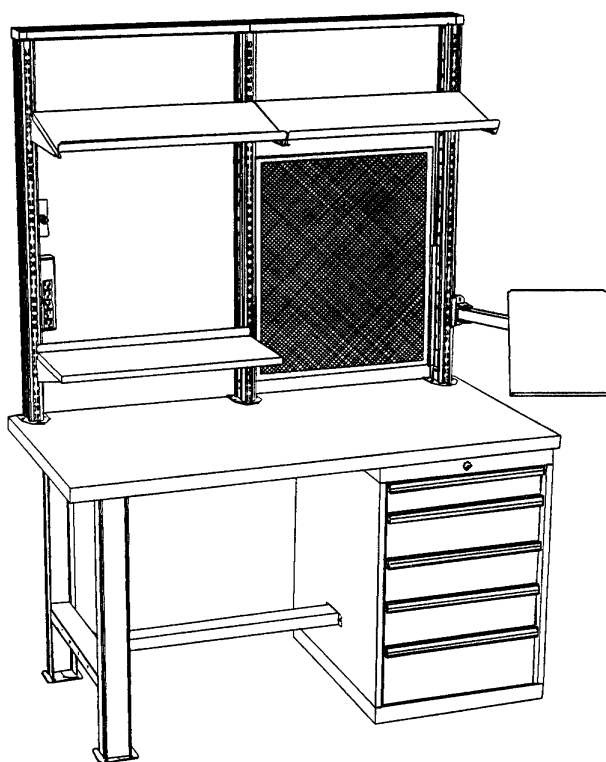
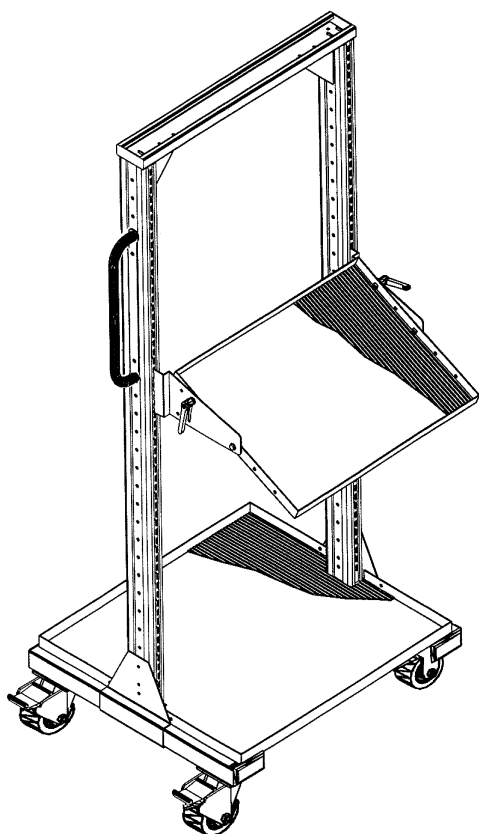


Chapter 3

Installing FlexWorks Accessories

This chapter provides step-to-step instructions for assembling and installing the FlexWorks accessories. Most accessories fit both the FlexWorks FloorStand and workbench unless otherwise indicated.



Assembly Instruction for FlexWorks Accessories

SAFETY PRECAUTIONS

VERIFY THAT ALL HARDWARE IS TIGHTENED PROPERLY AND BRACKETS ARE SECURELY ATTACHED TO UPRIGHTS BEFORE LOADING

DO NOT EXCEED THE MAXIMUM LOAD CAPACITIES FOR THE FOLLOWING FLEXWORKS ACCESSORIES:

<u>COMPONENT</u>	<u>MAX. LOAD CAPACITY (LBS)</u>
ADJUSTABLE SHELF	50
VARIABLE ANGLE SHELF	150
MONITOR ARM	50
DOCUMENT HOLDER	15
LG. DOCUMENT HOLDER	15
ACCESSORY TRAY	15
OVERHEAD LIGHT BRACKET	90
SWING ARM TOOL RAIL	30

REQUIRED TOOLS

Phillips Head Screwdriver

Flathead Screwdriver

Rubber Head Mallet

Adjustable Wrench

Socket Wrench

Allen Head Wrench Set

Adjustable Shelf (Refer to Figure 3 -3)

- 1 Determine the height placement of the Adjustable Shelf.
- 2 Tilt each Bracket ② up (approximately 60° angle) so that the upper tab inserts into the inner slots of each Upright. Tilt Bracket ② down so that the bottom tabs insert into slots as well. Place the Shelf Brackets ② in one of two positions:
 - a) For a straight shelf, position the brackets perpendicular to the Uprights.
 - b) For an angled shelf, position the brackets tilted forward.
- 3 Position the Shelf ① over the Brackets ②:
 - a) For a straight shelf, position the shelf so that the lip is in back
 - b) For an angled shelf, position the shelf so that the lip is in front
- 4 Align the slots underneath the end of each Shelf ① onto the top of each Bracket ②. Slide the Shelf back and into the front cutout slot of each Bracket.
- 5 Slide the Shelf ① all the way back until it drops down. Lift the Shelf ① slightly up and pull forward until it fits securely on the Brackets ②.
- 6 If Dividers are included. Align channel on the front of Divider with the front lip of shelf. Slide divider onto shelf. (not shown)

Variable Angle Shelf (See to Figure 3-4)

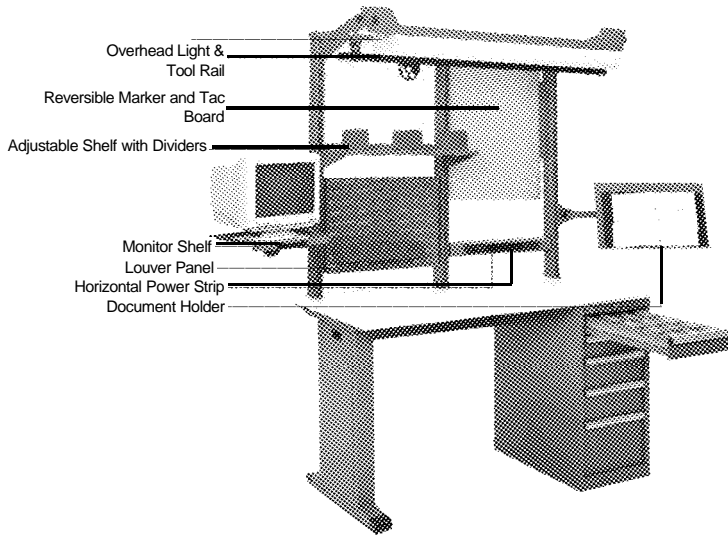
- 1 Place the left and right Brackets ② on each side of the Variable Angle Shelf ①.
- 2 Position each Bracket ② in one of the 3 positions (centered (shown), forward, or set back) by lining up the hole patterns on the Shelf ① with those on each Bracket ②.
- 3 Insert a 5/16 - 18 x 5/8" Whiz Lock bolt ⑥ in each Bracket ② and Shelf. Secure loosely with a 5/16"-18 Square nut ④. (This is Shelf pivot point)
- 4 Secure Bracket ② to Shelf using Adjusting Lever ③ and a 1/4" Flat Washer ⑤.

Attaching the Variable Angle Shelf

- 1 Determine the height of the Variable Angle Shelf in the FlexWorks Upright.
- 2 Tilt the front of each Bracket ② up (at a 60° angle) so that the upper tab inserts into the slots of each Upright.
- 3 Using a rubber mallet, gently tap each Bracket ② to insure a secure fit.
- 4 Insert the black vinyl mat ⑦.

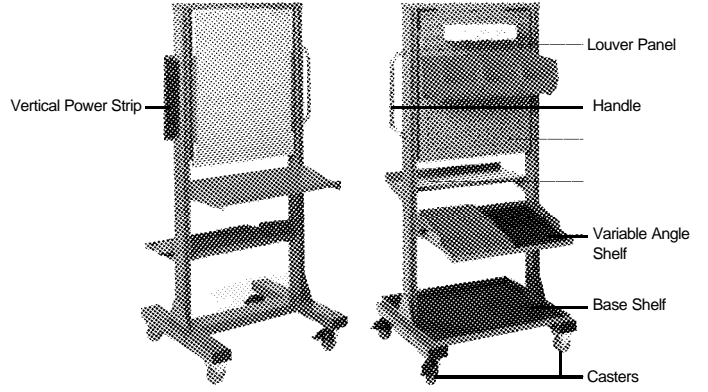
Note: If two Variable Angle Shelves are installed in adjacent FlexWorks uprights, replace the Adjusting Lever ③ with a 5/16 - 18 x 5/8" Whiz Lock bolt.

Figure 3-1



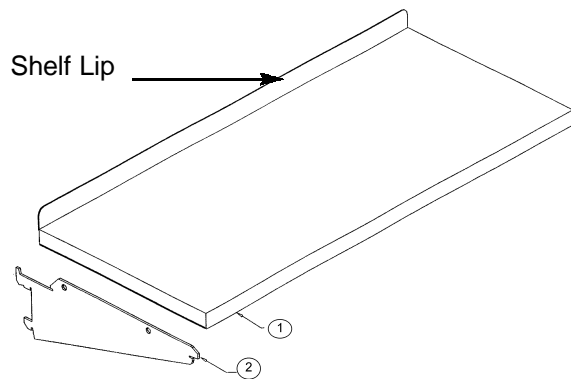
FlexWorks Accessories

Figure 3-2



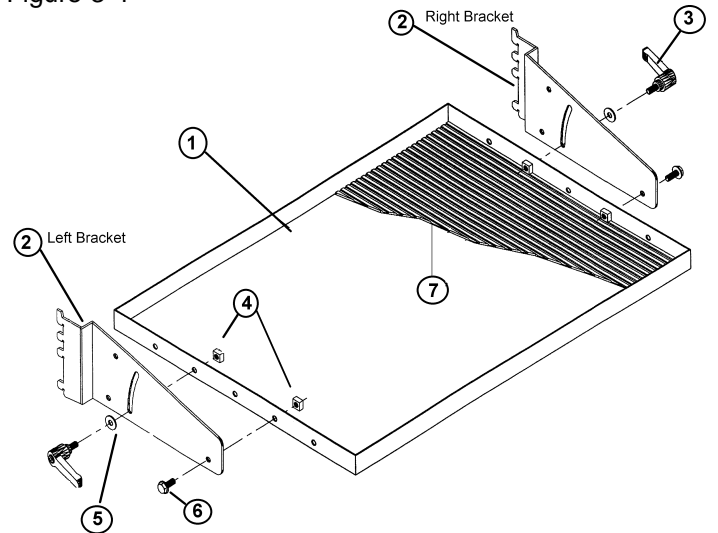
FloorStand Accessories

Figure 3-3



Adjustable Shelf

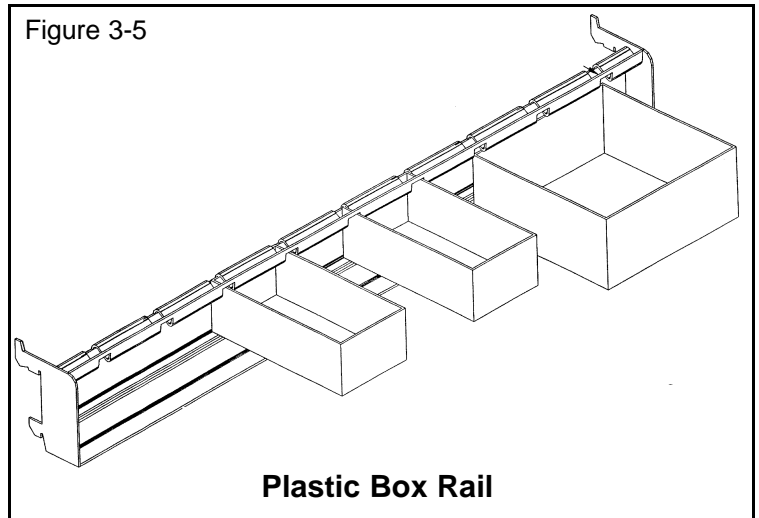
Figure 3-4



Variable Angle Shelf

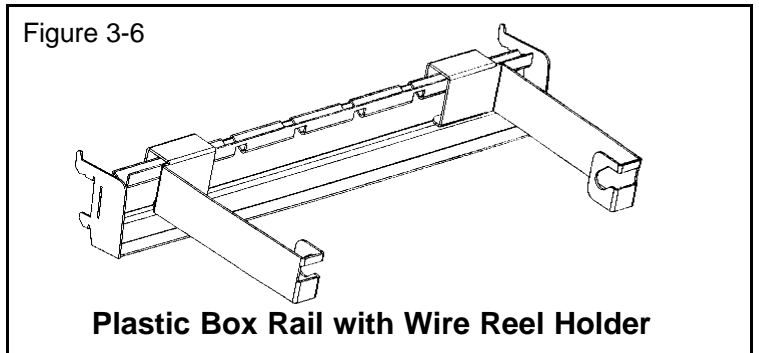
Plastic Box Rail /Wire and Cable Reel Holders (See Figures 3-5 and 3-6)

- 1 Determine the height placement for the Plastic Box Rail /Wire and Cable Reel Holder.
- 2 Tilt the Rail up (approximately 60° angle) so that the upper tabs insert into the inner slots of the Uprights.
- 3 Insert the lower tabs of each Bracket into the Upright slots. You can mount the Plastic Box Rail and Reel Holders parallel to the unit, or on a 15° angle.
- 4 Insert 2" and/or 3" plastic Lista boxes. If attaching Wire and Reel Holders, slide the Reel Holder over the top of the rail until it fits securely, then tighten the Wing nuts on the back of Reel Holder.



Air Chuck Assembly (See Figure 3-7)

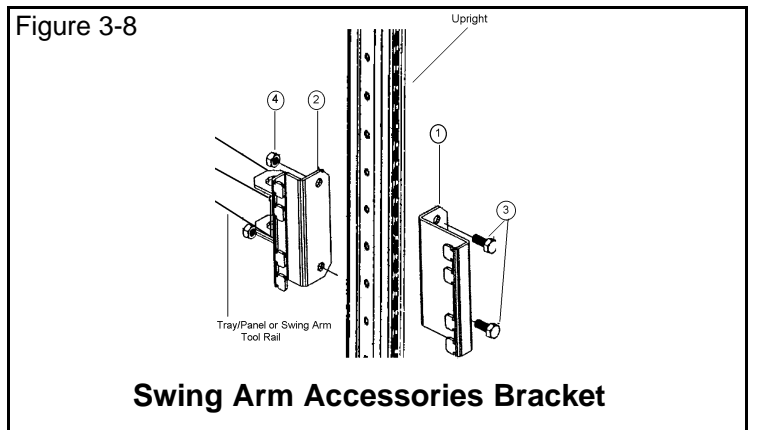
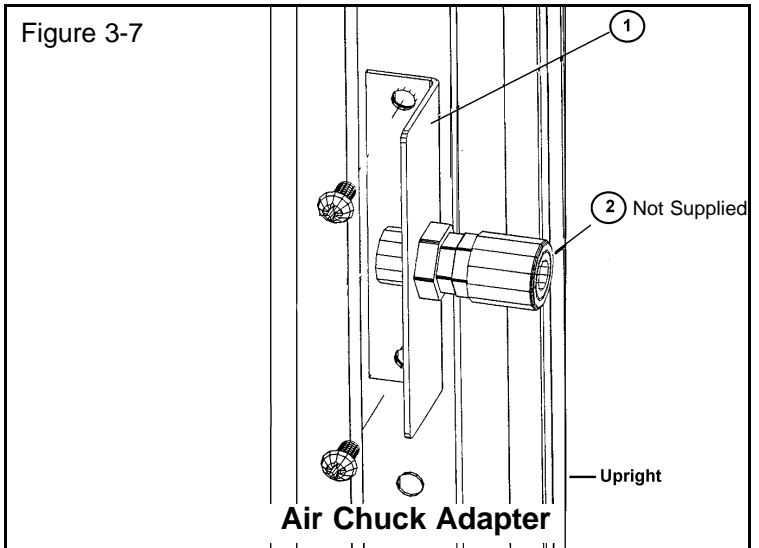
- 1 Attach the Air Bracket ① to the Upright at the desired height using two ¼-20 x ½" Phillips Head Round screws ④.
- 2 Insert the Air Chuck (② not supplied) into the hole of the Air Bracket.
- 3 Secure the Air Chuck ② to the Air Bracket ① using the Chuck Coupler.



Swing Arm Accessories (See Figure 3 -8)

Lista provides the Monitor Tray, Document Panel, Accessory Tray, and Swing Arm Tool Rail pre-assembled. The instructions for attaching each of these accessories to the unit are identical.

- 1 Insert the tabs of the Arm Clamp Bracket ① into the back outer slots of the FlexWorks Upright.
- 2 Insert the tabs of the Swing Arm Bracket ② into the front outer slots of the Upright so brackets are aligned. Using a rubber mallet, gently tap each bracket securely into the Upright.
- 3 Tightly secure the brackets using two 5/16 - 18 x ¾" Hex Head bolts ③ and two 5/16"- 18 Kep Nuts ④.



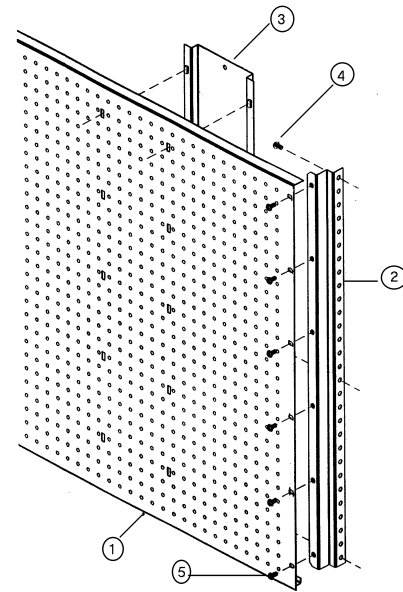
Panels (See Figure 3-9)

The following provides step-by-step instructions for attaching Pegboard, Privacy, and Louvered-Panels to the unit. The instructions are identical for each type of panel. Panels can be attached to each side of the FlexWorks® frame on either the FloorStand or Workbench.

- 1 Attach the Panel Brackets ② onto the inside of each FlexWorks Upright at the desired height and secure with three $\frac{1}{4}$ x $\frac{1}{2}$ " Phillips Head Round screws ④. (One at the top, center, and bottom).
- 2 Attach the Panel Stiffener ③ to the back of the panel, as shown, by sliding the tabs into the slots of the panel.
- 3 Attach the Panel ① (with the lip end up) onto the Panel Brackets ② using $\frac{1}{4}$ - 20 x $\frac{1}{2}$ " Phillips Head Round screws ⑤.
- 4 If you have two back to back Panels ① with Panel Stiffeners ③, attach the Panel Stiffener ③ to the 2nd panel before attaching the panel to the Panel Bracket ②.

Note: Panel Stiffeners are only provided for panels 18" or higher.

Figure 3-9



Louver or Pegboard Panels

Tac/Marker Board (See Figure 3-10)

- 1 Attach the Board Retainer Brackets ② to the FlexWorks Uprights at the desired height using $\frac{1}{4}$ x $\frac{1}{2}$ " Pan Head screws ④.
- 2 Attach and hand-tighten one Board Clamp Bracket ③ to the Board Retainer Bracket ② using $\frac{1}{4}$ x $\frac{1}{2}$ " Pan Head screws ④.
- 3 Slide the Tac or Marker Board ① in between the Board Retainer Bracket ② and the Board Clamp Bracket ③. Hold the board in place and attach the other Board Clamp Bracket ③. Position the Tac or Marker Board ① at the desired height and securely tighten the $\frac{1}{4}$ x $\frac{1}{2}$ " Pan Head screws ④.

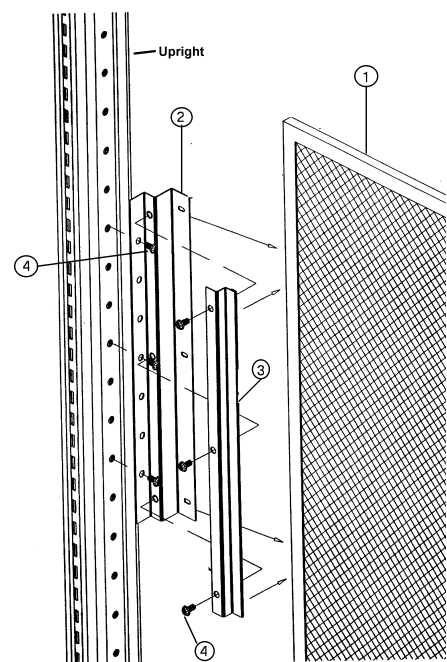
Back Stops (Workbench Only)

The Back Stop is installed in front or rear FlexWorks slots to prevent items from falling off the back of the workbench.

(Not Shown)

- 1 Insert the tabs of the Back Stop into the front or rear slots of the FlexWorks Upright so that the Back Stop is perpendicular to the work surface. The tabs of the Back Stop will drop down into the slots of the Uprights. Gently tap down with a rubber mallet if necessary.

Figure 3-10



Tac/Marker Board

SAFETY PRECAUTIONS

THIS METHOD FOR INSTALLING THE OHC IS FOR STATIC (NON-MOBILE) APPLICATIONS ONLY.

THE OHC MUST BE INSTALLED USING THE FLEXWORKS MOUNTING RAILS PROVIDED.

INSTALLING AND REMOVING THE OHC REQUIRES AT LEAST 2 PEOPLE.

TWO MOUNTING RAILS MUST BE USED FOR EACH OVERHEAD CABINET.

MAKE SURE THE TWO MOUNTING RAILS ARE LEVEL AND INSTALLED CORRECTLY BEFORE INSTALLING THE OHC.

SAFETY GLOVES MUST BE WORN WHEN INSTALLING OR REMOVING THE OVERHEAD CABINET (OHC).

THE MOUNTING RAILS MUST BE INSTALLED ONLY ONTO LISTA FLEXWORKS.

VERIFY THAT THE FLEXWORKS FRAME IS NOT DAMAGED AND PROPERLY INSTALLED PRIOR TO INSTALLING OHC.

DO NOT OVERLOAD OVERHEAD CABINET BEYOND THE RATED LOAD CAPACITY 40 LBS. PER LINEAR FT. OR 150 LBS. MAXIMUM PER SHELF. 200 LBS. MAXIMUM FOR BOTTOM SHELF.

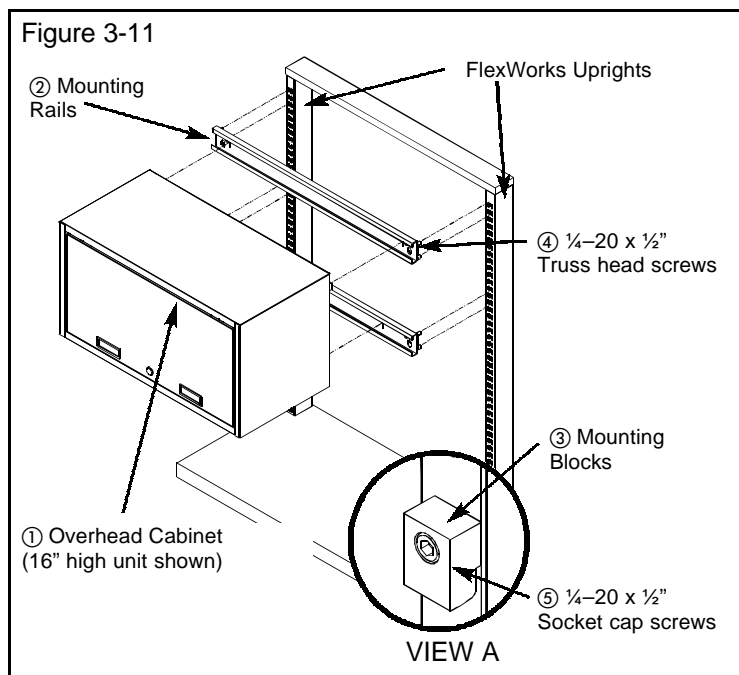
CAPACITY RATING APPLICABLE TO MOUNTING ON LISTA PROVIDED WORK SURFACES.

DO NOT PLACE ANY ITEMS ON TOP OF OVERHEAD CABINETS.

YOU MUST INSTALL SAFETY SCREWS TO PREVENT OHC FROM LIFTING OFF OR SLIDING OFF THE MOUNTING RAILS

TOOLS NEEDED FOR INSTALLATION:

- Safety Gloves
- Tape Measure
- Flat-Head Screwdriver
- Phillips-Head Screwdriver
- Allen Wrench Set



COMPONENTS LIST

- ① Overhead Cabinet (OHC)
- ② Mounting Rails (2 per OHC)
- ③ Mounting Blocks (4 per OHC)
- ④ ¼ – 20 x ½" Truss Head Screws (4)
- ⑤ Mounting Rail Brackets (4)
- ⑥ ¼– 20 x ½" Socket Cap Screws
- ⑦ #10-24 x ½" thread forming screws (4)
- ⑧ Canopy Top
- ⑨ Canopy Top Filler Panel
- ⑩ Adjustable Shelf

INSTALLING OVERHEAD CABINETS ON FLEXWORKS® (see Figures 3-11 to 3-15)

1 Verify that Flexworks frame is not damaged and properly installed (see Chapter 1 of this booklet).

2 Position Top Mounting Rails ② in desired position using inner row of slots in the FlexWorks upright.

Note: If using OHC with an overhead light or tool bracket, mount the top rail down at least 11 slots.

3 Mount Rail Brackets ⑤ to Mounting Rails ② using ¼–20 x ½" truss screws. Set two screws in the extreme lowest position for the Upper Mounting Rail. Set two screws in the extreme highest position for the Lower Mounting Rail. Tighten screws fully. (See Figure 3-12 View B)

4 Place the bottom mounting rail ② in position based upon the height of the overhead cabinet ① (See Figure 3-13)

— For the 16" high OHC: 13 slots down from top of the Top Rail

— For the 29" high OHC: 26 slots down from top of the Top Rail

5 Install the four Mounting Blocks ③ using the ¼–20 x ½" Socket Cap Screws in the rear of the OHC ①. (See Figure 3-11 VIEW A)

6 Install the OHC ① so the grooves of the Mounting Blocks ③ fit snugly over the lower edge of both Mounting Rails ②. Center OHC ① on Mounting Rails ②. (See Figure 3-15 and View C)

7 To prevent the OHC from lifting off or sliding off Mounting Rails ②, insert four #10-24 x ½" screws ⑦ (See Figure 3-14)

Installing Canopy Top (Optional)

1 Attach the Filler Panel ⑨ to canopy top using #10–24x½" thread forming screws ⑦.

2 Remove the backing from the double sided tape already attached to the bottom of the Canopy Top ⑧.

3 Attach the Canopy Top ⑧ to the top of the OHC ①.

Moving/Installing Adjustable Shelf

1 Locate the Shelf-mounting Bracket under right side of the Adjustable Shelf ⑩.

2 Slide the Mounting Bracket away from the housing while pushing up on the shelf.

3 To re-install shelf, locate fixed end in the appropriate slot and slide mounting bracket towards housing until fully engaged.

Figure 3-12

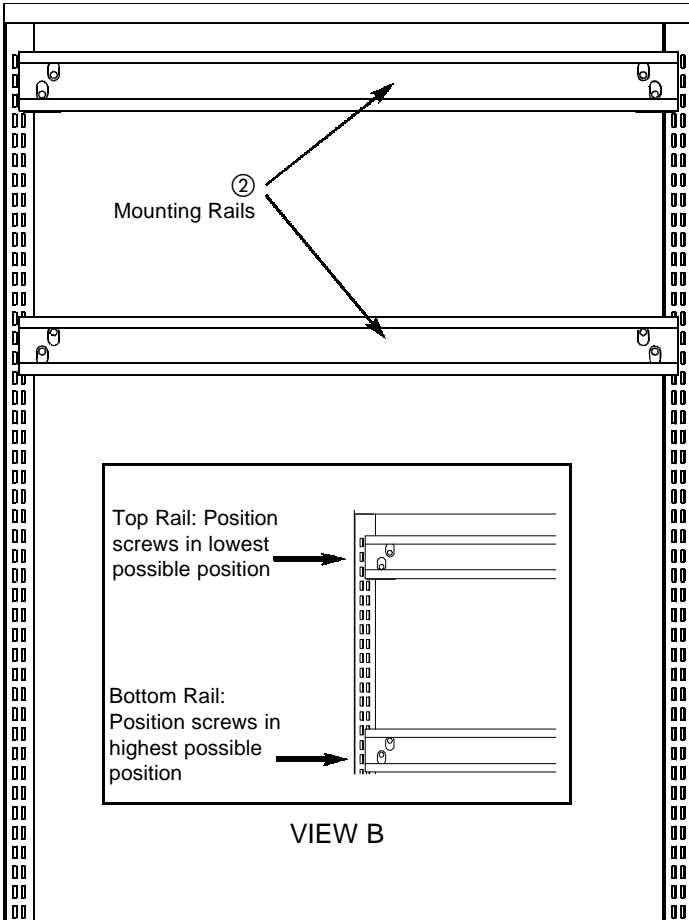


Figure 3-13

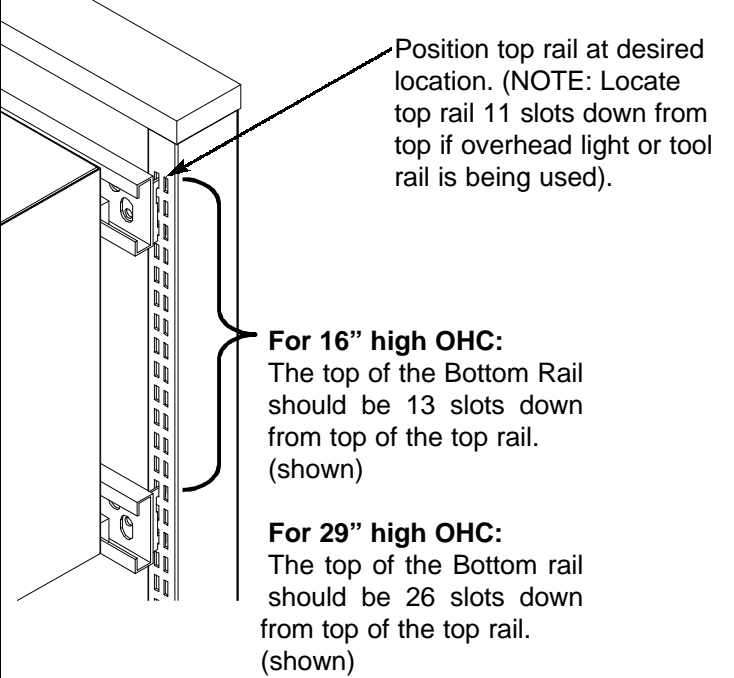


Figure 3-14

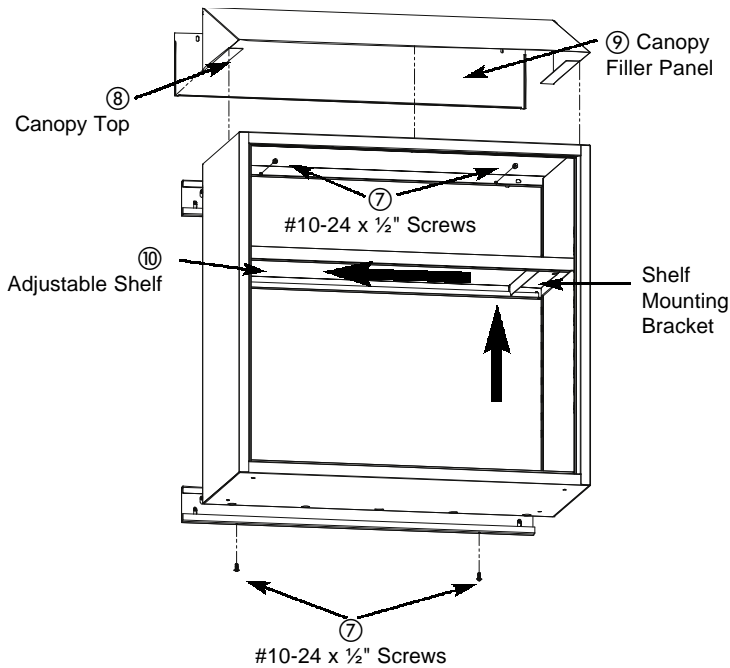
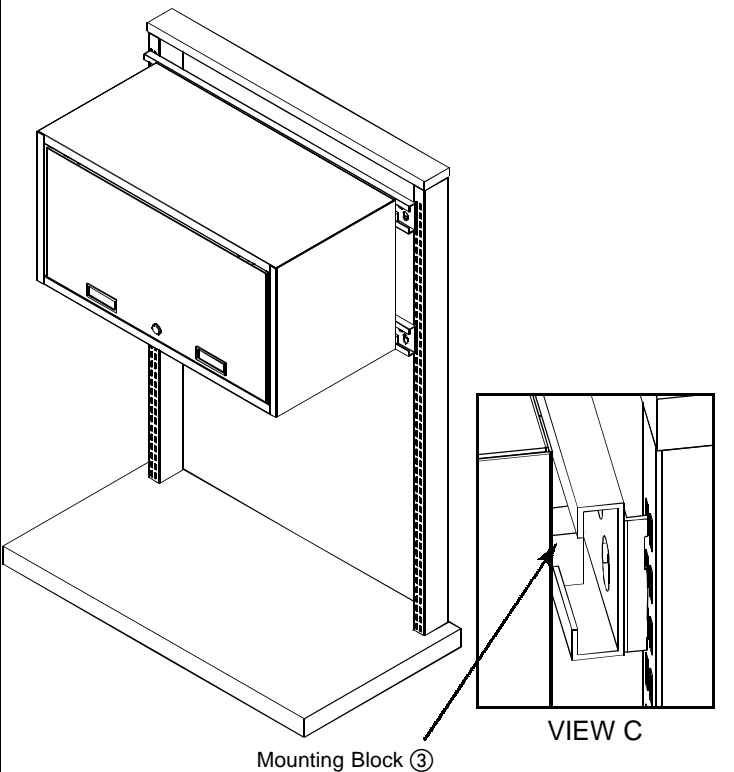


Figure 3-15



SAFETY PRECAUTIONS

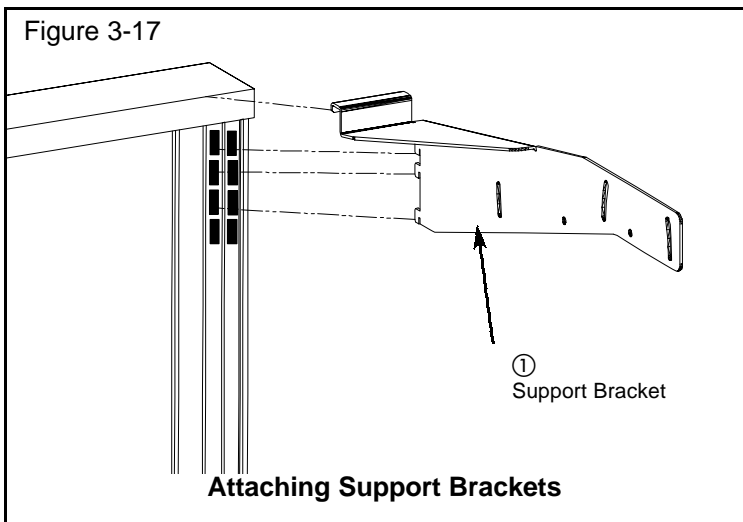
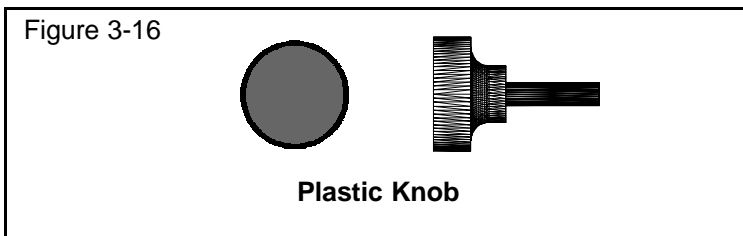
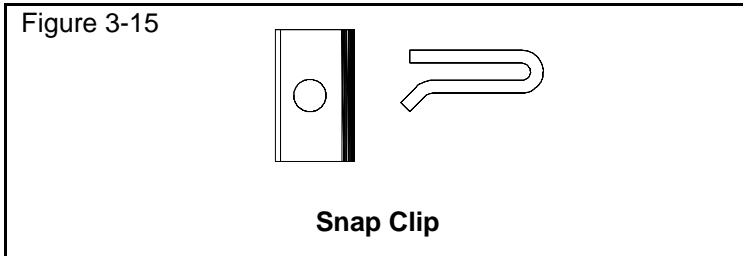
TWO PEOPLE ARE REQUIRED FOR INSTALLING OVERHEAD LIGHT

MAXIMUM CAPACITY OF SUPPORT BRACKETS IS 90 LBS.

UN-PLUG LIGHT FIXTURE BEFORE CHANGING LIGHT BULBS

HARDWARE SHOULD BE SECURELY FASTENED

Unique Parts for Overhead Light and Tool Rail



Overhead Light and Tool Rail

The overhead light assembly is available in 3 configurations:

1. For FlexWorks frames 21" to 48" wide (Config. A)
2. For FlexWorks frames from 48" to 90" wide (Config. B)
3. For continuous FlexWorks sections (Config. A or B)

Attaching the Support Brackets to FlexWorks Frames (see illustration 1)

1. There is a right and left handed support bracket. Insert each bracket so that the upper tab inserts fit into the upper most inner slots of each FlexWorks upright.
2. Tap the top of support bracket down to fit snugly over the cross-member of the FlexWorks frame.

Light Assembly

Configuration A (OHL/48-1)

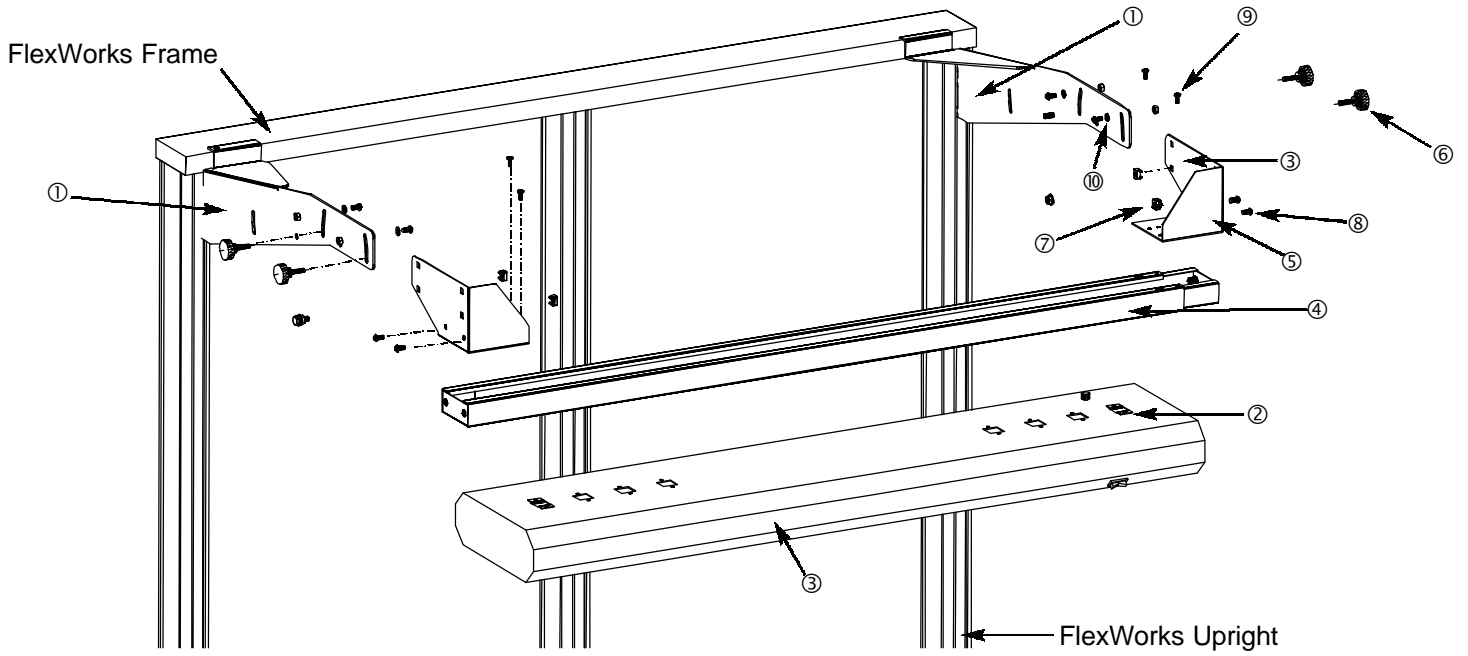
Use these instructions if you have a FlexWorks starter frame (39", 45" or combinations of 21"/21" or 21"/27" frames. If you have FlexWorks starter frames from 21 to 39", use Configuration A-N on next page.

- 1 Place light housing with lights facing down on workbench.
- 2 Snap two snap clips ② into the rectangular slots in the top of light housing that match the width of the frame (See Figure 3-19)
- 3 Align left and right light pivot brackets ⑤ as shown in illustration (3-21). Attach brackets with two #10 phillips head screws into snap clips ②.
- 4 Insert two square nuts ⑦ into square holes on the inside of light mounting brackets ⑤. (See Figure 3-18)
- 5 Using two people, lift light assembly with pivot brackets up to align with either the inner or outer curved slots in the end of support brackets ①.

Note: You have the option of hanging the light from two different mounting positions of the support brackets.

- 6 Insert plastic knob ⑥ through curved slots of the support bracket ① into the square nuts ⑦ of one pivot bracket and loosely tighten. Repeat for the other side. (See Figure 3-18)
- 7 Align light assembly to the desired angle and tighten knobs.
- 8 Plug light into FlexWorks power strip or wall outlet (110V/60 hz). Depress the rocker switch on front panel of light to turn the light on or off
- 9 If the light doesn't turn on, remove the diffuser panel of the light assembly by pushing one side up then angling the panel down and out. Check fluorescent light bulbs to see if they are installed properly and are not damaged. To remove bulbs, turn 90° degrees and slide straight down out of socket. Use 32W bi-pin T8 style bulbs.

Figure 3-18



- ① Support Brackets (2)
- ② Snap Clips (4)
- ③ Light Assembly
- ④ Channel Assembly (Config. B only)
- ⑤ Pivot Brackets (2)
- ⑥ Plastic Knobs (4)
- ⑦ Square Nuts (4)
- ⑧ Thread Forming Screws #10-24 x 1/2" (4)
- ⑨ Phillips Head Round Screws 1/4-20 x 1/2" (8)
- ⑩ 1/4-20 x 1/2" Washers (4)

Figure 3-19

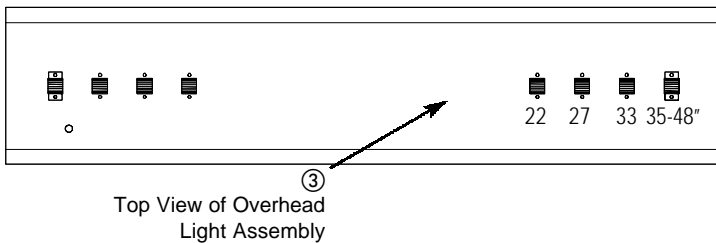


Figure 3-20

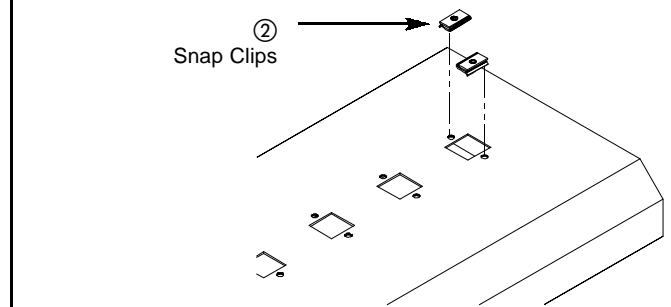
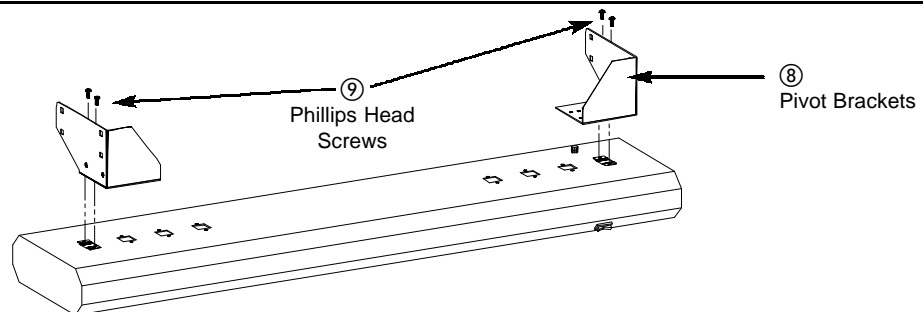


Figure 3-21



Narrow Installations A-N (FlexWorks frames width of 21" to 39") (see figure 3-22)

- 1 To aid to the stability of the overhead light when installed on narrow FlexWorks frames (21" to 39"), the light mounting brackets (5) must be reversed so that the threaded plastic knobs are on the inside of support brackets .

Configuration B

- 1 For widths from 49" to 90", a channel assembly is required. (See figure 3-23)
- 2 Adjust channel assembly (4) to match the width of the FlexWorks frames.
- 3 Insert panel clips in outer most rectangular slots in light assembly (2). (See figure 3-19 and 3-20)
- 4 Attach channel assembly (4) to light mounting brackets using two phillips head screws as shown in illustration (See figure 3-23).
- 5 Attach channel assembly (4) to light assembly (2) using 4-thread forming screws (8).
- 6 See instructions 6 to 10 in Configuration A.

Configuration C (See figure 3-24)

- 1 When mounting light assemblies on continuous sets of FlexWorks frames, support brackets for adjoining lights can share the same upright. Instead of using the threaded plastic adjusting knobs, you must use bolts and washers (2 for each support bracket).
- 2 Follow directions 1 to 6 from Configuration B to assemble light assembly and mounting brackets. Install the first light assembly using the 4 bolts and washers.
- 3 To install the second light assembly on the common post, have one person attach one end of the light assembly to the left support bracket by carefully pulling support bracket apart so you can install the next section. while the second person holds the light assembly. Repeat for other side.

Assembling the Overhead Tool Rail (See figures 3-29 and 3-30)

- 1 Slide each of the Tool Rail brackets over the end of the tool rail into a position aligned with the support brackets.
- 2 Attach the right angle adapter to the Tool Rail bracket with two hex head bolts and nuts.
- 3 Attach right angle adapters to one of three possible positions on support bracket (Position A, B or C). (see figure 3-30).
- 4 Attach adapter to support bracket with hex head bolt and nut.

Figure 3-22

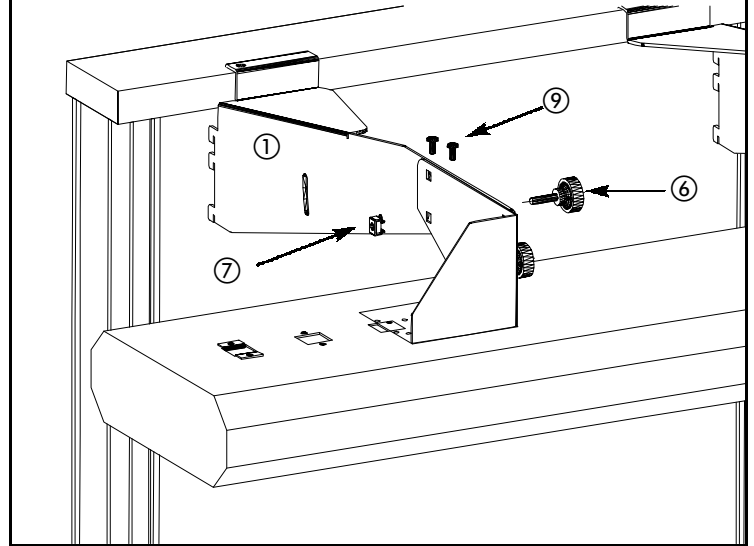


Figure 3-23

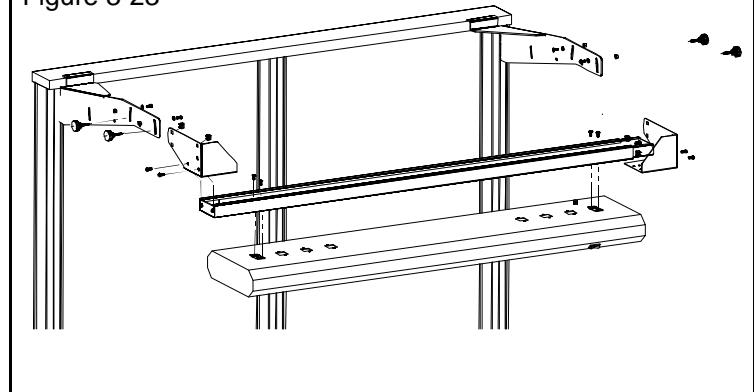


Figure 3-24

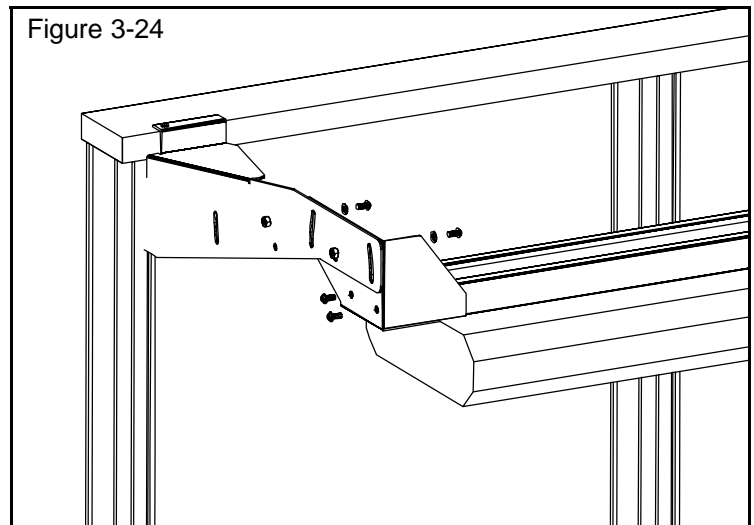


Figure 3-25

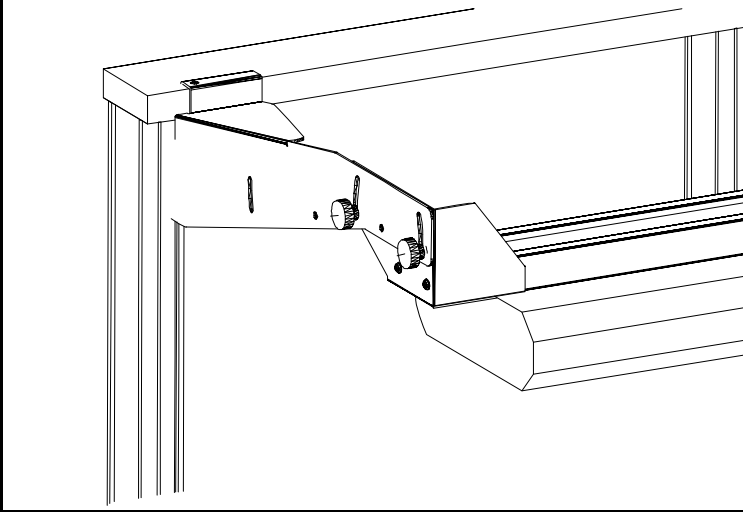


Figure 3-26

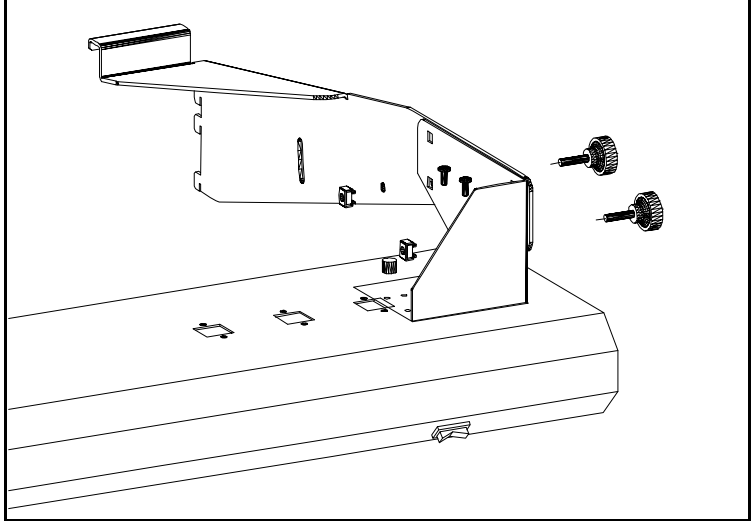


Figure 3-27

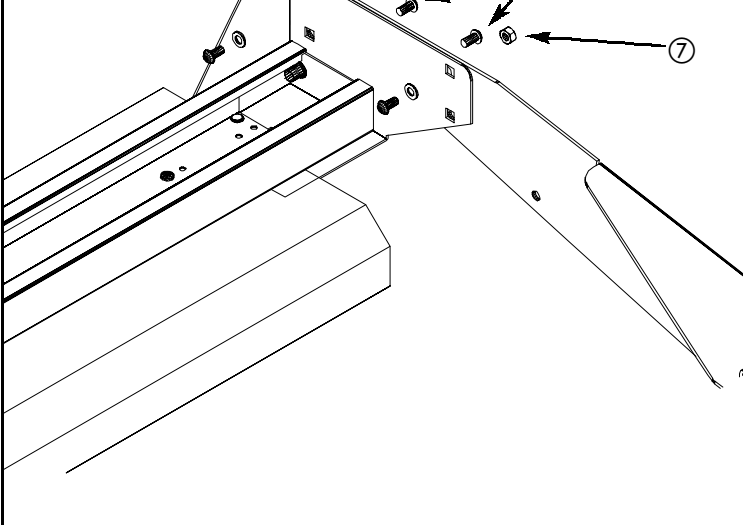


Figure 3-28

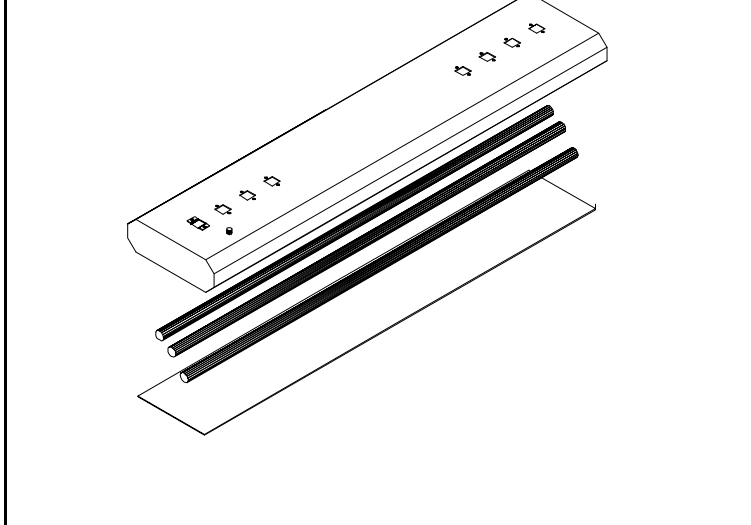


Figure 3-29

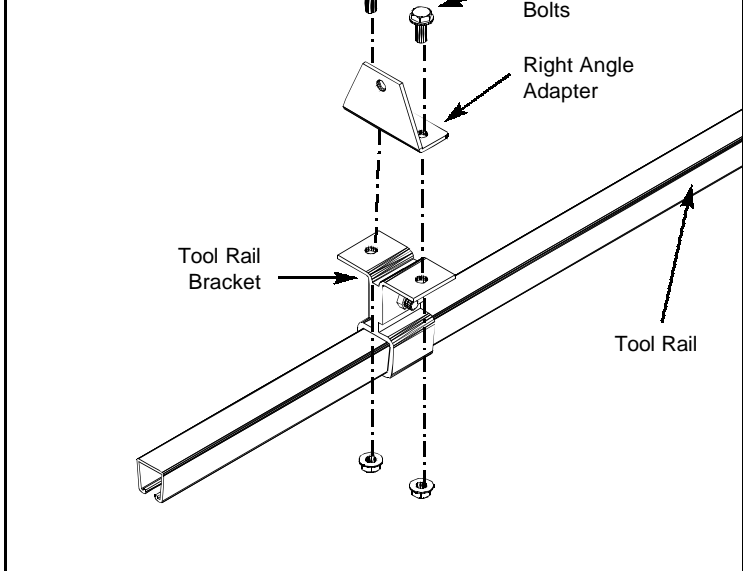
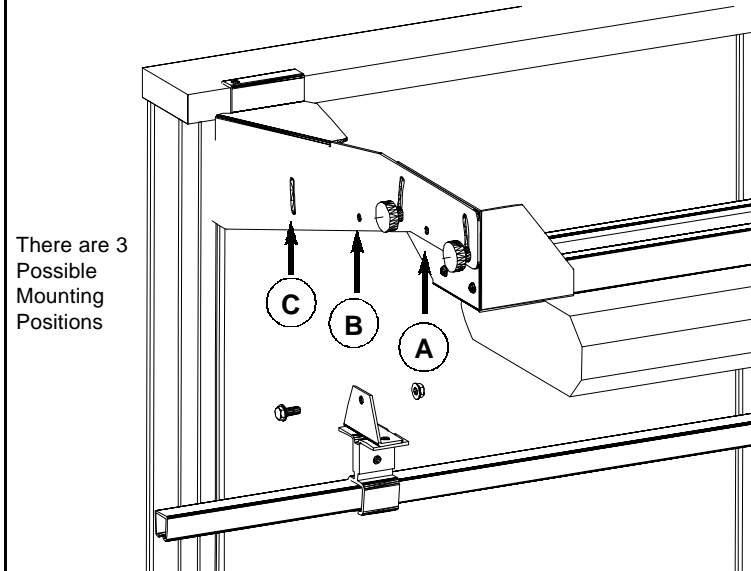


Figure 3-30



Horizontal Power Strip (See Figure 3-32)

- 1 Loosen the four Phillips Head screws ⑤ from the End Bracket ② of the Power Strip Housing ①.
 - 2 Determine the angle position of the Horizontal Power Strip and place a Phillips Head Thread-Forming screw ④ through the Upright Bracket ③ and into one of the five holes on each End Bracket ②.
 - 3 Determine the location of the power strip.
 - 4 Insert a ½"-20 Phillips Head screw (not shown) into the inside of each Upright. This will be the location on which the Horizontal Power Strip rests.
 - 4 Push the Upright Brackets ③ (attached to the End Brackets ②) into the assembly as far as possible.
 - 5 Angle the Horizontal Power Strip assembly in between the two Uprights and allow the Upright Brackets ③ to drop down onto the Phillips Head Round screws (from Step 3).
- Note:** You may want to slip a piece of paper in between the assembly and the Uprights during this installation to prevent the Power Strip assembly from scratching the Uprights.
- 6 Insert a Phillips Head screw through the top cutout of each Upright Bracket ③ and into each Upright.
 - 7 Tighten the four Phillips Head screws (two on each Upright) to securely attach the Horizontal Power Strip assembly to the Uprights. Tighten the four Phillips Head screws on each side of the End Brackets ②.

Vertical Power Strip (See Figure 3-33)

- 1 Mount the Bracket ② at the desired height on the Upright using two ¼-20 x ½" Phillips Head screws ③.
- 2 Mount the Power Strip ① to the Bracket ② using two ¼-20 x ½" Phillips Head screws ③ and locking nuts ④.

Handle (for Mobile Flexworks FloorStand Only) (See Figure 3-34)

- 1 Position the handle at the appropriate height on the FlexWorks FloorStand and secure with washers and Hex Head bolts.

NC Tool Holder Tray

Pre-Assembling and Attaching the NC Tool Holder Tray (See to Figure 3-35)

- 1 Attach the right and left Brackets ② to the NC Tool Holder Tray ① using two 5/16-18 x 5/8" Whiz Lock bolts ③ and two 5/16" Square nuts ③ for each side.

Note: To mount the NC Tool Holder Tray at an angle, attach the Tray ① to the Brackets ② at the highest hole pattern on the tabbed end of the Bracket. To mount the NC Tool Holder Tray perpendicular with the Upright, use the lowest hole pattern on the tabbed end of the Bracket ①.

- 2 Determine the height placement of the Tray ①.
- 3 Tilt each Bracket ② up (approximately 60° angle) so that the upper tab inserts into the slots of each Upright.
- 4 Using the rubber mallet, gently tap each Bracket ② to insure a secure fit.

Inserting the NC Tool Holder

(Not shown)

- 1 Slide the back of the Tool Holder into the opening of the NC Tool Holder Tray.
- 2 Push in the spring-loaded button and insert the front section of the Tool Holder into the NC Tool Holder Tray until it locks in place, then release the button.

Document Holder

Document Holders are designed to contain binders and letter size documents.

(Not shown)

- 1 Insert two ¼-20 x ½" Phillips Head Round screws through the Document Holder and into the outer cover of the Upright at the desired height.

Figure 3-32

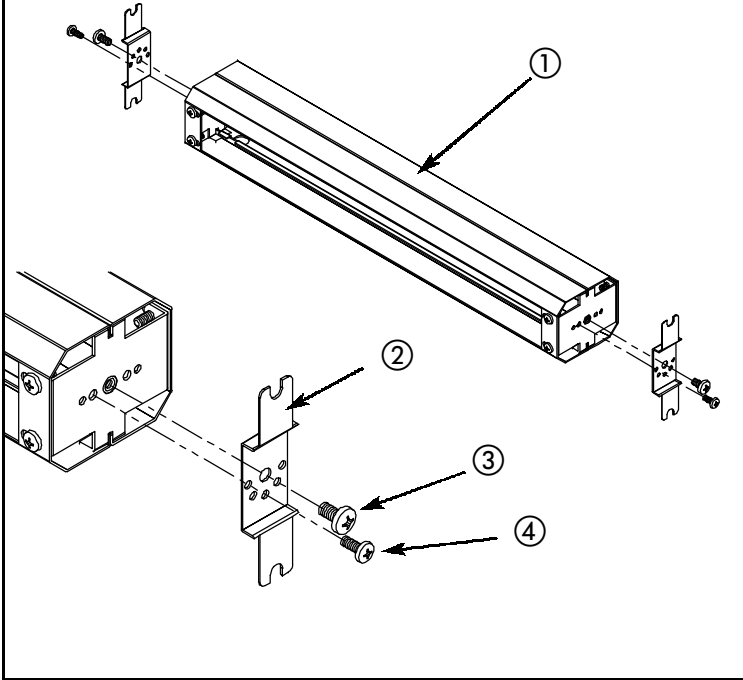


Figure 3-33

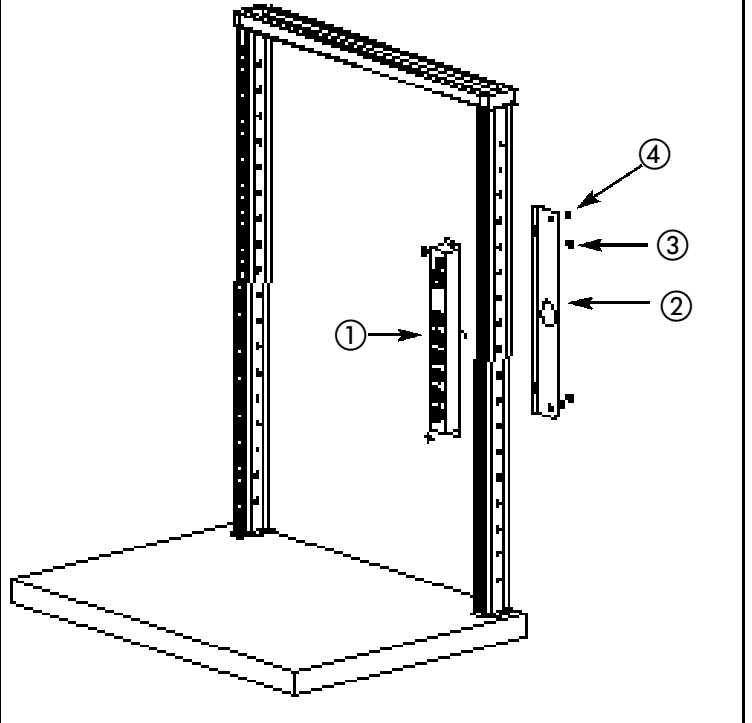


Figure 3-34

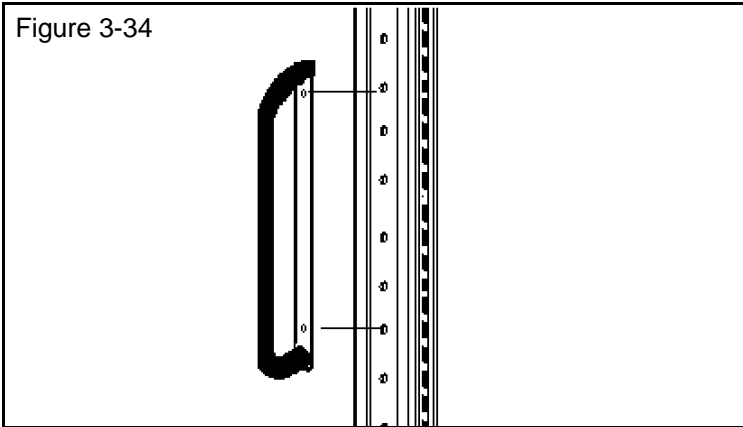
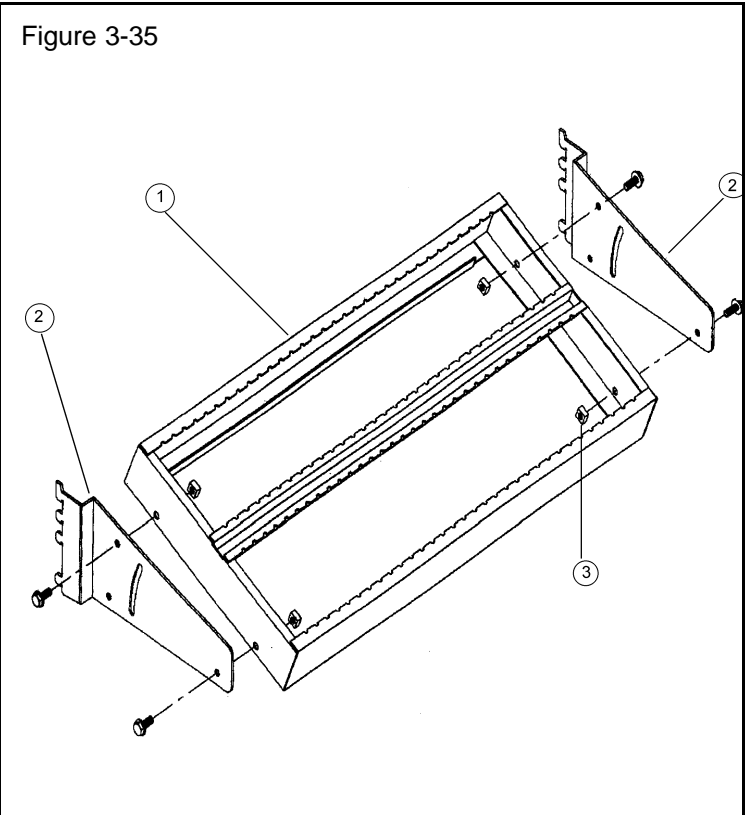


Figure 3-35



Lista International Corporation

106 Lowland Street

Holliston, MA 01746

Technical Support: (800) 722-3020, ext. 235 or 233.

E-mail: sales@listaintl.com

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