

Wood Post System

Receivers: Swivel + Self Grip

Installation Instructions/Information

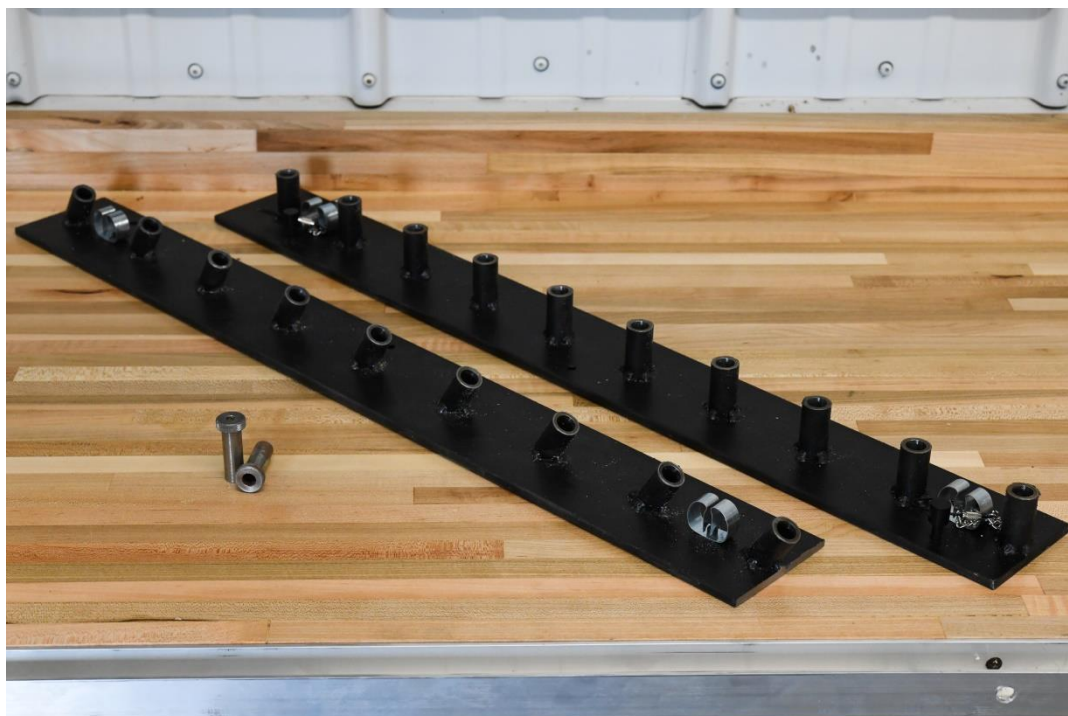
These installation steps are for systems using 4"x4" wood posts or larger.

Supplies needed:

- Drill
- Tape Measure
- Marker
- 20 Torx bit (3" or longer)
- 10mm wrench
- 5mm hex bit
- 6"+ 1/4" bit
- 1/8" bit (3" or longer)
 - o *NOTE* - If using hard woods such as Ipe or mahogany, use 5/32" bit instead
- Safety glasses
- Vice grips
- Wire cutters
- Large C-clamps (if using our drill guides)

Optional items available for rent or purchase:

- Drill guide for stairs or flat runs
- Drill stops
- Custom Swivel 10mm wrench
- Wire rope cutters



Some notes before installation

Hard Woods

If using a harder wood such as Ipe or Mahagony, we highly recommend using a #20 bit instead of an 1/8" bit for drilling pilot holes.

Stair Installation

-it doesn't matter if it is a flat run or an angle run; you can use the same fittings for both. Our fittings are designed with 10 degrees of adjustability. That in conjunction with our drill templates ensures a consistent and smooth installation. All of the installation steps are identical for both flat and angled runs as well, with the exception of drilling the holes at an angle for angled runs.

Dual Sided Posts

-For posts where opposite sides will both need fittings where you wish to seat the fittings deep, you will need to offset the pilot holes around 1/2" to the right or left on one of the sides so that the threads do not hit.

Corner Posts

-For corner posts where the fittings are buried deep, you will need to offset the pilot holes 1/2" below or above the holes you drilled on the other side of the post. This will ensure the threads of the fittings will not hit on the interior of the post.

Step 1. Make your counter holes.

*We will drill guides to make spacing your cables and drilling your pilot holes extremely easy.

First, plan how your cables will be spaced. Standard cable spacing is 3". We recommend using our drill guide to make the spacing as easy as possible.

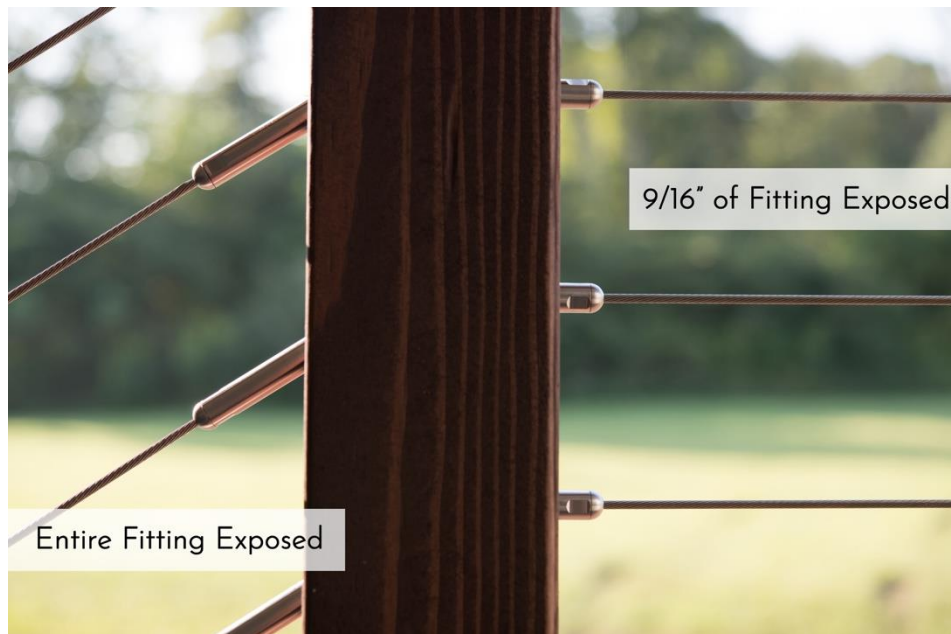
Drill your counter holes using a 1/2" brad point. Remember, however deep you make this hole is how deep your fitting will sit inside your post.

Your depth options will vary slightly between the two receiver styles:

- **Self -grip receiver:** You can seat this as deep as you would like into your post. Here are two examples of how they can be seated in/on your post:



- **Swivel Receiver:** you can seat these so that the entire fitting is exposed, or as little as 9/16" sticks out and 1.5" is buried. For the receiver, the most important part is that the flats on the end of the fittings are accessible.



We highly recommend setting a drill stop in order to make these holes identical from one another. If they are not the same depth, your fittings will stick out at different lengths from strand to strand.



Photo demonstrating using our drill template and drill stop to make counter holes

Next, drill your pilot holes using an 1/8" drill bit. The depth you will drill the holes will be dependent on how deep you choose to place your fittings into your post. Determine the length of the fitting you would like to bury into the post, and add 1.5".

If using our drill guide, add 3"

Once the depth of the pilot holes are determined, drill them using your 1/8" bit (or #20 bit if using tropical hard wood).

This photo shows the pilot holes being drilled using our drill guide.



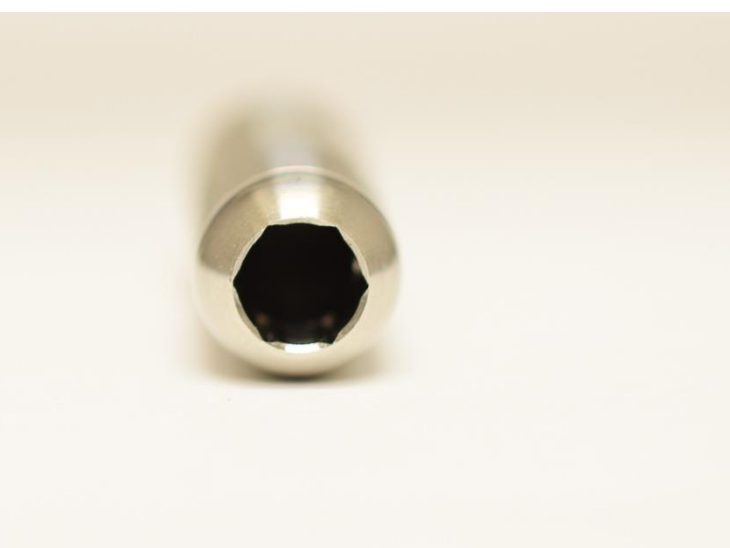
For your mid posts, you will need to drill the entire way through the post using a bit larger than the 1/8" cable. We recommend using a 1/4" bit.

Step 2: Drill in your fittings.

Drill in all of your Swivel receivers to the first post using a 20 torx going down through the body of the receiver as shown below. Drill until the fitting is tight, then back the fitting out half a turn to make sure the fitting spins freely.



Drill in your Self-Grip receivers into the other end post using a 5mm Hex bit. Note that you will NOT place the drill down through the receiver like you did with the swivel receiver. The hex head is on the outside of the receiver as shown in the photo on the right below. You do not have to back these receivers out like you did with the swivel receiver.



Step 3: Install your wire rope

Taking the corresponding wire rope for your run (these will be labeled), insert the swaged end of the wire rope into the Swivel receiver and turn the receiver clockwise while holding the wire rope still. Turn until about $\frac{1}{2}$ of the threads are exposed. Do this for each of the cables on that side.



Before proceeding, make sure the cap is on your wire rope (shown in first picture above).

Next, if you have mid posts, feed each cable through the corresponding mid post holes starting from the top down.

Step 4: Cut the Wire rope

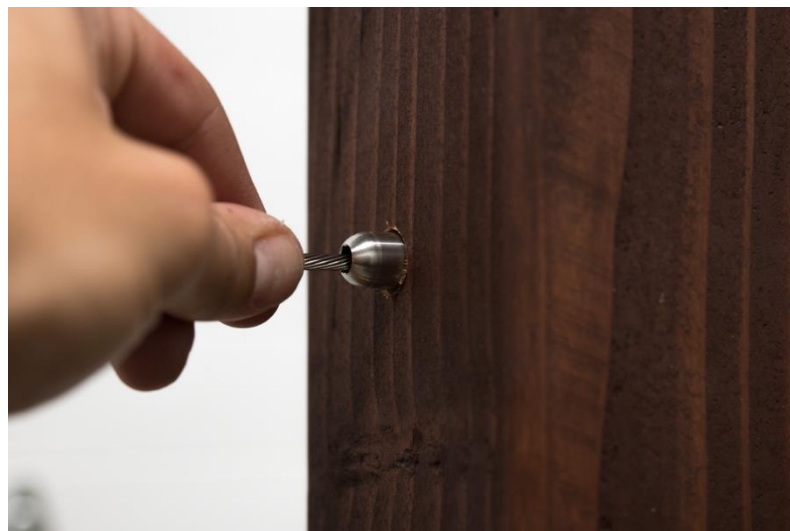
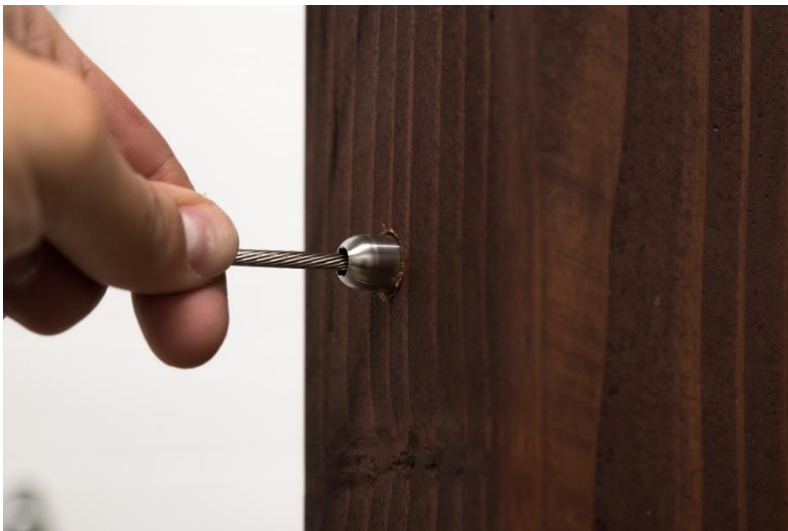
At the unswaged end of the wire rope, pull the wire tight and put a mark on the wire where the receiver begins.



Put another mark 1.5" after the mark you just created. Cut on this mark.



Take the raw end of the wire rope that you just cut, and make sure the strands are tightly wrapped by twisting it together. While turning the wire rope clockwise, push it into the fitting as far as it will go. This will lock the wire rope in place.



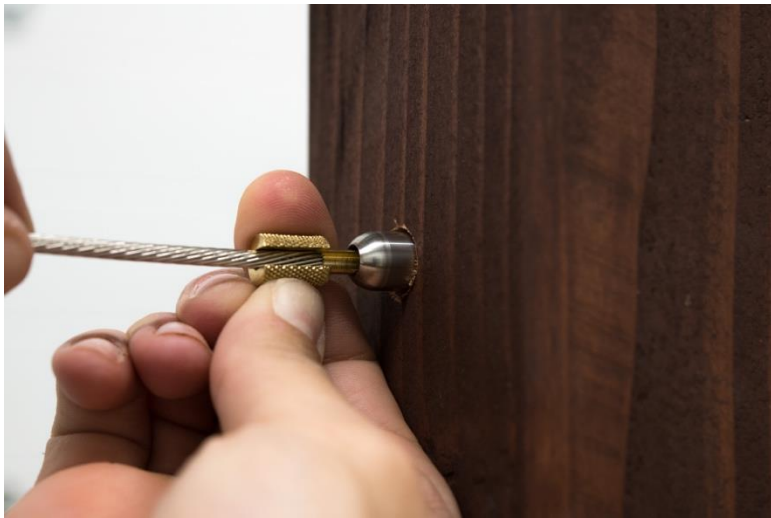
Go back to the post with the Swivel receiver. Starting with the middle wire rope and working your way out, grip the wire rope with a pair of vise grips in front of the receiver, and turn the receiver clockwise to tension the wire rope. **PLEASE NOTE:** Do NOT let the rope spin while turning the receiver. Snap cap into the receivers once wire rope is fully tensioned.



Troubleshooting

The Swivel receiver is bottomed out and your wire rope is still not fully tensioned.

- Take the cap off of the swivel receiver and turn the receiver counter-clockwise while holding the wire rope still with a pair of vise grips. Keep turning until 1/8" of the studs are exposed. Go back to the post with the self-grip receivers, and pop the wire ropes out of the receivers using the self-grip release tool included with your order. Cut the wire rope 1/4" shorter, and push back into the receiver while turning clockwise. Following the previous tensioning steps to tension.



Your wire rope is too short and wont slide into the self-grip.

- You can try backing the stud out of the swivel receiver to give you a little more wire rope. If you still cant push the wire rope into the self-grip deep enough, give us a call and we can place an order for you for a replacement wire rope.