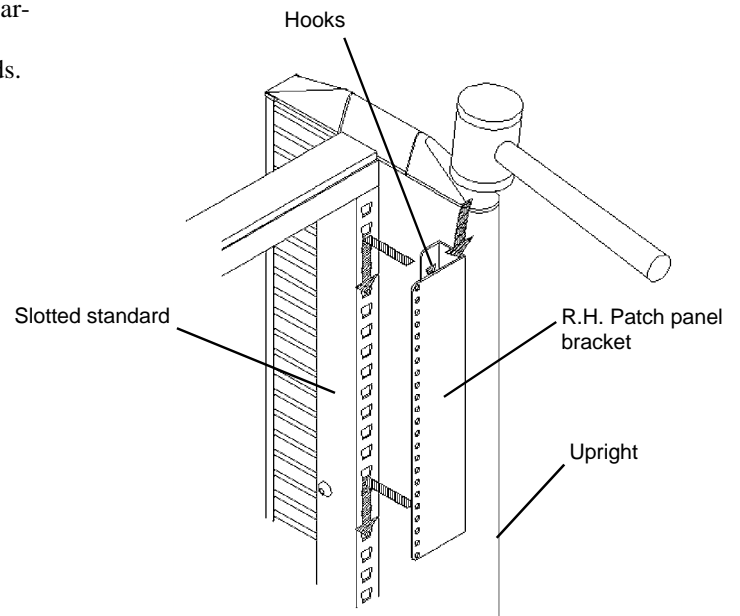


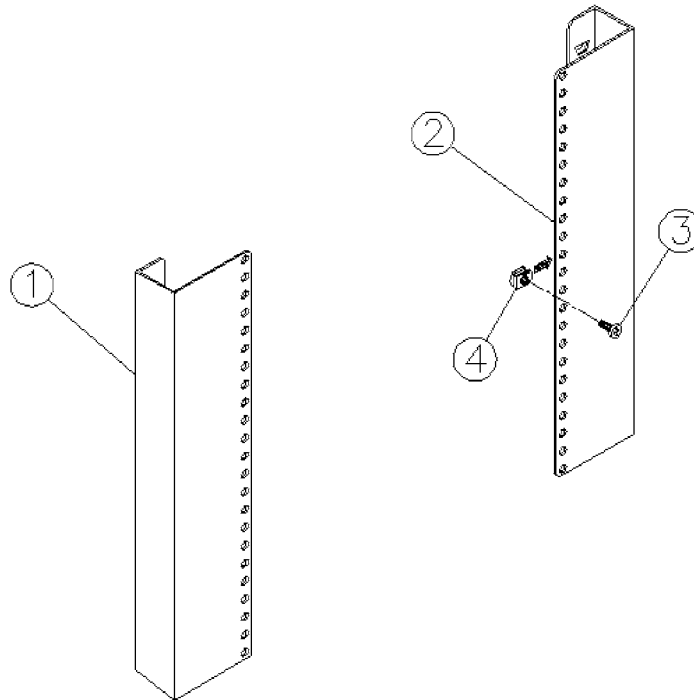
Figure 1

| Maximum Quantity Of Brackets Per Full Frame Unit |             |             |             |
|--|-------------|-------------|-------------|
|  | 61"(1549mm) | 72"(1829mm) | 84"(2134mm) |
| LB80, 7"(179mm) Bracket                          | 7           | 9           | 11          |
| LB81, 14"(356mm) Bracket                         | 3           | 4           | 5           |
| LB82, 21"(533mm) Bracket                         | 2           | 3           | 3           |
| LB83, 35"(889mm) Bracket                         | 1           | 1           | 1           |
| LB84, 56"(1422mm) Bracket                        | 1           | 1           | 1           |

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# Patch Panel Brackets (cont.)

| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description  | Qty. |
| <b>1</b>    | 2406X | 7" Patch Panel Bracket, L.H.                         | 1    |
|             | 2404X | 14" Patch Panel Bracket, L.H.                        |      |
|             | 2853X | 21.3" Patch Panel Bracket, L.H.                      |      |
|             | 2855X | 35.3" Patch Panel Bracket, L.H.                      |      |
|             | 2857X | 56.3" Patch Panel Bracket, L.H.                      |      |
| <b>2</b>    | 2407X | 7" Patch Panel Bracket, R.H.                         | 1    |
|             | 2405X | 14" Patch Panel Bracket, R.H.                        |      |
|             | 2854X | 21.3" Patch Panel Bracket, R.H.                      |      |
|             | 2856X | 35.3" Patch Panel Bracket, R.H.                      |      |
|             | 2858X | 56.3" Patch Panel Bracket, R.H.                      |      |
| <b>3</b>    | 80023 | #10-24 x 3/4" Phillips Pan Head Thread Forming Screw | 10   |
| <b>4</b>    | 81615 | #10-24 "U" Type Nut                                  | 10   |



### Tools Required

- Phillips head screwdriver
- Plastic mallet
- Flat file

**Tech Walls** are available as fabric covered or perforated steel partitions. These instructions are applicable for both types of panels.

Panels are provided in various widths and heights, depending on the size of the Full Frame.

### IMPORTANT!

Tech walls **cannot** be installed on Full Frames shipped prior to 12/26/95, as the space between the Slotted Standards varies.

**NOTE:** For ease of installation, it is recommended that the panels be installed onto the Full Frames prior to the installation of any other components. (ie. worksurfaces, shelves, ect.). If this is not possible, proceed to page \_ for panel installation with components pre-installed on one side of the Full Frame.

1. Attach the steel **Mounting Channels** to the side of the Full Frame Slotted Standards, using the #8-32 x 3/8" Phillips pan head thread forming screws provided. See **Figure 1a**.
2. Install the Mounting Channels with the end having the embossed triangle at the top. Align the holes in the Mounting Channel with the pre-punched holes in the Slotted Standards. Fasten the Mounting Channel in place with a screw in each hole. See **Figure 1b**.

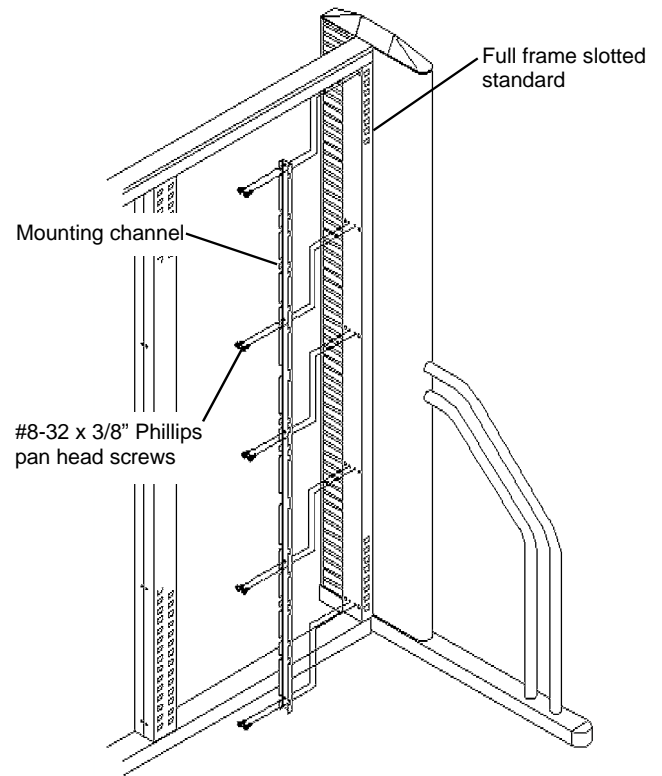


Figure 1a

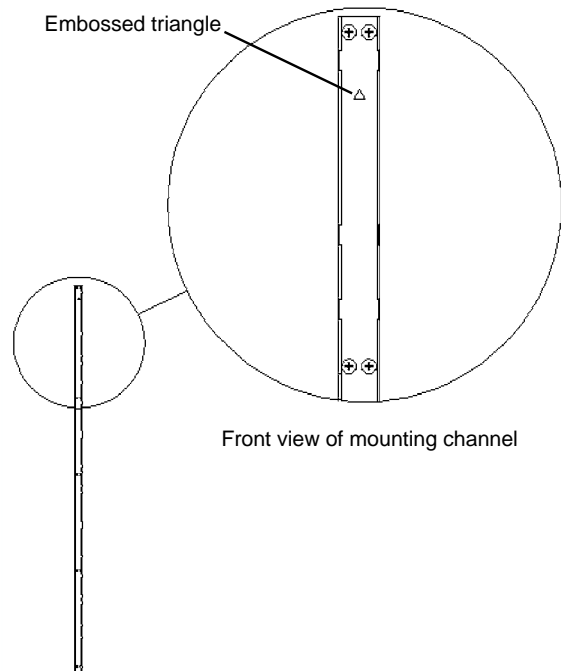


Figure 1b

**Important** - For proper panel installation, the Mounting Channels must attach flat against the Slotted Standards. If a weld joining the two halves of the intermediate standard exceeds a height of approximately .03"(.8mm), it may be necessary to carefully file the weld. See **Figure 2**.

3. Install the panels onto the Full Frame by first inserting one side of the panel onto the Mounting Channel and then snapping the panel onto the opposite Mounting Channel. See **Figure 3**.
4. To facilitate positioning the panel within the Frame, align the locator tab on each corner of the panel with the appropriate notch in the Mounting Channel. See **Figure 4**.

**NOTE:** It is recommended that the panels be installed from the bottom up.

The quantity of panels will vary, depending on the size of the Full Frame. Reference page \_\_, for panel configurations.

Install the panels onto both sides of the Full Frames. To insure that the panels are fully attached, tap the vertical sides of the frame with a Plastic mallet.

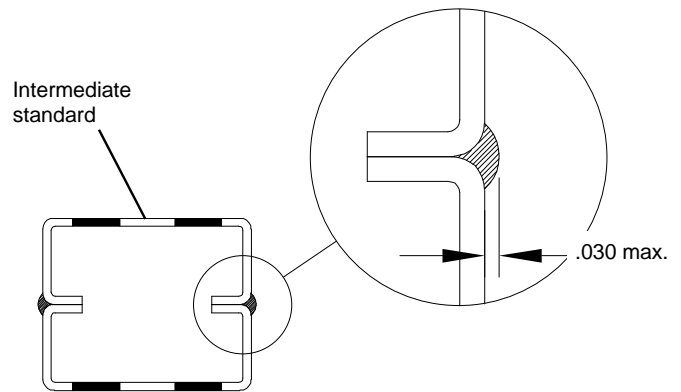


Figure 2

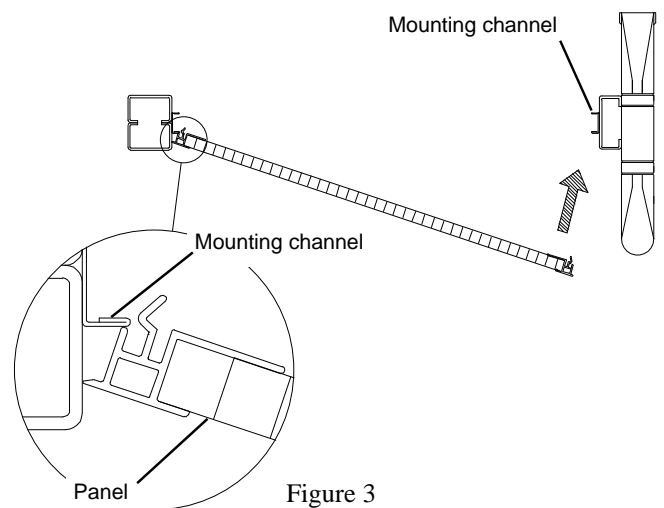


Figure 3

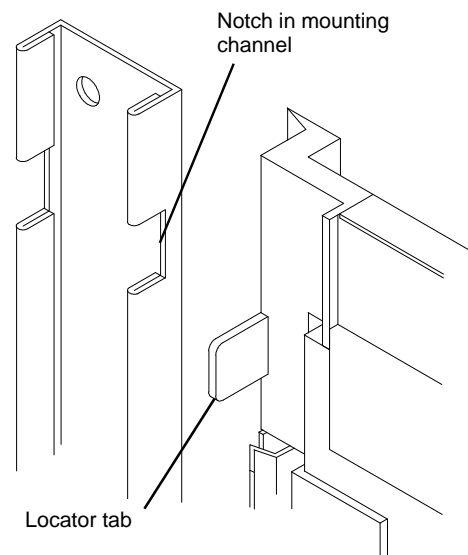


Figure 4

## Panel Installation with Components Pre-installed on One Side of Frame

**Tech Walls** may be installed onto Full Frames that have other components on one side. If the Frames have components installed on both sides, they must be removed from one side prior to panel installation.

1. Attach a single Steel Mounting Channel to the left or right side of each Full Frame section. See **Figure 1**.
2. Install the panels, from the bottom up, onto the single Mounting Channel. See **Figure 2**.

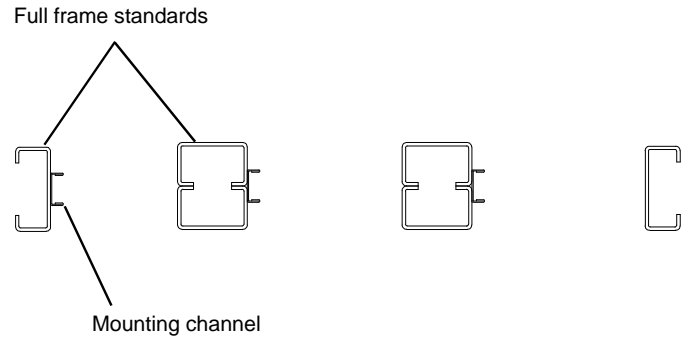


Figure 1

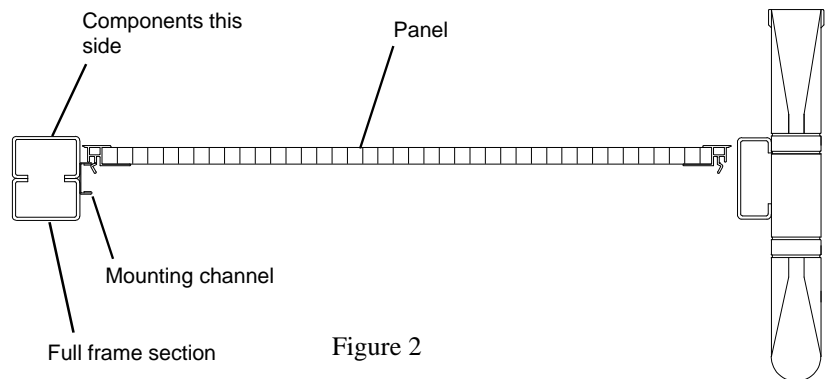


Figure 2

3. With all panels in place, insert the second Mounting Channel into the **Vertical Panel Retainer**. See **Figure 3a**. Align Frame tabs with the slots on the channel.

Rotate the Mounting Channel, align the holes in the channel with the holes in the Frame Standard, and fasten the channel in place, using the #8-32 x 3/8" screws. See **Figure 3b**.

4. Install the second set of panels onto the side of the Frame without components following the instructions on page L1, step 2.

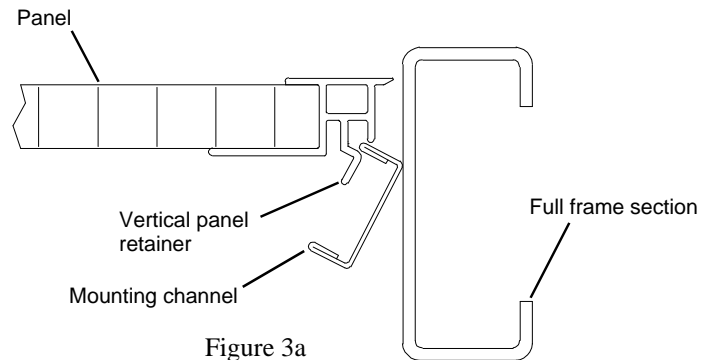


Figure 3a

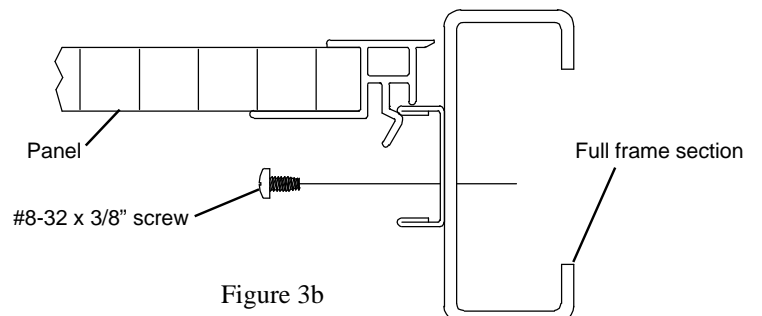


Figure 3b

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# Tech Wall ( c o n t . )

## Parts List

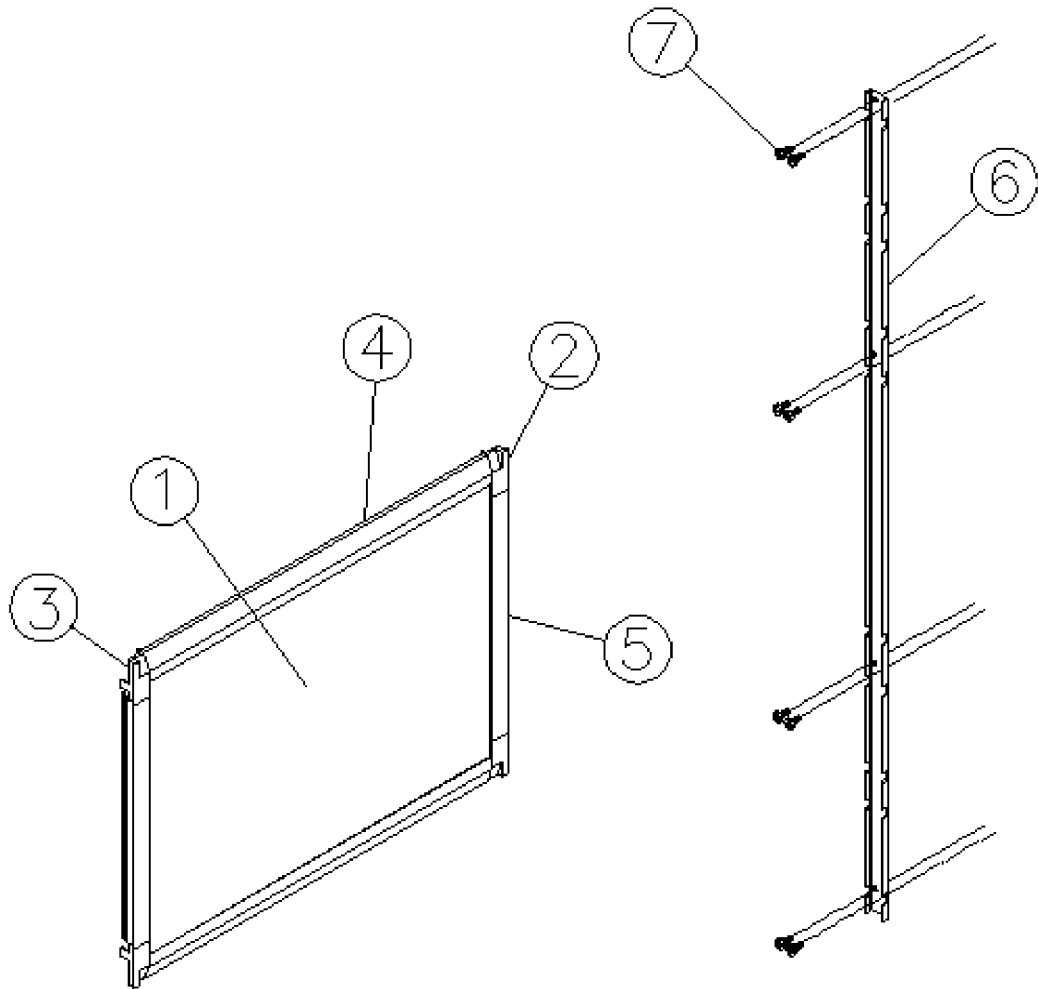
| Part Number | Description                   | Qty. |
|-------------|-------------------------------|------|
| 83563       | Fabric Panel, 25.84" x 19.88" | 1    |
| 83564       | Fabric Panel, 25.84" x 25.88" |      |
| 83565       | Fabric Panel, 25.84" x 31.88" |      |
| 83548       | Fabric Panel, 10.86" x 19.88" |      |
| 83549       | Fabric Panel, 25.84" x 25.88" |      |
| 83540       | Fabric Panel, 4.84" x 25.88"  |      |
| 83554       | Fabric Panel, 13.88" x 19.88" |      |
| 83555       | Fabric Panel, 13.80" x 25.88" |      |
| 83556       | Fabric Panel, 13.80" x 31.88" |      |
| 83560       | Fabric Panel, 24.80" x 19.88" |      |
| 83561       | Fabric Panel, 24.80" x 25.88" |      |
| 83562       | Fabric Panel, 24.80" x 31.88" |      |
| 83569       | Fabric Panel, 36.80" x 19.88" |      |
| 83570       | Fabric Panel, 36.80" x 25.88" |      |
| 83571       | Fabric Panel, 36.80" x 31.88" |      |
| 3889X       | Steel Panel, 25.84" x 19.88"  |      |
| 3890X       | Steel Panel, 25.84" x 25.88"  |      |
| 3891X       | Steel Panel, 25.84" x 31.88"  |      |
| 3874X       | Steel Panel, 10.86" x 19.88"  |      |
| 3875X       | Steel Panel, 10.86" x 25.88"  |      |
| 3876X       | Steel Panel, 10.86" x 31.88"  |      |
| 3880X       | Steel Panel, 13.80" x 19.88"  |      |
| 3881X       | Steel Panel, 13.80" x 25.88"  |      |
| 3882X       | Steel Panel, 13.80" x 31.88"  |      |
| 3886X       | Steel Panel, 24.80" x 19.88"  |      |
| 3887X       | Steel Panel, 24.80" x 25.88"  |      |
| 3888X       | Steel Panel, 24.80" x 31.88"  |      |
| 3895X       | Steel Panel, 36.80" x 19.88"  |      |
| 3896X       | Steel Panel, 36.80" x 25.88"  |      |
| 3897X       | Steel Panel, 36.80" x 31.88"  |      |

## Parts List

| Part Number | Description   | Qty.  |
|-------------|---|-------|
| 2           | 3400X Corner Connector, L.H.                              | 2     |
| 3           | 3401X Corner Connector, R.H.                              | 2     |
| 4           | 3906X 19.36" Horizontal Trim                              | 2     |
|             | 3907X 25.36" Horizontal Trim                              |       |
|             | 3908X 31.36" Horizontal Trim                              |       |
| 5           | 3917X 23.94" Vertical Trim                                | 2     |
|             | 3912X 8.96" Vertical Trim                                 |       |
|             | 3914X 11.90" Vertical Trim                                |       |
|             | 3916X 22.90" Vertical Trim                                |       |
|             | 3919X 34.90" Vertical Trim                                |       |
| 6           | 83300 40.40" Channel                                      | 2     |
|             | 83301 56.40" Channel                                      |       |
|             | 83302 67.40" Channel                                      |       |
|             | 83303 79.40" Channel                                      |       |
| 7           | 83645 #8-32 x 3/8" Phillips Pan Head Thread Forming Screw | 10-14 |
| 8           | 3920X Horizontal Retainer (not shown)                     | 2     |
|             | 3921X Horizontal Retainer (not shown)                     |       |
|             | 3922X Horizontal Retainer (not shown)                     |       |
| 9           | 3931X Vertical Retainer (not shown)                       | 2     |
|             | 3926X Vertical Retainer (not shown)                       |       |
|             | 3928X Vertical Retainer (not shown)                       |       |
|             | 3930X Vertical Retainer (not shown)                       |       |
|             | 3933X Vertical Retainer (not shown)                       |       |

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# Tech Wall ( c o n t . )



# Horizontal Cable Management

**Tools Required**

- Plastic Mallet

1. Install the **Horizontal Cable Management** component(s) in the desired location on the back of the frame by inserting the hooks at each end of the component into the slots in the Slotted Standards. See **Figure 1**.

The component should fall directly into place. To assure that the hooks are properly seated, tap the top rear corners with a plastic mallet or equivalent. See **Figure 2**.

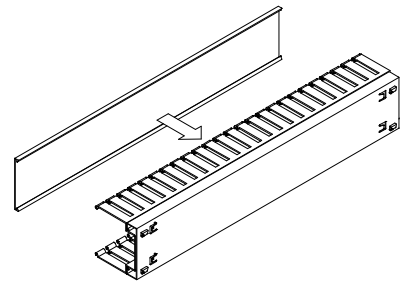
2. To remove the **Cover(s)** from the Horizontal Cable Management component(s), grasp the cover with both hands and push down and rotate the bottom of the Cover outward. See **Figure 3**.

**NOTE:** The 60" and 72" Horizontal Cable Management components are provided with two piece covers for ease of removal and/or installation.

3. Install the **Wire Retainers** (provided) as shown in **Figure 4**.

4. To re-install the Cover(s), hook the top edge over the top flanges of the Horizontal Cable Management. Push down with both hands and rotate the Cover inward to engage the bottom flanges of the Cable Management. See **Figure 3**.

**NOTE:** If the Vertical Covers have been removed, re-install them before installing the Horizontal Covers.



Horizontal Cable Management

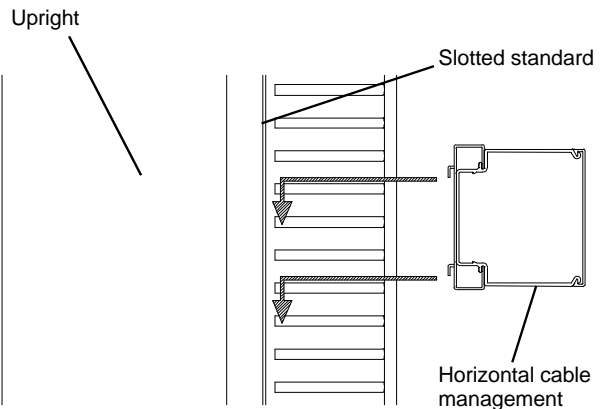


Figure 1

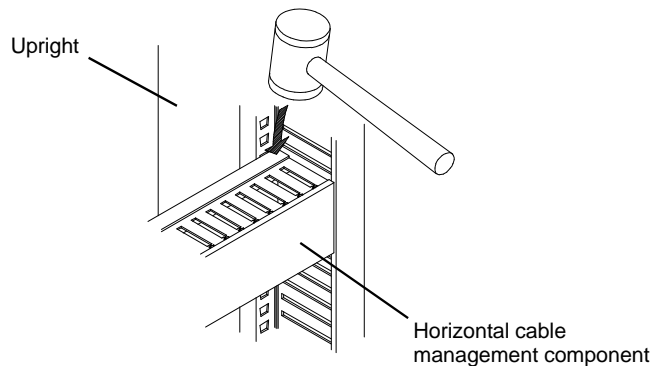


Figure 2

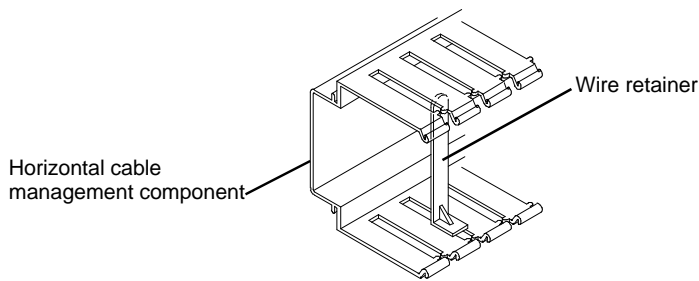


Figure 4

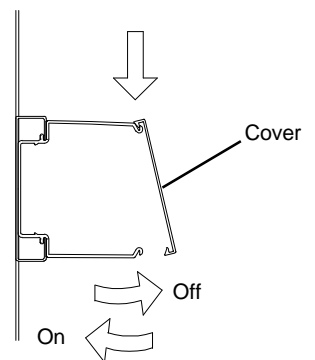


Figure 3



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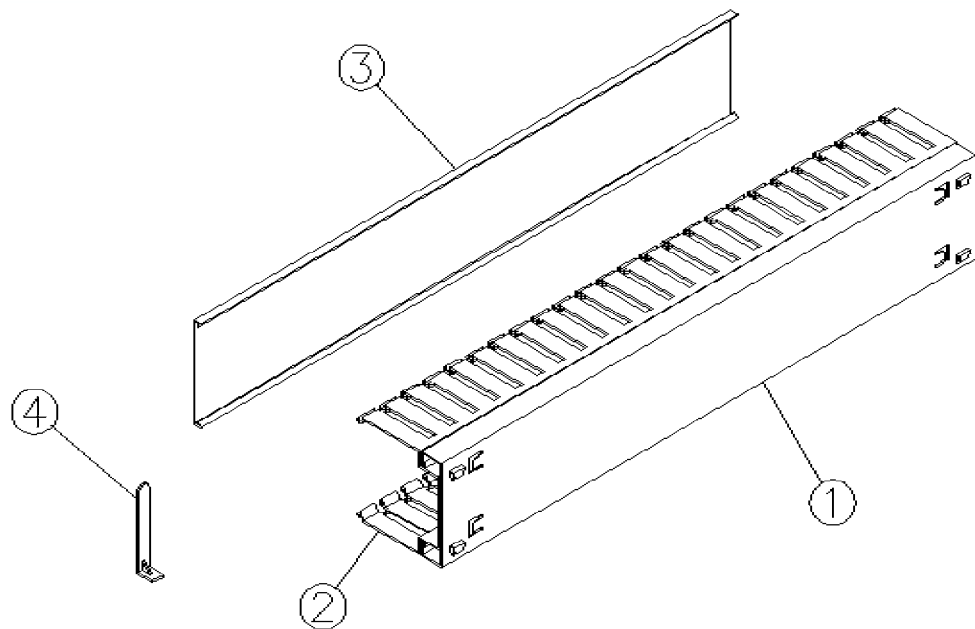
# Horizontal Cable Management (cont.)

## Parts List

| Part Number              | Description              | Qty. |
|--------------------------|--------------------------|------|
| 1                        | 3781X 3" x 4" HCM, 24"   | 1    |
|                          | 3780X 3" x 4" HCM, 30"   |      |
|                          | 3779X 3" x 4" HCM, 36"   |      |
|                          | 3778X 3" x 4" HCM, 42"   |      |
|                          | 3777X 3" x 4" HCM, 48"   |      |
|                          | 3776X 3" x 4" HCM, 60"   |      |
|                          | 3734X 3" x 4" HCM, 72"   |      |
|                          | 4366X 24" Wire Duct Rail |      |
| 4367X 30" Wire Duct Rail |                          |      |
| 4368X 36" Wire Duct Rail |                          |      |
| 4369X 42" Wire Duct Rail |                          |      |
| 4370X 48" Wire Duct Rail |                          |      |
| 4371X 60" Wire Duct Rail |                          |      |
| 4372X 72" Wire Duct Rail |                          |      |

## Parts List

| Part Number             | Description                | Qty. |
|-------------------------|----------------------------|------|
| 3                       | 3787X 4"x 24" HCM Cover    | 1    |
|                         | 3786X 4"x 30" HCM Cover    |      |
|                         | 3785X 4"x 36" HCM Cover    |      |
|                         | 3784X 4"x 42" HCM Cover    |      |
|                         | 3783X 4"x 48" HCM Cover    |      |
|                         | 7668X 4"x 60" HCM Cover    |      |
| 7667X 4"x 72" HCM Cover |                            |      |
| 4                       | 83824 Cable Retention Clip | 2    |



# Top Access Cable Management Brackets

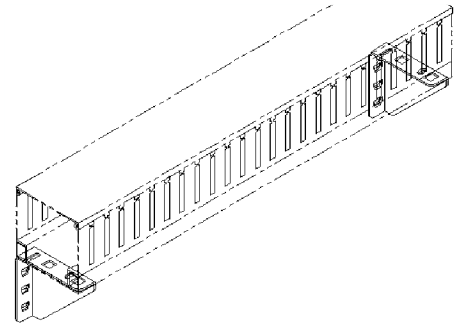
**Tools Required**

- None

**NOTE:** The **Top Access Cable Management Brackets** are used to reposition standard Horizontal Cable Management kits for top access into duct. The **Horizontal Cable Management Components** are ordered separately.

1. Install the **Top Access Cable Management Brackets** onto the bottom of the **Steel Duct Rail** by first inserting the bottom hook on the Duct Rail into the trapezoid shaped slot in each bracket. Next, rotate the brackets in the direction shown in **Figure 1a** to engage the other hook. Push the brackets in the direction shown to firmly seat them. See **Figure 1b**.
2. Install the **Horizontal Cable Management Component(s)** in the desired location on the back of the Frame by inserting the hooks on the brackets into the slots. See **Figure 2**.

Push down on the component to ensure that the hooks are fully seated in the Frame slots.



Top Access Cable Management Brackets

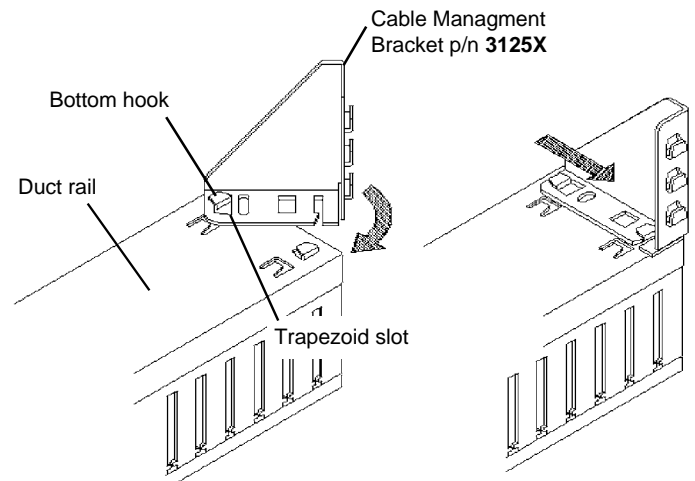


Figure 1a

Figure 1b

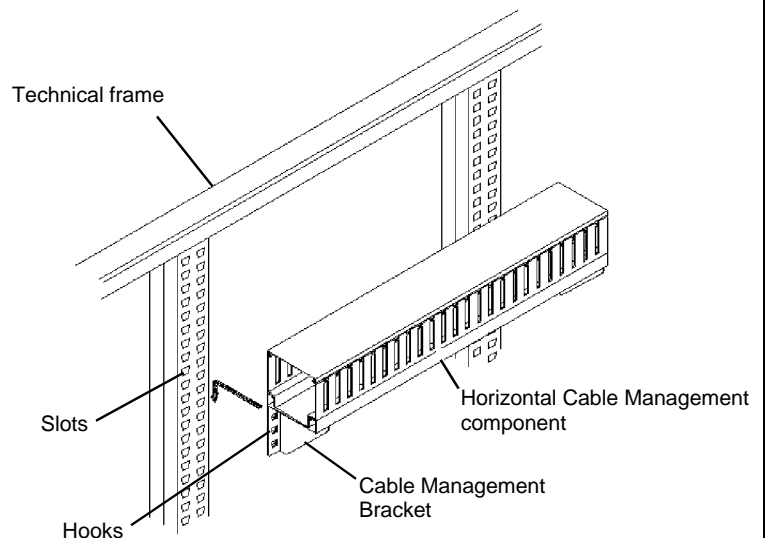


Figure 2

# Corner Connector - Top Access Horizontal Cable Management

Please read these instructions carefully and follow the installation steps in sequence.

## Tools Required

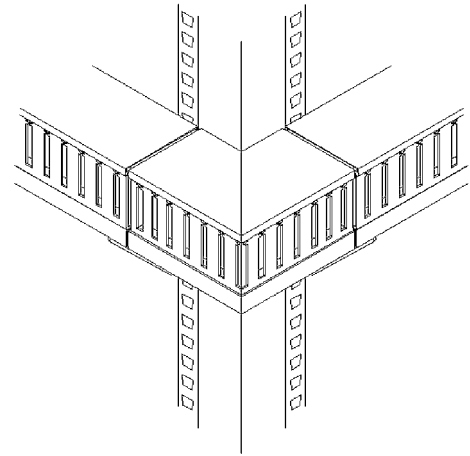
- Phillips head screwdriver

The **Corner Connector** is used with Top Access Cable Management in Tech Corner applications.

The Top Access Horizontal Cable Management sections must be installed on either side of the Tech Corner Post before installing the Corner Connector.

1. Install a **Support Bracket** into the bottom of each Top Access Horizontal Cable Management section. See **Figure 1**.
2. Place the Corner Connector assembly onto the two Support Brackets and fasten it to the brackets with the four #10AB x .25" Sheet metal screws provided. See **Figure 2**.

**NOTE:** To remove the Cover, move it away from the Corner Post and lift upward.



Corner Connector

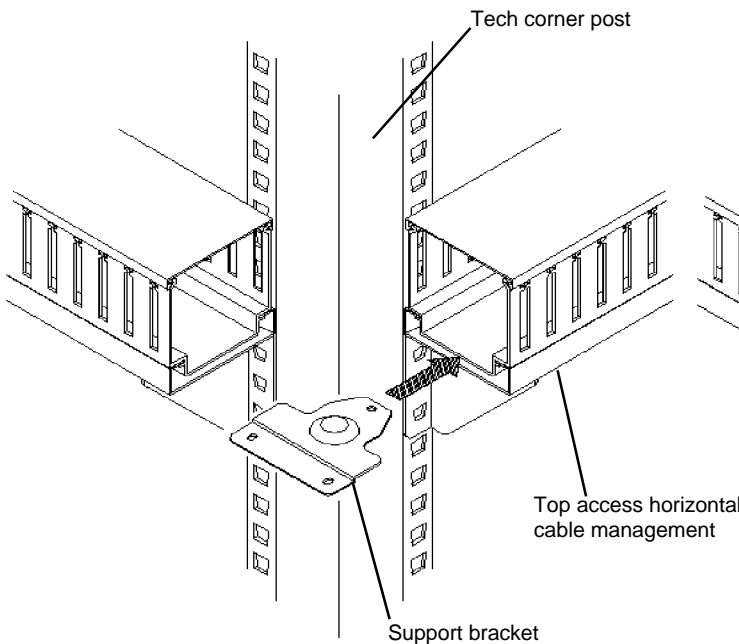


Figure 1

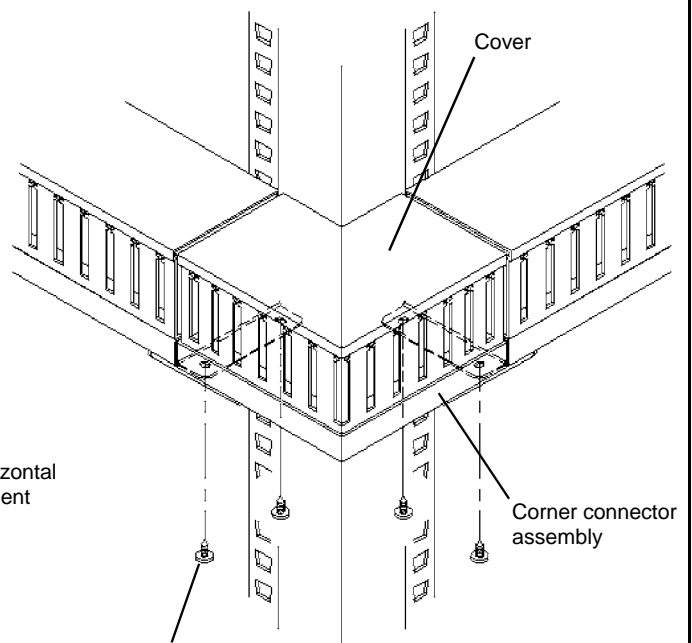


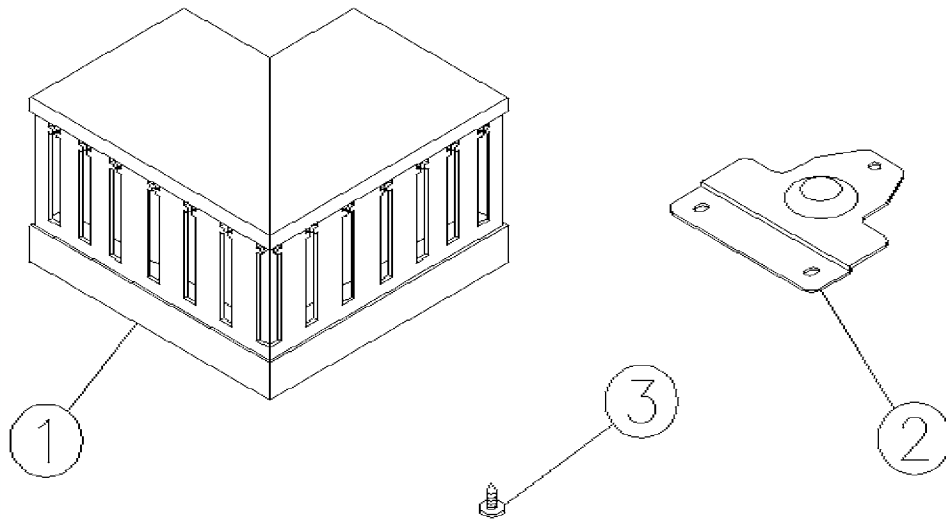
Figure 2

technical furniture

# Corner Connector - Top Access Horizontal Cable Management (cont.)

## Parts List

| Part Number | Description                     | Qty. |
|-------------|---------------------------------|------|
| 1           | 7321X Corner Connector Assembly | 1    |
| 2           | 86263 Support Bracket           | 2    |
| 3           | 66250 #10AB x .38" screw        | 4    |



# Horizontal Cable Management Connector

## Tools Required

- Phillips head screwdriver
- 5/32" Allen wrench (provided)
- 36" Carpenters level

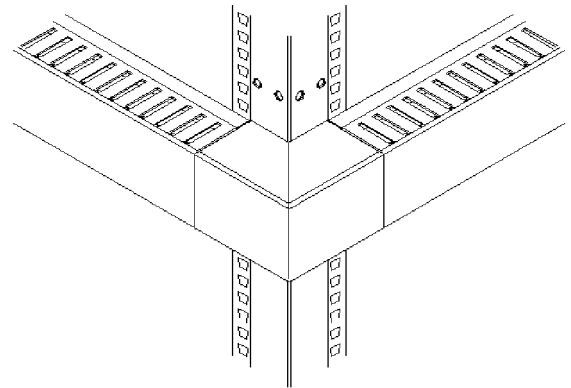
## Tech Corner Post

1. The **Tech Corner Post** enables LMS units and MediaLinx to turn 90 degrees. Dissimilar height units may be used around the Tech Corner Post, provided it is equal to the tallest frame.

First, using instructions supplied with the Full Frame and Upright, assemble an Upright to the end of the Full Frame opposite from the Corner Post. This will provide some extra stability while attaching the frame to the Post.

Posts have two rows of holes on each of four sides allowing right or left end attachment of the Full Frame. The end of the frame should be centered on the Post when correctly positioned. Attach with 1/4"-20 x 1- 5/8" Button head cap screws. See **Figure 1**.

2. Check for vertical straightness and horizontal level of the entire assembly. Adjust, using the levelers under the Post, Upright feet, and beneath the interior vertical posts of the 48" and larger Full Frames.



Tech Corner Post/Corner Cable

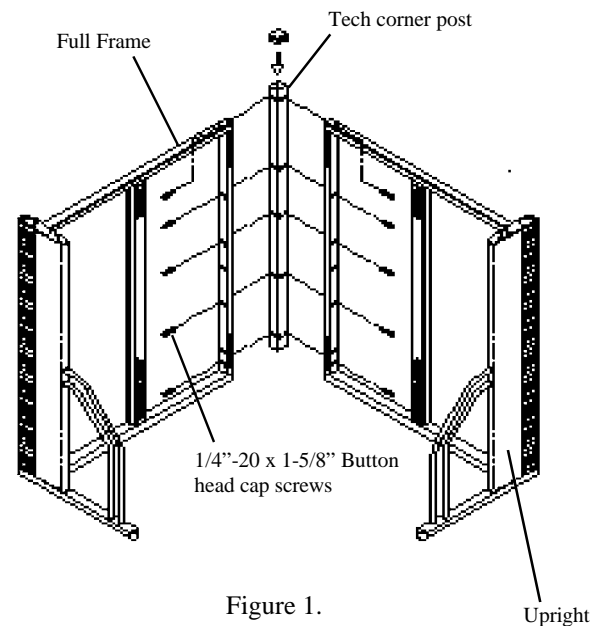


Figure 1.

# Horizontal Cable Management Connector (cont.)

## Corner Cable Management Connector

1. First, hook on two **Horizontal Cable Management Kits** at the same level on the back of a Tech Corner configuration. **DO NOT** put the **Covers** on.
  2. With a pencil, mark where the top of the Wire Duct Rail sits on the Full Open Frame. This mark will be a reference point when attaching the **Corner Connector**.
  3. Unhook one side of one of the Horizontal Cable Management (HCM). Slide the tabs on the Corner Connector into the HCM rail as shown in **Figure 2**. Part of the tab will fit between the finger on the HCM and the steel HCM rail. It may be necessary to squeeze the outside of the HCM in order to slide the tab into position.
  4. Unhook the other HCM and insert the tab as shown in step 3.
  5. Keeping the HCM and the HCM Corner at the same level, swing the attached pieces so that the hooks on the Wire Duct Rail can be reattached at the proper height. Use the pencil marks as a reference point.
- Note: It may be necessary to tap the Wire Duct Rails down in order to seat the hooks properly.
6. Attach all Covers

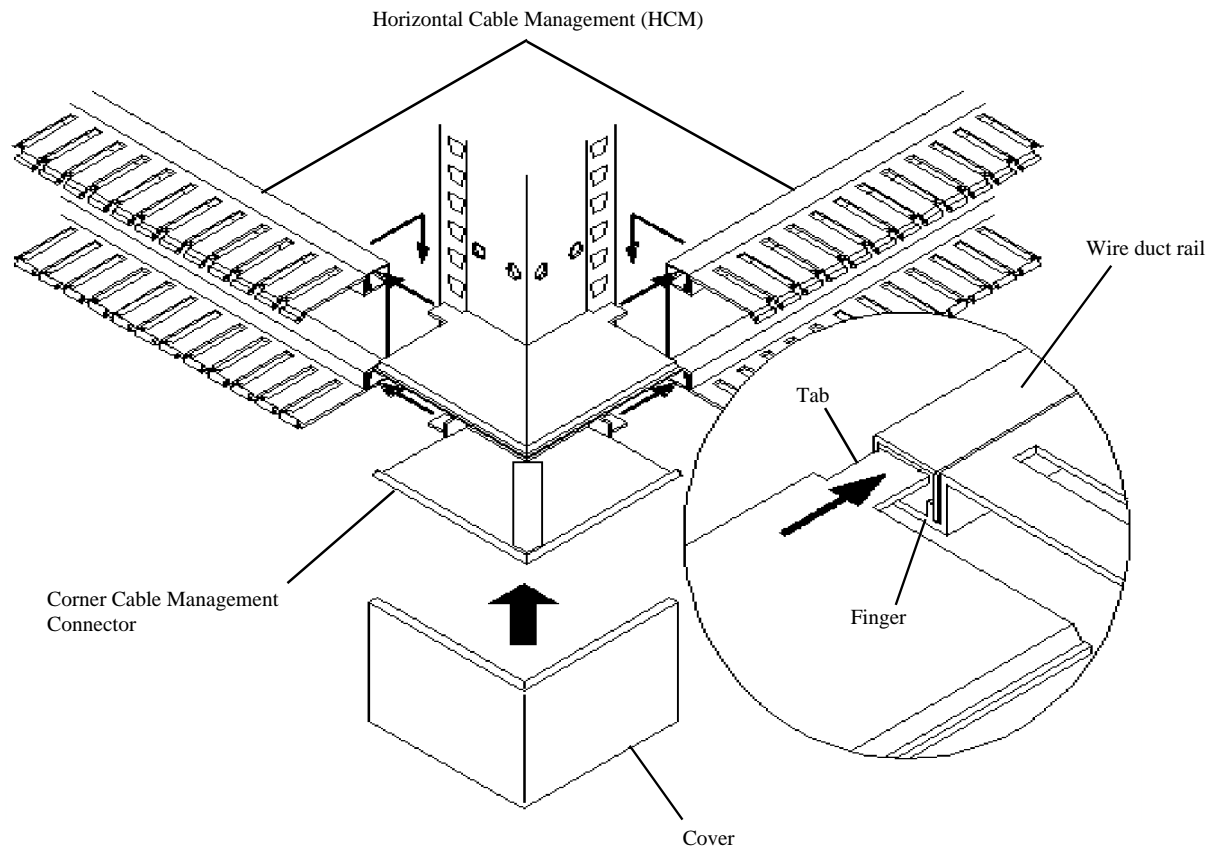
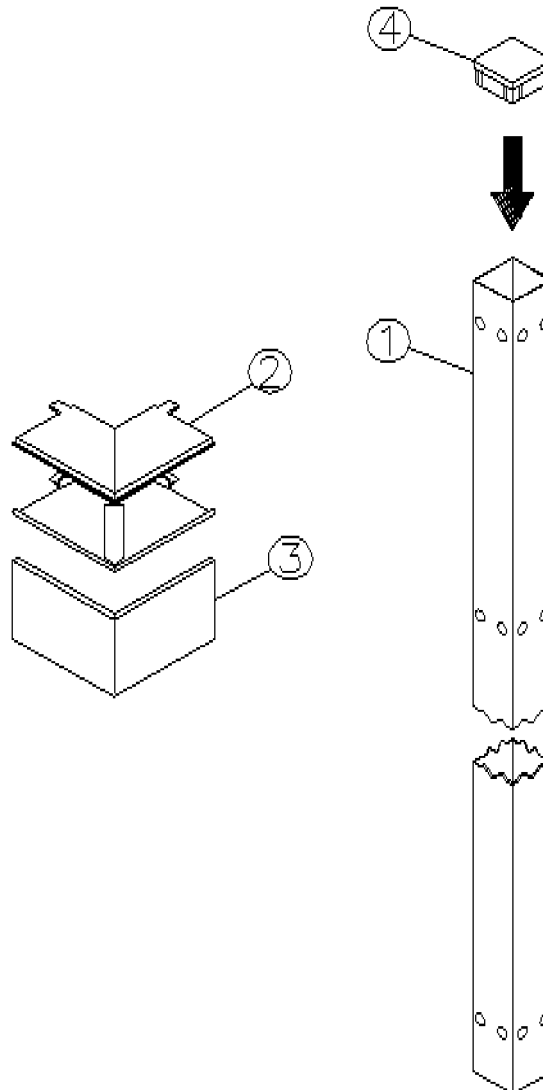


Figure 2

technical furniture

# Horizontal Cable Management Connector (cont.)

| Parts List  |       |                     |      |
|-------------|-------|---------------------|------|
| Part Number |       | Description         | Qty. |
| 1           | 2943X | Corner Post, 83.20" | 1    |
|             | 2944X | Corner Post, 71.20" |      |
|             | 2945X | Corner Post, 60.20" |      |
| 2           | 84371 | HCM Corner          | 1    |
| 3           | 84372 | HCM Cover           | 1    |
| 4           | 2957X | Tube Cap            | 1    |



**Tools Required**

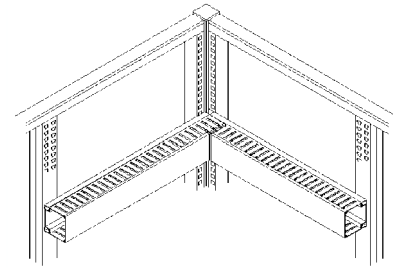
-Plastic mallet

1. Install the Right Hand **Inner Cable Management Assembly** in the desired location on the inside of the Tech Corner by inserting the hooks on each end of the assembly into the slotted standards. **DO NOT** put the covers on at this time. See **Figure 1**.

The assembly should fall directly into place. To assure that the hooks are firmly seated, tap the rear corners of the assembly with plastic mallet or equivalent tool.

2. Repeat this procedure for the Left Hand **Inner Cable Management Assembly**. See **Figure 2**.

3. Install all covers. See **Figure 3**.



Inner Cable Management

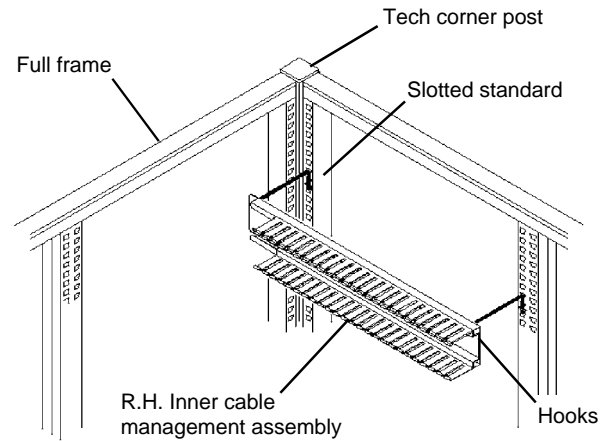


Figure 1

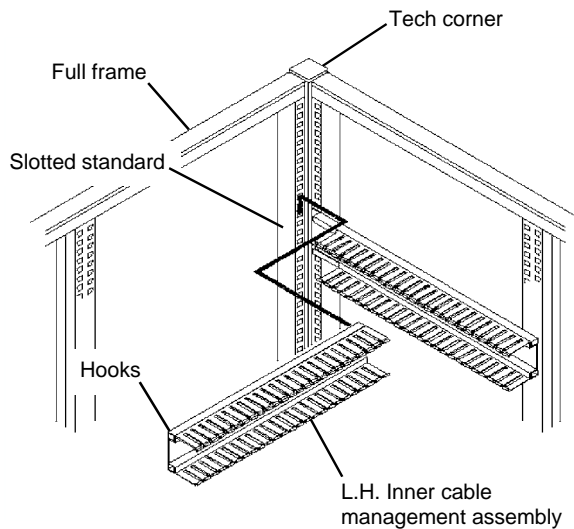


Figure 2

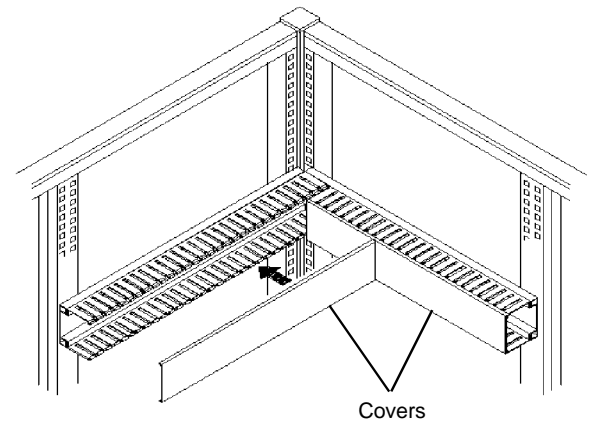


Figure 3

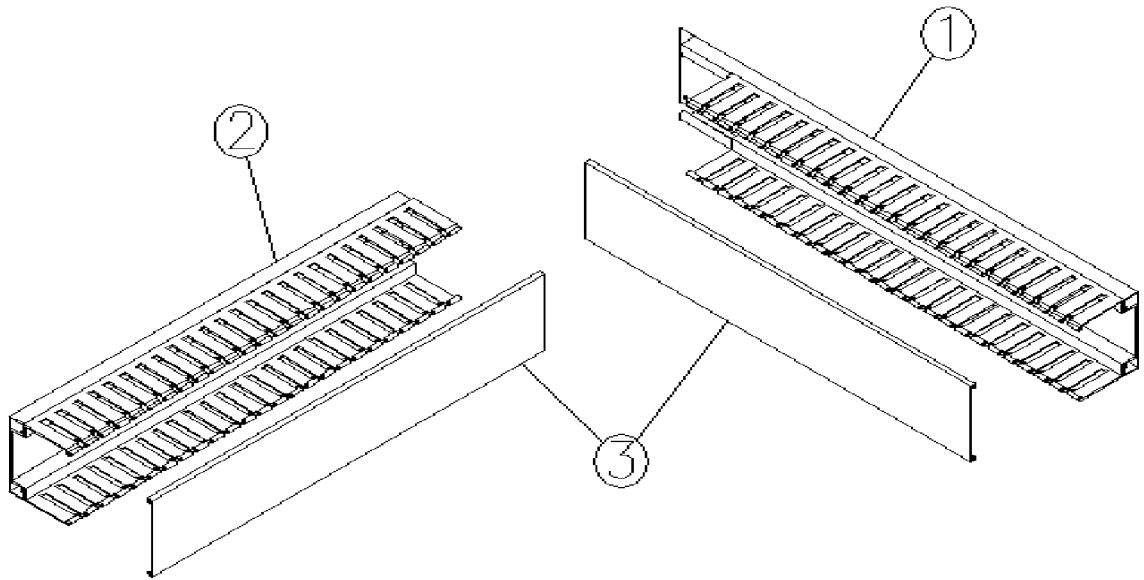


technical furniture

# Inner Cable Management (cont.)

## Parts List

| Part Number | Description                        | Qty. |
|-------------|------------------------------------|------|
| 1           | 5227X 48" Inner HCM Assembly, R.H. | 1    |
| 2           | 5226X 48" Inner HCM Assembly, L.H. | 1    |
|             | 5230X 72" Inner HCM Assembly, L.H. |      |
| 3           | 3735X 4" x 72" HCM Cover           | 1    |



# 4" x 3" Vertical Cable Management

Please read these instructions carefully and follow the installation steps in sequence.

**Tools Required**

- Plastic Mallet
- Phillips head screwdriver

**NOTE:** The 4" x 3" Vertical Cable Management is available in various lengths. (i.e. 12", 24", 36" ect.)

A minimum gap of .50" is required between the Vertical and Horizontal Cable Management, top and bottom, for a total of 1.00".

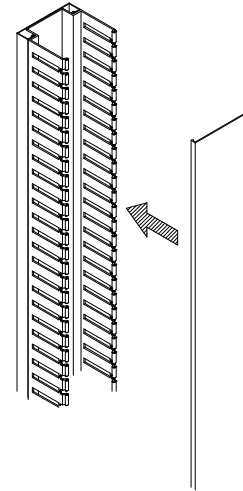
It is recommended that the Vertical and Horizontal Cable Management be installed at the same time.

If this is not possible, gaps greater than .50" (1.00" total) may be necessary. In this case, some of the Horizontal Cable Management may have to be repositioned to obtain the desired configuration.

The 4" x 3" Vertical Cable Management can only be installed on *intermediate* standards.

**INSTALLATION BETWEEN TWO HORIZONTAL CABLE MANAGEMENT SECTIONS**

1. Ensure that the total space between the two Horizontal C/M sections is a minimum of 1.00" greater than the length of the Vertical C/M section(s) being installed. Adjust as necessary. See **figure 1**.



4" x 3" Vertical Cable

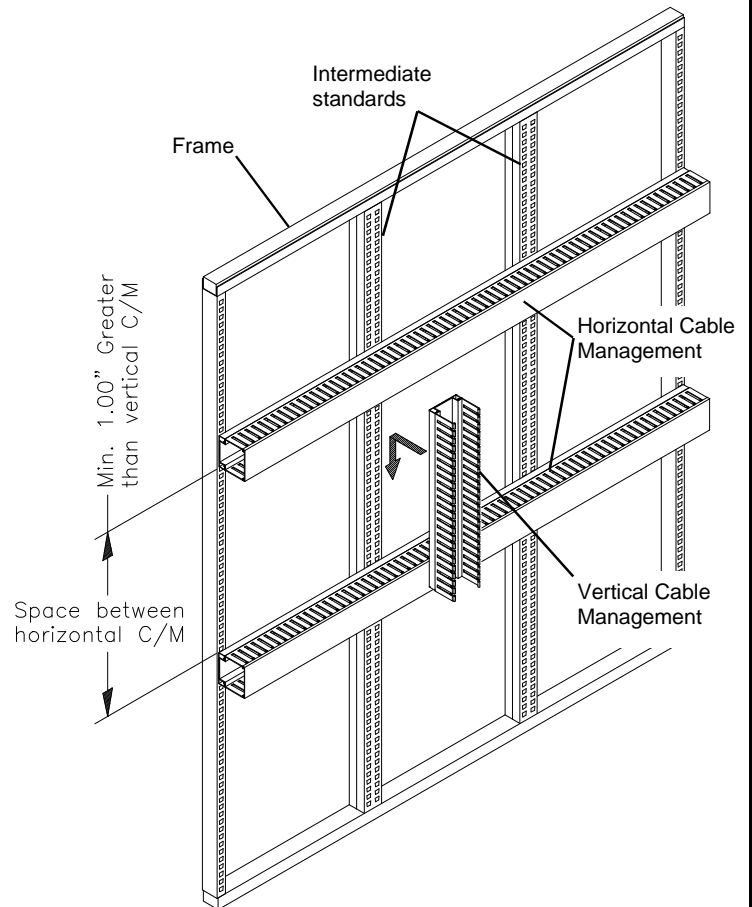


Figure 1

# 4" x 3" Vertical Cable Management (cont.)

## INSTALLATION BETWEEN TWO HORIZONTAL

2. Insert the hooks on the back of the Cable Management into the slots in intermediate standard. Ensure that the hooks are fully seated by tapping the component downward with a plastic mallet. See **figure 2**.
3. Lock the Vertical C/M in place by installing two #10-24 x 3/8" phillips pan head thread forming screws (provided). See **figure 3**.
4. Install the **Cable Retention Clip** (provided) as shown in **figure 4**.
5. To install the **Cover**, hook one side of the cover over the flanges on one side of the Cable Management. Pull the Cover over and hook it onto the opposite flanges. See **figure 5**.

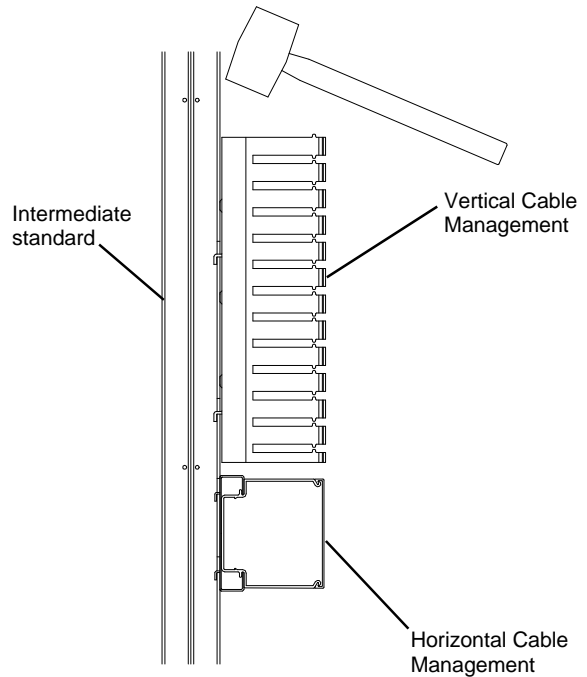


Figure 2

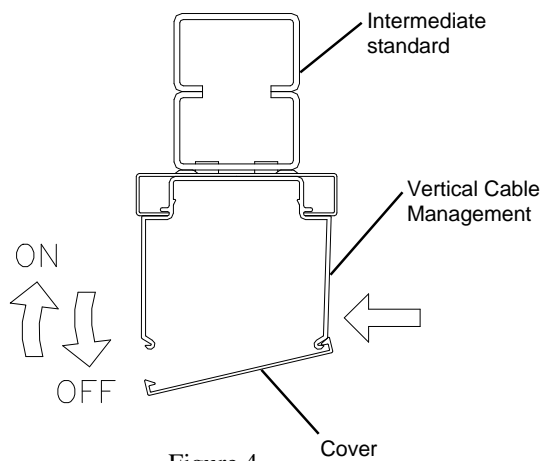


Figure 4

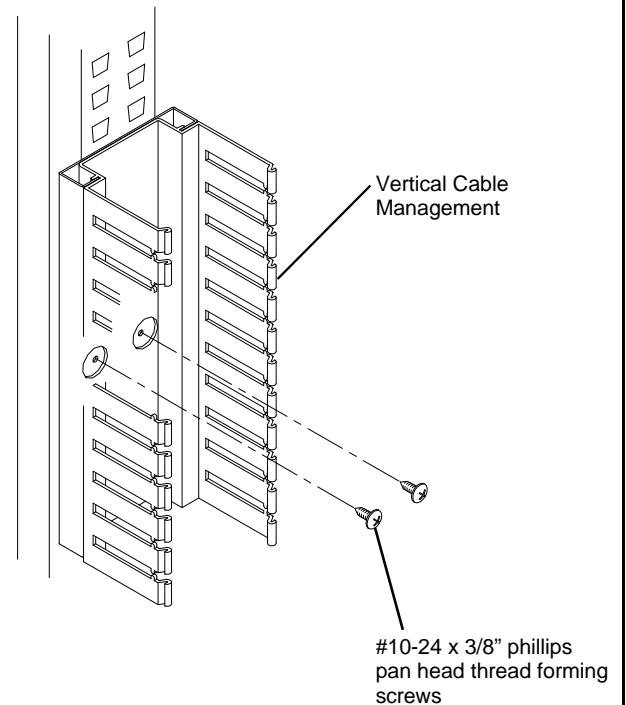


Figure 3

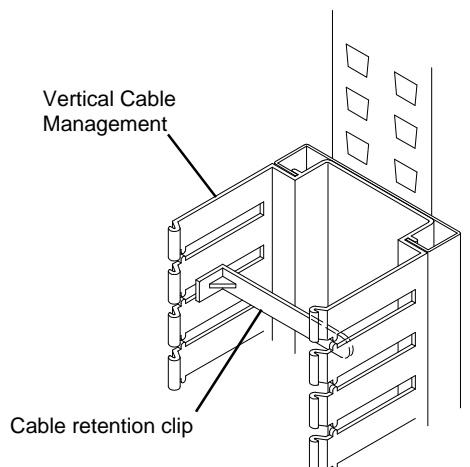


Figure 5

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# 4" x 3" Vertical Cable Management (cont.)

## INSTALLATION FOR BOTTOM CABLE FEED

1. Attach the Vertical Cable Management section to the intermediate standard. Adjust proximity to floor in 1" increments as desired. See **figure 6**.

**NOTE:** The Vertical C/M extends to within approximately 1" off the floor.

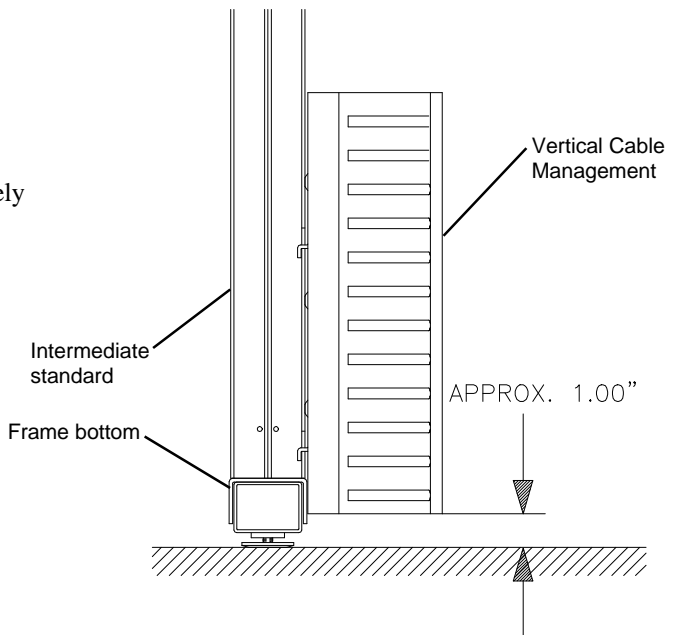


Figure 6

## INSTALLATION FOR TOP CABLE FEED

1. Attach the Vertical Cable Management to the top of the frame. Adjust in 1" increments. See **figure 7**.

| <u>Vertical C/M Length</u> | <u>Maximum Extension Above Frame</u> |
|----------------------------|--------------------------------------|
| 12"                        | .80"                                 |
| 24"                        | 12.80"                               |
| 36"                        | 24.80"                               |
| 48"                        | 36.80"                               |

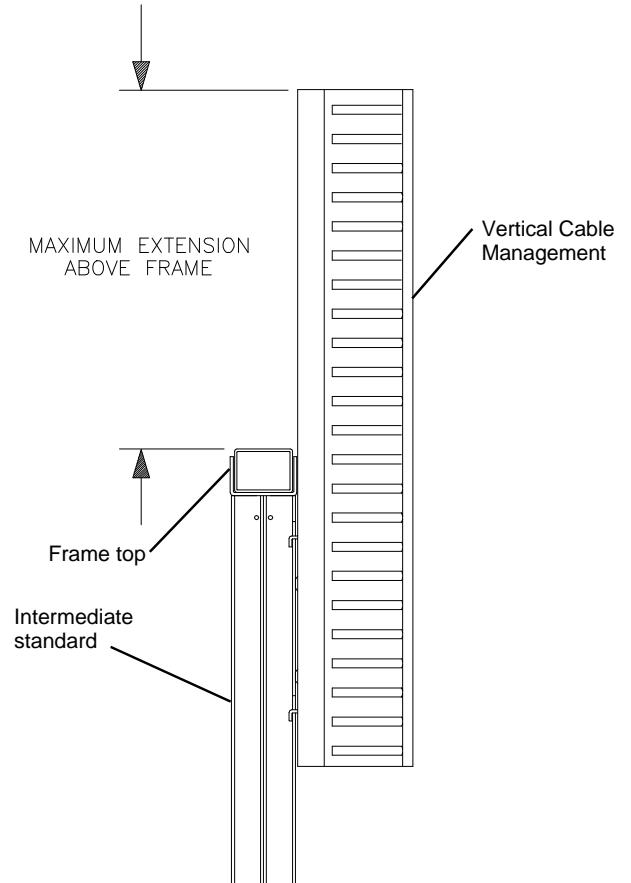
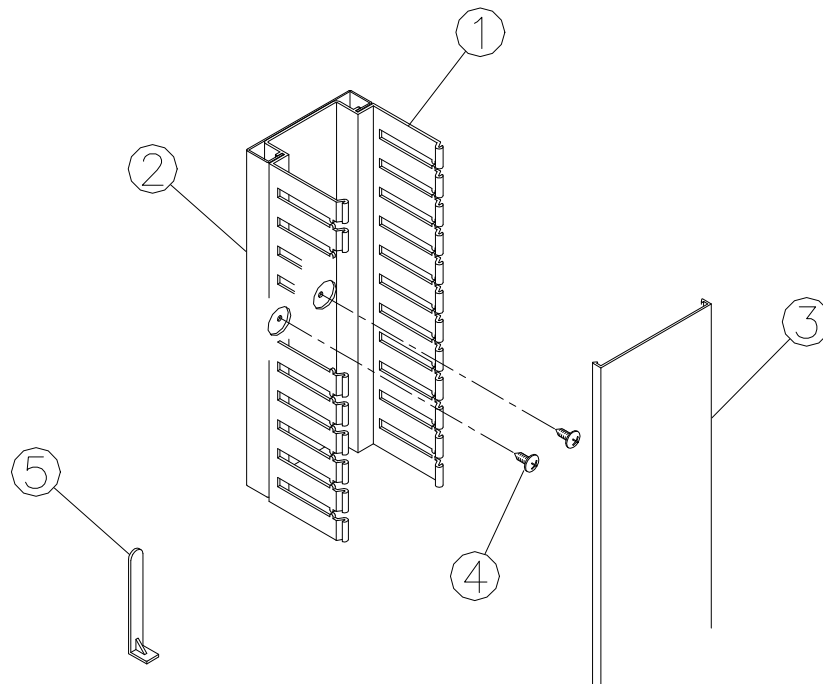


Figure 7

technical furniture

# 4" x 3" Vertical Cable Management (cont.)

| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description  | Qty. |
| <b>1</b>    | 7959X | 4" x 3" Vertical Cable Management (12")              | 1    |
|             | 7960X | 4" x 3" Vertical Cable Management (24")              |      |
|             | 7961X | 4" x 3" Vertical Cable Management (36")              |      |
|             | 7962X | 4" x 3" Vertical Cable Management (48")              |      |
| <b>2</b>    | 7955X | Rail (12")   | 1    |
|             | 7956X | Rail (24")   |      |
|             | 7957X | Rail (36")   |      |
|             | 7958X | Rail (48")   |      |
| <b>3</b>    | 7963X | Cover (12")  | 1    |
|             | 7964X | Cover (24")  |      |
|             | 7965X | Cover (36")  |      |
|             | 7966X | Cover (48")  |      |
| <b>4</b>    | 66714 | #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 2    |
| <b>5</b>    | 83824 | Cable Retention Clip                                 | 1-4  |



**Tools Required**

- Phillips Head Screw Driver
- Plastic mallet

**ATTACHING TO LMS BASIC PLUS (BACK OF UPRIGHT)**

1. The rear of the **Upright Post** has a recessed area with a row of small holes. Align the holes in the **Mounting Channel** with the Post holes and attach with the #8 screws. *Starting at the top*, snap the **Cable Management Duct** into the channel. **NOTE:** It is meant to be a tight fit, so use of a mallet and block to tap the duct in place may be necessary. Once started, continue tapping it in, moving down a few inches at a time. Next, install the **Cover(s)**. See **Figure 1**.

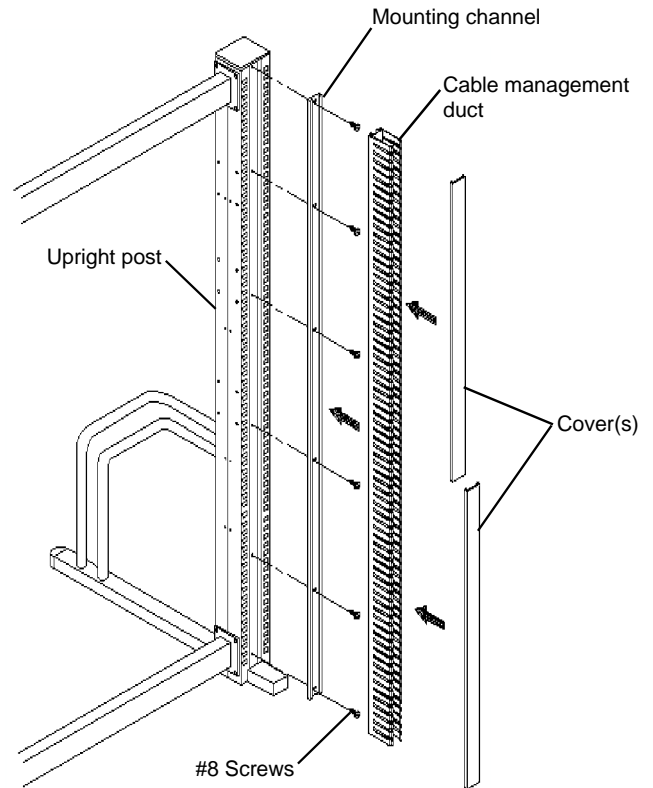


Figure 1

**ATTACHING AN INNER CABLE MANAGEMENT DUCT**

1. The inside of the **Upright Post** has two rows of small holes, one row on either side of the upright seam. Position the **Mounting Channel** as shown in **Figure 2**. Screw the Mounting Channel to the Upright Post using the #8 screws every other hole on each side. Follow the above instructions for inserting the Cable Management Duct into the Channel.

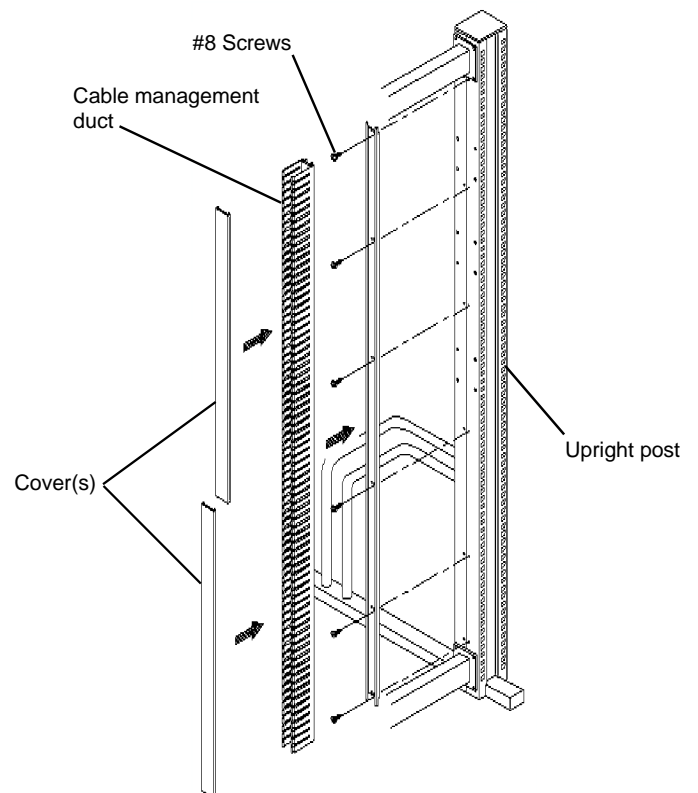


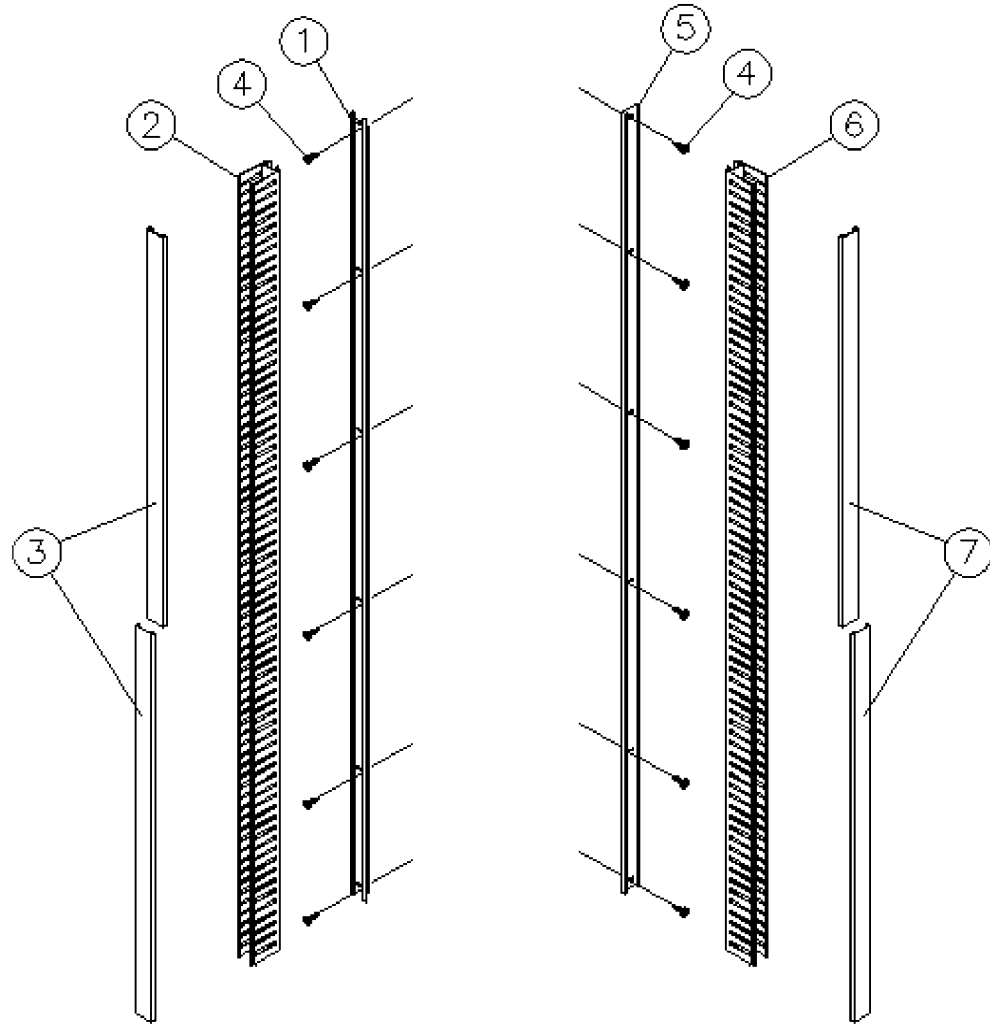
Figure 2

technical furniture

# Basic Plus Cable Management (cont.)

| <b>Parts List</b> |       |   |      |
|-------------------|-------|---|------|
| Part Number       |       | Description                               | Qty. |
| <b>1</b>          | 5899X | 72" Inner Cable Managment Duct            | 1    |
|                   | 5898X | 84" Inner Cable Managment Duct            |      |
| <b>2</b>          | 5926X | 61" Inner Vertical Cable Managment        | 1    |
|                   | 5925X | 72" Inner Vertical Cable Managment        |      |
|                   | 5924X | 84" Inner Vertical Cable Managment        |      |
| <b>3</b>          | 7666X | 61" Inner Vertical Cable Management Cover | 2    |
|                   | 7665X | 72" Inner Vertical Cable Management Cover |      |
|                   | 7664X | 84" Inner Vertical Cable Management Cover |      |
| <b>4</b>          | 66249 | #8 x 3/8" Phillips Pan Head Screw         | 12   |
| <b>5</b>          | 5904X | 61" Cable Management Duct                 | 1    |
|                   | 5903X | 72" Cable Management Duct                 |      |
|                   | 5902X | 84" Cable Management Duct                 |      |
| <b>6</b>          | 4264X | 61" Vertical Cable Management             | 1    |
|                   | 4265X | 72" Vertical Cable Management             |      |
| <b>7</b>          | 7575X | 61" Vertical Cable Management Cover       | 2    |
|                   | 7574X | 72" Vertical Cable Management Cover       |      |
|                   | 7573X | 84" Vertical Cable Management Cover       |      |

# Basic Plus Cable Management (cont.)





# LMS Basic Cable Management Kit

## Tools Required

- Phillips Head Screw Driver
- Plastic mallet

## APPLYING TO LMS BASIC

1. The rear of the **Post** has a row of small holes. Align the holes (every other hole) in the **Mounting Channel** with the Post holes and attach with the #8 screws. **Starting at the top**, snap the **Cable Management Duct** into the channel. **NOTE:** It is meant to be a tight fit, so use of a mallet and block to tap the duct in place may be necessary. Once started, continue taping it in, moving down a few inches at a time. See **Figure 1**.

2. Install the **Cover(s)**.

## TO FULL FRAME

1. This kit can be used to apply **Vertical Cable Management** to unused portions of the **Intermediate Standards** (double rows of slots). It can also be cut into smaller pieces and applied between components. Attach the Mounting channel with double sided tape. See **Figure 2**.

**CAUTION!** Once applied, do not remove and re-stick the tape. The bond strength diminishes greatly.

2. Remove the protective paper from one side and apply four (84" units) pieces of tape to the Mounting Channel first. Then, remove the remaining protective paper from the tape and starting from one end, carefully stick the channel to the standard. Snap the duct into place as described above. See **Figure 2**.

3. Install the **Cover(s)**.

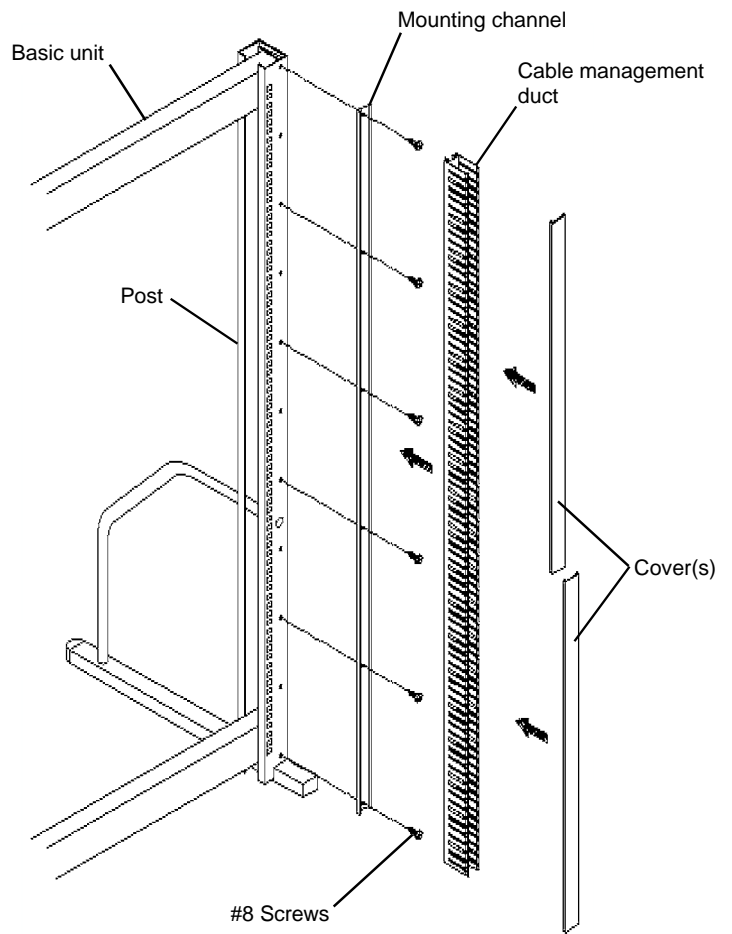


Figure 1

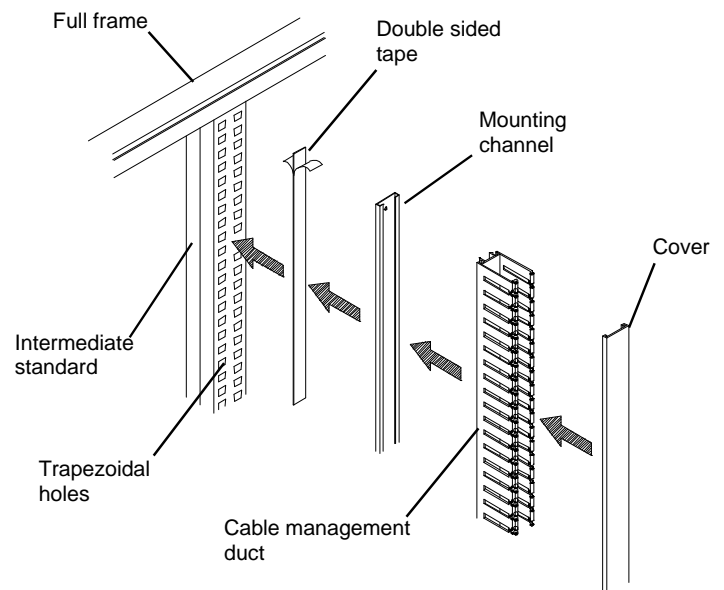


Figure 2

# LMS Basic Cable Management Kit (cont.)

## LA34-MM CABLE STRAP, SET OF 25

1. These **Cable Ties** can be screwed (recommended) to the rear of the LMS Basic Vertical Posts, using the small vertical holes, or Cable ties can be attached to the rear of Tower and Electronic shelves. Screwing it on provides easy removal for relocation.
2. Screw the **Wire Tie Base** to the Post, leaving the bonding tape and protective paper in place for future use. Cut the center of the tape so the screw easily passes through.
3. Slip the **Wire Tie** through the slots on the base and it's ready to use.

If you choose to adhere the Wire Tie Base, be sure the orientation is correct for the tie, remove the protective paper, and stick it on.

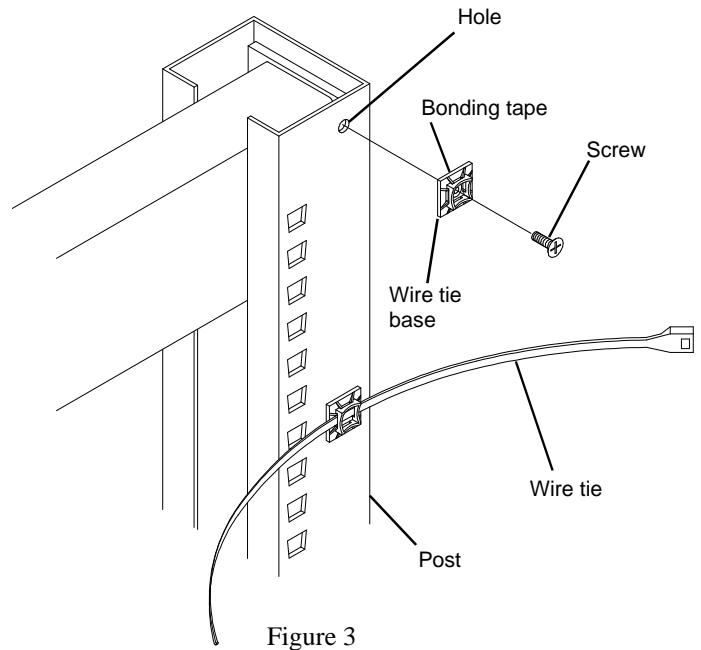


Figure 3

Tower or Electronics shelf

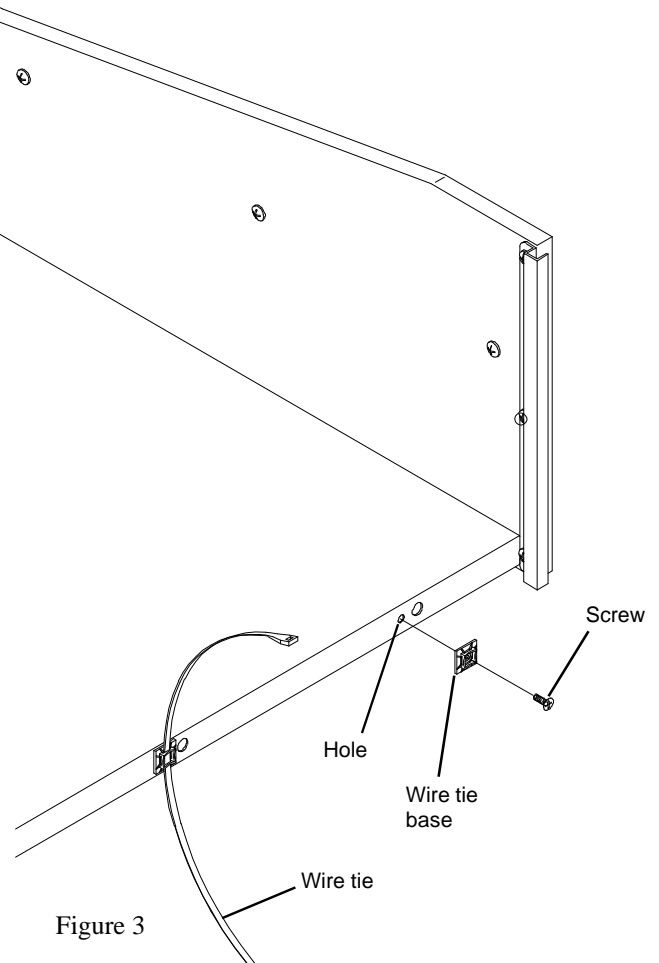
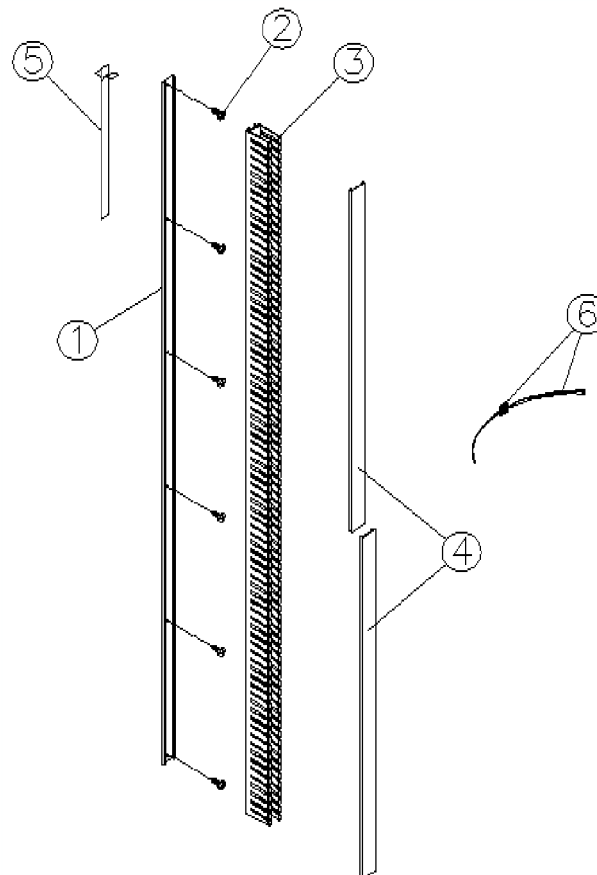


Figure 3

technical furniture

# LMS Basic Cable Management Kit (cont.)

| Parts List  |       |                                   |      |
|-------------|-------|-----------------------------------|------|
| Part Number |       | Description                       | Qty. |
| <b>1</b>    | 5902X | Cable Managemnt Duct, 84"         | 2    |
|             | 5903X | Cable Managemnt Duct, 72"         |      |
|             | 5904X | Cable Managemnt Duct, 61"         |      |
| <b>2</b>    | 66249 | #8 x 3/8" Phillips Pan Head Screw | 12   |
| <b>3</b>    | 3726X | Vertical Cable Management, 81.84" | 2    |
|             | 4265X | Vertical Cable Management, 69.84" |      |
|             | 4264X | Vertical Cable Management, 58.84" |      |
| <b>4</b>    | 7573X | Cover, 40.90"                     | 4    |
|             | 7574X | Cover, 34.90"                     |      |
|             | 7575X | Cover, 29.40"                     |      |
| <b>5</b>    | 81120 | Tape, VHB Strip 1" x 18" #4950    | 4    |
| <b>6</b>    | LA34- | Cable Strap                       | 1    |

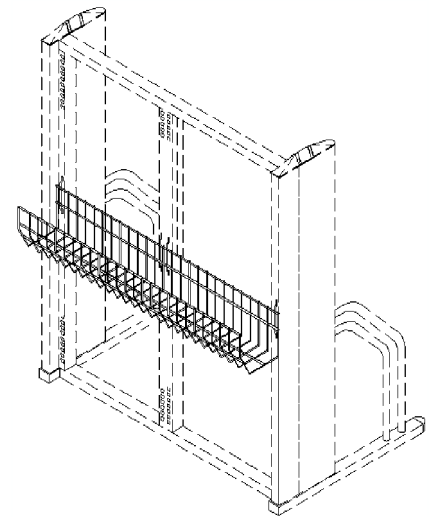


**Tools Required**

-Phillips head screwdriver

**INSTALLATION OF THE CABLE TROUGH**

1. To install the **Cable Trough**, insert the wire tabs located at the top of the Trough into the trapezoid holes in the Full Frame. With both sets of tabs in the holes, push the Trough down. Secure using the #10-24 Machine screws provided. See **Figure 1**.
2. Install one **Cross Tie** at each end of the Trough and equally spaced in the center. Longer sections may have multiple Cross Ties in the middle. See **Figure 2**.



Cable Trough

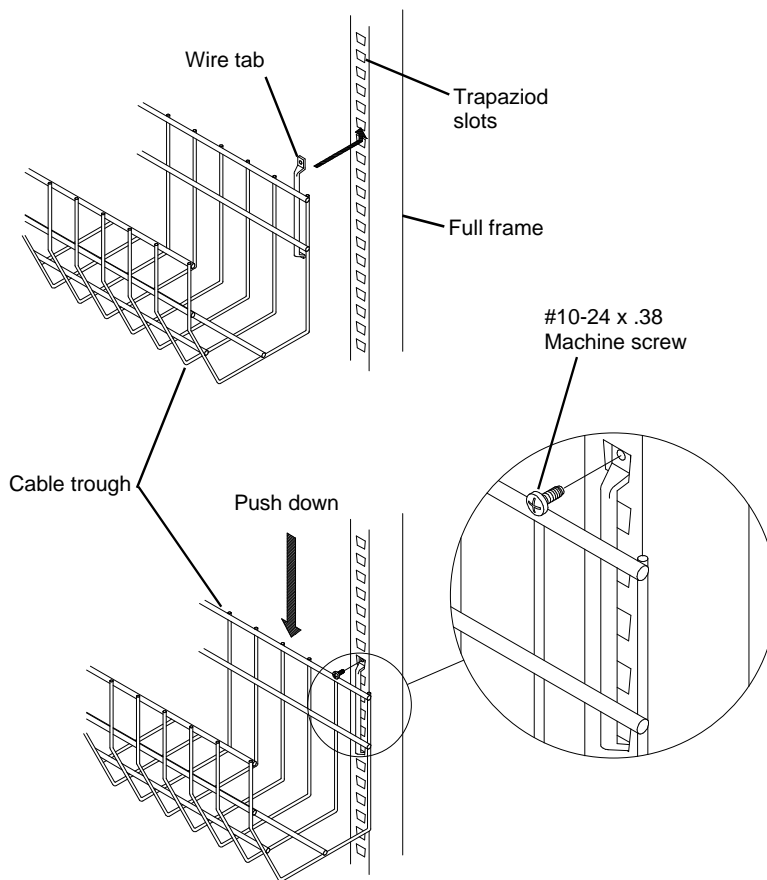


Figure 1

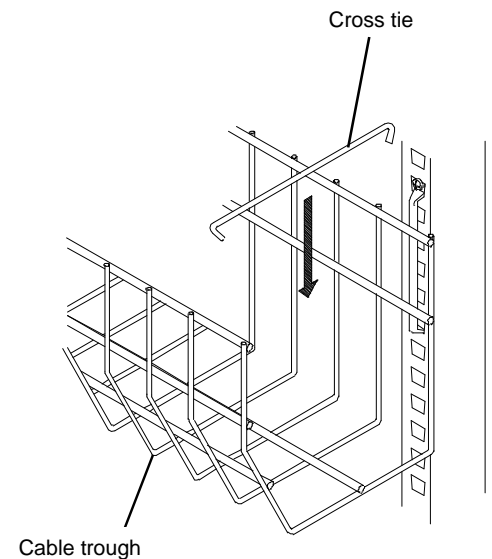


Figure 2

# Cable Trough Cable Management ( c o n t . )

## INSTALLATION OF THE CABLE TROUGH CORNER

The **Cable Trough Corner** is required when using the Cable Trough in conjunction with a Tech Corner configuration. The Cable Trough Corner is meant to go on the outside of the configuration.

1. To install the Cable Trough Corner, the Cable Trough sections must first be installed, without the Cross Ties, at the same height. From the top, place the corner section inside the straight sections. Gently pull back on the outside of the straight sections and push the Trough Corner into place. Release the straight sections. Secure using the two clamps and screws. See **Figure 3**.

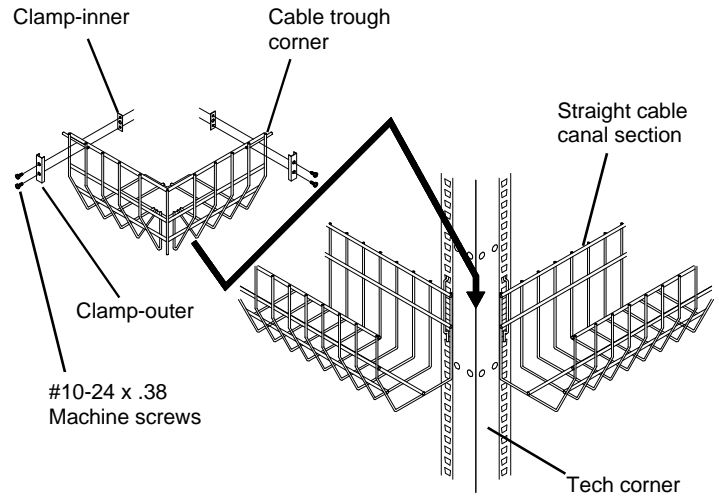


Figure 3

2. Install the Cross Ties (refer to previous page).

## INSTALLATION OF THE END PANEL

1. The Cable Trough must first be installed without the Cross Ties. Identify the right **End Panel** by holding the panel in front of you so the angled side points to your left. The vertical wires should be facing you. From above, install the right End Panel by sliding it down into the Cable Trough. The top horizontal bar should be resting on top of the Cable Trough. Install the left End Panel in the same manor. See **Figure 4**.

The End Panel will take the place of the end Cross Ties. Install the remaining Cross Ties ( refer to previous page).

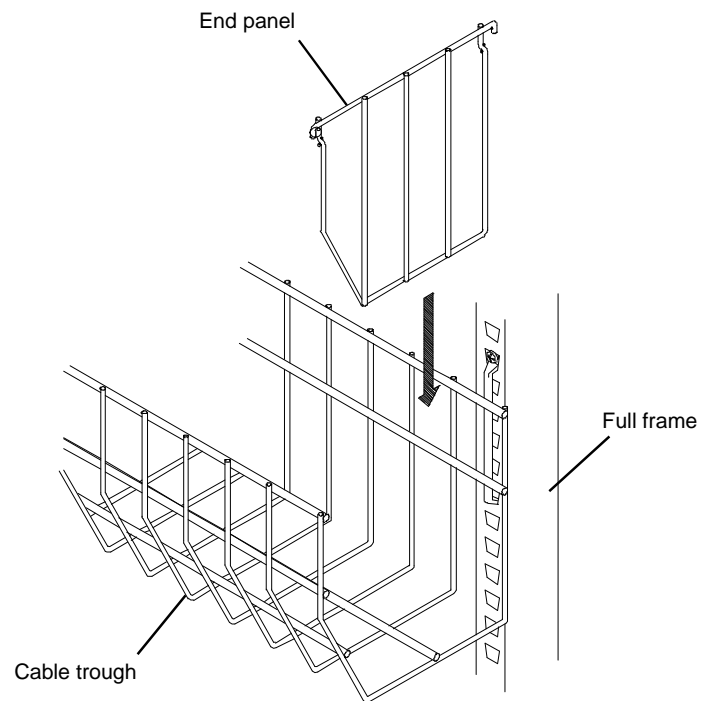


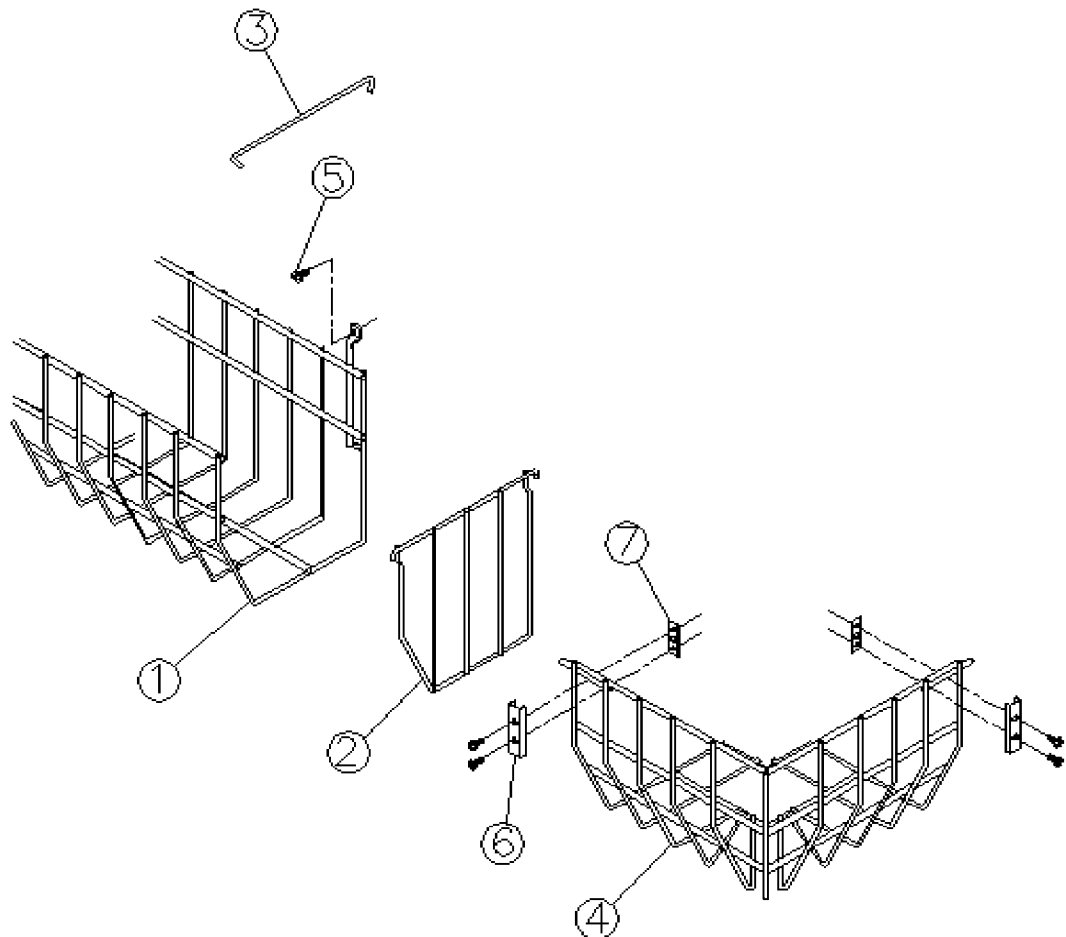
Figure 4

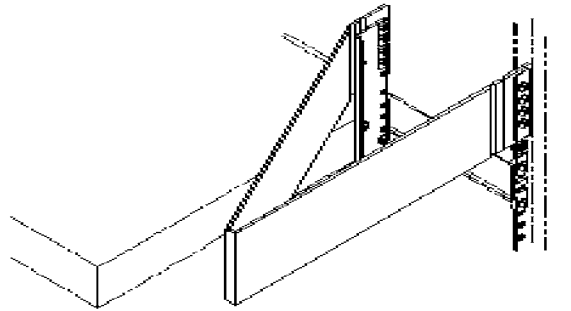
technical furniture

# Cable Trough Cable Management ( c o n t . )

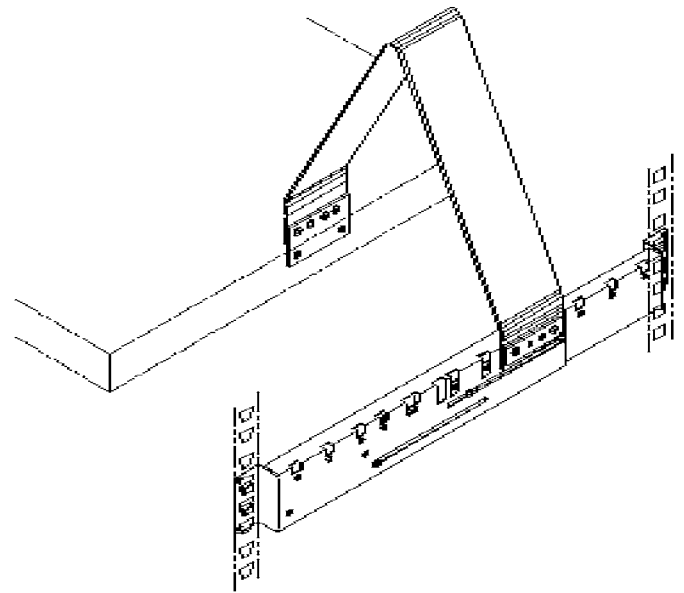
| Parts List  |             |                         |   |
|-------------|-------------|-------------------------|---|
| Part Number | Description | Qty.                    |   |
| <b>1</b>    | 83304       | Cable Trough, 24"       | 1 |
|             | 83305       | Cable Trough, 30"       |   |
|             | 83306       | Cable Trough, 36"       |   |
|             | 83308       | Cable Trough, 48"       |   |
|             | 83309       | Cable Trough, 60"       |   |
|             | 83310       | Cable Trough, 72"       |   |
|             | 83311       | Cable Trough, 72" 36/36 |   |

| Parts List  |             |  |     |
|-------------|-------------|--|-----|
| Part Number | Description | Qty.   |     |
| <b>2</b>    | 83313       | End Panel, R.H.                                      | 1   |
|             | 83314       | End Panel, L.H.                                      |     |
| <b>3</b>    | 83315       | Cross Tie  | 2-4 |
| <b>4</b>    | 83312       | Corner   | 1   |
| <b>5</b>    | 66714       | #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 8   |
| <b>6</b>    | 83849       | Outer Clamp  | 2   |
| <b>7</b>    | 83850       | Inner Clamp  | 2   |





Horizontally Oriented  
Cable Management Arm



Vertically Oriented  
Cable Management Arm

## CABLE MANAGEMENT ARMS:

\* Vertically oriented **Cable Management Arms** are available in two styles:

1. LA35-MM may be attached to 12", 24", 30", 48", 60" and 72" Tower Roll-out shelves, all Rack Mount Roll-out shelves, and all LAN Locker II Bottom Roll-out shelves. This Cable Management kit includes an adjustable bracket for attachment to 24"/30" LMS Frame Modules and Rack Mount Rails.
2. LA38-MM may be attached to 36" Tower Roll-out shelves when installing on LMS Frames with 36" Modules.

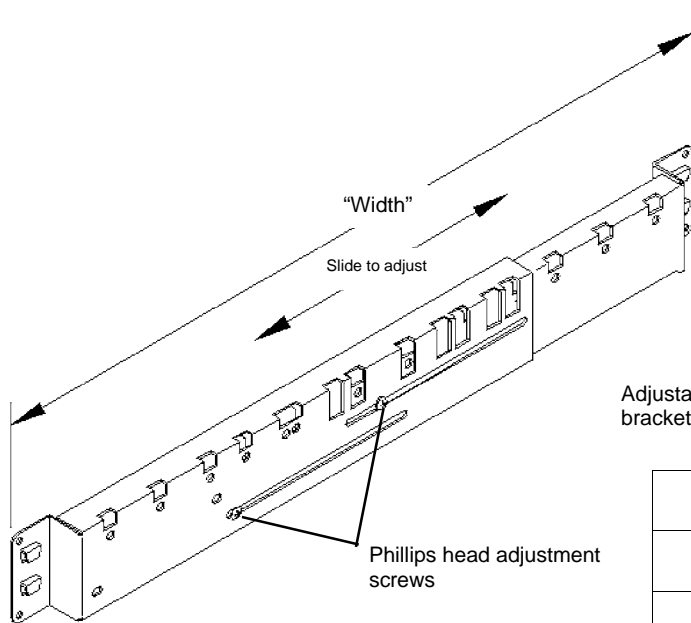
\*Note: 36" Tower Roll-outs manufactured before 10/97 may not have the appropriate cable mounting holes, in which case drilling may be required.

\* Item LA36-MM may be attached to Rack Mount Roll-out shelves only in a horizontal orientation. LA36-MM Horizontal Cable management Arm kits can also be installed in a vertical orientation to existing horizontal cable arm brackets. (Extra brackets included with the kit may be discarded.)

## Tools Required

- Phillips head screwdriver
- Electric drill (optional)
- #19 Drill bit (optional)

# Cable Management Arm (cont.)



Adjustable frame bracket

| "Width"           | Application   |
|-------------------|---|
| 23.79"(23-25/32") | 24" Full Frame model                                |
| 29.79"(29-25/32") | 30" Full Frame model                                |
| 18.79"(18-25/32") | 19" Rack Mount Module<br>(Remove adjustment screws) |
| 23.79"(23-25/32") | 24" Rack Mount Module                               |

Figure 1

## VERTICAL CABLE MANAGEMENT ARM

1. Loosen the two Phillips head screws on the **Adjustable Frame Bracket**. See **Figure 1**. (*The Adjustable Frame Bracket may be attached to 19" and 24" rack mount rails or to any 24" and 30" Full Open Frame module. If the Frame Bracket is being mounted to rack mount rails spaced at 19", the screws must be removed.*) Referring to **Figure 1**, slide the inner and outer members of the Frame Bracket to the appropriate width for your application.
2. If you are installing the Frame Bracket onto rack mount rails, four **Clip Nuts** (two per rail) must be snapped onto the rails as shown in **Figure 2**. If the Bracket is being installed onto a Full Frame, proceed to step 3.

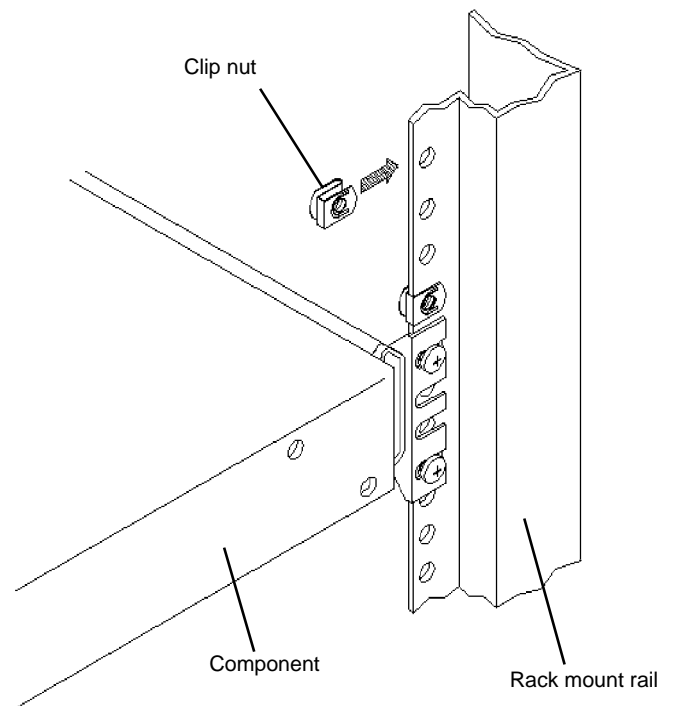


Figure 2



# Cable Management Arm (cont.)

3. Attach the Frame Bracket by either screwing it to the Clip Nuts on the rack mount rails **OR** by hooking it onto the slotted Full Frame. If the Bracket is being installed onto the Full Frame, it must be positioned as close as possible to the roll-out surface. See **Figure 3**. After the Frame Bracket has been installed, re-tighten the two Phillips head adjustment screws.

4. The vertically oriented **Plastic Cable Arm** may be attached to either the center, left side, or right side of the roll-out. Roll-out shelves manufactured before June 1995 may not have the appropriate holes that are required to mount the Cable Arm Bracket and may require drilling. (Mark the appropriate hole locations for either left, center, or right mounting on the rear flange of the roll-out shelf and drill with a #9 [.166" dia.] drill bit. Refer to **Figure 4**).

5. Having determined your desired position, identify the the appropriate two mounting holes in the Frame Bracket that are in alignment with the desired mounting holes in the back of the roll-out.

Install two Clip Nuts onto the Frame Bracket, orienting them as shown in **Figure 5**.

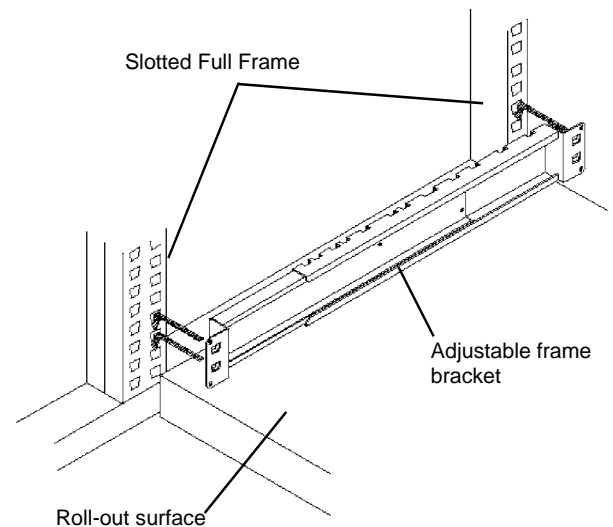
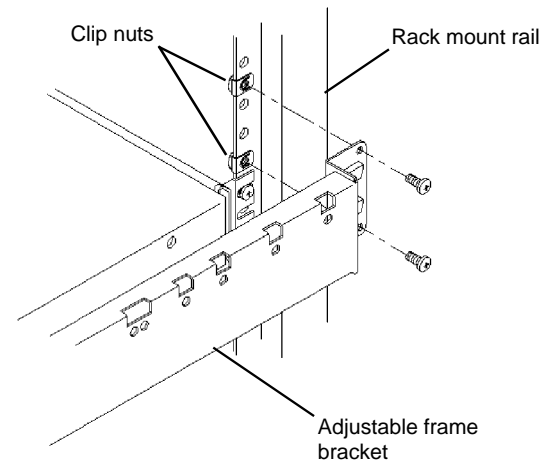


Figure 3

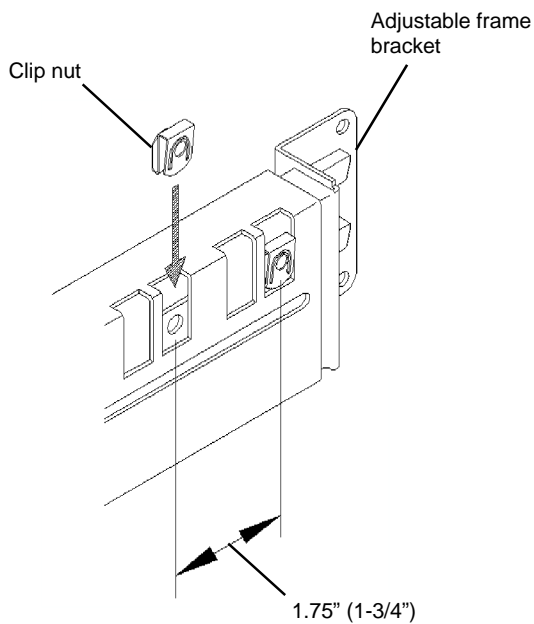


Figure 5

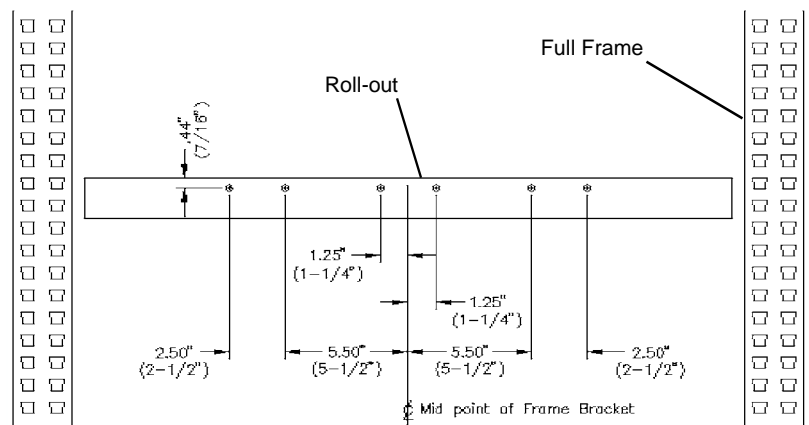


Figure 4  
Rear view of roll-out

# Cable Management Arm (cont.)

6. Attach the Cable Arm Bracket to the back of the roll-out using two #10 x 3/8" Phillips flat head self tapping screws. See **Figure 6**.
7. Now attach the free end of the Cable Arm to the Frame Bracket as shown in **Figure 6**.
8. If the Cable Arm does not stand vertically when the roll-out is retracted, loosen the four screws that attach the arm to the Roll-Out Bracket and adjust the arm as required until you achieve the desired closed position.
9. Four **Cable Ties** are provided to secure cabling to the Cable Arm.

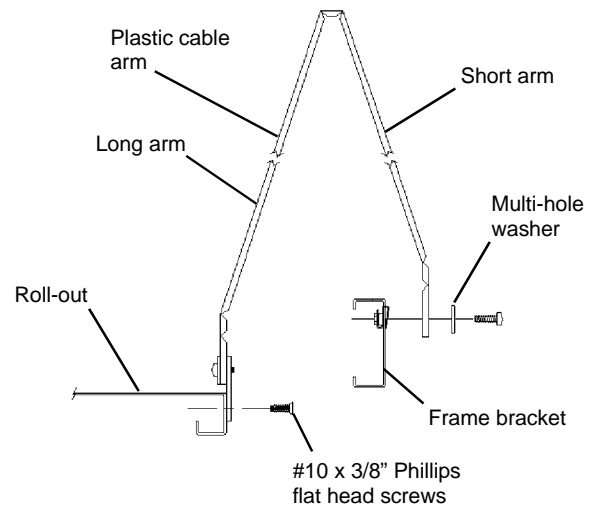


Figure 6

## HORIZONTAL CABLE MANAGEMENT ARM

*Horizontal Cable Arms may be attached to either the right side or the left side of rack mounted roll-outs. The illustrations in these instructions show a right hand installation (as viewed from behind the roll-out).*

1. Roll-out shelves manufactured before June 1995 may not have the appropriate holes that are required to mount the Roll-Out Bracket and may require field drilling. (Mark the two hole locations on the rear flange of the roll-out shelf and drill with a #19 [.166" dia.] drill bit. Refer to **Figure 7**).
2. Mount the Roll-Out Bracket to the rear flange of the roll-out using two #10-24 x 3/8" Phillips pan head self tapping screws. See **Figure 8**.

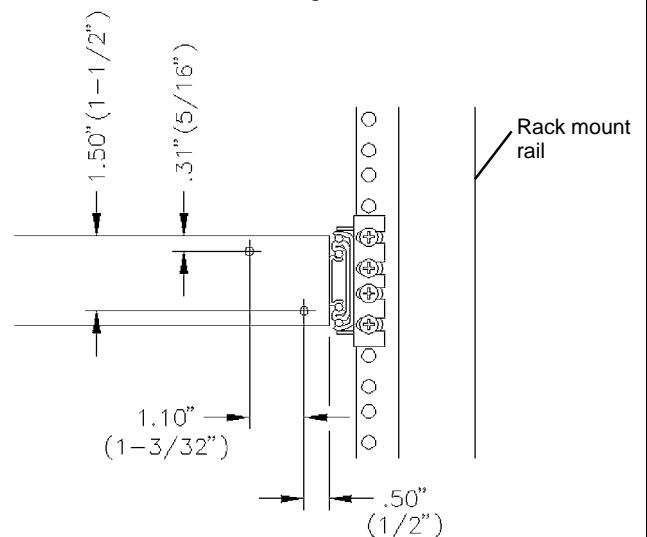


Figure 7  
Rear view of roll-out

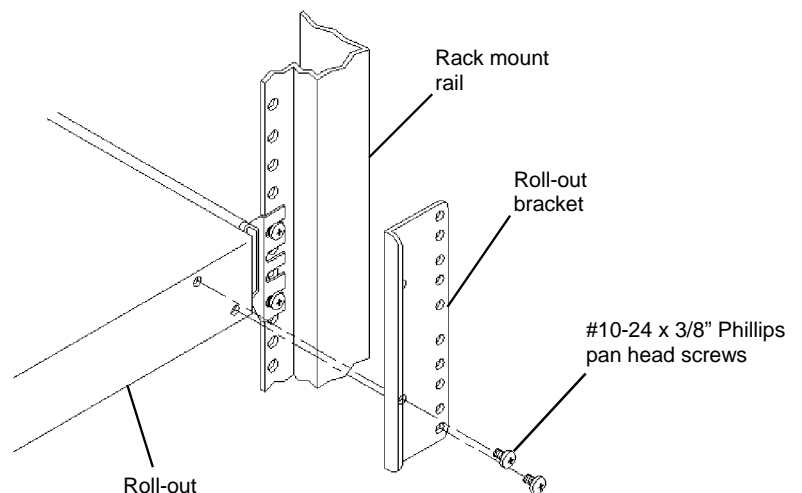


Figure 8

# Cable Management Arm (cont.)

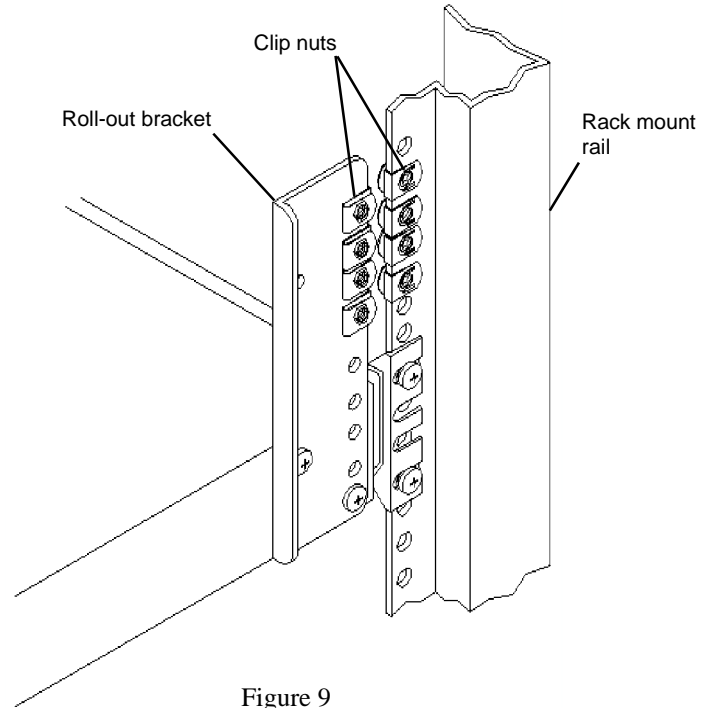


Figure 9

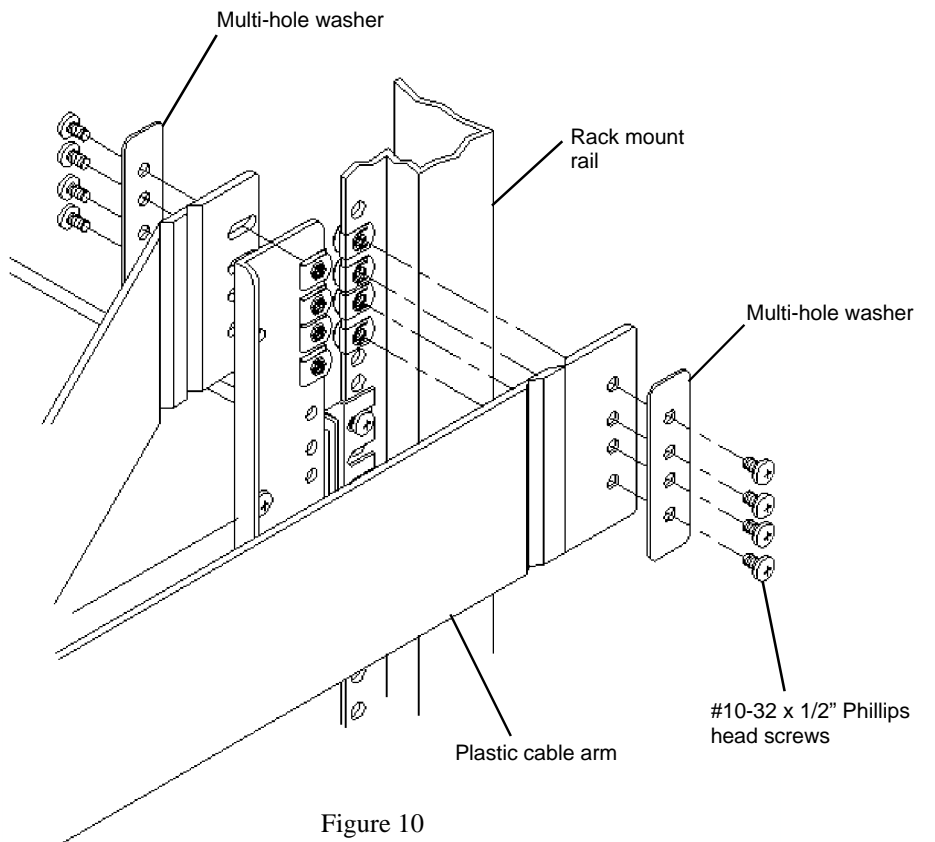
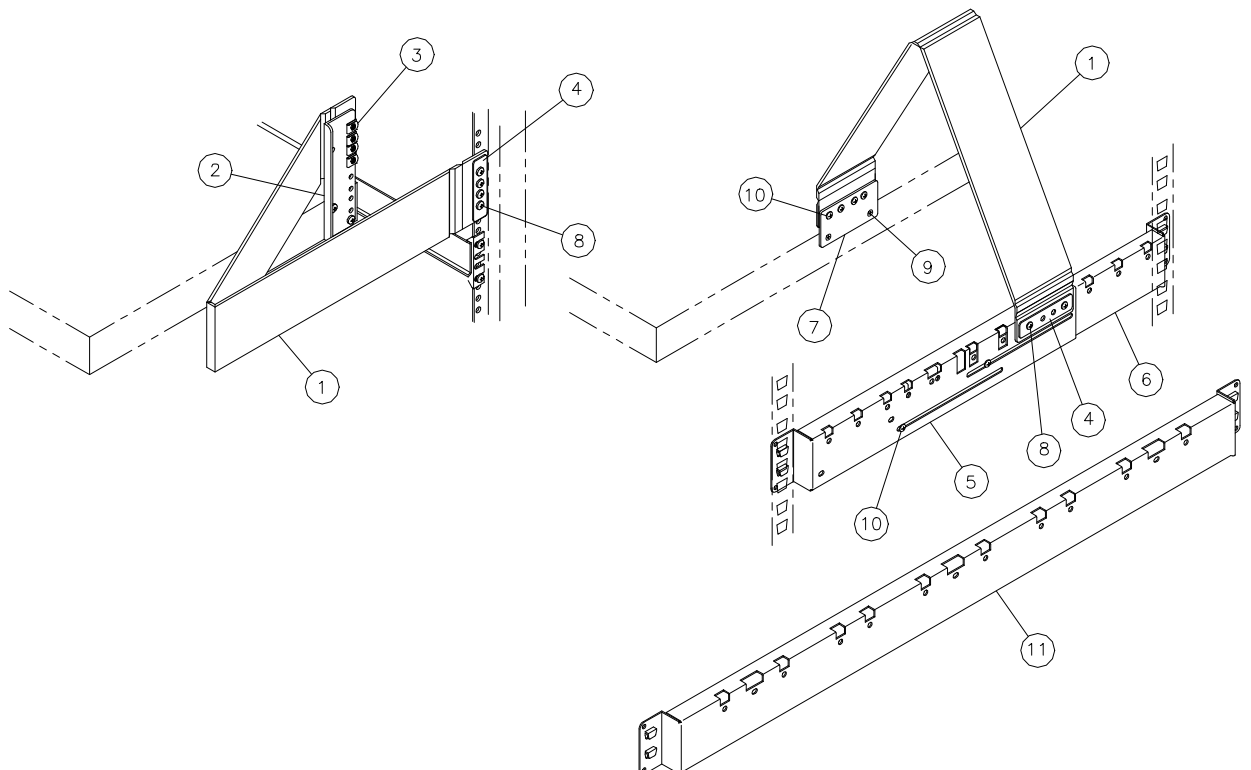


Figure 10

# Cable Management Arm (cont.)

## Parts List

| Part Number | Description   | Vertical Cable Management Arm Kit #LA35-MM | 36"W Vertical Cable Management Arm Kit #LA38-MM | Extra Cable Management Arm #LA36-MM |
|-------------|---|--|---|-------------------------------------|
| <b>1</b>    | 83108 Cable Arm   | 1  | 1   | 1                                   |
| <b>2</b>    | 3603X Roll-Out Bracket                                      | 0  | 1   | 1                                   |
| <b>3</b>    | 82087 #10-32 Clip Nut                                       | 0  | 8   | 8                                   |
| <b>4</b>    | 3604X Multi Hole Washer                                     | 2  | 2   | 1                                   |
| <b>5</b>    | 3601X Outer Bracket   | 1  | 0   | 0                                   |
| <b>6</b>    | 3600X Inner Bracket   | 1  | 0   | 0                                   |
| <b>7</b>    | 3602X Roll-Out Bracket                                      | 1  | 0   | 1                                   |
| <b>8</b>    | 82031 #10-32 x 1/2" Phillips Pan Head Machine Screw         | 0  | 8   | 8                                   |
| <b>9</b>    | 82555 #10-24 x 1/2" Phillips Flat Head Thread Forming Screw | 0  | 0   | 2                                   |
| <b>10</b>   | 66714 #10-24 x 3/8" Phillips Pan Head Thread Forming Screw  | 6  | 0   | 6                                   |
| <b>11</b>   | 7408X 36" Vertical C/M Bracket                              | 0  | 1   | 0                                   |
| <b>12</b>   | 83110 Cable Tie (not shown)                                 | 4  | 4   | 4                                   |



**Tools Required**

- Electric drill
- .149" Drill bit
- Phillips head bit or screwdriver
- Center punch

**HORIZONTAL INSTALLATION**

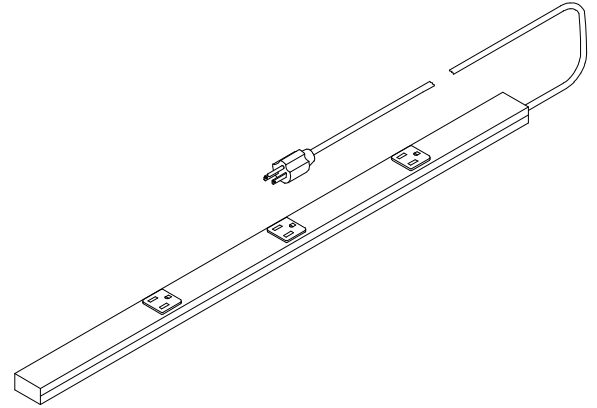
1. Install the **Mounting Clip** onto the **Base Plate** by first slipping one end of the Clip under the tab marked "X" on the Plate. Force the Clip under the tab as far as possible; the other end of the Clip will then be able to slip under the opposite tab. See **Figure 1**.

**NOTE:** It may be necessary to pry the "X" tab open slightly by lifting the free end of the Clip. Do not pry the tab open more than necessary for the Clip to slip under the other tab.

2. Attach the Mounting Clip/Plate assemblies to the Power Strip by placing the two assemblies on a flat surface with the following distances between them:

|                         |             |
|-------------------------|-------------|
| 24"(610mm) Power Strip  | 16"(406mm)  |
| 40"(1016mm) Power Strip | 32"(813mm)  |
| 60"(1524mm) Power Strip | 48"(1219mm) |

Next, install the Power Strip into the Clips by engaging one side of the Strip with the Clips and then pushing down to engage the other side. See **Figure 2**. Be sure that the Power Strip is firmly seated in each Clip.



Low Profile Power Strip

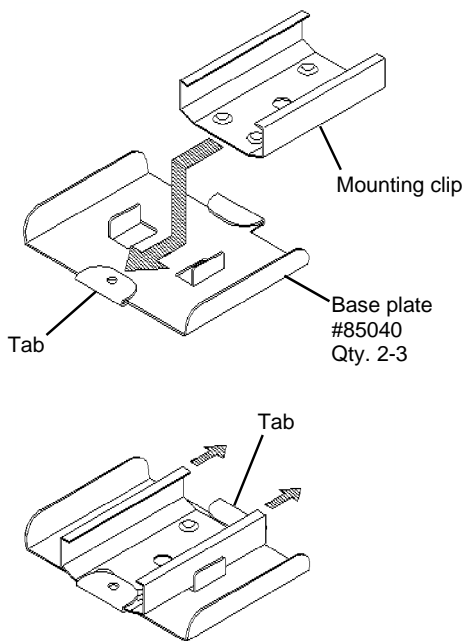


Figure 1

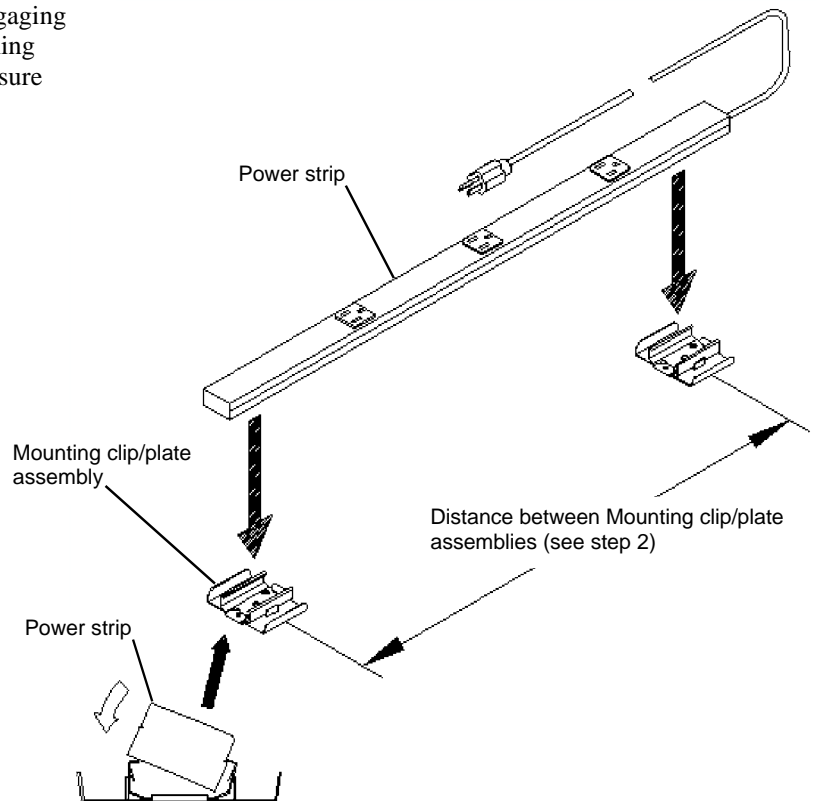


Figure 2

3. Install the Power Strip assembly into the Cable Management Component as shown in **Figure 3**. The Mounting Clip/Plate assembly will snap into place at the bottom of the Component as shown in **Figure 3** (detail).

**NOTE:** If the Base Plates do not snap into place easily, simply push harder. If they are too loose and do not stay in place, it is possible to tighten the fit of the Base Plates by bending the “wings” of the Base Plates outward.

The Power Strip can slide to any position along the length of the Cable Management Component.

4. To remove the Power Strip, slide it out of the end of the Cable Management Component.

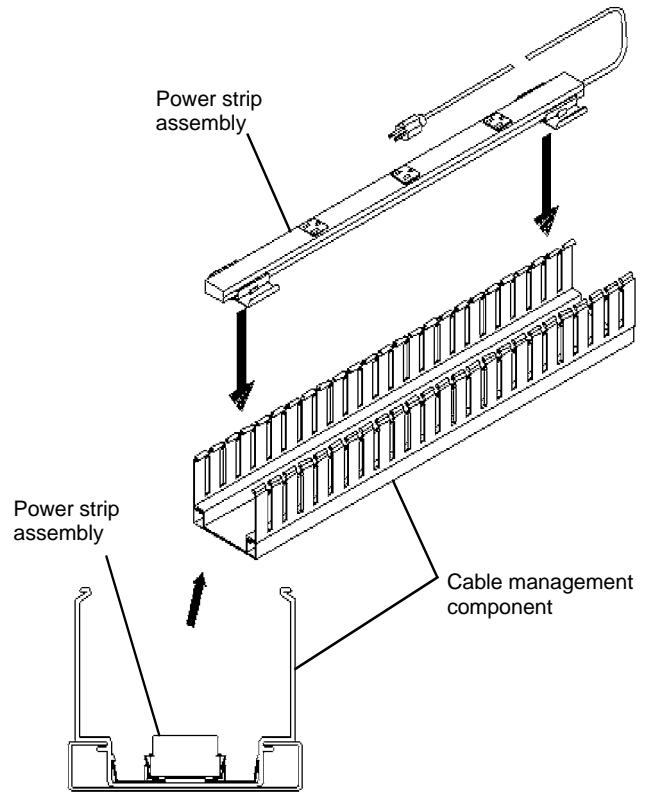


Figure 3

## VERTICAL INSTALLATION

The Power Strip can be mounted on any vertical frame member of a Full/Open Frame, Rack Mount Module or LAN Locker II. Installation on all vertical frame members is the same with two possible installation scenarios outlined below.

1. Position a Mounting Clip at its highest location, centered on the **Double Standard**, and mark this point with a center punch. To position the second Clip, refer to step 2, page\_ for the correct location. See **Figure 4**.
2. Drill two holes in the Double Standard and attach the Mounting Clips with the #8-32 Screws provided. See **Figure 4**.

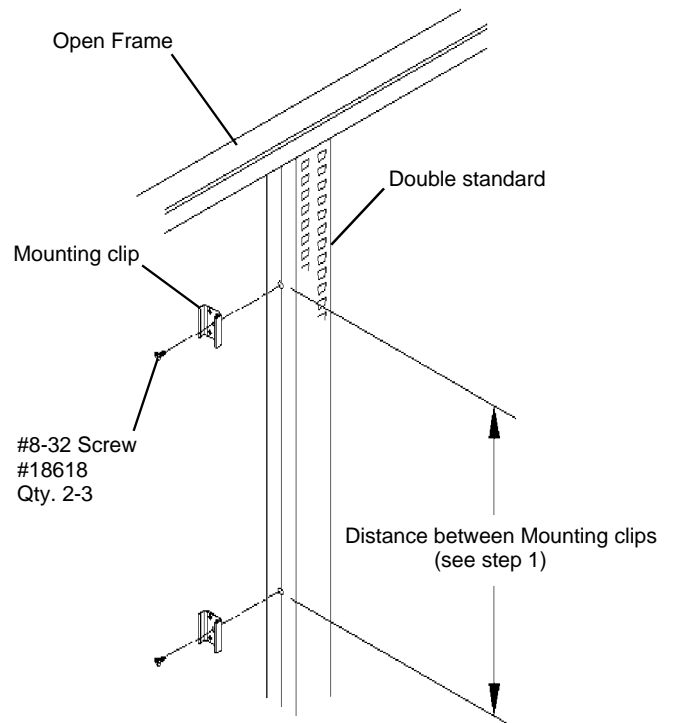


Figure 4

3. Next, install the Power Strip into the Clips by engaging one side of the Strip with the Clips and the pushing down to engage the other side. See **Figure 5**. Be sure that the Power Strip is firmly seated in each Clip.

4. The Mounting Clips attach to the **Single Standard** in same manner as as the Double Standard. But since there is no feature on the Single Standard that denotes its center, care must be taken to ensure that the Mounting Clips are centered on the Single Standard and that they do not interfere with the Upright or Side Frame screws. See **Figure 6**.

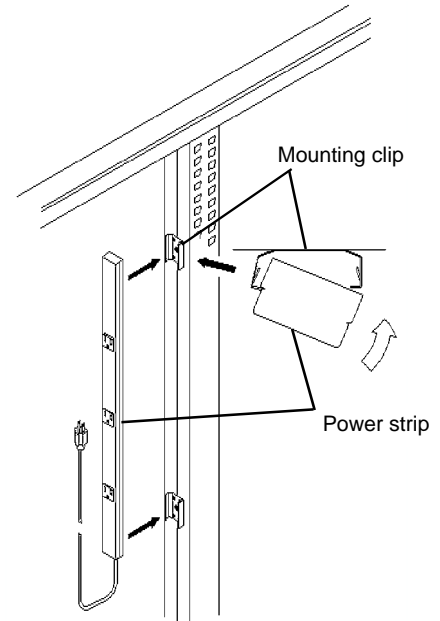


Figure 5

### INSTALLATION ON OTHER SURFACES

One or more 1" x 18" strips of **3M Double Faced Adhesive Tape** has been provided for installation of the Power Strip to any flat surface.

1. Clean the back side of the **Power Strip** and the mounting surface with Isopropyl alcohol or equivalent surface cleaner.

**Note:** It is recommended that the position of the Power Strip be determined **before** attaching the Power Strip to a surface to avoid misaligning the strip and ruining the tape.

2. Remove the green and white backer from one side of the tape strip. Center or equally space the tape on the back of the Power Strip. Press firmly into place. See **Figure 7**.

3. Remove the remaining white backer from the tape strips.

4. Position the Power Strip on the surface.

5. The Horizontal Cable Management provides approximately three inches of space for cables or electrical plugs.

6. To ensure proper adhesion, do not apply a load to the Power Strip for 24 hours.

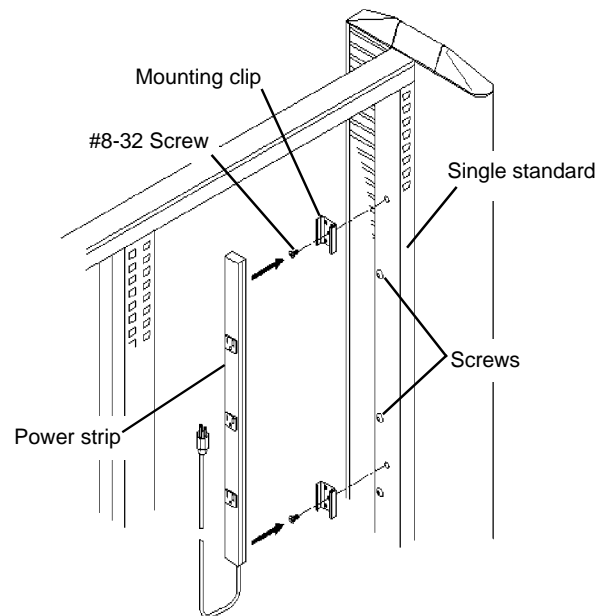


Figure 6

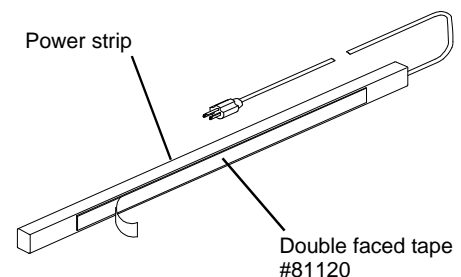


Figure 7

# 20 Amp Power Strip

## Tools Required

- Power drill
- .149 inch drill bit
- Philips head bit or screwdriver
- Center punch

## INSTALLATION

The **LPS7-00** is a 5 duplex outlet (20 amp. rated) Power Strip that can be mounted vertically on any 72" and 84" high Full Frame configuration. The Power Strip can be mounted on any vertical frame member of a Tech Frame, Rack Mount Module, or LAN Locker II. Installation on all vertical frame members is the same with two possible installation scenarios outlined below:

1. The Power Strip includes two to three **Mounting Clips** and two to three **#8-32 Self tapping screws** that will attach it to the Frame. See **Figure 1**. Position a Mounting Clip in the highest position, centered on the Standard, and mark this point with a center punch. See **Figure 2**.
2. Drill three holes in the Double Standard and then attach two to three Mounting Clips with the #8-32 screws. See **Figure 3**.
3. The Power Strip snaps onto the Mounting Clips. See **Figure 4**. Once the Power Strip is attached to the Mounting Clips, a flat head screwdriver will be needed if the Power Strip is to be removed from the Mounting Clips.

**NOTE:** The Mounting Clips attach to the Single Standard in the same manner as the Double Standard. Since there is no feature on the Single Standard that denotes its center, care needs to be taken to ensure that the Mounting Clips are centered on the Standard and they do not interfere with the Upright or Side Frame screws. See **Figure 2**.

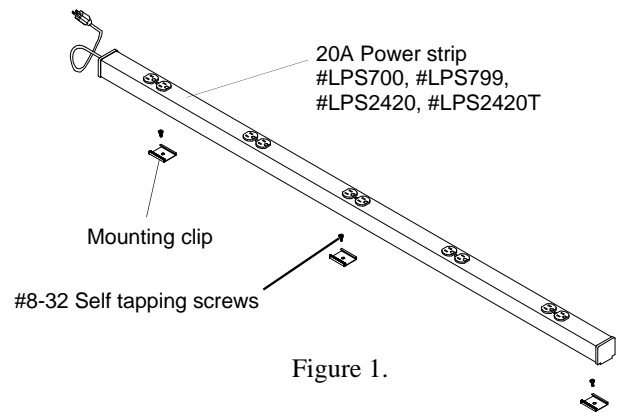


Figure 1.

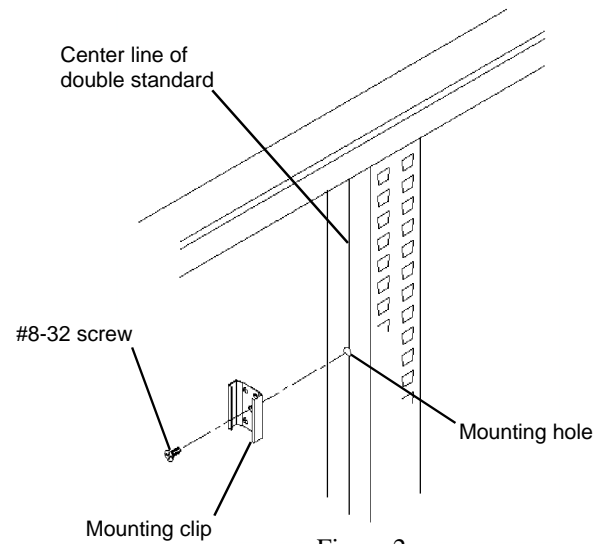


Figure 2.

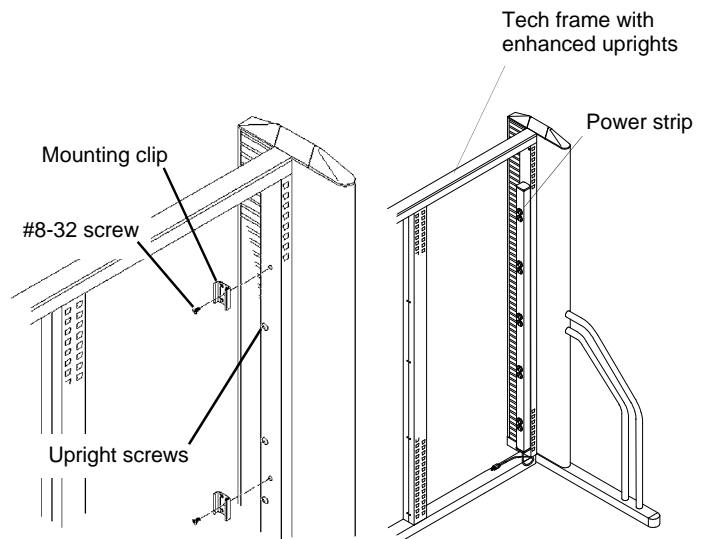


Figure 3.

Figure 4.

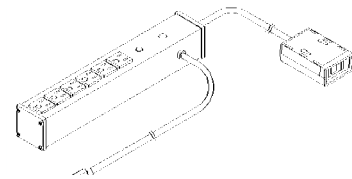


# Surge Suppressor with Remote

## Tools Required

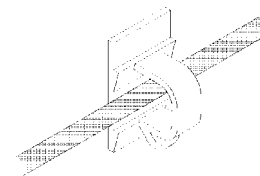
- Phillips head screwdriver
- Blade screwdriver

Packaged with your **Surge Suppressor with Remote** are the manufacturers installation and safe usage instructions. The LP55-MM has TYPE 1 mounting. The small envelope contains two **Aluminum Clips**, two **Screws** for mounting the clips.



Surge Suppressor with Remote  
#LPS5-MM  
#GSPSO25

1. Remote switch is supplied with double tape attached attached to switch housing.
2. Based on what else is attached to the underside of your Worksurface, such as Keyboards and CPU holders, the Outlet Strip may require selective placement. Extending the 44" wire of the remote its full length is also desirable. **Cord Clips**, with tape attachment, are provided with the workstation to assist in controlling your cord placement.
3. Determine the location of the **Outlet Strip** and then attach the Aluminum Clips with the Flat head screws as shown in **Figure 1**. The screws will go through the holes in the Modesty Panel and into the pre-drilled holes in the Worksurface. Next, snap on the Outlet Strip.



Cord Clip

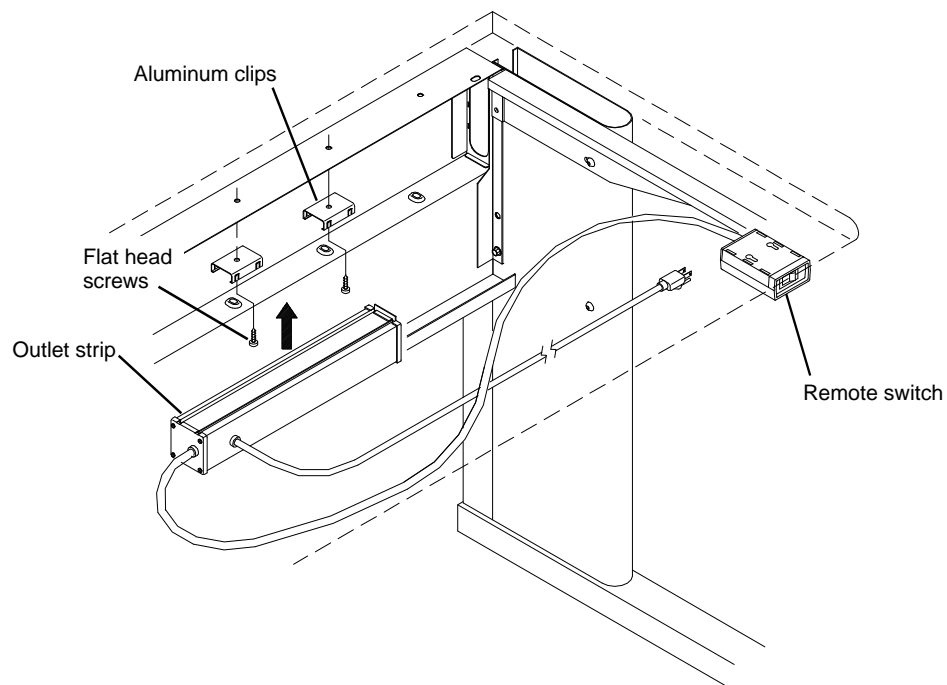


Figure 1

### Tools Required

- Phillips head screw driver

**NOTE:** For non-standard application, use the Track as a drill template. Keeping the Track perpendicular to both edges, position it 1/2" from the front edge of the worksurface. Drill (10) .109 dia. holes.

### MOUNTING TO UNDERSIDE OF WORKSURFACE

1. Align the **Track** mounting holes to pre-drilled holes on the underside of the worksurface. See **Figure 1**.
  2. Install four screws along each side of the Track and a rear center screw with a **Bumper**. Make sure screws are drawn down tight enough to ensure proper clearance between the **Articulating Arm Mechanism** and the track.
  3. Mount the **Keyboard Platform** to the tray brackets of the Articulating Arm Mechanism. Install six screws into the pre-drilled holes in the underside of the Platform.
  4. Loosen the knob and lower the mechanism to the down position. Re-tighten the knob.
  5. Slide the mechanism into the grooves on the Track until it contacts the Rear Bumper.
  6. Install the **Front Bumper** and screw.
  7. Apply the **Warning Label** as shown.
  8. **Cord Clips** are provided for wire management.
- NOTE:** For smooth sliding operation, it may be necessary to apply a light layer of lubrication to both sides of the Track. Slide the mechanism back and forth to spread the lubrication.
- \* Keyboard mechanism intended for keyboard weights only.

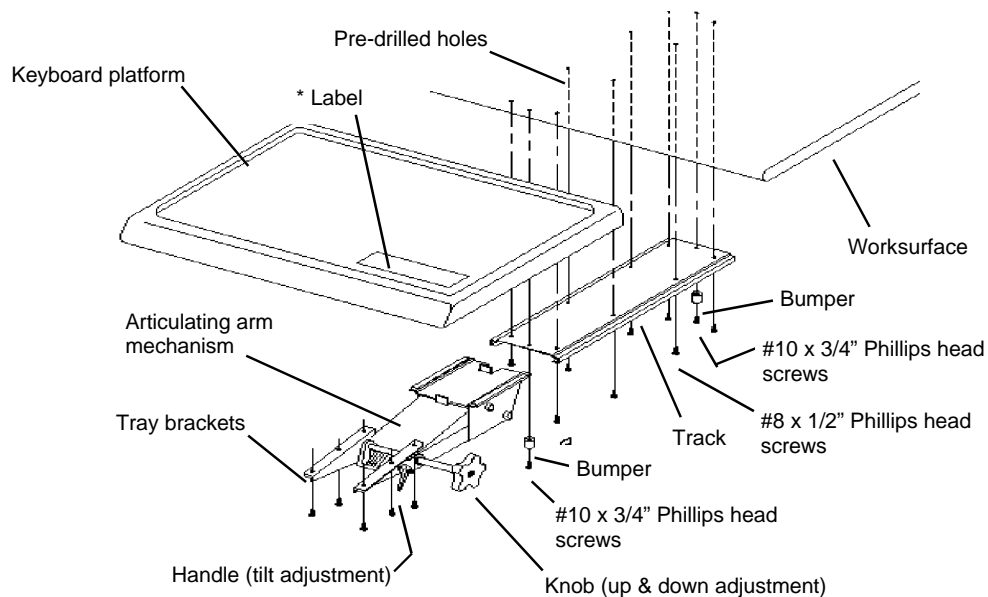


Figure 1

**Tools Required**

- Phillips head screw driver

**NOTE:** For non-standard application, use the Track as a drill template. Keeping the Track perpendicular to both edges, position it 1/2" from the front edge of the shelf. Drill (10) .109 dia. holes.

**MOUNTING TO UNDERSIDE OF BASIC PLUS LAMINATE SHELVES**

1. Align the **Track** mounting holes to pre-drilled holes on the underside of the Laminate Shelf Stiffener. Four of the middle holes in the track will line up with holes in the stiffener. See **Figure 1**.
2. In the remaining holes, snap spacers into the track as shown in **Figure 1**.
3. Using the #8 x 1/2" screws, attach the Track to the stiffener. Install two #8 x 1.25" screws along each side of the Track and a rear center screw with a **Bumper**. The #8 x 1.25" screws will screw through the spacer into the laminate shelf. Make sure the screws are drawn down tight enough to ensure proper clearance between the **Articulating Arm Mechanism** and the track.
4. Mount the **Keyboard Platform** to the tray brackets of the Articulating Arm Mechanism. Install six screws into the pre-drilled holes in the underside of the Platform.

5. Loosen the knob and lower the mechanism to the down position. Re-tighten the knob.
6. Slide the mechanism into the grooves on the Track until it contacts the Rear Bumper.
7. Install the **Front Bumper** with the #8 x 1.25" screw.
8. Apply the **Warning Label** as shown.
9. **Cord Clips** are provided for wire management.

**NOTE:** For smooth sliding operation, it may be necessary to apply a light layer of lubrication to both sides of the Track. Slide the mechanism back and forth to spread the lubrication.

\* Keyboard mechanism intended for keyboard weights only.

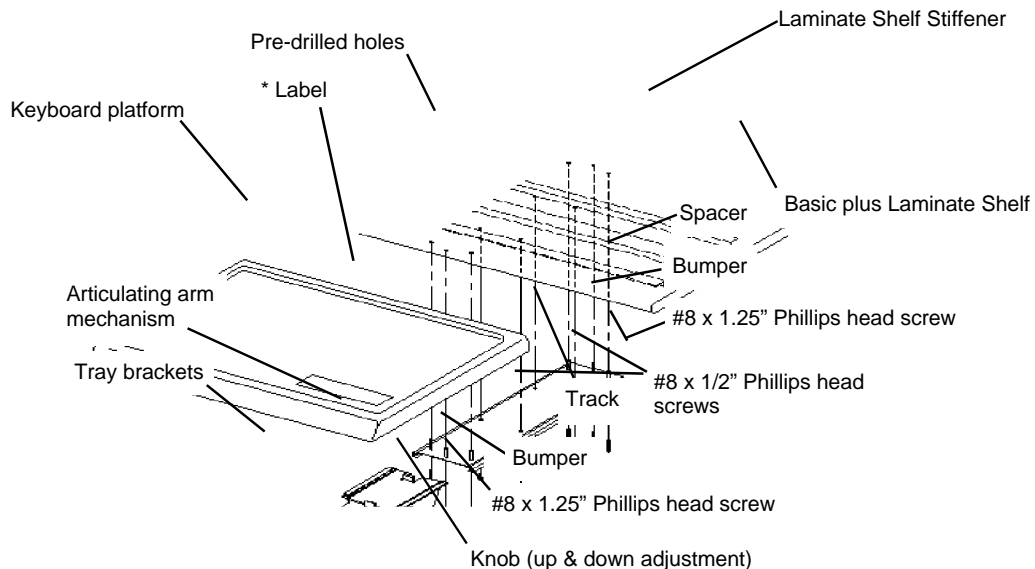


Figure 1

## MOUNTING TO UNDERSIDE OF UPPER SHELF

1. Slide the Articulating Arm into the Track.
2. Loosen the knob and lower the mechanism to the down position.
3. Position and align the Track Assembly with the holes in the Upper Shelf. See **Figure 2**.
4. Install two screws along each side of the Track.

\* Front and Rear Center Screws/Bumpers are not required since the Track is contained inside the bottom of the shelf.

5. Mount the Keyboard Platform to the Tray Brackets of the Articulating Arm Mechanism. Install six screws into the pre-drilled holes in the underside of the Platform.

NOTE: For smooth sliding operation, it may be necessary to apply a light layer of lubrication to both sides of the track. Slide the mechanism back and forth to spread the lubrication.

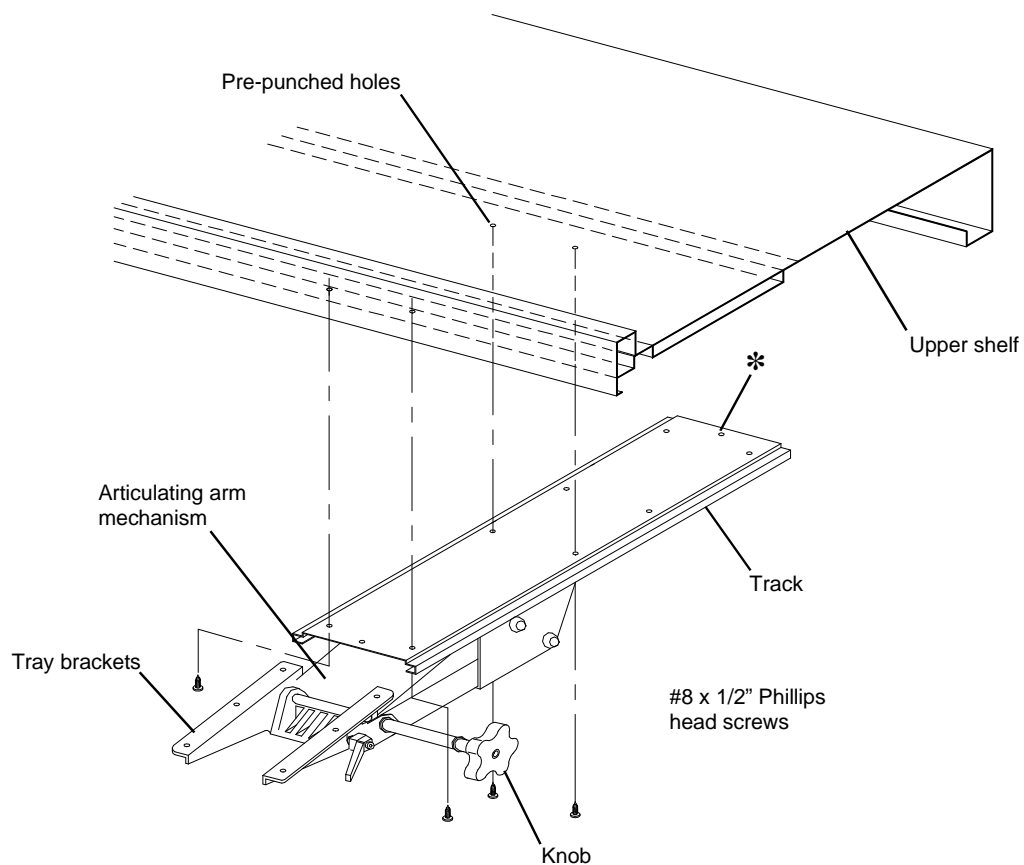
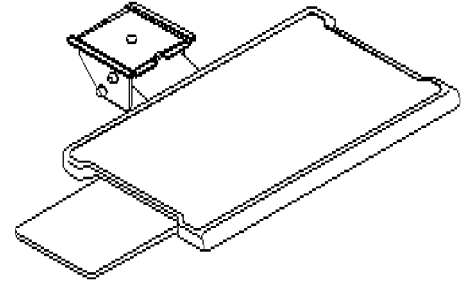


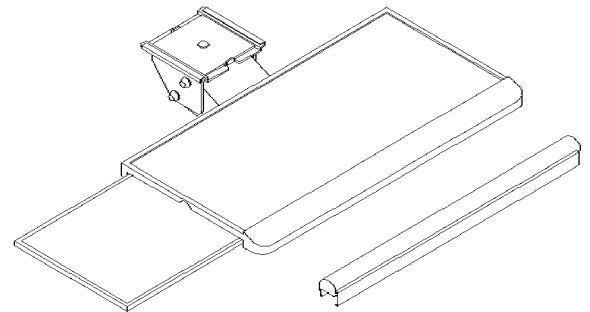
Figure 2

**LA09-MM Retractable Keyboard with Mouse Tray**

This Keyboard Platform mounts to the Tray Brackets with four Machine screws. Insert the front two screws first (oval holes). **Do not** tighten until all four have been started.



**LA14-MM Retractable Keyboard with Mouse Tray and Wrist Support**



### Tools Required

- Phillips head screwdriver

### MOUNTING TO UNDERSIDE OF WORKSURFACE

1. Align the **Track** mounting holes marked "X" to pre-drilled holes on underside of Primary Surface. See **Figure 1**.

**NOTE:** The front of the **Mounting Track** has a row of three holes, the rear edge has one hole.

2. Install three screws along each side of the Track and install the rear center screw with a **Bumper**. Make sure the screws are drawn down tight enough to ensure proper clearance between the Slide and Track.
3. Position the **Slide Assembly** into the Track and push to the rear until the front center screw hole is visible.
4. Install the front center screw with a **Bumper**.
5. **Cord Clips** are provided for wire management.

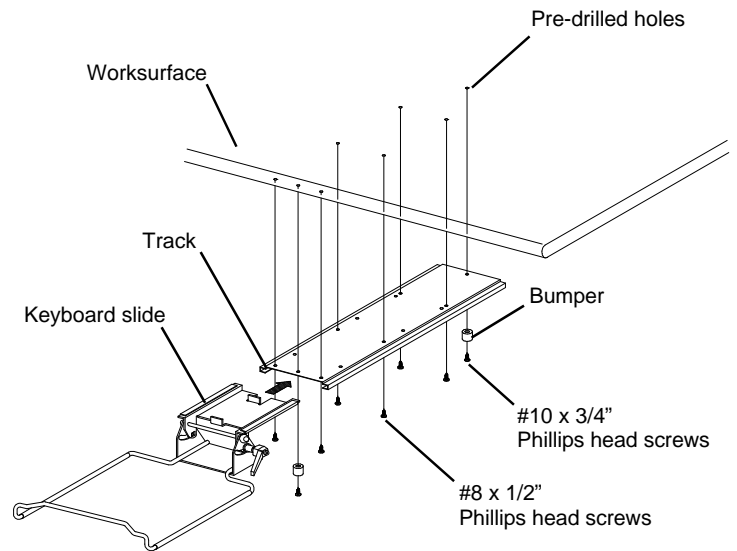


Figure 1

### MOUNTING TO UNDERSIDE OF UPPER SHELF

1. Slide the **Keyboard Platform** into the Track before attaching the Track to Upper Shelf.
2. Position and align the Track assembly mounting holes marked "X" with holes in the Upper Shelf. See **Figure 2**. (To identify the front of the Track, see previous NOTE)
3. Install two screws along each side of the Track and the rear center hole with a **Bumper**. Make sure the screws are drawn down tight enough to ensure proper clearance between the Slide and Track.
4. The **Front Bumper** is not required since the Track is contained inside the bottom of the shelf.

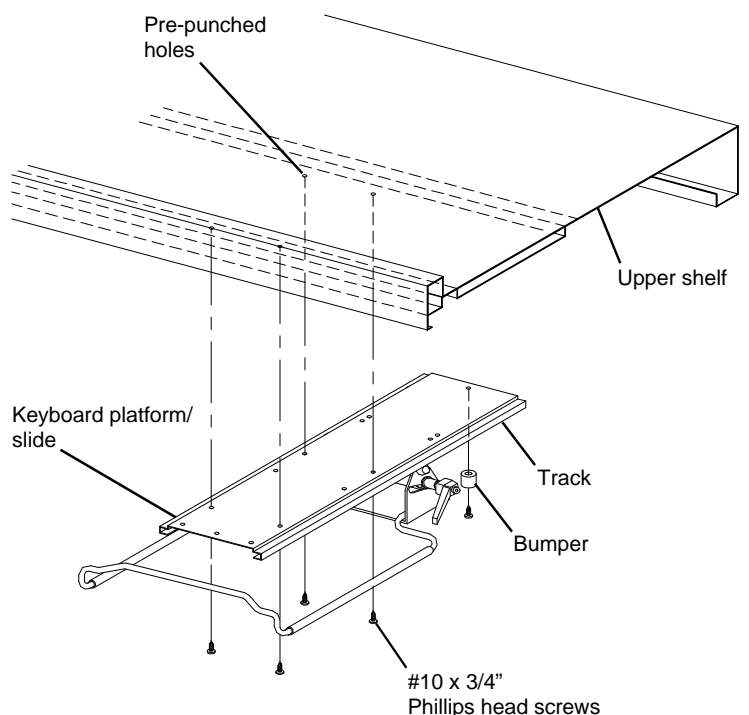


Figure 2

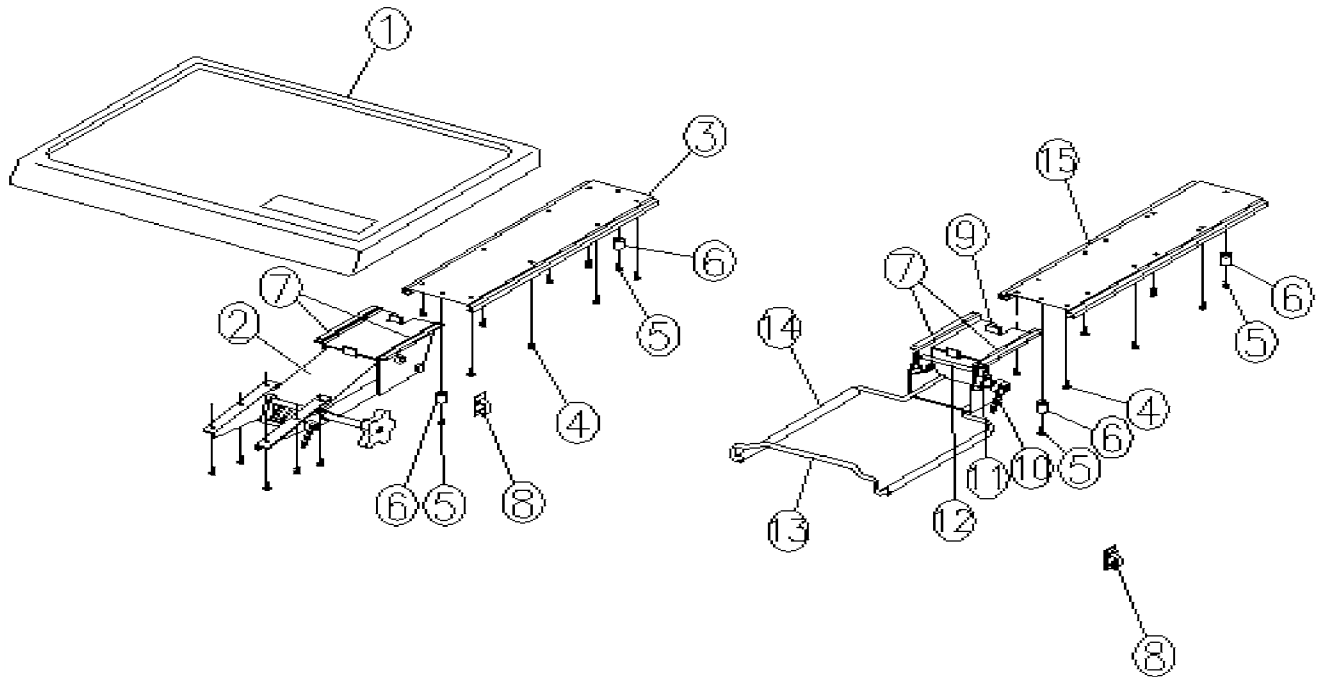
# Keyboard Accessories (cont.)

## Parts List

| Part Number | Description  | Qty. |
|-------------|--|------|
| <b>1</b>    | 2673X Keyboard Platform w/ Mouse                     | 1    |
|             | 4069X Keyboard Tray w/sliding Mouse Pad              |      |
|             | 4070X Snap-On Wrist Rest (not shown)                 |      |
| <b>2</b>    | 69799 Keyboard Arm                                   | 1    |
|             | 84365 Weber Knap Spring Assist Arm                   |      |
| <b>3</b>    | 80114 Keyboard Track                                 | 1    |
| <b>4</b>    | 68374 #8AB x .50" Phillips Pan Head Screw            | 6    |
| <b>5</b>    | 59103 #10AB x .75 Phillips Head Thread Forming Screw | 2    |
| <b>6</b>    | 59103 Bumper   | 2    |
| <b>7</b>    | 81652 Bearing  | 2    |

## Parts List

| Part Number | Description                         | Qty. |
|-------------|-------------------------------------|------|
| <b>8</b>    | 57488 Cord Clip                     | 2    |
| <b>9</b>    | 81626 Keyboard Slide                | 1    |
| <b>10</b>   | 81645 1/4"-20 x 1.00" Carriage Bolt | 1    |
|             | 81646 Lock Washer                   |      |
|             | 81647 Flat Washer                   |      |
|             | 81648 Spacer                        |      |
|             | 81649 Adjustable Hand Lever         |      |
| <b>11</b>   | 81644 Cap Nut                       | 2    |
| <b>12</b>   | 81643 .244" x 4.87" Dia. Shaft      |      |
| <b>13</b>   | 81651 Key Board Platform Assembly   | 1    |
| <b>14</b>   | 82242 9.00" Neoprene Tube           | 2    |
| <b>15</b>   | 81627 Key Board Track               | 1    |



# Interactive Monitor Arm

## Tools Required

- 5mm Allen wrench
- Phillips screwdriver
- Plastic mallet

There are two ways to attach a **Monitor Arm** to a Full Frame; with a **Beam**, or with a **Post Mount**. Both methods are included in these instructions.

## MONITOR ARM MOUNT-POST

**NOTE:** The **Post Mount** can be placed on any side by side rows of trapezoidal holes. Once in place, it is ready for the monitor arm.

1. Select the desired position for the Post Mount. Next, insert the hooks located on the back of the Post Mount into the slots in the post. To assure that the hooks are firmly seated, tap the top of the Post Mount with a Plastic mallet or equivalent. See **Figure 1**.

## MONITOR ARM MOUNT-BEAM

**NOTE:** The Beam is attached to posts spaced to correspond with the length of the beam ordered. There are 24", 30", 36", 42", 48", 60", and 72" Beams. Beams require a separate Monitor Arm Mount.

1. Select the desired position for the Beam. Next, insert the hooks located on the back of the Beam into the slots in the posts. To assure that the hooks are firmly seated, tap the top corners of the Beam with a plastic mallet or equivalent. See **Figure 2**.
2. Hang the Monitor Arm Mount on the Beam and lock it in place by attaching the **Retainer bar** with two #10-24 x 1.00 Socket head cap screws. See **Figure 3a** and **3b**.

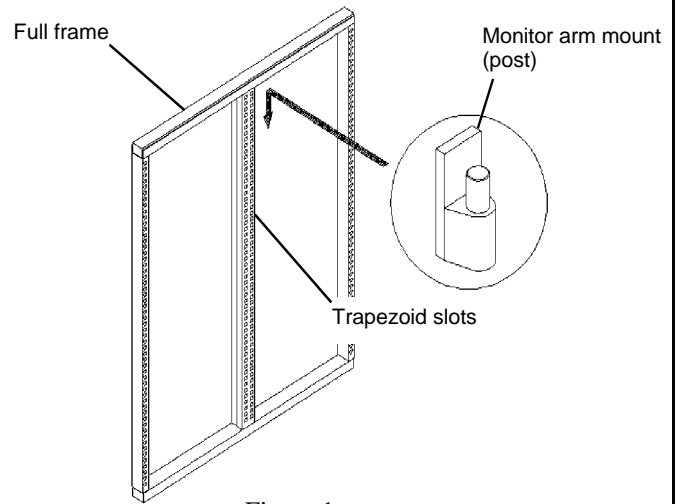
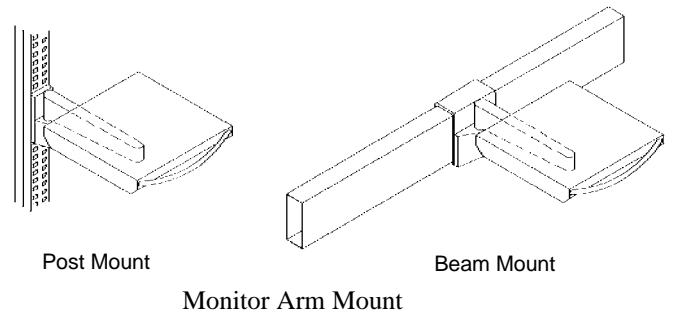


Figure 1

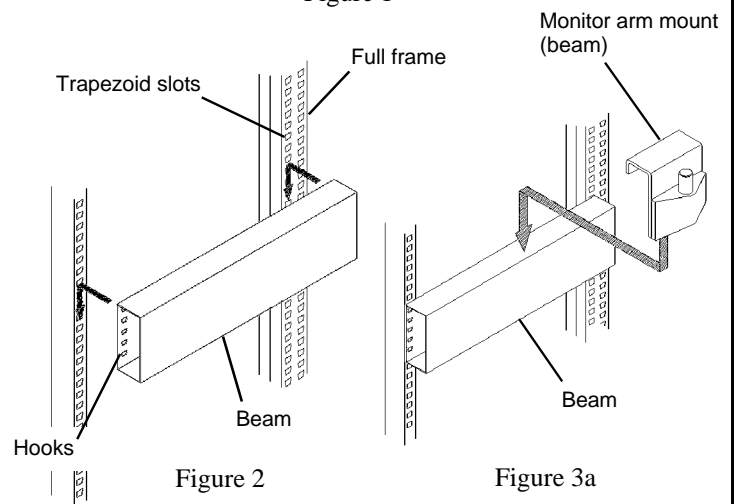


Figure 2

Figure 3a

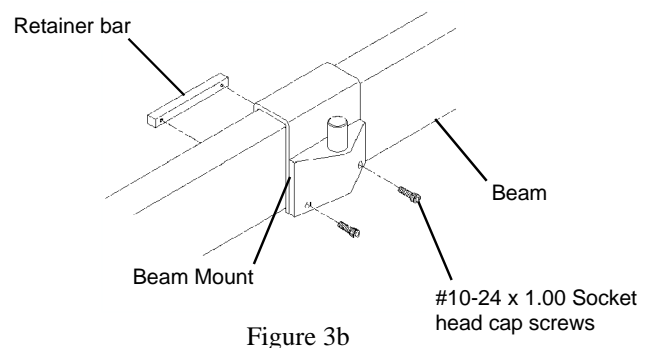


Figure 3b



## ATTACHING THE MONITOR PLATFORM

- Place the thin plastic washer (packaged with the short arm) over the 1.18" dia. pin on the Post or Beam Mount. See **Figure 4**.
- If you have the long arm version, assemble the arm extension to the short arm. The thin washer (packaged with the arm extension) goes over the 5/8" pin.

Insert the pin of the extension into the end hole of the short arm. Secure that assembly by inserting the M8 screw, the lock washer, and countersunk trim washer into the end of the 5/8" pin. **Do not tighten** ; The arm must rotate.

- The Monitor Platform drops into the end of the arm. Be sure two large black nylon spacers are on the platform pin before inserting. Secure that assembly by inserting the M8 screw with the lock washer and countersunk trim washer into the end of the 5/8" pin. **Do not over tighten**.

## ADJUSTMENTS

If rotated clockwise, the **Monitor Platform** will tighten itself. If this happens, turn it counter clockwise 360 degrees or until loose. The platform should now turn freely within your operating radius.

The Monitor Platform has three adjusting knobs underneath. These are for leveling the platform if the monitor is tipped slightly in any direction. By loosening and tightening the knobs in some order, level can be attained. For example. if the monitor leans to the left (low side), loosen the low side knob(s) and tighten the high side drawing it down.

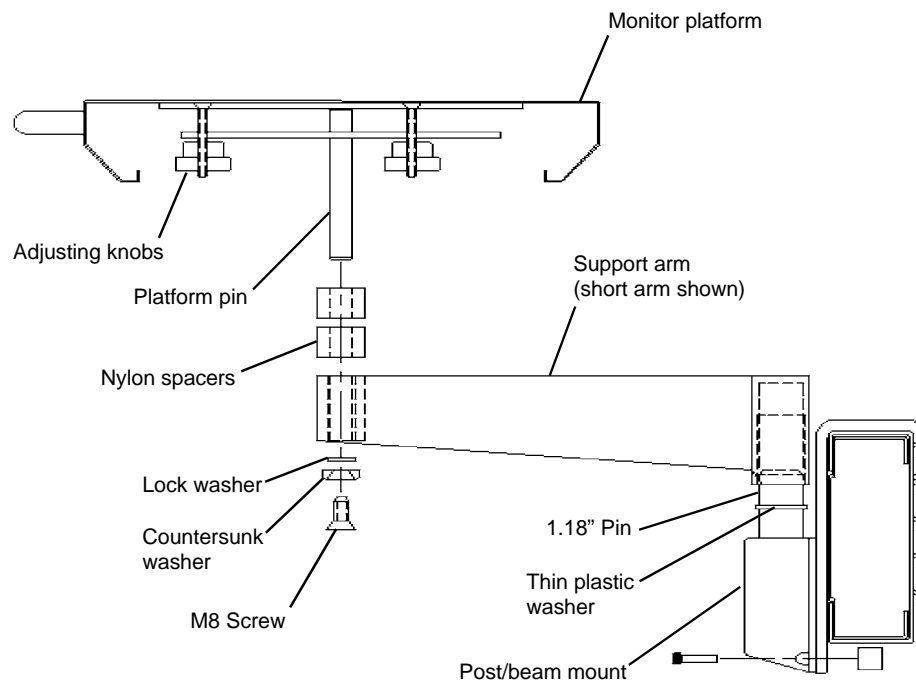
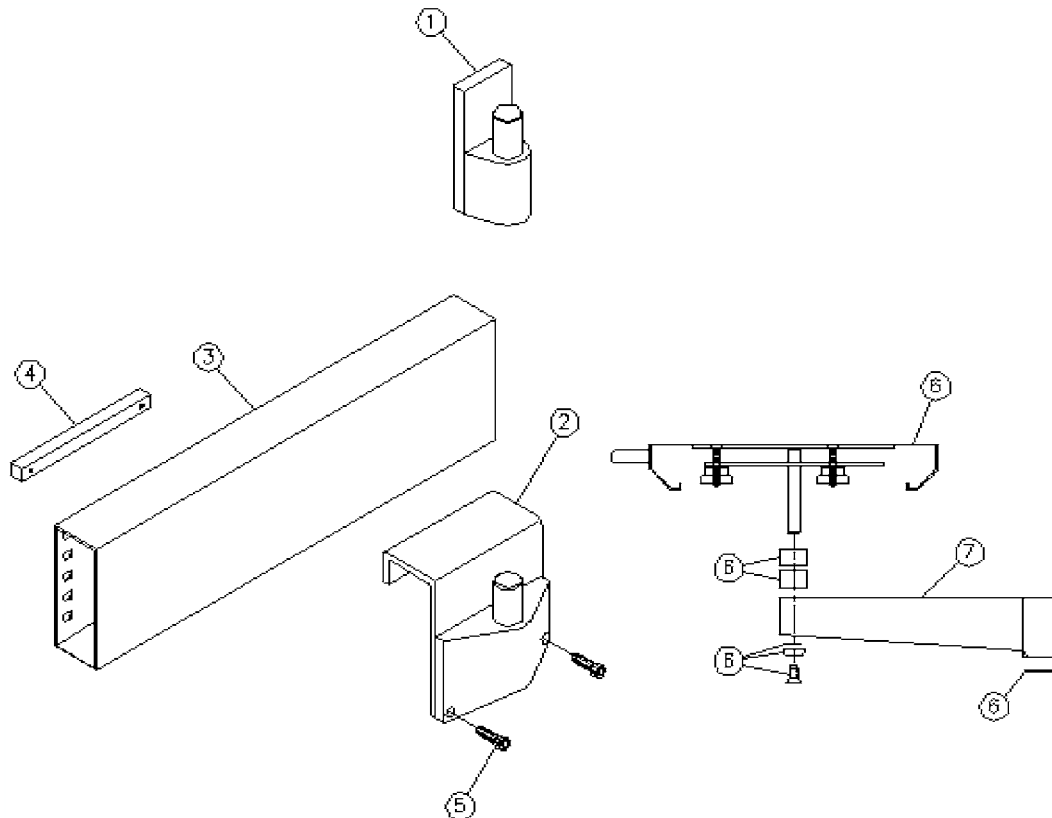


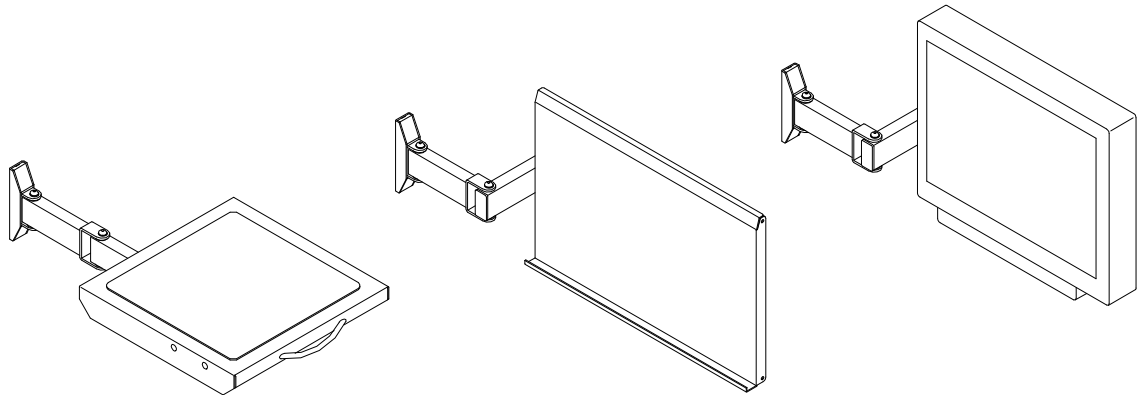
Figure 4

# Interactive Monitor Arm (cont.)

| Parts List  |       |                                      |      |
|-------------|-------|--------------------------------------|------|
| Part Number |       | Description                          | Qty. |
| 1           | 3153X | Post Mount Assembly                  | 1    |
| 2           | 82367 | Arm Mount Assembly                   | 1    |
| 3           | 3161X | 24" Beam                             | 1    |
|             | 3162X | 30" Beam                             |      |
|             | 3163X | 36" Beam                             |      |
|             | 3165X | 48" Beam                             |      |
|             | 3166X | 60" Beam                             |      |
|             | 3167X | 72" Beam                             |      |
| 4           | 3172X | Retainer Bar                         | 1    |
| 5           | 82461 | #10-24 x 1.00" Socket Head Cap Screw | 2    |
| 6           | 3154X | Monitor Arm Platform Assembly        | 1    |
| 7           | 82358 | Support Arm "A"                      | 1    |
|             | 82359 | Support Arm "B"                      |      |



# Articulating Arm / Components



Articulating Arm/Components

## IMPORTANT SAFETY INSTRUCTIONS

1. **Do Not** exceed the maximum weight load capacity for any component.

| Component        | Maximum Capacity |
|------------------|------------------|
| Monitor Platform | 60 Lbs.          |
| Tool Tray        | 30 Lbs.          |
| Bin Board        | 30 Lbs.          |
| Peg Board        | 20 Lbs.          |
| Document Holders | 20 Lbs.          |

2. **Do Not** install a Monitor Platform, Tool Tray or Bin Board on the 24" or 30" wide free standing TechBench or Linx Worksurface. They may cause the unit to tip if they are fully loaded and extended to one side.

The Bench or Worksurface must be securely attached to an adjacent unit to prevent potential tipping.

3. **Do Not** extend the components beyond the back of the 24", 30" or 36" wide TechOrganizers on Linx Worksurfaces as the unit may tip.

4. **Always** ensure that the articulating arm is secured to the TechOrganizer or Full Frame using the #10-24 x 3/8" thread forming screw provided.

*Please read these instructions carefully and follow the installation steps in sequence.*

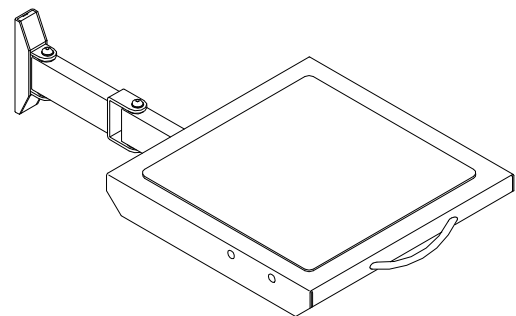
### Tools Required

- Phillips head screwdriver
- 3/16" Allen wrench (provided)
- 5/32" Allen wrench (provided)
- Rubber mallet

### ATTACHING COMPONENTS TO ARM

#### Monitor Platform

1. Remove the 5/16"-18 x 1/2" Button head cap screw and washer from the shaft located on the bottom of the Monitor Platform. Use the 3/16" Allen wrench provided. See **Figure 1**.



Monitor Platform

## ATTACHING COMPONENTS TO ARM (cont.)

- Slide the end of the Articulating Arm assembly with the thru hole onto the Platform shaft. See **Figure 1**.  
**Note:** Ensure that the two flange bearings on the Arm are in place.
- Attach the Arm to the Platform shaft using the 5/16"-18 x 1/2" Button head cap screw and washer. Do not overtighten. See **Figure 1**.

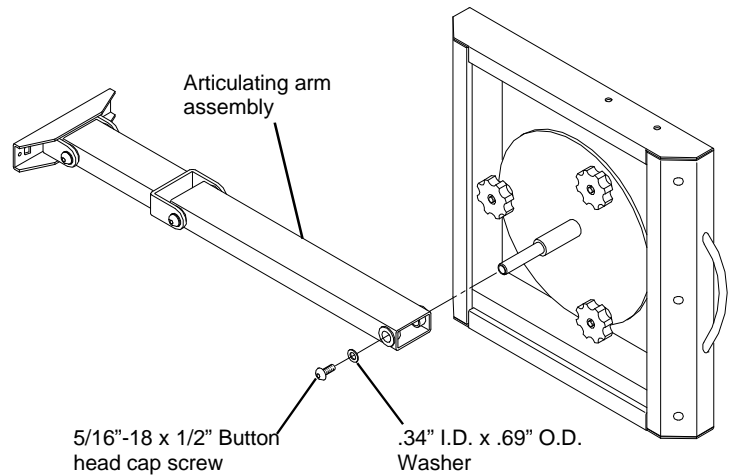


Figure 1

## Bin/Peg/White Boards, Tool Tray etc.

- Remove the following from the factory assembled component. See **Figure 2**.

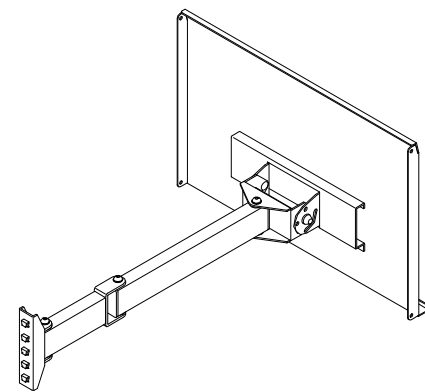
- (2) 5/16"-18 x 1/2" long Button head cap screws
- (2) .34" I.D. washers
- (1) .50" I.D. washer
- (1) .50" dia. x 2.42" long pin

- Align the holes in the end of the Articulating Arm with the holes in the pivot/swivel which is attached to the back of the component. See **Figure 2**.

**Note:** Ensure that the two flange bearings are in place.

**IMPORTANT:** Do not push the .50" dia. pin thru the entire assembly until the .50" I.D. washer is inserted between the bottom flange bearing on the Arm and inside surface of the pivot/swivel.

- Attach the Arm to the pivot/swivel using the 5/16"-18 x 1/2" Button head cap screws with washers. Tighten them with the 3/16" Allen wrench.



Articulating Arm w/ White Board

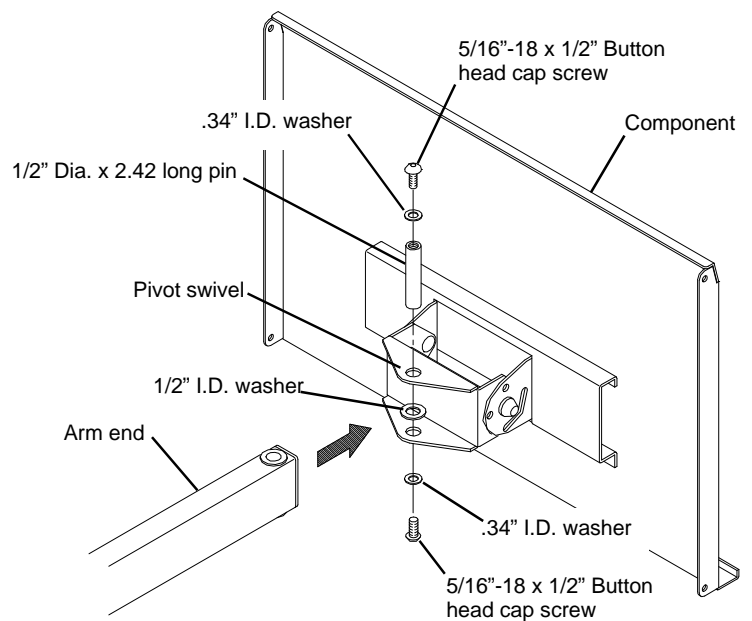


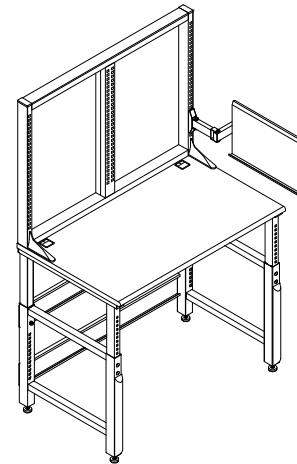
Figure 2

## INSTALLING THE COMPONENT

The Articulating Components may be installed on TechOrganizers or LMS Frames.

1. Determine the desired location on the Organizer/ Frame and insert the hooks on the back of the Articulating Arm mounting bracket into the slotted standard. See **Figure 3**.
2. Ensure that the mounting bracket is fully seated in the slotted standard by tapping it down with a rubber mallet.
3. Secure the mounting bracket to the standard using the #10-24 x 3/8" phillips pan head thread forming screw provided. See **Figure 3**.
4. Snap the plastic **Cover** onto the bottom of the bracket.

**Note:** The top cover is factory installed. To remove the cover, use a flat blade screwdriver in the slot provided.



TechBench with White Board

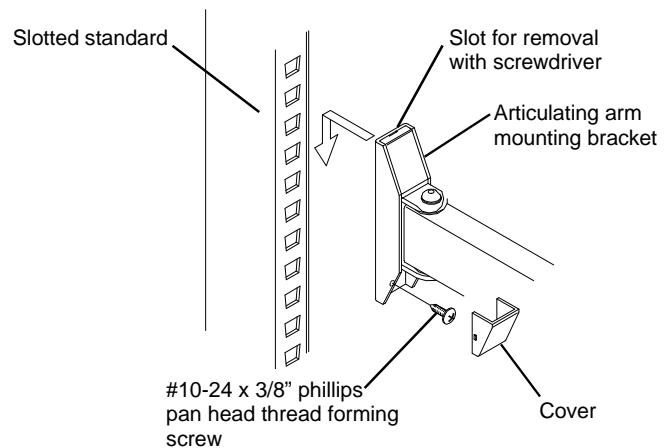


Figure 3

## OPTIONAL MOUSE PLATFORM

The **Mouse Platform** can be installed on the left or right side of the Monitor Platform.

### Tools Required

- 5/32" Allen wrench (provided)

1. Determine the installation side and remove the two plastic hole plugs from the Monitor Platform. See **Figure 4**.
2. Attach the Mouse Platform to the Monitor Platform using the 1/4"-20 x 3/8" Button head cap screws and 1/4"-20 hex nuts. Tighten securely. See **Figure 4**.

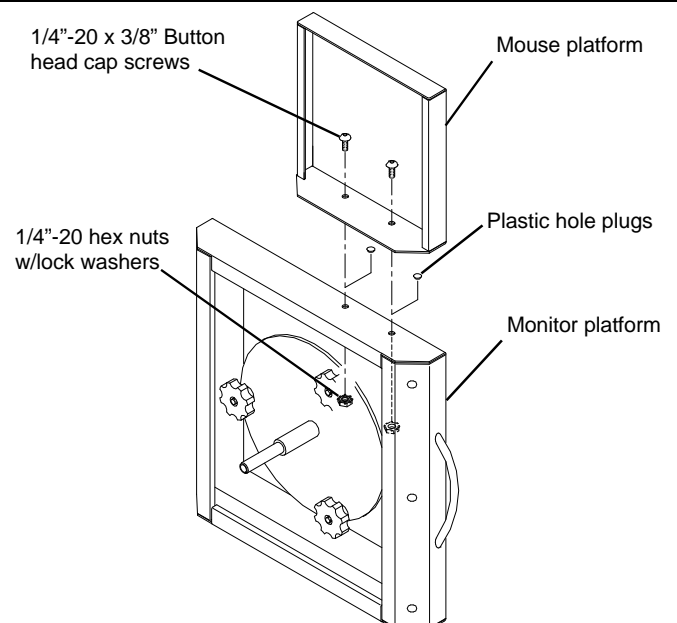


Figure 4

## OPTIONAL KEYBOARD TRAY

1. Remove the three plastic hole plugs from the front of the Monitor Platform. Align the three holes at the rear of the **Keyboard Tray** with the three holes in the Monitor Platform and insert three 1/4"-20 x 3/8" button head cap screws. Secure the screws with three 1/4"-20 hex nuts with lock washers. See **Figure 5**.

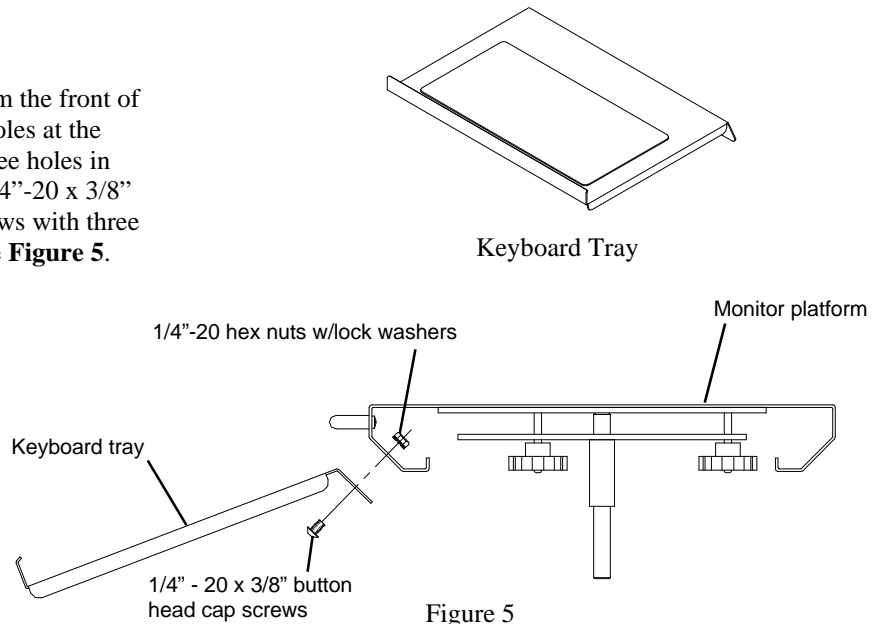


Figure 5

## ADJUSTING COMPONENTS

1. The ease with which a joint pivots can be adjusted by tightening or loosening the 5/16"-18 x 1/2" Button head cap screws at each joint. See **Figure 6**.
2. The incline/tilt of a component can be adjusted using the **Hand Adjustment Lever(s)**. See **Figure 7**.

**Note:** Pull the lever out to rotate it clockwise.

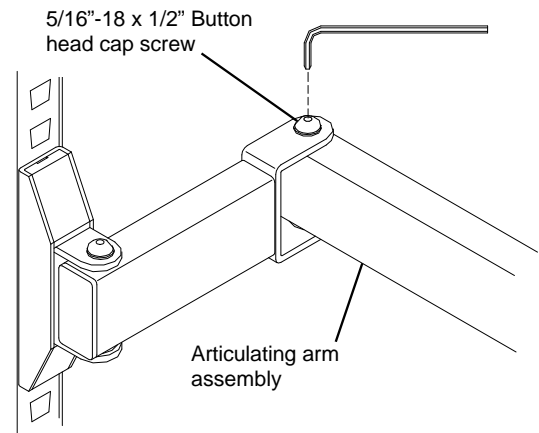


Figure 6

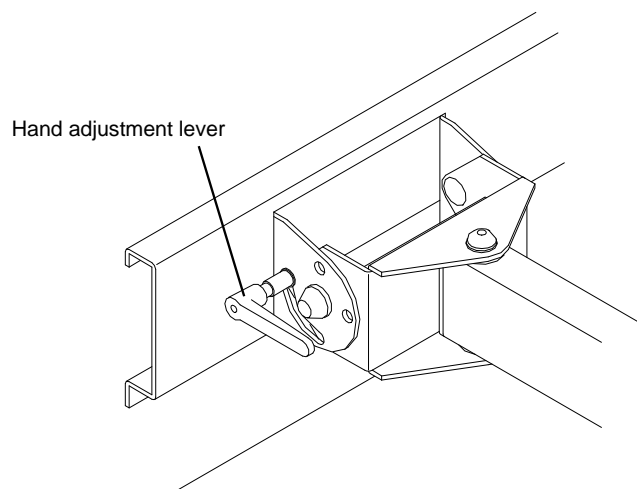


Figure 7

## OPTIONAL FLAT SCREEN MONITOR

1. Assemble the Flat Screen Monitor as shown in figure 8.

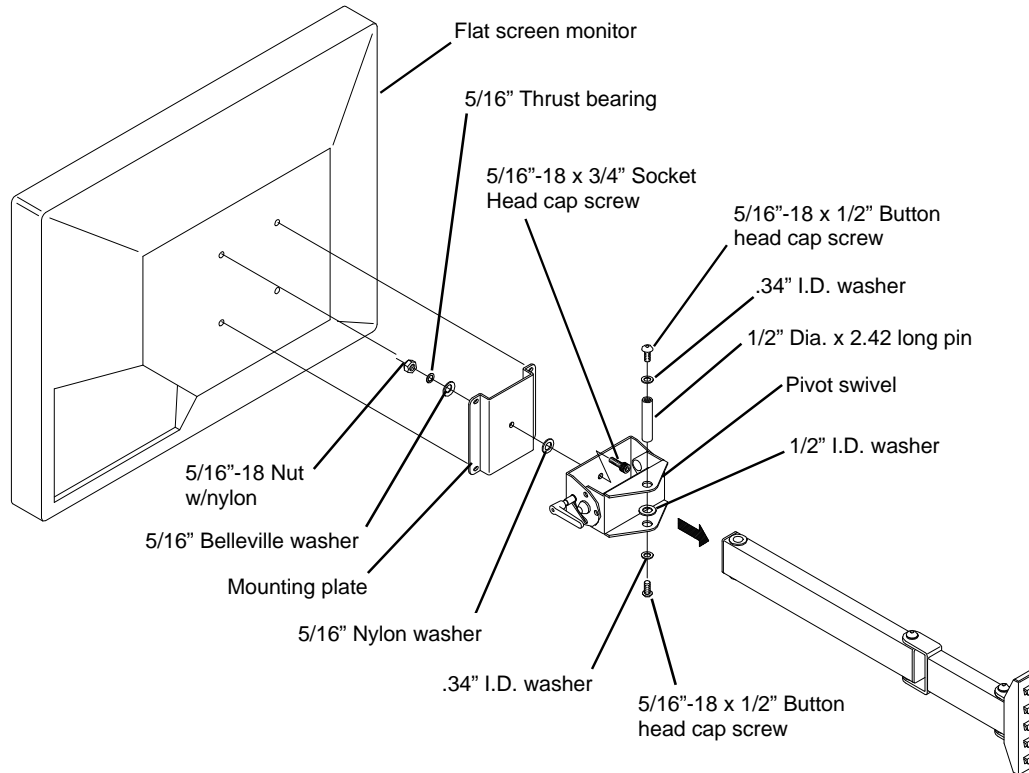
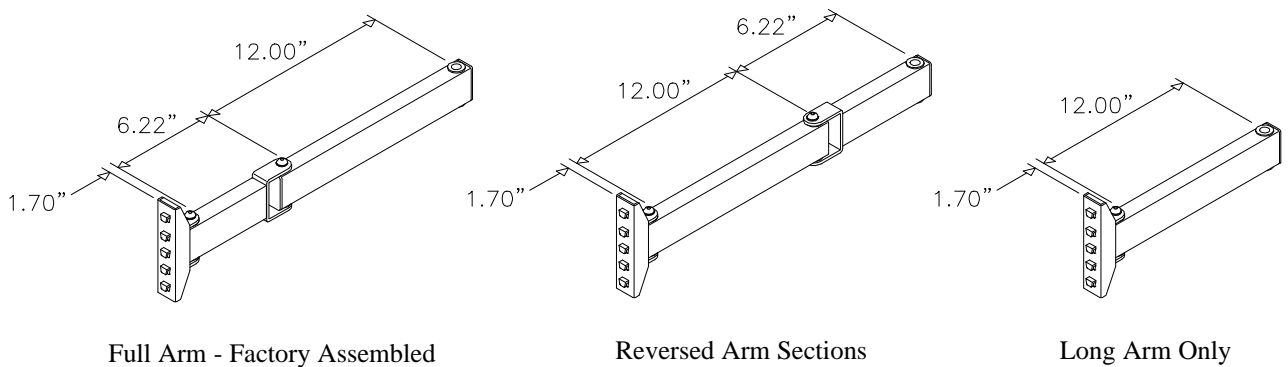


Figure 8

## ARTICULATING ARM VARIATIONS

The Articulating Arm can be configured in the various ways shown at right depending on your specific requirements.



technical furniture

# Articulating Arm / Components (cont.)

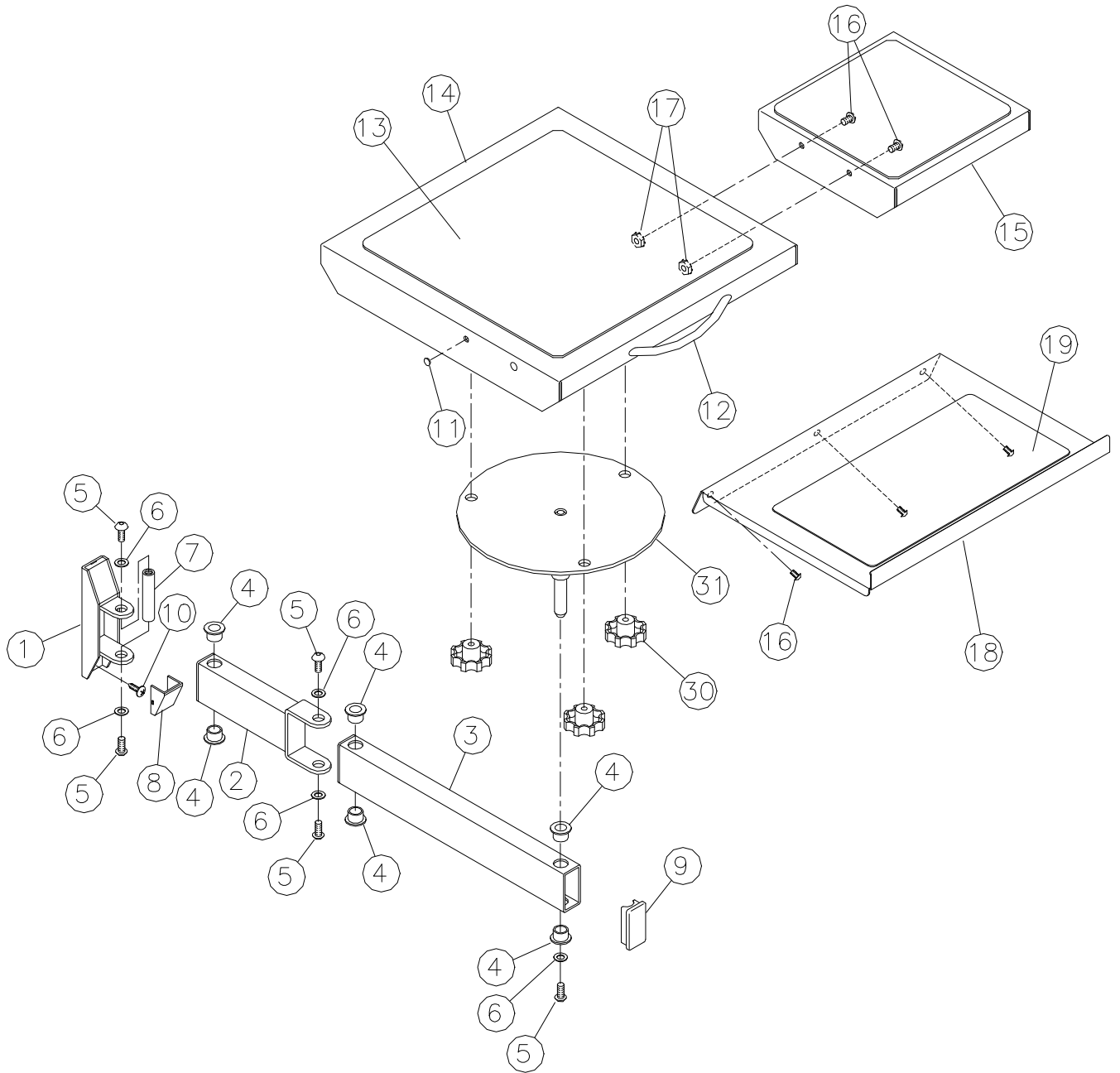
| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description  | Qty. |
| 1           | 7522X | Mounting Bracket                                     | 1    |
| 2           | 7523X | 6.22" Arm  | 1    |
| 3           | 7558X | Rectangular Tube 1.00" x 2.00" x 13.22"              | 1    |
| 4           | 86471 | Flange Bearing                                       | 6    |
| 5           | 86425 | 5/16"-18 x 1/2" Button Head Cap Screw                | 4    |
| 6           | 81710 | Plain Washer   | 4    |
| 7           | 86426 | Pin  | 2    |
| 8           | 7555X | Cover  | 2    |
| 9           | 7554X | End Cap  | 3    |
| 10          | 66714 | #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 1    |
| 11          | 82035 | Hole Plug  | 7    |
| 12          | 81911 | Handle w/Hardware                                    | 1    |
| 13          | 82366 | Rubber Pad   | 1    |
| 14          | 8169X | Monitor Platform                                     | 1    |
| 15          | 7553X | Mouse Platform                                       | 1    |
| 16          | 68681 | 1/4"-20 x 3/8" Button Head Cap Screw                 | 5    |
| 17          | 18209 | 1/4"-20 Hex Nut w/Lock Washer                        | 5    |
| 18          | 8172X | Keyboard Tray  | 1    |
| 19          | 87023 | Pad, 11.75" x 7.00"                                  | 1    |
| 20          | 86478 | Washer - SAE 1/2"                                    | 1    |
| 21          | 7525X | Pivot/Swivel Bracket                                 | 1    |
| 22          | 81644 | Cap Nut  | 4    |
| 23          | 81649 | Adjustable Hand Lever                                | 1    |
| 24          | 81645 | 1/4"-20 x 1.00" Carriage Bolt                        | 1    |
| 25          | 81646 | Lock Washer  | 1    |
| 26          | 81647 | .28" I.D. x .62" O.D. Washer                         | 1    |
| 27          | 81648 | Spacer   | 1    |
| 28          | 81643 | Shaft  | 1    |

| Parts List  |       |                                       |      |
|-------------|-------|---------------------------------------|------|
| Part Number |       | Description                           | Qty. |
|             | 86433 | 20" Wide White Board/Document Holder  | 1    |
|             | 7527X | 20" Wide Document Holder              |      |
|             | 86432 | 11" Wide White Board/Document Holder  |      |
| 29          | 7526X | 11" Wide Document Holder              |      |
|             | 7529X | 15" x 15.5" Peg Board                 |      |
|             | 7528X | 15" x 15.5" Bin Board                 |      |
|             | 7530X | 11" x 17.8" Tool Tray                 |      |
| 30          | 86991 | Leveler Knob                          | 3    |
| 31          | 8167X | Pivot Plate                           | 1    |
|             | 9553X | 75mm Mounting Plate                   | 1    |
| 32          | 9554X | 100mm Mounting plate                  |      |
| 33          | 87989 | 5/16"-18 x 3/4" Socket Head Cap Screw | 1    |
| 34          | 87991 | 5/16" Nylon Washer                    | 1    |
| 35          | 87992 | 5/16" Belleville Washer               | 1    |
| 36          | 87990 | 5/16" Thrust Bearing                  | 1    |
| 37          | 82198 | 5/16"-18 Nut w/Nylon                  | 1    |
| 38          | 9552X | Bracket                               | 1    |

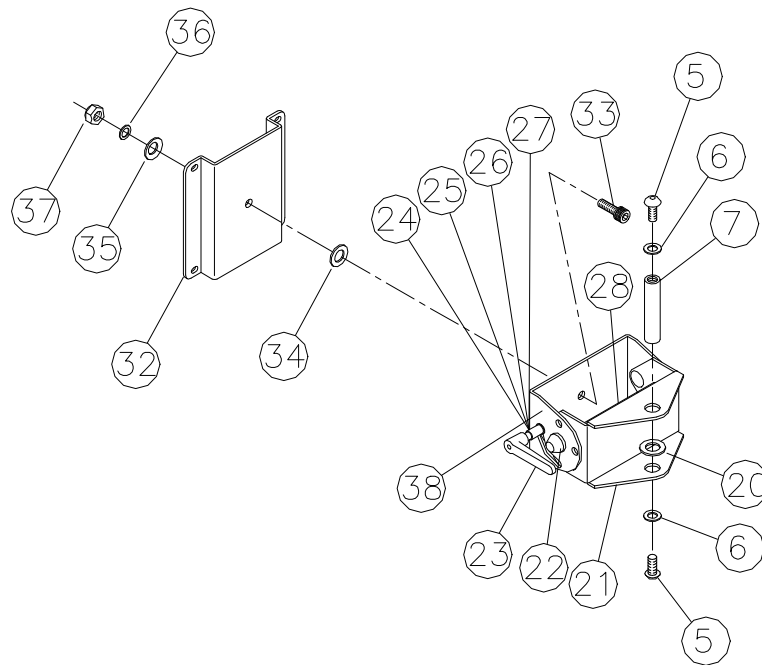
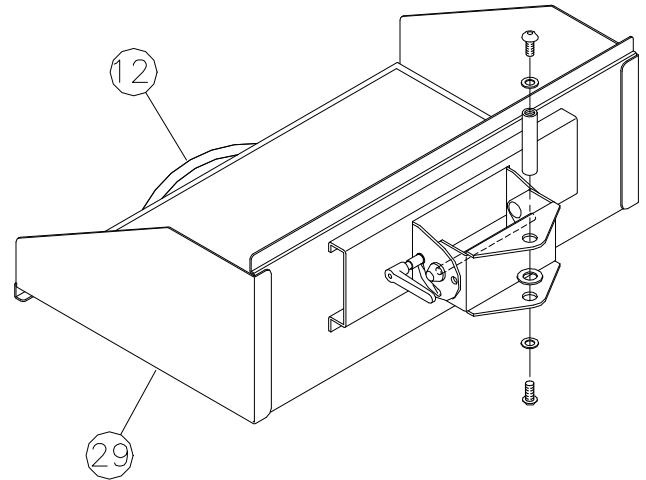
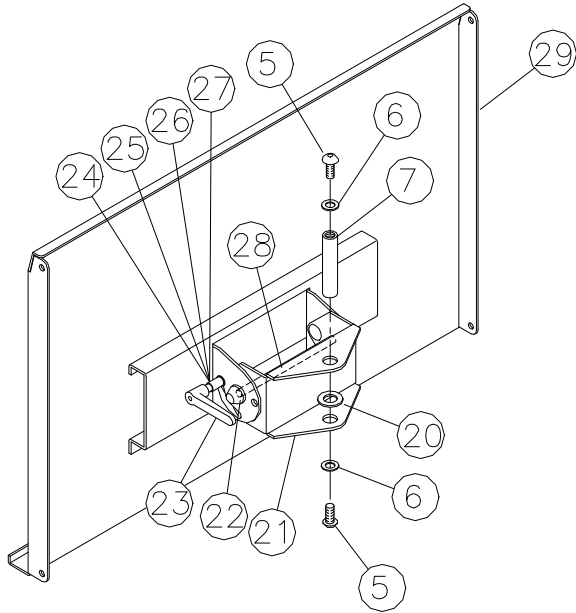


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# Articulating Arm / Components (cont.)



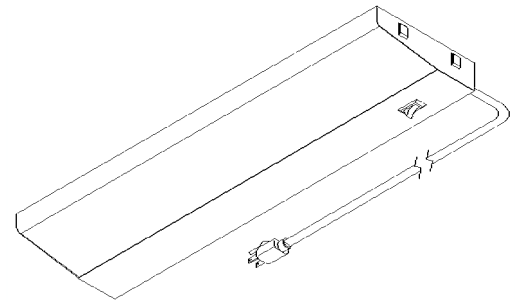
# Articulating Arm / Components (cont.)



**Tools Required**

-Phillips head screwdriver

**Task Lights** are available in (4) sizes and can be installed on various size shelves per the following matrix. The holes for installation are pre-punched.



Task Light

| <u>Shelf</u>                 | <u>Task Light</u>                       |
|------------------------------|---|
| 24" Tower/Electric/G.P Shelf | - 18" centered                          |
| 30" Tower/Electric/G.P Shelf | - 18" centered, 24" centered            |
| 36" Tower/Electric/G.P Shelf | - 18" centered, 24" centered            |
| 42" Tower/Electric/G.P Shelf | - 24" centered, 36" centered            |
| 48" Tower/Electric/G.P Shelf | - 24" centered, 36" centered            |
| 60" Tower/Electric/G.P Shelf | - 24" L/R/C, 36" centered. 48" centered |
| 72" Tower/Electric/G.P Shelf | - 24" L/R/C, 36" centered, 48" centered |
| 24" Locking Compartment      | - 18" centered                          |
| 30" Locking Compartment      | - 18" centered, 24" centered            |
| 36" Locking Compartment      | - 18" centered, 24" centered            |
| 42" Locking Compartment      | - 18" centered, 36" centered            |
| 48" Locking Compartment      | - 18" centered, 36" centered            |

**TASK LIGHT INSTALLATION**

1. Locate any two screw holes in the Shelf Stiffener that are on the following centers.

- 18" Task Light - 10" centers
- 24" Task Light - 16" centers
- 36" Task Light - 28" centers
- 48" Task Light - 40" centers

Install two #10 x 3/8" Phillips head sheet metal screws partially into the holes, leaving them protruding approximately 1/16". See **Figure 1**.

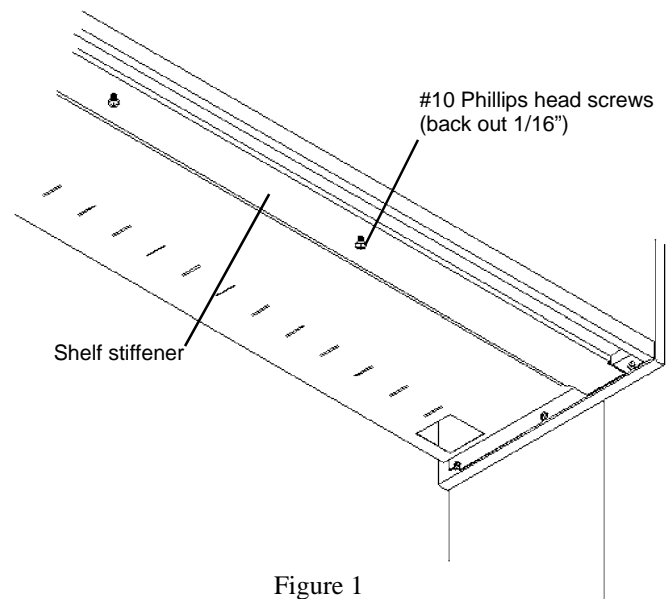


Figure 1

# Task Light ( c o n t . )

2. Remove the lens and bulb from the Task Light .  
To remove the lens, push it up near the front edge of the Task Light fixture. See **Figure 2**. Remove bulb by rotating it in either direction and then pulling it away from the mounting sockets.

3. Position the Task Light fixture against the Shelf stiffener with the mounting screws protruding thru the large ends of the “key hole” slots. Push the fixture toward the back of the Shelf to seat the screws into the narrow portion of the slots and then tighten the screws. See **Figure 4**.

4. Now replace the bulb and the lens. The corrugated surface of the lens is toward the bulb. See **Figure 3**.

**Cable Clips** are provided to route and secure the Task Light cord.

**NOTE:** Fixture must be plugged into a three pronged grounded outlet.

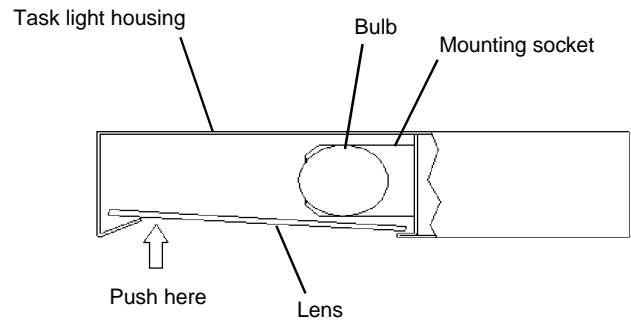


Figure 2. Removing lens and bulb

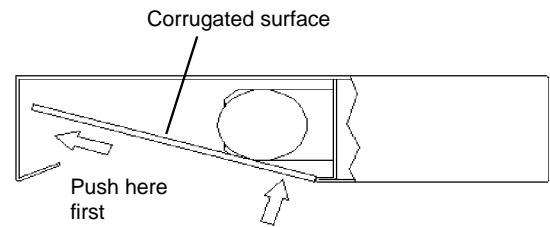


Figure 3. Replacing lens and bulb

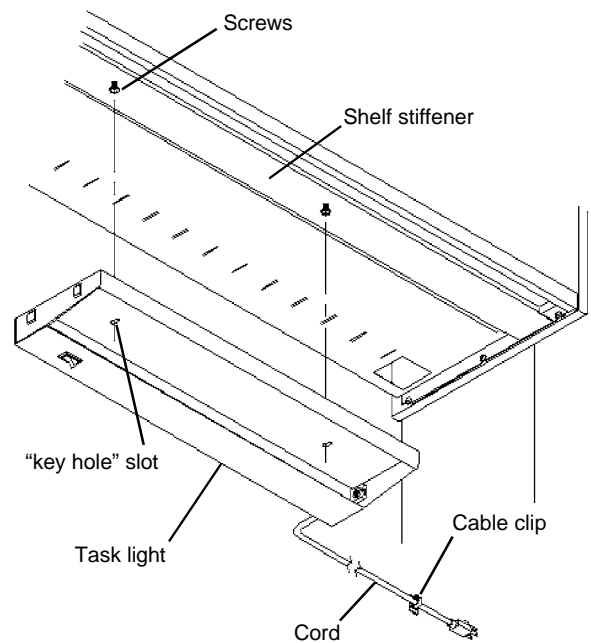


Figure 4

**Tools Required**

- Plastic mallet
- 5/32 Hex Wrench (provided)
- 1/2" Wrench or socket
- Phillips head screwdriver

There are three types of **Overhead Lighting Support Brackets**. The **Low Profile** version (when hooked in the top trapezoids of a Standard) is below the top of the Full Frame, the **High Profile** version that is 12" above, and the **Rear Mount** version which is also 12" above the top of the Full Frame.

In addition to the light, the Overhead Brackets support an optional **Tool Track**.

The attachment options vary with Full Frame width (left side, right side), the size of the light, and your height preference.

1. Select the position you prefer and hook on the first Support Bracket. Space the second Bracket based on the frame modules and light size ( 36", 48", etc.). Tap the Brackets down, making sure the hooks are seated into the frame. Secure the Brackets by driving the #10-24 x 3/8" screws (provided) into the hole at the bottom of each Bracket. See **Figure 1**.

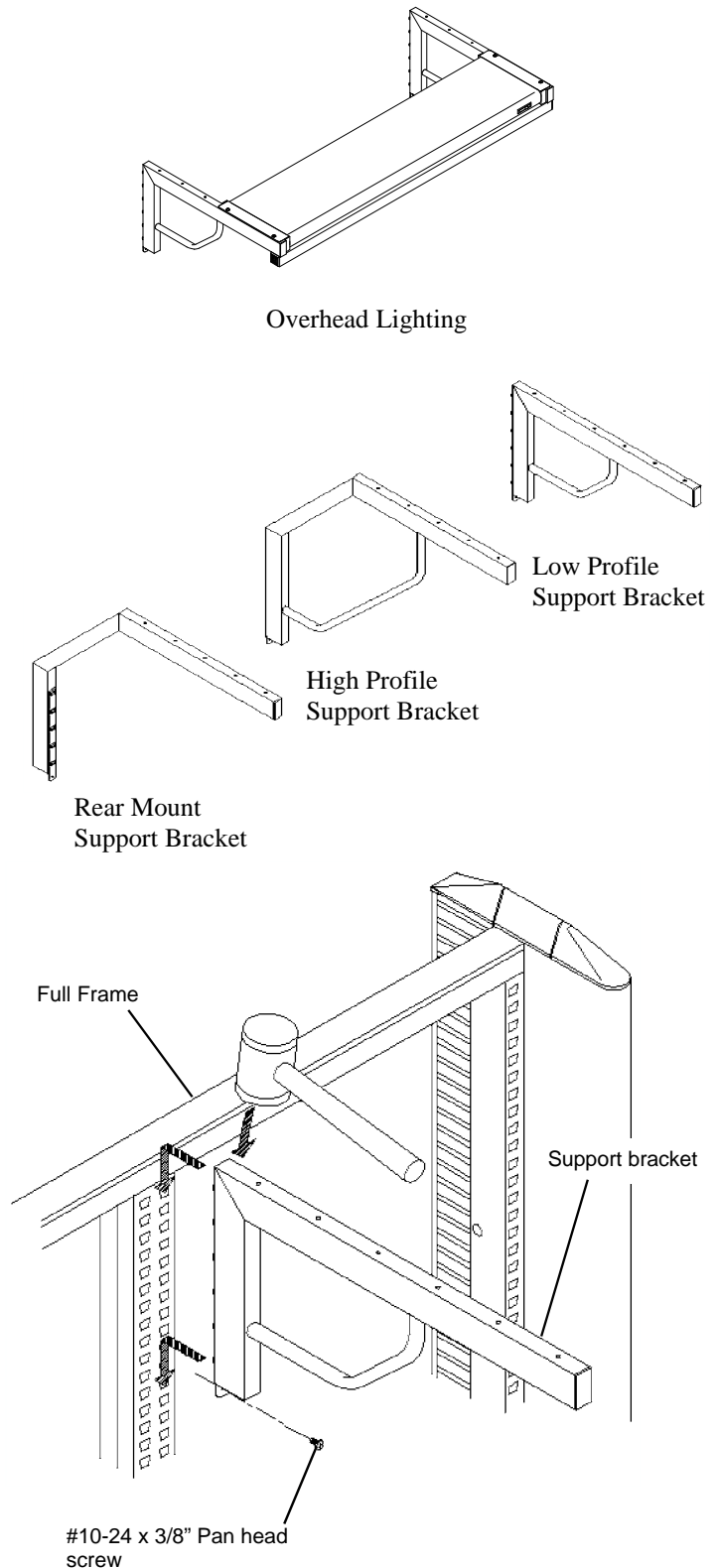


Figure 1

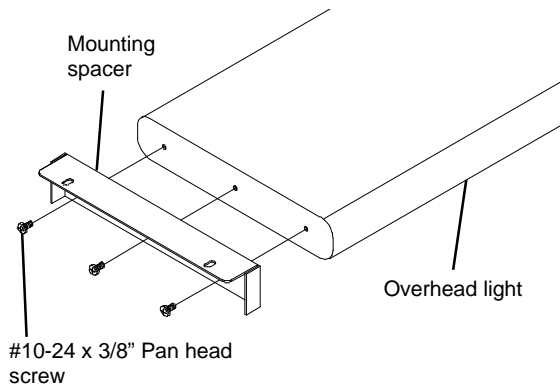


Figure 2

2. Packaged with the Light Support Brackets are two **Mounting Spacers** for the light which are in a separate carton. Attach a Spacer to each end using three 10-24 x 3/8 screws for each. See **Figure 2**.

3. Position the light between the Support Brackets with the Spacer flange above the Brackets. Rest the light on the Brackets. There are three positions, front to back, for the light. Select one by aligning the Spacer holes with Bracket holes and attach with two 1/4-20 x 1/2" Button head screws at each end. See **Figure 3**.

### TOOL TRACK ATTACHMENT

1. The **Tool Track** attaches to the under side of the Light Support Brackets at the front. Align the hole in the Tool Track with the hole in the Support Bracket and drive one 1/4-20 x 1/2" screw and lock washer into the end of each Bracket. Screws at both ends should be started before tightening either one. See **Figure 4**.

2. Insert one **End Stop**, #83632, into the Tool Track (see **Figure 4** for orientation). The straight plate is on the outside creating a sandwich or clamping attachment. **Do Not** tighten yet!

3. Insert the **Tool Trolley** (not shown) next and then the second End Stop. Assemble the **End Caps** to each end. **NOTE:** If an End Cap strikes a screw head before seating fully into the tube, loosen the screw so that the End Cap slides under the head, then re-tighten. Or, trim the cap with scissors.

4. Slide the End Stops to each end to a position just short of the End Caps and tighten.

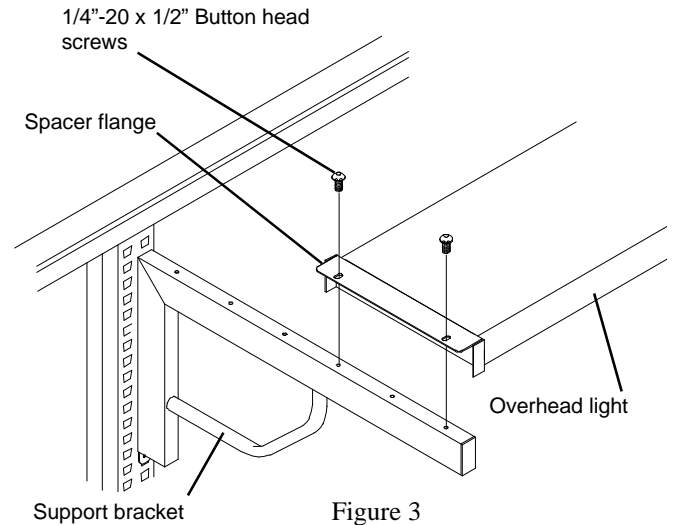
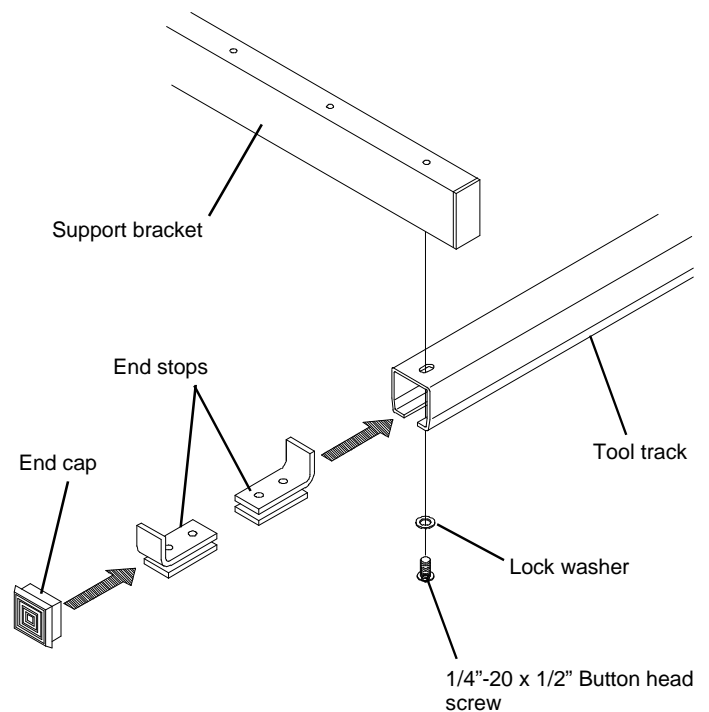


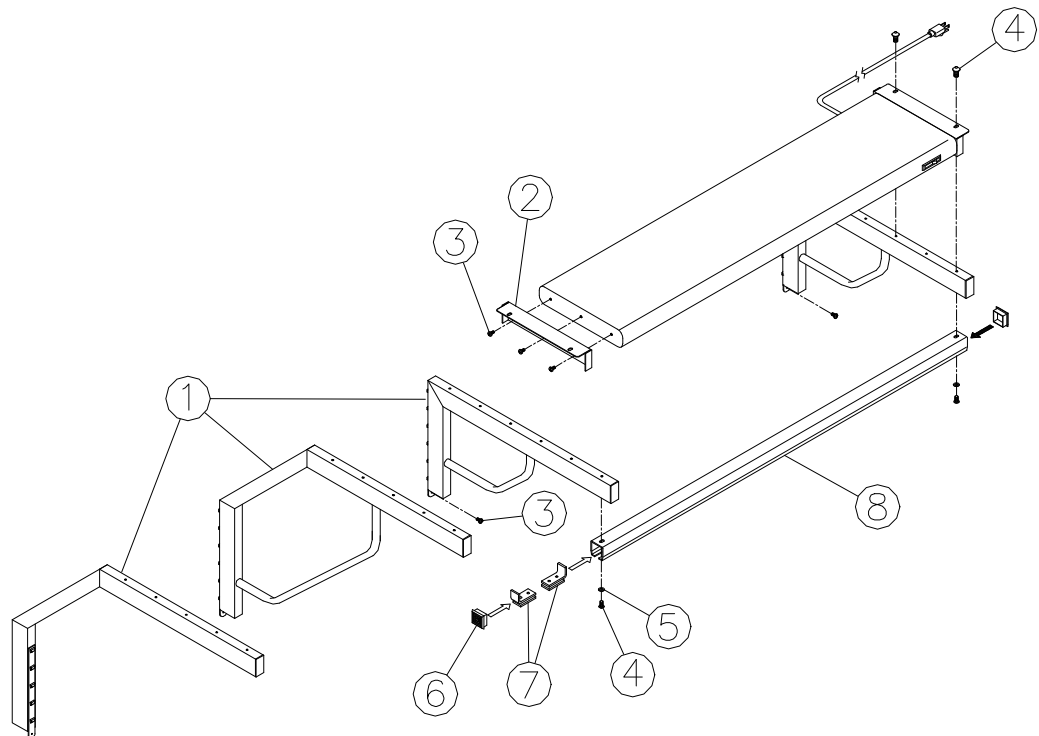
Figure 3



Figure

# Overhead Lighting ( c o n t . )

| <b>Parts List</b> |       |  |      |
|-------------------|-------|--|------|
| Part Number       |       | Description  | Qty. |
| <b>1</b>          | 3807X | Light Support, Low Profile                           | 2    |
|                   | 3808X | Light Support, High Profile                          |      |
|                   | 5143X | Rear Mount Support Bracket                           |      |
| <b>2</b>          | 3821X | Spacer   | 2    |
| <b>3</b>          | 66714 | #10-24 x 3/8" Phillips Pan Head Thread Forming Screw | 6    |
| <b>4</b>          | 82703 | 1/4"-20 x 1/2" Button Head Screw                     | 6    |
| <b>5</b>          | 59588 | 1/4" Lock Washer                                     | 2    |
| <b>6</b>          | 83633 | End Cap  | 2    |
| <b>7</b>          | 83632 | End Stop   | 2    |
| <b>8</b>          | 83627 | Tool Track, 24"                                      | 1    |
|                   | 83628 | Tool Track, 30"                                      |      |
|                   | 83629 | Tool Track, 36"                                      |      |
|                   | 83630 | Tool Track, 42"                                      |      |
|                   | 83631 | Tool Track, 48"                                      |      |



# L a m i n a t e H o o k - o n S h e l v e s w i t h O v e r h e a d L i g h t

**Tools Required**

- Plastic mallet
- Phillips head screwdriver

1. Determine the location of the **Shelf** and **Overhead Light** and install the shelf as outlined on page K-3.

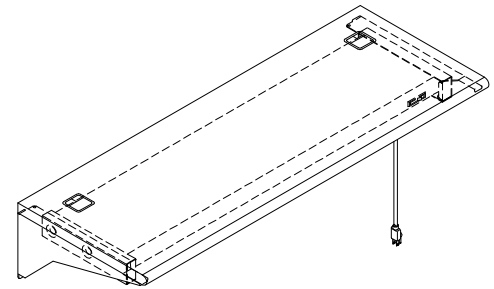
**INSTALLING LIGHT USING SHELF SUPPORT BRACKET FASTENERS**

**NOTE:** Do not fully tighten the four screws attaching the shelf to the shelf supports; leave approximate 1/8" gap. See **Figure 1**.

2. Attach a **Light Mounting Bracket** to the underside of each shelf support. Align the keyhole slots in the brackets with the shelf attachment screws. Shift the brackets on the screws to bottom out in the keyhole slots. See **Figure 2a**.

**NOTE:** 12" deep shelves use the two *inner* keyhole slots on 5" centers; 18"/24" deep shelves use the two *outer* keyhole slots on 11" centers. See **Figure 2b**.

3. Tighten all screws.



Laminate Hook-on Shelves with Overhead Light

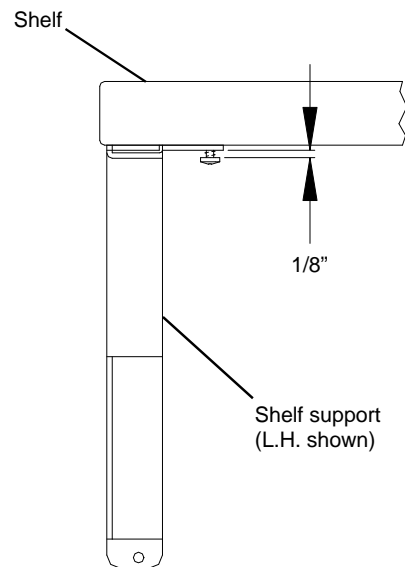


Figure 1

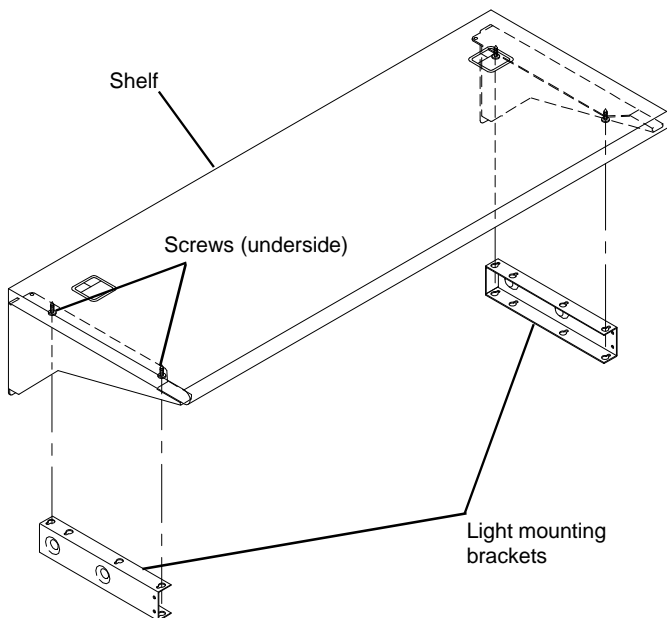


Figure 2a

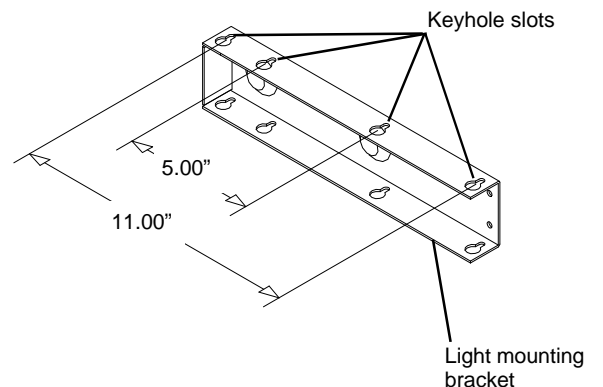


Figure 2b

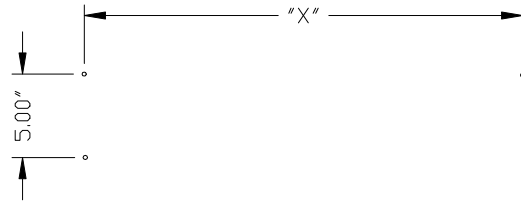


# L a m i n a t e H o o k - o n S h e l v e s w i t h O v e r h e a d L i g h t ( c o n t . )

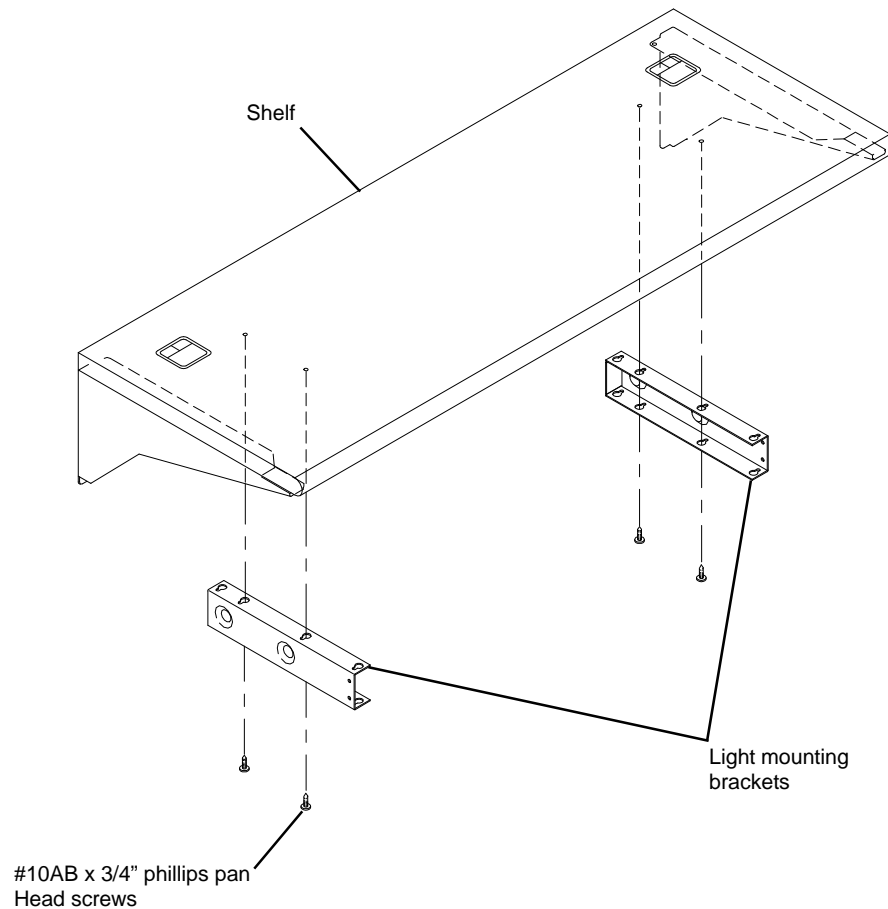
## INSTALLING LIGHT BETWEEN SHELF SUPPORT BRACKETS

- Drill four .113 diameter holes (#33 drill) .50" deep in the underside of the shelf per the hole pattern dimensions indicated, positioning the light in the desired location.

|                 | <u>Dim. "X"</u> |
|-----------------|-----------------|
| 36" Light ..... | 31.94"          |
| 48" Light ..... | 43.94"          |
| 60" Light ..... | 55.94"          |
| 72" Light ..... | 67.94"          |



- Attach the Light Mounting Brackets to the underside of the shelf using four #10AB x 3/4" phillips pan head screws provided. See **Figure 3**.



# L a m i n a t e H o o k - o n S h e l v e s w i t h O v e r h e a d L i g h t ( c o n t . )

6. Install the light into the brackets with the on/off switch toward the front. See **Figure 3**.

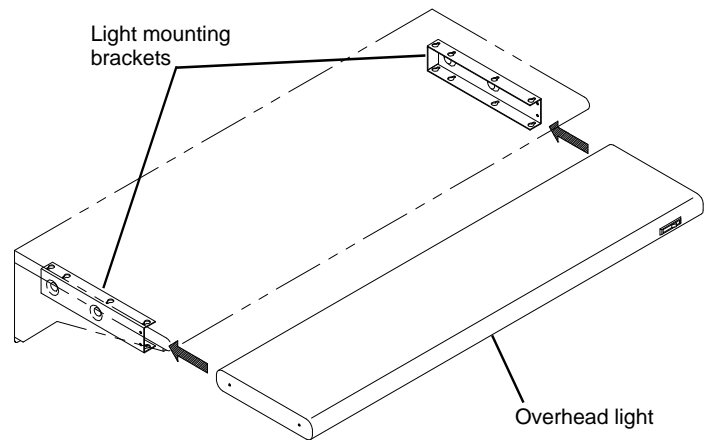


Figure 3

7. Attach an **End Stop** to the front of each light mounting bracket using the #10-24 x 3/8" thread forming screws provided. See **Figure 4**.

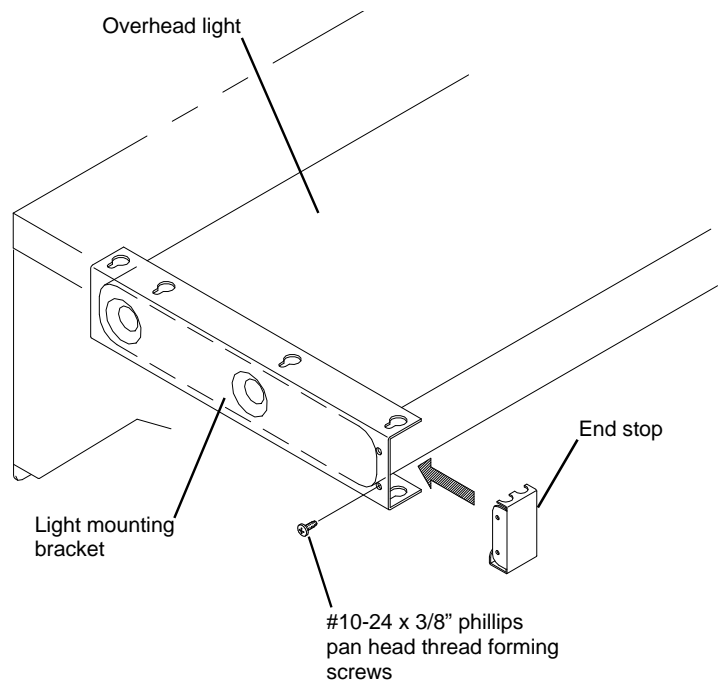


Figure 4

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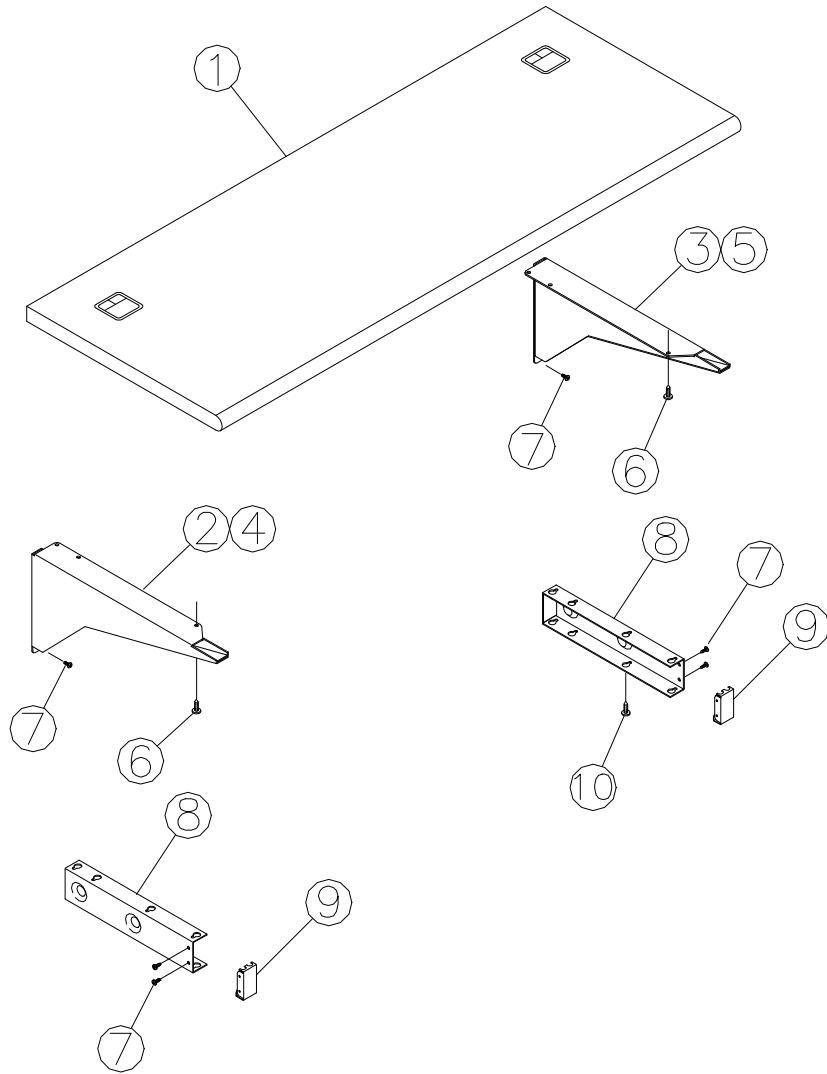
# L a m i n a t e H o o k - o n S h e l v e s w i t h O v e r h e a d L i g h t ( c o n t . )

| Parts List  |                              |                              |   |
|-------------|------------------------------|------------------------------|---|
| Part Number | Description                  | Qty.                         |   |
| 1           | 2993X                        | Laminate Shelf, 36"x 18"     | 1 |
|             | 2995X                        | Laminate Shelf, 48"x 18"     |   |
|             | 2996X                        | Laminate Shelf, 60"x 18"     |   |
|             | 2997X                        | Laminate Shelf, 72"x 18"     |   |
|             | 3000X                        | Laminate Shelf, 36"x 24"     |   |
|             | 3002X                        | Laminate Shelf, 48"x 24"     |   |
|             | 3003X                        | Laminate Shelf, 60"x 24"     |   |
|             | 3004X                        | Laminate Shelf, 72"x 24"     |   |
|             | 3850X                        | Laminate Shelf, 36"x 18" ESD |   |
|             | 3852X                        | Laminate Shelf, 48"x 18" ESD |   |
|             | 3853X                        | Laminate Shelf, 60"x 18" ESD |   |
|             | 3854X                        | Laminate Shelf, 72"x 18" ESD |   |
|             | 3857X                        | Laminate Shelf, 36"x 24" ESD |   |
|             | 3859X                        | Laminate Shelf, 48"x 24" ESD |   |
|             | 3860X                        | Laminate Shelf, 60"x 24" ESD |   |
| 3861X       | Laminate Shelf, 72"x 24" ESD |                              |   |
|             | 2986X                        | Laminate Shelf, 36"x 12"     |   |
|             | 2988X                        | Laminate Shelf, 48"x 12"     |   |
|             | 2989X                        | Laminate Shelf, 60"x 12"     |   |
|             | 2990X                        | Laminate Shelf, 72"x 12"     |   |
|             | 3843X                        | Laminate Shelf, 36"x 12" ESD |   |
|             | 3845X                        | Laminate Shelf, 48"x 12" ESD |   |
|             | 3846X                        | Laminate Shelf, 60"x 12" ESD |   |
|             | 3847X                        | Laminate Shelf, 72"x 12" ESD |   |

| Parts List  |             |  |   |
|-------------|-------------|--|---|
| Part Number | Description | Qty.   |   |
| 2           | 8156X       | 8"x 11" Shelf Support - L.H.,<br>12" Deep Shelf        | 1 |
| 3           | 8157X       | 8"x 11" Shelf Support - R.H.,<br>12" Deep Shelves      | 1 |
| 4           | 8154X       | 8"x 17" Shelf Support - L.H.,<br>18"/24" Deep Shelves  | 1 |
| 5           | 8155X       | 8"x 17" Shelf Support - R.H.,<br>18"/24" Deep Shelves  | 1 |
| 6           | 82287       | #10AB x 5/8" Phillips Pan Head<br>Thread Forming Screw | 4 |
| 7           | 66714       | #10-24 x 3/8" Phillips Pan Head<br>Self Tapping Screw  | 6 |
| 8           | 8170X       | Light Mounting Bracket                                 | 2 |
| 9           | 8171X       | End Stop   | 2 |
| 10          | 59103       | #10AB x 3/4" Phillips Pan Head<br>Screws               | 4 |

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# L a m i n a t e H o o k - o n S h e l v e s w i t h O v e r h e a d L i g h t ( c o n t . )



**WARNING:** Electro static discharge can be dangerous to equipment and to persons if not properly dissipated. Read this supplement thoroughly for information on grounding precautions as well as general care and maintenance.

It is recommended that the **ESD Top** be grounded by a certified electrician and tested before it is used. It is important to insure a proper ground to minimize the possibility of damage to equipment and person.

### ESD GROUNDING

1. The point of ground for the ESD Top is installed at the factory. A **Ground Wire** should be attached to the **Grounding Bolt** with the other end attached to the facility electrical ground. See **Figure 1**.
2. Each ESD Worksurface and Shelf comes with only one grounding point. Surfaces should be connected to ground in parallel and should not be connected to each other in series.

When tightening the nut onto the Grounding Bolt, **DO NOT OVER TIGHTEN**. Hand tighten + 1/4 turn.

3. Once the ESD ground is established, it is important to test the system. Periodic checks of the system are recommended to ensure the integrity of the system. Monitoring devices may be used to alert persons when the integrity of the system has been compromised.
4. Enviromental factors, especially temperature and humidity, have a drastic effect on the resistive properties of the ESD Worksurfaces.

### CARE AND MAINTENANCE

1. When cleaning the surface becomes necessary, it is important to use non-abrasive cleaners only. If the surface is stained, baking soda and water may be used to remove the stain but excessive scrubbing may damage the surface.
2. It is important that no film or residue be left on the surface of the ESD Top. Failure to thoroughly clean the surface will reduce the dissipative properties of the laminate.

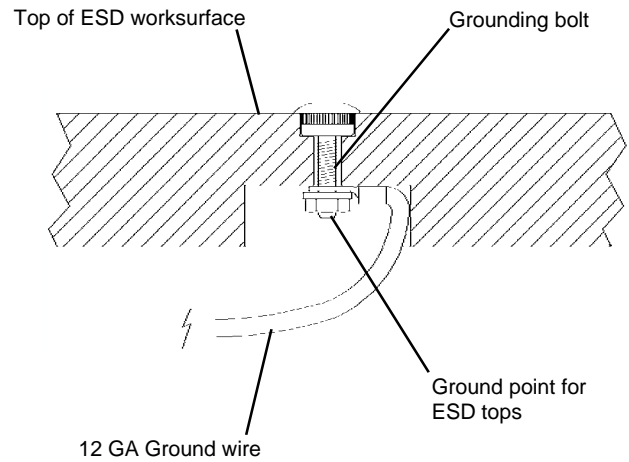
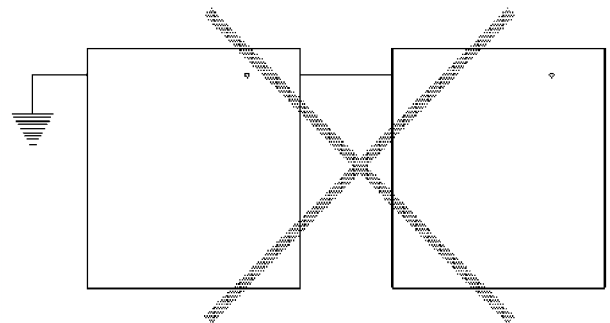
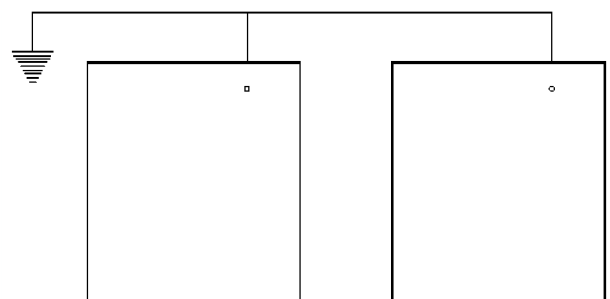


Figure 1



Improper grounding arrangement

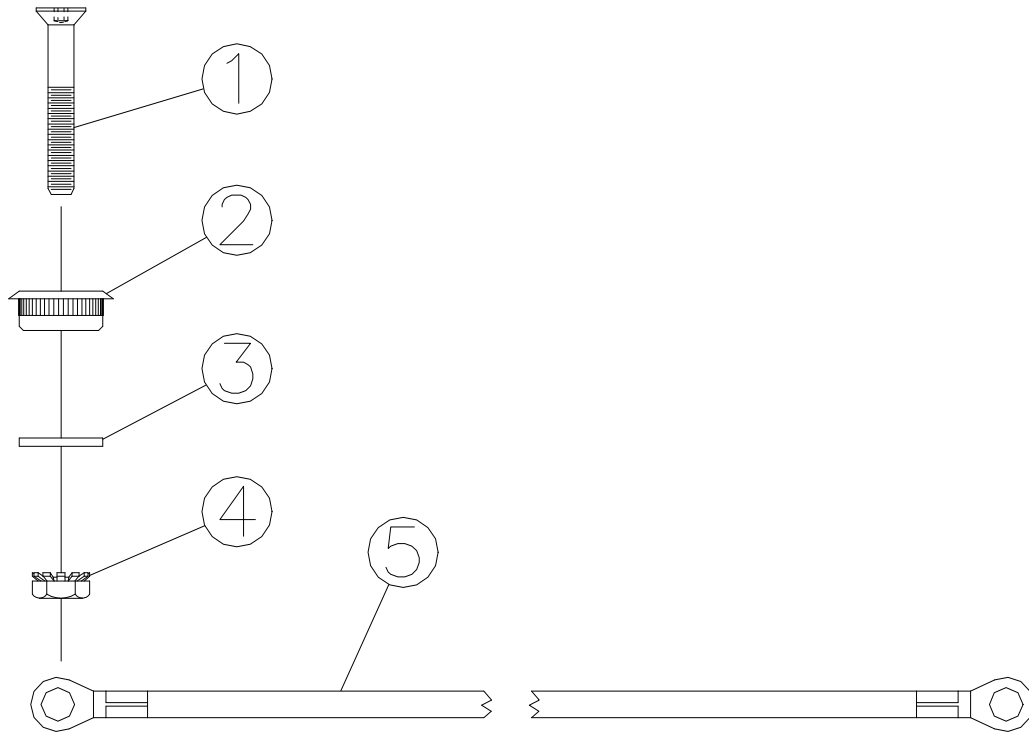


Proper grounding arrangement

Figure 2

# ESD Laminate ( c o n t . )

| Parts List  |       |  |      |
|-------------|-------|--|------|
| Part Number |       | Description                              | Qty. |
| 1           | 84008 | #8-32 x 1.00" Socket Flat Head Cap Screw | 1    |
| 2           | 86274 | Brass Insert                             | 1    |
| 3           | 54225 | Plain Type A Washer                      | 1    |
| 4           | 18244 | Keys Lock Nut                            | 1    |
| 5           | 84007 | 12 GA Grounding Wire                     | 1    |

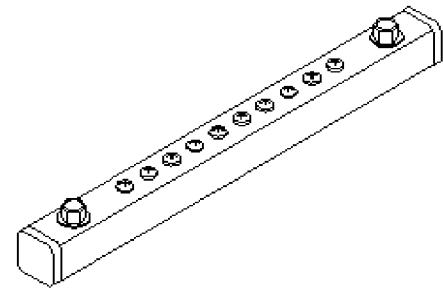


**Tools Required**

- Electric drill with 7/32" drill bit
- 3/8" Wrench

**NOTE:** The **Grounding Bus Bar** can be located anywhere on a Full Frame, but the recommended location is on top of the Frame bottom rail. It is also recommended that the Bus Bar be placed in the center of a Frame member. If Tech Walls are used, the Bus Bar will fit in between the panels.

1. Using the Bus Bar as a template, drill two .221 diameter holes into the Frame bottom rail.
2. Install the Bus Bar using the two 1/4"-20 Self tapping hex washer head screws. See **Figure 1**.



Grounding Bus Bar  
#LA6500

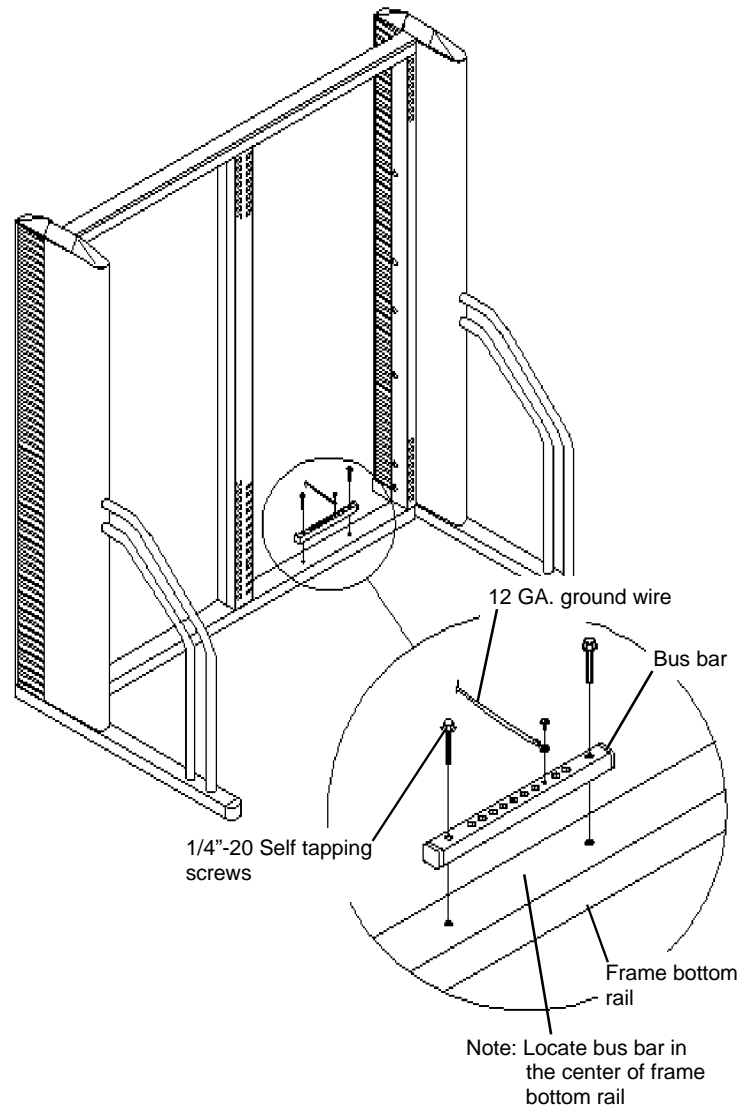


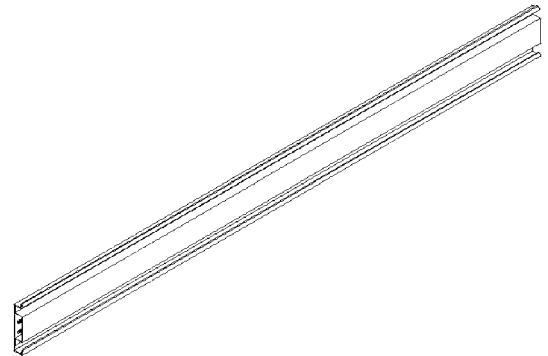
Figure 1

**Tools Required**

- Phillips head screwdriver
- Plastic mallet

1. Select the desired height for the **Bin Rail**. Attach the Bin Rail to the frame by inserting the hooks on the back of the Bin Rail into the trapezoidal slots in the Full Frame. See **Figure 1**. To assure that the hooks are fully seated, tap the top rear corners with a plastic mallet. See **Figure 2**.
2. Drive one #10 Phillips head screw (provided) into each end of the Bin Rail to lock it in place. See **Figure 2**.

**NOTE:** The maximum weight capacity of the Bin Rail is 200 lbs.



60" and 72" Bin Rail

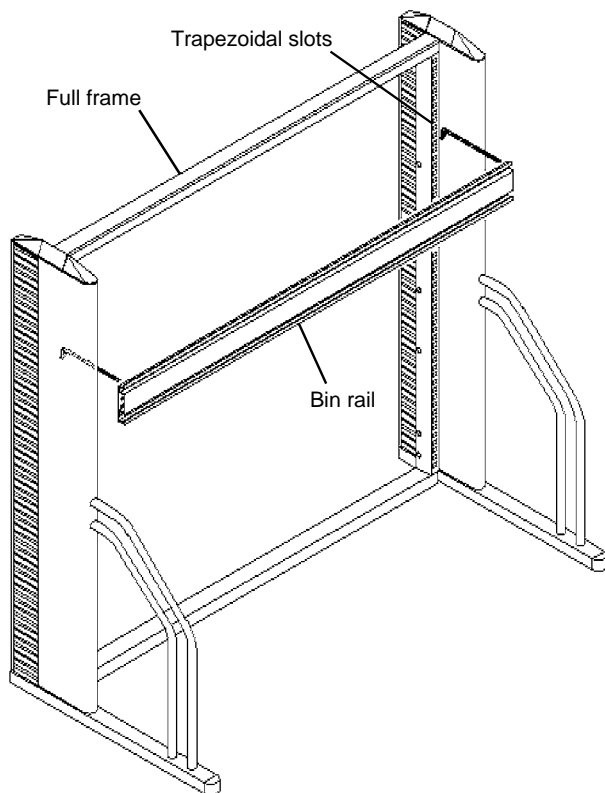


Figure 1

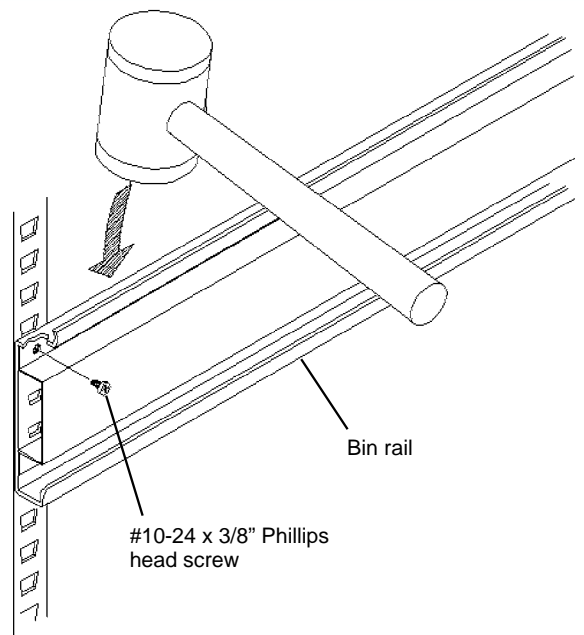


Figure 2

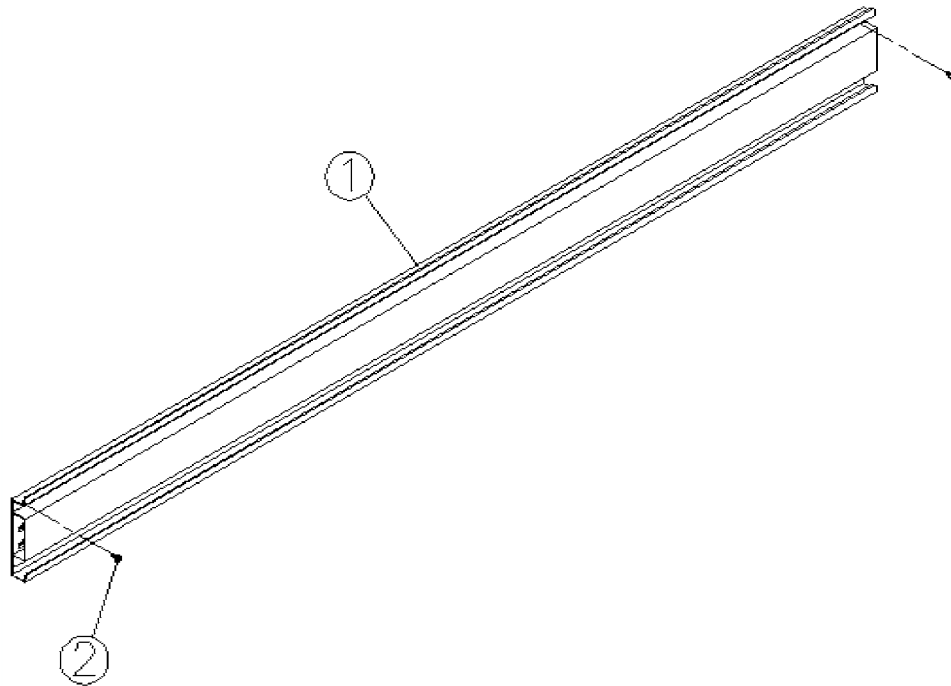


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# 72" Bin Rail ( c o n t . )

## Parts List

| Part Number | Description                           | Qty. |
|-------------|---------------------------------------|------|
| 1 5952X     | 72" Bin Rail                          | 1    |
| 2 66714     | #10-24 x 3/8" Phillips Pan Head Screw | 2    |





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