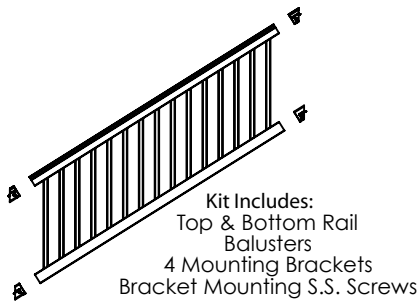




## SmartRail Stair Assembly



### Tools Needed

Tape Measure	5/32" Drill Bit
Pencil	S2 Square Drive Bit
Cordless Drill	Chop Saw with Carbide Blade

\*Using a Dust Mask is recommended

### Important Information Before You Start

These installation guidelines will direct you through the process of installing a SmartRail System. Most contractors will find this process very similar, if not identical to the installation of a regular railing system. There are, however, certain areas that you will want to pay closer attention to.

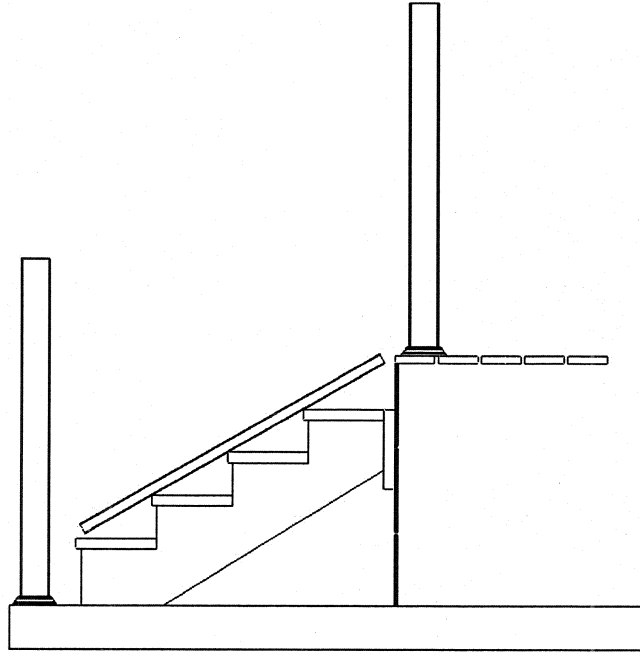
The following pages depict installation methods that have proven successful and are therefore recommended by the manufacturer. Please keep in mind that they may not cover every installation scenario you may encounter.

Go to the web site for additional installation tips. Since each installation is unique in its performance requirements, the ultimate installation method used is the sole responsibility of the installer.

American Edge Smart Rail Systems disclaims any liability or responsibility for the improper installation of this product. The purchaser is solely responsible for compliance with applicable local codes as to the deck's or railing's intended use. American Edge Smart Rail recommends that all designs be reviewed by a licensed architect, engineer or local building official before installation. American Edge Smart Rail Systems will provide, at the purchaser's request, independent laboratory results to assist in your planning process.

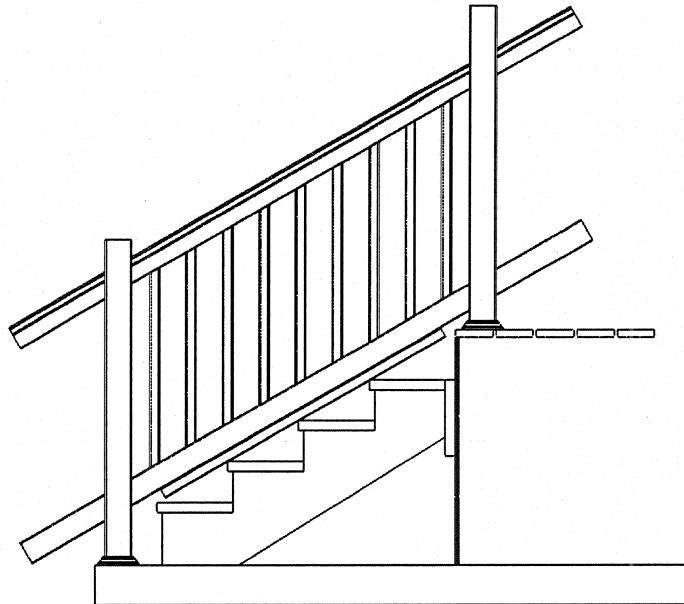
### Step 1

After post has been installed determine height of bottom rail to stair tread.  
( Install tip: 1x6 or 2x4 lumber may be used as a spacer.)



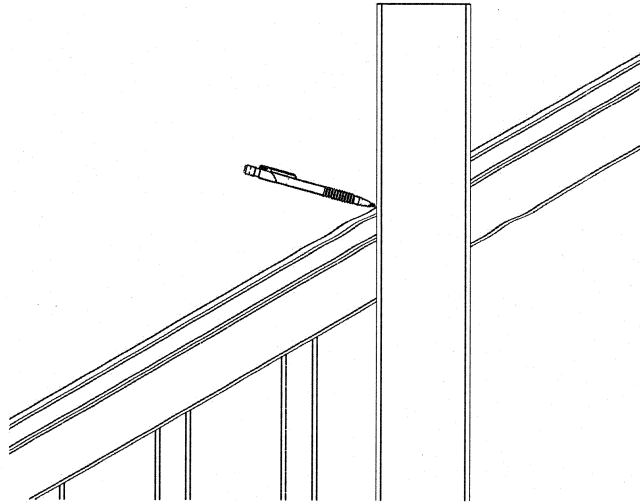
### Step 2

Assemble rail section. Set rail section on top of spacer and against post. Using a level hold railing section at proper pitch then shift section up or down creating equal baluster spacing for each post. After rail is at proper position hold in place with clamps.



### Step 3

Pencil mark rail for cut mark at each end of rails.

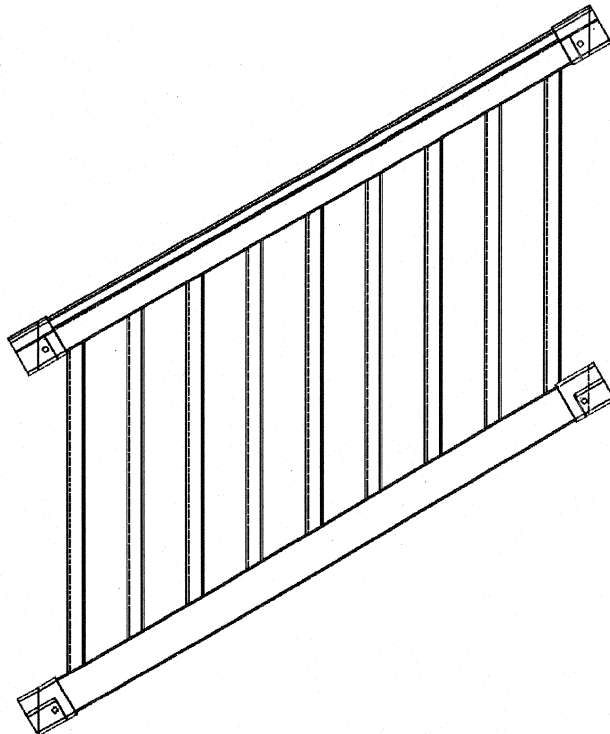


### Step 4

After all ends of the rails have pencil mark established remove clamps from rail assembly and cut rail ends to length.

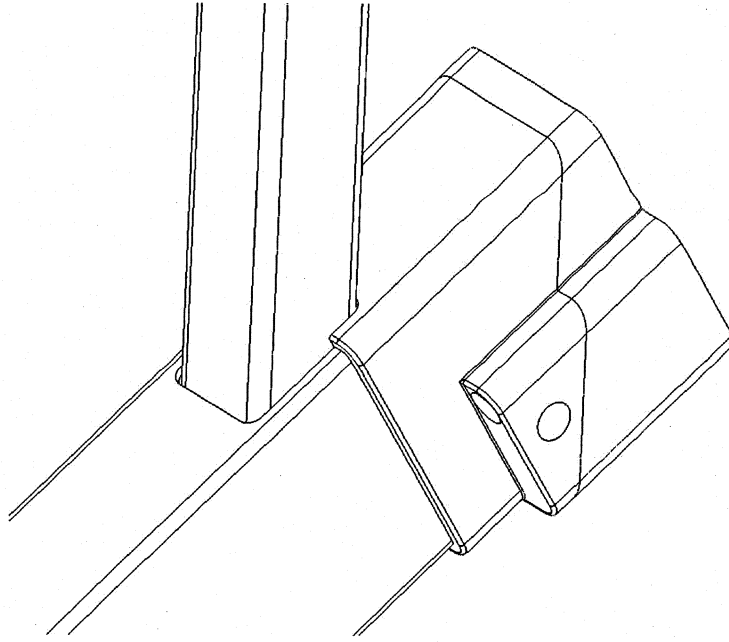
### Step 5a

After cutting rail ends slide stair rail brackets on each end of rail as shown.



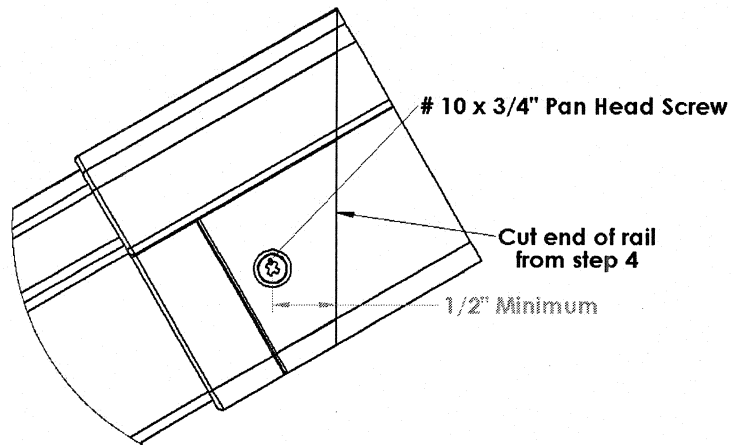
### Step 5b

Depending on stair angle you may need to cut bracket allowing for spindle clearance as shown below.



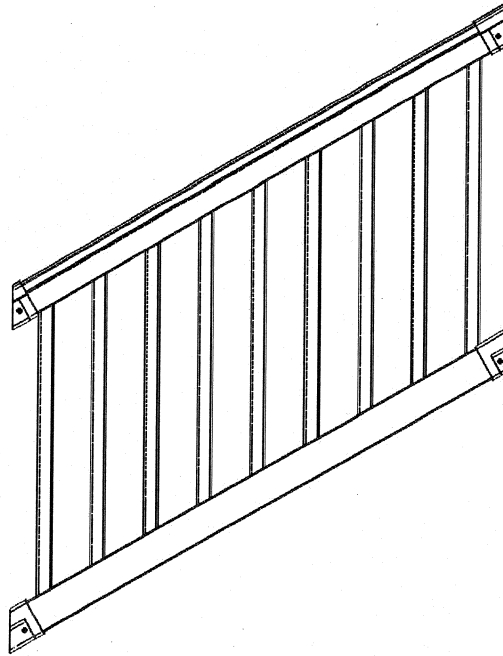
### Step 6

Using cut end of rail measure to ensure  $\frac{1}{2}$ " minimum distance from rail end to center line of screw hole. Drill through bracket and rail with a  $\frac{5}{32}$ " drill bit at each side of bracket then fasten bracket with a # 10 x  $\frac{3}{4}$ " Pan Head Screw. Repeat this step for each bracket.



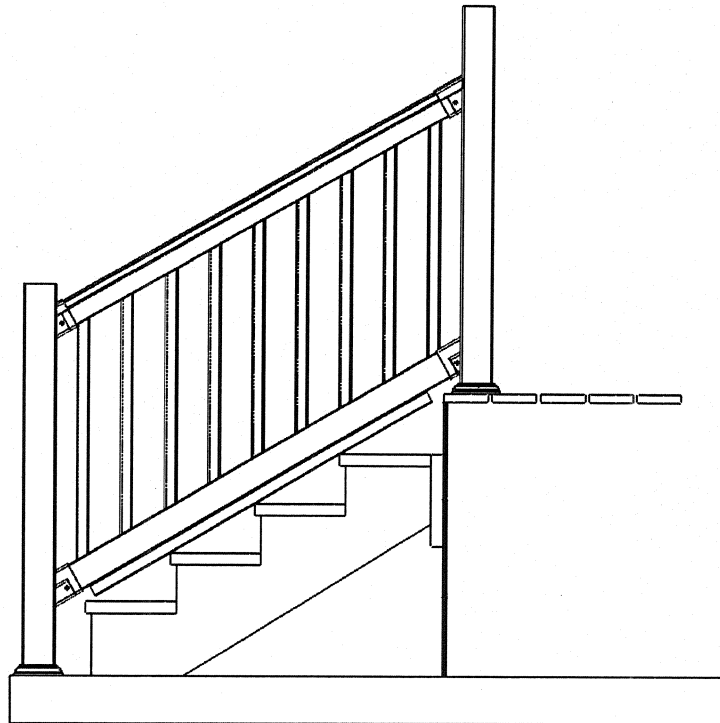
### Step 7

Again using the cut ends of the rails. Measure and pencil mark to cut bracket ends matching the cuts of each rail ends from step 4. Repeat this for each bracket.



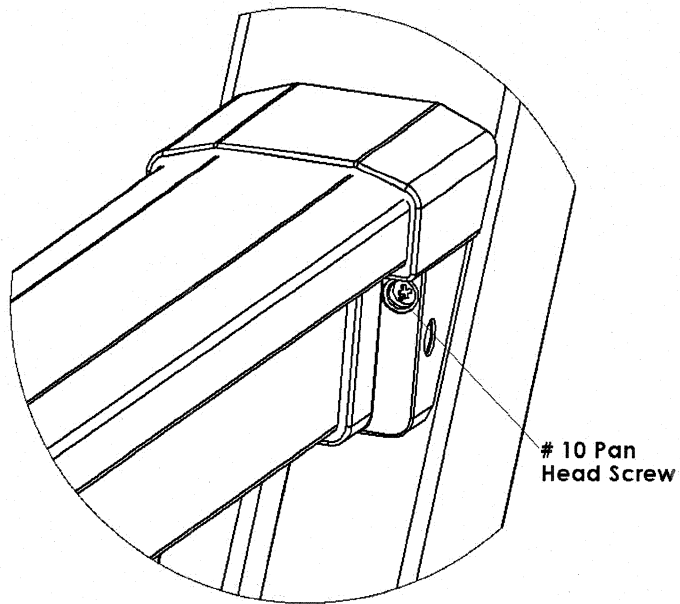
### Step 8

Place rail assembly on spacer and between post.



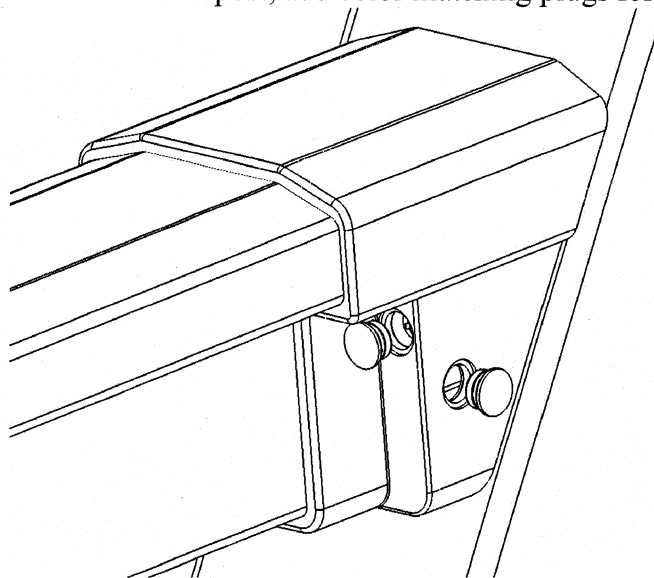
### Step 9

Drill through post (2) places using a 5/32" drill bit, then fasten bracket to post using (2) # 10 x 3" Pan Head Screws. Repeat this step for each bracket.



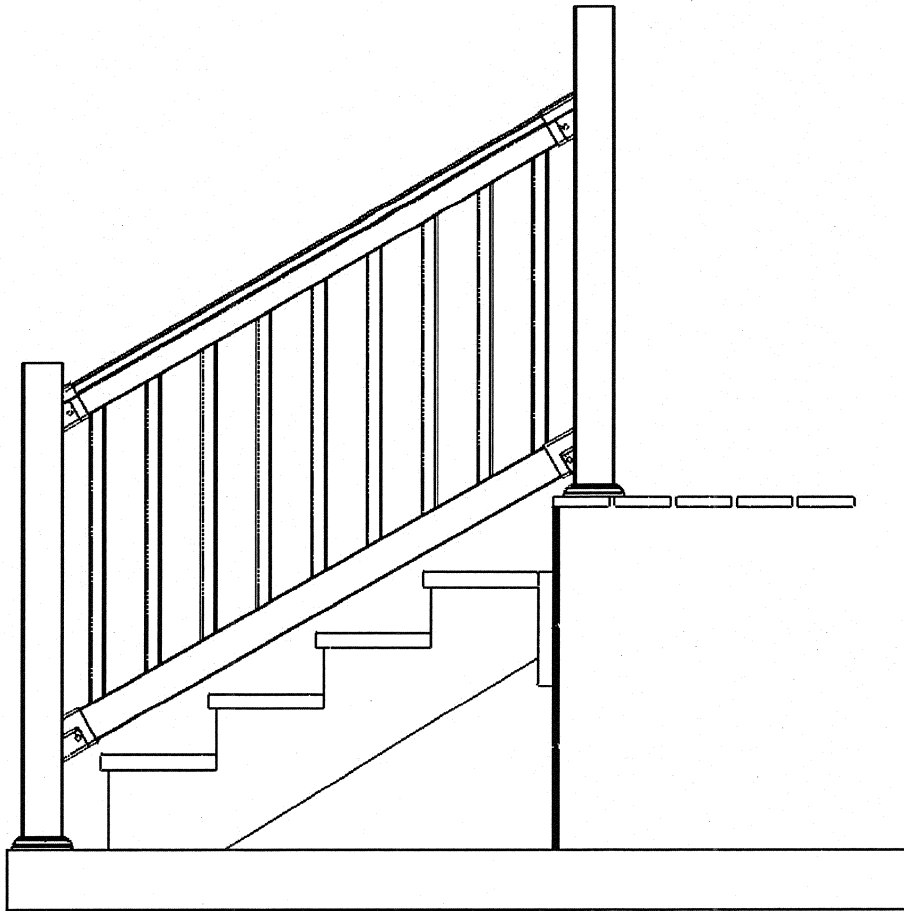
### Step 10

When all brackets are fastened to post, add color matching plugs for a clean appearance.



## Step 11

Remove spacer from rail assembly.



Repeat installation process for each additional rail assembly.

**American Edge**

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Form #