



## Classic XXI Installation Instructions

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# Classic XXI

## Installation Instructions

### PREINSTALLATION OF PANELS

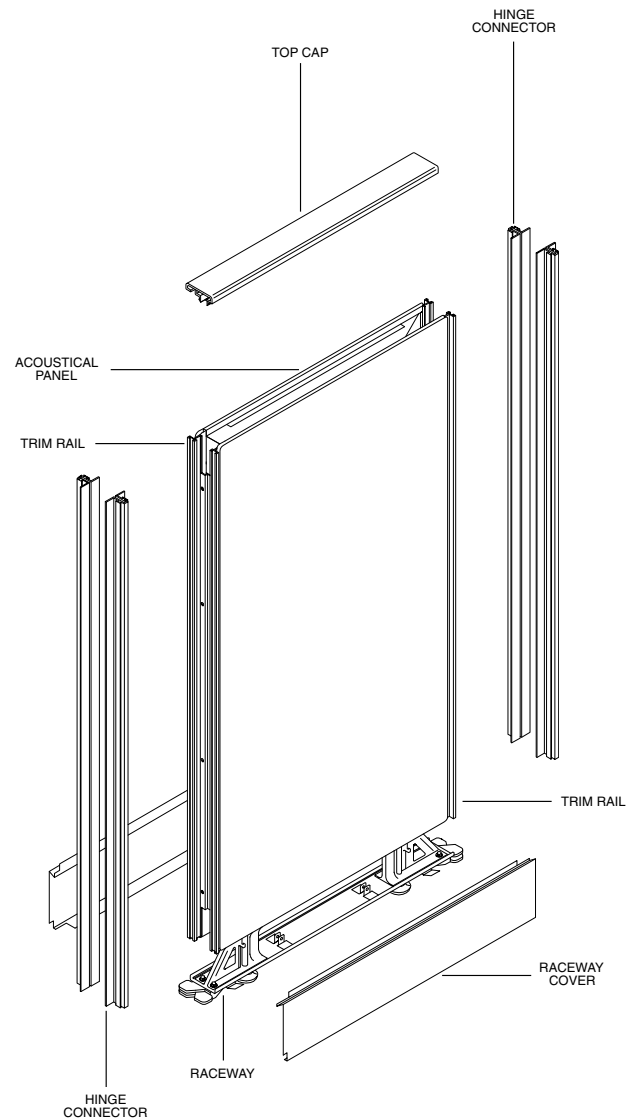
#### Recommended Tools

Safety Glasses	Torx Driver (T-25)
Steel Tape Rule	Rubber Mallet
Level	Ball Peen Hammer
Utility Knife	Allen Wrench ( $\frac{3}{16}$ " )
Hacksaw	Chalk Line
Electric Screwdriver	Glide Wrench ( $\frac{7}{16}$ " open end)
Phillips Head Screw Bits (#2 & #4)	Flat Pry Bar
Straight Slotted Screwdriver	

#### Before You Begin

To simplify the installation of the panels, the following recommendations should be considered:

1. Stage the order by panel size, height, power, and color. Sort the cartons by top caps, raceway cover, and hinges. Then sort by size and color.
2. Make sure the area is clear and ready for panel installation.
3. Verify all room dimensions vs. the installation print. Measure power infeed locations to insure proper relation to panels. If using top feed power, route the top feed harnesses through the specified panel ends before assembling the workstations.
4. Use masking tape or a white chalk line to create a plot on the floor where the panel will be installed. Chalk line may be snapped to right, left, or center of panel. (Alternative is to fasten a string to both end panels, pull tight, then line up all panels in between.)
5. Review the panel terminology drawings before starting.
6. Mount carpet grippers with a ball peen hammer (to prevent damage to gripper) and turn all glides out  $\frac{3}{8}$ ". This should be done after panels are taken from stack for setting in place. (A carpet gripper must be installed on a carpeted floor since it provides a non-sliding "connection" between panel and floor.)



### PANEL TERMINOLOGY

# Installation Instructions

## SUGGESTED INSTALLATION SEQUENCE

### Panel Terminology

Each panel assembly includes (2) hinge connectors, (1) top cap, and (2) raceway covers.

Panel-to-panel jumpers are needed if panels are electrified.

### Installation

Review the panel layout drawing to determine if there are any wall mount conditions. If there are, this is a good place to start. If not, you will want to start where panels come together at a 90° corner. If there are any "T" mount conditions, you will want to make them before attaching to adjacent panel with hinges (See 90° and "T" mount attachment).

1. Start panels in corners and three-way situations.

Note: Install raceway covers on the back side of panels that will be against walls (and inaccessible later). See page 8.

2. While installing, be sure to set the center of the panel directly over the center of the chalk line to assure straight panel runs (or directly over the left or right hand mark if you are using this option).

3. Leveling should be done as each panel is assembled. Level each panel before adjoining the next. (Having the glides already turned out  $\frac{3}{8}$ " will help with the leveling at this point in case the floor is uneven.)

4. Once panels are completed, the next step should be to install the rigid electrical connections and receptacles. See page 20.

5. Installation of top feeds and power poles can now be accomplished. As stated on page 2, step 3, when installing top feeds, run the flexible conduit through the panel before the panel is installed.

6. Install overhead units or shelves where specified. Task lights can now be installed.

7. Install any Classic XXI accessories including worksurfaces.

8. Install base feeds (as required).

9. Install exterior raceway covers.

# Classic XXI

## Installation Instructions

### CABLE MANAGEMENT

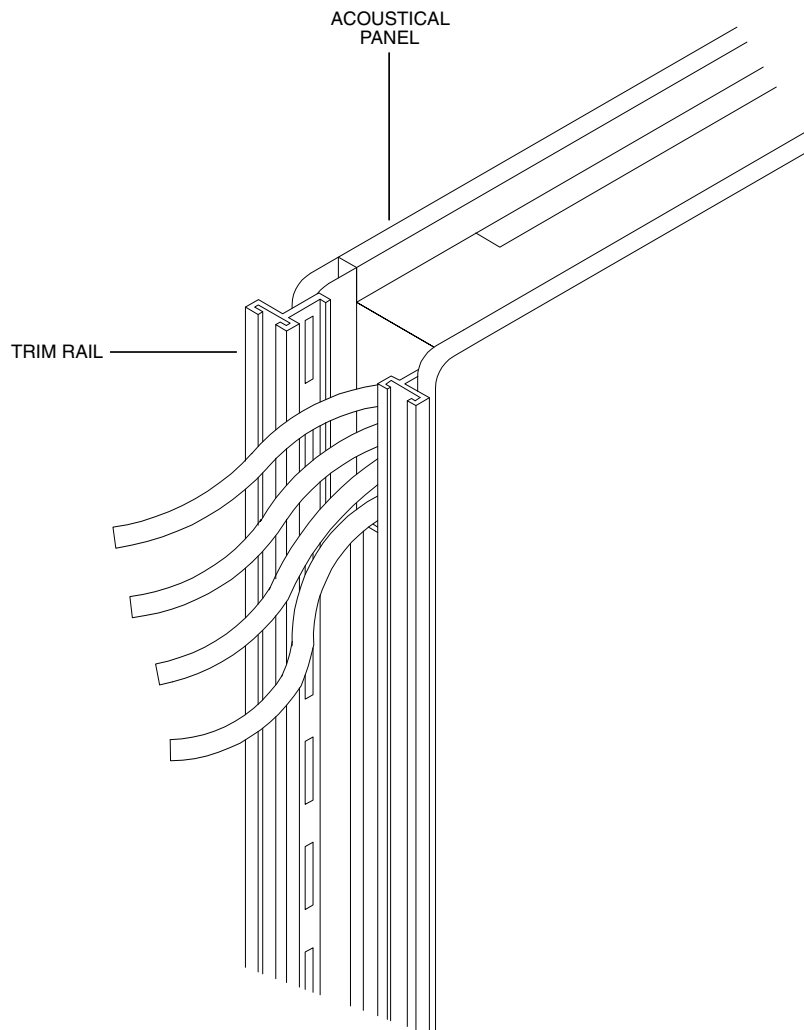
Before finished ends, top caps or raceway covers are installed, you should consider where wires will be routed. Panels have wire management capabilities through top and base raceways as well as both side frames. Cables also may be laid in through the side frame at the end of a panel run before the end post assembly is installed.

#### Cables Through Top and Side of Panel

1. The top raceway of the panel can accommodate up to ten 25-pair telephone cables. These cables may be routed across the top raceway along a run of panels or they may be routed down the side frame to reach the base raceway or a worksurface height communications access door.
2. Cables with small connectors may be threaded down through the side frames without removing the trim rail. To route large connectors through the side frame, remove the trim rail.

**Caution: If removing the trim rail, support both adjacent panels so they remain standing when the trim rail is released.**

3. To remove the trim rail, lay the panel on edge and using a torx driver or Phillips driver (depending on the screw type), take out the screws connecting the trim rail to the frame. Tap up on the trim rail if necessary and it will slide off panel frame. To replace, repeat above steps in reverse order.



## Installation Instructions

### PANEL-TO-PANEL ATTACHMENT

1. To attach one panel to the next, bring the panels into position, making sure the interlocks are aligned (Figure 1). Slide the hinge connectors down the grooves provided, making sure the light shields are inside the panel (Figure 2).

2. Repeat the above steps until all panels are installed.

**Level the panels as they are being installed by adjusting the glides at the bottom of the panel. All carpet grippers should be in place before this is done.**

**Caution: Refer to panel specification guidelines for limits on panel runs.**

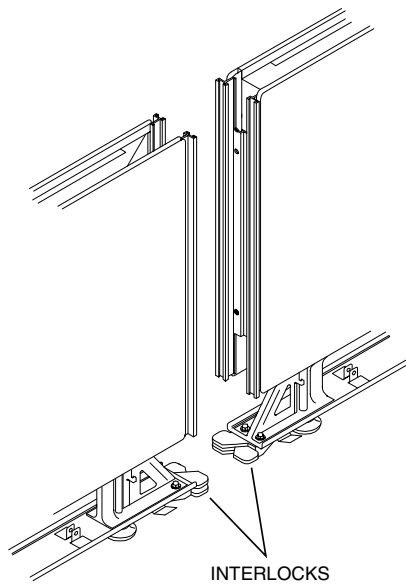


FIG. 1

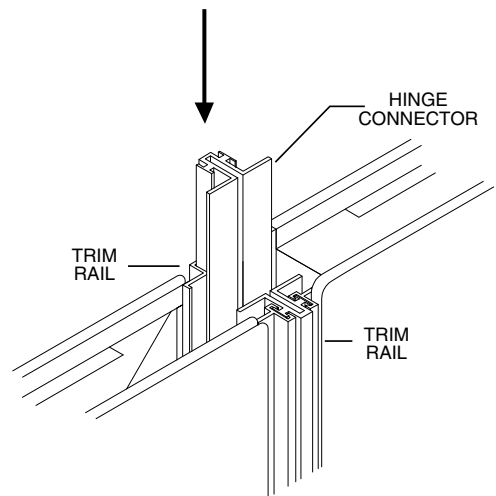


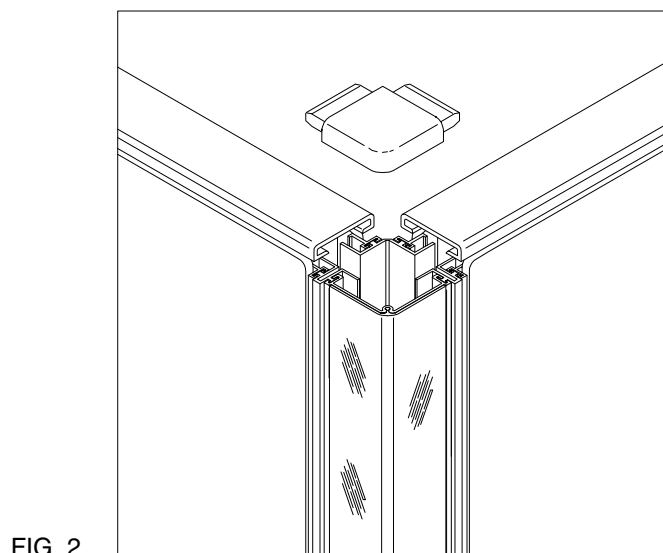
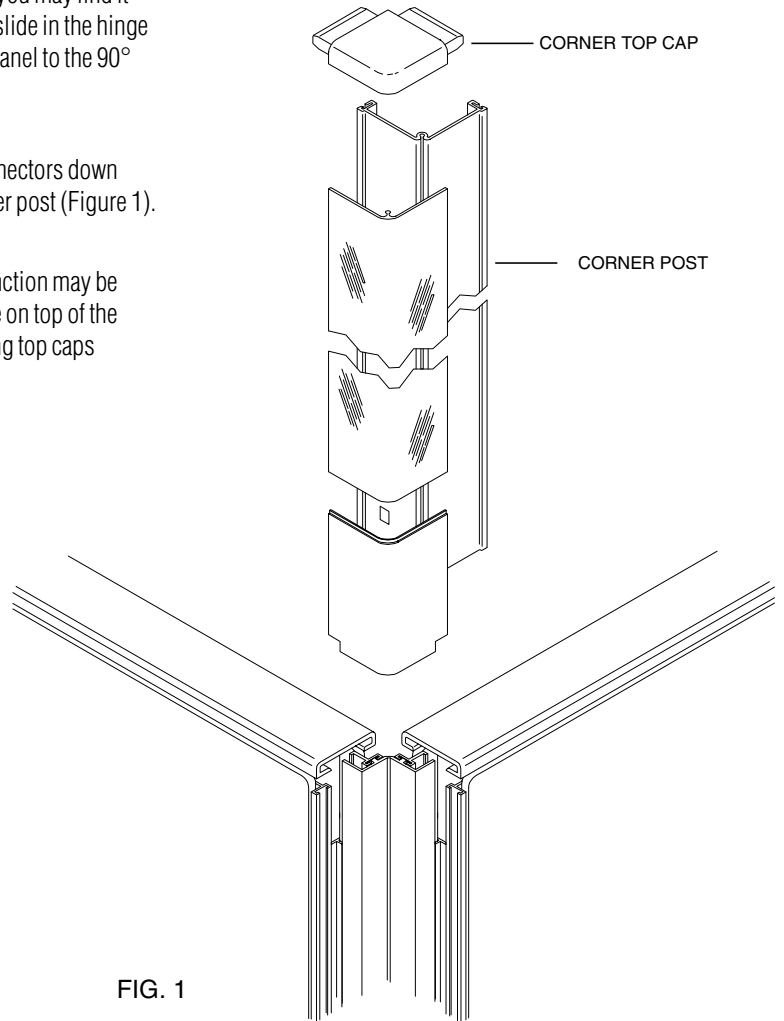
FIG. 2

# Classic XXI

## Installation Instructions

### 90° PANEL JUNCTION

1. When installing panels in a 90° junction, you may find it easier to line the panels up in a line (180°), slide in the hinge that forms the inside corner, then pivot the panel to the 90° position.
2. Position corner post and slide hinge connectors down grooves provided into the trim rail and corner post (Figure 1).
3. Once corner post is in place, the panel junction may be finished by locating the top cap corner piece on top of the corner post with sleeves inserted in adjoining top caps (Figure 2).





# Installation Instructions

## THREE-WAY PANEL JUNCTION

1. Position T-post and slide hinge connector down into grooves provided in the trim rail and T-post (Figure 1).
2. Once T-post is in place, position the T-post cap on top of the junction of the three panels, with all 3 top caps not snapped in place.
3. Push the sleeves of the T-post cap into the 3 top caps, and snap them in place (Figure 2).

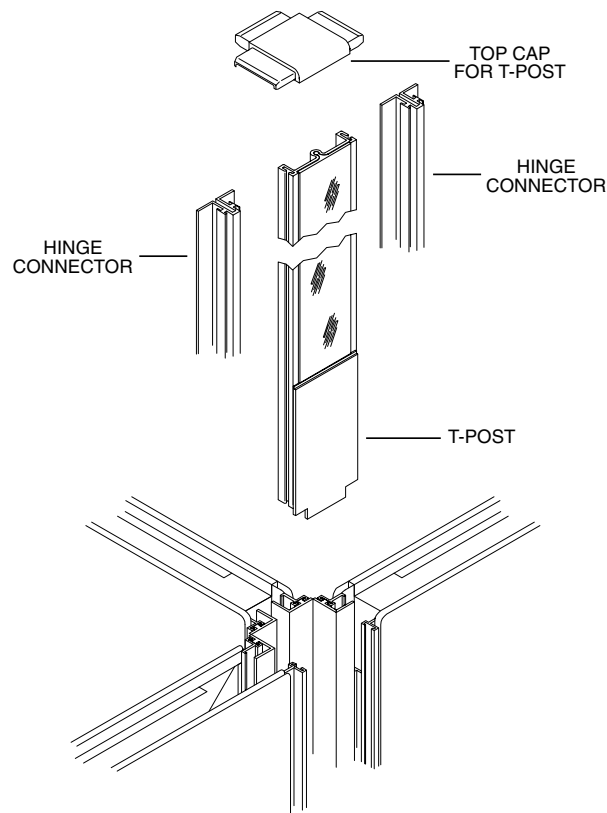


FIG. 1

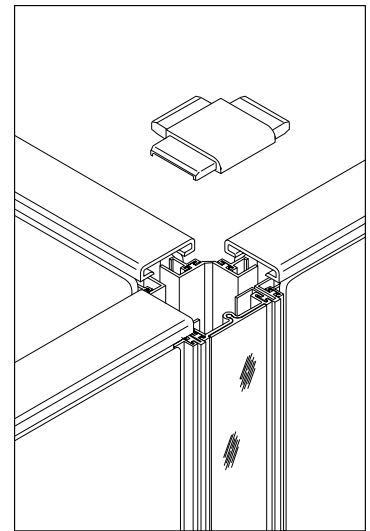


FIG. 2

# Classic XXI

## Installation Instructions

### END-OF-RUN, TOP CAP & RACEWAY COVERS

#### End-of-Run Assembly

1. An end-of-run trim is needed to finish a panel at the end of a panel run.
2. To attach the end-of-run trim, rest one end of the trim piece on the interlock at the base of the panel. Snap it into place on the trim rail of the panel (Figure 1).

#### Top Cap Installation

1. Once all panels are installed, you may install the top caps and end-of-run trim. Insert the end cap sleeve into the adjoining top cap. Insert the other end of the end cap sleeve into the end-of-run trim. Push straight down on one end of the top cap and work your way to the other end (Figure 2).
2. A top cap sleeve should be inserted into two adjacent top caps when they are in a 180° configuration.

#### Raceway Cover Attachment

1. With panels installed, panel-to-panel connectors in place, receptacles located, and all other wiring completed (see section two of this book), the last step is to install the raceway covers. Hook the appropriate length raceway cover into place on the tabs of the support housings. Swing the raceway cover down until the spring clips on the pan snap onto the notch provided (Figure 3).

**Spring clips must be located WITHIN the raceway cover as shown.**

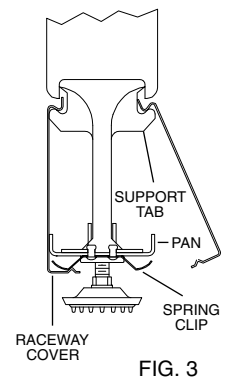
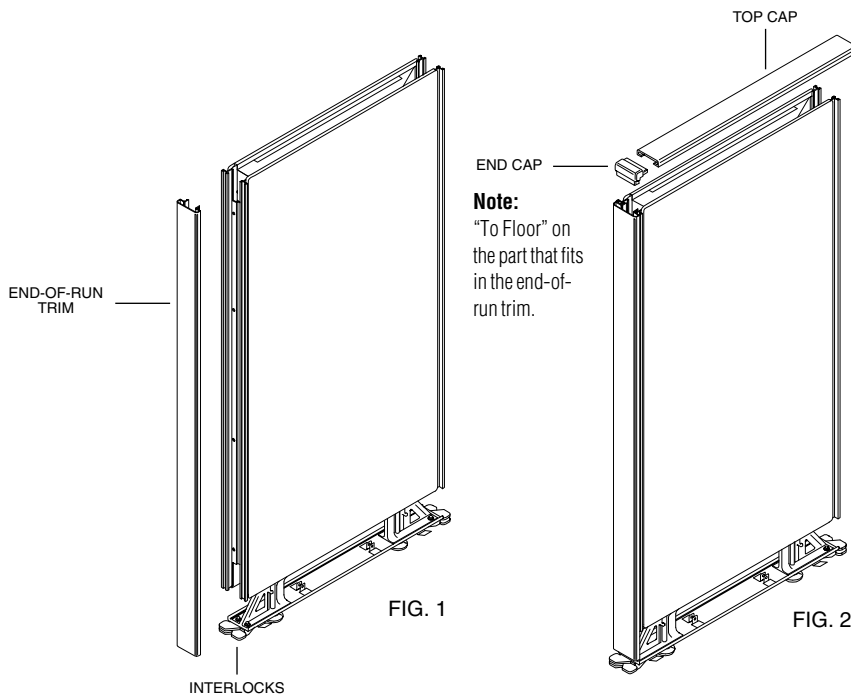


FIG. 3

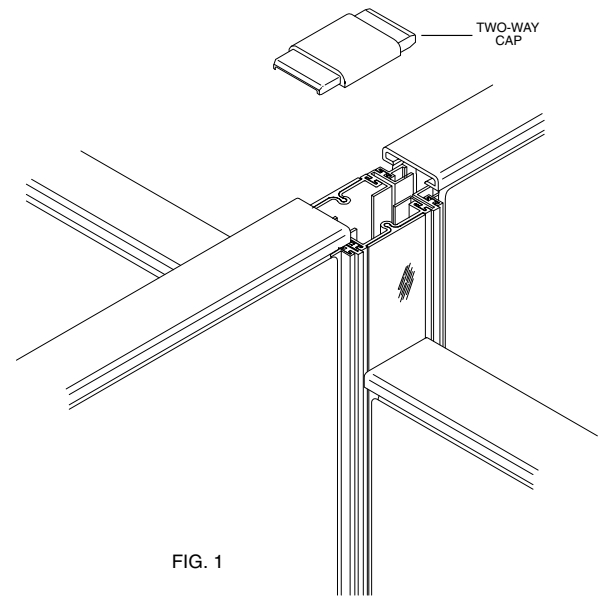
# Installation Instructions

## TWO-WAY PANEL JUNCTION & FOUR-WAY PANEL JUNCTION

### Two-Way Panel Junction

1. Position the two-way cap on top of the junction of two panels intersecting the junction of two lower panels, but with the two upper top caps not snapped in place.

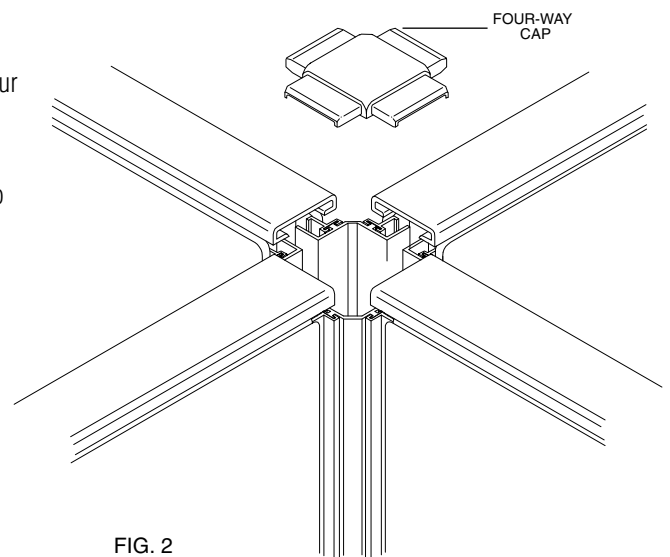
2. Push the sleeves of the two-way cap into each of the two adjoining top caps, then snap the two top caps into place (Figure 1).



### Four-Way Panel Junction

1. Position the four-way cap on top of the junction of the four panels, with all four top caps not snapped in place.

2. Push the sleeves of the four-way cap into each of the two adjoining top caps, then snap the four top caps into place (Figure 2).



# Classic XXI

## Installation Instructions

### TWO HEIGHT PANEL JUNCTION

#### Two Height Panel-to-Panel Connections

##### 90° Assembly Instructions

1. Place the lower corner post in place (with hinge connectors), as described for a standard 90° corner.
2. Set corner post top cap in place.

**Note: The top cap sleeve must be cut off one side of the corner post top cap in order for it to fit properly, and not interfere with the upper panel trim rail.**

3. Slide the lower panel top cap onto the corner post top cap sleeve, then snap the top cap onto the lower panel.
4. Snap the variable height end-of-run trim into place. The end-of-run will sit on corner post top cap.
5. Put the upper panel top cap and end-of-run top in place (Figure 1).

##### 180° Assembly Instructions

1. Put lower panel top cap in place as usual.
2. Snap end-of-run trim into place. End-of-run will sit on lower top cap.

**When a countertop is placed on the lower panel, the end-of-run must be shortened to accommodate the countertop.**

3. Put the upper panel top cap and end-of-run top cap in place (Figure 2).

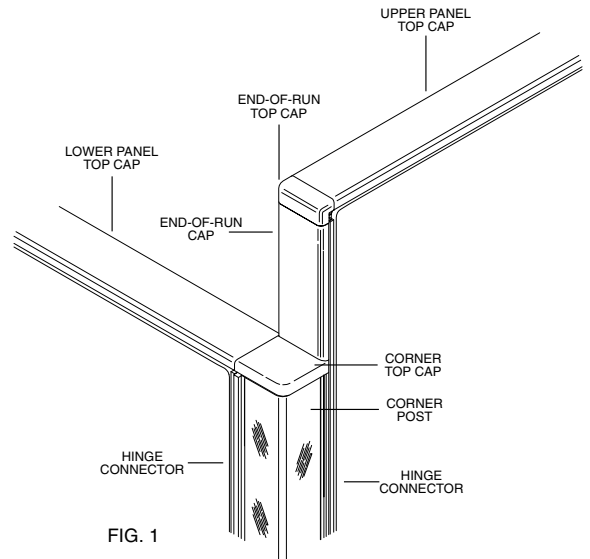


FIG. 1

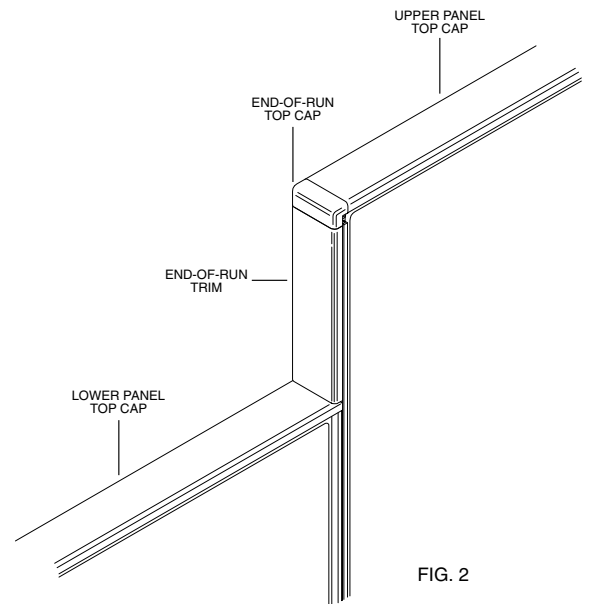


FIG. 2

## Installation Instructions

### WALL MOUNTS

**Note: Instructions are for an adjustable wall mount kit. In the standard wall mount kit you will not receive the "U" channel or the spacers, but the installation technique is the same.**

**Caution: Determine the type of wall construction. The wall mount extrusion must be mounted only to a structurally sound wall using the type of connector best suited for the wall. Mounting into studs is recommended.**

1. Determine the desired location of the wall mount for the panel to be mounted to the wall.
2. Remove the panel interlock (take out interlock bolts) from the bottom of the panel which is to be butted against the wall (Figure 1). This requires the use of a  $\frac{3}{8}$ " wrench.

Reinstall interlock bolts (which were holding the interlock in place) with two ( $\frac{1}{4}$ -20) nuts provided in the wall mount kit. (This secures the black support housing in place.)

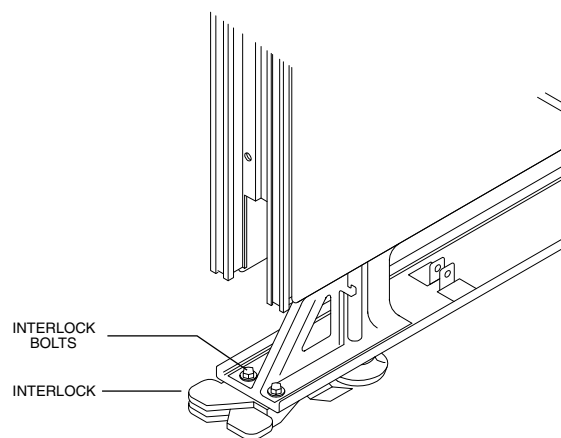


FIG. 1

3. To determine the proper mounting height, you must first level the panel to be attached to the wall mount. When level, move this panel against the wall and mark the wall at the top of the panel trim rail.

4. Using the steel "U" channel, hold it at the mark on the wall. Hold a level to this "U" channel and measure the difference at each mounting hole.

5. Stick the proper amount of  $\frac{1}{8}$ " cork spacers to the "U-channel" at each hole (Figure 2) to fill any difference between the level and the "U" channel.

6. Attach the wall mount to the wall checking the level both vertically and horizontally.

7. The panel is now ready for attachment to the wall mount extrusion. This utilizes the same hinge connector attachment which joins all other panels (Figure 2). (You may trim off the light block portion of the hinge on the wall mount side to facilitate installation, if necessary.)

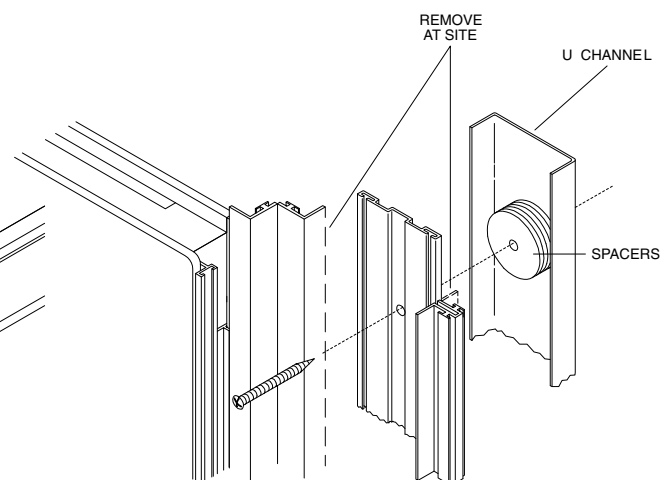


FIG. 2

# Classic XXI

## Installation Instructions

### PANEL CENTER MOUNT Installation

1. Remove top caps from both panels (Figure 1).
  2. Remove raceway covers from panel to be attached. Remove (1) interlock from the end you wish to attach to the other panel. Replace interlock with (2)  $\frac{1}{4}$ " hex nuts provided in hardware kit.
  3. Remove the raceway cover on the side of the panel where the panel is to be attached. Insert one of the aluminum clips into the welting groove at approximately the center of where the panel is to be attached (Figure 1). Replace the cover and the clip will stay in the groove (Figure 2).
  4. Take the panel to be attached (the end with the interlock removed) and slide the threaded rod down the vertical frame member. Lift the panel to be attached and guide the clip up the frame with the threaded rod through the (2) holes in the clip (Figure 3).
- Install flat washer, lockwasher and nut to the end of the threaded rod (Figure 3).
5. Adjust the panel being attached to the exact placement and install top clip, washer, lockwasher and nut (Figure 1).
  6. Plumb panel, tighten nuts with deep  $\frac{1}{2}$ " socket until snug, replace raceway covers and top caps.

**Note: If panel or panels being attached with panel center mount are to be powered, then they must have their own power feed.**

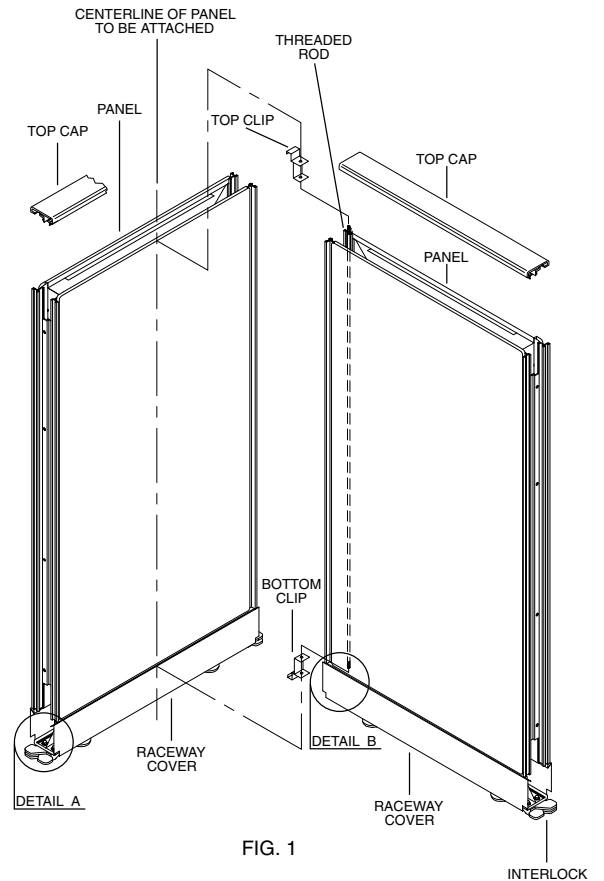


FIG. 1

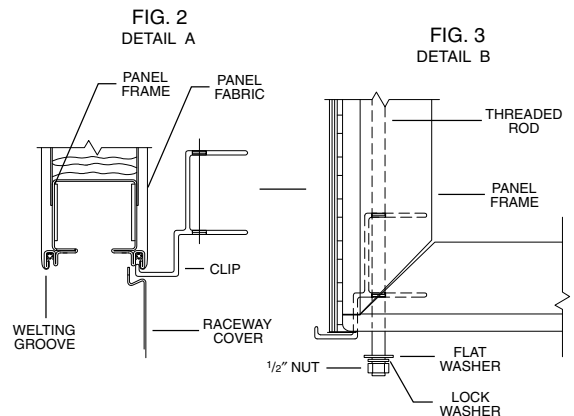


FIG. 2  
DETAIL A

FIG. 3  
DETAIL B

## Installation Instructions

### PANEL DOORS

#### Tools Needed

- A. Torx (T-25) Tipped driver
- B.  $\frac{3}{8}$ " Open End Wrench
- C.  $\frac{7}{16}$ " Open End Wrench
- D.  $\frac{1}{2}$ " Open End Wrench (If you are using a threshold)

#### Installation

1. Lay the door frame/door assembly flat on a clean surface, or on the cardboard carton it came in. Remove the (2) torx head screws from each side trimrail, and slide the trimrails about 12" toward the top of the door (Fig. 1).
2. Attach an "L" shaped support bracket with the adjusting glide, at the bottom of each frame member. The "L" bracket mounts on the inner flange of the frame member using (4)  $\frac{3}{8}$ " torx screws on each bracket (Fig. 2).
3. Slide the two trimrails back in position and attach them to the frame with (12)  $\frac{3}{8}$ " torx screws in each trimrail.

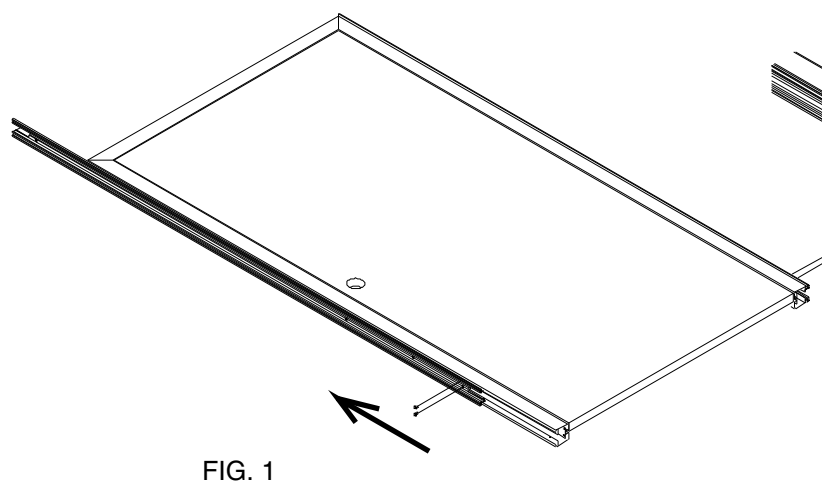


FIG. 1

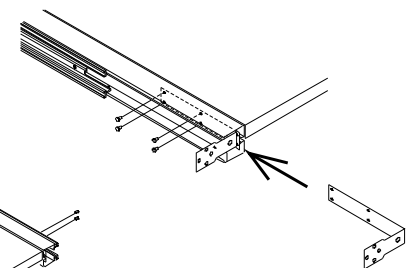


FIG. 2

4. Remove the interlock bolts from the panels adjacent to the door location using the  $\frac{3}{8}$ " open end wrench. Set the interlocks aside and save the bolts for attaching the "L" brackets on the door frame to the adjacent panels.

**Note: If installing a door threshold, refer to instructions on page 15. If not, continue with step 5.**

5. Stand the panel door assembly in place between the adjacent panels (with interlocks removed) and adjust the door glides so the trimrails on the door and the panels match, and the "L" bracket on each side touch the bottom of the raceway pans on the adjacent panels. Secure the "L" brackets to the adjacent panel raceway pans, using the bolts you saved in step 4 and the nuts included in the hardware kit.
6. Slide the vinyl hinges in to connect the door trimrails to the adjacent panel trimrails.

**Note: If the door is being installed at a 90° corner or T-configuration, you will need to attach the  $1\frac{3}{4}$ " x  $2\frac{3}{4}$ " flat plate with the 4 holes between the "L" bracket and the adjacent panel at a 90° angle.**

# Classic XXI

## Installation Instructions

### PANEL DOOR THRESHOLDS

#### Installation

**Note:** Before starting the threshold installation, steps 1-4 on page 14 should be complete.

1. Remove a glide from an "L" bracket installed on the door frame.
2. Slide the glide through the hole in the threshold end clip. Turn the  $\frac{5}{16}$ " nut down onto the glide stem until it is within  $\frac{1}{8}$ " of the clip (Figure 1).
3. Repeat steps 1 and 2 on the other end of the threshold.
4. Screw the glides back into the "L" brackets on the door frame. Adjust the glide so the distance from the bottom of the glide to the top of the "L" bracket matches the distance from the bottom of the glide to the bottom of the raceway pan on the adjacent panel (Figure 2, DIM. A).

5. While maintaining dim. A, tighten the nut down so it secures the threshold clip between the nut and the glide nut.

6. Peel back all four ends of the two double stick tape strips on the bottom of the threshold about 2". The tape covers will be peeled off as a final step to help adhere the threshold to the floor (Figure 1).

7. Refer back to steps 5 and 6 on page 14, to attach door in place. Once all final adjustments are made to the door, carefully pull the tape covers off the bottom of the threshold. You may need to lift up on the adjacent panels to pull the tape off.

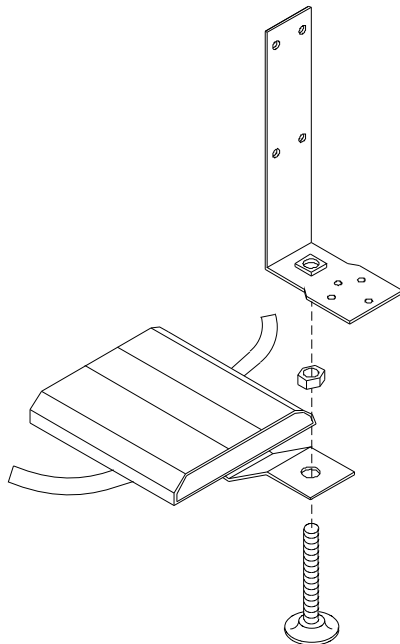


FIG. 1

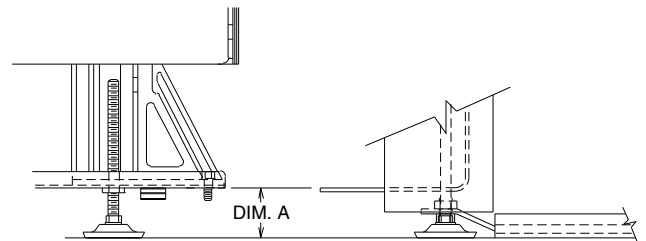


FIG. 2



# Installation Instructions

## ERP PANELS

### ERP (Extended Raceway Panel) Panels

**Note: The installation of ERP panels, trim and electrical is identical to that of standard panels. The only additional installation step is the use of the septum bridges. See the steps below for the installation of the septum bridges.**

#### 180° Panel Connection

**Note: Each ERP panel will include (1) 180° septum bridge.**

1. Install ERP panels the same as the standard panels, but leave the raceway cover off one side of each panel.
2. Bend the 4 tabs down 90° on the steel 180° septum bridge (Figure 1).
3. Set the 180° septum bridge into the ends of the two steel septums in the ERP raceway of the adjacent panels. The 4 tabs bent down in step 2 will fit into the slots in the steel septums.
4. When the 180° septum bridge is lying flush with the surface of both steel septums, bend the tabs in under the steel septum to secure them in place.
5. Install the ERP raceway covers as usual.

#### 90° Panel Connections (2, 3, or 4 panel intersections)

**Note: Each ERP 90° trim includes (1) 90° steel septum bridge. Each ERP T-post trim includes (2) 90° steel septum bridges.**

1. Install the ERP panels the same as the standard panels, but leave the raceway cover off one side of each panel.
2. Bend the 4 tabs down 90° on each end of the steel 90° steel septum bridges (Figure 1).
3. Set one 90° septum bridge into the ends of the two steel septums in the ERP raceways of two of the panels. If you are working with a 3 or 4 panel corner, place a second 90° septum bridge in position on the remaining panels so it overlaps the first bridge.
4. When the 90° septum bridge(s) is lying flush with the surface of the steel septums, bend the tabs in under the steel septum to secure them in place.

5. Install the ERP raceway covers as usual.

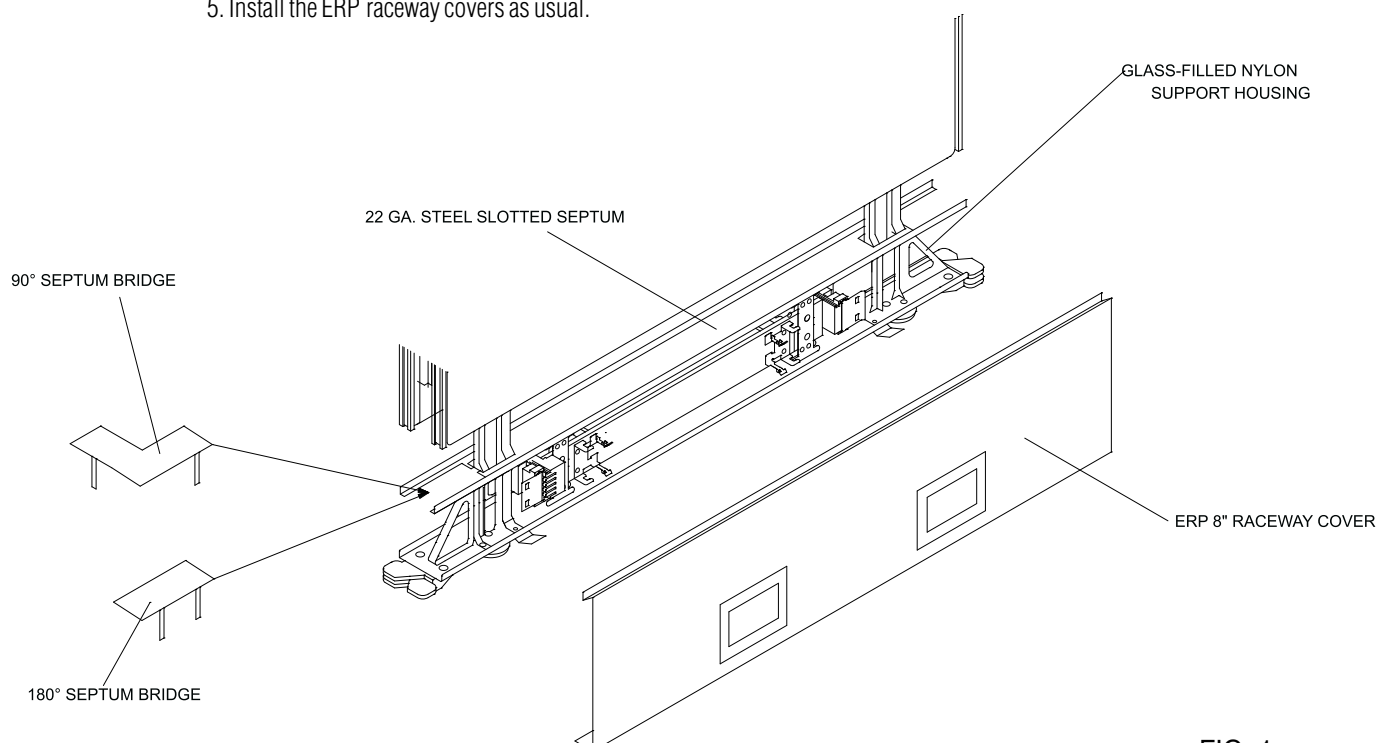


FIG. 1

# Classic XXI

## Installation Instructions

### STACKABLE PANEL SECTIONS & STACKABLE PANEL TRIM

#### Tools Required:

Phillips Screwdriver

#### Parts Included with Stackable Panel Section

- (1) Stackable Section
- (2) Stackable Attachment Brackets
- (5) 1/2" Phillips Screws
- (1) H-Shaped Spacer
- (2) Stackable Section Hinges

#### Attachment Bracket Assembly

1. Set the stackable panel section on its edge as illustrated to allow access to the lower end of the trimrail that does not have screws in it (Figure 1).

2. The attachment brackets will attach to the stackable panel section with two screws provided. Position the attachment bracket as shown and slide the bracket into the slotted trimrail at the "no screw" end (Figure 1).

3. Align the two mounting holes of the attachment bracket with the holes in the trimrail. Secure the attachment bracket to the trimrail with two 1/2" self tapping screws (Figure 2).

4. Carefully turn the stackable panel section over and attach the second attachment bracket to the other trimrail as described in the instructions above.

**Note: It is recommended that two people complete the installation of each stackable panel section.**

5. To install the stackable panel section, first remove the plastic top cap from the existing panel. Then place the H-spacer on top of the existing panel as shown (Figure 3).

6. Hold the stackable panel section over the existing panel so the 1/2" wide leg of each attachment bracket lines up directly over the 1/2" wide groove on the trimrails of the existing panel (Figure 3).

7. Carefully lower the stackable section down onto the existing panel until it is fully seated on the H-spacer (Figure 3). There will be about a 1/8" gap the entire width of the panel, and the hook on each bracket will catch the trimrail of the existing panel, when the stackable section is fully seated.

8. Slide the stackable hinges (not shown) into the trimrail of the stackable section and trimrail of the adjacent panels or other stackable sections if applicable.

9. Install any other stackable trim that may have been ordered separately.

*(continued on next page)*

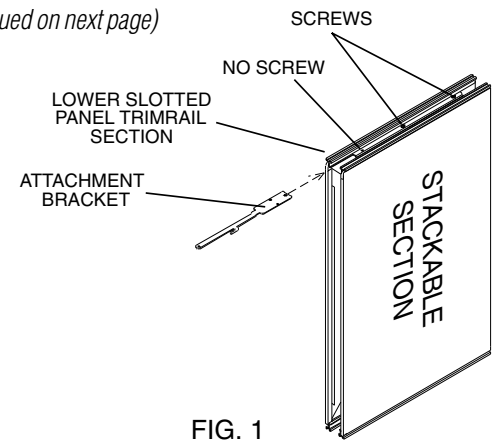


FIG. 1

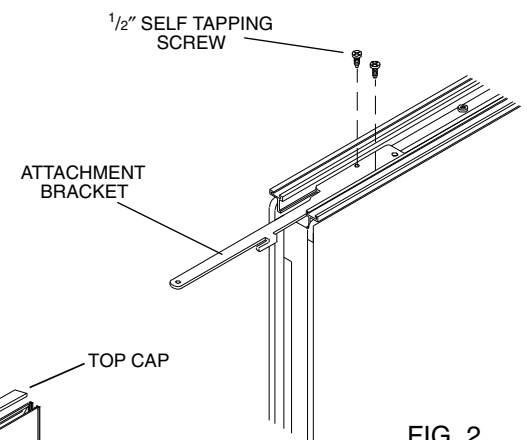


FIG. 2

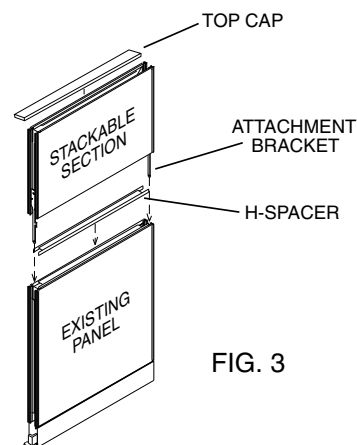


FIG. 3

# Installation Instructions

## STACKABLE PANEL SECTIONS & STACKABLE PANEL TRIM (cont.)

10. Snap the top cap, from the existing panel, onto the stackable section (Figure 3).

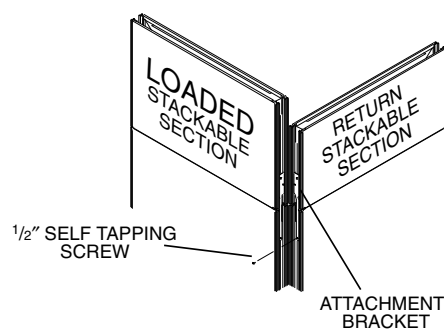
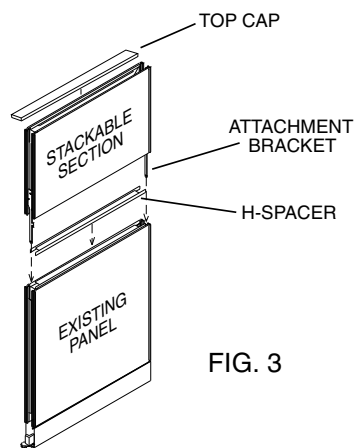
### Stackable Return Panels

11. When a stackable panel section is used as a return for a loaded stackable section, or a loaded standard panel, an additional  $\frac{1}{2}$ " self tapping screw should be driven through the leg of the attachment bracket and into the full panel trimrail. Drill a  $\frac{1}{8}$ " pilot hole into the trimrail of the full panel first, using the bracket leg as a guide (Figure 4).

### Stackable Panel Trim

#### Installation of Stackable Panel Trim

**Note: All of the stackable panel trim installs the same as standard panel trim. You do, however, have to specify the trim lengths that correspond to the stackable section height.**



# Classic XXI

## Electrical Installation

### GENERAL ELECTRICAL INFORMATION

#### General Electrical Information

Office furniture systems unite the day-to-day equipment with the services of the building.

1. Electrical power enters the panel system by one of two means: ceiling distribution (top fed) or floor distribution (base fed).

#### Ceiling Distribution

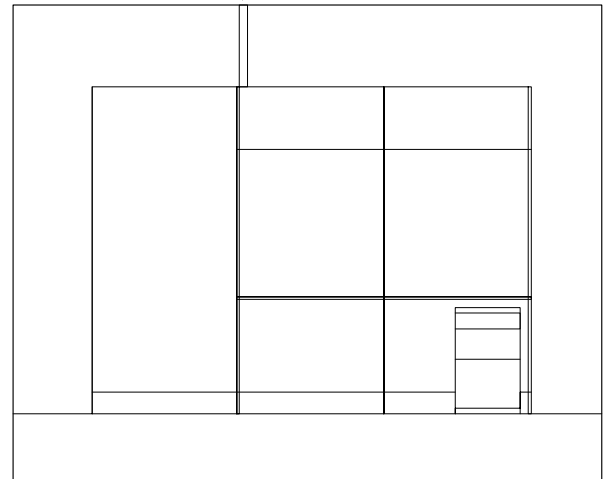
Ceiling distribution is one method of accessing the building's electrical and telecommunications. This method is accomplished by routing wires and cables through the ceiling, down the top feed power pole and into the panel.

#### Floor Distribution

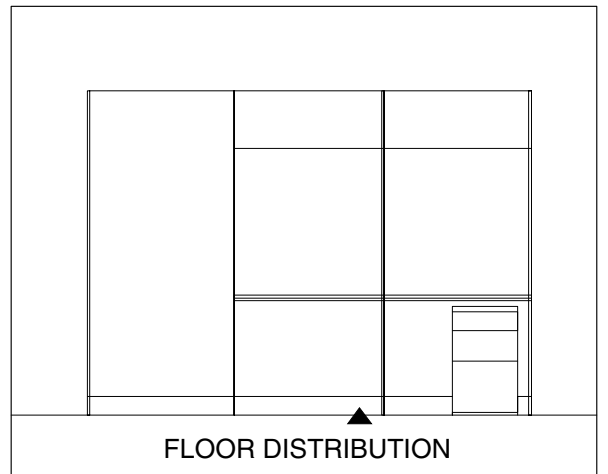
Floor distribution is another method of tapping into the building's electrical and telecommunications system. This method can be accomplished several different ways. You will encounter a variety of situations that will require different solutions, depending if the building feed is in the floor or in the wall.

2. There are two types of 10 wire electrical systems available on Classic XXI panels, 622 and 442. Depending on the electrical system you choose, your building will need to supply the correct configuration of wires. See pages 27 and 28 for the connection diagrams for both wire systems.

CEILING DISTRIBUTION



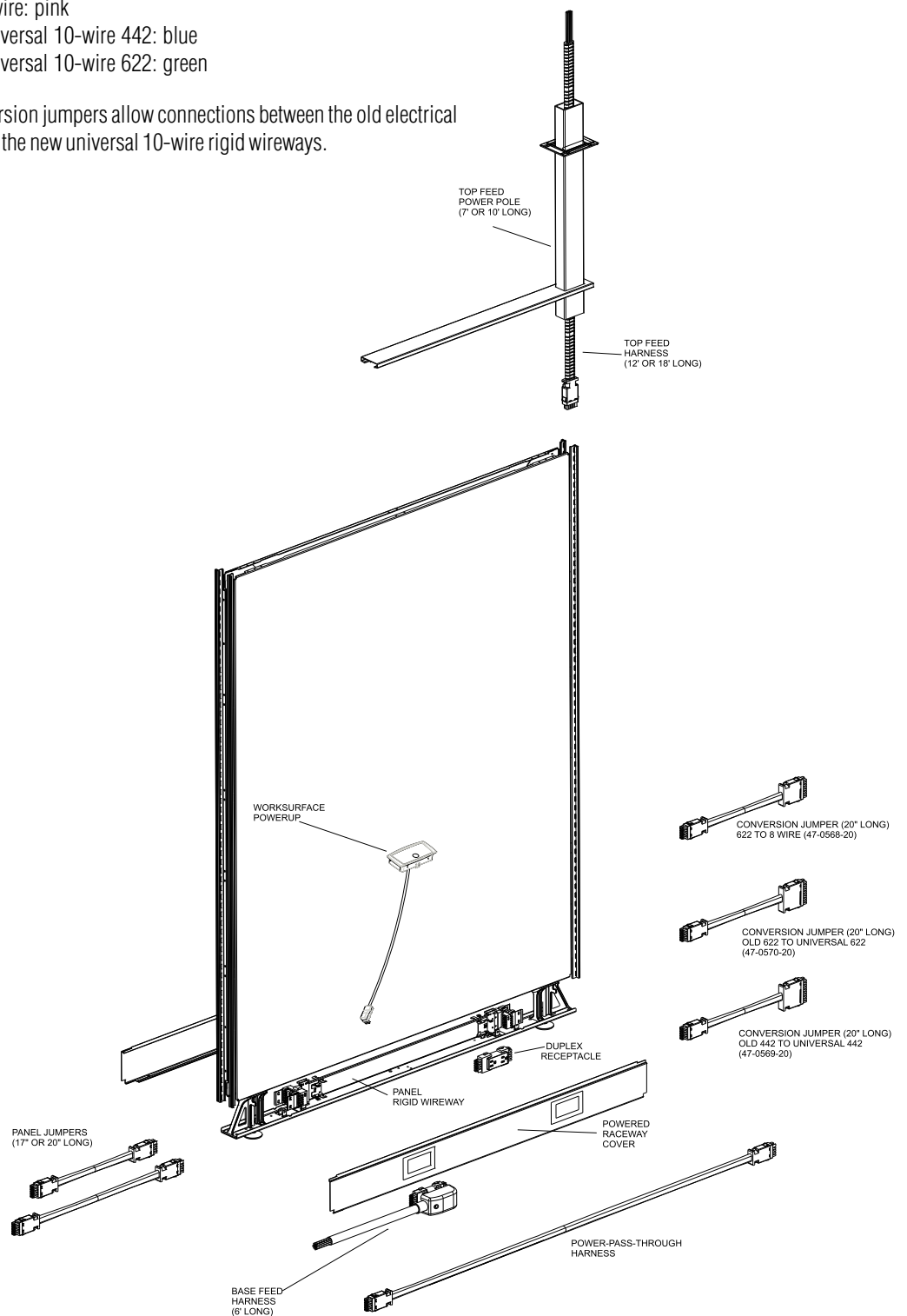
FLOOR DISTRIBUTION



# Electrical Installation

## IDENTIFICATION OF PARTS

1. Familiarize yourself with the common electrical parts before you begin your electrical installation.
2. To help you identify the three different types of electrical product, the UL labels that are on the electrical product are color coded as follows:
  - 8-wire: pink
  - Universal 10-wire 442: blue
  - Universal 10-wire 622: green
3. Conversion jumpers allow connections between the old electrical and the new universal 10-wire rigid wireways.



# Classic XXI

## Electrical Installation

### **SUGGESTED ELECTRICAL INSTALLATION SEQUENCE**    **Before You Begin:** **Caution**

- 1. Before installing electrical components, consult inspector or authorities for local codes. Connection to building power supply may be made ONLY after all panel wiring has been completed. Building connections must be made only by a licensed electrician following local codes in effect at the building site.**
- 2. Each circuit must be individually protected with a 120-volt, 20-amp circuit breaker device which will provide disconnect and overload protection.**


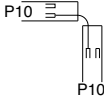
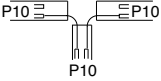
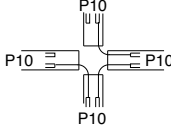
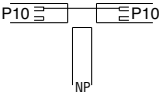
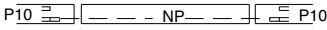
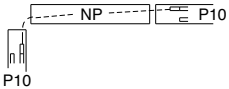
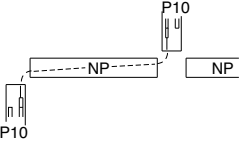
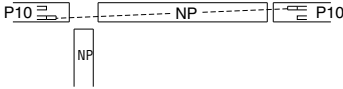
### **Installation Instructions**

1. Familiarize yourself with the electrical parts and the locations of the top feeds or base feeds.
2. Install the top feed harness in the appropriate panel as the panels are being installed. (See page 2, item 3).
3. If base feed harnesses are to be located between a panel and a building wall, install the base feed harness as the panels are being installed. Leave access for the electrician to make the final hardwire connection of the base feed harness to the building.
4. Install all the Panel to Panel jumpers or the Power-Pass-Through harness as shown on the spaceplanning drawing. Be sure all connections are tight.
5. Install all receptacles in the locations shown on the spaceplanning drawing.
6. Check the electrical continuity at the furthest point from the power infeed location.
7. Install the panel raceway covers on the appropriate panels.

# Electrical Installation

## PANEL-TO-PANEL ELECTRICAL CONNECTIONS UNIVERSAL

1. Power is carried between straight adjacent panels by panel jumpers. (See Figures A - H, for which jumper to use with different panel configurations.)
2. Attach the panel jumpers to the plug-in ports that are on the end of each panel wireway by pushing them together until they are locked.
3. If connecting a curved panel, or passing power through a non-powered panel, plug the correct length power-pass-through into the adjacent panel wireways (See Figures G - J).
4. Check the continuity from panel-to-panel with a voltmeter.

<p><b>A</b></p>  <p>YOU USE: (1) 18" PANEL JUMPER</p>	<p><b>B</b></p>  <p>YOU USE: (1) 18" PANEL JUMPER</p>
<p><b>C</b></p>  <p>YOU USE: (2) 18" PANEL JUMPERS</p>	<p><b>D</b></p>  <p>YOU USE: (3) 18" PANEL JUMPERS</p>
<p><b>E</b></p>  <p>YOU USE: (1) 20" PANEL JUMPER</p>	<p><b>F</b></p> <p>NOTE: YOU <b>MUST</b> SPECIFY EITHER THE 4-4-2 10-WIRE SYSTEM, OR THE 6-2-2 10-WIRE SYSTEM. THE TWO SYSTEMS <b>CANNOT</b> BE MIXED.</p>
<p><b>G</b></p>  <p>YOU USE: (1) POWER-PASS-THROUGH THE SAME SIZE AS THE NON-POWERED PANEL</p>	<p><b>H</b></p>  <p>YOU USE: (1) POWER-PASS-THROUGH THE SAME SIZE AS THE NON-POWERED PANEL</p>
<p><b>I</b></p>  <p>YOU USE: (1) POWER-PASS-THROUGH <b>ONE SIZE LARGER</b> THAN THE NON-POWERED PANEL, (WITH EXCEPTION OF 60" NP PANELS)</p>	<p><b>J</b></p>  <p>YOU USE: (1) POWER-PASS-THROUGH <b>ONE SIZE LARGER</b> THAN THE NON-POWERED PANEL, (WITH EXCEPTION OF 60" NP PANELS)</p>

# Classic XXI

## Electrical Installation

### RECEPTACLE INSTALLATION

#### Installing Receptacles

**WARNING:** Assembly of all mechanical frame components must be completed before making any electrical connections. All electrically connected furnishings must also be mechanically connected.

1. Position the receptacle on either end of the wireway as shown (depending on location desired), matching the (N) symbol to the same orientation on both the receptacle and wireway.
2. Align the receptacle so the end is in line with the inner socket on the wireway (Figure 1).
3. Push the receptacle back against the mounting plate (Figure 1).
4. Slide the receptacle to the side so the end terminals slide into the wireway inner socket (Figure 2).
5. Receptacle is properly seated when the catch clip on the wireway is between the wedges on the receptacle (Figure 3).

#### Removing Receptacle

1. Slightly lift the catch clips on the top and bottom of the receptacle (Figure 3) and slide the receptacle away from the socket on the wireway.
2. Pull the receptacle away from the wireway once the end of the receptacle clears the wireway socket.

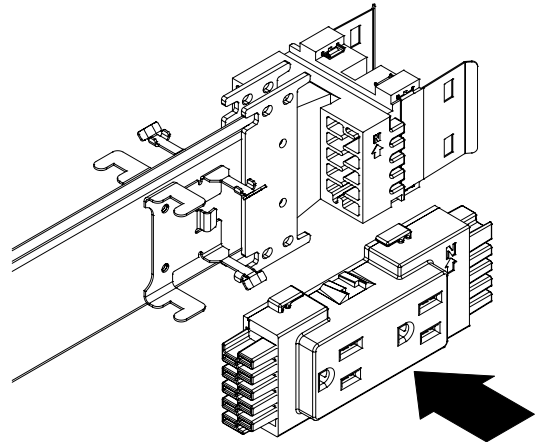


FIG. 1

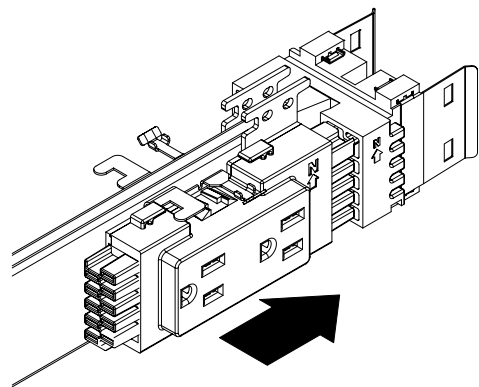


FIG. 2

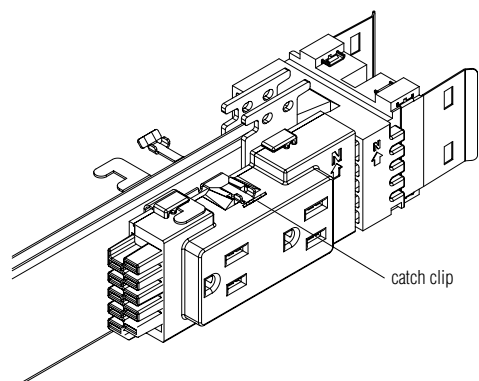


FIG. 3



## Electrical Installation

### BASE POWER INFEEED HARNESS INSTALLATION

#### Base Power Infeed Installation

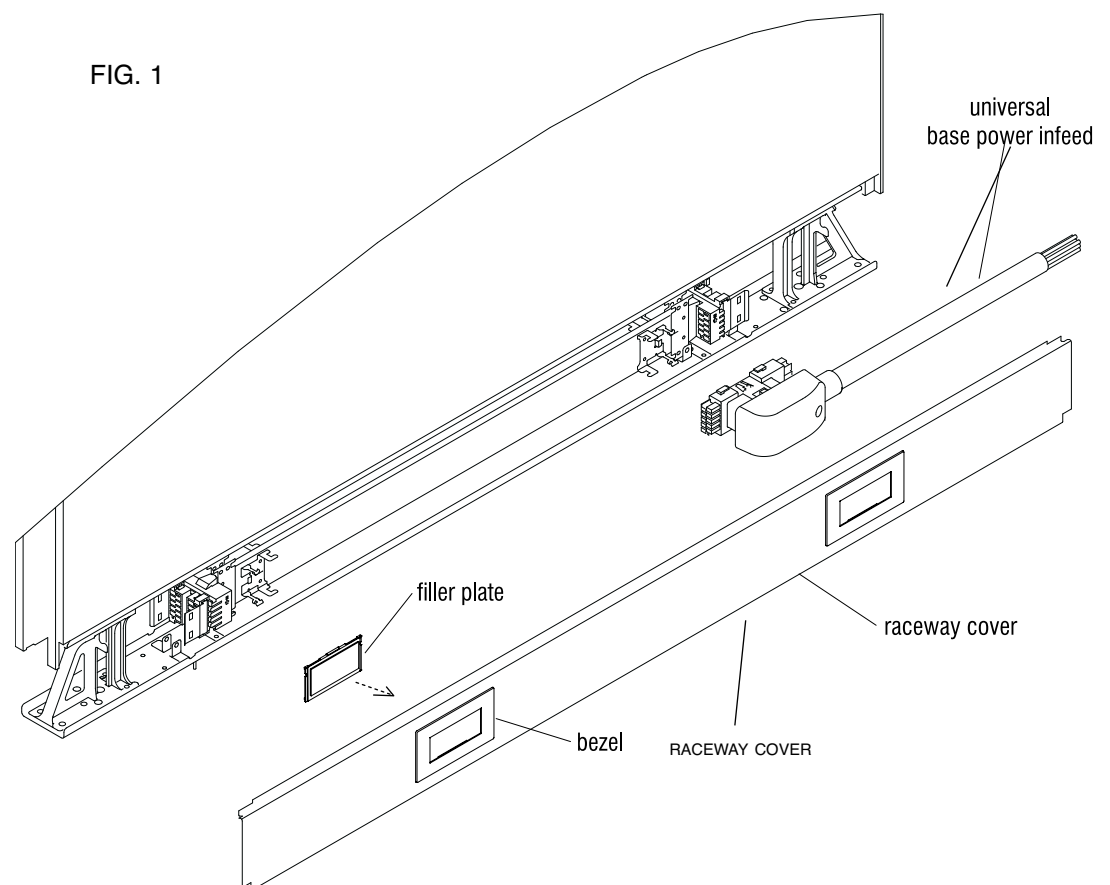
**Caution: The wires in the end of the base feed power infeed must be hard-wired later by an electrician. It is not safe to perform the following steps if these wires are already connected to the building.**

1. Install the panel base power infeed before the raceway cover is attached (Figure 1). If the raceway cover is already installed, pull the cover out and up from the bottom.
2. Determine from the layout which panel wireway will receive the power feed. Align the power feed the same way you would a duplex receptacle if you were installing it in a rigid wireway.
3. Slide the power feed female inserts into place in the corresponding male part of the rigid wireway. Press firmly until the spring clips lock it in place.

4. Feed the conduit end of the power feed through the receptacle access opening on the raceway cover. Install the raceway cover on the panel base. Hook the raceway cover onto the tabs on the two black support housings. Swing the raceway cover down until it snaps into place.

5. The base power infeed shown is a right-hand model. Left-hand power feeds are also available. The left or right refers to the direction the conduit goes as you look at the panel. The infeed will fit in any unused receptacle port at either end of a panel.

**NOTE: The base raceway power infeeds are not allowed at worksurface height.**



# Classic XXI

## Electrical Installation

### TOP POWER INFEED HARNESS/POWER POLE INSTALLATION

#### Top Power Infeed Installation

**Caution: The wires in the loose end of the top power infeed must be hard-wired later by an electrician. It is not safe to perform any of the following steps if these wires are already connected.**

1. Cut the top cap, from the panel you are installing the top feed on, 6" shorter. Be sure you make a clean straight 90° cut.

2. Snap the infeed trim cap in place.

**Note: Before measuring the pole, be certain the panel is level and in its final location.**

3. Drop a plumb line from the ceiling to a corner of the rectangular hole in the top infeed trim cap. At the ceiling, mark a 2<sup>5</sup>/<sub>8</sub>" by 1<sup>1</sup>/<sub>2</sub>" hole starting at the same corner. The 2<sup>5</sup>/<sub>8</sub>" dimension corresponds to the direction of the panel run. Cut out the hole in the ceiling tile.

4. Place the top infeed pole next to the panel so that the top of the pole touches the ceiling.

Mark a point 4" longer than the distance from the top of the trim cap to the ceiling. Use a hacksaw to cut the pole at this point (Figure 1). Be sure all burrs or sharp edges are removed after cutting.

5. If you did not do so in the panel prep., feed the top infeed harness conduit up the panel side wireway from the bottom of the panel (Figure 2). Guide the conduit through the top infeed trim cap when it reaches the top of the panel. In the raceway of the panel, plug the female terminal on the top power infeed into the male terminal of the rigid wireway.

6. Slide a ceiling trim plate around the top of the top infeed pole. Feed the top infeed harness conduit through the small channel of the top infeed pole. When the conduit has reached the top of the pole, guide the pole into the hole in the ceiling. Continue to feed the conduit into the bottom of the pole until the top infeed pole can be set into the hole in the top infeed trim cap (Figure 3).

7. Slide the trim plate up the top infeed pole until it is tight against the ceiling.

#### For Electrician's Reference:

To reach the infeed conduit for hard-wiring above the ceiling, remove adjacent ceiling tile. Communication cables may be fed down the larger channel of the top infeed pole at a later time.

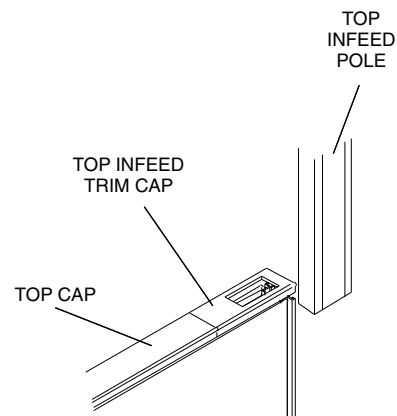


FIG. 1

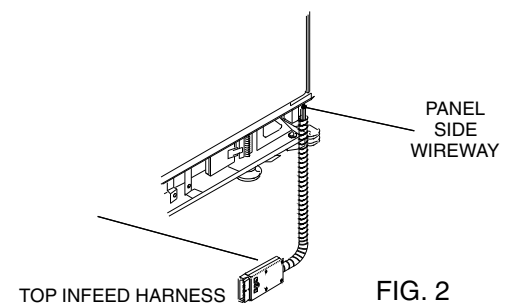


FIG. 2

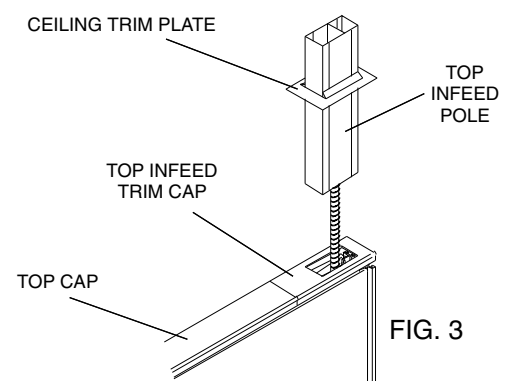


FIG. 3

# Electrical Installation

## UNIVERSAL WIRE CONNECTION DIAGRAMS

## 6-2-2 CONNECTION DIAGRAMS

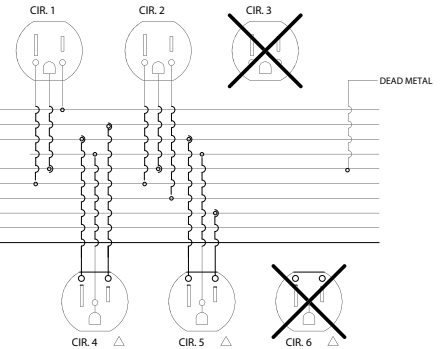
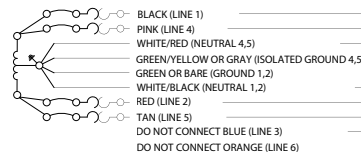
### Power Infeed to Building Connections

Have a certified electrician hard-wire the panel power infeed to the building power source according to the National Electrical Code and any other applicable local codes. See the chart for proper wiring connection to available power.

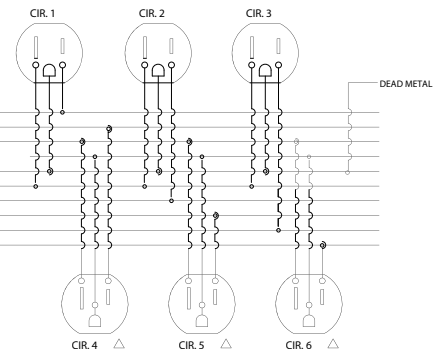
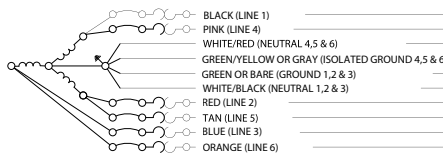
### 6-2-2

Receptacles available	Wires to be used	Gauge of wire
Circuit 1	Black White/Black Letters Green or Bare	12 10 12
Circuit 2	Red White/Black Letters Green or Bare	12 10 12
Circuit 3	Blue White/Black Letters Green or Bare	12 10 12
Circuit 4l	Pink White/Red Letters Green/Yellow Stripe or Gray	12 10 12
Circuit 5l	Tan White/Red Letters Green/Yellow Stripe or Gray	12 10 12
Circuit 6l	Orange White/Red Letters Green/Yellow Stripe or Gray	12 10 12

120/240V SINGLE PHASE

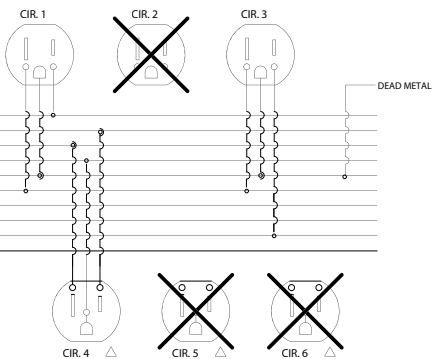
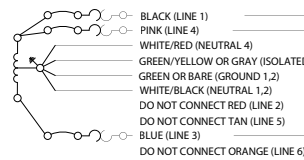


120/208V WYE (THREE PHASE)

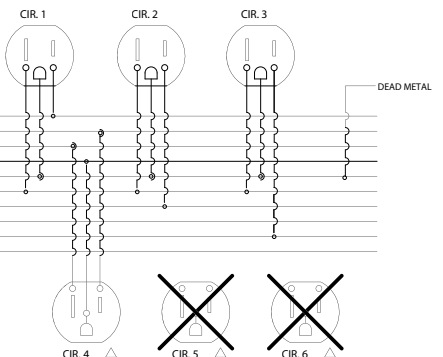
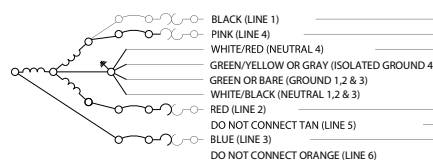


### 6-2-2 CONNECTION DIAGRAMS TO AN 8-WIRE BUILDING

120/240V SINGLE PHASE



120/208V WYE (THREE PHASE)



# Classic XXI

## Electrical Installation

### Power Infeed to Building Connections

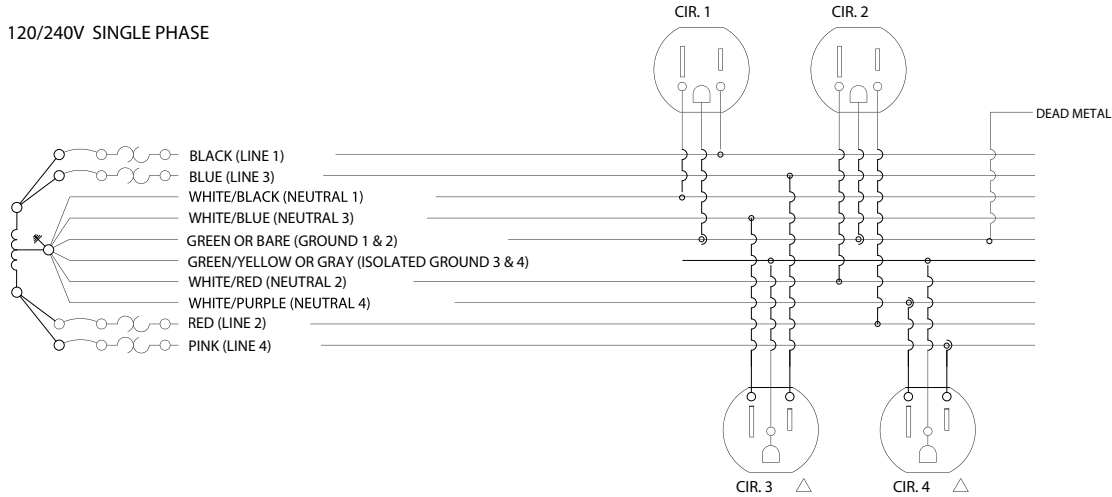
Have a certified electrician hard-wire the panel power infeed to the building power source according to the National Electrical Code and any other applicable local codes. See the chart for proper wiring connection to available power.

### 4-4-2

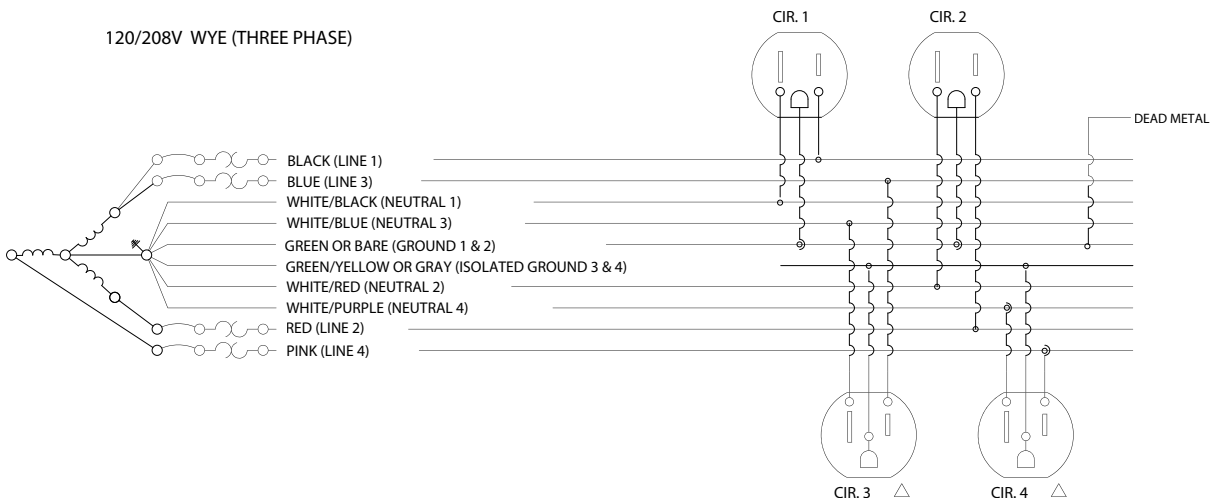
Receptacles available	Wires to be used	Gauge of wire
Circuit 1	Black White/Black Letters Green or Bare	12 12 12
Circuit 2	Red White/Black Letters Green or Bare	12 12 12
Circuit 3	Blue White/Black Letters Green/Yellow Stripe or Gray	12 12 12 12
Circuit 4	Pink White/Purple Letters Green/Yellow Stripe or Gray	12 12 12

### 4-4-2 CONNECTION DIAGRAMS

120/240V SINGLE PHASE



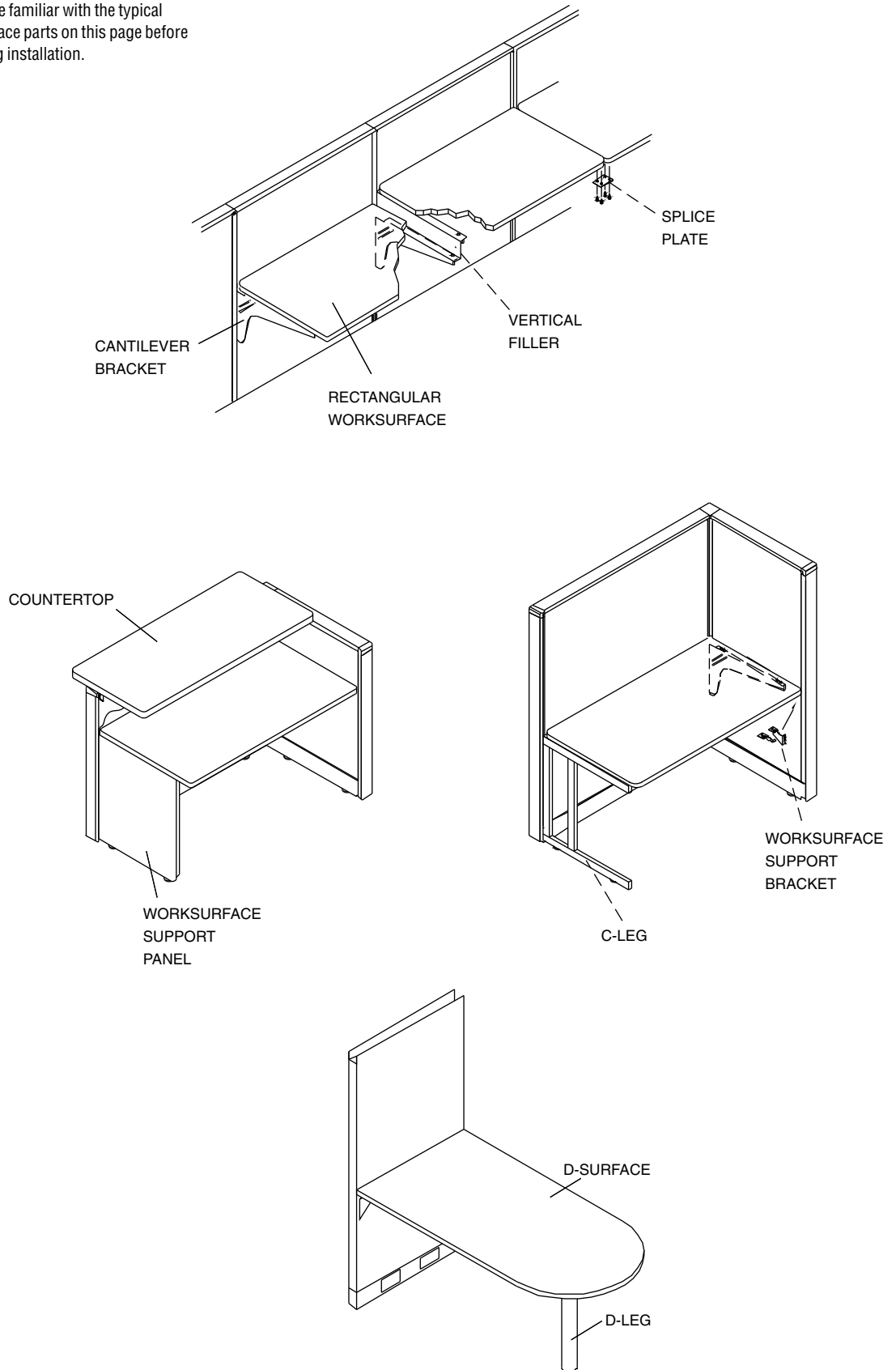
120/208V WYE (THREE PHASE)



# Worksurface Installation

## PARTS IDENTIFICATION

1. Become familiar with the typical worksurface parts on this page before beginning installation.



# Classic XXI

## Worksurface Installation

### CANTILEVER BRACKETS

1. Cantilever brackets are attached to the panels by inserting the teeth along the rear edge into the slotted trimrail on the panel. Cantilever brackets are height adjustable in 1" increments. Each worksurface will be supported by at least (2) cantilever brackets (1 left, 1 right).

2. On the left end of the panel the worksurface is going to be attached to, determine the desired height of the worksurface (typically about 29½" to 30" above the floor).

3. Locate the trimrail slot approximately 2¼" below the desired worksurface height.

4. Holding the front edge of a left hand cantilever bracket (stamped with an "L") higher than the rear edge with the teeth, slide the top safety tooth into the trimrail slot you located in step 3 (Figure 1).

5. Pivot the cantilever bracket down until all the teeth are in the slots and the top of the cantilever bracket is approximately horizontal.

**DO NOT FORCE THE CANTILEVER BRACKET. FORCING MAY CAUSE DAMAGE TO THE TOP SAFETY TOOTH, OR THE PANEL FABRIC.**

6. Push the cantilever bracket down about ¼" so all the teeth are engaged in the slots.

7. Repeat the steps with a right hand cantilever bracket (stamped with an "R") on the right end of the panel.

**NOTE: On worksurfaces 60" or longer and on 90° corner worksurfaces, a second "L" cantilever bracket is installed in the panel joint near the center of the worksurface (Figure 3).**

8. Set the worksurface on the cantilever brackets and line up the worksurface pilot holes with the slots on the cantilever brackets. Secure the worksurface to the brackets using (2) #14 x ¾" screws in each bracket (Figure 2).

**CAUTION: To remove a cantilever bracket from a panel, the worksurface must be removed. After removing the worksurface, push up on the bottom of the cantilever bracket about ¼". Grasp the bottom of the bracket and rotate it up and towards you until the top-back corner of the bracket almost touches the panel. Pull the bracket straight out towards you.**

**DO NOT FORCE THE CANTILEVER BRACKET. FORCING MAY CAUSE DAMAGE TO THE TOP SAFETY TOOTH, OR THE PANEL FABRIC.**

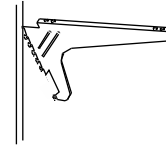


FIG. 1

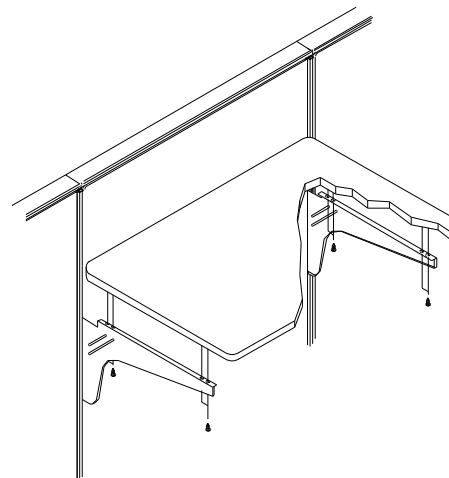


FIG. 2

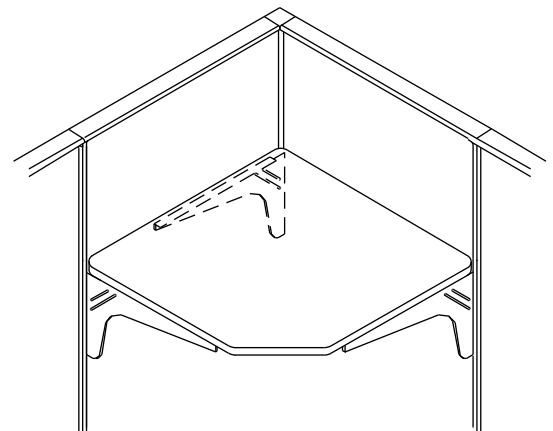


FIG. 3

# Worksurface Installation

## WORKSURFACE SUPPORT PANELS (WSSP) & C-LEGS

### Worksurface Support Panel

1. Attach support panel bracket to top of worksurface support panel with (4) #14 x  $\frac{3}{4}$ " tapping screws into the pre-drilled holes (Figure 1).
2. Retract the glides on the worksurface support panel completely. Insert the teeth of the support panel into the trim rail grooves so that the top of the support panel is approximately  $28\frac{3}{8}$ " from the floor. Adjust the glides down to the floor to lock the support panel teeth in place. Using a pry bar to lift the support panel into full engagement will make adjusting the glides easier.
3. Mount the worksurface on the worksurface support panel. Attach the worksurface to the cantilever bracket and the support panel bracket using (4) #14 x  $\frac{3}{4}$ " tapping screws (Figure 2).

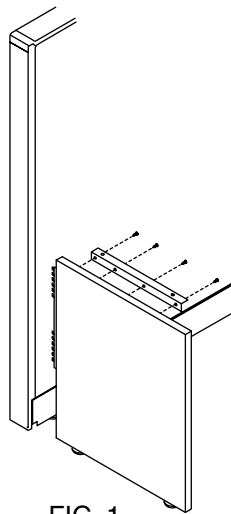


FIG. 1

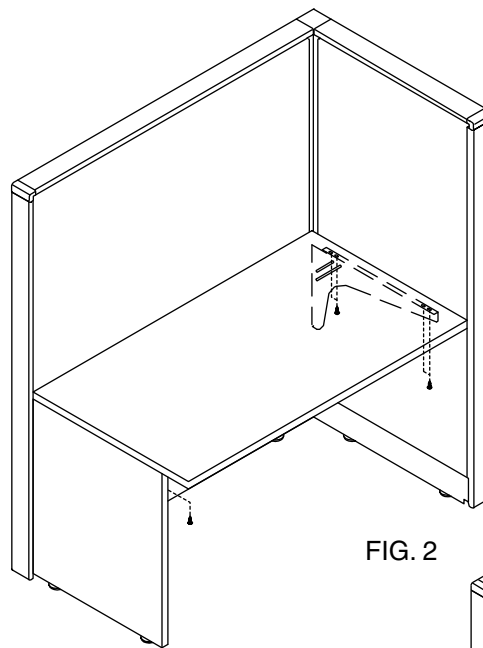
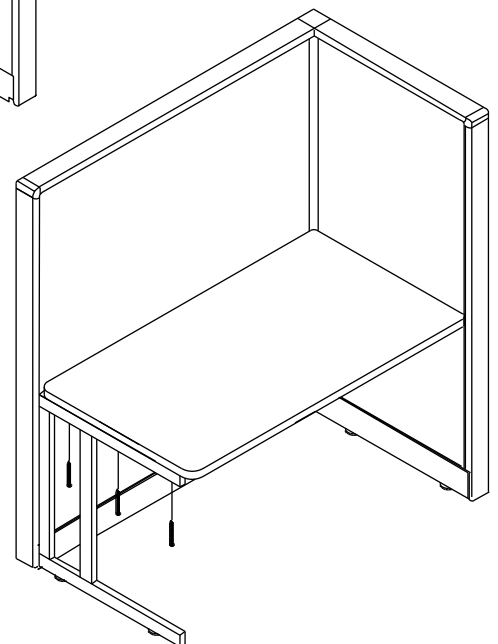


FIG. 2

### C-Leg Worksurface Support

1. Retract the glides on the C-leg completely into the bottom leg. Insert the teeth on the C-leg into the slots in the trimrail groove so the top of the C-leg is about  $28\frac{3}{8}$ " from the floor. Adjust the glides down to the floor to lock the C-leg in place. Using a pry bar to lift the C-leg into full engagement will make adjusting the C-leg easier. The upward pointing teeth should engage into the trimrail slots.
2. Mount the worksurface on the C-leg, and align the C-leg so it is straight, front to back, below the worksurface. Attach the worksurface to the C-leg using (3)  $\frac{3}{4}$ " screws that go through the holes in the C-leg top tube, and into the worksurface.

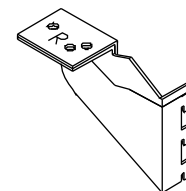
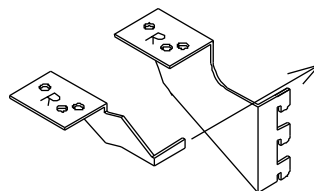
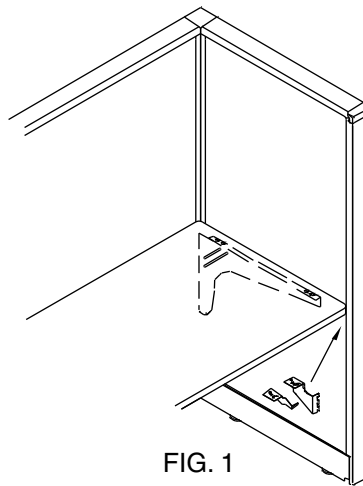


# Classic XXI

## Worksurface Installation

### WORKSURFACE SUPPORT BRACKETS (WSB)

1. Worksurface support brackets are used at the front corners of worksurfaces when excessive loads are going to be placed on a worksurface, and the worksurface is wrapped with a panel the same depth as the worksurface.
  2. Install the worksurface on the cantilever brackets in the usual way (see page 2-1-2).
  3. While lifting the front edge of the worksurface slightly, slide the teeth on the WSB into the trimrail slot so the top of the WSB is the same height as the bottom of the worksurface (Figure 1).
- NOTE: The WSB bracket and the lock clip are “handed” and are stamped with either an “L” or an “R.”**
4. The WSB will drop down about  $\frac{1}{4}$ ” when the teeth are fully engaged.
  5. Slide the thin tab on the WSB lock clip into the remaining slot opening above the top tooth of the WSB (Figure 2) until the bracket and the lock clip mate together (Figure 3).
  6. Drive (1) #14 x  $\frac{3}{4}$ ” screw through the holes in the bracket and the lock clip to attach them to the worksurface bottom.



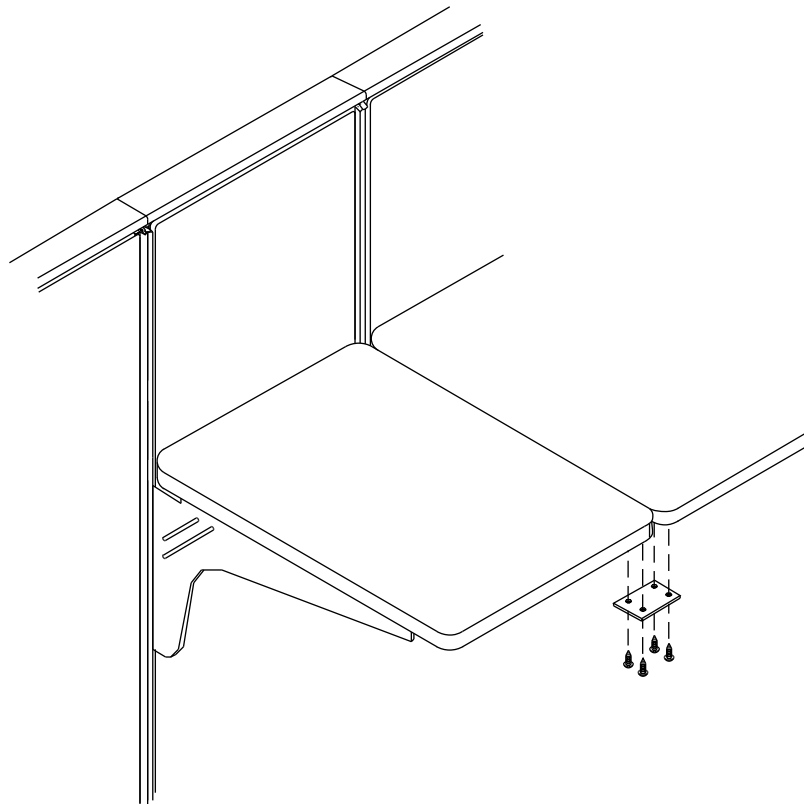


## Worksurface Installation

### SPLICE PLATES

**Note:** Adjacent worksurfaces should always be connected with a splice plate.

1. Position a splice plate on the bottom of (2) adjacent worksurfaces near the front so that (2) holes are under each worksurface.
2. If pilot holes do not exist, mark the holes and drill (4) pilot holes for the #14 x  $\frac{3}{4}$ " screws. Holes should be  $\frac{3}{16}$ " dia. x  $\frac{5}{8}$ " deep.
3. Making sure the (2) worksurfaces are aligned, tighten the screws through the splice plate and into the bottom of the worksurface.



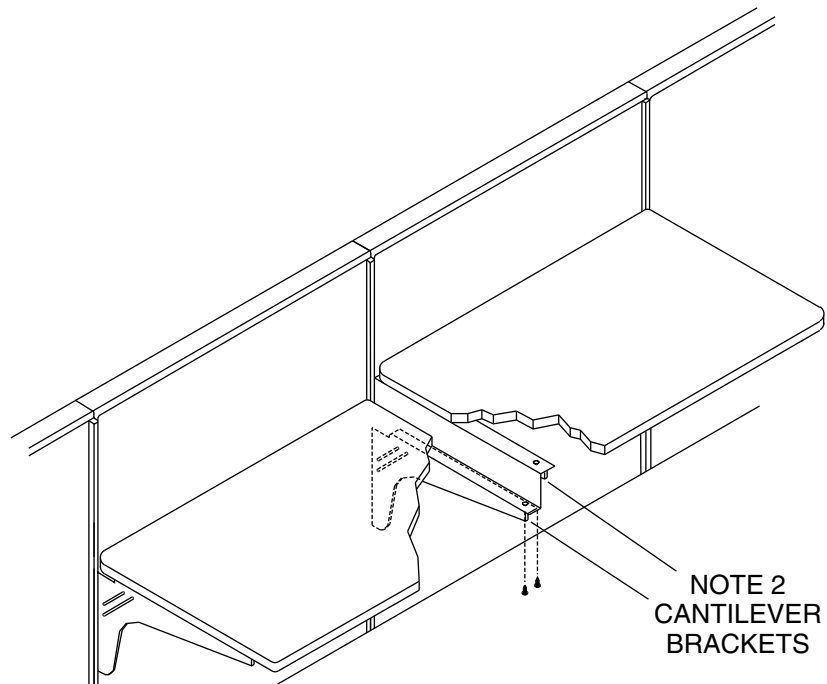
# Classic XXI

## Worksurface Installation

### VERTICAL FILLER PLATE

Worksurfaces to be joined with a vertical filler plate must be positioned as shown with 3" difference in height, and be supported by cantilever brackets.

1. Remove (2) screws from each cantilever bracket beside the gap to receive the filler plate.
2. Slide filler plate from the front towards the rear of the worksurface with flanges of filler over the top of each cantilever bracket. Position the cantilever brackets and filler plate so the holes align with original pilot holes in the bottom of each worksurface and refasten using the original screws.



## Worksurface Installation

### COUNTERTOPS

#### Countertop Surface (see page 2-1-8 if installing on a 32" panel)

1. Included with each countertop is a right-hand and left-hand countertop bracket and lock bracket. Parts are stamped with an "R" or an "L" to help with identification. Brackets are installed on the inside of the workstation.

2. With the top cap still on the panel, insert the right-hand countertop bracket into the panel trimrail so that the top tooth on the bracket is in the top slot of the trimrail. Tap the countertop bracket down with a hammer until it is fully seated (Figure 1 - Step 1).

3. Slide a right-hand countertop lock bracket into the remaining space in the top trimrail slot while holding the lock bracket (Figure 1 - Step 2). When lock bracket is fully installed, the holes should line up on both brackets (Figure 1 - Step 3).

4. Repeat procedure with left-hand bracket on opposite end of panel.

5. Set the countertop on the (2) brackets and drive (4) #12 x 1" screws into the pre-drilled holes in the countertop. Note that when properly installed, the countertop will extend approximately 4" over the panel on the outside of the workstation (Figure 2).

6. If (2) countertops are adjoining each other, mount a splice plate in the pre-drilled holes on the inside of the station, and secure with (4) #12 x 1" screws.

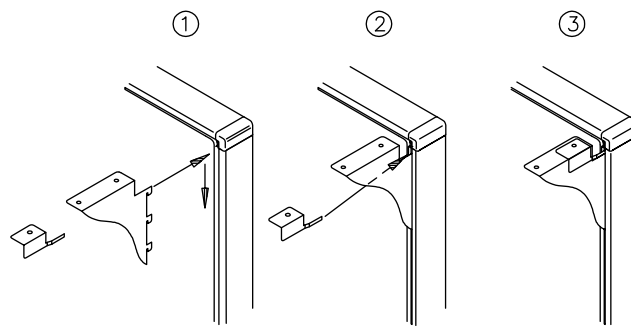


FIG. 1

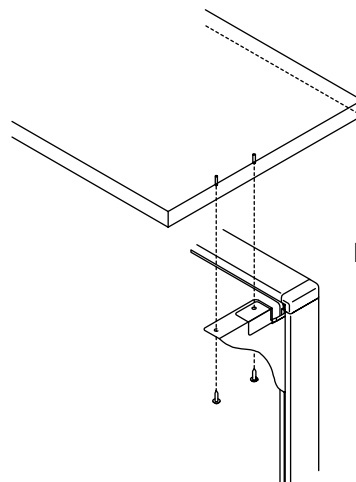


FIG. 2

# Classic XXI

## Worksurface Installation

### COUNTERTOPS ON 32" PANELS

#### Countertop Surface on a 32" Panel

**Note:** The configuration shown in this instruction portrays the cantilever bracket/support panel combination. Your specific worksurface configuration may vary depending on different space planning needs.

1. On the side opposite the worksurface (outside the workstation), mount the ADA outer countertop brackets to the panel trimrail grooves so that mounting flanges are at the same height as panel top. The right and left brackets will be different. Notice that the mounting flanges face inward as installed to the panel (Figure 1).
2. Mount the ADA inner countertop brackets to the panel trimrail grooves at the same height as the outer brackets but on the side that the worksurface will be installed on (inside the workstation). Orient these also with the mounting flange facing inward. (Figure 1).

**NOTE:** The inner lock clip is an important part of the bracket assembly which will be installed later when countertop surface is installed.

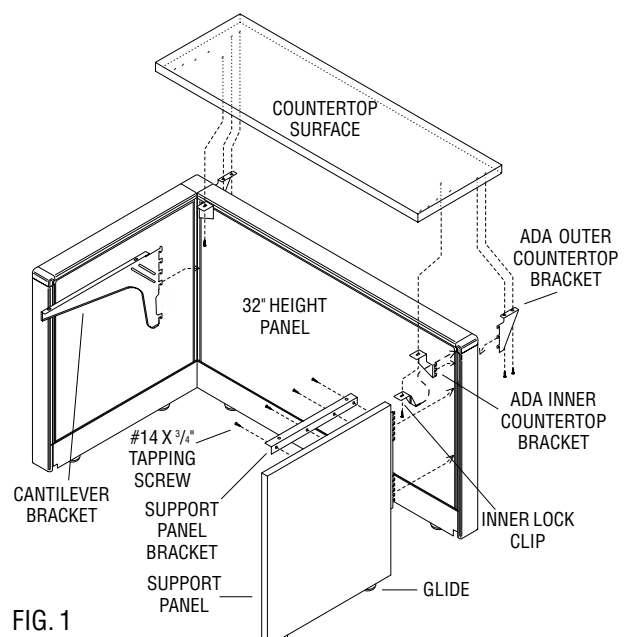
3. Turn countertop surface upside down on a soft protective surface. Follow the instructions on the *ADA Bracket Hole Location Template for 32" High Countertop* that is packed with the countertop, to add mounting holes to the underside of the countertop surface.

4. Turn countertop surface face up onto top of 32" panel. Align holes of ADA outer countertop brackets with corresponding (2) holes at each end of countertop surface. Attach brackets to underside of worksurface with (2) #12 x 1" screws each side. Do not tighten at this time (Figure 1).

5. Install the worksurface cantilever brackets as shown on page 2-1-2 BEFORE screwing countertop in place. Worksurface is screwed in place in step 10.

6. Take right and left side inner lock clips (inside the workstation) and orient pin ends into panel trimrail grooves at top tooth of installed inner countertop brackets. Make sure mounting flanges face inward and that the mounting holes of the lock clip line up with the mounting holes of the bracket. Attach bracket and lock clip to countertop surface at each end of panel with (1) #12 x 1" screw each side. Tighten all inner and outer screws at this time (Figure 1).

**NOTE:** If your configuration does not include the installation of a worksurface support panel, disregard instructions 6 through 9. Go on to number ten and install a cantilever bracket where support panel is depicted in Figure 1.



## Worksurface Installation

### COUNTERTOPS ON 32" PANELS (cont.)

7. Take the support panel and the support panel mounting bracket in hand. Position the mounting bracket against the mounting holes **down one set**. Drive (4) #14 x 3/4" tapping screws into the pre-drilled holes and tighten. There will be (2) support bracket holes where no pilot holes are drilled in the support panel. Drill pilot holes into support panel through support panel bracket holes with a 9/64" (.140) drill bit. Insert and tighten (2) remaining screws (Figure 2).

8. Attach support panel bracket to top of worksurface support panel with (4) #14 x 3/4" tapping screws (Figure 2).

9. Retract the glides on the worksurface support panel completely. Insert the teeth of the support panel into the trimrail grooves so that the top of the support panel is approximately 28 3/8" from the floor. Adjust the glides down to the floor, pushing the panel and teeth up to lock the support panel in place (Approximately 28 9/16" from floor) (Figure 1, page 2-1-8).

10. Position the worksurface on the cantilever bracket and the worksurface support panel (or cantilever bracket). Attach the worksurface to the cantilever bracket and the support panel using (4) #14 x 3/4" tapping screws (Figure 3).

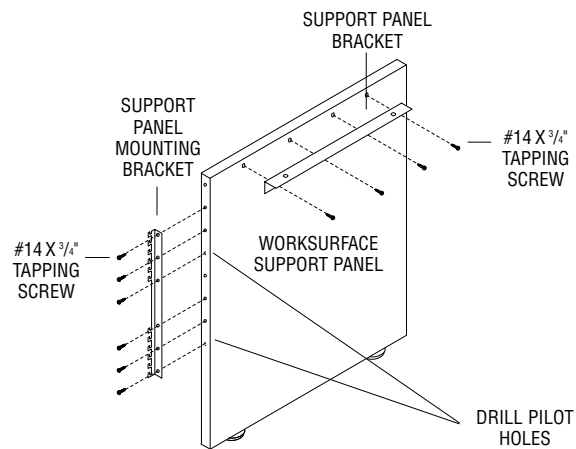


FIG. 2

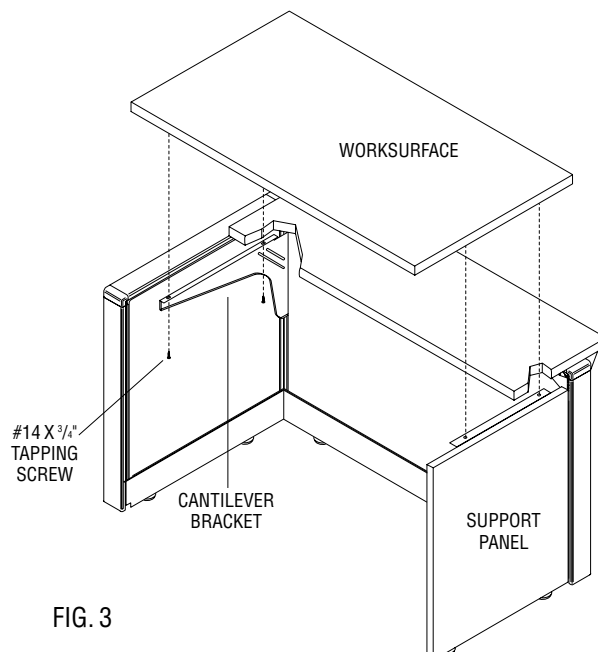


FIG. 3

# Classic XXI

## Worksurface Installation

### D-SURFACES

#### D-Shaped Worksurfaces

##### Column Leg

1. Place worksurface bottomsides up on a soft surface.
2. Fasten D-leg column to round end of worksurface with (4) tapping screws provided (Figure 1).
3. Thread the leveler glide into upward end of column (it can be adjusted downwards if, and when, required).

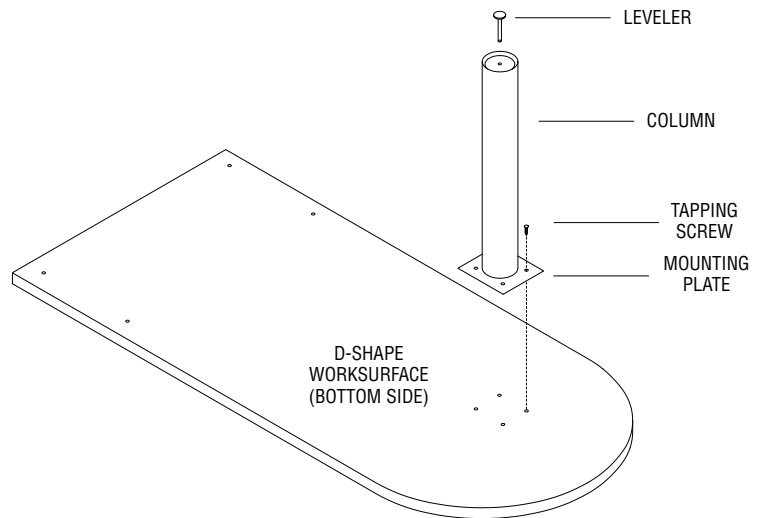


FIG. 1

##### Mounting to a Panel

1. When the square end of a “D” worksurface is to be attached to a panel (Figure 2), you will use the two Worksurface Support Brackets and lock clips that are included with the worksurface. See page 2-1-4 for WSB install instructions.

##### Mounting to Another Worksurface

1. When the square end of a “D” worksurface is to be attached to an adjacent worksurface (Figure 3), you will use the large splice plate and screws that are included with the worksurface. The “D” worksurface is pre-drilled to accept the splice plate. Due to the wide variety of locations where the “D” worksurface might be attached to the adjacent worksurface, pilot holes will need to be drilled once the final location is determined. Pilot holes should be  $\frac{3}{16}$ ” dia. x  $\frac{5}{8}$ ” deep.

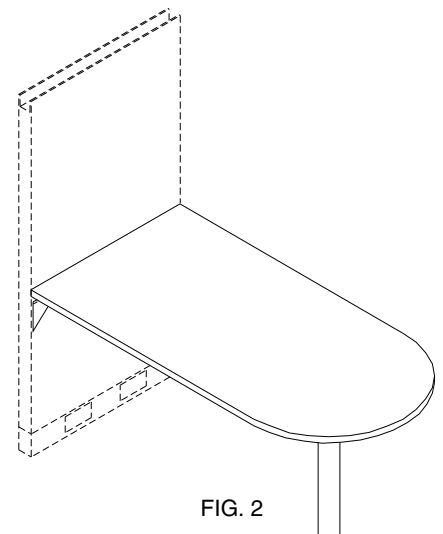


FIG. 2

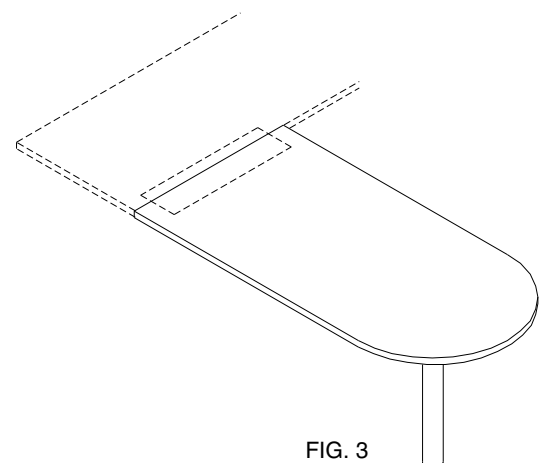


FIG. 3

# Hang-On Storage

## LAMINATE END OVERHEADS, SHELVES AND COAT RACKS

### LAMINATE END OVERHEAD UNITS

1. On each of the two end panels back out the screws, noted in Figure 1, (2) full turns.

**NOTE:** These screws will be located on the inside of the overhead unit when it is assembled.

2. Decide on the panel height where you want to locate the overhead unit. Holding the front edge of the end panel higher than the rear edge (Figure 1), slide the top safety tooth into the appropriate slot on the panel trimrail.

**NOTE:** Typically the top of the end panels are mounted at about 65" from the floor. This height would use the top slot on a 66" panel trimrail.

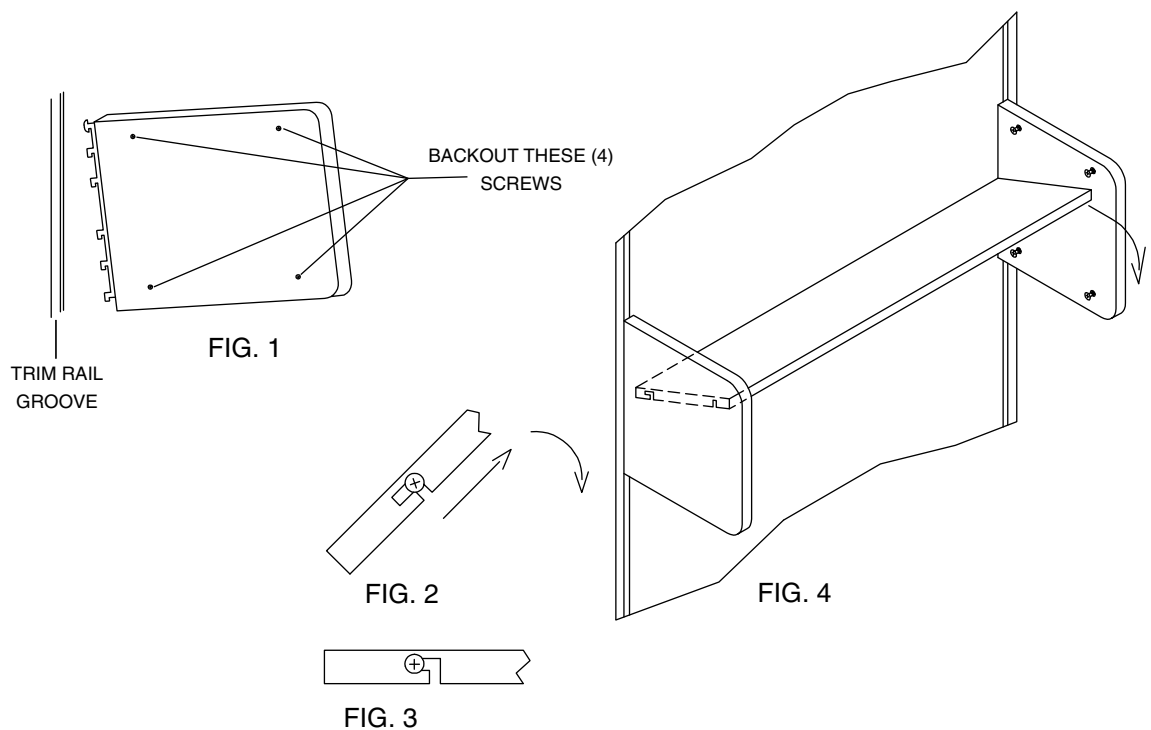
3. Pivot the end panel down until all the teeth are in the slots and the top of the end panel is approximately horizontal. **DO NOT FORCE THE END PANEL. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

4. Push the end panel down about 1/4" so all the teeth are engaged in the slots.

**NOTE:** To remove an end panel from the trimrail, push the end panel up about 1/4" and rotate the lower edge away from the panel until the top-back corner of the end panel almost touches the trimrail. Pull the end panel straight out. **DO NOT FORCE THE END PANEL. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

5. Repeat the procedure with the other end panel at the same height.

**CAUTION:** Failure to properly install the end panels may cause cabinet failure and personal injury.



# Classic XXI

## Hang-On Storage

### LAMINATE END OVERHEADS, SHELVES AND COAT RACKS (CONT.)

6. Holding a shelf so the sets of (3) holes are along the back edge, place the shelf over the back set of the lower height screws (Figure 2). Pull the shelf forward and then pivot it down until all the screws are fully engaged in the shelf slots (Figure 3). DO NOT tighten the screws at this time.

7. Place the shelf/door assembly (with the end slots and door as shown in Figure 5) over the front upper set of screws (Figure 6). Push the shelf/door assembly back so the rear shelf slots slide over the rear set of screws (Figure 7).

8. Tighten all (4) screws on each end panel to secure the shelves.

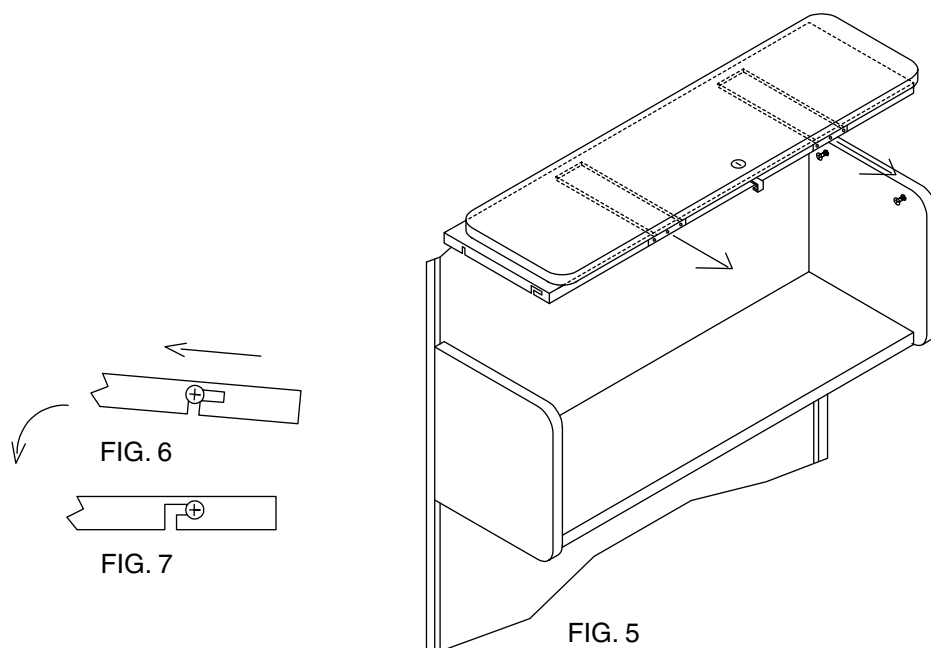
9. On some thicker fabric situations, it may be necessary to adjust the door side to side so it does not rub on an adjacent panel when being opened or closed. Loosen but DO NOT REMOVE the (3) screws in each hinge mechanism along the front edge of the top shelf. Slide the door away from the adjacent panel until it does not rub. Tighten all the screws.

### Laminate End Regular and Low Shelves

1. For the installation of shelf units follow steps 1-6 for Laminate End Overhead Units. The difference is that there will only be (2) screws per end panel, and the ends are typically installed so the bottom edge is the same height as any overhead units nearby.

### Laminate End Coat Rack

1. For the installation of Coat Rack units follow steps 1-6 for laminate end overhead units. The difference is that there will only be (2) screws per end panel, and before installing the shelf in place, the coat rod should be set in the round pockets in each end panel. When the (4) shelf screws are tightened, the rod will be held in place.





## Hang-On Storage

### LAMINATE END OVERHEAD SHELF BACK AND LAMINATE END STORAGE UNIT SHELF DIVIDER

#### Laminate End Overhead Shelf Back

1. Carefully slide bottom of "shelf back" between the panel fabric and the bottom shelf (Figure 1).
2. Push hem of "shelf back" onto lip of the top shelf (Figure 2).

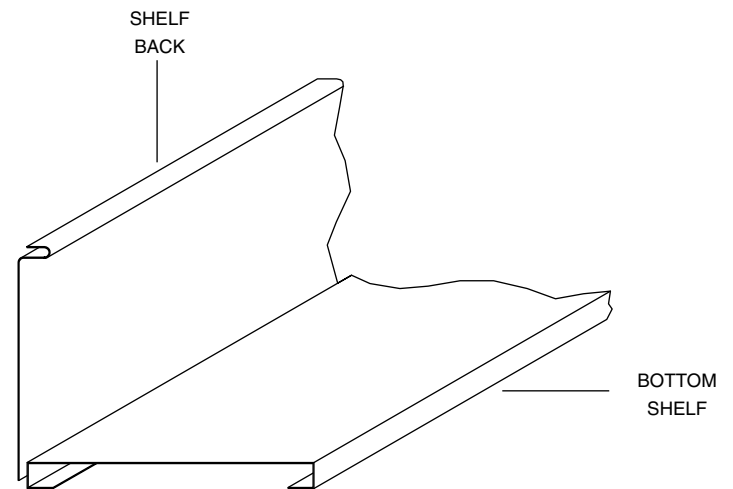


FIG. 1

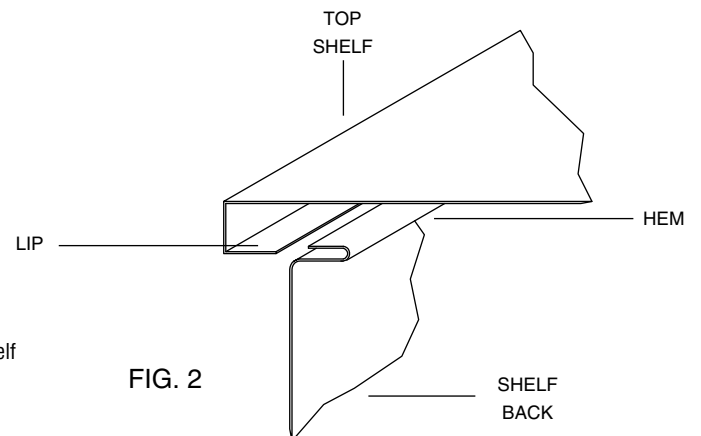


FIG. 2

#### Laminate End Storage Unit Shelf Divider

The "shelf divider" can be located at any point along the shelf (Figure 3).

1. Clip the hooked end of the divider over the front edge of the bottom shelf.
2. Tuck rear edge of shelf divider between the panel fabric and the shelf.

**Note:** To change the location of the divider, remove it from the shelf and reinstall it at the desired location. Sliding it may cause scratches.

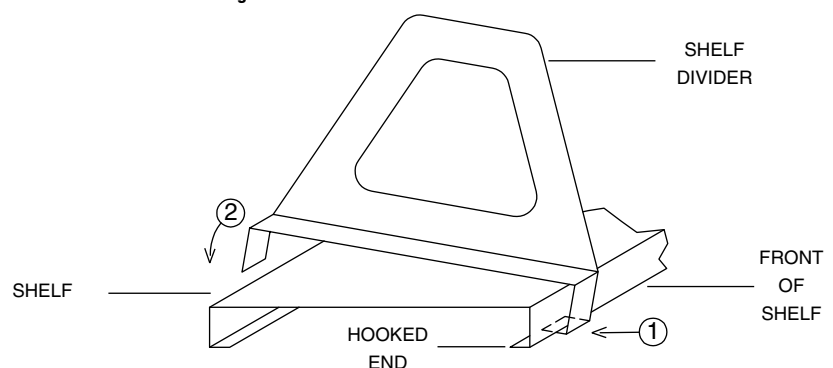


FIG. 3

# Classic XXI

## Hang-On Storage

### RADIUSED UNIVERSAL OVERHEADS

#### Radiused Universal Overheads

1. Assemble the cabinet back, the left and right side panels and the mounting brackets together by inserting the holes in the side panels and mounting brackets over the studs on the cabinet back (Figure 1). Loosely fasten the parts together with (6) flange nuts. DO NOT tighten the nuts at this time.

2. Set the bottom shelf into position by locating the side flanges of the shelf into the lower support flanges of the side panels (Figure 2).

3. Press the bottom shelf down and adjust until the (4) screw holes in the shelf side flanges are visible through the slots in the side panel lower support flanges.

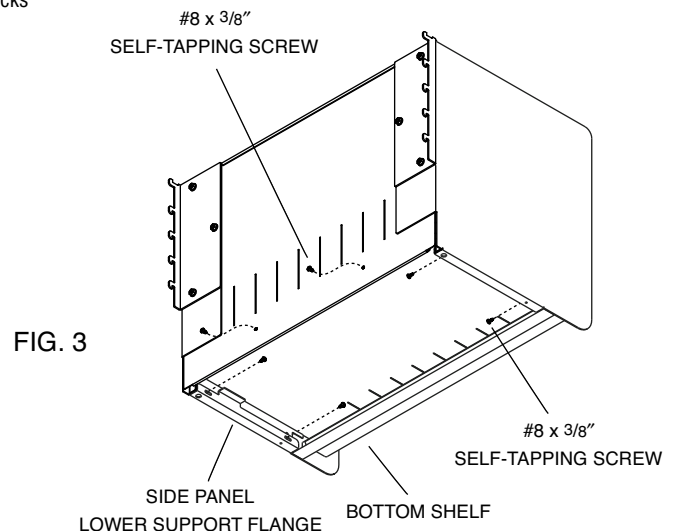
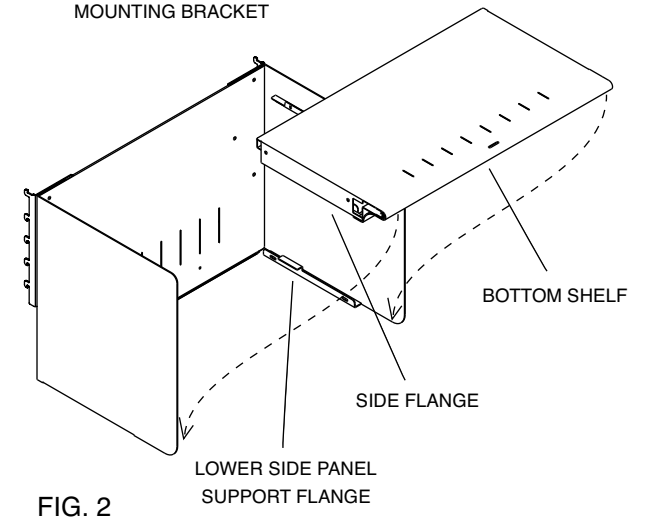
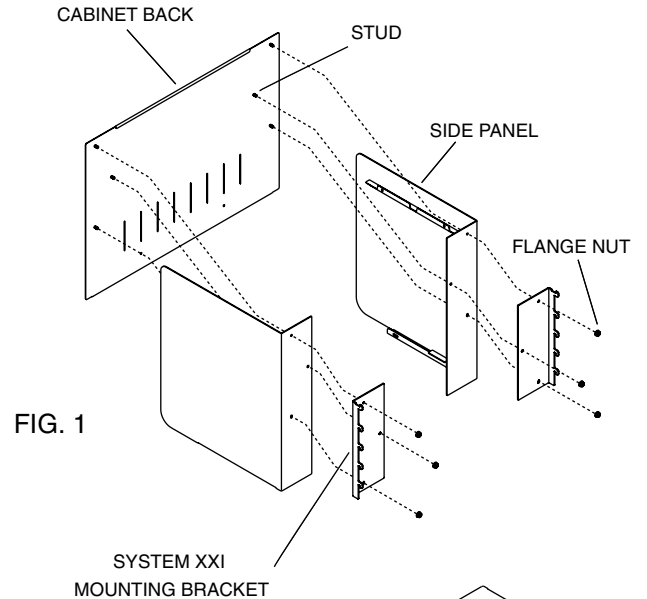
4. From under the cabinet, install (4) #8 x 3/8" self-tapping screws through the slots in the side panel support flanges (Figure 3). DO NOT tighten the screws down completely.

5. At the lower edge of the cabinet, install (2) #8 x 3/8" self-tapping screws through the back and into the shelf (Figure 3). DO NOT tighten the screws down completely.

6. Place the overhead top shelf/door assembly into the upper support flanges of the side panels (Figure 4, page 2-2-5). Push the shelf/door down and align the round front edge of the shelf with the matching round top-front corner on the side panels. Install and tighten (4) #8 x 3/8" self-tapping screws through the (4) larger oblong holes in the rack and pinion door mechanism inside the shelf/door assembly (Figure 4, page 2-2-5).

7. The recessed door may now be pulled out and lowered to its closed position. Adjust the bottom shelf so the door hangs straight and flush with the end panels. Tighten the (4) screws that attach the bottom shelf to the side panels, the (2) screws that attach the cabinet back to the shelf and the (6) flange nuts.

8. Using the key, test the lock mechanism to assure the door locks properly.



# Hang-On Storage

## RADIUSED UNIVERSAL OVERHEADS (cont.)

### Hanging the Overhead Unit

**NOTE: It is recommended that two people work together to install an overhead unit.**

1. Decide on the panel height where you want to locate the overhead unit. Holding the front edge of the overhead unit higher than the rear edge (Figure 5), slide the top safety teeth into the appropriate slots on the panel trimrails.

**NOTE: Typically the top of the overhead unit will be about 65" from the floor. This height would use the top slot on a 66" panel trimrail.**

2. Pivot the overhead unit down until all the teeth are in the slots and the top of the overhead unit is approximately horizontal. **DO NOT FORCE THE OVERHEAD UNIT. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

3. Push the overhead unit down about  $\frac{1}{4}$ " so all the teeth are engaged in the slots.

**NOTE: To remove an overhead unit from the trimrail, push up on the ends about  $\frac{1}{4}$ " and rotate the lower edge away from the panel until the entire unit can be lowered to disengage the top safety tooth. DO NOT FORCE THE OVERHEAD UNIT. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

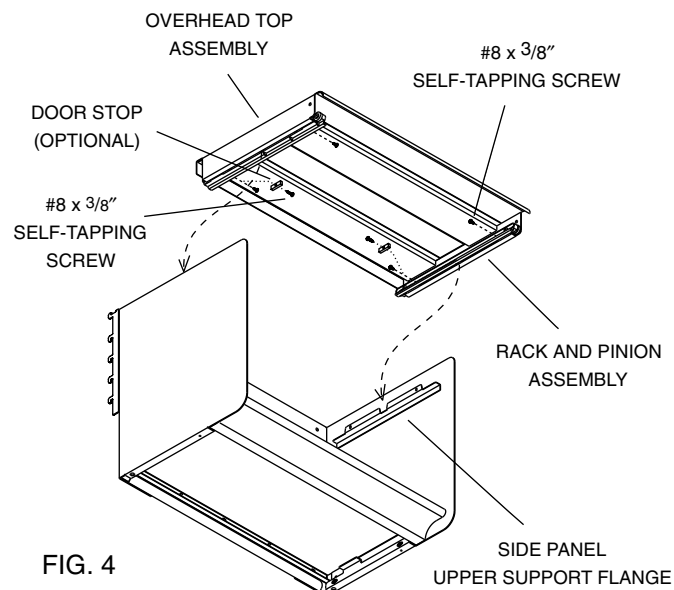


FIG. 4

4. When (2) or more overhead units are installed next to each other, secure them together with a ganger plate. The ganger plate is an oval shaped plate with (2) holes that is attached near the front edge of the end panels on the adjacent overhead units, using (2) #8 x  $\frac{5}{8}$ " black screws. (Figure 1, page 2-2-8).

### Door Stops

**NOTE: For those users who wish to leave the key in the lock when the door is opened and stored, there is a set of door stops that may be installed to prevent the door from receding beyond the key location. If the door is opened with the key in the lock and the door stops not installed, damage to the front edge of the top shelf or the key may occur.**

1. To install the door stops, open the door and push it all the way into the cabinet.

2. Pull the door out about 4" to allow the installation of the door stops.

3. Remove the rear #8 x  $\frac{3}{8}$ " screw (installed in step 6 on page 2-2-4).

4. Insert a #8 x  $\frac{3}{4}$ " self-tapping screw through the oval shaped door stop, and attach the door stop to the rack mechanism where the rear screw was just removed (Figure 4).

5. Repeat step 4 on the opposite end of the cabinet.

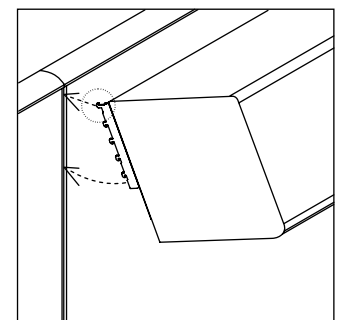


FIG. 5

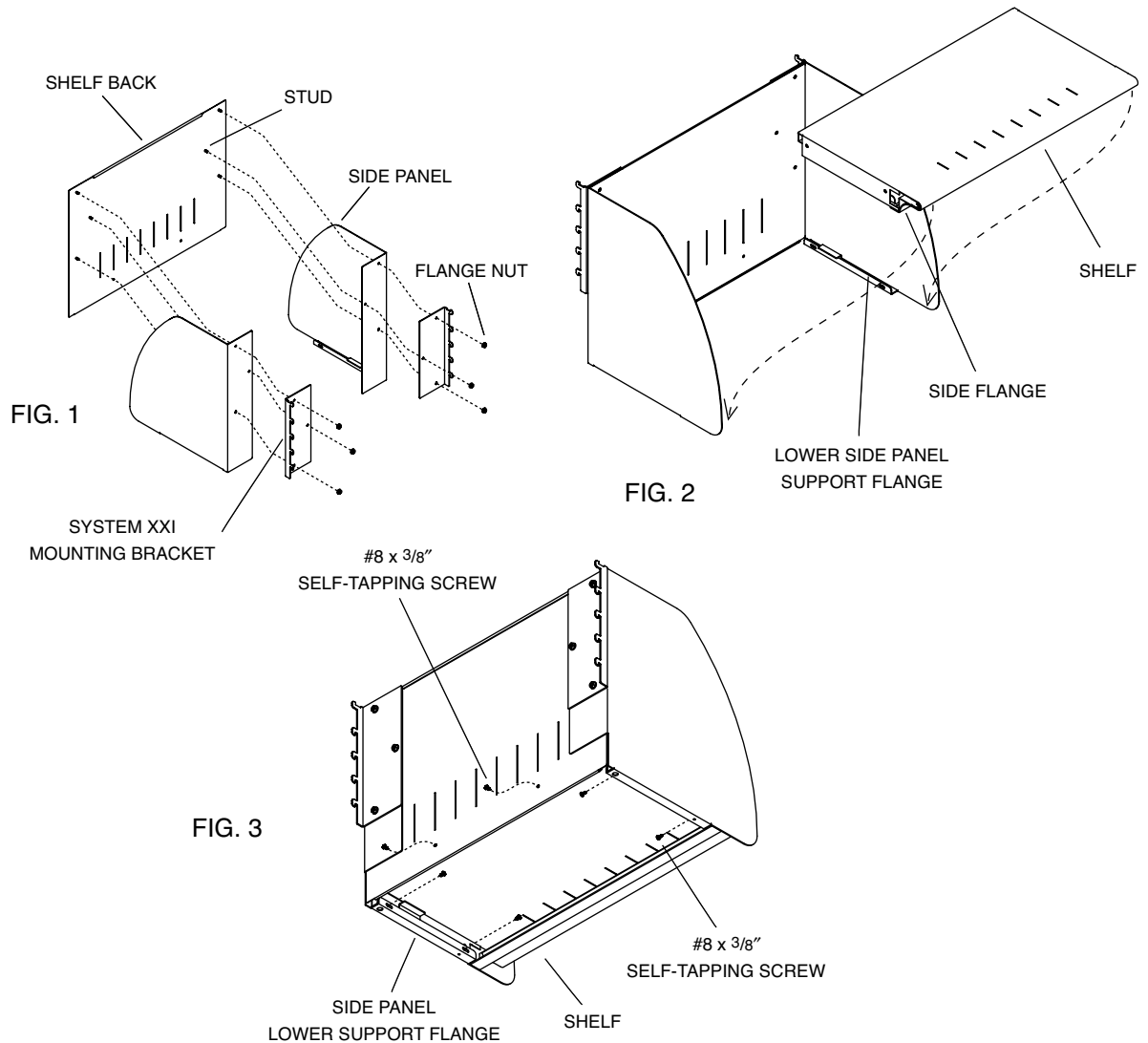
# Classic XXI

## Hang-On Storage

### RADIUSED UNIVERSAL SHELVES

#### Radiused Universal Shelves

1. Assemble the cabinet back, the left and right side panels and the mounting brackets together by inserting the holes in the side panels and mounting brackets over the studs on the cabinet back (Figure 1 below). Loosely fasten the parts together with (6) flange nuts. DO NOT tighten the nuts at this time.
2. Set the shelf into position by locating the side flanges of the shelf into the lower support flanges of the side panels (Figure 2).
3. Press the shelf down and adjust until the (4) screw holes in the shelf side flanges are visible through the slots in the side panel lower support flanges.
4. From under the cabinet, install (4) #8 x 3/8" self-tapping screws through the slots in the side panel support flanges (Figure 3). DO NOT tighten the screws down completely.
5. At the lower rear edge of the cabinet, install (2) #8 x 3/8" self-tapping screws through the back and into the shelf (Figure 3).
6. Tighten all (6) screws and flange nuts.



## Hang-On Storage

### RADIUSED UNIVERSAL SHELVES (CONT.)

#### Hanging the Shelf Unit

**NOTE: It is recommended that two people work together to install a shelf unit.**

1. Decide on the panel height where you want to locate the shelf unit. Holding the front edge of the shelf unit higher than the rear edge (Figure 4), slide the top safety teeth into the appropriate slots on the panel trimrails.
2. Pivot the shelf unit down until all the teeth are in the slots and the bottom edge of the shelf unit is approximately horizontal. **DO NOT FORCE THE SHELF UNIT. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**
3. Push the shelf unit down about  $\frac{1}{4}$ " so all the teeth are engaged in the slots.

**NOTE: To remove a shelf unit from the trimrail, push up on the ends about  $\frac{1}{4}$ " and rotate the lower edge away from the panel until the entire unit can be lowered to disengage the top safety tooth. DO NOT FORCE THE SHELF UNIT. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

4. When (2) or more shelf units are installed next to each other, secure them together with a ganger plate. The ganger plate is an oval shaped plate with two holes that is attached near the front edge of the end panels on the adjacent shelf units, using (2) #8 x  $\frac{5}{8}$ " black screws. (Figure 1 page 2-2-8).

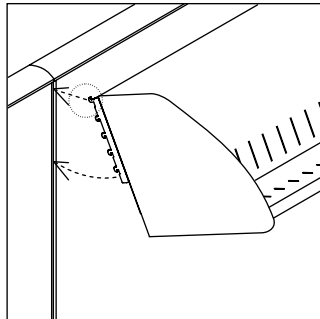


FIG. 4

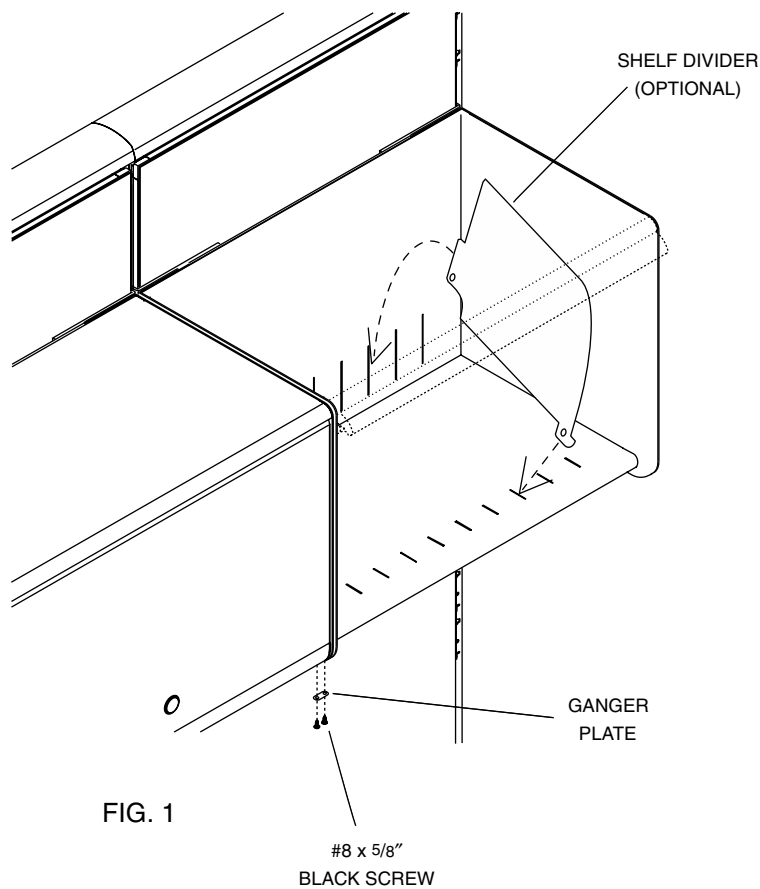
# Classic XXI

## Hang-On Storage

### RADIUSED UNIVERSAL SHELF DIVIDERS

#### Radiused Universal Shelf Dividers

1. To install the optional shelf divider, place the front hook on the divider into the slot at the front of the shelf.
2. Rotate the rear of the divider down until the rear tab snaps into the vertical slot in the cabinet back (Figure 1).
3. To remove a divider, press lightly on the cabinet back to release the rear tab. Rotate the divider out of the cabinet and release the front hook.



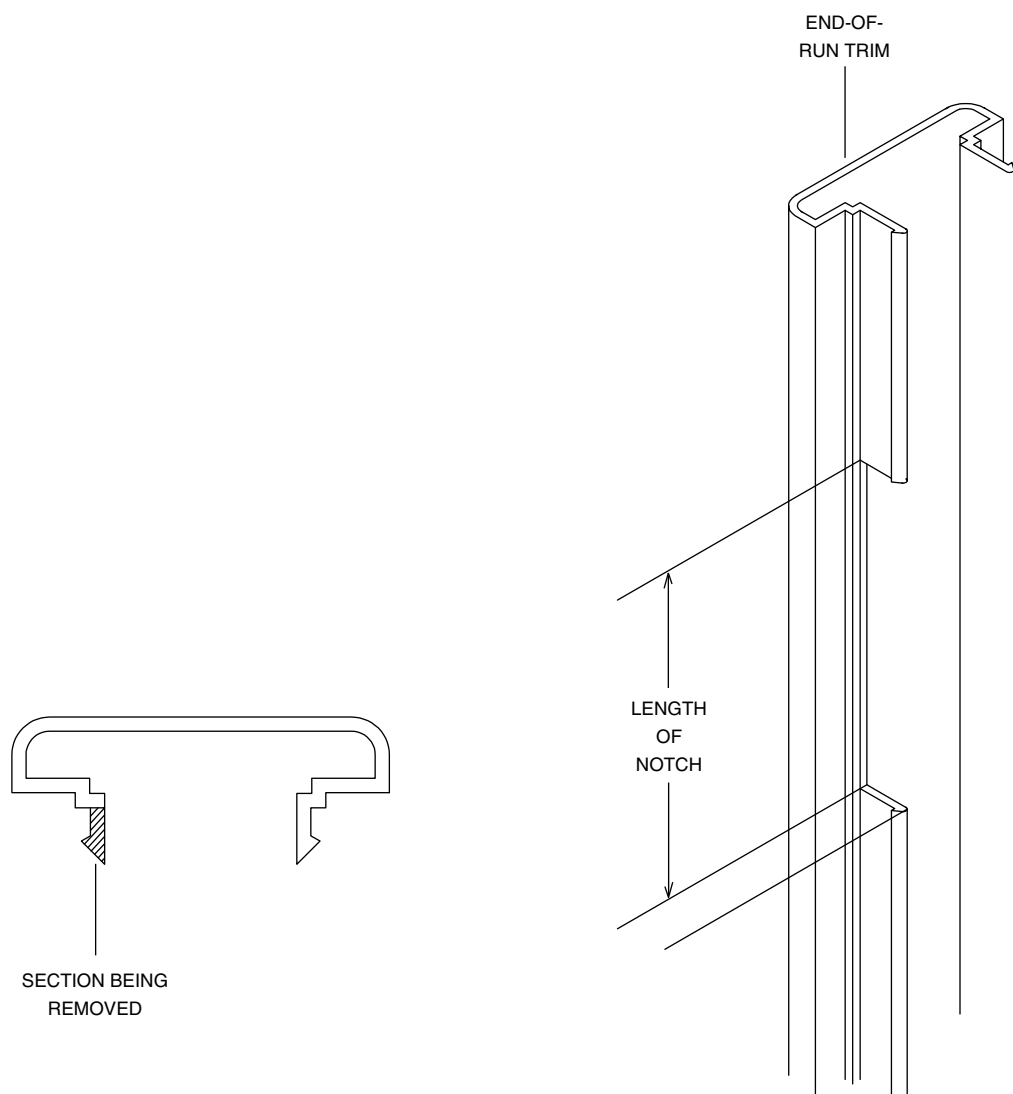
## Hang-On Storage

### PANEL TRIM/BRACKET INTERFERENCE

#### Bracket/End-of-Run Interference

When inserting any toothed bracket such as an auxiliary bracket, cantilever bracket, storage cabinet bracket, or a countertop bracket at the end of a panel run, it is necessary to notch the end-of-run trim around the bracket teeth.

1. Determine where bracket is to be mounted, and mark where bracket teeth would interfere with end-of-run trim.
2. Remove end-of-run trim, and notch it (score with utility knife and snap out section).
3. Replace end-of-run trim, and insert bracket.



# Classic XXI

## Hang-On Storage

### CORNER BOOKSHELF

#### Corner Bookshelf

1. Measure from the top of the panel down, and make a pencil mark on the trimrails at the height you would like the top of the corner bookshelf surface.

2. You will receive (3) 14" deep cantilever brackets with the corner bookshelf: (2) left-hand brackets and one right-hand. The right-hand bracket will install at the right end of the corner bookshelf. One of the left-hand brackets will install at the left end of the corner bookshelf, and the other left-hand bracket will install in the back corner off the right side panel (Figure 1).

3. Install the (3) cantilever brackets in the slotted trimrail about 2" below the pencil mark you made in step 1.

4. Holding the front edge of the cantilever bracket higher than the rear edge (Figure 2), slide the top safety tooth into the appropriate slot on the trimrail.

5. Pivot the cantilever bracket down until all the teeth are in the slots and the top of the cantilever bracket is approximately horizontal.

6. Push the cantilever bracket down about 1/4" so all the teeth are engaged in the slots.

**NOTE: To remove a cantilever bracket from the trimrail, push the bracket up about 1/4" and rotate the lower rear edge away from the panel to about a 45° angle. Pull the bracket straight out. DO NOT FORCE THE CANTILEVER BRACKET. DAMAGE TO THE TOP SAFETY TOOTH MAY OCCUR IF EXCESSIVE FORCE IS USED.**

7. Repeat the installation for all (3) cantilever brackets.

8. Set the corner bookshelf surface on the cantilever brackets and attach it to the brackets using (2) #12 x 1" screws in each bracket (Figure 3).

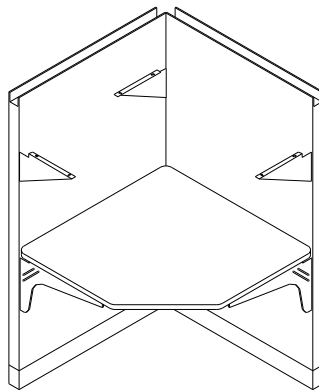


FIG. 1

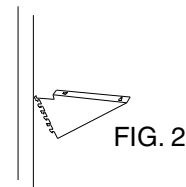


FIG. 2

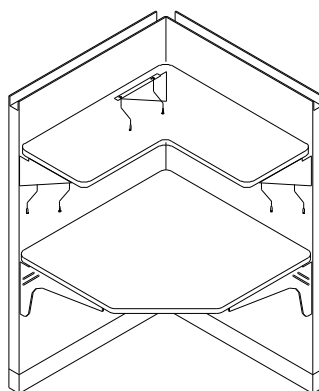


FIG. 3



## Accessories

**PANEL CORD MANAGEMENT** A panel cord management extrusion will accommodate either (1) task light cord and (1) flat telephone cable or (1) CRT coaxial and (1) flat telephone cable.

1. Determine desired location and length of the panel cord management extrusion.
2. Use a utility knife to cut this extrusion to length needed.
3. Press the cord(s) (see above introduction) into the large side of the panel cord management extrusion. Start at one end and slide your finger the full length. (Figure 1).
4. Press the panel cord management extrusion into the slot between the fabric core and the panel trim rail (Figure 2). Press into the slot, starting at the top and working your way down.

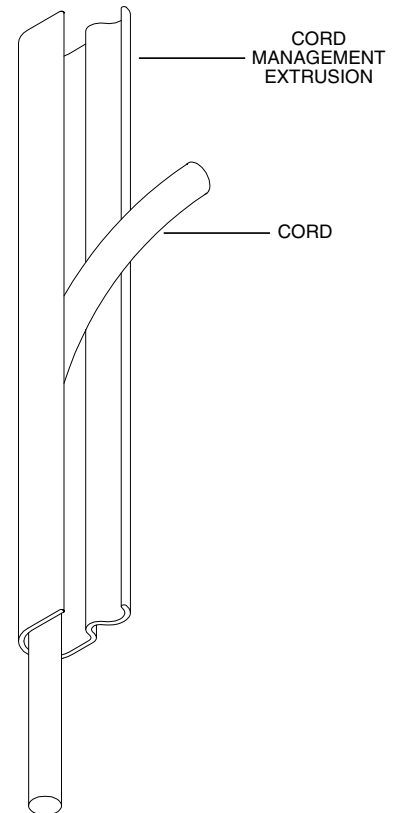


FIG. 1

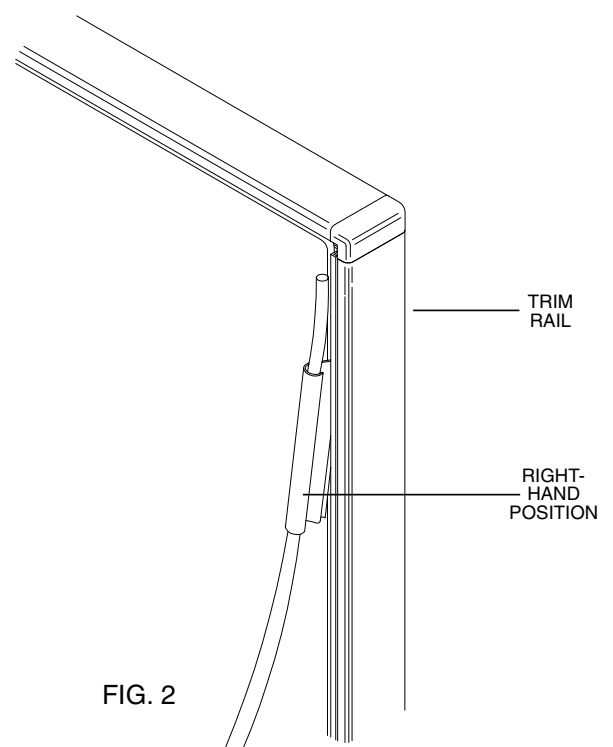


FIG. 2

# Classic XXI

## Accessories

### TACKBOARDS

Depending on the height of the tackboard, one or two mounting brackets per side may be used on your tackboard. The correct number of brackets and hardware are included with each tackboard.

1. The tackboard bracket may be used as either a right or left side bracket by simply turning it around.

2. Sub-assemble each mounting bracket with two screws and T-nuts as shown in (Figure 1). Only turn the screw into the T-nut a turn or two.

3. Set each bracket onto the tackboard as shown in (Figure 2), so both T-nuts fit into the keyhole slots on the tackboard.

4. Slide the brackets to the outside edge of the tackboard keyhole slots.

5. Tighten down the two screws on each bracket enough so the brackets are snug against the surface of the tackboard, but can still slide back and forth.

6. The trimrails on each panel are slotted to accept the tackboard brackets. Decide the height you want your tackboard mounted at, and position it so that the mounting brackets align with the trimrail slots (Figure 3). The easiest method to align the bracket teeth with the slots is to get the teeth on one side in the slot, and then move the tackboard side to side until the teeth on the other bracket align with their slot.

7. Once the brackets are aligned in the slots, the tackboard should drop down about  $\frac{1}{8}$ " when fully seated. Pull out on each side of the tackboard to be sure the brackets are seated.

8. To remove a tackboard from a panel, push straight up on each end of the tackboard about  $\frac{1}{8}$ " to unseat the brackets. Pull the tackboard straight out from the panel. **DO NOT FORCE THE TACKBOARD!** You may have pushed the tackboard up too far and the top of the bracket is catching in the slots.

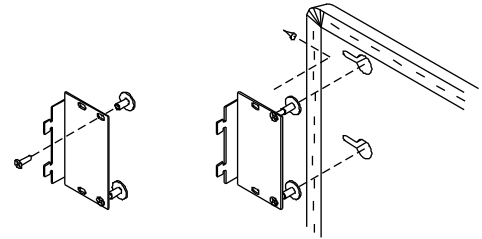


FIG. 1

FIG. 2

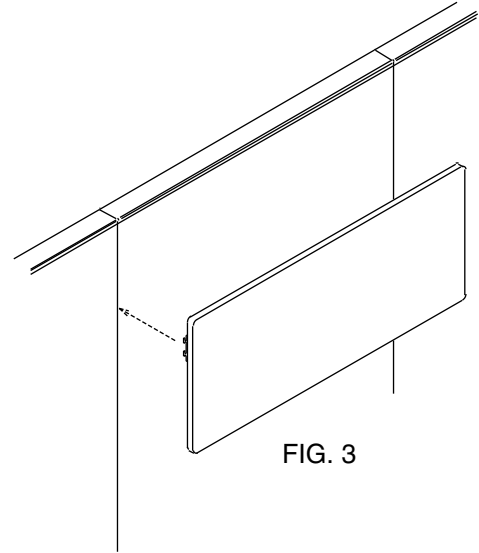


FIG. 3

## Accessories

### TASK LIGHTS

#### Under Shelf Task Lights

The task light is supported by flexible straps on each end and will fit under several different styles of shelves in the product line.

1. Assemble the task light by sliding the flexible straps that are included with the task light through the "belt loops" on each end of the light cabinet. (Figure 1).
2. Install the light under the shelf by fitting the front end of the straps (the end opposite the cord) into the flange along the front edge of the shelf. (Figure 2).
3. Pivot the back end of the task light/straps up as you flex the back end of the straps in towards the middle of the light. Flex the straps in enough so they will clear the flange along the back edge of the shelf.
4. Release the flexed straps so they rest on the rear shelf flange. (Figure 3).
5. Route the cord to either the right or left end of the light and snap the cord into the clip that is attached to the rear surface of the light.

**NOTE: Cord managers are available to conceal the cord as it drops down to the raceway to be plugged in.**

#### Under Counter Task Light

Note: The same task light that is used below shelves of overhead units is also used below countertops. You may discard the two flexible straps that are included with the light.

1. Remove the clear light lens by sliding it towards the front of the tasklight case until the rear edge can be pivoted out of the case.
2. Remove the light bulb from the case by turning the ends until the pins release from the pin holders.
3. Hold the task light up to the bottom side of the countertop so the cord is facing the panel and drive two #14 x  $\frac{3}{4}$  worksurface screws or other appropriate screws through the dimpled holes in the tasklight case, into the predrilled holes in the countertop.

4. Install the light bulb and the clear light lens back into the tasklight case.

5. Route the cord to either the right or left end of the light and snap the cord into the clip that is attached to the rear surface of the light.

**NOTE: Cord managers are available to conceal the cord as it drops down to the raceway to be plugged in.**

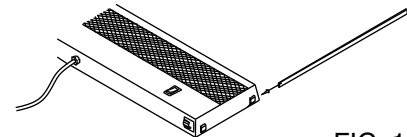


FIG. 1

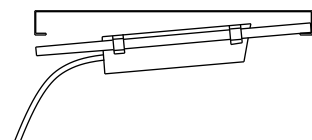


FIG. 2

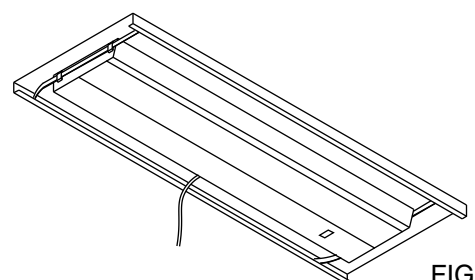


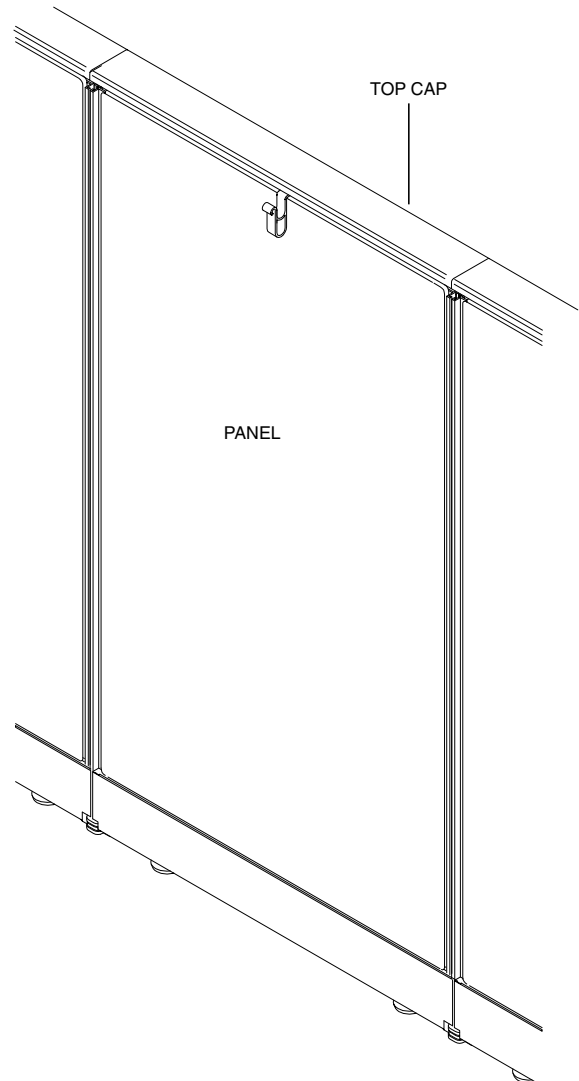
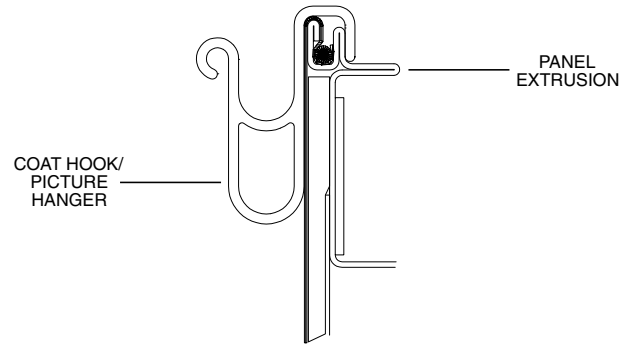
FIG. 3

# Classic XXI

## Accessories

### COAT HOOK/ PICTURE HANGER

1. Remove the plastic top cap, if it has already been installed.
2. Attach coat hook/picture hanger as shown in view "A".
3. Reassemble top cap in its original position.



# Accessories

## WALL TRACK

### Installation Instructions (Backing Required)

#### New Construction Recommendations

- The recommended wall structure must be one of the following:
  - Concrete Wall
  - A  $\frac{3}{8}$ " plywood –  $\frac{1}{4}$ " drywall wall (total  $\frac{5}{8}$ " thick)
  - A drywall wall on which wall mount anchors can be attached directly into wood or metal wall studs.
- When mounting the wall track, use the following methods:
  - Concrete Wall – Use a good quality concrete anchor and install according to the manufacturer's specifications.
  - Plywood Backed Drywall – Use a good quality hollow wall anchor and install according to the manufacturer's specifications (Figure 1).
  - Drywall Utilizing studs:
    - Wood Stud – Drill  $\frac{3}{32}$ " holes 2" deep into studs. Use a #10 x  $2\frac{1}{2}$ " wood screw and tighten securely (Figure 2).

**Note: All anchor holes on wall track should be used regardless of type of wall.**

- Metal Stud – Drill hole through drywall and through stud; use a good quality sheet metal screw through wall track sheet rock and stud.

#### Existing Construction Recommendations

- When mounting the wall track, use the following methods:
  - Concrete Wall – Use a good quality anchor and install according to manufacturer's specifications.
  - Plywood Faced or Horizontal 1 x 3 Furring – Attach additional backer or horizontal furring strips to face of dry wall utilizing studs and proper anchors. Attach wall track to backer by anchoring through backer and drywall with proper anchors or through backer drywall and into stud with anchors. Anchors must be used to manufacturer's specifications.
- It is not recommended to anchor wall track with overhead units directly into drywall with no backer.

- When using wall track to mount any hang-on components, the minimum length of the wall track is 36".

- It is recommended that worksurface auxiliary brackets, or worksurface support panels, be used with all wall track mounted worksurfaces.

#### Wall Track – Spacing

- Spacing from the centerline of the slot on one wall track to the centerline of the next wall track should be  $\frac{11}{16}$ " less than the "named" length of the product you are hanging on the wall track. Example: The slot to slot spacing to hang a 36" long overhead unit would be  $35\frac{5}{16}$ " (36" minus  $\frac{11}{16}$ ").
- If only one hang-on component is being hung on the wall track, the wall track may be spaced so the outside slots are used. (Figure 3).
- If more than one hang-on component is being hung on the wall track (side by side, not up and down) the wall track should be spaced so the adjacent hang-on components share one wall track. (Figure 4).

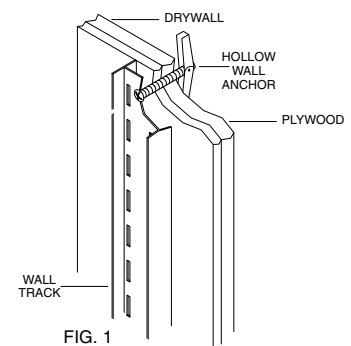


FIG. 1

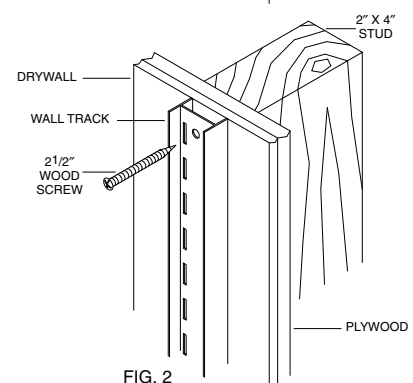


FIG. 2

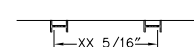


FIG. 3

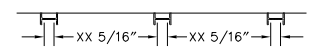


FIG. 4



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