

## Requirements

- Residential railings must be 36" or taller.
- Residential spans between posts must be 12 feet or less.
- Commercial railings must be 42" or taller.
- Commercial spans between posts must be 8 feet or less.
- Spans ranging from 7 to 8 ft require one #9049 Span Foot.
- Spans greater than 8 feet require two #9049 Span Feet.
- Sidemount spans maximum span is 6 feet.

## Step One | Setup

Unpack materials and check parts, using the Parts Manifest included. Report any discrepancies to the dealer or supplier.

All cuts should be made with a miter chop saw which is equipped with a non-ferrous metal cutting blade (80-100 tooth).

### Tools Required

- Miter Saw with non-ferrous metal cutting blade.
- Drill with 3/16" bit
- #2 and #3 square bit drives

## Step Two | Post Installation

Refer to the layout provided with your manifest; place your Posts in the approximate position on your deck.

**Fig.1)** The Top Brackets have pre-punched holes into the Posts. Install the Top Brackets with the #12 x 3/4" screws provided. Take care to be sure that Corner Posts are in the correct location and that all Brackets are facing the desired run of the railing.

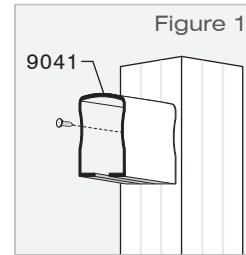
**Fig.1b) Note:** Top Brackets can be mounted to existing walls or posts pending at least 2" of backing is available. Longer screws are required and can be added to the order when the order is placed.

**Fig.2)** Measure the overhang of the deck surface from the joist you intend to mount your Post Base Plates in to. Align the Base Plate the same distance from the edge of the deck as the joist is inset. The screw holes in the Base Plates will now be centered in the joist below. At least 2" of Wood Blocking must be used below the deck where screw holes are not over an existing joist.

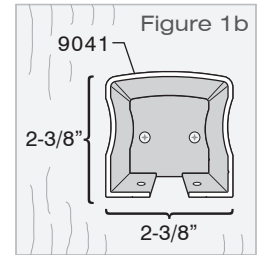
**Fig.3)** Install the Corner Posts first. A plumb line is helpful to align distant posts.

Fasten the Corner Post Base Plates with the provided #14 x 3" Screws (with Clear Washers and White Snap Caps) to the deck.

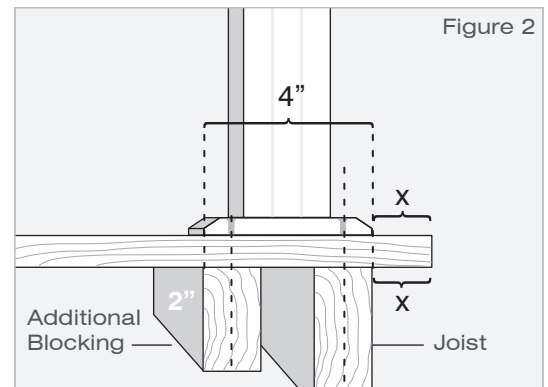
**Fig.4)** Be sure that the Intermediate Posts are spaced evenly and that they are plumb on all sides. To do this, measure the Total Span between the inner faces of the Corner Posts. Subtract from this measurement 2-1/2" for each Intermediate Post in the run. Then divide by the number of Rail Spans to be installed in the run. This will give you the distance in which to space your Posts. It also will give you a starting



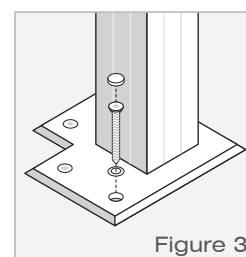
Top Brackets are fastened with #12 x 3/4" screws.



Top Brackets can be mounted to existing walls or posts pending at least 2" of backing. Longer screws required.

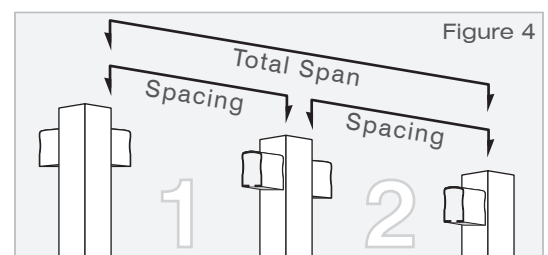


To center the screw holes on the Base Plate over the joist: measure the distance that the deck surface overhangs from the joist - use this same distance to offset the edge of the Base Plate from the edge of the deck.



Base Plates are fastened with #14 x 3" screws. Cover with Caps.

In this example, there is 1 Intermediate Post which creates 2 open Spans. 2-1/2" would be subtracted from the Total Span which would then be divided by 2. This results in the Spacing Distance to align the Intermediate Post.



measurement needed for the next step. Fasten the Base Plates with the provided #14 x 3" Screws (with Clear Washers and White Snap Caps) to the deck for all the Posts in your installation.

### Step Three | Measure and Cut the Rail Spans

You have received pre-built Railing Spans which include Top and Bottom Rails connected by their Pickets (either square or sculptured). These Rail Spans will need to be trimmed to their final size.

**Fig.5)** Measure the distance of the Total Span between the inner faces of your Intermediate Posts. Subtract 2-1/2" from this measurement to determine the length of the Rail Span required for your installation.

**Fig.6)** To ensure that you stay within the requirement to keep all opening less than 4", as well as for aesthetic purposes, trim your pre-built Railing Spans evenly from both ends. This will require 4 actual cuts per span since you will trim both the Top and Bottom Rails.

### Step Four | Inserting the Rail Spans

**Fig.7)** Slide the #9043 Bottom Brackets onto each side of the Bottom Rail. Do not fasten at this point.

**Fig.8-9)** Insert one end of the Railing Span into one of the pre-installed Top Brackets. Slide the Railing Span in as far as it will go to allow clearance to swing the other end into alignment.

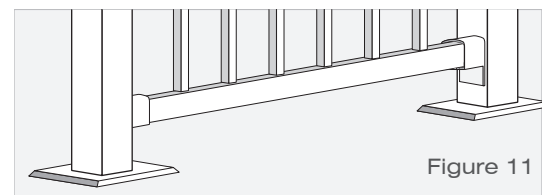
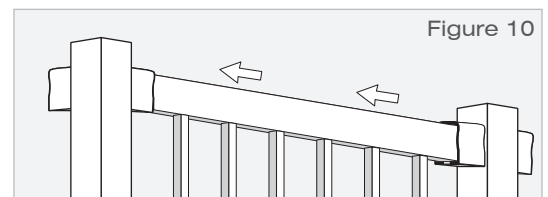
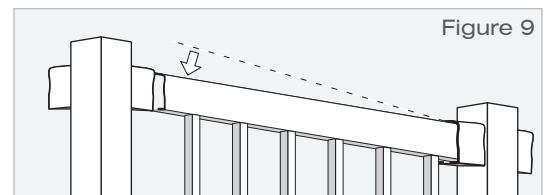
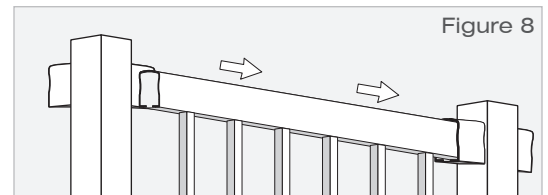
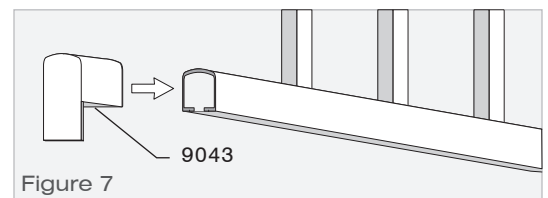
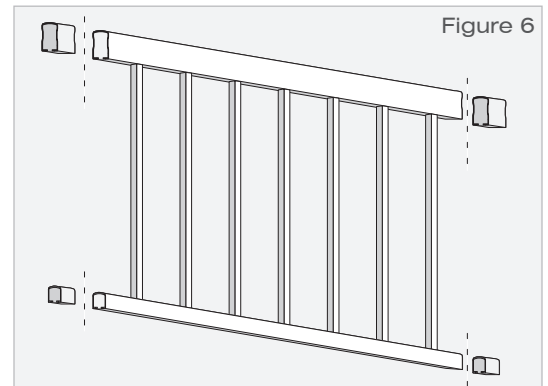
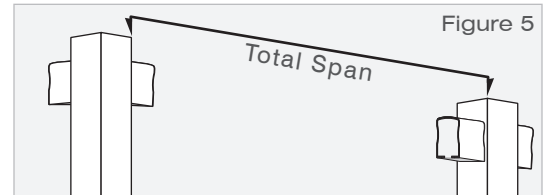
**Fig.10-11)** Insert the opposing end into the corresponding Top Bracket and center the Rail Span between the Posts.

### Step Five | Fastening the Railing Spans

With the Railing Span centered and aligned plumb, mark and drill holes to fasten the Bottom Brackets. Use the grooves on the Posts for alignment.

**Fig.12)** Fasten the Bottom Brackets to the Posts with the #12 x 3/4" Screws (with Clear Washers and White Snap Caps) provided.

**Fig.12-13)** Fasten to the Top and Bottom Rails with the White #10 x 3/4" Tek Screws provided.



Top and Bottom Brackets are fastened to the Railing Spans with the White #10 x 3/4" Screws.

Bottom Brackets are fastened to the Posts with #12 x 3/4" Screws (with Clear Washers and White Snap Caps) provided.

