

AR400-EW Universal Bracket

Railing Installation Guide

TOOLS :

- Hacksaw or metal cutting saw
- Drill with Phillips tip
- Drill bits 3.5mm、4mm
- Measuring tape
- Level

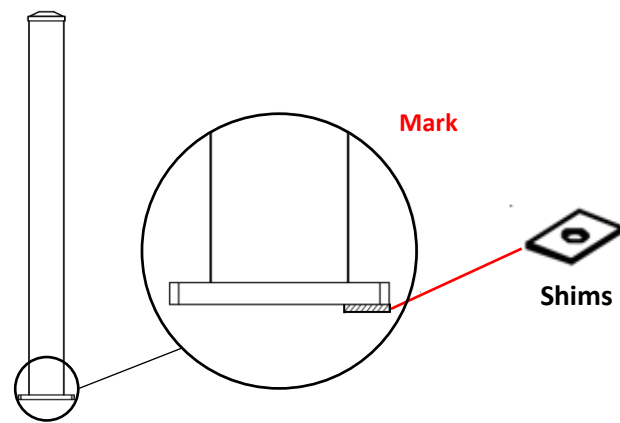
MATERIALS :

- Post Kits
 - Panel Kits
 - Universal Brackets Set
- All fasteners are included with each component

Straight Railing Installation

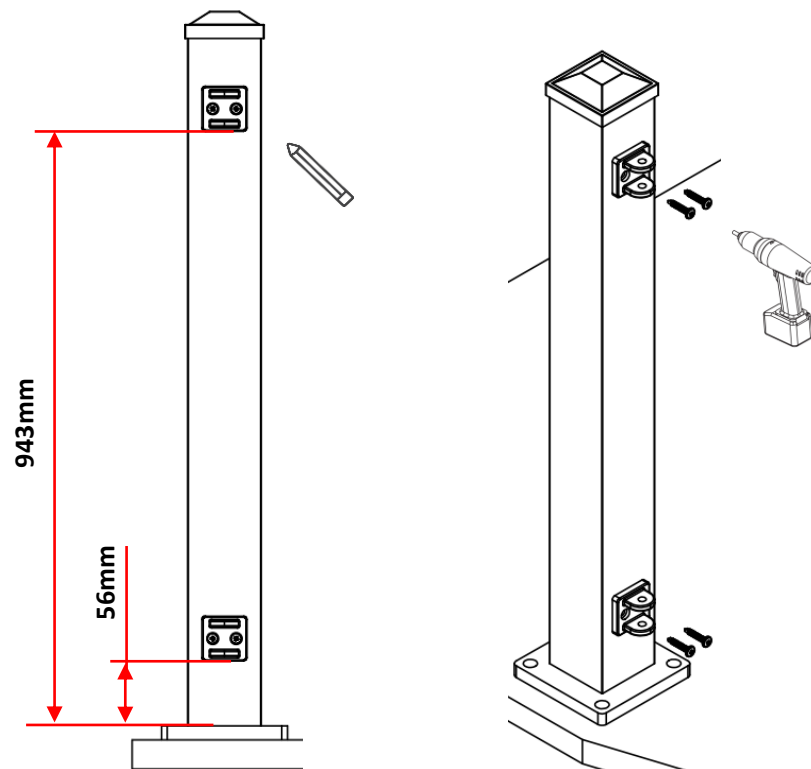
Step 1: Measure and locate all posts

- 1.1 Measure and locate all posts.
- 1.2 Choose the appropriate M10. fasteners to fasten the posts according to local regulations. Ensure the posts are plumb. Use shims to adjust verticality.



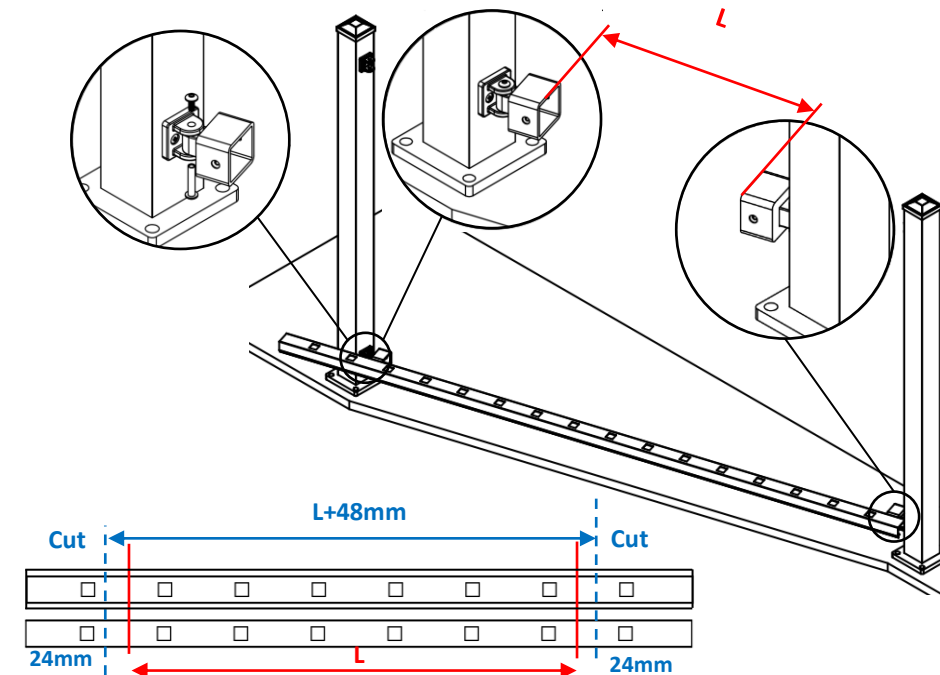
Step 2: Determine the location to install the bottom and top bracket

- 2.1 The distance between the bottom universal bracket and the upper surface of the post bottom plate is 56mm. The distance between the top universal bracket and the upper surface of the post bottom plate is 943mm. Take measurements and mark the posts with a pencil.
- 2.2 Use two # 101 "cross pan head drilling screws to fix the universal bracket according to the marked position. (Use a 4mm drill bit to drill on the post before locking the screws.)



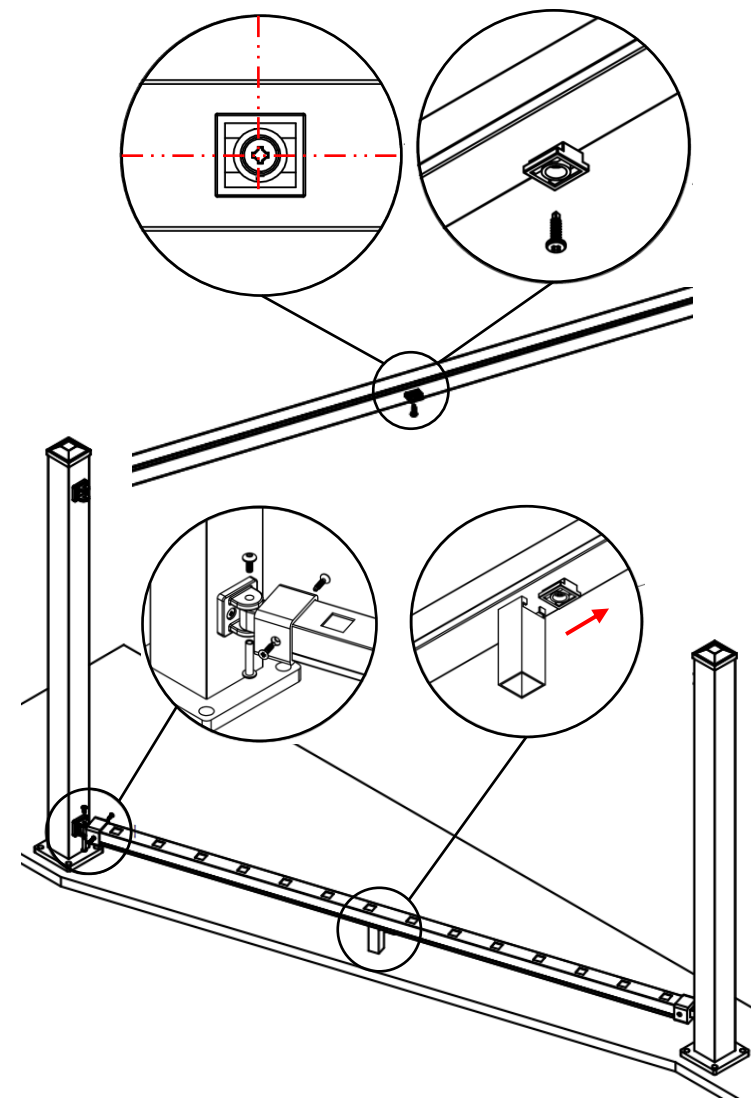
Step 3: Cut the bottom and top rail

- 3.1 Use letter nails to temporarily fix bottom bracket and base, adjust the bracket to the appropriate Angle, and measure the front dimension L of the left and right ends of the bracket.
- 3.2 The beam size is L+48mm. When cutting the rail, we should try to ensure that the size of the left and right ends of the hole to the edge of the rail is the same, and the spacing between the hole on the edge of the rail and the post is less than 101mm, and the bottom rail and the top rail are cut at the same time according to the same size.



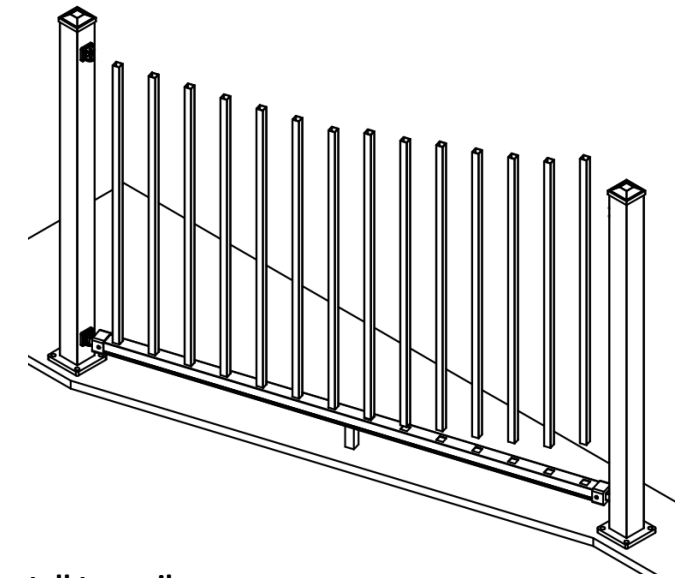
Step 4: Installation of bottom support connectors and bottom rail

- 4.1 Install the bottom support connection to the middle of the bottom rail using a # 101 "cross pan head screw.
- 4.2 The bracket is installed at both ends of the rail. Then, in the base of the bracket, the bracket and the base are fixed respectively with the child and the mother nails. Then, the bracket and the bottom rail are fixed respectively with 2 #8 3/4 "cross countersunk head screws.



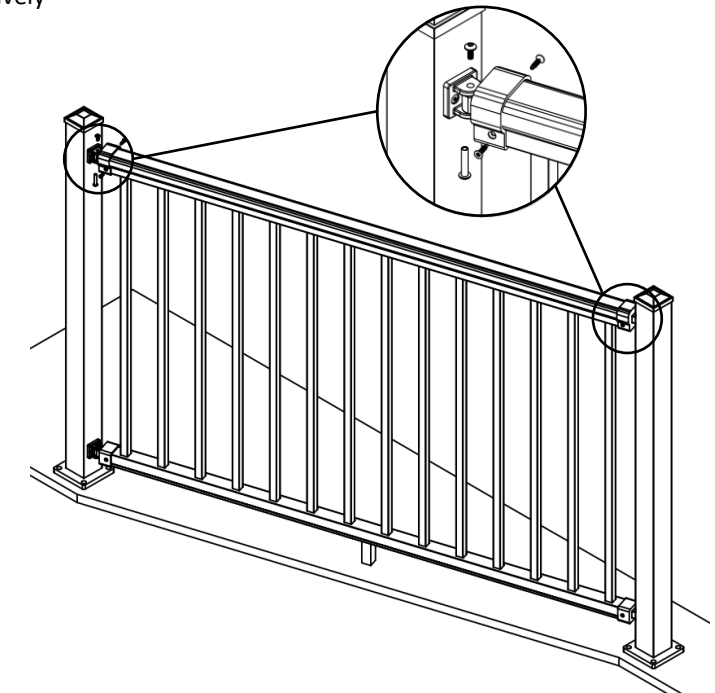
Step 5: Installation of picket

- 5.1 Install the pickets into the bottom rail respectively



Step 6: install top rail

- 6.1 The top rail bracket is installed at both ends of the top rail, and then the top rail is matched to the bar, and the bracket is matched to the bottom seat, and the universal bracket and the base at both ends are fixed using the child and the mother nails respectively.
- 6.2 Secure the bracket and rail with two #8 3/4 "cross countersunk drilling screws, respectively

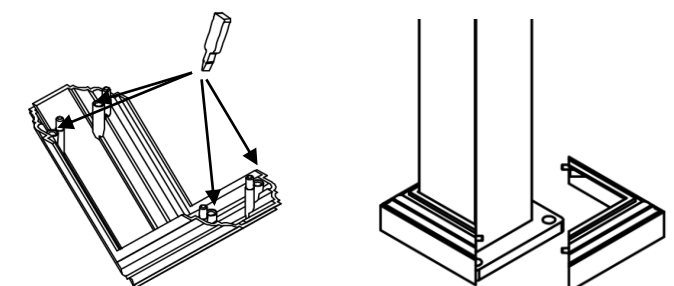


Install post cap and post trim

Post cap is pre-assembled onto your post. If loose use a plastic hammer or similar tool to make it tight.

Install the post trim after all other components are installed.

Install the post trim as following:
Drop the glue into the holes of post trim (Do not overflow.)
fasten the post trim and press it tight about 6 seconds.



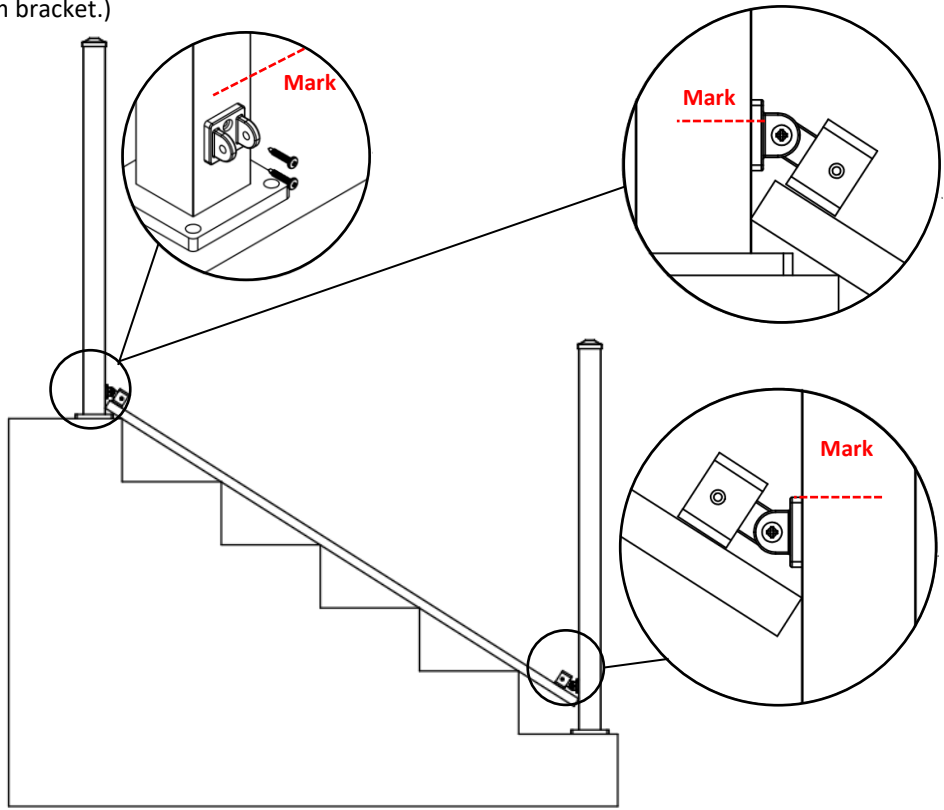
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Stair Railing Installation Guide

Stair Railing Installation

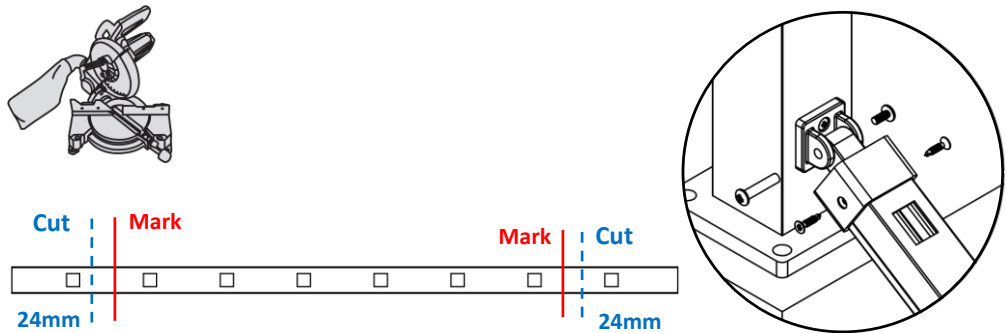
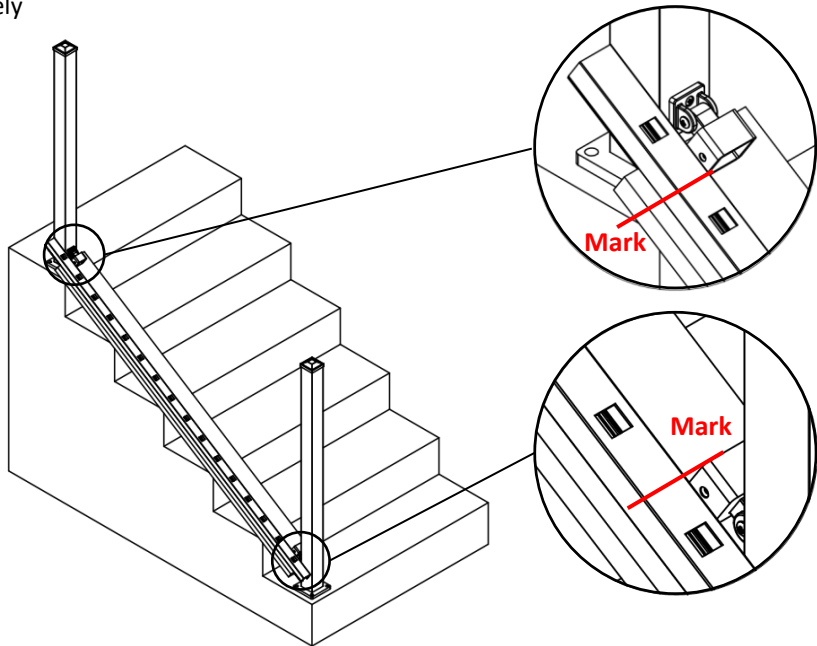
Step 1: Locating brackets, measuring the length of rail

- 1.1 Measure and locate all posts.
- 1.2 Choose the appropriate fasteners to fasten the posts according to local building code. Ensure the posts are plumb. Use provided shims to adjust verticality.
- 1.3 The universal bracket is temporarily pre-installed with the child and the mother nails, and the bracket is respectively placed on the board to mark the position of the base on the post.
- 1.4 Remove the base of the bracket and secure the base of the bracket using two # 101 "cross pan head screws each at the marked position. Drill holes on the posts using a 4mm drill bit before fixing screws.(The post rotation Angle may be required when fixing the base of the bottom bracket.)



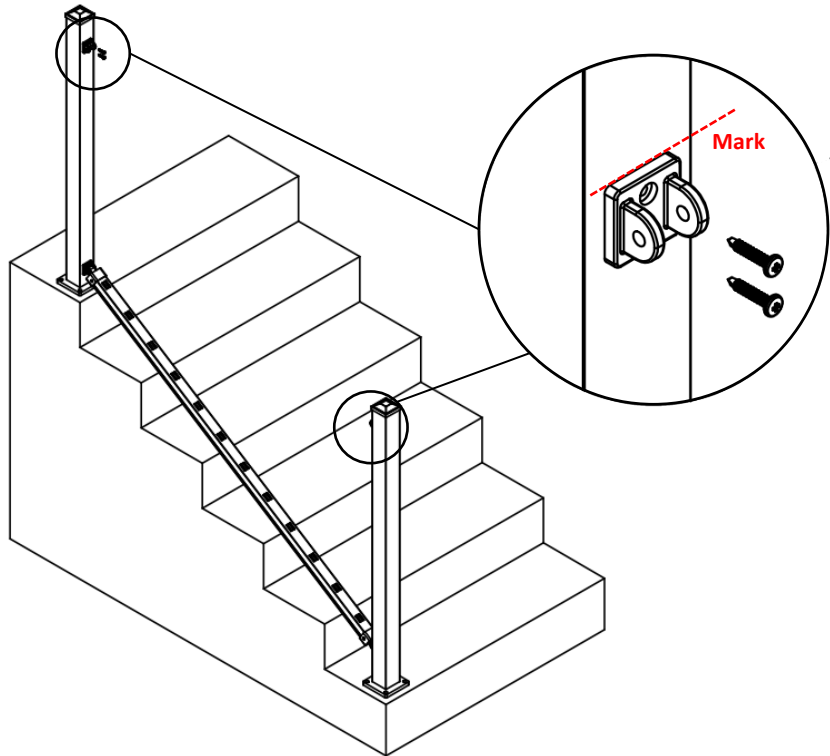
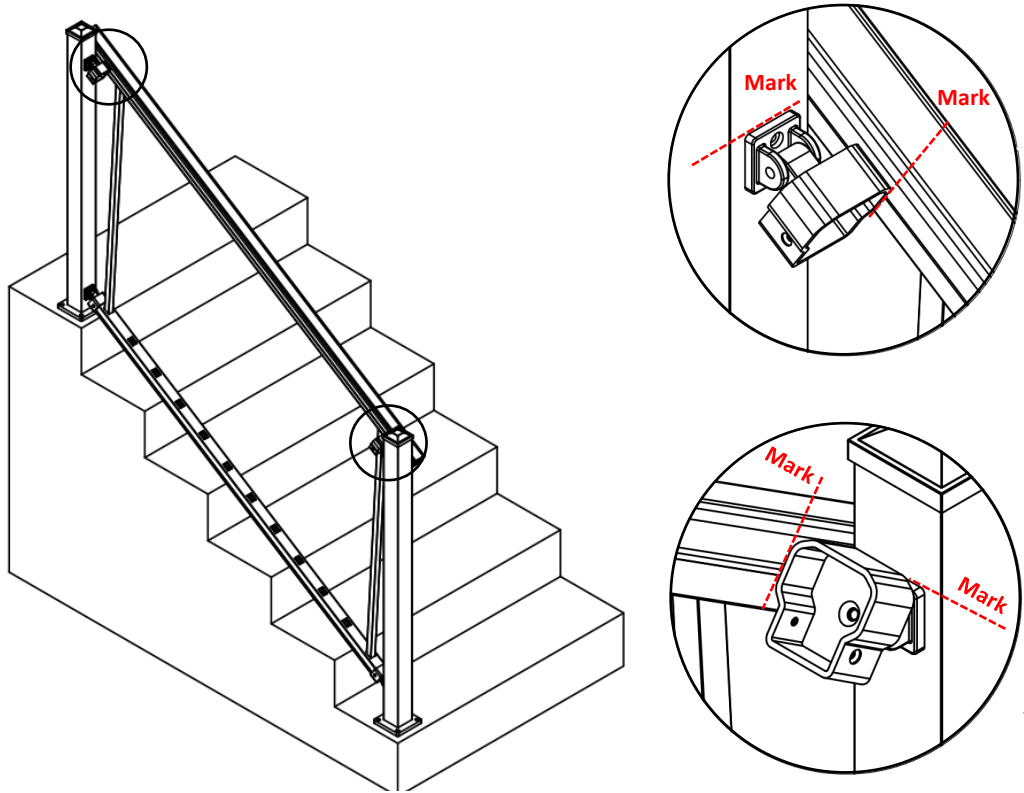
Step 2: Cut and secure bottom rail

- 2.1 Put the bottom bracket back on the base, then place the bottom rail on the board to adjust the position, and mark the rail according to the position of the bracket end.
- 2.2 According to the cutting position of both ends of the translation 24mm, cut the bottom rail.
- 2.3 The bottom rail is first installed on the end of the rail, and the bracket is matched with the bottom seat. The bracket and the base are fixed by using the child and the mother nails respectively. The bracket and the bottom rail are fixed by using two #8 3/4 "cross countersunk screws respectively



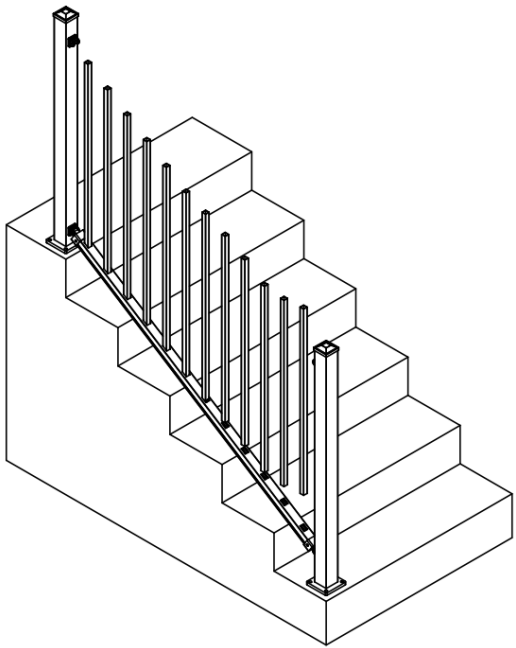
Step 3: Install the universal bracket and cut the top rail

- 3.1 Install the two small rods at the most ends into the bottom rail, and the top rail into the small rod. Adjust the appropriate position and fix the rail on the side of the post with a quick clamp.
- 3.2 After the top universal bracket is pre-installed, the appropriate Angle is adjusted, and the appropriate position is adjusted on the side of the rail. The position of the top and bottom bracket base is marked respectively, and the cutting position of the rail is marked at the edge of the bracket.
- 3.3 In accordance with step 2.2, translate the mark position by 24mm respectively to cut the top rail.
- 3.4 Secure the top bracket base using two 10# 1 "cross pan head screws at each marked position.



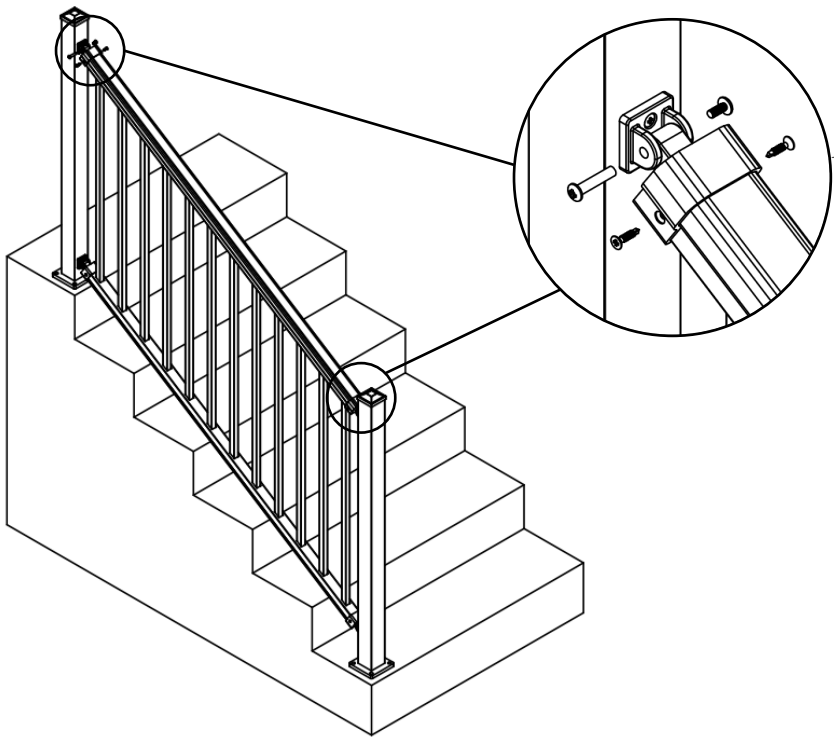
Step 5: Installation of picket

- 5.1 Remove the top rail and install all the pickets into the bottom rail.



Step 6: Installation of top rail

- 6.1 Assemble the top rail and bar, and assemble the universal bracket in the base.
- 6.2 Secure the universal bracket and base with separate screws, then secure the bracket and top rail with two #8 3/4 "cross countersunk screws.



Install post cap and post trim

- Post cap is pre-assembled onto your post. If loose use a plastic hammer or similar tool to make it tight.
- Install the post trim after all other components are installed.
- Install the post trim as following:
- Drop the glue into the holes of post trim (Do not overflow.)
- fasten the post trim and press it tight about 6 seconds.

