Assembly Instructions

Connection Zone® Collection

Benching, Desks & Tables

October 2024

Furnishing Knowledge®

Single-Sided Benching & Single Beam Wood Leg Units

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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-Sided Benching & Single Beam Units - General Assembly Overview

Note: If the Connection Zone being assembled is a single-sided benching unit, continue following the instructions on this page. If the unit being assembled is a single-sided café height benching unit, proceed to the instructions on page 6. If the unit being assembled is a single beam wood leg unit, proceed to the instructions on page 8.

Single-Sided Benching - General Assembly

1. Carefully unpack Connection Zone components, review the space-planning layout and study Figures 1 & 2 to identify parts to assemble. Position all legs and beams onto the floor per the space-planning layout (Figures 1 & 2).

Note: Legs for 24" table depths (not shown) are non-handed, so can be used on either the right- or left-hand side. Legs for 30" table depths (right- & left-hand specific) will have off-center beam-mount brackets at the horizontal top. The longer horizontal member must be positioned toward the user side, as does each beam's tall-wall side (Figure 1).

Note: Beams are adjustable in length and have a **"tall-wall" side, which must be positioned to face the intended user.**

2. With the tall-wall side of the beam positioned correctly facing the user-side, insert the beam ends into the beam-mount brackets at the top of each correctly positioned right- and left-hand "end" leg. Using a 1½" diameter, weighted hard-rubber mallet, tap down on the vertical wall at the mounting end of the beam until you hear the beam bottom-out, so it is properly nested in the support leg mounting bracket (do not hammer on the ½" formed top flange) (Figure 1).

Note: If installation requires intermediate legs with additional beams for multiple worksurfaces (as most do), see Figure 2 (next page) and follow step 3 below. All beams must be installed to intermediate and end legs before attaching worksurface brackets.

3. Intermediate legs (with two beam-mount brackets per leg) are used in multiple top, "adder" runs of worksurfaces (Figure 2). Attach beams to intermediate legs per the space-planning layout and as described in step 2 (Figure 2).

Note: Figure 1 shows end legs only, with "fixed end" worksurface brackets being installed. Figure 2 shows an intermediate worksurface bracket (a wider bracket) installing to an "intermediate" leg (as well as "end" legs and end worksurface brackets).

4. Install worksurface brackets to the "beam-mount brackets" on the horizontal top of each leg. As illustrated, center the worksurface bracket over the beam-mount bracket and secure using (two or four, depending on bracket) M8 x 20mm hex-drive screws (Figures 1 & 2).

Important: For **beams that are 36" to 42"** in length, no L-plate is required and only two threaded locking plates with two M6 x 15mm Torx screws are used **(see inset detail, Figure 1)**.

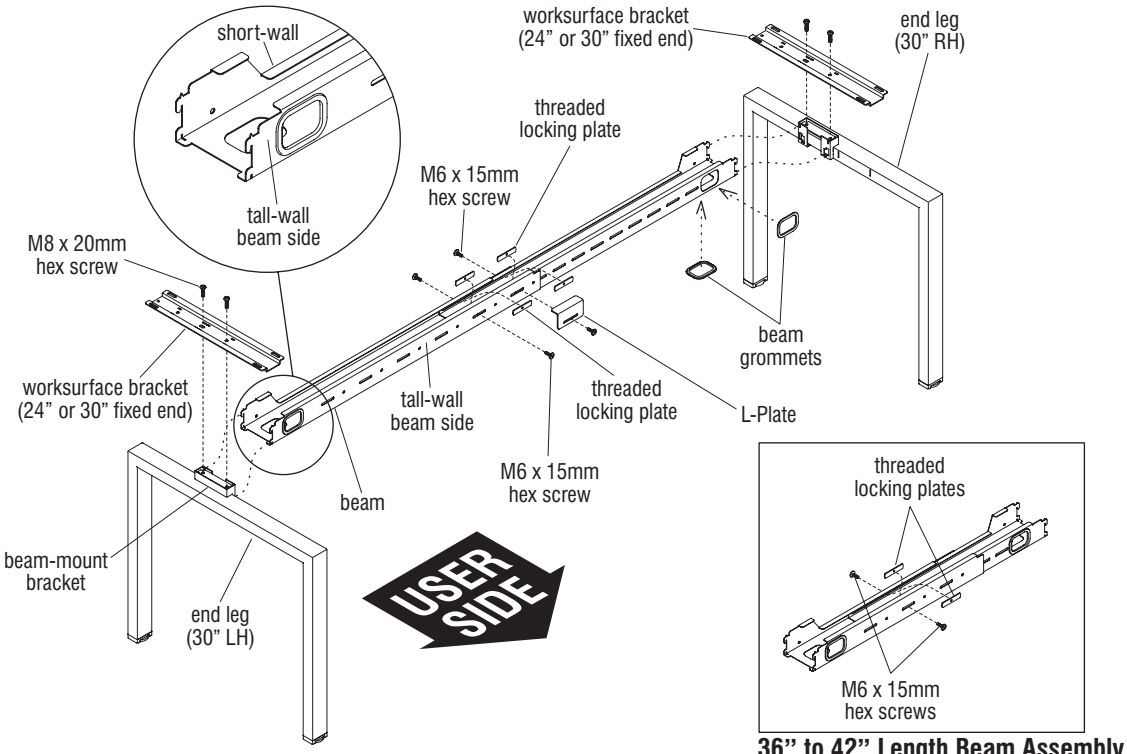


Figure 1 - Single-Sided Fixed Benching End Legs & Beams

36" to 42" Length Beam 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.

Single-Sided Benching - General Assembly (cont.)

5. Per the space-planning layout and worksurface length to be supported, stretch the legs out (extending the beam) to the distance matching the length of the worksurface(s). **To achieve the correct length, measure from the far outside end of one end leg to the far outside end of the opposite end leg, or to the center of an intermediate leg** if an adder is used (Figures 1 & 2).

6. Locate the beam hardware parts bag which contains four threaded locking plates, four M6 x 15mm hex-drive screws and four plastic beam grommets. As illustrated, at the center of each beam place four threaded locking plates inside the beam area at mounting hole/slot locations. From outside the beam at two slot locations on the short-wall side and at one slot location at the tall-wall side, insert three M6 x 15mm hex-drive screws through the beam mounting holes and into the threaded locking plates. At an additional tall-wall slot location, install the corrcet L-Plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others.
Important: The screws, when installed into holes and slots should allow at least $^1/_4$" of side-to-side play, and be located nearest the ends of both inner and outer members to provide the greatest stability. Twist screws in only finger-tight at this time (Figures 1 & 2).

Note: If beam is 36" to 42" in length, no L-Plate is required. If beam is 48" to 72" in length, install a $^1/_8$" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is 72" to 96" in length, install a $^1/_4$" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is installed to a sliding top, L-Plate will include slippery tape at the top. If installation consists of a mix of sliding and fixed tops, take care to not mix up the L-Plates.

7. At both ends of the beam, on the tall-wall side and at the beam underside, install two plastic beam grommets into the wire-access holes, positioning the larger flange to the outside when nesting into place (Figures 1 & 2).

8. Proceed to "Single-Side Benching or Single Beam Units - Worksurface Assembly Overview" instructions on page 9.

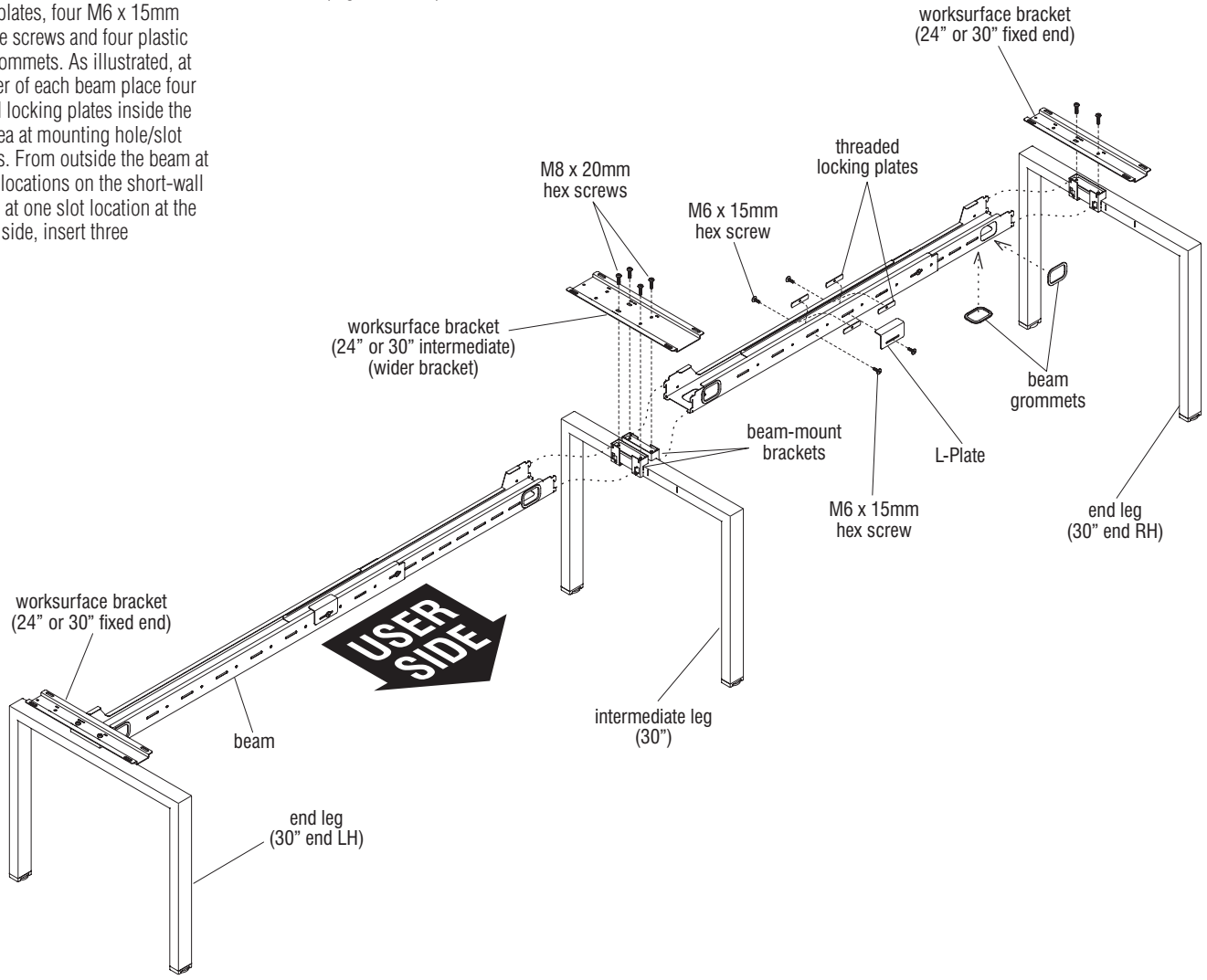


Figure 2 - Single-Sided Fixed Benching, Multiple Worksurface "Adder" Legs & Beams

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-Sided Café Height Benching - General Assembly

1. Carefully unpack Connection Zone café height components, review the space-planning layout and study Figures 3 & 4 to identify parts to assemble. Position café height legs and beams onto the floor per the space-planning layout (Figures 3 & 4).

   Note: Legs for 24" table depths (not shown) are non-handed, so can be used on either the right- or left-hand side. Legs for 30" table depths will have off-center beam-mount brackets at the horizontal top. The longer horizontal member must be positioned toward the user side, as does each beam's tall-wall side (Figure 3).

   Note: Beams are adjustable in length and have a **"tall-wall" side, which must be positioned to face the intended user.**

   Note: Café height legs have two beam mount brackets per leg for better worksurface support.

2. With the tall-wall side of the beam positioned correctly facing the user-side, insert the beam ends into the beam-mount brackets at the top of each correctly positioned leg. Using a 1½" diameter, weighted hard-rubber mallet, tap down on the vertical wall at the mounting end of the beam until you hear the beam bottom-out, so it is properly nested in the support leg mounting bracket (do not hammer on the ½" formed top flange) (Figure 3).

   Note: If installation requires shared location legs with additional beams for multiple worksurfaces (as most do), see Figure 4 (next page) and follow step 3 below. All beams must be installed to legs before attaching worksurface brackets.

3. Shared location café height legs are used in multiple top, "adder" runs of worksurfaces (Figure 4). Attach beams to shared leg locations per the space-planning layout and as described in step 2 (Figure 4).

4. Before worksurface brackets are installed, attach beam pocket covers to the exposed beam-mount brackets on the outside of the left and right end location legs.

5. Install worksurface brackets to the "beam-mount brackets" on the horizontal top of each leg. As illustrated, center the worksurface bracket over the beam-mount bracket and secure using four M8 x 20mm hex-drive drive screws (Figures 3 & 4).

Important: For **beams that are 36" to 42"** in length, no L-plate is required and only two threaded locking plates with two M6 x 15mm Torx screws are used **(see inset detail, Figure 3)**.

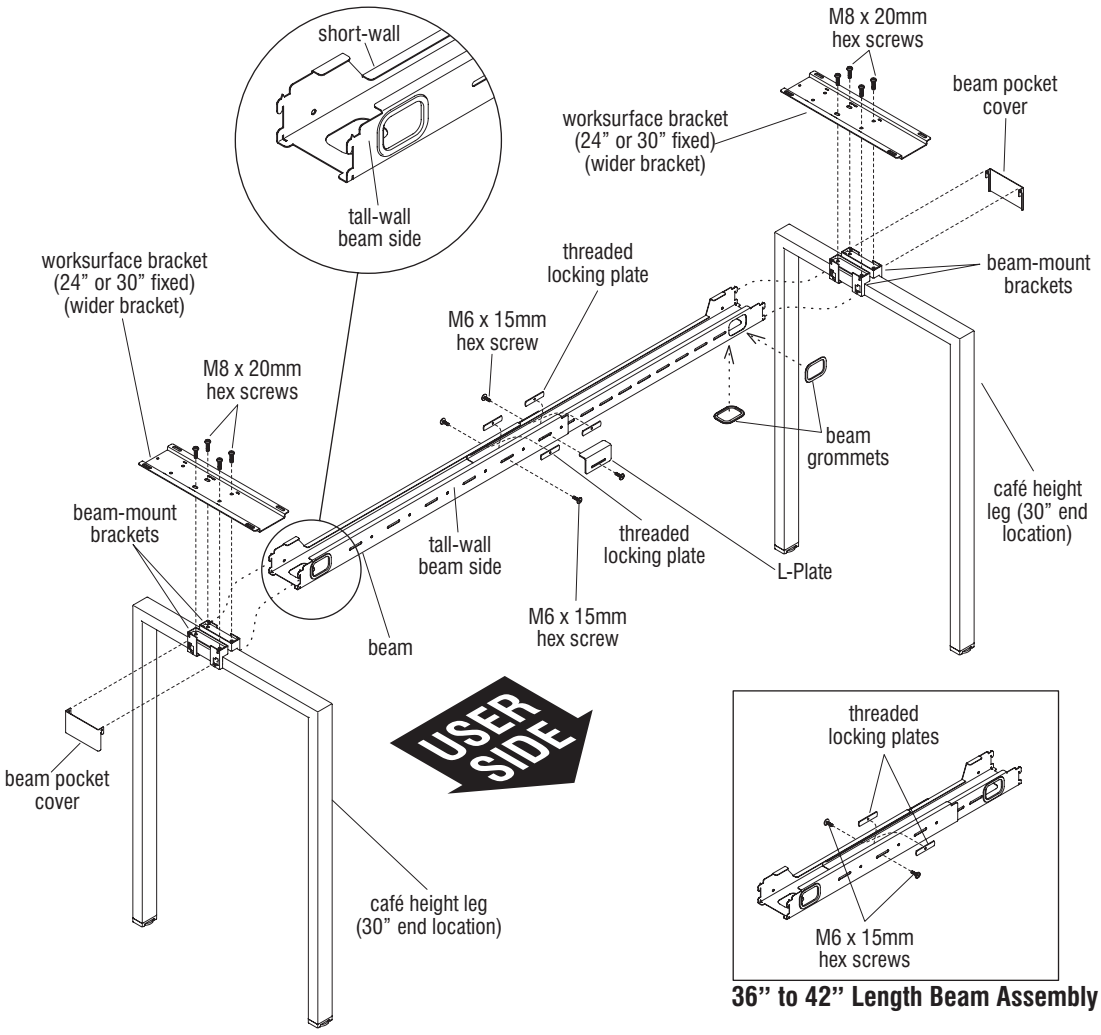


Figure 3 - Single-Sided Fixed Café Height Benching Support Legs & Beams

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-Sided Café Height Benching - General Assembly (cont.)

6. Per the space-planning layout and worksurface length to be supported, stretch the legs out (extending the beam) to the distance matching the length of the worksurface(s). **To achieve the correct length, measure from the far outside end of one end worksurface bracket to the far outside end of the opposite end worksurface bracket, or to the center of a shared location leg** if an adder is used (Figures 3 & 4).

7. Locate the beam hardware parts bag which contains four threaded locking plates, four M6 x 15mm hex-drive screws and four plastic beam grommets. As illustrated, at the center of each beam place four threaded locking plates inside the beam area at mounting hole/slot locations. From outside the beam at two slot locations on the short-wall side and at one slot location at the tall-wall side, insert three M6 x 15mm hex-drive screws through the beam mounting holes and into the threaded locking plates. At an additional tall-wall slot location, install the correct L-Plate. If beam is 36" to 42" in length, no L-Plate is required. If beam is 48" to 72" in length, install a 1/8" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is 72" to 96" in length, install a 1/4" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is installed to a sliding top, L-Plate will include slippery tape at the top. If installation consists of a mix of sliding and fixed tops, take care to not mix up the L-Plates.

Note: If legs/beams assembly will support a "teaming table top" see page 41 instructions. The installed location of the L-plate must not interfere with grommet location in the top.

Important: The screws into threaded locking plates, when installed into holes and slots should allow at least 1/4" of side-to-side play, and be located nearest the ends of both inner and outer members to provide the greatest stability. Twist screws in only finger-tight at this time (Figures 3 & 4).

8. At both ends of the beam, on the tall-wall side and at the beam underside, install two plastic beam grommets into the wire-access holes, positioning the larger flange to the outside when nesting into place (Figures 3 & 4).

9. Proceed to "Single-Side Benching or Single Beam Units - Worksurface Assembly Overview" instructions on page 9.

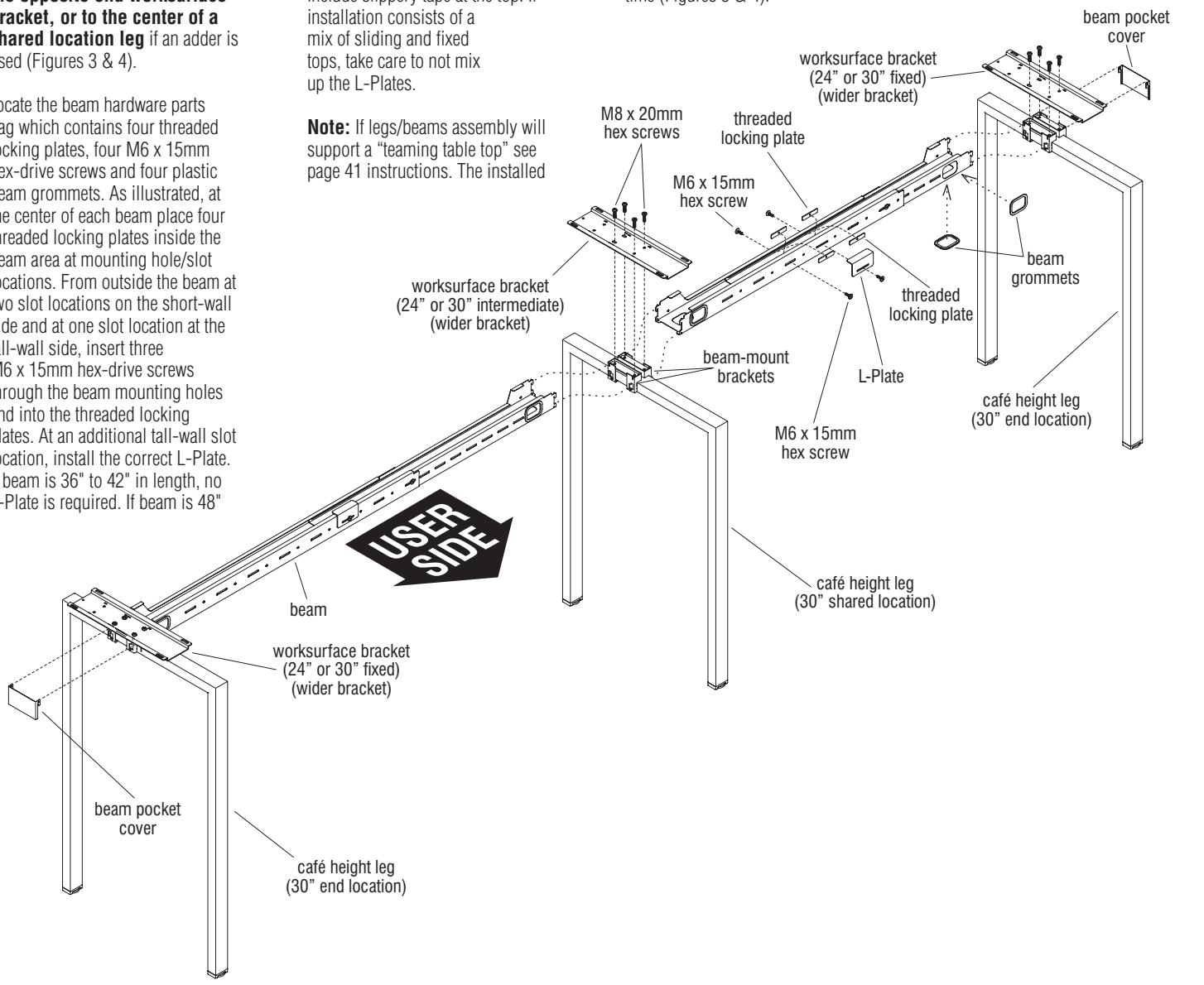


Figure 4 - Single-Sided Fixed Café Height Benching, Multiple Worksurface (Adder) Legs & Beams

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 Beam Wood Leg Unit - General Assembly

1. Carefully unpack Connection Zone components, review the space-planning layout and study Figures 5 & 6 to identify parts to assemble. Position all legs and beams onto the floor per the space-planning layout (Figures 5 & 6).

   Note: Beams are adjustable in length and have a **"tall-wall" side, which must be positioned to face the intended user.**

2. Locate the wood leg benching end leg hardware parts bag. Thread each M8 x 30mm set screw into a M8 threaded cap to create the M8 x 40mm set screw assemblies for the next step (Figure 5).

3. Align the holes of the wood leg uprights with the holes on the single beam wood leg apron. Insert and tighten four M8 x 40mm set screw assemblies through the leg and correctly positioned apron (Figure 5).

3. With the tall-wall side of the beam positioned correctly facing the user-side, insert the beam ends into the beam-mount brackets at the top of each leg. Using a 1½" diameter, weighted hard-rubber mallet, tap down on the vertical wall at the mounting end of the beam until you hear the beam bottom-out, so it is properly nested in the support leg mounting bracket (do not hammer on the ½" formed top flange) (Figure 6).

4. Install worksurface brackets to the "beam-mount brackets" on the horizontal top of each leg. As illustrated, center the worksurface bracket over the beam-mount bracket and secure using two M8 x 20mm hex-drive screws (Figure 6).

5. Per the space-planning layout and worksurface length to be supported, stretch the legs out (extending the beam) to the distance matching the pilot holes of the worksurface(s) (Figure 6).

6. Locate the beam hardware parts bag which contains four threaded locking plates, four M6 x 15mm hex-drive screws and four plastic beam grommets. As illustrated, at the center of each beam place four threaded locking plates inside the beam area at mounting hole/slot locations. From outside the beam at two slot locations on the short-wall side and at one slot location at the tall-wall side, insert three M6 x 15mm hex-drive screws through the beam mounting holes and into the threaded locking plates. At an additional tall-wall slot location, install the correct L-Plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others.
   Important: The screws, when installed into holes and slots should allow at least ¼" of side-to-side play, and be located nearest the ends of both inner and outer members to provide the greatest stability. Twist screws in only finger-tight at this time (Figure 6).

   Important: If beam is 36" to 42" in length, no L-Plate is required. If beam is 48" to 72" in length, install a ⅛" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is 72" to 96" in length, install a ¼" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others (see inset detail, Figure 6).

7. At both ends of the beam, on the tall-wall side and at the beam underside, install two plastic beam grommets into the wire-access holes, positioning the larger flange to the outside when nesting into place (Figure 6).

8. Proceed to "Single-Side Benching or Single Beam Units - Worksurface Assembly Overview" instructions on page 9.

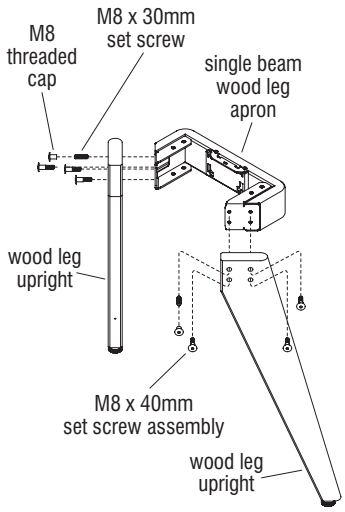


Figure 5 - Single Beam Wood Leg Unit - End Legs

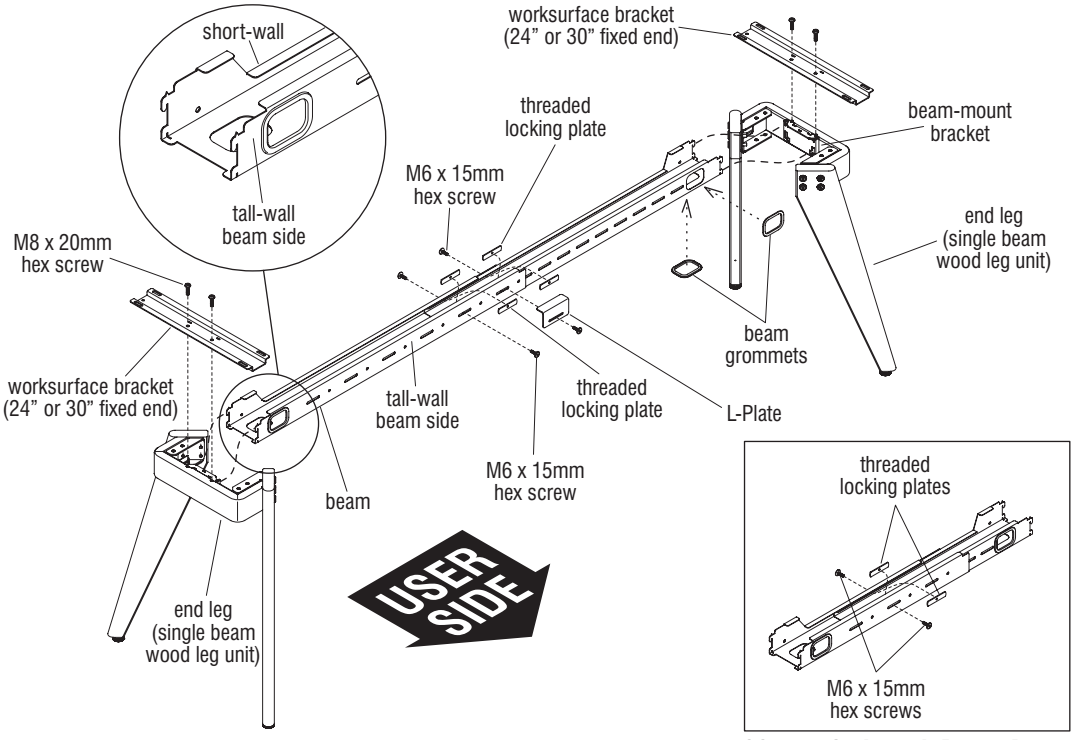


Figure 6 - Single Beam Wood Leg Unit - Legs & Beam Assembly

36" to 42" Length Beam 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.

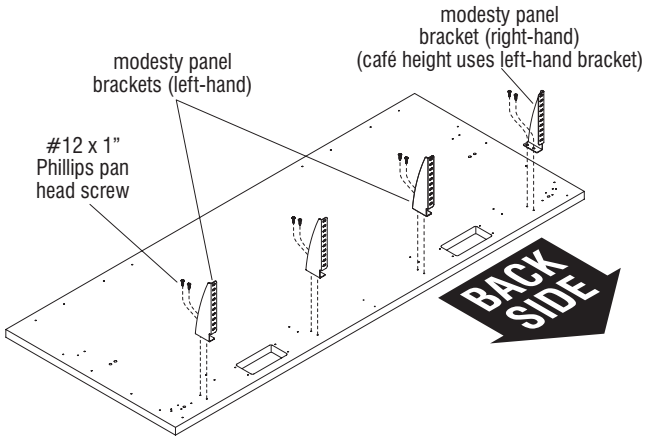


Figure 1 - Single-Sided Fixed Benching, with Modesty Panels (Pattern Electrical or with No Power)

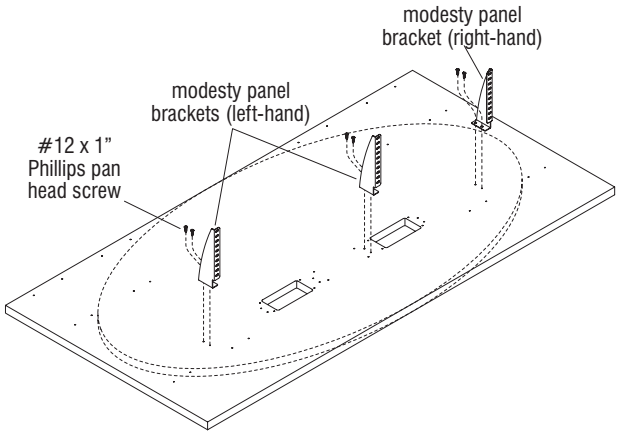


Figure 2 - Single Beam Wood Leg Desk, with Modesty Panels (Pattern Electrical or with No Power)

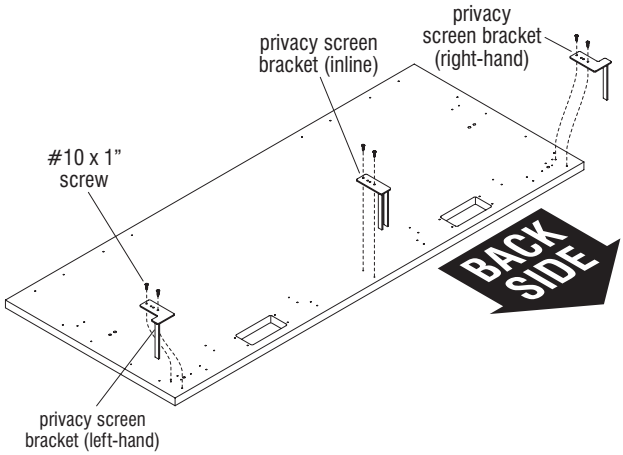


Figure 3 - Single-Sided Fixed Benching, with Privacy Screens (Pattern Electrical or with No Power)

Single-Sided Benching or Single Beam Units - Worksurface Preparations Overview

Important: If the Connection Zone being assembled includes modesty panels or privacy screens with Pattern electrical, or no power, continue following the instructions on this page (Figures 1, 2 & 3). If the Connection Zone unit includes Pattern electrical, or no power but does not include privacy screens or modesty panels, proceed to the instructions on page 15. If the Connection Zone unit includes 10-wire electrical, proceed to the instructions on pages 10 & 11 and pre-assemble electrical and modesty panel brackets or privacy screen brackets before installing worksurfaces to legs and beams (Figures 4 & 5). If the Connection Zone unit includes hardwired electrical, proceed to the instructions on page 13 and pre-assemble hardwire junction box mounting brackets and lock brackets or modesty panel brackets before installing worksurfaces to legs and beams (Figures 9 & 10).

Single-Sided Fixed Benching & Single Beam Units with Pattern Electrical, or No Power - Privacy Screen & Modesty Panel Brackets Installation

Note: Modesty panel brackets and privacy screen brackets must be installed to the underside of each worksurface specified with Pattern electrical, or no power before attaching worksurface to legs and beams. Modesty panels are shipped with multiple left-hand mounting brackets and only one right-hand bracket. Use the right-hand bracket only at a right-hand location.

Important: Café height tables will not use the one "right-hand" modesty panel bracket as illustrated in Figure 1 on this page. Only left-hand modesty panel brackets will be specified as illustrated in Figure 3, page 40.

1. Determine the correct mounting locations of the right- and left-hand modesty panel brackets at the pre-drilled locations on the underside of the worksurface. Secure each bracket using two #12 x 1" Phillips pan head screws (Figures 1 & 2).

   Note: Single-sided "inline" privacy screen brackets will be specified if a 60" or longer worksurface is to have more than one privacy screen installed at the back, such as when a worksurfce top is separated by dividers into study carols as illustrated in Figure 4, page 37.

2. If the Connection Zone being assembled includes privacy screens, privacy screen brackets must be installed at this time. Locate the pre-drilled mounting holes for the right-, left-hand & inline (if specified) privacy screen brackets at the underside of the worksurface. Secure each bracket using two #10 x 1" screws as illustrated (Figure 3).

   Note: If Single-Sided Fixed Benching or Single Beam Wood Leg Desks with power modules for Pattern electrical or no power are specified, go now to page 15 for installation of worksurfaces to legs and beams.

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-Sided Fixed Benching with 10-Wire Electrical - Worksurface Preparations

Note: If 10-wire electrical is specified by the space-planning layout, 10-wire components must be pre-assembled to underside of worksurface prior to installing worksurface to legs and beams.

1. Position 10-wire rigid wireway(s) over pre-drilled holes in underside of worksurface. **Important:** The tabs on the wireway mounting brackets must be located toward the back side of the worksurface when the 10-wire rigid wireway is installed to worksurface. Secure rigid wireway(s) to underside of worksurface with four #10 x $^5/_8$" screws per wireway (Figure 4).

2. If more than one wireway is installed to the underside of the worksurface, a 10-wire jumper must be installed between the wireways. Plug the 10-wire jumper in between the rigid wireways and **it is important to bend the excess cable toward the user-side** to keep clear of the grommet hole in the worksurface (Figure 4).

3. Per the space-planning layout, insert receptacles into the 10-wire rigid wireways at the side facing the user. When installed and worksurfaces are upright, the circuit numbers will be upside down (Figure 4).

Note: If the 10-wire powered worksurface(s) being assembled does not require modesty panels, proceed to the next page. If the powered worksurface(s) requires modesty panels, proceed to page 12.

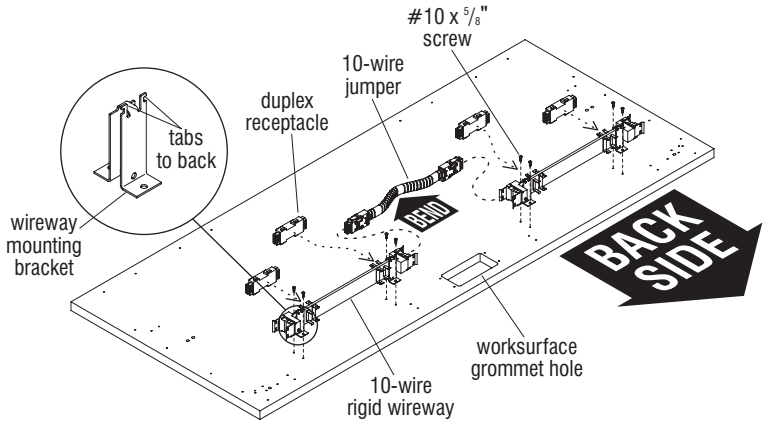


Figure 4 - Single-Sided Fixed Benching with 10-Wire Electrical

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.

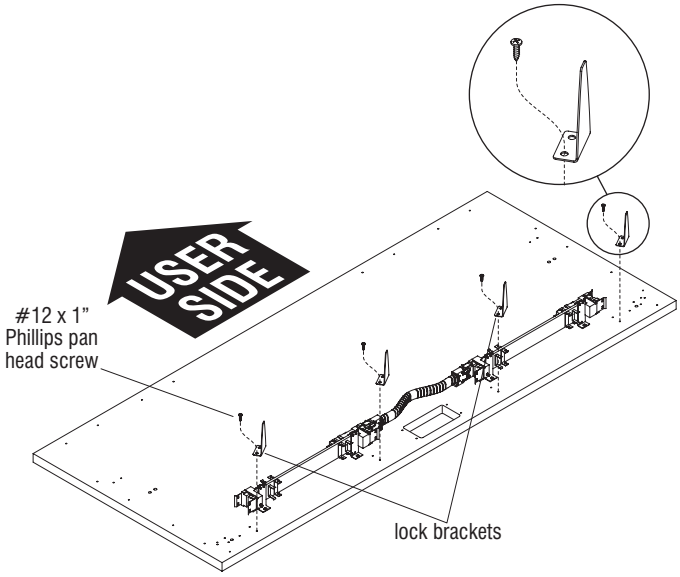


Figure 5 - Single-Sided Fixed Benching with 10-Wire Electrical & No Modesty Panels

Single-Sided Fixed Benching with 10-Wire Electrical & No Modesty Panels - Lock Brackets Installation

Note: When 10-wire electrical is installed under a worksurface and no modesty panels are specified, "lock brackets" must be installed to help keep the power access door in position. The brackets are to be rotated as illustrated (Figure 5) and installed at this time using only the rear-most screw/mounting location. This allows for clearance to install the power access doors which will be installed at a later step.

4. To determine the correct mounting locations, position the power access door lock brackets over pre-drilled holes at underside of worksurface. Rotate the brackets such that only the rear-most bracket mounting hole is over the pre-drilled rear hole in the worksurface and attach all brackets not quite snug to worksurface with one #12 x 1" Phillips pan head screw (Figure 5).

5. To install worksurfaces to support frames and beams, proceed to "Single-Sided, Fixed, Multiple Top Benching or Single Beam Wood Leg Unit Worksurface Installation" instructions on page 15.

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-Sided Fixed Benching with 10-Wire Electrical & Modesty Panels - Privacy Screen & Modesty Panel Brackets Installation

Note: When modesty panels are to be installed under a worksurface that includes 10-wire electrical, the brackets are to be rotated as illustrated (Figure 6) and installed at this time using only the rear-most screw/mounting location. This allows for clearance to install the power access doors which will be put on at a later step.

Important: Modesty panels are shipped with multiple left-hand mounting brackets and only one right-hand bracket. Use the right-hand bracket only at a right-hand location.

5. To determine the correct mounting locations, position left-hand modesty panel brackets over pre-drilled holes at underside of worksurface. Rotate the left-hand brackets such that only the rear-most bracket mounting hole is over the pre-drilled rear hole in the worksurface and attach bracket almost snug to worksurface with one #12 x 1" Phillips pan head screw. Repeat the process for all remaining left-hand brackets, then install the final right-hand bracket in the same manner (Figure 6).

7. If the Connection Zone being assembled includes privacy screens, privacy screen brackets must be installed at this time. Locate the pre-drilled mounting holes for the right-, left-hand & inline (if specified) privacy screen brackets at the underside of the worksurface. Secure each bracket using two #10 x 1" screws as illustrated (Figure 7).

8. To install worksurfaces to support frames and beams, proceed to "Single-Sided, Fixed, Multiple Top Benching or Single Beam Wood Leg Unit Worksurface Installation" instructions on page 15.

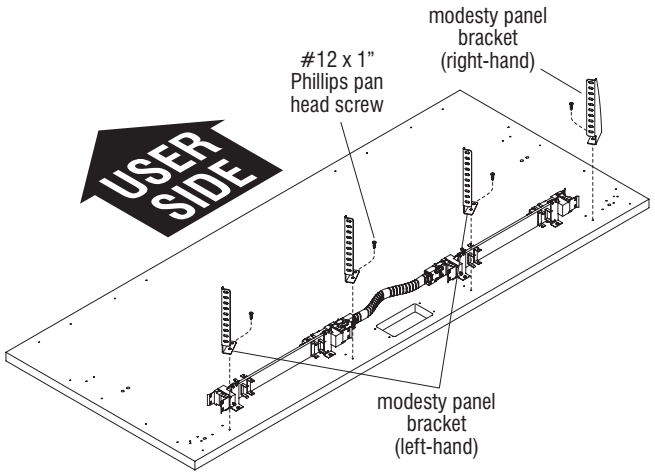


Figure 6 - Single-Sided Fixed Benching with 10-Wire Electrical & Modesty Panels

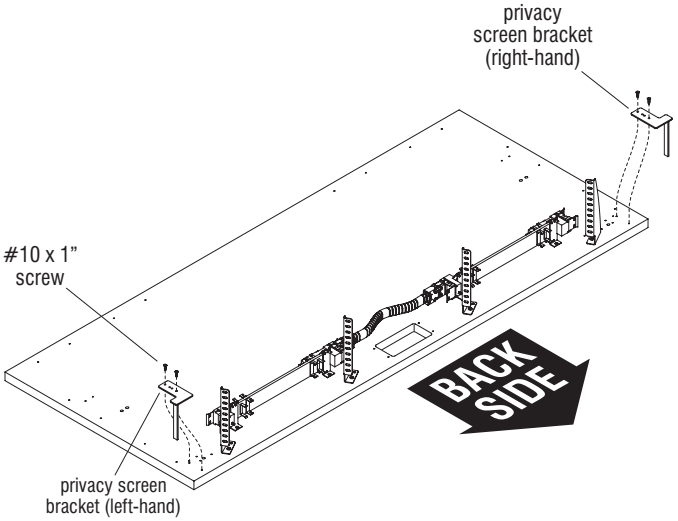


Figure 7 - Single-Sided Fixed Benching with 10-Wire Electrical, Modesty Panels & Privacy Screens

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.

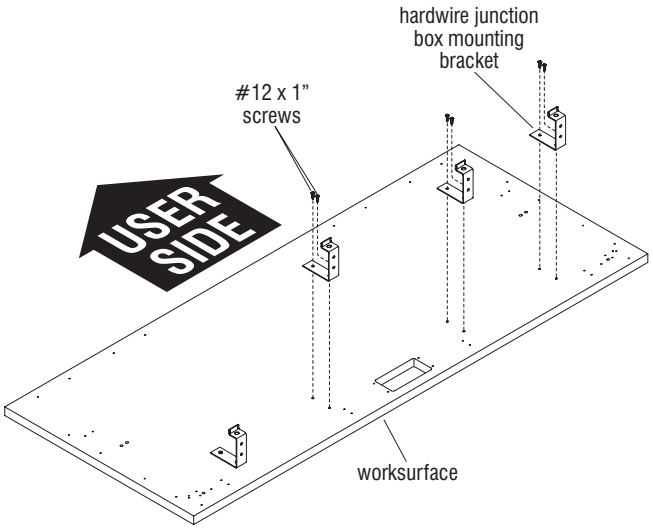


Figure 8

Single-Sided Fixed Benching with Hardwired Electrical - Worksurface Preparations

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All state and local codes at the job site must be followed.

Note: As outlined below, certain brackets, if specified per the space-planning layout, must be installed prior to installing worksurfaces to leg/beam assemblies. Carefully follow all instructions below, beginning with the worksurface(s) upside down on a soft protective surface.

1. Position each hardware junction box mounting bracket as illustrated, over pre-drilled holes in underside of worksurface (two brackets per 36"-72" worksurfaces & four brackets per 78"-96" worksurfaces). **Important:** The open side of the bracket must face the user side of the worksurface. Secure brackets to the underside of the worksurface with two #12 x 1" screws per bracket using a long Phillips screw driver (Figure 8).

2. If modesty panels are required, go now to page 14, follow all notes and instructions (Figure 10). If no modesty panels are specified, reference instructions below on this page to install required lock brackets (Figure 9).

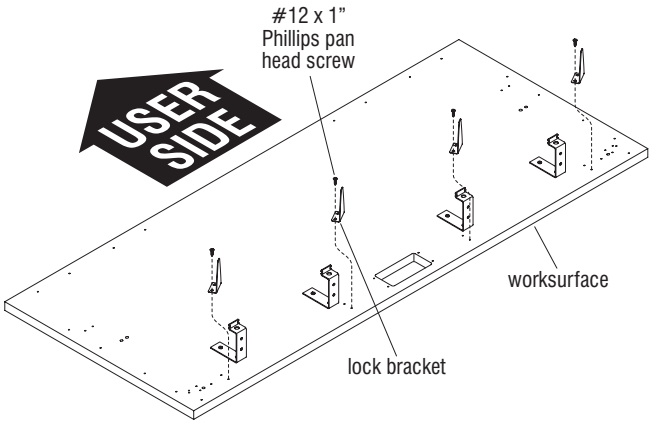


Figure 9 - Single-Sided Fixed Benching with Hardwired Electrical & No Modesty Panels

Single-Sided Fixed Benching with Hardwired Electrical & No Modesty Panels - Lock Brackets Installation

Note: When electrical hardwire is installed under a worksurface and no modesty panels are specified, "lock brackets" must be installed to help keep the power access door in position. The brackets are to be rotated as illustrated (Figure 9) and installed at this time using only the rear-most screw/mounting location. This allows for clearance to install the power access doors which will be installed at a later step.

1. To determine the correct mounting locations, position the power access door lock brackets over pre-drilled holes at underside of worksurface. Rotate the brackets such that only the rear-most bracket mounting hole is over the pre-drilled rear hole in the worksurface and attach all brackets not quite snug to worksurface with one #12 x 1" Phillips pan head screw (Figure 9).

2. To install worksurfaces to support frames and beams, proceed to "Single-Sided, Fixed, Multiple Top Benching or Single Beam Wood Leg Unit Worksurface Installation" instructions on page 15.

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-Sided Fixed Benching with Hardwired Electrical & Modesty Panels - Privacy Screen & Modesty Panel Brackets Installation

Note: When modesty panels are to be installed under a worksurface that includes 10-wire electrical, the brackets are to be rotated as illustrated (Figure 10) and installed at this time using only the rear-most screw/mounting location. This allows for clearance to install the power access doors which will be installed at a later step.

Important: Modesty panels are shipped with multiple left-hand mounting brackets and only one right-hand bracket. Use the right-hand bracket only at a right-hand location.

1. To determine the correct mounting locations, position left-hand modesty panel brackets over pre-drilled holes at underside of worksurface. Rotate the left-hand brackets such that only the rear-most bracket mounting hole is over the pre-drilled rear hole in the worksurface and attach bracket almost snug to worksurface with one #12 x 1" Phillips pan head screw. Repeat the process for all remaining left-hand brackets, then install the final right-hand bracket in the same manner (Figure 10).

2. If the Connection Zone being assembled includes privacy screens, privacy screen brackets must be installed at this time. Locate the pre-drilled mounting holes for the right-, left-hand & inline (if specified) privacy screen brackets at the underside of the worksurface. Secure each bracket using two #10 x 1" screws as illustrated (Figure 11).

3. To install worksurfaces to support frames and beams, proceed to "Single-Sided, Fixed, Multiple Top Benching or Single Beam Wood Leg Unit Worksurface Installation" instructions on the next page.

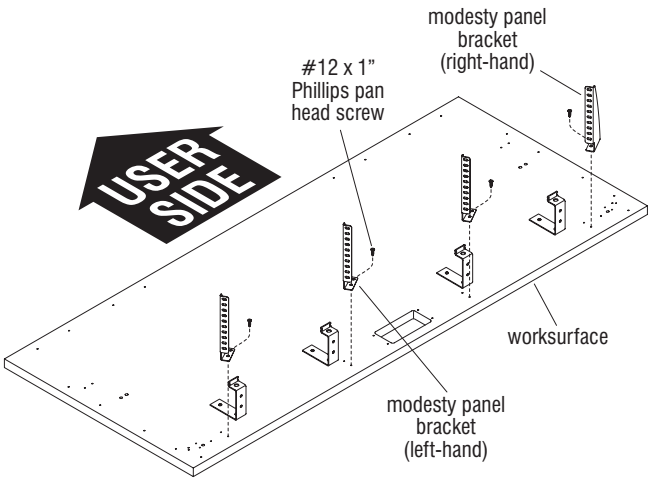


Figure 10 - Single-Sided Fixed Benching with Hardwired Electrical & Modesty Panels

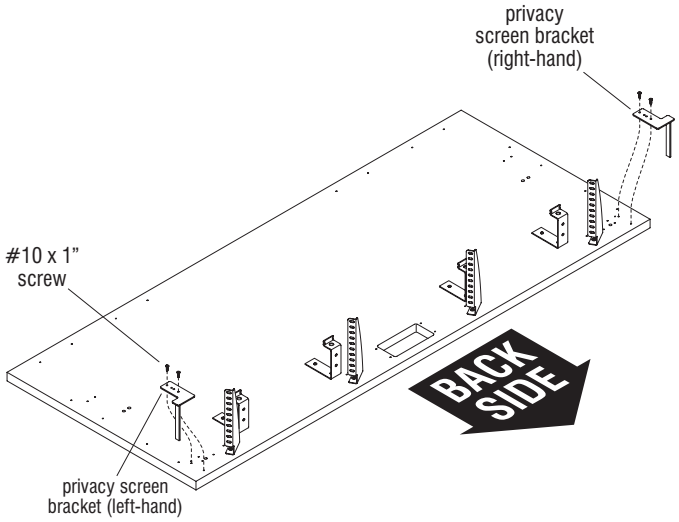


Figure 11 - Single-Sided Fixed Benching with Hardwired Electrical, Modesty Panels & Privacy Screens

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.

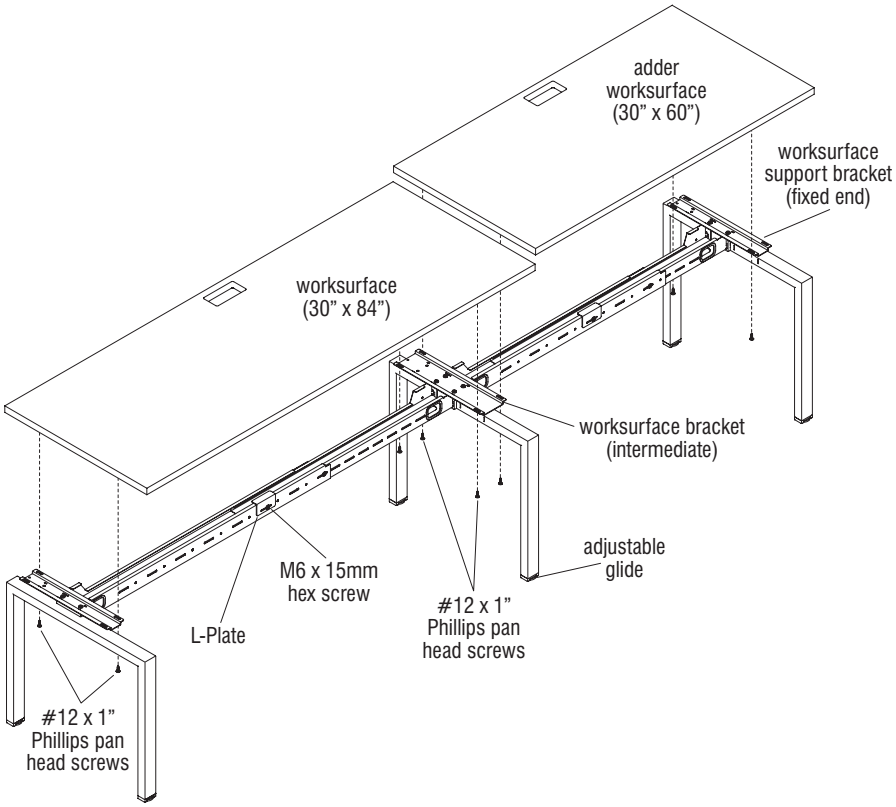


Figure 1 - Single-Sided Fixed Benching, Multiple Top (Adder) - Worksurfaces Installation

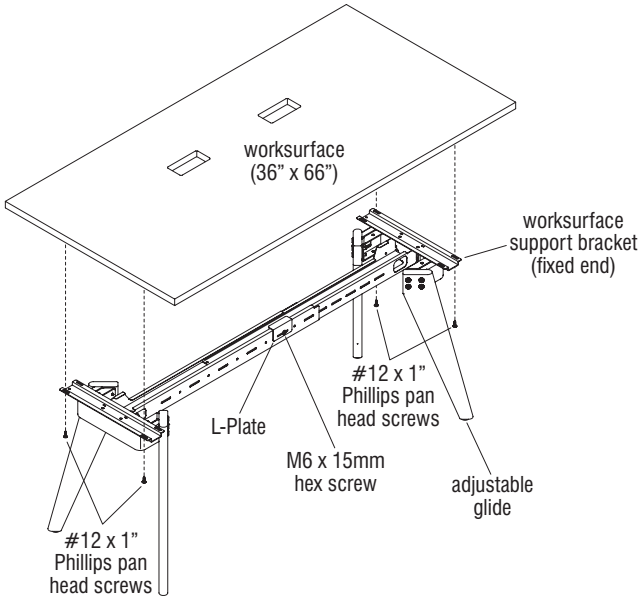


Figure 2 - Single Beam Wood Leg Unit - Worksurface Installation

Single-Sided, Fixed, Multiple Top Benching or Single Beam Wood Leg Unit Worksurface Installation

1. When legs, beams and support brackets are ready for worksurface installation (and if modesty panel brackets and/or privacy screen brackets and/or power supporting components have been installed to worksurfaces, if required), position each worksurface over the installed worksurface brackets, positioning the rear edge of the worksurface flush with the back of the legs. Align the pre-drilled holes in the worksurface with the slots in the worksurface brackets and twist in (two or four) #12 x 1" Phillips pan head screws per bracket only half-way (end worksurface brackets utilize only two screws per bracket) (Figures 1 & 2).

2. Push each worksurface back straight to set the screws tight to the back of the worksurface bracket slots such that the worksurfaces overhang the back of the legs by $^1/_8$", then tighten all #12 x 1" Phillips pan head screws to secure (Figures 1 & 2).

3. Tighten all of the M6 x 15mm hex-drive screws into the threaded locking plates and L-Plates (if required) in the center of the beams (Figures 1 & 2).

4. Finally, position the table(s) at their desired location in the room. To adjust for uneven floor conditions, level the tables by turning the adjustable glides either in or out (Figures 1 & 2).

4. Proceed to "Power Module Overview" instructions on the next page.

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.

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

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

Power Module Overview

Note: Power modules for Pattern can be installed on single-sided benches, dual-sided benches and café height benches. Only single-sided benches and single beam wood leg units are shown in this section, but installation is the same for dual-sided and café height benches.

Note: If the Connection Zone Benching being assembled requires a power module or grommet, reference the following sections below based on the power module your table requires: Reference page 16 for Dean In-Surface power modules, page 17 for Dean Undersurface power modules, page 18 for Snap-In RPT modules or reference "Ashley Duo Under Power Module - Assembly Instructions" (KI-AI-000026), for Ashley Duo Under power modules, then return back to page 20 in this instruction. If the tables being assembled require grommets, proceed to "Grommet Overview" instructions on page 19. If no power modules or grommets are required, proceed to "Electrical Overview" instructions on page 20.

Single-Sided Benching or Single Beam Wood Leg Units - Dean® In-Surface Power Module Installation

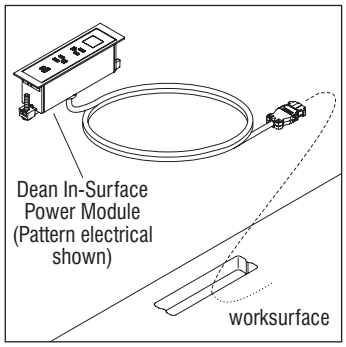
Note: The Dean In-Surface power module is available with 3-prong plug or Pattern electrical system. Although the figures on this page illustrate the installation of a Dean In-Surface power module for Pattern, the instructions apply to all Dean In-Surface power modules. Your configuration may vary.

Note (Power Modules for Pattern): The Pattern electrical system allows up to ten distribution blocks or 50' of jumpers from the infeed distribution block, whichever comes first, connected to one standard 15-amp power cord.

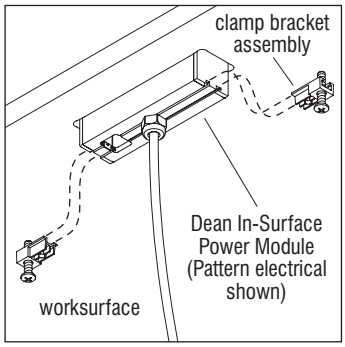
1. Orient the Dean In-Surface power module as shown and route the connector end (or plug end) down through the cutout in the worksurface. Press the module down firmly into the cutout (Figure 1 & Detail A).
2. At the underside of the Dean In-Surface power module are two horizontal channels which are used to secure the clamp bracket assembly onto each end of the module. Rotate each clamp bracket so the screws are facing away from the power module as illustrated in Detail B. Insert the top clamp bracket into the two openings on each end of the power module, then slide until the top bracket is completely engaged with the channel (Detail B).
3. Using the screws on the clamp bracket assembly, tighten to secure the Dean-In-Surface power module to the tabletop (Detail C).
4. Select the appropriate data plate adapter for the phone/data jack to be used and carefully remove from injection molded tree (Detail D).

   Note: Jacks are sold by separate companies and are not supplied with the module.
5. Wire the jack appropriately to the data plate and snap the data plate assembly into the module grommet opening as shown (Detail E).

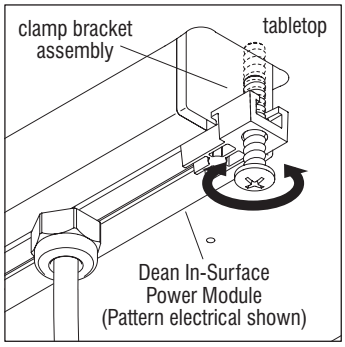
   Note: Depending on style of data jack used, it may be necessary to route the phone/data cord through the module grommet opening and data plate to install. Each installation may vary.
6. Proceed to "Electrical Overview" instructions on page 20.



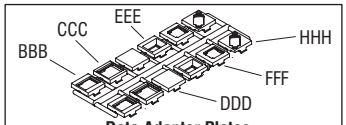
Detail A



Detail B - (underside shown)



Detail C - (underside view)



Data Adapter Plates

BBB	L-Com Keystone Modular, NETCONNECT and 110 Connect Series Modular Jack, Siemon ZMAX Style, Allen Tel Versa Tap Series, Leviton Quick Port Series, Belden REVConnect, HDMI Adapter Cable.
CCC	Hubbell Nextspeed Keystone Series, ADC Truenet Series
DDD	Blank (no coupler/jack)
EEE	Ortronics Tracjack Series
FFF	Panduit Mini-Com Series
HHH	Video Monitor Jack/DB-15

Detail D

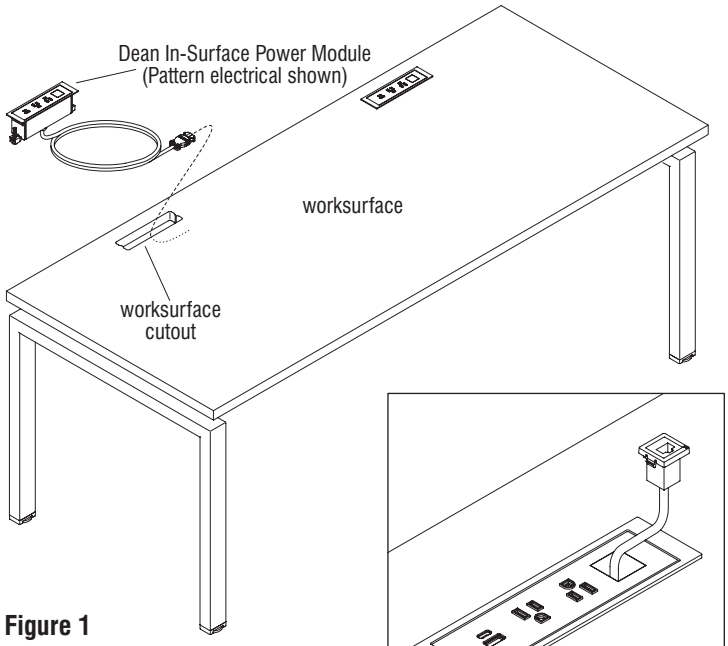
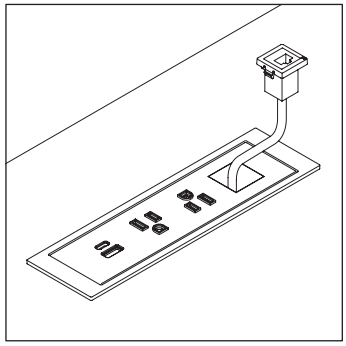


Figure 1



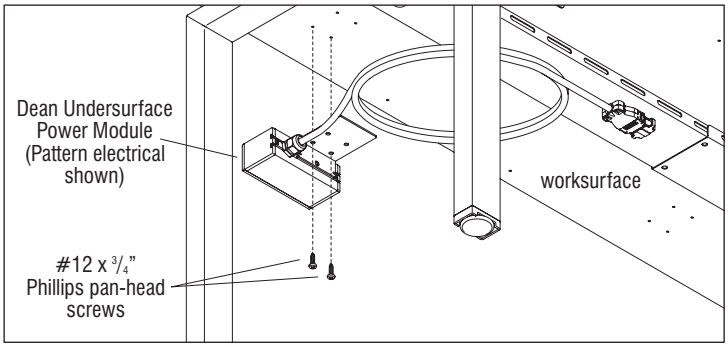
Detail E

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

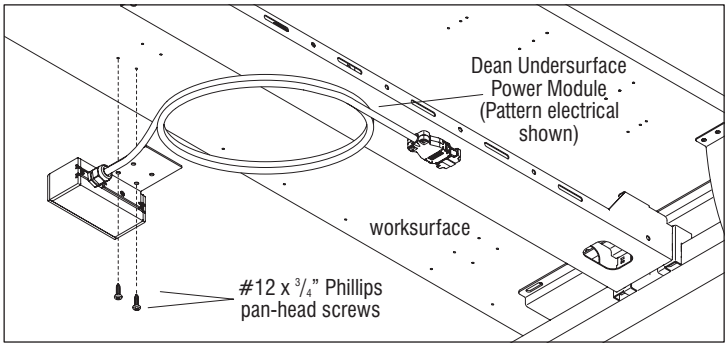
CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

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 F - Left or Right Aligned Dean Undersurface Mounting Holes - (underside view)



Detail G - Center Dean Undersurface Mounting Holes - (underside view)

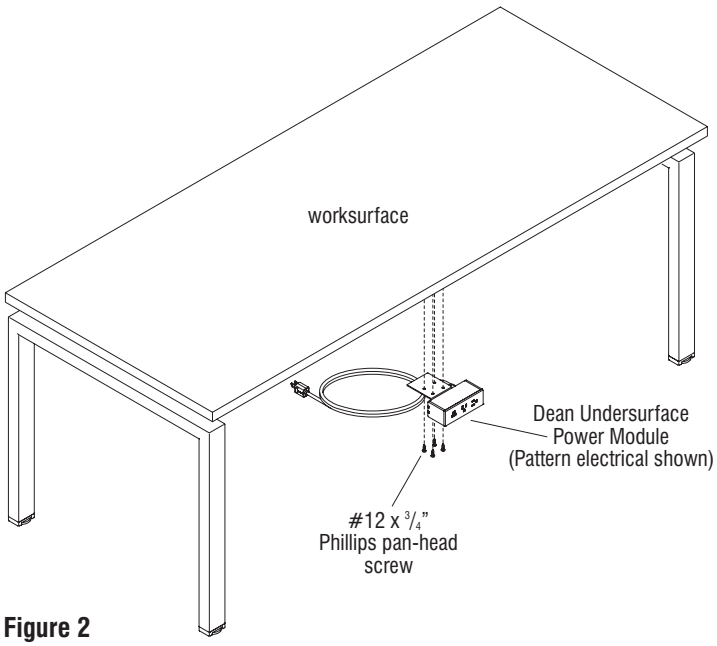
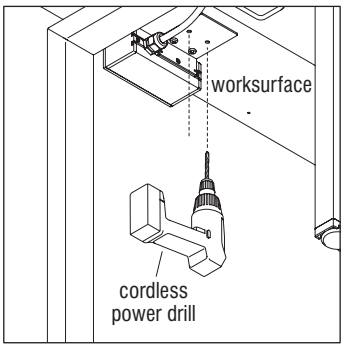


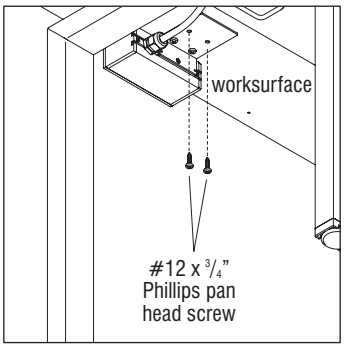
Figure 2

Single-Sided Benching or Single Beam Wood Leg Units - Dean® Undersurface Power Module Installation

Note: The Dean Undersurface power module is available with 3-prong plug or Pattern electrical system. Although the figures on this page illustrate the installation of a Dean Undersurface power module for Pattern, the instructions apply to all Dean Undersurface power modules. Your configuration may vary.



Detail H - (underside shown)



Detail I - (underside shown)

Note (Power Modules for Pattern): The Pattern electrical system allows up to ten distribution blocks or 50' of jumpers from the infeed distribution block, whichever comes first, connected to one standard 15-amp power cord.

Note: The underside of the worksurface contains four pre-drilled holes at each power module mounting location. However, only the two holes which position the power module face flush to the bottom edge of the worksurface will be used. Worksurfaces with different edge styles will utilize different holes to position the power module face flush to the bottom edge of the worksurface. The remaining two mounting holes on the power module mounting bracket will need to be pre-drilled.

1. Position the front of the Dean Undersurface power module to be flush with the bottom edge of the worksurface. Align the two front mounting holes of the power module with one of the three sets of pre-drilled mounting hole locations underneath the front, user side of the worksurface as illustrated (Figure 2, Details F & G). Secure the power module to the worksurface using two #12 x 3/4" Phillips pan-head screws (Figure 2 & Details F & G).

2. Using the Dean Undersurface power module mounting bracket as a template, carefully bore a 3/32" diameter pilot hole at the center of the remaining two mounting hole locations using a cordless power drill. Take care to not drill too deep, piercing the worksurface (Detail H).

3. Secure the rear of the mounting bracket to the worksurface using the remaining two #12 x 3/4" Phillips pan-head screws. Take care to not over tighten (Detail I).

4. Proceed to "Electrical Overview" instructions on page 20.

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.

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

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

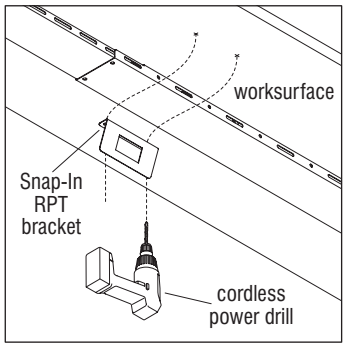
Single-Sided Benching or Single Beam Wood Leg Units - Snap-In RPT Modules for Pattern Installation

1. Choose an appropriate installation location for the Snap-In RPT bracket (Detail M), at the rear of the table, near the low side of the beam and positioned straight as illustrated (Figure 4). Using the two mounting holes of the bracket as a template, mark drilling locations to the underside of the table and drill a $^{3}/_{32}$" diameter hole to no more than $^{3}/_{4}$" deep at each mounting location. Take care to not drill too deep as damage to the worksurface may occur (Figure 3 & Detail J).

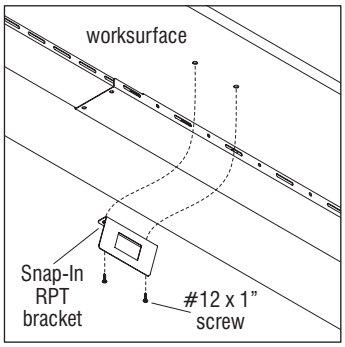
2. Position the Snap-In RPT bracket over the pre-drilled holes and secure using two #12 x 1" screws (Detail K).

3. Route the connector end of the Snap-In RPT module in through the rectangular-shaped module mounting hole on the Snap-In RPT bracket as illustrated, then snap the module receptacles into the bracket (Figure 3 & Detail L).

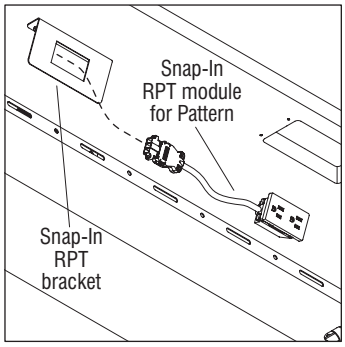
4. Proceed to "Electrical Overview" instructions on page 20.



Detail J - (underside view)



Detail K - (underside view)



Detail L - (underside view)

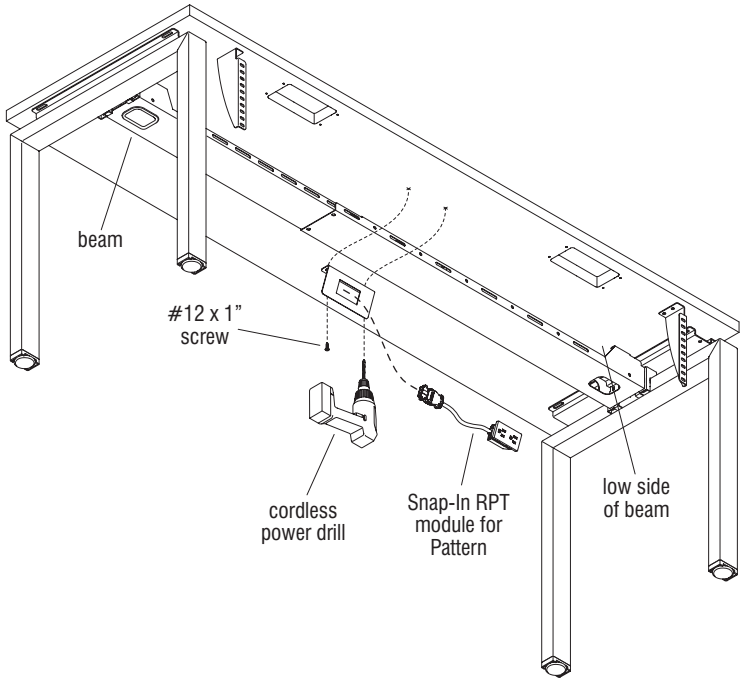
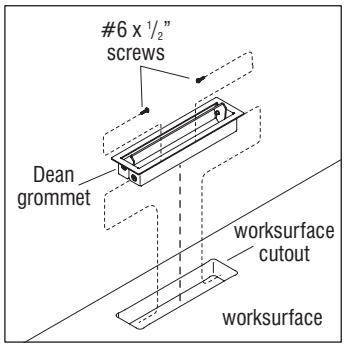


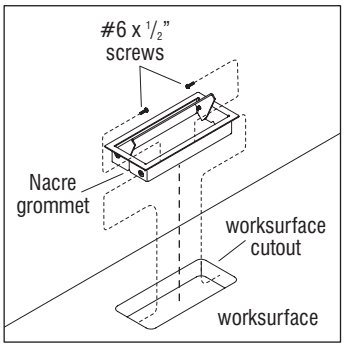
Figure 3 - Single-Sided Benching - (underside view)

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 - Dean Grommet



Detail B - Nacre Grommet

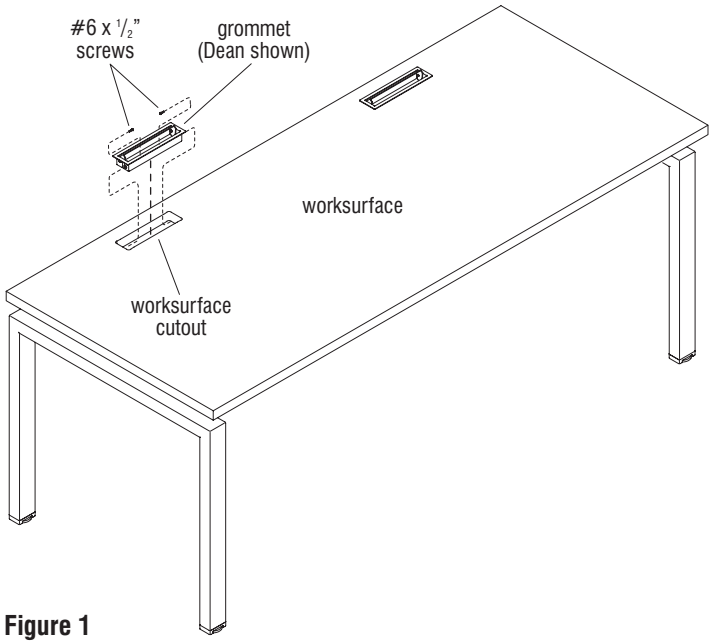


Figure 1

Grommet Overview

Note: If the Connection Zone benching units being assembled require a Dean® or Nacre® grommet installed into any tabletop cutouts, proceed to "Dean & Nacre Grommet Installation" instructions below.

Dean & Nacre Grommet Installation

1. Position the Dean or Nacre grommets above the tabletop cutouts with the lid opening towards the user side (Figure 1 & Details A or B).

2. Push the grommets into each cutout, tapping lightly with a rubber mallet if required. Use caution to avoid scratching the grommet (Figure 1 & Details A or B).

3. Secure the grommet to the tabletop by inserting two #6 x 1/2" screws through the holes on the inside of the module into the cut edge of the top (Details A or B).

4. Make sure the cover is closed on the grommet, then carefully rotate the tables to be upside down on a soft, protective surface.

5. Proceed to "Electrical Overview" instructions on page 20.

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.

Electrical Overview

Note: If the Connection Zone benching units being assembled will contain an electrical system, reference the following sections below based on the electrical system your units require: Reference page 20 for 10-Wire electrical system, page 23 for Pattern electrical system or page 28 for Hardwired electrical system. If an electrical system is not required, proceed to "Privacy & Divider Screen Overview" instructions on page 34.

Single-Sided Fixed Benching with 10-Wire Electrical - Power Access Door Installation

Note: As described in step 5, page 12, the modesty panel brackets must be rotated and installed using only the rear-most screw, to make room for installation of the power access door. The same also is true for lock brackets step 4, page 11.

1. Position the power access door as illustrated with the “key-hole slots” facing toward the “power door tabs” of the installed 10-wire rigid wireway. With the modesty panel brackets rotated to make room, push the power access door back toward the brackets, then up allowing the “power door tabs” to move down through the larger opening of the “key-hole slots”. Once both sets of tabs have moved through the slot and engaged the door so it can not fall, pull the power access door toward the user-side with the tabs holding the door in position (Figure 1).

2. Rotate the right- and left-hand modesty panel brackets (or lock brackets if no modesty panels are specified) straight, aligning the remaining bracket mounting holes with the pre-drilled holes in the underside of the worksurface. Secure each bracket with remaining #12 x 1” Phillips pan head screws. Take care to make sure all screws are secure (Figure 1).

Note: Rotating and securing the modesty panel or lock panel brackets straight prevents the power access door from sliding off of the power door tabs. The door will swing down when required, but it can not fall off.

3. The user-side of the power access door has a support flange which hooks onto the top of the short-wall side of the beam assembly to hold the door in the closed position (Figure 2).

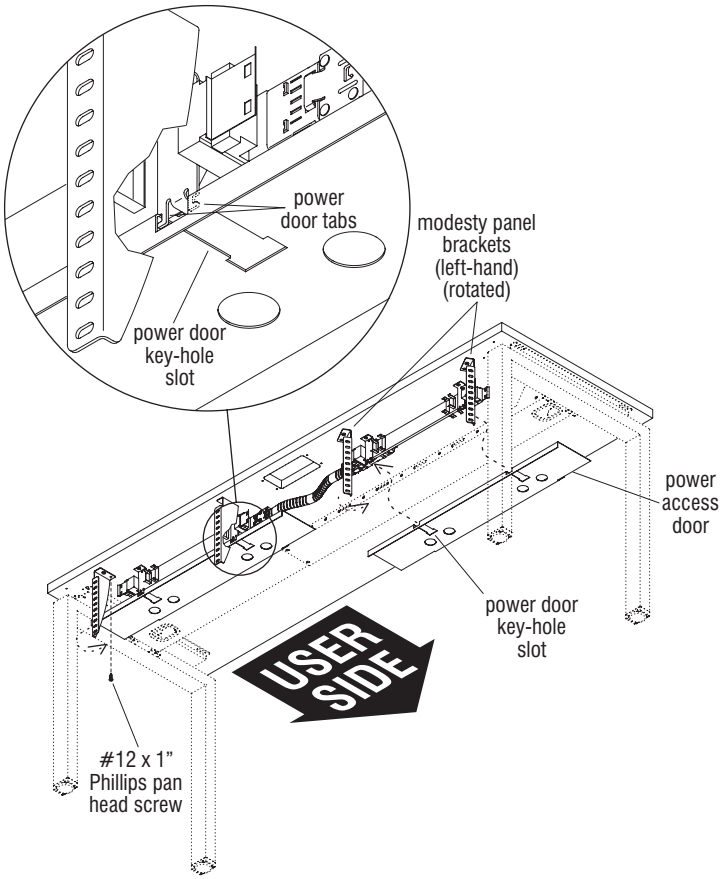


Figure 1 - Single-Sided Fixed Benching Power Access Door Installation

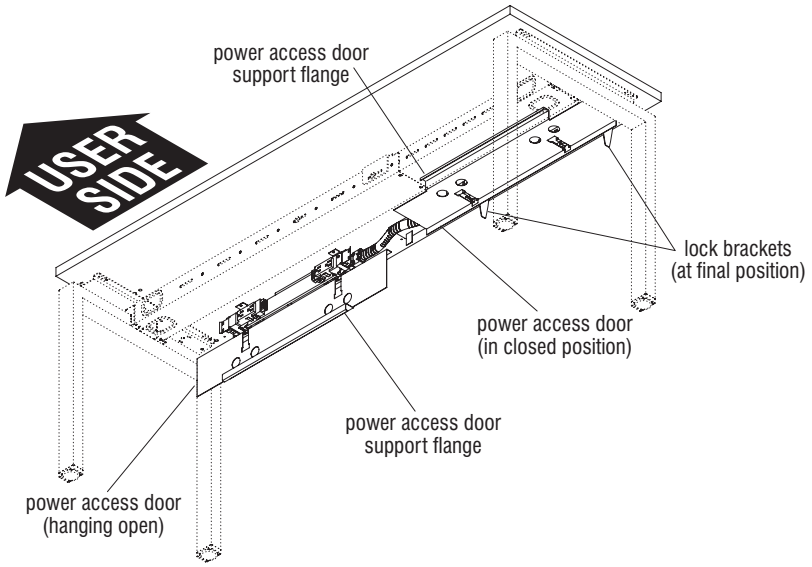


Figure 2 - Single-Sided Fixed Benching Power Access Door Installation

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

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-Sided Fixed Benching with 10-Wire Electrical - 10-Wire Top Power Infeed Installation

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All local codes at the job site must be followed.

1. Per the space-planning layout, determine the location for 10-wire top power infeed to the benching system. Lock brackets or modesty panel brackets must have the user-side screw removed and the brackets rotated so the power access door can be hung open to gain access to the power infeed location on the 10-wire rigid wireway.

2. Route the 10-wire power infeed connector under the horizontal of the end leg and plug it into the 10-wire rigid wireway (Detail A).

3. Position the power pole support bracket (single-sided, LH shown) as illustrated, then move it up into position so the cut-out in the bracket nests around the horizontal of the leg. Align the mounting holes of the bracket to the two pre-drilled mounting holes in the underside of the worksurface and secure bracket using two #10 x $^5/_8$" screws (Figure 3 & Detail A).

4. Make sure the worksurface is in its desired location and is level, and that the source power is overhead. Cut a $2^3/_4$" x $1^5/_8$" hole in the ceiling tile directly above, plumb to the power pole mounting location on the power pole support bracket.

5. Measure from the ledge of the power pole support bracket, up to the ceiling at the cut-out. Cut the top of the power pole off 3" longer than the distance from the ledge to the ceiling.

6. Orient the power pole as illustrated, so the mounting flange of the power pole is down for future attachment (step 10) and run the power infeed flexible conduit into and out the top end of the smaller opening in the power pole (Detail B).

7. Slide the top trim plate onto the top end of the power pole with the finish side facing down (Detail B).

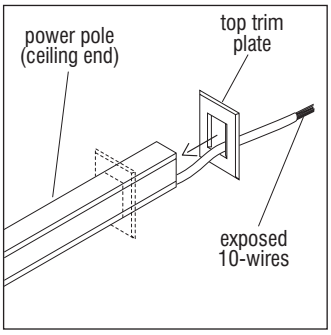
8. Make connections of the flexible conduit (exposed 10-wires) to the power source through the hole in the ceiling.

   Note: If data/communication cables are to be run through the power pole, do so at this time.

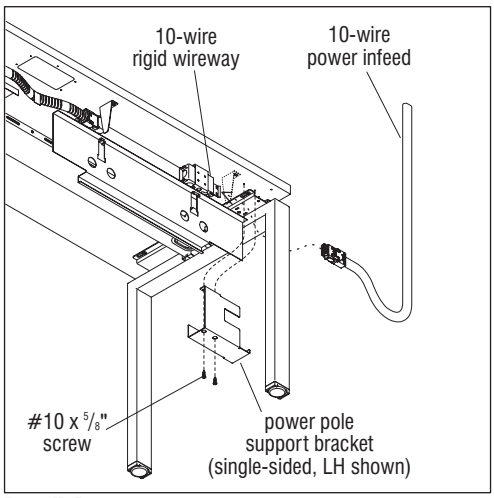
9. Run data cables out of the hole cut in the ceiling tile and down through the larger opening in the power pole. Route the cables through the power pole support bracket, as was done with the power infeed (Figure 3). Data cables will be managed later by the power access door when it is closed.

   Note: A power-pole to support-bracket mounting screw is fastened into the mounting flange of the power pole and should be removed at this time.

10. Rotate the power pole vertical such that the mounting flange faces outward (Figure 3). Carefully push the top end of the pole up into the hole in the ceiling and set the bottom of the pole down onto the ledge of the power pole support bracket. Use the #8 x $^3/_8$" screw from the power pole and insert it through the mounting hole of the support bracket and tighten it into the power pole at the mounting flange (Figure 3).



Detail B



Detail A

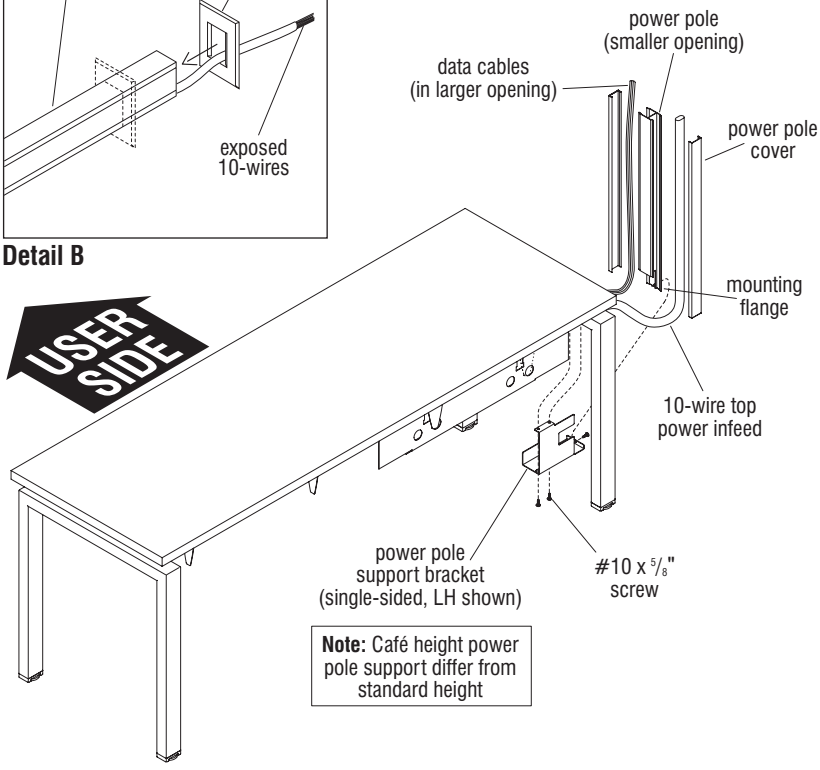


Figure 3 - Single-Sided Fixed Benching, 10-Wire Top Power Infeed Installation

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-Sided Fixed Benching with 10-Wire Electrical - 10-Wire Base Power Infeed Installation

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All local codes at the job site must be followed. Base power infeed can be installed on the single-sided benches, dual-sided benches and café height benches. Only the single-sided bench is shown in this procedure, but installation is the same for dual-sided and café height benches.

1. Per the space-planning layout, determine the location for base power infeed to the benching system. The power access door must be hung open to gain access to the power infeed location at the end of the 10-wire rigid wireway (Figure 4).

2. Plug the power infeed connector into the 10-wire rigid wireway (Figure 4).

   Note: A base wire enclosure unit or two conduit straps are required to secure the power infeed flexible conduit to the leg on single-sided benches. Three straps are used for dual-sided and café height benches. If conduit straps are to be used proceed to step 3. If 10-wire will feed through a base wire enclosure, reference page 32 for "Base Wire Enclosure Installation."

3. Route the flexible conduit along the leg and mark the pilot holes where the straps will be installed. It may help to position the clamps over the flexible conduit on the leg to assist in marking the pilot holes (Figure 4).

4. Position the flexible conduit out of the way. Use a hammer and punch to mark the location, then drill pilot holes, using a #4 drill bit in the leg at each conduit strap mounting location (Figure 4).

5. Position the straps over the flexible conduit and secure to the leg using #14 x 3/4" self-drilling screws. Be careful to not over tighten (Figure 4).

6. Route the rest of the flexible conduit to make connections (exposed 10-wires) to the power source.

   Note: Data cables can be installed through a power pole from the top of the table or from the bottom through a data beam. Proceed to page 21 for top data infeed through the power pole.

7. If privacy screen brackets have been installed from page 12, Figure 7, or divider screens are required, proceed to "Privacy & Divider Screen Overview" instructions on page 34. If no privacy screens and/or divider screens are required, and if modesty panels are to be installed at this time, go now to modesty panel section beginning on page 39. If a perpendicular support frame is required, go now to page 42 to start support frame installation.

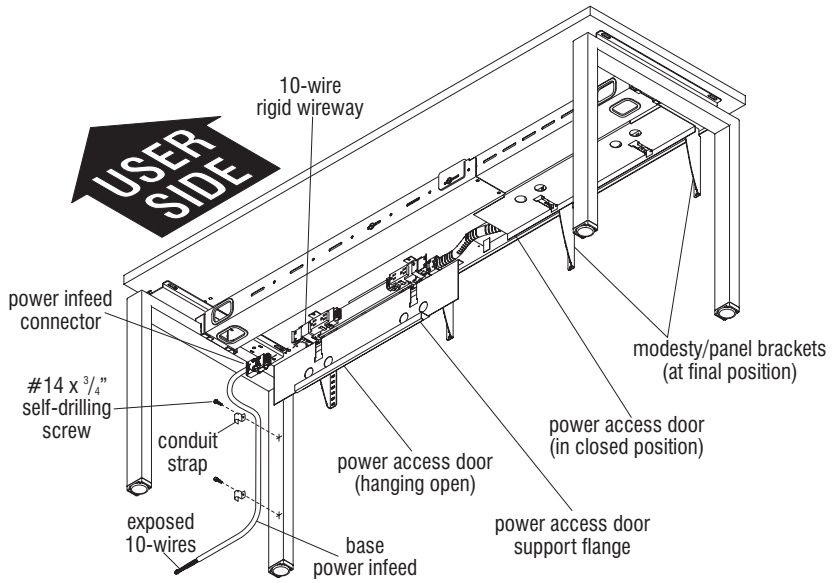
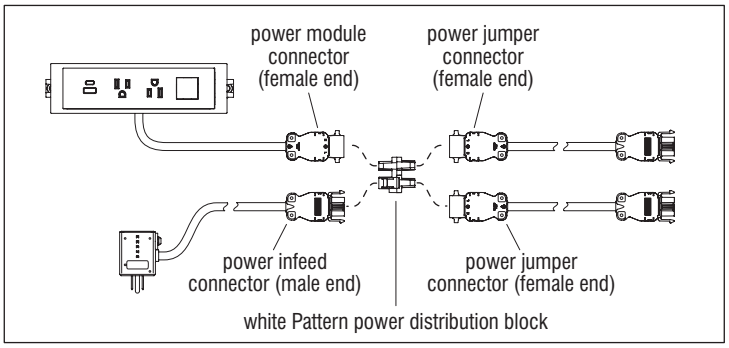


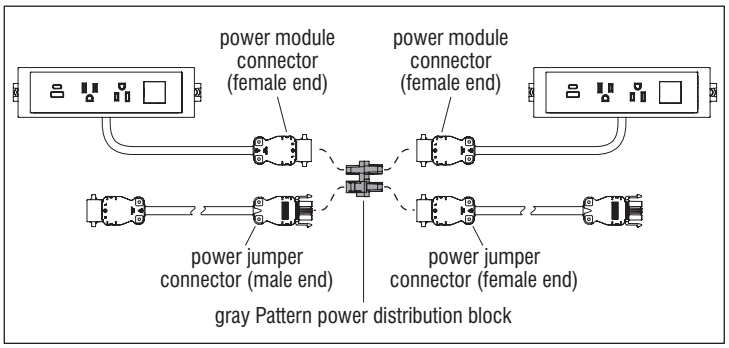
Figure 4 - Base Power Infeed

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 - Connection Locations with White Power Distribution Block



Detail B - Connection Locations with Grey Power Distribution Block

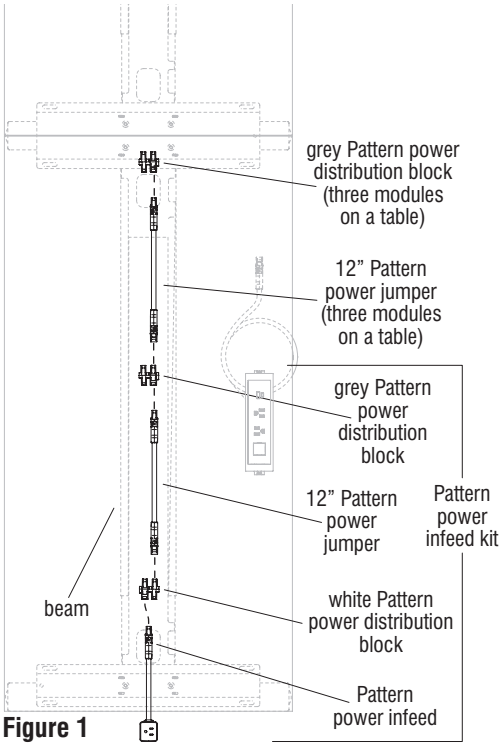


Figure 1

Pattern Electrical System Installation

Note: The Pattern electrical system is ETL Listed, evaluated to safety standard UL 962A (USA) and CAN/CSA-C22.2 No. 308 (Canada). It allows up to ten power distribution blocks and up to 50' of power jumpers (in either direction of the power infeed), whichever comes first, can allow up to eighteen power modules depending on table width, and connects to one 15-amp power supply cord (power infeed). The power supply cord does not count toward the maximum 50' of power jumpers.

Note: The Pattern quick-release tool is a simple tool designed to help remove the power connector ends from the Pattern power distribution blocks. If reconfiguration of the Pattern electrical system is required, reference "Pattern Quick-Release Tool" instructions on page 93.

Pattern Power Infeed Kit Assembly

Important: Details A & B are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

Note: Pattern does not provide straps to secure cord to frame legs. The Pattern power infeed can hang freely or be housed in the optional base wire enclosure. See page 32 for "Base Wire Enclosure Installation".

1. For a run of tables, start Pattern electrical system assembly with the table that will contain the Pattern power infeed. Place the Pattern power infeed into the beam, routing the connector end toward the middle of the beam (Figure 1).

2. Locate one white and one grey Pattern power distribution block. Plug the power infeed's male connector end into the white power distribution block first, as illustrated (Figure 1 & Detail A).

3. Next locate a 12" Pattern power jumper and plug the female connector end into the white power distribution block also. As illustrated in Detail A, either port opposite the power supply cord is fine (Figure 1 & Detail A).

4. Take a grey power Pattern distribution block in hand. Plug the previously installed (step 3) 12" Pattern power jumper's male end into the grey power distribution block as illustrated (Figure 1 & Detail B).

5. Steps 1 through 4 assemble a standard Pattern power infeed kit (Figure 1). If the table being assembled has the power infeed installed and it will receive three power modules, an additional 12" Pattern power jumper and grey Pattern power distribution block on the end will be required after the first grey distribution block (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.

Pattern Table-to-Table Power Jumper Kit Assembly

Important: Details A & B, on the previous page, are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

Note: The Pattern table-to-table power jumper kit is used to extend power to any additional table beyond the table with the Pattern power infeed kit.

1. Take a Pattern table-to-table power jumper in hand and plug the jumper's male connector end into a grey Pattern power distribution block as shown in Detail B on page 23 and Figure 2 this page. Orient the table-to-table power jumper's female connector end out of the side cutout on the beam and toward the previous table's side cutout on the beam, in the direction of the table with the Pattern table-to-table power jumper kit (Figure 2 & page 23, Detail B).

2. Step 1 above assembles the Pattern table-to-table power jumper kit (Figure 2). If the table being assembled will have three power modules, an additional 12" power jumper and grey power distribution block must be added after the Pattern table-to-table kit (Figure 2 & page 23, Detail B).

3. Repeat steps 1 & 2 to assemble table-to-table kits in the remaining beams.

4. If the Pattern power infeed is located in-between two tables, connect the closest Pattern table-to-table power jumper, not connected to the run of tables, to the open available socket on the white Pattern power distribution block (Figure 2 & page 23, Detail A).

5. If the table being assembled contains Snap-In modules for Pattern, proceed to "Cable Routing Guidelines - Tables with Snap-In Modules for Pattern" instructions on page 25. If the table being assembled does not consist of Snap-In RPT modules but contains at least one power module, proceed to "Cable Routing Guidelines - Power Modules for Pattern" instructions on page 26.

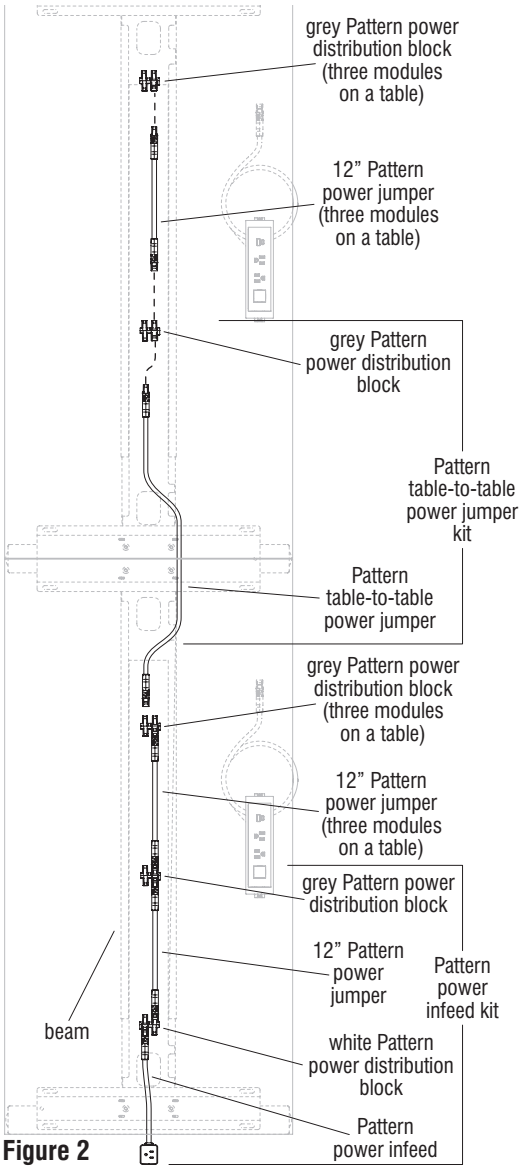


Figure 2

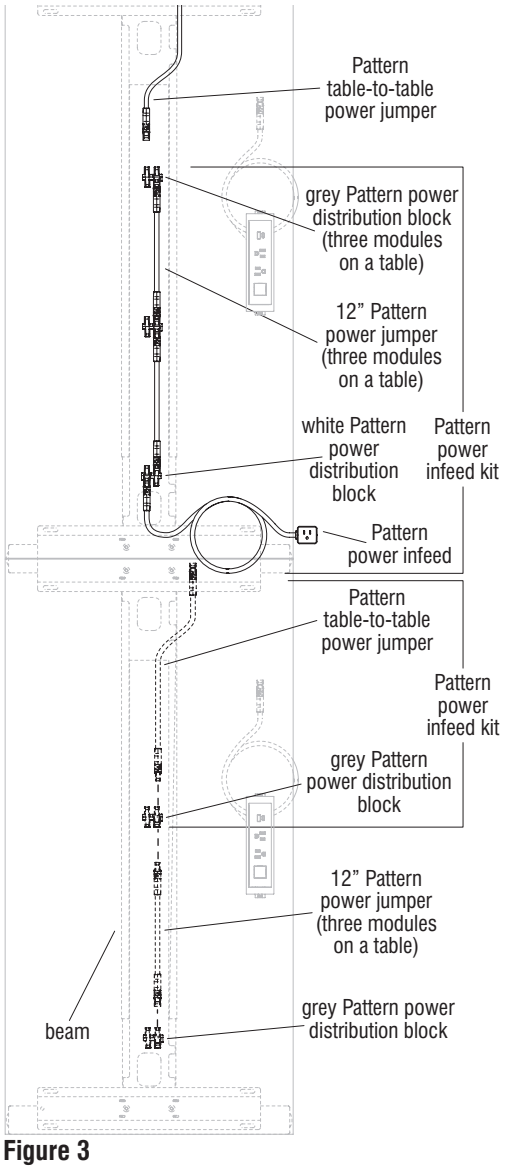
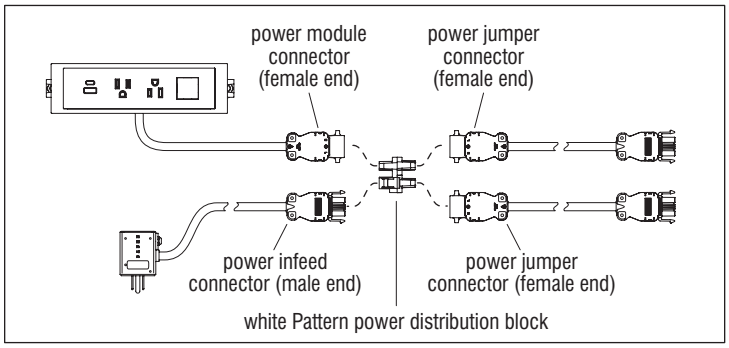


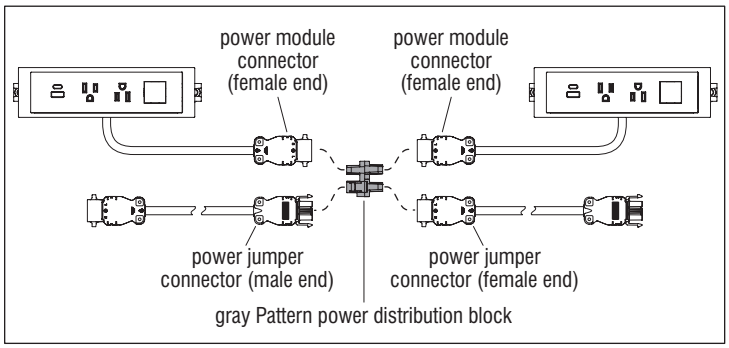
Figure 3

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.



Detail C - Connection Locations with White Power Distribution Block



Detail D - Connection Locations with Grey Power Distribution Block

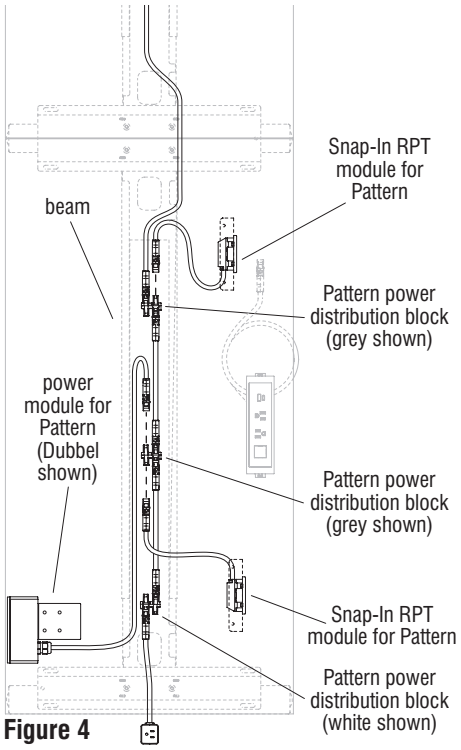


Figure 4

Cable Routing Guidelines - Tables with Snap-In RPT Modules for Pattern

Important: Details C & D are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

1. Route the connector ends of the Snap-In modules to an available power distribution block on the Pattern electrical system inside the beams (Figure 4 & Details C & D).

2. If the tables being assembled require a power module in addition to the previously installed Snap-In RPT module, proceed to "Cable Routing Guidelines - Power Modules for Pattern" instructions on page 26. If the table being assembled does not require any additional power modules, proceed to "Connections to Power Source - Pattern Electrical System" instructions on page 27.

CAUTION

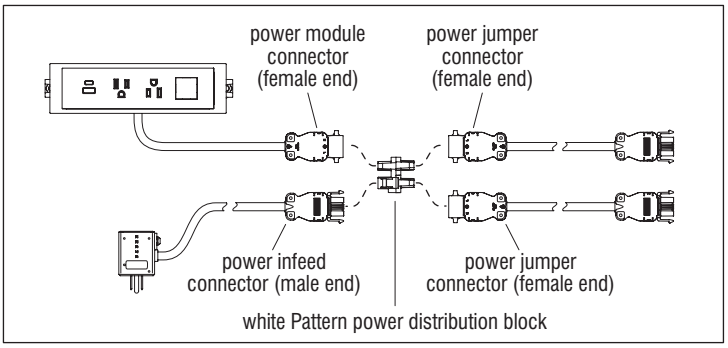
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Cable Routing Guidelines - Power Modules for Pattern

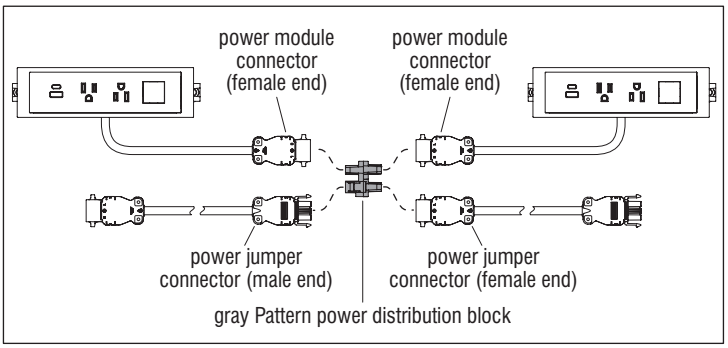
Important: Details E & F are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

1. If the table being assembled contains at least one power module for Pattern, route the connector end of each module toward an available power distribution block on the Pattern electrical system inside the wire trough. Repeat step 1 to route the remaining power modules from the other tables to an available power distribution block (Figure 5 & Details E & F).

2. Proceed to "Connections to Power Source - Pattern Electrical System" instructions on page 27.



Detail E - Connection Locations with White Power Distribution Block



Detail F - Connection Locations with Grey Power Distribution Block

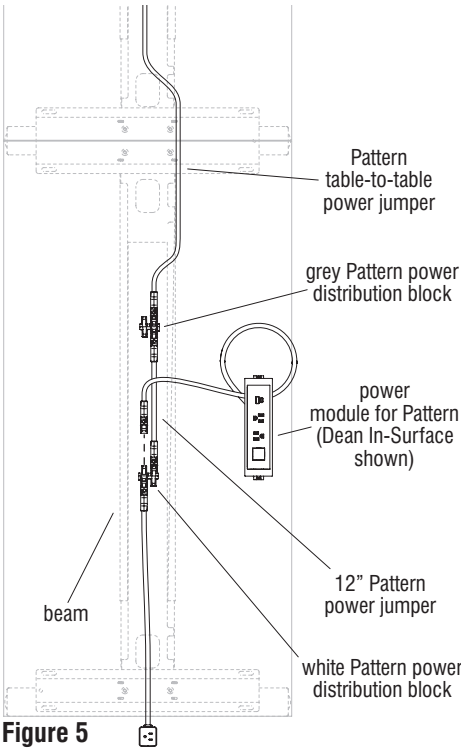


Figure 5

GROUNDING INSTRUCTIONS

This product is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug illustrated in Detail G. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product.

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.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical furnishing, basic precautions should always be followed, including the following:

Read all instructions before using (this furnishing).

DANGER: To reduce the risk of electric shock:

1. Always unplug this furnishing from the outlet before cleaning.

WARNING: To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Unplug from outlet before putting on or taking parts off parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Do not use outdoors.
5. **WARNING:** Risk of Electric Shock-Connect this furnishing to a properly grounded outlet only. See Grounding Instructions.

Electrical Rating: 120V 12 A

WARNING: Risk of Injury - Maximum Load 4.7 lbs. per inch width.

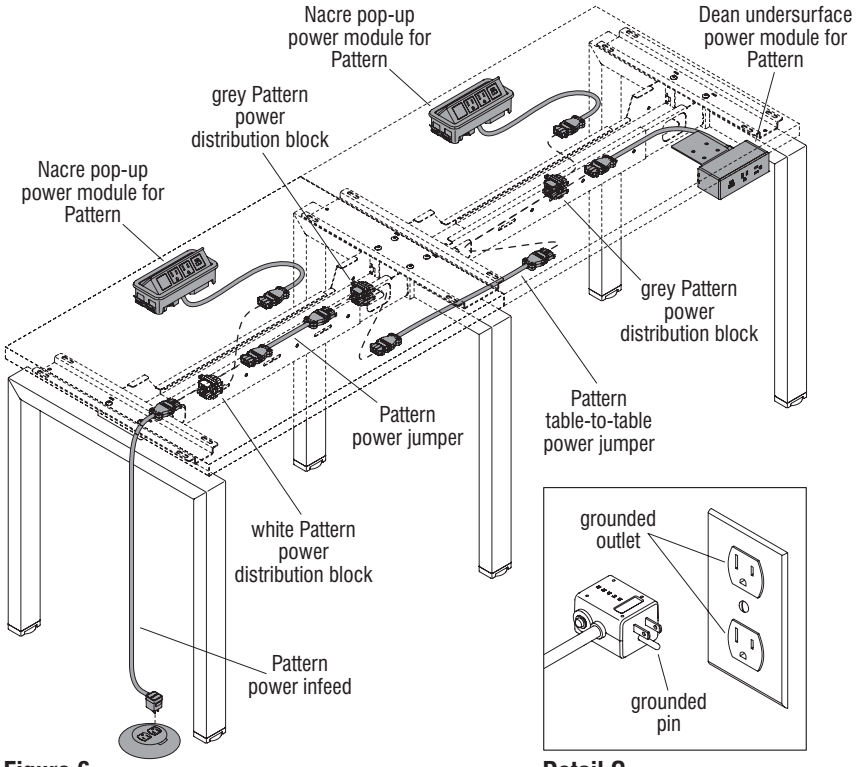


Figure 6

Detail G

Connections to Power Source - Pattern Electrical System

Warning: Never attach more than one power infeed to a chain of devices. Always check to be certain that the system is not already powered from another source before attaching an infeed.

1. Snap the Pattern table-to-table jumper ends into each table's Pattern distribution block (Figure 6).
2. Plug the power infeed connector end into an appropriate location in the Pattern system only after all other components are installed. Plug into a source power outlet. Plug an electrical device into a power module on the Pattern electrical system to verify power. If there is no power, verify that there are no more than ten power distribution blocks used on the system, and that the total length of the system and all interconnecting cables (exclusive of the power infeed unit) does not exceed 50 feet, or 600 inches.
3. Once the connection with source power has been identified and corrected, press the reset button on the 3-prong plug end of the Pattern power infeed.
4. If privacy screen brackets have been installed from page 9, Figures 1, 2, & 3, or divider screens are required, proceed to "Privacy & Divider Screen Overview" instructions on page 34. If no privacy screens and/or divider screens are required, and if modesty panels are to be installed at this time, go now to modesty panel section beginning on page 39. If a perpendicular support frame is required, go now to page 42 to start support frame installation.

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-Sided Fixed Benching with Hardwired Electrical

Note: It is recommended to assemble hardwired electrical components into hardwire junction boxes while boxes are sitting on top of the actual worksurfaces which they will install under later. Take care to place a protective cover on the worksurfaces to protect the tops from damage.

1. Place hardwire junction boxes onto the worksurfaces and stage boxes in the order and location specified by the space-planning layout. Remove the junction box covers and set aside (Figure 1).

2. Follow all state and local codes at the job site and install wiring to hardwire junction boxes per the space-planning layout. The boxes will secure to the underside of the worksurface with a 17 3/4" space between them (step 4). When joining boxes with "pass-through conduit" where it will route over a support frame between two worksurfaces, be sure to add no less than 1" extra conduit length (to be 18 3/4+") between them. The extra 1+" is added to allow for the conduit to drape up and over the intermediate leg top when the boxes are installed to the brackets under the worksurfaces.

3. Different receptacles (customer supplied) will wire differently. Depending on the type of receptacle used, determine if the individual wires will attach to the receptacle before or after they are mounted to the specified locations in the hardwire boxes. To mount receptacles to the box, position receptacles inside the box with the receptacle face through the opening, then secure the box to the receptacle using two #10-32 x 1/2" screws (see inset detail, Figure 1).

4. Complete the wiring of receptacles, then secure the covers to the hardwire junction boxes using #10 x 3/8" screws at all required locations per box as illustrated (Figure 1).

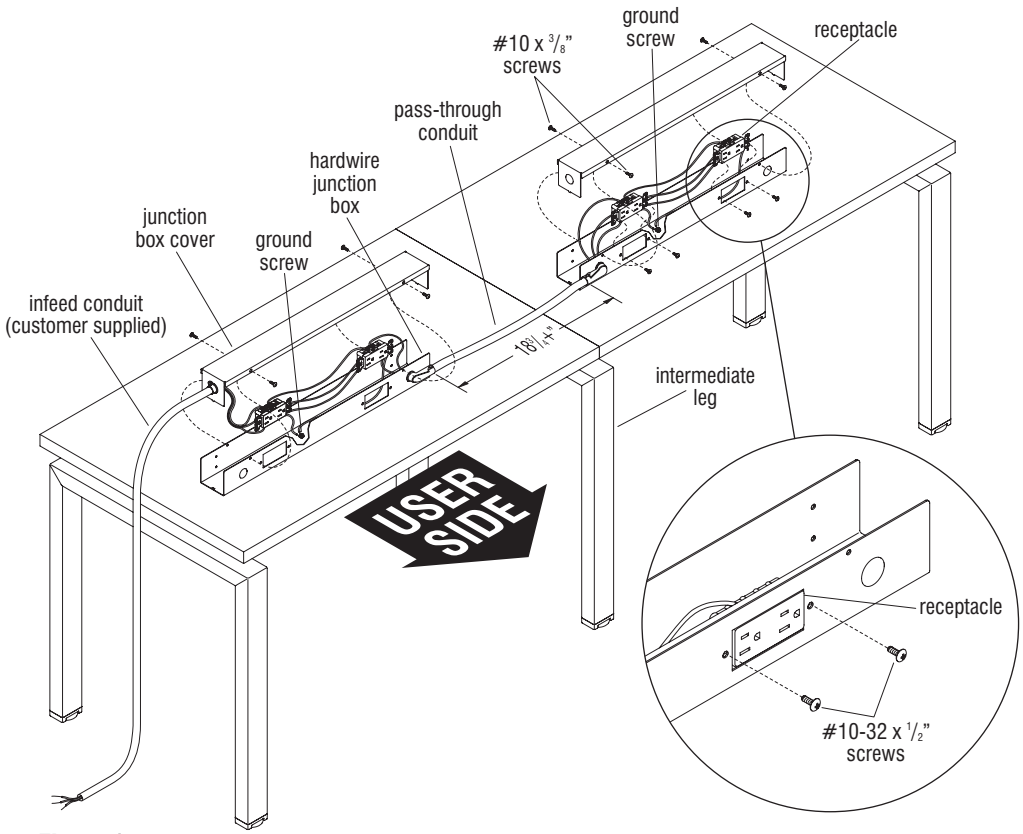


Figure 1

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.

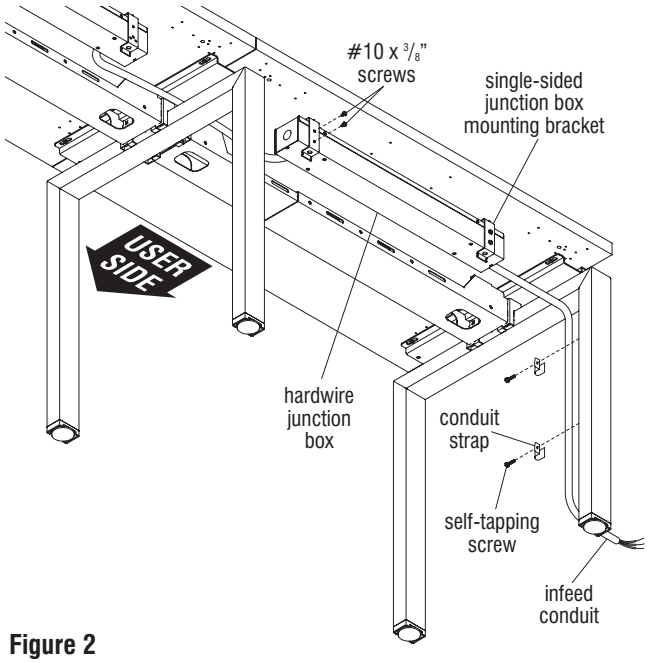


Figure 2

5. With the assistance of two or more people, move the hardwired electrical assembly rearward (opposite the user side), under the worksurfaces. Route the pass-through conduit over the shared leg tops and position the hardwire junction boxes up to the hardwire box mounting brackets. Finally, align the mounting holes of the hardwire boxes with the holes in the hardwire box mounting brackets and secure using two #10 x 3/8" screws per bracket (Figure 2).

   Note: A base wire enclosure unit or two conduit straps are recommended to secure the flexible conduit to the leg on single-sided benching. Three straps are recommended for dual-sided and café height benches. If conduit straps are to be used, proceed to step 6. If infeed conduit will feed through a base wire enclosure, reference page 32 for "Base Wire Enclosure Installation."

6. Route the flexible infeed conduit (customer supplied) along the leg and mark the pilot holes where the conduit straps (customer supplied) will be installed. It may help to position the straps over the flexible conduit on the leg to assist in marking the pilot holes (Figure 2).

7. Position the flexible conduit out of the way. Use a hammer and punch to mark the location, then drill pilot holes, using an appropriate size drill bit in the leg at each conduit strap mounting location (Figure 2).

8. Position the straps over the flexible conduit and secure to the leg using appropriate self-tapping screws (customer supplied). Be careful to not over tighten (Figure 2).

9. Go now to page 30 and follow all instructions (Figures 3) to install the “power access door(s)” to the “power door tabs” of the junction box mounting brackets, and properly complete the assembly of the modesty panel or lock brackets to the underside of the worksurface.

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-Sided Fixed Benching with Hardwired Electrical - Power Access Door Installation

Note: As described in step 1, page 14, the modesty panel brackets must be rotated and installed using only the rear-most screw, to make room for installation of the power access door. The same also is true for lock brackets step 1, page 13.

10. Position the power access door as illustrated with the "key-hole slots" facing toward the "power door tabs" of the installed hardwire junction box. With the modesty panel brackets rotated to make room, push the power access door back toward the brackets, then up allowing the "power door tabs" to move down through the larger opening of the "key-hole slots". Once both sets of tabs have moved through the slot and engaged the door so it can not fall, pull the power access door toward the user-side with the tabs holding the door in position (Figure 3).

11. Rotate the right- and left-hand modesty panel brackets (or lock brackets if no modesty panels are specified) straight, aligning the remaining bracket mounting holes with the pre-drilled holes in the underside of the worksurface. Secure each bracket with remaining #12 x 1" Phillips pan head screws. Take care to make sure all screws are secure (Figure 3).

Note: Rotating and securing the modesty panel or lock panel brackets straight prevents the power access door from sliding off of the power door tabs. The door will swing down when required, but it can not fall off.

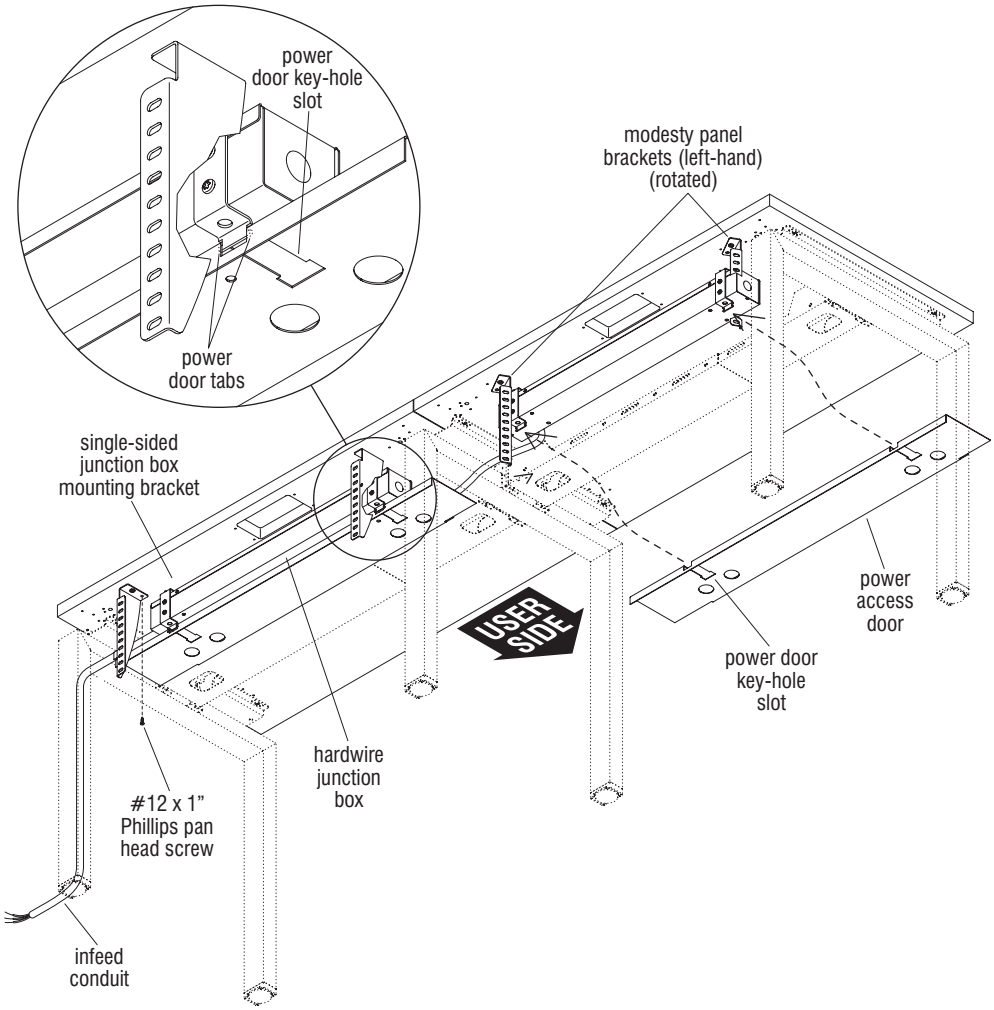


Figure 3 - Single-Sided Fixed Benching with Hardwired Electrical - Access Door Installation

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.

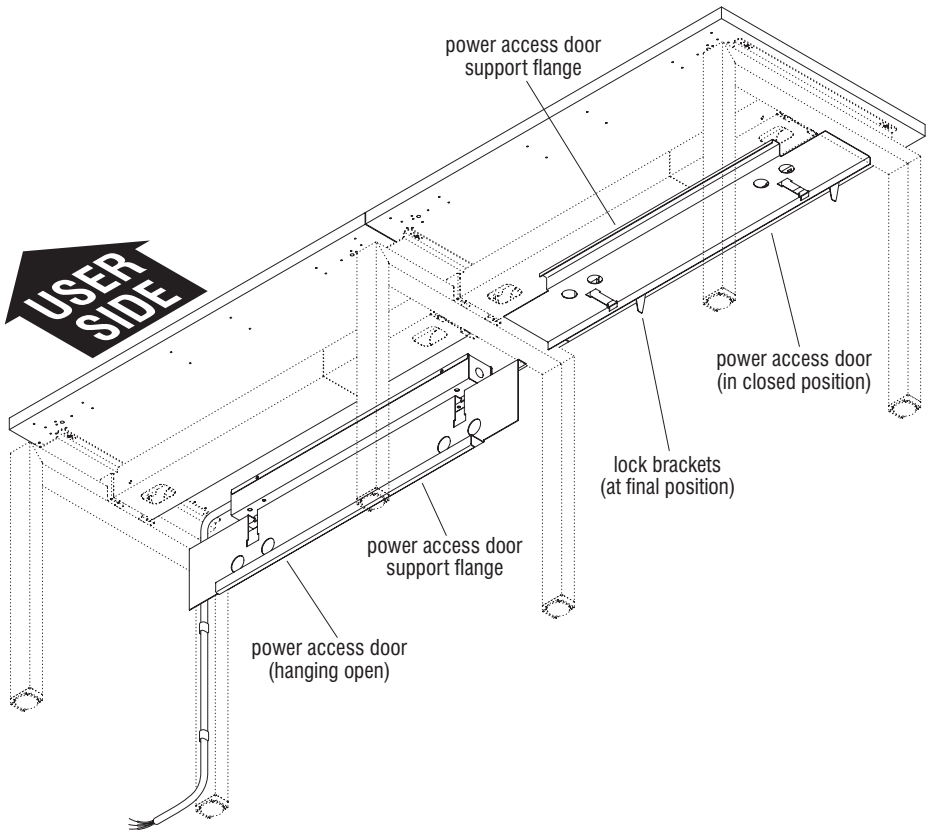


Figure 4 - Single-Sided Fixed Benching with Hardwired Electrical - Access Door Installation

Single-Sided Fixed Benching with Hardwired Electrical - Power Access Door Installation (cont.)

12. The user-side of the power access door has a support flange which hooks onto the top of the short-wall side of the beam assembly to hold the door in the closed position (Figure 4).

13. If privacy screen brackets have been installed from page 13, Figures 8 & 9, or divider screens are required, proceed to "Privacy & Divider Screen Overview" instructions on page 34. If no privacy screens and/or divider screens are required, and if modesty panels are to be installed at this time, go now to modesty panel section beginning on page 39. If a perpendicular support frame is required, go now to page 42 to start support frame installation.

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.

Base Wire Enclosure Installation

Note: The base wire enclosure may be used with various electrical configurations. The instructions to follow outline the assembly of the base wire enclosure using 10-wire electrical. Your configuration may vary.

Note: Base wire enclosure can be installed on single-sided benches, dual-sided benches and café height benches. Only single-sided benching is shown in this procedure, but installation is the same for dual-sided and café height benches.

1. Determine which leg the base power infeed will run along into the benching system. If power access door is installed, it must be hung open to gain access to the 10-wire rigid wireway, power infeed location. If a power infeed connector end is already installed to the 10-wire rigid wireway, it is advised to disconnect it and set it aside to make pre-drilling procedure easier.

   Note: The upper and inner tabs on the base wire enclosure (horizontal) are used to field locate, mark and pre-drill the wire enclosure mounting holes to the leg.

2. To pre-drill inner tab mounting holes, first place the base wire enclosure (horizontal) up tight in position under the leg as illustrated, with the upper tabs of the enclosure facing up at the inside of the leg under the table. Locate an inner tab in each U-shaped hole on the base wire enclosure then mark the center of each mounting tab location and move the unit away (Detail A).

3. Use a #4 or $^{7}/_{32}$" drill bit in a drill driver to carefully bore a hole at the center of each inner tab location into the underside of the leg. Take care to not drill through the other side of the leg (Detail B).

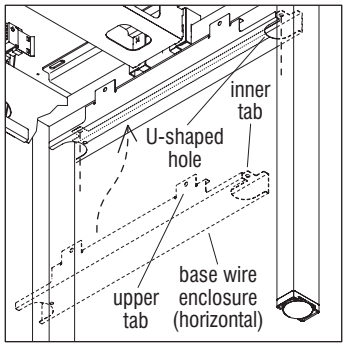
4. If installing the base wire enclosure (horizontal) to house a 10-wire power infeed, plug the connector end into the 10-wire rigid wireway. Bend and route the 10-wire power infeed (or other type of infeed) to fit close to the vertical member of the leg. Place the power infeed into the U-shaped opening at the appropriate end of the wire enclosure (horizontal) to be installed. Position the wire enclosure between the leg uprights and move it up into position, adjusting as needed, keeping the power infeed inside the U-shaped opening, while moving the unit up to align the wire enclosure mounting holes in the inner tabs with the pre-drilled holes in the leg. Secure the enclosure to the leg underside using one #10-24 x $^{1}/_{4}$" screw per tab. Take care to not over tighten (Figure 1).

5. Hold the base wire enclosure (horizontal) tight under the leg. Using the mounting tabs as a template, use a #4 or $^{7}/_{32}$" drill bit in a drill driver, to carefully bore a hole at the center of each upper tab location. Secure the enclosure to the leg using a #10-24 x $^{1}/_{4}$" screw in each upper tab (Figure 1).

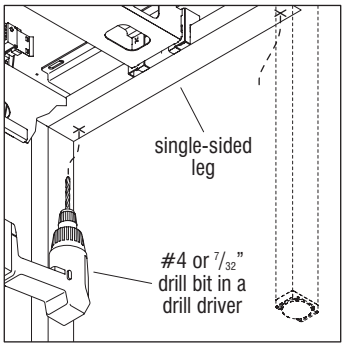
   Note: The holes inside the base wire enclosure (vertical) are used to field locate, mark and pre-drill the wire enclosure mounting holes to the leg.

6. To pre-drill mounting holes for the base wire enclosure (vertical), first place the cover straight against the vertical leg member, and up tight under the U-shaped opening as illustrated with power routing into the wire enclosure. Mark through the wire enclosure mounting holes inside the channel, and onto the inside of the leg then set the wire cover aside. Use a #4 or $^{7}/_{32}$" drill bit in a drill driver to carefully bore two holes at the center of the marked locations. Take care to not drill through the other side of the leg (Figure 2).

7. Position the base wire enclosure (vertical) back up against the leg, aligning the mounting holes of the enclosure with the pre-drilled mounting holes in the leg. Make sure the wire enclosure is straight and secure the enclosure to the inside of the leg using two #10-24 x $^{1}/_{4}$" screws. Take care to not over tighten (Figure 2).



Detail A



Detail B

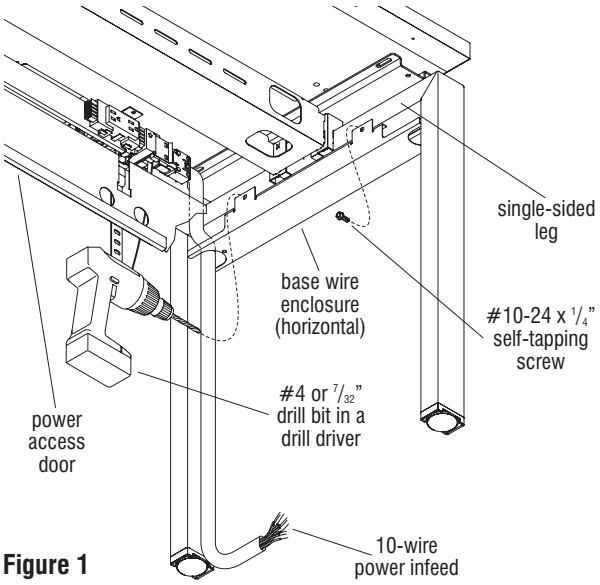


Figure 1

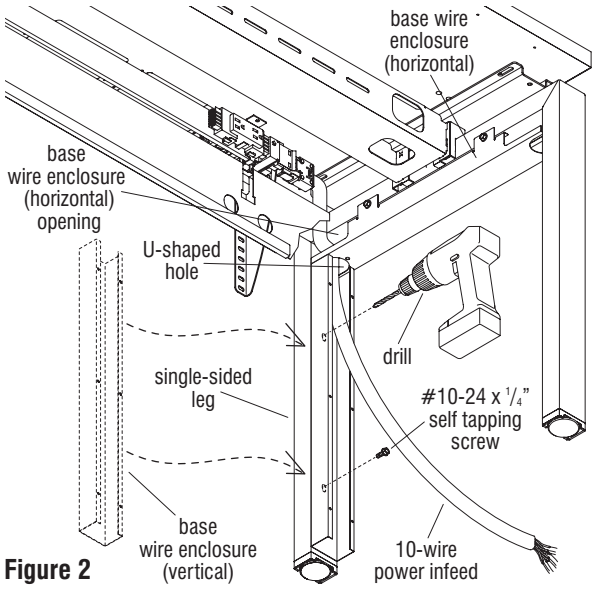


Figure 2

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.

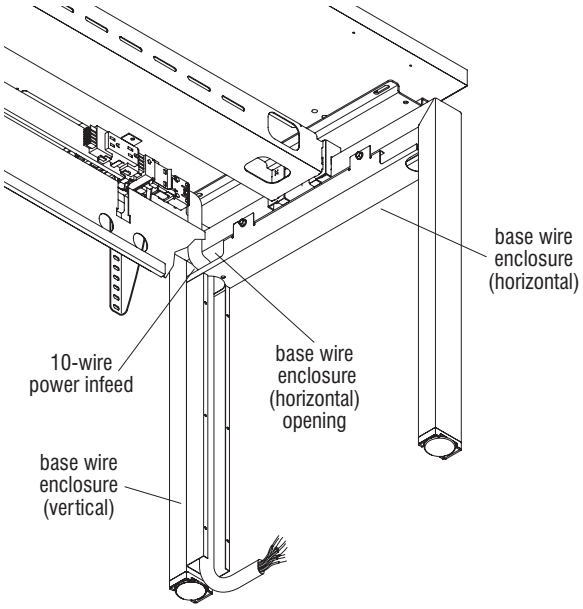


Figure 3

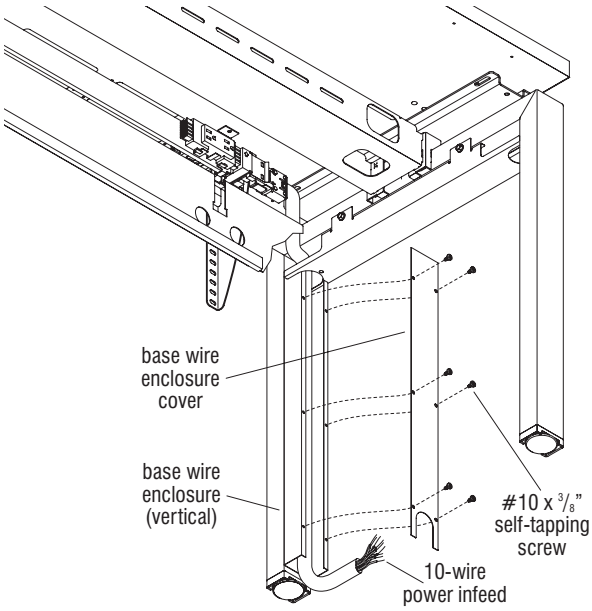


Figure 4

8. If utilizing a power infeed option other than 10-wire electrical, and if it is not in position at this time, do so now by first routing power infeed down through the U-shaped opening of the base wire enclosure (horizontal) and into the base wire enclosure (vertical). Pull infeed through the covers, exiting at floor level (Figure 3).

9. After power infeed, or any desired wires have been run through the base wire enclosure to the floor, position the cover of the base wire enclosure (vertical) with the U-shaped opening down as illustrated. Mate the cover to the wire enclosure, aligning the mounting holes of both. Using six #10 x 3/8" self tapping screws, secure the cover to the base wire enclosure (Figure 4).

   Note: If base wire enclosure was installed to house 10-wire electrical, go now to page 22, step 7. If Pattern is housed, go now to page 23. If hardwire electrical is housed, go now to page 29, step 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.

Privacy & Divider Screen Overview

Note: If the Connection Zone benching units being assembled will contain privacy or divider screens, reference the following sections below based on the privacy and divider screens required: Reference page 34 for privacy screens, then page 36 for divider screens with privacy screens, or page 38 for divider screens with no privacy screens. If privacy or divider screens are not required, proceed to "Modesty Panel Installation" instructions on page 39. If a perpendicular support frame is required, go now to "Perpendicular Support Frame Installation" instructions on page 42.

Privacy Screens Installation

1. Privacy screen brackets were installed earlier in this instruction, prior to installing worksurface to legs and beams (see Page 9, Step 2 & Figure 3). If privacy screen brackets have not been installed, please reference the space-planning layout and follow instructions on page 9 at this time.

2. Carefully stage privacy screens onto the floor or worksurface per the space-planning layout, taking care to not damage any components. Take note of which privacy screens will be middle units and which will be installed to either the right- or left-end locations of the benching system row.

Note: Privacy screen top end caps and link/trim strips must be removed wherever privacy screens will join together. Pry caps off with a flat-blade screwdriver, taking care to not break off the attachment tabs. Left-end and right-end privacy screen panels do not require that their outside, top end caps or their link/trim strips be removed from the outside ends.

3. Where privacy screens are to join together, first remove top end caps, then the link/trim strips and set aside (Figure 1).

4. Per the space-planning layout, set each right-, left-end and middle location privacy screens onto the privacy screen brackets of the benching system as illustrated. The upward facing bayonets of the brackets insert into the extrusion of the privacy screen frame. Take care to keep privacy screen level while sliding onto the bayonets to avoid binding (Figure 1).

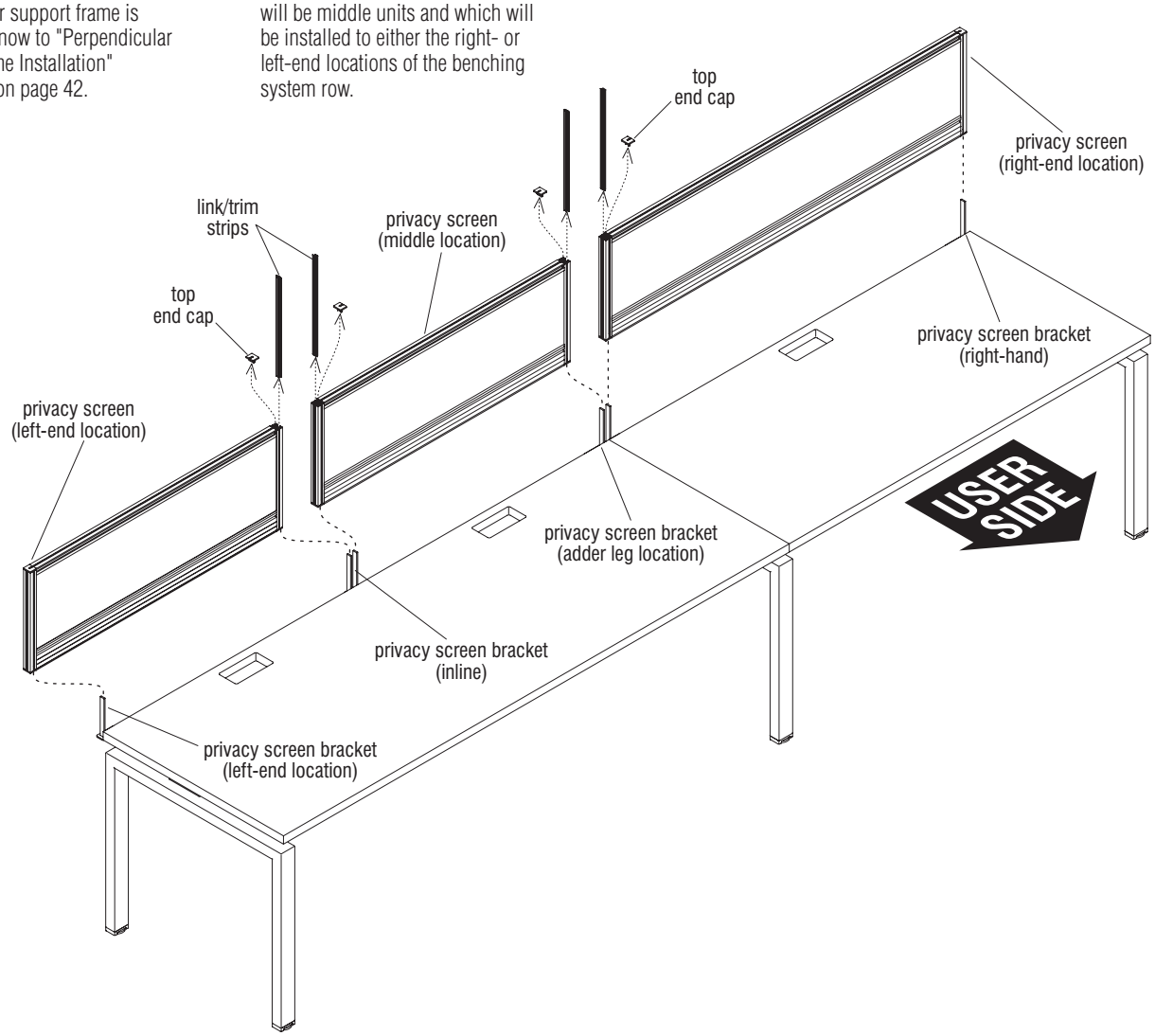


Figure 1 - Single-Sided Fixed Benching - Privacy Screens Installation

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.

Privacy Screens Installation (cont.)

5. Where privacy screens are mounted on inline brackets, take one previously removed link/trim strip and insert it down through both frames extrusions such that the strip joins both frames together. Discard the unused link/trim strips (Figure 2, Detail H).

   Note: If dividers are specified, go now to page 36, Figure 3 prior to re-installing any top caps.

6. If no dividers are to be installed, replace all top caps to privacy screens as illustrated (Figure 3).

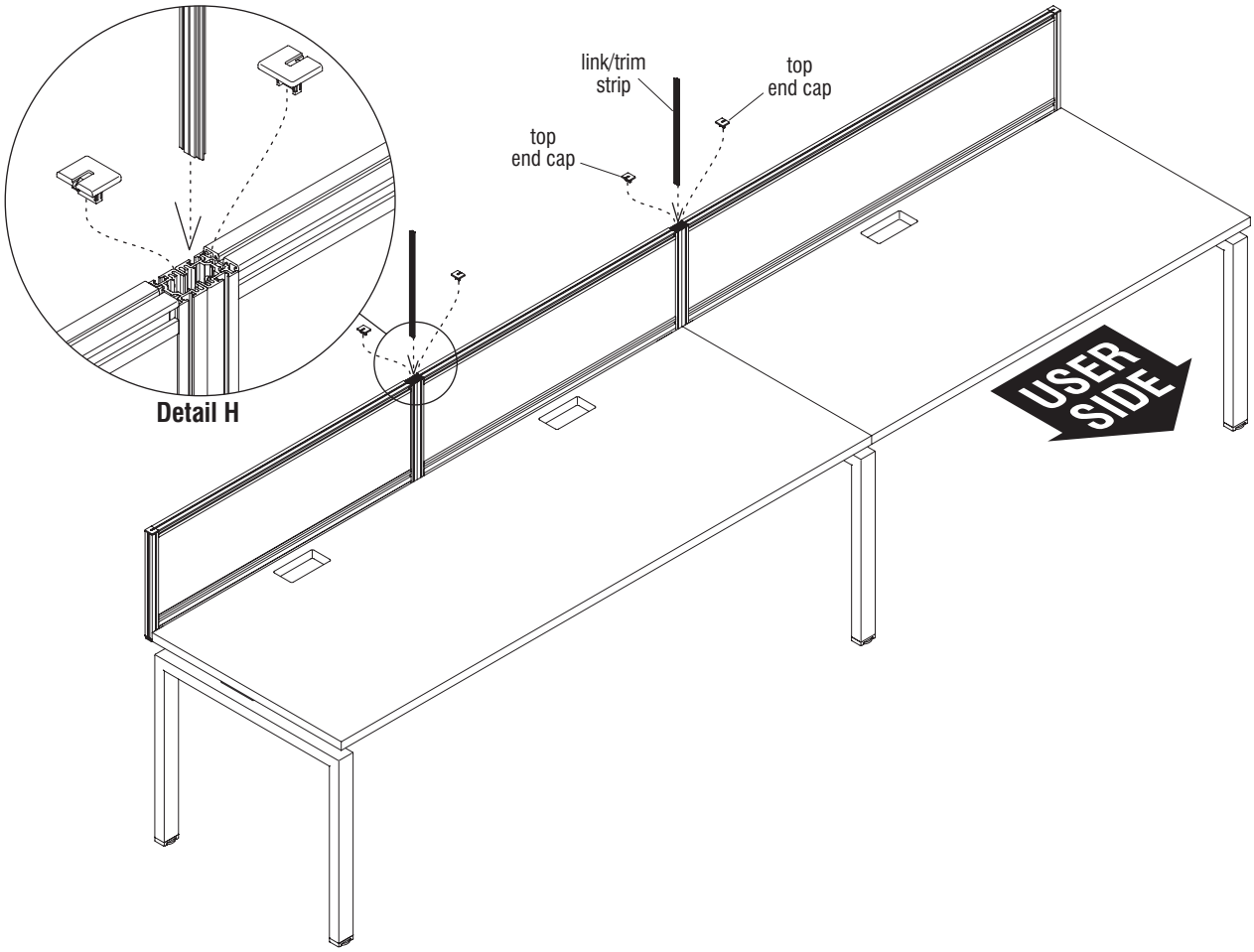


Figure 2 - Single-Sided Fixed Benching - Privacy Screens Installation

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.

Divider Screens Installation

Note: All divider screens are shipped with attachment screws in the vertical, rear member for attaching right- or left-end dividers to privacy screens. For middle divider screens only, the screws must be removed for back attachment to privacy screens. At the user side (front), middle divider screens require the use of a fixed middle divider bracket to the worksurface. Right-end divider screens use a fixed right-hand divider bracket and left-end divider screens use a fixed left-hand divider bracket at the user side (front) of the worksurface for attachment.

1. Prepare **left end divider(s)** for installation by first making sure that the top end cap is carefully removed from the privacy screen where the end divider will install. Pry the cap(s) off using a flat blade screwdriver, taking care to not break off any attachment tabs. Next, locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen near the back and twist the spacer 90° to lock it in position (Figure 3).
2. Locate and orient a "fixed left-hand divider bracket" as shown and slide it onto the front edge of the worksurface where the divider screen will install (Figure 3).
3. Position the divider screen at the end such that the attachment screw heads at the back nest into the vertical slot in the privacy screen and slide the divider screen down such that the front also slides into the bayonette of the fixed left-hand divider bracket (Figure 3).
4. Align the end divider straight with the worksurface side and tighten the set screws at the underside of the fixed left-hand divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten (Figure 3).
5. Finally, replace top end cap removed in step one. Repeat process following steps 1 through 4 for right-end divider using a "Fixed right-hand divider bracket (Figure 3).

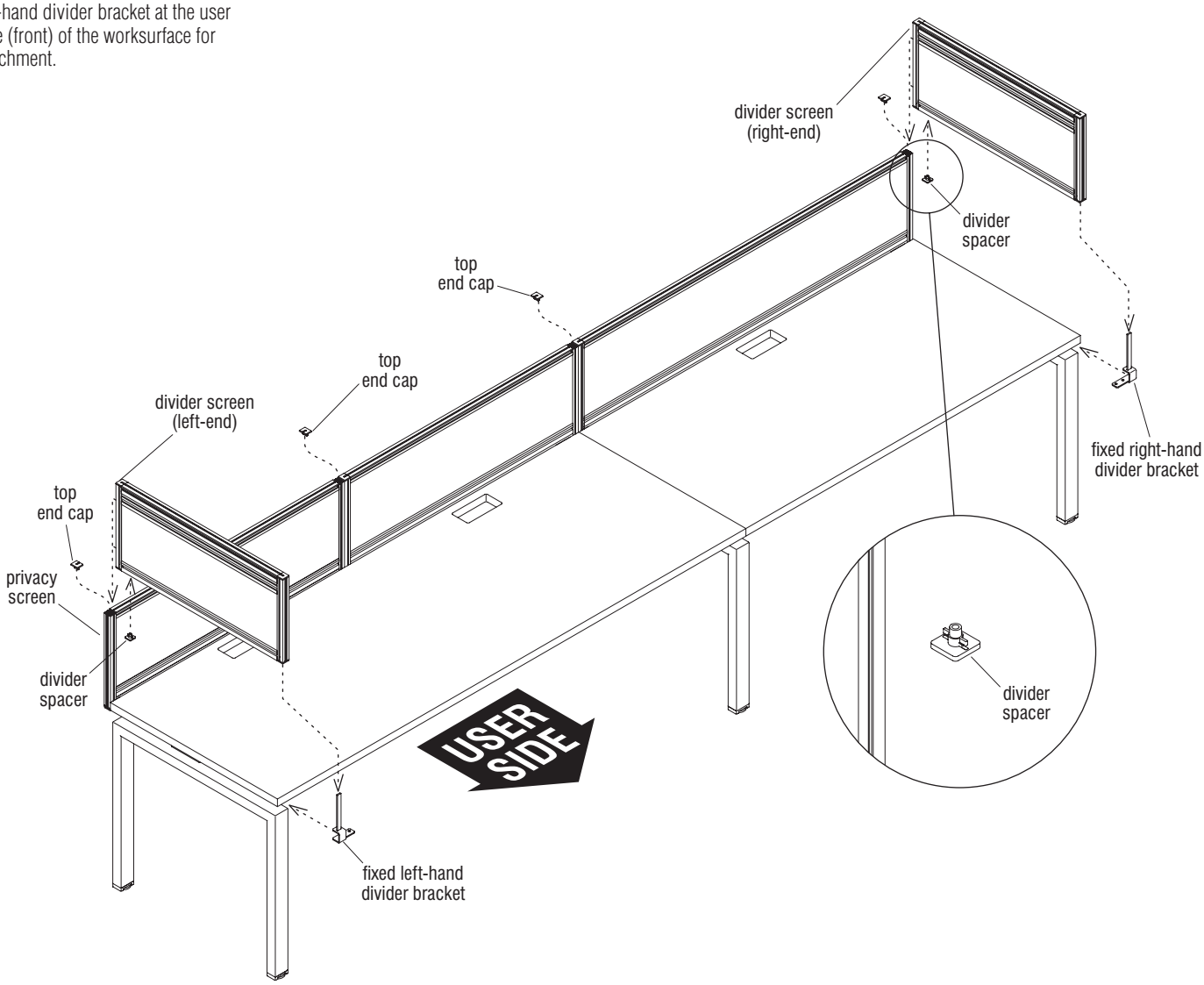


Figure 3 - Single-Sided Fixed Benching - End Divider Screens Installation

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.

Note: All divider screens are shipped with attachment screws in the vertical, rear member. For middle dividers, the screws must be removed.

6. To install a **middle divider screen**, first remove the screws from the back of the screen. Next, take care to avoid damaging attachment tabs and remove the top end cap from either the right or the left privacy screen where two privacy screens meet and the divider will install (left removal shown).

Important: Divider attachment clips can be oriented with the T-boss to the right or to the left of the clip as illustrated. The T-boss of the attachment clips are offset and must be oriented to center the middle divider properly when installed.

7. At each union of privacy screens to receive middle divider screens, correctly orient and slide the T-boss of two divider attachment clips down the T-slot (where top cap was removed) and into position with one above the other as illustrated (Figure 4).

8. Locate and orient a "fixed middle divider bracket" as shown and slide the bayonette into the hole at the bottom, front of the middle divider screen. Next, locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen near the back and twist the spacer 90° to lock it in position (Figure 4).

9. Set the middle divider screen in position on the worksurface(s) and slide back to "clip" the screen into the installed divider clips. Take care to assure the divider screen is straight and tighten the two set screws at the underside front of the fixed middle divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten.

10. Repeat the process for all middle divider screens to be installed, then re-install all top end caps that were removed. Go back and adjust all divider spacers and divider attachment clips to be uniform along the run of benching (Figure 4).

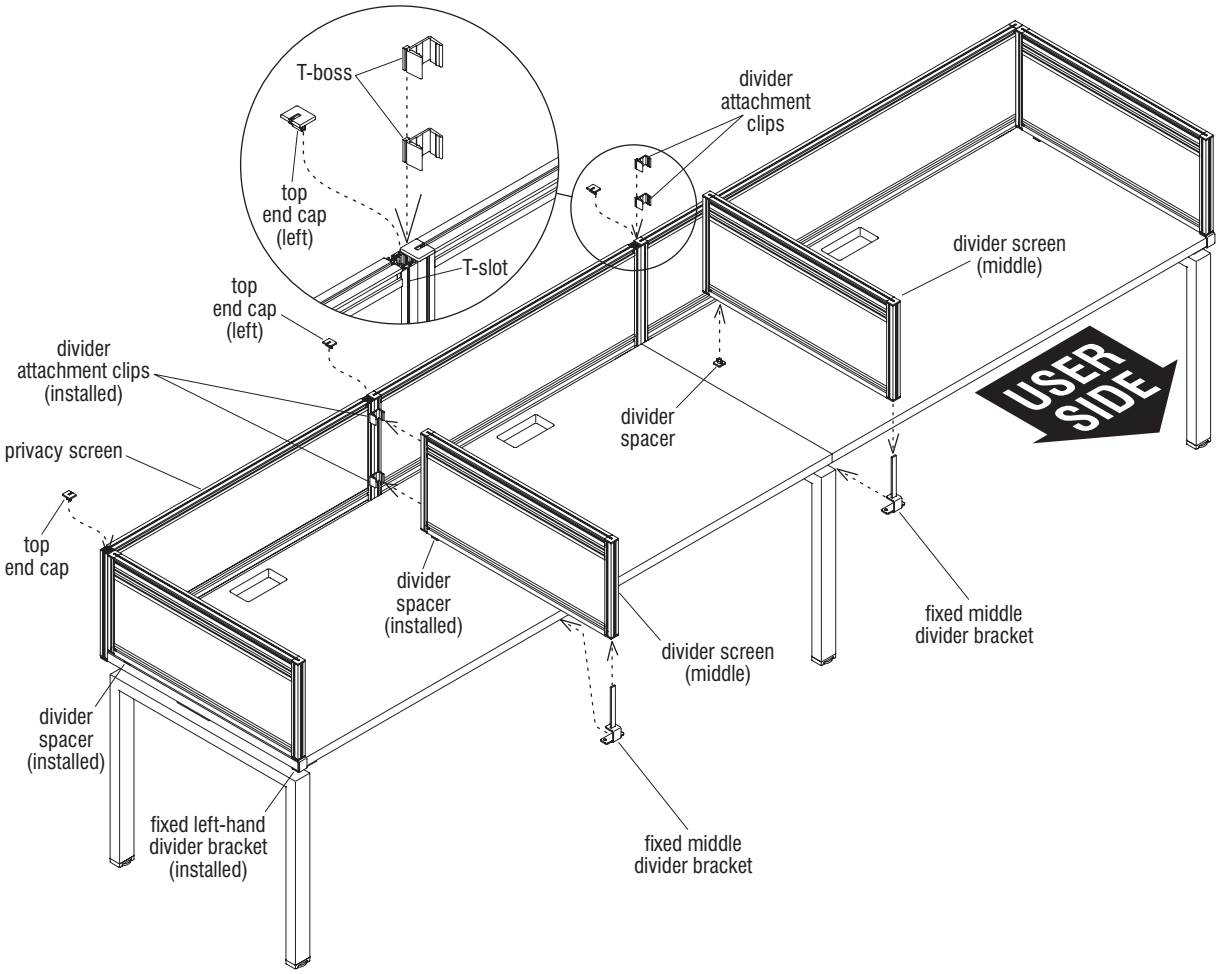


Figure 4 - Single-Sided Fixed Benching - Middle Divider Screen Installation

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.

Freestanding Divider Screens Installation (without Privacy Screens)

Note: Left-end divider screens use a fixed left-hand divider bracket at the user side (front) of the worksurface but at the back they require a fixed right-hand divider bracket. Middle divider screens require the use of a fixed middle divider bracket at both the user side (front) and the back of the worksurface. Right-end divider screens use a fixed right-hand divider bracket at the user side (front) of the worksurface but at the back they require a fixed left-hand divider bracket.

1. Prepare left end divider(s) for installation. First locate and orient a "fixed left-hand divider bracket" as shown and slide it onto the front edge of the worksurface where the divider screen will install (Figure 5).
2. Next, locate and orient a fixed right-hand divider bracket and slide it onto the back edge of the worksurface as illustrated (Figure 5).
3. Position the divider screen at the end such that the front and back slides into the bayonette of the fixed left-hand and right-hand divider brackets (Figure 5).
4. Align end divider straight with the worksurface side and tighten the set screws at the underside of both fixed divider brackets. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten (Figure 5).
5. Repeat process following steps 1 through 4 for all middle and right-end divider screens using appropriate divider brackets as illustrated and as outlined in the note above (Figure 5).

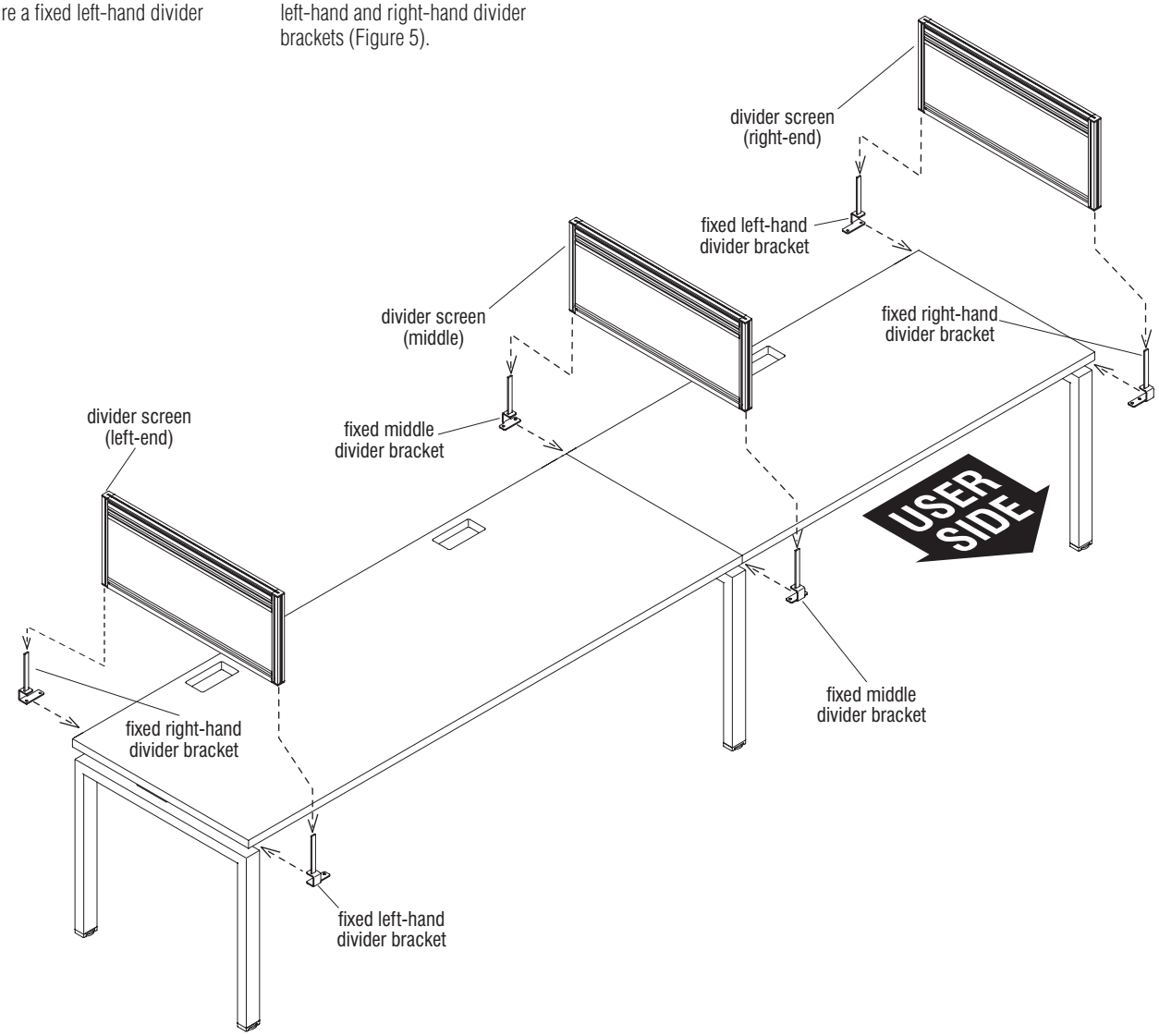


Figure 5 - Single-Sided Fixed Benching - Divider Screens without Modesty Panels Installation

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.

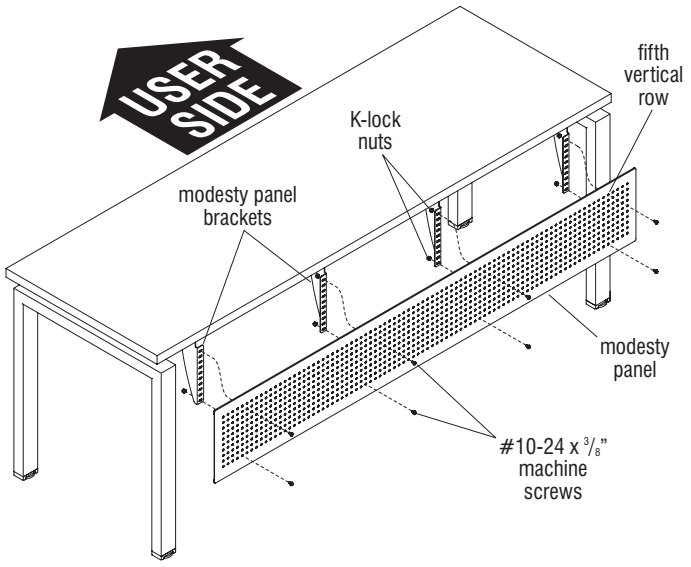


Figure 1 - Single-Sided Fixed Benching - Modesty Panel Installation

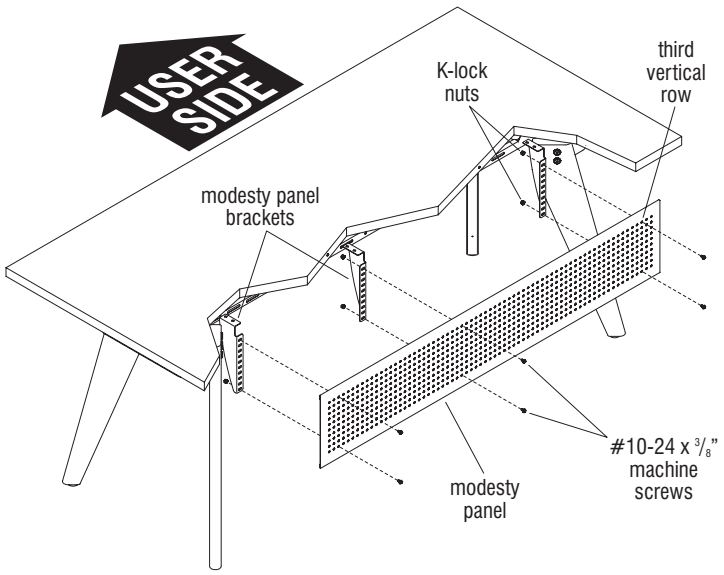


Figure 2 - Single Beam Wood Leg Desk - Modesty Panel Installation

Single-Sided Fixed Benching or Single Beam Wood Leg Desks - Modesty Panel Installation

Note: Modesty panels are sized to install between legs at the rear of the worksurface. Two people may be required to hold and install the panels.

1. Carefully position the modesty panel up to the modesty panel brackets, and align the fifth vertical row of holes (third vertical row if assembling on wood leg desk) on each end of the modesty panel with the mounting holes of the outside modesty panel brackets. Take care to also align the appropriate top and bottom mounting holes of the modesty panel with the corresponding holes in the modesty panel brackets (Figures 1 & 2).

   Note: Gaps between installed modesty panels at intermediate leg(s) will be larger than the gap at an end leg.

2. Using #10-24 x 3/8" machine screws in the front and K-lock nuts at the rear, secure modesty panel to the modesty panel brackets. Only the top and bottom mounting holes of each modesty panel bracket need be used for attaching the panel to each bracket. Take care to push upward on the bottom of the modesty panel while tightening the screws, so the unused holes in the modesty panel align with the slots in the bracket for a clean finished look (Figures 1 & 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-Sided Fixed, Café Height Benching - Modest Panel Installation

Note: Modesty panels on café height units are sized to install over legs at the rear of the worksurface. Two people may be required to hold and install the panels.

3. Carefully position the modesty panel up to the modesty panel brackets, and center the modesty panel on the worksurface. Take care to also align the appropriate top and bottom mounting holes of the modesty panel with the corresponding holes in the modesty panel brackets (Figure 3).

4. Using #10-24 x $^{3}/_{8}$" machine screws in the front and K-lock nuts at the rear, secure modesty panel to the modesty panel brackets. Only the top and bottom mounting holes of each modesty panel bracket need be used for attaching the panel to each bracket. Take care to push upward on the bottom of the modesty panel while tightening the screws, so the unused holes in the modesty panel align with the slots in the bracket for a clean finished look (Figure 3). Make sure panel is level before going to the next step.

5. After each panel is secure to brackets it must also be secured to each end leg. Use a $^{11}/_{64}$" drill to bore two pilot holes into end legs. Both pilot holes will be bored at the third vertical row of holes inward, with one hole drilled into the second row down, and the other hole drilled in the second row from the bottom as illustrated (Figure 3).

6. Using a cordless power drill with Phillips tip and the supplied #10-24 x $^{1}/_{2}$" self-tapping screws (not color-matched), guide a screw through the appropriate modesty panel hole and thread the screw into the previously made pilot holes on the end legs to create #10-24 threads in the holes. After the threads have been made, remove the screw from the hole, and repeat for the others in the legs (Detail I).

7. Next, using the supplied #10-24 x $^{3}/_{8}$" machine screws (color-matched) and flat washers, secure the modesty panel to the leg. Flat washers go between the modesty panel and the leg as illustrated (Figure 3).

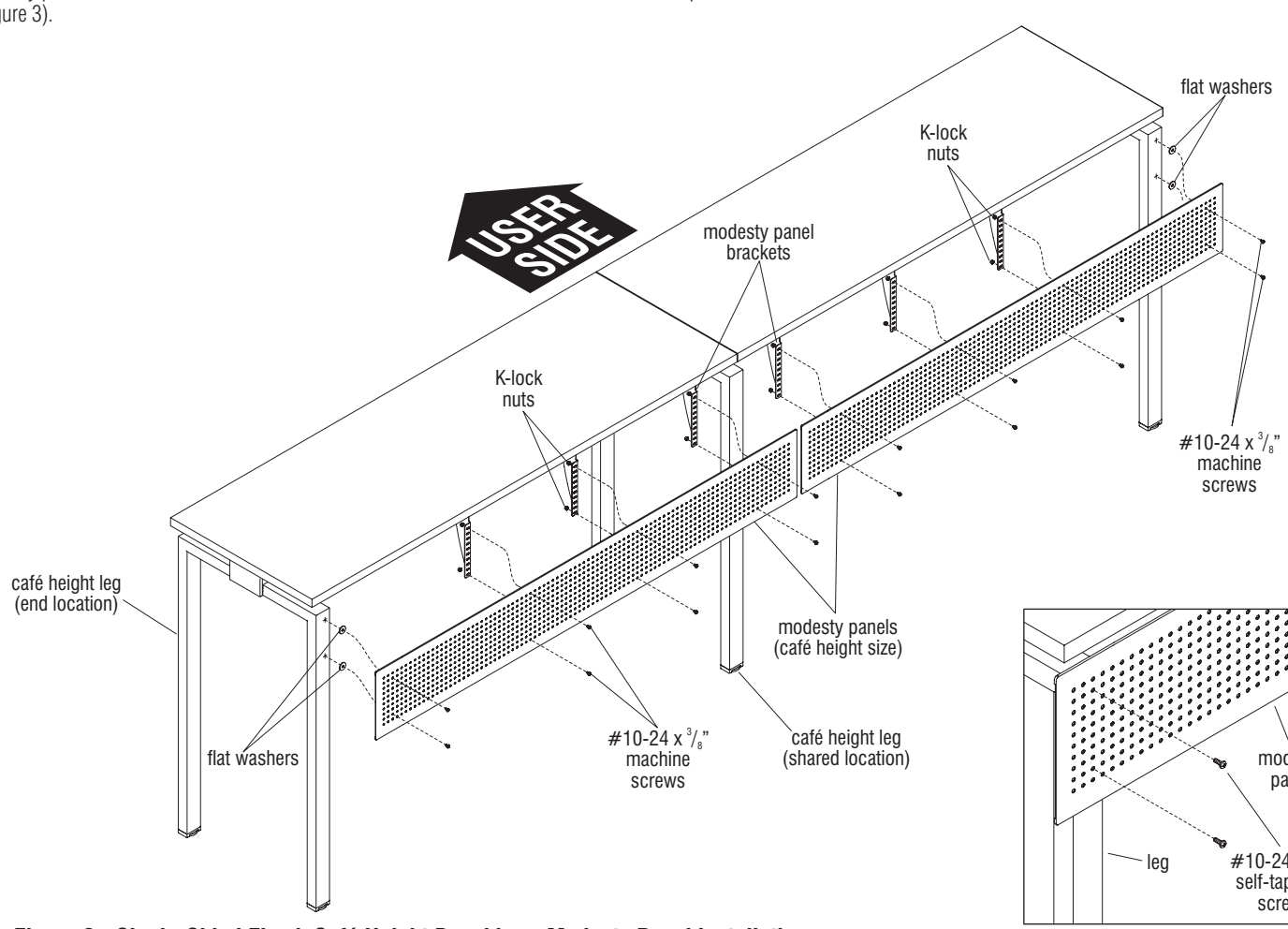
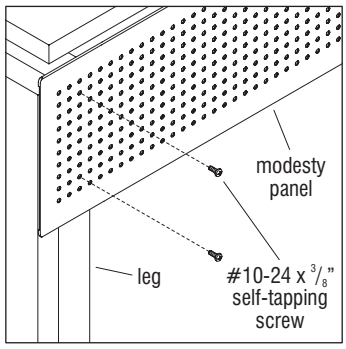


Figure 3 - Single-Sided Fixed, Café Height Benching - Modesty Panel Installation



Detail I

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.

Teaming Table Top to Single Row Fixed Café Height Benching

Note: Modesty panels will install to both sides of café height, fixed single row benching with teaming table tops.

1. If the table being assembled will have a teaming table top with a grommet hole in the center, the L-plate will need to be disassembled and moved so it will not interfere with the grommet location. Move the L-bracket over and reinstall it in a different slot location within the beam assembly (Figure 4).
2. Set teaming top onto the legs/beam assembly. If the top has a grommet hole in the center, check to make sure that the L-bracket does not show through the grommet hole, otherwise remove the top and refer back to step 1 (Figure 4).
3. Align the mounting holes in the underside of the over-sized top with the mounting holes of the worksurface brackets and secure using two #12 x 1" Phillips pan head screws per bracket (Figure 4).

Note: Modesty panels on fixed café height units with teaming table tops are sized to install over legs at the rear of the worksurface. Two people may be required to hold and install the panels.

4. Carefully position the modesty panel up to the modesty panel brackets, and center the modesty panel on the worksurface. Take care to also align the appropriate top and bottom mounting holes of the modesty panel with the corresponding holes in the modesty panel brackets (Figure 4).
5. Using #10-24 x $^{3}/_{8}$" machine screws in the front and K-lock nuts at the rear, secure modesty panel to the modesty panel brackets. Only the top and bottom mounting holes of each modesty panel bracket need be used for attaching the panel to each bracket. Take care to push upward on the bottom of the modesty panel while tightening the screws, so the unused holes in the modesty panel align with the slots in the bracket for a clean finished look (Figure 4). Make sure panel is level before going to the next step.
6. After each panel is secure to brackets it must also be secured to each end leg. Use a $^{11}/_{64}$" drill to bore two pilot holes into end legs. Both pilot holes will be bored at the third vertical row of holes inward, with one hole drilled into the second row down, and the other hole drilled in the second row from the bottom as illustrated (Figure 4).
7. Using a cordless power drill with Phillips tip and the supplied #10-24 x $^{1}/_{2}$" self-tapping screws (not color-matched), guide a screw through the appropriate modesty panel hole and thread the screw into the previously made pilot holes on the end legs to create #10-24 threads in the holes. After the threads have been made, remove the screw from the hole, and repeat for the others in the legs (page 40, Detail I).
8. Next, using the supplied #10-24 x $^{3}/_{8}$" machine screws (color-matched) and flat washers, secure the modesty panel to the leg. Flat washers go between the modesty panel and the leg as illustrated (Figure 4).

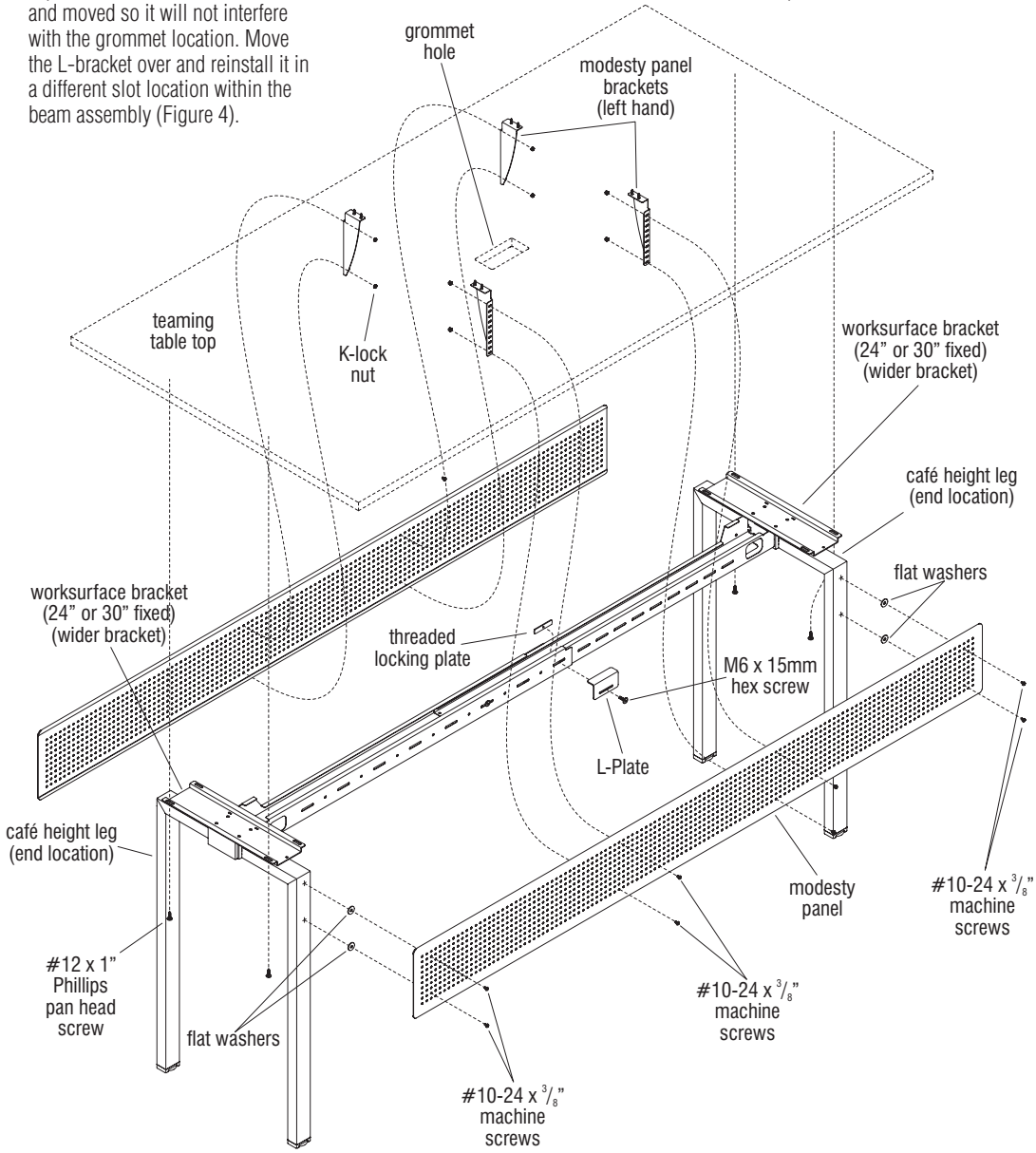


Figure 4 - Teaming Table, Single-Sided Fixed Café Height Benching

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-Sided Fixed Benching or Single Beam Wood Leg Units - Perpendicular Support Frame Installation

Note: The space-planning layout may specify "perpendicular support frames" used in various configurations. The instructions to follow outline the assembly of one combination, a perpendicular support frame return worksurface connected to a rectangular worksurface. Your configuration may vary.

1. Carefully set the return worksurface (to receive the perpendicular support frame) upside down on a soft, protective surface. Position the support frame onto the appropriate pre-drilled holes in the return worksurface. Secure perpendicular support frame to return at all mounting locations using eight #12 x 1" Phillips pan head screws (Figure 1).

2. At the underside edge of the rectangular worksurface, where the return is to adjoin, secure two 3" x 6" splice plates, using two #12 x 1" Phillips pan head screws each plate, as illustrated (Figure 2).

3. Carefully turn the return worksurface over and rest the adjoining edge squarely onto the splice plates of the rectangular worksurface. Take care to make sure the return surface is square and the worksurface edges are tight. Adjust the glides of the perpendicular support frame to assure the return surface is level to the rectangular worksurface, then secure the splice plates to the underside of the return worksurface using four #12 x 1" Phillips pan head screws (Figure 2).

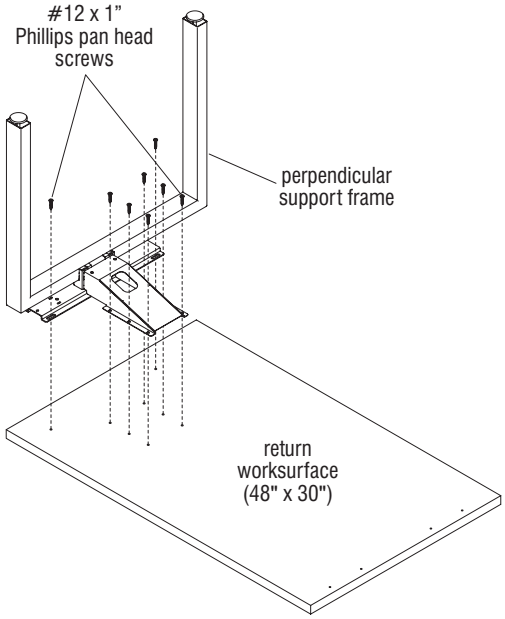


Figure 1 - Single-Sided Fixed Benching - Perpendicular Support Frame Installation

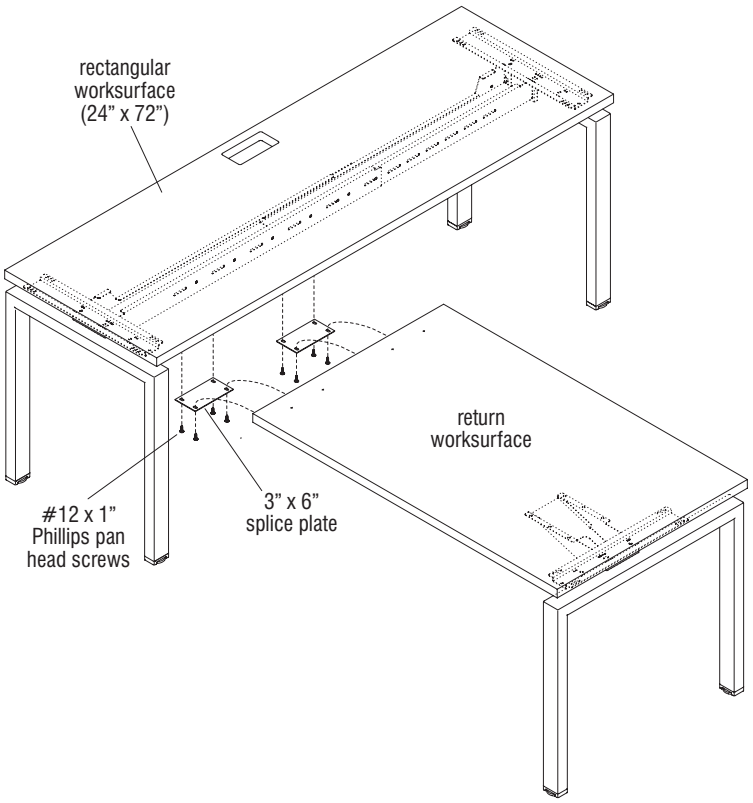


Figure 2 - Single-Sided Fixed Benching - Perpendicular Support Frame Installation

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.

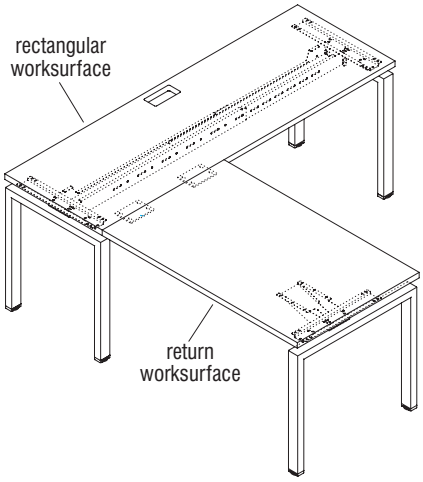


Figure 3 - Return with Standard Rectangular Worksurface

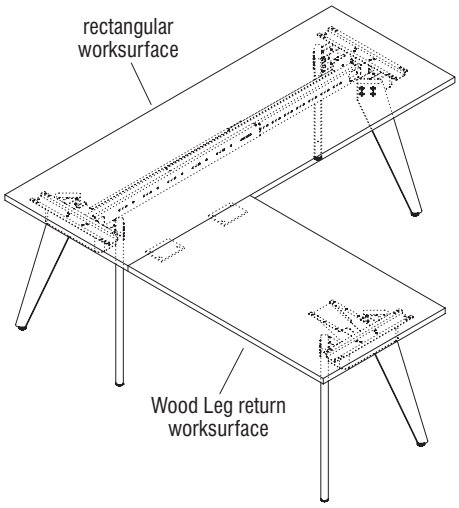


Figure 4 - Wood Leg Rectangular Desk with Wood Leg Return

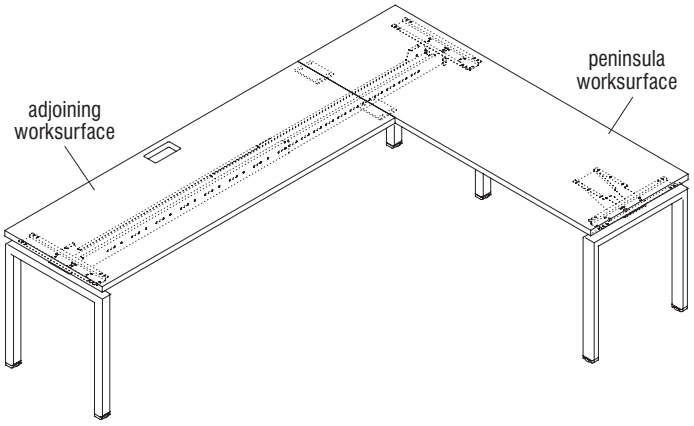


Figure 5 - Peninsula with Adjoining Worksurface

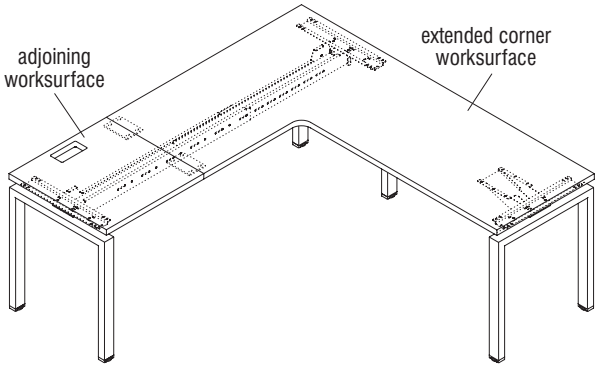


Figure 6 - Extended Corner with Adjoining Worksurface

Note: The space-planning layout may specify "perpendicular support frames" used in various configurations. This page illustrates four possible uses of the Perpendicular Support Frame. Your configuration may vary.

4. See the illustrations on this page for configuration possibilities, splice plate and peninsula support frame usage (Figures 3, 4, 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.

Dual-Sided Benching - General Assembly Overview

Note: If the Connection Zone being assembled is a dual-sided benching unit, continue following the instructions on this page. If the unit being assembled is a dual-sided wood leg benching unit, proceed to the instructions on page 48.

Dual-Sided Benching - General Assembly

1. Carefully unpack Connection Zone components, review the space-planning layout and study Figures 1 through 4 to identify parts for assembly. Position legs and beams onto floor at the installation location per the space-planning layout (Figures 1 through 4).

   Note: Beams are adjustable in length and have a **"short-wall" side, which must be positioned to face the inside of the unit.** Dual-sided end legs are non-handed, so can be used on either end of the benching unit (Figure 1).

2. With the short-wall side of both beams facing the center of the unit, insert both beam ends into the beam-mount brackets at the top of each "dual-sided end" leg. Using a 1½" diameter, weighted hard-rubber mallet, tap down on the vertical walls at the mounting end of each beam until you hear the beam bottom-out, so each is properly nested in the beam-mount bracket (do not hammer on the ½" formed top flange of beams) (Figure 1).

3. Per the space-planning layout and worksurface length to be supported, stretch the legs out (extending the beam) to the distance matching the length of the worksurface(s). **To achieve the correct length, measure from the far outside end of one end leg to the far outside end of the opposite end leg, or to the center of an intermediate leg** if an adder is used (Figures 1 through 4).

4. Locate the beam hardware parts bag which contains four threaded locking plates, four M6 x 15mm hex-drive screws and four plastic beam grommets. As illustrated, at the center of each beam, place four threaded locking plates inside the beam area at mounting hole/slot locations. From outside the beam at two slot locations on the short-wall side and at one slot location at the tall-wall side, insert three M6 x 15mm hex-drive screws through the beam mounting holes and into the threaded locking plates. At an additional tall-wall slot location, install the correct L-Plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. **Important:** The screws, when installed into holes and slots should allow at least ¼" of side-to-side play, and be located nearest the ends of both inner and outer members to provide the greatest stability. **Twist screws in only finger-tight at this time** (Figure 1).

   Note: If beam is 36" to 42" in length, no L-Plate is required. If beam is 48" to 72" in length, install a ⅛" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is 72" to 96" in length, install a ¼" thick L-plate using a M6 x 15mm hex-drive screw through the L-Plate, the beam assembly and into a threaded locking plate as with the others. If beam is installed to a sliding top, L-Plate will include slippery tape at the top. If installation consists of a mix of sliding and fixed tops, take care to not mix up the L-Plates.

5. At both ends of the beam, install two plastic beam grommets into the beam wire-access holes, positioning the larger flange to the outside when nesting into place (Figure 1).

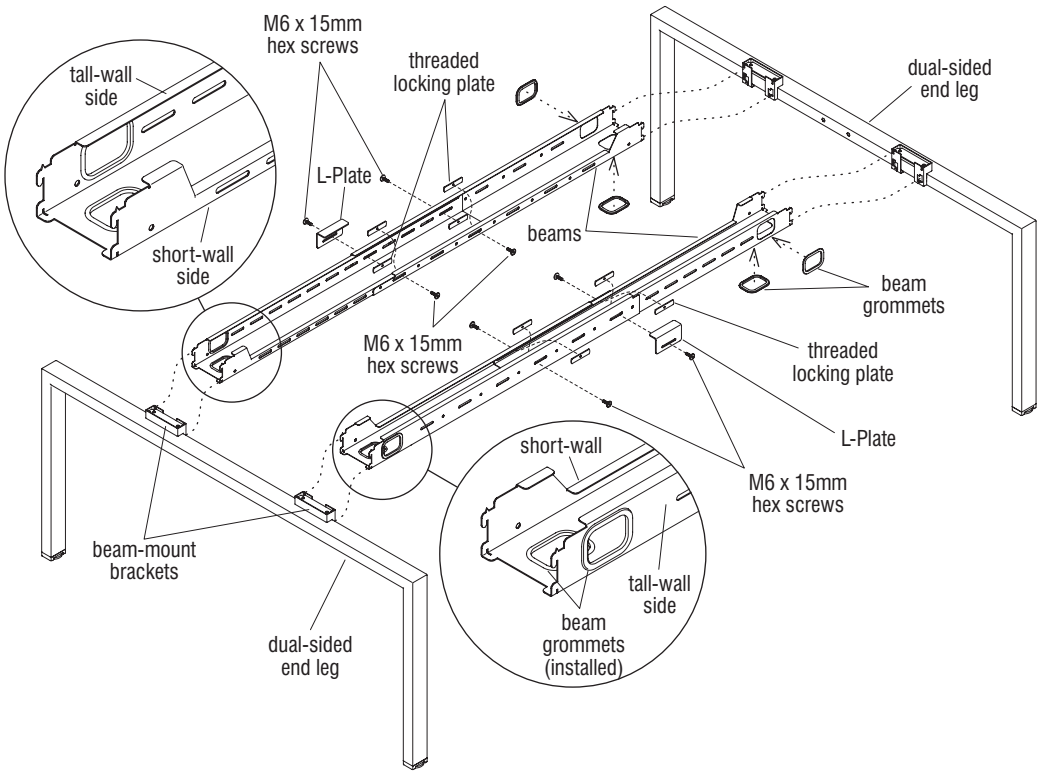


Figure 1 - Dual-Sided Stand-Alone Benching - Beams & Legs Assembly

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.

Dual-Sided Benching - General Assembly (cont.)

Note: If installation requires intermediate legs with additional beams for multiple dual-row worksurfaces (as most do), proceed to the instructions on pages 46 & 47. **Before attaching any worksurface brackets to unit(s), all beams must be securely installed to end and intermediate legs.**

6. Per the space-planning layout, determine if the stand-alone unit being assembled is to have sliding or fixed worksurfaces installed. Depending on which option, either "fixed worksurface brackets", or "sliding worksurface brackets" will be installed. Refer to either step 7 or 8 below (Figure 2).

7. Install four **fixed worksurface brackets** to the "beam-mount brackets" on the horizontal top of each dual-sided leg. As illustrated, center the worksurface bracket over the beam-mount bracket, align mounting holes and secure using two M8 x 20mm hex-drive screws per fixed worksurface bracket.

8. To install four **sliding worksurface brackets** to the "beam-mount brackets" at the top of each dual-sided leg, first position the bracket so mounting flange with the slots faces away from the legs, toward the center of the unit. Align the appropriate mounting holes of the sliding worksurface bracket with the threaded inserts in the beam-mount brackets and secure each using two M8 x 20mm hex-drive screws per sliding worksurface bracket (Figure 2).

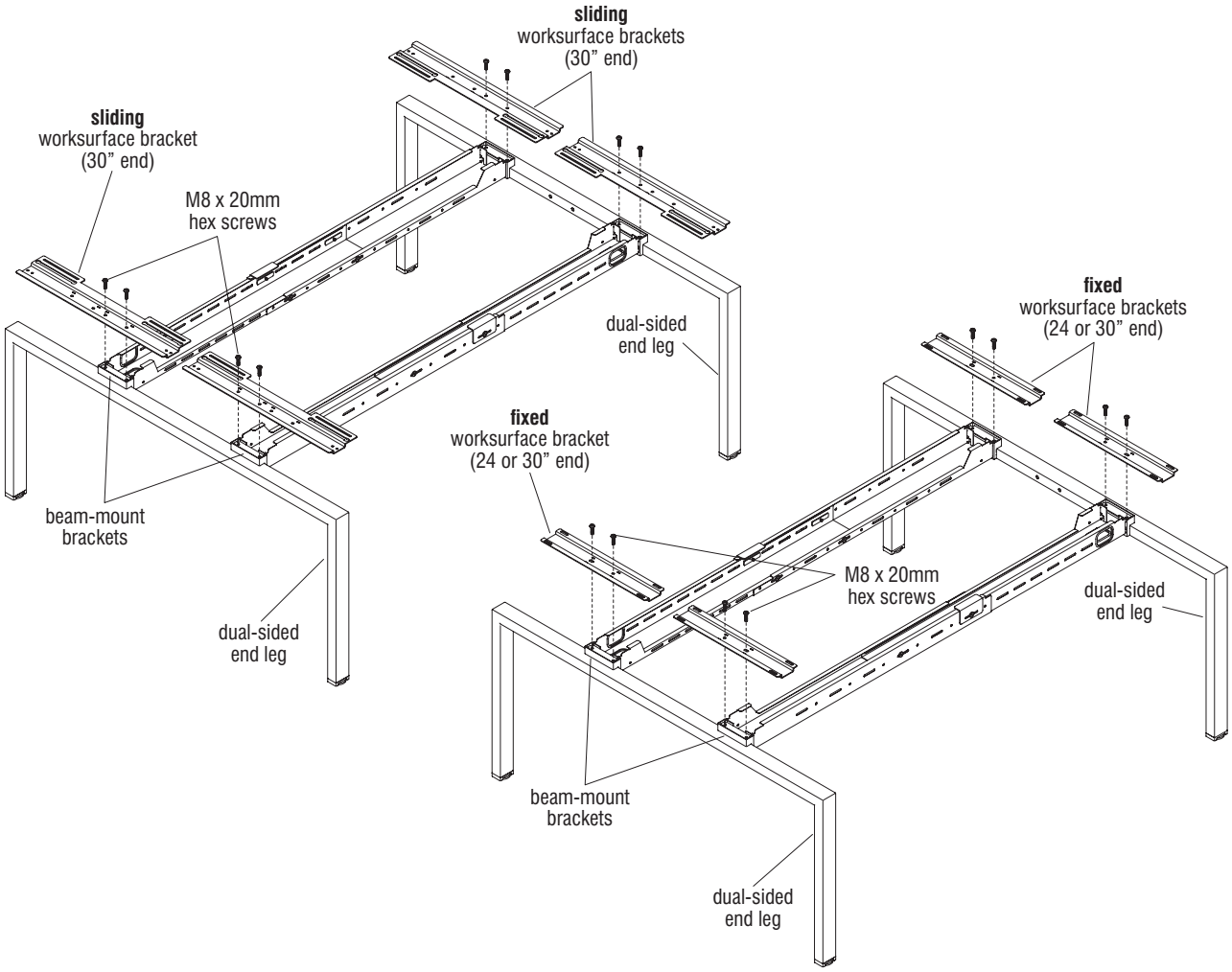


Figure 2 - Dual-Sided Stand-Alone Benching - Worksurface Brackets

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.

Note: If installation requires intermediate legs with additional beams for multiple dual-sided worksurfaces (as most do), carefully follow the instructions below. **Before attaching any worksurface brackets, all beams must be securely installed to end and intermediate legs.**

9. Dual-sided intermediate legs (with four beam-mount brackets per leg) are used in multiple top, "adder" runs of benching (Figures 3 & 4). Attach beam pairs to intermediate legs per the space-planning layout and as described in steps 2 through 5 (Figures 1, 3 & 4).

Note: Figure 2 (previous page) shows dual-sided legs with "fixed" and "sliding" worksurface bracket installation at "end" legs only. Figures 3 & 4 show dual-sided intermediate legs utilizing the wider intermediate worksurface brackets ("fixed" at Figure 3 & "sliding" at Figure 4) installing to an "intermediate" leg (as well as "end" legs and end worksurface bracket installation).

10. Reference step 7, previous page for installation of **fixed worksurface brackets at end legs.** Install **fixed intermediate worksurface brackets** to the two "beam-mount brackets" of intermediate legs by aligning the brackets as illustrated over the mounting holes, and using four M8 x 20mm hex-drive screws (Figure 3).

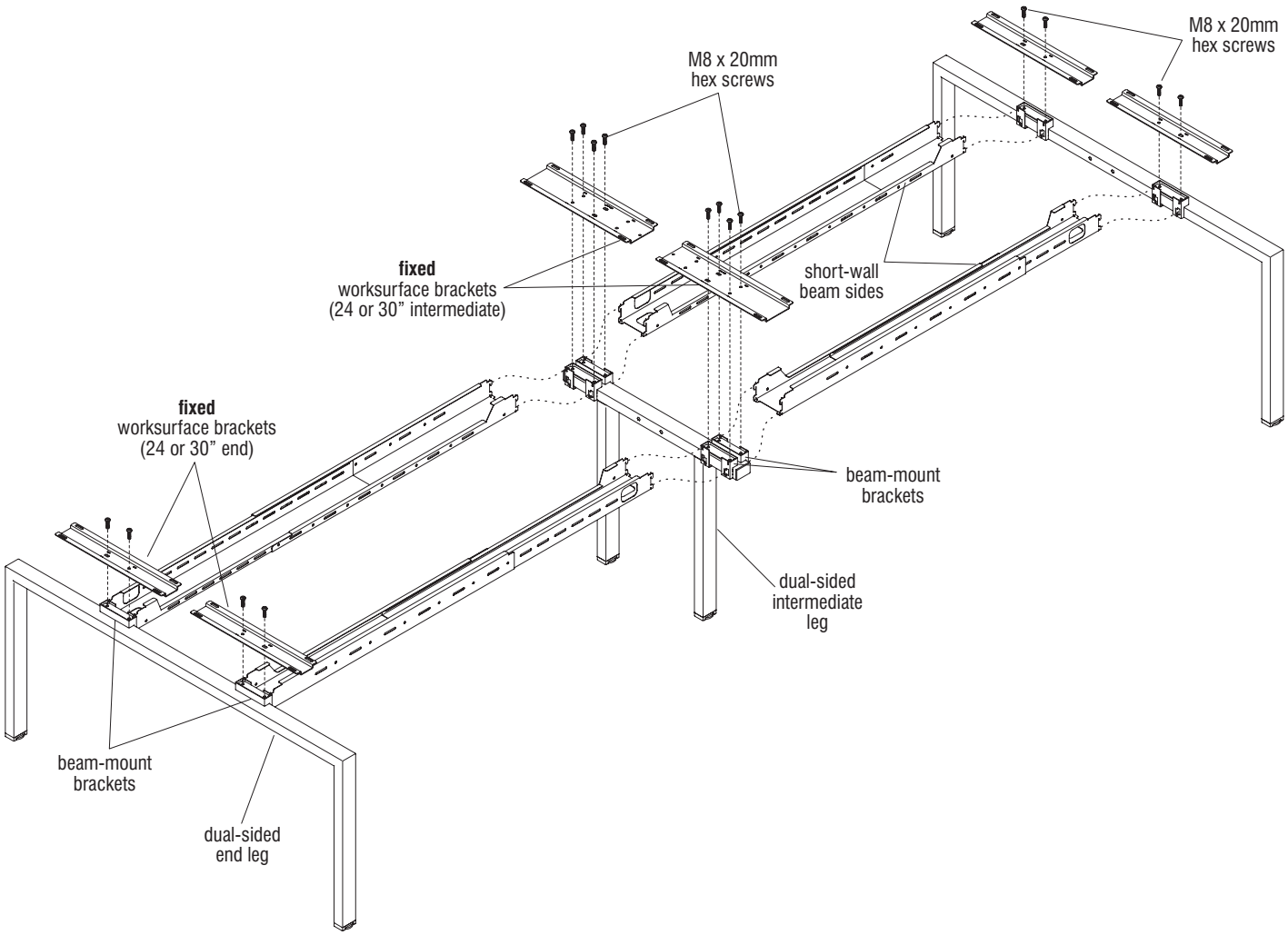


Figure 3 - Dual-Sided Multiple Worksurface "Adder" Benching with Fixed Worksurface Brackets

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.

Dual-Sided Benching - General Assembly (cont.)

Note: If installation requires intermediate legs with additional beams for multiple dual-sided worksurfaces (as most do), carefully follow the instructions below. **Before attaching any worksurface brackets, all beams must be securely installed to end and intermediate legs.**

11. Dual-sided intermediate legs (with four beam-mount brackets per frame) are used in multiple top, "adder" runs of benching (Figures 3 & 4). Attach beam pairs to intermediate legs per the space-planning layout and as described in steps 2 through 5 (Figures 1, 3 & 4).

Note: Figure 2 (page 45) shows dual-sided support frames with "fixed" and "sliding"worksurface bracket installation at "end" legs only. Figures 3 & 4 show dual-sided intermediate legs utilizing the wider intermediate worksurface brackets ("fixed" at Figure 3 & "sliding" at Figure 4) installing to an "intermediate" leg (as well as "end" legs and end worksurface bracket installation).

12. Reference step 8, (page 45) for installation of **sliding worksurface brackets at end legs.** Install **sliding intermediate worksurface brackets** to the two "beam-mount brackets" of intermediate legs by aligning the brackets as illustrated over the mounting holes, and using four M8 x 20mm hex-drive screws (Figure 4).

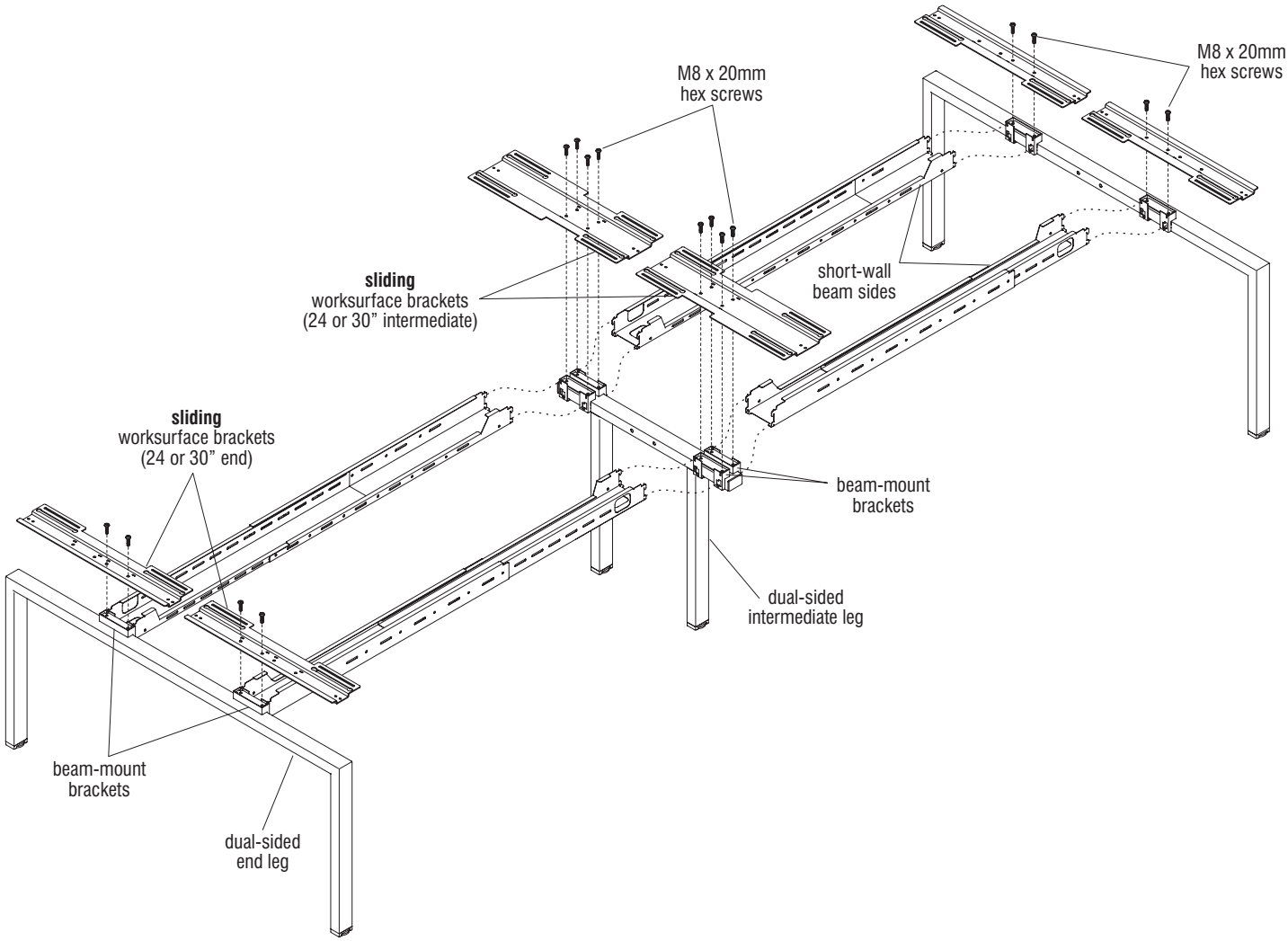


Figure 4 - Dual-Sided Row Multiple Worksurface "Adder" Benching with Sliding Worksurface Brackets

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.

Dual-Sided Wood Leg Benching - General Assembly

1. Carefully unpack Connection Zone components, review the space-planning layout and study Figures 5, 6, 7 & 8 to identify parts to assemble. Position all legs and beams onto the floor per the space-planning layout (Figures 5, 6, 7 & 8).

Dual-Sided Wood Leg Benching - End Leg Assembly

1. Correctly position the dual beam wood leg apron and wood leg uprights as illustrated in Figure 5.

2. Locate the dual-sided wood leg benching end leg hardware parts bag. Thread each M8 x 30mm set screw into a M8 threaded cap to create the M8 x 40mm set screw assemblies for the next step (Figure 5).

3. Align the holes of the wood leg uprights with the holes on the wood leg apron. Insert and tighten four M8 x 40mm set screw assemblies with inserts through the leg and correctly positioned apron (Figure 5).

Dual-Sided Wood Leg Benching - Intermediate Leg Assembly

Note: Take care and follow directions below when assembling the intermediate wood leg uprights to the intermediate wood leg apron. If tap-in threaded inserts are not installed on the correct side of each upright, the uprights will not install correctly to the apron and disassembly and reassembly will be required.

1. Position the intermediate wood leg uprights to face the same direction on a soft protective surface (Figure 6).

2. Locate the intermediate wood leg upright hardware parts bag which contains eight M8 x 50 connector bolts and tap-in inserts. Making sure the leg uprights are facing the same direction and oriented as illustrated, insert four tap-in inserts into the wood leg upright holes (Figure 6).

Note: When inserting the intermediate wood leg uprights into the intermediate wood leg apron, it is important to note which sides the M8 x 50 connector bolts secure the upright to the apron. Make sure each leg upright face with the tap-in inserts is facing away from the apron side with the M8 x 50 connector bolt holes. If incorrectly installed, disassembly and reassembly will be required.

3. Position the intermediate wood leg uprights as illustrated in Figure 7, having each upright side with the inserts facing away from apron side with the M8 x 50 connector bolt holes. Insert leg uprights into the apron slots (Figure 7).

4. Align the mounting holes of the wood leg with the holes in the wood leg apron. Using, four M8 x 50 connector bolts, secure the apron to each wood leg upright (Figure 7).

5. From the hardware parts bag from step 2, locate two intermediate leg end caps. Using a $1^1/_2$" diameter, weighted hard-rubber mallet, tap an end cap into each open end of the apron (Figure 7).

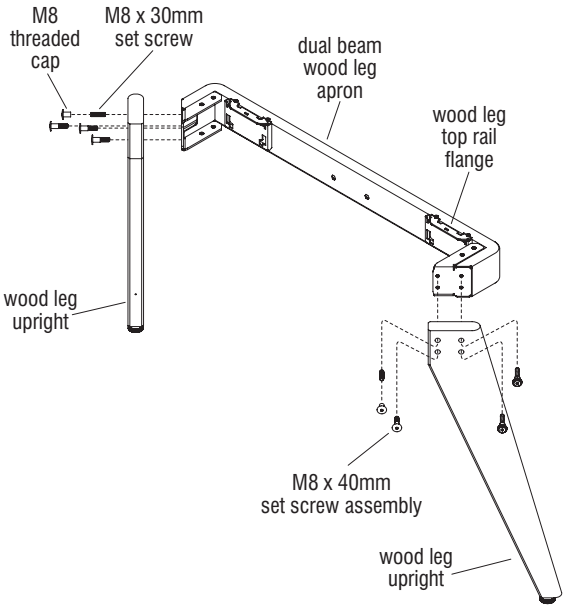


Figure 5 - Dual-Sided Wood Leg Benching Legs & Beam Assembly

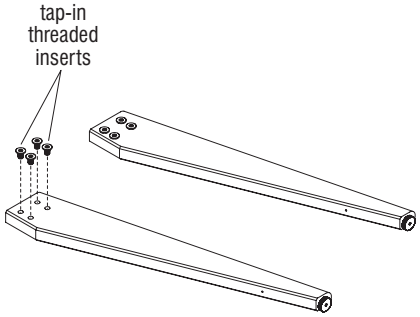


Figure 6 - Intermediate Wood Legs

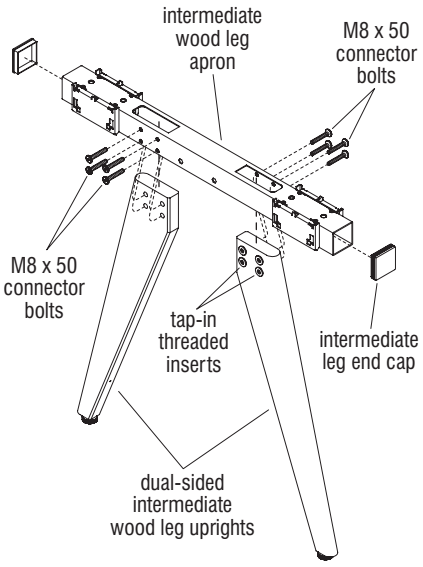


Figure 7 - Intermediate Wood Leg

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.

Dual-Sided Wood Leg Benching General Assembly (cont.)

Note: Once the dual-sided wood leg end legs/intermediate wood leg components are assembled together, assembling the dual-sided wood leg benching system is the same as assembling the dual-sided benching system (steel). Go now to page 44 and follow steps 1 through 12 to complete assembly of the dual-sided wood leg benching frame, referencing this page for correct visualization.

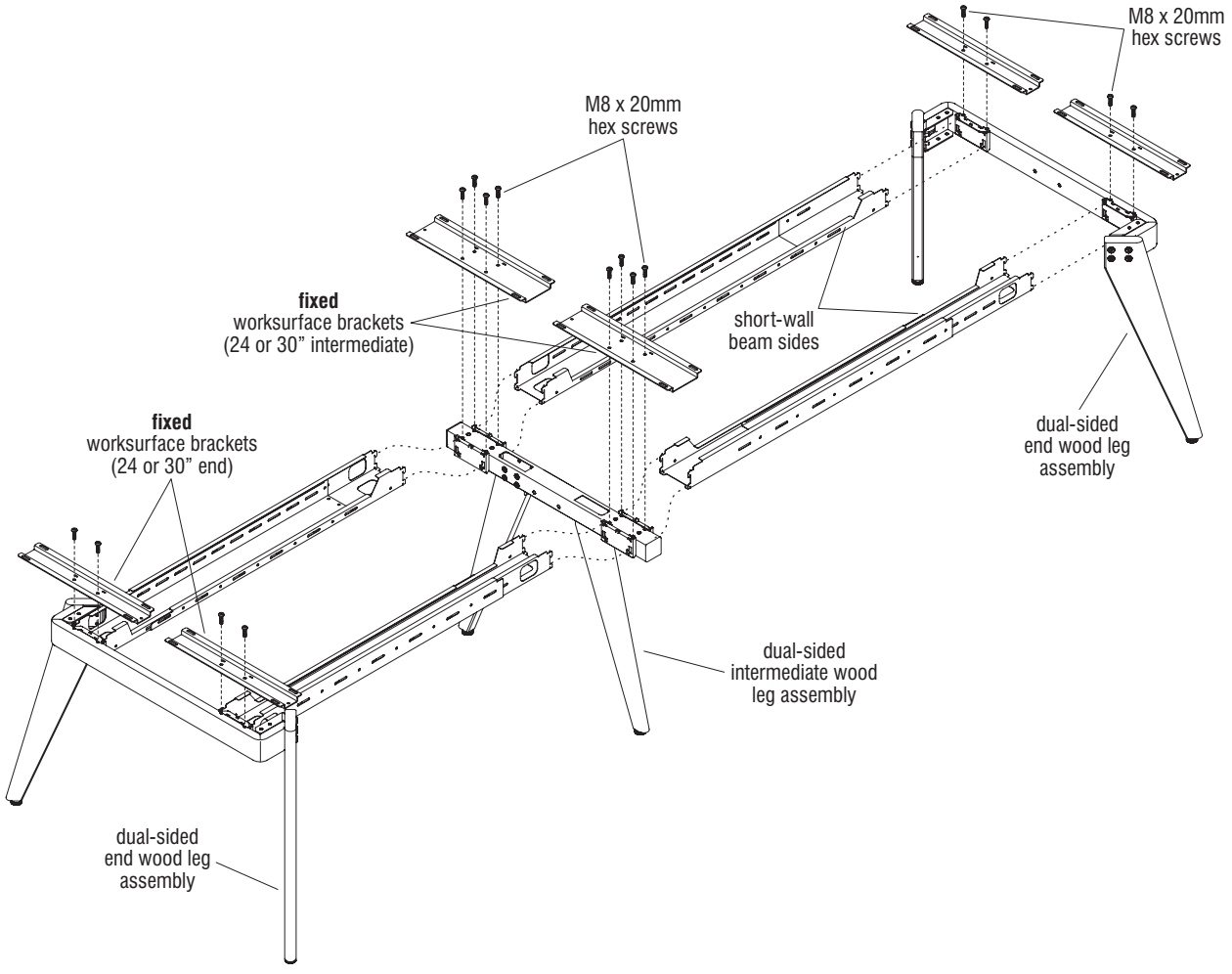


Figure 8 - Dual-Sided Wood Leg Multiple Worksurface (Adder) Benching with Fixed Worksurface Brackets

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.

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

Dual-Sided Benching with 10-Wire Electrical - 10-Wire Harness Installation

1. Carefully unpack Connection Zone electrical components, hardware and identify parts shown on Figures 1, 2 & 3.

   Note: The process for installing 10-wire electrical is the same for both the Dual-Sided Benching System (Steel) and the Dual-Sided Wood Leg Benching System. The instructions to follow demonstrate assembling 10-wire electrical to a Dual-Sided Benching System (steel), your configuration may vary.

   Important: Per the space-planning layout, at locations where top power infeed enters a benching unit, a top infeed support bracket must attach to the leg in front of a wireway mounting bracket. This process is outlined on page 52, Figure 4 & Detail C and should be coordinated with installation of bracket installation described on this page.

   Note: Dual-sided benching (steel) and Wood Leg Dual-sided benching use different top infeed support brackets but installation is the same. For top infeed support bracket reference Figure 3 and for wood leg top infeed support bracket reference Detail C.

   Note: The dual-sided benching illustration and instructions below illustrate a "typical" stand-alone unit with 10-wire harness option, so this should be studied and understood as the pages after this section will cover multiple "adder" installations with 10-wire harness assembly.

2. Locate the 10-wire harness assembly, which comes as a tray with one or two 10-wire rigid wireways attached, depending on length. If two rigid wireways are attached, plug the appropriate 10-wire jumper in between the two wireways. Locate and plug all duplex receptacles into both sides of the rigid wireways, taking care to follow the space-planning layout for correct receptacle number/placement (Figure 1).

   Note: The 10-wire harness assembly utilizes two "wireway mounting brackets", one at each end where they secure the unit to the inside of each leg. **It is important to know if your installation is to include privacy screens prior to installing the 10-wire harness assembly to the legs.** If privacy screens will be attached in later steps, certain specific dual-end, or dual intermediate privacy screen brackets must always be positioned against the leg first before installing any other brackets. If a top infeed support bracket is to install (page 52, Figure 4 & Detail C), it positions over the dual-end privacy screen bracket, then the wireway mounting bracket positions over the two, and finally they are installed using two M8 x 20mm hex screws. **If this is not done, disassembly and re-assembly will be required.**

   Important: Dual privacy screen brackets are different for use at "end" or "intermediate" legs (Detail A) (covered in more detail later). Although the mounting holes in both styles are slotted, **it is important to always route the M8 x 20mm hex screws through the bottom holes in the slots**, for both fixed and sliding installations. Routing through the bottom holes lifts the bracket up to where it must be for future component installation. **If this is not done correctly, disassembly and re-assembly will be required.**

3. Secure one wireway mounting bracket to the inside of each leg as illustrated (over the appropriate privacy screen bracket if required) using two M8 x 20mm hex-drive screws (Figure 1).

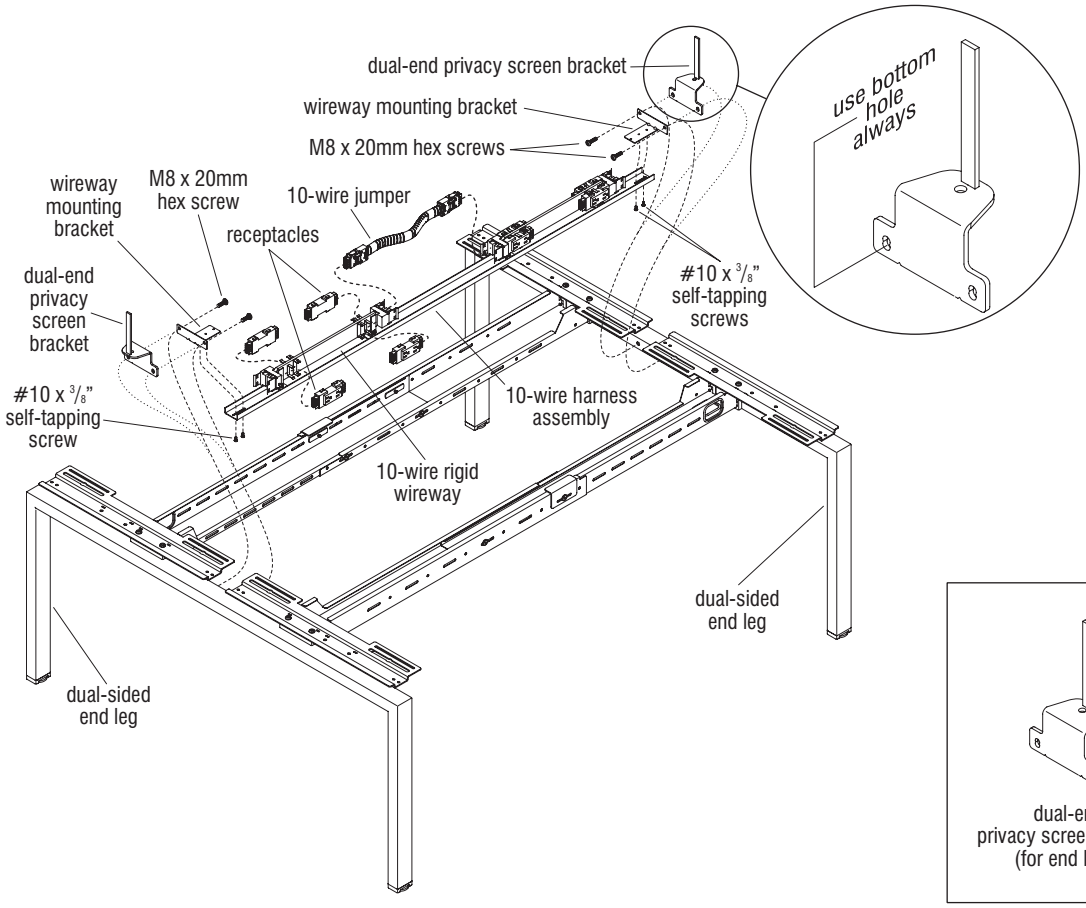
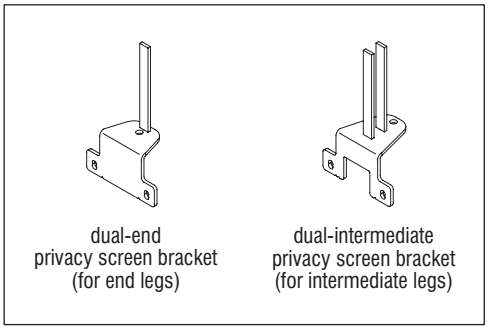


Figure 1 - Dual-Sided Stand-Alone Benching with 10-Wire Harness Assembly



Detail A - Privacy Screen Bracket Tyes

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.

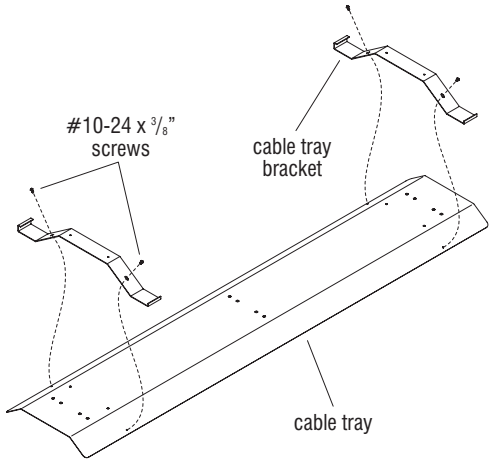


Figure 2

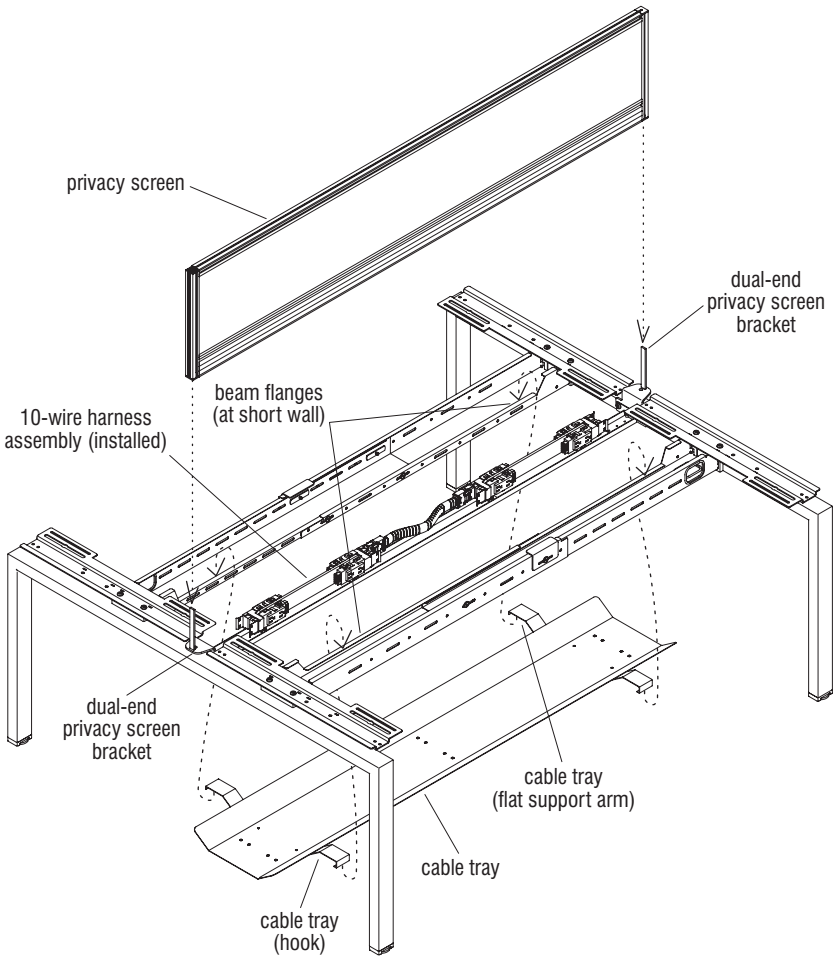


Figure 3 - Dual-Sided Stand-Alone Benching with 10-Wire Harness/Cable Tray & Privacy Screen

Dual-Sided Benching with 10-Wire Electrical - 10-Wire Harness Installation (cont.)

4. Move the 10-wire harness assembly into position under the installed wireway mounting brackets. Align the slot of the wire harness with the two mounting holes of a wireway mounting bracket at each side, then twist in two #10 x 3/8"self-tapping screws at each end. Center the wire harness between the legs and tighten the four screws to secure (Figure 1).

5. Place the cable tray upside down on a soft protective surface. Align the cable tray bracket holes with the holes on the underside of the cable tray and secure using two #10-24 x 3/8" screws per bracket (Figure 2).

6. Position the "cable tray" under the installed 10-wire harness assembly as illustrated. Lift the tray up evenly and rotate the cable tray bracket with hooks side up first so the arms and hooks position over the short-wall side of one beam. Then rotate the other side up and slide the unit back so the flat support arms can then also rest on the other beam's short-wall beam flanges also (Figure 3).

7. To gain access under the 10-wire harness, the cable tray can be slid back in reverse order of the instructions above, then swung down to hang by the support arms with hooks (Figure 3).

Dual-Sided Stand-Alone Benching - Privacy Screen Installation

1. If dual-end privacy screen brackets were installed to the inside of each end leg, a privacy screen is installed to the unit by positioning the privacy screen over the bayonets of the brackets, and evenly pressing the privacy screen down. Take care to keep the privacy screen level when sliding the unit down to avoid binding the screen as it moves down (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.

Dual-Sided Benching with 10-Wire Electrical - 10-Wire Top Power Infeed Installation

1. Carefully unpack Connection Zone electrical components, hardware and identify parts shown on Figures 1 & 4.

   Important: At locations where 10-wire top power infeed is specified and where privacy screens will install, the "dual-end privacy screen mounting bracket" must be positioned/installed against the leg first. Next, position the "top infeed support bracket", then finally the "wireway mounting bracket" (Figure 4 & Detail C). This process is outlined below, but for more details, please reference page 50 instructions and Figure 1.

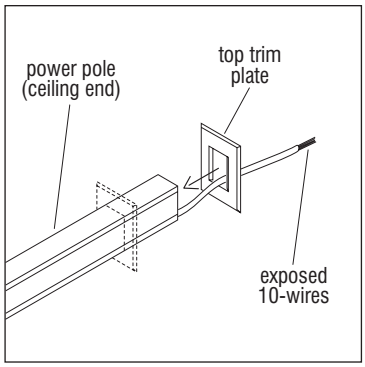
2. As illustrated below, align the mounting holes of a "wireway mounting bracket" (and dual-end privacy screen bracket, if required) with the mounting holes of the "top infeed support bracket". Secure the group of brackets to the inside of the leg using two M8 x 20mm hex-drive screws (Figure 4).

3. At 10-wire harness assembly end with "top infeed support bracket", route the 10-wire power infeed in under the leg, through the bracket and snap into wire harness assembly.

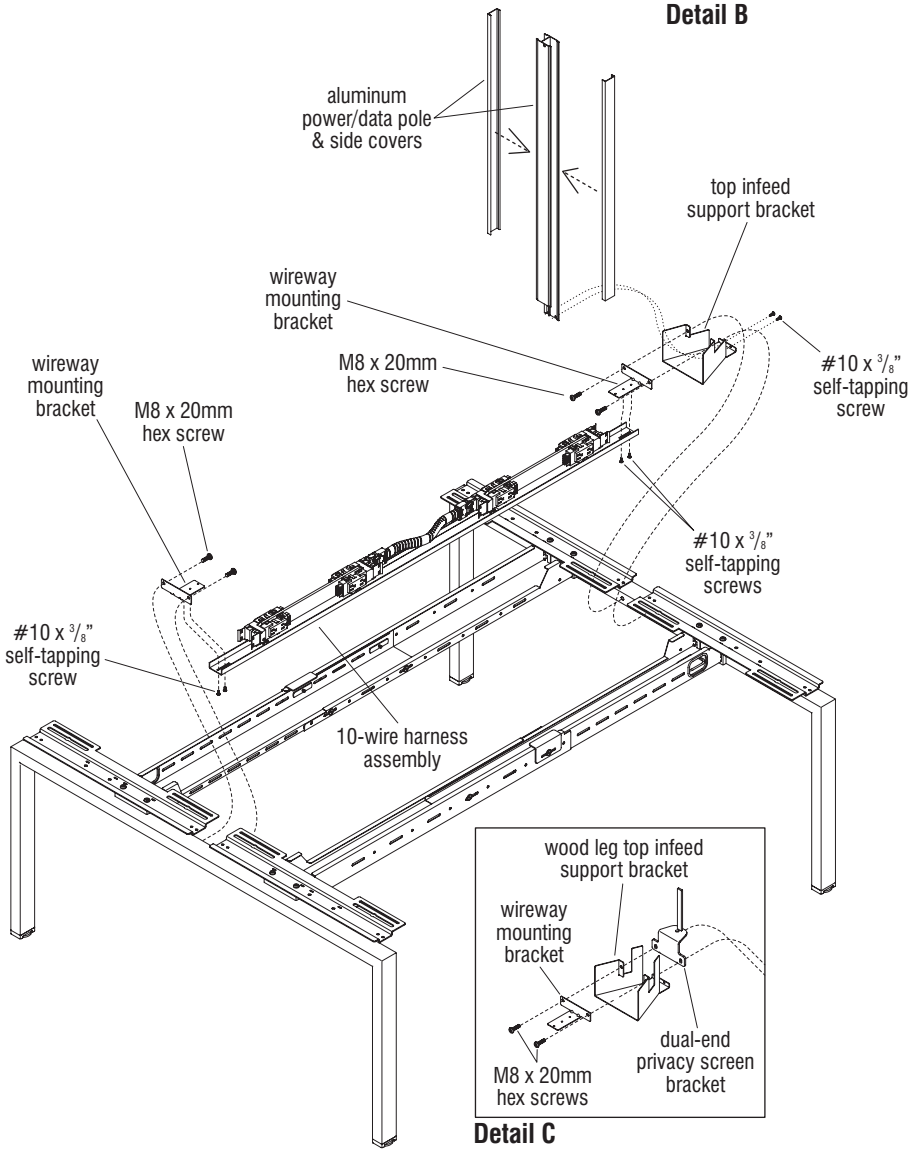
4. Route the flexible conduit of the 10-wire power infeed through the smaller opening in the pole (and/or data through the larger opening in the pole) and snap the end covers into place. At the ceiling end of the power pole, position a top trim plate as illustrated with finished side facing down and slide onto power pole (Detail B).

5. Make sure the benching unit to receive 10-wire power infeed is positioned at its final installation location and is level. Cut a $2^{3}/_{4}$" x $1^{5}/_{8}$" hole in the ceiling tile, plumb to the power pole mounting location on the top infeed support bracket. Position the power pole so the lower two mounting holes will mate with the top infeed support bracket holes and press the pole up into the opening in the ceiling tile, then rest the bottom end of the pole onto the top infeed support bracket, with the pole inside the bracket mounting flange. Align the mounting holes of the bracket and the pole and secure using two #10 x $^{3}/_{8}$" self-tapping screws. Finish off by sliding the top trim plate up into position at the ceiling (Figure 4 & Detail B).

6. When all benching units are assembled and joined together, and when all 10-wire harness assemblies have been joined, the exposed 10-wires (and data lines, if applicable) can be connected to the power source by a qualified electrician, following all codes at the building site.



Detail B



Detail C

Figure 4 - Dual-Sided Benching with 10-Wire Top Power Infeed

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.

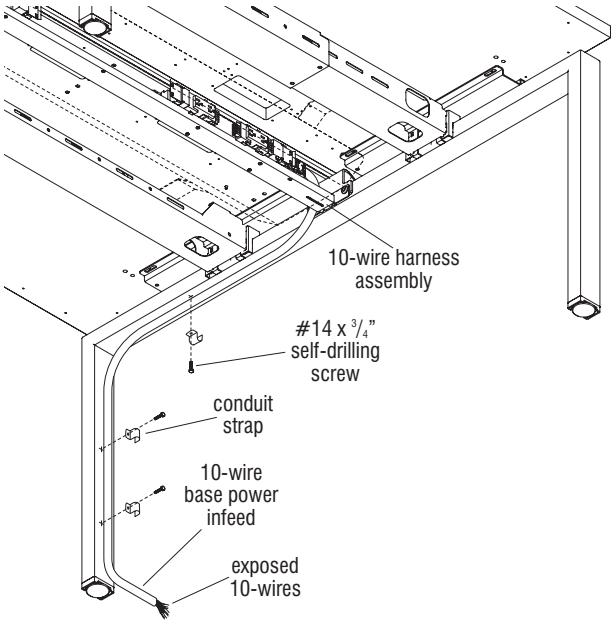


Figure 5 - Dual-Sided Benching - 10-Wire Base Power Infeed

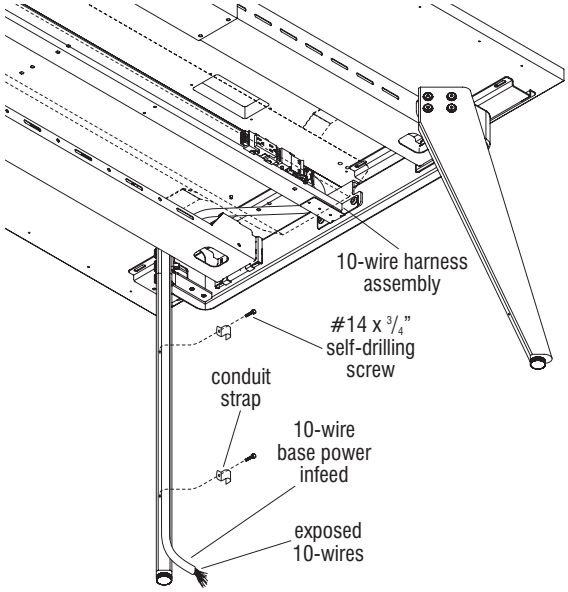


Figure 6 - Dual-Sided Wood Leg Benching - 10-Wire Base Power Infeed

Dual-Sided Benching with 10-Wire Electrical - 10-Wire Base Power Infeed Installation

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All local codes at the job site must be followed. 10-wire base power infeed can be installed on single-sided benches, dual-sided benches and café height benches. Only the dual-sided bench is shown in this procedure, but installation is the same for single-sided and café height benches.

1. Per the space-planning layout, determine the location for the 10-wire base power infeed to the benching system (Figures 5 & 6).

2. Plug the 10-wire infeed connector into the 10-wire rigid wireway (Figures 5 & 6).

   Note: A base wire enclosure unit or three conduit straps are required to secure the power infeed flexible conduit to the leg on dual-sided and café height benches. If conduit straps are to be used, proceed to step 3. If 10-wire will feed through a base wire enclosure, reference "Base Wire Enclosure Installation" instructions on page 91.

3. Route the flexible conduit along the leg and mark the pilot holes where the straps will be installed. It may help to position the clamps over the flexible conduit on the leg to assist in marking the pilot holes (Figures 5 & 6).

4. Position the flexible conduit out of the way. Use a hammer and punch to mark the location, then drill pilot holes, using a #4 drill bit in the leg at each conduit strap mounting location (Figures 5 & 6).

5. Position the straps over the flexible conduit and secure to the leg using #14 x 3/4" self-drilling screws. Be careful to not over tighten (Figures 5 & 6).

6. Route the rest of the flexible conduit to make connections (exposed 10-wires) to the power source.

   Note: Data cables can be installed through a power pole from the top of the table or from the bottom through a data beam. If data cables will be installed through a power pole from the top, proceed to page 52.

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.

Dual-Sided Benching with Privacy Screens Installation

Note: The process for installing privacy screens is the same for both the Dual-Sided Benching System (Steel) and the Dual-Sided Wood Leg Benching System. The instructions to follow demonstrate assembling privacy screens to a Dual-Sided Benching System (steel), your configuration may vary.

1. Carefully stage the modesty panels onto the floor along benching system per the space-planning layout. Take note of which privacy screens will be middle units and which will be installed to either the right- or left-hand end of the benching system row (Figure 1).

   Important: If a "cable riser" unit (page 90, Figures 7 & 8) will be installed into the benching system row, the "cable riser panel support hook" must be installed prior to any privacy screen brackets and/or worksurfaces. **See step 2 on this page if cable riser is required.**

2. If specified, position a cable riser panel support hook as illustrated, orienting it onto the top of the dual-sided intermediate leg, centered between the holes of the horizontal upright (Figure 1, page 55 & Figures 7 & 8, page 90).

   Important: Dual privacy screen brackets are different for use at "end" or "intermediate" legs (Detail A, page 50). Although the mounting holes in both styles are slotted, **it is important to always route the M8 x 20mm hex screws through the bottom holes in the slots**, for both fixed and sliding installations. Routing through the bottom holes lifts the bracket up to where it must be for future component installation. **If this is not done correctly, disassembly and re-assembly will be required.**

3. At locations where privacy screens will attach at the end of any benching run, Install a "dual-end privacy screen bracket" to the inside of each far right- and far left-hand end leg as illustrated using two M8 x 20mm hex-drive screws, routed through the bottom holes in the slots for proper mounted height (Figure 1).

   Important: At locations where top power infeed is specified and where privacy screens will install, the "dual-end privacy screen mounting bracket" must be positioned/installed against the leg first. Next, position the "top infeed support bracket", then finally the "wireway mounting bracket" (Detail C). This process is outlined below, but for more details, please reference page 50 instructions and Figure 1.

4. At each "dual-sided intermediate leg", where the two privacy screens will meet, install a "dual-intermediate privacy screen bracket" as illustrated using two M8 x 20mm hex-drive screws (Figure 1). Also as stated above, if a 10-wire harness assembly is to be installed to the benching unit at the location of the bracket, be sure to install a wireway mounting bracket over the privacy screen mounting bracket at this time (Figure 1, page 50).

   Note: "Dual-inline privacy screen brackets" will be specified if a 60" or longer dual worksurface unit is to have more than one privacy screen installed between them, such as when worksurface tops are separated by dividers into study carols. For this configuration, privacy screen top end caps and link/trim strips must be removed wherever privacy screens will join together. And, where a "dual-inline privacy screen bracket" will join under two modesty panels at a longer worksurface, the bottom end caps must also be removed to assemble screen bracket inserts (Figure 1).

5. At locations where "dual-inline privacy screen brackets" will join two privacy screens together, remove the bottom end caps of the adjoining privacy screens. Slide two "screen bracket inserts" into the slot at the underside of each privacy screen, then re-install each bottom end cap (Figure 1).

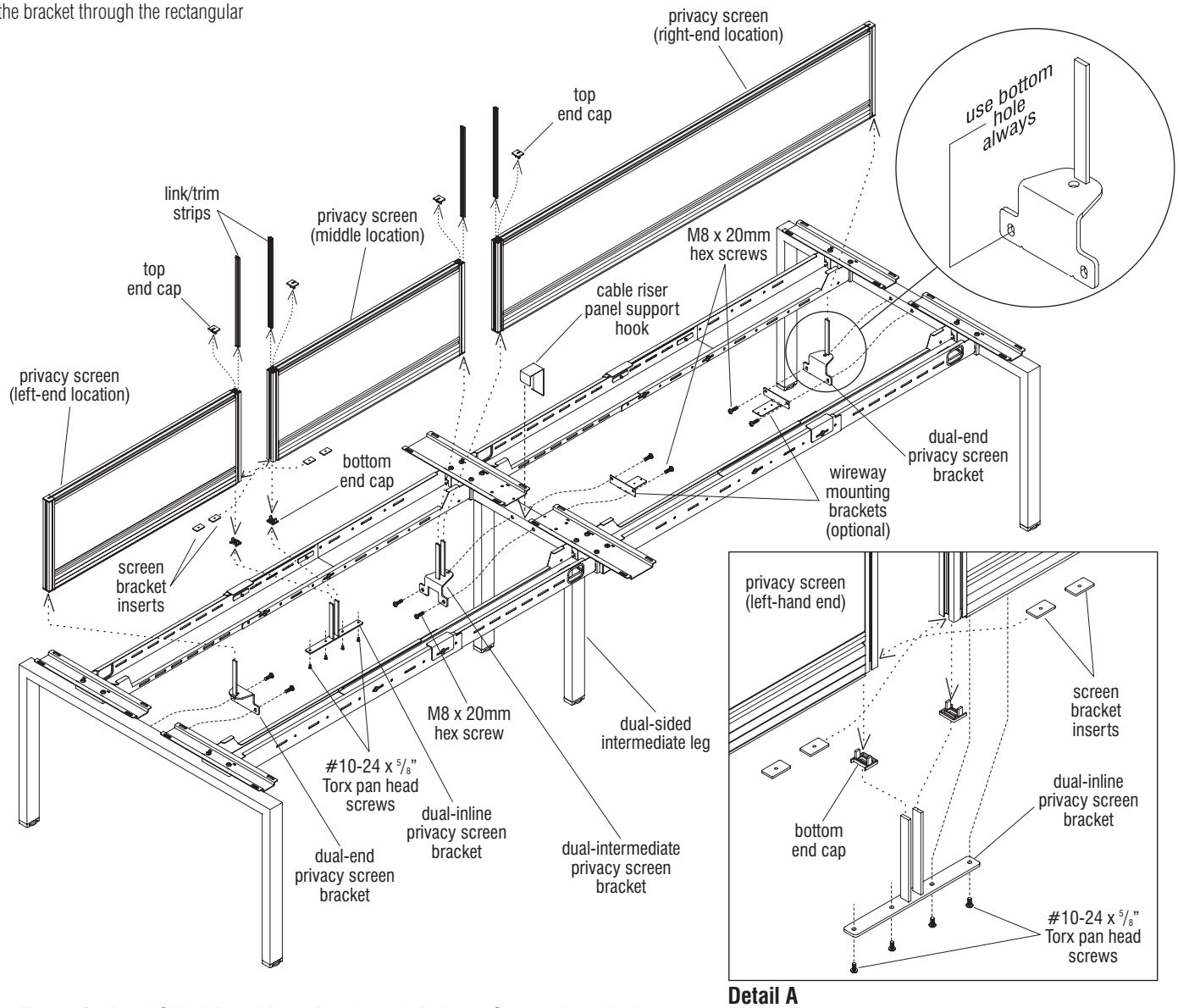
6. At the top of the two privacy screens which just received the screen bracket inserts, remove both top end caps, then each link/trim strip and set aside. One of the two strips will be re-used.

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.

Dual-Sided Benching with Privacy Screens Installation (cont.)

7. At the underside of each pair of privacy screens to receive a "dual-inline privacy screen bracket", position the bottom-side of the bracket under each and use it as an alignment tool, to slide the mounting holes of the screen bracket inserts into alignment with the mounting holes of the dual-inline privacy screen bracket. Turn the bracket around and press the two bayonets of the bracket through the rectangular openings in both bottom end caps, and into the vertical extrusions of both privacy screens being joined. Take care to keep privacy screens level and even when pressing in the bayonets. Finally, use two screws per privacy screen side and secure the bottom of the dual-inline privacy screen bracket to the screen bracket inserts using #10-24 x 5/8" Torx pan head screws as illustrated (Figure 1 & Detail A).
8. Where all other privacy screens join together over any "dual-sided end leg", or "dual-intermediate privacy screen bracket", **first remove top end caps, then the link/trim strips and set aside.** One of the two strips will be re-used (Figure 1).
9. Per the space-planning layout, set each right-, left-hand and middle location privacy screens onto the privacy screen brackets of the benching system as illustrated. The upward facing bayonets of the brackets insert into the extrusion of the privacy screen frame. Take care to keep privacy screen level while sliding onto the bayonets to avoid binding (Figure 1).



Detail A

Figure 1 - Dual-Sided Benching - Brackets & Privacy Screen Installation

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.

10. Where privacy screens are mounted on inline privacy screen brackets, take one previously removed link/trim strip and insert it down through both frame extrusions such that the strip joins both frames together. Discard the unused link/trim strips (Figure 2).

    Note: If dividers are specified, skip now to page 57 instructions, then onto page 58, Figure 4 prior to re-installing any top end caps.

11. If no dividers are to be installed, replace all top end caps to privacy screens as illustrated (Figure 2).

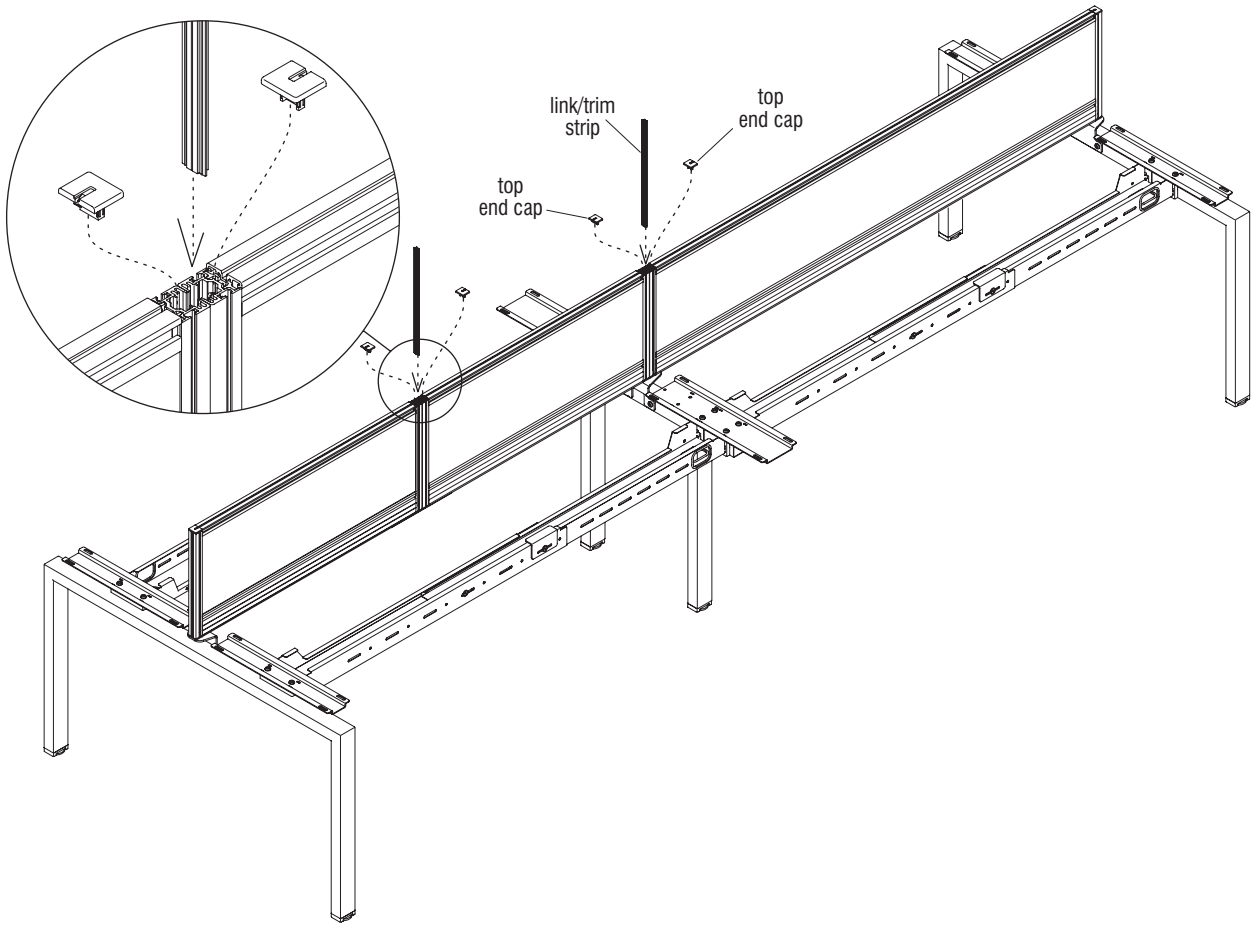


Figure 2 - Dual-Sided Benching - Brackets and Privacy Screen Installation

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.

Dual-Sided, Fixed, Multiple Top "Adder" Worksurfaces Installation

1. When worksurface privacy screens are installed and ready for worksurface installation (and if power components have been installed to legs, if required), position each worksurface over the installed worksurface support brackets. Align the pre-drilled holes in the worksurface with the slots in the worksurface brackets and twist in (two or four) #12 x 1" Phillips pan head screws per bracket only half-way (end worksurface brackets utilize only two screws per bracket) (Figure 3).
2. Push each worksurface back straight tight to the privacy screens to align the worksurface fronts in a uniform manner, then tighten all #12 x 1" Phillips pan head screws to secure (Figure 3).
3. At this time, tighten all of the M6 x 15mm Torx screws into the threaded locking plates in the center of the beams (Figure 3).
4. Finally, position the benching unit(s) to their desired location in the room. To adjust for uneven floor conditions, level the tables by turning the adjustable glides either in or out (Figure 3).

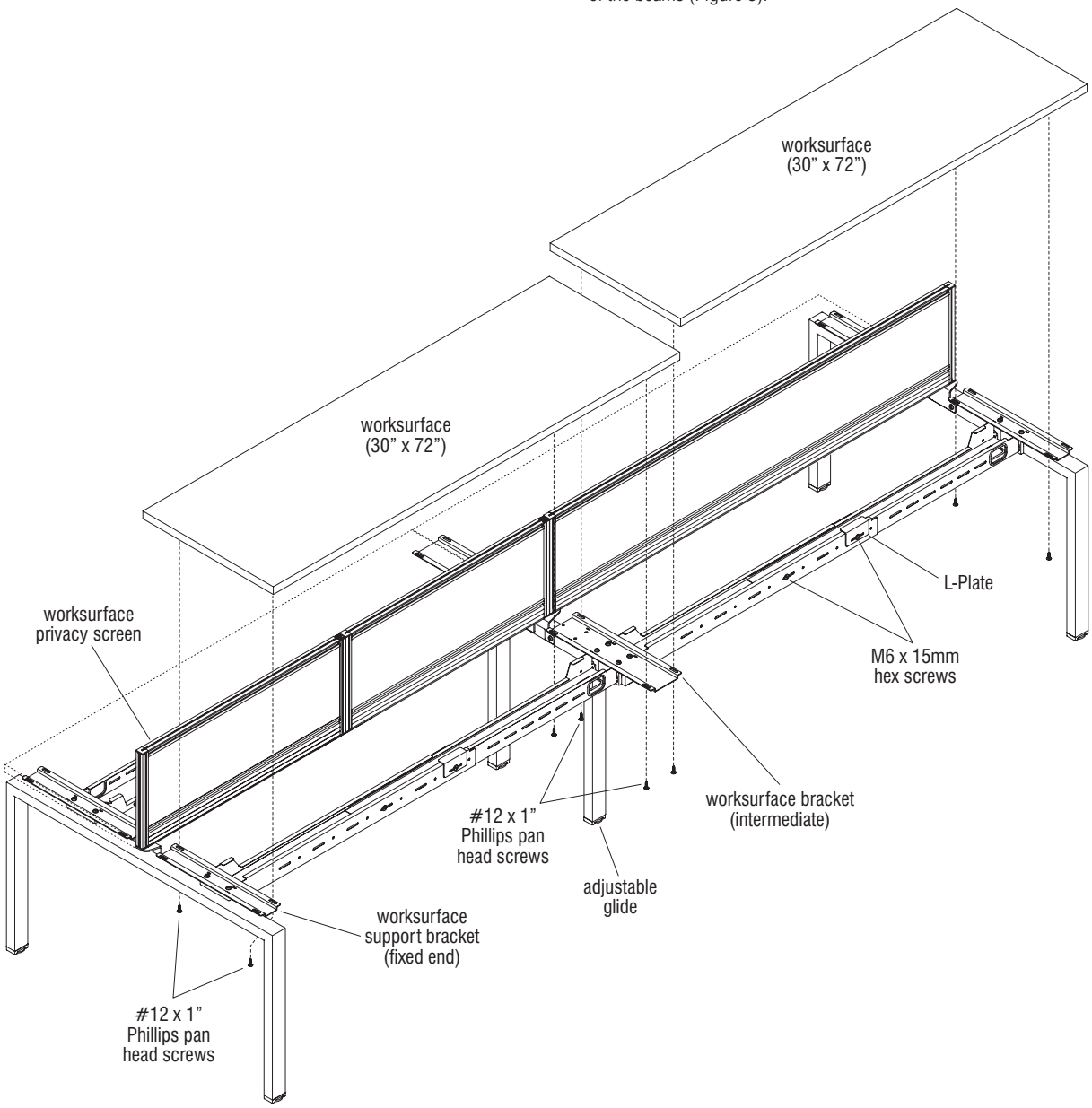


Figure 3 - Dual-Sided Benching - Worksurfaces Installation

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.

Dual-Sided Benching with Fixed Worksurfaces - Divider Screens Installation

Note: All divider screens are shipped with attachment screws in the vertical, rear member for attaching right- or left-end dividers to privacy screens. For middle divider screens only, the screws must be removed for back attachment to privacy screens. At the user side (front), middle divider screens require the use of a fixed middle divider bracket to the worksurface. Right-end divider screens use a fixed right-hand divider bracket and left-end divider screens use a fixed left-hand divider bracket at the user side (front) of the worksurface for attachment.

1. Prepare **left-end divider screen(s)** for installation by first making sure that the top end cap is removed from the privacy screen where the end divider will install. Next, locate a "divider spacer," position it into the horizontal T-slot at the underside of the divider screen near the back and twist the spacer 90° to lock it in position (Figure 4).
2. Locate and orient a "fixed left-hand divider bracket" as shown and slide it onto the front edge of the worksurface where the divider screen will install (Figure 4).
3. Position the left-end divider screen at the end such that the attachment screw heads at the back nest into the vertical slot in the privacy screen and slide the divider screen down such that the front also slides into the bayonet of the fixed left-hand divider bracket (Figure 4).
4. Align the end divider straight with the worksurface side and tighten the set screws at the underside of the fixed left-hand divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Finally, replace the top end cap removed in step one. Repeat process following steps 1 through 4 for right-end divider screen using a "Fixed right-hand divider bracket (Figure 4).

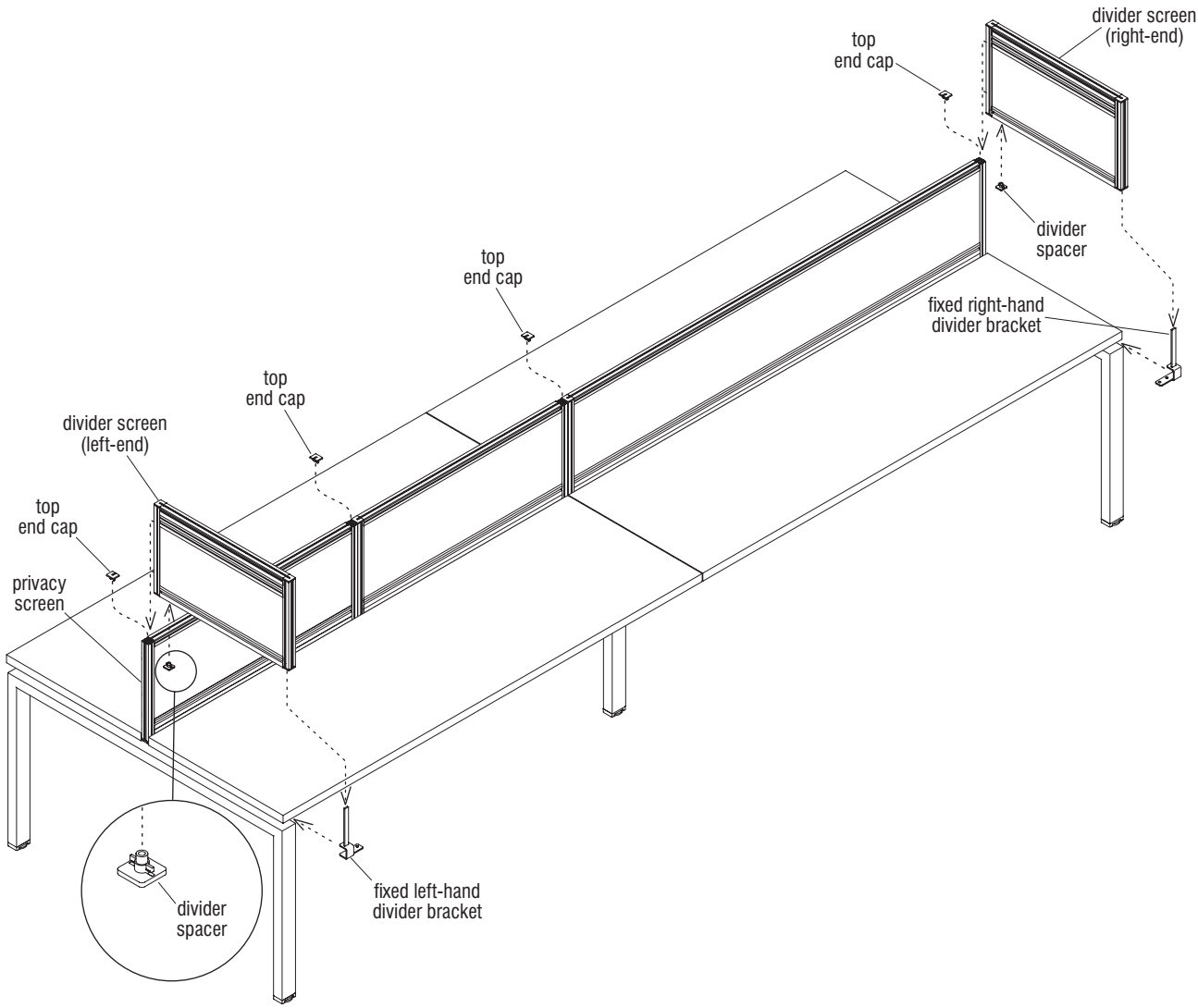


Figure 4 - Dual-Sided Benching, Fixed End Divider Screen Installation

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.

Dual-Sided Benching with Fixed Worksurfaces - Divider Screens Installation (cont.)

Note: All divider screens are shipped with attachment screws in the vertical, rear member. For middle dividers, the screws must be removed.

5. To install a **middle divider screen**, first remove the screws from the back of the screen. Next remove the top end cap from either the right or the left privacy screen where two privacy screens meet and the divider will install (left-side removal shown).

Important: The T-boss of the attachment clips are offset and must be oriented to center the divider properly when installed.

6. At each union of privacy screens to receive middle divider screens, correctly orient and slide the T-boss of two divider attachment clips down the T-slot (where top end cap was removed) and into position with one above the other as illustrated (Figure 5).

7. Locate and orient a "fixed middle divider bracket" as shown and slide the bayonet up into the hole at the bottom, front of the middle divider screen. Next, locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen near the back and twist the spacer 90° to lock it in position (Figure 5).

8. Set the middle divider screen in position on the workusrface(s) and slide back to "clip" the screen into the installed divider clips. Take care to assure the divider is straight and tighten the two set screws at the underside front of the fixed left-hand divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten.

9. Repeat the process for all middle dividers to be installed, then re-install all top end caps that were removed. Go back and adjust all divider spacers and divider attachment clips to be uniform along the run of benching (Figure 5).

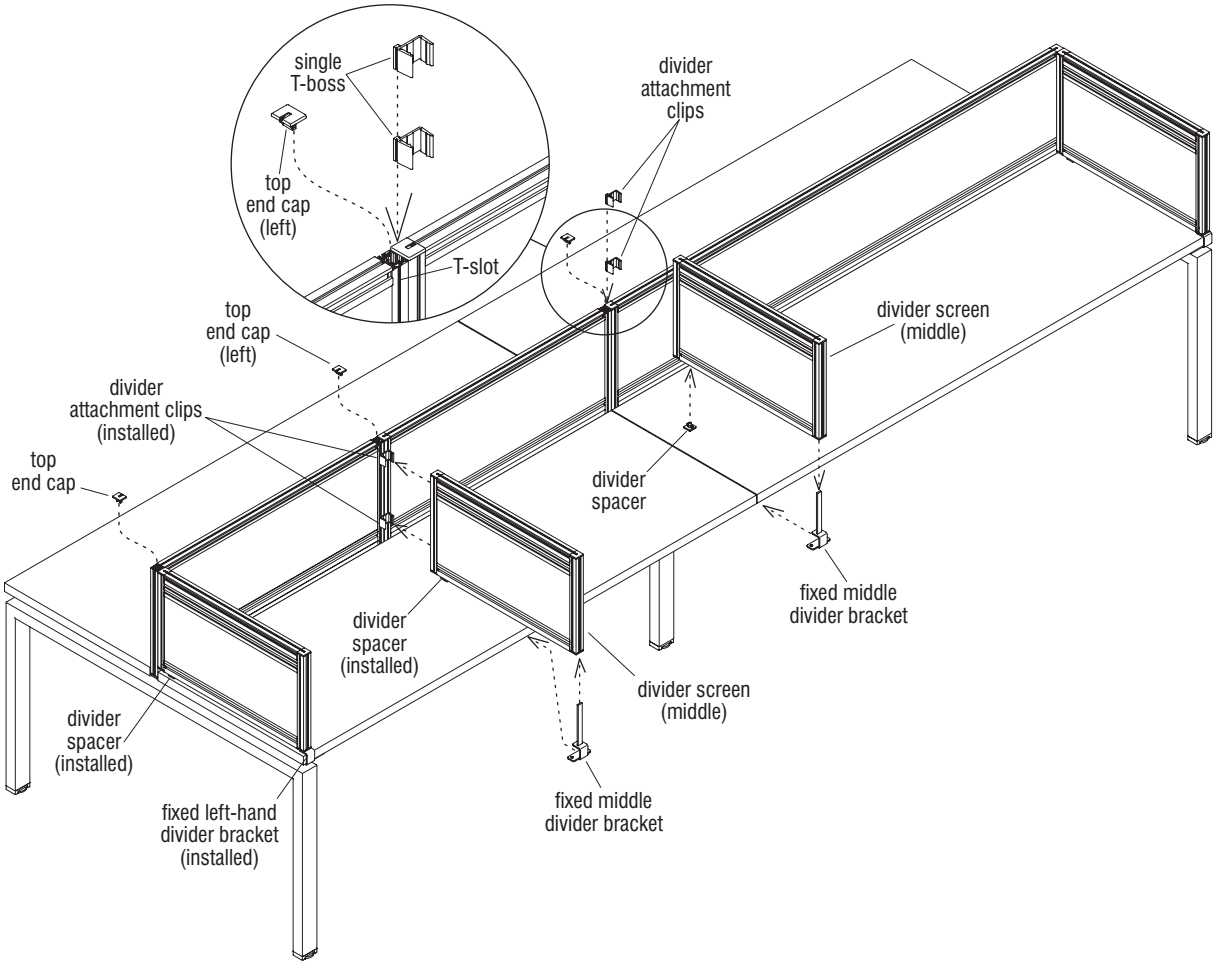


Figure 5 - Dual-Sided Benching - Center Divider Screen Installation

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.

Dual-Sided Benching - Sliding Worksurface Installation

1. When privacy screens are installed (if specified) and ready for worksurface installation (and/or if power components have been installed to legs, if required), sliding worksurfaces must be prepared for assembly to dual-sided benching frames.

2. Carefully turn worksurface upside down on a soft, protective surface. Locate the sliding-top inserts and #8 x 1½" wood screws in the hardware pack. Insert the four sliding-top inserts into the larger pre-drilled holes in the worksurface, then secure using the four wood screws (Figure 6).

   Note: A channel lock pliers may be required to hold the sliding-top insert from spinning while tightening the screw. Take care to not hold insert too tight with a pliers or over-tighten the screw because the insert may be damaged or split.

3. Carefully turn the worksurface right-side up and set it onto the benching leg with installed sliding worksurface brackets. Orient the worksurface so the four sliding-top inserts drop down through the round cut-outs in the slots of the sliding worksurface brackets. Slide the worksurface away from the user-side slightly, then twist in a hand-knob through the inner slot in the bracket at the underside of the worksurfaces illustrated (Detail B).

4. At the other end of the worksurface, install a hand-knob and repeat the steps above for all other worksurfaces to be installed (Figure 6 & Detail B).

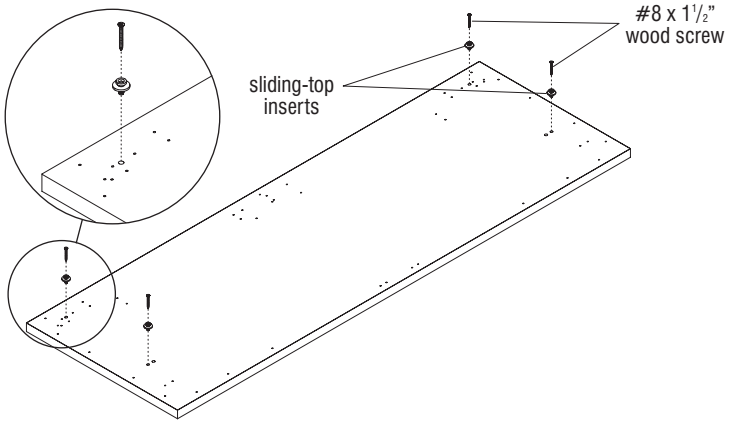
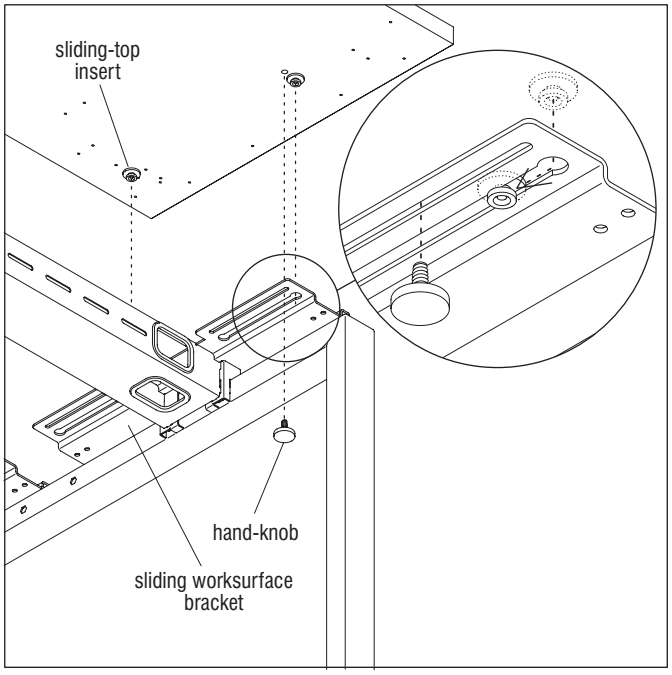


Figure 6 - Dual-Sided Benching - Sliding Worksurfaces Installation



Detail B - Dual-Sided Benching - Sliding Worksurfaces Installation

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.

Dual-Sided Benching with Sliding Worksurfaces - Divider Screens Installation

Note: All divider screens are shipped with attachment screws in the vertical, rear member for attaching right, or left "end dividers" to privacy screens. For middle divider screens, the screws must be removed. All left-end and middle divider screens attach at the front using "sliding left-hand divider brackets" and right-end divider screens use a "sliding right-hand divider bracket".

1. Prepare **left end divider screens(s)** for installation by first making sure that the top end cap is removed from the privacy screen where the end divider will install. Next, locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen **at least 6" from the back** and twist the spacer 90° to lock it in position (Figure 7).

2. Locate a "sliding left-hand divider bracket" and rotate it 90° out of line with the divider as shown and insert the front "T-tab" into the horizontal T-slot in the underside of the divider screen. Once the T-tab is engaged, rotate the sliding left divider bracket back 90° as illustrated to be in line under the divider and hold in place for the next step (Figure 7).

3. Position the divider screen at the end adjacent the privacy screen such that the attachment screw heads at the back of the screen nest into the vertical T-slot in the privacy screen. Slide the divider screen down while holding the sliding left-hand divider out to clear the front of the worksurface until the divider screen rests on the worksurface (Figure 7).

4. Align the end divider screen straight with the worksurface side, press the sliding divider bracket in to meet the front of the worksurface and tighten the set screws at the underside of the divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Finally, replace the top end cap removed in step one. Repeat process following steps 1 through 4 for right-end divider using a "sliding right-hand divider bracket (Figure 7).

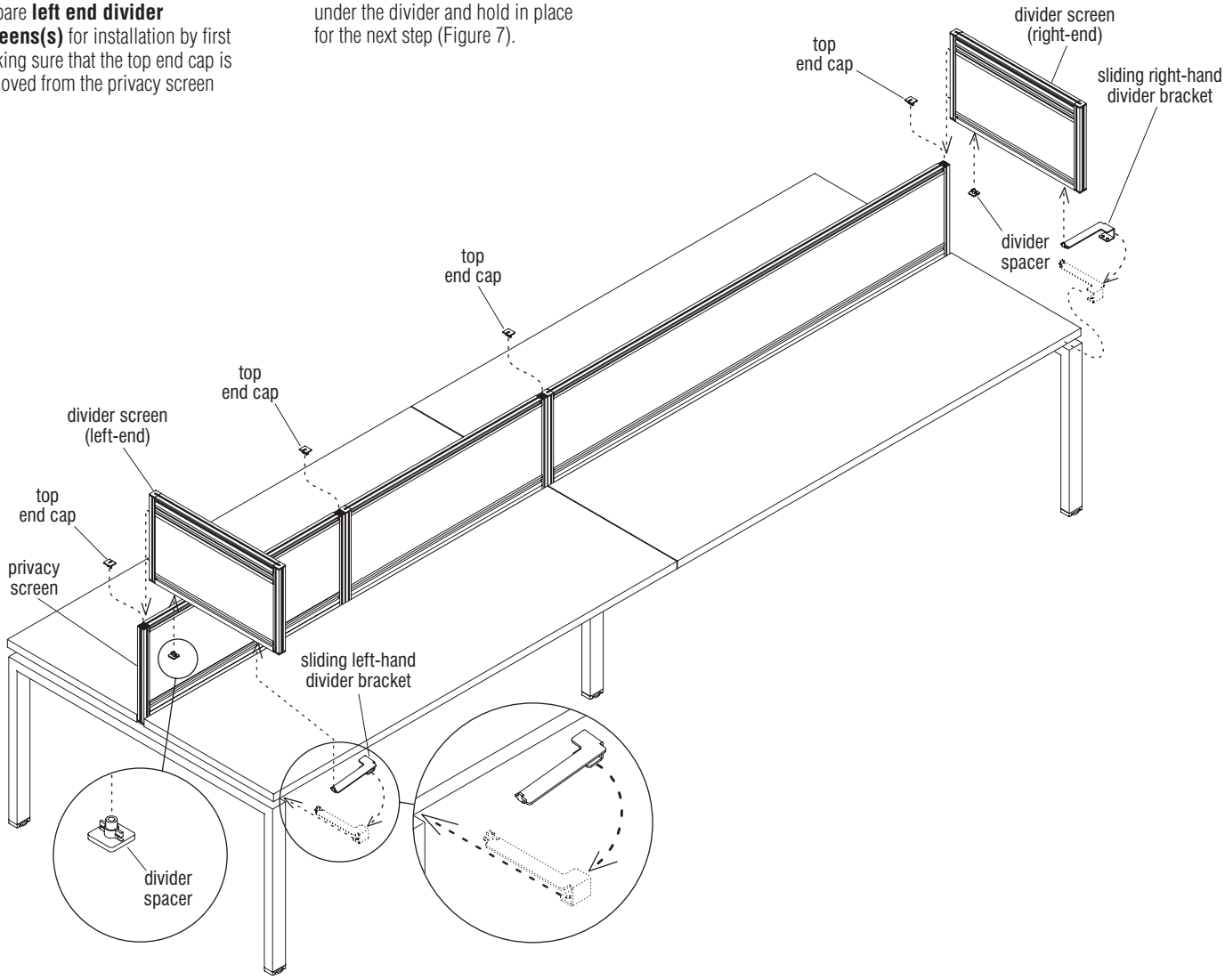


Figure 7 - Dual-Sided Benching with Sliding Worksurfaces - End Divider Screen Installation

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.

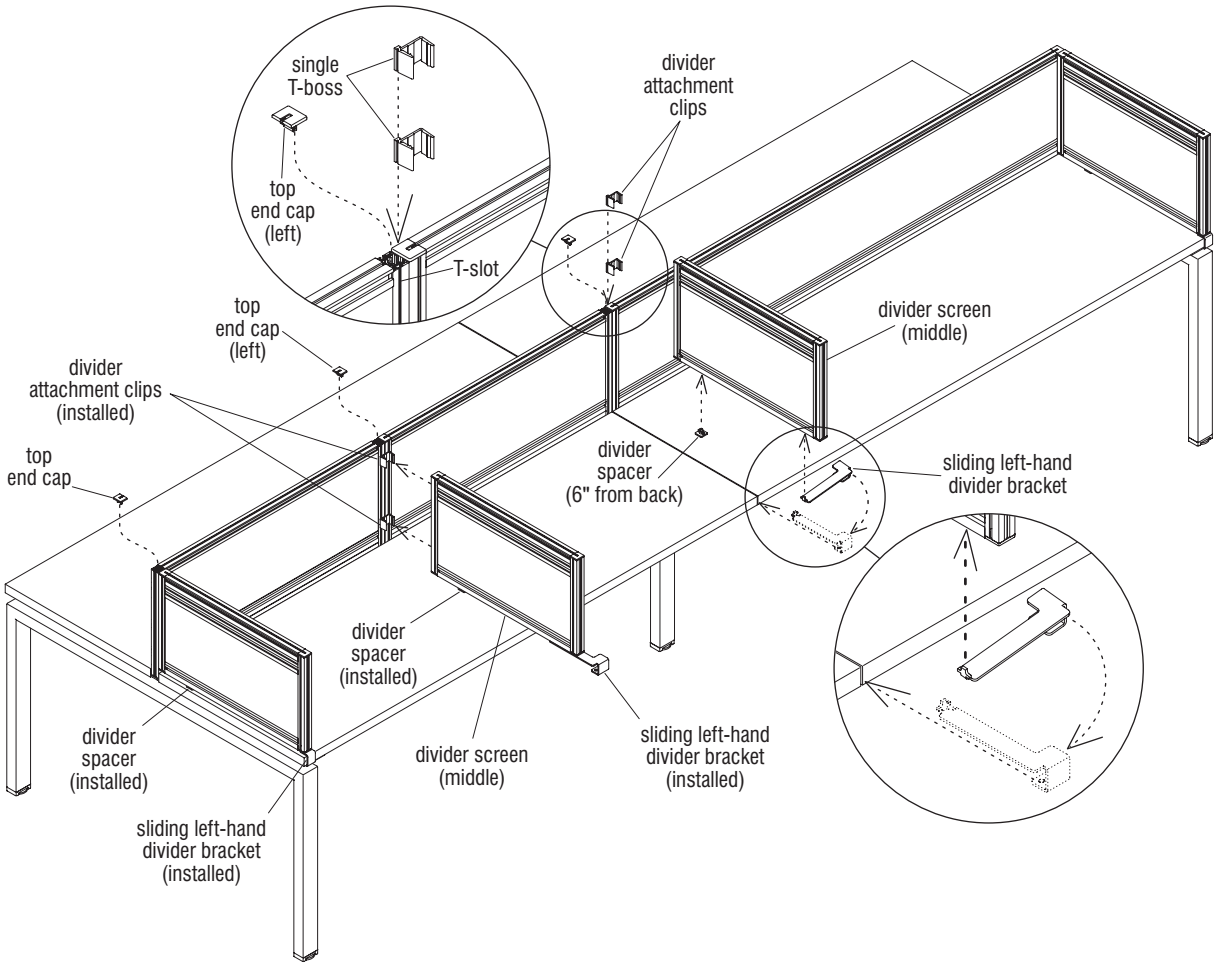


Figure 8 - Dual-Sided Benching with Sliding Worksurfaces - Middle Divider Screens Installation

Note: All divider screens are shipped with attachment screws in the vertical, rear member. For middle dividers, the screws must be removed.

5. To install a **middle divider screen**, first remove the screws from the back of the screen. Next remove the top end cap from either the right or the left privacy screen where two privacy screens meet and the divider will install (left-side removal shown).

   Important: T-boss divider attachment clips are used and can be oriented with the T-boss to the right or to the left of the clip as illustrated. The T-boss of the attachment clips are offset and must be oriented to center the divider screen properly when installed.

6. At each union of privacy screens to receive middle divider screen, correctly orient and slide the T-boss of two divider attachment clips down the T-slot (where top end cap was removed) and into position with one above the other as illustrated (Figure 8).

7. Locate a "sliding left-hand divider bracket" and rotate it 90° out of line with the divider as shown, then insert the front "T-tab" into the horizontal T-slot in the underside of the divider. Once the bracket's T-tab is engaged, rotate the divider bracket back 90° as illustrated to be in line under the divider and hold in place for the next step (Figure 8).

8. Locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen **at least 6" from the back** and twist the spacer 90° to lock it in position (Figure 8).

9. Set the middle divider screen in position on the workusrface(s) and slide back to "clip" the screen into the installed divider clips. Take care to assure the divider is straight and tighten the two set screws at the underside front of the sliding left-hand divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten (Figure 8).

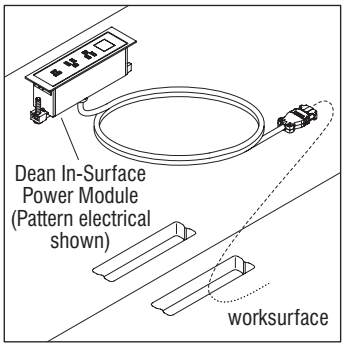
10. Repeat the process for all middle dividers to be installed, then re-install all top end caps that were removed. Go back and adjust all divider spacers and divider attachment clips to be uniform along the run of benching (Figure 8).

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

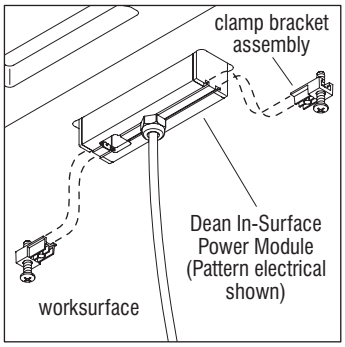
CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

CAUTION

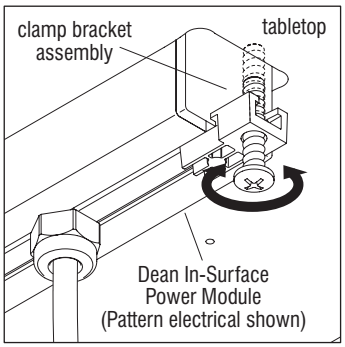
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



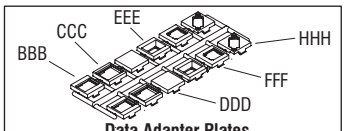
Detail A



Detail B - (underside shown)



Detail C - (underside view)



Data Adapter Plates

BBB	L-Com Keystone Modular, NETCONNECT and 110 Connect Series Modular Jack, Siemon ZMAX Style, Allen Tel Versa Tap Series, Leviton Quick Port Series, Belden REVConnect, HDMI Adapter Cable.
CCC	Hubbell Nextspeed Keystone Series, ADC Truenet Series
DDD	Blank (no coupler/jack)
EEE	Ortronics Tracjack Series
FFF	Panduit Mini-Com Series
HHH	Video Monitor Jack/DB-15

Detail D

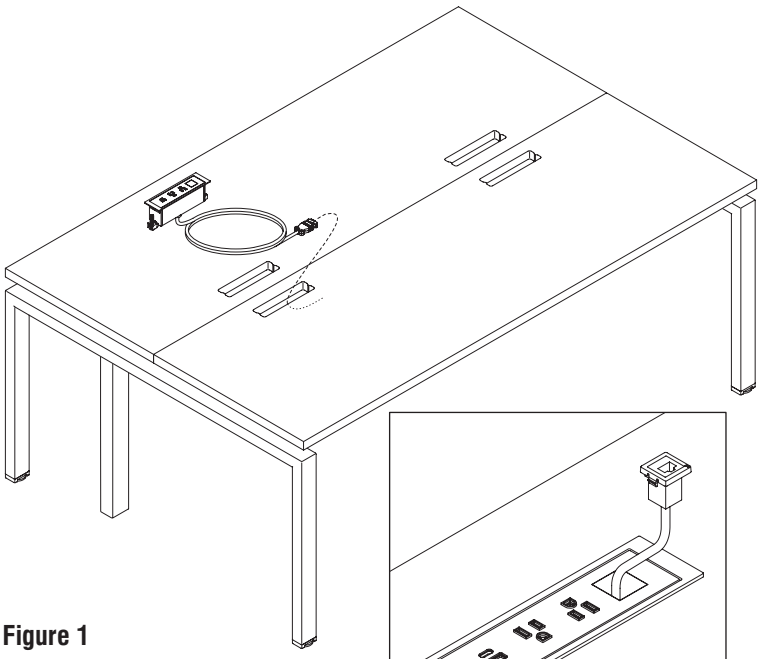
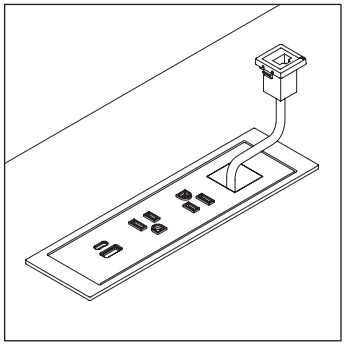


Figure 1



Detail E

Power Module Overview

Note: Power modules for Pattern can be installed on single-sided benches, dual-sided benches and café height benches. Only duel-sided bench units are shown in this section, but installation is the same for dual-sided and café height benches.

Note: If the Connection Zone Benching being assembled requires a power module, reference the following sections below based on the power module your table requires: Reference page 63 for Dean In-Surface power modules, page 64 for Dean Undersurface power modules, page 65 for Snap-In RPT modules or reference "Ashley Duo Under Power Module - Assembly Instructions" (KI-AI-000026), for Ashley Duo Under power modules, then return back to page 67 in this instruction. If the tables being assembled require grommets, proceed to "Grommet Overview" instructions on page 66.

Dual-Sided Benching - Dean® In-Surface Power Module Installation

Note: The Dean In-Surface power module is available with 3-prong plug or Pattern electrical system. Although the figures on this page illustrate the installation of a Dean In-Surface power module for Pattern, the instructions apply to all Dean In-Surface power modules. Your configuration may vary.

Note (Power Modules for Pattern): The Pattern electrical system allows up to ten distribution blocks or 50' of jumpers from the infeed distribution block, whichever comes first, connected to one standard 15-amp power cord.

1. Orient the Dean In-Surface power module as shown and route the connector end (or plug end) down through the cutout in the worksurface. Press the module down firmly into the cutout (Figure 1 & Detail A).

2. At the underside of the Dean In-Surface power module are two horizontal channels which are used to secure the clamp bracket assembly onto each end of the module. Rotate each clamp bracket so the screws are facing away from the power module as illustrated in Detail B. Insert the top clamp bracket into the two openings on each end of the power module, then slide until the top bracket is completely engaged with the channel (Detail B).

3. Using the screws on the clamp bracket assembly, tighten to secure the Dean-In-Surface power module to the tabletop (Detail C).

4. Select the appropriate data plate adapter for the phone/data jack to be used and carefully remove from injection molded tree (Detail D).

   Note: Jacks are sold by separate companies and are not supplied with the module.

5. Wire the jack appropriately to the data plate and snap the data plate assembly into the module grommet opening as shown (Detail E).

   Note: Depending on style of data jack used, it may be necessary to route the phone/data cord through the module grommet opening and data plate to install. Each installation may vary.

6. Proceed to "Electrical Overview" instructions on page 67.

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.

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

CAUTION: If Channels (Wire Troughs) are used they are not to be used for routing extension cords. Power supply cords are not to be routed across or through more than one complete unit/worksurface.

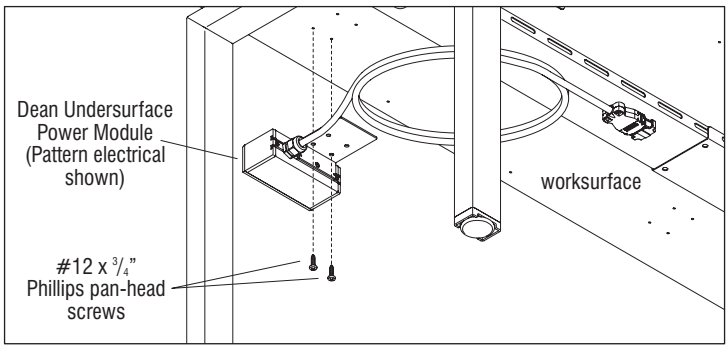
Dual-Sided Benching - Dean® Undersurface Power Module Installation

Note: The Dean Undersurface power module is available with 3-prong plug or Pattern electrical system. Although the figures on this page illustrate the installation of a Dean Undersurface power module for Pattern, the instructions apply to all Dean Undersurface power modules. Your configuration may vary.

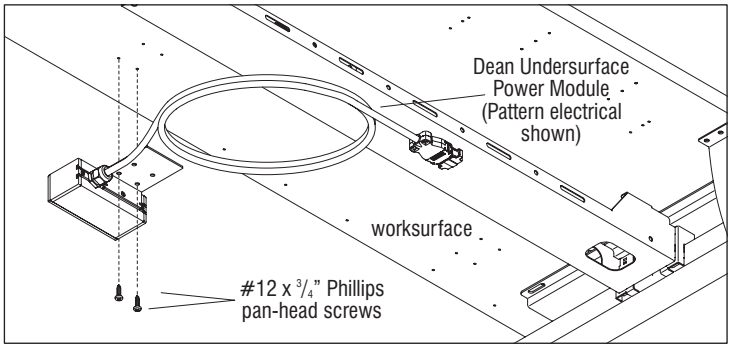
Note (Power Modules for Pattern): The Pattern electrical system allows up to ten distribution blocks or 50' of jumpers from the infeed distribution block, whichever comes first, connected to one standard 15-amp power cord.

Note: The underside of the worksurface contains four pre-drilled holes at each power module mounting location. However, only the two holes which position the power module face flush to the bottom edge of the worksurface will be used. Worksurfaces with different edge styles will utilize different holes to position the power module face flush to the bottom edge of the worksurface. The remaining two mounting holes on the power module mounting bracket will need to be pre-drilled.

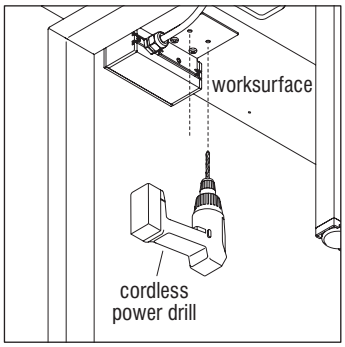
1. Position the front of the Dean Undersurface power module to be flush with the bottom edge of the worksurface. Align the two front mounting holes of the power module with one of the three sets of pre-drilled mounting hole locations underneath the front, user side of the worksurface as illustrated (Figure 2, Details F & G). Secure the power module to the worksurface using two #12 x 3/4" Phillips pan-head screws (Figure 2 & Details F & G).
2. Using the Dean Undersurface power module mounting bracket as a template, carefully bore a 3/32" diameter pilot hole at the center of the remaining two mounting hole locations using a cordless power drill. Take care to not drill too deep, piercing the worksurface (Detail H).
3. Secure the rear of the mounting bracket to the worksurface using the remaining two #12 x 3/4" Phillips pan-head screws. Take care to not over tighten (Detail I).
4. Proceed to "Electrical Overview" instructions on page 67.



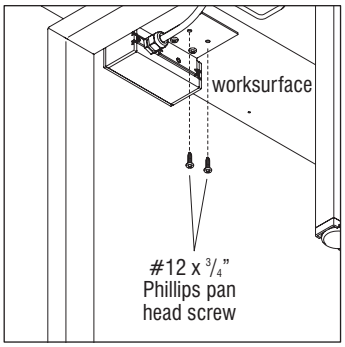
Detail F - Left or Right Aligned Dean Undersurface Mounting Holes - (underside view)



Detail G - Center Dean Undersurface Mounting Holes - (underside view)



Detail H - (underside shown)



Detail I - (underside shown)

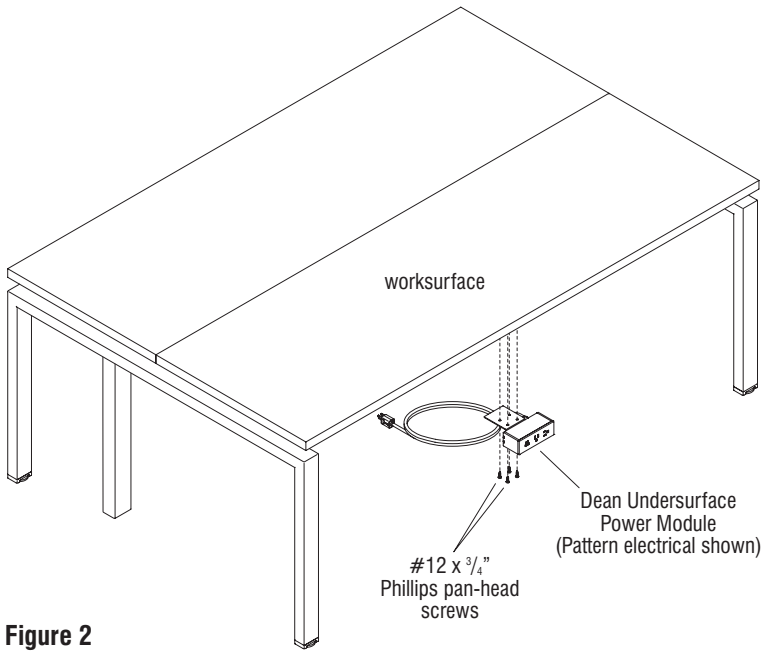
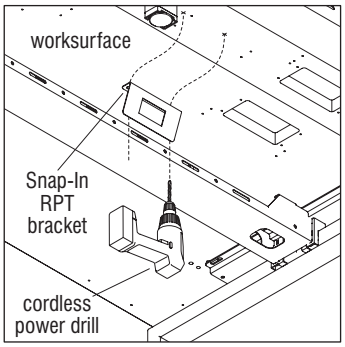


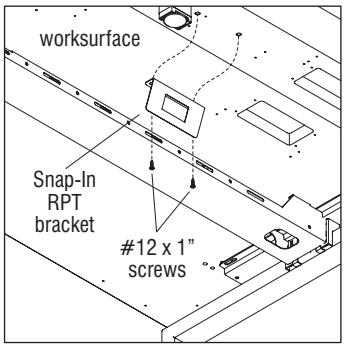
Figure 2

CAUTION

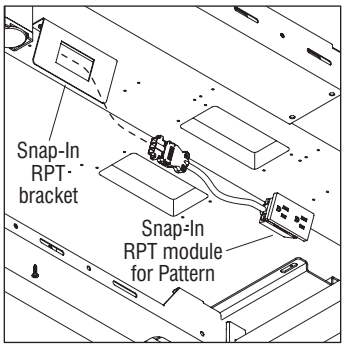
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



Detail J - (underside view)



Detail K - (underside view)



Detail L - (underside view)

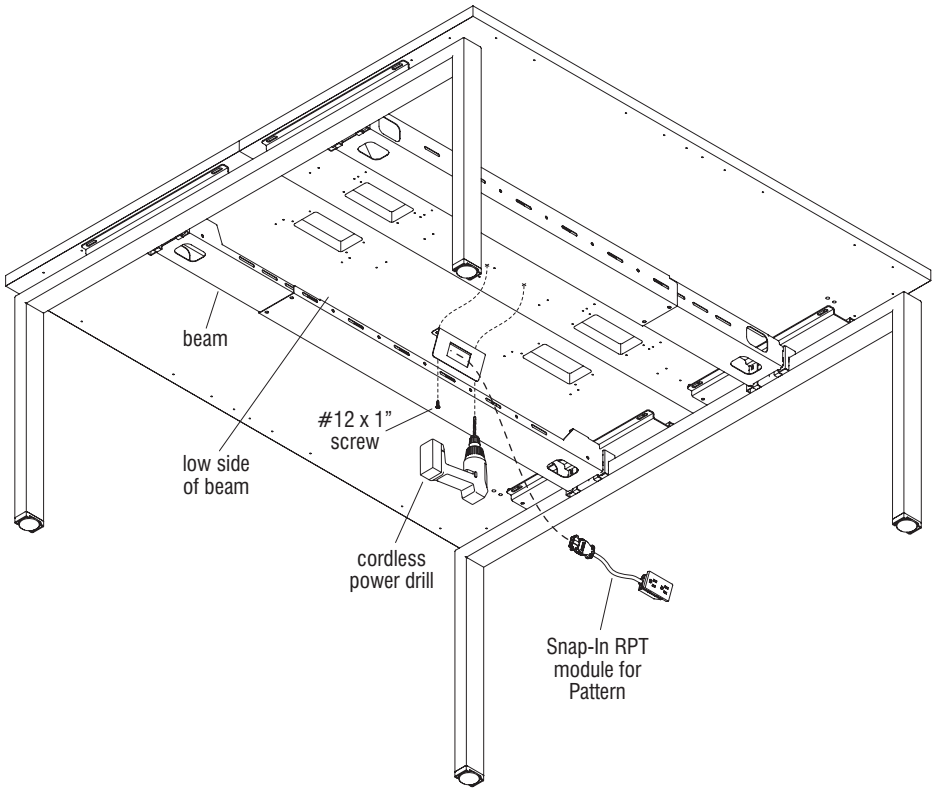


Figure 3 - Dual-Sided Benching - (underside view)

Dual-Sided Benching - Snap-In RPT Modules for Pattern Installation

Important: All mechanical frame components must be completed before any electrical connections are made.

1. Choose an appropriate installation location for the Snap-In RPT bracket (Detail M), at the rear of the table, near the low side of the beam and position straight as illustrated (Figure 4). Using the two mounting holes of the bracket as a template, mark drilling locations to the underside of the table and drill a $^{3}/_{32}$" diameter hole to no more than $^{3}/_{4}$" deep at each mounting location. Take care to not drill too deep as damage to the worksurface may occur (Figure 3 & Detail J).

2. Position the Snap-In RPT bracket over the pre-drilled holes and secure using two #12 x 1" screws (Detail K).

3. Route the connector end of the Snap-In RPT module in through the rectangular-shaped module mounting hole on the Snap-In RPT bracket as illustrated, then snap the module receptacles into the bracket (Figure 3 & Detail L).

4. Proceed to "Electrical Overview" instructions on page 67.

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.

Grommet Overview

Note: If the Connection Zone benching units being assembled require a Dean® or Nacre® grommet installed into any tabletop cutouts, proceed to "Dean & Nacre Grommet Installation" instructions below.

Dean & Nacre Grommet Installation

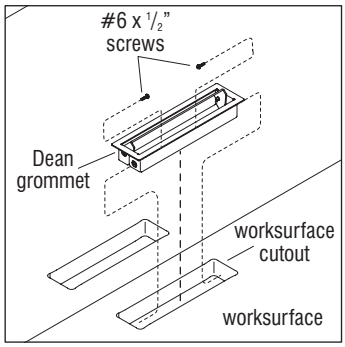
1. Position the Dean or Nacre grommets above the tabletop cutouts with the lid opening towards the user side (Figure 1 & Details A or B).

2. Push the grommets into each cutout, tapping lightly with a rubber mallet if required. Use caution to avoid scratching the grommet (Figure 1 & Details A or B).

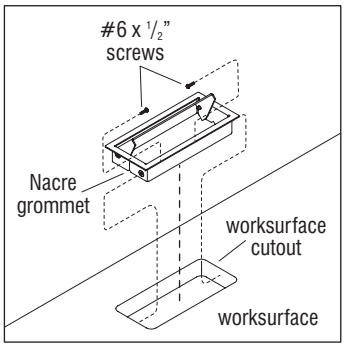
3. Secure the grommet to the tabletop by inserting two #6 x 1/2" screws through the holes on the inside of the module into the cut edge of the top (Details A or B).

4. Make sure the cover is closed on the grommet, then carefully rotate the tables to be upside down on a soft, protective surface.

5. Proceed to "Electrical Overview" instructions on page 67.



Detail A - Dean Grommet



Detail B - Nacre Grommet

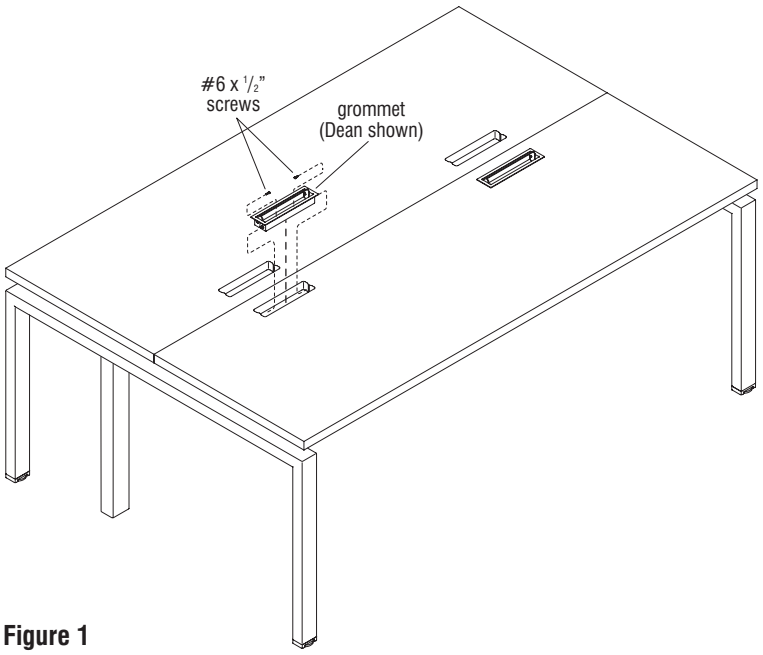
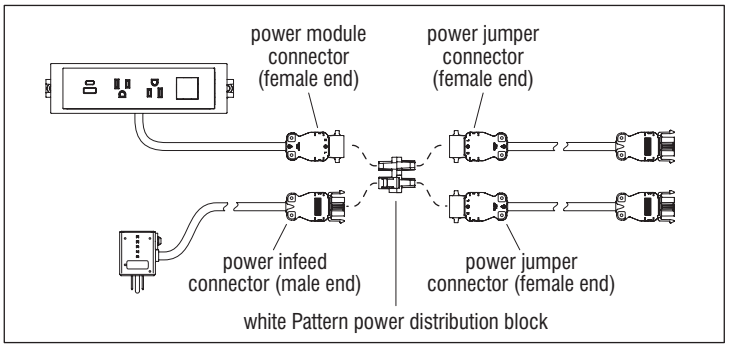


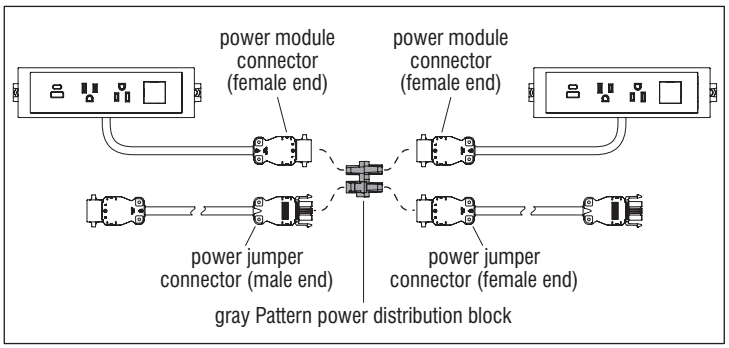
Figure 1

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.



Detail A - Connection Locations with White Power Distribution Block



Detail B - Connection Locations with Grey Power Distribution Block

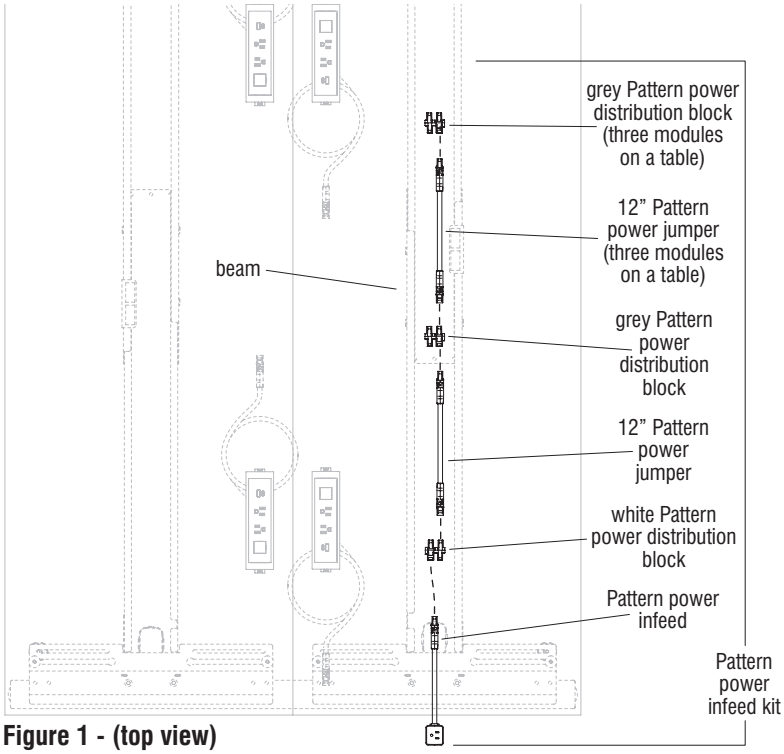


Figure 1 - (top view)

Electrical Overview

Note: If the Connection Zone benching units being assembled will contain an electrical system, reference the following sections below based on the electrical system your units require: Reference page 67 for Pattern electrical system, page 73 for Hardwired electrical system. If an electrical system with supporting privacy screens is required, reference page 76 for 10-wire or page 79 for hardwired.

Pattern Electrical System Installation

Note: The Pattern electrical system is ETL Listed, evaluated to safety standard UL 962A (USA) and CAN/CSA-C22.2 No. 308 (Canada). It allows up to ten power distribution blocks and up to 50' of power jumpers (in either direction of the power infeed), whichever comes first, can allow up to eighteen power modules depending on table width, and connects to one 15-amp power supply cord (power infeed). The power supply cord does not count toward the maximum 50' of power jumpers.

Note: The Pattern quick-release tool is a simple tool designed to help remove the power connector ends from the Pattern power distribution blocks. If reconfiguration of the Pattern electrical system is required, reference "Pattern Quick-Release Tool" instructions on page 93.

Pattern Power Infeed Kit Assembly

Important: Details A & B are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

1. For a run of tables, start Pattern electrical system assembly with the table that will contain the Pattern power infeed. Place the Pattern power infeed into the beam, routing the connector end toward the middle of the beam (Figure 1).

   Note: Pattern does not provide straps to secure cord to frame legs. The Pattern power infeed can hang freely or be housed in the optional base wire enclosure. See page 91 for "Base Wire Enclosure Installation".

2. Locate one white and one grey Pattern power distribution block. Plug the power infeed's male connector end into the white power distribution block first, as illustrated (Figure 1 & Detail A).

3. Next locate a 12" Pattern power jumper and plug the female connector end into the white power distribution block also. As illustrated in Detail A, either port opposite the power supply cord is fine (Figure 1 & Detail A).

4. Take a grey power Pattern distribution block in hand. Plug the previously installed (step 3) 12" Pattern power jumper's male end into the grey power distribution block as illustrated (Figure 1 & Detail B).

5. Steps 1 through 4 assemble a standard Pattern power infeed kit (Figure 1). If the table being assembled has the power infeed installed and it will receive three power modules, an additional 12" Pattern power jumper and grey Pattern power distribution block on the end will be required after the first grey distribution block (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.

Pattern Table-to-Table Power Jumper Kit Assembly

Important: Details A & B, on the previous page, are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

Note: The Pattern table-to-table power jumper kit is used to extend power to any additional table beyond the table with the Pattern power infeed kit.

1. Take a Pattern table-to-table power jumper in hand and plug the jumper's male connector end into a grey Pattern power distribution block as shown in Detail B on page 67 and Figure 2 this page. Orient the table-to-table power jumper's female connector end out of the side cutout on the beam and toward the previous table's side cutout on the beam, in the direction of the table with the Pattern table-to-table power jumper kit (Figure 2 & page 67, Detail B).

2. Step 1 above assembles the Pattern table-to-table power jumper kit (Figure 2). If the table being assembled will have three power modules, an additional 12" power jumper and grey power distribution block must be added after the Pattern table-to-table kit (Figure 2 & page 67, Detail B).

3. Repeat steps 1 & 2 to assemble table-to-table kits in the remaining beams.

4. If the Pattern power infeed is located in-between two tables, connect the closest Pattern table-to-table power jumper, not connected to the run of tables, to the open available socket on the white Pattern power distribution block (page 69, Figure 3 & page 67, Detail B).

5. If the table being assembled contains Snap-In modules for Pattern, proceed to "Cable Routing Guidelines - Tables with Snap-In modules for Pattern" instructions on page 70. If the table being assembled does not consist of Snap-In RPT modules but contains at least one power module, proceed to "Cable Routing Guidelines - Power Modules for Pattern" instructions on page 71.

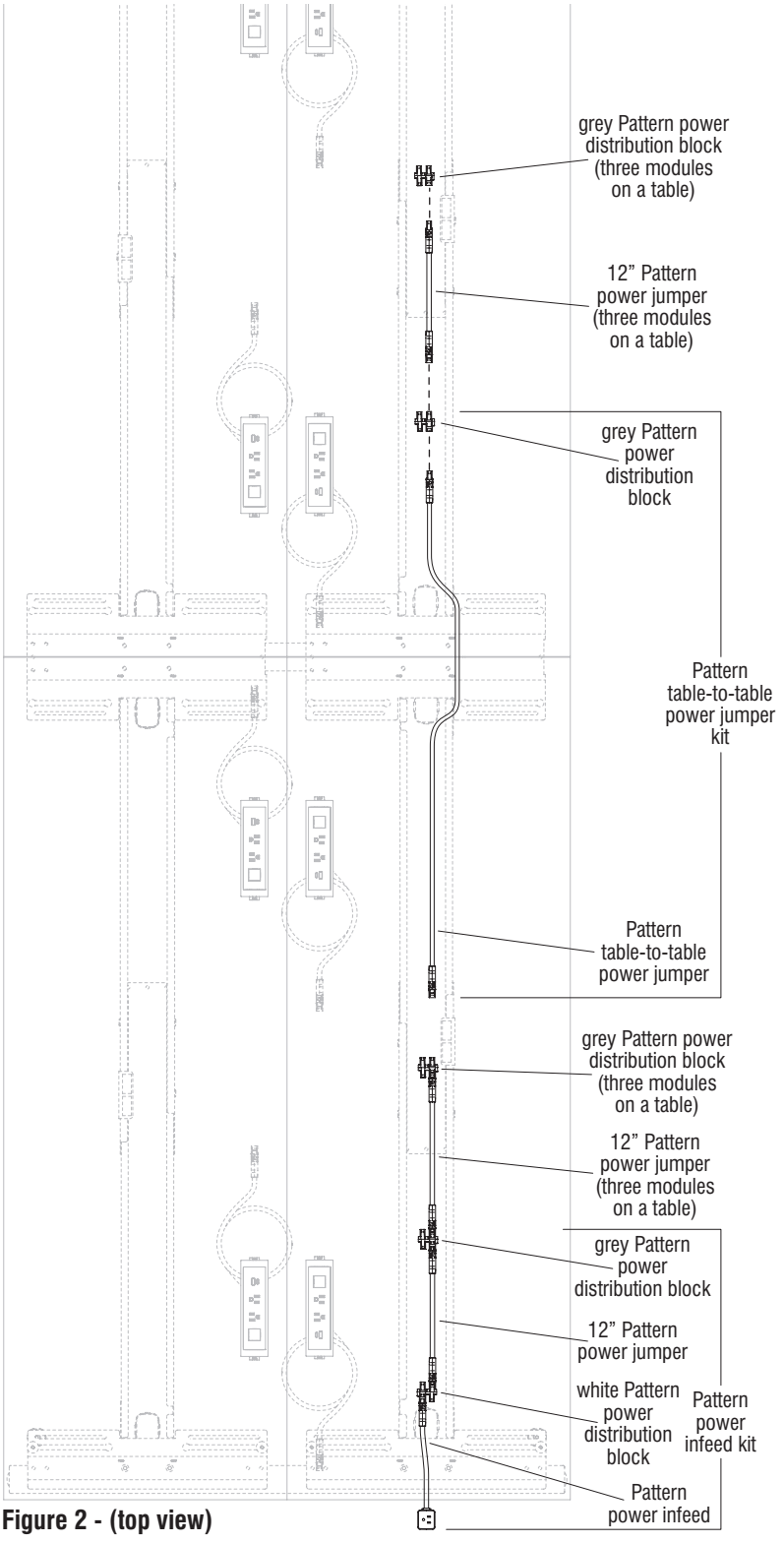


Figure 2 - (top view)

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.

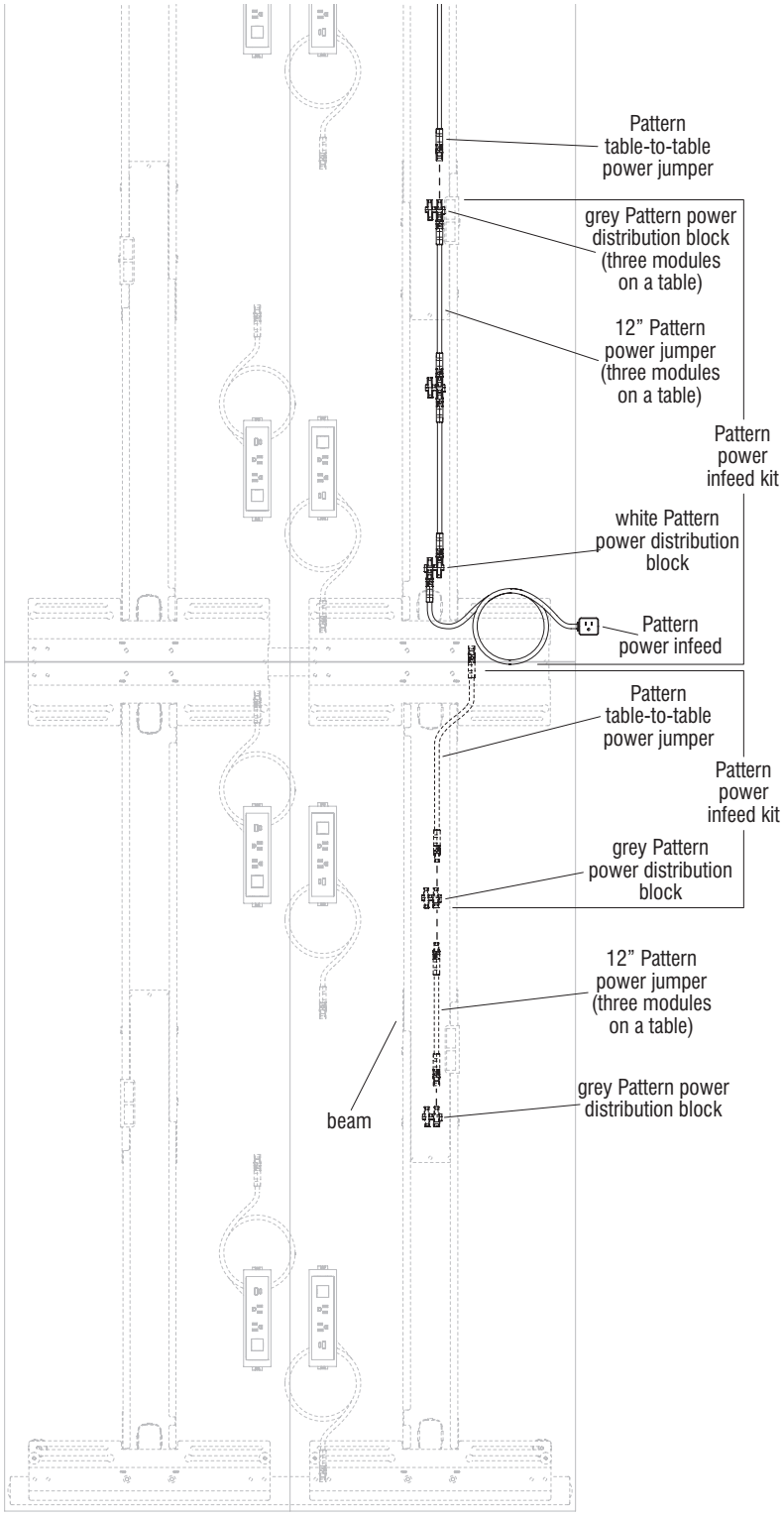


Figure 3 - (top view)

CAUTION

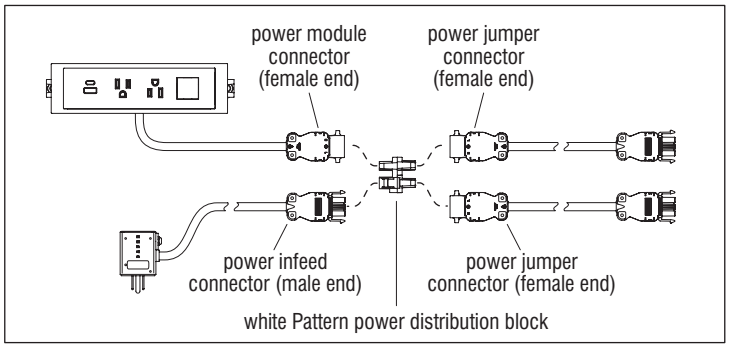
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Cable Routing Guidelines - Tables with Snap-In RPT Modules for Pattern

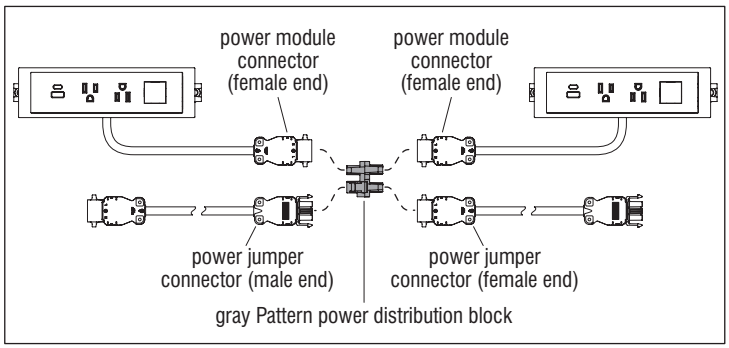
Important: Details C & D are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

1. Route the connector ends of the Snap-In modules to an available power distribution block on the Pattern electrical system inside the beams (Figure 4 & Details C & D).

2. If the tables being assembled require a power module in addition to the previously installed Snap-In RPT module, proceed to "Cable Routing Guidelines - Power Modules for Pattern" instructions on page 71. If the table being assembled does not require any additional power modules, proceed to "Connections with Source Power - Pattern Electrical System" instructions on page 72.



Detail C - Connection Locations with White Power Distribution Block



Detail D - Connection Locations with Grey Power Distribution Block

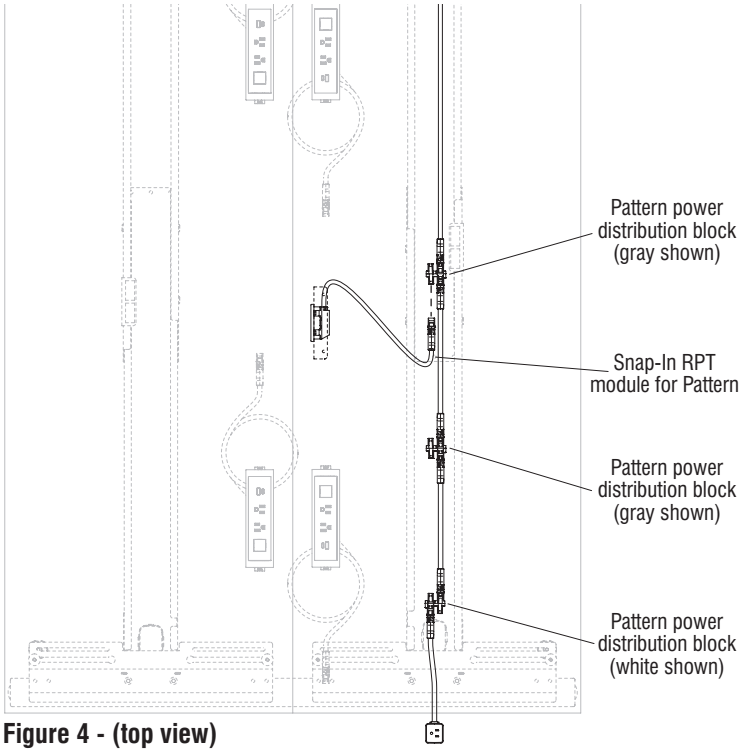
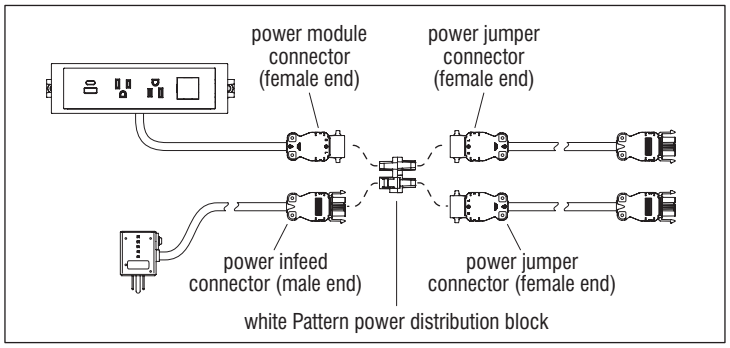


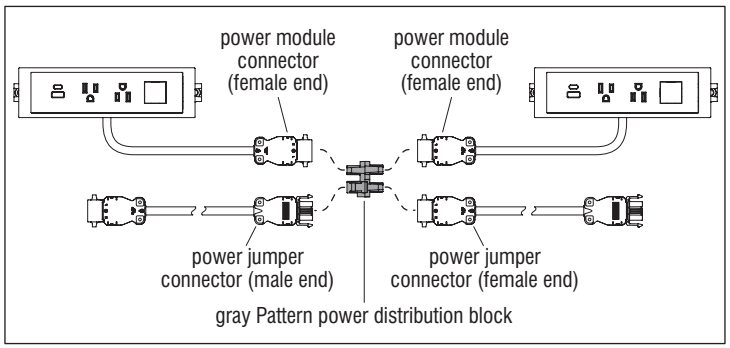
Figure 4 - (top view)

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 E - Connection Locations with White Power Distribution Block



Detail F - Connection Locations with Grey Power Distribution Block

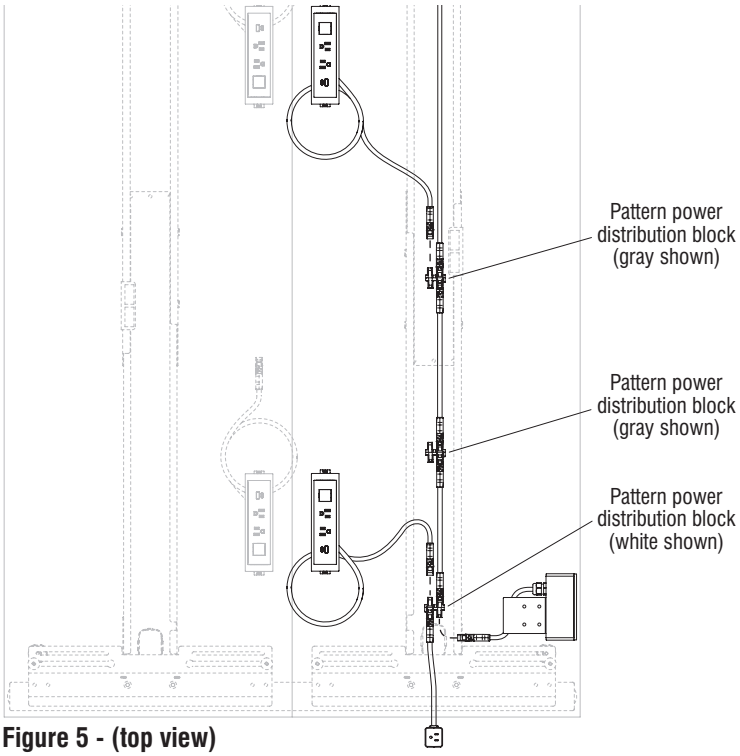


Figure 5 - (top view)

Cable Routing Guidelines - Power Modules for Pattern

Important: Details E & F are provided as a visual guide to illustrate the different white and grey power distribution blocks, and which male/female connector ends plug into each port correctly. If connector ends are switched around and plugged into a block's ports incorrectly, disassembly and reassembly will be required.

1. If the table being assembled contains at least one power module for Pattern, route the connector end of each module toward an available power distribution block on the Pattern electrical system inside the wire trough. Repeat step 1 to route the remaining power modules from the other tables to an available power distribution block (Figure 5 & Details E & F).

2. Proceed to "Connections with Source Power - Pattern Electrical System" instructions on page 72.

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.

GROUNDING INSTRUCTIONS

This product is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug illustrated in Detail G. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product.

Connections to Power Source - Pattern Electrical System

Warning: Never attach more than one power infeed to a chain of devices. Always check to be certain that the system is not already powered from another source before attaching an infeed.

1. Snap the Pattern table-to-table jumper ends into each table's Pattern distribution block (Figure 6).
2. Plug the power infeed connector end into an appropriate location in the Pattern system only after all other components are installed. Plug into a source power outlet. Plug an electrical device into a power module on the Pattern electrical system to verify power. If there is no power, verify that there are no more than ten power distribution blocks used on the system, and that the total length of the system and all interconnecting cables (exclusive of the power infeed unit) does not exceed 50 feet, or 600 inches.
3. Once the connection with source power has been identified and corrected, press the reset button on the 3-prong plug end of the Pattern power infeed.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical furnishing, basic precautions should always be followed, including the following:

Read all instructions before using (this furnishing).

DANGER: To reduce the risk of electric shock:

1. Always unplug this furnishing from the outlet before cleaning.

WARNING: To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Unplug from outlet before putting on or taking parts off parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Do not use outdoors.
5. **WARNING:** Risk of Electric Shock-Connect this furnishing to a properly grounded outlet only. See Grounding Instructions.

Electrical Rating: 120V 12 A

WARNING: Risk of Injury - Maximum Load 4.7 lbs. per inch width.

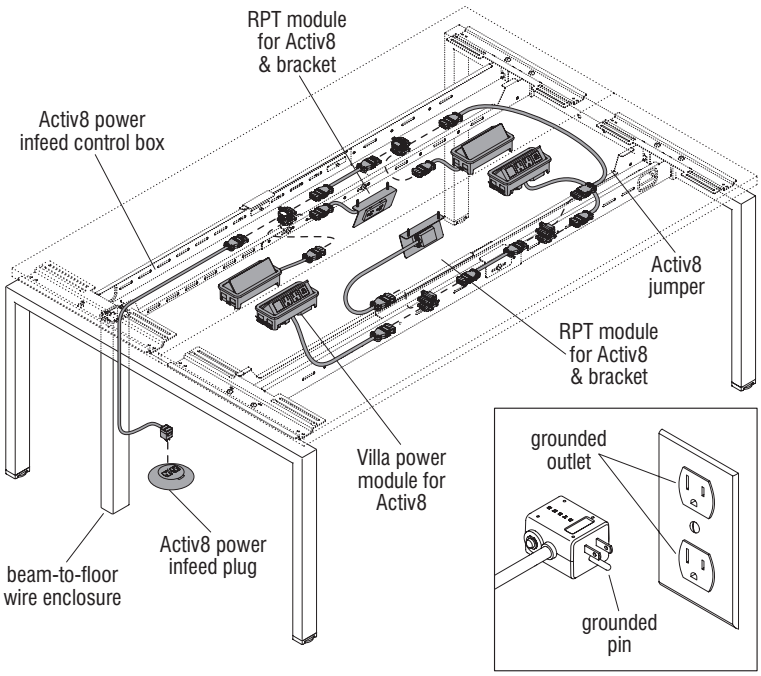


Figure 6

Detail G

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

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.

Dual-Sided Benching with Hardwired Electrical

1. Per the space-planning layout, reference all appropriate "Dual-Sided Benching General Assembly" instructions, pages 44 through 47 to assemble legs, beams and worksurface brackets.

   Note: The process for installing hardwired electrical is the same for both the Dual-Sided Benching System (Steel) and the Dual-Sided Wood Leg Benching System. The instructions to follow demonstrate assembling hardwired electrical to a Dual-Sided Benching System (steel), your configuration may vary.

   Note: The "dual-sided junction box mounting bracket" (shown this page, Figure 1) is different than the 10-wire power "wireway mounting bracket" (for wire harness assembly shown on page 50, Figure 1), but it installs following the same steps and guidelines.

2. Reference page 50 through 52 and page 54 through 55 instructions to properly install the "top infeed support bracket" (shown on page 52, Figure 4 - not shown on this page), any required privacy screen brackets, as well as the "dual-sided junction box mounting bracket" and "cable riser panel support hook" (if required), shown on this page (Figure 1).

3. Prior to installing any hardwire junction box components, install tabletops to only one side of the dual-sided benching assembly. To install fixed dual-sided worksurfaces, reference the appropriate steps on page 57. To install a row of sliding dual-sided worksurfaces, reference the appropriate steps on page 60.

   Note: It is recommended to assemble hardwire electrical components into hardwire junction boxes while boxes are sitting on top of the specific worksurfaces which they will install under later. Take care to place a protective cover on the worksurfaces to protect the tops from damage.

4. Place hardwire junction boxes onto the worksurfaces and stage boxes in the order and location specified by the space-planning layout. Remove the junction box covers and set aside (Figure 1).

5. Follow all state and local codes at the job site and install wiring to hardwire junction boxes per the space-planning layout. The boxes are joined together by "pass-through conduit" which must have a 5-6" space between them (step 8 below). Be sure to add no less than 1" extra in conduit length (to be 6") between them. The extra 1+" is added to allow for the conduit to drape up and over the intermediate leg top when the boxes are installed to the junction box mounting brackets (Figure 1).

6. Different receptacles (customer supplied) will wire differently.

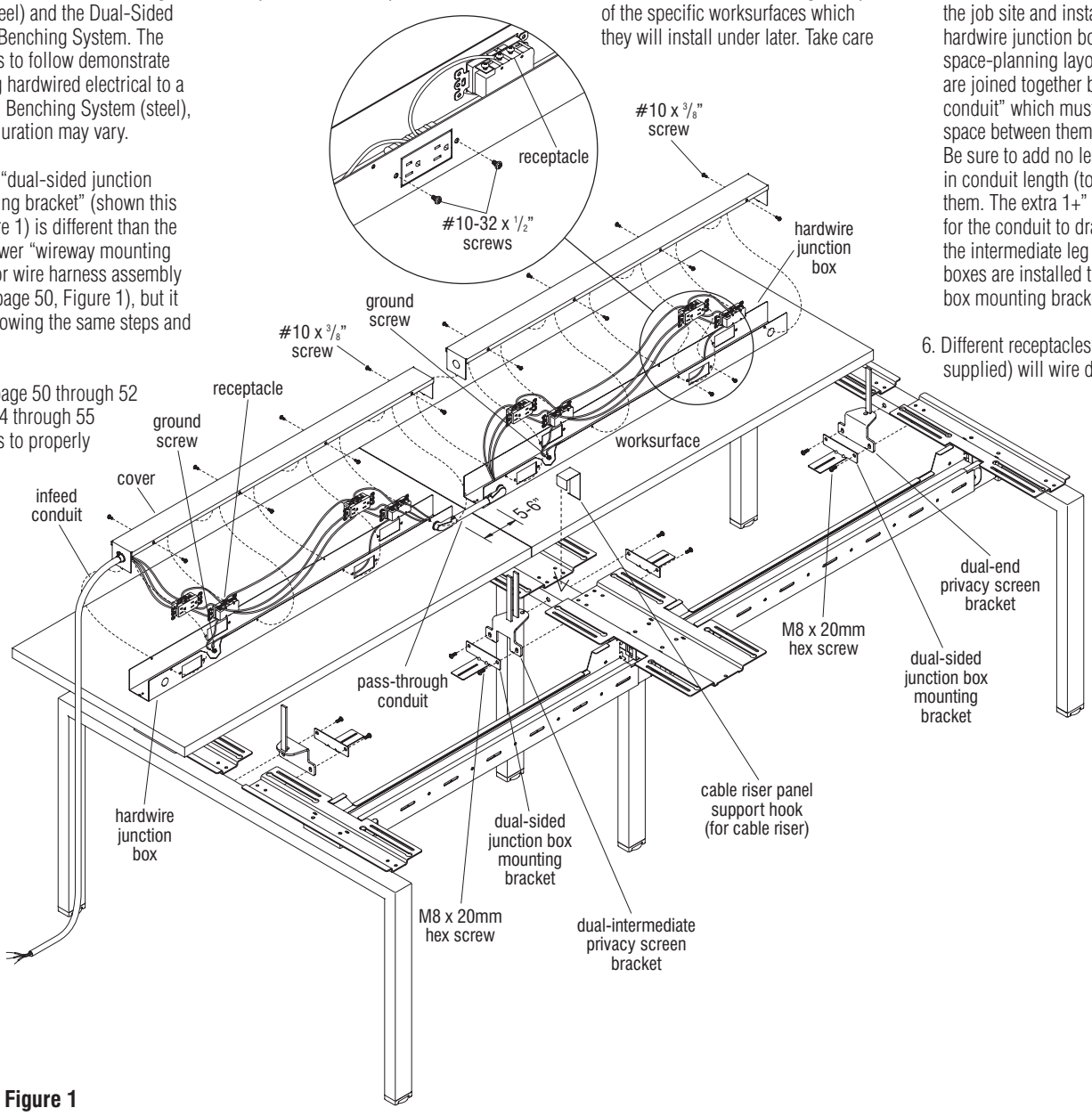


Figure 1

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.

Note: Depending on the type of receptacle used, determine if the individual wires will attach to the receptacle before or after they are mounted to the specified locations in the hardwire junction boxes. To mount receptacles to the box, position receptacles inside the box with the receptacle face through the opening, then secure the box to the receptacle using two #10-32 x $^1/_2$" screws (Figure 1).

7. Complete the wiring of receptacles, then secure the covers to the hardwire junction boxes using #10 x $^3/_8$" screws at all required locations per box as illustrated (Figure 1).

8. With the assistance of two or more people, move the hardwired electrical assembly down onto the installed dual-sided junction box mounting brackets while routing the pass-through conduit over the intermediate leg top. Also, make sure that the infeed conduit routes inside of the end leg as illustrated. Align the mounting holes of the hardwire boxes with the slot in each dual-sided junction box mounting bracket and secure using two #10 x $^3/_8$" screws per bracket, four in total per hardwire junction box (Figure 2).

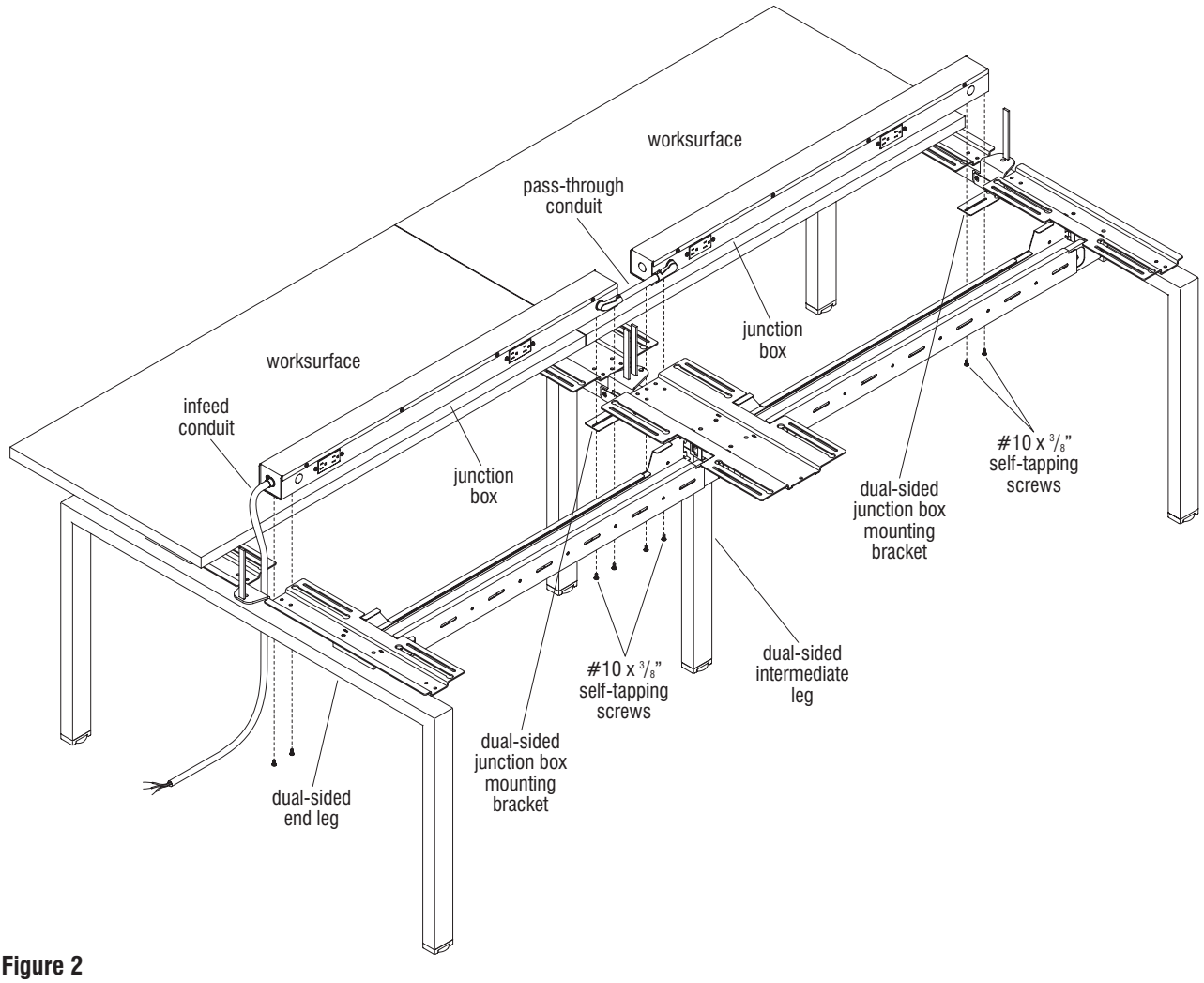


Figure 2

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.

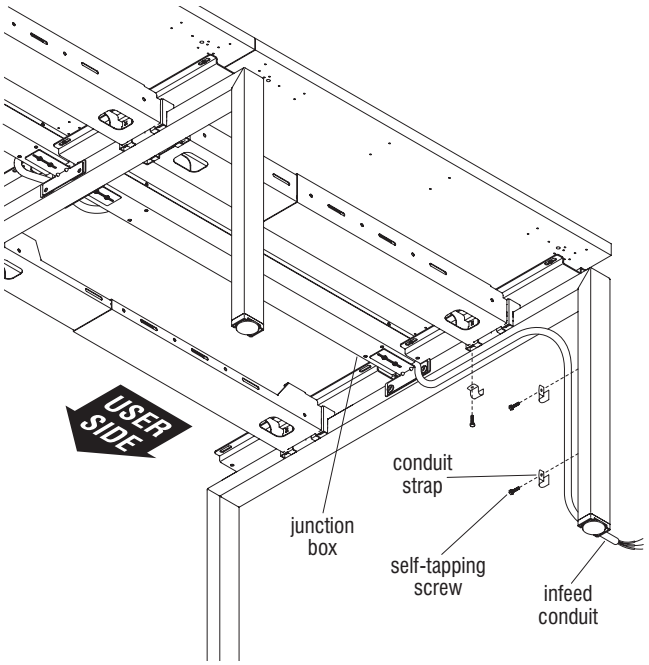


Figure 3 - Dual-Sided Benching - Hardwired Base Power Infeed

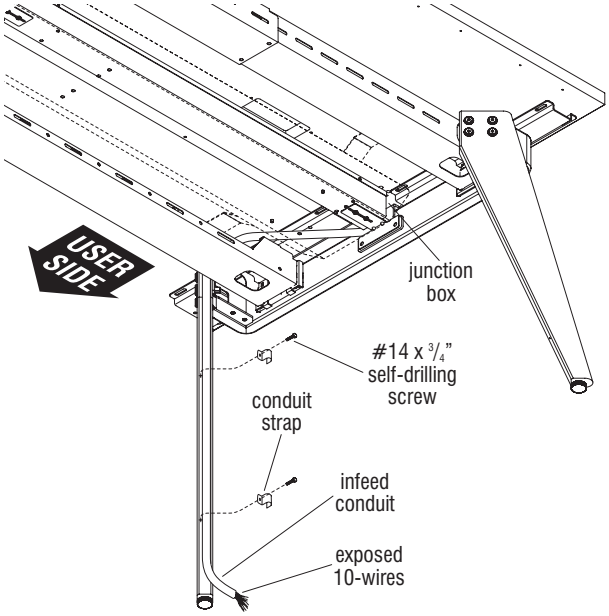


Figure 4 - Dual-Sided Wood Leg Benching - Hardwired Base Power Infeed

Dual-Sided Benching with Hardwired Electrical (cont.)

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All state and local codes at the job site must be followed.

Note: A wire enclosure unit or three conduit straps are recommended to secure the power infeed flexible conduit to a dual-sided end leg. If conduit straps are to be used, proceed to step 9.

9. Position the flexible conduit (customer supplied) under the horizontal of the leg at an ideal location, place a conduit strap (customer supplied) into position and mark the mounting hole location. Do the same for the two mounting locations on the inside of the vertical leg member (Figure 3).

10. Position the flexible conduit and conduit straps out of the way. Use a hammer and punch to mark the mounting locations, then drill pilot holes using an appropriate size drill bit at each marked location (Figure 3).

11. Position the conduit straps over the flexible conduit and secure each to the leg using customer supplied self-tapping screws at the pre-drilled locations. Be careful to not over-tighten (Figure 3).

12. Install second row of tops following appropriate instructions on pages 57 or 59, then refer back to this page.

13. Go to page 51 instructions, following steps 5, 6 & 7 (Figure 2) and install "cable tray" under the hardwire electrical assembly, then refer back to this page.

14. Locate and follow appropriate instructions in this manual to install any other specified components such as privacy screens and dividers.

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.

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

Dual-Sided Benching with Supporting Privacy Screens - 10-Wire Rigid Wireway Installation

Note: If center work rail supported 10-wire electrical is specified, either one or two 10-wire rigid wireways are specified for installation to the underside of the supporting privacy screen as instructed below. The threaded extruded channel allows for nearly infinate mounting locations, so careful measurements must be made and 10-wire rigid wireway(s) must be installed accurately.

Note: If center work rail supported 10-wire electrical is specified to frameless privacy screens, it is the same installation procedure as the 10-wire rigid wireways to underside of supporting privacy screens (Detail A).

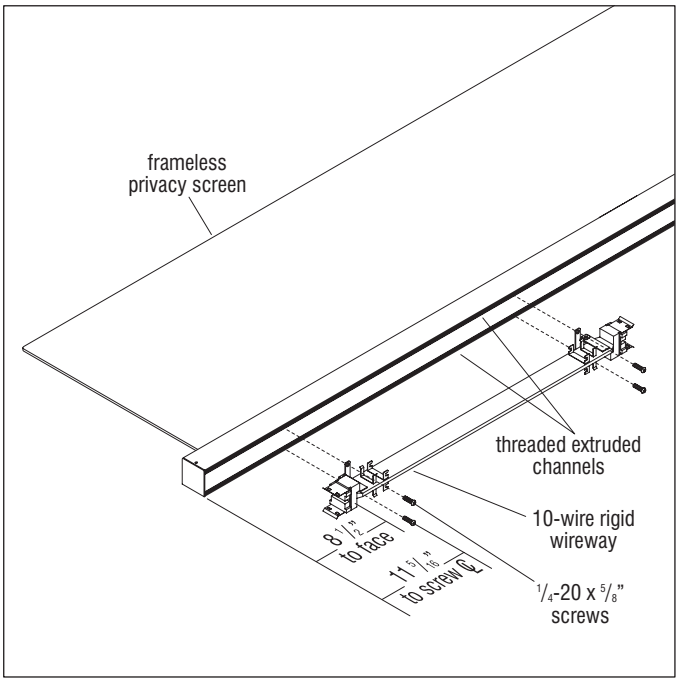
Note: Center work rail electrical on Dual-Sided Wood Leg Benches can only be specified with frameless privacy screens.

1. Carefully lay supporting privacy screen onto it's side as illustrated and locate the two threaded extruded channels at the underside of the screen (Figure 1).

2. The supporting privacy screen can be several possible lengths, so measurements must be made to install the 10-wire rigid wireway(s) to be the correct distance from end(s) of the underside channel.

3. The mating face of the 10-wire rigid wireway must be 8 1/2" from the end of supporting privacy screen when mounted to the underside of the screen. Alternately, a measurement of 11 5/16" can be made from the end of the supporting privacy screen underside to the location where two 1/4-20 x 5/8" screws will mount the 10-wire rigid wireway into the channel (Figure 1).

4. Make careful measurements and secure 10-wire rigid wireway(s) to threaded extruded channels using 1/4-20 x 5/8" screws (Figure 1 & Detail A).



Detail A

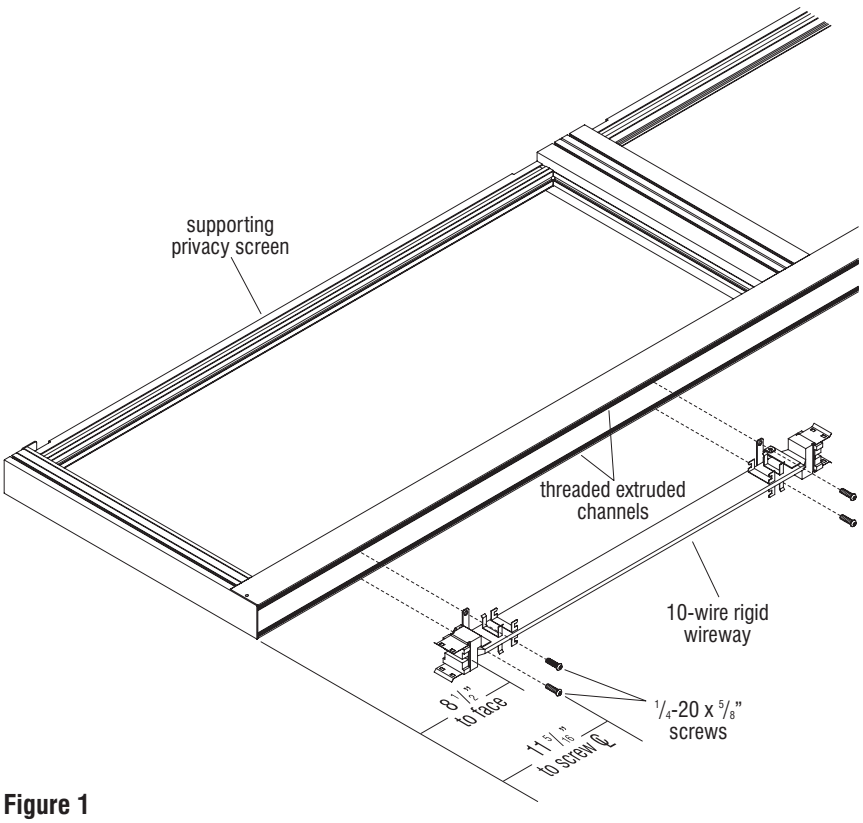


Figure 1

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.

Dual-Sided Benching - Supporting Privacy Screens Installation

Note: Supporting privacy screens on dual-sided benching act as worksurface space separators, but more importantly are designed to have various "privacy screen mounted" cabinets, shelves or cubbies installed on top of them. Supporting privacy screens may also be specified with rigid wireways, known as "rail mounted 10-wire electrical", which are mounted under the units in the field (Figure 1, page 76). The instructions to follow illustrate an example of common components. Your configuration may vary.

Important: At locations where a top power infeed is specified, a "top infeed support bracket" must attach to the inside of a leg at the 10-wire power infeed location before a "rail mounting L-bracket" can be installed (Figure 2).

5. Begin by installing two rail mounting L-brackets, one at each of the two center locations on end legs as illustrated. Secure the rail mounting L-brackets using two M8 x 20mm screws per bracket. If top infeed support bracket is specified, install that under the rail mounting L-bracket at this time (Figure 2).

6. Set the supporting privacy screen assembly onto the installed rail mounting L-brackets. For stand-alone frame assemblies, center the supporting privacy screen exactly on the frames with equal overhang at each side. If the supporting privacy screen is to install to an intermediate, or shared support frame on either end, the end of that supporting screen will be 1/16" short of center on the shared/intermediate end frame (Figure 2).

   Note: Supporting privacy screens are designed to center exactly on worksurfaces in all configurations. Worksurface tops are not yet installed, so care must be taken to pre-align supporting screens as outlined below. Threaded, extruded channels exist in the underside of the supporting privacy screen "rail" (rather than pre-drilled holes) to thread screws into. The threaded channel allows for unlimited side-to-side alignment. If proper alignment of supporting screen is not achieved, loosening, re-alignment and re-tightening is required after installation of worksurfaces.

7. With supporting privacy screen correctly positioned over rail mounting L-brackets, insert four 1/4-20 x 1" Torx drive screws through each L-bracket, insert into the threaded channels of the rail under the supporting screen, and tighten to secure (Figure 2).

8. If specified, the supporting privacy screen may contain one or two 10-wire rigid wireways attached to the rail, depending on length of screens. If two rigid wireways are attached, plug the appropriate power jumper in between the wireways. Locate and plug all duplex receptacles into both sides of the 10-wire rigid wireways, taking care to follow the space-planning layout for correct receptacle number/placement (Figure 2).

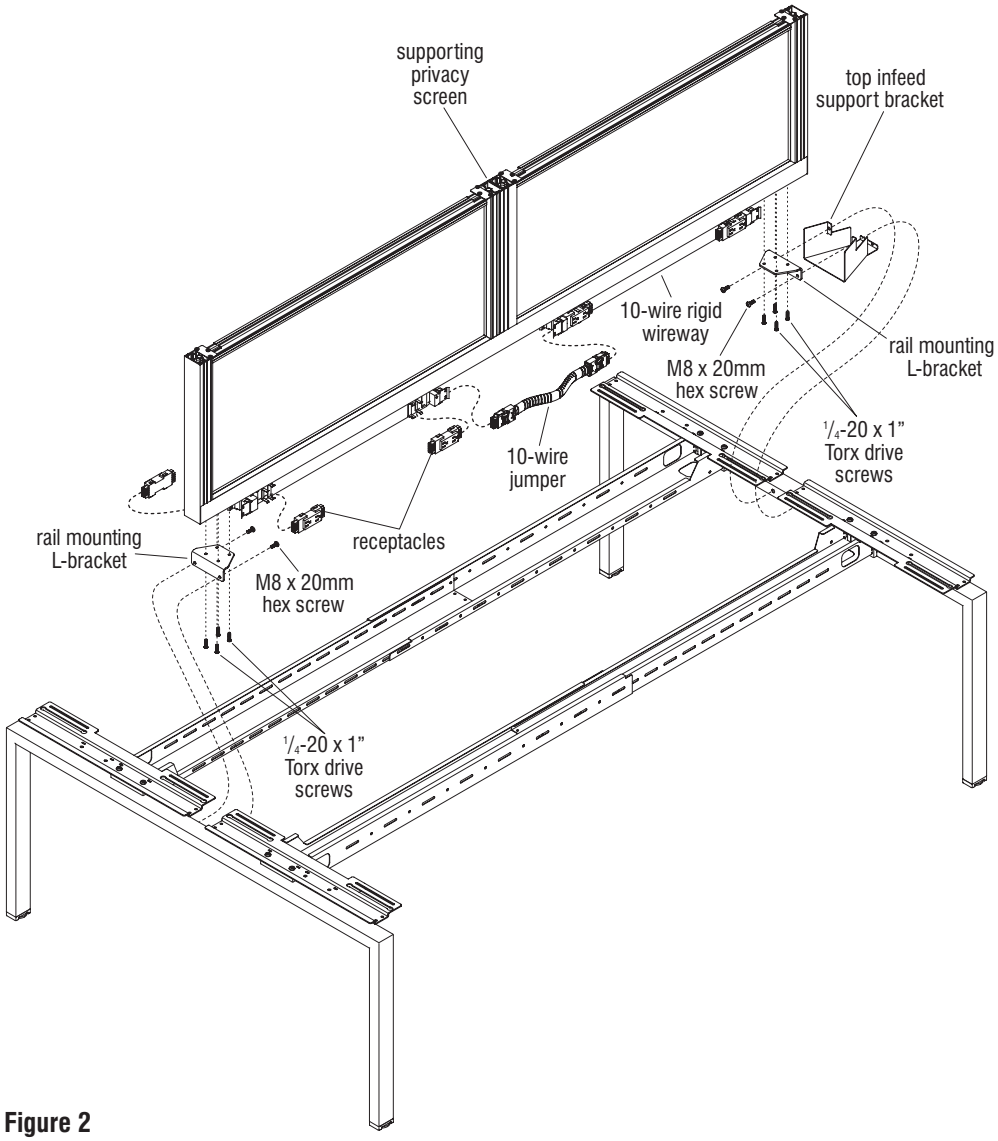


Figure 2

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.

Dual-Sided Benching with Supporting Privacy Screens - Worksurface Installation

Note: The instructions to follow illustrate the assembly of sliding worksurfaces on dual-sided benching with supporting privacy screens. If your installation of worksurfaces is to be to fixed tops onto dual-sided benching, reference the instructions on page 57, Figure 3.

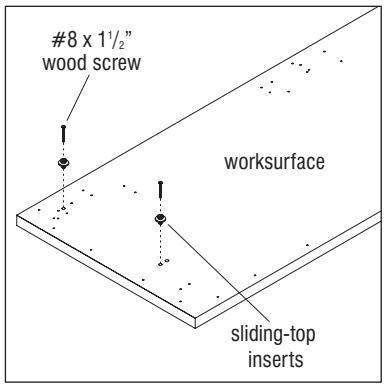
9. Sliding worksurfaces must be prepared prior to placing them onto dual frame units for assembly. Carefully turn worksurface upside down on a soft, protective surface. Locate the sliding-top inserts and #8 x 1½" wood screws in the hardware pack. Insert the four sliding-top inserts into the larger pre-drilled holes in the worksurface (two at each end), then secure using the four wood screws (Detail B).

   Note: A channel lock pliers may be required to hold the sliding-top insert from spinning while tightening the screw. Take care to not hold insert too tight with a pliers or over-tighten the screw because the insert may be damaged or split.

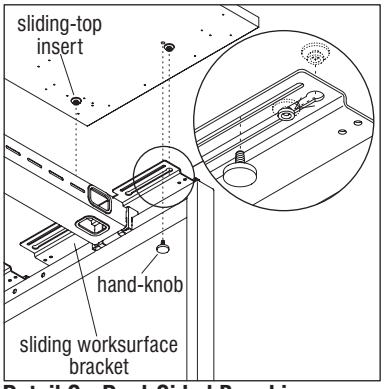
10. Carefully turn the worksurface right-side up and set it onto the benching leg with installed sliding worksurface brackets. Orient the worksurface so the four sliding-top inserts drop down through the round cut-outs in the slots of the sliding worksurface brackets. Slide the worksurface away from the user-side slightly, then twist in a hand-knob through the inner slot in the bracket at the underside of the worksurfaceas illustrated (Figure 3 & Detail C).

11. At the other end of the worksurface, install a hand-knob and repeat the steps above for all other worksurfaces to be installed (Figure 3, Details B & C).

Important: Before any overhead unit can be installed onto supporting privacy screens, **divider screens (if specified) must be installed first. See instructions on page 82 along with Figure 8 & Detail E on page 83 if necessary.**



Detail B



Detail C - Dual-Sided Benching, Sliding Worksurfaces Installation

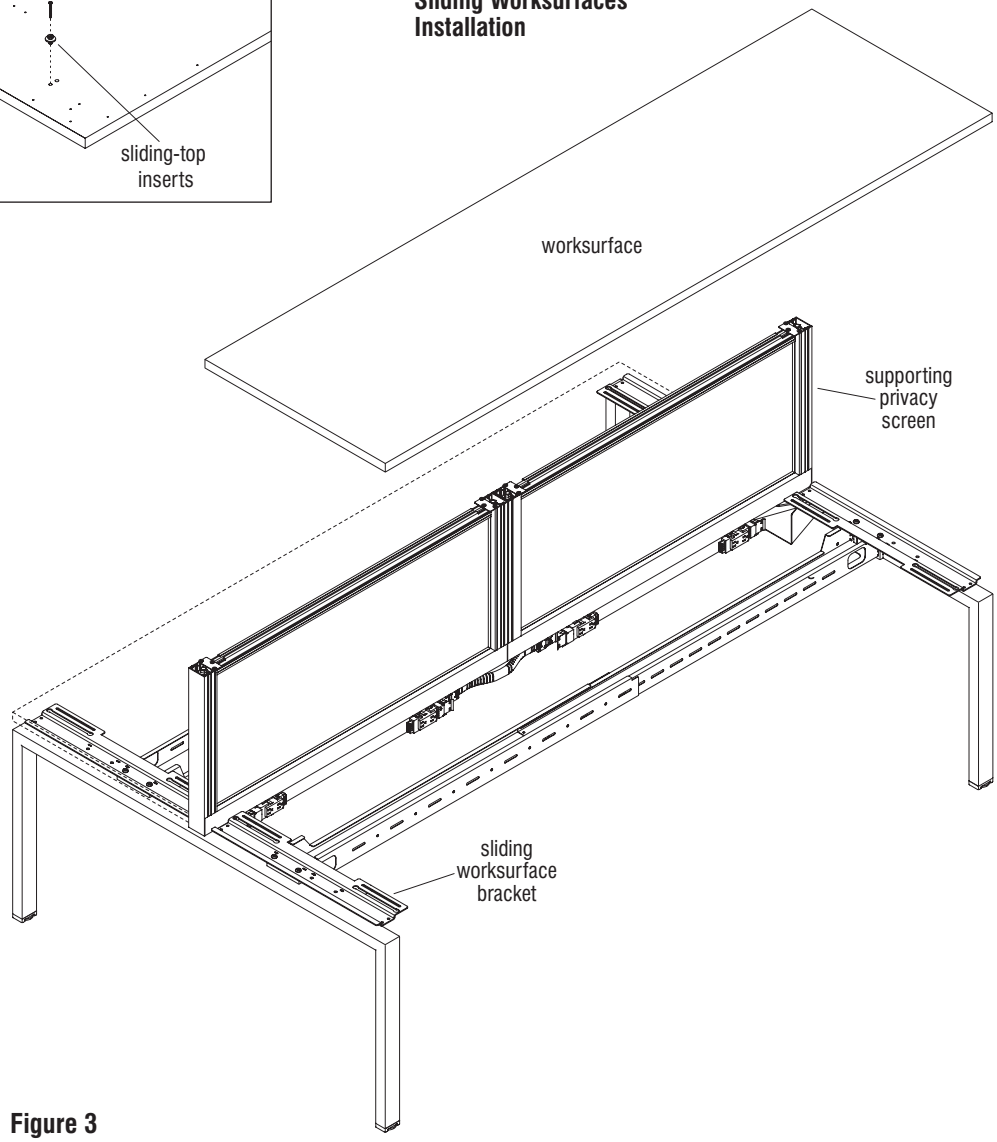


Figure 3

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.

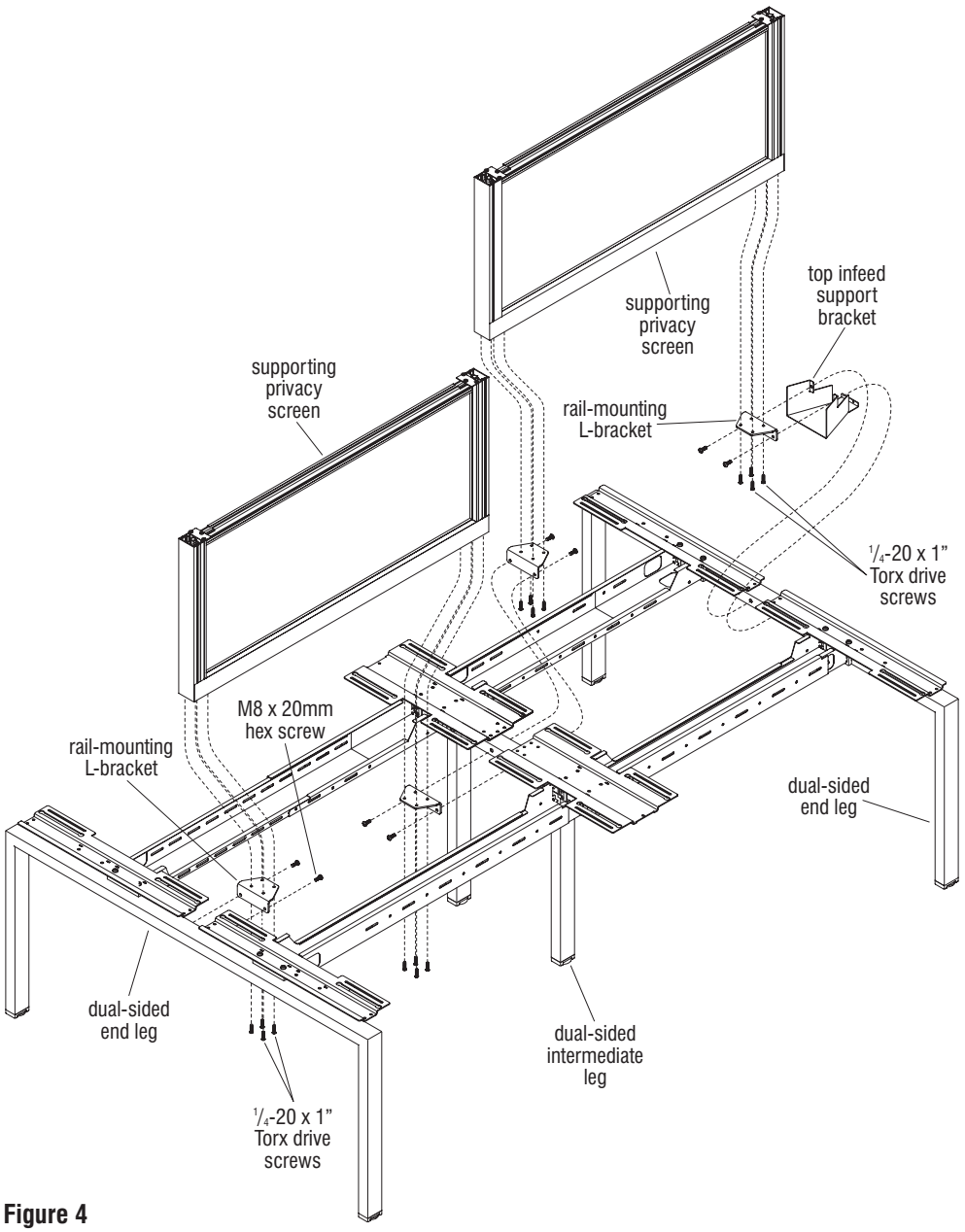


Figure 4

Dual-Sided Benching with Supporting Privacy Screens & Hardwired Electrical

Note: Supporting privacy screens on dual-sided benching act as worksurface space separators, but more importantly are designed to have various "privacy screen mounted" cabinets, shelves or cubbies installed on top of them. The instructions to follow illustrate an example of common components. Your configuration may vary.

Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All state and local codes at the job site must be followed.

Important: At locations where a top power infeed is specified, a "top infeed support bracket" must attach to the inside of a support frame at the power infeed location before a "rail mounting L-bracket" can be installed (Figure 4).

1. Begin by installing four rail mounting L-brackets, one at each of the two center locations on dual-sided end legs and two on each of the center locations on the dual-sided intermediate leg as illustrated. Secure the rail mounting L-brackets using two M8 x 20mm screws per bracket. If top infeed support bracket is specified, install that under the rail mounting L-bracket at this time (Figure 4).

2. Set the supporting privacy screen assembly onto the installed rail mounting L-brackets. Align privacy screen so that it is centered on the frame. With the threaded channels in the rail aligned with the holes on the installed rail-mounting L-brackets, insert four 1/4-20 x 1" Torx screws through each L-bracket and tighten to secure (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.

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

Dual-Sided Benching with Supporting Privacy Screens & Hardwired Electrical (cont.)

Note: The length of the worksurface determines the length of the hardwire junction box used for the assembly. Your configuration may vary.

3. Take the hardwire junction boxes in hand and remove the junction box covers, then set covers aside (Figure 5).

4. Follow all state and local codes at the job site and install wiring to hardwire junction boxes per the space-planning layout. The boxes are joined together by "pass-through conduit" which must have a 7-8" space between them. Be sure to add no less than 1" extra in conduit length (to be 8") between them. The extra 1"+ is added to allow for the conduit to drape down and under the intermediate leg top when the boxes are installed to the threaded extruded channel (Figure 5).

5. Different style receptacles (customer supplied) will wire differently.

6. Depending on the type of receptacle used, determine if the individual wires will attach to the receptacle before or after they are mounted to the specified locations in the hardwire junction boxes. To mount receptacles to the box, position receptacles inside the box with the receptacle face through the opening, then secure the box to the receptacle using two #10-32 x 1/2" screws (Detail D).

7. Position the pair of hardwire junction boxes up under the threaded extruded channels of the privacy screen such that each box end is 1/2" from the crossbeam of the leg at each end, covering a portion of each rail-mounting L-bracket. Secure the hardwire junction boxes to this precise location using four 1/4-20 x 5/8" screws per box as illustrated. The pass-through conduit will hang under the dual-sided intermediate leg (Figure 6).

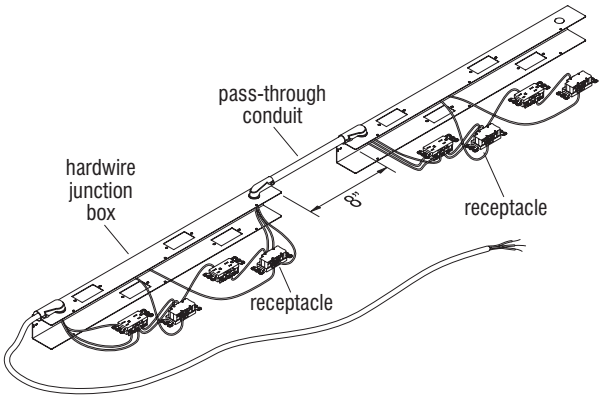
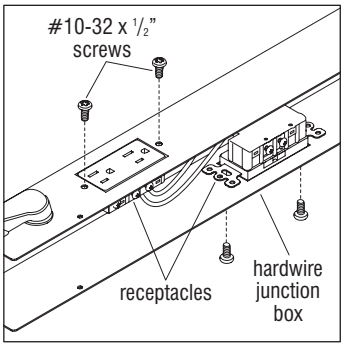


Figure 5



Detail D

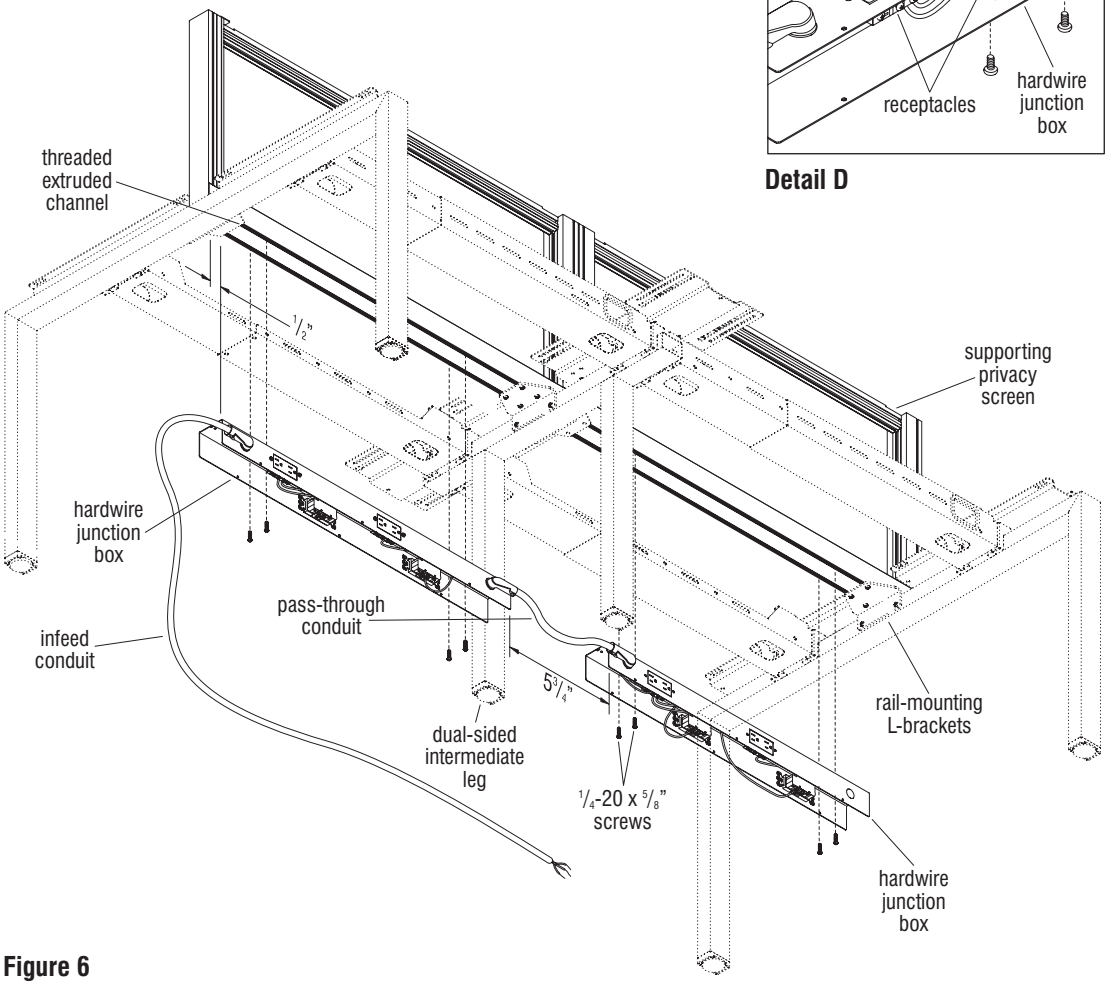


Figure 6

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.

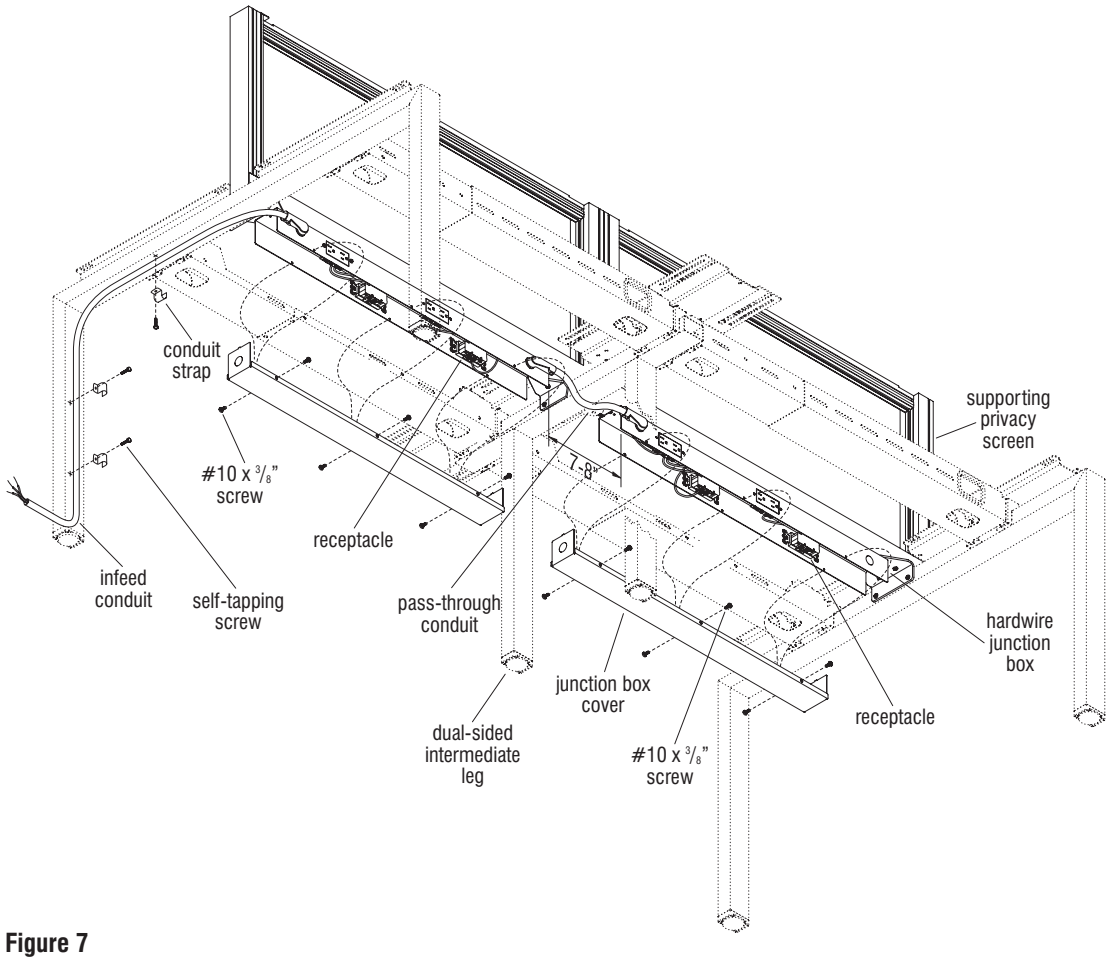


Figure 7

8. Secure the covers to the hardwire junction boxes using #10 x 3/8" screws at all required locations per box as illustrated (Figure 7).

   Note: The power infeeds are to be connected to the power source by a qualified electrician who must also check the electrical integrity of the finished system. All state and local codes at the job site must be followed.

   Note: Three conduit straps are recommended to secure the flexible conduit to a dual-sided end leg. One may be installed under the leg on the horizontal member, and two are to be used on the vertical inside of the leg (Figure 7).

9. Position the flexible conduit (customer supplied) under the horizontal of the leg at an ideal location, place a conduit strap (customer supplied) into position and mark the mounting hole location. Do the same for the two mounting locations on the inside of the vertical leg member (Figure 7).

10. Position the flexible conduit and conduit straps out of the way. Use a hammer and punch to mark the mounting locations, then drill pilot holes using an appropriate size drill bit at each marked location (Figure 7).

11. Position the conduit straps over the flexible conduit and secure each to the leg using customer supplied self-tapping screws at the pre-drilled locations. Be careful to not over-tighten (Figure 7).

12. Install worksurfaces following appropriate instructions on pages 57 or 60.

13. Go to page 51 instructions, following steps 5, 6 & 7 (Figure 2) and install "cable tray" under the hardwire electrical 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.

Sliding Dual-Sided Benching with Divider Screens to Supporting Privacy Screens Installation

Important: The instructions below cover sliding worksurfaces. If fixed worksurfaces with supporting privacy screens installed will receive divider screens, the assembly process is similar, except that fixed left, middle and right-hand divider brackets are used (Detail E, next page and instructions pages 83 through 84).

Note: All divider screens are shipped with attachment screws in the vertical, rear member for attaching right, or left "end divider screens" to the vertical support. Middle divider screens (if specified) are installed different, and the screws must be removed (step 20). Also, all left-end and middle divider screens attach at the front (user side) using "sliding left-hand divider brackets". Only right-end divider screens use a "sliding right-hand divider bracket".

14. Prepare the supporting privacy screen for installation of the left end divider screen by first removing shipping plate from the top of the left supporting screen where the end divider will install. Remove the three screws to do so. The shipping plate may be discarded, but save the screws for step 27. Next, locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen at least 6" from the back and twist the spacer 90° to lock it in position (Figure 8).

15. Locate a "sliding left-hand divider bracket" and rotate it 90° out of line with the divider screen as shown and insert the front "T-tab" into the horizontal T-slot in the underside of the divider. Once the T-tab is engaged, rotate the sliding left divider bracket back 90° as illustrated to be in line under the divider and hold in place for the next step (Figure 8).

16. Prepare the divider screens for installation by using a flat-blade screwdriver to pry off the top end cap from the divider screen end post where the end divider will install to the privacy screen. Remove the link strip with #8 x $^1/_2$" Phillips pan head screws from the divider screen end post (Details F & G).

17. Insert the new link strip with the #6 x $^1/_2$" Phillips pan head screws into the divider screen end post. Next, tap back into position the previously removed top end cap, onto the top divider screen end post (Details H & F).

18. Position the divider screen at the end adjacent the supporting privacy screen such that the attachment screw heads at the back of the divider screen nest into the vertical T-slot in the supporting screen. Slide the divider screen down while holding the sliding left-hand divider bracket out to clear the front of the worksurface until the divider screen rests on the worksurface (Figure 8).

19. Align the end divider screen straight with the worksurface side, press the sliding divider bracket in to meet the front of the worksurface and tighten the set screws at the underside of the divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Repeat process following steps 14 through 19 for right-end divider using a "sliding right-hand divider bracket (Figure 8).

Note: All divider screens are shipped with attachment screws in the vertical, rear member. For center dividers, the screws must be removed.

20. To install a middle divider screen, first remove the screws from the back of the screen. Next remove the six screws and two shipping plates from the top of the supporting privacy screens where the end divider will install. The shipping plates can be discarded, but save the screws for later (Figure 8).

Important: The T-boss of the attachment clips are offset and must be oriented to center the divider properly when installed.

21. At each union of supporting privacy screens to receive divider screens, correctly orient and slide the T-boss of two divider attachment clips down the T-slot (where shipping plates were removed) and into position with one above the other as illustrated (Figure 8).

22. Locate a "sliding left-hand divider bracket" and rotate it 90° out of line with the divider as shown, then insert the front "T-tab" into the horizontal T-slot in the underside of the divider. Once the bracket's T-tab is engaged, rotate the divider bracket back 90° as illustrated to be in line under the divider and hold in place for the next step (Figure 8).

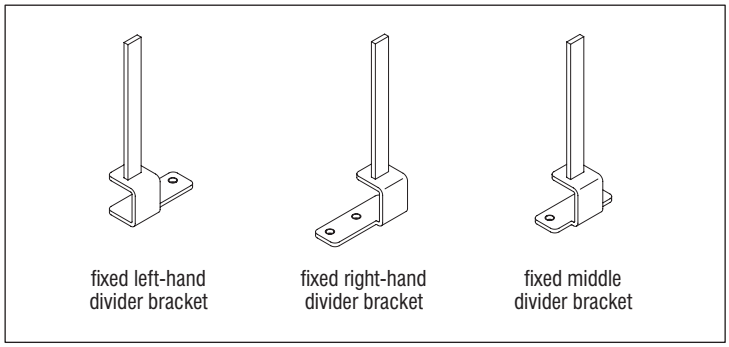
23. Locate a "divider spacer", position it into the horizontal T-slot at the underside of the divider screen at least 6" from the back and twist the spacer 90° to lock it in position (Figure 8).

24. Set the middle divider screen in position on the workusrface(s) and slide back to "clip" the screen into the installed divider clips. Take care to assure the divider is straight, then tighten the two set screws at the underside front of the sliding left-hand divider bracket. Only tighten the set screws so the tops of the set screws are flush with the bracket face. Do not over-tighten (Figure 8).

25. Repeat steps 20 through 24 for all middle divider screens to be installed, then go back and adjust all divider spacers and divider attachment clips to be uniform along the run of benching (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.



Detail E - Fixed Divider Brackets

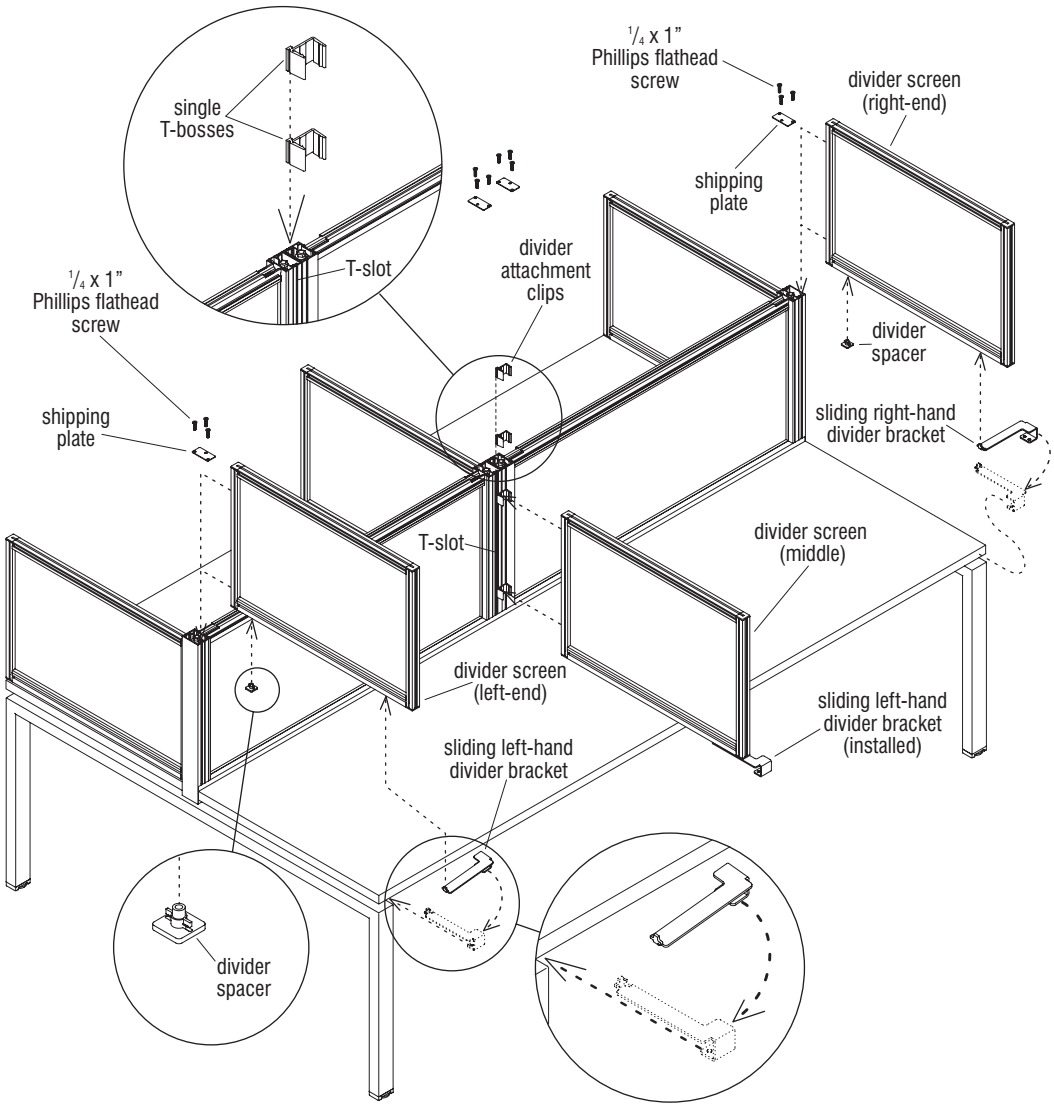
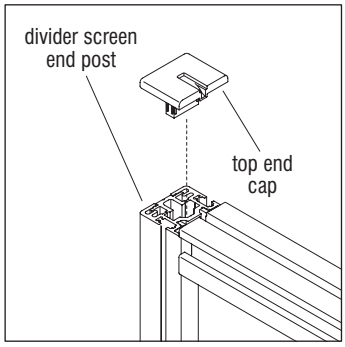
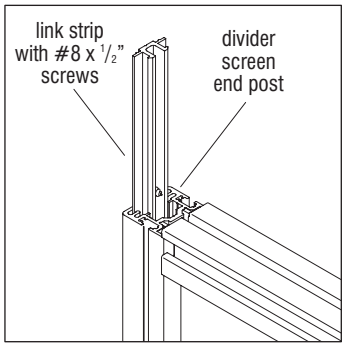


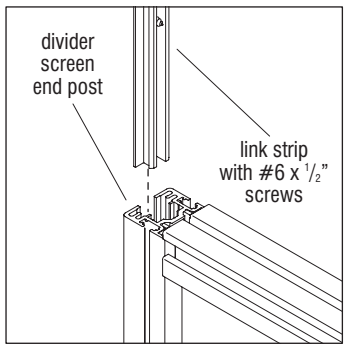
Figure 8



Detail F



Detail G



Detail H

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.

Supporting Privacy Screens - Mounted Overhead Cabinets Installation

Important: If divider screens are specified, as shown in Figure 9, they must be installed prior to the installation of any overhead unit onto supporting privacy screens.

Note: Supporting privacy screen mounted "overhead cabinet" installation is shown in the steps below (Figure 9). Your units may vary. With wooden shelves, use hardware provided, align mounting holes and attach using screws from underneath.

26. If divider screens were installed, then the shipping plates (and screws) have been removed from supporting privacy screens (Figure 9). If not, remove all shipping plates from the top of supporting privacy screens to receive supporting screen mounted overhead cabinet(s). Retain the removed $^1/_4$ x 1" Torx drive flathead screws for the next step (Figure 8).

27. At supporting privacy screen ends (or at the location where a run of supporting screen mounted cabinets will end), a "single overhead mounting plate" is used. Orient the single overhead mounting plate, with larger counter-sink holes facing up, over screw bosses in the top of the supporting privacy screen (at locations where shipping plates were removed) and secure each single-plate using six $^1/_4$ x 1" Phillips flat head screws. Three screws are to be re-used from removal of the shipping plate (previous steps 14 & 20). Tighten to secure (Figure 9).

28. "Dual-overhead mounting plates" span two supporting privacy screens and support the ends of two supporting screen mounted units (overhead cabinets shown). Position the dual-overhead mounting plate, with larger counter-sink holes facing up, over the twelve screw bosses in the top of two supporting privacy screens (over locations where shipping plates were removed) and secure using twelve $^1/_4$ x 1" Torx drive flathead screws. Six screws are to be re-used from removal of the shipping plates (previous steps 14 & 20). Tighten to secure (Figure 9).

29. Position supporting screen mounted unit (overhead cabinets shown) onto overhead mounting plates and align mounting holes. From underneath mounting plates, secure each cabinet with four $^5/_{16}$ x 1" Phillips flat head screw per cabinet (Figure 9).

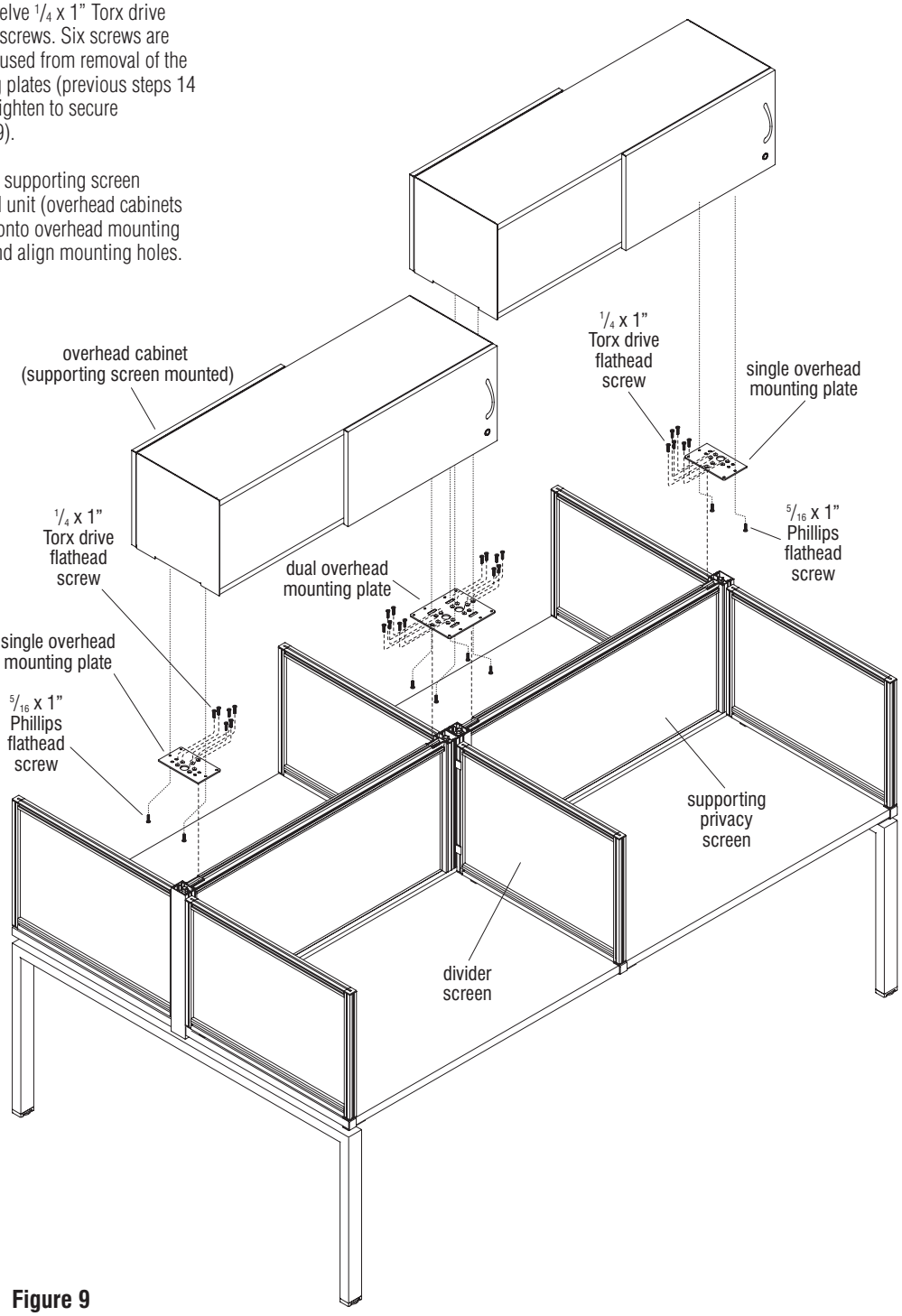


Figure 9

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

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.

Dual-Sided Benching with Frameless Privacy Screen & 10-Wire Electrical

Note: Frameless privacy screens on dual-sided benching act as worksurface space separators, but may also be specified with rigid wireways, known as "center work rail electrical", which are mounted under the units in the field (Figure 1 & Detail A, page 76). The instructions to follow illustrate an example of common components. Your configuration may vary.

1. If center work rail electrical is specified to frameless privacy screens, go now to **"Dual-Sided Benching with Supporting Privacy Screens & 10-Wire Electrical"**, page 76 instructions (Figure 1 & Detail A) which is the same installation procedure for 10-wire rigid wireways to underside of frameless privacy screens. Then return back to these instructions below.

Important: At locations where a top power infeed is specified, a "top infeed support bracket" must attach to the inside of a support frame at the power infeed location before a "rail mounting L-bracket" can be installed (Figure 10 & Detail I).

2. Begin by installing two rail mounting L-brackets, one at each of the two center locations on support frames as illustrated. Secure the rail mounting L-brackets using two M8 x 20mm screws per bracket. If top infeed support bracket is specified, install that under the rail mounting L-bracket at this time (Figure 10).

3. Set the frameless privacy screen assembly onto the installed rail mounting L-brackets. For stand-alone frame assemblies, center the frameless screen exactly on the frames with equal overhang at each side. If the frameless privacy screen is to install to a dual-sided intermediate leg on either end, the end of that frameless screen will be 1/16" short of exact center on the intermediate leg (Figure 10).

   Note: Frameless privacy screens are designed to center exactly on worksurfaces in all configurations. Worksurface tops are not yet installed, so care must be taken to pre-align privacy screens as outline below. Threaded, extruded channels exist in the underside of the frameless privacy screen (rather than pre-drilled holes) to tap screws into. The threaded channel allows for unlimited side-to-side alignment. If proper alignment of frameless screen is not achieved, loosening, re-alignment and reassembly is required after installation of worksurfaces.

4. With frameless privacy screen correctly positioned over rail mounting L-brackets, insert four 1/4-20 x 1" Torx screws through each L-bracket and insert into the threaded channels in the rail under the frameless screen and tighten to secure (Figure 10).

5. If specified, the frameless privacy screen may contain one or two 10-wire rigid wireways attached to the rail, depending on length of the frameless screen. If two rigid wireways are attached, plug the appropriate 10-wire jumper in between the wireways. Locate and plug all duplex receptacles into both sides of the 10-wire rigid wireways, taking care to follow the space-planning layout for correct receptacle number/placement (Figure 10).

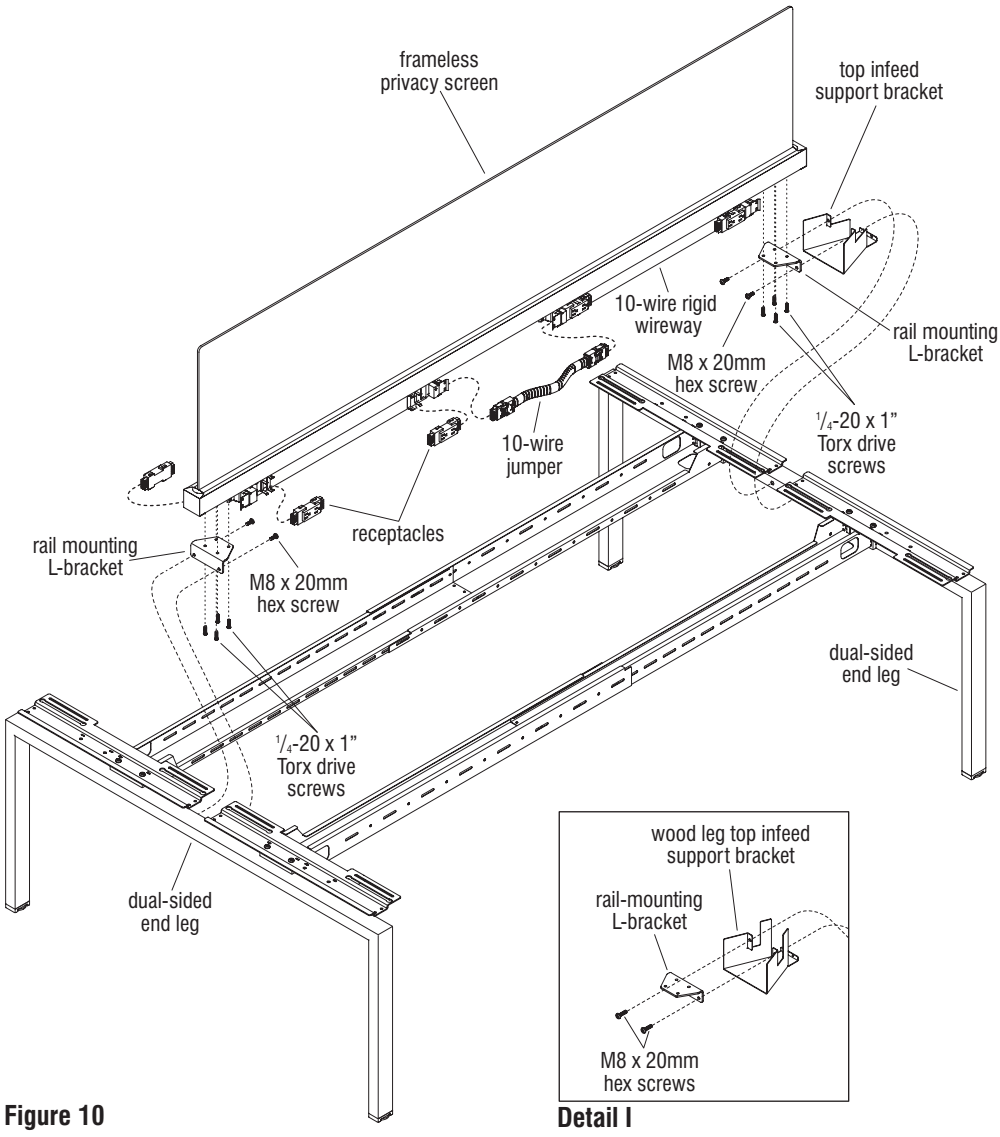


Figure 10

Detail I

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.

Dual-Sided Benching with Frameless Privacy Screen - Worksurface Installation

Note: Worksurfaces may install to either dual fixed worksurface support brackets (outlined page 57, Figure 3) or sliding worksurface support brackets (shown this page). See appropriate instructions as outlined below.

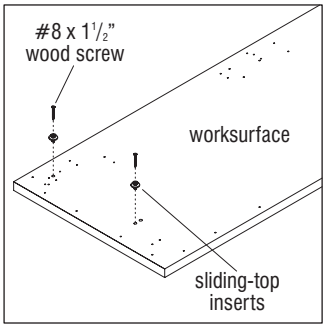
6. Dual-sided benching, sliding worksurface installation with frameless privacy screen installed (Figure 11), is similar in process as worksurface installation to leg/beam units with standard privacy screens. When privacy screens are illustrated and referenced in general instructions (page 44), they visually represent frameless privacy screens for all worksurface assembly purposes in this section. See page 57, Figure 3 instructions for fixed worksurface installation.

7. Sliding worksurfaces must be prepared prior to placing them onto dual frame units for assembly. Carefully turn worksurface upside down on a soft, protective surface. Locate the sliding-top inserts and #8 x 1½" wood screws in the hardware pack. Insert the four sliding-top inserts into the larger pre-drilled holes in the worksurface (two at each end), then secure using the four wood screws (Detail J).

   Note: A channel lock pliers may be required to hold the sliding-top insert from spinning while tightening the screw. Take care to not hold insert too tight with a pliers or over-tighten the screw because the insert may be damaged or split.

8. Carefully turn the worksurface right-side up and set it onto the benching frame with installed sliding worksurface brackets. Orient the worksurface so the four sliding-top inserts drop down through the round cut-outs in the slots of the sliding worksurface brackets. Slide the worksurface away from the user-side slightly, then twist in a hand-knob through the inner slot in the bracket at the underside of the worksurface as illustrated (Figure 11 & Detail J).

9. At the other end of the worksurface, install a hand-knob and repeat the steps above for all other worksurfaces to be installed (Figure 11, Details J & K).



Detail J

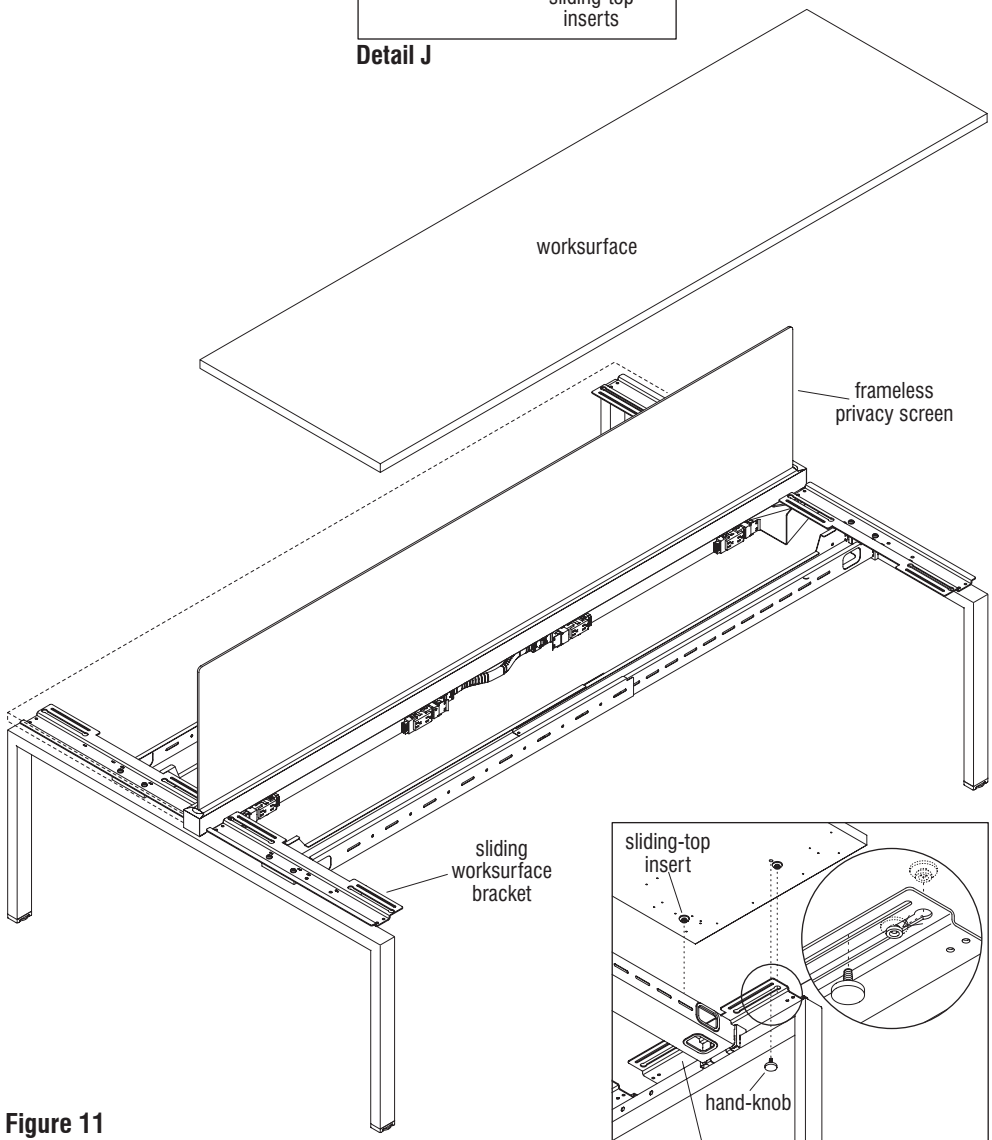
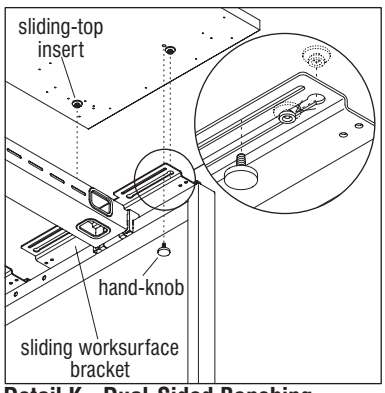


Figure 11



Detail K - Dual-Sided Benching - Sliding Worksurfaces Installation

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.

Dual-Sided Benching - Return & Extended Corner Worksurfaces Installation

Note: A "perpendicular support frame" consists of a "cantilever worksurface support bracket" installed to the top of an end leg with a fixed worksurface bracket. The section to follow (Detail A & Figures 1 through 3) illustrate the assembly of a perpendicular support frame and its various uses. Your configuration may vary.

Important: This section includes configurations with cantilever attachment to "fixed" worksurfaces. Conference end installations adjacent to "sliding" dual worksurfaces require a different installation method. See page 89, Figures 5 & 6.

1. To assemble a perpendicular support frame together, first stand the end leg upright and engage the teeth of a "cantilever worksurface support bracket" into the beam-mount bracket slots as illustrated. Using a weighted hard-rubber mallet, tap down on the vertical walls of the cantilever until it bottoms out and is seated properly (Detail A).
2. Next, install a fixed worksurface bracket to the beam-mount bracket using two M8 x 20mm hex-drive screws. This bracket will support the "return" or "extended-corner" worksurface and hold the cantilever bracket in place (Detail A & Figures 1, 2 & 3).

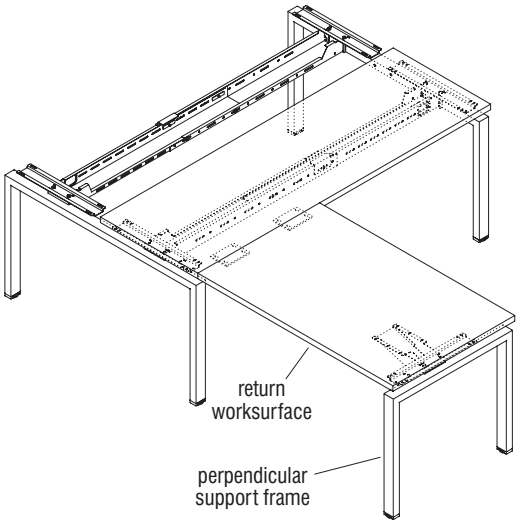


Figure 1 - Dual-Sided Fixed, Return Worksurface to Standard Rectangular

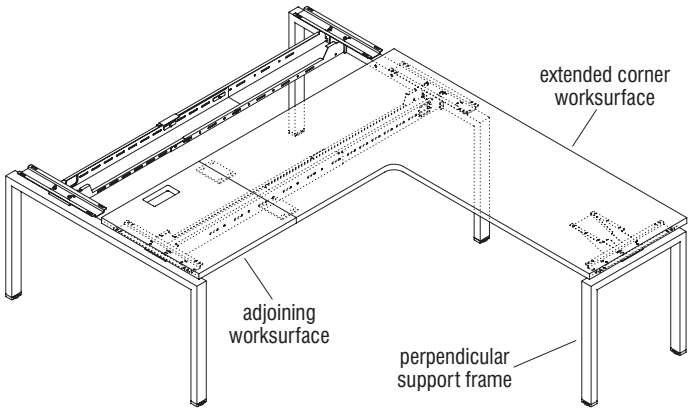


Figure 2 - Dual-Sided Fixed, Extended Corner with Adjoining Worksurface

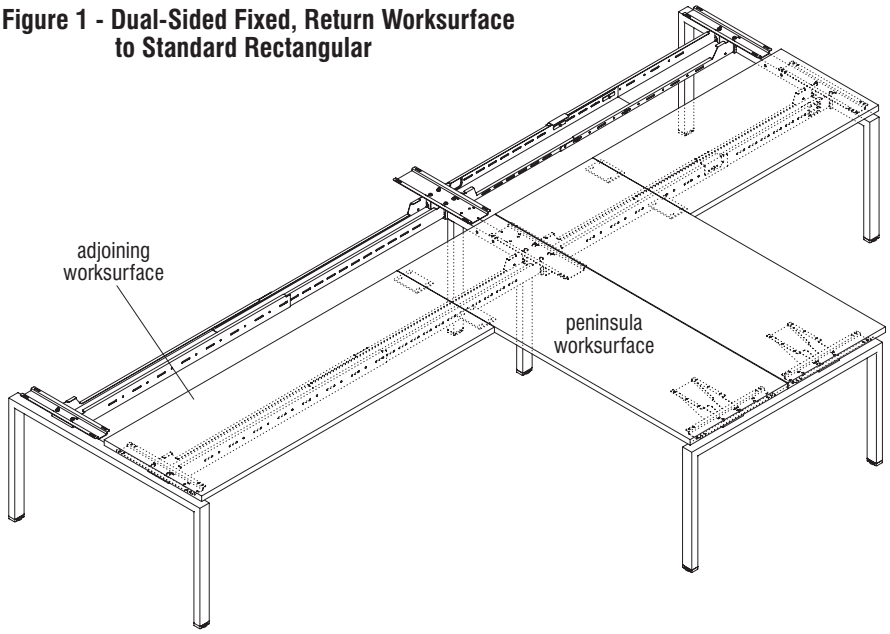
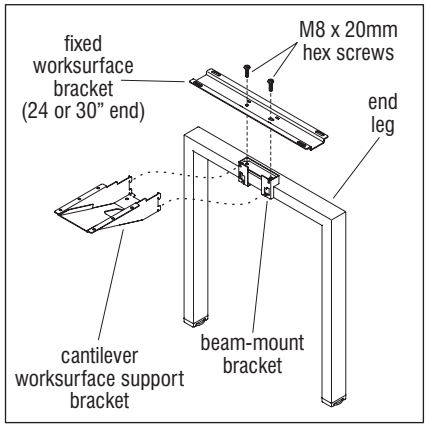


Figure 3 - Dual-Sided Fixed, Peninsula with Adjoining Worksurface



Detail A - Perpendicular Support Frame

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.

Conference End Worksurface Adjacent to Fixed Peninsula Worksurfaces

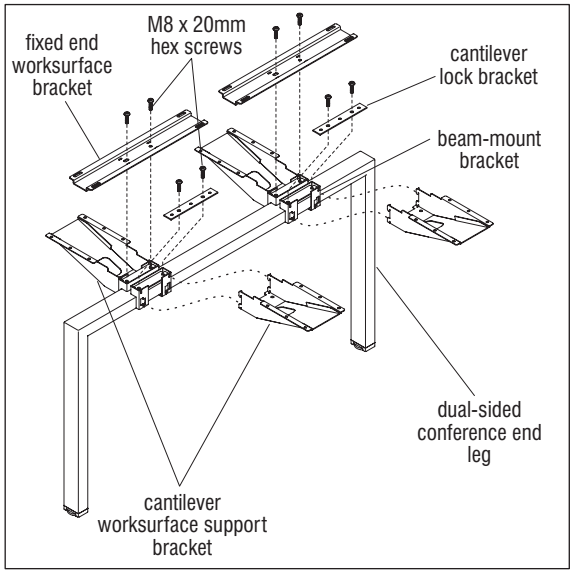
Note: A "perpendicular conference end support frame" consists of four "cantilever worksurface support brackets" installed to the top of a dual-sided conference end leg, but the cantilevers are held in place in a different manner at each side. The section to follow (Detail B & Figure 4) illustrate the proper assembly.

1. To assemble a perpendicular conference end support frame, first stand the dual-sided end conference end leg upright and engage the teeth of four "cantilever worksurface support brackets" into the beam-mount bracket slots as illustrated. Using a weighted hard-rubber mallet, tap down on the vertical walls of each cantilever until it bottoms out and is seated properly (Detail B).

2. Next, on the peninsula worksurfaces side of the support frame, install two fixed worksurface brackets to the beam-mount bracket using M8 x 20mm hex-drive screws to lock in the cantilever (Detail B & Figure 4).

3. On the "conference end" side of the support frame, install two "cantilever lock brackets" using M8 x 20mm hex-drive screws to secure cantilever to beam mount bracket (Detail B & Figure 4).

4. Reference the space-planning layout and follow standard worksurface assembly methods to install conference end frame, two post legs and worksurfaces properly.



Detail B - Perpendicular Conference End Support Frame

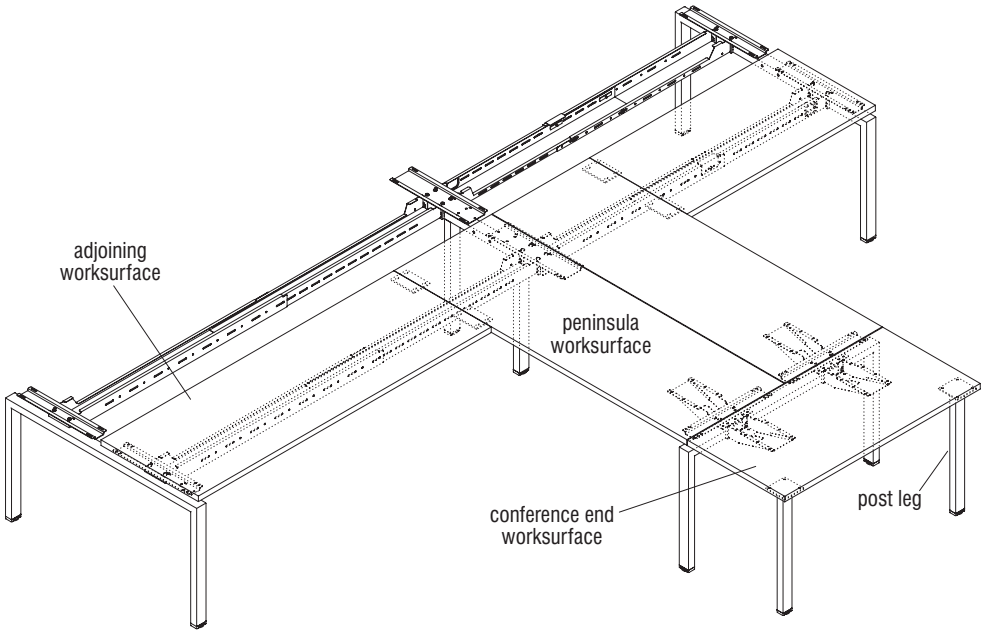


Figure 4 - Conference End with Adjoining Dual-Sided Peninsulas

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.

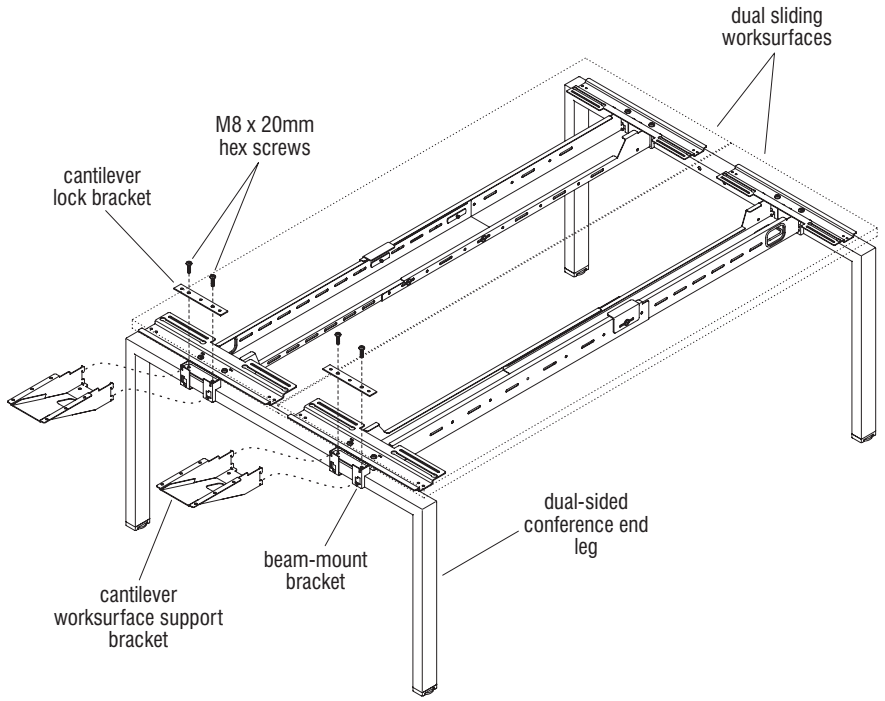


Figure 5 - Conference End Dual-Sided Worksurfaces (sliding shown)

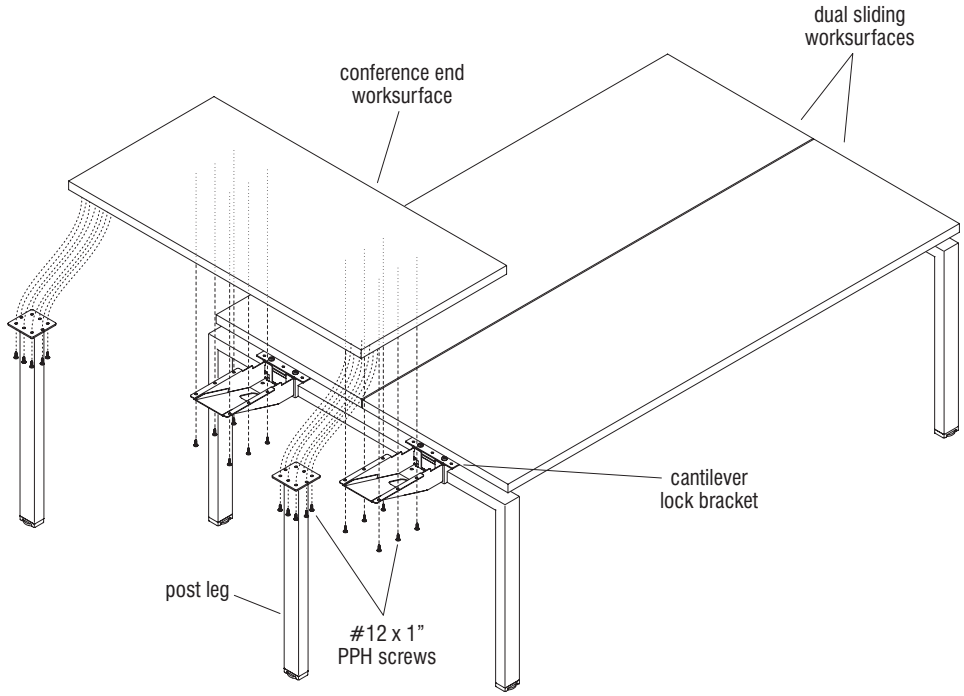


Figure 6 - Conference End with Dual-Sided Worksurfaces (sliding shown)

Conference End Worksurface Adjacent to Dual Worksurfaces

1. At the two beam mount brackets of the dual-sided conference end leg, install two cantilever worksurface brackets into the beam-mount bracket slots as illustrated. Using a weighted hard-rubber mallet, tap down on the vertical walls of each cantilever until it bottoms out and is seated properly. Next, secure the cantilevers in place using cantilever lock brackets and M8 x 20mm hex-drive screws tightened properly (Figure 5).

2. Install two post legs to the outer corners, to the underside of the conference end worksurface using eight #12 x 1" Phillips pan head screws per leg at pre-drilled holes (Figure 6).

3. To install a conference end worksurface with post legs, set the conference end worksurface onto the cantilever brackets. Align mounting holes to pre-drilled holes in the conference end worksurface and secure using six #12 x 1" Phillips pan head screws at each cantilever worksurface support bracket. Take care to not over-tighten screws (Figure 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.

Adder Leg with Cable Riser

Note: The "cable riser panel support hook" should be in position on the horizontal member of the leg prior to installing worksurfaces to the legs, or disassembly will be required.

1. Position cable riser panel support hook as illustrated, orienting it onto the top of the dual-sided intermediate leg, centered between the holes of the horizontal upright (Figure 7).

2. Next, engage the lower tab of the panel support hook into the top of the rear cable riser panel. The rear riser panel will nest between the two legs of the intermediate leg (Figure 7).

   Note: For illustration purposes, page 90, Figure 1 shows assembly of the power infeed to the dual-sided intermediate leg without the leg attached to a table assembly. All table components must be mechanically connected together before any power may be connected to the source power.

3. Run data wires and floor power infeed if required per the space-planning layout.

4. Position the front cable riser panel up between the dual-sided intermediate leg and nest the four tabs of the front panel into the notches in the rear riser panel. Finally, secure the panels together at the top using two #10 x 3/8" self-tapping screws (Figure 7).

5. When all benching units are assembled and joined together, and when all wire harness assemblies have been joined, the pigtails (and data lines, if applicable) can be connected to the power.

Wood Adder Leg with Cable Riser

Note: All table components must be mechanically connected together before any power may be connected to the source power.

1. Run data wires and floor power infeed, if required per the space-planning layout.

2. Nest the rear cable riser panel between the two uprights of the dual-sided intermediate wood leg as illustrated in Figure 8.

3. Secure the rear cable riser panel to the underside of the dual-sided wood rail using two #10-24 x 1/2" self-tapping screws. Secure the riser panel to each leg using a wood leg screw (Figure 8).

4. Position the front cable riser panel up between the two uprights of the dual-sided intermediate wood leg as illustrated in Figure 9. Nest the four tabs of the rear panel into the notches in the front riser panel (Figure 9).

5. When all benching units are assembled and joined together, and when all wire harness assemblies have been joined, the pigtails (and data lines, if applicable) can be connected to the power.

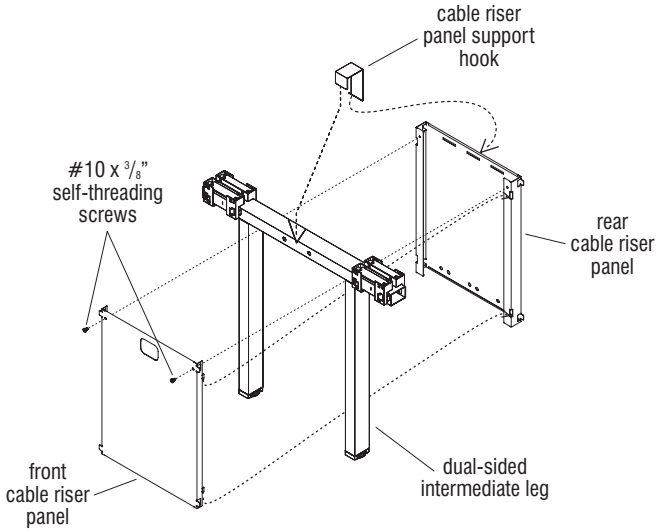


Figure 7 - Dual-Sided Benching - Adder Leg with Cable Riser

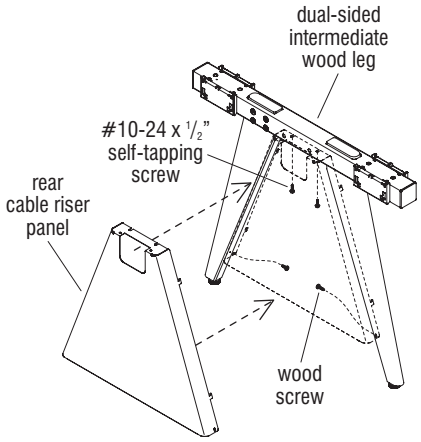


Figure 8 - Dual-Sided Benching - Wood Adder Leg with Cable Riser

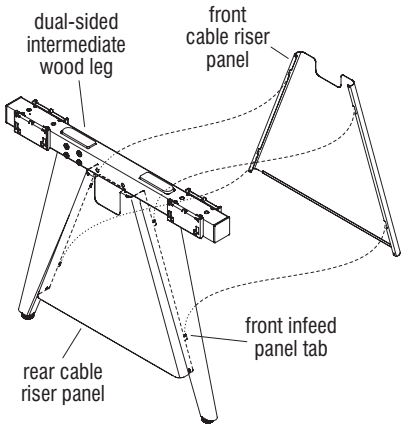
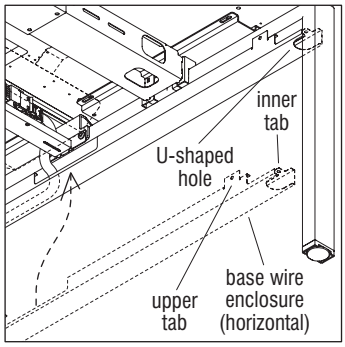


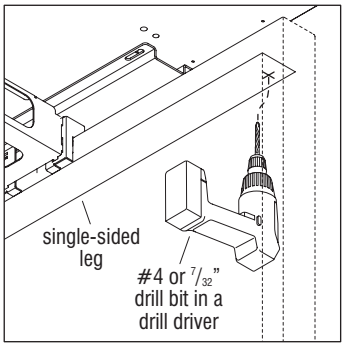
Figure 9 - Dual-Sided Benching - Wood Adder Leg with Cable Riser

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



Detail B

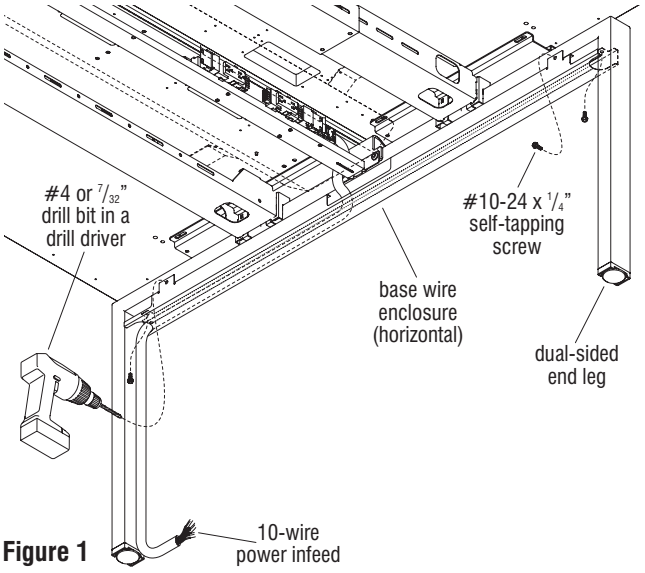


Figure 1

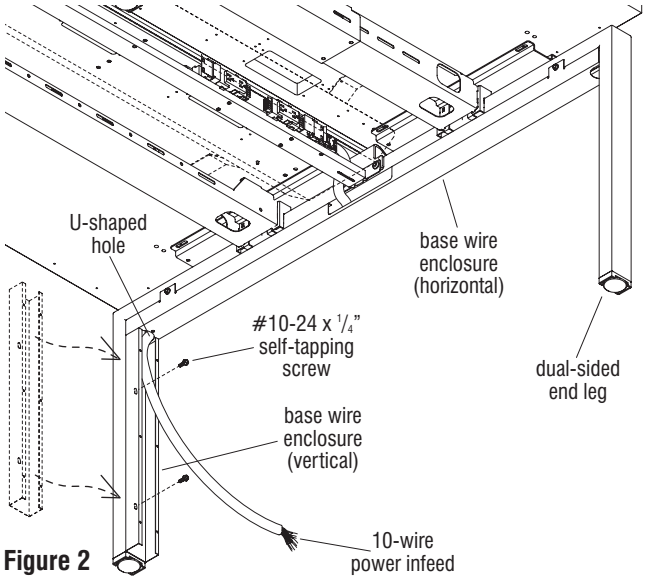


Figure 2

Base Wire Enclosure Installation

Note: The base wire enclosure may be used with various electrical configurations. The instructions to follow outline the assembly of the wire enclosure using 10-wire electrical. Your configuration may vary.

Note: Base wire enclosure can be installed on single-sided benches, dual-sided benches and café height benches. Only dual-sided benching is shown in this procedure, but installation is the same for single-sided and café height benches.

1. Determine which leg the base power infeed will run along into the benching system (Figure 1).

   Note: The upper and inner tabs on the base wire enclosure (horizontal) are used to field locate, mark and pre-drill the wire enclosure mounting holes to the leg.

2. To pre-drill inner tab mounting holes, first place the base wire enclosure (horizontal) up tight in position under the leg as illustrated, with the upper tabs of the enclosure facing up at the inside of the leg under the table. Locate an inner tab in each U-shaped hole on the base wire enclosure then mark the center of each mounting tab location and move the unit away (Detail A).

3. Use a #4 or 7/32" drill bit in a drill driver to carefully bore a hole at the center of each inner tab location into the underside of the leg. Take care to not drill through the other side of the leg (Detail B).

4. If installing the base wire enclosure (horizontal) to house a 10-wire power infeed, bend and route the 10-wire power infeed (or other type of infeed) out from under the center of the table and turn it to fit close to the underside of the vertical member of the leg. Direct the power infeed toward the appropriate leg, setting it into the wire enclosure, then run the power infeed down through the U-shaped opening of the wire enclosure being installed. Position the wire enclosure between the two leg uprights and move it up into position, keeping the power infeed inside the U-shaped opening, while moving the unit up to align the wire enclosure (horizontal) mounting holes in the inner tabs with the pre-drilled holes in the leg. Secure the enclosure to the leg underside using one #10-24 x 1/4" screw per inner tab. Take care to not over tighten (Figure 1).

5. Hold the base wire enclosure (horizontal) tight under the leg. Using the mounting tabs as a template, use a #4 or 7/32" drill bit in a drill driver, to carefully bore a hole at the center of each upper tab location. Secure the enclosure to the leg using a #10-24 x 1/4" screw in each upper tab (Figure 1).

   Note: The holes inside the vertical wire cover are used to field locate, mark and pre-drill the vertical wire enclosure mounting holes to the leg.

6. To pre-drill mounting holes for the base wire enclosure (vertical), first place the enclosure straight against the vertical leg member, and up tight under the U-shaped opening as illustrated with power routing into the wire enclosure. Mark through the wire enclosure mounting holes inside the channel, and onto the inside of the leg, then set the wire cover aside. Use a #4 or 7/32" drill bit in a drill driver to carefully bore two holes at the center of the marked locations. Take care to not drill through the other side of the leg (Figure 2).

7. Position the base wire enclosure (vertical) back up against the leg, aligning the mounting holes of the cover with the pre-drilled mounting holes in the leg. Make sure the wire enclosure is straight and secure it to the inside of the leg using two #10-24 x 1/4" screws. Take care to not over tighten (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.

Base Wire Enclosure Installation (cont.)

8. Place the power infeed, or other desired wires into the base wire enclosure (vertical), then position the cover of the base wire enclosure with the U-shaped opening face down as illustrated (Figure 3). Mate the cover to the wire enclosure, aligning the mounting holes of both. Using six #10 x 3/8" self-tapping screws, secure the base wire enclosure cover to the wire enclosure. Pull infeed through the enclosures, exiting at floor level (Figure 4).

   Note: If wire enclosure was installed to house 10-wire electrical, go now to page 53, step 6. If Pattern is housed, go now to page 67. If hardwire electrical is housed, go now to page 75, step 12.

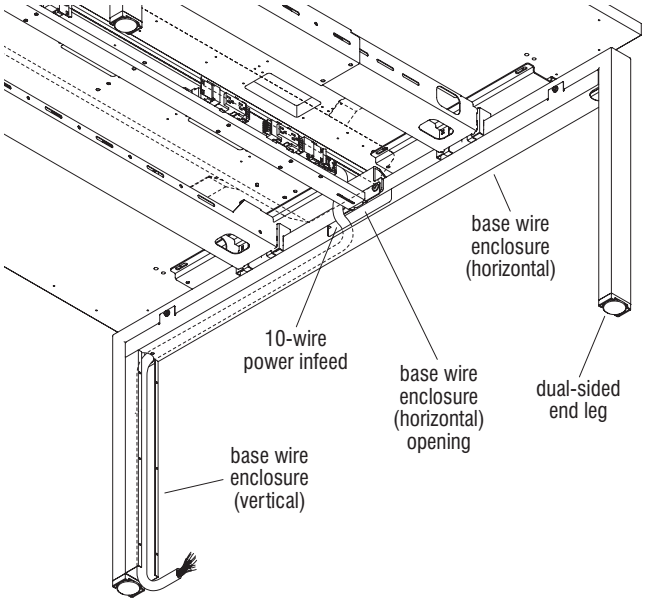


Figure 3

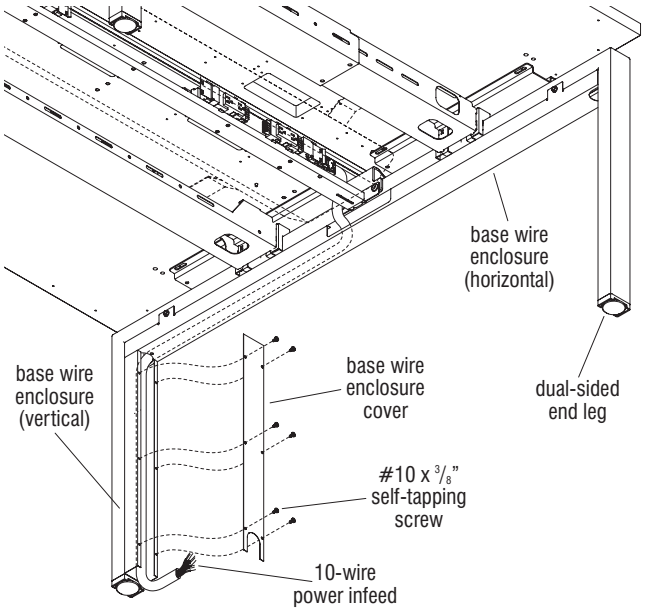


Figure 4

CAUTION

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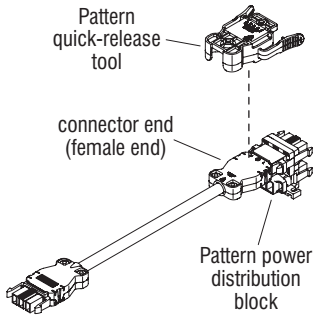


Figure 1

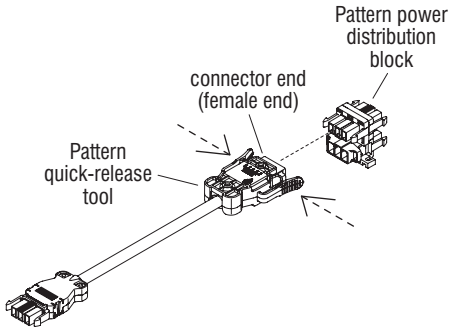


Figure 2

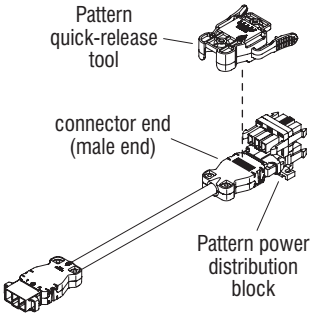


Figure 3

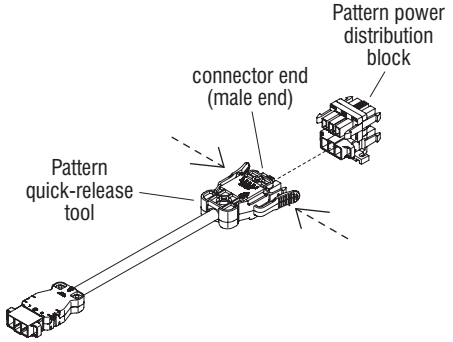
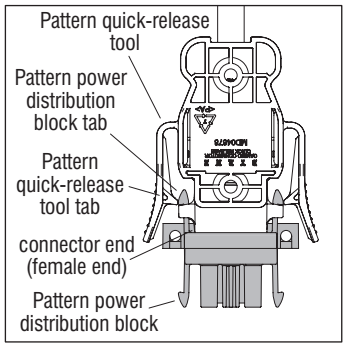
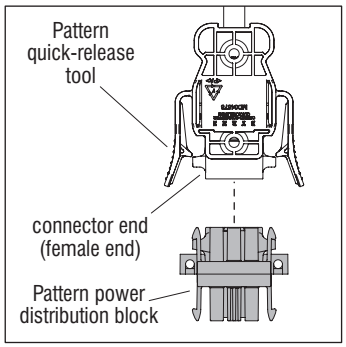


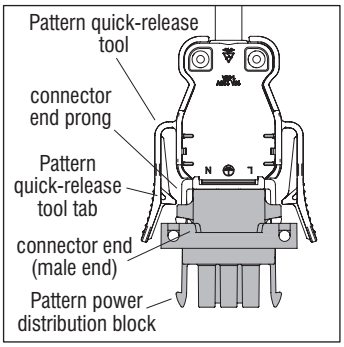
Figure 4



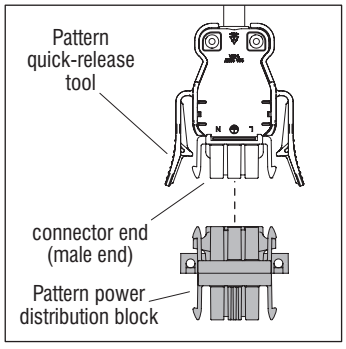
Detail A



Detail B



Detail C



Detail D

Pattern Quick-Release Tool

Note: The Pattern quick-release tool is a simple tool, designed to help remove the power infeed, power jumper & power module connector ends from the Pattern power distribution blocks. If on initial installation, or if the Pattern electrical system needs to be reconfigured due to table rearrangements, reference the following sections below based on the connectors that need to be removed.

Female Connector End

1. Snap the Pattern quick-release tool over the female end of the power module or power jumper connector end attached to the Pattern power distribution block (Figure 1).

2. The two Pattern quick-release tool tabs will align with the tabs of the Pattern power distribution block prongs. Squeeze the two Pattern quick release tool tabs together to push the two Pattern power distribution block tabs together, then pull the connector end out of the distribution block. Remove the quick-release tool from the connector end (Figure 2 & Details A & B).

Male Connector End

1. Snap the Pattern quick-release tool over the male end of the power infeed or power jumper connector end attached to the Pattern power distribution block (Figure 3).

2. The two Pattern quick-release tool tabs will align at the bottom of the connector end prongs. Squeeze the two Pattern quick release tool tabs together to push the two Pattern power distribution block prongs together, then pull the connector end out of the distribution block. Remove the quick-release tool from the connector end (Figure 4 & Details C & D).

CAUTION

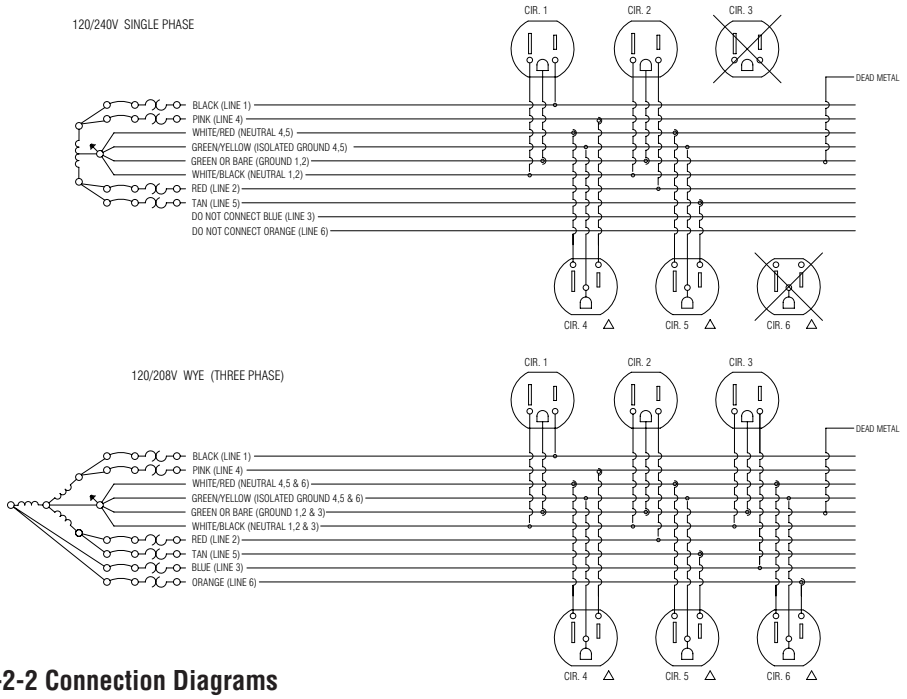
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

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

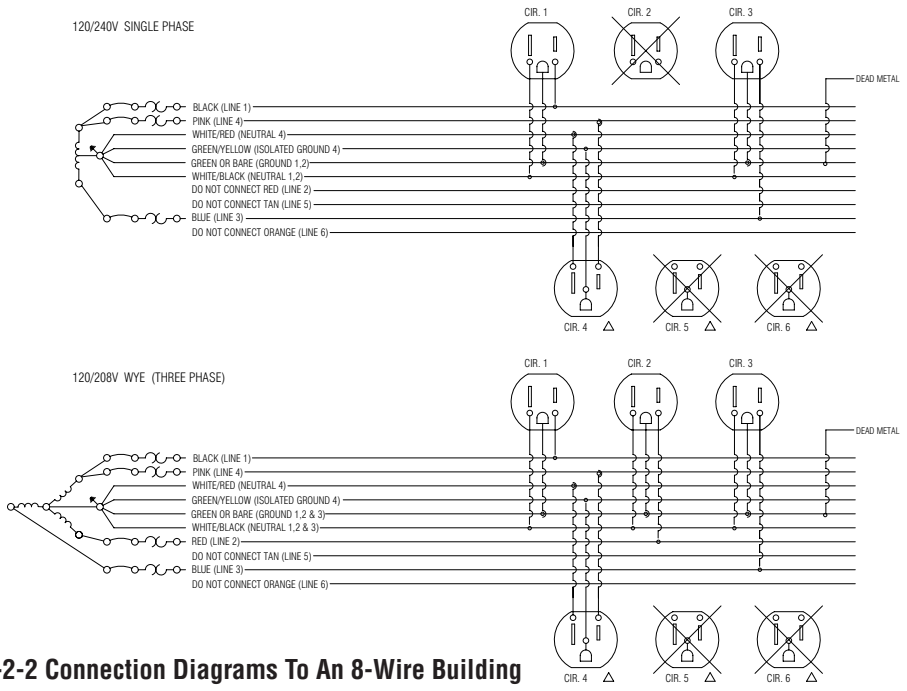
8-10 - Universal Wire Connection Diagrams

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

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



6-2-2 Connection Diagrams



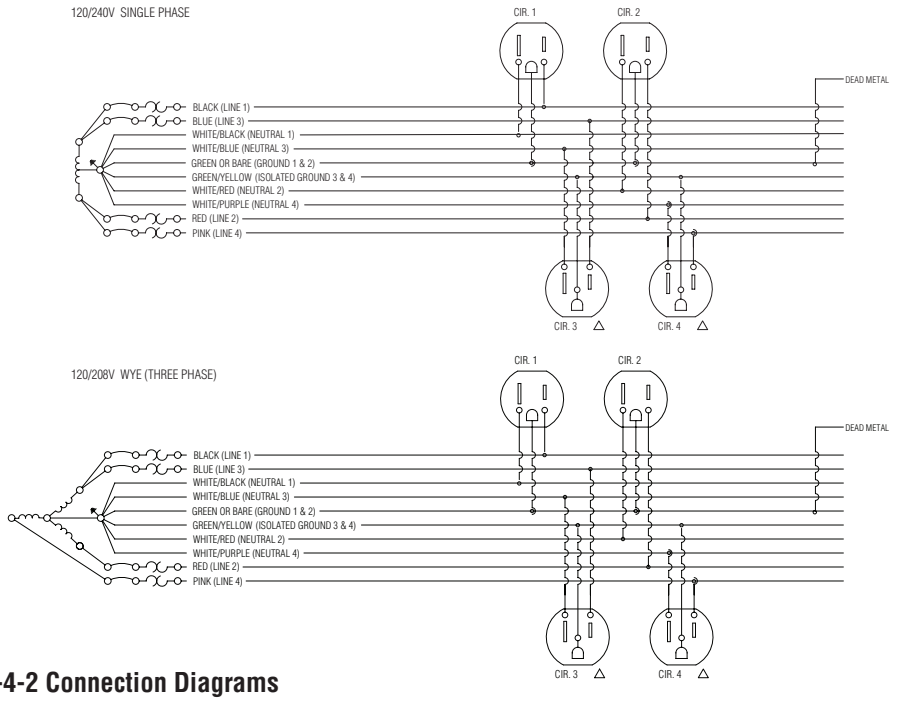
6-2-2 Connection Diagrams To An 8-Wire Building

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

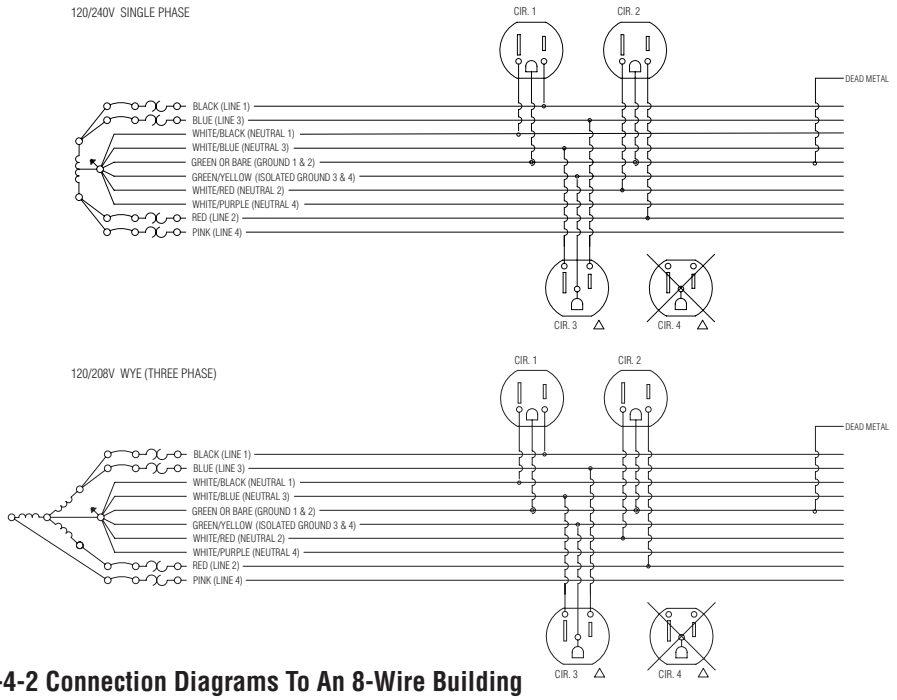
CAUTION

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.

8-10 - Universal Wire Connection Diagrams
Have a certified electrician hard-wire the panel power infeed to the building power source according to the National Electrical Code and any other applicable local codes. See the chart for proper wiring connection to available power.



4-4-2 Connection Diagrams



4-4-2 Connection Diagrams To An 8-Wire Building

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

CAUTION

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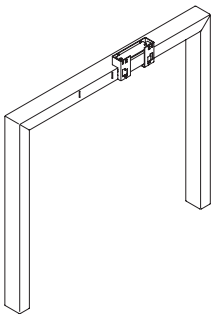
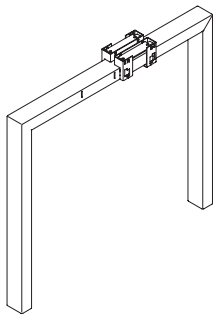
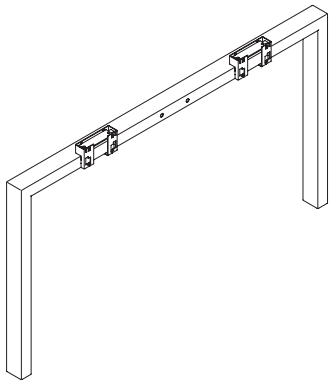


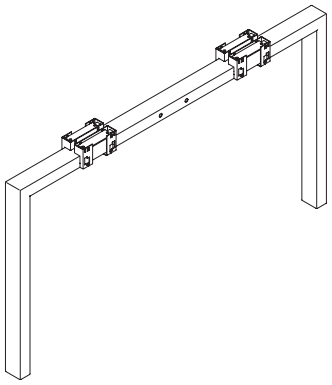
Single-Sided, End Leg
(51.5003.LH.XX - 30" shown)
(51.5003.RH.XX - 30")
(51.5001.XX - 24")



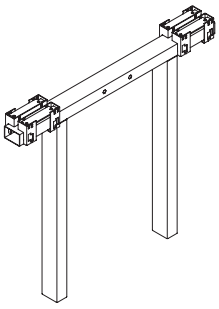
Single-Sided, Intermediate Leg
(51.5004.XX - 30" shown)
(51.5002.XX - 24")



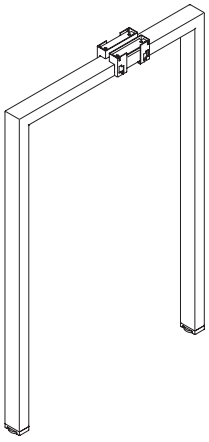
Dual-Sided, End Leg
(51.5011.XX - 48" shown)
(51.5013.XX - 60")



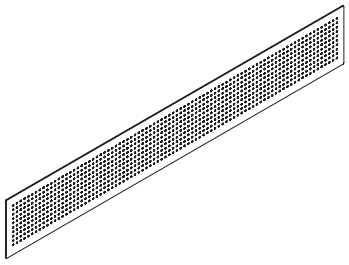
Dual-Sided, Conference End Leg
(51.5012.XX - 48" shown)
(51.5014.XX - 60")



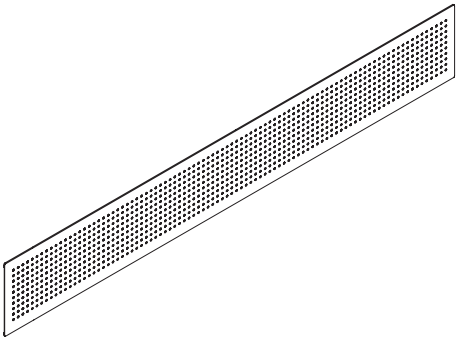
Dual-Sided, Intermediate Leg
(51.5007.XX)



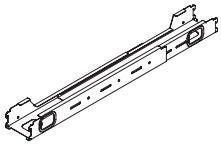
Café Height Leg
(51.5226.XX - 30" shown)
(51.5225.XX - 24")



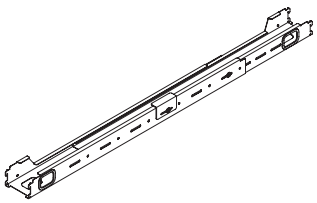
Modesty Panel
Standard Height (29")
(51.5036.SIZE.XX)



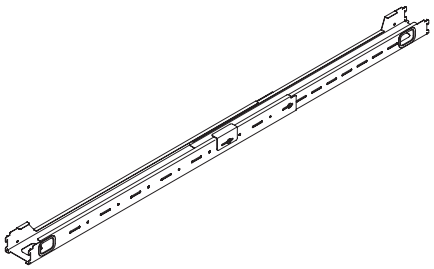
Modesty Panel,
Café Height (42")
(51.5263.SIZE.XX)



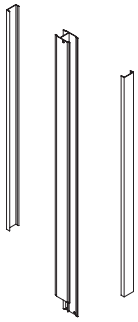
Beam Assembly 36" thru 42"
(51.5223.SET.XX)



Beam Assembly 48" thru 72"
(51.5020.SET.XX)



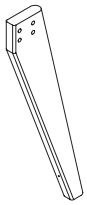
Beam Assembly 72" thru 96"
(51.5025.SET.XX)



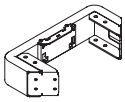
Aluminum Power Pole
Assembly
(51.5057.120.XX)

CAUTION

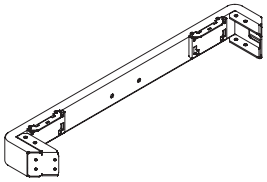
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.



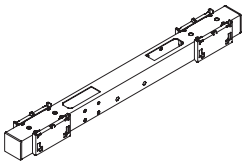
Wood Leg Upright
(51.5301.FINISH)



Single Beam Wood Leg Apron
(51.5302.XX)

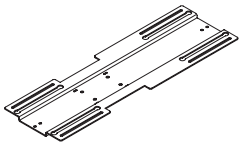


Dual Beam Wood Leg Apron
(51.5303.XX)

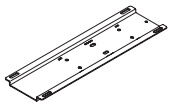


Intermediate Wood Leg Apron
(51.5304.XX)

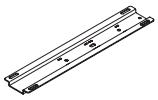
Wood Leg Glide
(51.5304.XX)



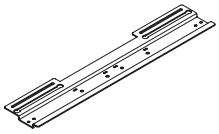
Worksurface Bracket,
Intermediate Sliding
24" (51.5031.XX)
30" (51.5033.XX)



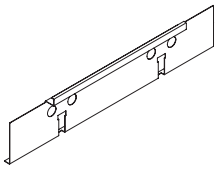
Worksurface Bracket,
Intermediate, Fixed
(24" or 30")
(51.5039.XX)



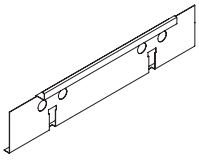
Worksurface Bracket,
End, Fixed
(24" or 30")
(51.5038.XX)



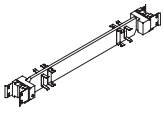
Worksurface Bracket,
End, Sliding
24" (51.5030.XX)
30" (51.5032.XX)



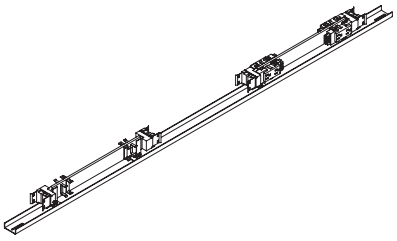
Power Access Door,
Standard Height (29")
(51.5043.SIZE.XX)



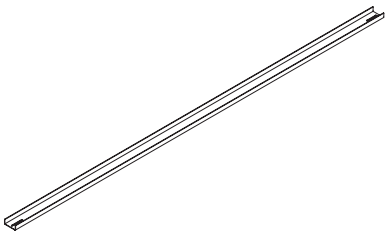
Power Access Door,
Café Height (42")
(51.5246.SIZE.XX)



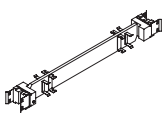
6-2-2 10-wire
Rigid Wireway
(49.0241.SIZE)



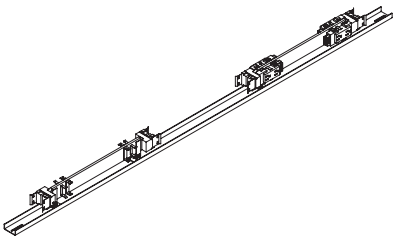
6-2-2 Wire Harness Assembly
(51.5040.SIZE.XX)



Channel, Wire Harness
(51.5042.SIZE.XX)



4-4-2 10-wire
Rigid Wireway
(49.2869.SIZE)



4-4-2 Wire Harness Assembly
(51.5135.SIZE.XX)

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.

Modesty Panel Bracket (left-hand) **(51.5037.LH.XX)**

Modesty Panel Bracket (right-hand) **(51.5037.RH.XX)**

Divider Bracket (fixed left-hand) **(51.5079.LH.XX)**

Divider Bracket (fixed middle) **(51.5219.XX)**

Divider Bracket (fixed right-hand) **(51.5079.RH.XX)**

Knife Edge Divider Bracket (fixed right-hand) **(51.5079.L.KN.XX)**

Knife Edge Divider Bracket (fixed middle) **(51.5219.KN.XX)**

Knife Edge Divider Bracket (fixed right-hand) **(51.5079.R.KN.XX)**

Divider Bracket (sliding left-hand) **(51.5078.LH.XX)**

Divider Bracket (sliding right-hand) **(51.5078.RH.XX)**

Knife Edge Divider Bracket (sliding left-hand) **(51.5078.L.KN.XX)**

Knife Edge Divider Bracket (sliding right-hand) **(51.5078.R.KN.XX)**

Privacy Screen Bracket (left-hand) **(51.5077.LH.XX)**

Privacy Screen Bracket (inline) **(51.5083.XX)**

Privacy Screen Bracket (right-hand) **(51.5077.RH.XX)**

Privacy Screen Bracket (single-middle) **(51.5218.XX)**

Lock Bracket **(51.5091)**

Dual-End Privacy Screen Bracket **(51.5076.XX)**

Dual-Inline Privacy Screen Bracket **(51.5088.XX)**

Dual-Intermediate Privacy Screen Bracket **(51.5090.XX)**

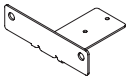
Screen Bracket Insert **(51.5089)**

Power Pole Support Bracket (single-sided, LH shown) **(51.5058.L.XX)** **(51.5058.R.XX)**

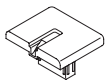
Wireway Mounting Bracket **(51.5044)**

Top Infeed Support Bracket **(51.5059.XX)**

Wood Leg Top Infeed Support Bracket **(51.5306.XX)**



Wireway Mounting Bracket **(51.5041.XX)**



Top End Cap (privacy screen) **(51.5072.XX)**

Bottom End Cap (privacy screen) **(51.5073.XX)**

Glide & Cap Assembly **(51.5019) Clear** **(51.5019.BL) Black** **(51.5019.WH) White**

60mm x 40mm Plug **(51.5018.BL)**

Top Trim Plate **(31.06.5015.XX)**

⅛ L-Plate, Fixed, 48-72 **(51.5034.XX)**
¼ L-Plate, Fixed, 72-96 **(51.5048.XX)**
⅛ L-Plate, Sliding, 48-72 **(51.5034.T.XX)**
¼ L-Plate, Sliding, 72-96 **(51.5048.T.XX)**

Clip, Divider To Privacy Screen **(51.5123)**

Divider Spacer **(51.5122)**

Hand Knob **(51.5017)**

CAUTION

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Link/Trim Strip **(51.5074.XXDorP)**
Link/Trim Strip with Screws **(51.5046.XXDorP)**

Sliding Top
Inserts Kit
(51.5035)

Rail-Mounting
L-Bracket
(51.5256.XX)

Dual Overhead
Mounting Plate
(51.5254.XX)

Single Overhead
Mounting Plate
(51.5253.XX)

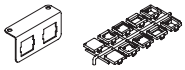
Beam Pocket
Cover
(51.5264.XX)

Rail End Cover
(51.5261.XX)

Conduit Strap
(51.5094.XX)

#14 x $^{3}/_{4}$" Screw,
Conduit Strap
(31.12.9078.XX)

Activ8
RPT bracket
(46.3364)



Data Bracket with
Data Adapter Plates
(51.5319)

Duplex Receptacle
(46.2880.1.BL)
(46.2880.2.BL)
(46.2880.3.BL)
(46.2880.4I)
(46.2880.5I)
(46.2880.6I)

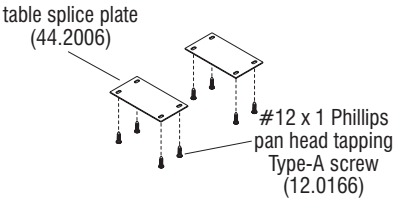
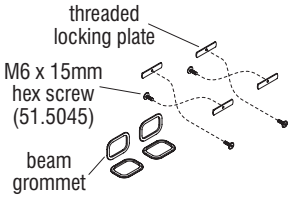


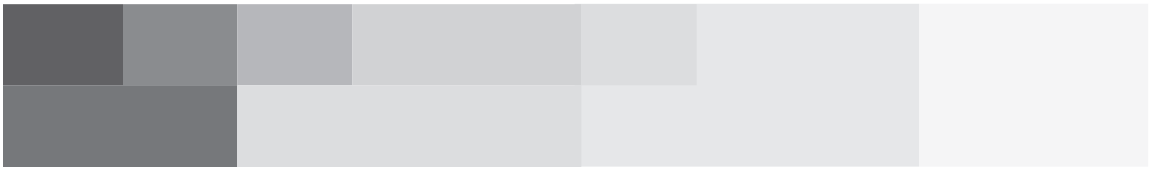
Table Splice Plate Kit
(CZBSPLICE)



Beam Splice Kit
(51.5024)

KI
1330 Bellevue Street
Green Bay, Wisconsin 54302
1-800-424-2432
www.ki.com

Code KI-62596R7/KI/PDF/1024



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