



VIEW RAIL  
BY  STAIRSUPPLIES™

## INSTALLATION INSTRUCTIONS

CABLERAIL FOR METAL POSTS

CABLERAIL FOR WOOD POSTS

DRIVETITE

DRIVETITE WITH CABLE STOP

TROUBLESHOOTING GUIDE

# Viewrail Cablerail Installation Instructions for 2x2 Metal Posts

Use care to keep steel tools, dirt and harsh chlorine based cleaners and acids away from stainless steel components before, during and after installation.

## How to Measure Cut Lengths for Cable

1. Measure the distance from the outside face of one end post (where the cable will be terminating) to the outside face of the other end post.
2. Based on which Kit you're installing, subtract the amount listed below to your measurement from the previous step:

Level Tension Kit (VR290) on both ends — 2 1/2"

Angle Tension Kit (VR294) on both ends — 1 1/2"

Angle Tension Kit (VR294) & Level Tension Kit (VR290) — 2"

KeyMount Kit (VR292) & Level Tension Kit (VR290) — 2 3/4"

KeyMount Kit (VR292) & Angle Tension Kit (VR294) — 2"

3. Once you've determined cut length, mark cable and cut.

## How to Crimp Threaded Crimp Fittings

1. Slide the cable into the Threaded Crimp Fitting until it cannot slide any further.
2. Put the fitting, with the cable inside it, in between the crimper dies and crimp the fitting onto the cable.
3. Crimp all fittings twice.

## How to Crimp KeyMount Fittings

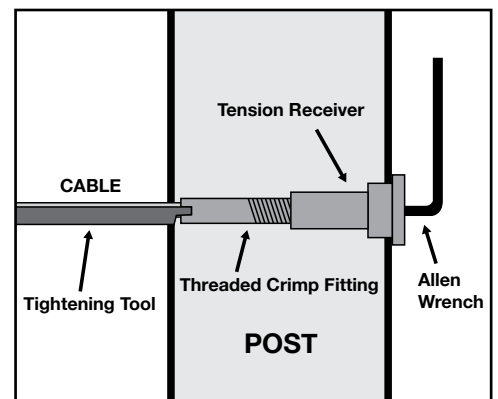
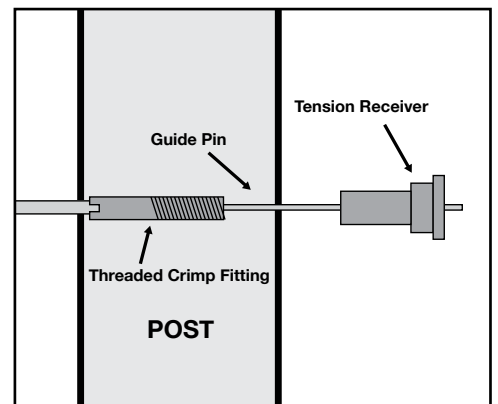
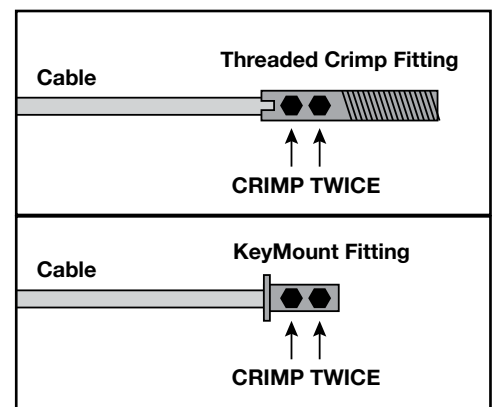
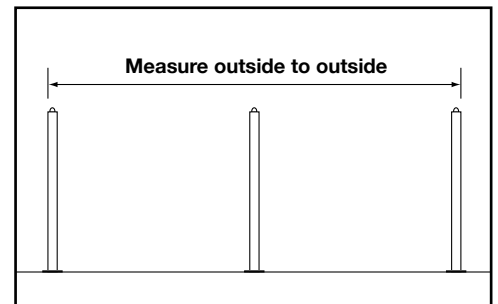
1. Slide the keyed end of the KeyMount fitting on the cable until the opposite end of the fitting is flush with the end of the fitting.
2. Put the fitting, with the cable inside it, in between the crimper dies and crimp the fitting onto the cable.
3. Crimp all fittings twice.

\*\*\* KeyMount Fittings require Viewrail Posts that have been designed with a special hole specifically for this fitting. The fitting is simply inserted and turned 1/4 turn. This fitting has no tensioning ability.

## How to Thread and Tighten the Level Tension Kit (VR290)

1. Put the Threaded Crimp Fitting through the hole of an end post and thread the Tension Receiver on the Threaded Crimp Fitting. Only tighten 4 turns.
2. Thread the cable through the posts and put inserts on the cable.
3. Place the Guide Pin in the end of the Threaded Crimp Fitting and use it to align the threads with the Tension Receiver at the final post. Snug the cables, but do not tighten until all cables have completed this step.
4. Begin tightening at the middle of the post and work out using the Allen wrench and tightening tool. Tighten from each end so that the Threaded Crimp Fitting is into the post far enough that the sleeve can be inserted.
5. Use the Tightening Tool to hold the fittings in place while tightening. Do not allow the cable to spin while tightening.

*Tip: When installing on an angle, crimp and attach the bottom end first. This will allow gravity to help hold the guide pin in place when aligning and attaching tension receivers at the top*



# Viewrail Cablerail Installation Instructions for 2x2 Metal Posts — Page 2

## How to Thread and Tighten the Angle Tension Kit (VR294)

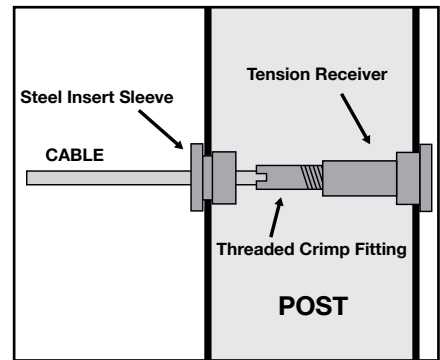
1. Place an Angle Washer on the Tension Receiver as shown in the VR294 diagram in the right column of this page.
2. Put the Threaded Crimp Fitting through the hole of an end post and thread the Tension Receiver on the Threaded Crimp Fitting. Only tighten 4 turns.
3. Thread the cable through the posts and put inserts on the cable.
4. Place the Guide Pin in the end of the Threaded Crimp Fitting and use it to align the threads with the Tension Receiver at the final post. Snug the cables, but do not tighten until all cables have completed this step.
5. Begin tightening at the middle of the post and work out using the Allen wrench and tightening tool. Tighten from each end so that the Threaded Crimp Fitting is into the post far enough that the sleeve can be inserted.
6. Use the Tightening Tool to hold the fittings in place while tightening. Do not allow the cable to spin while tightening.

## How to Install Steel Insert Sleeves

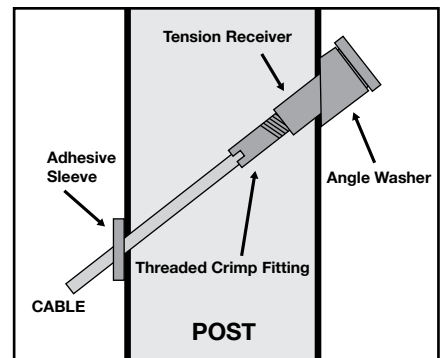
1. Make sure Steel Insert Sleeves are put on the cable as it is being strung through the posts. Only apply Steel Insert Sleeves once all other installations have been finished and cables are tightened.
2. When you are ready to apply the Steel Insert Sleeves, tap them in, using the wood block provided in your tool kit.

## How to Install Adhesive Sleeves

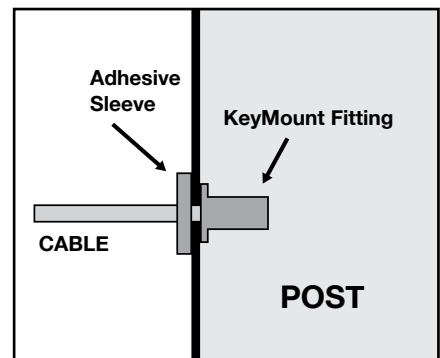
1. Make sure Adhesive Sleeves are put on the cable as it is being strung through the posts. Only apply Adhesive Sleeves once all other installations have been finished and cables are tightened.
2. You will want to be sure everything is secure because the Adhesive Sleeves are designed to stick to the post and it will be very difficult to take them off the post and reattach them.
3. Wipe the area on the post where the sleeves will be installed with a clean rag. Peel the backing off and do not touch the adhesive.
4. Once you are ready to apply the Adhesive Sleeves, simply press them against the post, applying moderate pressure for 3-5 seconds.



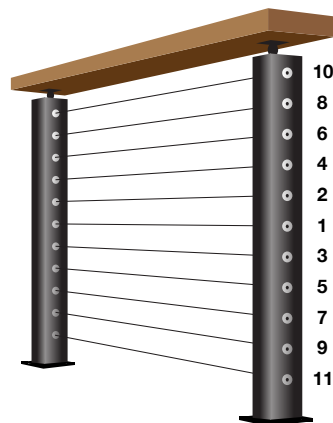
Level Tension Kit (VR290)



Angle Tension Kit (VR294)



KeyMount Kit (VR292)



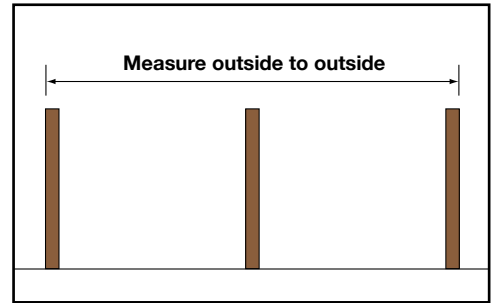
Cable tensioning should follow the numbered sequence (above) to perform proper installation.

# Viewrail Cablerail Installation Instructions for Wood Posts

Use care to keep steel tools, dirt and harsh chlorine based cleaners and acids away from stainless steel components before, during and after installation.

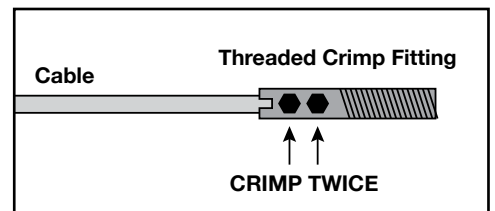
## How to Measure Cut Lengths for Cable

1. Measure the distance from the outside face of one end post (where the cable will be terminating) to the outside face of the other end post.
2. Based on which Kit you're installing, subtract the amount listed below to your measurement from the previous step:
  - Wood Level Tension Kit (VR295) on both ends — 2 1/2"
  - Wood Angle Tension Kit (VR299) on both ends — 1 1/2"
  - Wood Level Tension Kit & Wood Angle Tension Kit — 2"
3. Once you've determined cut length, mark cable and cut.



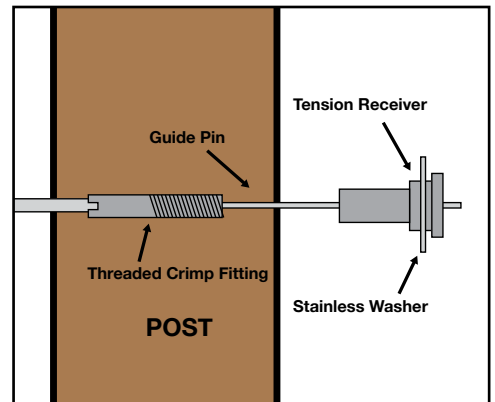
## How to Crimp Threaded Crimp Fittings

1. Slide the cable into the Threaded Crimp Fitting until it cannot slide any further.
2. Put the fitting, with the cable inside it, in between the crimper dies and crimp the fitting onto the cable.
3. Crimp all fittings twice.

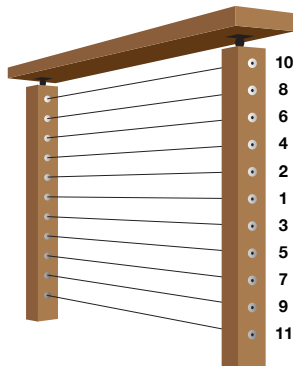


## How to Thread and Tighten the Level Tension Kit (VR295)

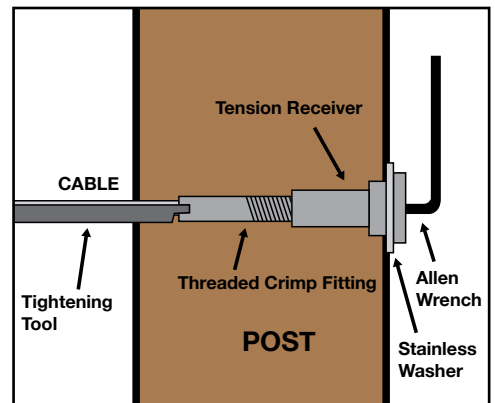
1. Place one Stainless Washer on a Tension Receiver.
2. Put the Threaded Crimp Fitting through the hole of an end post and thread the Tension Receiver on the Threaded Crimp Fitting. Only tighten 4 turns.
3. Thread the cable through the posts and put inserts on the cable. Use the guide pin to align the threads at the final post and snug the cables.
4. Begin tightening at the middle of the post then alternate up and down using the Allen wrench and Tightening Tool. Tighten from each end so the Threaded Crimp Fitting is into the post far enough that the sleeve can be inserted.
5. Use the Tightening Tool to hold the fittings in place while tightening with the Allen Wrench. Do not allow the cable to spin while tightening.



*Tip: When installing on an angle, crimp and attach the bottom end first. This will allow gravity to help hold the guide pin in place when aligning and attaching tension receivers at the top.*



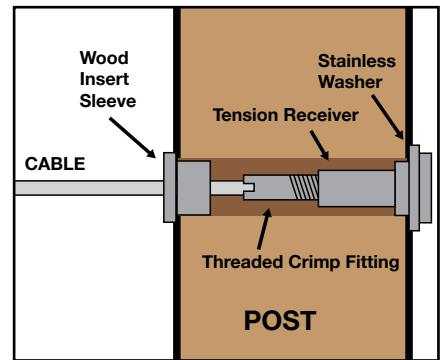
Cable tensioning should follow the numbered sequence (above) to perform proper installation.



## Viewrail Cablerail Installation Instructions for Wood Posts – Page 2

### How to Thread and Tighten the Level Tension Kit (VR299)

1. Place one Angle Washer, then one Oval Washer on a Tension Receiver as shown in the VR299 diagram in the right column of this page.
2. Put the Threaded Crimp Fitting through the hole of an end post and thread the Tension Receiver on the Threaded Crimp Fitting. Only tighten 4 turns.
3. Thread the cable through the posts and put inserts on the cable. Use the guide pin to align the threads at the final post and snug the cables.
4. Begin tightening at the middle of the post then alternate up and down using the Allen wrench and Tightening Tool. Tighten from each end so the Threaded Crimp Fitting is into the post far enough that the sleeve can be inserted.
5. Use the Tightening Tool to hold the fittings in place while tightening with the Allen Wrench. Do not allow the cable to spin while tightening.



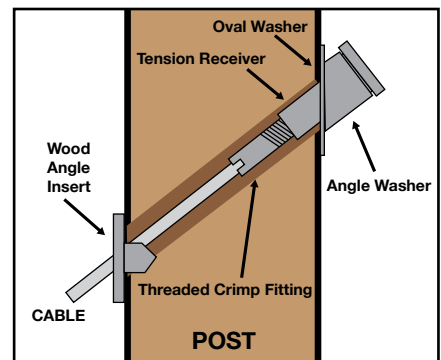
Wood Level Tension Kit (VR295)

### How to Install Wood Insert Sleeves

1. Make sure Wood Insert Sleeves are put on the cable as it is being strung through the posts. Only apply Wood Insert Sleeves once all other installations have been finished and cables are tightened.
2. When you are ready to apply the Wood Insert Sleeves, tap them in, using the wood block provided in your tool kit.

### How to Install Wood Angle Inserts

1. Make sure Wood Angle Inserts are put on the cable as it is being strung through the posts. Only apply Wood Angle Inserts once all other installations have been finished and cables are tightened.
2. Once you're ready to apply the Wood Angle Inserts, simply press the prongs into the hole, then tap in using the wood block provided in your tool kit.



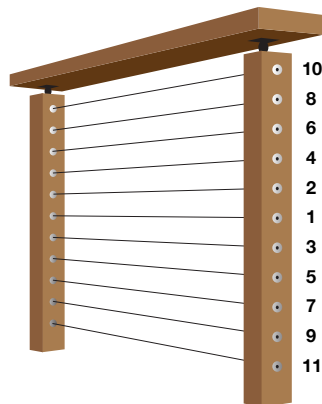
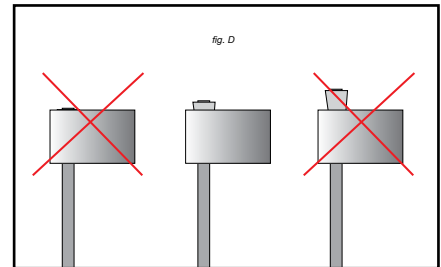
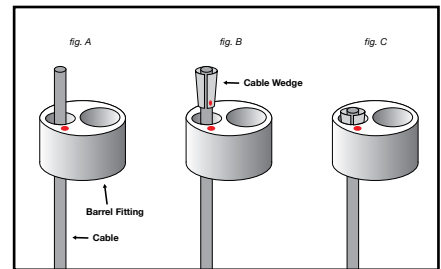
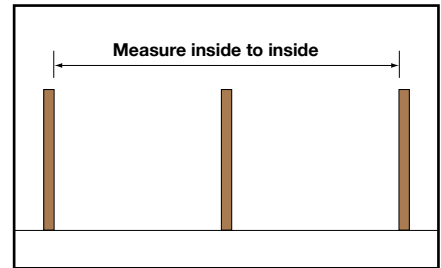
Wood Angle Tension Kit (VR299)

# Viewrail Cablerail Installation Instructions for DriveTite (PATENT PENDING)

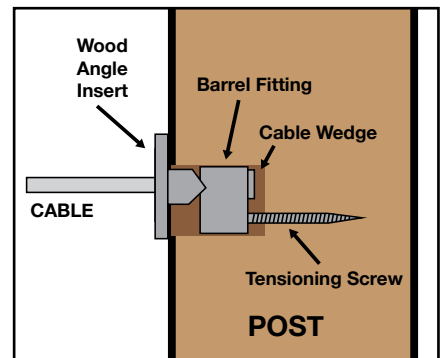
Use care to keep steel tools, dirt and harsh chlorine based cleaners and acids away from stainless steel components before, during and after installation.

## DriveTight Level Installation

1. Drill 5/8" holes 1 1/4" deep. We recommend a Forstner-style bit.
2. Place a 1/8" drill bit against the bottom side of the 5/8" hole. Drill a pilot hole with the 1/8" drill bit 1 1/2" deep.
3. Measure from the inside of face of one end post to the inside face of the other end post. Add 2 1/8" to this measurement. Cut the cable to this length.
4. Slide insert sleeve over the cable with the prongs facing toward the hole.
5. Slide the cable through the smallest hole on the Barrel Fitting. (see *fig. A*)
6. Slide the Cable Wedge over the end of the cable and insert it into the hole. The end of the Cable Wedge with the red dot should be entering the hole with a red dot. (see *fig. B*)
7. Press the Cable Wedge into the Barrel Fitting with pliers. (see *fig. C*) A properly compressed Cable Wedge will protrude approx. 1/8" from the Barrel Fitting. (see *fig. D*)
8. Insert the Tensioning Screw through the remaining hole in the Barrel Fitting.
9. Make sure that the 5/8" wood hole is empty of all debris and saw dust.
10. Start the Tensioning Screw into the pilot hole on the bottom side of the 5/8" diameter hole. Drive Tensioning Screw in until the end of the Barrel Fitting is 1/4" inside the post. DO NOT TIGHTEN AT THIS TIME.
11. Repeat Steps 4–10 on the other end of the cable run.
12. Tighten the cable alternating from one end to the other by driving the Barrel Fittings further into the posts as needed. Start tightening in the middle runs and work up and down alternately. (See Tensioning Diagram below.)
13. Press Wood Angle Inserts into the holes to complete installation.



Cable tensioning should follow the numbered sequence (above) to perform proper installation.



DriveTite Kit (VR297)



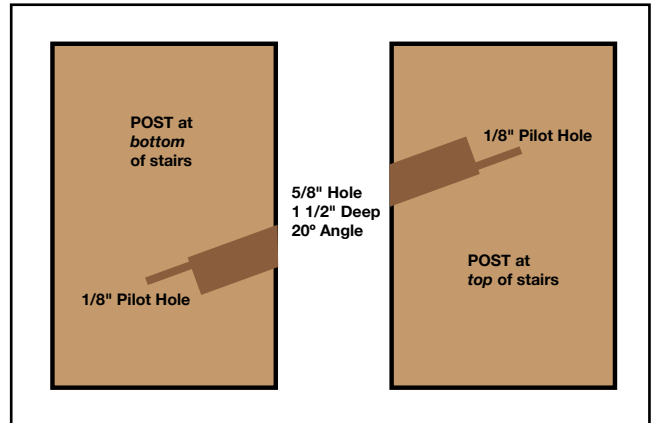
# Viewrail Cablerail Installation Instructions for DriveTite – Page 2

## DriveTight Angle Installation

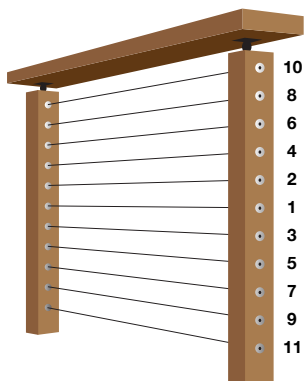
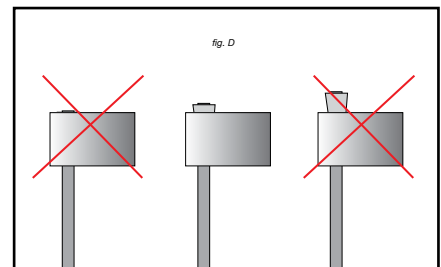
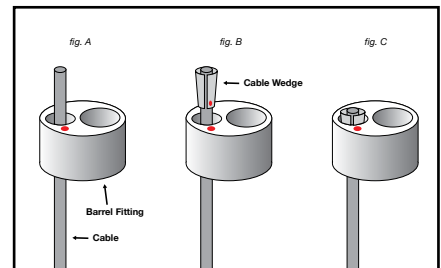
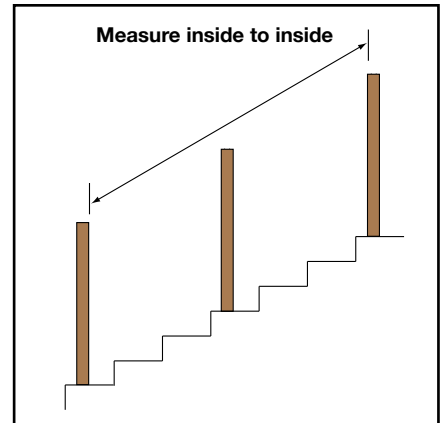
1. Mark the location for the holes based upon the angle of the stairs.

See Hole Drilling Diagram at right for steps 2 through 4.

2. Drill 5/8" holes 1 1/2" deep at about a 20 degree angle (should be about half the angle of the stairs). *We recommend a Forstner-style bit.*
3. At the top of the stairs, drill 1/8" pilot holes on the BOTTOM of the 5/8" hole. This orientation assures that the insert will cover the 5/8" hole.
4. At the bottom of the stairs, drill 1/8" pilot holes on the TOP of the 5/8" hole. This orientation assures that the insert will cover the 5/8" hole.
5. Measure from center of the hole to the center of the other hole. Add 2 3/4" to this measurement and cut the cable to this length. We highly recommend using a string to measure, then transfer the measurement from the string to the tape measure.
6. Slide Wood Angle Insert over the cable with the prongs facing toward the hole. Use painter's tape to hold them out of the way while installing.
7. Slide the cable through the smallest hole on the Barrel Fitting. (see *fig. A*)
8. Slide the Cable Wedge over the end of the cable and insert it into the hole. The end of the Cable Wedge with the red dot should be entering the hole with a red dot. (see *fig. B*)
9. Press the Cable Wedge into the Barrel Fitting with pliers. (see *fig. C*) A properly compressed Cable Wedge will protrude approx. 1/8" from the Barrel Fitting. (see *fig. D*)
10. Insert the Tensioning Screw through the remaining hole in the Barrel Fitting.
11. Make sure that the 5/8" wood hole is empty of all debris and saw dust.
12. Start the Tensioning Screw into the pilot hole on the bottom side of the 5/8" diameter hole. Drive Tensioning Screw in until the end of the Barrel Fitting is 1/4" inside the post. **DO NOT TIGHTEN AT THIS TIME.**
13. Repeat Steps 5–12 on the other end of the cable run.
14. Tighten the cable alternating from one end to the other by driving the Barrel Fittings further into the posts as needed. Start tightening in the middle runs and work up and down alternately. (See Tensioning Diagram below.)
15. Press Wood Angle Inserts into the holes to complete installation.



Hole Drilling Diagram



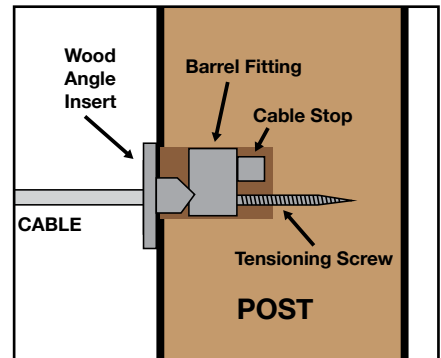
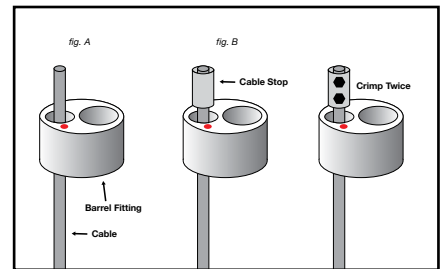
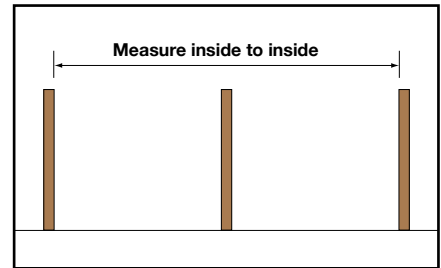
Cable tensioning should follow the numbered sequence (above) to perform proper installation.

# Viewrail Cablerail Installation Instructions for DriveTite VR298

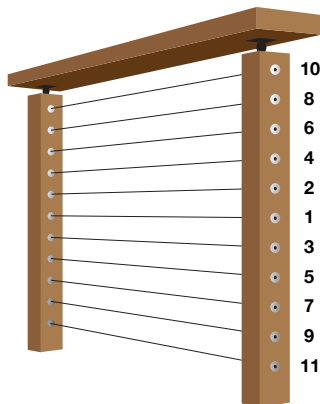
Use care to keep steel tools, dirt and harsh chlorine based cleaners and acids away from stainless steel components before, during and after installation.

## DriveTight Level Installation

1. Drill 5/8" holes 1 1/4" deep. *We recommend a Forstner-style bit.*
2. Place a 1/8" drill bit against the bottom side of the 5/8" hole. Drill a pilot hole with the 1/8" drill bit 1 1/2" deep.
3. Measure from the inside of face of one end post to the inside face of the other end post. (See diagram at right.) Add 2 1/8" to this measurement. Cut the cable to this length.
4. Slide insert sleeve over the cable with the prongs facing toward the hole.
5. Slide the cable through the smallest hole on the Barrel Fitting. (see *fig. A*)
6. Slide the Cable Stop over the end of the cable and crimp it twice. The Cable Stop should be entering the hole with a red dot. (see *fig. B*)
7. Insert the Tensioning Screw through the remaining hole in the Barrel Fitting.
8. Make sure that the 5/8" wood hole is empty of all debris and saw dust.
9. Start the Tensioning Screw into the pilot hole on the bottom side of the 5/8" diameter hole. Drive Tensioning Screw in until the end of the Barrel Fitting is 1/4" inside the post. **DO NOT TIGHTEN AT THIS TIME.**
10. Repeat Steps 4–10 on the other end of the cable run.
11. Tighten the cable alternating from one end to the other by driving the Barrel Fittings further into the posts as needed. Start tightening in the middle runs and work up and down alternately.
12. Press Wood Angle Inserts into the holes to complete installation.



DriveTite Kit (VR298)



Cable tensioning should follow the numbered sequence (above) to perform proper installation.



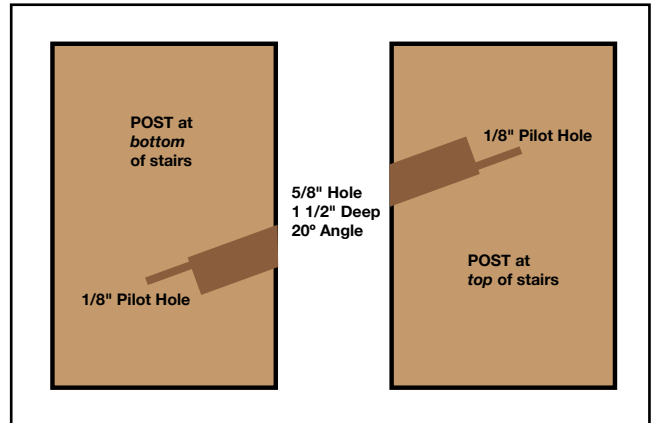
# Viewrail Cablerail Installation Instructions for DriveTite VR298 – Page 2

## DriveTight Angle Installation

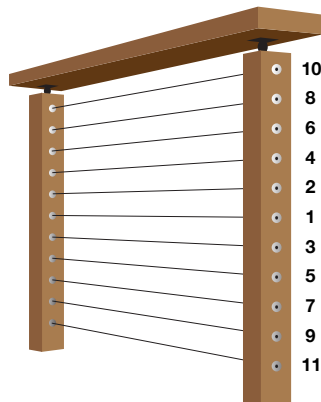
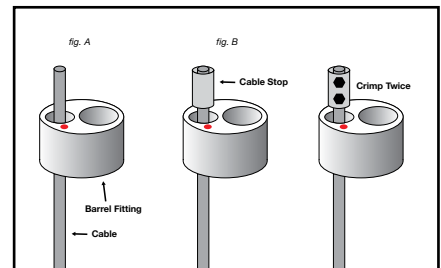
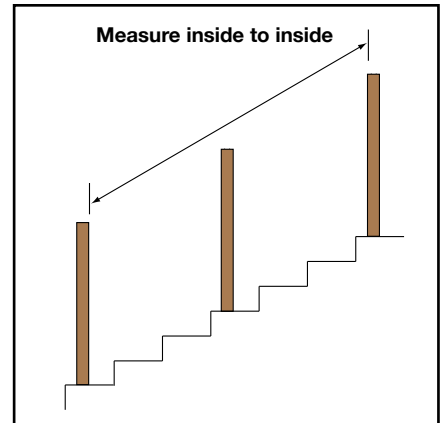
1. Mark the location for the holes based upon the angle of the stairs.

See Hole Drilling Diagram at right for steps 2 through 4.

2. Drill 5/8" holes 1 1/2" deep at about a 20 degree angle (should be about half the angle of the stairs). *We recommend a Forstner-style bit.*
3. At the top of the stairs, drill 1/8" pilot holes on the BOTTOM of the 5/8" hole. This orientation assures that the insert will cover the 5/8" hole.
4. At the bottom of the stairs, drill 1/8" pilot holes on the TOP of the 5/8" hole. This orientation assures that the insert will cover the 5/8" hole.
5. Measure from center of the hole to the center of the other hole. (See diagram at right.) Add 2 3/4" to this measurement and cut the cable to this length. We highly recommend using a string to measure, then transfer the measurement from the string to the tape measure.
6. Slide Wood Angle Insert over the cable with the prongs facing toward the hole. Use painter's tape to hold them out of the way while installing.
7. Slide the cable through the smallest hole on the Barrel Fitting. (see *fig. A*)
8. Slide the Cable Stop over the end of the cable and crimp it twice. The Cable Stop should be entering the hole with a red dot. (see *fig. B*)
9. Insert the Tensioning Screw through the remaining hole in the Barrel Fitting.
10. Make sure that the 5/8" wood hole is empty of all debris and saw dust.
11. Start the Tensioning Screw into the pilot hole on the bottom side of the 5/8" diameter hole. Drive Tensioning Screw in until the end of the Barrel Fitting is 1/4" inside the post. **DO NOT TIGHTEN AT THIS TIME.**
12. Repeat Steps 5–12 on the other end of the cable run.
13. Tighten the cable alternating from one end to the other by driving the Barrel Fittings further into the posts as needed. Start tightening in the middle runs and work up and down alternately.
14. Press Wood Angle Inserts into the holes to complete installation.



Hole Drilling Diagram



Cable tensioning should follow the numbered sequence (above) to perform proper installation.

# Viewrail Troubleshooting Guide

**“My cable unravels when I cut it.”** — Your cutters are dull and need to be sharpened or replaced.

**“I cut the cable to length you showed me in the instructions but it is a little too short on one end. I think I should cut it longer.”** — You likely threaded the Threaded Crimp Fitting all the way into the Tension Receiver. Back it out and tension both ends at the same time.

**“It is really hard to get the threads to line up since I am doing it blind in the hole.”** — Use the Guide Pin as described in the instructions to simplify the threading process.

**“I tightened up the cable like you said, but when I come back a day later it is loose. No matter how many times I tighten it it comes loose.”** — You probably “wound up” the cable. If the cable spins and winds up, overnight it will unwind and loosen. When you tighten the cable make sure that you use the Tightening Tool to hold the crimp fitting so that the cable does not spin while you tighten the Tension Receiver.

**“How do I get the Steel Insert Sleeves out without scratching my post?”** — Use a plastic putty knife to carefully pry them out.

**“How do I get the Steel Insert Sleeves to stay in the holes? (I may have put them in and taken them out a few times.)”** — The Steel Insert Sleeves have a very small lip that may get rolled over after several uses. Apply a small amount of silicone, put the insert back in, and apply some painters tape on the inserts until the silicone sets up.

**“The Adhesive Sleeve isn’t sticking to the post. It keeps falling off.”** — If the post is dirty or fingers touch the adhesive, then the adhesive may not hold to the post. A small amount of superglue can be used to reattach Adhesive Sleeves.

## DriveTite Troubleshooting

**“I am really struggling to run the screw into the wood posts.”**

- If you use a paddle bit or spade bit or twist bit, then you will get a round bottom hole with a point in the center. This will cause your screw to want to move to the center of the hole and will cause it to bind. Drill the hole with a Forstner style bit to get a flat bottom.
- The T25 has a 6” extension. Be sure to use the 6” extension so that your drill has a better angle for running in the screws.
- If you are using a large drill it will make the angle difficult for running in the screw. Try a compact screw gun.
- If you are going into a hard wood, you must pre-drill the hole for the screw.

**“The Insert Sleeve doesn’t cover the hole on an angle.”**

- You may have installed the Barrel Fitting upside down, see drawings on the instruction sheet to confirm proper installation.
  - You may have drilled the 5/8” hole at too steep of an angle. Drill the holes about 20 degrees or 1/2 the angle of the stairway.
-