ASSEMBLY INSTRUCTIONS

WiggleRoom® Super Structure

May 2024

KIWALL

Preparation

Super Structure Assembly

Ceiling Assembly

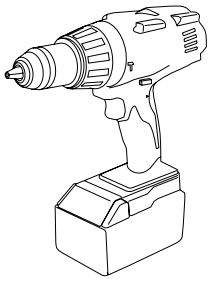
Wall and Door Assembly

Electrical

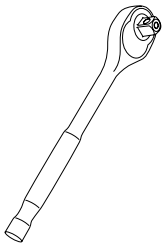
Beam Bolts Tightening and Lid Assembly

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



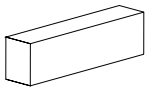
Power Drill



Socket Wrench
(3/8")

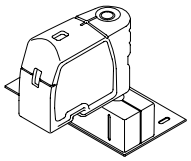
Milwaukee Tool® Cordless 3/8" Ratchet
(Model 2457-20)

Socket
(1/2" & 7/16")

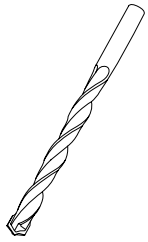


Base Trim Installation Block
("Cheese" Block)

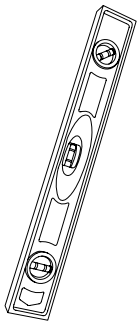
Side Cutters



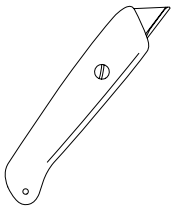
Laser Alignment Tool



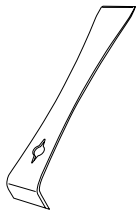
Masonry Drill Bit
(1/4")



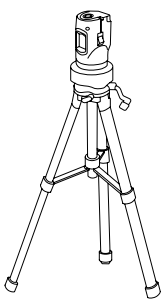
Level
(2', 4', and 6')



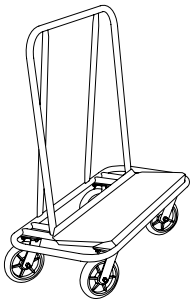
Utility Knife



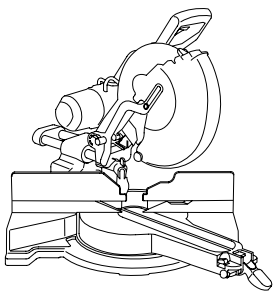
Flat Pry Bar



Laser Alignment Tripod



Padded Drywall Cart



Miter Saw with Non-Ferrous Blade
Note: Cut station must be equipped with stands, tarps, and a shop vac.

Ladder - OSHA approved
Note: Two ladders for every three persons doing install is required.

CAUTION

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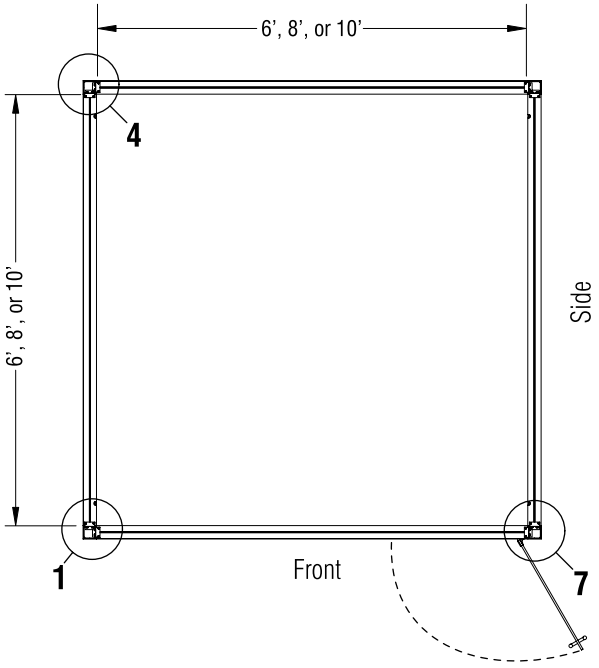
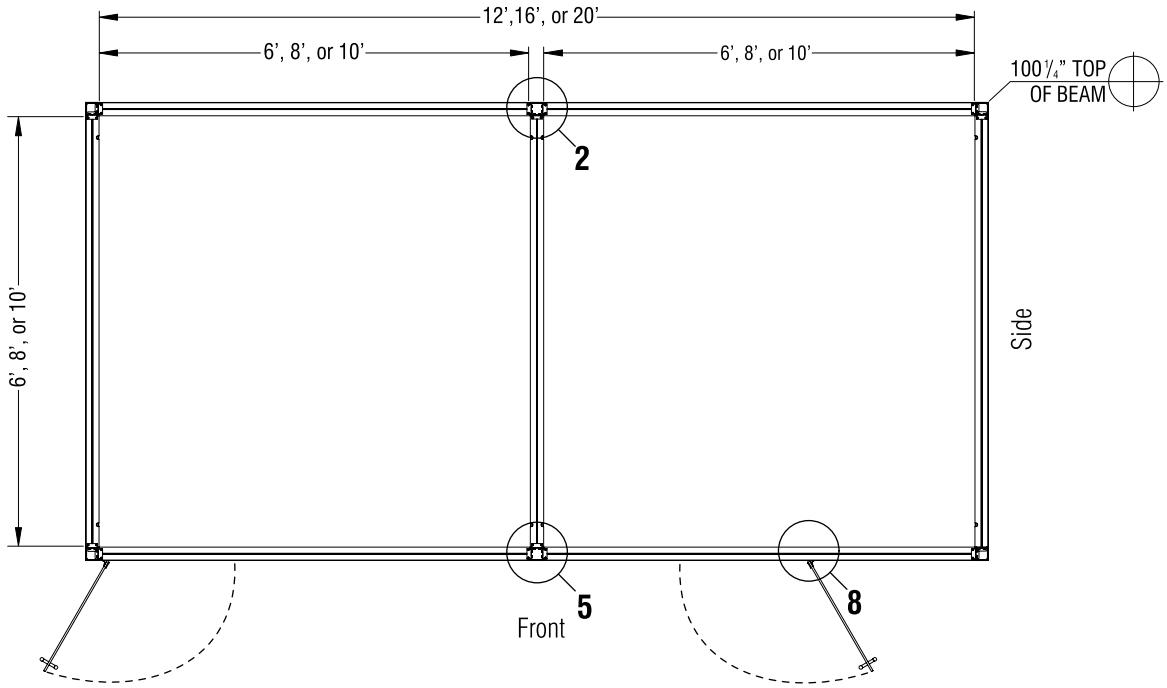
Super Structure Sizes
6' Front x 6' Side
8' Front x 6' Side
8' Front x 8' Side
10' Front x 8' Side
10' Front x 10' Side



WiggleRoom Super Structure with Hinged Doors & Genius/Evoke Panels or Walls



WiggleRoom Super Structure Shared Room with Hinged Doors & Genius/Evoke Panels or Walls

CAUTION

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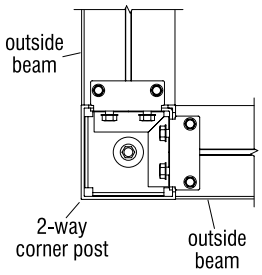
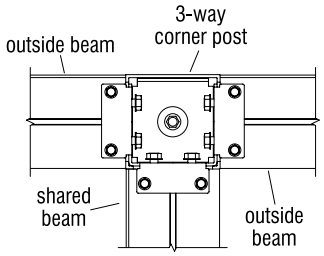


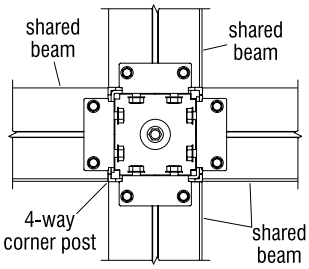
2-Way Corner Post & Outside Beams

1



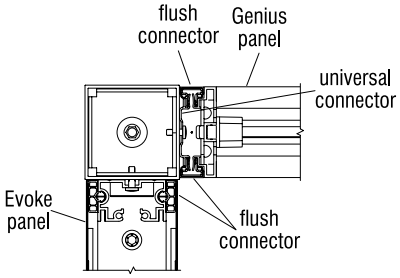
3-Way Corner Post and Outside Beams & Shared Beam

2



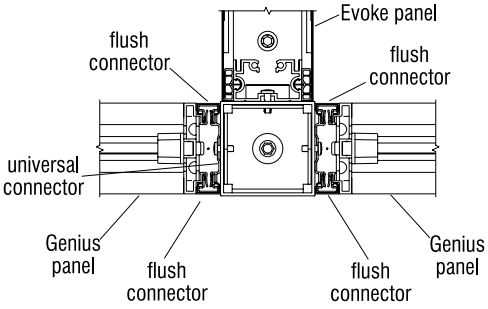
4-Way Corner Post & Shared Beams

3



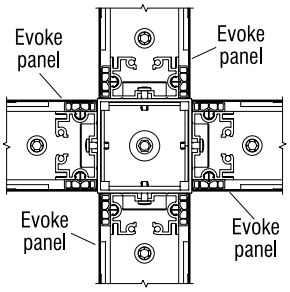
2-Way Corner Post with Evoke & Genius Walls or Panels (beams hidden)

4



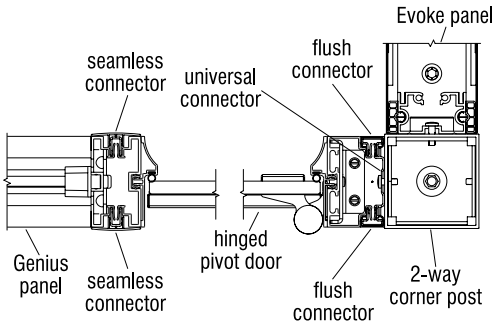
3-Way Corner Post with Genius & Evoke Walls or Panels (beams hidden)

5



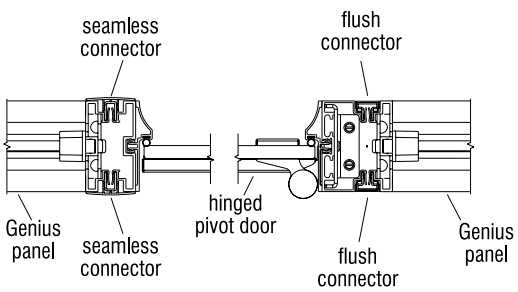
4-Way Corner Post with Evoke Walls or Panels (beams hidden)

6



2-Way Corner Post with Hinged Pivot Door, Genius & Evoke Walls or Panels

7



Inline Hinged Pivot Door, Genius Walls or Panels

8

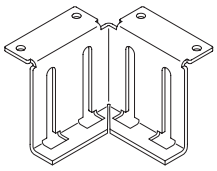
CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

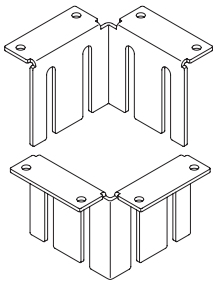
Evoke/Genius Ceiling Rail
(52.7530)

Evoke Floor Channel
(52.2013)

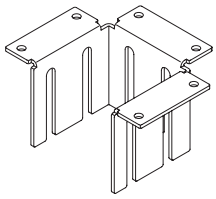
Evoke & Genius Panel Trim
(52.2108)



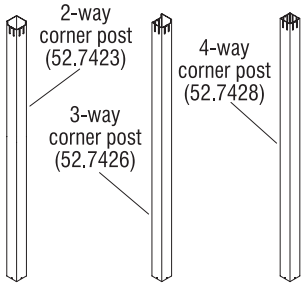
2-Way Corner Post Bracket
(single & shared room)
(52.7524)



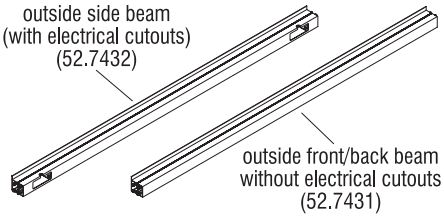
4-Way Corner Post Brackets
(qty. 2 for shared room)
(52.7425)



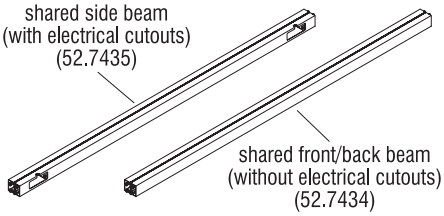
3-Way Corner Post Bracket
(shared room)
(52.7430)



2-Way/3-Way/4-Way Corner Posts
(52.7423/52.7426/52.7428)



Outside Beams
(with & without electrical cutouts)
(52.7432/52.7431)



Shared Beams
(with & without electrical cutouts)
(52.7435/52.7434)

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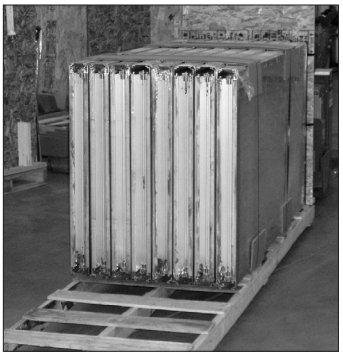


Unloading

Warning: Shipping skids are designed to be moved with a pallet jack or slid along the floor using a fork lift. If no dock is available to remove the skid at grade from the bed of the trailer, the panels must be unloaded by hand one at a time. FAILURE TO COMPLY MAY RESULT IN DAMAGED PRODUCTS AND/OR INJURY.

Single Room Units

Each WiggleRoom Super Structure single room unit is packaged and crated per a unique order number. This process ensures that all components for the room can easily be identified and staged once product is delivered to site. Single room units can ship on two or three skids. All product on the skid is labeled with an identification sticker corresponding to its own unique order number. If a project has multiple single room units, each room unit will be on its own order. For example, if a project as three single room units, there will be three unique order numbers. This will ensure that all product on a skid or in a crate pertains to only one room unit. Product will not be mixed on skids or crates for single standalone room units.

Shared Room Units

Multiple room units that share walls will be crated on multiple skids. Product will be tagged accordingly for the location on the KI Installation Plan.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Super Structure Planning Layouts

Single Room Units

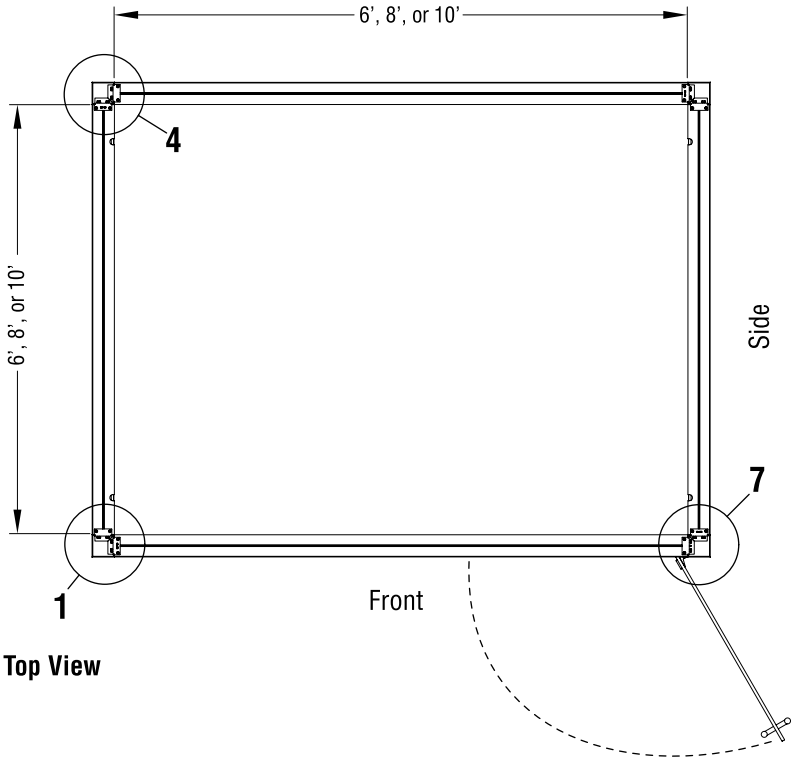
Single Room Units that are specified using the KI See-It-Spec-It online configuration tool will include a PDF of the KI quote drawing. This quote drawing will be sent to the customer when the product is shipped. Please contact KI customer service if the quote drawing was not received. The quote drawing will depict locations of the wall panels, door, and ceiling components. Single room units which are specified with product modification requests, such as modified panels and/or door configurations will include a KI Installation Plan (shop print). The installer must confirm with the customer where the final location of the WiggleRoom unit will be within the building. The KI quote drawing received at the time of order will not include dimensions that place the location of the WiggleRoom unit at the installation site.

Shared Room Units

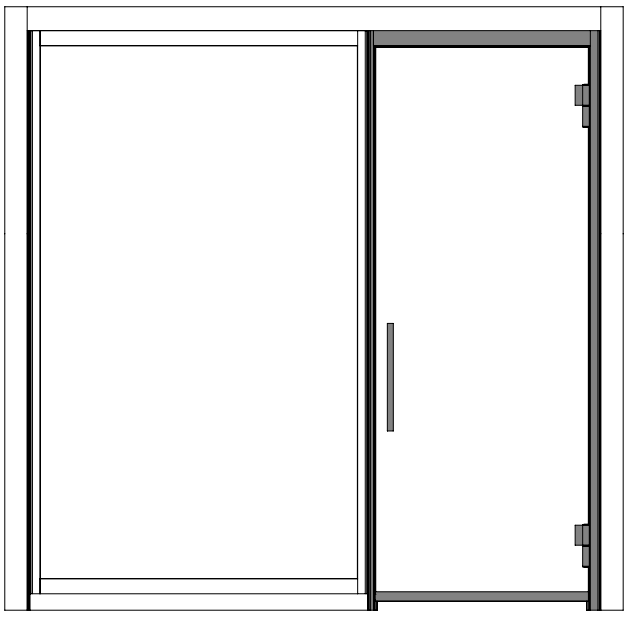
Multiple room layouts that share walls will include a KI Installation Plan (shop print), complete with a plan view, elevation views and details regarding correct configuration of parts to create the layout. The KI Installation Plan will also include a floor height survey, as it is critical to know and work in reference to high or low spots on the floor of each individual shared room super structure unit installation.

Final KI Installation Plan (shop print) includes information about the dimensions and other details of each installation. The “Legends”, “Bill of Materials”, “Elevations”, “Details” and other job information should be completely reviewed before beginning any installation. It is most important that you understand whether dimensions are centerline to centerline, inside and inside, or other special reference points. If any questions arise, please contact KI for additional information.

It is important to check all final KI Installation Plan dimensions against the field dimensions to verify that all panels will fit correctly. It is also recommended that the entire floor plan be laid out and marked first, before any hoops are assembled, or any ceiling rails are installed.



Top View



Front Elevation

CAUTION

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Single Room Frames - Posts Layout

Important: Carefully follow the KI quote drawing or KI Installation Plan (shop print) if modified product, and properly layout post mounting locations onto the floor at the final installation location.

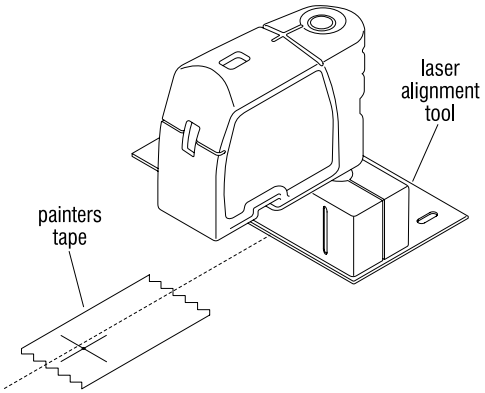

Figure 1

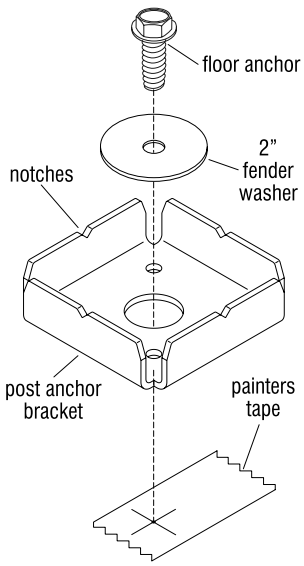

Figure 2

1. Following the KI quote drawing (or shop print if modified product), and using a laser alignment tool, painter's tape and a marker, mark square crosses on tape to correctly layout the center points of all post locations onto the floor for the super structure unit being installed. If seismic location post anchor brackets are to be installed (step 2 below), it is recommended to snap chalk lines between center marks (Figure 1).

   Important: If installing super structure in a seismic location, post anchor brackets must be used. Floor type at the installation location of each super structure post anchor bracket determines specific anchor specifications to be followed. See pages 10 & 11. Follow step 2 below. If not installing in a seismic location, continue now to top of page 12.

   Note: The post anchor bracket is only required in seismic design categories C through F. The bracket is not required in seismic design categories A through B.

2. At seismic location installations, post anchor brackets must be installed to the floor, for use at the base of the posts. See pages 10 and 11 for specifications pertaining to installation site floor type. Bore the appropriate anchor hole into the floor, as specified for the site floor type, with the post anchor bracket directly on-center to the cross on the painter's tape as was laid out in step 1 above, for all post locations. Position the post anchor bracket square to the structure layout and install to the floor using the appropriate hardware. Notches in the post anchor bracket aid to align the bracket square with chalk lines snapped on the floor. Secure tight to the floor and assure that the bracket is square to the layout (Figure 2).

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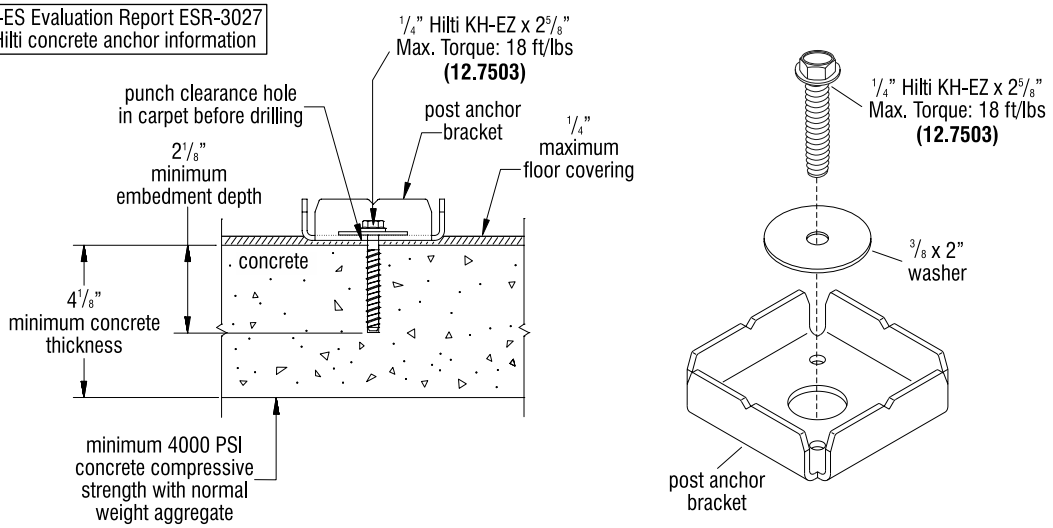
Note: See ICC-ES Evaluation Report ESR-3027 for additional Hilti concrete anchor information



Detail A - Super Structure Post - Concrete Floor Anchor Specifications

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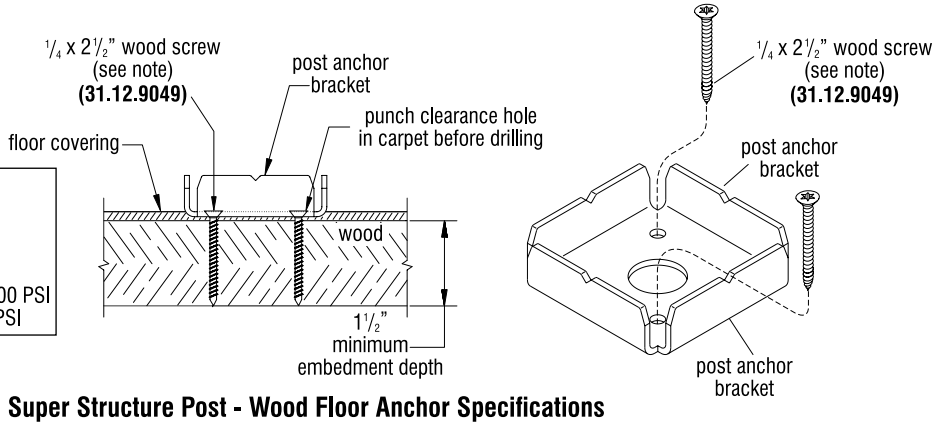
Wood Blocking: Assumed to be spruce-pine-fir.

Minimum Specific Gravity: .42

Wood Screw: 1/4" x 1 1/2" minimum embedment. For length of screw, anchor bracket thickness and any floor covering on top of 1 1/2" embedment requirement must be accounted for.

Screw Minimum Ultimate Tensile Strength = 74,000 PSI
Screw Minimum Tensile Yield Strength = 57,000 PSI



Detail B - Super Structure Post - Wood Floor Anchor Specifications

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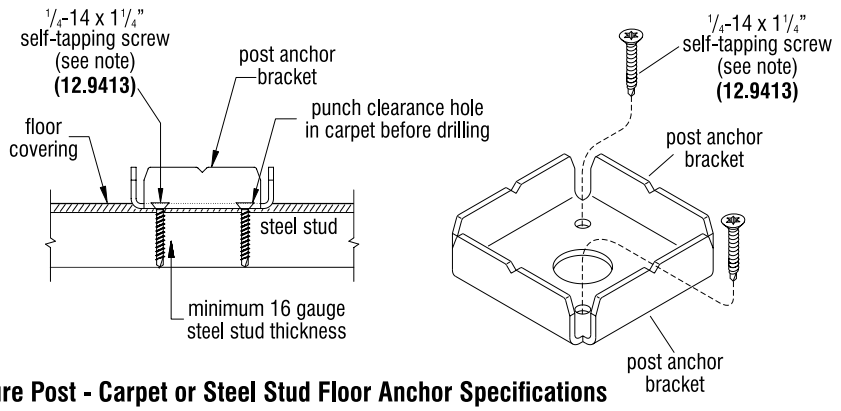
Steel Stud: 16 Gauge

Stud Minimum Ultimate Tensile Strength = 45,000 PSI
Stud Minimum Tensile Yield Strength = 33,000 PSI

Metal Screw: 1/4-14 x 1 1/4" self-tapping screw must be Grade 2 or better and must be able to go through 16 gauge steel stud thickness. For length of screw, anchor bracket thickness and any floor covering on top of 16 gauge thickness must be accounted for.

Screw Minimum Ultimate Tensile Strength = 74,000 PSI
Screw Minimum Tensile Yield Strength = 57,000 PSI



Detail C - Super Structure Post - Carpet or Steel Stud Floor Anchor Specifications

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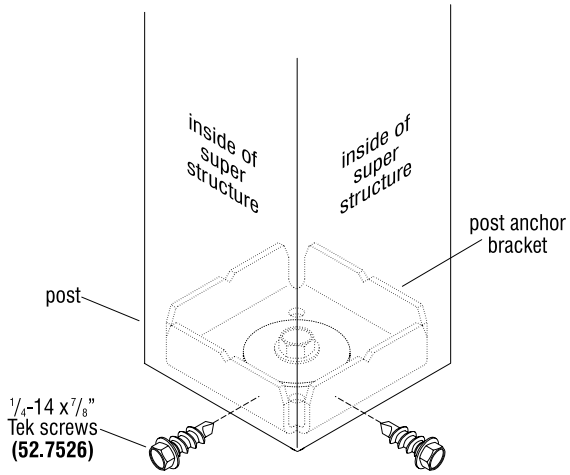
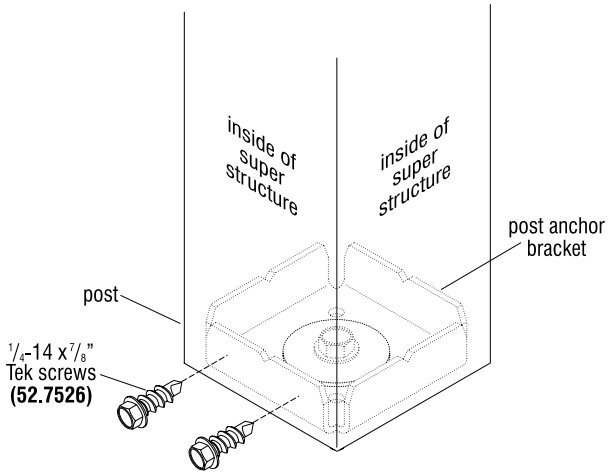


Detail D - Super Structure Post to Anchor - Two Screws Perpendicular to Each Other (option #1)



Detail E - Super Structure Post to Anchor - Two Screws on Same Side (option #2)

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Single Room Frames - Posts Layout (cont.)

3. **Important:** It is important to follow the KI quote drawing (or shop print if modified product) to properly position the correct 2-way corner post type at its designated mounting location on the floor for measuring to cut. Take care that the correct post type is positioned, measured and cut accurately for the correct post location marked on the floor, per KI quote drawing (or shop print if modified product). It is recommended to label a number or letter both the tape on the floor, and the post associated with that location to assure that posts and locations do not get mixed up.

4. To accurately determine and cut the 2-way corner post heights to accommodate for floor height variances, a laser alignment tool must be set up on a tripod. Per KI quote drawing (or shop print if modified product), place the laser alignment tripod into the doorway of the super structure being assembled, then set the laser line at 100¼" from the floor. (Figure 3).

   Note: The door does not have any height adjustment, so the 2-way corner post heights (at 100¼") will be cut from the laser line derived from each super structure doorway location. If any additional super structure rooms are being constructed, the laser level tripod must be re-located for use in measuring at the appropriate doorway location for the different super structure unit being installed.

5. Reference KI quote drawing (or shop print if modified product) to determine the correct location for the 2-way corner post to be positioned at the specific layout marks on the floor, for cutting to the correct height. With a laser alignment tool on a tripod and in proper position for use, turn up one post at a time to be upside-down and perfectly plumb as illustrated, and centered directly over the marked location on the floor (Figure 4 & Detail A).

   Note: Make sure that the post is positioned upside-down for laser and marking, as the bottom of the post will be marked and cut to size correctly to accommodate floor variance.

6. Holding the 2-way corner post exactly centered on the mark for future post location, on the floor and upside down (top-of-post notches face down), use a level to make sure the post is plumb. Assure the laser level is set at 100¼" off the floor in the doorway and mark the location where the laser line hits the bottom of the post (Figure 4 & Detail A).

7. Use a miter saw to cut off the bottom of the 2-way corner post at the marked location as determined by the laser level in step 6 above. Repeat steps 5, 6 and 7 for all 2-way corner posts of the super structure being assembled, then stage all cut-to-size posts at their appropriate mounting location, as marked on posts and on the floor for assembly into "hoops", next page.

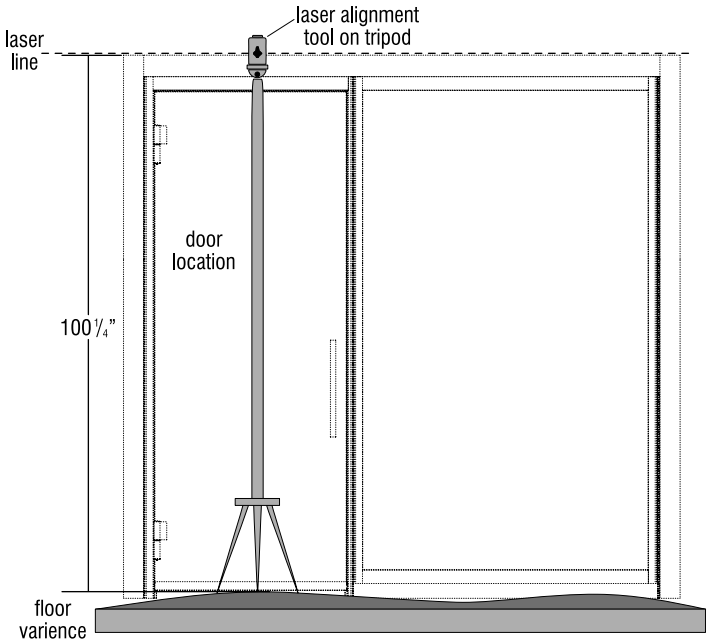


Figure 3

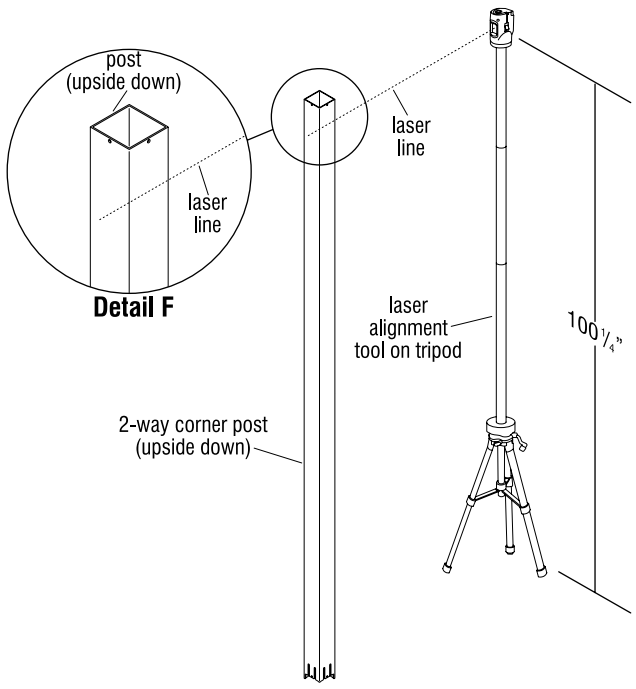


Figure 4

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Single Room Frame – Hoops Assembly

Note: Refer to the KI quote drawing (or shop print if modified product) and assure that the correct cut-to-size 2-way corner post is positioned at the proper marked floor location, and per instructions on pages 9 through 12.

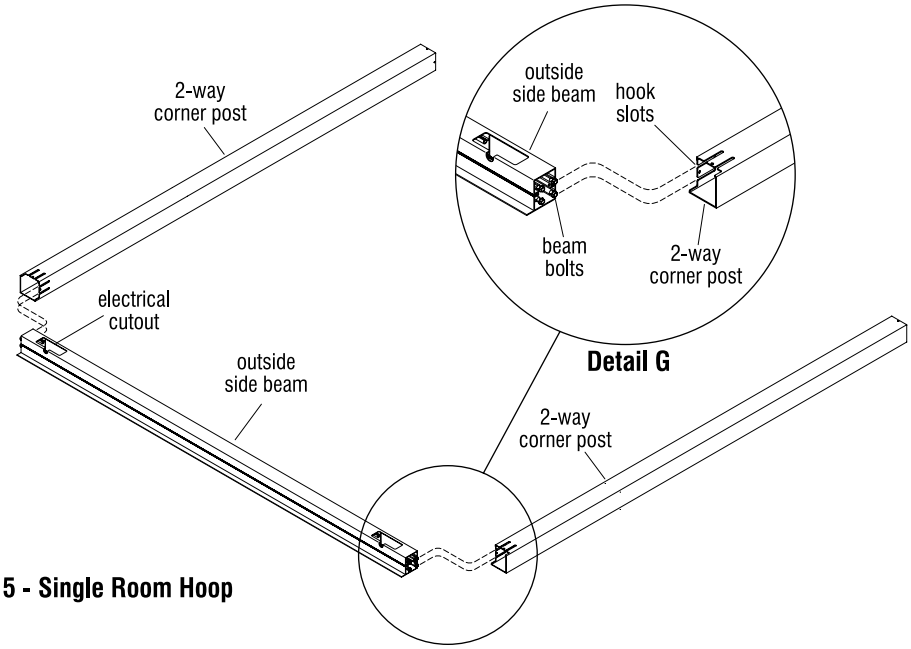


Figure 5 - Single Room Hoop

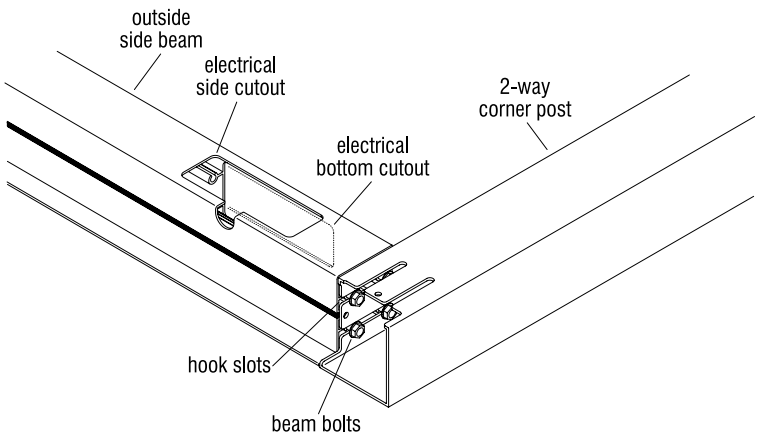


Figure 6 - Single Room Hoop

8. Single room super structure unit "hoops" will consist of two, 2-way corner posts bridged by an outside side beam. The outside side beam can be identified by the electrical cut-outs near the ends if panels are equipped with electrical. If no panels have electrical, the outside side beam will not have electrical cutouts. Reference KI quote drawing (or shop print if modified product) and locate the correct outside beam for the super structure section being assembled (Figure 5).

9. With the 2-way corner posts cut to the correct length, and the appropriate outside side beams located and identified per the previous steps, lay the corner posts and beam down, taking care to not damage or scratch them. Position the posts and outside side beams down with the outer sides face down, as illustrated to nest together. The outside side beam larger flange must face against the floor, and the electrical cut-outs (if applicable) should face up, or inward to the unit when installed (Figure 5 & Detail G).

10. Beams are shipped with four factory installed bolts inside the ends, which are intentionally left backed-out ½" to help with nesting the bolts of the beam into the slots of the posts. Assemble outside side beam to each of the two corner posts as illustrated to form a "hoop", but do not tighten the bolts at this time (Figures 5, 6 & Detail G).

11. Repeat the steps above to assemble the second beam to corner posts "hoop" assembly, required for the super structure (Figures 5 & 6)

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Single Room Frame – Hoops Assembly (cont.)

12. Using two or more people, carefully stand two "hoop" assemblies up so that front/back beams can be attached in the next step to connect the hoops at the top. If equipped, the electrical cut-outs at the top of each hoop assembly post should face each other, and the hoop assemblies must be standing on their final installation location marks on the floor (Figure 7).

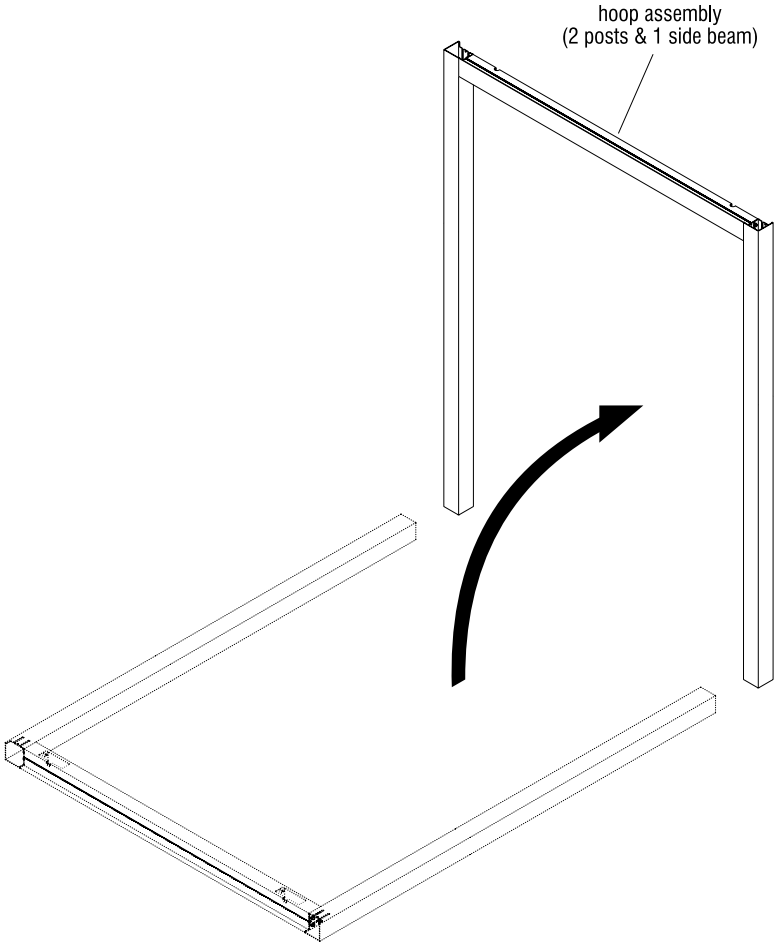


Figure 7 - Single Room Hoop

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

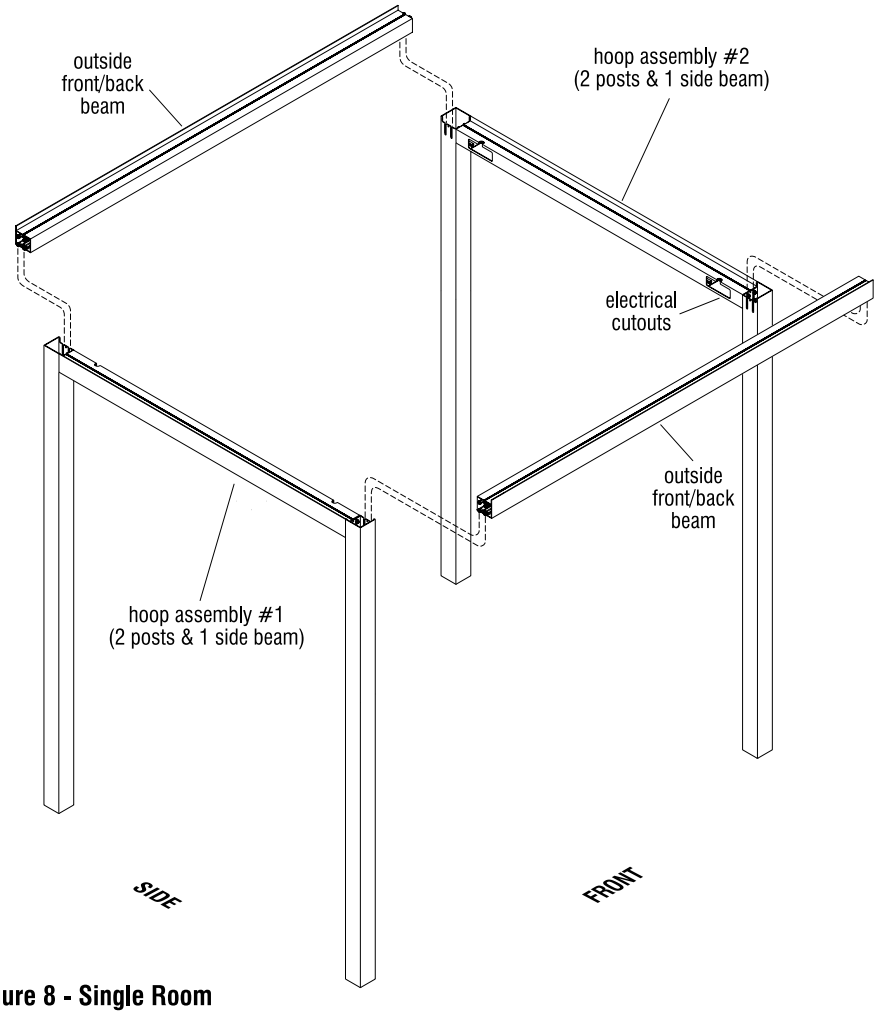
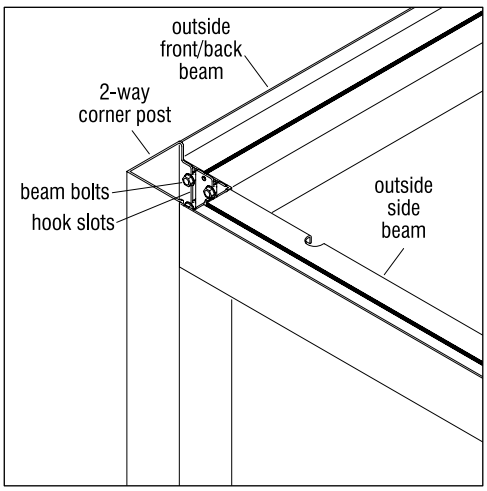


Figure 8 - Single Room



Detail H - Single Room

Single Room Frame - Hoops & Beams

13. With the two hoop assemblies stood up, and the posts centered on their final installation marks on the floor, assure also that the beam electrical cutouts face each other, as do the upper post hook slots face each other between hoops to receive an outside front/back beam between them (Figure 8).

14. Position an outside front/back beam above the end posts of each hoop assembly and lower the beam between them at the tops, sliding the beam bolts fully into hook slots on both posts. Do not tighten bolts at this time (Figures 8 & Detail H).

15. Next, install the second outside front/back beam between the hoops at the top using the same steps above (Figure 8).

    Note: Be sure to leave beam bolts slightly loose to make panel installation easier.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Single Room Frame – Corner Post Brackets

Note: 2-way corner posts all require a 2-way corner post bracket to be installed.

16. Once beams are in place and the structure is standing on its own, the top corner post brackets must be installed by first placing a top corner bracket into the open top section of the posts and sliding the hook slots of the bracket onto the beam bolts (Figure 9).

17. The beam bolts should not be tightened at this time, to help with panel installation in later steps (Figure 9).

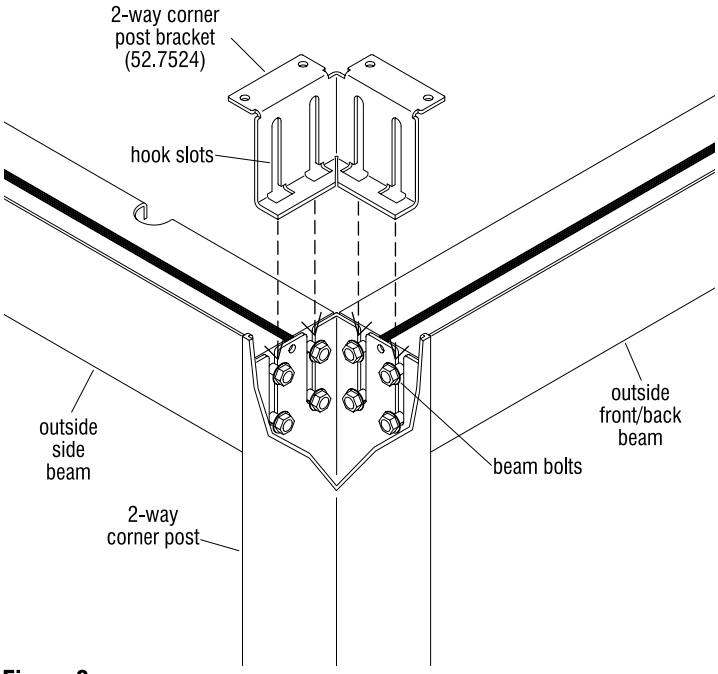


Figure 9

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Shared Room Frames - Posts Layout

Important: Carefully follow the KI Installation Plan (shop print) and properly layout post mounting locations onto the floor at the final installation location.

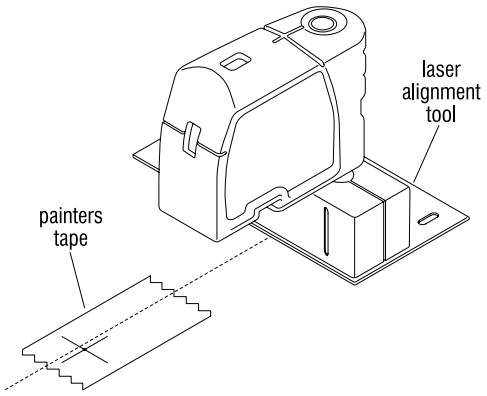


Figure 1

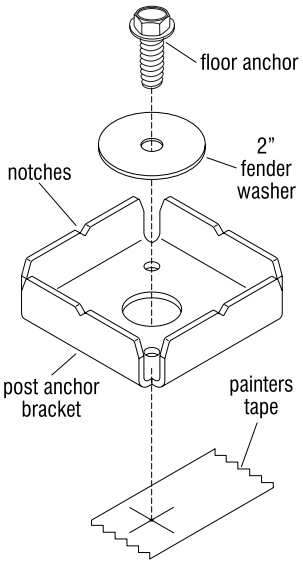


Figure 2

1. Following the KI Installation Plan (shop print), and using a laser alignment tool, painter's tape and a marker, mark square crosses on tape to correctly layout the center points of all post locations onto the floor for the super structure unit being installed. If seismic location post anchor brackets are to be installed (step 2 below), it is recommended to snap chalk lines between center marks (Figure 1).

   Important: If installing super structure in a seismic location, post anchor brackets must be used. Floor type at the installation location of each super structure post anchor bracket determines specific anchor specifications to be followed. See pages 10 & 11. Follow step 2 below. If not installing in a seismic location, continue now to top of page 18.

   Note: The post anchor bracket is only required in seismic design categories C through F. The bracket is not required in seismic design categories A through B.

2. At seismic location installations, post anchor brackets must be installed to the floor, for use at the base of the posts. See pages 10 and 11 for specifications pertaining to installation site floor type. Bore the appropriate anchor hole into the floor, as specified for the site floor type, with the post anchor bracket directly on-center to the cross on the painter's tape as was laid out in step 1 above, for all post locations. Position the post anchor bracket square to the structure layout and install to the floor using the appropriate hardware. Notches in the post anchor bracket aid to align the bracket square with chalk lines snapped on the floor. Secure tight to the floor and assure that the bracket is square to the layout (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Shared Room Frames - Posts Layout (cont.)

3. **Important:** It is important to follow the KI Installation Plan (shop print) to properly position the correct post type at its designated specific mounting location on the floor for measuring to be cut. The shop print for shared rooms will have a starting point indicated with the symbol shown in Detail A. This location is the starting point for the shared room configuration and where the laser should be placed. Failure to start at this point will result in improper fitment of panels and doors in the rest of the layout.

   Note: Post types can be 2-way, 3-way or 4-way, depending on which configuration of shared room super structure unit is being assembled. Take care that the correct post type is positioned, measured and cut accurately for the correct post location marked on the floor, per the shop print. It is recommended to label a number or letter both the tape on the floor, and the post associated with that location to assure that posts and locations do not get mixed up.

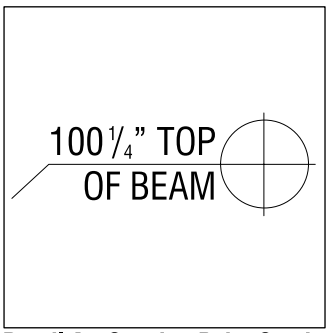
4. To accurately determine and cut all post heights for one shared room configuration, and to accommodate for floor height variances, a laser alignment tool must first be set up on a tripod and positioned at the starting point as specified by the shop print (Detail A). Place the properly set up tripod with laser level in the specified doorway and set the laser line at 100¼" from the floor (Figure 3 & Detail A).

   Note: The door does not have any adjustment, so the post heights (at 100¼") will be cut from the laser line derived from the starting location. If any additional shared super structure rooms are being constructed elsewhere, the laser level tripod must be re-located at the starting location indicated on the shop print for those groupings of rooms.

5. Reference the shop print to determine the correct location for the posts to be positioned at the specific layout marks on the floor, for cutting to the correct height. With a laser alignment tool on a tripod and in proper position for use, turn up one post at a time to be upside-down and perfectly plumb as illustrated, and centered directly over the marked location on the floor (Figure 4 & Detail B).

   Note: Make sure that the post is positioned upside-down for laser and marking, as the bottom of the post will be marked and cut to size correctly to accommodate floor variance.

6. Holding the post exactly centered on the mark for future post location, on the floor and upside down (top-of-post notches face down), use a level to make sure the post is plumb. Assure the laser level is set at 100¼" off the floor in the doorway and mark the location where the laser line hits the bottom of the post (Figure 4 & Detail B).



Detail A - Starting Point Symbol

7. Use a miter saw to cut off the bottom of the post at the marked location as determined by the laser level in step 6 above. Repeat steps 5, 6 and 7 for all posts of the shared super structure being assembled, then stage all cut-to-size posts at their appropriate mounting location, as marked on posts and on the floor for assembly into "hoops", next page.

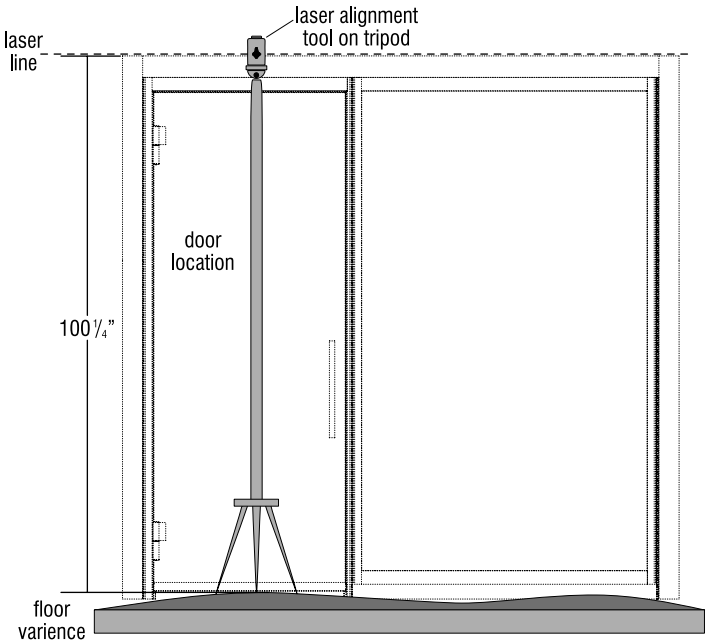


Figure 3

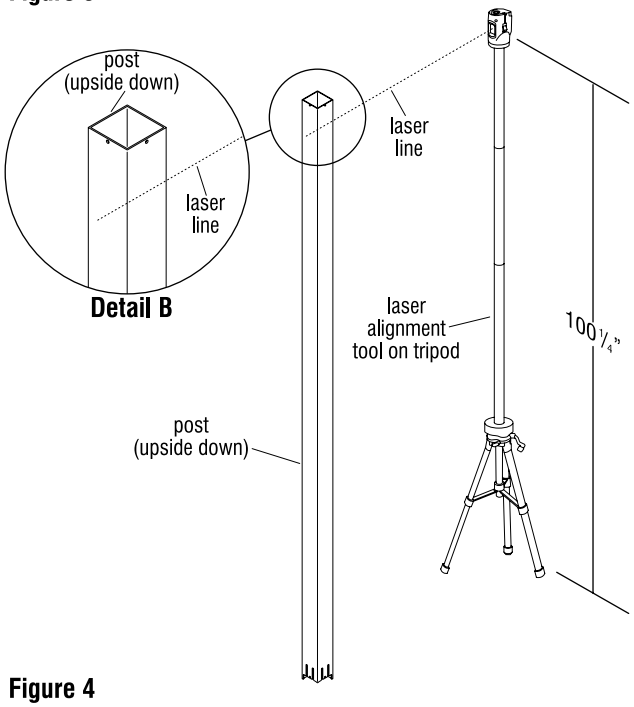


Figure 4

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Shared Room Frame – Hoops Assembly

Note: Refer to the KI Installation Plan (shop print) and assure that the correct cut-to-size post is positioned at the proper marked floor location, and per instructions on pages 17 & 18.

8. Shared room super structures consist of multiple rooms joined together. A single room will need to be built first as a starting point before additional rooms can be added on. This first room will have two "hoops". Each hoop will consist of two corner posts and a beam. The posts may be a 2-Way, 3-Way or 4-Way corner post style. The beams may be either an outside side beam, or a shared side beam. The shop print, along with the previously cut posts at location will confirm what beam styles will be used for the creation of the first room. The posts are then bridged by either an outside side beam or a shared side beam. The side beam can be identified by the electrical cut-outs near the ends. Reference the shop print and locate the correct side beams for the first room of the shared super structure being assembled (Figure 5).

9. With the corner posts cut to correct length, and the appropriate side beams located and identified per the previous steps, lay the corner posts and beam down, taking care to not damage or scratch them. Position the posts and side beams down with the outer sides face down, as illustrated to nest together. The outside side beam larger flange must face against the floor, or if using a shared beam, the non electrical cutout side should face against the floor. The electrical cut-outs should then face up, or inward to the unit when installed (Figure 6).

10. Beams are shipped with four factory installed bolts inside the ends, which are intentionally left backed-out ½" to help with nesting the bolts of the beam into the slots of the corner posts. Assemble side beam to each of the two posts as illustrated to form a "hoop", but do not tighten the bolts at this time (Figures 5 & 6, Detail B).

11. Repeat the steps above to assemble the second beam to corner posts "hoop" assembly, required for the first room of the shared room super structure (Figures 5 & 6).

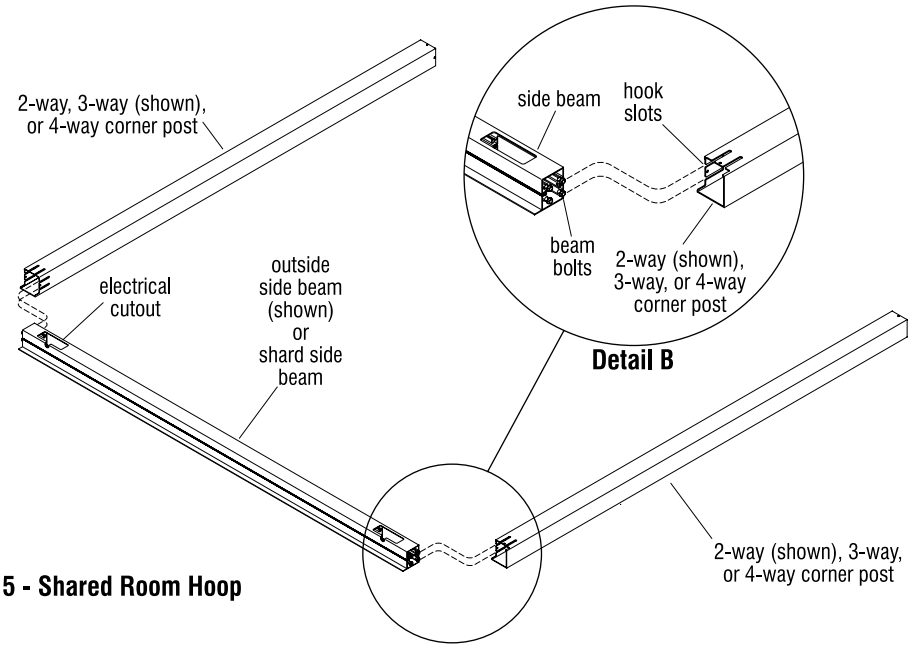


Figure 5 - Shared Room Hoop

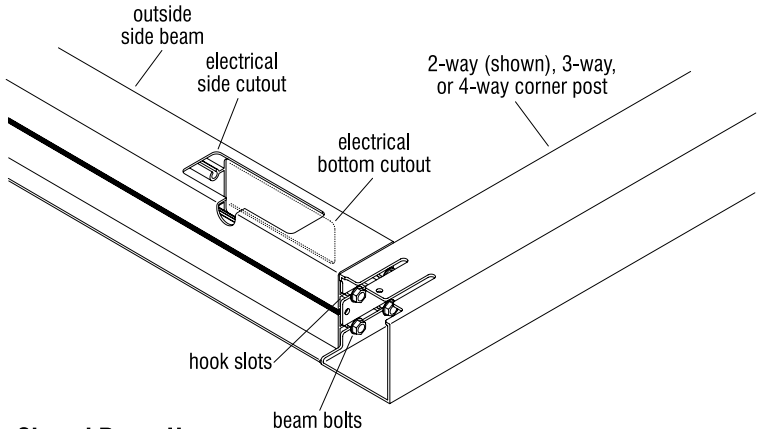


Figure 6 - Shared Room Hoop

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Shared Room Frame – Hoops Assembly (cont.)

12. Using two or more people, carefully stand two "hoop" assemblies up so that front/back beams can be attached in the next step to connect the hoops at the top. The electrical cutouts at the top of each hoop assembly post should face each other, and the hoop assemblies must be standing on their final installation location marks on the floor (Figure 7).

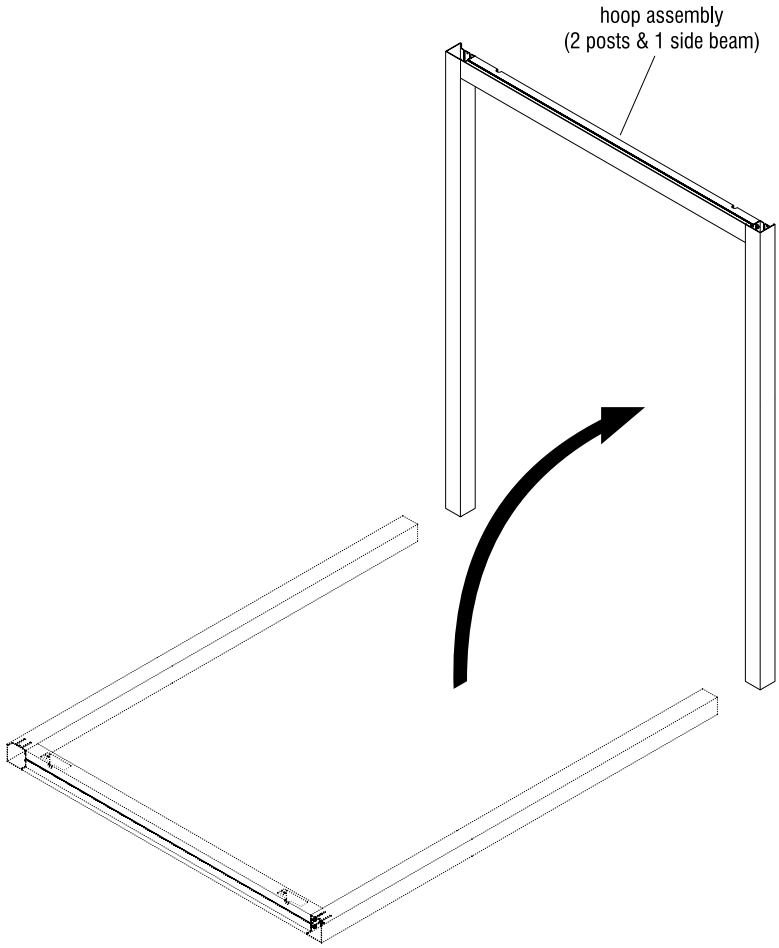


Figure 7 - Shared Room Hoop

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

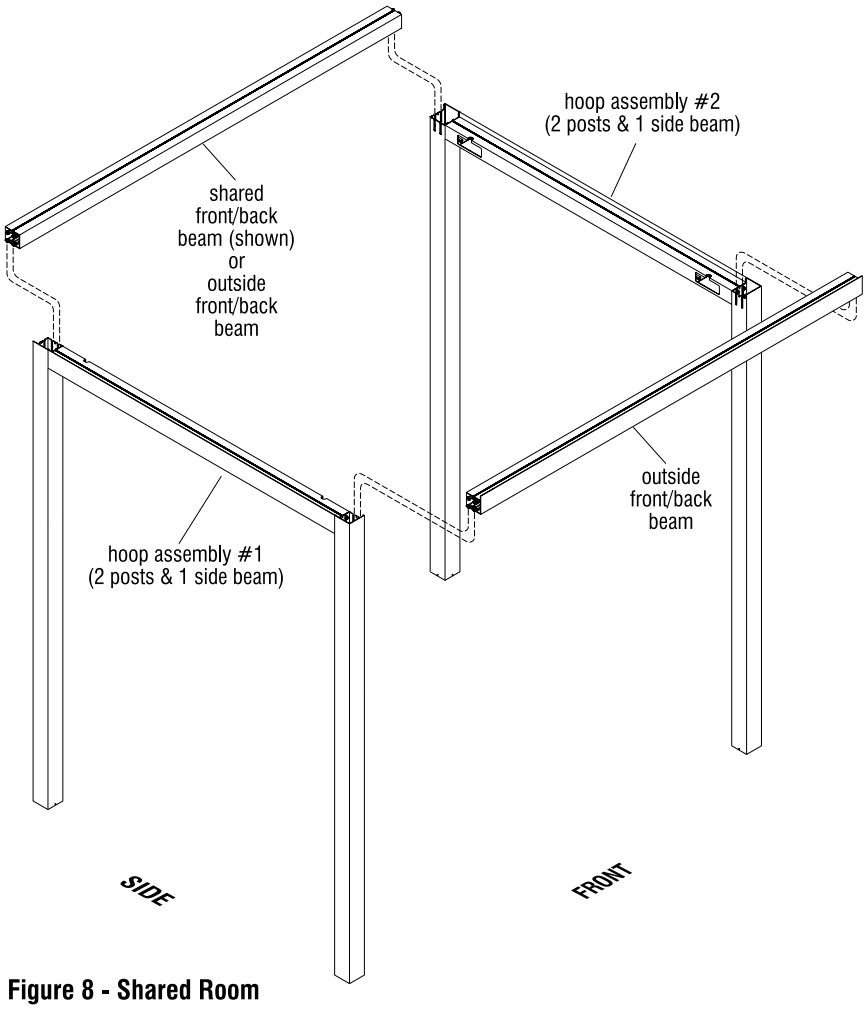
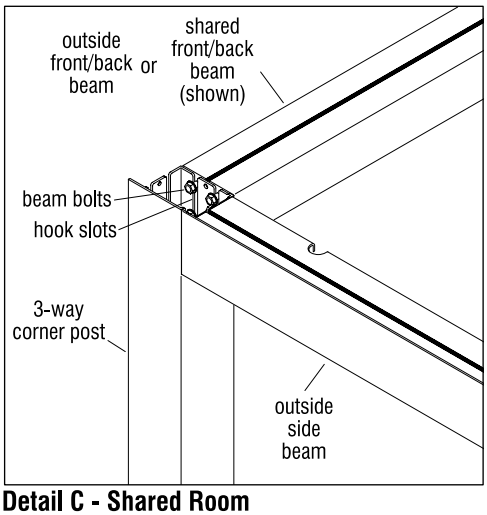


Figure 8 - Shared Room



Detail C - Shared Room

Shared Room Frame - Hoops & Beams

13. With the two hoop assemblies stood up, and the posts centered on their final installation marks on the floor, assure also that the beam electrical cutouts face each other, as do the upper post hook slots face each other between hoops to receive a shared, or an outside front/back beam between them (Figure 8).

14. Next, per the KI Installation Plan (shop print), position an outside front/back beam above the end posts of each hoop assembly and lower the beam between them at the tops, sliding the beam bolts into hook slots on both posts. Do not tighten bolts at this time. This will be for the front of the room where the door installs (Figure 8 & Detail C).

15. Next, per the shop print, install the shared front/back or outside front/back beam between the hoops at the top using the same steps above (Figure 8).

    Note: Be sure to leave beam bolts slightly loose to make panel installation easier.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Shared Room Frame - Hoops & Beams (cont.)

Note: Refer to the KI Installation Plan (shop print) and assure that the correct cut-to-size posts are positioned at the proper marked floor location, and per instructions on pages 17 & 18.

Note: Make sure the laser is still located at the starting location, as outlined on page 18.

16. To add a room, use two people and stand the next room's posts up in their final location to create the next room (Figure 9).

17. Using the shop print as reference, determine where the side beams are located. Then, position the beams above the posts of the finished room and the posts that were stood up in the previous step and lower the beams between the room and the new posts. Slide the beam bolts into hook slots on the posts, but do not tighten bolts at this time (Figure 9).

18. Next, add on the appropriate front/back beam to complete the room. Continue adding on posts and beams via the shop print to create the additional rooms that are part of the shared room layout (Figure 9).

    Note: Be sure to leave beam bolts slightly loose to make panel installation easier.

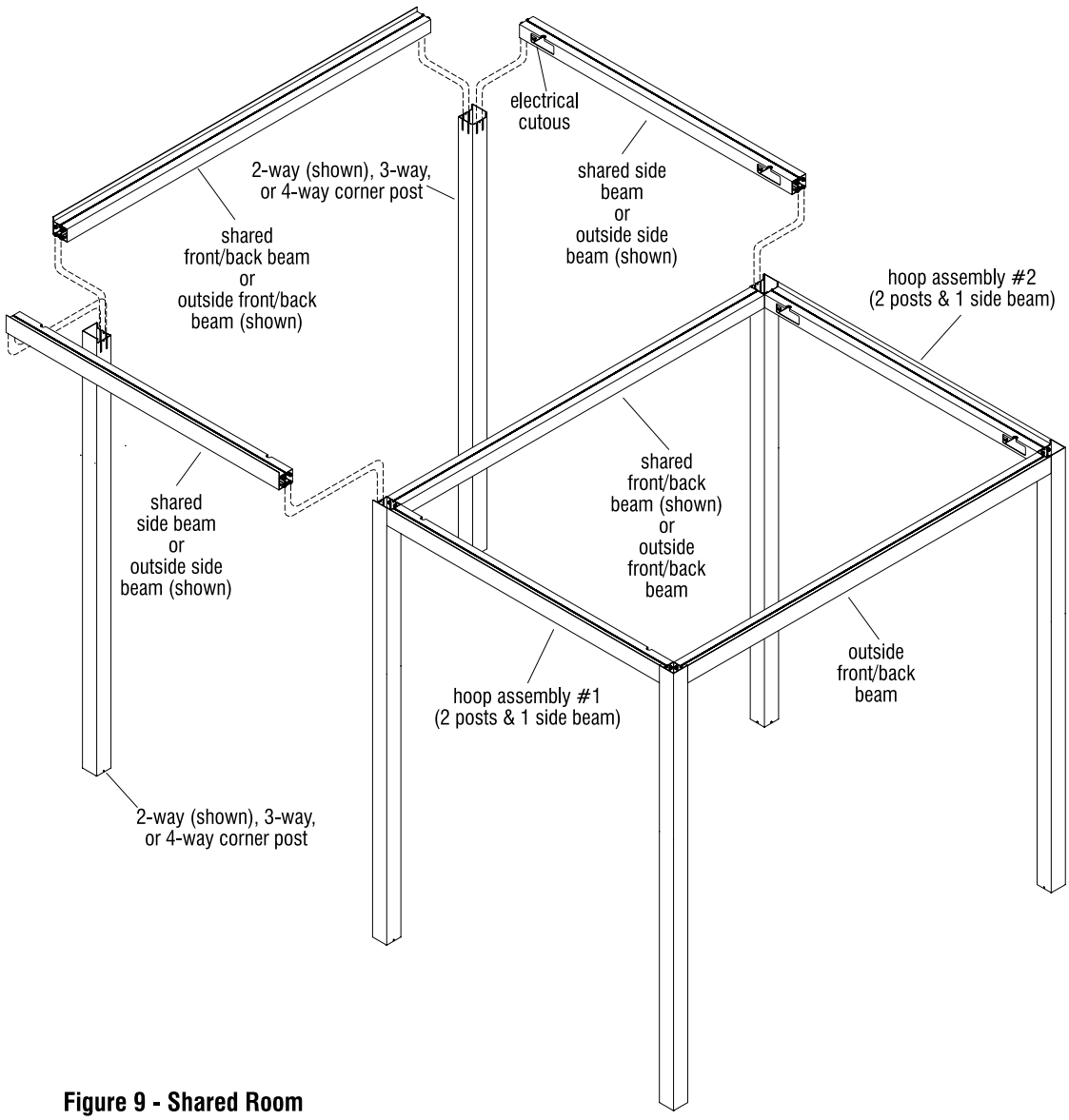
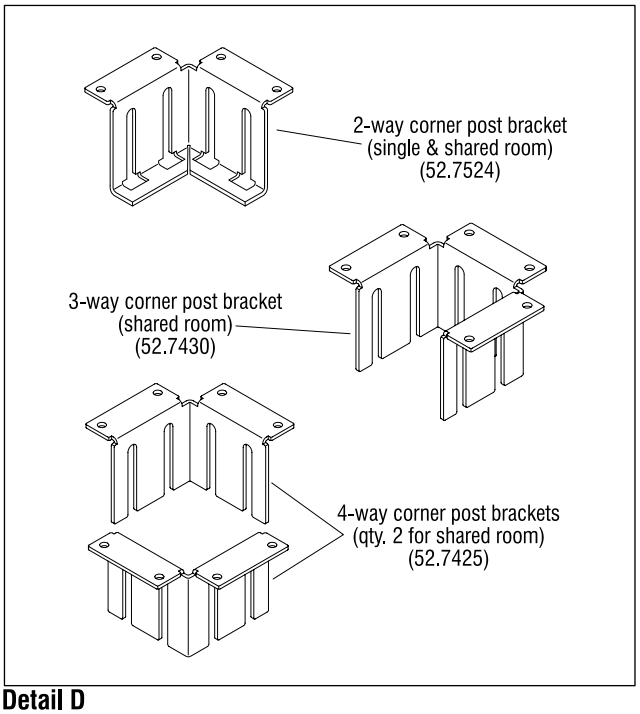


Figure 9 - Shared Room

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail D

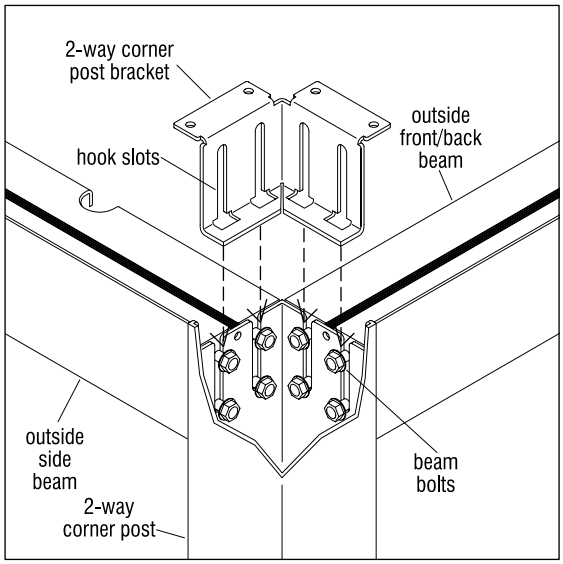


Figure 10

Shared Room Frame - Corner Post Brackets

Note: 2-way, 3-way and 4-way corner posts all have corner post brackets installed the same. 2-way corner posts use single room 2-way corner bracket (52.7524), 3-way corner posts use a 3-way corner bracket (52.7430) and 4-way corner posts use two 2-way corner post brackets (52.7425) (Detail D).

19. Once beams are in place and the structure is standing on its own, the top corner post brackets must be installed by first placing a top corner bracket into the open top section of the posts and sliding the hook slots of the bracket onto the beam bolts (Figure 10).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Louver Ceiling Installation

Note: Pages 24 through 25 covers "Louver Ceiling Installation".If your ceiling being installed is "Louver with Light & Fan Plank Ceiling Installation", go to page 26. If your ceiling being installed is "Plank Ceiling Installation", go to page 29. If your ceiling being installed is "Fan Plank, Air Intake Plank, Light Plank & Blank Plank Ceiling Installation", go to page 33.

Note: An outside front/back beam (or shared front/back beam for shared room installations) is identified by not having electrical cutouts in the beam. Beams with electrical cutouts are outside side beams and do not receive louver ceiling brackets.

1. Position a louver ceiling bracket as illustrated, with the smaller flange face down to nest into the center threaded recess in the top of the outside front/back beam. Positioned correctly, the front of the bracket will be flush with the outside face of the outside front/back beam (Figure 1 & Detail A).

2. Position the louver ceiling bracket centered between post tops, on the outside front/back beam, locate the mounting holes at each end of the ceiling bracket, then secure the ceiling bracket to the top of the beam using ¼-14 x ¾" self-drilling Tek screws through the mounting holes and into the top of the beam (Figure 1 & Detail A).

3. If a beam to receive louvered ceiling is a shared front/back beam for shared room installations, two louver ceiling brackets are required on the beam that is specified as shared. The second louver ceiling bracket installs the same as step 2 above (Detail B).

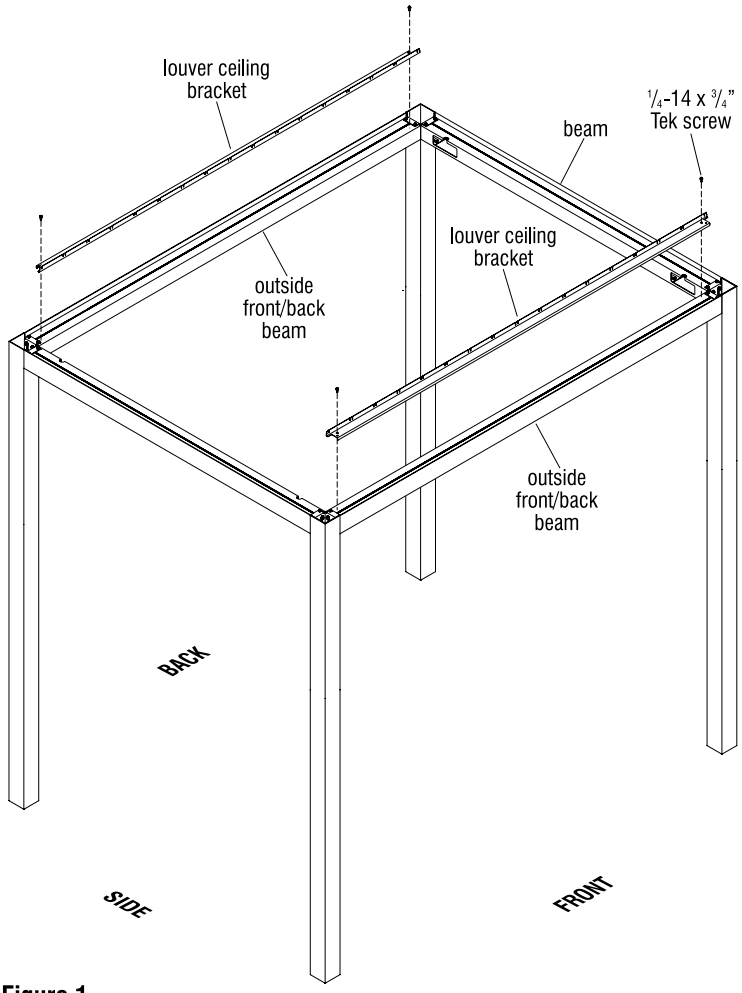
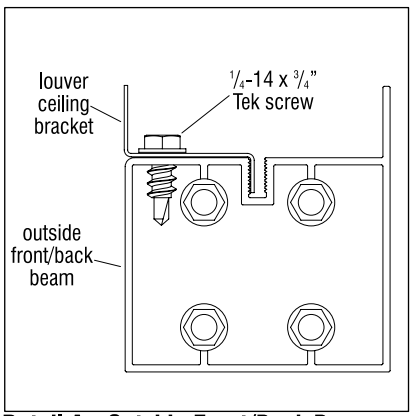
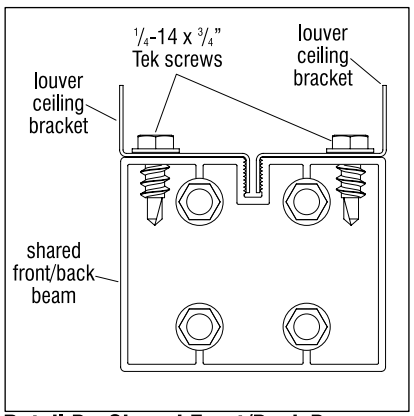


Figure 1



Detail A - Outside Front/Back Beam



Detail B - Shared Front/Back Beam

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

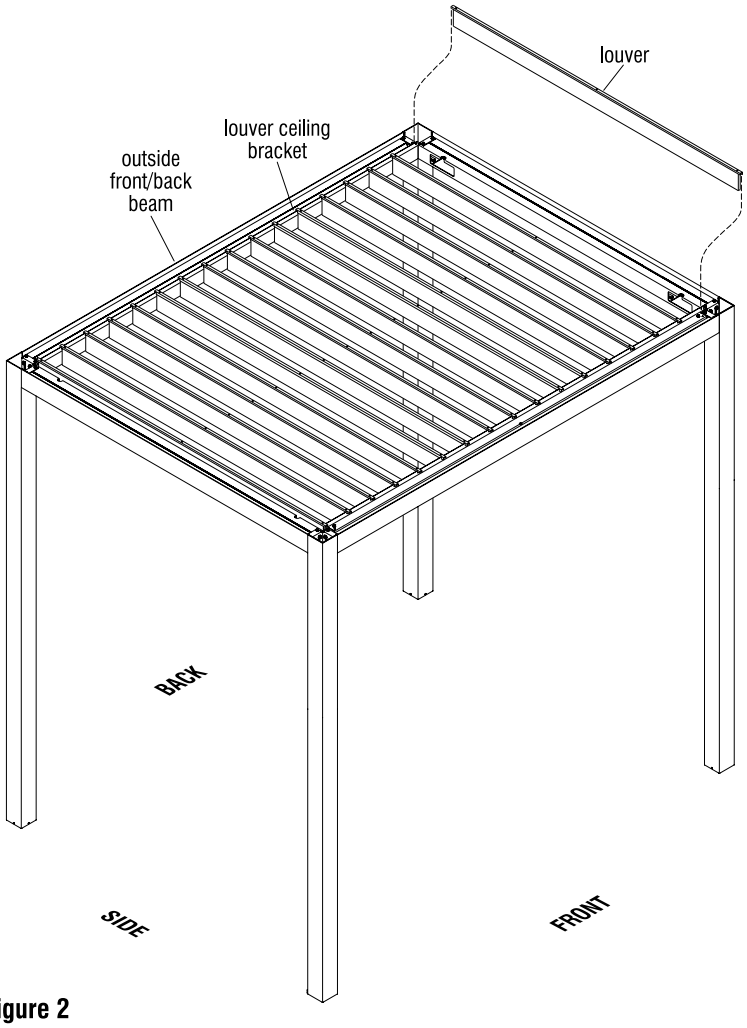
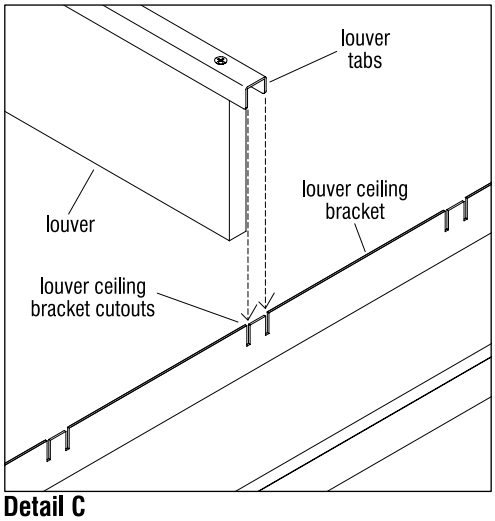


Figure 2



Detail C

Louver Ceiling Installation (cont.)

4. Next, nest louvers one at a time into the top of each ceiling bracket by positively engaging the outer tabs of the louver into the appropriate cutouts in each louver ceiling bracket. Assure that each louver is installed straight, is parallel to the others and in the correct cutout before installing the rest into the unit (Figure 2 & Detail C).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Louver with Light & Fan Plank Ceiling Installation

Note: Pages 26 through 28 covers "Louver with Light & Fan Plank Ceiling Installation". If your ceiling being installed is "Louver Ceiling Installation", go to page 24. If your ceiling being installed is "Plank Ceiling Installation", go to page 29. If your ceiling being installed is "Fan Plank, Air Intake Plank, Light Plank & Blank Plank Ceiling Installation", go to page 33.

1. First, go to page 24 and follow steps 1 through 3 to install louver ceiling brackets to the tops of both outside front/back beams (page 24, Figure 1, Details A & B).

2. Locate the light & fan plank unit and carefully remove packaging materials. Set the unit on a soft, protective surface with the ceiling side face-down and lift off the light & fan plank lid. No hardware attaches the lid to the plank unit. Set the lid aside at a safe storage location as the lid will be re-installed at the end of the assembly process (Figure 1).

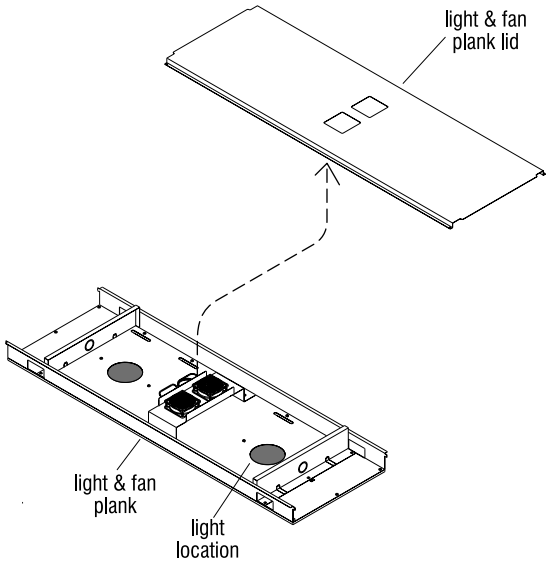


Figure 1

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

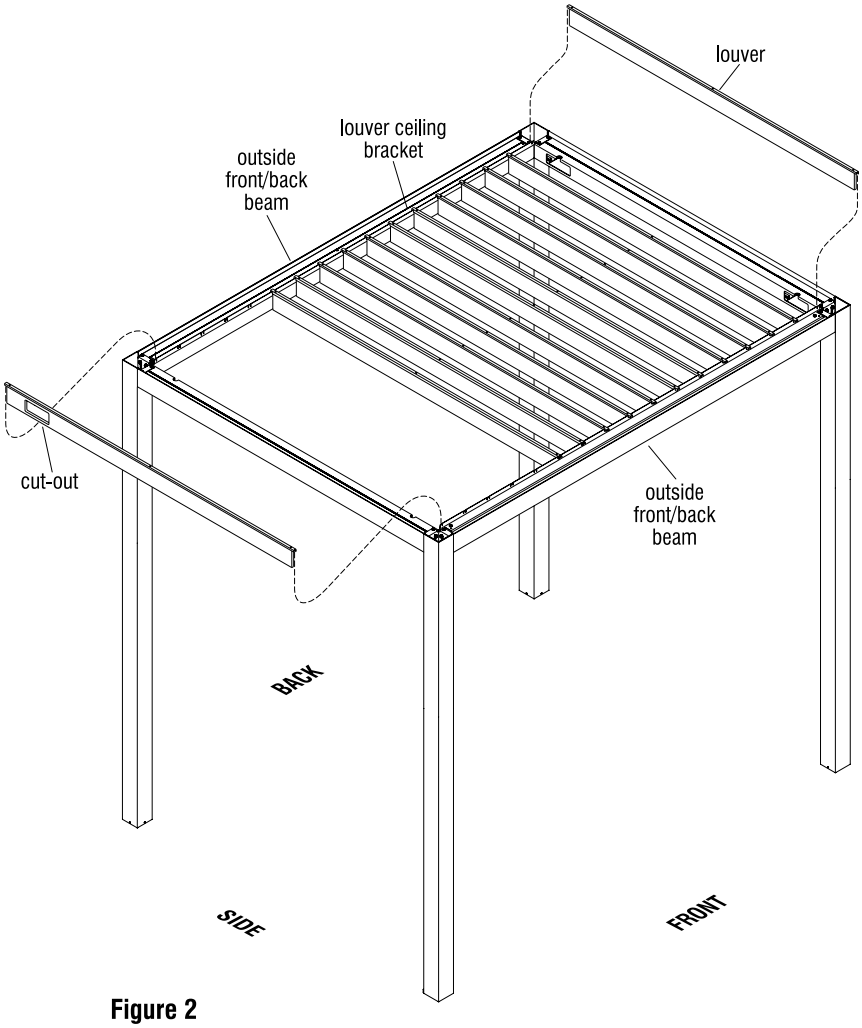
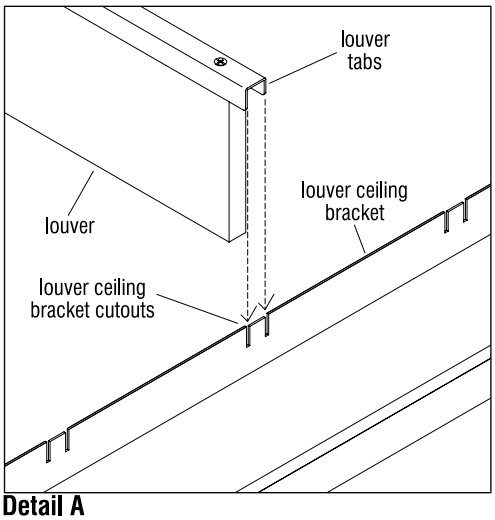
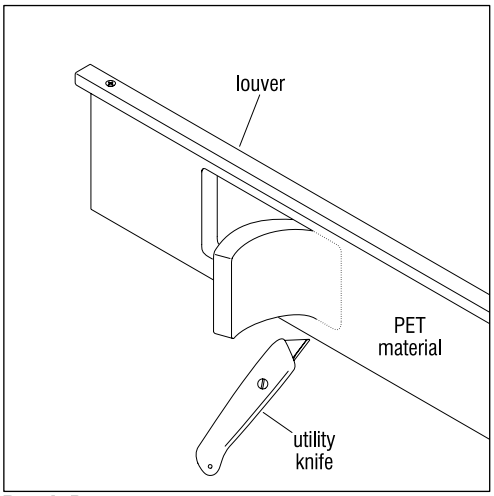


Figure 2



Detail A



Detail B

Louver with Light & Fan Plank Ceiling Installation (cont.)

3. The light & fan plank unit will install onto the top of the pair of louver ceiling brackets. Per the plan for the room being assembled, do not install louvers where the light & fan plank unit will install (Figure 2).

4. Next, nest louvers only to where the light & fan plank unit will not install, one at a time into the top of each ceiling bracket by positively engaging the outer tabs of the louver into the appropriate cutouts in each louver ceiling bracket. Assure that each louver is installed straight, is parallel to the others and in the correct cutout before installing the rest into the unit (Figure 2 & Detail A).

5. When a light & fan plank is installed next to a beam with electrical cutouts as illustrated in Figure 2, the louver located between the plank and the beam will need the PET material carefully and skillfully cut away with a utility knife to allow for wires to pass through at a later time (Detail B).

6. Louvers are to be installed on each side of the light & fan plank unit, and the unit shares the same notch as the installed louver on each side of it (Page 28, Figure 3 & Detail C).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Louver with Light & Fan Plank Ceiling Installation (cont.)

7. With two people, carefully lift the light & fan plank as illustrated, up and over the room and set it onto the ceiling brackets between the previously installed louvers. Positively engage the outer hooks of the plank into the cutouts of the ceiling brackets. The outer hooks of the plank will share the same cutouts in the louver ceiling bracket as the previously installed louvers on each side of it (Figure 3 & Detail C).

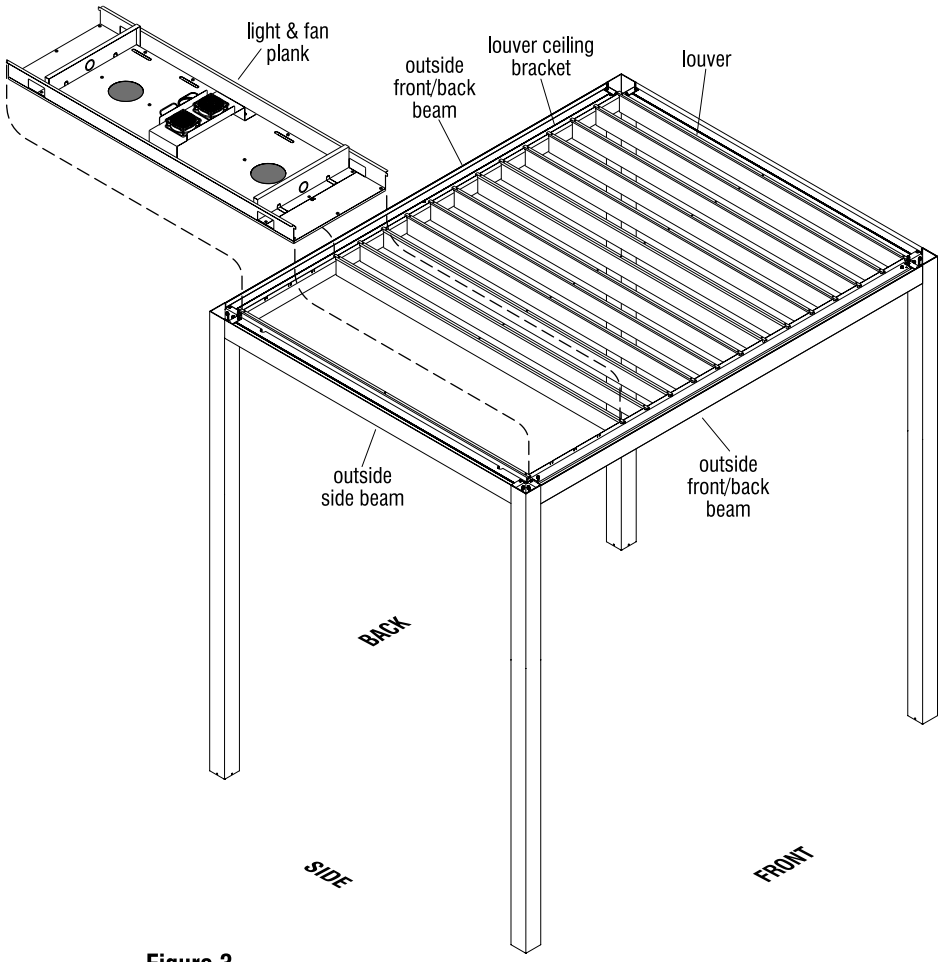
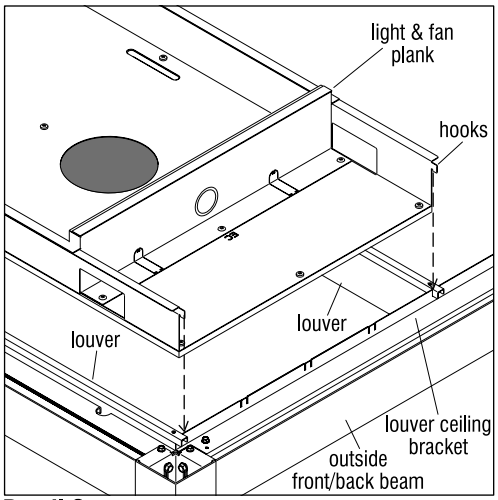


Figure 3



Detail C

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

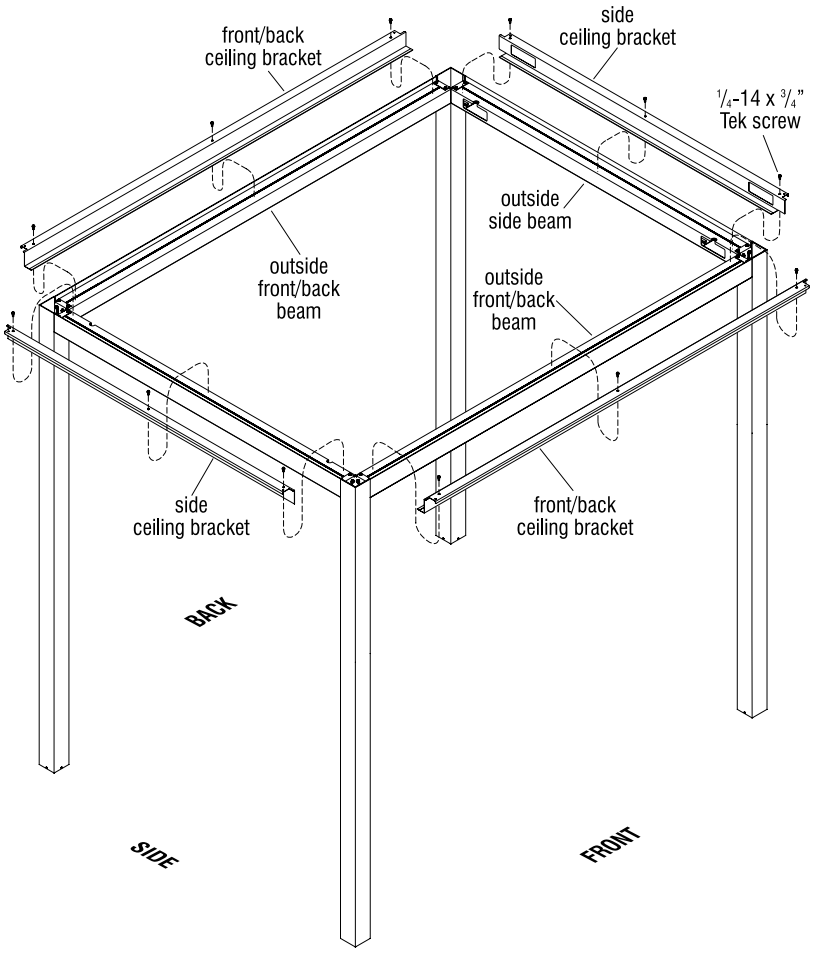
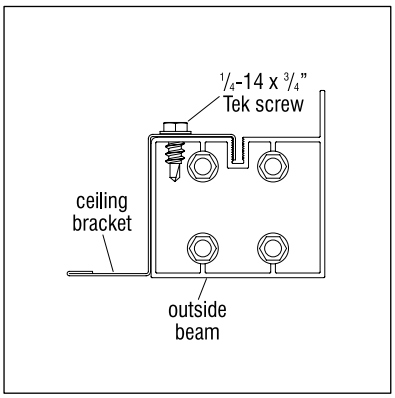
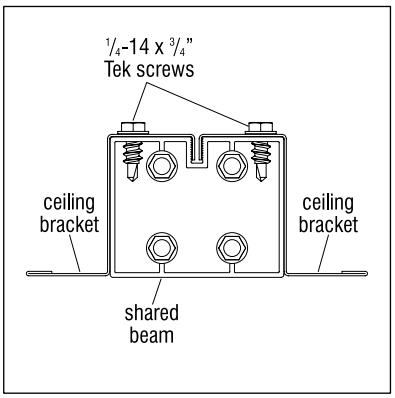


Figure 1



Detail A - Outside Beam



Detail B - Shared Beam

Plank Ceiling Installation

Note: Pages 29 through 32 covers "Plank Ceiling Installation". If your ceiling being installed is "Louver Ceiling Installation", go to page 24. If your ceiling being installed is "Louver with Light & Fan Plank Ceiling Installation", go to page 26. If your ceiling being installed is "Blank Plank & Light Plank Ceiling Installation", go to page 33.

Note: The instructions on this page cover ceiling bracket installation for various plank ceiling installations. The instructions from pages 30 through 32 covers the combination of only blank plank and light plank ceiling panel installation. If your room installation includes a combination to include some, or all of the following: fan plank, light plank, blank plank, and air intake plank, they will be covered on page 33.

1. Locate and identify the different front/back and side ceiling brackets used. The front/back ceiling brackets install to the top of outside front and back beams, while side ceiling brackets have an electrical cutout at each end and install to outside side beams. Orient the brackets as illustrated when installing in the steps below (Figure 1).
2. Following step one above for correct ceiling bracket locations, one at a time, position a front/back and side ceiling bracket as illustrated, with the smaller flange face down to nest into the center threaded recess in the top of the outside of the front/back or side beam. Positioned correctly, the front of the bracket will rest against the inside face of each beam and the ledges will be positioned to hold up the ceiling planks (Figure 1 & Detail A).
3. Position each front/back and side ceiling bracket centered between post tops, on each outside front/back and side beams, locate the mounting holes at each end of the ceiling bracket, then secure each ceiling bracket to the top of each beam using ¼-14 x ¾" self-drilling Tek screws through the mounting holes and into the top of the beam (Figure 1 & Detail A).
4. If your room installation includes a combination of only blank plank and light plank ceiling panels, go now to page 30. If your room installation includes a combination to include some, or all of the following: fan plank, light plank, blank plank, and air intake plank, go now to page 33 "Fan Plank, Light Plank, Blank Plank & Air intake Plank Installation".
5. If any beam to receive a front/back or side ceiling bracket is a shared beam for shared room installations, two ceiling brackets are required, one on each side of the beam which is specified as shared. The second ceiling bracket installs the same as step 3 above (Detail B).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Blank Plank & Light Plank Installation

Note: This ceiling plank installation section, pages 30 through 32 covers the combination of only blank plank and light plank installation. If your room installation includes a combination to include some, or all of the following: fan plank, air intake plank, light plank & blank plank, go now to pages 33 through 35, "Fan Plank, Light Plank, Blank Plank & Air Intake Plank Installation".

1. Locate and identify the different blank and light ceiling planks for the room being installed. Carefully remove the packing material, set each unit on a soft, protective surface with the ceiling side face-down and lift off each plank's lid. No hardware attaches the lid to the plank unit. Set the lids aside at a safe storage location as the lids will be re-installed at the end of the assembly process (Figure 2).

2. Figures 3, 4 & 5 illustrate the different ceiling plank locations based on different size structures being assembled. Please note that the light planks are generally always located in the middle, or near the middle of a room. Figure 5 shows the largest size structure, which has two light planks divided by a blank plank (Figures 3, 4 & 5).

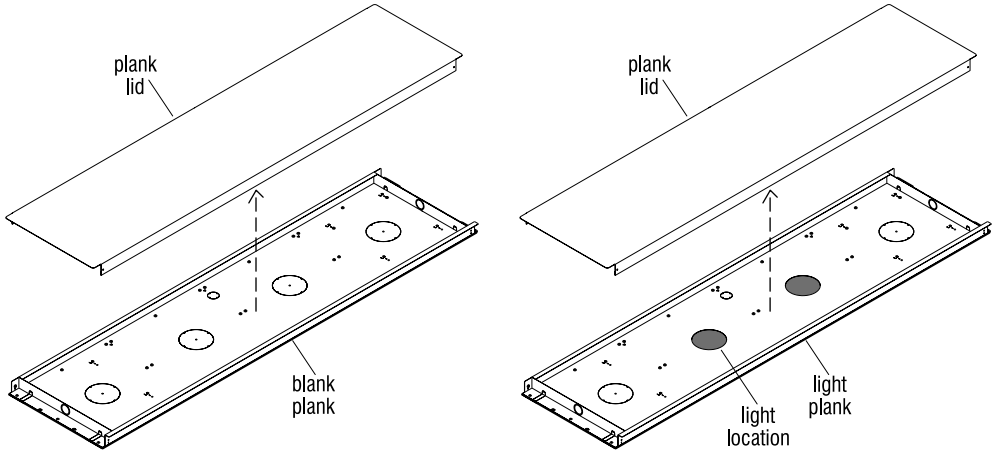


Figure 2

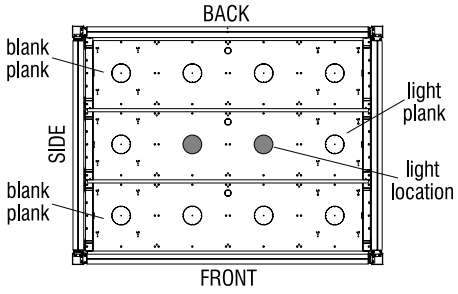


Figure 3 - Single Light Plank (6' x 6" & 8' x 6')

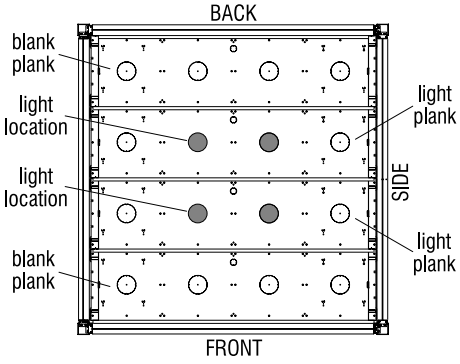


Figure 4 - Double Light Plank (8' x 8' & 10 x 8')

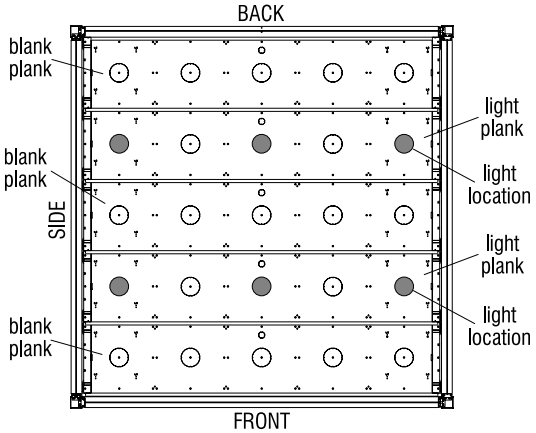


Figure 5 - Double Light Plank w/ Blank Plank (10' x 10')

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

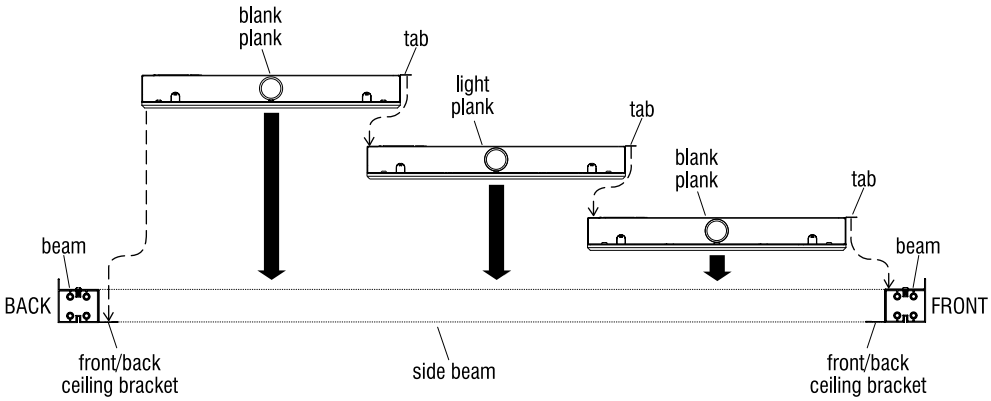


Figure 6

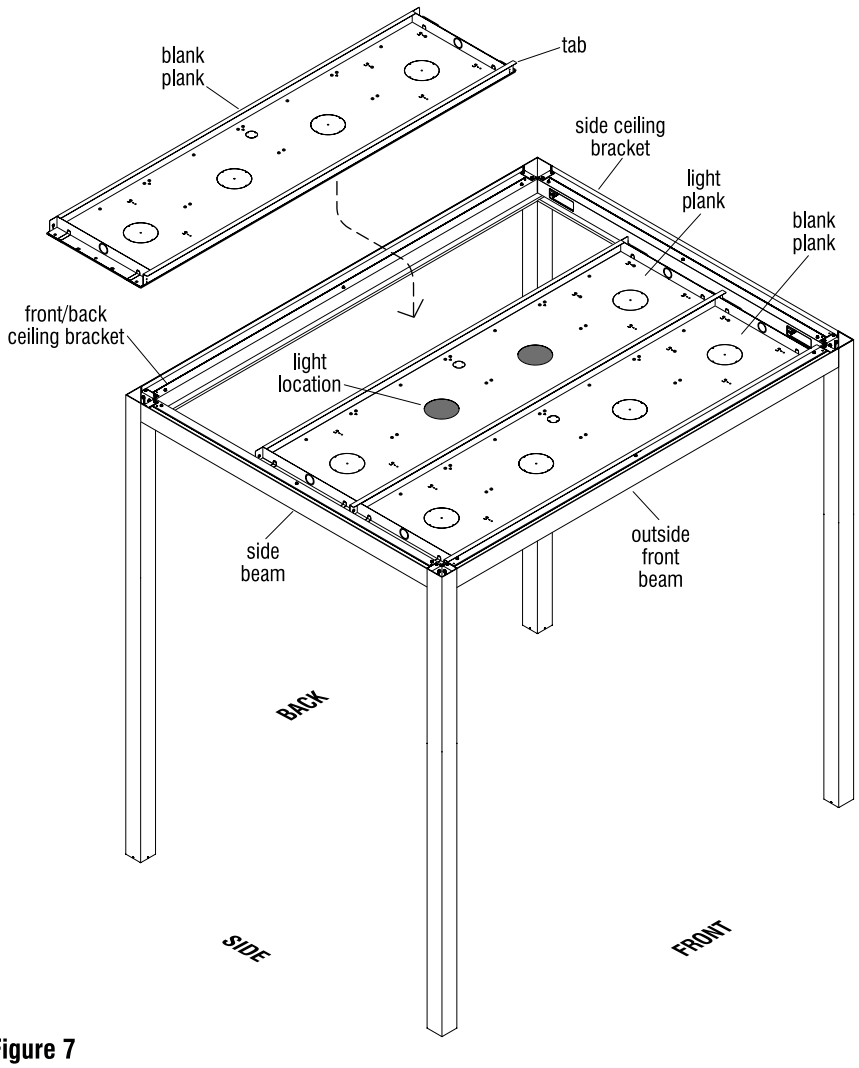


Figure 7

Blank Plank & Light Plank Installation (cont.)

Note: The installation of ceiling planks is generally the same process, for any of the two types of planks available in this combination. Plank installation begins at the front of the room. Your configuration may vary from the figures on this page, as your room plan will determine which plank goes at what location and in what orientation.

3. Start by installing the ceiling plank which will be in the front of the room (Figure 6). With two people, carefully lift the plank designated for the front as illustrated, up and over the room. Set the front plank in place such that the longer side "tab" rests on the top of the front beam as illustrated, and the end flanges rest on both ceiling side brackets. Repeat placing ceiling planks into position by positioning the next plank so the plank's long edge tab rests on the previous plank installed, and the end flanges rest on both ceiling side brackets. Repeat the above process for remaining ceiling planks (Figures 6 & 7).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Blank Plank & Light Plank Installation (cont.)

4. Once all planks are in place, they must be attached together. Above the planks near the beams, locate the mounting holes on the vertical flanges of each. Align the mounting holes and secure the flanges together using a ¼-20 x ½" Torx screw between each ceiling plank. Complete this at locations where each ceiling plank meets, and at both sides of the room (Figure 8 & Detail A).

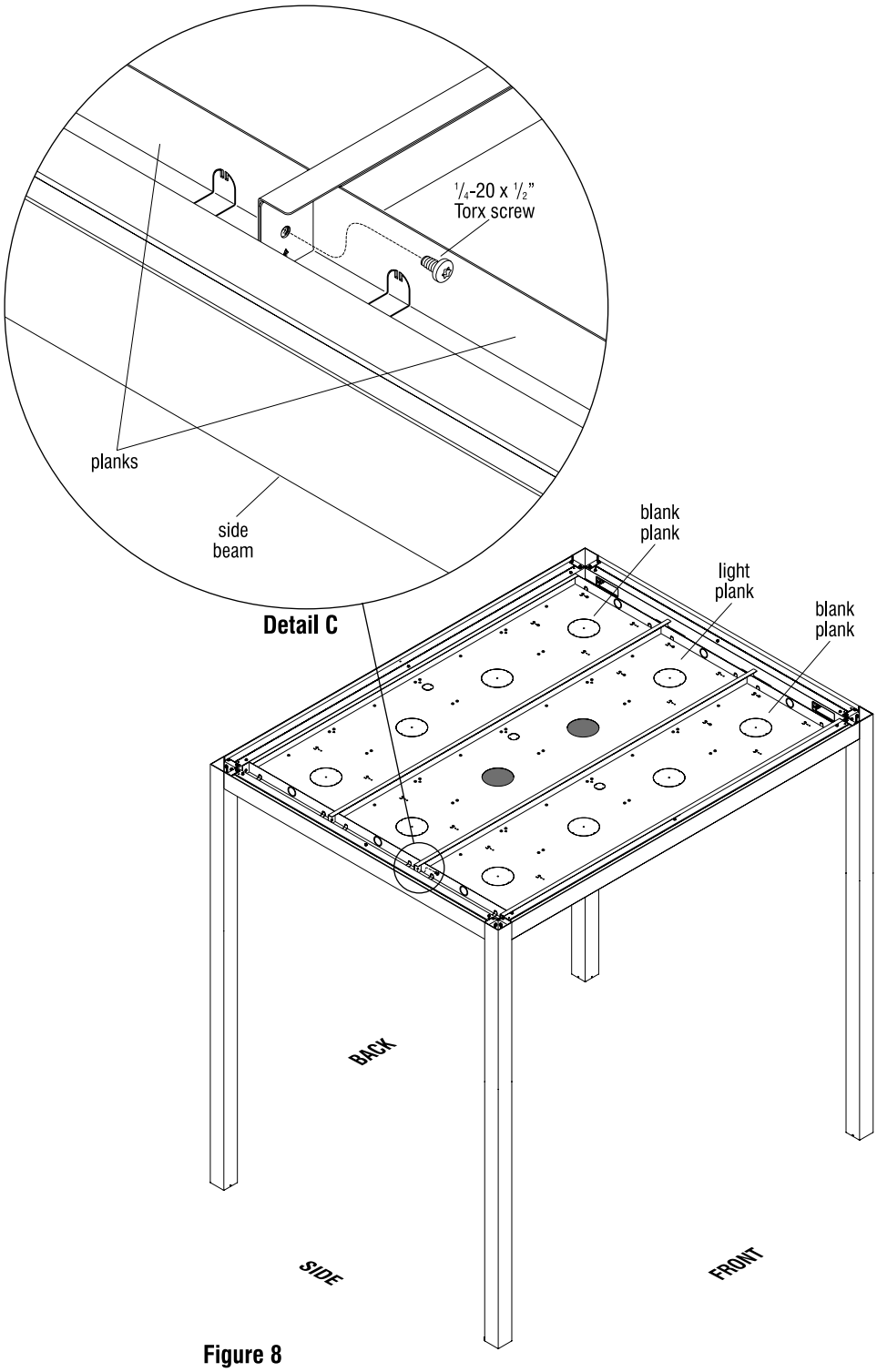


Figure 8

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

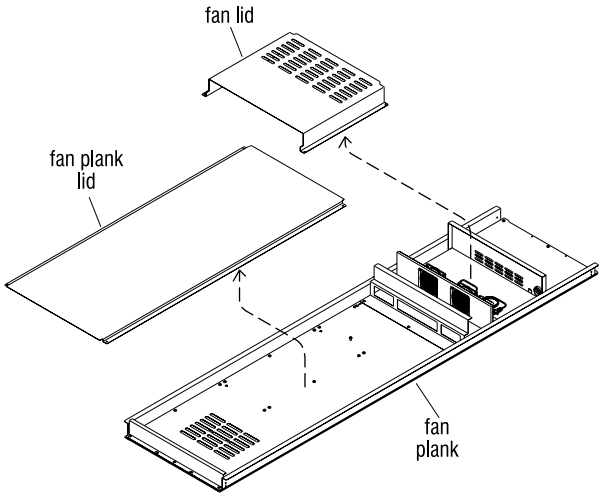


Figure 1 - Fan Plank

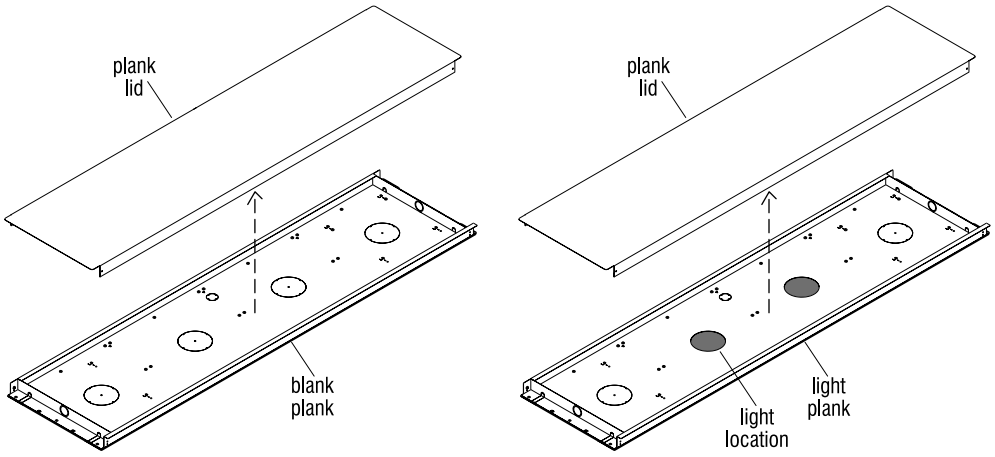


Figure 2 - Blank Plank/Light Plank

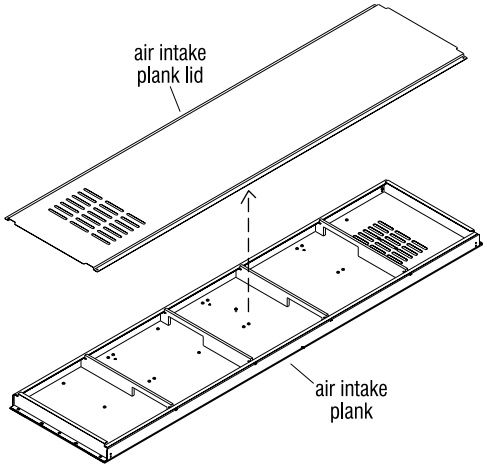


Figure 3 - Air Intake Plank

Fan Plank, Air Intake Plank, Light Plank & Blank Plank Installation

Note: Pages 33 through 36 covers "Fan Plank, Air Intake Plank, Light Plank & Blank Plank Ceiling Installation". If your ceiling being installed is "Louver Ceiling Installation", go to page 24. If your ceiling being installed is "Louver with Light & Fan Plank Ceiling Installation", go to page 26. If your ceiling being installed is "Plank Ceiling Installation", go to page 29.

Note: This ceiling plank installation section, pages 33 through 35 covers the combination of some, or all of the following: fan plank, air intake plank, light plank & blank plank as your configuration may vary. If your room installation includes only blank plank and light plank, go back to page 30 "Blank Plank & Light Plank Installation".

1. If not already completed, per the instructions on page 29, install the front/back and side ceiling brackets (page 29, Figure 1, Details A & B)

2. Locate and identify the different fan plank, air intake plank, light plank and/or blank plank ceiling planks for the room being installed. Carefully remove the packing material, set each unit on a soft, protective surface with the ceiling side face-down and lift off each plank's lid. No hardware attaches the lid to the plank unit. Set the lids aside at a safe storage location as the lids will be re-installed at the end of the assembly process (Figures 1, 2 & 3).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Fan Plank, Air Intake Plank, Light Plank & Blank Plank Installation (cont.)

3. Figures 4, 5 & 6 illustrate some ceiling plank combination/ locations based on different size structures being assembled. Please note that the light planks are generally always located in the middle, or near the middle of a room. Figure 6 shows the largest size structure, which has two light planks divided by a blank plank (Figures 4, 5 & 6).

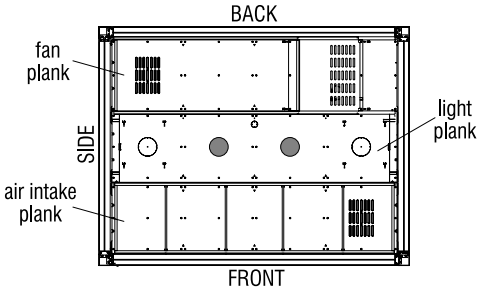


Figure 4 - Single Light Plank (6' x 6" & 8' x 6')

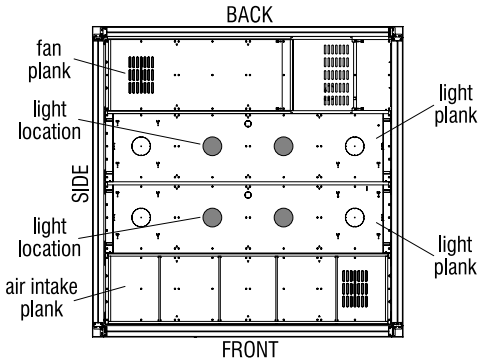


Figure 5 - Double Light Plank (8' x 8' & 10 x 8')

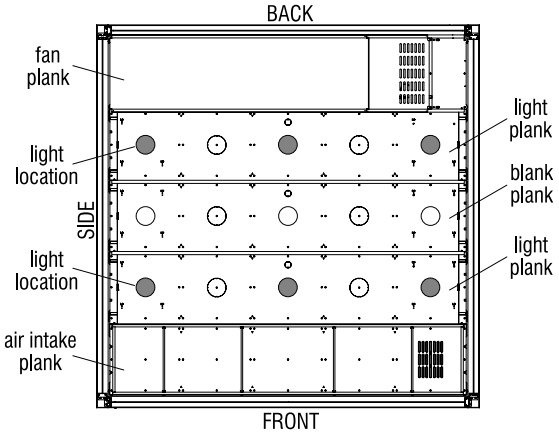


Figure 6 - Double Light Plank w/ Blank Plank (10' x 10')

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

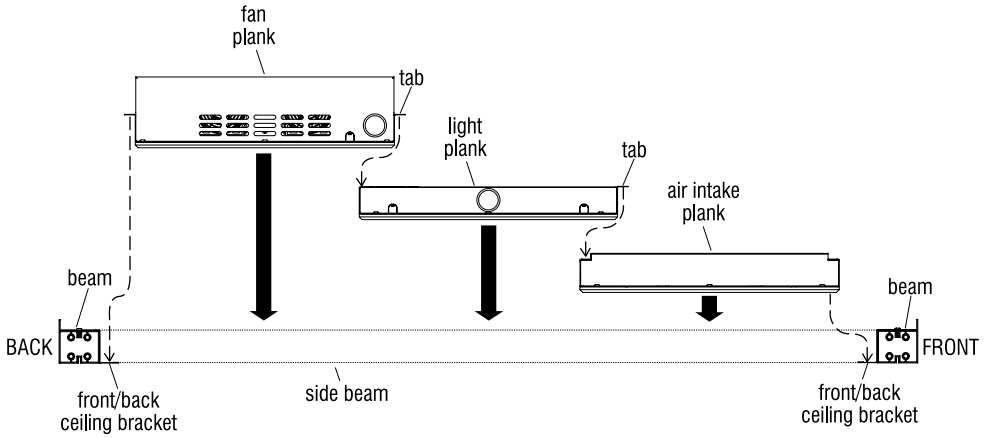


Figure 7

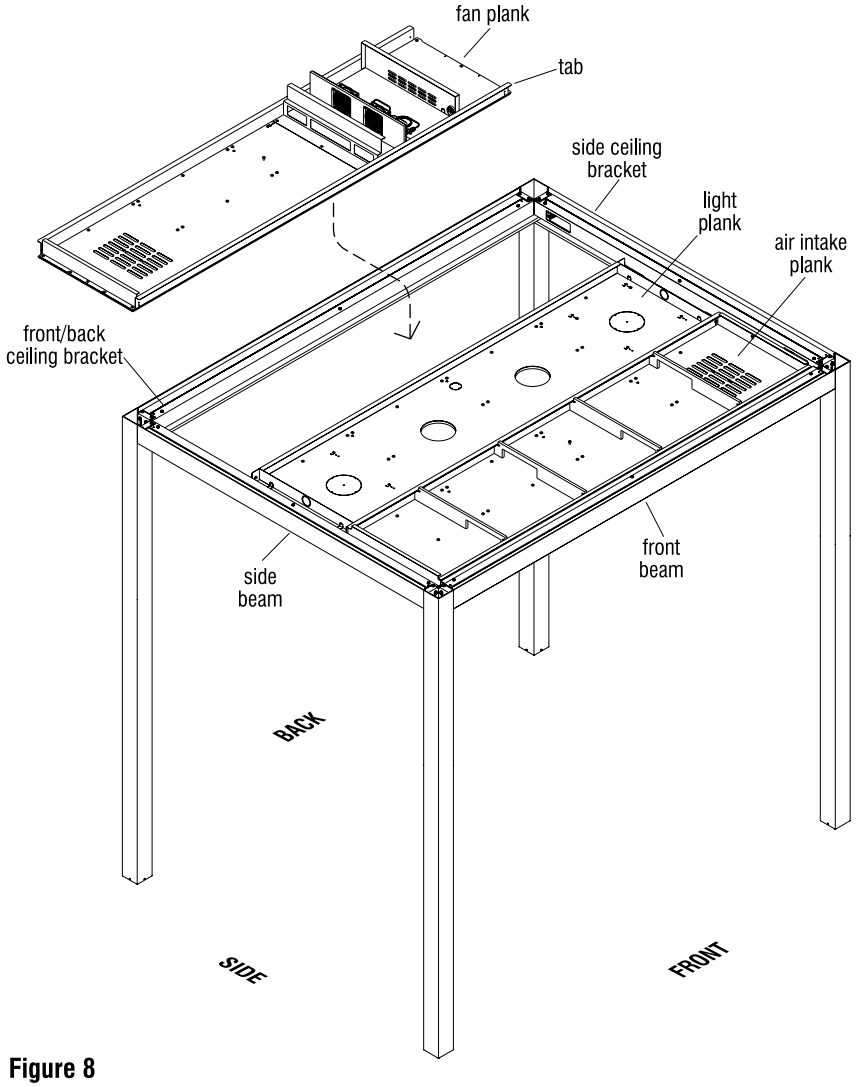


Figure 8

Fan Plank, Air Intake Plank, Light Plank & Blank Plank Installation (cont.)

Note: The installation of ceiling planks is generally the same process, for any of the four types of planks available in this combination. Plank installation begins at the front of the room. Your configuration may vary from the figures on this page, as your room plan will determine which plank goes at what location and in what orientation.

4. Start by installing the ceiling plank which will be in the front of the room (Figure 7). With two people, carefully lift the plank designated for the front as illustrated, up and over the room. Set the front plank in place such that the longer side "tab" rests on the top of the front beam as illustrated, and the end flanges rest on both ceiling side brackets. Repeat placing ceiling planks into position by positioning the next plank so the plank's long edge tab rests on the previous plank installed, and the end flanges rest on both ceiling side brackets. Repeat the above process for remaining ceiling planks (Figures 7 & 8).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Fan Plank, Air Intake Plank, Light Plank & Blank Plank Installation (cont.)

5. Once all planks are in place, they must be attached together. Above the planks near the beams, locate the mounting holes on the vertical flanges of each. Align the mounting holes and secure the flanges together using a ¼-20 x ½" Torx screw between each ceiling plank. Complete this at locations where each ceiling planks meets, and at both sides of the room (Figure 9 & Detail A).

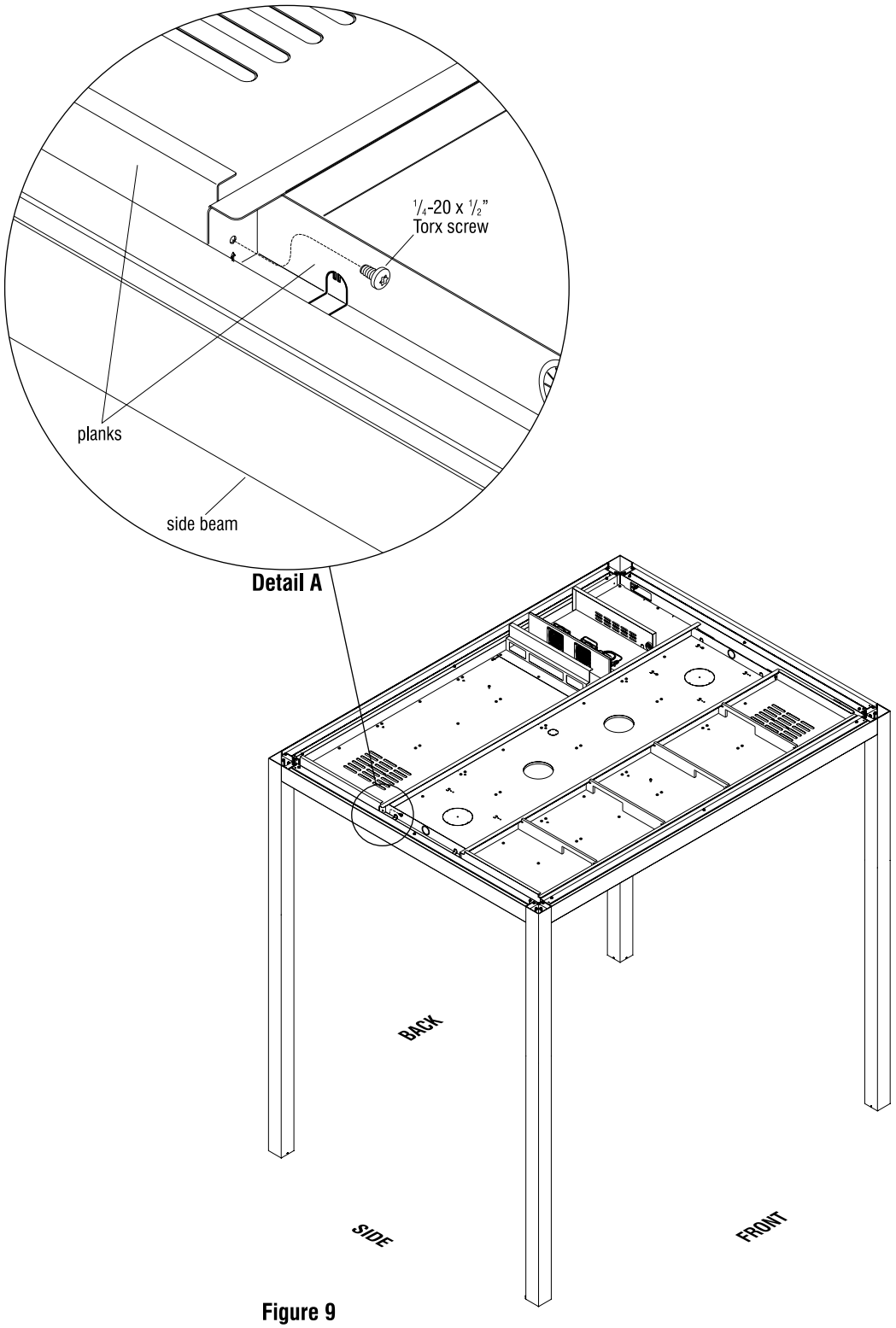


Figure 9

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

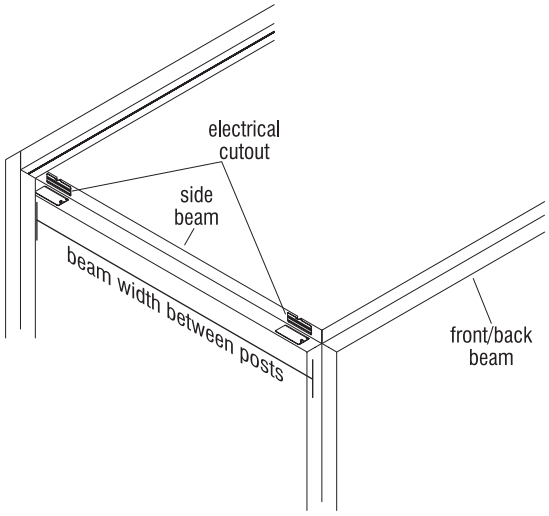
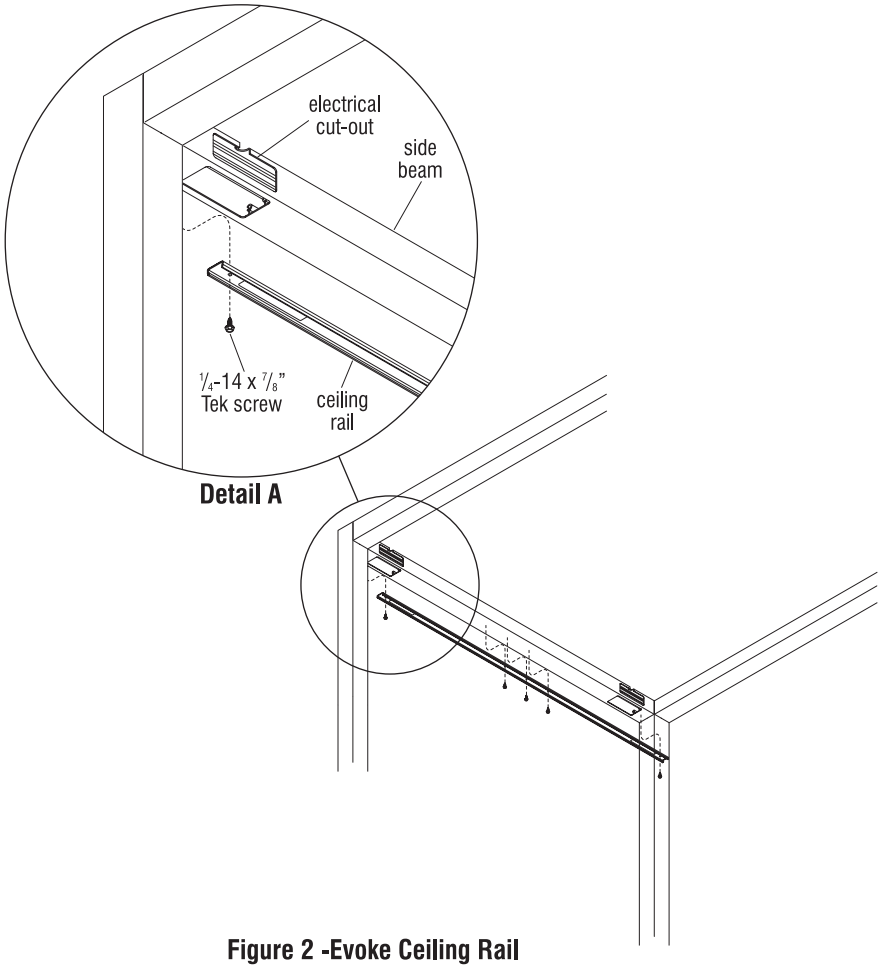


Figure 1 - Measure For Evoke Ceiling Rail



Detail A

Figure 2 -Evoke Ceiling Rail

Wall Panels Installation Overview

Your wall configuration installation will be determined by the KI quote drawing (or KI Installation Plan) supplied for your installation. Evoke Walls (solid panels - non-glass) are always installed to side walls, as they can carry electrical components. Evoke Walls can install to a back wall if specified, but cannot carry any electrical. Genius Walls (glass wall panels) are always installed to the front of a room to accompany a door. If specified, Genius Walls can be installed to the back wall of a room, but cannot carry electrical.

Evoke Wall – Panel Installation

Note: Instructions on pages 37 through 43 cover installation of Evoke Wall panels to WiggleRoom Super Structure side walls. Installation of Genius Wall glass panels to front and/or back of rooms will be on pages 44 through 47. If your installation specifies an Evoke Wall at the back wall, the instructions to follow will be generally the same.

1. Locate the side beam with electrical cutouts to receive an Evoke Wall panel. Determine which pre-sized ceiling rail is required based on beam width between the posts (Figure 1).

2. Position the pre-sized ceiling rail up under the center of the beam, between posts. Align and center the ceiling rail at the underside of the beam, and install the ceiling rail to the beam using $^{1}/_{4}$-14 x $^{7}/_{8}$" Tek screws provided through each ceiling rail mounting hole (Figure 1 & Detail A).

3. Repeat steps 1 and 2 above to add ceiling rail under beams where other Evoke Wall panels will install (Figures 2 & 3).

   Note: If an Evoke Wall panel is specified at a back wall which has no electrical cutouts at the beam, the ceiling rail will still have electrical cutouts.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Evoke Wall – Panel Installation (cont.)

Important: Floor channels install differently, depending on whether the installation site has hard floors, or carpeted floors. At installations with hard floors (steps 5 & 6), the bottom of the floor channel will require a neoprene gasket (50" roll – part # 38.06.1302) and anchors for specific floor types must be used (Page 39, Details A & B). If the site has carpeted floors (step 7) no gasket is required to add stability of the floor channel to the carpeted floor.

4. With the posts positioned properly at their specified floor locations, measure the distance at the floor, between the side wall posts which are to receive an Evoke Wall panel. Subtract 1/4" from that measurement and cut the floor channel to that size, to allow panels and posts to be tight without interference. Then follow either steps 5 and 6, or step 7 below (Figure 3).

5. If your structure's floor is hard, turn the cut-to-size floor channel upside down as illustrated and apply the neoprene gasket to the underside of the floor channel, along the entire length of the channel center. Cut the neoprene gasket off at the end, leave the white cover strip on and press the gasket down firmly along the entire length of the floor channel to make sure it is fully seated (Figure 2).

6. The hard-surface floor must be cleaned well for better grip of the neoprene gasket. Then, remove the white cover strip from the gasket and turn the floor channel right-side up and place it between and directly on-center to the posts to receive an Evoke Wall panel. Take care to not damage the neoprene gasket when positioning it properly. Once centered correctly in position, press down firmly along the length of the floor channel to set in place (Figure 3).

7. If carpeting is at your structure's installation site, turn the floor channel right-side up and place it between and directly on-center to the posts to receive an Evoke Wall panel (Figure 3).

8. Repeat steps 4 through 7 above to add floor channel between posts where other Evoke Wall panels will install (Figures 2 & 3).

   Note: Floor type at installation location will determine which floor anchor to use for the floor channel. See page 39, Details A & B.

9. With floor channels sized and in place, floor anchors are then required to secure the channel in place. Refer to page 39, Details A & B to determine appropriate anchor requirements and spacing, then install the floor channel using floor anchors (Figure 3 & Page 39, Details A & B).

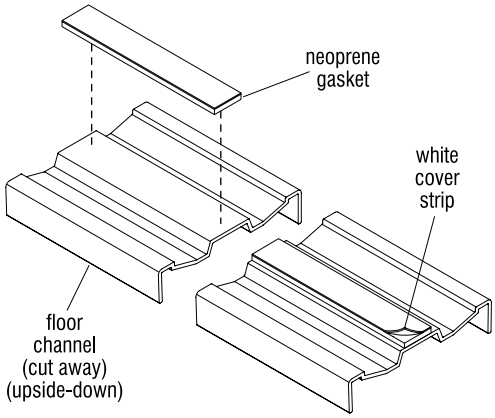


Figure 2 - Evoke Floor Channel

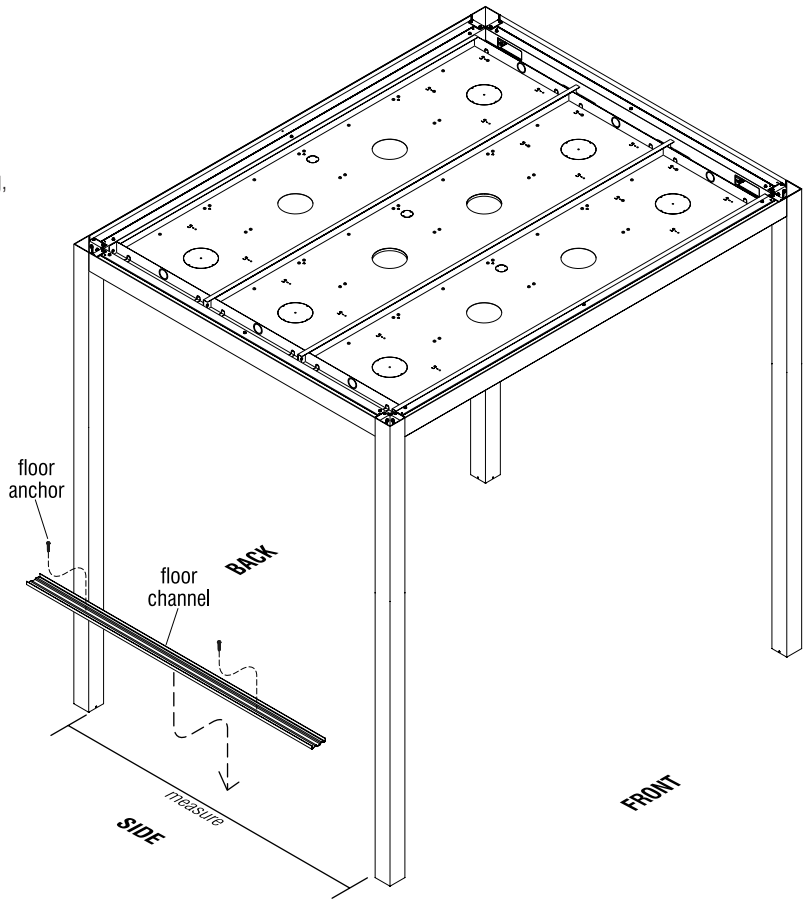
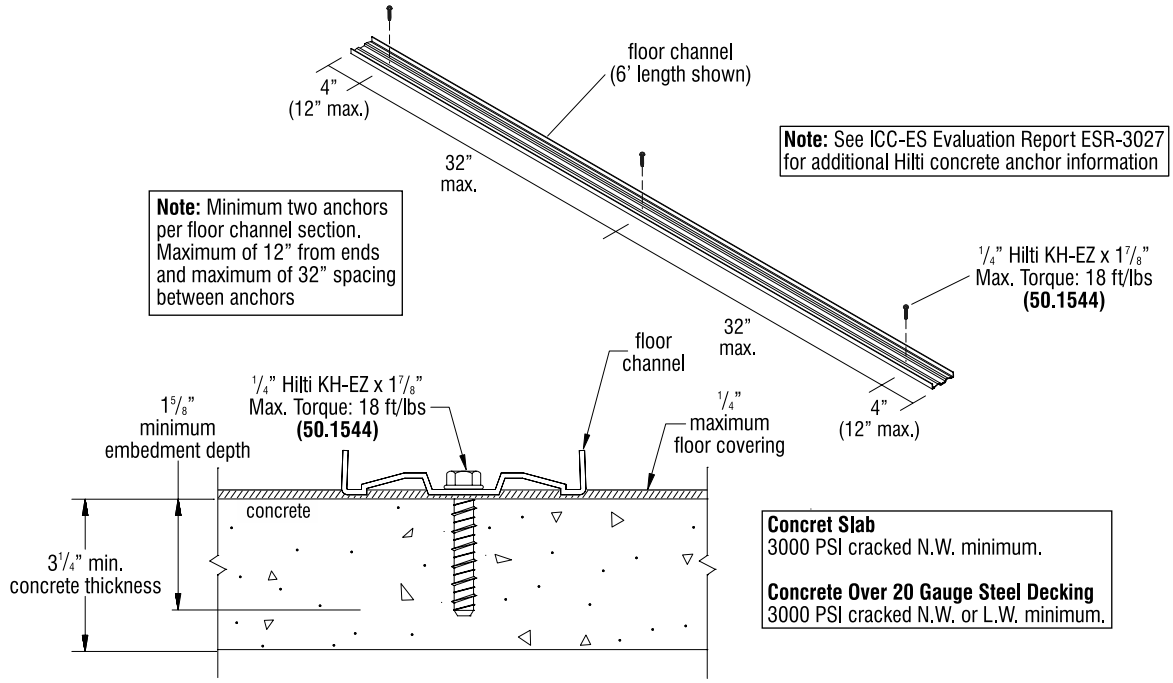


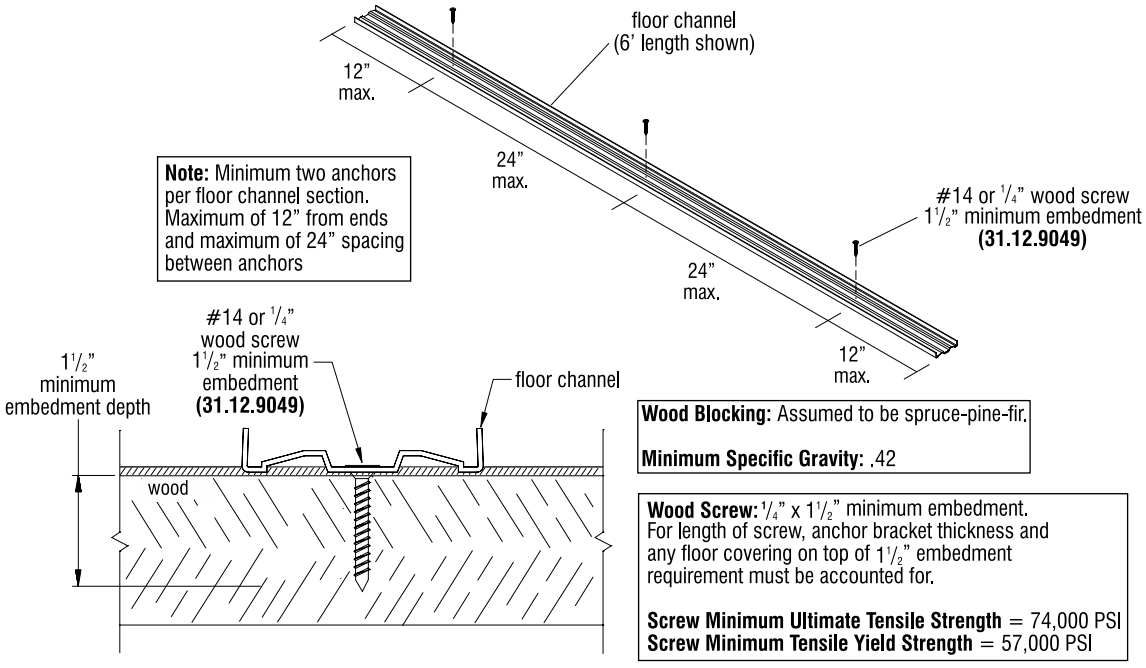
Figure 3 - Evoke Floor Channel

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail A - Evoke Wall to Concrete Floor Anchor Specifications



Detail B - Evoke Wall to Wood Floor Anchor Specifications

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Evoke Wall - Panel Installation (cont.)

Note: To save time and space, stage all Evoke panel frames into sequence. If possible, do this as panels are unloaded from the crating, eliminating double handling and potential damage.

Important: Evoke panel frames are shipped assembled with exterior panel shells attached. One of the panel shells will have insulation material attached to the inside, and one will not. The panel shell with the insulation material attached inside has a green dot sticker adhered at the bottom center of the panel for identification (Detail B). When removing an exterior panel shell for installation of panel frames to the super structure, it is recommended to not remove the panel shell with the green dot sticker. Remove the panel shell without the green dot sticker because handling of the non-insulated panel shell is less difficult.

10. Identify and stage Evoke panels for assembly in sequence, and stage near to their specific location in the super structure. Before each panel can be installed, the non-insulated exterior panel shell (without the green dot) must be removed. Carefully separate each panel shell without the green dot from the panel frame assembly and set aside to a safe location (Figure 4 & Detail C).

    Note: For the above step, it is easier to remove the appropriate exterior panel shell if the whole frame is tipped onto its side frame, on a soft protective surface (not shown).

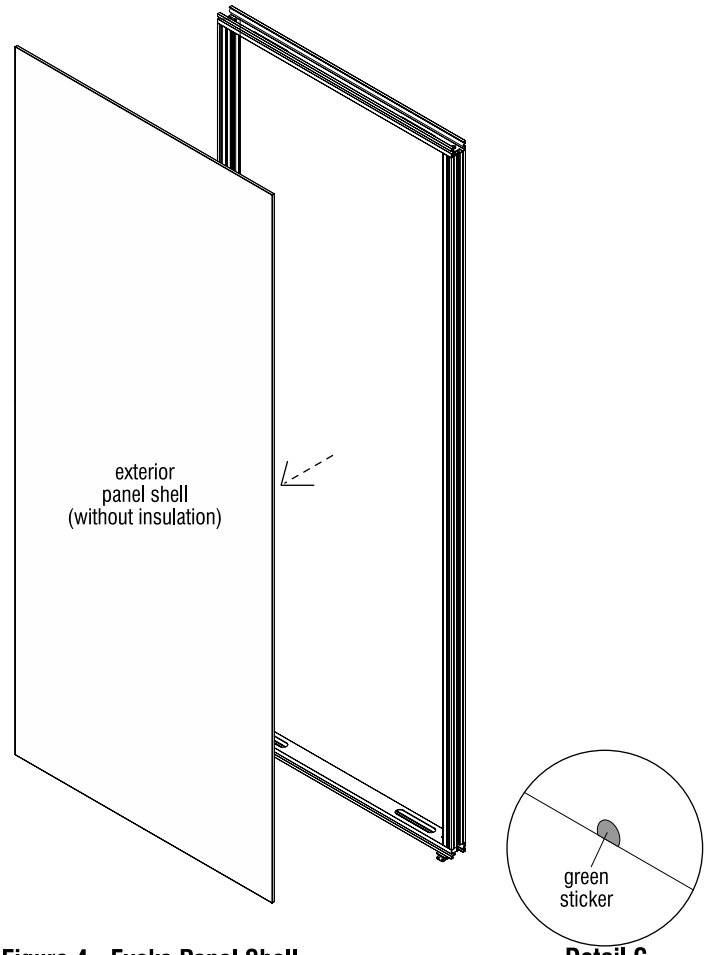


Figure 4 - Evoke Panel Shell

Detail C

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

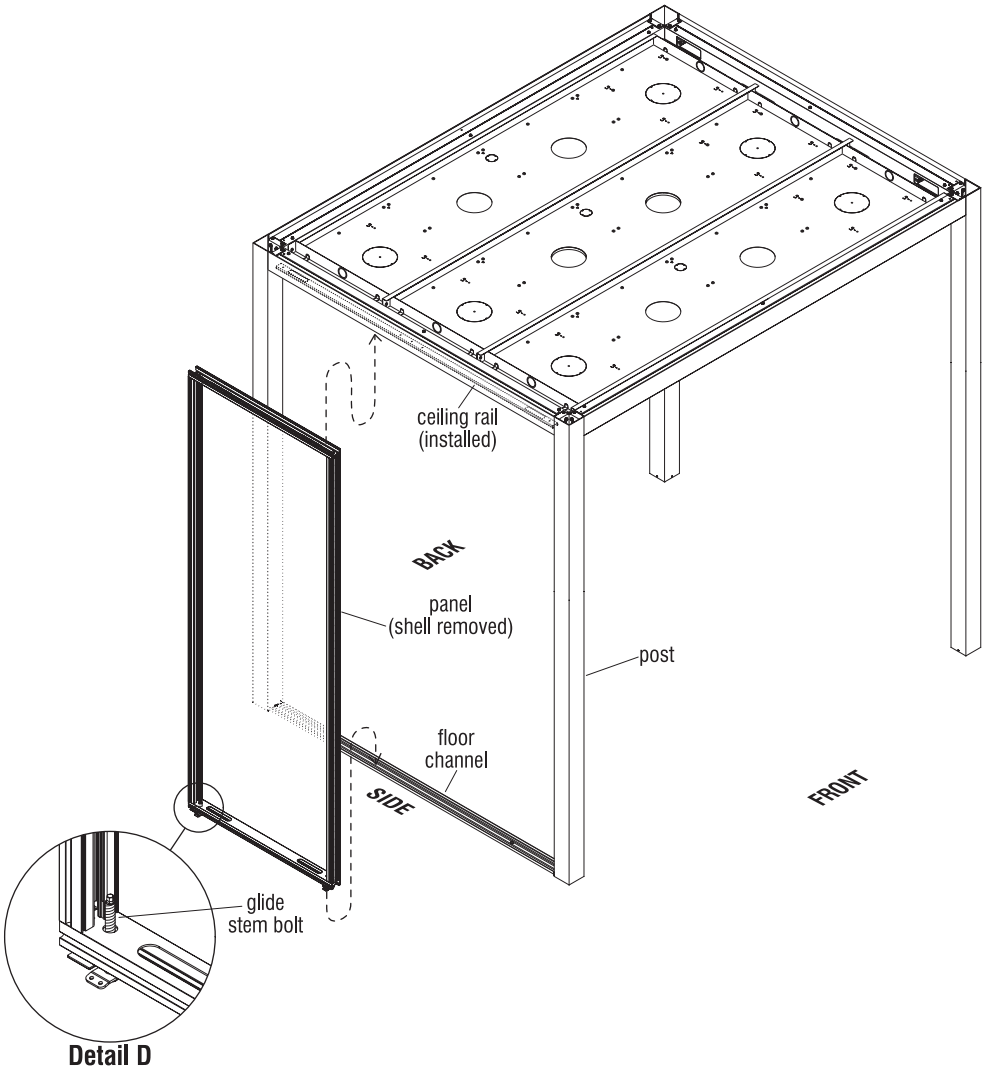


Figure 6 - Evoke Panel Installation

Evoke Wall - Panel Installation (cont.)

11. Before moving a panel frame into its proper position in the super structure, the non-insulated exterior panel shell must have been removed as was instructed on page 40.

12. With assistance of a second person, position the panel onto the floor channel first and hold the panel up & plumb to align the top with the installed ceiling rail (Figure 6).

13. With a second person holding the panel upright and steady, adjust the panel height up enough to nest it up into the ceiling rail. Raise up evenly by rotating both glide stem bolts using a power drill, 18" socket extension and a $^{5}/_{16}$" socket. To raise the panel, rotate the bolts clockwise, to lower the panel, rotate the bolts counter-clockwise (Figure 6 & Detail D). Make sure that raising the panel did not lift the posts off the floor, and assure that the panel is fully seated into the ceiling rail and plumb (Figure 6).

14. Proceed to the next page to adjust the height of the panel to the correct clearances.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Evoke Wall - Panel Installation (cont.)

15. Adjust the level and height of the panel as required by rotating the glide stem bolt using a power drill, 18" socket extension and a $^{5}/_{16}$" socket. To raise the panel, rotate the bolt clockwise. To lower the panel, rotate the bolt counter-clockwise (Figure 7).

16. Ensure that the panels are properly aligned by leveling in both the horizontal and vertical directions, referencing Figure 7 dimensions.

17. After the first panel is positioned and leveled, subsequent adjustment can be made visually by aligning adjacent panels to the first leveled panel, and so on.

18. As panel heights are adjusted, periodically use a test section of the base trim to confirm that heights are within adjustment limits. Also check the top clearance to ensure proper ceiling rail engagement (Figure 7).

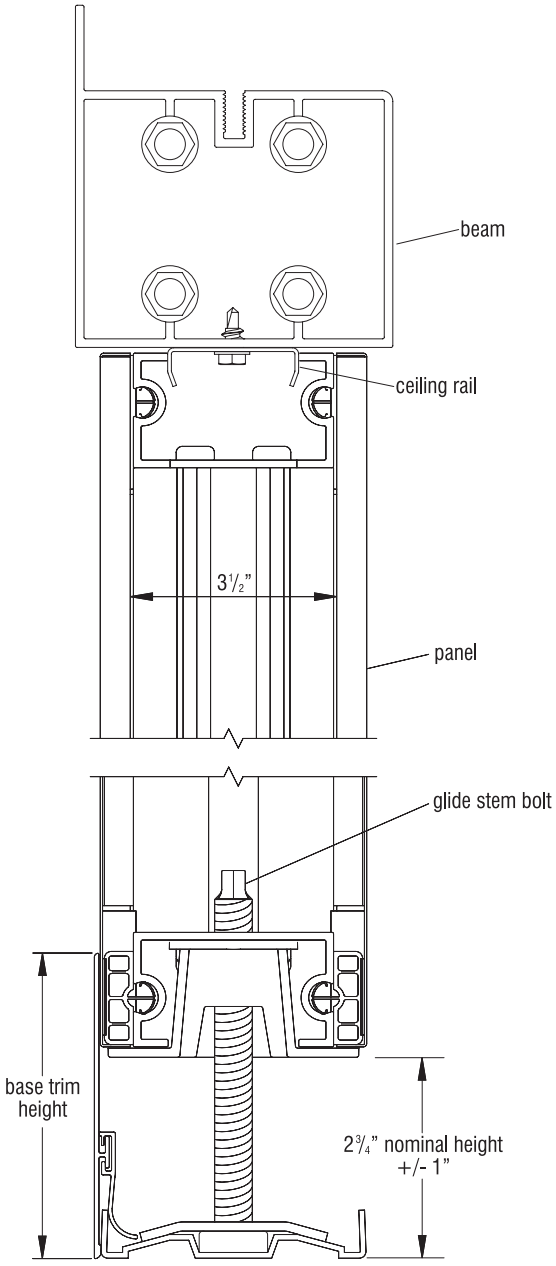


Figure 7 - Evoke Height Adjustment

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Evoke Wall - Panel Installation (cont.)

Note: The non-insulated exterior panel shells were removed as instructed on page 40 and should still be removed from the panel frames.

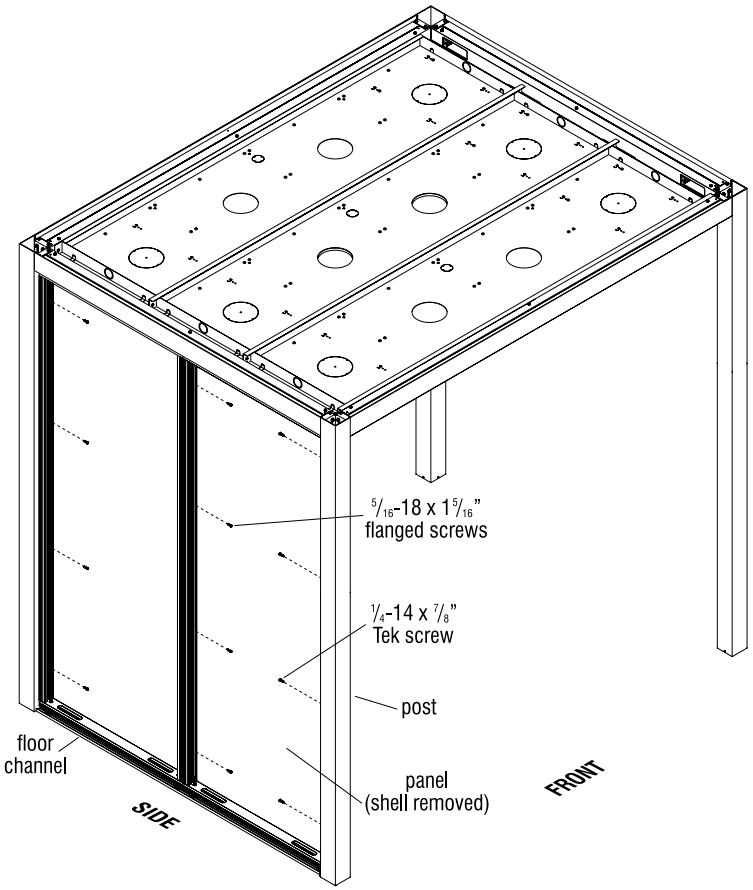


Figure 8 - Evoke Panel Attachment

19. All panel frames should be in position in the super structure and properly height adjusted as instructed on the previous page.

    Note: The flanged screws used first to secure panels together are different fasteners than the Tek screws which are used to secure the side of each panel to the posts of the super structure.

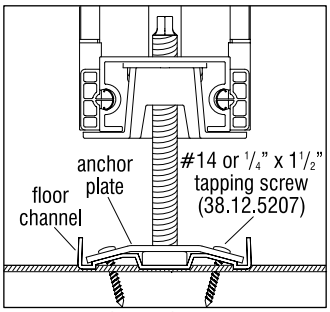
20. Press the panels together (one at a time) and secure the panels together using four $^{5}/_{16}$ -18 x $1^{5}/_{16}$" flanged screws per panel, evenly spaced as illustrated with a power drill and $^{5}/_{16}$" socket. Next attach the panels to the posts with four $^{1}/_{4}$-14 x $^{7}/_{8}$" Tek screws per post (Figure 8).

21. Once the panels are secured together and at their final location, secure the anchor plates at the bottom of each panel frame to the floor channel between posts, in one of two ways:

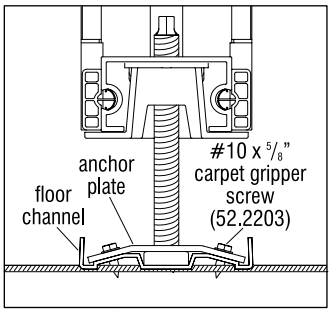
A. For steel studs, use eight #14 or $^{1}/_{4}$" x $1^{1}/_{2}$" tapping screws (38.12.5207) (four at each end of panel) secured through the anchor plates, floor channel and into the carpet or steel (Detail E)

B. For carpeted floors, use eight #10 x $^{5}/_{8}$" carpet gripper screws (52.2203) (four at each end of panel) secured through the anchor plates, floor channel and into the carpet or steel (Detail F).

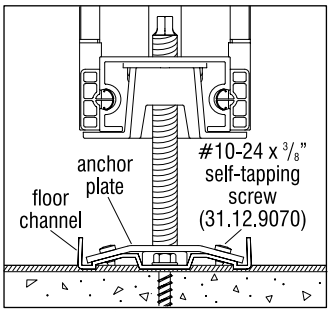
C. For concrete or wood floors, drill four $^{9}/_{64}$"pilots through the anchor plates at each end of the panel and floor channel. Secure using eight #10-24 x $^{3}/_{8}$" self-tapping screws (31.12.9070), four at each end (Detail G).



Detail E - Steel Stud



Detail F - Carpet



Detail G - Concrete or Wood Floor (concrete shown)

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Evoke Wall - Panel Installation (cont.)

22. Once all Evoke panel frames are installed to the super structure, the previously removed panel shells can be re-attached.
Note: If panel has electrical specified, leave the panel shell off for now.

23. To install each panel shell to a frame assembly, position the panel shell squarely against the frame assembly, aligning the mushroom connectors at the perimeter of the panel shell with the corresponding mushroom cavities around the panel frame. Then firmly press around the panel shell to fully seat each mushroom connector into it's cavity (Figures 9 & 10).

24. Measure between the posts to determine the size the base trim should be cut to and cut base trim to size (Figures 9 & 10).

25. To install base trim, position the bottom, base trim lip over the edge of the floor channel and press down on the base trim so it sits slightly into the floor channel and flush against the panel shell (Figure 10). Using a base trim installation block (or "cheeseblock") and hammer, position the block over the top of the base trim and tap down on the block/trim to seat the trim into the channel. Work carefully along the entire length of the base trim until it is fully seated and uniform (Figures 9 & 10).

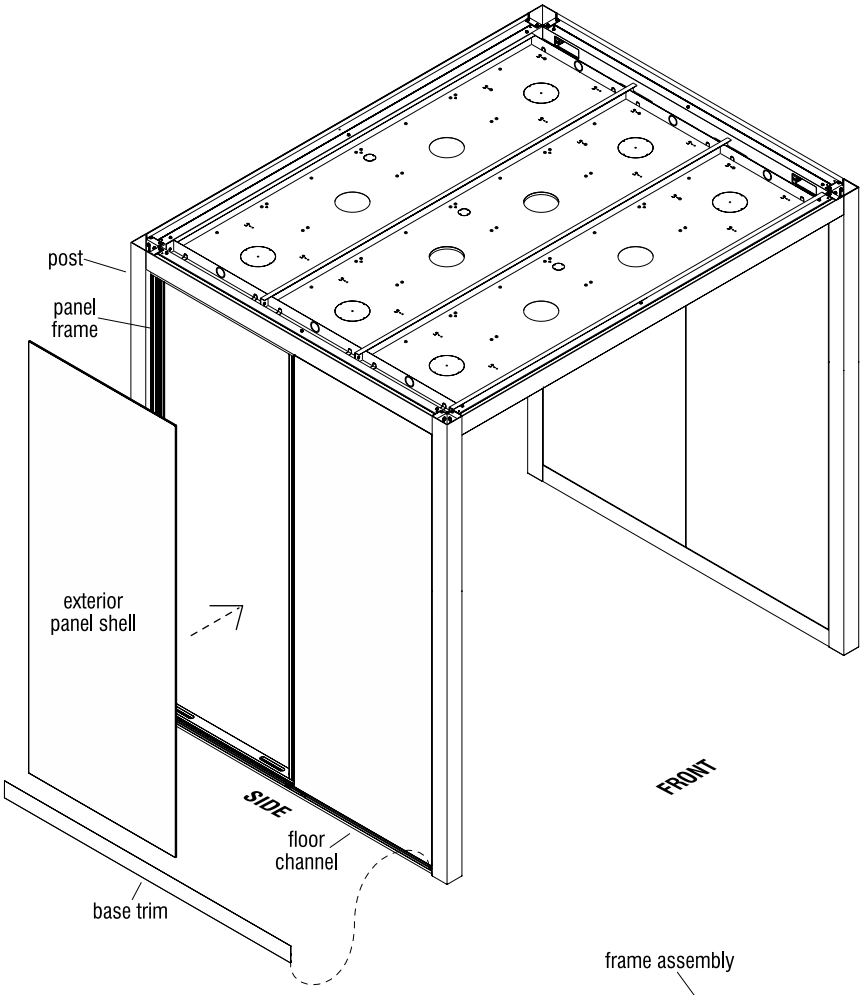


Figure 9

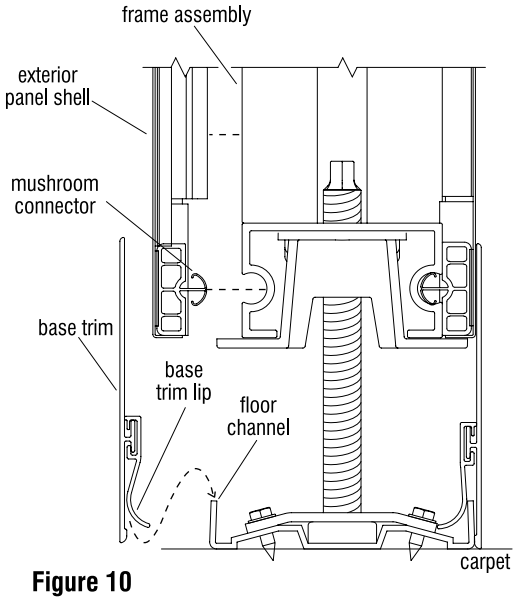


Figure 10

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

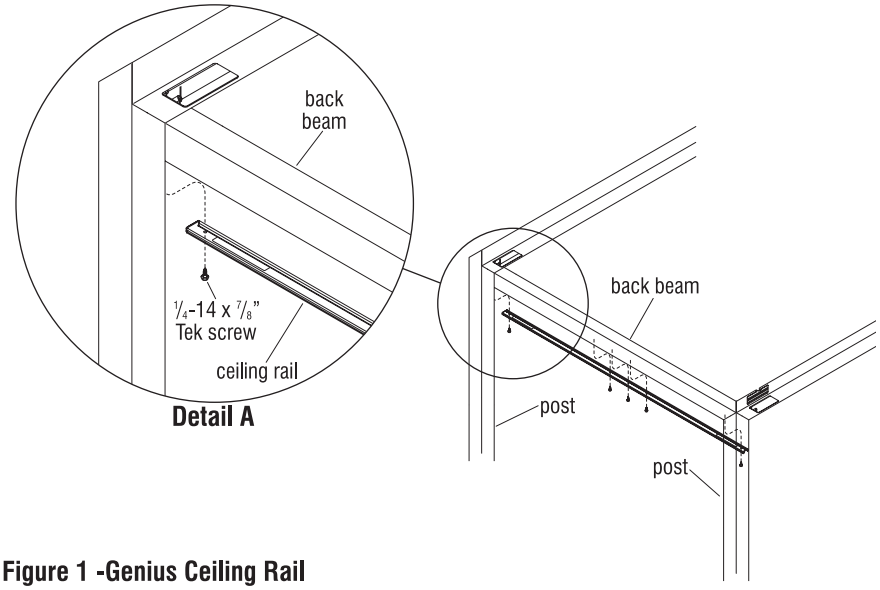


Figure 1 -Genius Ceiling Rail

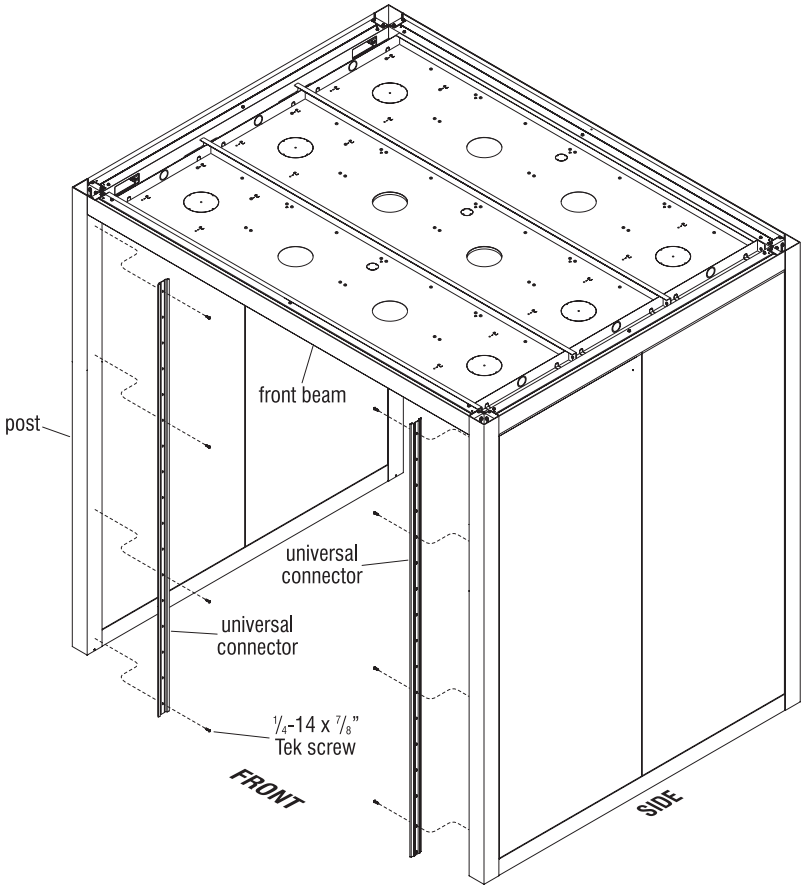


Figure 2 -Genius Universal Connector

Genius Wall - Front Panel with Hydraulic Hinge Door Installation

Note: Genius panel(s) (with a door) always install to the super structure at the front location. Genius panels can install to a back wall location if specified, and are installed as instructed in the following pages 53 through 57.

1. To install a ceiling rail, first determine which pre-sized ceiling rail is required based on beam width between the posts (Figure 1).
2. Position the pre-sized ceiling rail up under the center of the beam, between posts. Align and center the ceiling rail at the underside of the beam, and install the ceiling rail to the beam using $^1/_4$-14 x $^7/_8$" Tek screws provided through each ceiling rail mounting hole (Figure 1 & Detail A).
3. To install universal connectors to each super structure post, first measure from the underside of the front beam, down to the floor at each post, then cut each universal connector to that measurement (Figure 2).
4. One at a time at each side, perfectly center each universal connector to the side of the front wall post where the Genius panel will join to it and secure each universal connector to the post using four evenly spaced $^1/_4$-14 x $^7/_8$" Tek screws as illustrated (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

Note: To save time and space, stage all Genius panel frames into sequence. If possible, do this as panels are unloaded from the crating, eliminating double handling and potential damage.

Important: The ceiling rail must be installed to the front beam and the universal connectors installed to the posts as instructed on page 45 before moving panel frames into position.

5. With the assistance of a second person, position the specified Genius panel under the ceiling rail and align it tight to the appropriate universal connector on the post (Figure 3).

6. With a second person holding the panel frame upright and secure, locate the bolts of the bottom adjustment glides. Use a ¾" wrench or pliers, and a little at a time on each glide, evenly adjust the panel height up to nest the top of the panel frame into the ceiling rail. Ensure that the panel frame is adjusted up level and plumb (Figure 4).

   Note: Floor type at installation location will determine which floor anchor to use for the floor channel. See page 55, Details A, B & C.

   Note: If no other front wall panel frame is specified, go now to page 47 to begin doorway installation.

7. Once the panel frame is up, nested secure in the ceiling rail level and plumb, the next panel (if specified) can be installed following the above steps 5 & 6. Visually inspect that panel frames are plumb to each other and to the super structure posts. Assure that about $^{1}/_{16}$" gap is left between panels for connectors, and adjust if needed. Figure 4 shows the maximum height adjustment.

8. Once panels are in place and height is adjusted, floor anchors are required to secure the panel floor channel in place. Refer to page 55, Details A, B & C to determine the appropriate anchor requirements, then install the floor channel using anchors (Figure 3 and page 55, Details A, B & C).

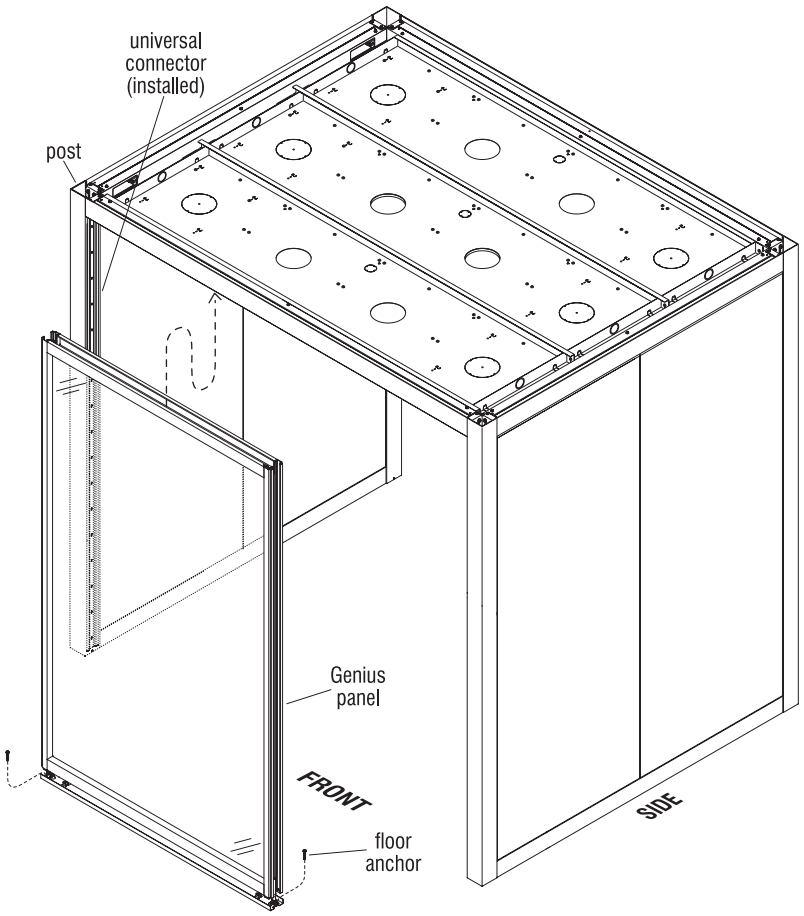


Figure 3 - Genius Panel Installation

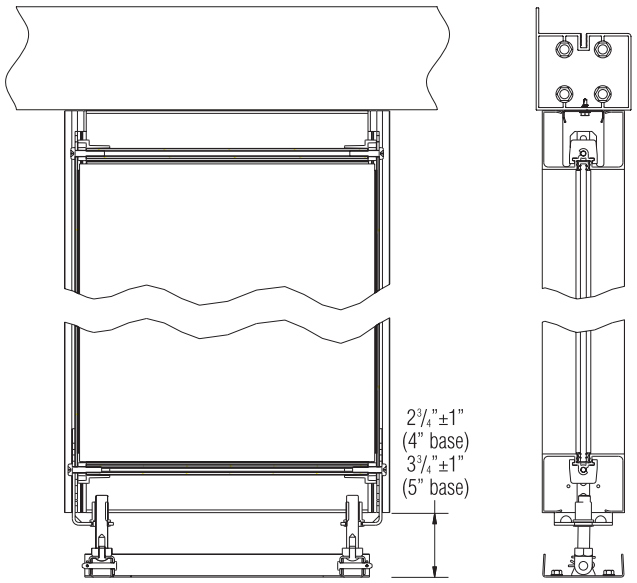


Figure 4 - Genius Panel Height Adjustment

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

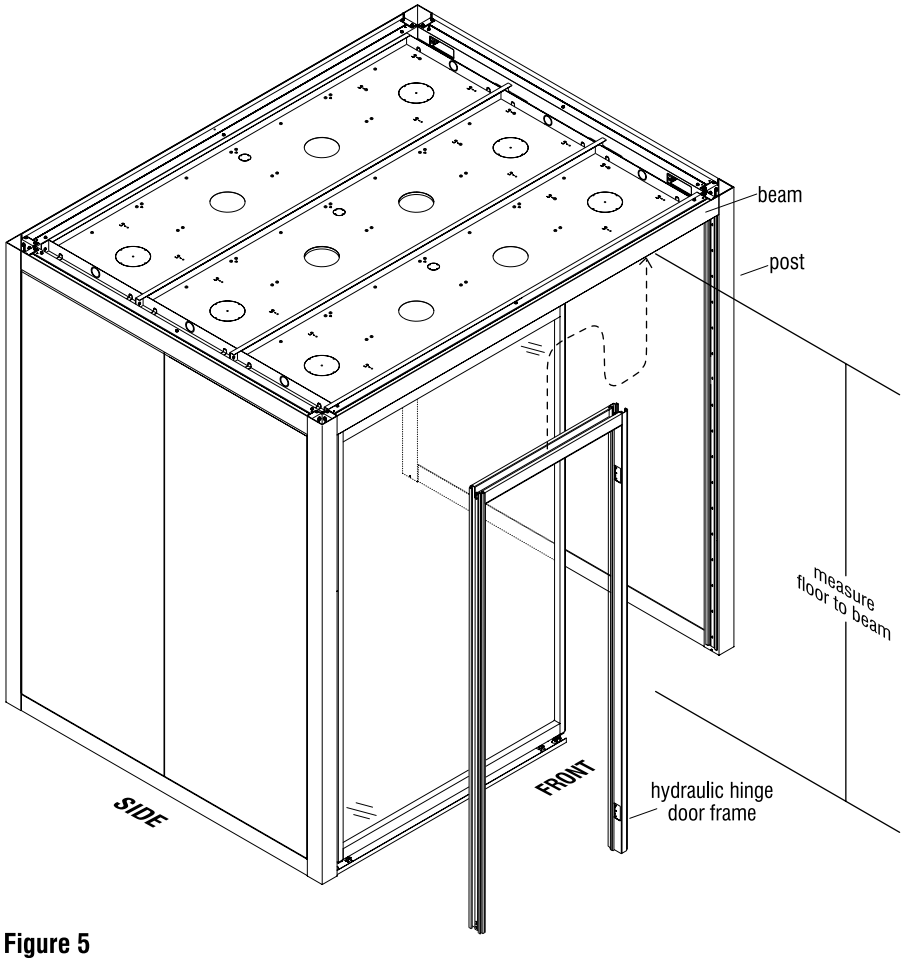
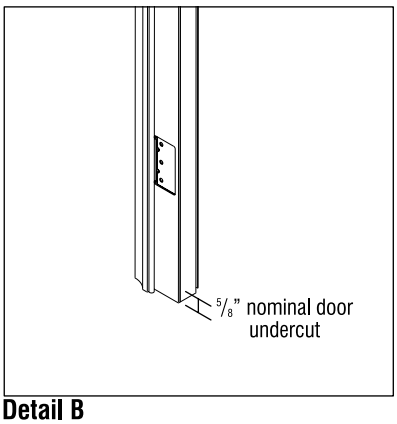


Figure 5



Detail B

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

9. The hydraulic hinge door frame must be cut to height on site, making allowances for a $^5/_8$" undercut of the installed door (Detail B). To properly cut the door frame to size at each side, take measurements from the floor, up to the underside of the beam at each post and panel frame location where the sides of the door frame will install. Mark and cut the door frame to those measurements (Figure 5).

10. With assistance of a second person, position the hydraulic hinge door frame into position under the ceiling rail. Hold the door frame upright and secure, (accounting for a $^5/_8$" undercut of the installed door) and ensure that the frame is properly plumb (Figure 5).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

Important: The Genius panel frame joins to the door frame (panel-to-door frame) using a seamless panel connector. Genius panels join to corner posts (panel-to-post) using flush panel connectors, and in situations with more than one Genius panel on a front wall, the panel-to-panel connection uses a seamless panel connector. All panel connector types install to both inside and outside of the super structure (Figures 6 & 7).

Note: Both the seamless panel connectors and the flush panel connectors install in a similar manner. See figures 6 & 7 to determine the correct location for both types of panel connectors for your super structure layout.

11. Before installing any flush, or seamless panel connector, first assure that the panel frame to door frame are plumb to each other and to the corner posts. Also assure that a $^{1}/_{16}$" gap is between each panel-to-door frame connector and that the same $^{1}/_{16}$" gap is between each panel-to-post connector (Figures 6 & 7).

12. Beginning at the top of any panel-to-door frame, or panel-to-post to be joined, insert the appropriate panel connector into the gap and use a thumb, or nylon block with mallet and work the panel connector in carefully and evenly from the top to the bottom. Install a panel connector to the inside and outside of each location (Figures 6 & 7).

Note: It is only recommended to use a mallet with nylon block if the connector cannot be installed by hand.

13. Visually inspect that all inside and outside connections to the front wall are installed evenly. For flush connectors, ensure that each connector is installed flush to the surface of the glass panel(s) and/or the door frame and corner post.

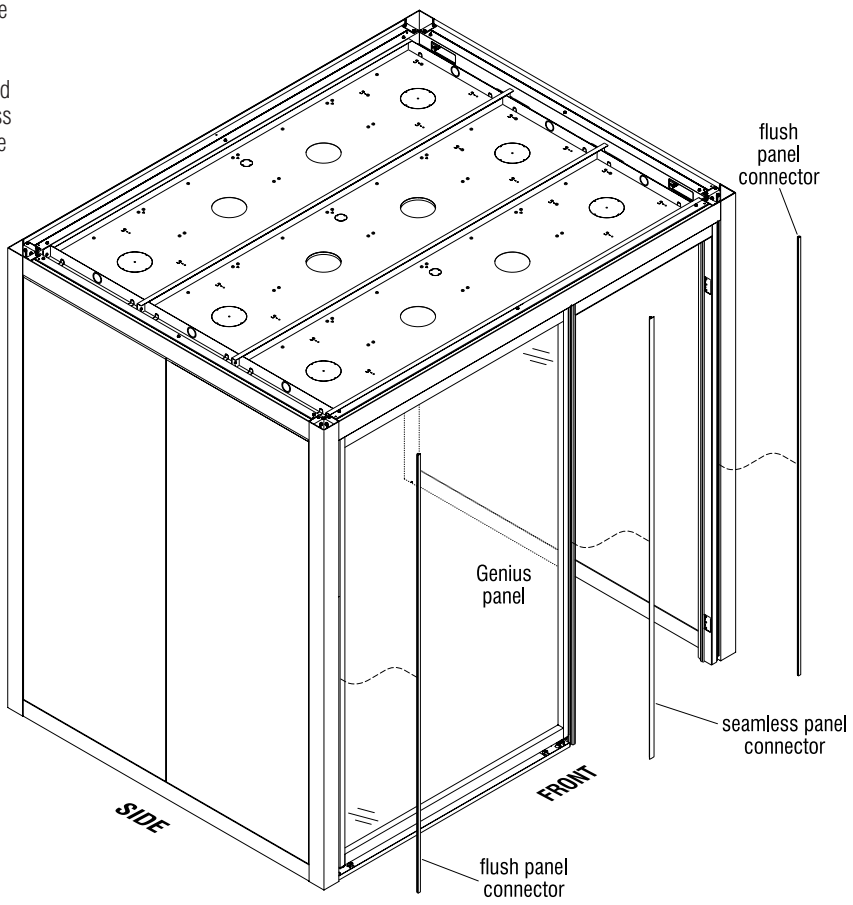


Figure 6

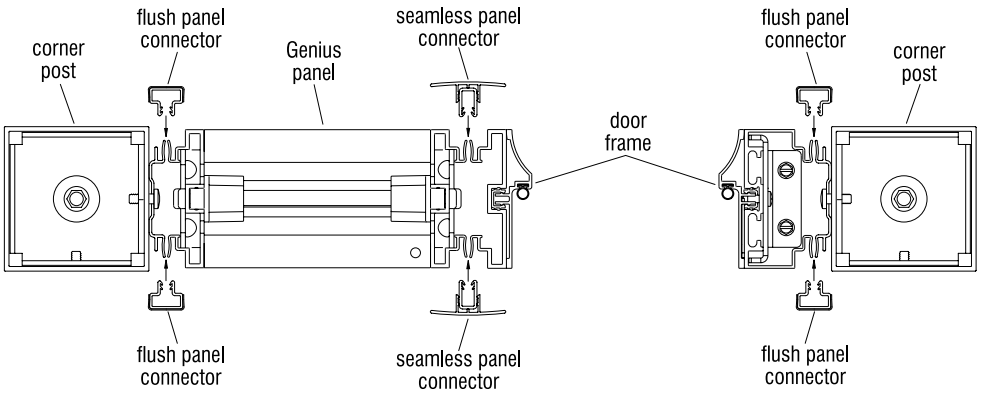


Figure 7

CAUTION

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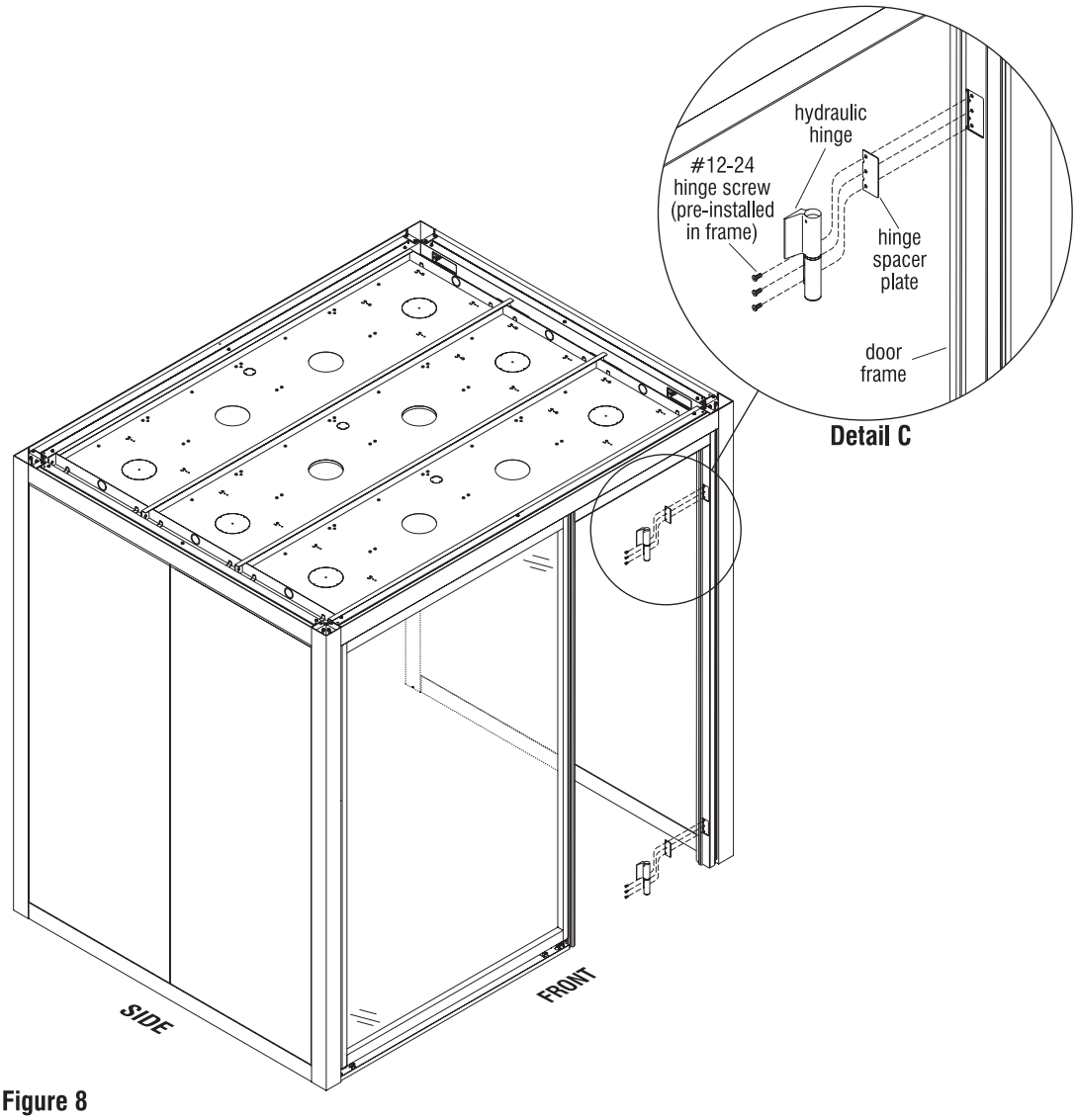


Figure 8

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

14. Begin door leaf to door frame installation by first removing the #12-24 hinge screws which come pre installed into the door frame. Next, follow the hinge manufacturer's instructions included to install the hydraulic hinge over a hinge spacer using the #12-24 hinge screws provided into the pre-drilled screw holes in the door frame (Figure 8 & Detail C).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

15. With the help of another person (one person inside the super structure, and one person working outside), divide up the inside hardware for installation to the inside person, and the outside hinge installation hardware to the person outside (Figure 9 & Detail D).

16. Carefully position the glass door leaf into the door frame as illustrated. Align the hinge mounting holes with the mounting holes in the door leaf and use a block under the center of the door leaf to aid in holding up for alignment. With door leaf holes aligned to the hinge mounting holes, from the outside add a pair of hinge bushings into the glass and hold a spacer in place at each hinge mounting location. At inside the super structure and at each top and bottom hinge location, place an attachment plate over the door leaf mounting holes, then loosely twist in the attachment screws through the attachment plate, through the hinge bushings in the glass leaf, through the spacer and into the hydraulic hinge installed on the door frame. Assure alignment of the door leaf to the hinges, then tighten screws (Figure 9 & Detail D).

17. At inside the door leaf, at each hinge mounting location, press on the cover plate onto the attachment plate per the manufacturer's instructions (Figure 9 & Detail D).

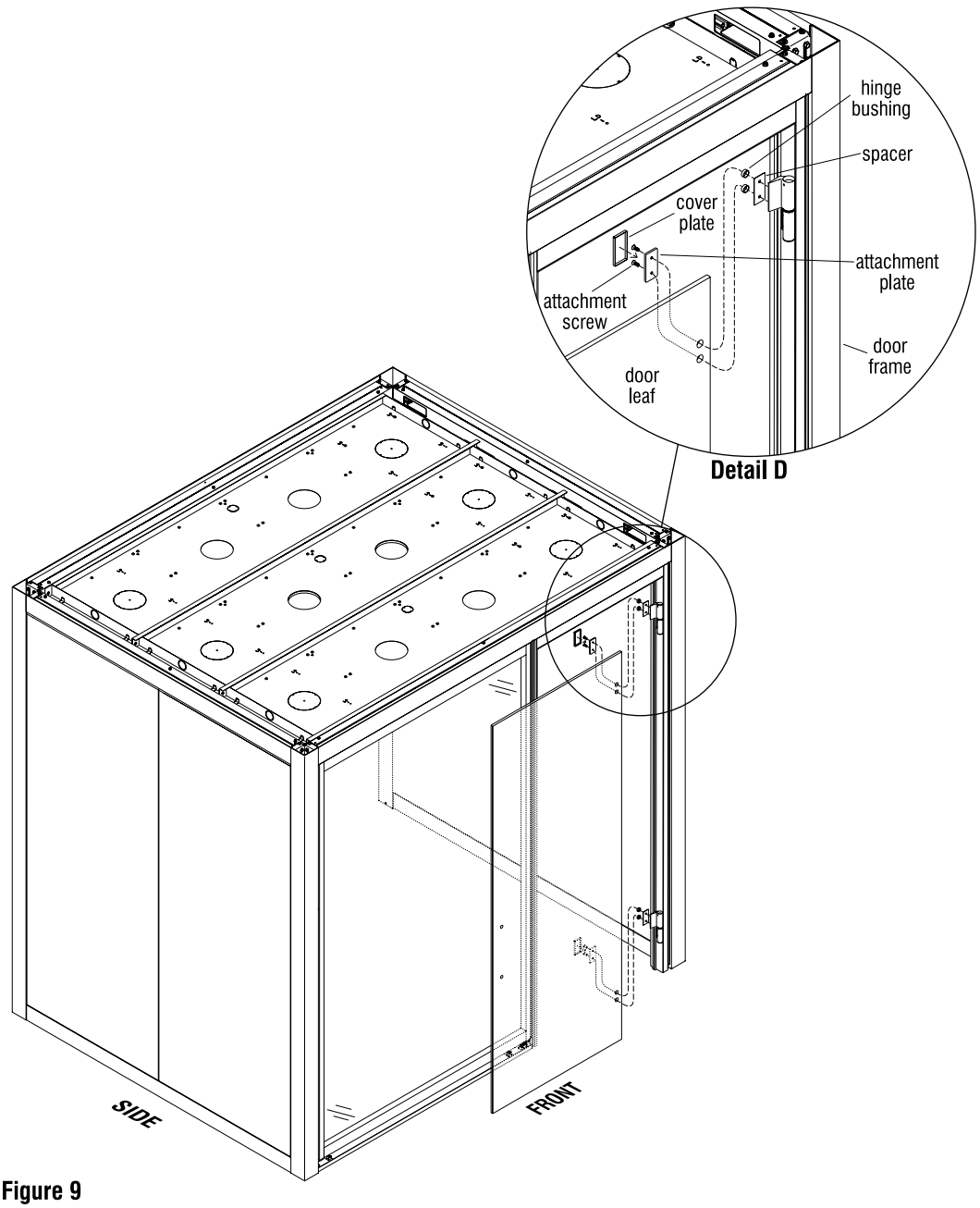


Figure 9

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

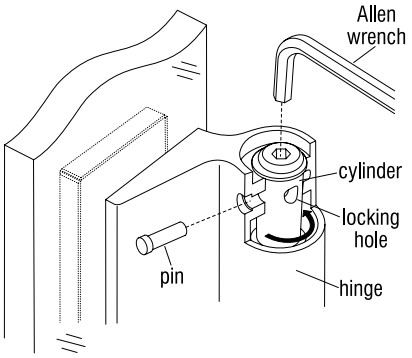


Figure 10

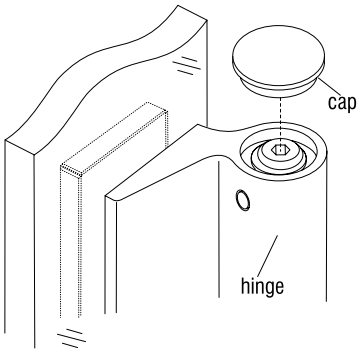


Figure 11

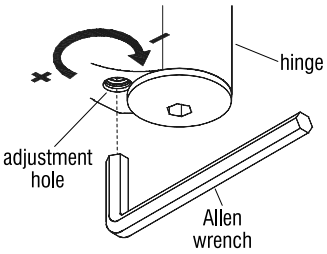
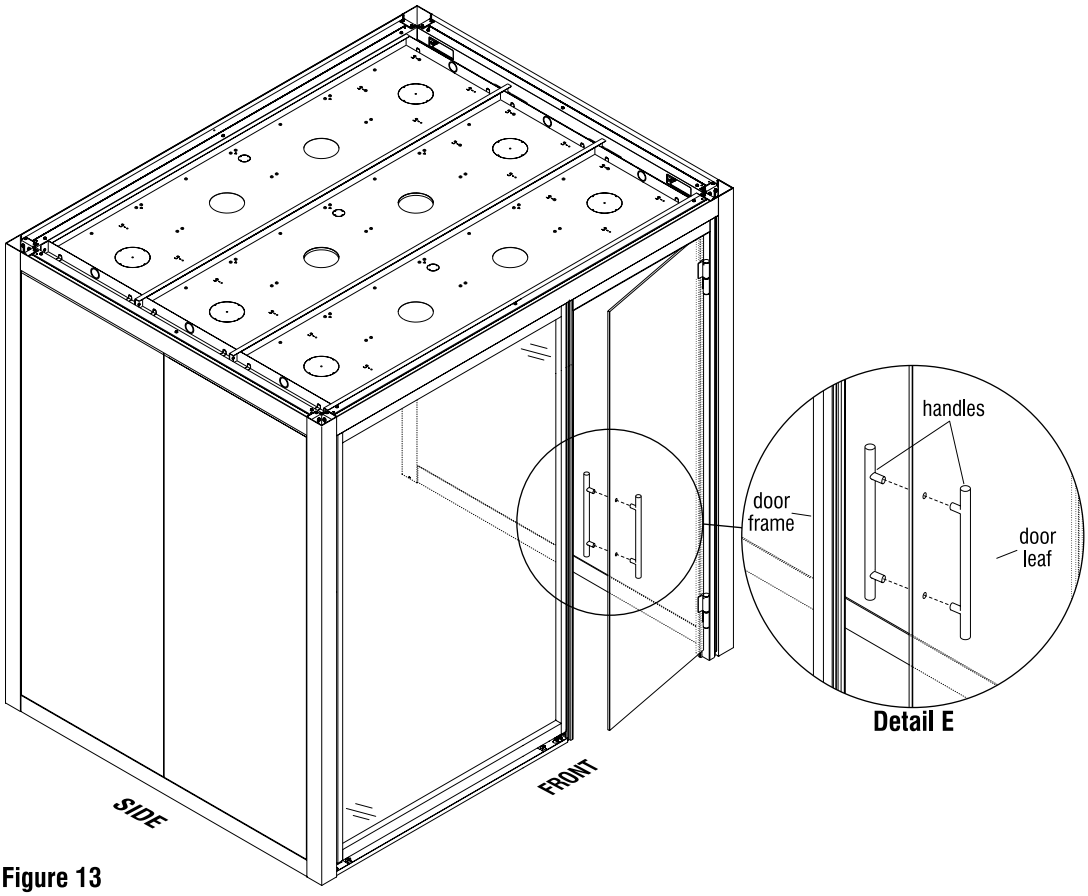


Figure 12



Detail E

Figure 13

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

18. With door leaf closed, insert Allen wrench into bolt head located in the open hole at the top of the upper hinge. Turn the wrench counter clockwise so that the locking hole lines up with the open pin hole on the exterior of the hinge. Hold wrench in position and insert pin into hole to lock in place. Do the same process for the lower hinge on the door leaf (Figure 10).

19. With hinge pins set in place, install the caps onto the top of both hinges. Get the caps started in place and lightly tap in with a soft mallet, taking care to not damage the surface (Figure 11).

20. Closing speed of the door can be adjusted on the underside of the hinge using the adjustment hole and a proper size Allen wrench. Turning counter clockwise increases the speed while turning clockwise decreases the speed (Figure 12).

21. With door leaf held open, install the door handle to the door leaf per the manufacturer's instructions (Figure 13 & Detail E).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Front Panel with Hydraulic Hinge Door Installation (cont.)

22. Next, the trim cover and drop seal extrusion will be installed to the bottom of the door leaf. Locate the trim cover which will assemble to the inside, bottom of the door, and remove the release backing sheet to expose the adhesive strip. Align the bottom lip of the trim cover with the underside edge of the door leaf (Detail G), then press the trim cover onto the bottom of the door. Press all along the length of the trim cover, over the adhesive to help seal the tape (Figure 14 & Detail G).

23. Locate the drop seal extrusion which will assemble to the outside, bottom of the door, and remove the release backing sheet to expose the adhesive strip. Align the bottom lip of the drop seal with the underside edge of the door leaf (Detail G), then press the drop seal onto the bottom of the door. Press all along the length of the drop seal, over the adhesive to help seal the tape (Figure 14 & Detail G).

24. The drop seal speed can be adjusted by pulling part of the drop seal speed adjuster out, from the right-hand end of the drop seal at the bottom of the door leaf. Pull the drop seal portion of the adjuster out, leaving the adjustment screw assembly portion in, then twist the drop seal release end either clock-wise, or counter-clock-wise to adjust drop seal speed, then press the unit back in. Refer to the manufacturer's instructions for more specific information (Figure 14 & Detail F).

25. Once the drop seal speed adjuster is pressed back into the drop seal, press in the left-hand top end cap and bottom left end cap back into the left end of the drop seal as illustrated. Also, press in the right-hand top end cap to the right side to of the drop seal extrusion (Figure 14).

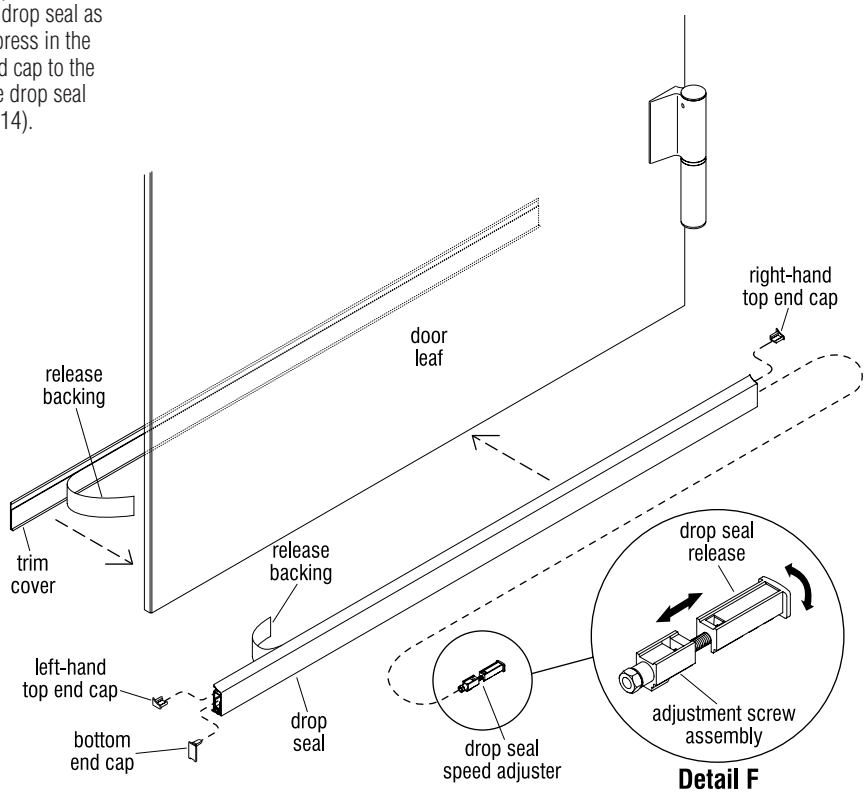
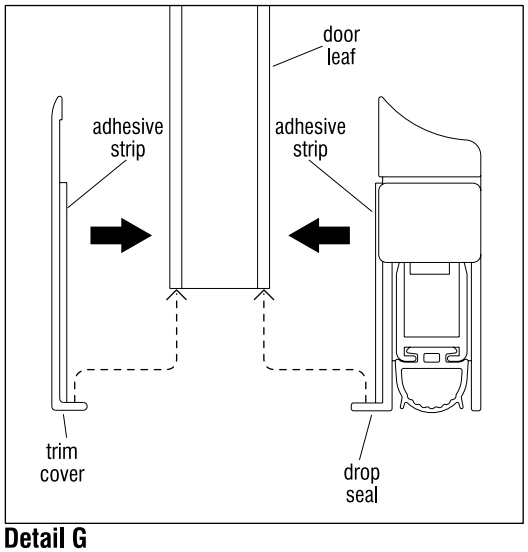


Figure 14



Detail G

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

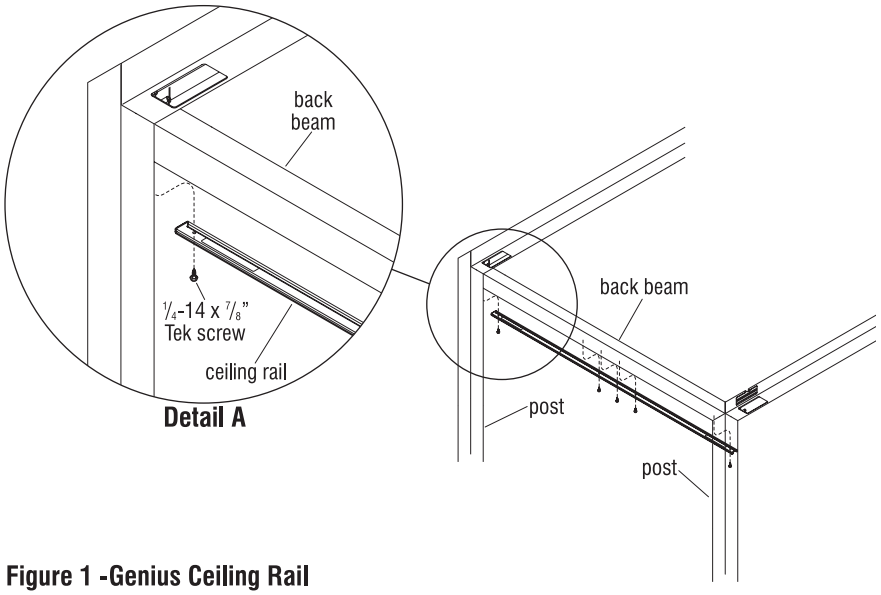


Figure 1 -Genius Ceiling Rail

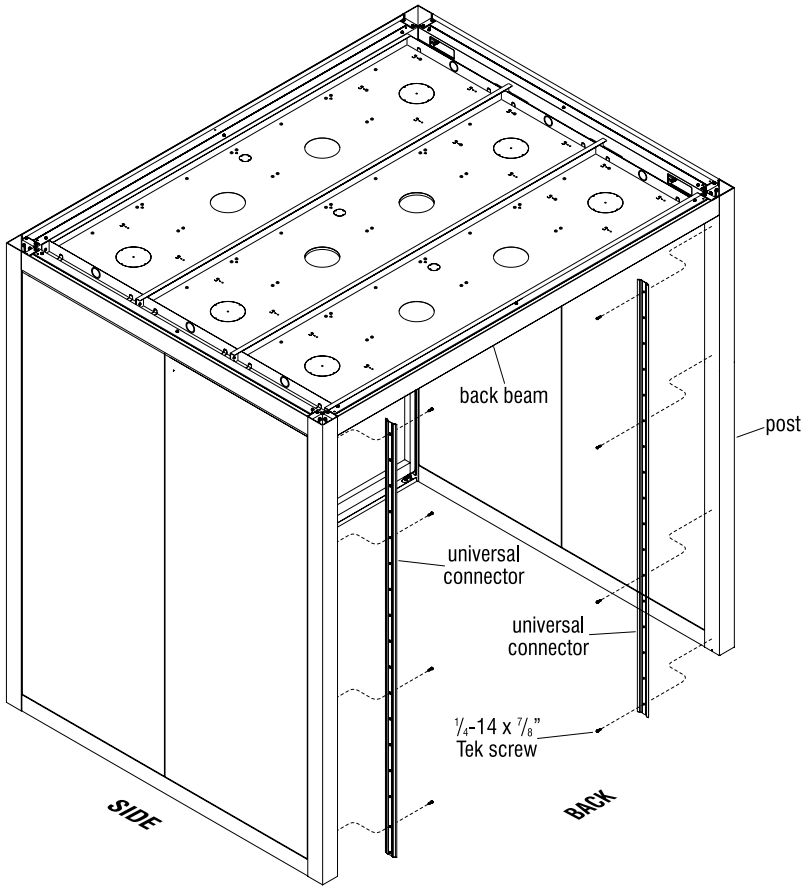


Figure 2 -Genius Universal Connector

Genius Wall - Back Panel Installation

Note: Genius panel(s) (with a door) always install to the super structure at the front location. Genius panels can install to a back wall location if specified, and are installed as instructed in the following pages.

1. To install a ceiling rail, first determine which pre-sized ceiling rail is required based on beam width between the posts (Figure 1).

2. Position the pre-sized ceiling rail up under the center of the beam, between posts. Align and center the ceiling rail at the underside of the beam, and install the ceiling rail to the beam using $^1/_4$-14 x $^7/_8$" Tek screws provided through each ceiling rail mounting hole (Figure 1 & Detail A).

3. To install universal connectors to each super structure post, first measure from the underside of the back beam, down to the floor at each post, then cut each universal connector to that measurement (Figure 2).

4. One at a time, perfectly center each universal connector to the side of the back wall post where the Genius panel will join to it and secure the universal connector to the post using four evenly spaced $^1/_4$-14 x $^7/_8$" Tek screws as illustrated (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Back Panel Installation (cont.)

Note: To save time and space, stage all Genius panel frames into sequence. If possible, do this as panels are unloaded from the crating, eliminating double handling and potential damage.

Important: The ceiling rail must be installed to the back beam and the universal connectors installed to the posts as instructed on page 55 before moving panel frames into position.

5. With the assistance of a second person, position one panel to its specified location under the ceiling rail and align it tight to the appropriate universal connector on the post (Figure 3).

6. With a second person holding the panel frame upright and secure, locate the bolts of the bottom adjustment glides. Use a ¾" wrench or pliers, and a little at a time on each glide, evenly adjust the panel height up to nest the top of the panel frame into the ceiling rail. Ensure that the panel frame is adjusted up level and plumb (Figure 4).

   Note: Floor type at installation location will determine which floor anchor to use for the floor channel. See page 55, Details A, B & C.

7. Once the first panel frame is up, nested secure in the ceiling rail level and plumb, the next panel can be installed following the above steps 5 & 6. Visually inspect that panel frames are plumb to each other and to the super structure posts. Assure that about 1/16" gap is left between panels for connectors, and adjust if needed. Figure 4 shows the maximum height adjustment.

8. Once panels are in place and height is adjusted, floor anchors are required to secure the panel floor channel in place. Refer to page 55, Details A, B & C to determine the appropriate anchor requirements, then install the floor channel using anchors (Figure 3 and page 55, Details A, B & C).

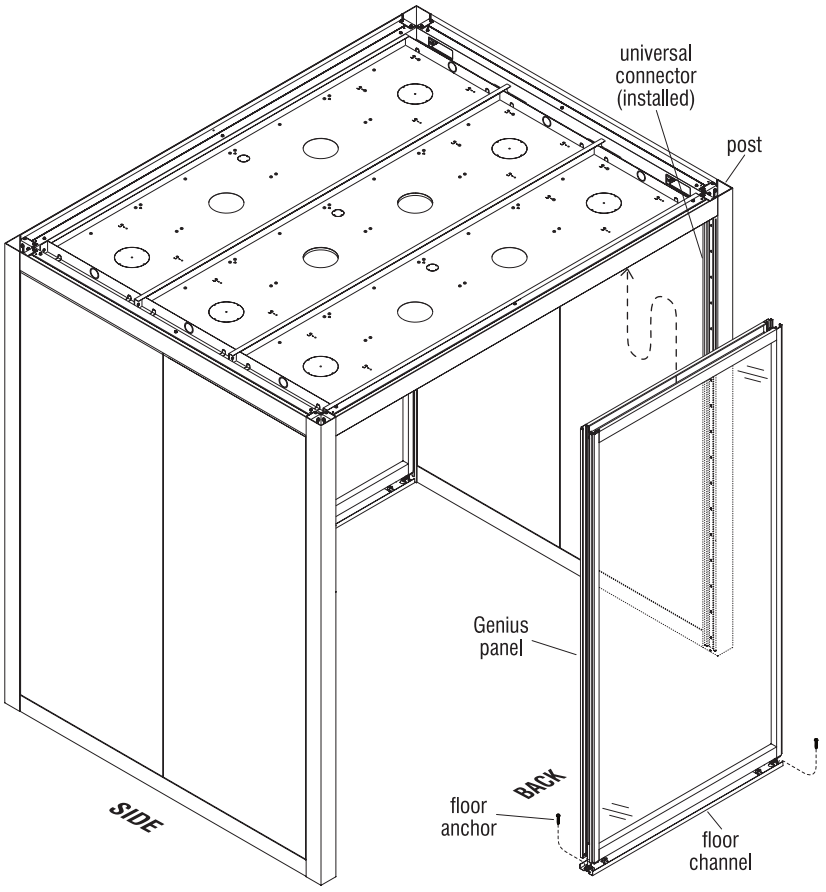


Figure 3 - Genius Panel Installation

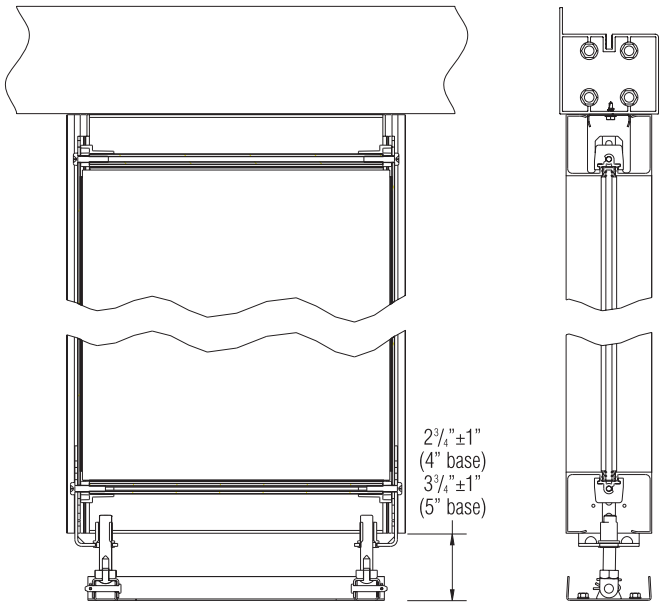
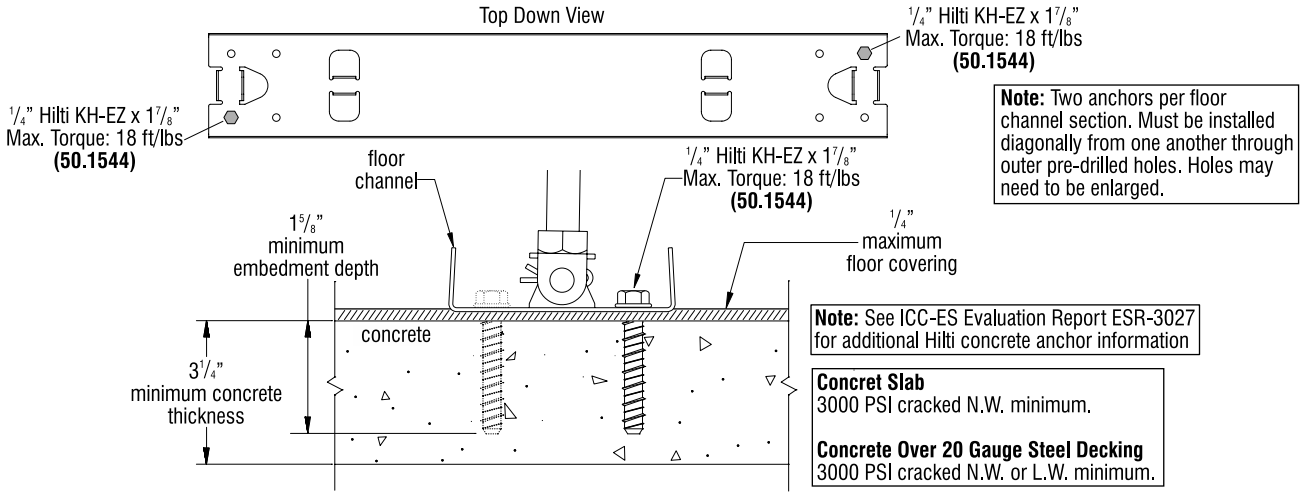


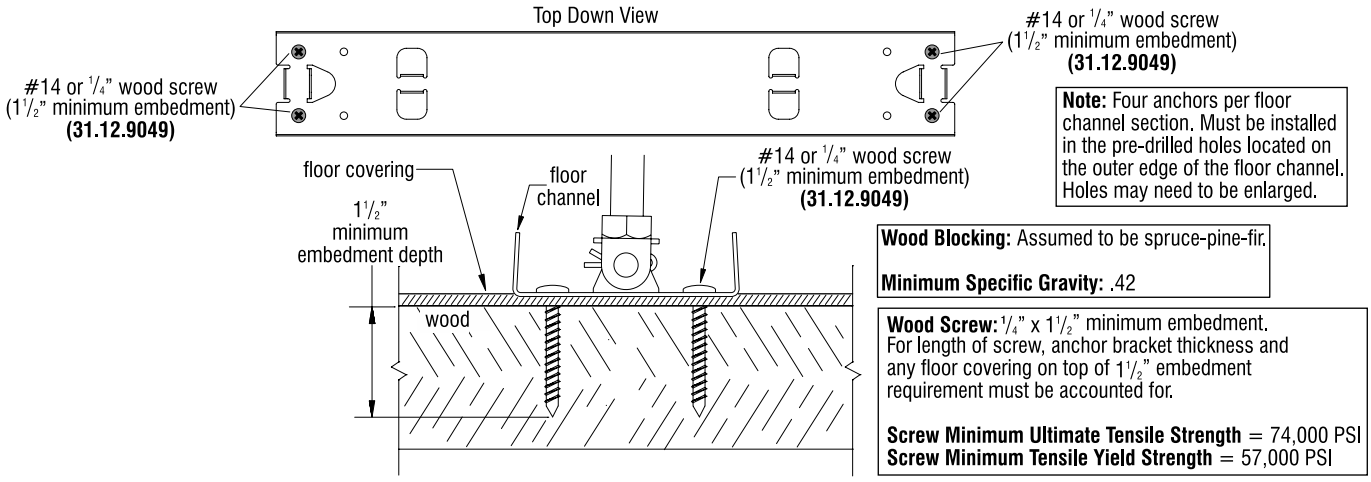
Figure 4 - Genius Panel Height Adjustment

CAUTION

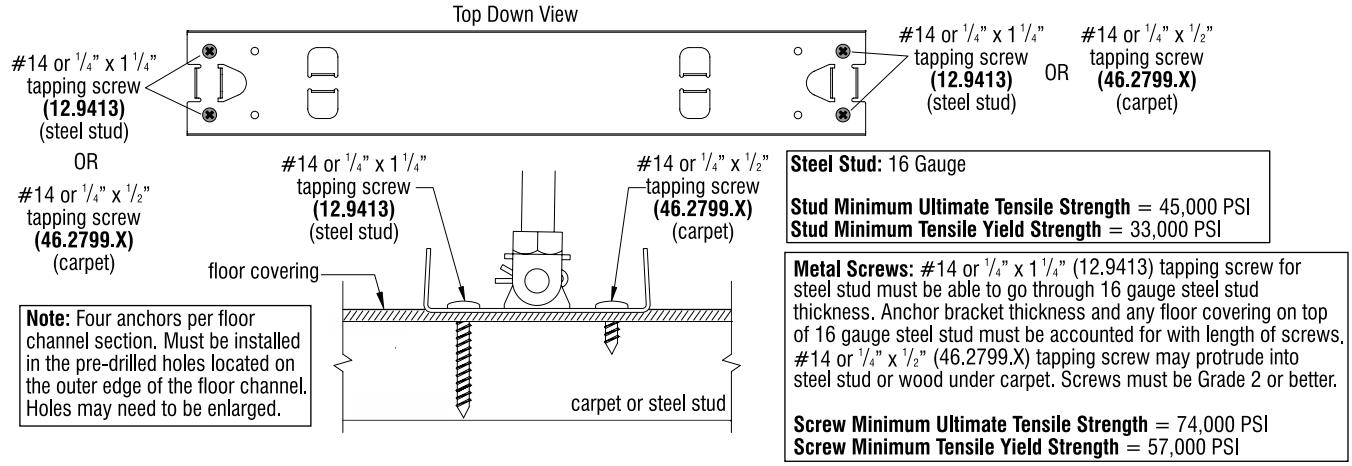
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail A - Genius Wall to Concrete Floor Anchor Specifications



Detail B - Genius Wall to Wood Floor Anchor Specifications



Detail C - Genius Wall to Carpet or Steel Stud Floor Anchor Specifications

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Genius Wall - Back Panel Installation (cont.)

Important: Genius panel frames are joined together (panel-to-panel) using a seamless panel connector. Genius panels join to corner posts (panel-to-post) using flush panel connectors, both types install both inside and outside of the super structure (Figures 5 & 6).

Note: Both the seamless panel connectors and the flush panel connectors install in a similar manner. See figures 5 & 6 to determine the correct location for both types of panel connectors for your super structure layout.

9. Before installing any flush, or seamless panel connector, first assure that the panel frames are plumb to each other and to the corner posts. Also assure that a $^{1}/_{16}$" gap is between each panel-to-panel frame connector and that the same $^{1}/_{16}$" gap is between each panel-to-post connector (Figures 5 & 6).

10. Beginning at the top of any panel-to-panel, or panel-to-post to be joined, insert the appropriate panel connector into the gap and use a thumb, or nylon block with mallet and work the panel connector in carefully and evenly from the top to the bottom. Install a panel connector to the inside and outside of each location (Figures 5 & 6).

Note: It is only recommended to use a mallet with nylon block if the connector cannot be installed by hand.

11. Visually inspect that all inside and outside connections to the front wall are installed evenly. For flush connectors, ensure that each connector is installed flush to the surface of the glass panel(s) and/or the door frame and corner post.

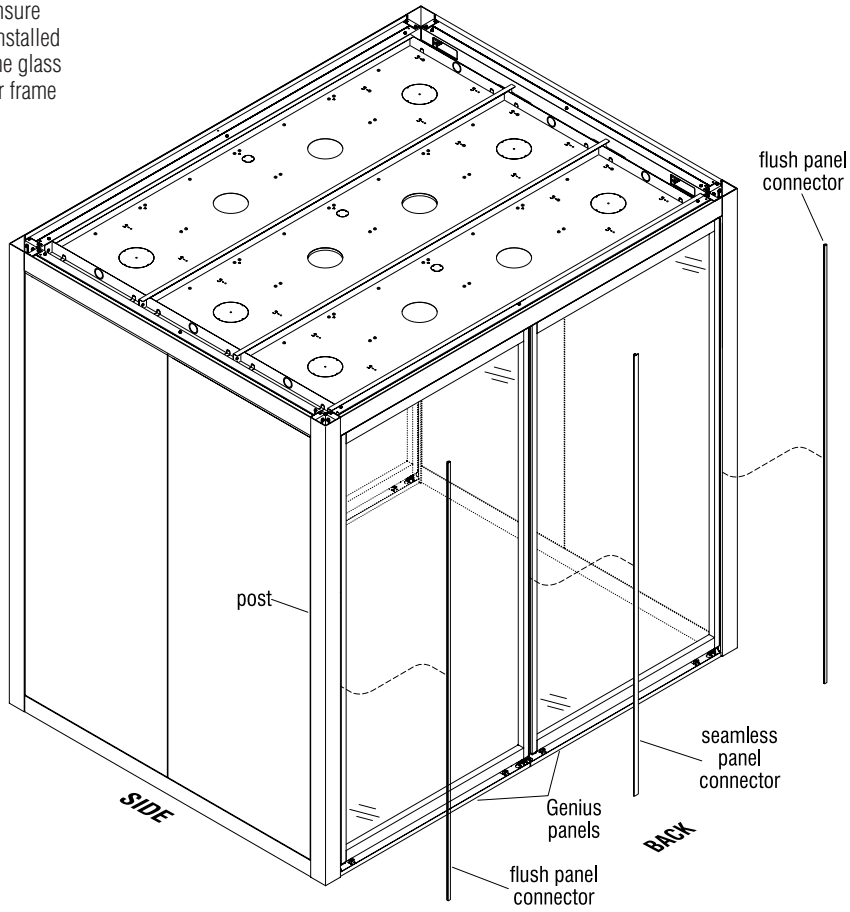


Figure 5 - Genius Flush Connector

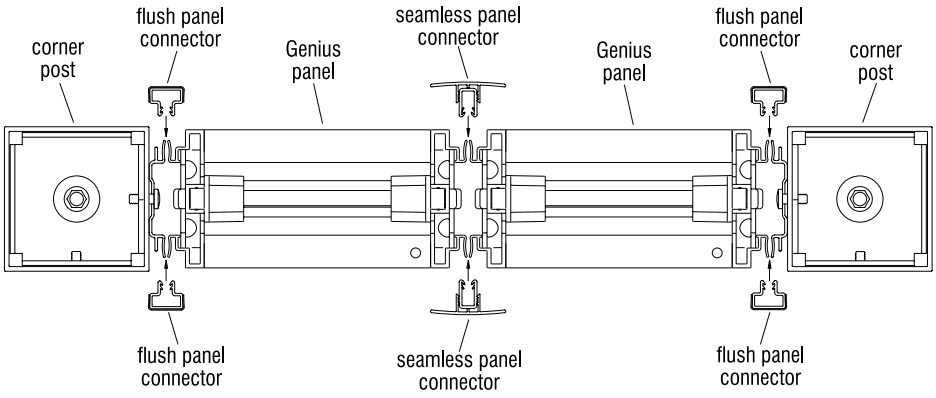


Figure 6 - Genius Panel Connectors

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

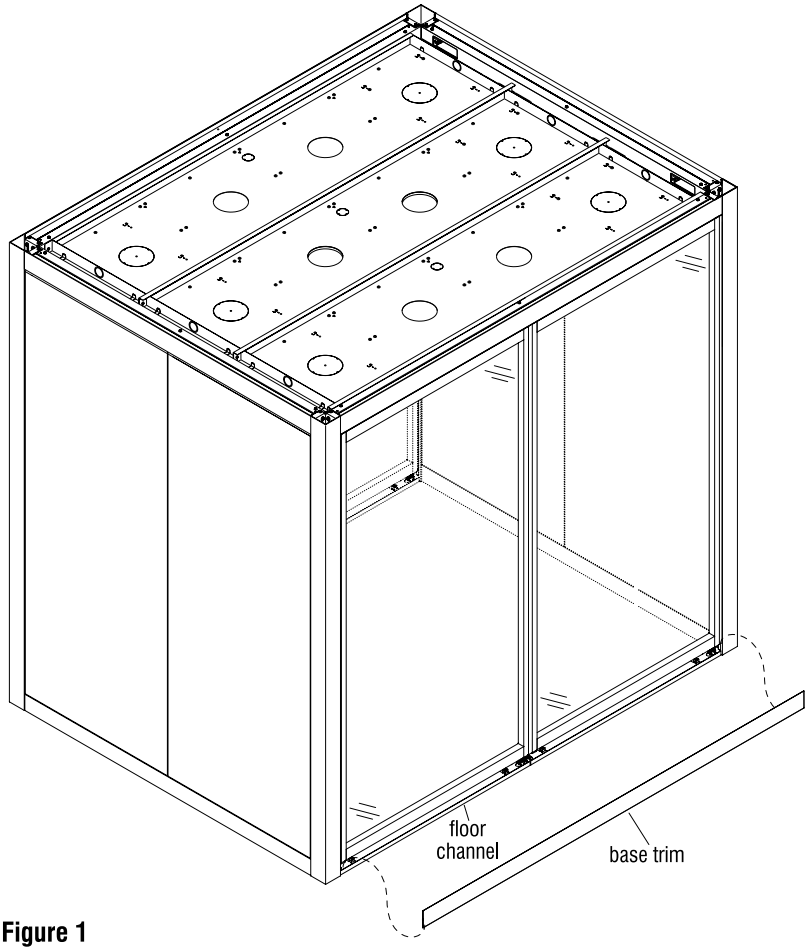
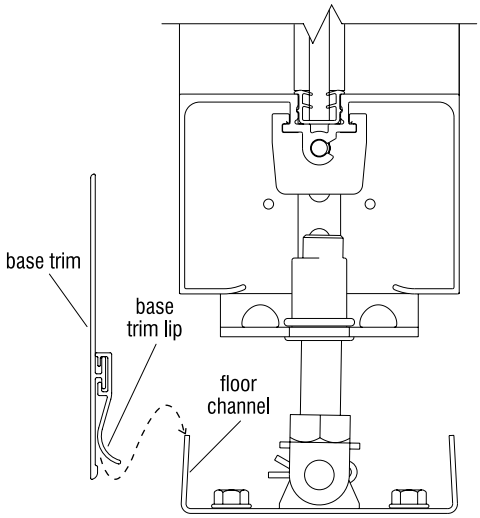


Figure 1



Detail A

Genius Wall - Base Trim Installation

1. Measure between the posts to determine the length the base trim should be cut to, then and cut base trim to size.

2. To install base trim, position the bottom, base trim lip over the edge of the floor channel and press down on the base trim so it sits slightly into the floor channel and flush against the panel shell (Figures 1 & Detail A). Using a base trim installation block (or "cheeseblock") and hammer, position the block over the top of the base trim and tap down on the block/trim to seat the trim into the channel. Work carefully along the entire length of the base trim until it is fully seated and uniform (Figure 1 & Detail A).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Overview - Evoke Wall Panels with Pre-Wired 8-Wire System to Conventional Electrical Boxes (conventional 8-wire multi-circuit cable with pre-wired receptacles)

Important: All building source power wiring must be performed by a certified electrician following all electrical codes at the job site. All mechanical connections of panels, as well as all modular 8-wire electrical connections must be made before any source power electrical connections may be performed.

Overview: Assembled Evoke Wall panels for WiggleRoom Super Structure containing pre-wired electrical ship from the factory to include a conventional electrical box installed. The electrical box houses a single duplex power outlet which is pre-wired to conduit (houses 3 wires for circuit 2 or circuit 3) with an 8-wire modular connector end. The conduit with connector end is to be pulled up, beyond the top of the panel, above the ceiling of the super structure to connect to the 8-wire system of the super structure (Figure 1).

Overview – WiggleRoom Super Structure 8-Wire Modular Power Distribution

Overview: Up to eight power wires (electrician supplied) may enter from the building source power and are wired into an electrician-supplied junction box on top of the super structure ceiling. The pig-tail end of the KI-supplied 8-wire power infeed is wired into the ceiling junction box, and the modular connector end of the power infeed connects to an 8-wire H-block. The Evoke panel mounted duplex power outlet is pre-wired to conduit with a modular connector end (circuit 2 or circuit 3) which plugs into the 8-wire H-block above ceiling level. If specified as optional, a second panel mounted duplex power outlet, pre-wired to conduit with a modular connector end (circuit 2 or circuit 3) plugs into a 10-foot long 8-wire power jumper, which plugs into the 8-wire H-block. The electrical control harness assembly (to power and control the lights and fans) has an 8-wire modular connector (circuit 1) which plugs into the 8-wire H-block as well (Figures 1 & 2).

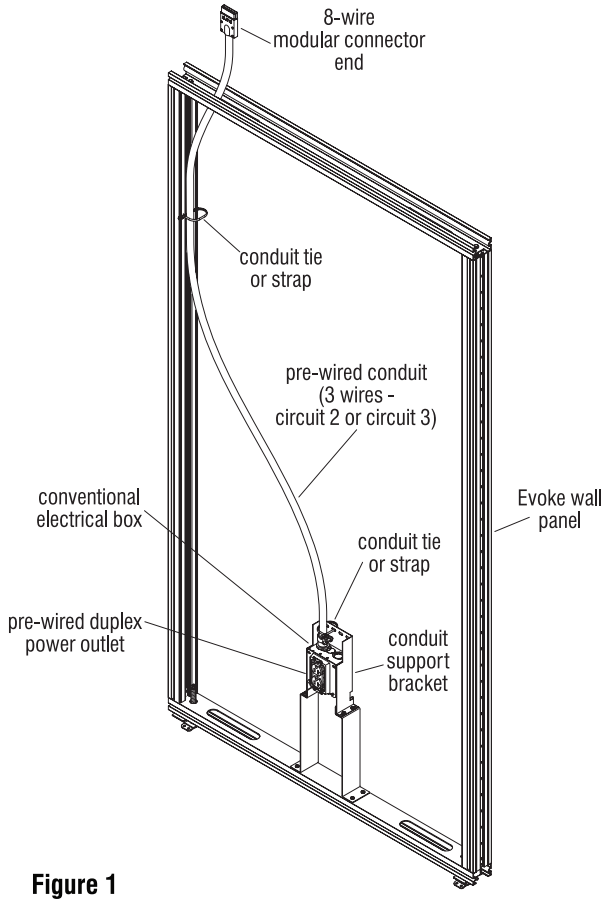


Figure 1

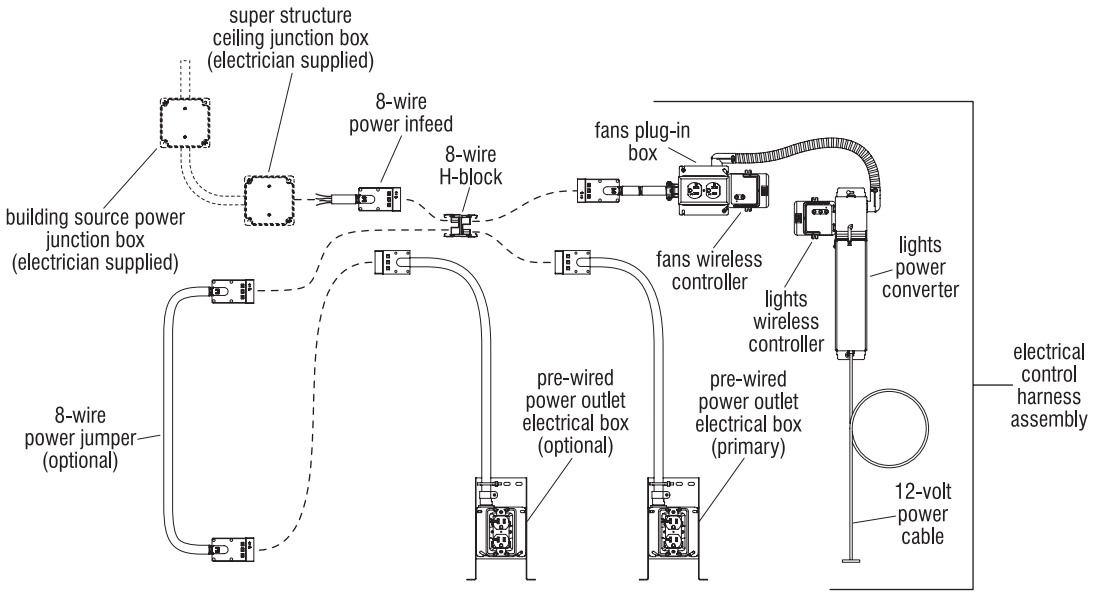
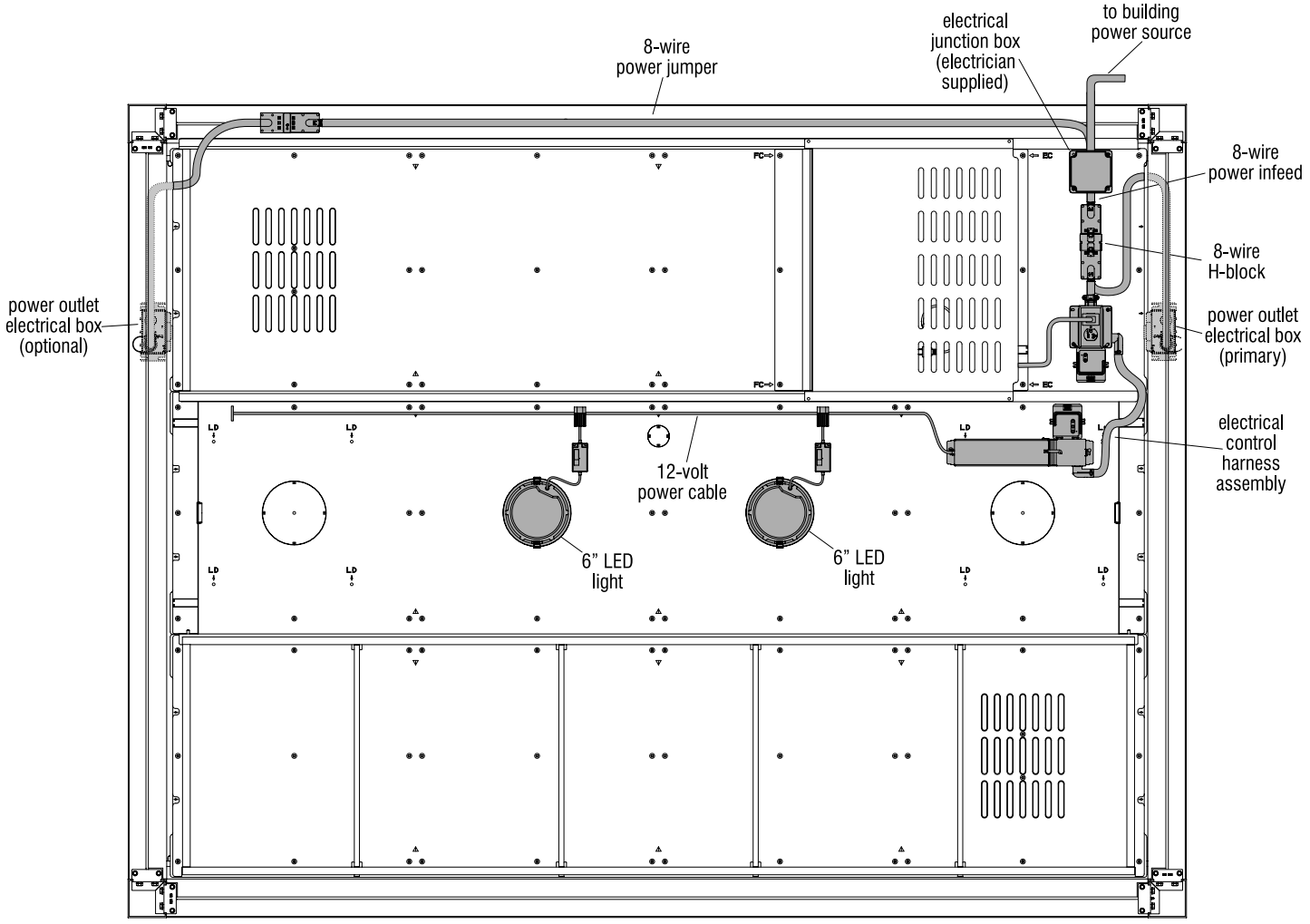


Figure 2 - 8-Wire Electrical Distribution

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



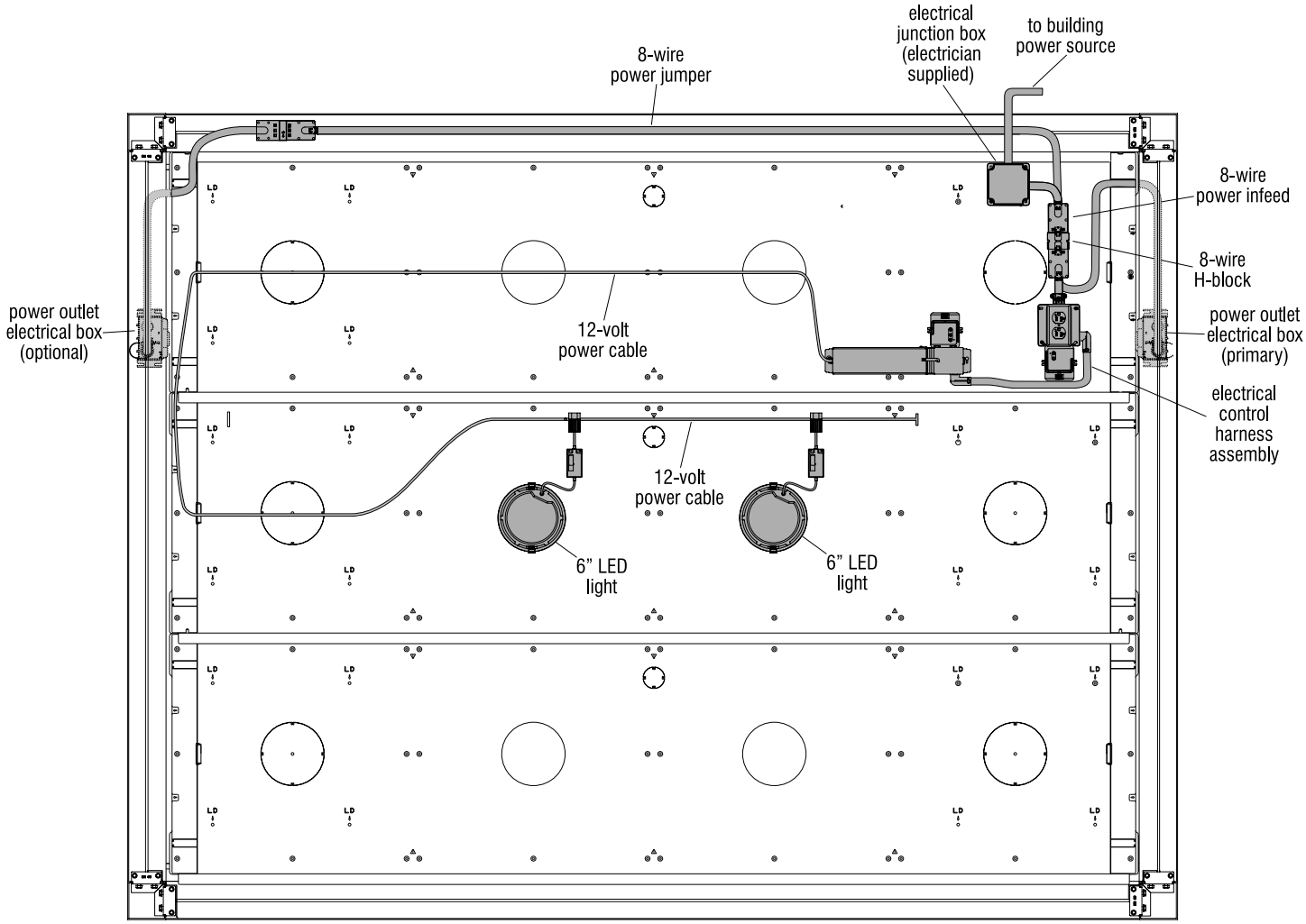
Fan Plank, Air Intake Plank & Light Plank Ceiling 8-Wire Electrical - Typical Layout

WiggleRoom Super Structure 8-Wire Electrical Layout Typicals

1. Pages 59 through 63 illustrate electrical routing on typical ceiling layouts. Some layouts may be left-hand or right-hand oriented, but the general routing will be the same as shown, except it will be mirrored or rotated.

CAUTION

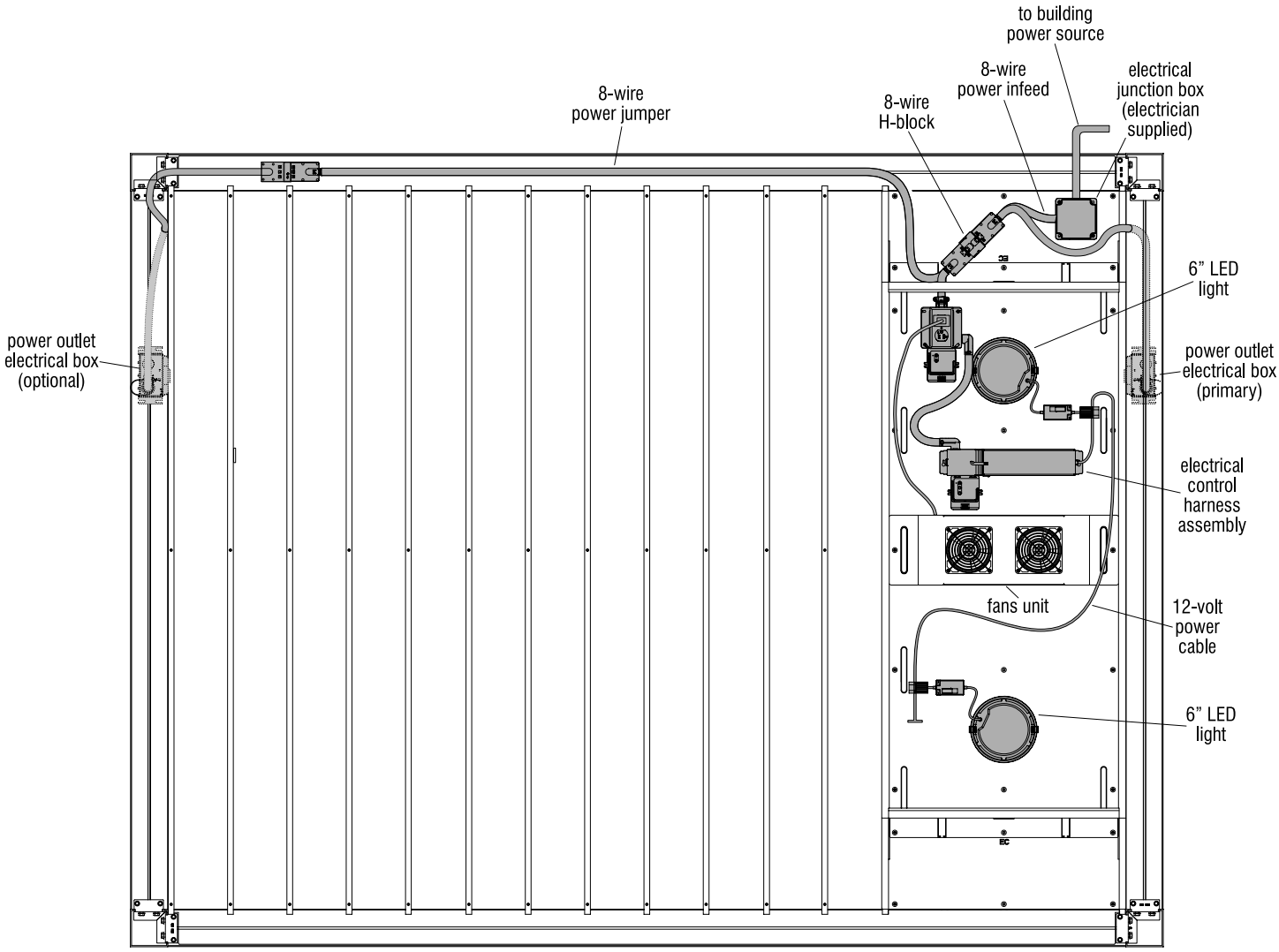
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Light Plank & Blank Plank Ceiling 8-Wire Electrical - Typical Layout

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

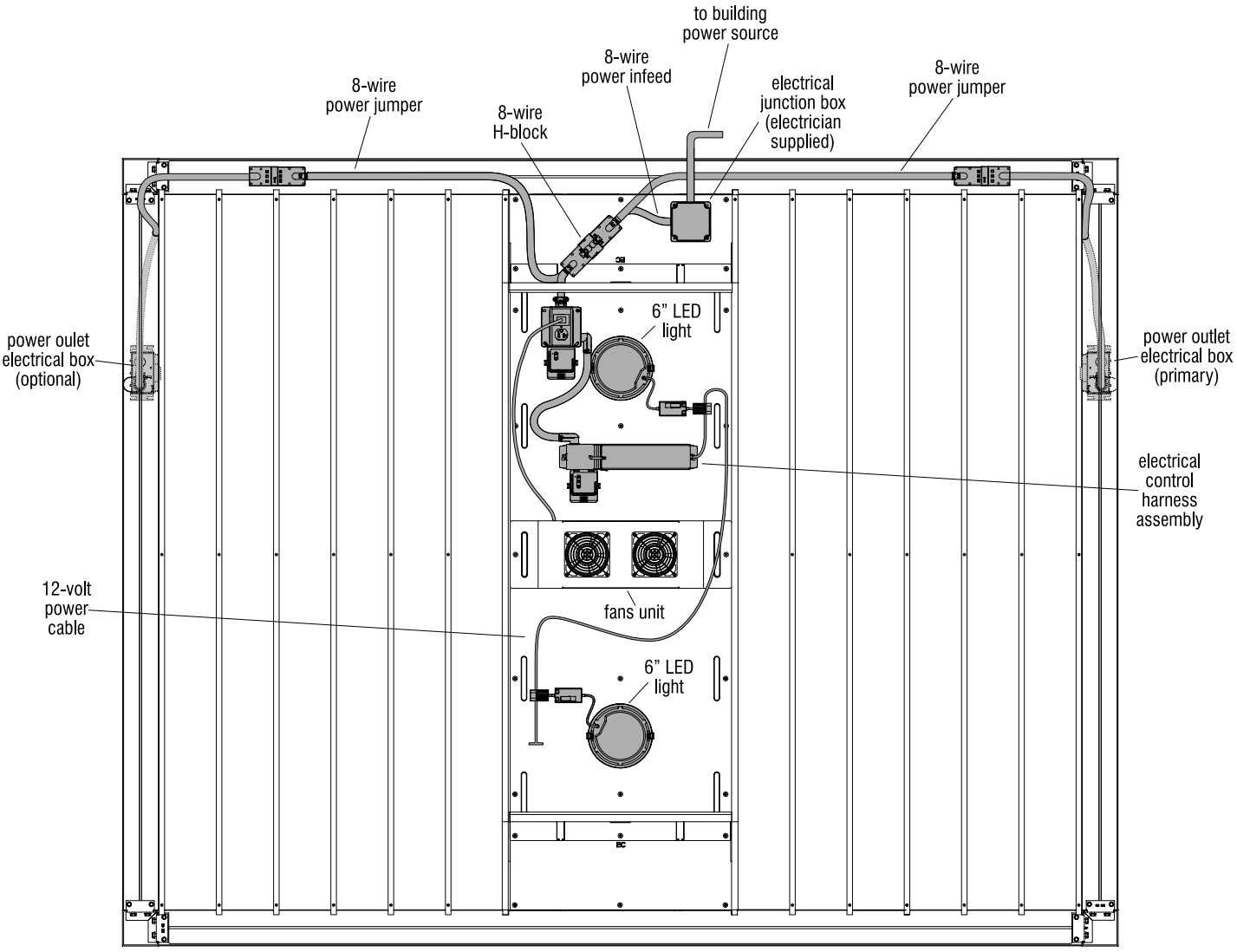


FRONT

Louver Ceiling with Side-Oriented Light & Fan Plank 8-Wire Electrical - Typical Layout

CAUTION

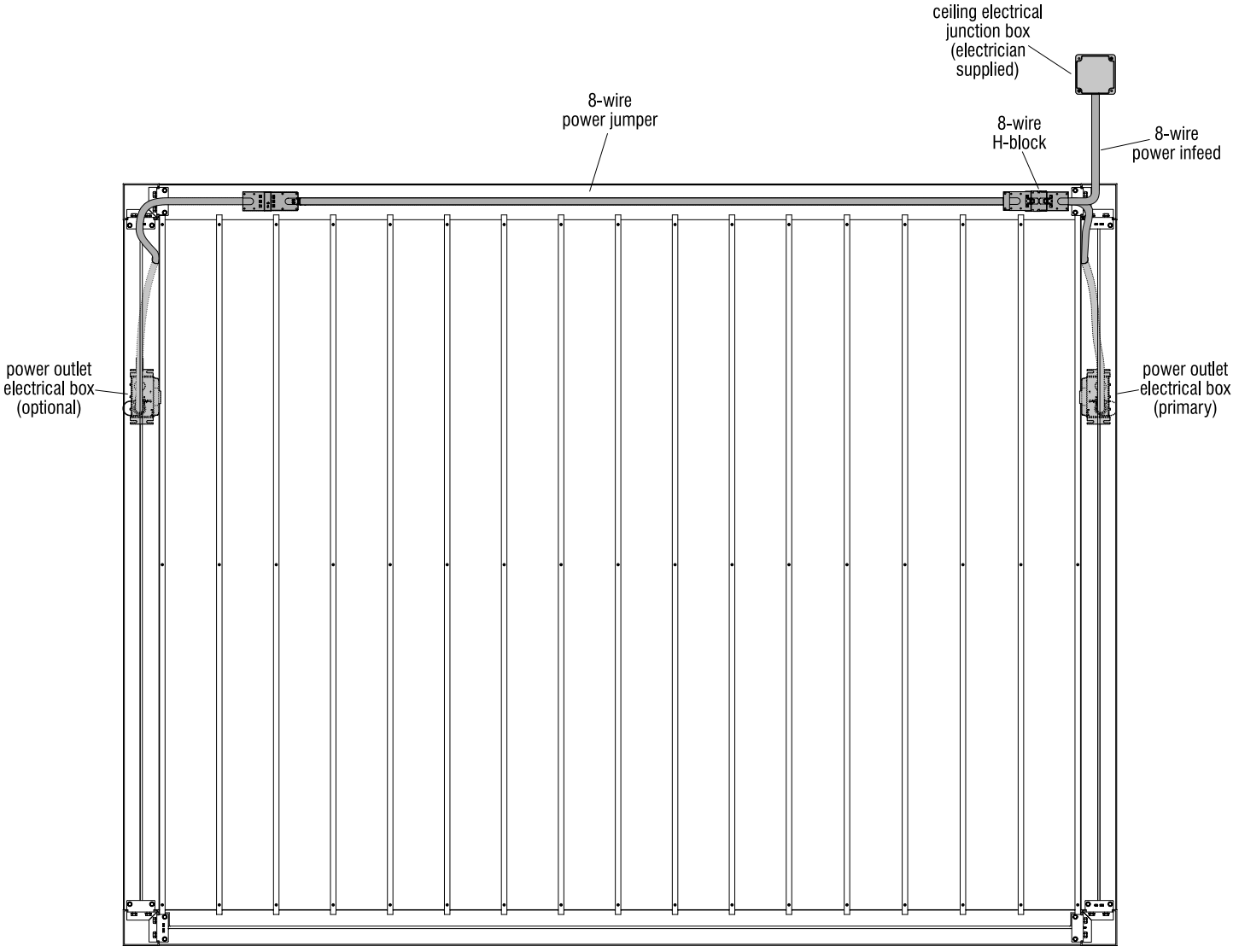
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Louver Ceiling with Center-Oriented Light & Fan Plank 8-Wire Electrical - Typical Layout

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Louver Ceiling 8-Wire Electrical with Power Outlets Only - Typical Layout

CAUTION

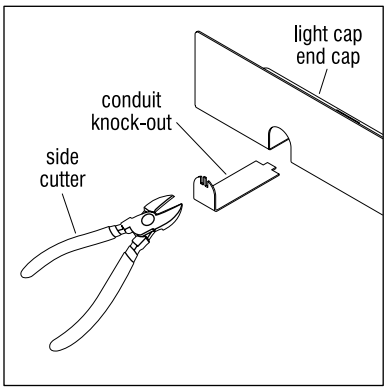
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

8-Wire Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling

Note: Instructions on pages 64 through 67 are for assembling above-ceiling electrical components to a super structure with light plank, fan plank and air intake plank ceiling. Your configuration of the same components may be flipped or mirrored in orientation, but these instructions apply. If your ceiling configuration is of any other plank configuration, please go now to the assembly instructions page associated with that ceiling type.

Important: All mechanical connections of panels, as well as all modular 8-wire electrical connections must be made before any source power electrical connections may be performed.

1. Begin installation above the ceiling, at the end of the light plank that is closest to the fans on the fan plank. Locate the installed light plank end cap near the fans on the fan plank next to it. Remove the three #14 x ½" screws holding the light plank end cap on, then set the end cap and screws aside for re-assembly in step 3 (Figure 1).
2. Locate the electrical control harness assembly and position it as illustrated with the lights power converter section onto the light plank, then bend the conduit with the fan plug-in box over to the fan plank side and in position as illustrated (Figure 1).
3. Take the light plank end cap in hand and orient it as it was removed in step 1, over the location where the conduit from the lights power converter wraps around from the light plank to the fan plank. Identify the conduit knock-out that the conduit can pass through when the light plank end cap is re-installed. Use a side cutter and remove the appropriate knock-out then re-install the end cap to capture the conduit, using the #14 x ½" screws removed in step 1 above (Figure 1 & Detail A).
4. With the electrical control harness assembly in position on top of the light plank and fan plank, locate the 12-volt power cable from the end of the lights power converter and route the wires toward the future light locations and coil the remaining cable at the end of the light plank (Figure 1).
5. Plug the modular connector end of the fans plug-in box into an 8-wire H-block, then plug a 8-wire power infeed connector into the H-block and set into position on top of the fan ceiling plank for future connection to the building power source by the electrician following guidelines at the end of this section (Figure 1).



Detail A

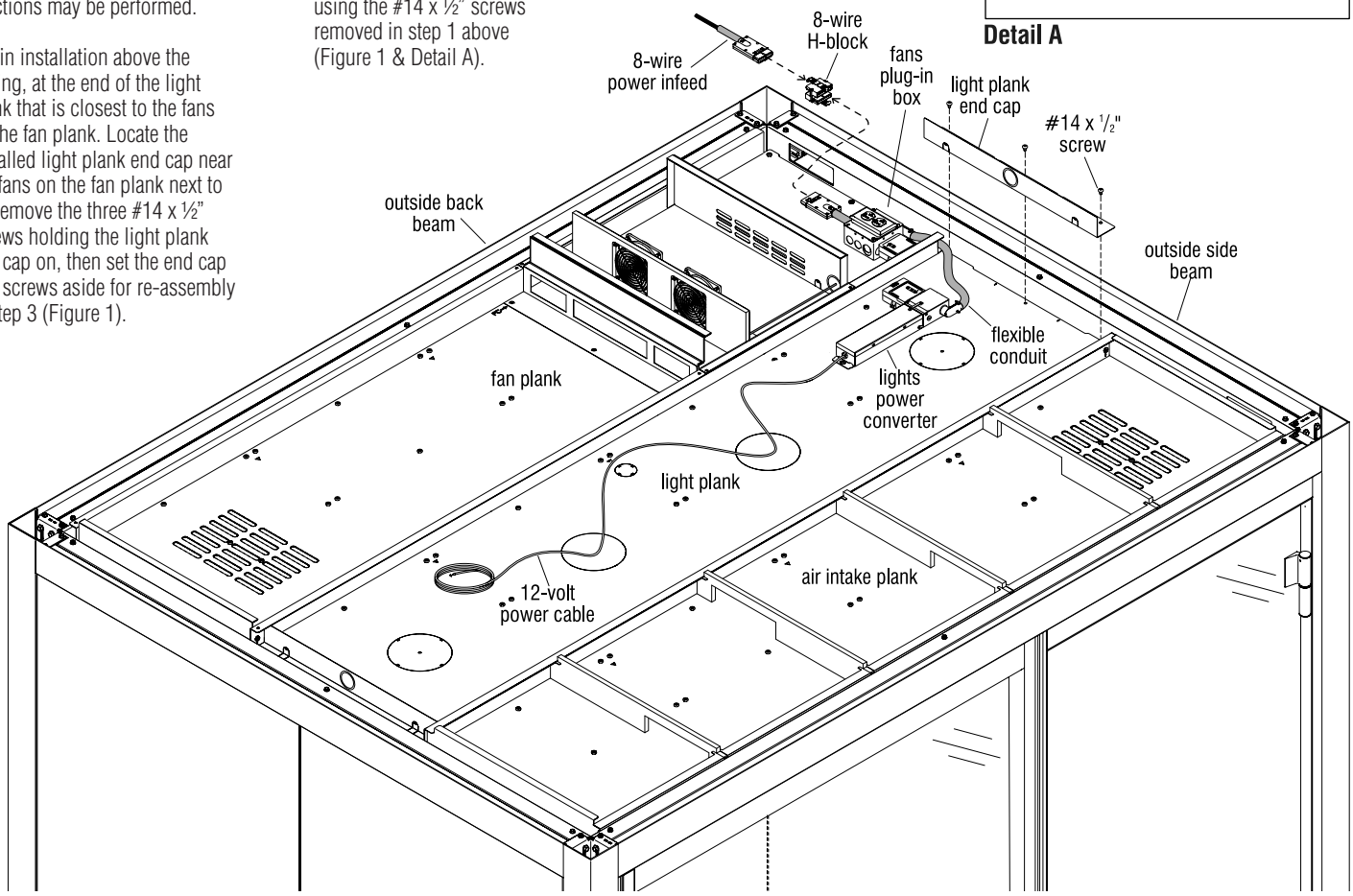


Figure 1

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

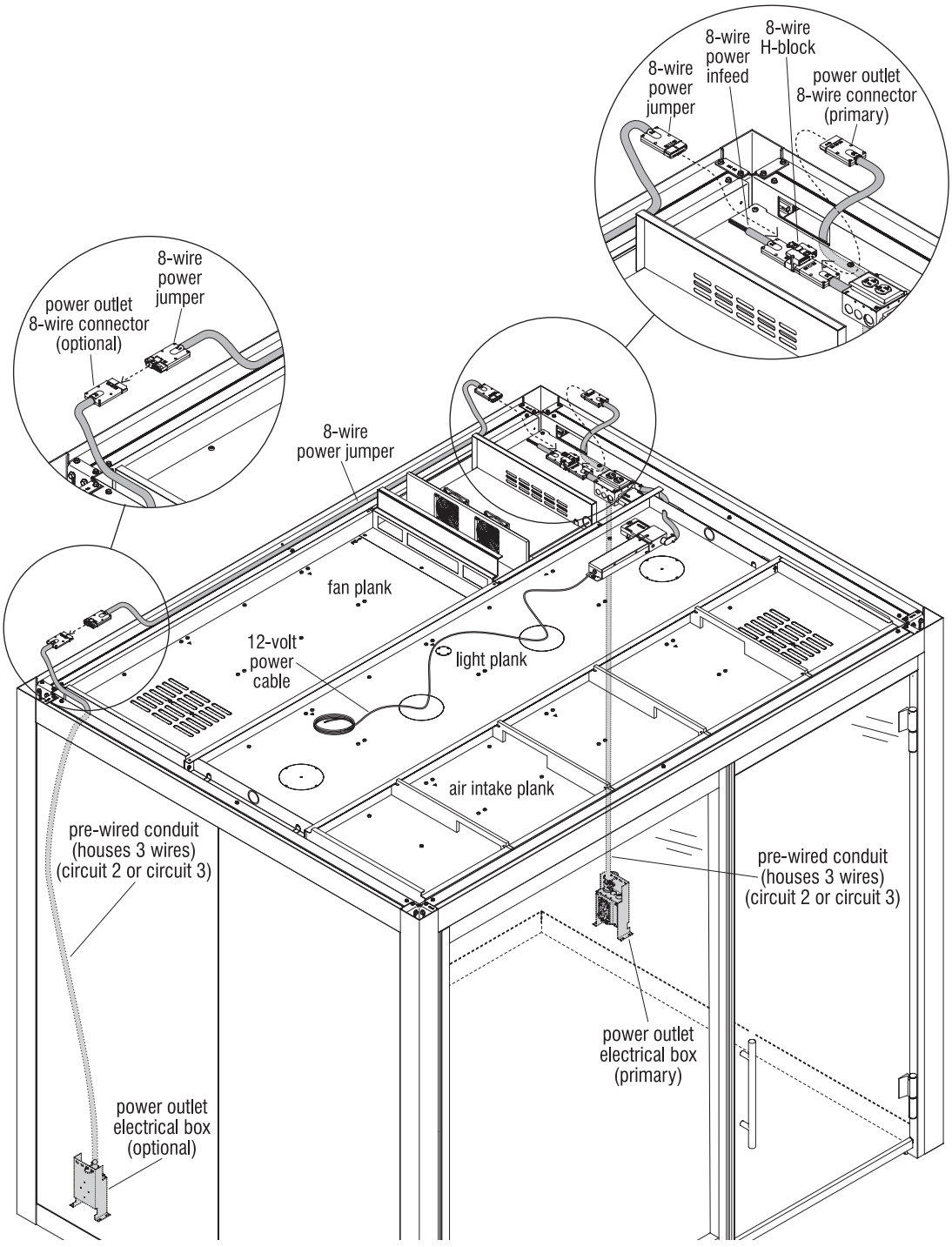


Figure 2

8-Wire Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling (cont.)

Note: A super structure is specified with one Evoke wall powered with an outlet (primary), or with a second wall with power outlet (optional). A super structure with one powered Evoke side wall should be installed nearest the fans end of a fan plank. If this is not the case, and if only one primary outlet is opposite the installed components on the ceiling, then a 10' long 8-wire power jumper must be used as is instructed in step 7 for the instructions to install the optional, second power receptacle panel wall.

6. Assure that the non-insulated panel shell was previously removed from Evoke panel(s) with a power outlet (if not, see page 40). At the wall frame with the primary power outlet and panel removed, locate the 8-wire modular connector end of the primary power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out, then plug the modular connector into the 8-wire H-block (Figure 2).

7. If your room configuration has a second, optional power outlet in a panel at the opposite side of the room, a 10-foot long 8-wire power jumper is required. Locate the 8-wire modular connector end of the optional power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out. Plug the modular connector from the power outlet into a 10-foot 8-wire power jumper, run the 8-wire power jumper along the top of the perimeter beam, then plug the modular connector into the 8-wire H-block (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Fan Plug-In & Junction Box Installation

8. The pigtail conduit end of the 8-wire power infeed is to be connected into an electrician-supplied junction box using a conduit connector. The junction box will sit on the fan plank ceiling (Figure 3).

9. Continue now to the next page for connecting the super structure to building source power.

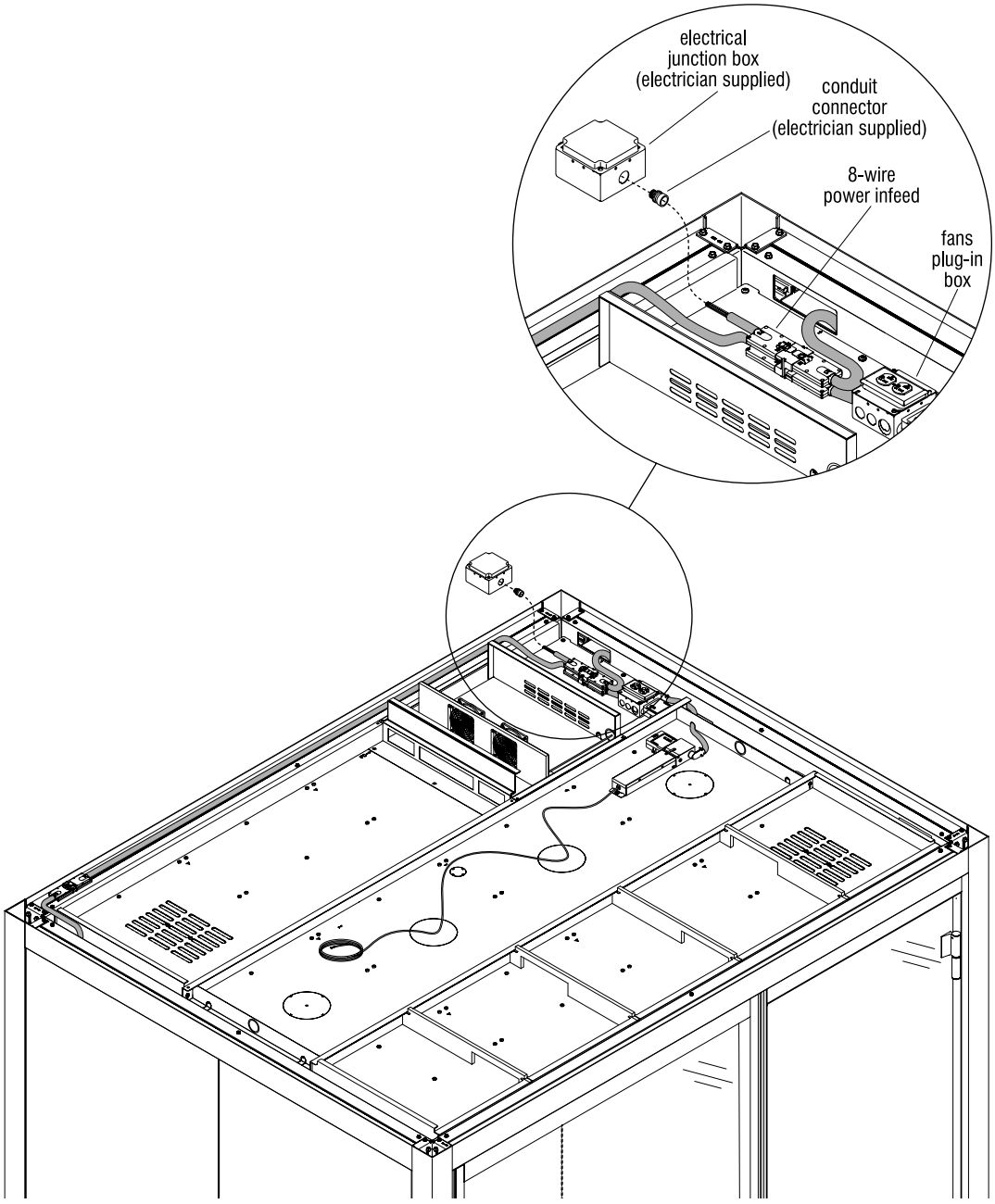


Figure 3

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

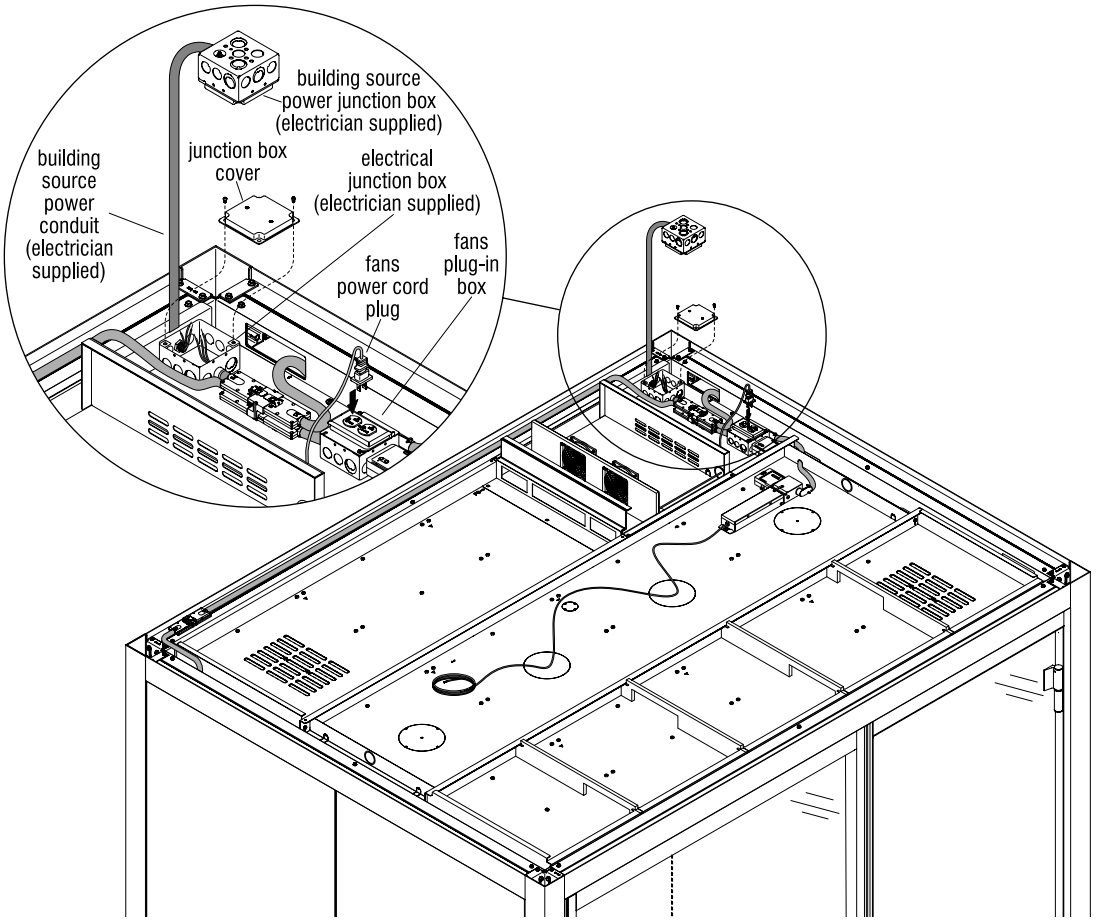


Figure 4

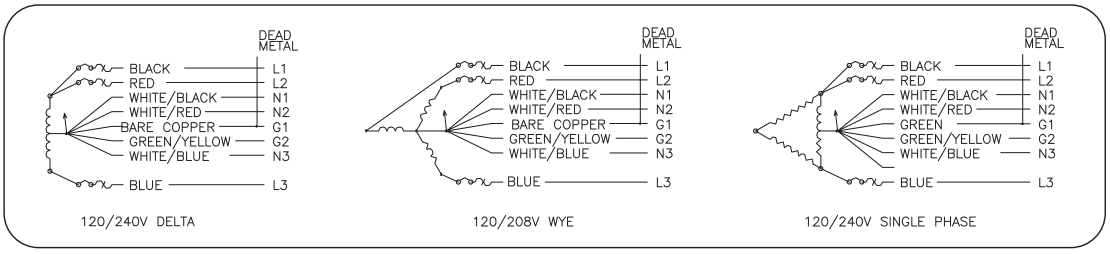


Figure 5 - Power Outlet Schematic

Fan Plug-In & Junction Box Installation (cont.)

10. A certified electrician is to run wires and conduit from a building source power junction box, into the super structure's ceiling junction box, make wire connections and re-install the junction box cover as per all codes at the job site (Figure 4).

11. Reference Figure 5 for power schematic.

12. Plug the fans power cord into the fans plug-in box of the electrical control harness assembly as illustrated (Figure 4).

13. Continue now to page 81 to install ceiling lights to the super structure.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

8-Wire Electrical - Blank Plank & Light Plank Ceiling

Note: Instructions on pages 68 through 71 are for assembling above-ceiling electrical components to a super structure with blank planks and a light plank. Your configuration of the same components may be flipped or mirrored in orientation, but these instructions apply. If your ceiling configuration is of any other plank configuration, please go now to the assembly instructions page associated with that ceiling type.

Important: All mechanical connections of panels, as well as all modular 8-wire electrical connections must be made before any source power electrical connections may be performed.

Note: A super structure is specified with one Evoke wall powered with an outlet (primary), or with a second wall with power outlet (optional).

1. Locate the installed blank plank end cap near the opening for the primary power outlet 8-wire connector. Remove the three #14 x ½" screws holding the blank plank end cap on, then set the end cap and screws aside for re-assembly in step 3 (Figure 1).
2. Assure that the non-insulated panel shell was previously removed from Evoke panel(s) with a power outlet (if not, see page 40). At the wall frame with the primary power outlet and panel removed, locate the 8-wire modular connector end of the primary power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out and onto the blank plank (Figure 1).
3. Locate the electrical control harness assembly and position it as illustrated with the lights power converter section onto the blank plank, then bend the conduit with the fan plug-in box over to the location of the primary power outlet 8-wire power connector and in position as illustrated (Figure 1).
4. Take the blank plank end cap in hand and orient it as it was removed in step 1, over the location where the conduit from the primary power outlet 8-wire power connector. Identify the conduit knock-out that the conduit can pass through when the blank plank end cap is re-installed. Use a side cutter and remove the appropriate knock-out then re-install the end cap to capture the conduit, using the #14 x ½" screws removed in step 1 above (Figure 1 & Detail A).
5. With the electrical control harness assembly in position on top of the blank plank, locate the 12-volt power cable from the end of the lights power converter and route the wires toward the grommet at the other end of the blank plank and coil the remaining cable (Figure 1).
6. Plug the modular connector end of the fans plug-in box into an 8-wire H-block, then plug a 8-wire power infeed connector into the H-block and set into position on top of the fan ceiling plank for future connection to the building power source by the electrician following guidelines at the end of this section (Figure 1).

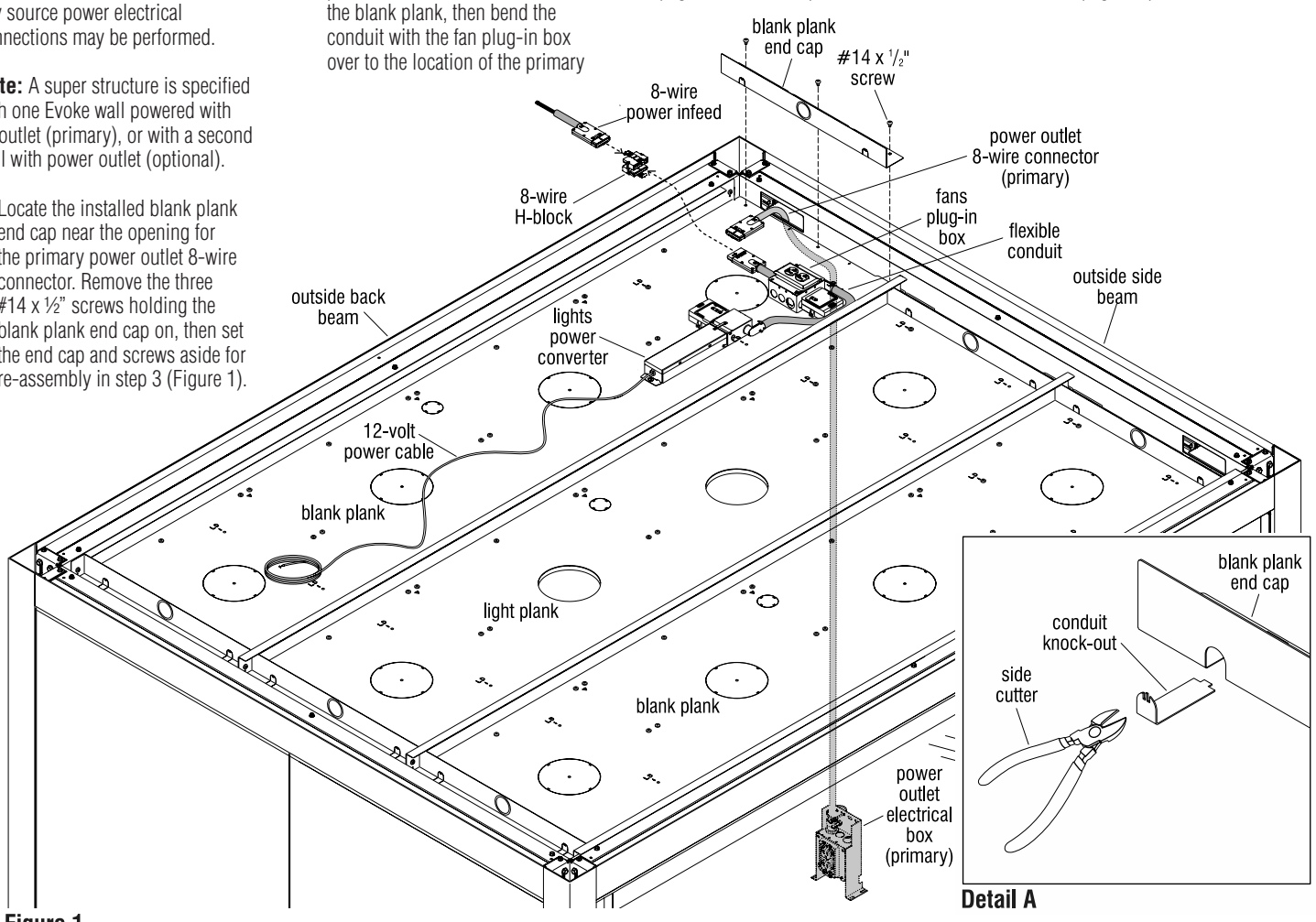


Figure 1

Detail A

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

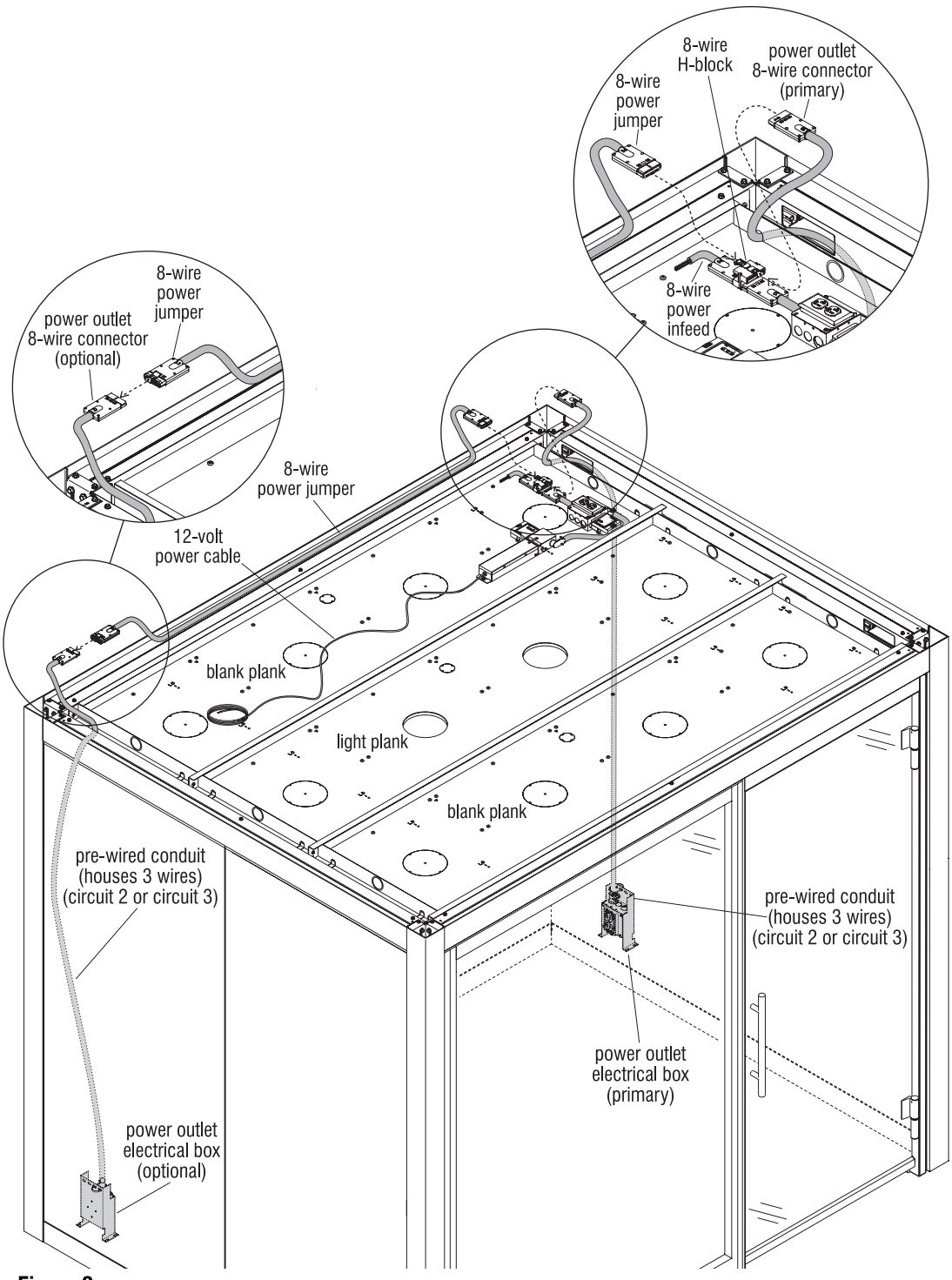


Figure 2

8-Wire Electrical - Blank Plank & Light Plank Ceiling (cont.)

Note: A super structure is specified with one Evoke wall powered with an outlet (primary), or with a second wall with power outlet (optional). A super structure with one powered Evoke side wall should be installed nearest where the electrical components will be installed. If this is not the case, and if only one primary outlet is opposite the installed components on the ceiling, then a 10' long 8-wire power jumper must be used as is instructed in step 7 for the instructions to install the optional, second power receptacle panel wall.

7. Plug the primary power outlet 8-wire modular connector into the 8-wire H-block (Figure 2).

8. If your room configuration has a second, optional power outlet in a panel at the opposite side of the room, a 10-foot long 8-wire power jumper is required. Locate the 8-wire modular connector end of the optional power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out. Plug the modular connector from the power outlet into a 10-foot 8-wire power jumper, run the 8-wire power jumper along the top of the perimeter beam, then plug the modular connector into the 8-wire H-block (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Junction Box Installation

9. The pigtail conduit end of the 8-wire power infeed is to be connected into an electrician-supplied junction box using a conduit connector. The junction box will sit on the blank plank ceiling (Figure 3).

10. Continue now to the next page for connecting the super structure to building source power.

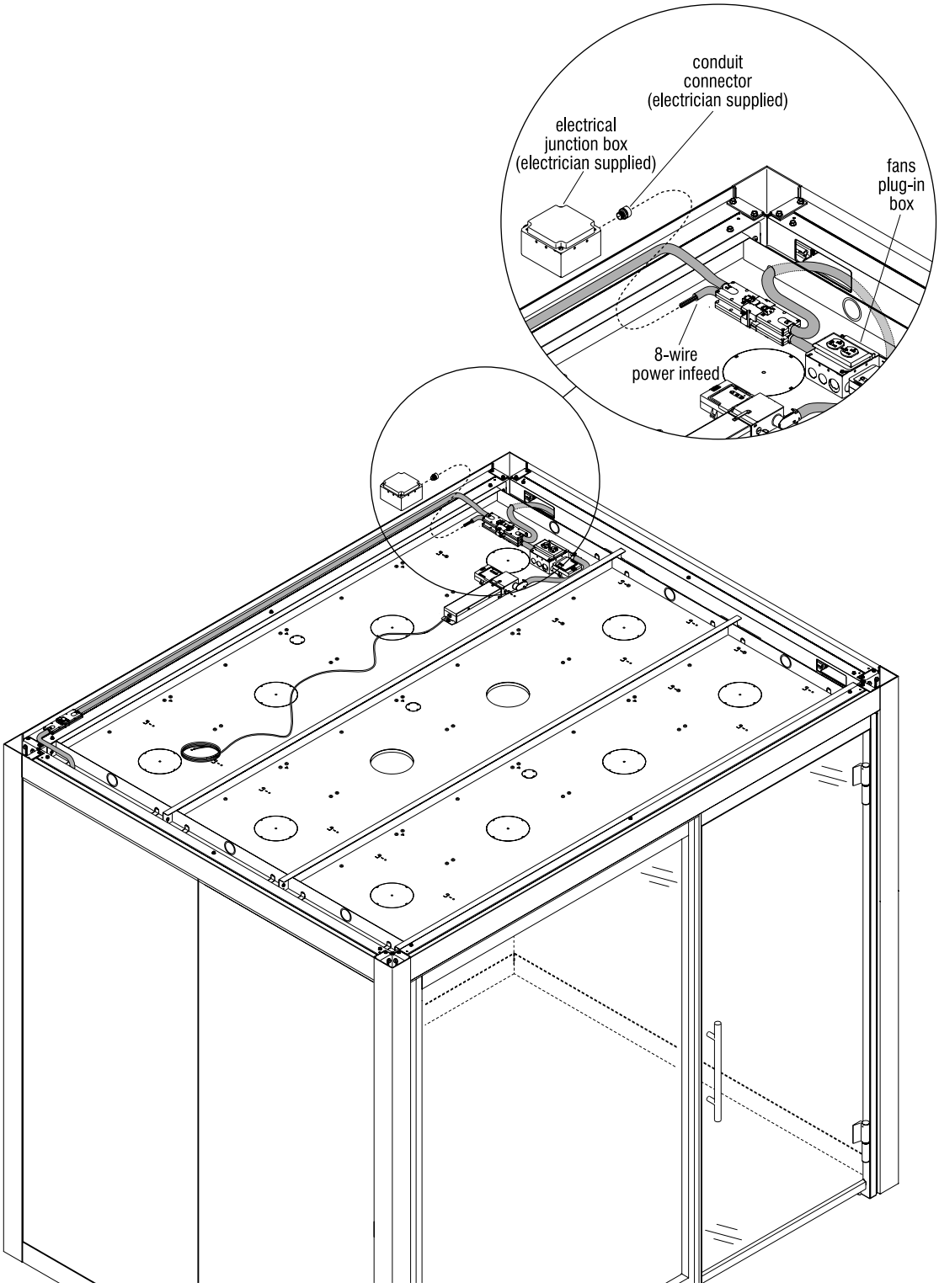


Figure 3

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

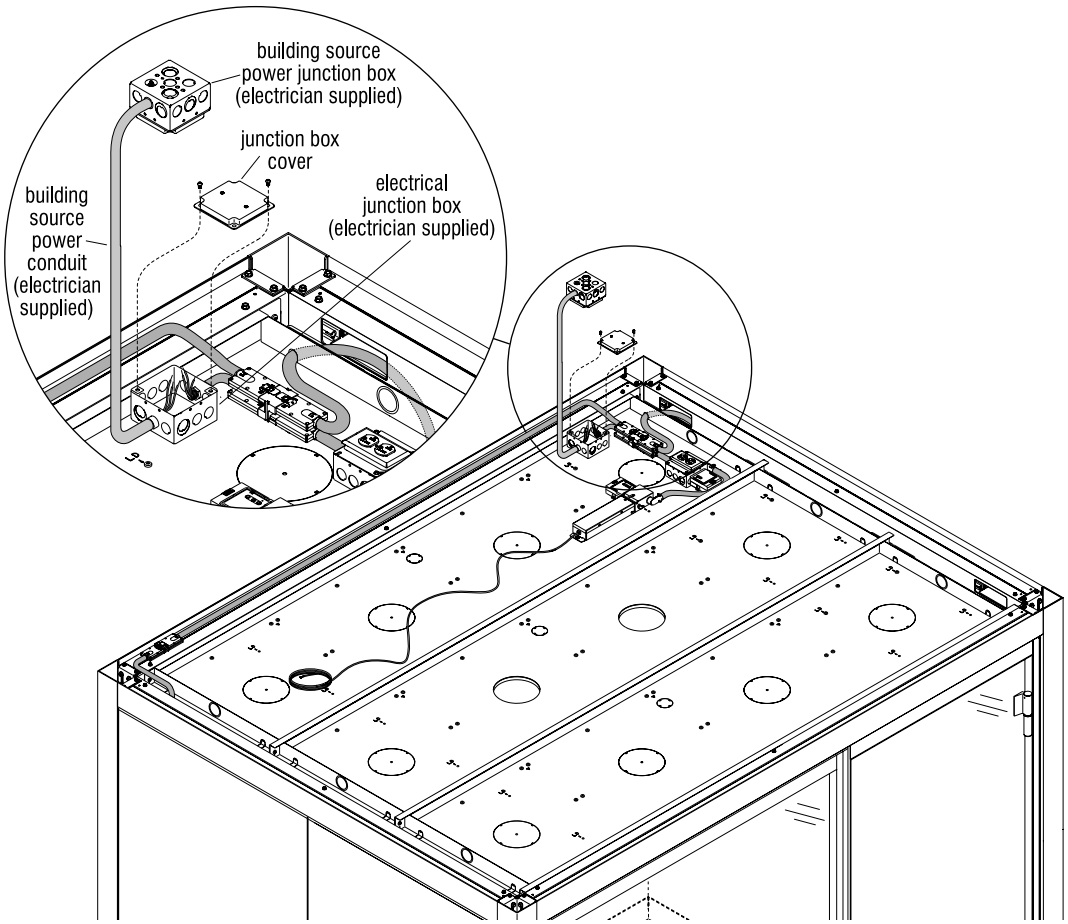


Figure 4

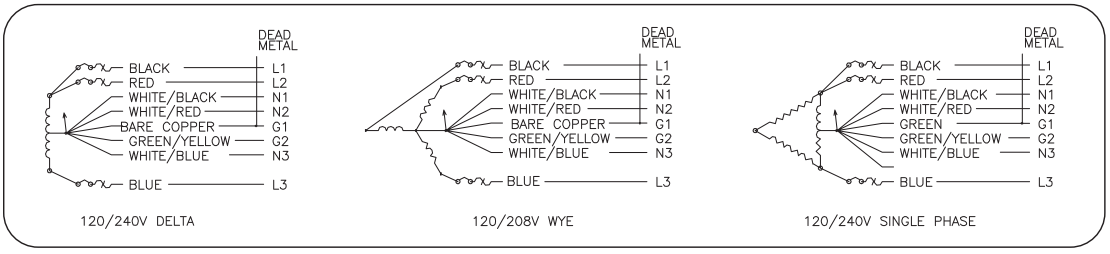


Figure 5 - Power Outlet Schematic

Junction Box Installation (cont.)

11. A certified electrician is to run wires and conduit from a building source power junction box, into the super structure's ceiling junction box, make wire connections and re-install the junction box cover as per all codes at the job site (Figure 4).

12. Reference Figure 5 for power schematic.

13. Continue now to page 81 to install ceiling lights to the super structure.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

8-Wire Electrical - Louver Ceiling with Light & Fan Plank Ceiling

Note: Instructions on pages 72 through 75 are for assembling above-ceiling electrical components to a super structure with louver ceiling and a light & fan plank. Your configuration of the same components may be flipped or mirrored in orientation, but these instructions apply. If your ceiling configuration is of any other plank configuration, please go now to the assembly instructions page associated with that ceiling type.

Important: All mechanical connections of panels, as well as all modular 8-wire electrical connections must be made before any source power electrical connections may be performed.

1. Begin installation above the ceiling, at the end of the light & fan plank that is closest to the location of the primary power outlet electrical box in the Evoke wall. Locate the installed light & fan plank end cap near the end of the light & fan plank at that location. Remove the three #14 x ½" screws holding the end cap on, then set the end cap and screws aside for re-assembly in step 3 (Figure 1).
2. Locate the electrical control harness assembly and position it as illustrated with the lights power converter section onto the light & fan plank, then bend the conduit with the fan plug-in box over toward the removed end cap side and in position as illustrated (Figure 1).
3. Take the light & fan plank end cap in hand and orient it as it was removed in step 1, over the location where the conduit for the modular connector from the fans plug-in box is located. Identify the conduit knock-out that the conduit can pass through when the light & fan plank end cap is re-installed. Use a side cutter and remove the appropriate knock-out, then re-install the end cap to capture the conduit, using the #14 x ½" screws removed in step 1 above (Figure 1 & Detail A).
4. With the electrical control harness assembly in position on top of the light & fan plank, locate the 12-volt power cable from the end of the lights power converter and route the wires toward the future light locations and coil the remaining cable at the end of the light plank (Figure 1).
5. Plug the modular connector end of the fans plug-in box into an 8-wire H-block, then plug a 8-wire power infeed connector into the H-block and set into position on top of the fan ceiling plank for future connection to the building power source by the electrician following guidelines at the end of this section (Figure 1).

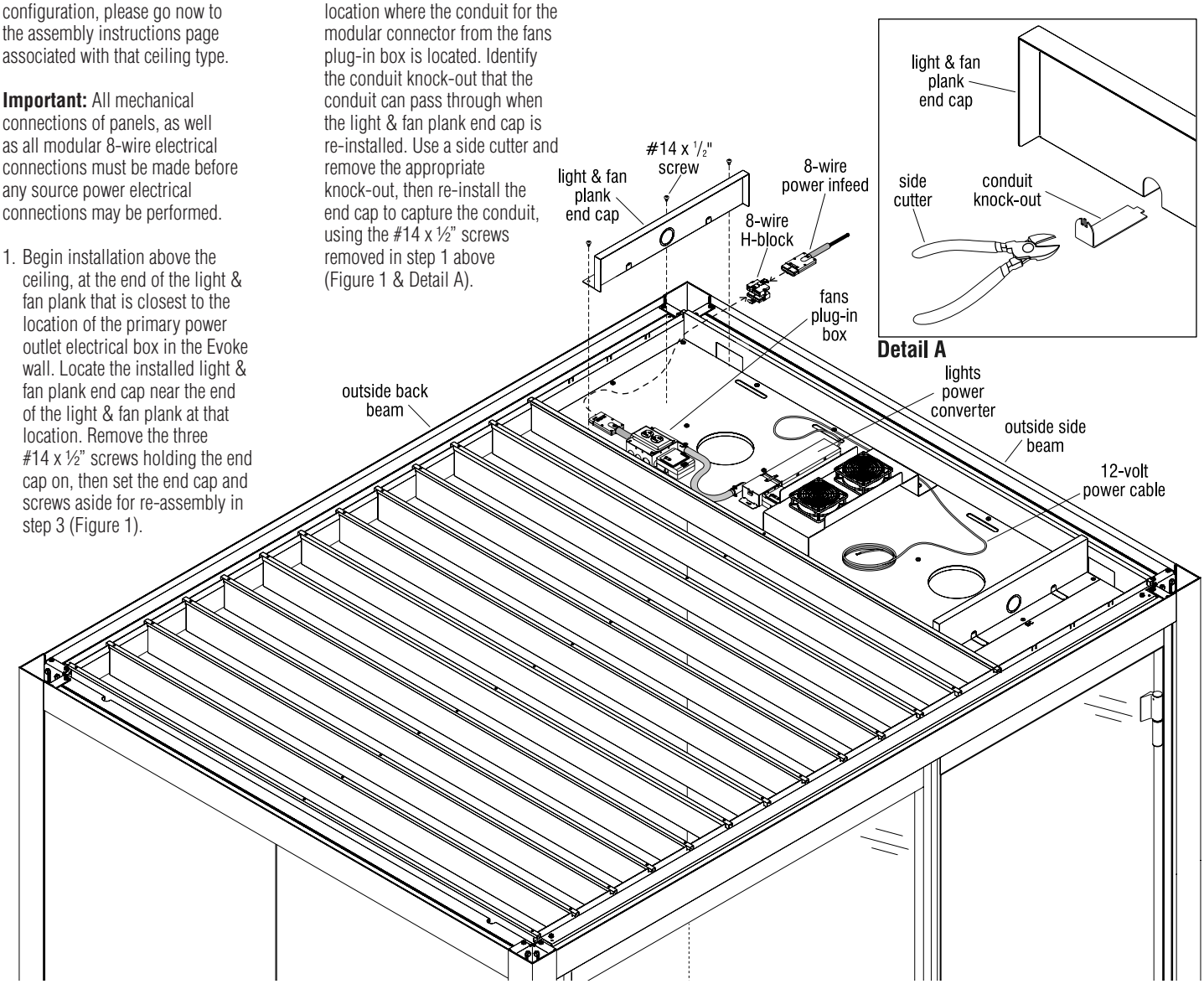


Figure 1

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

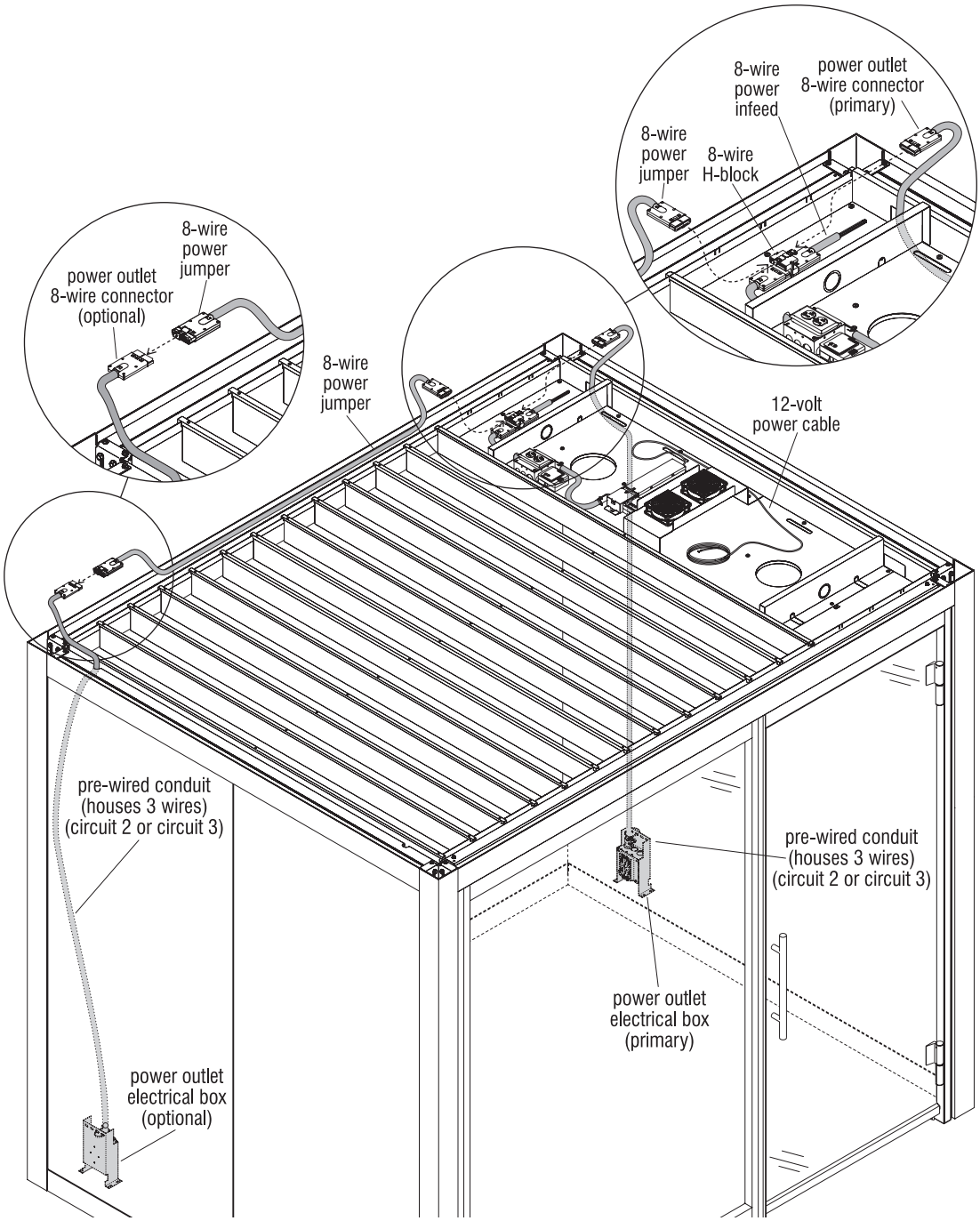


Figure 2

8-Wire Electrical - Louver Ceiling with Light & Fan Plank Ceiling (cont.)

Note: A super structure is specified with one Evoke wall powered with an outlet (primary), or with a second wall with power outlet (optional). A super structure with one powered Evoke side wall should be installed nearest the fans end of a fan plank. If this is not the case, and if only one primary outlet is opposite the installed components on the ceiling, then a 10' long 8-wire power jumper must be used as is instructed in step 7 for the instructions to install the optional, second power receptacle panel wall.

6. Assure that the non-insulated panel shell was previously removed from Evoke panel(s) with a power outlet (if not, see page 40). At the wall frame with the primary power outlet and panel removed, locate the 8-wire modular connector end of the primary power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out on the light & fan plank, then plug the modular connector into the 8-wire H-block (Figure 2).

7. If your room configuration has a second, optional power outlet in a panel at the opposite side of the room, a 10-foot long 8-wire power jumper is required. Locate the 8-wire modular connector end of the optional power outlet. Route the modular connector and flexible conduit up through the horizontal panel frame cut-out and through the top beam side cut-out. Plug the modular connector from the power outlet into a 10-foot 8-wire power jumper, run the 8-wire power jumper along the top of the perimeter beam, then plug the modular connector into the 8-wire H-block (Figure 2).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Fan Plug-In & Junction Box Installation

8. The pigtail conduit end of the 8-wire power infeed is to be connected into an electrician-supplied junction box using a conduit connector. The junction box will sit on the fan plank ceiling (Figure 3).

9. Continue now to the next page for connecting the super structure to building source power.

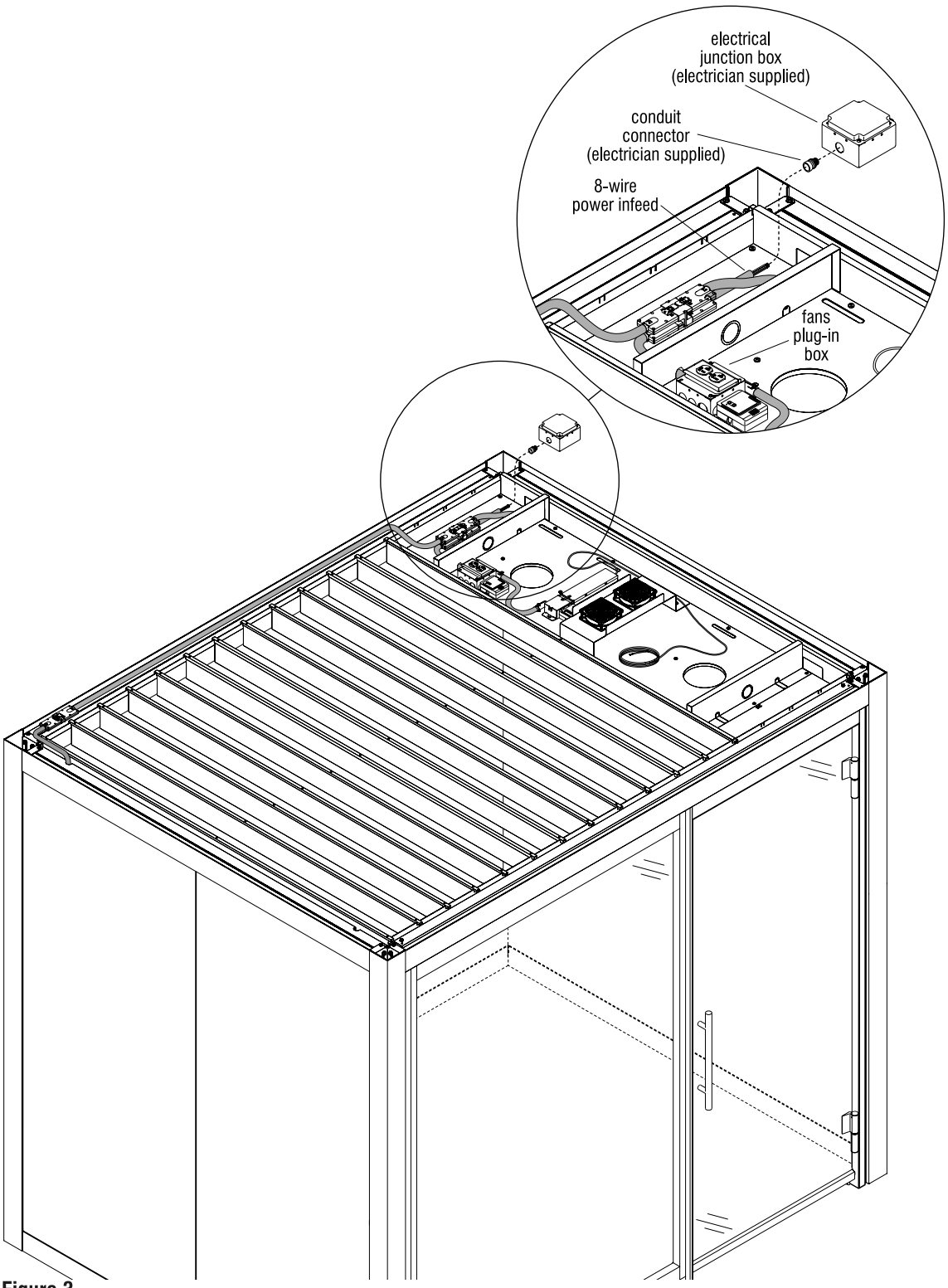


Figure 3

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

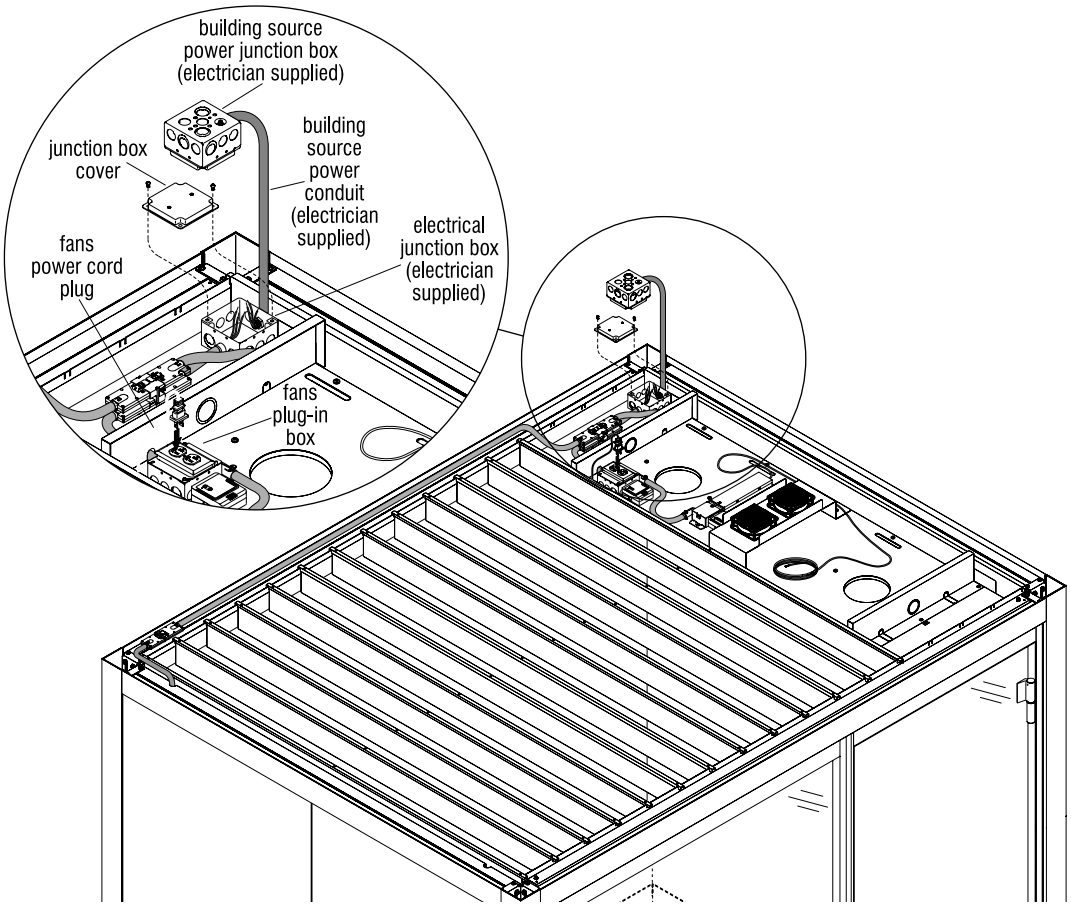


Figure 4

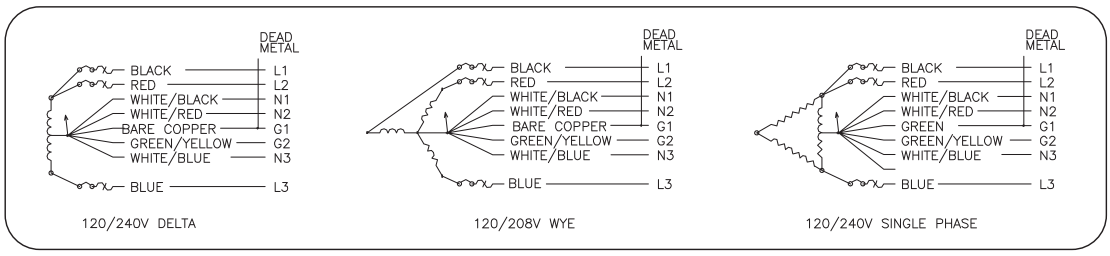


Figure 5 - Power Outlet Schematic

Fan Plug-In & Junction Box Installation (cont.)

10. A certified electrician is to run wires and conduit from a building source power junction box, into the super structure's ceiling junction box, make wire connections and re-install the junction box cover as per all codes at the job site (Figure 4).

11. Reference Figure 5 for power schematic.

12. Plug the fans power cord into the fans plug-in box of the electrical control harness assembly as illustrated (Figure 4).

13. Continue now to page 81 to install ceiling lights to the super structure.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Overview - Evoke Wall Panels with Hardwired Electrical Boxes (un-wired conventional electrical)

Important: All hard wire and building source power wiring must be performed by a certified electrician following all electrical codes at the job site. All mechanical connections of panels, as well as all hardwired electrical connections must be made before any source power electrical connections may be performed.

Overview: Assembled Evoke Wall panels for WiggleRoom Super Structure requiring hardwired electrical components ship from the factory with a conventional electrical box installed. The conventional box is empty and has no conduit attached to it. An electrician is to provide conduit with wires and a power outlet. The power in-feed side of the conduit and wires are to be pulled up through the top of the panel frame and be routed into an electrician-supplied electrical junction box to be installed on top of the super structure ceiling when so instructed in this manual (Figure 1).

After all electrical connections are made as instructed in this manual, the job site electrician is to use an electrician supplied power infeed harness and other electrician supplied wiring components, per the KI quote drawing (or KI Installation Plan), to connect the super structure components to the building source power and inspect the electrical integrity of the entire system.

Overview – WiggleRoom Super Structure Hardwired Electrical Power Distribution

Overview: The hardwired power system for WiggleRoom Super Structure provides building source power infeed down to above the ceiling level of each room, then to appropriate electrical components. An electrician supplied electrical junction box is to be located onto the super structure ceiling as instructed. Electrician supplied power outlet(s) are to be installed in electrical boxes that are factory installed in the wall utilizing electrician supplied wire and conduit. The power outlet wiring and conduit is to be routed up to the electrician supplied junction box on the ceiling. The power control harness assembly (to power and control the lights and fan) is to be hardwired into the junction box on the ceiling as well. Electrician supplied power infeed wires route from the super structure ceiling junction box, up to an above ceiling junction box where the building source power connections will be made to power the room (Figure 2).

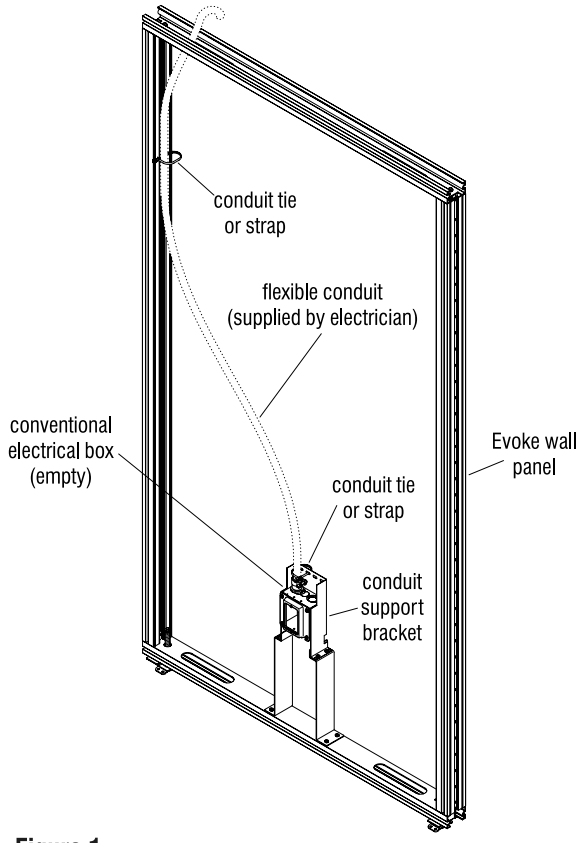


Figure 1

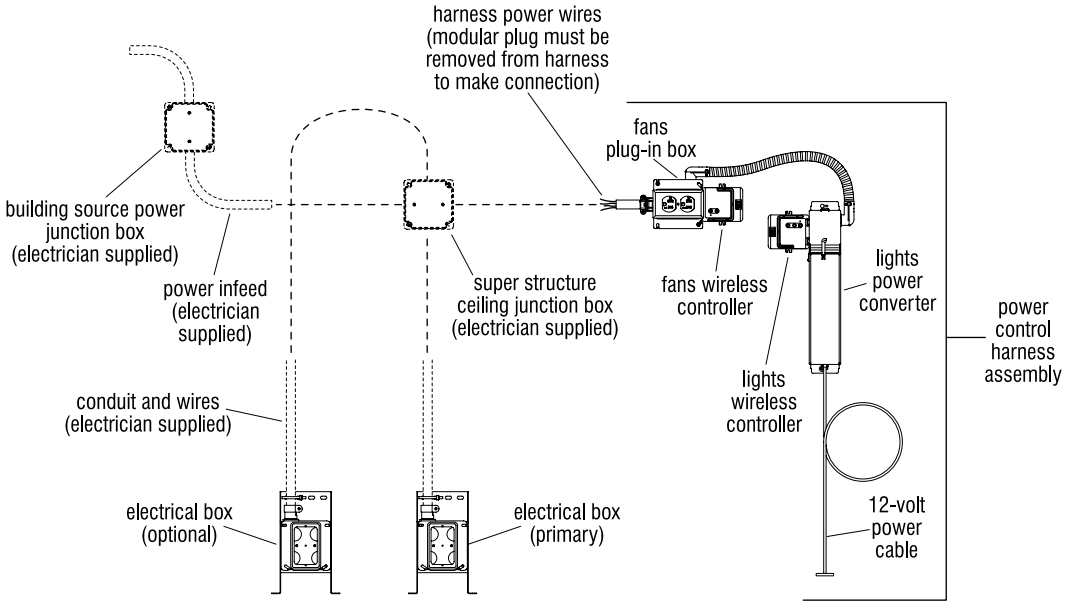


Figure 2 - Hardwired Electrical Power Distribution

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

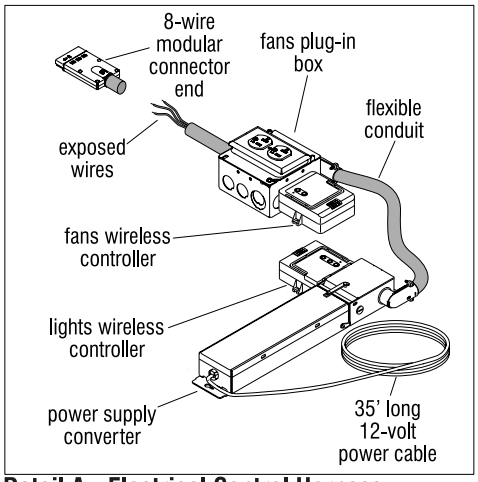
Hardwired Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling

Note: The instructions on pages 76 through 80 are electrician guidelines for installing hard wire components to a super structure with fan plank, light plank and air intake plank ceiling. Your configuration of the same components may be flipped or mirrored in orientation, but these instructions apply. If your ceiling configuration is of any other plank configuration, please go now to the assembly instructions page associated with that ceiling type.

Important: All mechanical connections of panels, as well as all electrical connections must be made, and the electrical integrity of the system must be confirmed by the electrician before any source power electrical connections may be performed. All hard wire and building source power wiring must be performed by a certified electrician following all electrical codes at the job site.

1. Begin installation above the super structure ceiling, at the end of the light plank that is closest to where the fans are on the fan plank. Locate the installed light plank end cap near the fans side of the fan plank, next to it. Remove the three #14 x ½" screws holding the light plank end cap on, then set the end cap and screws aside for re-assembly in step 3 (Figure 1).

2. Locate the electrical control harness assembly and remove the 8-wire connector end to expose the wires whip (Detail A). Position the electrical control harness as illustrated with the lights power converter section onto the light plank, then bend the conduit with the fan plug-in box over to the fan plank side and in position as illustrated (Figure 1).



Detail A - Electrical Control Harness

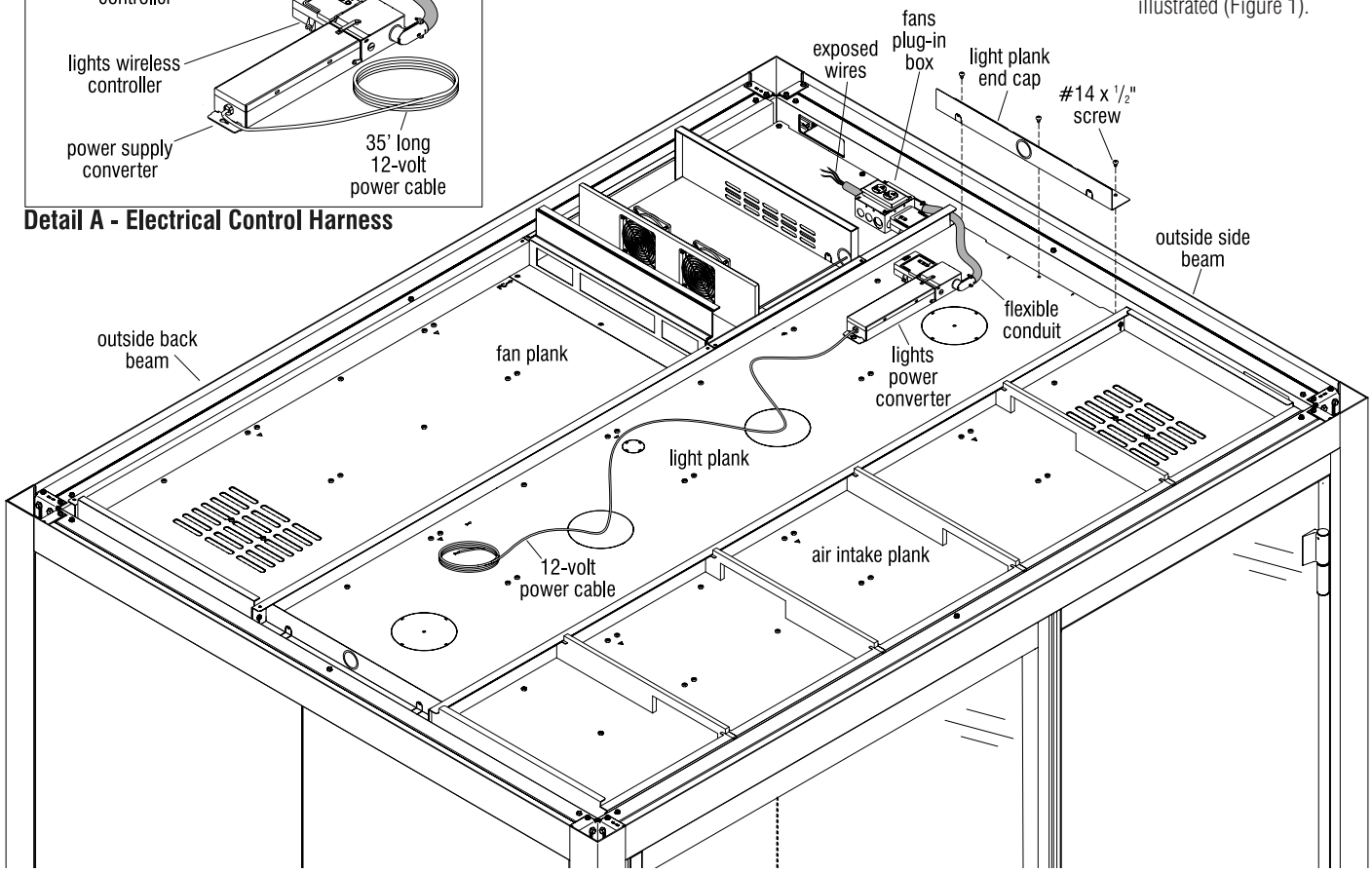


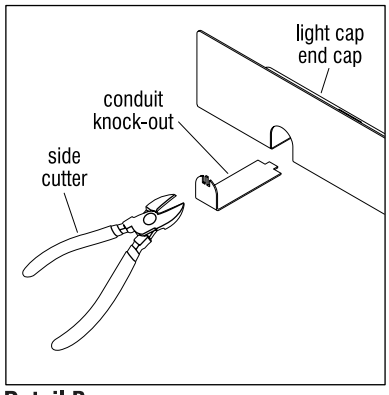
Figure 1

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

8-Wire Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling Hardwired Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling (cont.)

3. Take the light plank end cap in hand and orient it as it was removed in step 1, over the location where the conduit from the lights power converter wraps around from the light plank to the fan plank. Identify the end cap knock-out that the conduit must pass through when the light plank end cap is re-installed. Use a side cutter and remove the appropriate knock-out in the light plank end cap (Detail B). Re-install the end cap onto the end of the light plank to capture the conduit, using the #14 x ½" screws removed in step 1 above (Figure 2 & Detail B).
4. With the electrical control harness assembly in position on top of the light plank and fan plank, locate the 12-volt light power wires from the end of the lights power converter and route the wires over the future light locations (Figures 1 & 2).
5. Place an electrician supplied electrical junction box into position as illustrated on top of the fans plank, at the location of the exposed wires coming from the fan plug-in box. Run the wires into the junction box and connect the conduit appropriately to the box (Figure 2).
6. Locate the fan power cord and plug it into the fan plug-in box (Figure 2).



Detail B

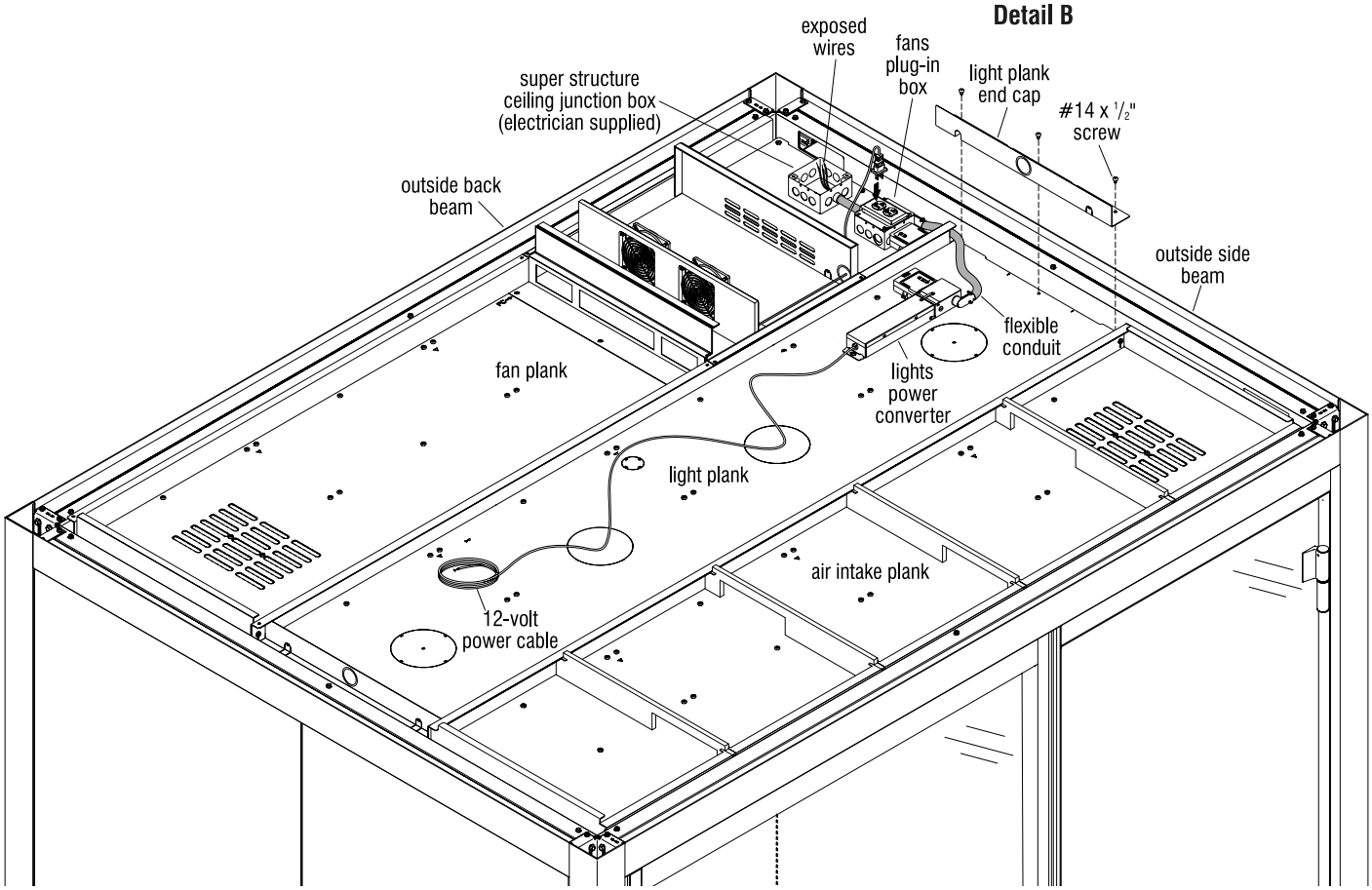


Figure 2

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Hardwired Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling (cont.)

Note: A super structure is specified with one Evoke wall powered (primary), or with a second wall with power outlet (optional). The primary powered Evoke side wall should be installed nearest the fans end of a fan plank ceiling tile. If this is not the case, and if only one wall with a power outlet is installed to be opposite the fan components on the ceiling, then the ceiling planks must be rotated 180-degrees, or longer hard wire conduit will be required to power that power outlet box.

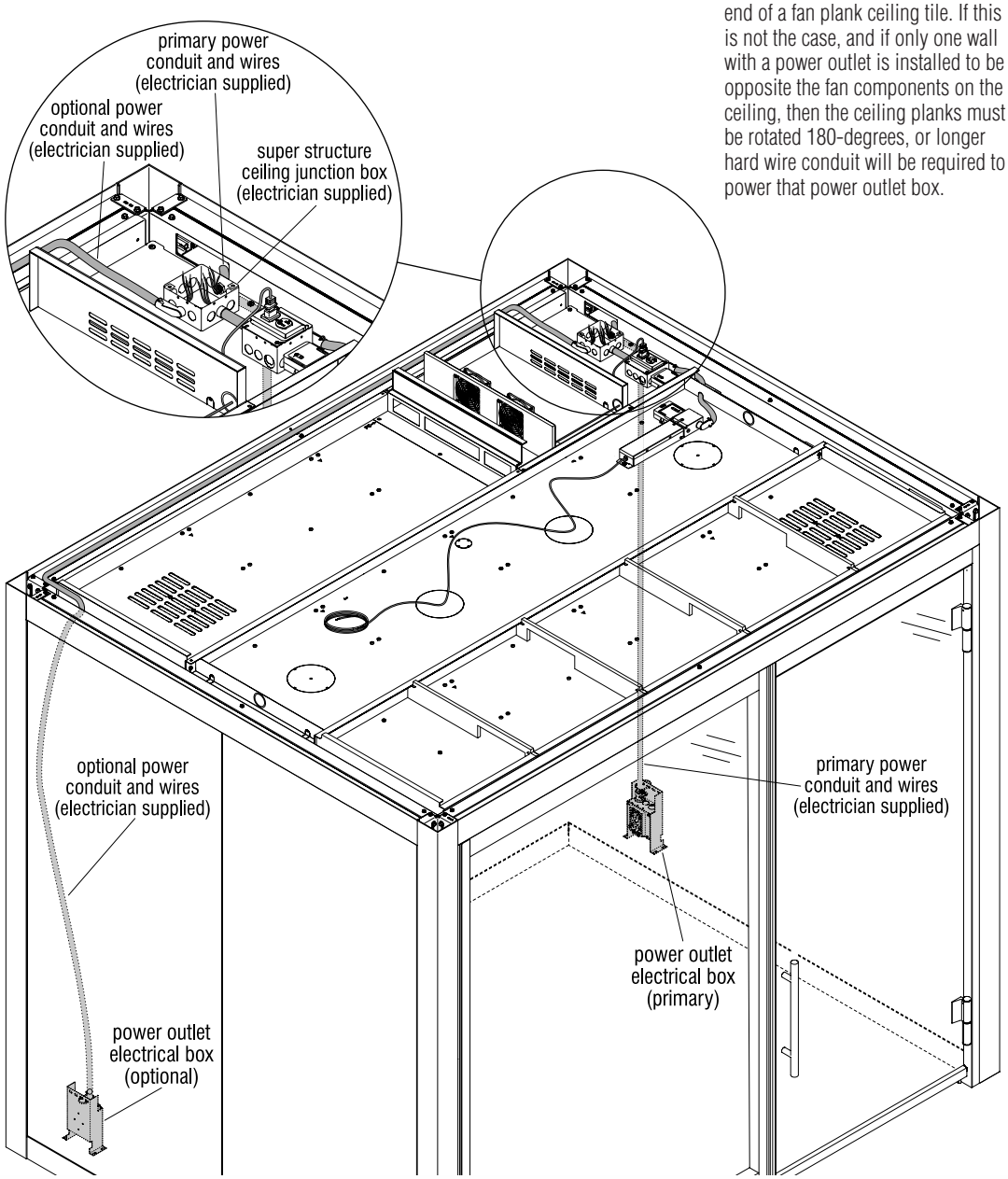


Figure 3

7. Assure that the non-insulated panel shell has been previously removed from Evoke panel(s) with electrical box(s) to receive a power outlet (if not, see page 40). At the panel frame with the primary power outlet location, electrician-supplied conduit with wires is to be installed to and run from the panel's empty power outlet box, up through the horizontal panel frame cut-out, through the beam side cut-out on top, and installed to the electrician-supplied junction box on the ceiling. Install a duplex power outlet to the wires and into the panel's power outlet box per code. Do not make ceiling junction box wire connections until so instructed (Figure 3).

8. If your room configuration has a second, "optional" empty power outlet box installed into the opposite panel wall, electrician-supplied conduit with wires is to be installed to and run from the panel's empty optional power outlet box, up through the horizontal panel frame cut-out, through the beam side cut-out on top, along the top of the perimeter beam as illustrated and is installed to the electrician-supplied junction box on the ceiling. Install a duplex power outlet to the wires and into the panel's power outlet box per code (Figure 3).

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Hardwired Electrical - Light Plank, Fan Plank & Air Intake Plank Ceiling (cont.)

9. Conduit and wire connections from the building source power to the electrician-supplied junction box on the super structure ceiling may now be made. Connections in the ceiling junction box will include building source power to the power infeed for the electrical control harness assembly, and panel wall power outlet(s). All connections are to be done by a certified electrician following all codes at the job site (Figure 4).

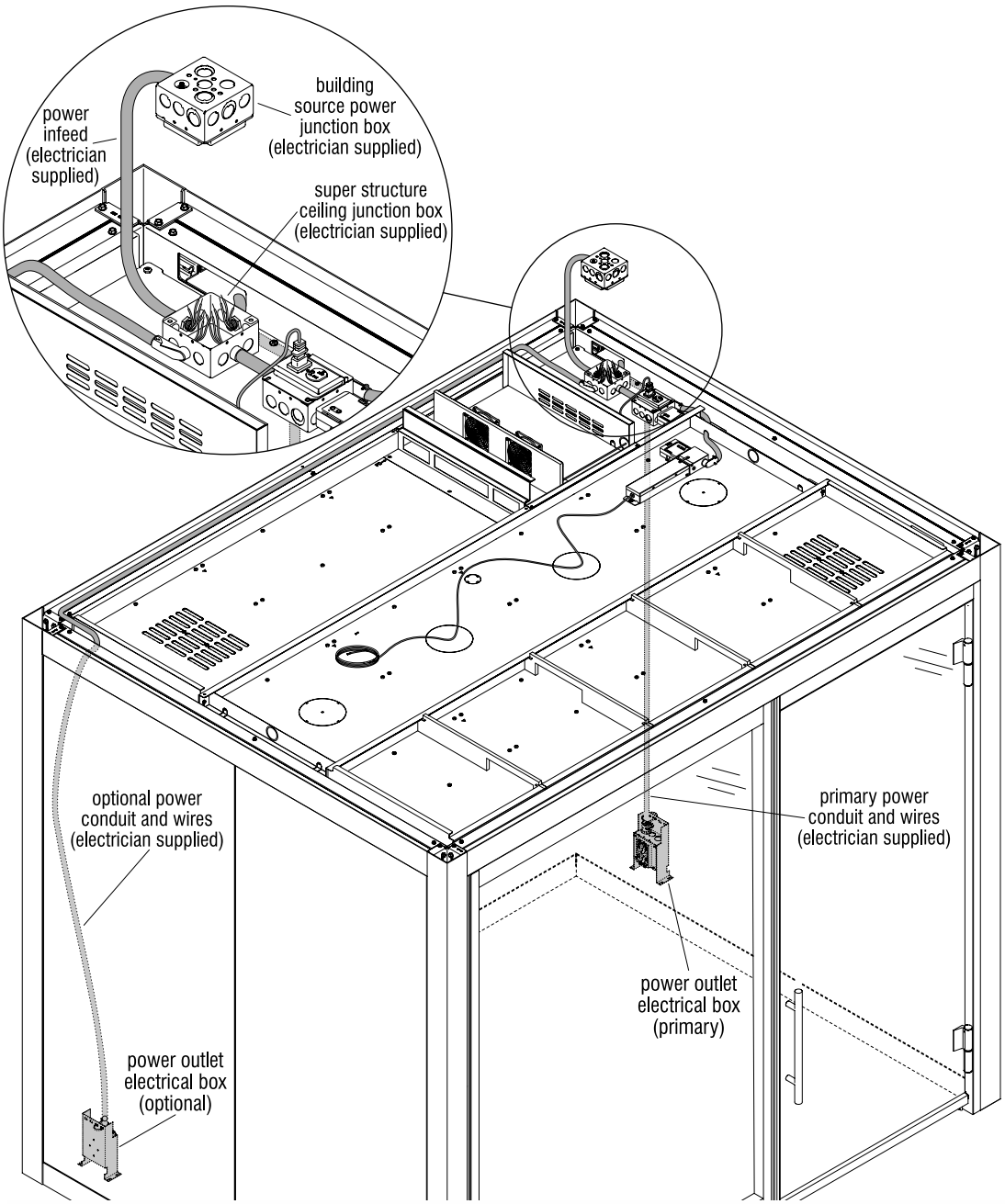


Figure 4

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

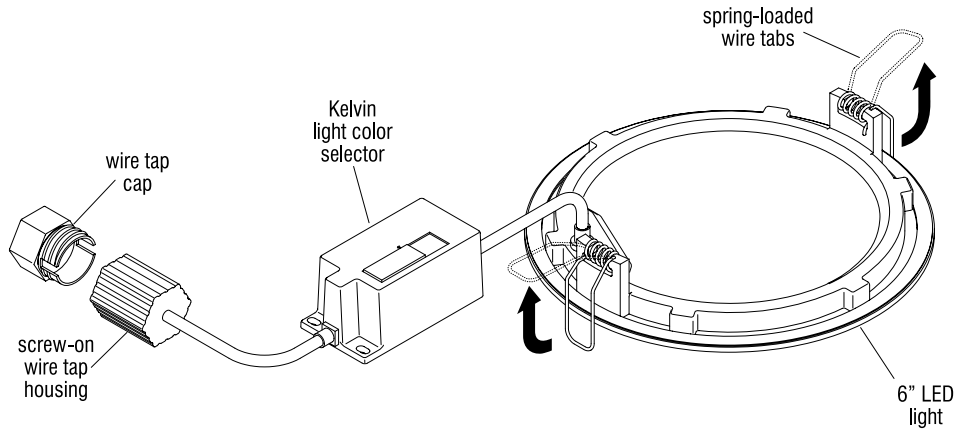


Figure 1

Light Installation

1. Reference Figure 1 to become familiar with the light fixture components (Figure 1).

   Note: Each individual light fixture has a Kelvin light color selector switch, and each fixture of the super structure should have the light selection set to be the same.

2. Check each fixture to be sure that the Kelvin light color selector switch is set the same for each of the two lights installing into the ceiling (Figure 1).

3. Locate the two spring-loaded wire tabs, one on each side of the LED light unit, and lift them up as illustrated to understand their operation. Both must be lifted-up and inserted into the hole first while installing each side of the unit into a ceiling cut-out, then they will spring closed to hold the light in place (Figure 1).

Note: The instructions on the next page depict light installation to a single light plank. If your super structure configuration has an additional light plank which requires lights installed, reference page 83, Figure 3 as a supplement to the following instructions on page 82.

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Light Installation (cont.)

4. Assure that self-healing 12-volt cable is run over the two LED light ceiling cut-out holes in the light plank.

   Note: The Figure 2 illustrations show the connection of lights from above the ceiling for clarity, but having at least one person working inside the super structure, under the light openings is required.

5. From inside the super structure, under one light cut-out location at a time, pull a loop of self-healing 12-volt power cable down through the light cut-out. Take the light fixture assembly in hand, hold the wire-tap cap, and twist to un-screw the screw-on wire-tap housing from the cap. Insert the loop of cable into the slot in the wire-tap cap, align the metal prong of the wire-tap housing with the slot in the cap, join the two together and twist the wire-tap housing to tighten and connect the 12-volt cable to the light (Figure 2).

6. Next, push the connected loop of cable and the Kelvin light color selector box up onto the ceiling. One side at a time, pull up on a spring-loaded wire tab and insert it first through the light cut-out, rotating the fixture up and inserting the second spring-loaded wire tab through the cut-out to hold the fixture in place when fully inserted into the ceiling (Figure 2).

7. Repeat steps 5 and 6 for the next light fixture to be installed to the ceiling plank (Figure 2).

8. If your super structure configuration has an additional light plank which requires lights installed, go now to the next page for cable routing (Page 83, Figure 3).

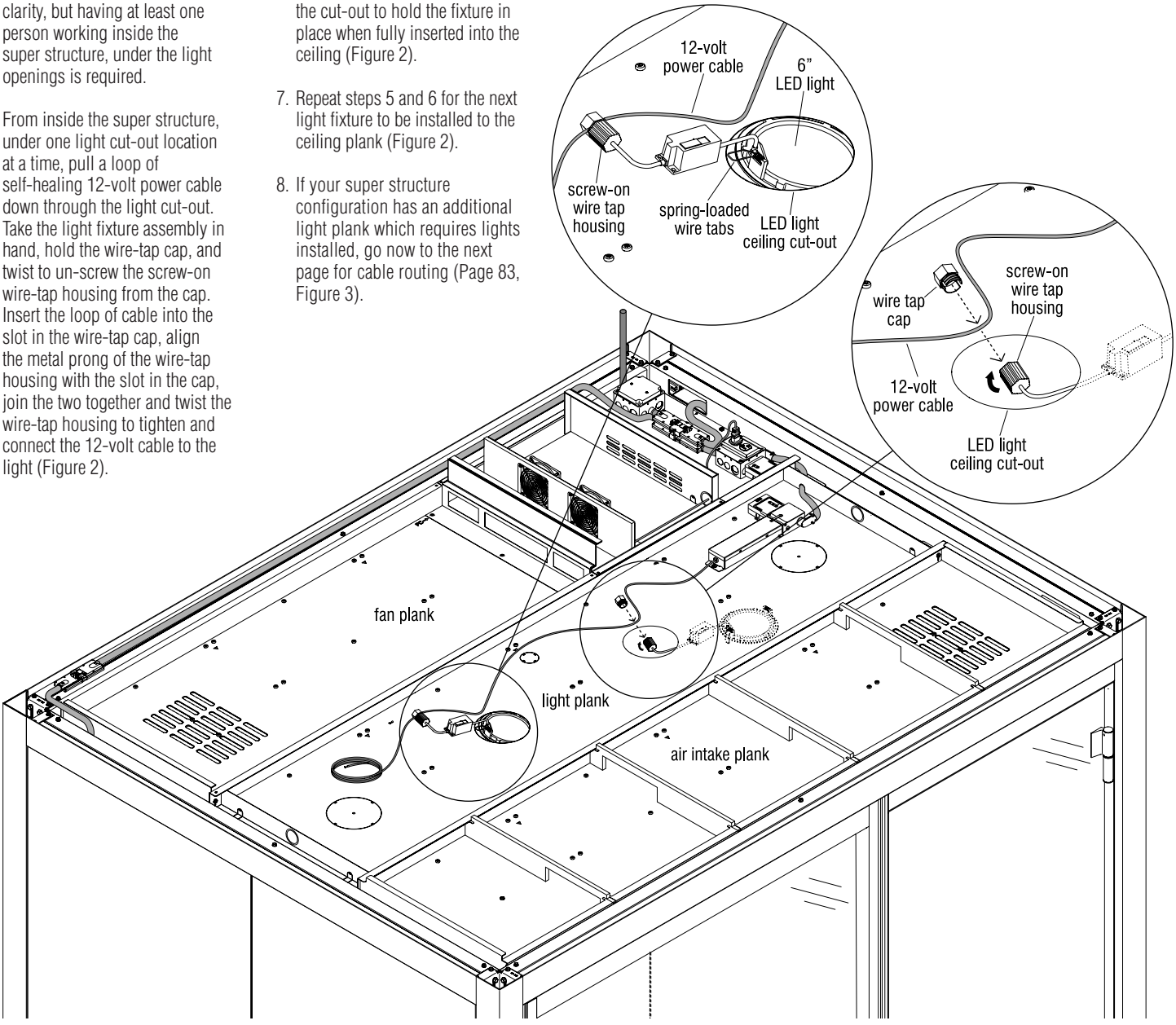


Figure 2

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Light Installation (cont.)

9. From above the ceiling of the super structure, at the end of two light planks, take note of the grommets at the ends. Use a knife and cut a slit in each grommet, to allow the 12-volt power cable to pass from one light plank to another. Pull the power cable out through the grommet in light plank #1, along between the light plank ends and the beam and in through the grommet in light plank #2 (Figure 3).

10. Assure that enough cable is pulled through both grommets to access the plank #2 lights installation, then position the cable over the light openings for installation of light fixtures from below (Figure 3).

11. Go back to the previous page (Page 82, steps 4 through 7) to reference installation of lighting fixtures to this page's light plank #2 light openings (Figure 2).

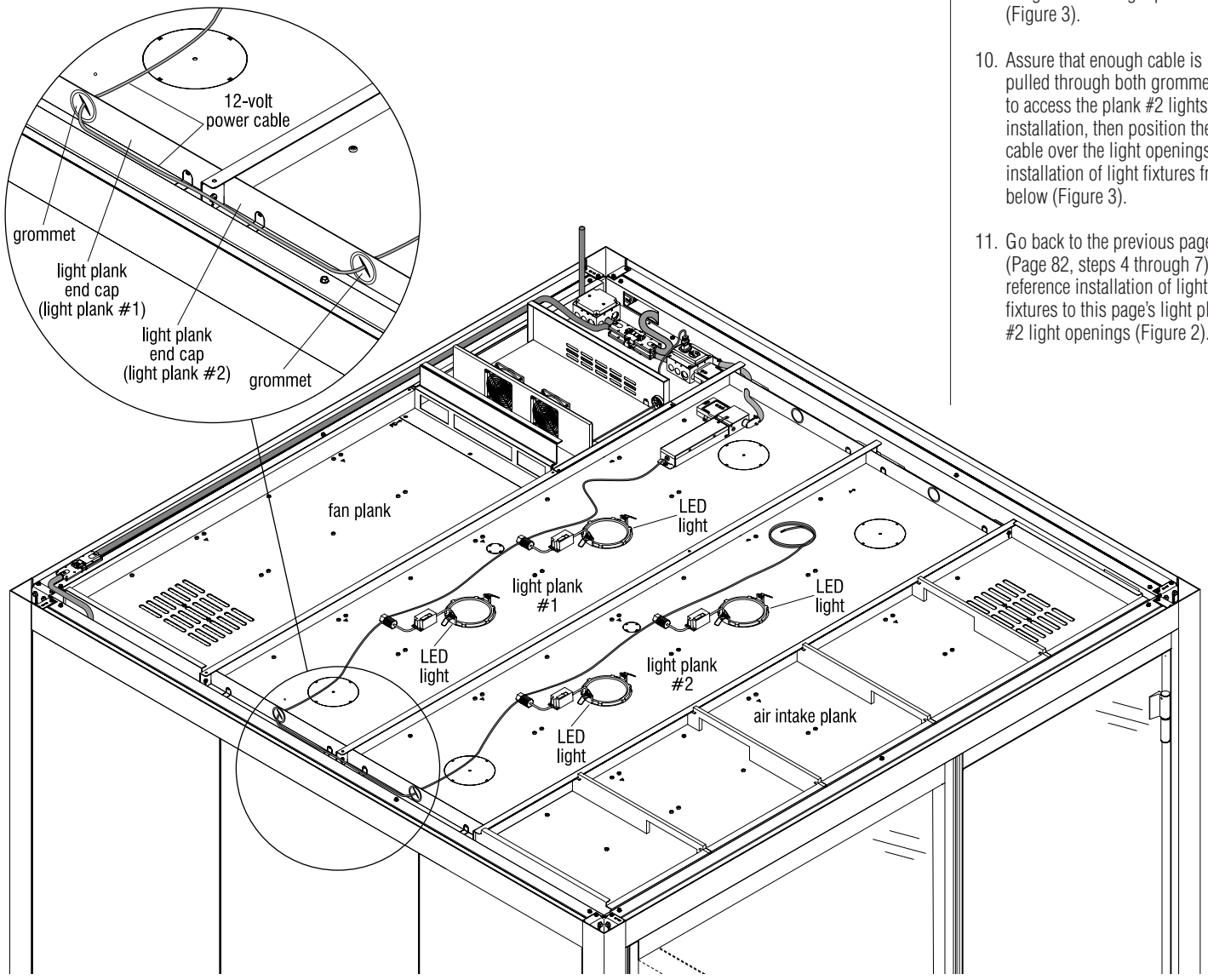


Figure 3

CAUTION

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Wireless Occupancy Sensor Installation

Note: The Wireless occupancy sensor is to be installed in the room at the front wall corner, away from a door to automatically control the turning on and off of the fans and lights, based on occupancy status of the room and per the pre-sets of the wireless remote.

1. Reference the Figure 1 diagram to choose a front-to-side wall inside corner, away from the doorway as the location to install the wireless occupancy sensor. Make a pencil mark at 5' up from the floor in the corner location to receive the occupancy sensor (Figure 1).

2. Reference the manufacturer's instructions included, and using either the screws supplied or double-sided tape, install the occupancy sensor mounting bracket just above the mark made at 5' in the corner (Figure 2).

3. Finally, slide the wireless occupancy sensor down onto the occupancy sensor mounting bracket as illustrated (Figure 3).

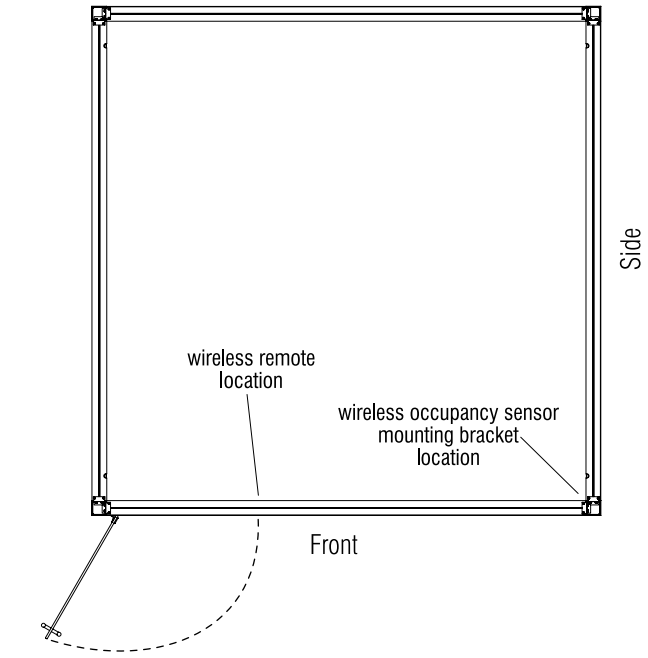


Figure 1

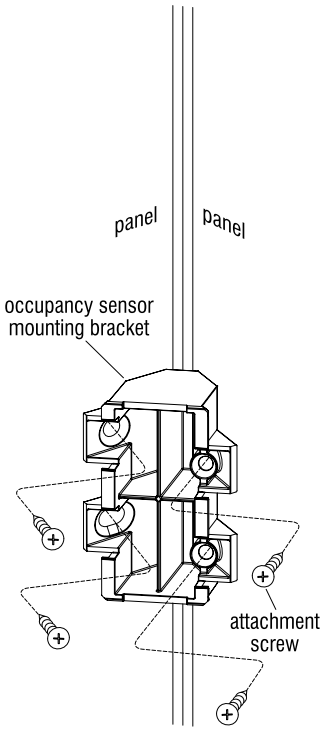


Figure 2

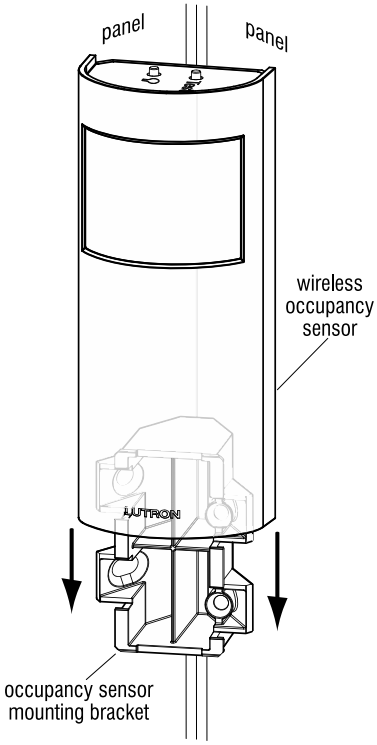


Figure 3

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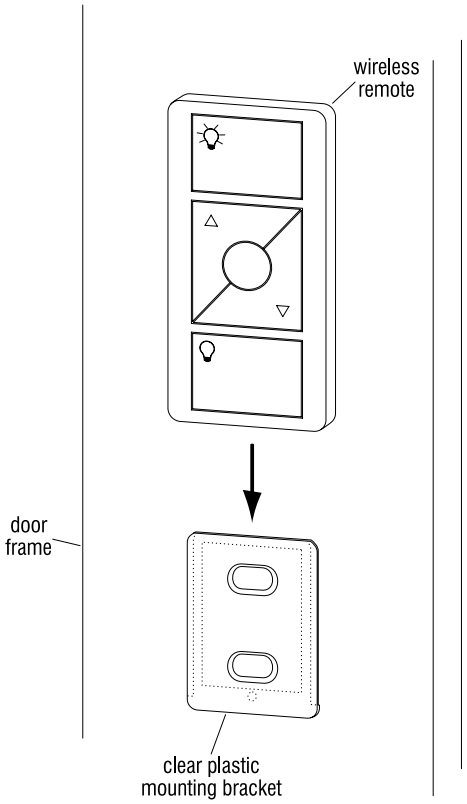

Figure 4

Wireless Remote Installation

Note: The wireless remote is to be installed on the door frame to set desired controls of the lights and fans functions. It works together with the wireless occupancy sensor to wake up or put to sleep the pre-set functions of the fans and lights, per the pre-sets of the wireless remote.

4. The wireless remote utilizes a clear plastic mounting bracket which must be secured to the door frame post at the catch-side, inside the room, at between 42" & 44" from the floor. Position the mounting bracket properly, so the wireless remote can slide onto it from above, then remove the backing from the white sticky pad at the back of the mounting bracket and press the mounting bracket firmly onto the door post in a square and level manner. If additional holding power is desired, use two customer-supplied #6 flat head (counter-sunk) screws, then pre-drill to secure the mounting bracket to the door post. Position the wireless remote above the bracket and slide it down to nest it firmly onto the installed mounting bracket (Figure 4).

CAUTION

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Pairing of Wireless Remote to Fans On/Off Wireless Controller & Lights On/Off/Dim Wireless Controller

Important: When all electrical connections are made in the ceiling and power is connected in the junction box, both the lights and the fans will turn ON. If they do not, connections should be checked to make sure they were done correctly.

Important: Following the steps below, pairing of the fans controller to the wireless remote must be completed first.

Note: The fans on/off wireless controller and the lights on/off/dim wireless controller are part of the electrical control harness assembly which is wired in, and on top of the super structure ceiling. Pairing of the wireless remote to both controllers require access to the ceiling. The wireless remote can be removed from its mounting bracket when performing the processes above the ceiling.

Pairing Wireless Remote to Fans On/Off Wireless Controller

1. Before starting, locate the wireless remote and open the battery compartment, to make sure the plastic is removed from battery contact. Then, above the ceiling at the fans wireless controller, press and hold the 120V/277V button for approximately six seconds until the LED light flashes on the controller and an audible clicking is heard, then release the button. The fans wireless controller is now in pairing mode (Figure 5 & Detail A).

2. Next with the wireless remote in hand, press and hold the power OFF button for six seconds, at which time the LED light on the remote will flash rapidly. At this time, release the OFF button on the wireless remote (Figures 5 & 6, Detail A).

3. Then, on the ceiling at the fans wireless controller, press and hold the 120V/277V button again, for six seconds until the LED light goes off and the clicking stops. The wireless remote is now paired to control the fans only. Test the fans function by pressing the wireless remote ON and OFF buttons. The lights will stay on for now as they have not been paired yet to the remote (Figures 5 & 6, Detail A).

   Note: Once the fans and lights controllers are both properly paired to the wireless remote, the ON switch turns on both the fans and the lights, and the OFF button turns them both off.

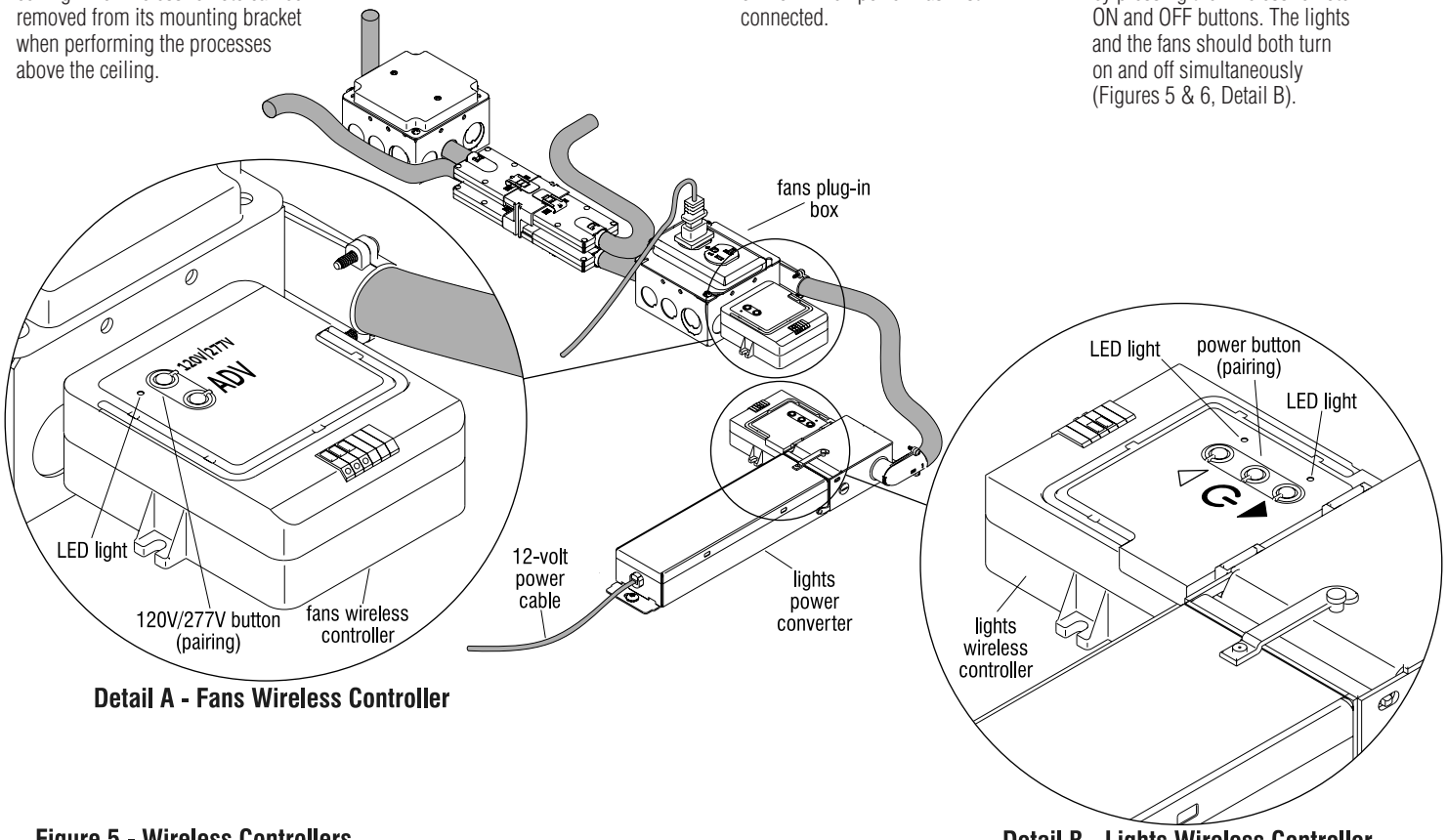
Pairing of Wireless Remote to Lights On/Dim/Off Wireless Controller

Note: The lights will still be on from when power was first connected.

4. Above the ceiling, at the lights wireless controller, press and hold the middle power button for approximately six seconds until both LED lights flash, then release the button. The lights wireless controller is now in pairing mode to the wireless remote (Figure 5 & Detail B).

5. Next, with the wireless remote in hand, press and hold the power OFF button for six seconds, then the LED light on the remote will flash rapidly. Immediately release the OFF button on the wireless remote. Then, on the lights controller, press and hold the middle power button for 6 seconds until both LED lights turn off. The lights in the ceiling will also turn off. The wireless remote is now paired to control the lights (Figures 5 & 6, Detail B).

6. Test the lights and fans function by pressing the wireless remote ON and OFF buttons. The lights and the fans should both turn on and off simultaneously (Figures 5 & 6, Detail B).



Detail A - Fans Wireless Controller

Detail B - Lights Wireless Controller

Figure 5 - Wireless Controllers

CAUTION

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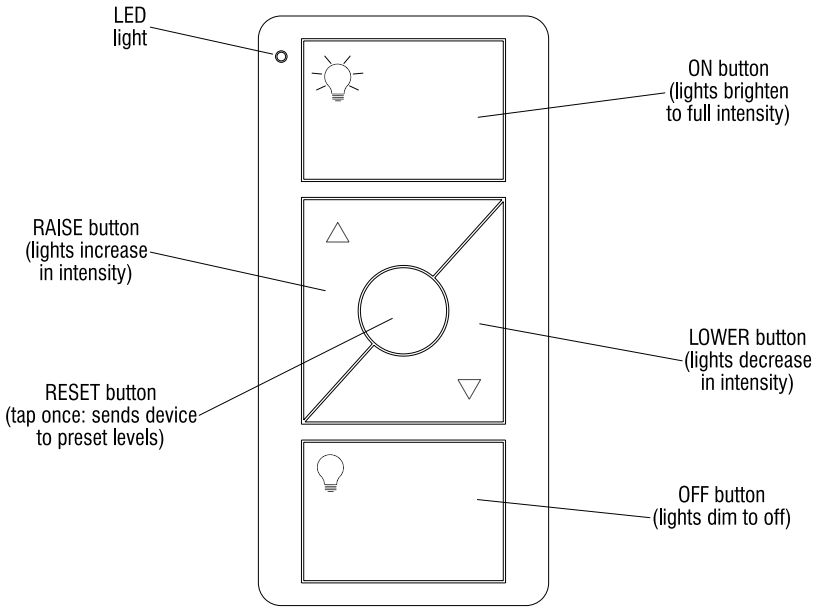

Figure 6 - Wireless Remote

Wireless Remote Operation

7. Reference Figure 2 call outs which identify the wireless remote functions that may be performed after pairing is complete. Fans may only be turned ON, or OFF, with no decrease/increase in fan speed. Lights may be turned on to full intensity, dimmed down in intensity, and raised up in intensity by using the two UP and DOWN buttons. The RESET button sends the lights to preset levels. After a person leaves the room, after a period of time the corner-mounted wireless occupancy sensor will time-out and turn the lights and the fans off. When a person returns to the room, the wireless occupancy sensor turns on the fans, and the lights to the last set levels (Figure 6).

CAUTION

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Pairing of Occupancy Sensor to Fans On/Off Wireless Controller & Lights On/Off/Dim Wireless Controller

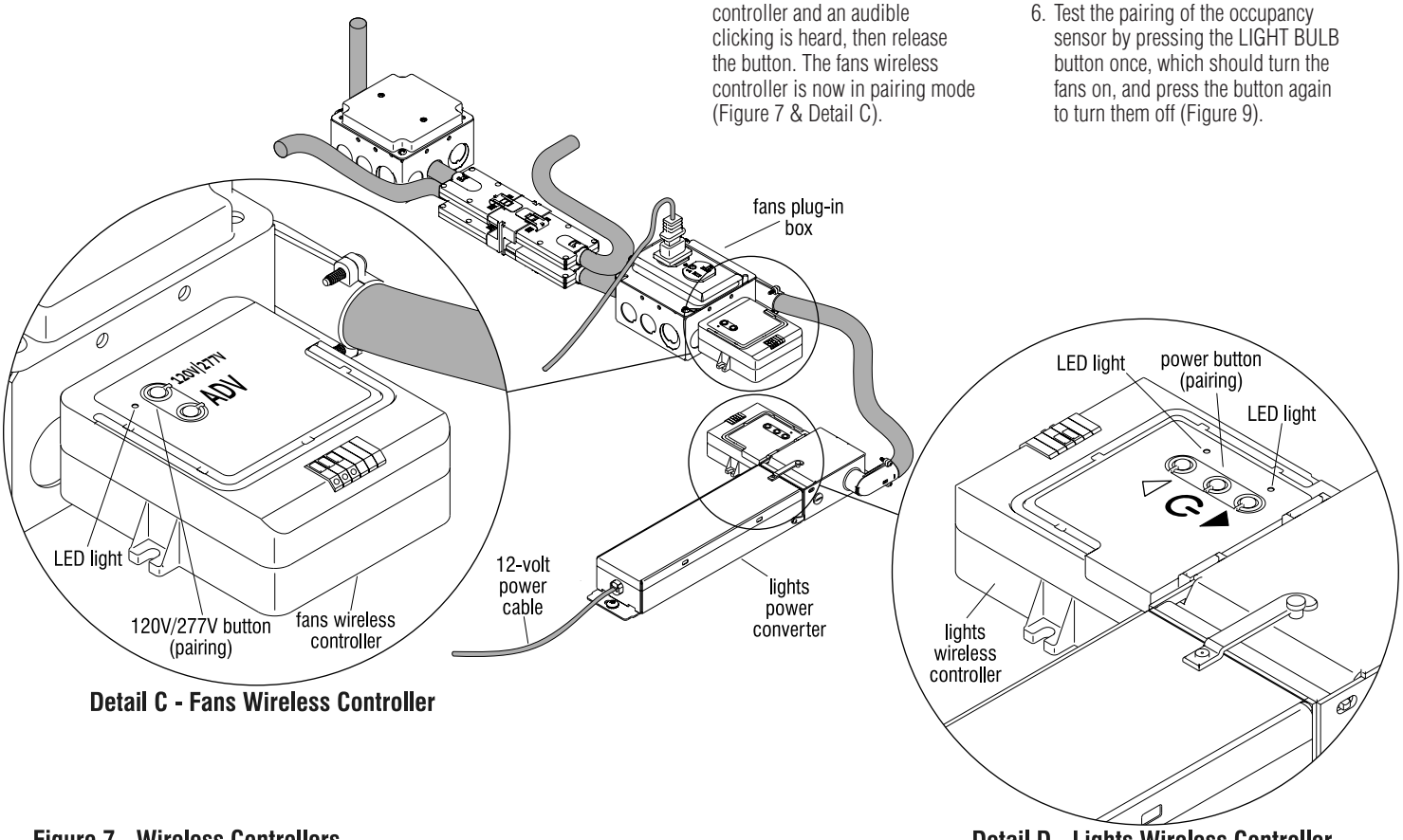
Important: Fans and Lights should be OFF, with no LED lights illuminated on both controllers. If one or more of the controller LED lights are ON it means the lights or fans are running and must be turned off.

Note: The fans on/off wireless controller and the lights on/off/dim wireless controller are part of the electrical control harness assembly which is wired in, and on top of the super structure ceiling. Pairing of the wireless occupancy sensor to both controllers require access to the ceiling. The occupancy sensor can be removed from its mounting bracket when performing the processes above the ceiling.

Pairing of Occupancy Sensor to Fans On/Off Wireless Controller

1. Before pairing the occupancy sensor to the fans wireless controller, the battery must be installed. Then, the sensor must be placed into 1-minute mode, with "Auto On" enabled. To do this, locate the three grey buttons on the back of the occupancy sensor. Set "Timeout" to 1 minute by pressing and holding the "Timeout" button until all three LED indicators blink. Then release the button, and press and hold the same button again until all three LED indicator lights are on steady, then release the button. To confirm that 1-minute mode has been set, press and release the "Timeout" button. All three LED indicator lights will light-up solid (Figure 8).
2. Next, using instructions on the back of the occupancy sensor, set "Activity" to the sitting icon (most sensitive) which will allow lights to stay on with very little motion. Then, set "Auto On" to enabled. This allows the lights to turn on with the fans when occupants enter the room. When an occupant vacates, lights and fans turn off at designated "Timeout" setting. If "Auto On" is disabled, the lights will not turn on with the fans upon entering the room. The lights will need to be manually turned on with the remote switch. Both fans and lights will turn off after vacating the space, with either setting (Figure 8).
3. Then, above the ceiling at the fans wireless controller, press and hold the 120V/277V button for approximately six seconds until the LED light flashes on the controller and an audible clicking is heard, then release the button. The fans wireless controller is now in pairing mode (Figure 7 & Detail C).
4. Next with the occupancy sensor in hand, at the back press and hold the LIGHT BULB button for 8-10 seconds, until the screen flashes red rapidly. Continue holding the button down until the flashing stops, then release the button (Figures 7 & 9, Detail C).

   Note: Failure to hold the LIGHT BULB button down long enough in step 3 above may result in partial pairing. If this happens, a full reset of the fans wireless controller is necessary. See page 90 for instructions.
5. Then, above the ceiling at the fans wireless controller, press and hold the 120V/277V button again, for six seconds until the LED light goes off and the clicking stops. The occupancy sensor is now paired to the fans only (Figure 7 & Detail C).
6. Test the pairing of the occupancy sensor by pressing the LIGHT BULB button once, which should turn the fans on, and press the button again to turn them off (Figure 9).



Detail C - Fans Wireless Controller

Detail D - Lights Wireless Controller

Figure 7 - Wireless Controllers

CAUTION

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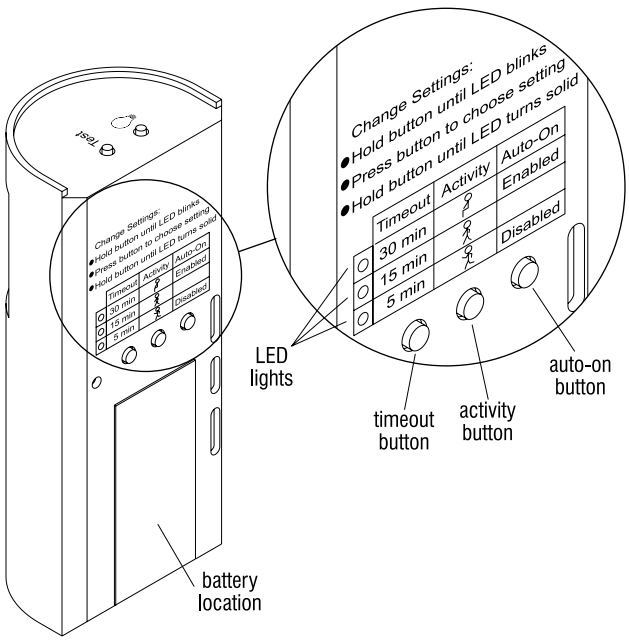

Figure 8 - Occupancy Sensor Back

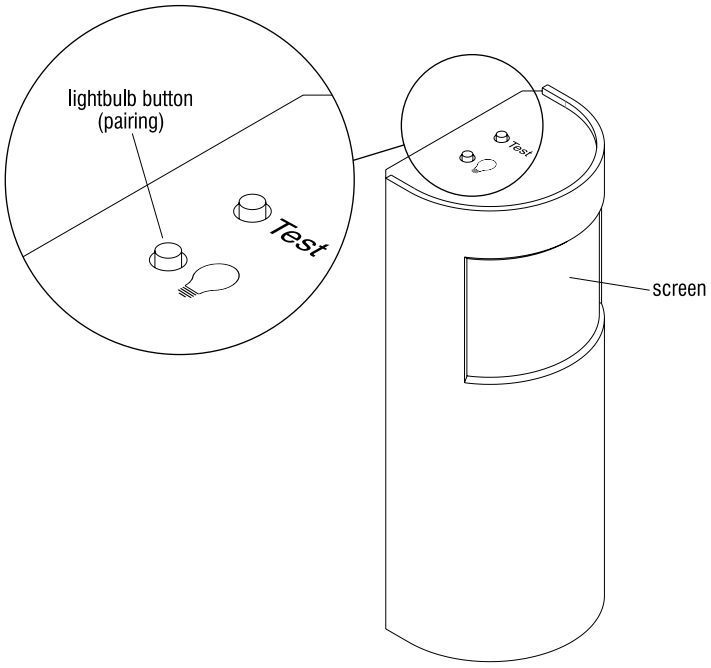

Figure 9 - Occupancy Sensor Top

Pairing of Occupancy Sensor to Lights On/Dim/Off Wireless Controller

7. Above the ceiling, at the lights wireless controller, press and hold the middle power button for approximately six seconds until both LED lights flash, then release the button. The lights wireless controller is now in pairing mode (Page 88, Figure 7 & Detail D).

8. Next, with the occupancy sensor in hand, press and hold the LIGHTBULB button for 8-10 seconds, until the screen flashes red rapidly. Continue holding the button down until the flashing stops, then release the button (Figures 7 & 9, Detail C).

   Note: Failure to hold the LIGHTBULB button down long enough in step 7 above may result in partial pairing. If this happens, a full reset of the fans wireless controller is necessary. See page 90 for instructions.

9. Once the occupancy sensor is paired to the lights controller, press and hold the middle power button on the controller until the LED lights turn off to exit pairing mode (Figure 7 & Detail D).

10. Test the pairing of the occupancy sensor by pressing the LIGHTBULB button once, which should turn the fans and lights on, then press the button again to turn them off (Figure 9).

11. Once pairing is complete and confirmed, reference the occupancy sensor's manufacturer's instructions and set the desired Timeout and Auto-On settings on the back of the occupancy sensor. Then re-install the occupancy sensor onto the mounting bracket in the room (Figure 8).

CAUTION

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Resetting of the Fans Wireless Controller & Lights Wireless Controllers Overview

Note: Fans and Lights should be OFF. Fans can be turned off by pressing the 120V/277V button on the fans on/off wireless controller until the LED light on the controller turns off. The Lights can be turned off by pressing the power button on the lights on/off/dim wireless controller until both LED lights on the controller are turned off (Figure 10, Details E & F)

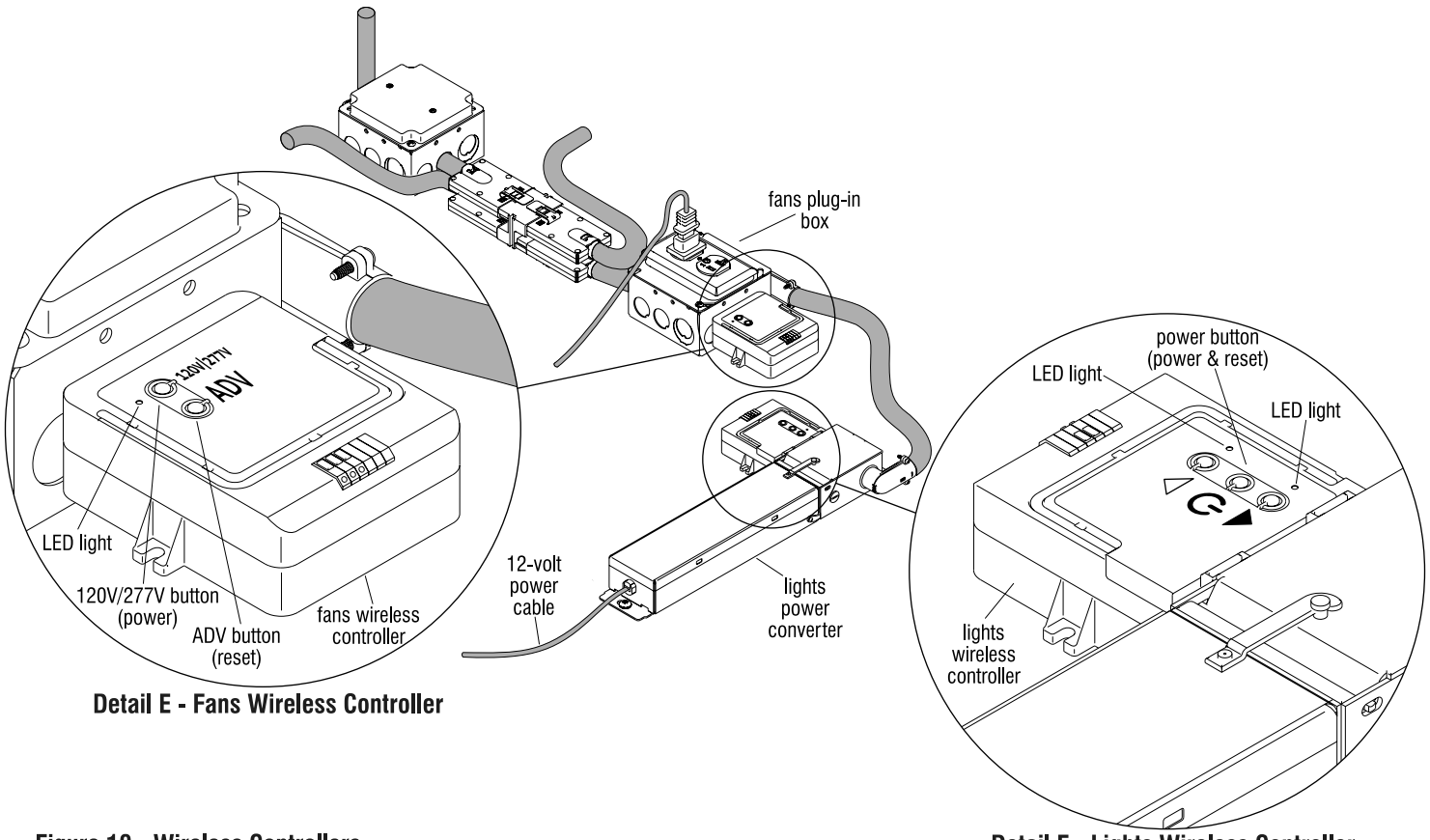
Note: The fans on/off wireless controller and the lights on/off/dim wireless controller are part of the electrical control harness assembly which is wired in, and on top of the super structure ceiling. Pairing of the wireless functions remote to both controllers require access to the ceiling. The wireless remote can be removed from its mounting bracket when performing the processes above the ceiling.

Reset of Fans On/Off Wireless Controller

1. Above the ceiling, at the fans wireless controller, initiate a reset by pressing the ADV button four times, and hold the button down at the fourth press for six seconds until the LED light starts to flash, then release the button immediately. Quickly press and release the button three more times. The fans wireless controller LED light will then turn off after a few seconds. The controller is now reset (Figure 10 & Detail E).

Reset of Lights On/Dim/Off Wireless Controller

2. Above the ceiling, at the lights wireless controller, initiate a reset by pressing the middle power button four times, and hold the button down at the fourth press for six seconds until both LED lights starts to flash, then release the button immediately. Quickly press and release the button three more times. LED lights on the controller will both turn off after a few seconds. The controller is now reset (Figure 10 & Detail F).



Detail E - Fans Wireless Controller

Figure 10 - Wireless Controllers

Detail F - Lights Wireless Controller

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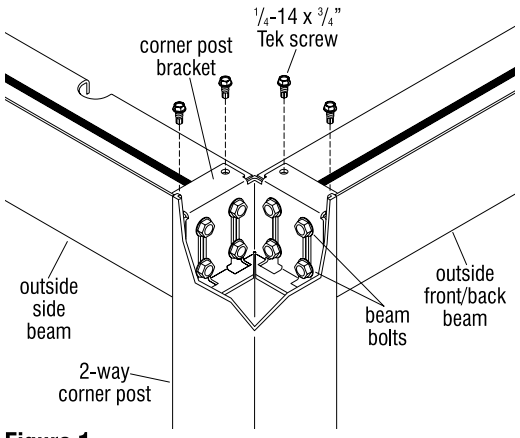

Figure 1

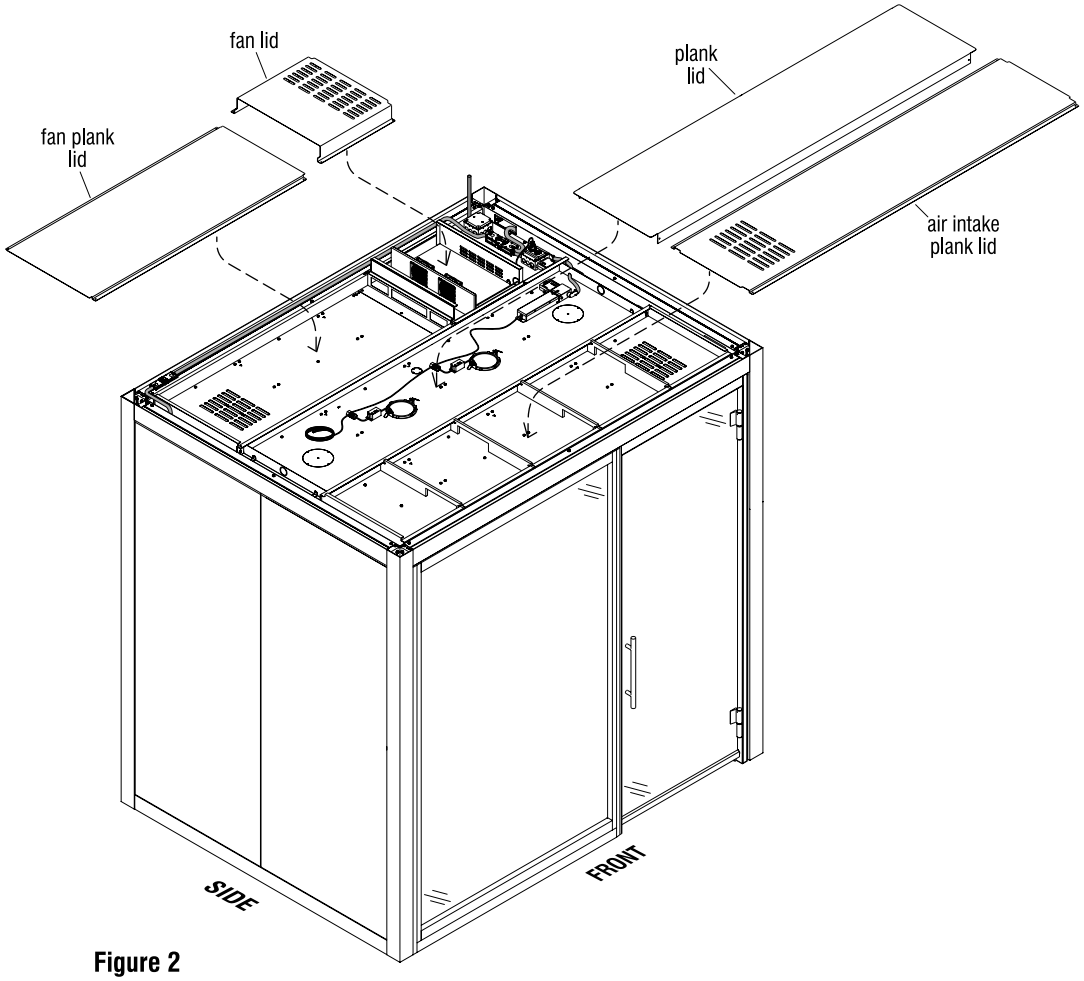

Figure 2

Beam Bolts Tightening

1. Once all components are in place, assure that the posts are plumb, square and tight to the beam at the top. Then, on top of each post, hold the corner post bracket down so there are no gaps and tighten all beam bolts, securing each corner post bracket to the corner post and beams. Repeat this process at the top of all corner posts (Figure 1).

2. Next, install the 1/4-14 x 3/4" self-tapping Tek screws through the pre-drilled holes of the bracket and into the beams to secure (Figure 1).

Ceiling Plank Lid Installation

3. Using two people, lift all previously removed lids and set them into place on the ceiling (Figure 2).

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