

Zenith Post Installation Instructions

PRECAUTIONS

Read this manual in its entirety before installing turnstiles. If there are any questions, call Alvarado at 909-591-8431 or 800-423-4143, Monday through Friday, 6:00 AM to 4:30PM PST.

Materials Enclosed:

- Zenith Posts
- Post Cap
- Post Cup
- Base Cover
- Center Shaft
- Anchor Package

Tools Required:

- Hammer Drill
- 5/8" & 1" Concrete Drill Bits
- 1/8" Allen Wrench
- Ratchet
- 9/16" & 15/16" Sockets
- Torque Wrench
- Tape Measure
- Chalk Line
- Rubber Mallet
- Shop VAC

Installation Instructions

1. Snap a chalk line on the floor in the desired location(s) of the **Zenith Posts** to determine the proper centerline of the posts. A tile line may be substituted for the chalk line.
2. Mark the center of each post's location along the centerline. Use the length of rail ordered, plus 3" to compensate for the center to center dimension, to determine the correct distance between each Post (See **FIGURE 1**). It is important that this be done accurately!
3. Using the impact drill and a 1" drill bit, drill a minimum 3" deep hole at each post's center mark. Vacuum ALL dust and debris from each hole. If this is not done correctly, the anchors will not seat properly!
4. Insert the **Threaded Shaft** through the **Post Cup** so that the cup curves upwards, and through the **Post** so that the shaft nut is on top and the threads protrude through the bottom of the **Post Flange**. While holding the **Shaft Nut**, screw the 1" diameter SA Anchor onto the bottom of the **Threaded Shaft** (making sure that the threaded portion of the anchor is pointed down) until the top of the anchor is approximately 1/16" from the bottom of the **Post Flange** (See **FIGURE 2**).
5. While holding the **Shaft Nut**, position the Post by inserting the **SA Anchor** into the drilled hole. Support the weight of the **Post** so that it does not rest on the SA Anchor and tap the **Shaft Nut** lightly to set the **SA Anchor** down into the hole.
6. Turn the **Post** so that the **Railing Outlets**, if any, are positioned in the desired direction(s) and mark the positions of the four outer **SB Anchor** holes located on the **Post Flange** (See **FIGURE 3**). Unscrew the center shaft from the **SA Anchor** and remove the Post, leaving the SA Anchor in the hole.
7. Using the impact drill and a 5/8" drill bit, drill a minimum 3" deep hole at the center of each of the four marked outer anchor positions. Vacuum ALL dust and debris from each hole. If this is not done correctly, the anchors will not seat properly!

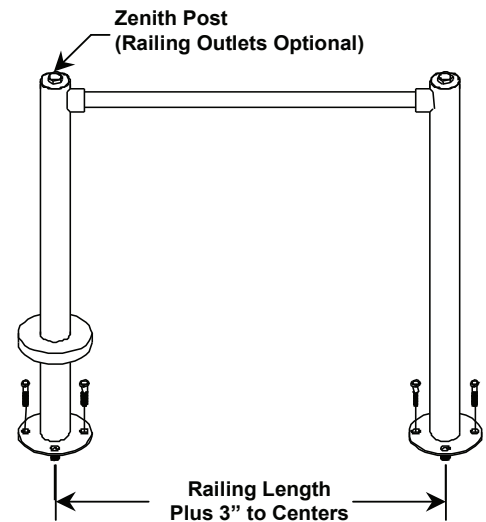


FIGURE 1 – Post & Rail Length from Center to Center

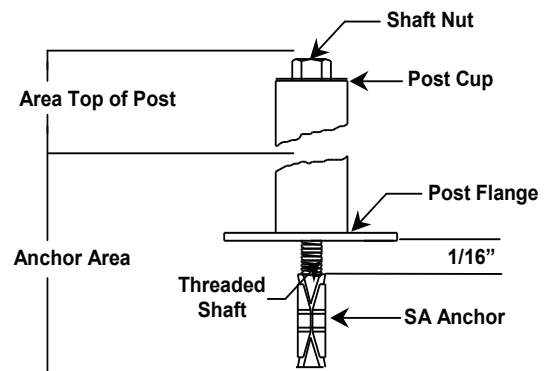


FIGURE 2 – Detail View of Anchor Area & Top of Post



8. Place an **SB Anchor**, thread side down, into each hole. Make sure that the top of the anchor is flush with the floor (See **FIGURE 3**).
9. Reposition the **Post**, inserting any **Rails** into the appropriate outlets. Thread the center shaft into **SA Anchor** and insert a 3/8" **Bolt** and **Washer** through the **Post Flange** into each of the **SB Anchors**. Checking that the **Post** is straight and level, tighten the 3/8" Bolt to 20 ft-lbs. torque. Tighten the center shaft to 80 ft-lbs. torque.
10. Insert the **Setscrews** into the bottom of each **Rail Outlet** and tighten the railing into place using a 1/8" Allen wrench.
11. Verify that the **Post Cup** is aligned center to center with the top of the **Post**. This is very important! The alignment (of the **Post Cup** and **Post**) will allow the **Post Cap** to fit securely over the **Post**. If the alignment is off-centered, the **Post Cap** may be damaged when installed.
12. To install the **Post Cap**, place the **Post Cap** over the **Shaft Nut** and carefully center it with the **Post Cup** and **Post**. Tap gently around the top edge of the **Post Cap** to prevent denting the Post Cap. Tapping will secure the **Post Cap** to the **Post**. Verify that the **Post Cap** is secure.
13. To install the **Base Cover**, place the **Base Cover** over the **Post Flange**. Tap gently around the top edge of the **Base Cover** to prevent denting the **Base Cover**. Tapping will secure the **Base Cover** to the **Post Flange**. Verify that the **Base Cover** secure.

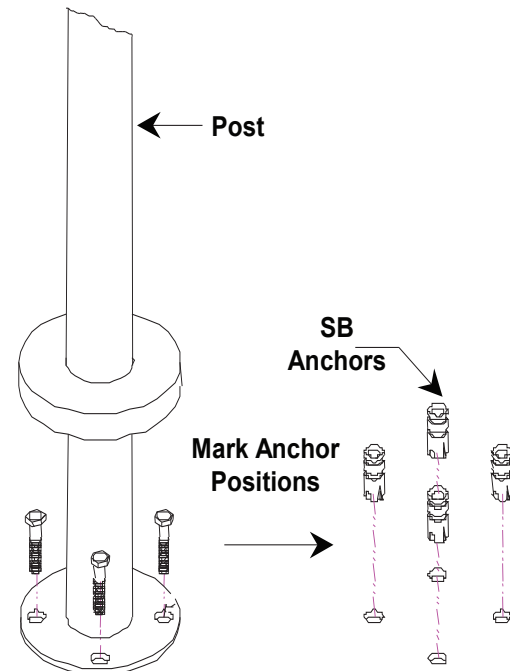


FIGURE 3 – SB Anchors

Maintenance:

Clean turnstile with the correct type of cleaner for its finish:

- **Chrome:** Use a general all-purpose cleaner with a soft cloth.
- **Stainless Steel:** Use a Stainless Steel polish or cleaner. If a heavy scratch or mark is apparent use a metal blend or finish pad.
- **Powder Coat:** Use a soft damp cloth. Any deep scratches or chips should be touched up to prevent rust.

NOTE

If untreated, rust will spread under the surface.

Replace any bent or broken pieces IMMEDIATELY.

Tighten any loose outlets, or anchor bolts.

Warranty:

Alvarado Manufacturing Company warrants the equipment being sold against defects in material and workmanship, for a period of one (1) year from the date of purchase, providing recommended installation and maintenance procedures are followed. This warranty is void if damage was due to improper installation, maintenance or use. The manufacturer is not responsible for any shipping or labor charges incurred in the removal or replacement of defective parts.