

**Modern Horizontal Banister Instructions**  
**READ ALL INSTRUCTIONS BEFORE BEGINNING**  
**INSTALLATION**

**WARNING:**

**THIS ITEM IS NOT A TOY**  
**KEEP OUT OF REACH OF**  
**CHILDREN**

**WARNING: SMALL PARTS**  
**CHOKING HAZARD**

**NOT FOR HUMAN CONSUMPTION**

**WARNING: PLASTIC BAG CHOKING HAZARD**

**WARNING: SCREWS CONTAIN SHARP POINTS**

**USE EYE PROTECTION AT ALL TIMES**

Keep ALL packaging and banister components out of reach of children.

This item is not a toy. Some components include sharp points.

Misuse of this item can result in injury or death.

Failure to follow these instructions completely could lead to injury or death. Concept Fusion LLC is not liable for any injuries or deaths sustained during installation or use of this product.

Thank you for your purchase of our Concept Fusion Banister System. Please read all the instructions before beginning installation.

Tools needed:

- 1) Drill

- 2) Tape Measure
- 3) Pencil
- 4) Level
- 5) ½ inch wrench or socket driver
- 6) 7/16 inch wrench
- 7) Safety Glasses
- 8) Gloves

Getting Started:

***Be sure to follow proper safety while installing this handrail system. Eye protection should be worn at all times during installation. Additional safety measures may be necessary.***

Unpack your Banister kit. Your kit should include the following parts:

**PN1** - Vertical Posts. Your purchase listing will specify how many posts you receive.

**PN2** - Aluminum Block Clamps. Each post has (8) of these.

**PN3** - Top Hinge Plate. One per post.

**PN4** - Top Rail. If your kit is longer than 6 feet, this will come in sections.

**PN5** - Top Rail Splice. Only in kits greater than 6 feet. Used to connect Top Rail (PN4) sections.

**PN6** - Horizontal Runners. Each kit has (8) of these. If your kit is longer than 6 feet, they will be spliced.

**PN7** - Runner Threaded Insert. Only in kits greater than 6 feet. Used to connect horizontal runner (PN6) sections.

**PN8** - 5/16x3 Stainless steel lag bolts. Four per post. Used to connect Vertical Posts (PN1) to floor.

**PN9** - ¾ Stainless steel set screws. 1 per Aluminum Block Clamp (PN2). Used to secure Horizontal Runners in place.

**PN10** - 1/4x2.5 Stainless steel Hex Bolts. 1 per Aluminum Block Clamp (PN2). Used to secure Aluminum Block Clamp to Vertical Post.

**PN11** - ¼ Stainless Steel washers. Use with PN10.

**PN12** - 5/16 Stainless Steel Carriage Bolts. 1 per Vertical Post. Used to affix Top Hinge Plate (PN3).

**PN13** - 5/16 Stainless Steel Cap Nut. Used with PN12.

**PN14** - 5/16 Stainless steel washer. Used with PN8.

**PN15** - ¾ Self drilling screw. Used to attach Top Rail (PN4) to the Top Hinge Plate (PN3).

**PN16** - Round end cap. Used to plug the ends of the Horizontal Runners (PN6).

**PN17** - Rectangular end cap. Used to plug the ends of the Top Rail (PN4).

**PN18** - 3/16 Pilot drill bit. For pilot drilling PN8.

**PN19** - Extended Phillips Driver Bit. For installing PN15.

**PN20** - ½ Allen Wrench. Used with PN9.

**PN21** - ½ inch plastic plug.

Installation Overview:

Your Banister is designed for easy installation following a 7 step process:

- 1) Assemble the Vertical Posts.
- 2) Attach Vertical Posts to the floor.
- 3) Assemble Top Rail. Only for kits greater than 6ft.
- 4) Attach Top Rail.
- 5) Assemble Horizontal Runners. Only for kits greater than 6 ft.
- 6) Attach Horizontal Runners.
- 7) Final tightening of all parts.

### **Step 1 - Assemble the Vertical posts.**

Parts used: PN1, PN2, PN3, PN9, PN10, PN11, PN12, PN13, PN20.

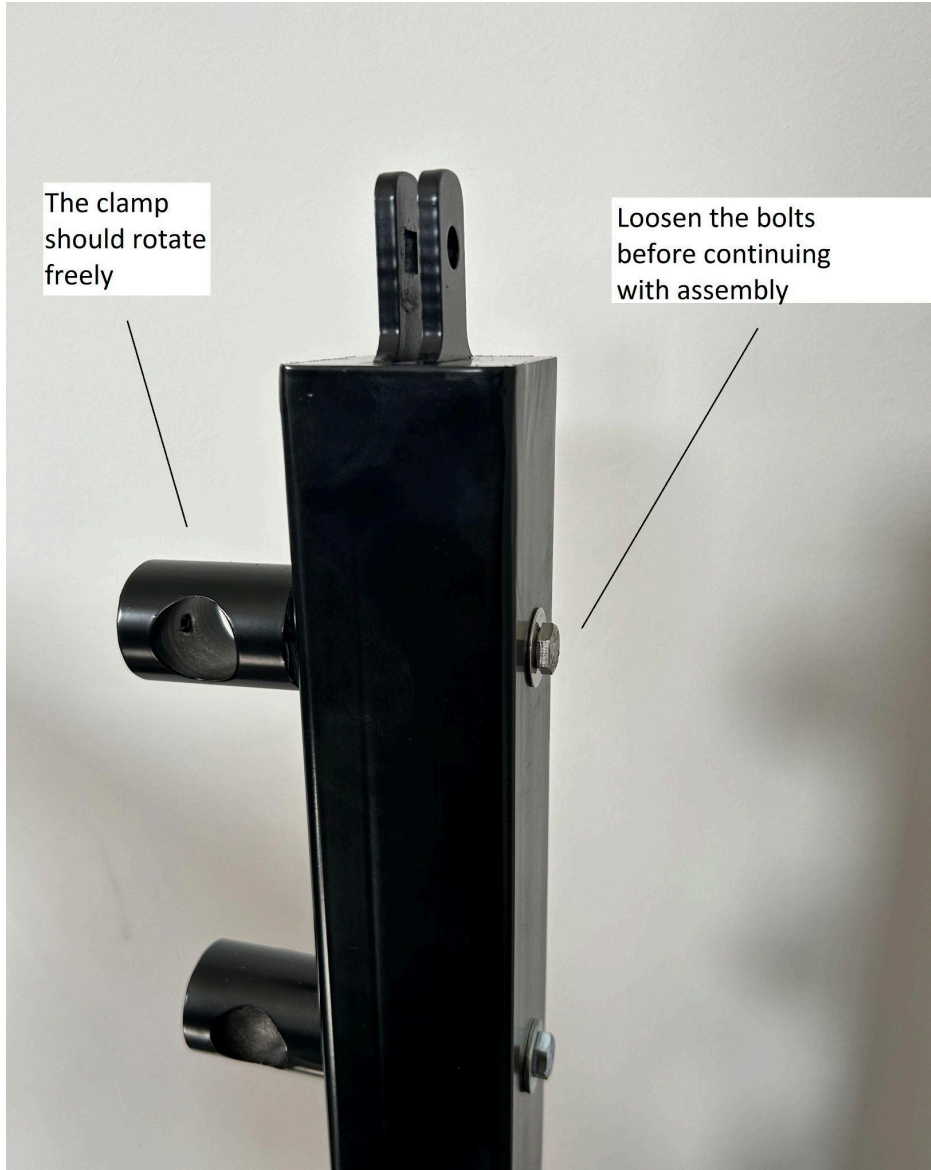
Tools needed: 7/16 wrench.

Determine the front of the Vertical Post PN1. The front is the side with the square hole at the top (see picture 1)



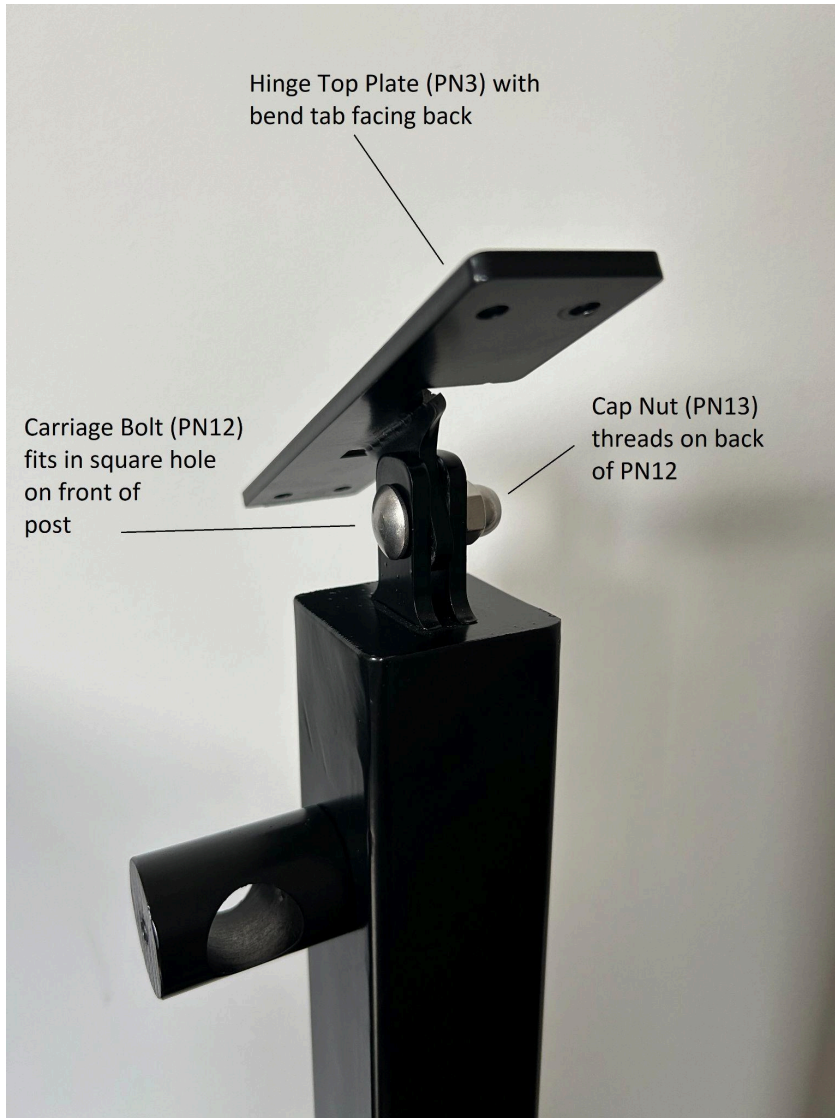
**Picture 1**

Next, loosen each hex bolt (PN10) so that the clamp block (PN2) can rotate (see picture 2). *Leave the bolt loose, you will tighten it later.* Do this for all 8 blocks (PN2). You can use a 7/16 wrench to hold the bolt.



**Picture 2**

Next, insert the Top Hinge Plate (PN3) into the top of the post. Make sure that the bend tab is facing the back of the post (see picture 3). Place the carriage bolt (PN12) through the front square hole and thread on the Cap Nut (PN13) to the back.



**Picture 3**

### **Step 2 - Attach vertical posts to floor.**

Parts used: Vertical Post Assembly (PN1), PN8, PN14, PN18.

Tools needed: Drill, Tape measure, Pencil, ½ inch wrench or socket driver.

Determine where the posts are to be located. Make sure they are in a straight line (use a straightedge or the top rail to help with this).

Once the Vertical Post Assembly is in the correct place, mark all 4 holes in the base. Pilot drill these with the provided 3/16 drill bit (PN18). Then affix the post using the 5/16 lag bolts and washers (PN8 and PN14). **Be sure that all 4 lag bolts are fully secured into frame pieces.** Leave the lag bolts a little loose, you will tighten them at the end. **If your kit includes a spliced top rail, ensure that the splice is centered over a post. Also, your Banister kit is**

***sent with a predetermined number of posts for its length - you must use all these posts equally spaced to ensure the safe operation of your product. Do not exceed 48 inches spacing between posts. When installing the end posts, ensure that the top rail and horizontal runners extend at least 3 inches beyond the post.***

### **Step 3 - Assemble the Top Rail (only for kits longer than 6ft)**

Parts used: PN4, PN5, PN20, PN21

Assemble the Top Rail (PN4) by sliding the splice pieces (PN5) one at a time into either of the rail sections. Start by installing the splice piece which has the set screws in it and slide it into the rail section until the set screw is centered in the holes in the rail section (see picture 4). Then slide the second splice piece in until it is flush with the first splice piece (see picture 4). **Make sure that the W profile of the splice pieces are inverted compared to one another as shown in Picture 4.**

***It is much easier to slide the splice pieces into the rail sections one at a time. Slide the bottom section in by itself, followed by the top section. Note, the splices are designed to fit tight inside the rail to add strength to the splice point: some pressure or adjustment may be needed to install them. If the splice does not slide into the rail, the set screws may need to be loosened.***



***Picture 4***

Tighten the set screws in the rail with the 1/8 inch hex key (PN20) provided in the kit. Only loosely tighten the screws enough to hold the splice and shim in place.

**Some force may be needed to start turning the setscrew.**

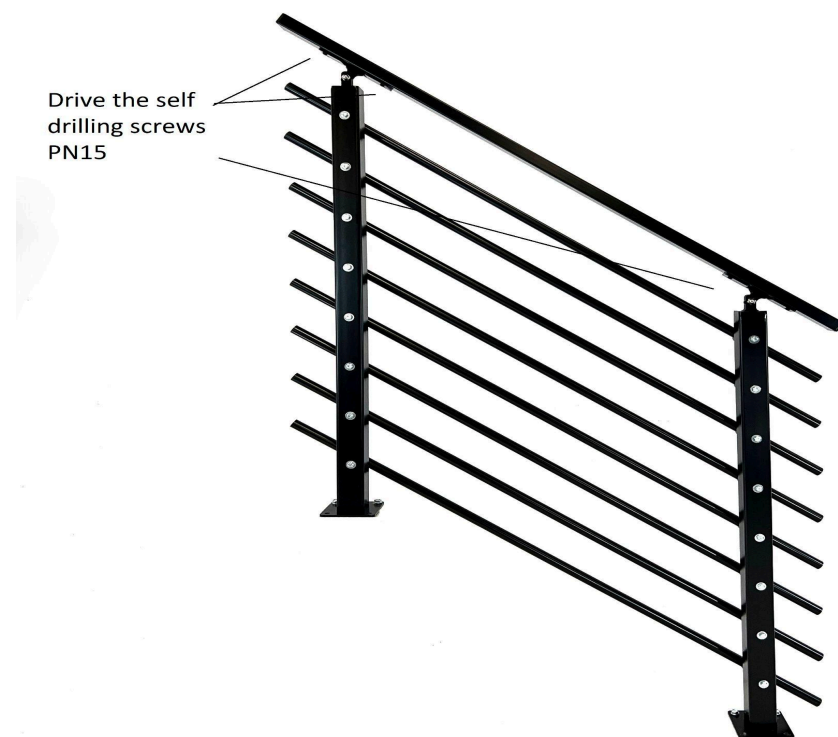
Slide the second rail section over the splice and tighten all set screws until the rails do not slide apart. **Do not continue to tighten the set screws after this point as that could deform the top of the rail.** Note, During tightening of the set screws, apply pressure from the ends of the rail to push the rail together to insure there is not a gap between the two rail sections after tightening. Finally, push the plastic plugs (PN21) into the holes over the set screws.

#### Step 4 - Attach the Top Rail

Parts used: PN4, PN15, PN19

Tools used: Drill

Place the assembled top rail (PN4) on top of Post Hinge Plates. Using the provided Driver (PN19), attach the top rail with the self drilling screws (PN15) (see picture 5). *Note: do not pilot drill the screws, they are designed to drill themselves. Be sure to drive 4 screws per post.*

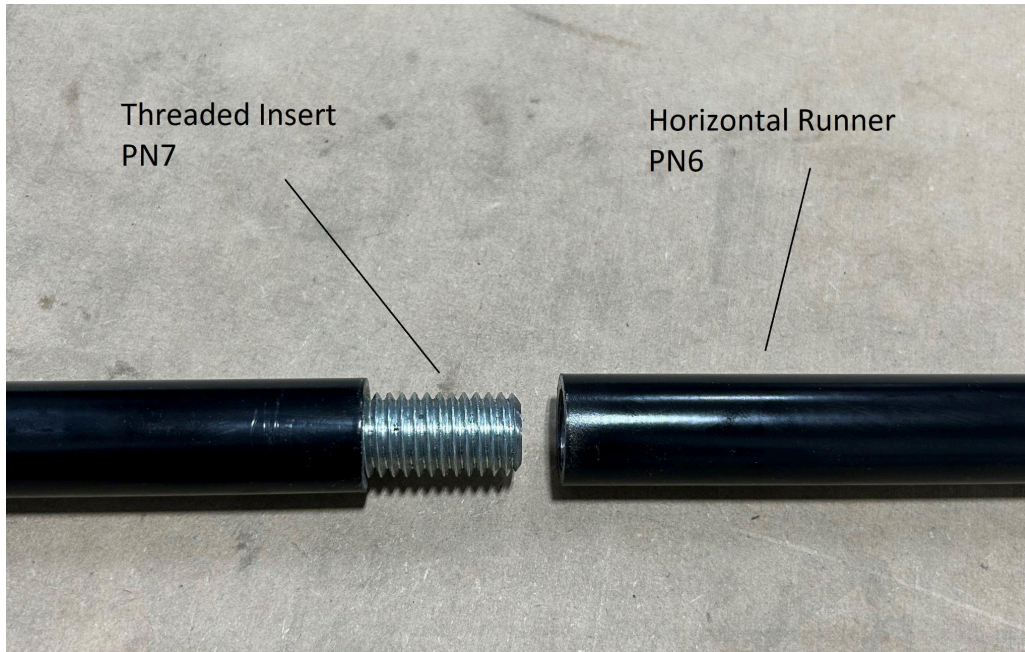


**Picture 5**

### Step 5 - Assemble Horizontal Runners (only for kits greater than 6ft)

Parts used: PN6, PN7

Thread the Runner Threaded Insert (PN7) into the Horizontal Runner (PN6). Then thread the other Horizontal Runner onto the insert. Hand tighten (see picture 6).



**Picture 6**

### Step 6 - Attach Horizontal Runners

Parts used: PN6, PN20

Tools used: Tape Measure

Slide the assembled Horizontal Runners (PN6) thru the Aluminum Clamps (PN2) on the Vertical Posts. **Note: take care when sliding the runners through the clamp block to avoid scratching the runners.** Use the tape measure to make sure that the stick out of the ends is the same for all 8 runners. Tighten one of the Clamp Setscrews (PN9) using the allen key (PN20) to hold the Runner in place.

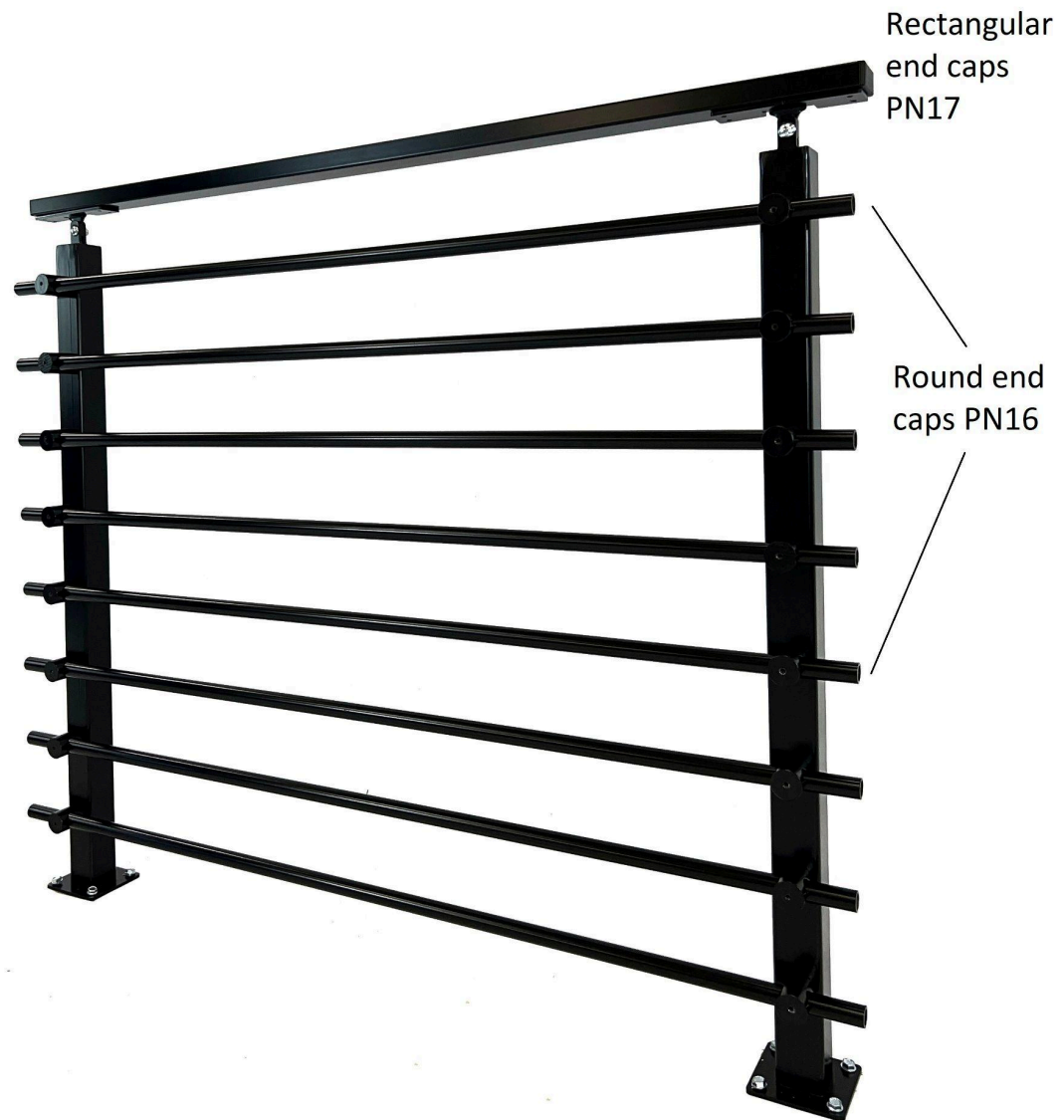
### Step 7 - Tighten all bolts and install end caps.

Parts used: PN16, PN17, PN20.

Tools used: 7/16 wrench, 1/2 wrench/driver

Final tighten all bolts. Start with the Lag screws (PN8). Then tighten the ¼ hex bolts (PN10). Next tighten the Cap Nut (PN13). Finally tighten all the Clamp Setscrews (PN9).

Finally, install the Rectangular End Caps (PN17) into the top rail and the Round End Caps (PN16) into the horizontal runners (see picture 7).



**Picture 7**

Congratulations! You have finished assembling your banister! Thank you again for choosing Concept Fusion Banister systems.

## **Notes on Trimming on site:**

The top rail and horizontal runners can be trimmed to length on site. We recommend using a miter saw with a blade designed to cut aluminum. Make sure the piece is secured before cutting and always wear eye and ear protection. Keep hands well clear of the blade. Be sure to follow all miter saw safety guidelines. Concept Fusion LLC is not liable for any injury sustained in the cutting or modification of its products.

### ***Please Note,***

***Failure to follow these instructions completely could lead to injury or death. Concept Fusion LLC is not liable for any injuries or deaths sustained during installation or use of this product. Any modifications to this product will void all guarantees and can result in injury or death. It is your responsibility to comply with all local zoning requirements, failure to do so can result in injury or death. It is your responsibility to follow all workplace safety guidelines during installation of this product, failure to do so may lead to injury or death.***

***You must wear proper safety gear including but not limited to gloves and eye and ear protections during installation. This product contains sharp edges and points that can cause injury or death.***

***If your kit is missing parts please message us through your purchasing site. We will work to quickly correct any issues with your order.***

***If you have any questions about these installations, feel free to message us through your purchasing site. We will provide any additional information we can.***