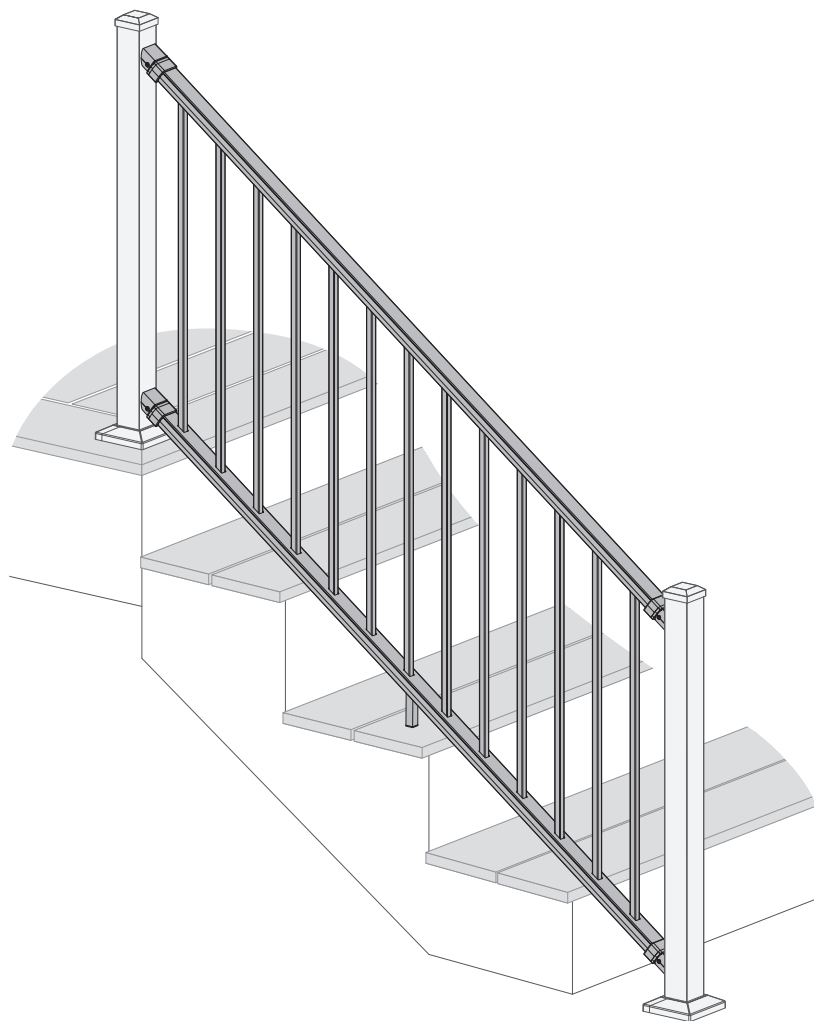




INSTALLATION INSTRUCTIONS

RAPID RAIL STAIR RAIL KIT



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PRIOR TO CONSTRUCTION:

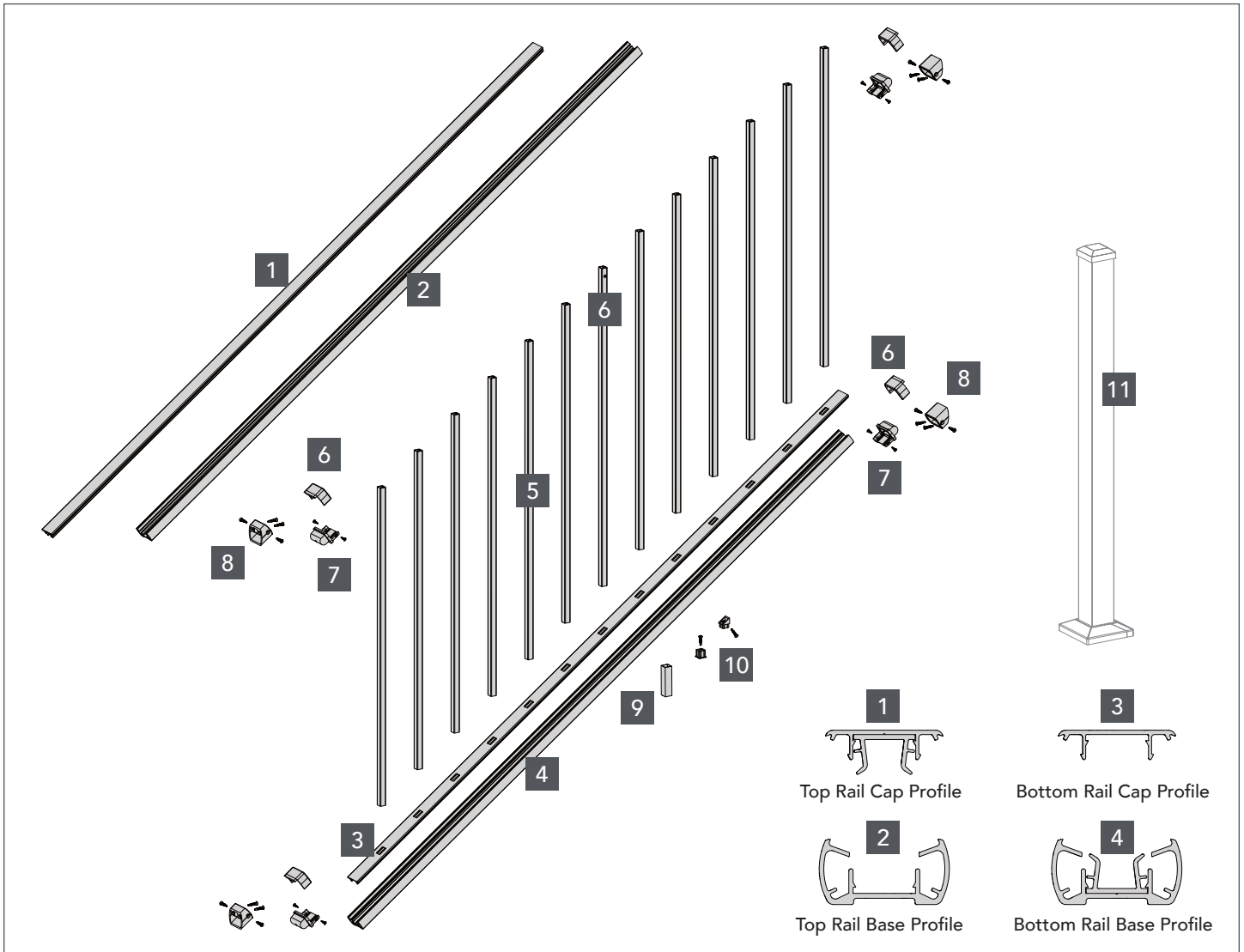
Check with your local regulatory agency for special code requirements in your area.

Read these instructions completely for an understanding of how the product fits together and how each part affects the others.

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PARTS AND TOOLS

PARTS INCLUDED



ITEM	NAME	QTY
1	Top Rail Cap	1
2	Top Rail Base	1
3	Bottom Rail Cap	1
4	Bottom Rail Base	1
5	5/8" Square Baluster	13
6	Bracket Cap	4

ITEM	NAME	QTY
7	Bracket Base	4
8	Bracket Mount	4
9	Crush Block	1
10	Crush Block Connector with #8 x 1" Screw	2
11	Post Assembly (Sold Separately)	—

HARDWARE INCLUDED	QTY
1/2" #8 Screws	8
1" #10 Screws	16

TOOLS REQUIRED

- Power Drill
- 1/8" Drill Bit
- 5/32" Drill Bit
- T20 Torx Bit (provided)
- Rubber Mallet
- Miter Saw
- Pencil
- Tape Measure
- Speed Square

INSTALLATION INSTRUCTIONS

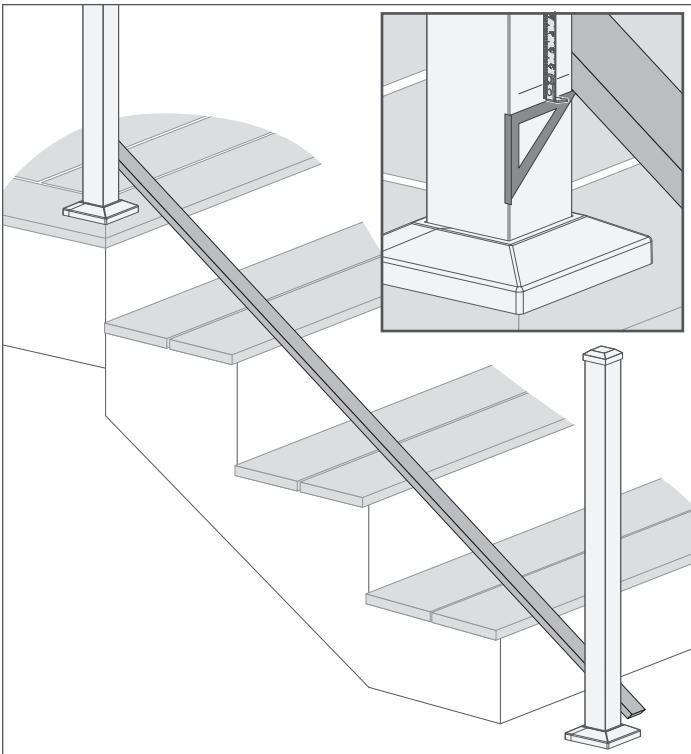
IMPORTANT NOTES

- We **STRONGLY** recommend watching the installation video before attempting installation.
- A 6" sphere must not be able to pass through bottom rail and any part of the stair tread.
- This rail kit spans a maximum of 72" between posts for a 6' kit and 93" between posts for an 8' kit. Measure parallel to the stair angle to ensure fitment.
- Check for your local building codes; typically the required height for railing is 34" to 38" (40" to 44" for the 42" kit) above the stair nose.
- The stair brackets can swivel from 27° to 42°.



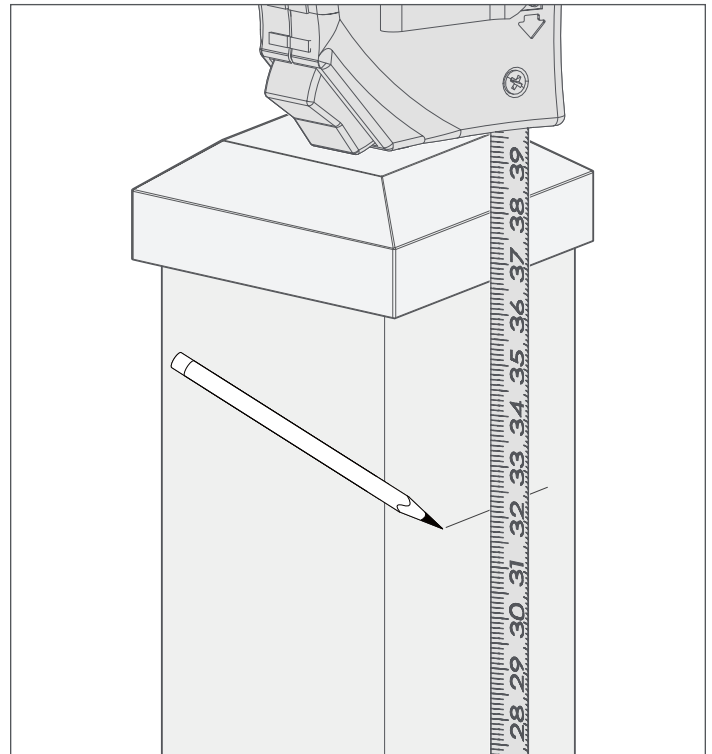
Scan for additional information and installation videos

1. DETERMINE THE BOTTOM BRACKET MOUNT PLACEMENT



1. Lay a straight edge across the stair nosing, parallel to the stair angle.
2. Mark a line on the upper post 1" above where the bottom of the straight edge touches.
3. Repeat for the other post.

2. MEASURE AND MARK THE TOP BRACKET LOCATION

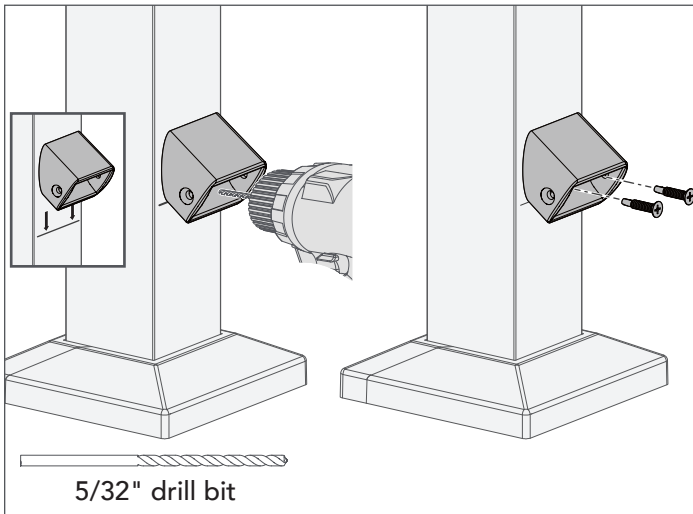


1. Measure 32-1/8" up from the mark you created in step 1 and create a mark for the top bracket mount.
NOTE: For a 42" stair kit, measure 38-1/8" up from the mark in step 1.
2. Repeat for the lower post.

3. CHECK FOR A POST SKIRT

If you are using a one-piece post skirt, install it before moving forward.

4. INSTALL THE BRACKET MOUNTS

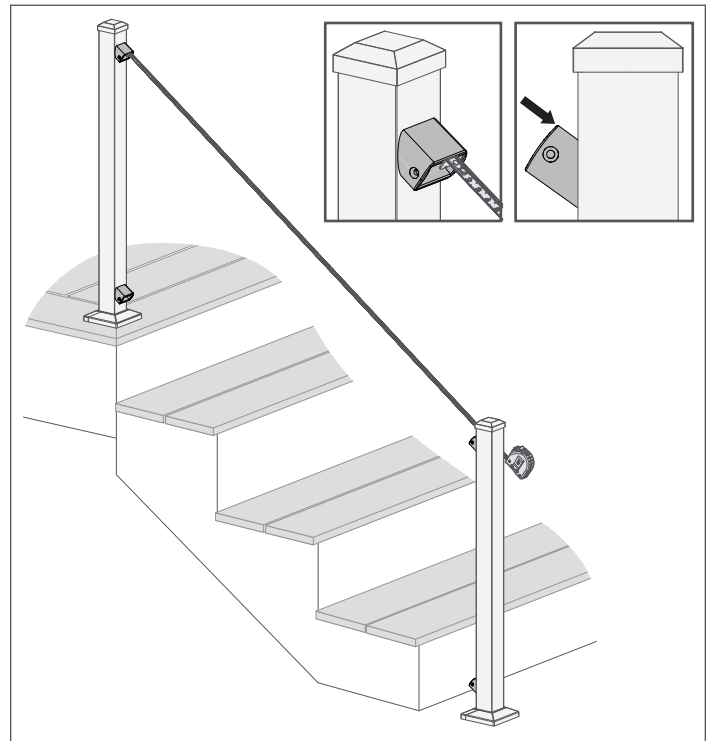


1. Align the bottom edge of the bracket mounts with the marks from steps 1 and 2.
2. Using the bracket base as a guide, drill pilot holes with a 5/32" drill bit.
3. Attach the bracket bases using two of the provided 1" screws.

NOTE: The openings of the mounts will point down for the upper post and up for the lower post.

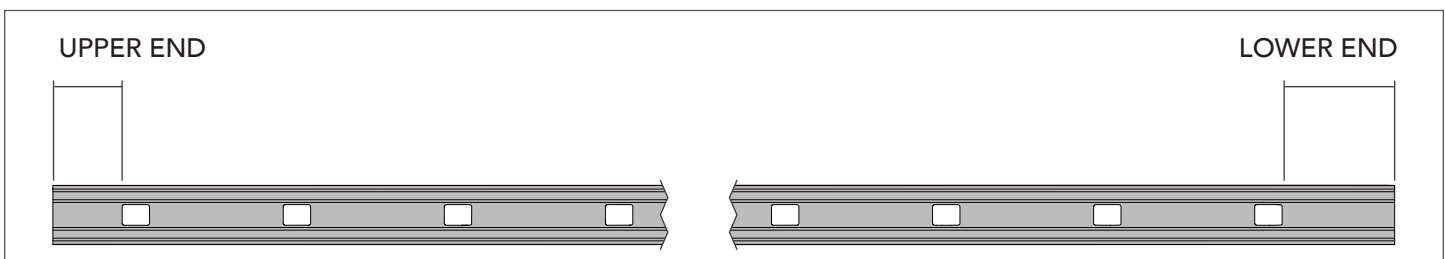
4. Repeat for all top and bottom bracket mounts.

5. MEASURE THE LENGTH FOR ALL RAILS



1. Measure the span between the top bracket mounts on each post. Be sure to measure from the middle of the front face of each bracket mount.
2. Subtract 1" from this dimension for the bracket clearance. Use this measurement to cut the rails to the correct length in step 7.

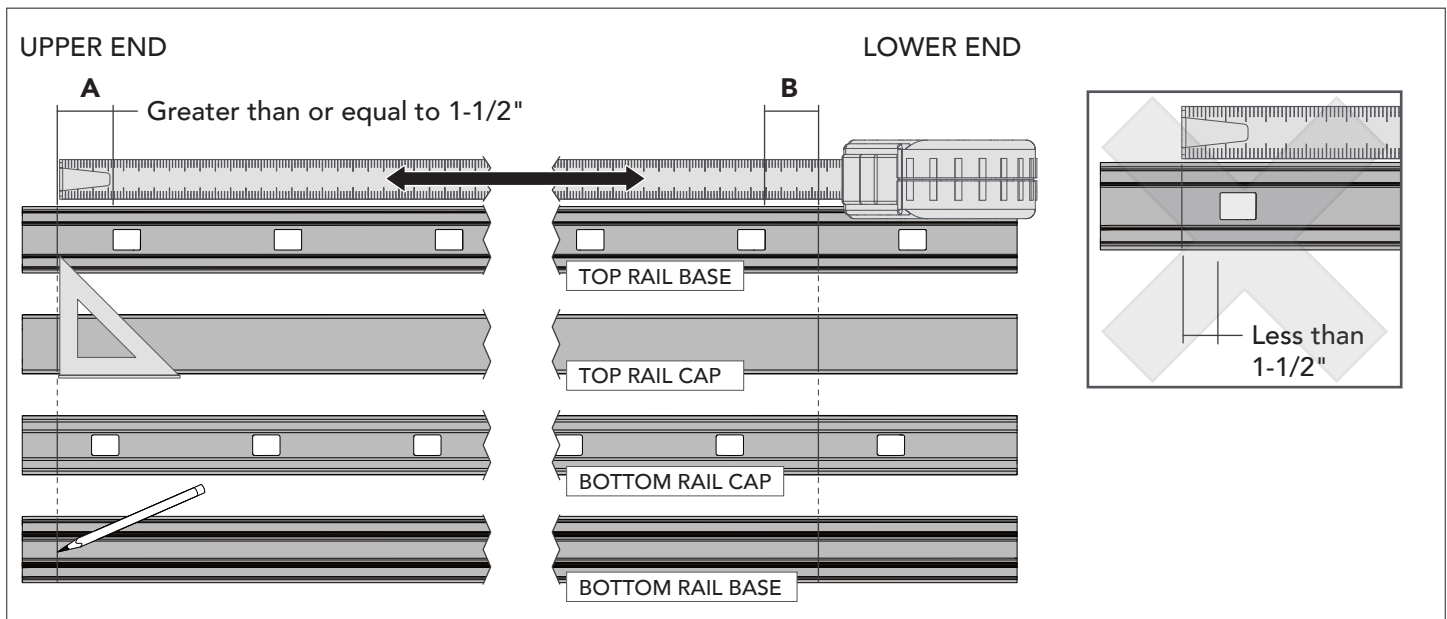
6. VERIFY ORIENTATION OF BOTTOM RAIL CAP



Determine the correct orientation of the bottom rail cap before moving forward.

IMPORTANT: The baluster holes on the bottom rail cap are shifted towards the upper end of the rail to account for the rail angle. The upper end has a smaller gap between the end of the rail and the first baluster hole.

7. TRANSFER MARKS TO ALL RAILS AND CUT



1. Lay out all of the rail sections as shown.

IMPORTANT: Make sure the orientation of the bottom rail base is correct based on step 6.

2. Measure and mark the top rail base using the adjusted span dimension from step 5. The marks should be centered between the baluster holes with equal space between the mark and the first baluster hole on both ends.
3. If the gap between your mark and a baluster hole (A) is less than 1-1/2", you must shift the tape measure until the gap is equal to or greater than 1-1/2".

NOTE: The gap between your mark and the first baluster holes on the upper end (A) and lower end (B) of the top rail base should be equal.

4. Make sure the ends of all the rails are aligned correctly.
5. Use a speed square to transfer the marks to the other rail pieces.
6. Using a miter saw equipped to cut aluminum, cut all rails and caps to the same dimensions based on your marks.
7. Cut both ends of the rails to ensure symmetry.

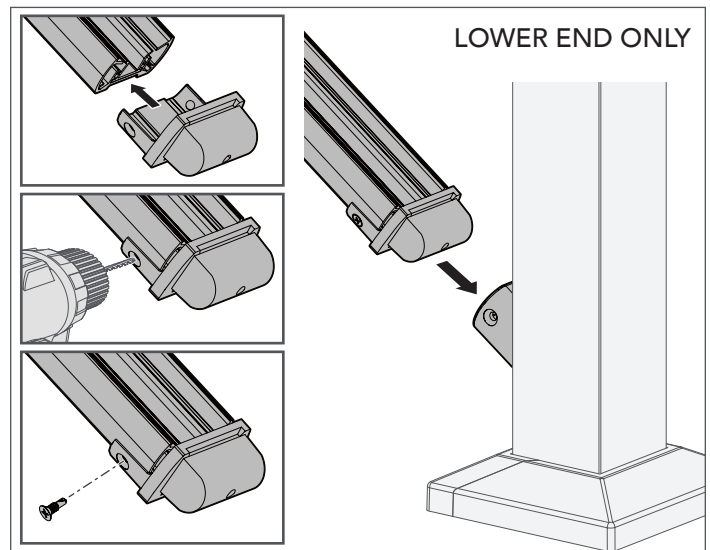
8. ATTACH THE BRACKET BASE TO THE LOWER END OF THE BOTTOM BASE RAIL

1. Position a bracket base onto the lower end of the bottom rail base.
2. Using the bracket base as a guide, drill pilot holes in the rail base with a 1/8" drill bit.
3. Attach the bracket base using two of the provided 1/2" screws.

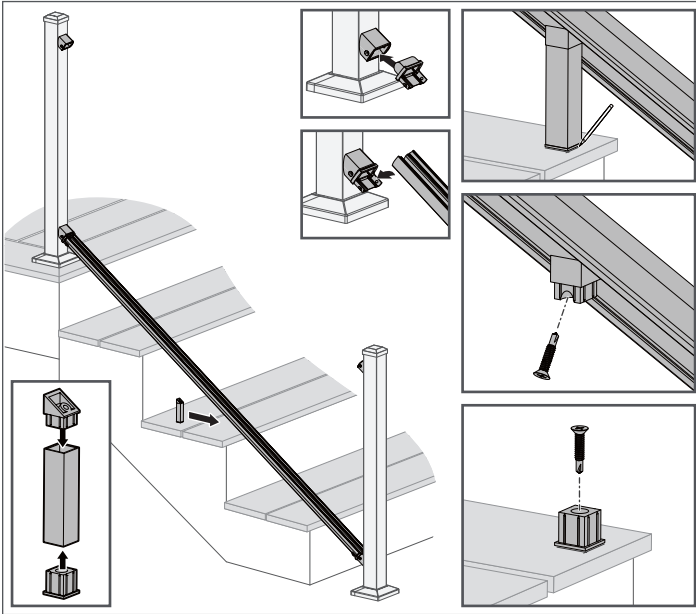
NOTE: Do not attach the bracket base to the upper end of the bottom rail base until step 9.

4. Set the bottom rail base with the attached bracket base into the bottom bracket mount on the lower post.

IMPORTANT: DO NOT ATTACH the bracket base to the bracket mount!

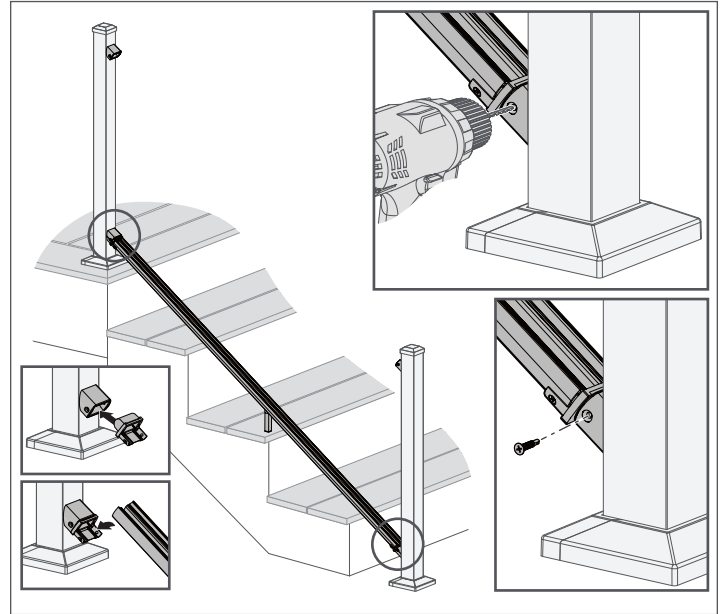


9. INSTALL THE CRUSH BLOCK



1. Set a bracket base into the bottom bracket mount on the upper post, then set the upper end of the bottom rail base into the bracket base.
NOTE: Gravity will keep the bottom rail base loosely in place.
2. Temporarily set the crush block connectors into the crush block.
3. Keeping the crush block vertical, slide the crush block assembly under the central area of the bottom rail base until it hits both the stair tread and the bottom rail base. Mark the position of the connectors.
NOTE: The 8' kits require two crush blocks evenly spaced under the rail.
4. Remove the bottom rail base from the bracket mounts and the connectors from the crush block.
5. Attach the crush block connectors to both the rail and tread surface, using a 1/8" drill bit to drill pilot holes, then attach using the provided #8 x 1" screws.

10. INSTALL THE BOTTOM RAIL BASE



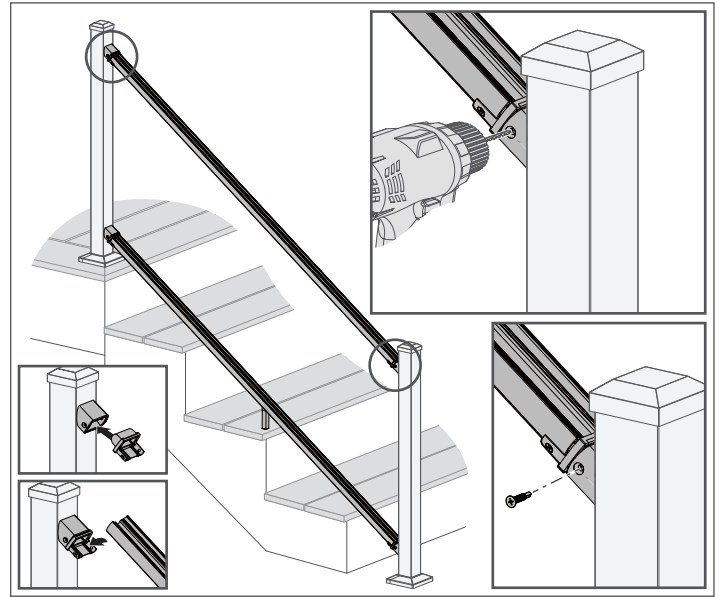
1. Set the bottom rail base into the bottom bracket mount on the lower post. Ensure that the crush block gets installed into the connectors attached in step 9.
2. Place a bracket base into the bottom bracket mount on the upper post and swivel the bottom rail base into the bracket base.
3. Attach the bracket base to the upper end of the bottom rail base using a 1/8" pilot hole and two of the provided 1/2" screws.
TIP: Use a clamp to hold the bracket bases onto the bottom rail base during installation.
4. Secure the bracket bases to the bracket mounts through the holes in the side of the bracket mount using a 5/32" pilot hole and two of the provided 1" screws.

11. ATTACH THE BRACKET BASES TO THE TOP BASE RAIL AND INSTALL

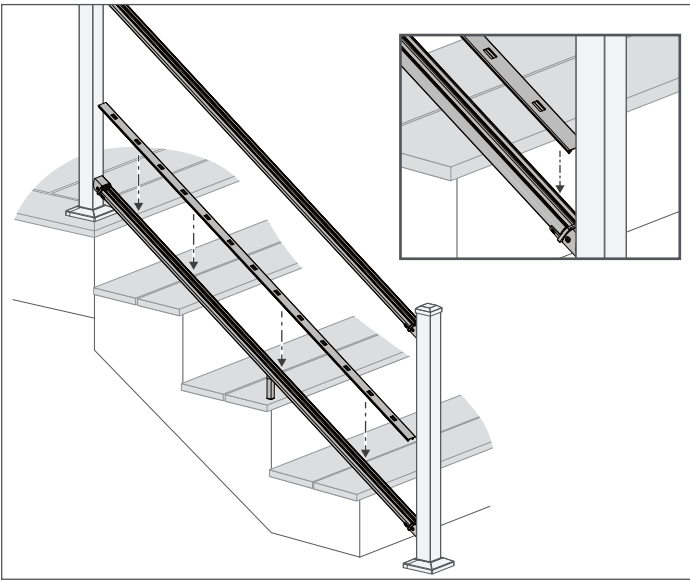
1. Attach a bracket base to the lower end of the top rail base using a 1/8" pilot hole and two of the provided 1/2" screws.
2. Set the top rail base with the attached bracket base into the top bracket mount on the lower post.
3. Place a bracket base into the top bracket mount on the upper post and swivel the top rail base into the bracket base.
4. Attach the bracket base to the upper end of the top rail base using a 1/8" pilot hole and two of the provided 1/2" screws.

TIP: Use a clamp to hold the bracket bases onto the top rail base during installation.

5. Secure the bracket bases to the bracket mounts through the holes in the side of the bracket mount using a 5/32" pilot hole and two of the provided 1" screws.



12. INSTALL THE BOTTOM RAIL CAP

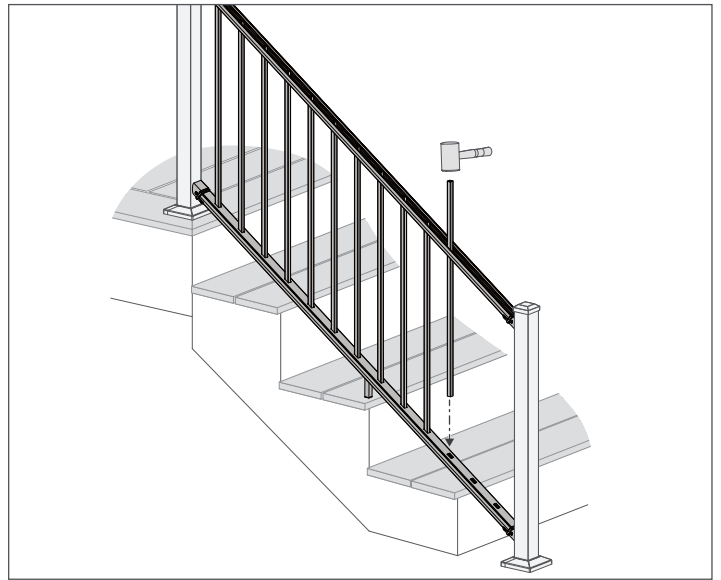


IMPORTANT: This rail is directional. The bottom rail cap has baluster cutouts that are shifted to account for the rail angle.

1. To ensure the balusters are parallel, install the bottom rail cap with the correct orientation as shown in step 6.
2. Press the bottom rail cap into the bottom rail base.

TIP: Use a rubber mallet if necessary. Start at one end and work down the rail for an easier installation.

13. INSTALL THE BALUSTERS



1. Insert the square balusters through the top rail base and through the corresponding holes of the bottom rail cap.
2. Use a rubber mallet to fully seat the balusters into the baluster compressor in the bottom rail.

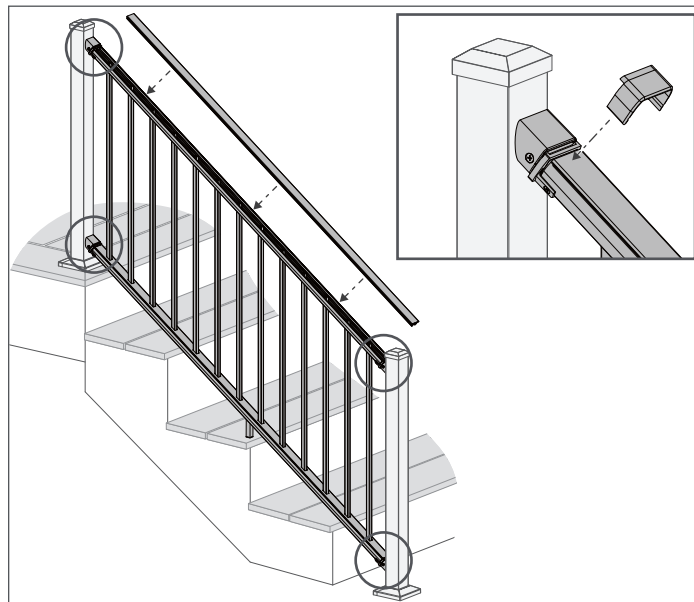
14. INSTALL THE TOP RAIL CAP AND THE BRACKET CAPS

1. Press the top rail cap into the top rail base, ensuring that the ends are aligned.

TIP: Use a rubber mallet if necessary. Start at one end and work down the rail for an easier installation.

2. Press the bracket caps into place on the top and bottom bracket bases.

TIP: Use a rubber mallet if necessary.



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