

**TIP:** Precision cuts required to ensure optimum tight installation and fit. Use chopsaw with thin carbide tip blade to ensure smooth cuts. Pay particularly close attention to angle cuts to ensure tight fit.

## Step 1: Install Post Sleeves and Base Trim.

**1.1:** Slide post sleeve and base trim over wood 4 x 4. Plastic post spacers are included in 5 x 5 ProRail post sleeves and fit tight over 4 x 4 wood post.

**OR**

**1.2:** Slide post sleeve and base trim over steel Post Install Kit (model #73003575, sold separately) - See separate post install kit instructions for installation details.

## Step 2: Cut Rails to Length:

**NOTE:** If installing full size (uncut) rails, skip to Step 3

**2.1:** Place bottom rail across post opening leaving equivalent spacing from the last baluster and post on each end.

**2.2:** Mark rail flush to post.

**2.3:** Assuming posts are plumb, align top rail with bottom rail and cut to proper length.

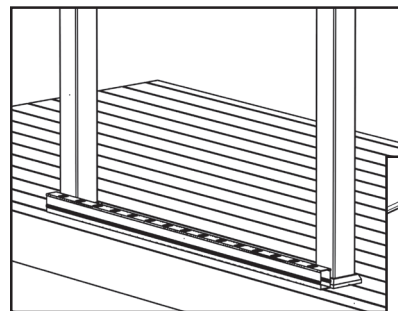


Figure 2.1

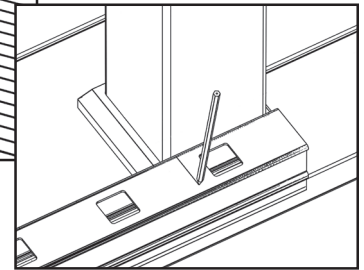


Figure 2.2

## Step 3: Install Center Support Brace(s):

**3.1: For 6' sections, one support brace is included.**

- Measure equal distance from both ends of bottom railing and install support brace in center of bottom rail with supplied screws (two #10 x 3/4").

**3.2: For 8' sections, two support braces are included.**

- Measure length of bottom rail and divide by three - then measure that distance from each end of rail and install support braces with supplied screws (two #10 x 3/4").

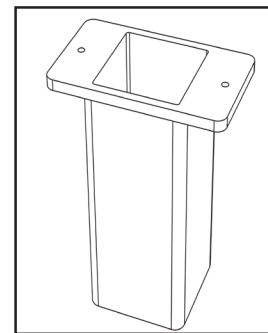


Figure 3.1

## Step 4: Create Temporary Install Support Pieces

**4.1:** Cut two 2-7/8" tall temporary wood spacer blocks (not included) to insert under ends of bottom rail to temporarily assist in aligning rail section.

## Step 5: Install Bottom Rail

**5.1:** Position the bottom rail brackets to the ends of the bottom of the bottom rail (side opposite the one with the routed holes.) Screw into rail with #10 x 1" screws.

**NOTE:** Within the ProRail bracket kit (model#73013131), the two **bottom** rail brackets are the **larger** ones.

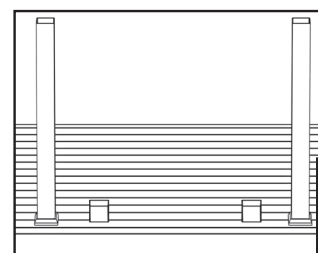


Figure 4.1

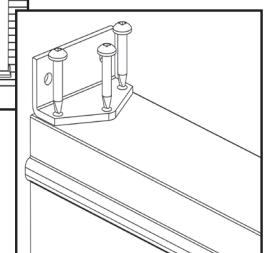


Figure 5.1

## Step 5: (Cont)

- 5.2: Slide bottom rail in between posts and rest on top of wood spacer blocks.
- 5.3: Screw bottom rail brackets into post (routed hole side of rail, facing upwards) with #10 x 1" screws.
- 5.4: Place bottom rail gaskets at ends of the installed bottom rail if desired, to cover any gaps created during installation.
- 5.5: Remove/discard the temporary spacer blocks.

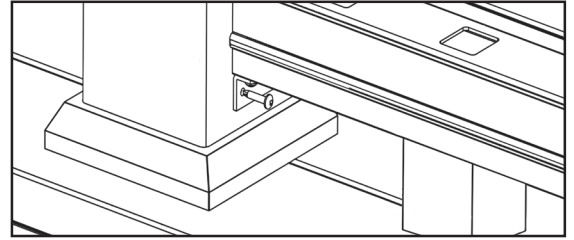


Figure 5.3

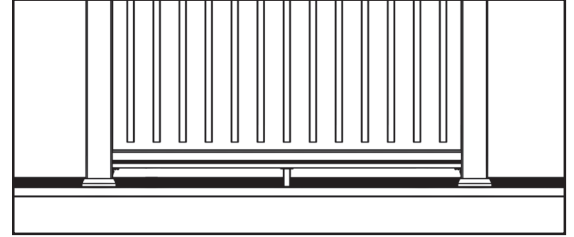


Figure 6.1

## Step 6: Install Balusters

- 6.1: Slide balusters into the routed holes of the bottom rail. Lock tabs on balusters must face the outer edge of routed holes.

## Step 7: Install the Top Rail

- 7.1: Install top rail brackets to post:
  - a. Measure up 28-7/8" from top of bottom rail and make a mark. This will be the location of the top of the bracket
  - b. Using 5/32" drill bit, pre-drill top rail bracket screw holes into post. Drill through bracket hole, vinyl post jacket, and wood or steel post and loosely install first #10 x 2-1/2" screw.
  - c. Repeat drilling process for remaining screws, and tighten all screws.
- 7.2: Attach top rail to balusters: Begin at one side of rail and align first baluster with the first routed hole on the bottom side of the top rail and snap top rail into position. Continue down the line of balusters installing balusters into top rail.
- 7.3: Position the top rail brackets at the ends of the underbelly of the top rail. Screw into rail with #10 x 1" screws.
- 7.4: Place top rail gaskets at ends of the installed top rail, if desired, to cover any gaps created during installation.

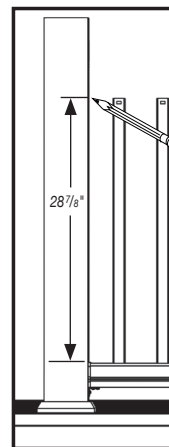


Figure 7.1a

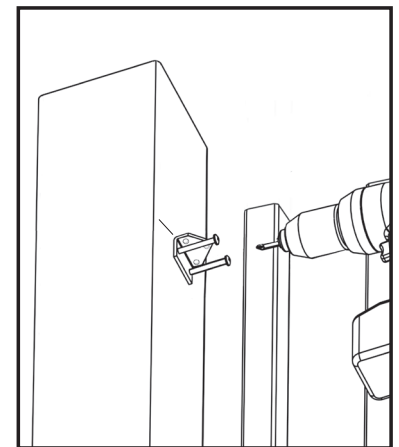


Figure 7.1b

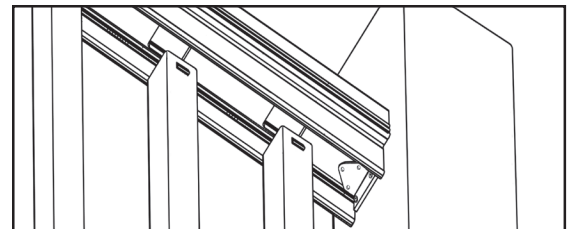


Figure 7.2

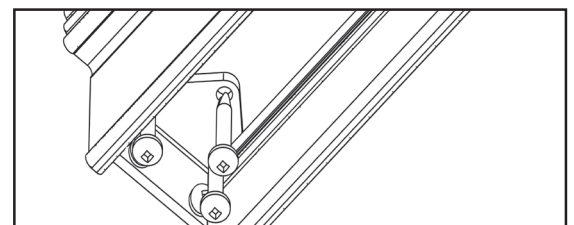


Figure 7.3

## Step 8: For Angled Installations

- 8.1: Top and bottom rail should be cut to appropriate angle and length to fit tightly between posts. Top and bottom rail brackets to be moved to same angle as rails.

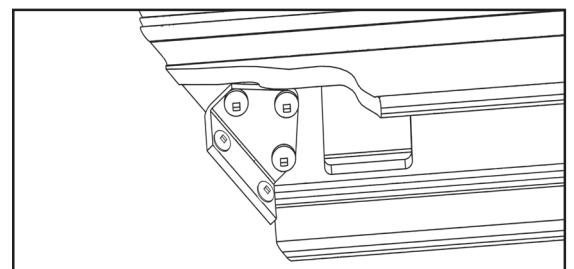


Figure 8.1