

WARNING:

- Improper installation of this product can result in personal injury. Always wear safety goggles when cutting, drilling and assembling the product.
- Incorrect installation may cause harm to the product or individual.

NOTICE:

- DO NOT attempt to assemble the kit if parts are missing or damaged.
- DO NOT return the product to the store. For assistance or replacement parts call: 1-877-265-2220.

BEFORE YOU BEGIN:

It is the responsibility of the installer to meet and/or exceed all code and safety requirements and to obtain all required building code permits.

The deck and railing installer should determine and implement appropriate installation techniques for each installation.

RDI Railing and its distributors shall not be held liable for improper or unsafe installations.

TOOLS NEEDED:

| |
|------------------------------|
| Safety goggles |
| Tape Measure |
| Pencil |
| Level |
| Power screwdriver / drill |
| 3/8" fasteners |
| Chalk line tool |
| Wood chisel or utility knife |
| 1/4" and 1/8" drill bits |

POST INSTALLATION INSTRUCTIONS
WARNING: ALWAYS WEAR SAFETY GOGGLES!

1.

LAG BOLT APPLICATION

Determine the desired rail placement and snap a line on to the deck to ensure that all posts are aligned properly (Fig. 1). Ensure sufficient mounting structure exists in the areas to receive posts and install blocking if necessary. Plumb the posts using the shims provided, secure the posts in place (Fig. 2), and install trim ring on each post.

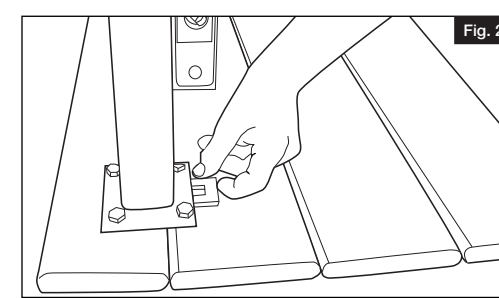
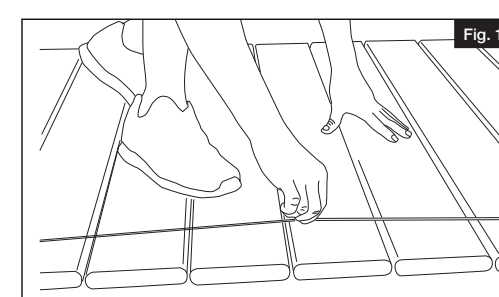
THROUGH BOLT APPLICATIONS

For through bolt applications, use the provided secondary mounting plate when securing posts in place. Drill through the mounting surface using a 3/8" drill bit. Using appropriate hardware (sold separately), align bolts through the post mounting flange and secondary mounting plate. Tighten bolts, secure in place, and install trim ring on each post.

Note: Post kits include post with connected base plate, leveling shims, post cap, 2-piece trim ring, and sandwich plate. Posts are designed and manufactured to accept 1/2" fasteners. Post mounting hardware is sold separately. Be sure to use appropriate fasteners for your installation. For commercial use, Avalon Heavy Duty posts are required. Check local building codes for load requirements.

Tip: Leveling shims can be easily cut using a wood chisel or utility knife. Please keep safety in mind during installation and ALWAYS wear safety goggles.

IMPORTANT NOTE! Some spaces between posts will result in the pre drilled upright holes being visible after the installation. When setting posts these spaces should be avoided: 65"-67.5" and 89"-91.5"



Scan for Instructions
Rechercher des instructions
Escanear para obtener instrucciones

LEVEL RAIL INSTRUCTIONS
WARNING: ALWAYS WEAR SAFETY GOGGLES!

TOOLS NEEDED:

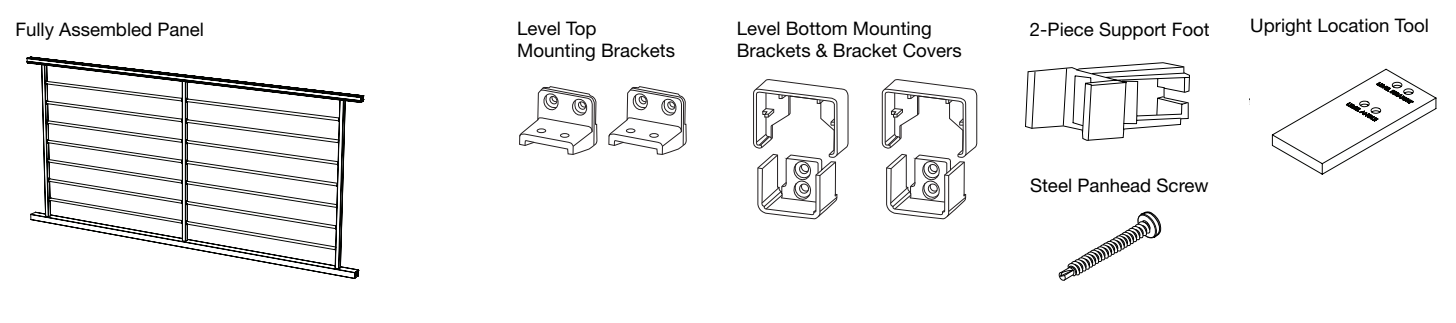
| |
|---------------------------|
| Safety goggles |
| Tape Measure |
| Pencil |
| Level |
| Power screwdriver / drill |
| Power saw |
| Rubber mallet |
| 1/4" and 1/8" drill bits |

COMPONENT LIST:

| Description |
|---|
| 1 Fully Assembled Panel |
| 2 Level Top Mounting Brackets |
| 2 Level Bottom Mounting Brackets & Bracket Covers |

| Description |
|-------------------------|
| 1 2-Piece Support Foot |
| 18 Steel Panhead Screws |
| 1 Upright Location Tool |

COMPONENTS:



1.

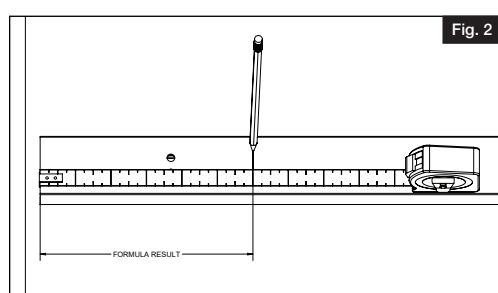
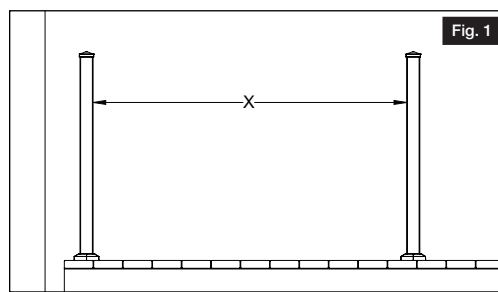
Measure the distance between your posts. Use this formula to determine the length of rail that will need to be cut (Fig. 1).

For a 6' panel: 72 - Space between posts.
For an 8' panel: 96 - Space between posts.

Divide that result by 2. Measure from the end of the rail this amount and make a mark (Fig. 2). Do this for all 4 ends of the rails.

NOTE: If the rail cutting measurement is 2.25" or less, only cut the rails. You will not need to remove the uprights or cut the rods.

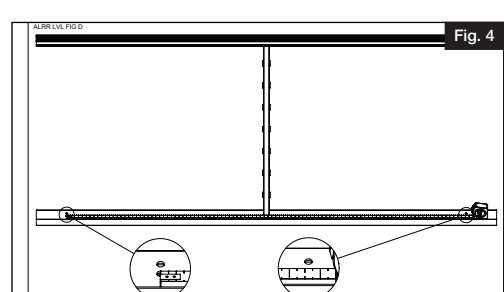
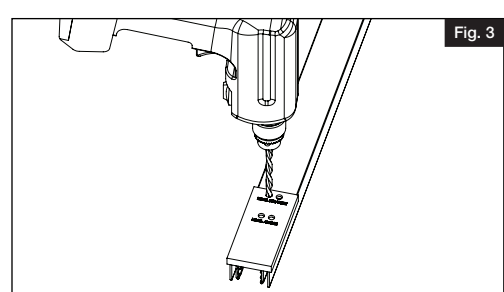
Remove all 8 screws that hold the end uprights in place. Only the end uprights need to be removed, the middle upright(s) can stay attached. Remove the uprights and rods. Cut the panel at this location on all four ends using a carbide tip blade of at least 60 teeth.



2.

Put the upright alignment tool on the end of the rail. Using the tool as a guide pre drill through the holes marked "Level Straight" pre drill the two holes with a 1/4" drill bit (Fig. 3). Repeat this for all ends of the panel.

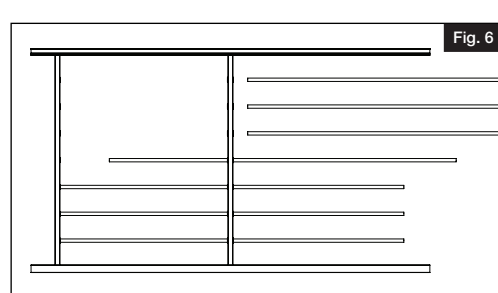
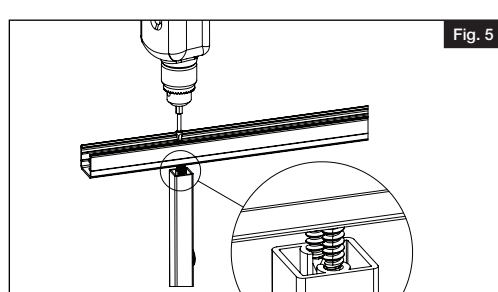
Measure the distance between the holes for the uprights. (Center of holes to center of holes - Fig. 4). Cut all the rods to this length.



3.

Re-attach one end upright using the holes drilled in the previous step and the same screws that were removed from it in step 1. Make sure the screws engage with the screw boss on the upright (Fig. 5). Do not tighten completely at this time. Insert the rods through the middle upright(s) and into the one attached end upright (Fig. 6). Be mindful of all of the grommets. If they slide out of place, slide them back into place.

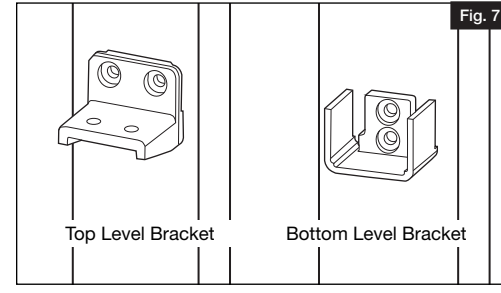
Press the second end upright onto the rods. Align it with the holes predrilled with the upright alignment tool and re-attach it. After all upright screws are aligned and started you can completely tighten all 8 at this time.



4.

Install 2 piece post base trim. Take one side of trim ring and push plastic plugs through hole underneath. Take second half of the trim ring and push together.

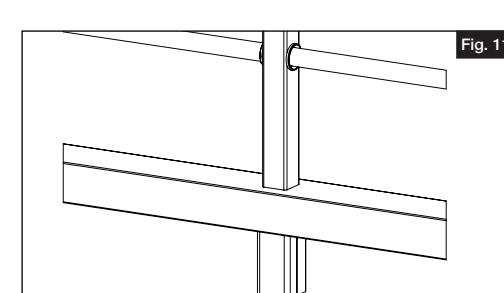
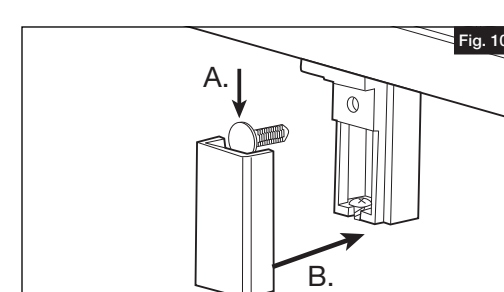
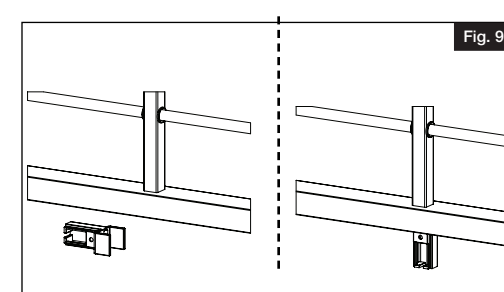
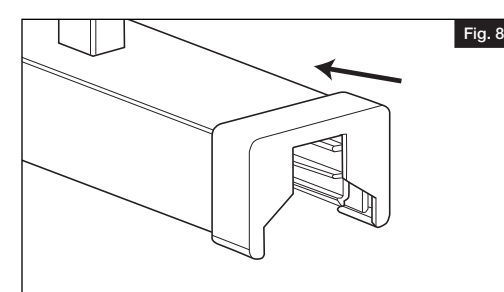
Open the paper bracket mounting template (included with brackets), align base trim with appropriate guide on template, and secure template in place using a piece of tape. Pre-drill through the desired marked locations on the template using a 1/4" drill bit. Remove template, align brackets (Fig. 7) with the holes ensuring that brackets are square, and fasten brackets in place using the 1 1/2" screws provided.



5.

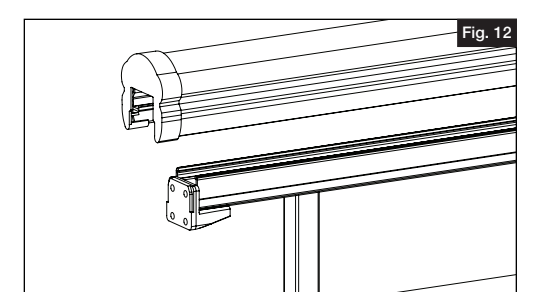
Test fit the rail panel. Once proper fit is ensured, press bottom bracket covers onto the ends of the bottom rail (Fig. 8), and set panel in place. Pivot support foot in place under the rail as shown (Fig. 9).

Secure support foot to the mounting surface using the 1 1/2" screw(s) provided and press fit cover into place using plastic plug(s) as shown (Fig. 10 & 11).



6.

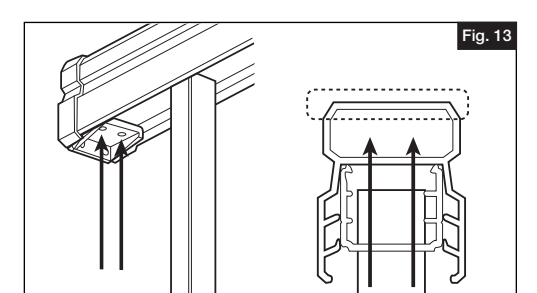
Measure the length of the rail panel and cut the top rail (sold separately) to same length. This should match the cuts in Step 1. Press top rail end covers onto the top rail and set in place on top of the panel (Fig. 12). Press down on the top rail to ensure that it fits snugly onto the panel and ensure that top rail end covers are being held in place by the mounting bracket.



7.

Using the holes in the bracket as a guide, pre-drill two 1/4" holes from under the bottom of the rail up through the top rail as shown in Figure 13. Drive two 1 3/8" screws up through the hole locking the bracket, panel, and top rail together, being careful not to drill through the top of the top rail (circled with dotted line).

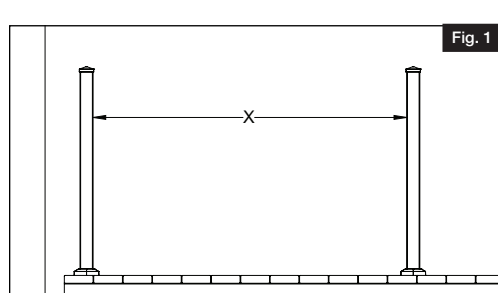
Install pyramid post top onto each post. Note: A rubber mallet may be needed for proper fit.



LEVEL ANGLE INSTRUCTIONS
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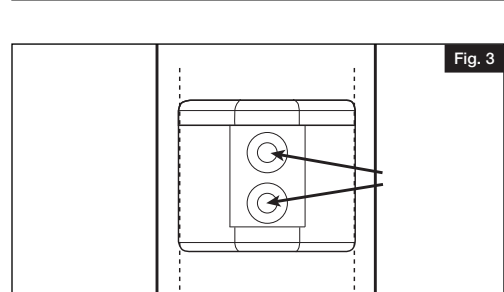
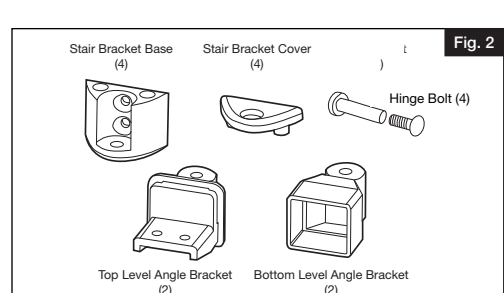
1.

Level angle rail installation uses a combination of features used in both the level and stair applications. This installation will use the same mounting base of the stair brackets and similar components, while using the preset layout on the installation template for quick and easy install. Level angle brackets must be purchased separately. Place rail panel across the opening and adjust so that the panel is centered in the space between the posts. (Fig. 1). Level angle mounting varies greatly on each installation.



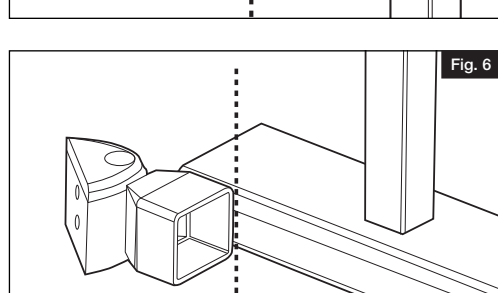
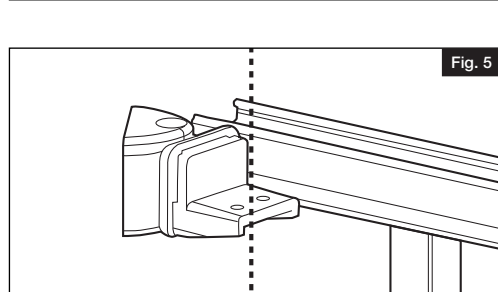
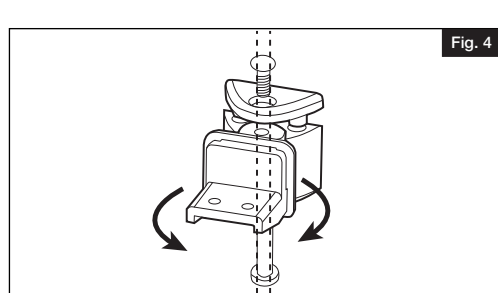
2.

Open the paper bracket mounting template (included with brackets). See Fig. 2 for level angle bracket components. Align bottom of template with top of the base trim, and secure template in place using a piece of tape. Follow instructions on template for pre-drill using a 1/8" drill bit. Remove template, align top and bottom bracket bases with covers attached (Fig. 3) with the holes ensuring that they are square, and fasten bracket bases in place using the non-painted flat-head 1 1/2" screws provided.



3.

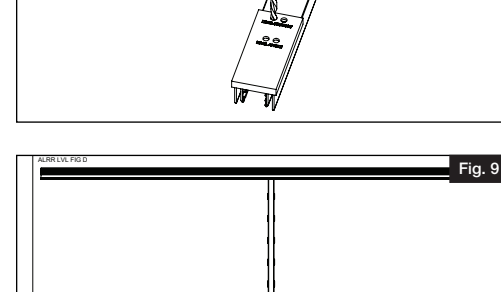
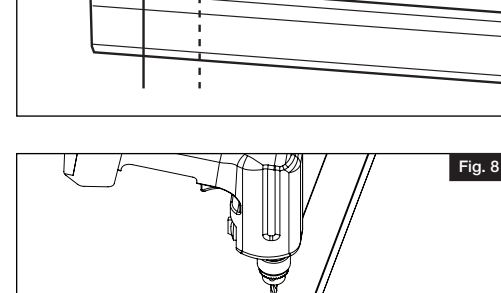
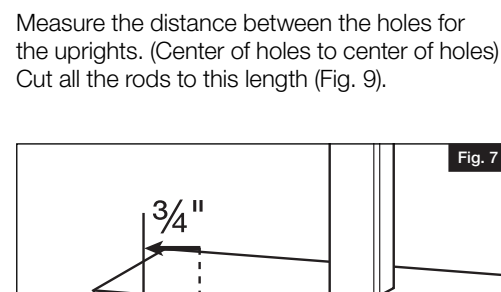
Temporarily assemble top and bottom level angle brackets. (Bracket components are shown in Figure 2) Mounting brackets slide into bracket base, bracket cover is aligned, and the bracket is fastened together using the hinge bolt provided (Fig. 4). Align panel on desired angle and mark the top (Fig. 5) and bottom (Fig. 6) rails as shown. Repeat this on the other side of the panel. Label the top of the rail panel to simplify installation.



4.

For the bottom rail only, add 3/4" (toward the rail end or post, (Fig. 7) to the marks made on the panel in Step 3 (Fig. 6). Remove all 8 screws that hold the end uprights in place. Remove the uprights and rods. Cut the panel directly on the marks made in Step 3 (Fig. 5).

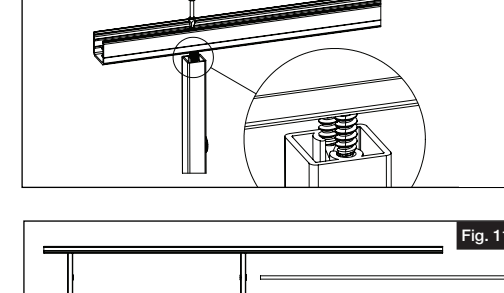
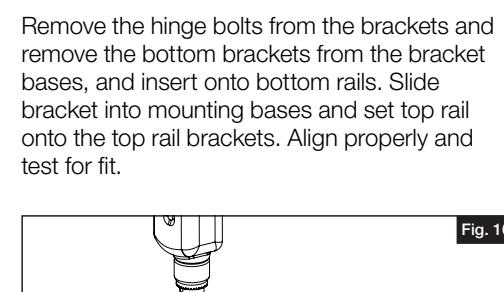
Put the upright alignment tool on the end of the rail. Mark the rail with a pencil by using the holes on the tool marked "Level Angle" pre drill the two holes with a 1/4" drill bit. Using the holes in the tool as a guide pre drill through the holes marked "Level Angle" with a 1/4" drill bit (Fig. 8). Repeat this for all ends of the panel.



5.

Re-attach one end upright using the holes drilled in the previous step and the same screws that were removed from it in step 1. Make sure the screws engage with the screw boss on the upright (Fig. 10). Do not tighten completely at this time. Insert the rods through the middle upright(s) and into the one attached end upright (Fig. 11). Be mindful of all of the grommets. If they slide out of place, slide them back into place.

Press the second end upright onto the rods. Align it with the holes predrilled with the upright alignment tool and re-attach it. After all upright screws are aligned and started you can completely tighten all 8 at this time



6.

Measure the length of the rail panel and cut the top rail (sold separately) to match. Press top rail end covers into the top rail and place top rail over the rail panel. Press down on the top rail to ensure that it fits snugly onto the panel. Using the holes in the bracket as a guide, predrill through the railing using a 1/8" bit as shown (Fig. 12). Drive two 1 3/8" painted pan-head screws up through the holes locking the bracket, panel, and top rail together. Once top rail is secured, tighten all four of the hinge bolts to lock panel in place.

Install pyramid mallet top onto each post. Note: A rubber mallet may be needed for proper fit.

