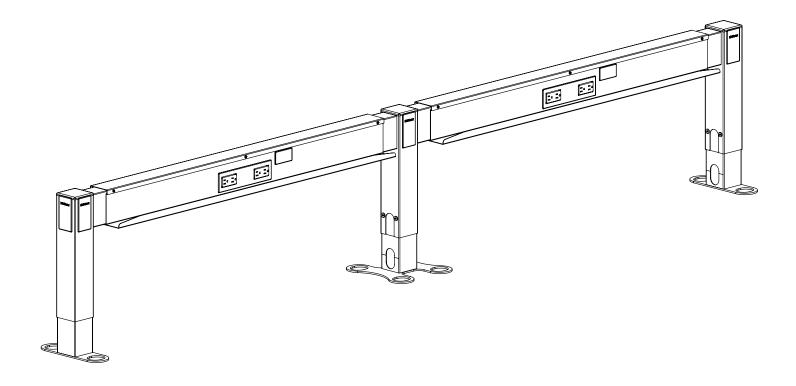
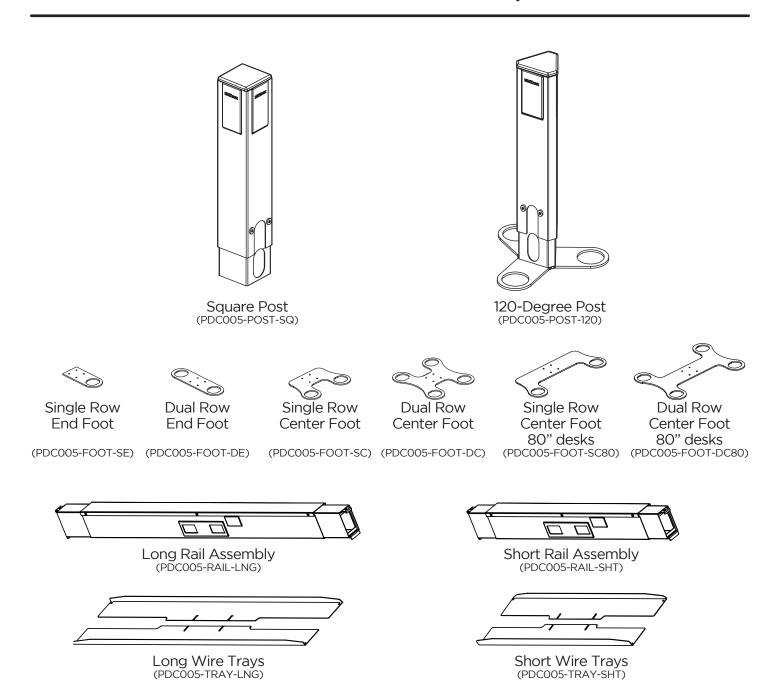
UPLIFT DESK® Power & Data Rail

Modular system for power and data solutions.





UPLIFT Power & Data Rail Components





(PDC005-TRAY-SHT)

(Privacy Panels shipped separately)

All components to make any configuration available on upliftdesk.com Part numbers in parenthesis indicate how components are separated and shipped.

UPLIFT Power and Data Rail

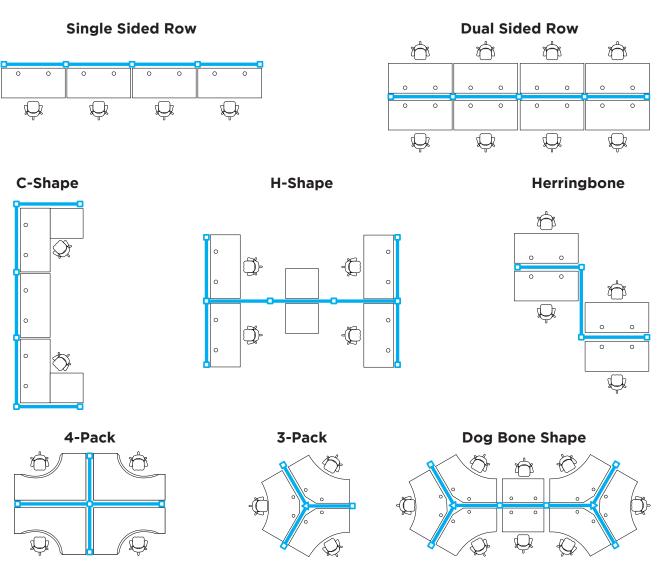
Comprised of customizable features you won't find on any other power rail solution, our patent-pending Power and Data Rail is the most capable and flexible solution for open office environments. Use wherever access to power outlets is limited and eliminate cable clutter and the need for extension cords.

The Power and Data Rail was designed to position UPLIFT V2 and V2-Commercial desks with consistent alignment and spacing throughout your floor plan, but you can use it with virtually any desk.

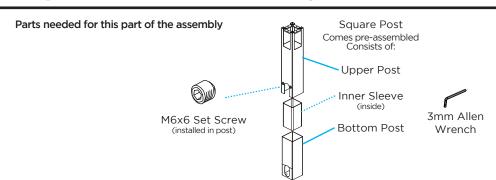
The Power and Data Rail accepts both Byrne 8-Trac or Dekko 8-Wire UL recognized electrical components. Both of these electrical systems offer quick-connect components for fast and simple installation. Connect up to 4 desks with the plug-in power infeed or 16 desks with the hardwire power infeed.

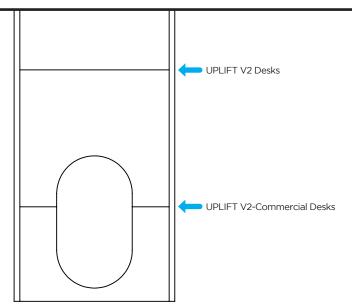
Note: A licensed electrician is required for connection of the hardwire power infeed cables.

Serving as a central spine in a group of benched workstations or a border around other configurations, the Power and Data Rail allows you to provide power and data to the following common configurations and many more.



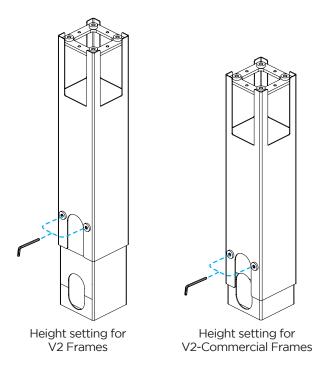
Square Post Assembly





Step 1

- A. The posts are designed with recommended height setting indicator lines on the Bottom Post for UP-LIFT V2 and UPLIFT V2-Commercial desks. Using the included 3mm Allen Wrench, loosen the the two M6x6 Set Screws so the Upper Post can slide.
- B. If you are using the Power and Data Rail with UP-LIFT V2-Commercial desks, slide the Upper Post until the bottom edge is aligned with the first indicator line. For UPLIFT V2 frames, slide the Upper Post to the second indicator line.



C. Once in place, tighten the Set Screws again and continue this process with the rest of your Posts.

Square Post Foot Selection & Assembly

Parts needed for this part of the assembly



Dual Row End Foot

Single Row Center Foot

Dual Row Center Foot

Single Row Center Foot

Dual Row Center Foot





(atv 1)

(atv 1)

(atv 1)

(atv 1)

80" desks (qty 1)

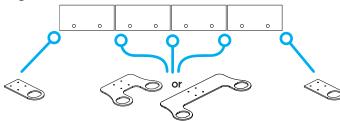
80" desks (atv 1)

Head Screw

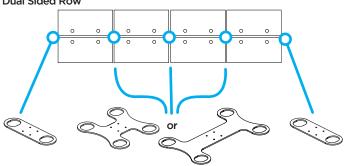
(atv 4)





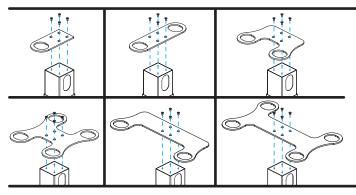


Dual Sided Row



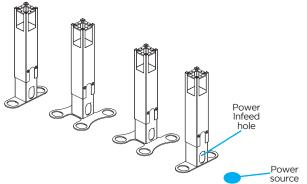
Step 1

- A. The Square Post Feet are designed for Single Sided or Dual Sided Row configurations as shown in the diagrams.
- B. Regardless of the length of the row of desks, if you are using UPLIFT V2 and UPLIFT V2-Commercial desks, the end posts in the run will require End Feet. The remainder of the posts in the middle of the row will use Center Feet. Use Foot part numbers ending in either -SC or -DC for UPLIFT Desks less than 80" wide. Use foot part numbers ending in either -SC80 or -DC80 for 80" wide UPLIFT Desks.
 - Important note: The large holes in each of the Feet are designed to accept the leveling glides at the back of the UPLIFT V2 and UPLIFT V2-Commercial desk feet. This patent-pending feature helps to keep your desks aligned and spaced properly.
 - · For any non-UPLIFT V2 desks, we recommend using End feet with ALL posts as the larger Center feet may interfere with the feet of other desk styles.



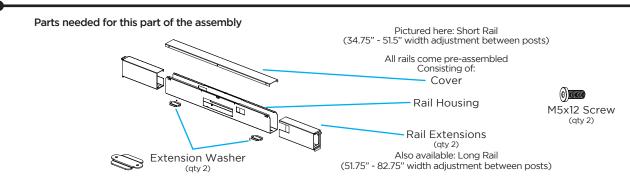
Step 2

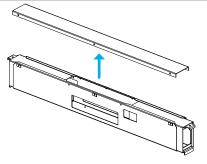
- A. Use the M5x10 Flat Head Screws that were included with each post to attach the feet as shown to the bottom of each post assembly. The oval power infeed hole should be facing to the left or right of the foot. This way the holes will be below the rails.
- B. Hand tighten each screw a few turns at first. Once all screws are started, tighten them with the included 3mm Allen Wrench.



- A. Position posts approximately where they will be located once the Power and Data Rail assembly is complete.
- B. We recommend locating one of the end posts in close proximity to the power outlet (for plug-in power infeeds) or the junction box (for direct-wire power infeeds) with the Power Infeed hole facing the power source.
- C. After the legs are generally where they need to be. move on to the Assembly sections.

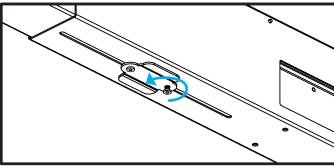
Assembly - Linear Configurations





Step 1

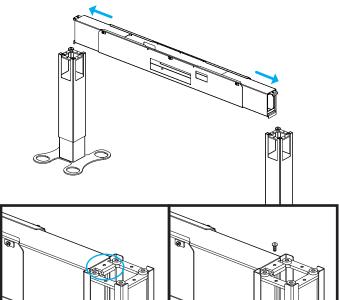
- A. The Covers are not attached with screws during shipment. Remove the Covers from each of the Rail assemblies and set them aside for later.
- B. Remove the hardware and other components from inside the Rail assemblies and set them aside for later also.



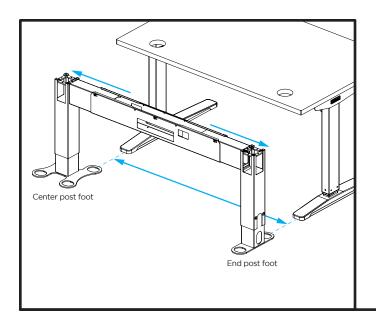
Step 2

Turn each Rail assembly over and loosen the two screws in each of the Extension Washers using the 3mm Allen Wrench. Do not remove the screws completely.

• **Note:** This will allow the Rail Extensions to slide in and out of the Rail Housing.



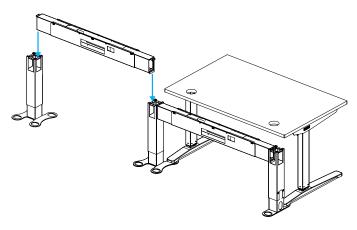
- A. Move one of the Rail assemblies to the first two Posts in your configuration. Slide the Rail Extensions in or out as needed so that they can be hung on the Posts.
 - **Note:** Be sure that the upper and lower tabs on each Rail Extension are hooked over each Post top and opening as shown.
- B. Attach each Rail Extension to each Post with an M5x12 Machine Screw and tighten using the 3mm Allen Wrench.



Step 4

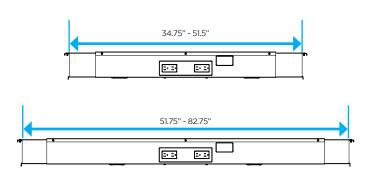
Move an UPLIFT V2 desk up to your first Rail and Post assembly. Slide the Posts in or out to align the holes in the Post feet with the leveling glides in the back of the desk feet as shown. Then, lift the desk slightly on each side and set the desk glides into the Post feet holes.

- If you are assembling a Dual Sided Row configuration, we recommend placing the desks on the opposite side of the Power and Data Rail after all the electrical components have been installed and the assembly is complete.
- If you are not using UPLIFT V2 desks, slide the Posts until the Rail assembly is about the same length as the desktop and the Posts sit outside both sides of the desk. You'll want a 4 inch gap between sides of desktops



Step 5

- A. Continue adding Posts and Rail assemblies down the row following Steps 3 and 4 above until all of the Rail assemblies are attached to the posts.
- B. Then continue to move your UPLIFT V2 desks into place, locating the desk feet glides into the Post feet holes.
 - Note: If you are assembling a Single Sided Row along a wall, once all of the Posts are aligned with the desk glides move the desks away from the Rail again. This will make the rest of the assembly much easier.



Short and Long Rail Lengths

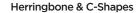
Rail lengths needed are determined by the desk dimensions. As a general rule, the length of the rail should be the same length as the desktop it is being placed adjacent to. This will create a gap of about 4 inches between desktops.

Rail measurements are taken from the furthest ends of the Rail Extensions where the Rail meets the inside of the Post. See diagrams to the left.

- Short Rails have a length adjustment range of 34.75" to 51.5" (16.75" range) and are used with UPLIFT 42", 48", and 120-degree desks.
- Long Rails have a length adjustment range of 51.75" to 82.75" (31" range) and are used with UPLIFT 60", 72", and 80" desks.

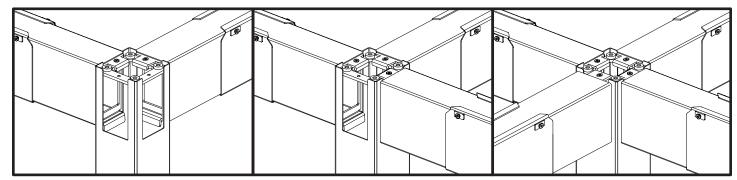
Assembly - Non-Linear Configurations

For non-linear configurations such as the C-Shape, H-Shape, 4-Pack, and Herringbone Shape, you will be connecting Rail assemblies to other sides of the Square Posts. Follow the same Rail Extension attachment process as shown in the section "Assembly - Linear Configurations" Page 6, Step 3.

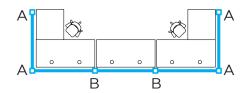




4-Pack



The type of feet used in non-linear configurations are dependent upon the type of desks used and where the desk feet glides are.



C

C-Shape



Use Single Row End Feet at "A" locations, facing inward.



Use Single Row Center Feet (PDC005-F00T-SC, or PDC005-F00T-SC80) at "B" locations, facing inward.

H-Shape



Use Single Row End Feet at "A" locations, facing inward.



Use Single Row Center Feet (PDC005-FOOT-SC, or PDC005-FOOT-SC80) at "B" locations, facing inward.



Use Dual Row End Feet at "C" locations, perpendicular to the rails.

Herringbone



Use Dual Row End Feet at "A" locations.



Use Single Row Center Foot (PDC005-FOOT-SC) at "B" locations, facing the desks.

4-Pack



Use Dual Row End Feet at "A" locations.



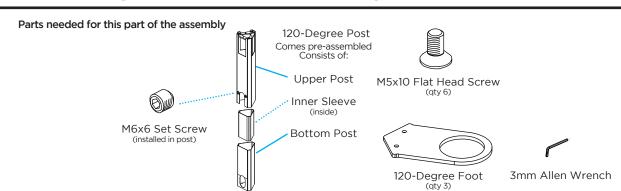
Use a Dual Row Center Foot (PDC005-FOOT-DC) at the center location, "B."

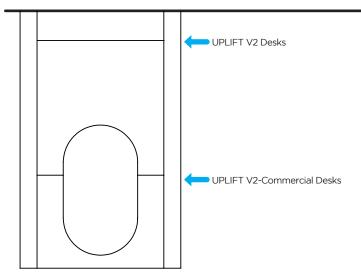


В

B

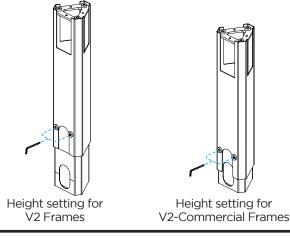
120-Degree Post Assembly



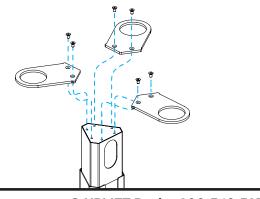


Step 1

- A. The posts are designed with recommended height setting indicator lines on the Bottom Post for UP-LIFT V2 and UPLIFT V2-Commercial desks. Using the included 3mm Allen Wrench, loosen the two M6x6 Set Screws so the Upper Post can slide.
- B. If you are using the Power and Data Rail with UP-LIFT V2-Commercial desks, slide the Upper Post until the bottom edge is aligned with the first indicator line. For UPLIFT V2 frames, slide the Upper Post to the second indicator line.



C. Once in place, tighten the Set Screws again and continue this process with the rest of your posts.

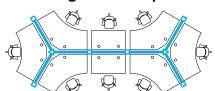


- A. Using six M5x10 Flat Head Screws, attach the 120-Degree Feet (two screws per foot) as shown to the bottom of each post assembly.
- B. Hand tighten each screw a few turns at first. Once all screws are started, tighten them with the included 3mm Allen Wrench.

Assembly - 3-Pack & Dog Bone Configurations

3-Pack

Dog Bone Shape

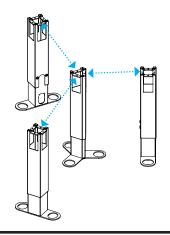


Step 1

Determine if you will be using the 3-Pack Configuration, or the Dog Bone Shape Configuration.

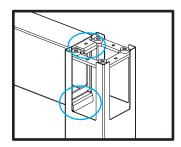
3-Pack Configuration: If you are just putting together three 120 Degree desks, follow the instructions in Steps 2 - 4 on this page.

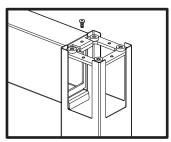
Dog Bone Shape Configuration: If you want to put together two 3-packs and two rectangular desks, skip Steps 2 - 4 and follow Steps 5 - 7 on page 11.



Step 2 (3-Pack Configuration)

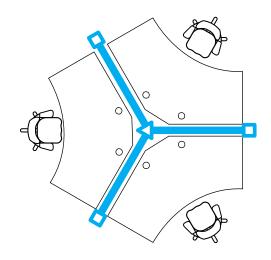
- A. For the 3-Pack Configuration, you will need one 120-Degree Post and three Square Posts. Position them as shown to the left approximately where they will be located once the Power and Data Rail assembly is complete.
- B. Power Infeeds can be introduced through the 120-Degree Post or any of the Square Posts. Locate the Power Infeed Post close to the power outlet (for plug-in power infeeds) or the junction box (for hardwire power infeeds) with the Power Infeed hole facing the power source.





Step 3 (3-Pack Configuration)

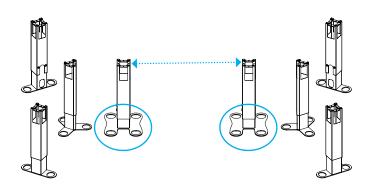
Attach the Rails following the instructions in the section "Assembly - Linear Configurations" Page 6, Step 3.



Step 4 (3-Pack Configuration)

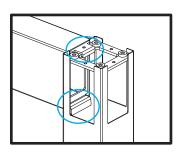
When assembled, the 3-Pack configuration will accommodate three 120-degree desks. Adjust the Rail lengths so that they are flush with end of the desks as shown. This will put the Square Post in the proper location for converting into a Dog Bone configuration later if desired. Position the desks as shown.

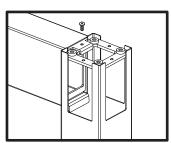
- If you are using UPLIFT V2 desks, the Rail lengths should be adjusted to 42.25" between the 120-Degree and Square Posts.
- Note: We highly recommend using our Desk Benching System for V2 Desks (FRM028) with 120-Degree desks to create consistent spacing between the desks.



Step 5 (Dog Bone Shape Configuration)

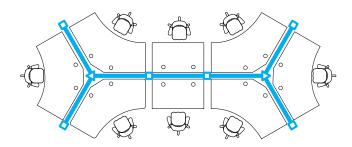
- A. For the Dog Bone Shape Configuration, you will need two 120-Degree Posts and six Square Posts.
 - Note: two of the Square Posts will need to have Dual Row Center Feet (PDC005-F00T-DC, circled). If the desks being used are not UPLIFT V2 Desks, we recommend using Dual Row End Feet like the other Posts.
 - Position the Posts as shown to the left and approximately where they will be located once the Power and Data Rail assembly is complete.
- B. Power Infeeds can be introduced through the 120-Degree Post or any of the Square Posts. Locate the Power Infeed Post close to the power outlet (for plug-in power infeeds) or the junction box (for hardwire power infeeds) with the Power Infeed hole facing the power source.





Step 6 (Dog Bone Shape Configuration)

- A. Assemble the 3-Pack configurations per the instructions in the previous section. Attach the Rails following the instructions in the section "Assembly Linear Configurations" Page 6, Step 3.
- B. Then move your Rails for the rectangular desktops into place between the 3-Packs and adjust the Rail length following the instructions on Page 7, Step 4.



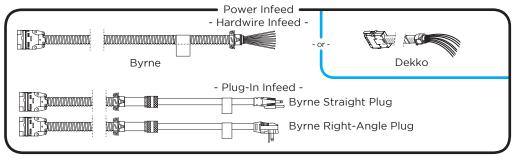
Step 7 (Dog Bone Shape Configuration)

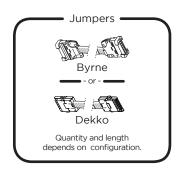
When assembled, the Dog Bone Shape Configuration will accommodate six 120-degree desks and two rectangular desks in the middle.

- If you are using UPLIFT V2 desks, the Rail lengths should be adjusted to 42.25" between the 120-Degree and Square Posts.
- Note: We highly recommend using our Desk Benching System for V2 Desks (FRM028) with 120-Degree desks to create consistent spacing between the desks.

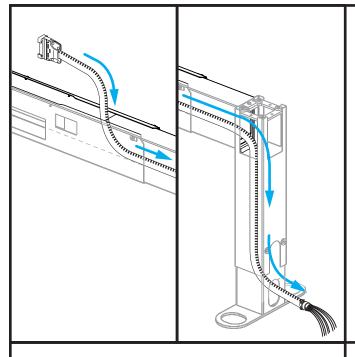
Electrical Assembly

Parts needed for this part of the assembly



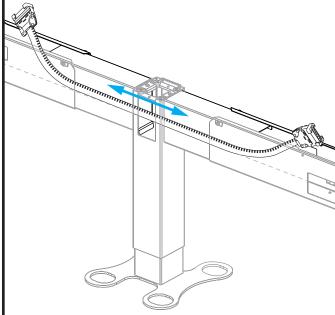


Available Lengths of Power Infeed & Jumpers: between 12 and 1800 inches

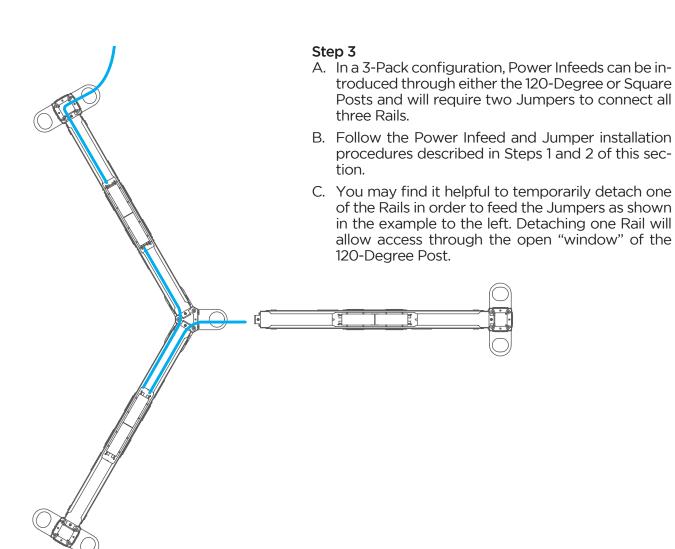


Step 1

- A. Standard Power Infeeds are 72" long, but can be ordered longer if needed. Keep the Power Infeed length and power source location in mind when planning your space. There will be about 36.5" of the infeed coming out of the post if you are building a row of 42" desks but only 21.5" for a row of 72" desks.
- B. Run your Power Infeed, in the orientation shown, from the middle of the Rail, through the Rail extension and down the Post that is nearest to the Power source. Lift up the plastic Inner Sleeve that is covering the Power Infeed hole and pull out the end of the Power Infeed.

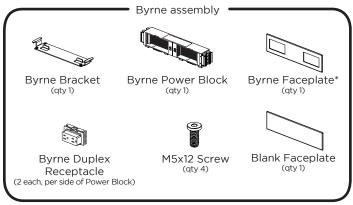


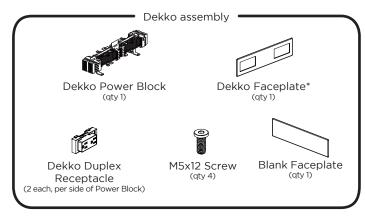
- A. As a rule of thumb, required Byrne Jumper length equals the distance between the midpoints of two Rails, minus 10.25". Feed the appropriate length Jumper from the middle of one Rail, through the Rail extension, Post, and next Rail extension to the middle of the next Rail.
- B. Continue on until all of the Jumpers are in place within the Power & Data Rail assembly.



Installing Power Components

Parts needed for this part of the assembly

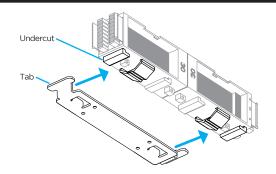




*Byrne Faceplates are marked on the back with a "B"

*Dekko Faceplates are marked on the back with a "D"

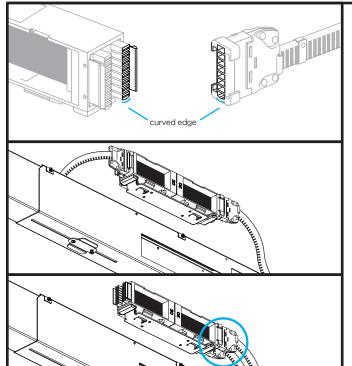
These instructions will cover the installation of Byrne components. Dekko component installation is similar but the Bracket is replaced with four L-brackets that are pre-installed on the Dekko Power Block.



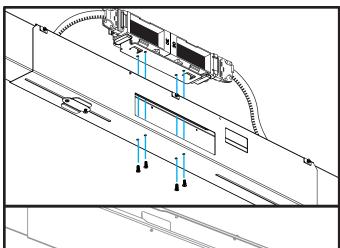
Step 1

Slide the Byrne Bracket onto the bottom of the Byrne Power Block in the orientation shown so that the Bracket "tabs" slide into the "undercuts" on each end of the Power Block.

 You should hear a "click" when the Bracket is completely in place and centered underneath the Power Block.

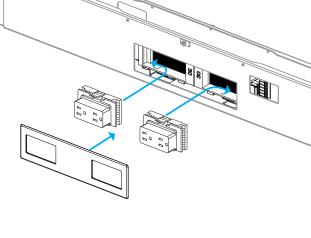


- A. You will notice that the Jumpers and Power Blocks have a "curved edge" towards the bottom side indicating orientation for connection. Make sure these are aligned.
- B. With the Power Block and Bracket assembly in the orientation shown, and still outside of the Rail, connect a Jumper to one end.
 - Pull back on each cable after connection to Power Block to ensure they are completely locked in place.
- C. There are two Jumper connection points on each end of the Power Block. You can use either one or both as needed per your configuration. Connect the Jumper(s) to the other end of the Power Block. With short Rails, it may help to slide one of the Rail Extensions out a bit to give yourself more room.



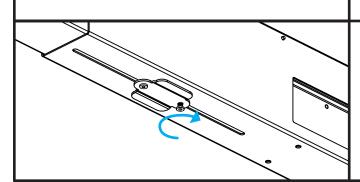
Step 3

- A. Carefully insert the Power Block and Jumper assembly down into the Rail Housing, tilting it slightly to the front or back side of the Rail to get it through the opening at the top.
- B. Once in place, attach the Power Block from the bottom of the Rail Housing using four M5x12 Screws. Tighten using the 3mm Allen Wrench, but be careful not to over tighten to avoid stripping.
 - **Note:** If you are planning to attach optional Wire Trays, do not tighten these screws all the way.



Step 4

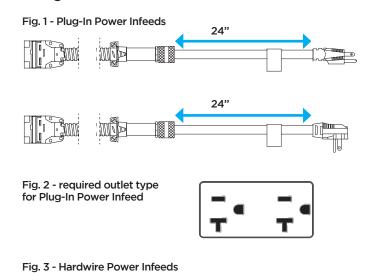
- A. Byrne Duplex Receptacles are keyed to install one way, make sure the "tab" on each Receptacle is facing up. Insert each Receptacle into one of the cavities in the Power Block and slide it outwards to lock it in place.
 - Pull back on the Receptacles to ensure they are locked in.
- B. Snap a Faceplate into the opening and around the Receptacles and repeat these steps for the remaining Power Blocks.
 - If one side of the Rail is not receiving Receptacles, cover the opening with the included Blank Faceplate.



Step 5

Once all of the electrical components are installed and connected, tighten all of the Rail Extension Washer Screws using a 3mm Allen Wrench, but do not over tighten to avoid stripping.

Electrical Wiring



Power Infeeds

The recommended electrical system for the UPLIFT Power and Data Rail is the Byrne 8-Trac System. However, we have also designed the Power and Data Rail to accept the Dekko 8-Wire System. This can help prevent any delays if one of those two suppliers is experiencing long lead times.

The first type of power infeeds for the UPLIFT Power and Data Rail is the Plug-In Infeed (see fig.1) which plugs into either a wall outlet or a floor outlet and can be installed by anyone. Plug-in feeds are supplied by a single 20 amp circuit that typically supplies your office wall outlets.

Outlets for Plug-in Power Infeeds must be 20 amp type configuration (see fig.2) to maintain UL in order to maintain UL listing. Do not use plug adapters to plug infeed into a 15 amp type outlet.

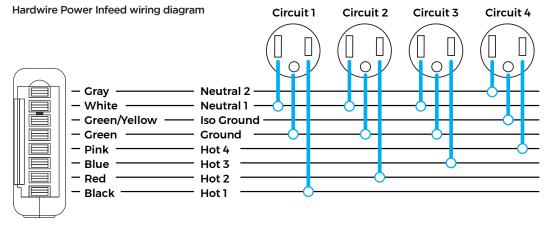
The second type of Power Infeed is the Hardwire Infeed (see fig.3). The hardwire infeed connections must be made by a licensed electrician.

IMPORTANT:

All hard wired electrical connections must be made by a licensed electrician. Refer to all warnings at the beginning of this manual.

The Power Infeed accommodates up to four 20 amp circuits and consists of four line conductors, two neutrals, and two grounds. Per National Electrical Code (NEC) requirements, up to 13 duplex receptacles may be used per circuit, with a total of 52 available receptacles if all four circuits are used. The line conductors are 12 AWG, and share a 12 AWG ground and a 10 AWG neutral conductor. The fourth circuit is isolated and dedicated and is serviced by its own line, neutral, and isolated ground conductors. The Byrne 8-Trac System can be wired in both single and three-phase configurations, 240/120V, 208/120V respectively (see Byrne 8-Trac wiring diagram below).

This power rail system utilizes (4) circuits; (3) for general purpose that share a common neutral and ground, and (1) circuit that has a dedicated neutral and ground. This dedicated circuit is sometimes used as the "computer" circuit since it does not share a neutral conductor, thereby reducing the chance for electrical noise originating from other loads that may be plugged in. But many users plug their computers into any of the 4 circuits without issues. Byrne duplex receptacles are marked as 1, 2, 3, and 4. Receptacles marked 1, 2, and 3 connect to the three general purpose circuits and the receptacle marked 4 connects to the dedicated circuit. IF you optionally choose to only plug computers into the dedicated circuit you may need to use additional power infeeds and an electrical designer can help with this - as a general rule, you can assume 250W (2.08A) for each computer receptacle and 180W (1.5A) for each general purpose receptacle when calculating for each 20A circuit.



Installing Data Components

Parts needed for this part of the assembly



Data Cable Hanger (qty 2)



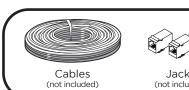
Blank Plate (qty 2, optional)

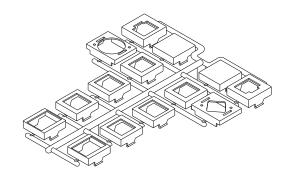


Data Plate (qty 2, optional)



Data Plate Adapter Kit (qty 2, optional)



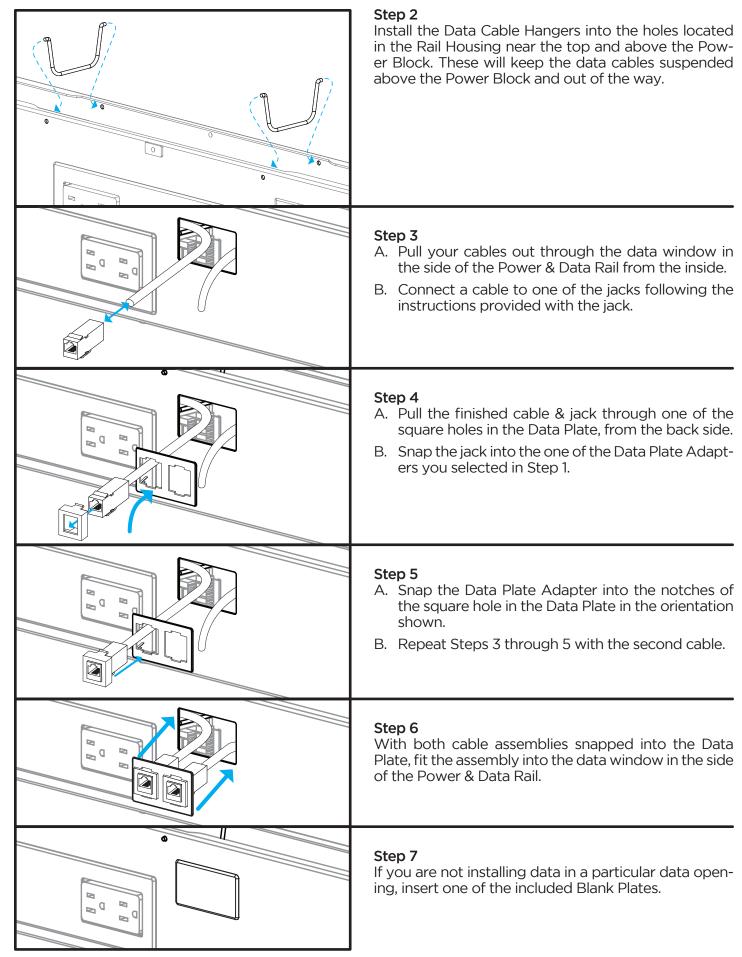


Step 1

- A. If you are running data cables, UL Listed (DUXR) or Recognized (DUXR2) jacks are required. Jacks and cables are not included.
- B. Pick the Data Plate Adapter which will fit your jack from the kit provided. The Double-letter code is stamped on the back of each piece.

Adapter		Manufacturer	Website
	AA	Systimax/CommScope	www.Commscope.com/Systimax
		Uniprise/CommScope	www.Commscope.com/Uniprise
	вв	L-Com Keystone Modular	www.L-Com.com
		NETCONNECT, and 110 Connect Series Modular Jack	www.Anixter.com
		Siemon ZMAX Style	www.Siemon.com
		Allen Tel Versa Tap Series	www.Graybar.com
		Leviton Quick Port® Series	www.Leviton.com
		Belden REVconnect	www.Belden.com
	СС	Hubbell Nextspeed™ Keystone Series	www.Hubbell-premise.com
	DD	Blank (no coupler/jack)	-
	EE	Ortronics TracJack Series	www.Ortronics.com
	FF	Panduit Mini-Com Series	www.Panduit.com
	GG	Microphone Jack/3-pin XLR, solder type only	www.Byrne.com
	НН	Video Monitor Jack/DB-15, panel mount solder style	www.Byrne.com

Note: Please verify fit of jack in adapter before ordering large quantities as manufacturer designs may change without notice.



Finishing your assembly

Parts needed for this part of the assembly



M5x6 Screw (qty 6 per cover)

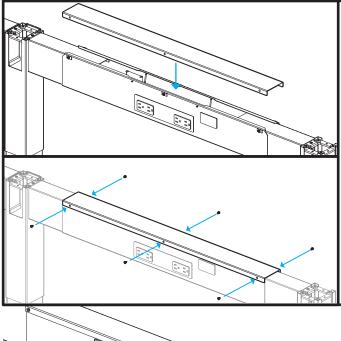




3-Way Post Cap

(qty 1 per post)

(qty 1 per post)



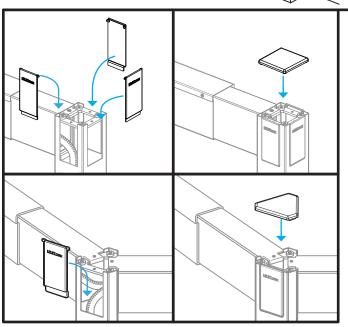
Step 1

- A. Place the Rail Covers on the Rail Housings and align the holes in each part.
- B. Install the six M5x6 Screws and tighten using the 3mm Allen Wrench, but do not over tighten to avoid stripping.
 - If you are installing Privacy Panels on top of the Rails, install only two of the M5x6 Screws in the center of the Rail Cover and refer to the instructions that came with the Privacy Panel Brackets.





If you're installing Wire Trays, refer to the instructions that come with the Wire Travs.



- A. Install Post Plates into the openings at the tops of each Post where Rails are not attached by sliding them into place from the top down. The Post Plates have a lip at the bottom and two small clips at the top which hold them to the post.
- B. Finally, press the Square and 120-Degree Post Caps onto the tops of each Post by aligning the pegs on the caps with the holes in the top of the Posts.

UPLIFT DESK®

512-614-3152 800-349-3839 info@upliftdesk.com upliftdesk.com

SAVE THESE INSTRUCTIONS

Study this manual carefully. If this desk is sold, please provide this manual to the buyer, installers, or support personnel operating the product.

Copyright Notice: This guide is a component of this UPLIFT Desk Product. This guide is a part of the scope of delivery, even if the item is resold. This guide is also available on the UPLIFT Desk website: upliftdesk.com. Excerpts or copies may not be forwarded to third parties or used in any other published form without the prior written consent of UPLIFT Desk. These instructions are subject to United States copyright law.

