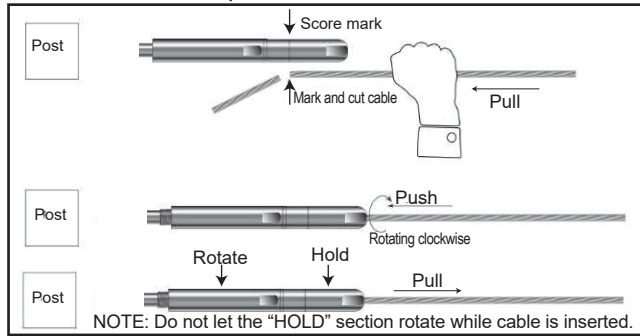


STEP 6B: ENDING/CUTTING CABLE AT TERMINATION POST

After the cable is anchored in the non-tension end and threaded through all of the mid post and/or intermediate pickets.



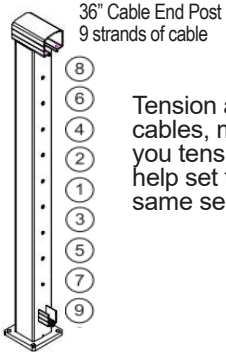
- Hand pull the cable to score line on the tensioner
- Mark cable at the score line and cut
- Remove the female threaded rotating portion of fitting and push the cable wire into the female tensioner.
- While holding the front section of hardware, rotate the female threaded portion (middle to end section of the fitting) back onto the male thread.

STEP 7: TENSIONING CABLE

After attaching the non-tensioning fitting, tension cable by holding tensioner body at 3/8" wrench flat nearest cable (**do not let this section rotate while cable is inserted**) and rotating female threaded section of fitting with a 3/8" open-end wrench onto threads.



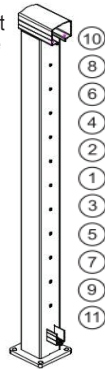
STEP 7A: TENSIONING CABLE



36" Cable End Post
9 strands of cable

Tension all cable in sequence, beginning with the center cables, moving up and down towards the top and bottom. As you tension each cable, pull sharply downward mid-span to help set the wedges, then re-tension as necessary in the same sequence.

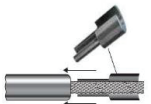
42" Cable End post
11 strands of cable



KEY INSTRUCTIONS

The key opens the spring-loaded jaws that grip the cable prior to tensioning. The key is used when you want to remove the cable from the Threaded Bolt during the installation. This key opens the spring-loaded jaws and will help to insert the cable into the Bolt if you are having trouble with that step.

**** Not to be used after the cable has been tensioned****



1. Slide the groove of the key along the cable until the cable is completely inside the groove. Carefully insert the key into the Bolt opening.



2. Push down until the key reaches the end, you will feel resistance from the spring loaded jaws.



3. The cable will now safely come free from the Bolt without damaging the jaw mechanism.

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READ ALL INSTRUCTIONS COMPLETELY BEFORE STARTING INSTALLATION

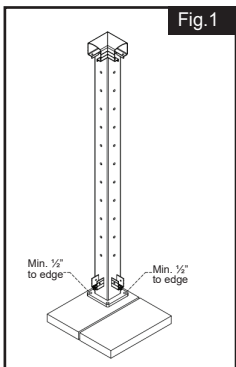
It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The railing installer should determine and implement appropriate installation techniques for each installation situation. VISTA Railing Systems Inc, its distributors and dealers shall not be held liable for improper or unsafe installations. VISTA Railing Systems posts must always be secured to the sub structure and should never be attached to only the surface material (ie deck board). Failure to follow all of these instructions could result in serious injury or death.

Tools & Materials Required:

- Handsaw 10" Miter Saw with thin (Kerf) Blade
- Electric Drill - 1/8" and 3/16"
- Drill Bits 3/8" Hex Head Driver
- Torx Screwdriver - T25 drive
- Robertson Screwdriver - #2
- Measuring Tape
- Rubber Mallet (optional)

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Revised January 2023 V1

STEP 1: POST ATTACHMENT



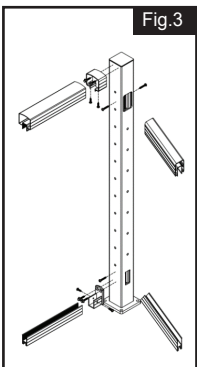
Locate posts as required with the bottom plate $\frac{1}{2}$ " from the edge of the deck (a greater distance from edge may be required on some decks so that post anchoring screws can be attached to solid wood under deck surface).

STEP 2: POST TO RAIL ATTACHMENT

Install posts at this time with only fasteners that meets or exceeds local building department requirements. This will allow enough movement in the post for installation of top rail later. (see Step 4)

NOTE: Deck fasteners are not included.

STEP 3: BRACKET ATTACHMENT



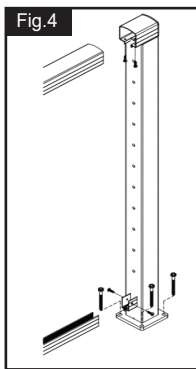
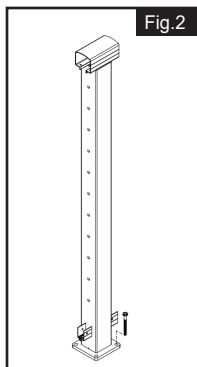
Install post brackets as required. (See Fig. 3)

STEP 4: TOP & BOTTOM RAIL ASSEMBLY

NOTE: Top and bottom rail with picket gasket can be cut at same time. We recommend drilling a $\frac{3}{16}$ " hole every 2 - 3 feet in bottom rail to allow water drainage.

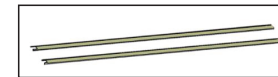
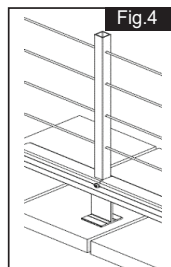
Measure distance between posts, deduct $\frac{1}{2}$ " and cut top rail section. Install top rail securing one end only using #10 x $\frac{3}{4}$ " TEK screws provided with post. Check to ensure posts are perpendicular to deck surface, and install remainder of post to deck fasteners. Refer to step 2 for appropriate method to attach posts and note about fasteners. (use exterior silicone "non-corrosive" caulking in screw holes for waterproofing). Repeat and secure opposite end of top rail. Space bottom rail support legs evenly between posts and secure into the deck with #10 x $\frac{1}{4}$ " screw (included). Repeat procedure every section approximately every 36-48" in rough position.(see Fig.A)

Important: Secure both rail ends using two of the #10 x $\frac{3}{4}$ " TEK screws provided, one from each side. (see Fig.3 and 4)



STEP 4A: CHANNEL COVER

Channel Cover package contains 2 pieces; one notched for level intermediate picket spacer and one for stair intermediate picket spacer.



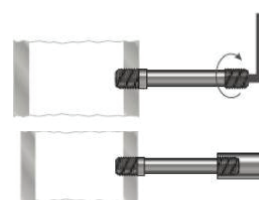
Each set is to wrap around the intermediate picket spacer on the top or the bottom (see Fig.4).
For level installation: measure, cut and install channel cover on top or bottom rail using 0.63" notch to fit around intermediate picket. Measure distance from other post to other side of picket; mark this distance on other piece ensuring to cut off 0.88" notch.
Install channel cover on top or bottom rail to complete.

STEP 5: NON-TENSIONING FITTING ASSEMBLY (POST A)

Place the black washer over the threaded Push-Lock bolt. Place fitting into the pre-drilled and tapped $\frac{5}{16}$ " hole in the Post A and turn it into the hole. Careful not to cross thread the fitting. Stop turning when shoulder on fitting between threaded bolt and body makes contact with metal post.



STEP 5A: TENSIONING FITTING ASSEMBLY (POST B)



The Tensioner comes with the threaded Bolt attached you need to separate them first

Using the Push-Lock Tensioner with Threaded Bolt, hand turn the threaded bolt component of the assembly clockwise into the post, tightening with a $\frac{3}{16}$ " hex wrench. Assemble female threaded rotating portion of fitting onto male thread only so far as to cover the male thread and no more.

STEP 6: CABLE ASSEMBLY

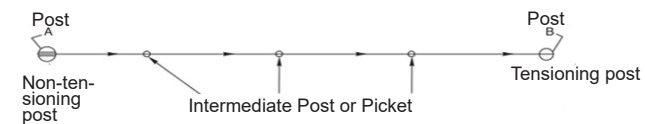
Feed the cable into the non-tension/Lock Bolt cable.

Note: If you have trouble inserting the cable into the fitting, it may be because the locking wedges have become stuck. This is not a defect! Here's what you can do to "free the wedges"...Insert the key into the hole and press until the wedges move freely. Only use the key as you may risk damaging the locking mechanism.



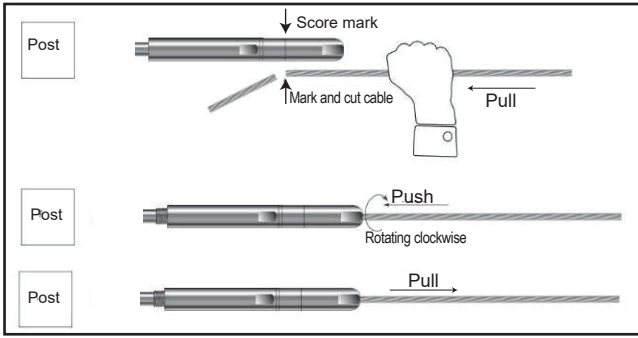
STEP 6A: THREADING CABLE THROUGH INTERMEDIATE POSTS

Starting at Post A; feed the bare end of the cable through all of the Mid Posts and Intermediate Pickets.



NOTE: Mid Posts or Intermediate Pickets should not be more than 48" apart.

STEP 6B: ENDING/CUTTING CABLE AT TERMINATION POST



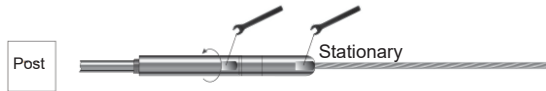
After the cable is anchored in the non-tension end and threaded through all of the mid post and/or intermediate pickets.

- Hand pull the cable to score line on the Tensioner
- Mark cable at the score line and cut
- Remove the female threaded rotating portion of fitting and push the cable wire into the female tensioner.
- Rotate the female threaded portion of fitting back on the the male thread.

NOTE: Do not let this section rotate while cable is inserted.

STEP 7: TENSIONING CABLE

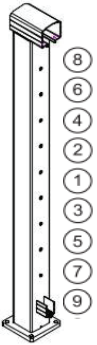
After attaching the non-tensioning fitting, tension cable by holding tensioner body at 3/8" wrench flat nearest cable (**do not let this section rotate while cable is inserted**) and rotating female threaded section of fitting with a 3/8" open-end wrench onto threads.



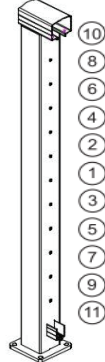
STEP 7A: TENSIONING CABLE

36" Cable End Post
9 strands of cable

42" Cable End post
11 strands of cable



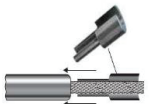
Tension all cable in sequence, beginning with the center cables, moving up and down towards the top and bottom. As you tension each cable, pull sharply downward mid-span to help set the wedges, then re-tension as necessary in the same sequence.



KEY INSTRUCTIONS

The key opens the spring-loaded jaws that grip the cable prior to tensioning. The key is used when you want to remove the cable from the Threaded Bolt during the installation. This key opens the spring-loaded jaws and will help to insert the cable into the Bolt if you are having trouble with that step.

**** Not to be used after the cable has been tensioned****



1. Slide the groove of the key along the cable until the cable is completely inside the groove. Carefully insert the key into the Bolt opening.



2. Push down until the key reaches the end, you will feel resistance from the spring loaded jaws.



3. The cable will now safely come free from the Bolt without damaging the jaw mechanism.

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Residential Aluminum Cable Stair Railing Assembly Instructions

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Tools & Materials Required:

- Handsaw 10" Miter Saw with thin (Kerf) Blade
- Electric Drill - 1/8" and 3/16"
- Drill Bits 3/8" Hex Head Driver
- Torx Screwdriver - T25 drive
- Robertson Screwdriver - #2
- Measuring Tape
- Rubber Mallet (optional)

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Revised January 2023 V2

STEP 1: MEASURING THE STAIRS

To measure stair length use the following:

- If bottom post to sit on last thread

Fig.1A

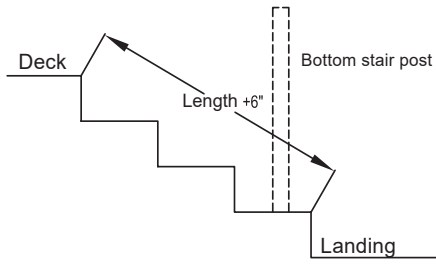
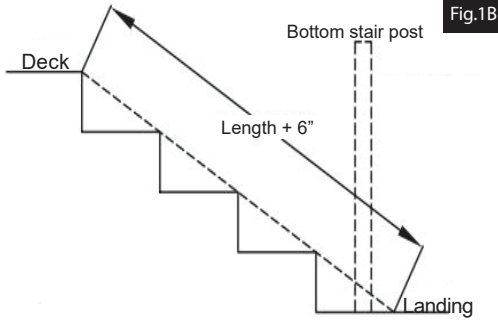


Fig.1B



STEP 2: POST TO RAIL ATTACHMENT

Install top post at edge of deck. (see Fig. 2), utilizing appropriate post to deck fasteners that meet or exceed minimum requirements. Install bottom stair post so that when bottom rail is placed in the post cut-outs (see Fig. 2), there is a consistent space between underside of bottom rail and edge of stairs. Guardrails shall not be less than: 900mm (35-716") high for Canada and 34"-38" high for USA measured vertically from the top rail/guardrail to nosing.

Place top and bottom rails into the cut-out holes in the posts. Using the screws provided, fasten top & bottom rails with #10 x 1" Tek screws. For longer runs, a midpost may be placed in the run (see Step 3).

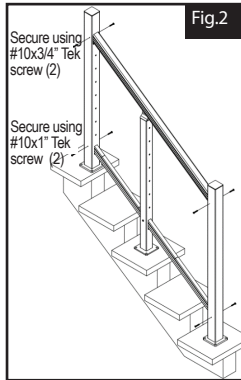


Fig.2

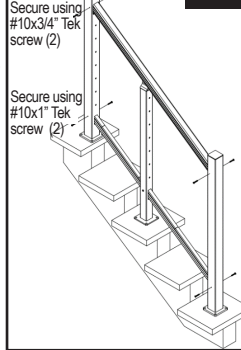


Fig.2

NOTE: The top and bottom rails should ingress the top and bottom post cut-outs by 1 1/2".

STEP 3: MID STAIR POST SPLICE ASSEMBLY

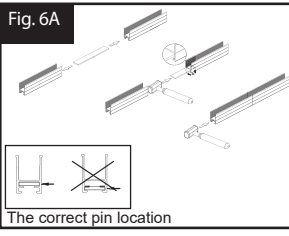
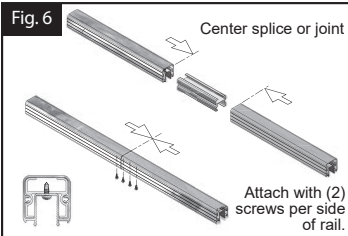


Fig. 6A

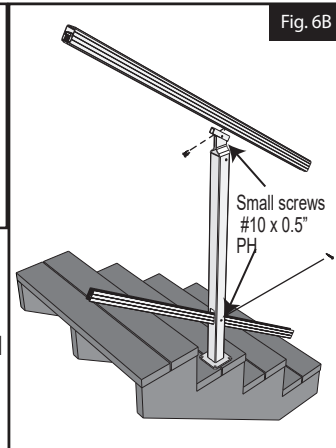


Fig. 6B

A stair mid post may be placed in the run (see Fig. 6B), utilizing approved mounting bolts/fasteners that meet or exceed local building department requirements (these are not included with posts). A mid stair post and splicing of stair rails will only be necessary when your run is longer than 96". You will need to remove and cut the gasket where the mid stair pivot sits to ensure the rail fits over top of the mid stair post. Insert (provided) fasteners into pivot head and outside of the post to secure railing. (see Fig 6B)

STEP 4: CHANNEL COVER

Channel Cover package contains 2 pieces; one notched for level intermediate picket spacer and one for stair intermediate picket spacer.

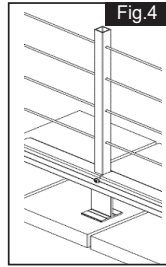
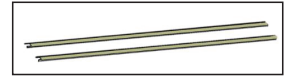


Fig. 4



Each set is to wrap around the intermediate picket spacer on the top or the bottom (see Fig.4).

For stair installation: measure, cut and install channel cover on top or bottom rail using 0.88" notch to fit around intermediate picket. Measure distance from other post to other side of picket; mark this distance on other piece ensuring to cut off 0.63" notch (stair). Install another channel cover pack on other rail to complete. If the space between the posts is less than/ or equal to 48", cut the notches off both channel covers.

STEP 5: NON-TENSIONING FITTING ASSEMBLY (POST A)

Turn the fitting into the pre-drilled and tapped 5/16" hole in the stair post using the articulating portion of the fitting as a lever to rotate the threaded end of fitting. Stop turning when shoulder on fitting between threaded bolt and body makes contact with metal post. Continue to rotate fitting up to 1/4 turn to properly orient the fitting.



STEP 5A: TENSIONING FITTING ASSEMBLY (POST B)

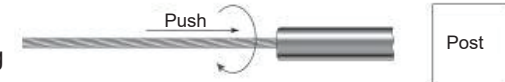


Using the Push-Lock Tensioner with Threaded Clevis, hand turn the threaded clevis into the post using the articulating portion of the fitting as a lever to rotate the part. Tighten such that the unattached arm hangs vertically. Assemble female threaded rotating portion of fitting onto male thread only so far as to cover the male thread and no more.

STEP 6: CABLE ASSEMBLY

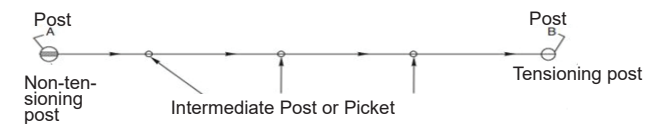
Feed the cable into the non-tension/Lock Bolt cable.

Note: If you have trouble inserting the cable into the fitting, it may be because the locking wedges have become stuck. This is not a defect! Here's what you can do to "free the wedges"...Insert the key into the hole and press until the wedges move freely. Only use the key as you may risk damaging the locking mechanism.



STEP 6A: THREADING CABLE THROUGH INTERMEDIATE POSTS

Starting at Post A; feed the bare end of the cable through all of the Mid Posts and Intermediate Pickets.



NOTE: Mid Posts or Intermediate Pickets should not be more than 48" apart.