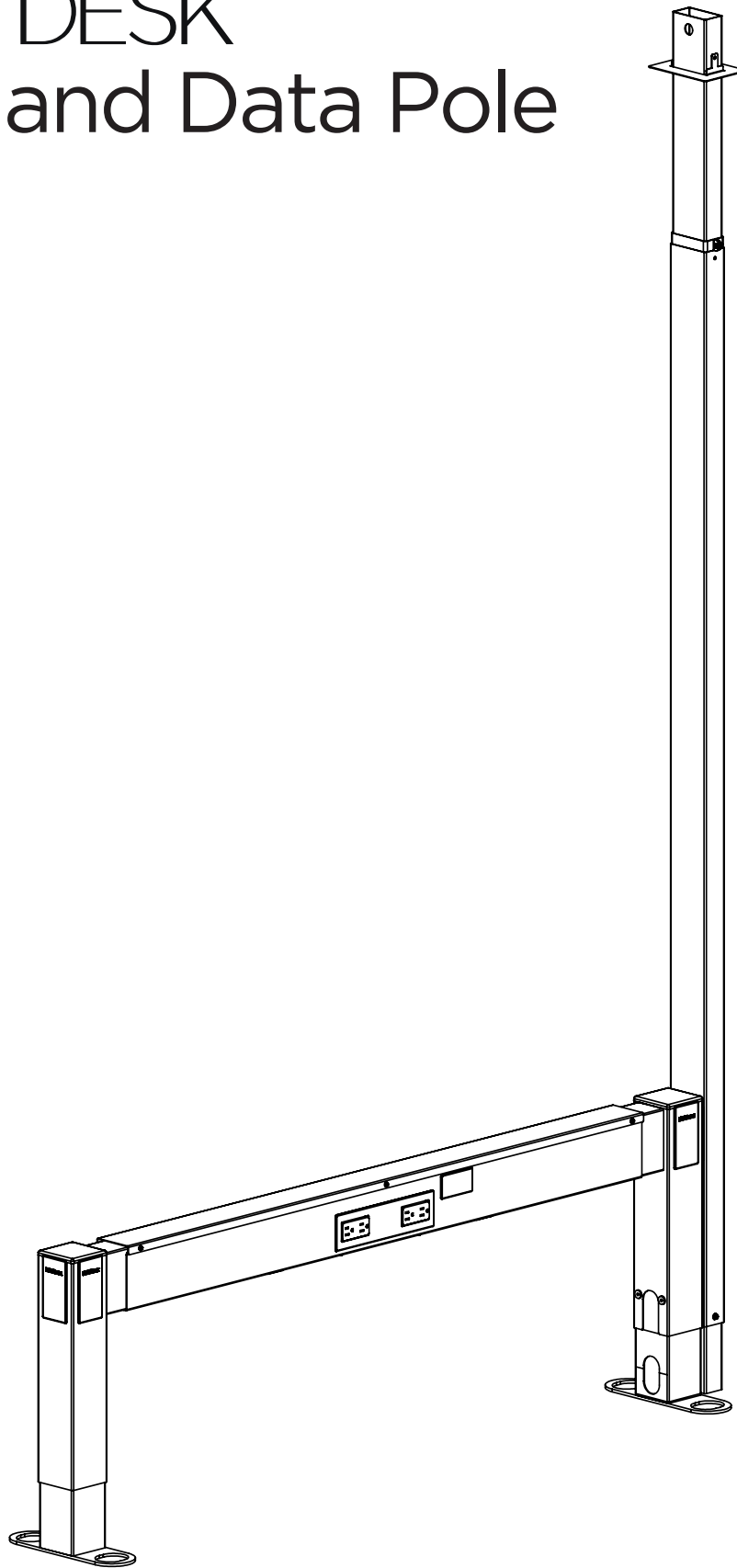


# UPLIFT DESK®

## Power and Data Pole



For further info or assistance, visit [upliftdesk.com](https://upliftdesk.com)  
call 800-349-3839 or email [support@upliftdesk.com](mailto:support@upliftdesk.com)

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two person  
assembly



Thank you for choosing **UPLIFT Desk**.

## SAFETY AND WARNINGS



**WARNING:** Designed for use in dry work environments only. Risk of fire, electric shock, or personal injury if used outdoors or in a damp location. Use only indoors.



**WARNING:** To reduce the risk of burns, fire or electric shock, hard wiring of power infeed cables must be performed by a licensed electrician only in accordance with the NEC and local codes. All connections must be properly grounded.



**WARNING:** Use this system only as described in these instructions and do not use with any components not recommended by the manufacturer.



**WARNING:** Do not open any component or insert any object in a component. Risk of electric shock.



**WARNING:** Never operate this product if there is visible damage to the cables or connections, if it is not working properly, or if any part of it has been exposed to water or other liquids.

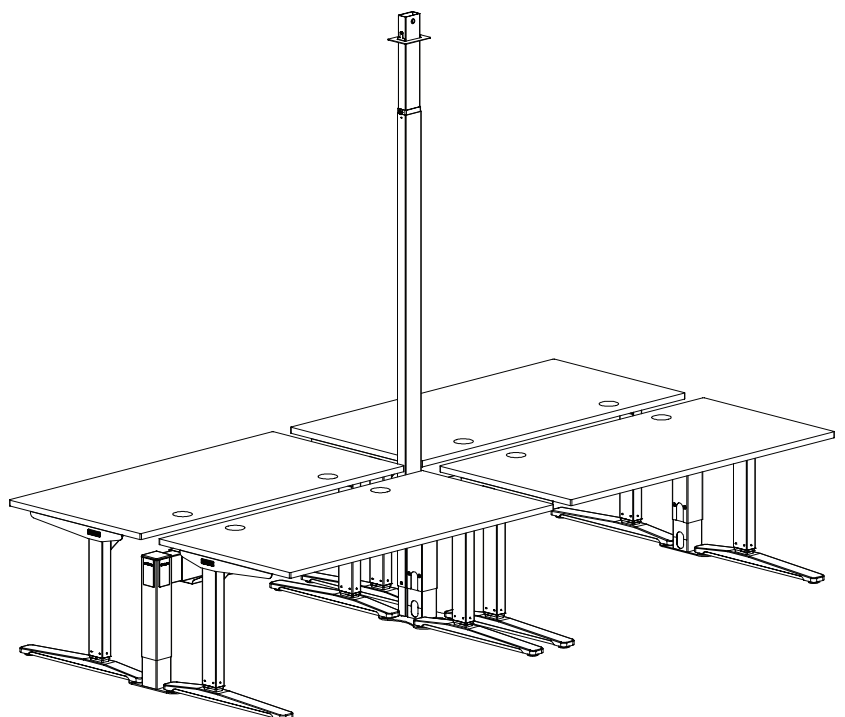
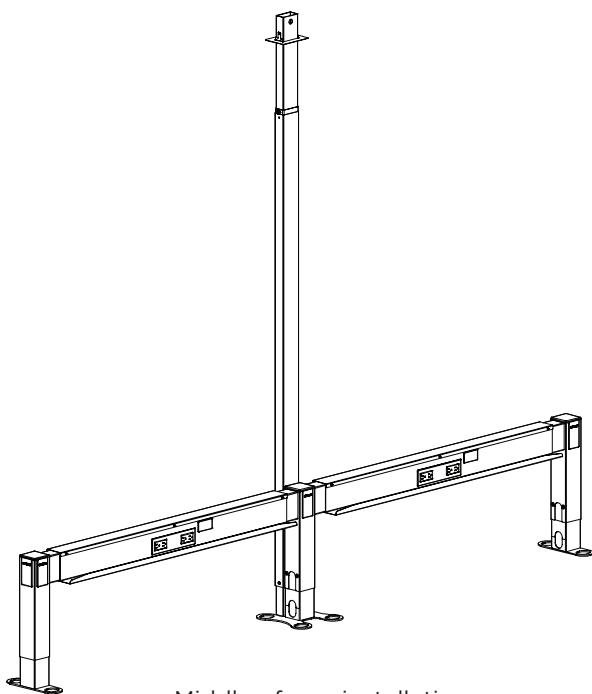
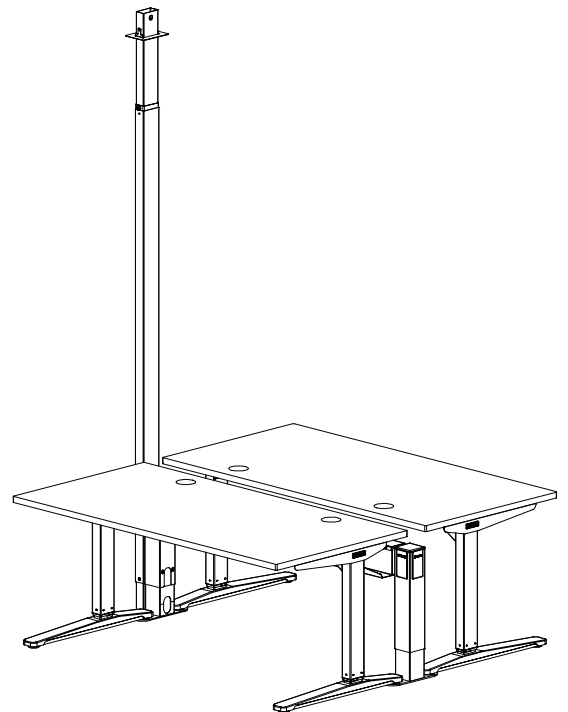
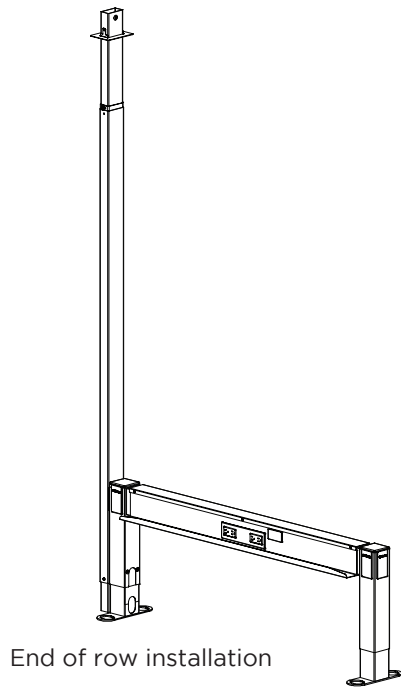
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Please read this manual carefully. Inappropriate use can cause property damage or bodily injury. Under no circumstances does the manufacturer accept warranty or liability claims for damages caused from improper use or handling. Provide this manual to any new user.

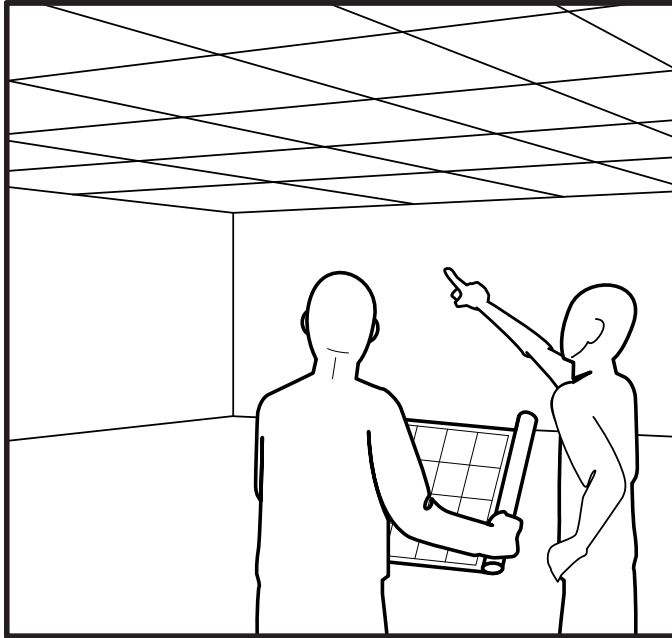
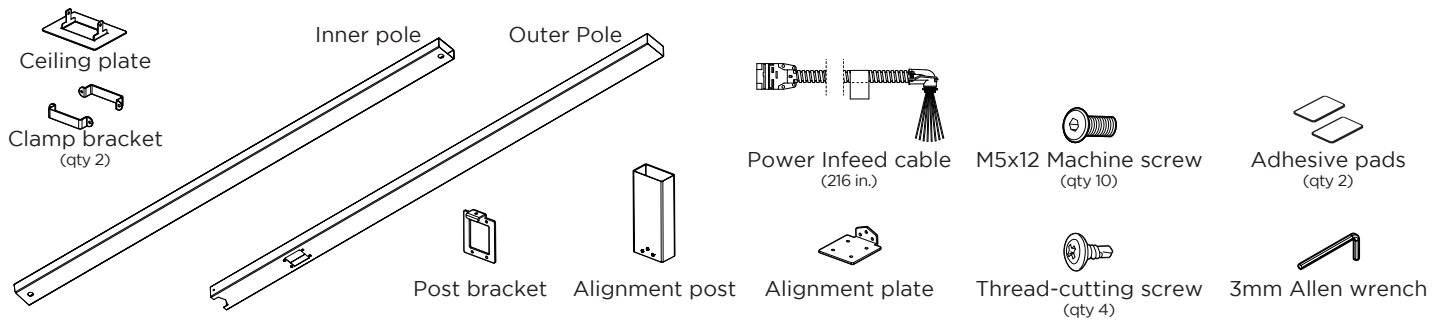
The Power and Data Pole can be installed at the end of a Power and Data Rail row or in the middle of a row, between the desks as shown in the diagrams below.

The feet of the Power and Data Rail posts help to position the feet of the UPLIFT V2 desk frames so that there is a 4 inch gap between desks from side to side and from back to back.

If you purchased the Power and Data Pole without desks, but with the optional Rail addition, your assembly will look like the top, left image below.



## Package Contents



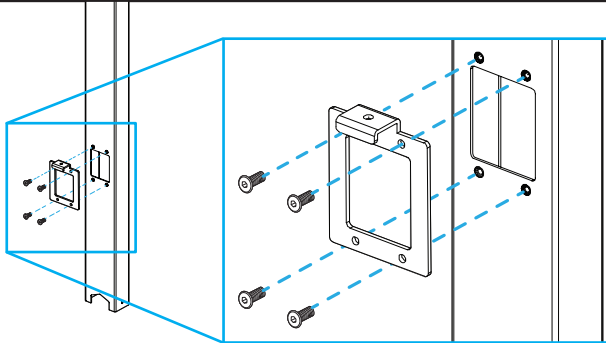
### Step 1

Begin by determining where your power and data drops will be located. Figure out where the closest junction box in the ceiling is located. The Power Pole was designed to conceal power and data cables running from the ceiling down to the UPLIFT Power and Data Rail when floor or wall power sources are not available.

The Power Pole is a telescoping design that works with ceilings between 8 and 12 feet high. Included with the Power Pole assembly is a 216-inch long hardwired flexible conduit power infeed cable. Cable connections require a licensed electrician and the length can be shortened as needed during assembly and installation.

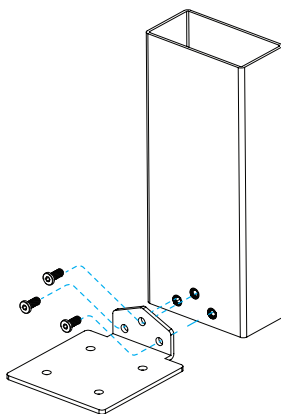
Power Poles attach to the Power and Data Rail square posts, so the location of the Power Poles and power drops should be considered when designing your Power and Data Rail configuration.

One Power Pole and Power infeed cable can provide power to up to 16 desks using four 20 amp circuits (up to four desks per individual 20 amp circuit).



### Step 2

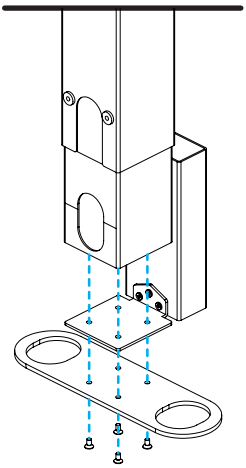
Attach the Post bracket to the Outer pole in the orientation shown here using four of the M5x12 Machine screws. Start all four screws loosely by hand and then tighten using the 3mm Allen wrench. Do not over tighten to avoid stripping.



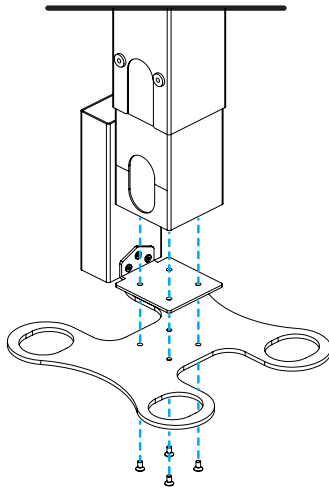
### Step 3

Attach the Alignment bracket to the Alignment post as shown here using three more of the M5x12 Machine screws. Once again, start all three screws loosely by hand before tightening with the 3mm Allen wrench. Be careful to not over tighten.

End of row installation



Middle of row installation



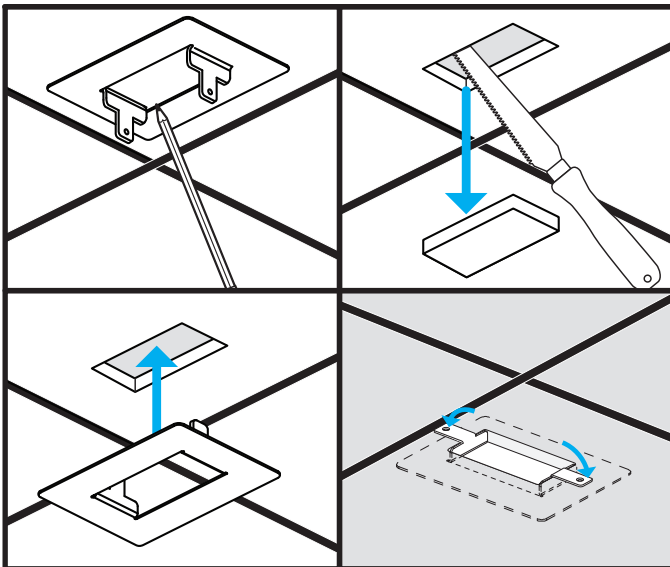
## Step 4

Position the Alignment post assembly from the previous step with the Alignment bracket between the bottom of one of the Power and Data Rail Square posts and a Post foot as shown here. Notice the difference in location of the Alignment post and plate when installing a Power and Data Pole at the end of a Power and Data Rail versus installing in the middle of a Power and Data Rail. Then, using the four M5 Flat head screws that came with the Square post, attach the Post foot to the Square post. As before, start all four screws loosely by hand before tightening with the 3mm Allen wrench.

If you are installing more than one Power Pole, follow Steps 2 and 3 for the remaining Power Poles at this time.

Then move the assemblies to the approximate locations below where the power and data drops will be.

**Note:** Be sure the Square post height is set before attaching the Alignment post assembly. See the instructions that came with your Power and Data Rail for post height settings.



## Step 5

At the locations where the power and data drops will be located on the ceiling, use the Ceiling plate as a template to create an outline for cutting your hole.

Then using a box cutter blade or drywall saw, carefully cut along the marked hole just to the outside of your marked lines so there is some clearance for the pole.

Once your hole is cut, carefully remove the material from the center of the cut lines and, from the floor side of the ceiling, insert the Ceiling plate. Hold the Ceiling plate in the hole, and bend over the tabs to hold the plate in place.

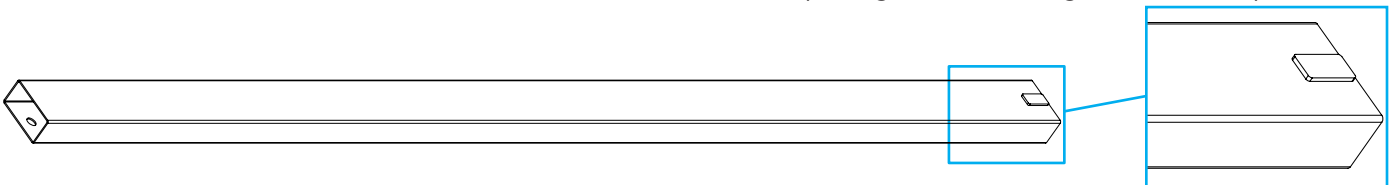
Repeat these steps for any remaining power and data drop locations.



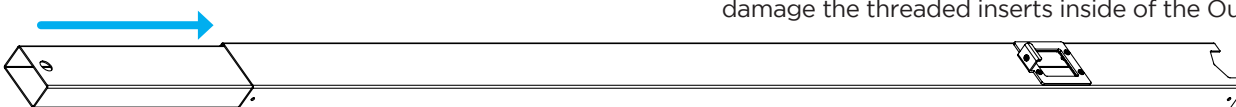
## Step 6

If you plan to attach a junction box or other wiring connections through the top of the pole, be aware there is a 1/2" diameter hole at one end and a 3/4" diameter hole at the other end of the Inner pole. The end with the hole you choose will be the "top."

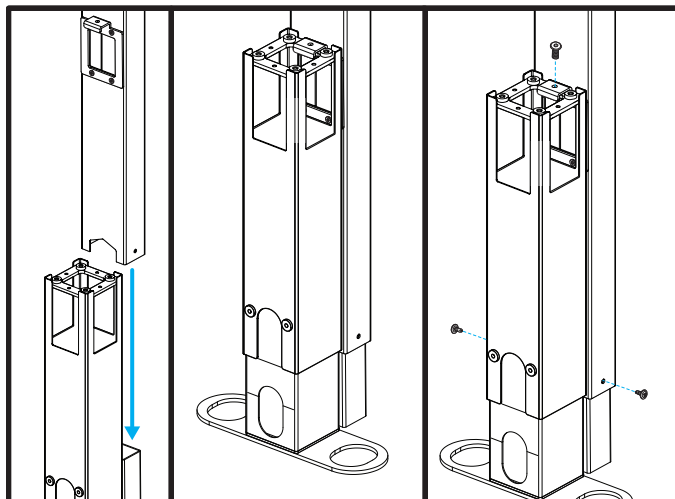
On the side opposite the hole at the "bottom" place an Adhesive pad to reduce rattling. Remove the backing from an Adhesive pad and place it lengthwise as shown. Press firmly to keep it from peeling off when sliding into the Outer pole.



With both poles laying flat, slide the Inner pole into the Outer pole from the end opposite where the Post bracket is attached. Slide the poles all the way together until the Inner pole stops. Be careful not to slide the Inner pole in forcefully or it could damage the threaded inserts inside of the Outer pole.



Steps 7 through 10 show the installation of the Power and Data Pole at the end of a Power and Data Rail row. Installation of the Power and Data Pole in the middle of a row follows the same basic steps, except that the Pole attaches to the post adjacent to a Rail instead of the opposite side of a Rail.



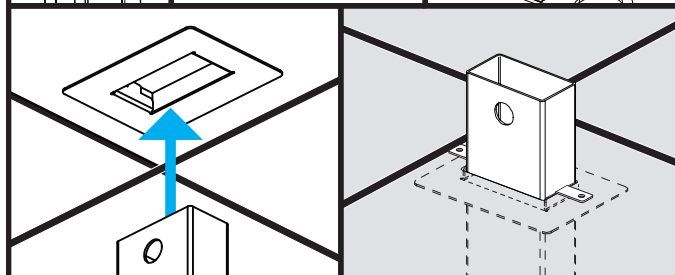
## Step 7

**Note:** We recommend using two people for the remainder of the Power Pole assembly.

Move the Inner and Outer pole assembly to the Power and Data Rail post it will be attached to. Be careful when moving the poles so that they do not slide apart. Carefully tip the pole assembly upright and position it along the Square post and above the short Alignment post.

Slide the pole assembly down over the Alignment post until the Post bracket is resting on the top of the Square post as shown.

Once in place, use one M5x12 Machine screw to attach the Alignment bracket to the top of the Square post and use two Thread-cutting screws to attach the Outer pole to the Alignment post.



## Step 8

With one person on the ground holding the pole assembly upright, a second person on a ladder can slowly slide the Inner pole up through the hole and Ceiling plate in the ceiling above.

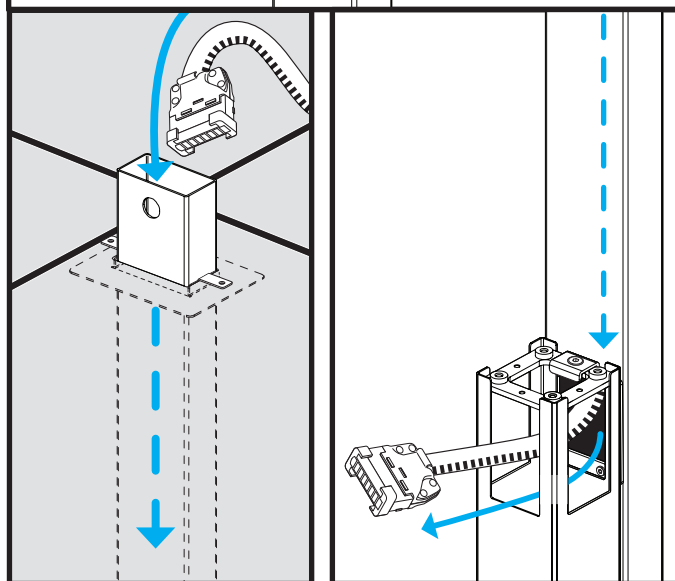
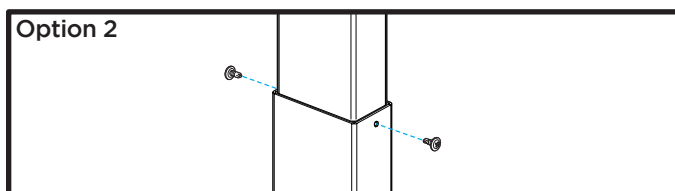
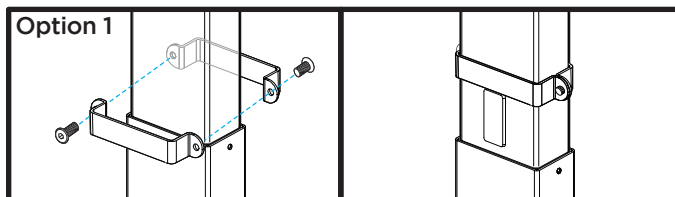
Once the Inner pole is 4 to 6 inches through the hole in the ceiling, lock the Inner and Outer poles together with one of the following two options:

**Option 1:** Place the Clamp brackets around the Inner pole directly above the Outer pole and attach them together using the remaining two M5x12 Machine screws.

After the Clamp brackets have been installed around the Inner pole, raise it up slightly and apply a second Adhesive pad as shown directly under the brackets and slide the Inner pole down into the Outer pole.

**Option 2:** Use the remaining two Thread-cutting screws to attach the Outer pole to the Inner pole through the small holes in the top of the Outer pole.

**IMPORTANT:** Do NOT use Option 2 if you are running data cables down through the Power Pole. The Thread-cutting screws may damage the data cables.



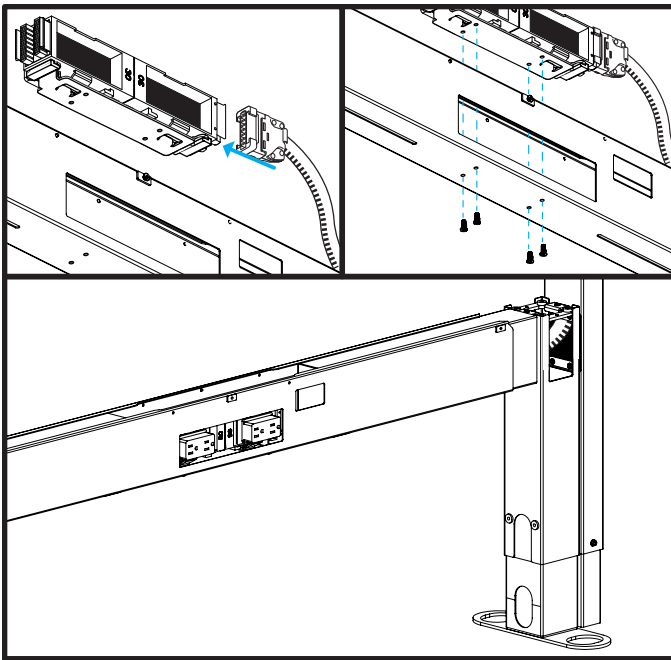
## Step 9

The final step of the Power Pole installation is to run your cables. If you are installing both power and data cables, install the Power infeed cable first.

The person above on the ladder should move one of the dropped ceiling panels aside and then begin to feed the Power infeed cable down through the top of the Power Pole with the connector end first.

Continue to feed the cable down through the pole assembly until the person on the floor sees the connector through the opening at the top of the Square post. As the person on the floor begins to route the Power Infeed cable through the opposite side of the Square post, continue to feed cable down through the Power pole until there is about 1 to 2 feet coming out of the post.

Note, route the Power infeed cable through one of the side openings in the Square post (90 degrees from the Power and Data Pole) for installations in the middle of a Power and Data Rail row.



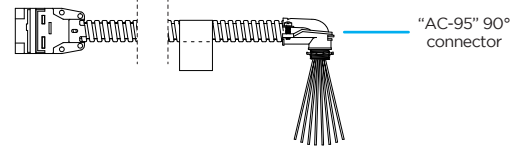
## Step 10

Follow the instructions included with your Power and Data Rail to begin adding rails and additional posts to your configuration.

Once the first Rail is in place, the length of cable coming out of the Power Pole can be adjusted as needed to reach the Power block in the rail. After the Power Infeed connection is made to the Power block in the Rail, the excess cable above the ceiling can be trimmed or coiled and electrical connections can be made.

As noted in Step 6, the hole at the top of the Power Pole can be used for attachment of a junction box or other wiring connections.

To complete the wiring, have a licensed electrician connect the "AC-95" 90° connector at the end of the Power infeed cable to a 1/2" diameter knockout on the junction box and make the applicable wiring connections.

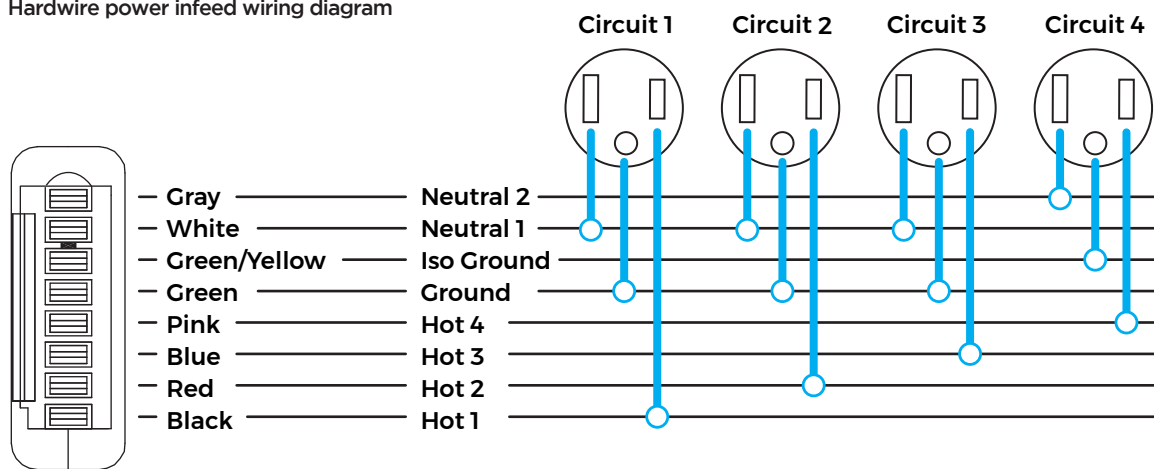


## Power infeed wiring information

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.

Hardwire power infeed wiring diagram



### IMPORTANT:

All hard wired electrical connections must be made by a licensed electrician.

Refer to all warnings at the beginning of this manual.



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