



Aluminum Railing

For VersaRail Post, Rail and Stair Kits

INSTALLATION INSTRUCTIONS



Read all instructions prior to installing product.
Refer to manufacturers safety instructions when operating any tools.

To register your product, please visit:
[veranda.barretteoutdoorliving.com](https://www.veranda.barretteoutdoorliving.com)

▲ 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.
- Not pool code approved.

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: 1-800-336-2383.

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.

FASTENERS NEEDED:

Depending on Installation Method (Sold Separately)

	3/8" Diameter Galvanized Bolts with Nuts (For Deck/Wood)
	3/8" Masonry Anchors (For Concrete)
	#10x3 1/2" Deck Screws (For Deck/Wood)

TOOLS NEEDED:

Safety Glasses
Pencil
Level
Chalk Line
7/16" & 1/8" Drill Bits
Drill
Hacksaw or Chopsaw*
Tape Measure
Scissors or Utility Knife
Tape
Rubber Mallet
Clamps
Fine-tooth Carbide Blade*
Deck Board (For Stair Rail Spacing)
2"x8" Wooden Blocks (For Post Support)
Shims (Steel Washers)
Clear, Weatherproof Silicone Caulk (For Glass Slats)

*If using a chopsaw, use a fine-tooth carbide blade.

Post Kit Components:

Description
Post, with Mounted Plate
Pyramid Post Top
2 Piece Base Trim
Secondary Mounting Plate

Rail Kit Components:

Description
Rail Cap
Top Rail
Bottom Rail
Locking Strips
Rail Bracket Kit
Square Baluster Kit
Hardware
Support Block

Angle Brackets sold separately.

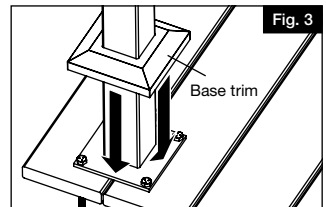
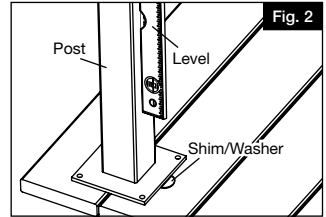
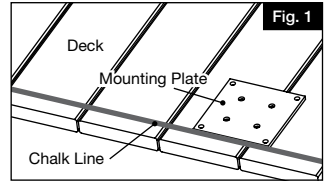
Stair Rail Kit Components:

Description
Rail Cap
Top Rail
Bottom Rail
Locking Strips
Stair Bracket Kit
Square Baluster Kit
Hardware

1

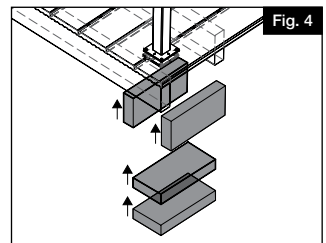
Planning:

- a. Posts are designed and manufactured to accept $\frac{3}{8}$ " fasteners (sold separately). Be sure to use appropriate fasteners for your installation.
- b. Determine the desired rail placement and snap a chalk line onto the mounting surface to ensure that all posts are aligned properly (Fig 1).
- c. Plumb and level the posts using steel washers as shims (sold separately) (Fig. 2), secure the posts in place with appropriate fasteners (sold separately) and install base trim on each post (Fig. 3).
- d. Determine the appropriate method for installing your posts below.



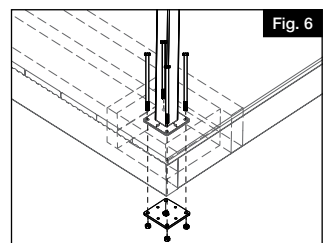
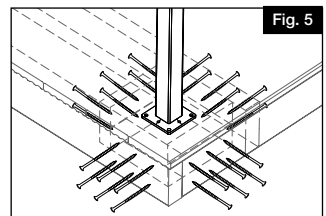
Concrete Surface Installations:

- a. Purchase four $\frac{3}{8}$ " masonry anchors according to local building codes.
- b. Mark holes through mounting plate onto concrete surface and follow masonry anchor manufacturer installation instructions.
- c. Install base trim around post (Fig. 3).



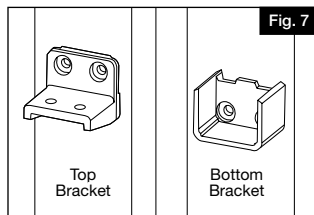
Deck/Wood Surface Installations:

- a. For decking applications, use the provided secondary mounting plate when securing posts in place.
- b. Beneath each post locations install at least two 2"x8" blocks using at least three #10x3 $\frac{1}{2}$ " deck screws penetrating through the joists at least 1 $\frac{1}{2}$ " into the blocks (sold separately) (Fig. 4 & 5).
- c. Mark holes through the bottom plate of steel post onto deck surface. Remove steel post and drill $\frac{7}{16}$ " holes in all four marks through deck board and blocking.
- d. Purchase $\frac{3}{8}$ " diameter galvanized bolts and nuts approximately 1" longer than the distance between steel mounting plates (minimum 5").
- e. Push bolts through post plate and attach separate bottom plate from beneath deck surface (Fig. 6). Posts can be leveled as needed by using shims.
- f. Tighten bolts, secure in place and install base trim around each post (Fig. 3).



2

- a. Cut out bracket template from side of post box, and align it with the base trim and post. Secure template in place using a piece of tape. Pre-drill through the desired marked locations on the template using a $\frac{1}{8}$ " drill bit.
- b. Remove template, align brackets (Fig. 7) with the holes ensuring the brackets are square, and fasten brackets in place using the $1\frac{1}{2}$ " screws provided.

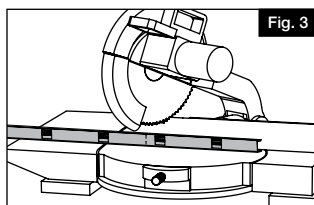
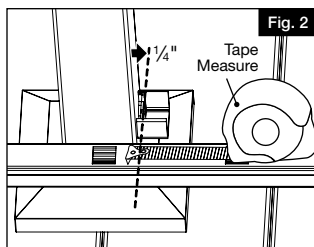
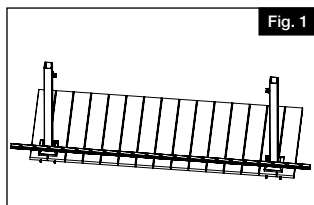


RAIL INSTALLATION - FOR SQUARE BALUSTERS

1

Cut Rails to Length (Top & Bottom Rails, Top Rail Cap):

- a. Place bottom rail across post opening leaving equivalent spacing from last baluster to post on each end. Make sure there is even spacing from baluster hole to post (Fig. 1)
- b. Mark rail flush to post.
- c. From marked lines, mark additional parallel line $\frac{1}{4}$ " from first line to allow for bracket clearance (Fig. 2).
- d. Align top rail and top rail cap with bottom rail and mark all before cutting to size. Then cut all to same length with a fine-tooth carbide blade. (Fig. 3).

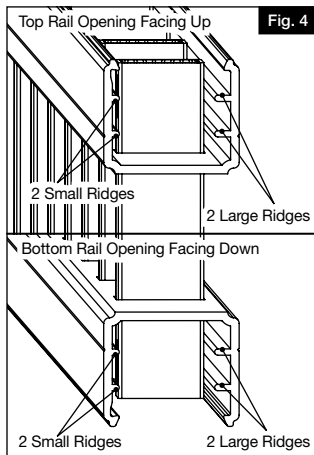
**2**

Assemble Railing Section:

- a. Place top and bottom rail on a smooth, flat and clean surface. Then, align the top and bottom rails so that the ridges inside the rails are oriented on the same side (Fig. 4).

NOTE:

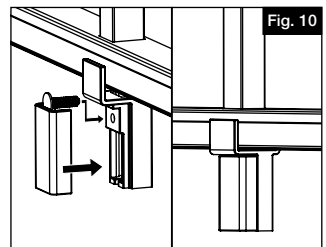
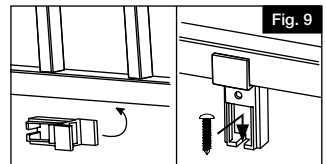
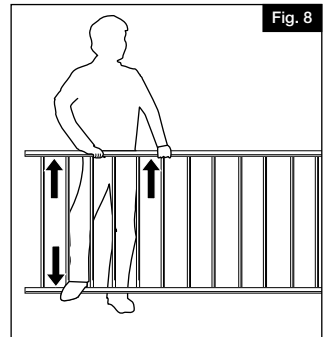
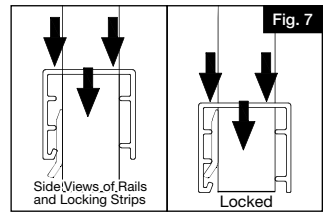
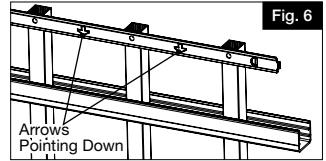
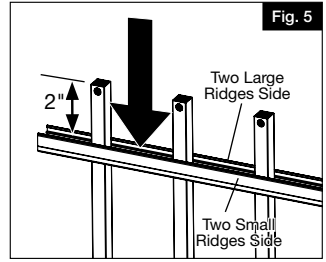
There are two (2) ridges on both sides that are different sizes.



- b. Insert all balusters through the square holes in rails, making sure the hole in each baluster goes in the same direction facing the side with the two (2) small ridges (Fig. 5).
- c. Make sure the balusters in the rails are about 2" above the rail and in-line with each other (Fig. 5).
- d. Snap in bumps from locking strip into holes of the baluster for both top and bottom rails. Make sure arrows on locking strip face rails (Fig. 6).
- e. If the rails were cut shorter in step 1, then there will be some extra locking strip at the end of install. Use scissors or a utility knife to trim off the excess, while leaving approximately 2" after the last engaged bump.
- f. Pull the top and bottom rails towards ends, guiding the rails over the locking strips until snug.
- g. Stand rail section up and fully lock balusters into the rails. Place one foot on the top of the bottom rail, between the second and third baluster while at the same time placing a hand under the bottom of the top rail between the second and third baluster. Push with foot and pull with hand until locking is completed. You should hear a snap as the strip locks into the rail. Repeat this process for the middle and the end of the panel (Fig. 7 & 8).

NOTE:

If no snap is heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection.



3

Install Support Block:

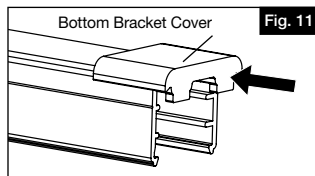
Pivot support block in place under the rail (Fig. 9).

NOTE:

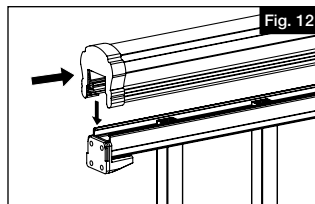
Secure support block to the mounting surface using 1½" screw(s) provided and press cover into place using plastic plug (Fig. 10).

4**Attaching Bottom Rail Bracket Cover:**

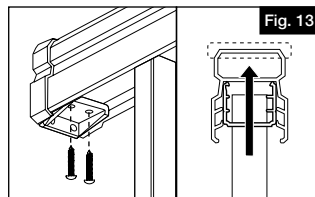
Test fit the rail panel. Once proper fit is ensured, press bottom bracket covers onto the ends of the bottom rail (Fig. 11) and set panel in place on brackets.

**5****Connect Rails to Brackets:**

a. Press top rail cap and bracket covers onto the top rail that was cut in step 1 onto the top of the panel. Press down on the top rail cap to ensure that it fits snug onto the panel and that the top rail bracket end covers are being held in place by the line bracket (Fig. 12).



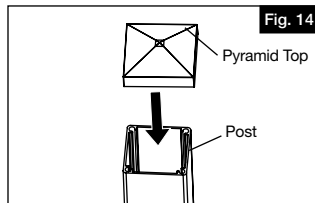
b. Using the holes in the bracket as a guide, pre-drill two (2) 1/8" holes from under the bottom of the rail up through the top rail. Drive two (2) 1 1/2" screws up through the hole locking the bracket, panel and top rail together, being careful not to drill through the top of the top rail (Fig. 13).



c. Install pyramid post top onto each post (Fig. 14).

NOTE:

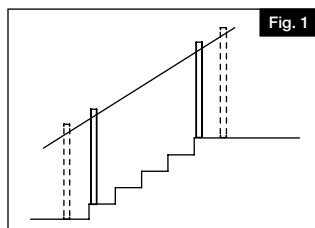
A rubber mallet may be needed for a proper fit.

**STAIR RAIL INSTALLATION****1**

Assemble rail panels as described in "Rail Installation."

NOTE:

- Taller posts (sold separately) may be needed for either bottom or top of the stairs, depending on the angle of the stairway or the location of where the posts will be installed relative to the nose of the stair tread. Bottom stair posts may also be moved out from bottom step (Fig. 1).



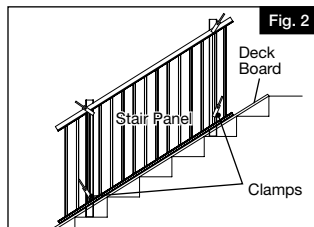
See "Post Installation" section for "Deck/Wood Surface Installations."

2

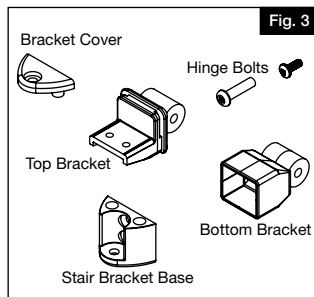
Place a deck board on the stair noses spanning from post to post. Place the stair panel on the board across the opening and plumb balusters while ensuring equal spacing on each end. Clamp the panel in place at this location (Fig. 2).

NOTE:

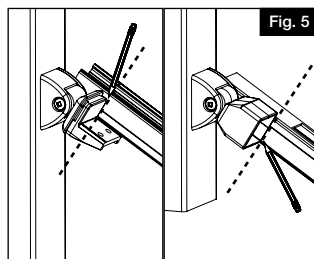
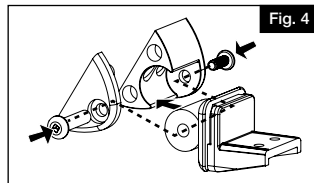
Use the proper deck board thickness to result in the desired finished rail height.

**3**

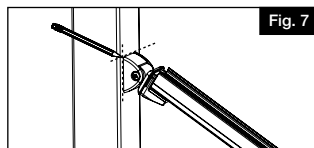
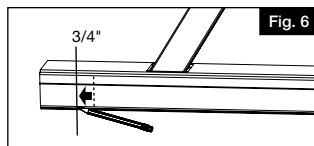
Temporarily assemble top and bottom stair mounting brackets. Brackets slide into bracket bases, bracket cover is aligned, and the bracket is fastened together using the hinge bolt provided (Fig. 3 & 4).

**4**

- a. Hold each respective bracket (angled) against the post face, align bracket with stair panel and mark all four (4) ends of the rail panel (Fig. 5).
- b. Repeat this on the opposite side of the panel and be sure to label the top rail to simplify placement after cutting.

**5**

- a. For the bottom rail only, add $\frac{3}{4}$ " (toward the rail end or post) to the marks made on the panel in step 3 (Fig. 6) and cut the panel at these marks.
- b. For the top rail, cut the panel directly on the marks made in step 3. Insert the bottom brackets onto bottom rail, align top brackets (temporarily secure brackets in place with tape), and test the panel for proper fit.
- c. Once proper fit is ensured, mark the bracket positions at all four (4) locations (Fig. 7) and remove brackets from the rail panel.



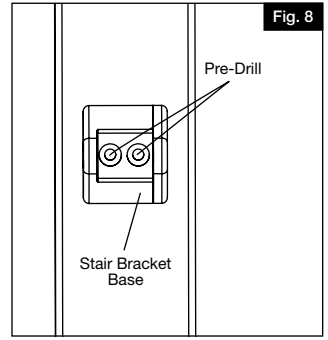
6

- a. Loosely assemble the stair bracket base and cover and use it as a template to mark locations for pre-drilling.

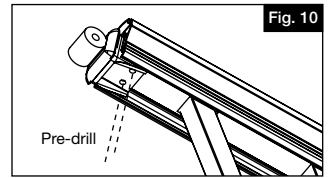
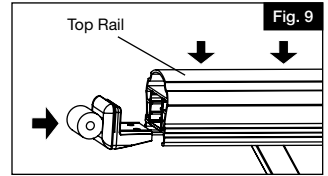
NOTE:

If base is centered without bracket cover, rail will NOT be centered.

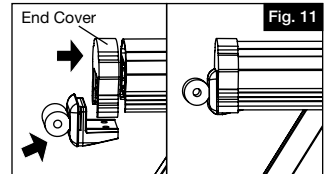
- b. Place the stair bracket base on the post aligned with the marks made in step 5 (Fig. 7) ensuring that brackets are properly oriented.
- c. Mark the two hole locations shown (Fig. 8) for each bracket and pre-drill using a 1/8" bit.
- d. Secure brackets to post using the non-painted flat head 1 1/2" screws provided

**7**

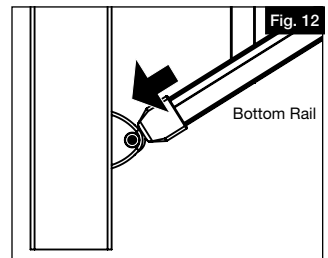
- a. Measure the length of the rail panel and cut the top rail (sold separately) to match. Press down on the top rail to ensure that it fits snugly onto the panel (Fig. 9).
- b. Align top stair bracket with the rail end only at the top of the stairs (Fig. 9). Using the pre-drilled holes as a guide, drill through the railing using a 1/8" drill bit being careful not to drill through the top of top rail. Do this for the top of the stairs only (Fig. 10).

**8**

- a. Press top rail cap and end covers onto both ends of the top rail. Slide top brackets in place on the rail ends, ensuring that the top rail cap and covers nest into the grooves of the brackets (Fig. 11).
- b. Align the bracket, panel and top rail. Drive two (2) 1 1/2" painted pan head screws through the pre-drilled holes locking the assembly together at the top of the stair rail only.

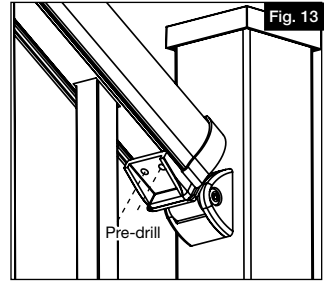
**9**

- a. Press bottom brackets onto the bottom rails. Slide all four (4) brackets into bracket bases which are connected to the posts.
- b. Slide bracket covers onto the bases and loosely secure in place with provided hinge bolts (Fig. 12).



10

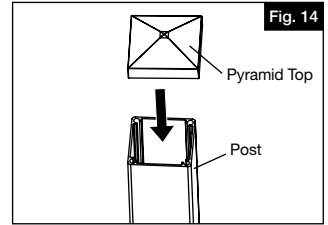
- a. Pre-drill the top rail at the bottom stair post using the bracket holes as a guide (Fig. 13).
- b. Drive two (2) 1 $\frac{5}{8}$ " painted pan head screws up through the holes locking the bracket, panel and top rail together. Once the top rail is secured, tighten all four (4) of the hinge bolts to lock stair panels in place.

**11**

Install pyramid post top onto each post (Fig. 14).

NOTE:

A rubber mallet may be needed for a proper fit.



ANGLE RAIL INSTALLATION

NOTE:

Angle rail installation uses a combination of features used in both the rail and stair applications. This installation will use the same bracket base of the stair brackets and similar components, while using the preset layout of the installation template for quick and easy installation.

1

Angle rail brackets must be purchased separately. Angle rail mounting varies greatly on each installation.

2

- a. Cut out bracket template from side of post box. Refer to angle bracket components (Fig. 1).
- b. Align bottom of template with top of the base trim and secure in place with a piece of tape.
- c. Follow instructions on template for pre-drilling using a $\frac{1}{8}$ " drill bit, then remove the template.
- d. Align top and bottom bracket bases with covers attached (Fig. 2) with the holes ensuring that they are square. Fasten bracket bases in place using the non-painted flat head $1\frac{1}{2}$ " screws provided.

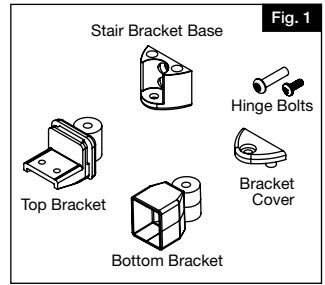


Fig. 1

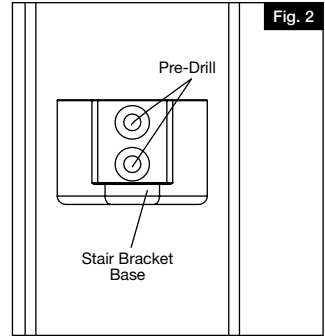


Fig. 2

3

- a. Temporarily assemble top and bottom level angle brackets. Mounting brackets slide into bracket base, bracket cover is aligned, and the bracket is fastened together using the hinge bolt provided (Fig. 3).
- b. Align panel on desired angle and mark the top rails (Fig. 4) and bottom rails (Fig. 5).
- c. Repeat this on the other side of the panel. Label the top of the rail panel to simplify installation.

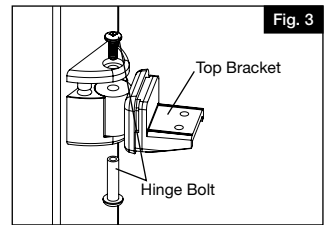


Fig. 3

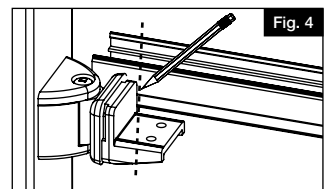


Fig. 4

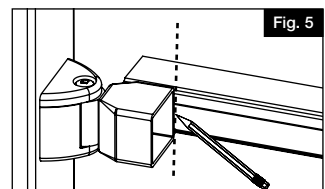
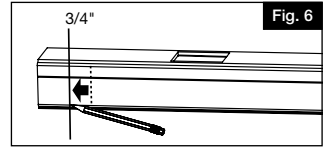


Fig. 5

4

- a. For the bottom rail only, add $\frac{3}{4}$ " (toward the rail end or post (Fig. 6) to the marks made on the panel in step 3 (Fig. 5) and cut the panel at these marks.
- b. For the top rail, cut the panel directly on the marks made in Step 3 (Fig. 4).
- c. Cut the top rail to the same length.

**5**

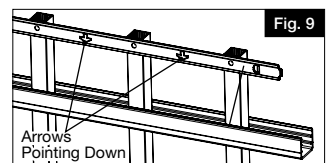
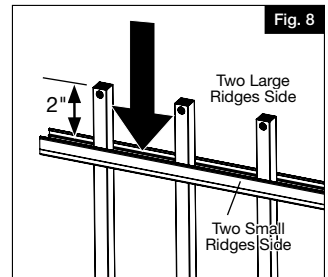
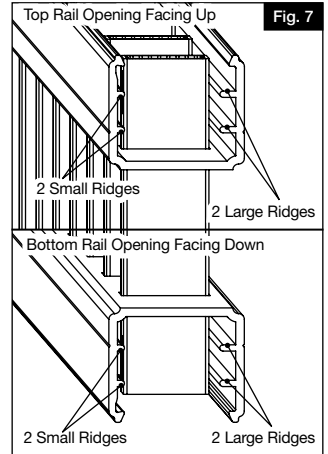
Assemble Railing Section:

- a. Place top and bottom rail on a smooth, flat and clean surface. Then, align the top and bottom rails so that the ridges inside the rails are oriented on the same side (Fig. 7).

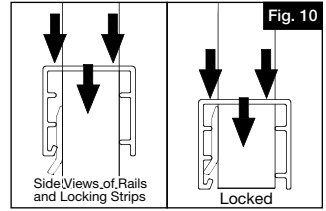
NOTE:

There are two (2) ridges on both sides that are different sizes.

- b. Insert all balusters through the square holes in rails, making sure the hole in each baluster goes in the same direction facing the side with the two (2) small ridges (Fig. 8).
- c. Make sure the balusters in the rails are about 2" above the rail and in-line with each other (Fig. 8).
- d. Snap in bumps from locking strip into holes of the baluster for both top and bottom rails. Make sure arrows on locking strip face rails (Fig. 9).
- e. If the rails were cut shorter in step 3, then there will be some extra locking strip at the end of install. Use scissors or a utility knife to trim off the excess, while leaving approximately 2" after the last engaged bump.
- f. Pull the top and bottom rails towards ends, guiding the rails over the locking strips until snug.

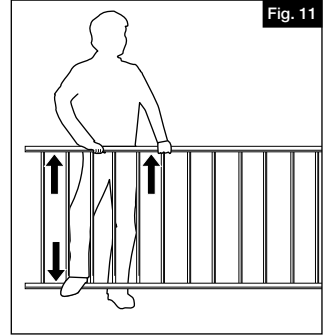


- g. Stand rail section up and fully lock balusters into the rails. Place one foot on the top of the bottom rail, between the second and third baluster while at the same time placing a hand under the bottom of the top rail between the second and third baluster. Push with foot and pull with hand until locking is completed. You should hear a snap as the strip locks into the rail. Repeat this process for the middle and the end of the panel (Fig. 10).



NOTE:

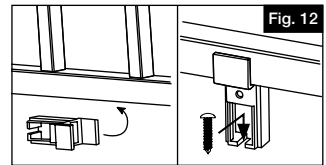
If no snap is heard or felt, use a rubber mallet to tap underneath of top rail to ensure a full connection



6

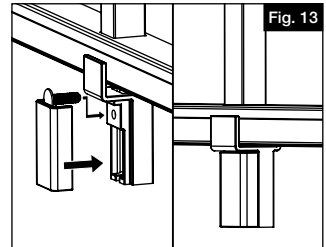
Install Support Block:

- Pivot support block in place under the rail (Fig. 12).



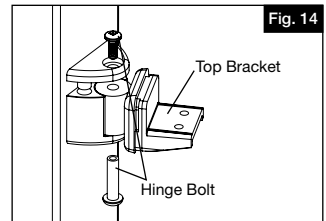
NOTE:

Secure support block to the mounting surface using 1½" screw(s) provided and press cover into place using plastic plug (Fig. 13).



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- Remove the hinge bolts from the bottom brackets. Remove the bottom brackets from the bracket bases, and insert the bottom brackets into each end of the bottom rail (Fig. 14).
- Slide the bottom bracket (and rail) into the bottom mounting base while setting the top rail on top of the top rail bracket.
- Reinsert the hinge bolt through the bottom brackets to lock assembly into place.



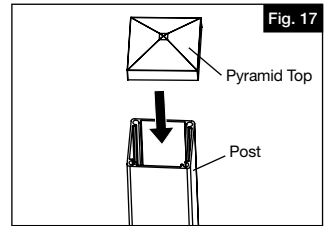
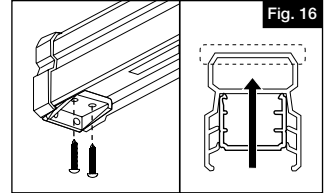
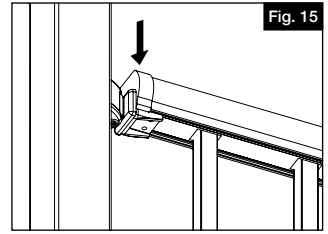
8

Connect Rails to Brackets:

- Press top rail bracket end covers onto each end of the top rail cap that was previously cut. Press down on the top rail cap to ensure that it fits snug onto the panel and that the top rail end bracket covers are being held in place by the line bracket (Fig. 15).
- Using the holes in the bracket as a guide, pre-drill two (2) $\frac{1}{8}$ " holes from under the bottom of the rail up through the top rail. Drive two (2) $1\frac{5}{8}$ " 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 (Fig. 16).
- Install pyramid post top onto each post (Fig.17).

NOTE:

A rubber mallet may be needed for a proper fit.



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