REVIVAL + Railing

Installation Instructions & User Guide

RPRV.V1.04.23.2024

Thank you!

Congratulations on your new Revival Plus railing! We are so glad you chose to work with us, and we can't wait for you to start enjoying your amazing new outdoor space. If you have any questions or need further help with installation, please contact your retailer.

Please Note:

It is the installer's responsibility to understand and adhere to local building codes and safety requirements, and to obtain all required building permits before installing. All of our straight level aluminum railing sections 8 feet long and below meet IRC and IBC building codes. The purchaser and installer should review the intended use of the products with a licensed professional engineer to determine code compliance. Revival Railing and your retailer are not liable for improper or unsafe installations of this product.

We recommend 2 people for assembly.

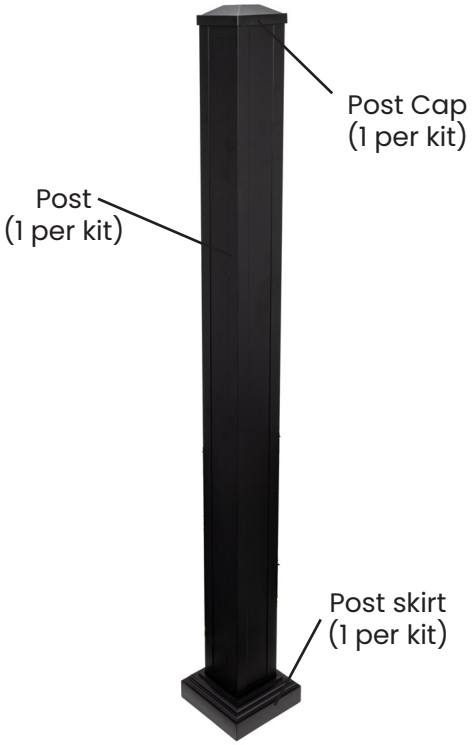
Required Tools for Assembly

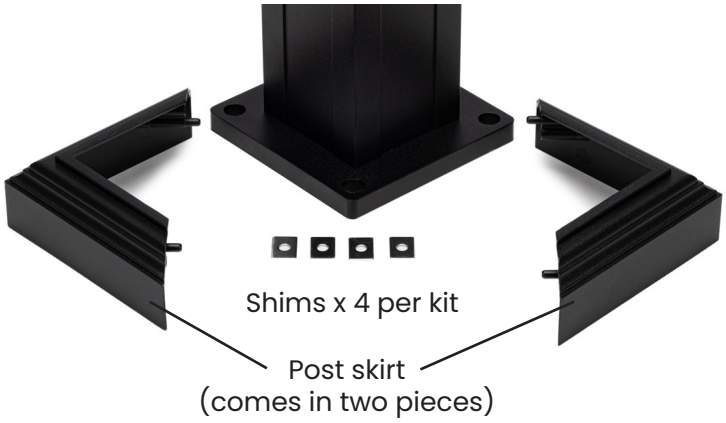
- Miter saw with a high tooth count carbide blade
- Safety glasses
- Silicone adhesive
- Pencil
- Drill
- 5/32-inch drill bits
- Screwdriver
- Measuring tape
- Level
- Revival Touch-Up Paint
- At least two 2-3/4-inch blocks of wood to use as temporary supports
- A 1-inch-thick wood board as a temporary measuring support for stair railing sections

Note: When cutting any metal parts, make sure to coat the cut ends in Revival Touch-Up paint to protect the metal from corrosion.

Part I: Mount Your Posts

Post Installation Parts & Pieces





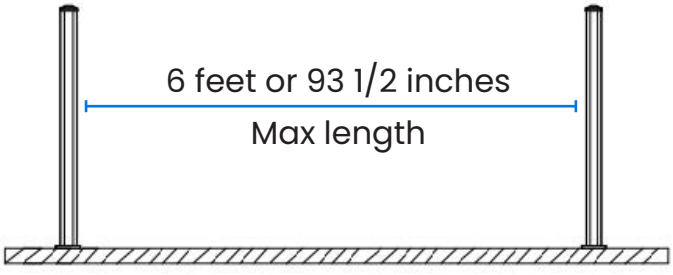
3/8-inch in diameter post mounting lag screws, bolts or anchors

- Not included - these will vary based on your mounting surface
- You'll need 4 fasteners per post
- Lag screws should be at least 5 inches long

Step 1: Determine Where Your Posts Go

Measure the perimeter of your deck and mark where each post will mount.

- If you have **6-foot rail kits**, your posts can be up to **6 feet apart.**
- If you have **8-foot rail kits**, your posts can be up to **93-1/2 inches apart.**



Don't space your posts any further apart, or your top and bottom rails will not reach!

You can cut your rails down to shorter lengths - we'll walk through measuring and cutting in Parts II and III.

Why 93-1/2 inches?

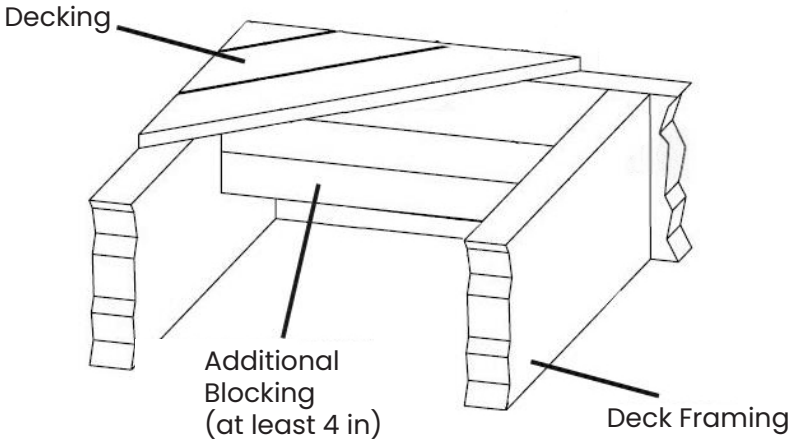
Our 8-foot rail kits use “on-center” dimensions, which means a full railing section would be 8 feet from the center of one post to the center of the next post. The “true” distance between the edges of the posts will be slightly shorter: 93-1/2-inches.

We do this to save you on shipping costs, as items 8 feet or longer cost significantly more to ship.

Step 2: Prepare Your Deck Frame With Enough Blocking Under Each Post

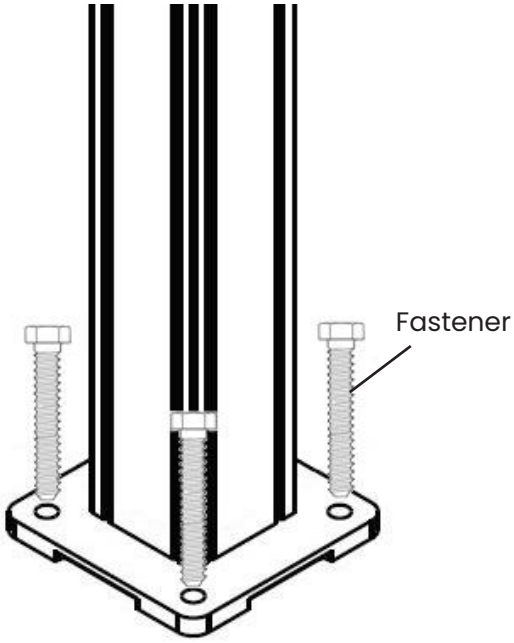
If you’re mounting posts onto a deck surface, make sure you have enough framing or blocking underneath the surface to securely hold your post.

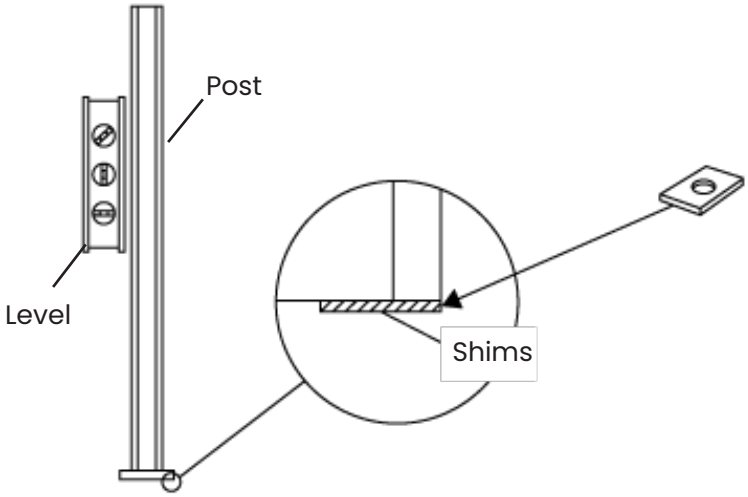
Each 5-inch post mounting lag screw should drive into at least 4 inches of solid wood - so you may need to add wood blocking to your deck frame underneath each spot you’ve marked to mount a post.



Step 3: Mount Your Posts

Attach each post to your mounting surface using four 5-inch x 3/8-inch fasteners.



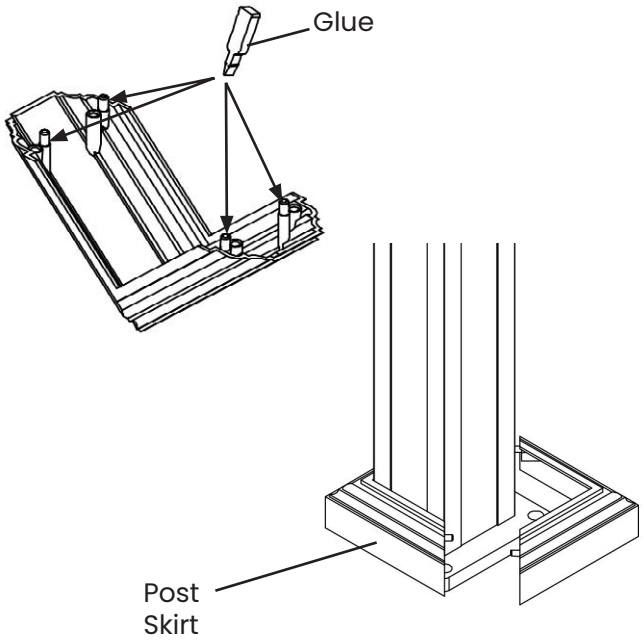


These fasteners are not included with the posts because the type of fastener needed depends on your mounting surface. To mount onto a deck surface, use 3/8-inch weather-resistant lag screws or bolts. To mount onto concrete, use concrete lag screws or anchors.

Make sure your post base is level and your post is plumb. Use shims to level the post if needed before fully seating your post-mounting fasteners.

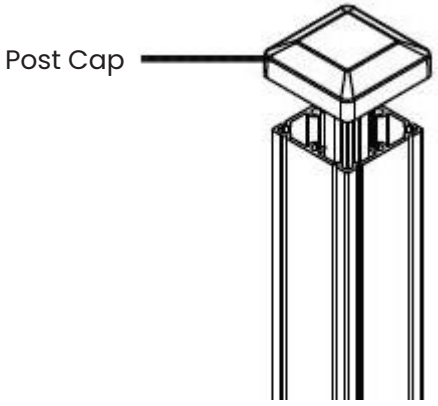
Step 4: Install Post Skirts

Place a drop of glue on each of the holes in the post skirt as shown. Slide the two pieces of the post skirt together around the post to cover the hardware at the base of your post.



Step 5: Attach Post Caps

Attach a post cap to each post, using silicone adhesive on the top of the post to secure the cap in place.



Part II: Install Level Railing Sections

Level Rail Section Parts & Pieces

Bottom Rail
(1 per kit)

Top Rail
(1 per kit)

Balusters
(15 per 6ft kit)
(20 per 8ft kit)

Top Rail
End Spacer
(2 per kit)

(slightly shorter - marked with a red dot)

Top Rail Spacer
(14 per 6ft kit)
(19 per 8ft kit)

Top Rail Bracket
includes removable
top rail cover
(2 per kit)

Bottom Rail
Bracket
(2 per kit)

Post-to-Bracket
Screws
(10 per kit)

Rail-to-Bracket
Screws
(4 per kit)

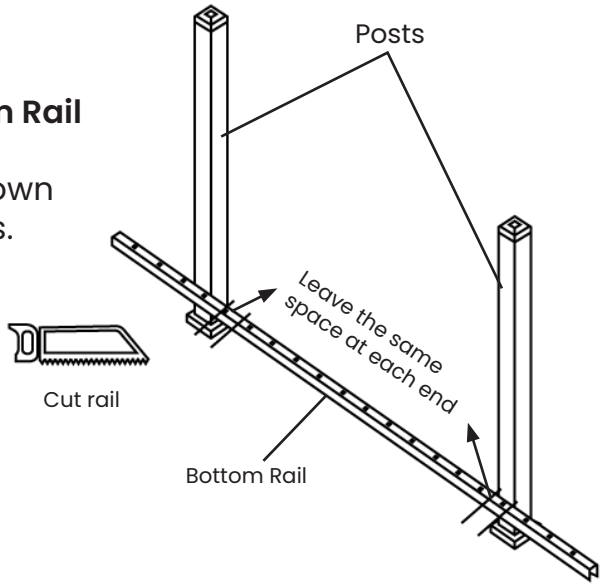
Foot Block & Screws
(unassembled in picture)

Please note: These instructions are for railing sections in a straight line or at 90-degree angles. If you have any unique angles in your railing, check out Part IV for additional instructions.

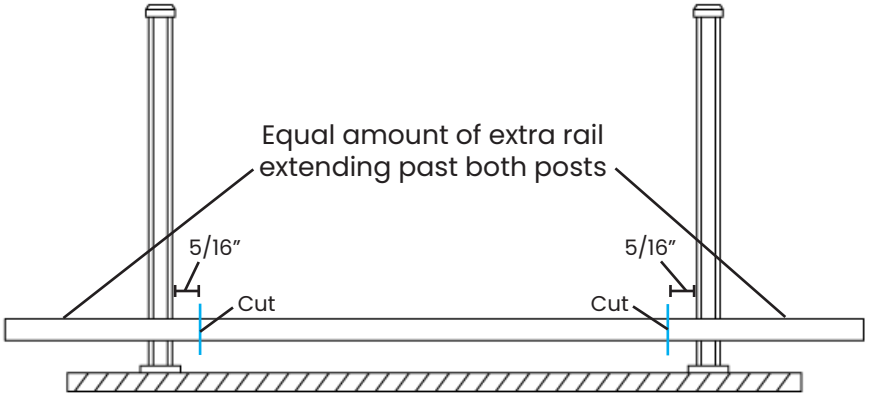
Part IIA: Install Bottom Rails

Step 1: Measure & Mark Cut Lines On Your Bottom Rail

Lay your bottom rail out next to your posts as shown here to measure the distance between two posts.



Center your bottom rail so there's an equal amount of extra rail extending past both posts. This will ensure that your balusters are evenly spaced from each post.



Mark your bottom rail 5/16 of an inch away from the post on each side. This 5/16-inch is to account for the brackets that will attach the rail to the post.

Pro Tip: As long as your posts are plumb, measure as close to the deck surface as possible to get the most accurate measurement.

Step 2: Cut Bottom Rail To Fit Between Posts

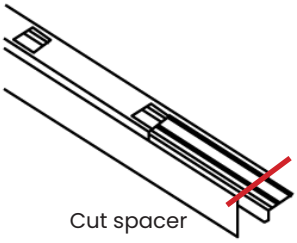
Using a miter saw and a carbide-tipped blade with a high tooth count, cut your bottom rail from both ends at the cut marks you just made. Coat the cut ends in Revival Railing touch-up paint to protect them from corrosion.

Step 3: Cut End Spacers For Your Top Rail

For level sections, your bottom rail has pre-punched slots for each baluster. Your top rail will instead have metal spacers - regular spacers to go between balusters and special end spacers to fit between the last baluster and the post on either side of a railing panel.

Find the special end spacers, which are marked with a red dot sticker on the wrapping around them.

Using your bottom rail (already cut down to size) as a guide, cut your end spacers to the proper length. Slide the end spacer into one end of your bottom rail. Line up the edge of the spacer with the edge of the first pre-punched baluster slot. Then mark the spacer where it lines up with the end of the bottom rail, as shown below:

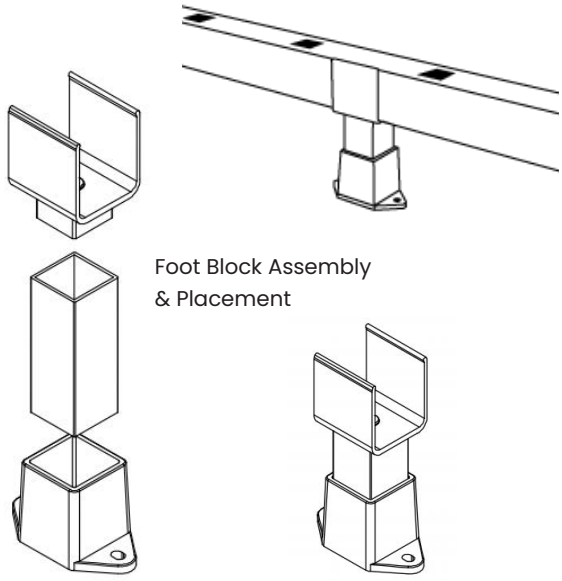


Cut your spacer along this line. Do the same thing for the other end spacer using the other end of the bottom rail. Set these spacers aside to use when installing the top rail.

Step 4: Attach Foot Block To Bottom Rail

Find the center of your bottom rail and attach the foot block to it, with the bottom rail sitting in the U-channel at the top of the foot block.

The foot block comes apart in three pieces; if you need to adjust the height, you can cut the middle piece to size.



Step 5: Insert Bottom Rail Into Bottom Brackets At Both Ends

Slide your bottom rail brackets onto both ends of the bottom rail.

Set the bottom rail on 2-3/4-inch blocks of wood at both ends to hold it in place between your two posts.

Step 6: Mark Bracket Locations On Your Post

Mark your posts where the screw holes in the brackets line up. The grooves in the post can help you make sure your brackets are centered and level.

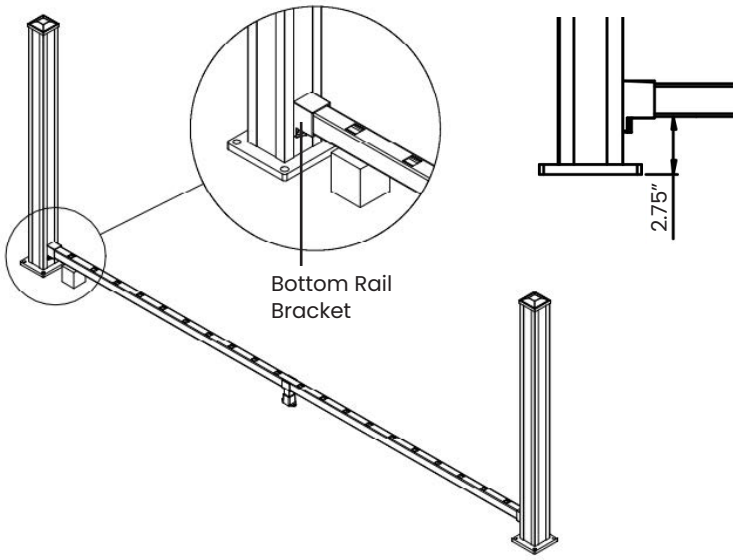
Step 7: Pre-Drill Holes Into Your Posts

Remove the bottom rail and brackets. Use a 5/32-inch drill bit to pre-drill holes into your posts.

Step 8: Attach Bottom Rail And Brackets To Posts At Both Ends

Put the bottom rail and bottom rail brackets back in place and attach the brackets to each post using the included post-to-bracket screws.

Then attach the foot block to your deck surface with the included foot block screws.



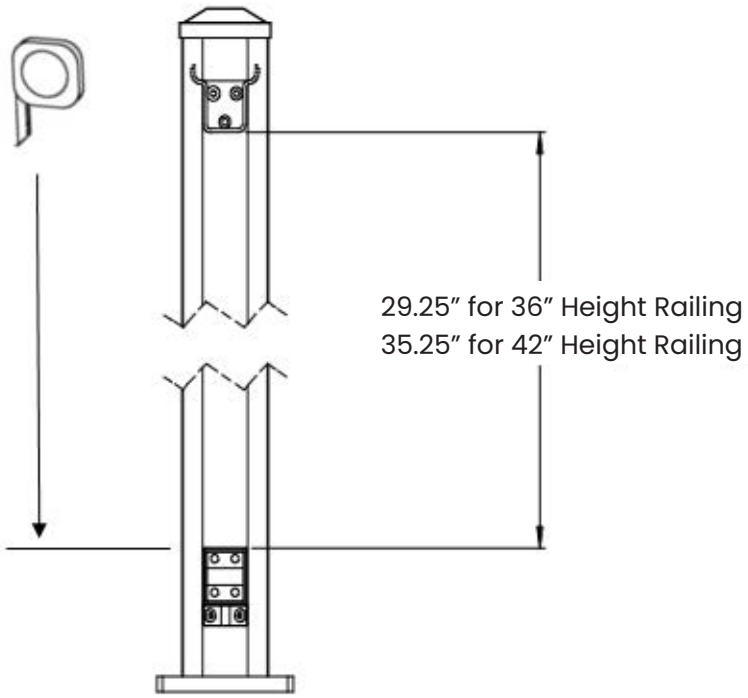
Part IIB: Install Top Rails

Step 1: Mark Top Rail Bracket Locations on your Posts

Starting at the top edge of your bottom rail brackets, measure upwards the following distance and make a mark:

- For 36-inch tall railing, measure up 29-1/4 inches and make a mark
- For 42-inch tall railing, measure up 35-1/4 inches and make a mark

This mark is where the bottom edge of your top rail bracket should line up.



Step 2: Pre-Drill Holes Into Your Posts

Line up the bottom edge of your top rail bracket with the mark you just made. Make sure the bracket is level and hold it in place. Mark your posts where the screw holes in the brackets line up.

Remove the brackets. Use a 5/32-inch drill bit to pre-drill holes into your posts.

Step 3: Attach Top Rail Brackets To Posts

Remove the top rail covers from the top of each bracket and set them aside. Use the included post-to-bracket screws to attach your top rail brackets to your posts.

Step 4: Cut Top Rail To Fit Between Posts

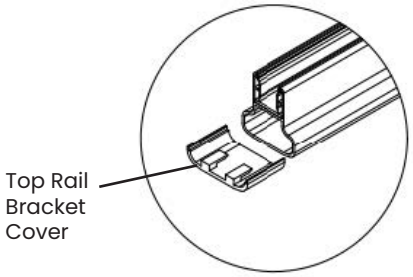
Measure the distance between posts (not between brackets) and subtract 5/8-inch.

Using a miter saw and a carbide-tipped blade with a high tooth count, cut your top rail to this length. Coat the cut end in Revival Railing touch-up paint to protect it from corrosion.

Take the end spacers you cut down earlier and snap them into each end of the top rail.

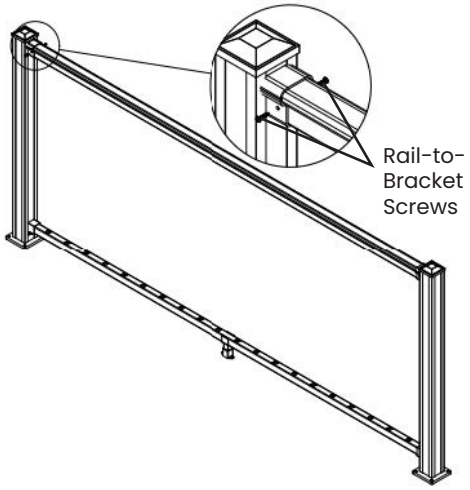
Step 5: Attach Bracket Covers To Each End of Top Rail

Insert the top rail bracket covers onto each end of your cut top rail.



Step 6: Attach Top Rail To Brackets

Place the top rail into your top rail brackets at both ends. Fasten the rail to the bracket using the rail-to-bracket screws.



Part IIC: Install Balusters

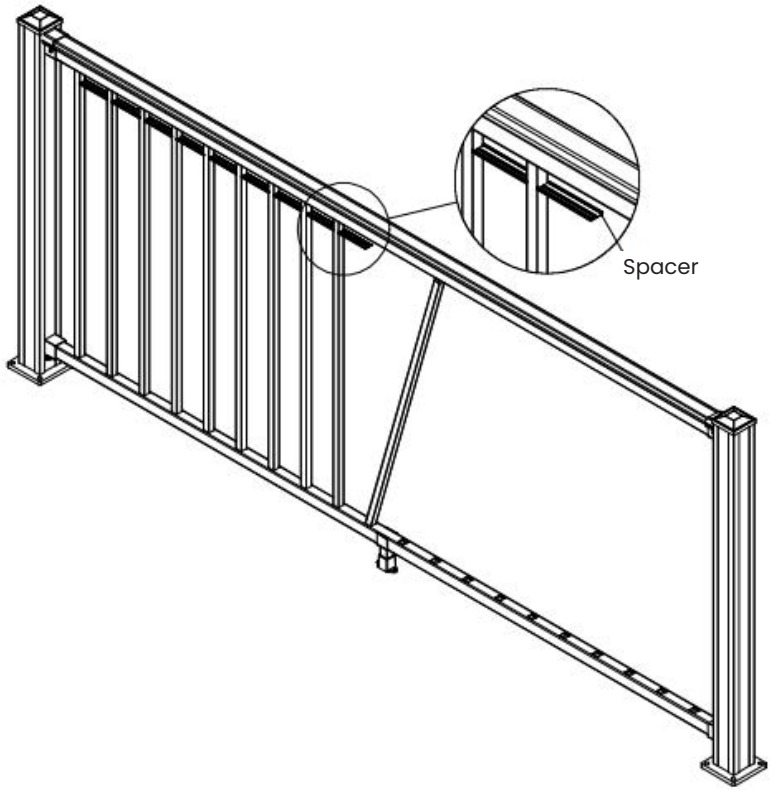
Step 1: Snap First End Spacer Into Place and Insert First Baluster

Find the first end spacer you cut down in Part IIA, Step 3. Snap it into place at the end of your top rail.

Slide a baluster at an angle into the first pre-punched hole in your bottom rail, then tip the baluster upwards until the top is touching the end spacer in the top rail.

Step 2: Add Spacers and Balusters One-by-One Until You Have Four Balusters Left

Snap a regular spacer into place next to the first baluster. Then install the second baluster in the same way - bottom first at an angle, then tipping the baluster upright into place beside the top rail spacer.



Continue adding balusters and spacers **until you have four balusters left.**

Step 3: Add Last Four Balusters - Space Them, then Add Spacers

To make sure everything spaces properly, install the last four balusters at the same time and space them evenly.

Then go back and snap in the remaining spacers, trimming them down if needed.

Part III: Install Stair Railing Sections

Stair Rail Section Parts & Pieces

Bottom Rail
(1 per kit)

Top Rail
(1 per kit)

Balusters
(15 per 6ft kit)
(20 per 8ft kit)

Top & Bottom Rail
End Spacer
(4 per kit)

(slightly shorter - marked with a red dot)

Bottom Rail
Bracket
(2 per kit)

Bottom Rail
Bracket Base
(2 per kit)

Top Rail Bracket
(2 per kit)

Top Rail
Bracket Base
(2 per kit)

Top & Bottom Rail
Spacer
(28 per 6ft kit)
(38 per 8ft kit)

Post-to-
Bracket Screws
(8 per kit)

Rail-to-
Bracket
Screws
(8 per kit)

Bracket-Hinge bolt
assemblies
(four long hollow bolts
& four short bolts - all
with hex heads)

Allen Wrench
(1 per kit)

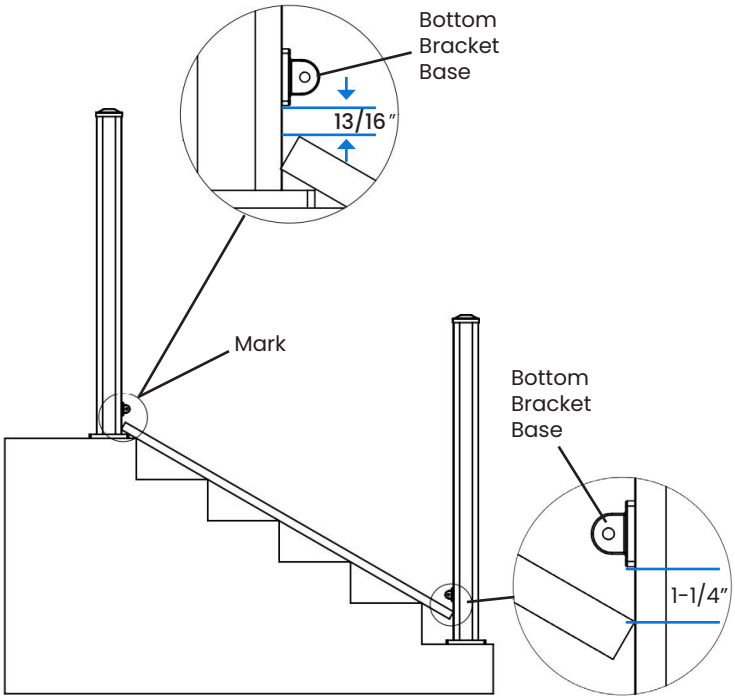
Part IIIA: Install Bottom Rails

Step 1: Mark Bottom Bracket Locations On Your Posts

Lay your 1-inch-thick piece of wood on your stair treads to mark the slope of your stairs.

Place one end of the board against the post at the top of your stairs. **Measure 13/16-inch up from the board and make a mark on your top-of-stairs post.** This is where the bottom of your bracket base will attach.

Place the end of the board against the post at the bottom of your stairs. **Measure up 1-1/4-inch from the and make a mark on your bottom-of-stairs post.** This is where the bottom of your bracket base will attach.



Step 2: Pre-Drill and Attach Bottom Rail Brackets

Starting at the top of your stairs, hold your bottom rail bracket base in place, with the bottom of the bracket base aligned on the mark you made. Make sure the bracket base is level, then mark where the screw holes line up on your post.

Use a 5/32-inch drill bit to pre-drill holes into your posts. Then attach your bracket base to the post using the included post-to-bracket screws.

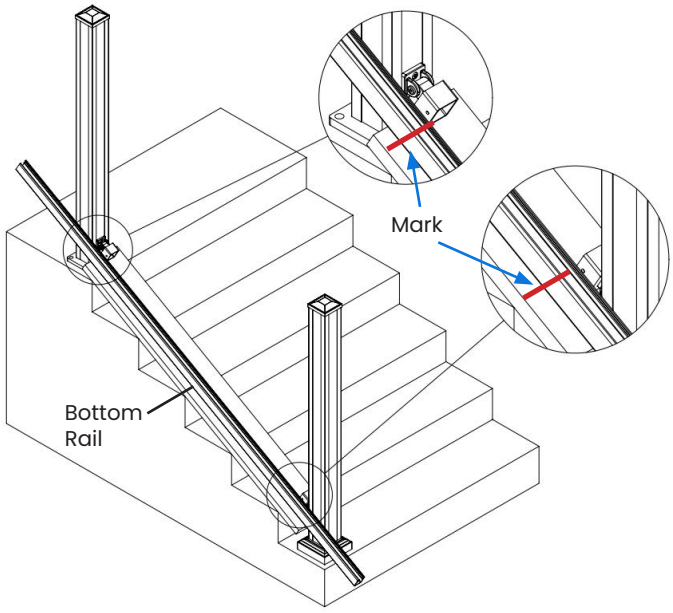
Repeat this step for the post at the bottom of your stairs.

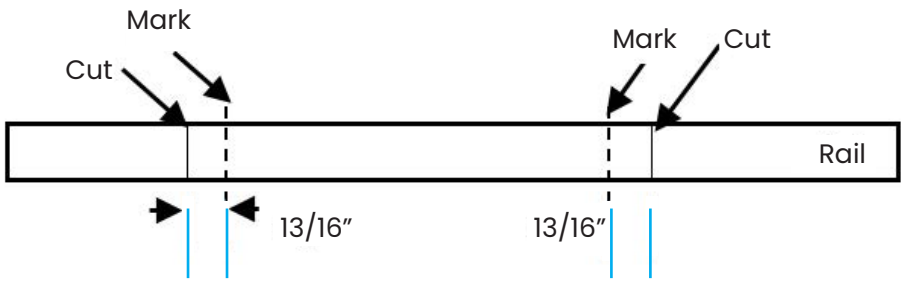
Step 3: Cut Bottom Rail To Fit Between Posts

Use the bracket-hinge bolt assembly to temporarily attach your bottom brackets to your bottom bracket bases on both posts for measuring purposes.

Lay your bottom rail in place, running down your stairs alongside both brackets.

Gently mark your bottom rail where it meets the edge of your bracket at each end. **Measure 13/16-inch from that mark (towards the end of the rail) and make a second mark - this second mark is your cut mark.**

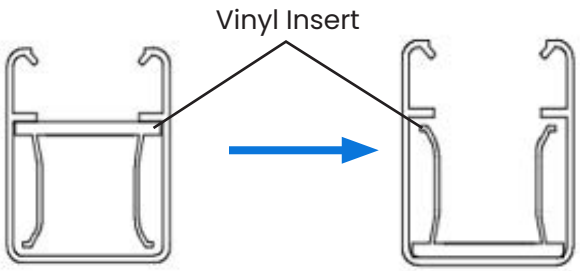




Using a miter saw and a carbide-tipped blade with a high tooth count, cut your bottom rail from both ends at the cut marks you just made. Coat the cut end in Revival Railing touch-up paint to protect it from corrosion.

Step 4: Install Vinyl Insert Into Bottom Rail

Remove the vinyl insert in your bottom rail, flip it upside down, and insert it back in place, following the diagram below:



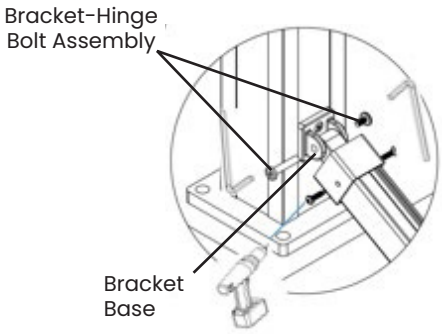
How you'll receive it Flip it upside down

Step 5: Attach Bottom Rail Brackets To Bottom Rail

Remove the bracket-hinge bolt assembly and detach your bottom rail bracket from the bottom rail bracket base. Then slide the bottom rail brackets onto both ends of your bottom rail. Fasten the bracket to the rail from the sides of the bracket using the rail-to-bracket screws.

Step 6: Attach Bottom Rail Brackets To Bracket Bases

Place your entire bottom rail into place between your posts. Use the bracket-hinge bolt assembly to attach the bracket on each end to the bracket base, locking your bottom rail in place between the two posts.



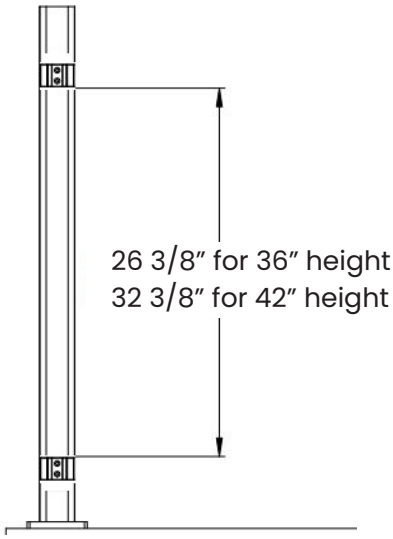
Part IIIB: Install Top Rails

Step 1: Mark Top Rail Bracket Base Locations on your Posts

Starting at the top edge of your bottom rail bracket bases, measure upwards the following distance and make a mark:

- For 36-inch tall railing, measure up 26-3/8 inches and make a mark
- For 42-inch tall railing, measure up 32-3/8 inches and make a mark

This mark is where the bottom edge of your top rail bracket base should line up.



Step 2: Pre-Drill Holes Into Your Posts

Line up the bottom edge of your top rail bracket base with the mark you just made. Make sure the bracket base is level and hold it in place. Mark your posts where the screw holes in the bracket bases line up.

Remove the bracket bases. Use a 5/32-inch drill bit to pre-drill holes into your posts.

Step 3: Attach Top Rail Bracket Bases To Posts

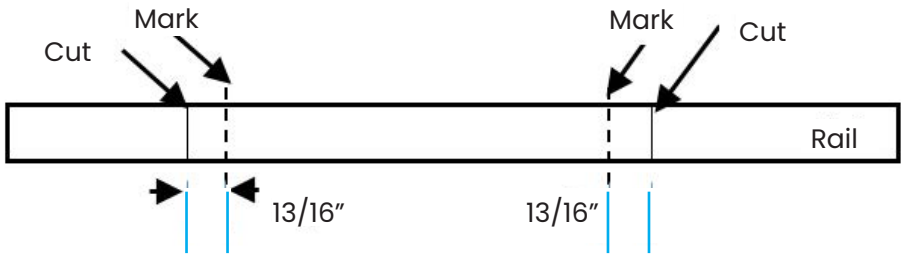
Use the included post-to-bracket screws to attach your top rail bracket bases to your posts.

Step 4: Cut Top Rail To Fit Between Posts

Use the bracket-hinge bolt assembly to attach your top brackets to your top bracket bases on both posts.

Hold your top rail in place, running down your stairs alongside both brackets.

Gently mark your top rail where it meets the edge of your bracket. **Measure 13/16-inch from that mark (towards the end of the rail) and make a second mark - this second mark is your cut mark.**



Using a miter saw and a carbide-tipped blade with a high tooth count, cut your top rail from both ends at the cut marks you just made. Coat the cut end in Revival Railing touch-up paint to protect it from corrosion.

Step 5: Attach Top Rail Brackets To Top Rail

Remove the bracket-hinge bolt assembly and detach your top rail bracket from the top rail bracket base. Then slide the top rail brackets onto both ends of your top rail. Fasten the bracket to the rail from the sides of the bracket using the rail-to-bracket screws.

Step 6: Attach Top Rail Brackets To Bracket Bases

Place your entire top rail into place between your posts. Use the bracket-hinge bolt assembly to attach the bracket on each end to the bracket base, locking your top rail in place between the two posts.

Part IIIC: Install Balusters

Step 1: Install First Baluster At Top of Stairs

Insert a baluster at the top of the stairs so that the top of the baluster is touching the top rail bracket. Use a level to adjust the bottom of the baluster until it's completely plumb.

Measure the distance between the bottom of the baluster and the bottom rail bracket. Cut a special end spacer to that length. Snap the spacer into place and install the baluster flush with the spacer.

Note: End spacers are marked by a special round label.

Step 2: Install the First Baluster At Bottom of Stairs

Follow the same process to install the first baluster at the bottom of the stairs. Insert this baluster so the bottom is touching the bottom rail bracket. Use a level to adjust the baluster until it's completely plumb.

Measure the distance between the top of the baluster and the top rail bracket. Cut a special end spacer to that length. Snap the spacer into place and install the baluster flush with the spacer.

Step 3: Add Spacers and Balusters One-by-One Until You Have Four Balusters Left

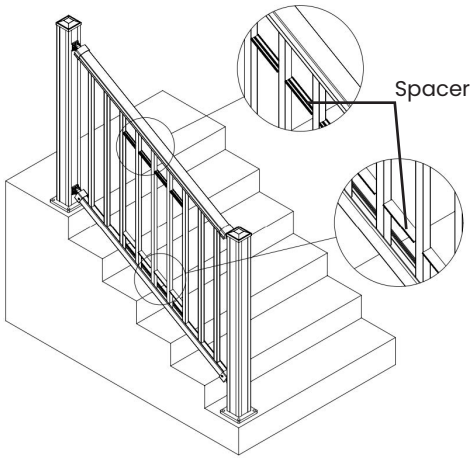
Snap a regular spacer into place next to the first baluster. Then install the second baluster flush against it. Use a level to make sure it's plumb, then snap in the next spacers and the next baluster.

Continue adding balusters and spacers **until you have four balusters left.**

Step 4: Add Last Four Balusters - Space Them, then Add Spacers

To make sure everything spaces properly, install the last four balusters at the same time and space them evenly.

Then go back and snap in the last four spacers. If you need to cut down your spacers, measure the distance between balusters and cut all four spacers down slightly to keep the spacing even.



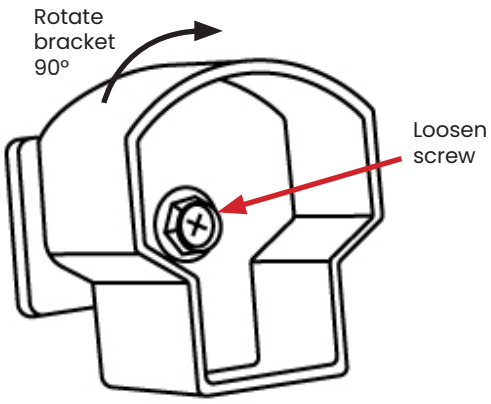
Part IV: How To Create Custom Angles

If your railing sections are all attached in straight lines or at standard 90-degree corners, attach all your brackets as described in the sections above.

If your deck railing has any unique angles that aren't 90° or 180°, you'll need to use angled brackets (used above for stair railing sections) to attach your top and bottom rails. Follow these steps first, then go back to Part II and complete any remaining steps:

Angled Connection Part #1: How To Adjust Angled Bracket To Pivot Side-To-Side

Loosen the screw inside the angled bracket until the bracket comes apart in two pieces. Rotate the bracket 90 degrees and re-attach it. Do this for the top rail brackets and bottom rail brackets.



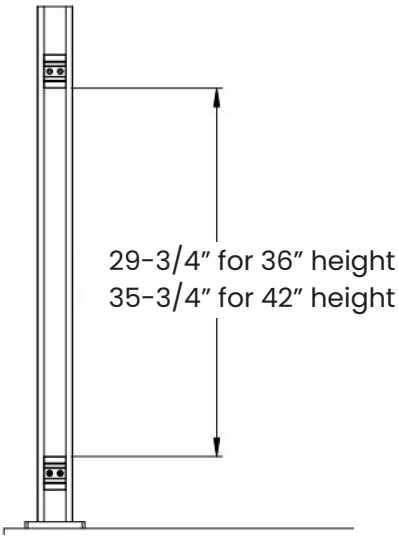
Use the bracket-hinge bolt assembly to connect the bracket to the bracket base.

Angled Connection Part #2: Attach Angle Brackets

Set your bottom angle bracket on top of a 2-3/4-inch block of wood to mark where it will attach to the post. Pre-drill holes and attach the bottom brackets.

Starting at the top edge of your bottom bracket base, measure upwards and make a mark.
For 36-inch tall railing, measure up 29-3/4 inches and make a mark
For 42-inch tall railing, measure up 35-3/4 inches and make a mark

Attach your top rail bracket here, lining up the bottom of the bracket base with your mark.

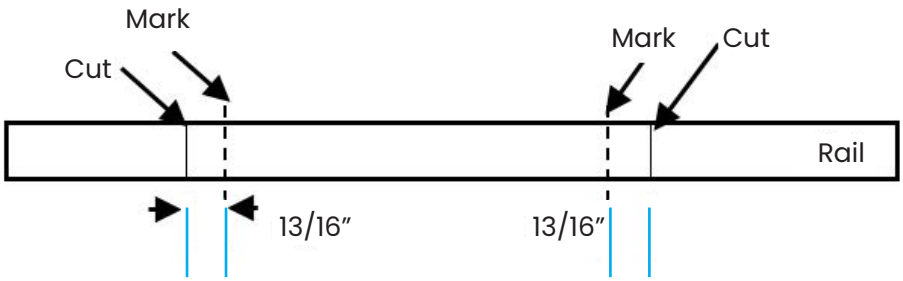


Angled Connection Part #3: When Cutting Top & Bottom Rails, Use Angled Bracket To Measure, Mark & Cut

You'll need to cut your top and bottom rails differently to account for the larger angled brackets.

With the angled brackets attached to your posts, hold your top or bottom rail in place. (For the bottom rail, center the rail so there's an equal amount of extra rail extending beyond the brackets at both ends - this will ensure that your balusters are equally spaced).

Gently mark the rail where it meets the edge of your bracket at each end. **Measure 13/16-inch from that mark (towards the end of the rail) and make a second mark - this second mark is your cut mark.**



Now, return to Part II and continue installing your railing with **Step 3: Cutting End Spacers For Your Top Rail**. You'll be able to skip a few steps about attaching brackets or cutting rails, as you've already completed these parts.

Congratulations! Enjoy your new Revival Railing!

Operation & Maintenance

We recommend cleaning your Revival Plus Aluminum Railing 2-3 times a year to prevent corrosion and extend the lifespan of your railing. Clean using a mixture of water and mild detergent (like dish soap) and a soft sponge or cloth. Wet down your railing with a garden hose, then hand wash all surfaces with the soapy water and rinse thoroughly with fresh water.

For railings near saltwater, we recommend more frequent cleaning.

Warranty Information

Your Revival Railing is covered by a 10-year limited warranty for residential installations or a 5-year limited warranty for any non-residential installation. Please reach out to your retailer for any warranty claims or questions.

Share Photos Of Your Deck Revival!

We would love to see pictures of your finished project and celebrate your amazing new outdoor space with you! Tag #RevivalRailing on social media to share your best photos. We especially love to see before & after photos so we can celebrate the transformation!