

Read all instructions prior to installing product. Always wear safety goggles.



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CABLE INSTALLATION

TOOLS NEEDED:

- Safety goggles
- Tape measure
- Pencil / Level / Chalk Line
- Clamps

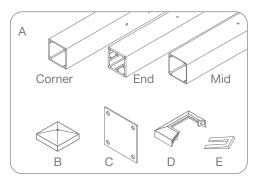
- Power screwdriver/drill
- 7/16" and 1/8" Drill Bits
- Hacksaw or Chopsaw
- Scissors or utility knife
- Rubber mallet

- Fine-tooth carbide blade
- Felco Type Cable Cutters
- Cut-off Wheel
- #2 Square Drive

COMPONENT LIST:

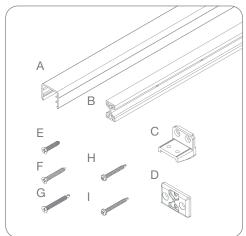
Check the kit to ensure all components are included.

POST KITS:



- A) Pre-drilled Post with Pre-Mounted Base Plate (End, Mid, or Corner) 1
- B) Pyramid Post Cap 1
- C) Secondary Mounting Plate 1
- D) 2-Piece Trim Ring 1
- E) Leveling shims 2

LEVEL BEAM KITS:

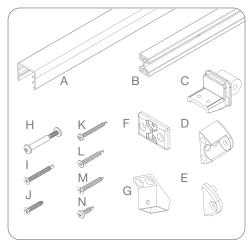


- A) Top Beam 1
- B) Mid Rail Support 1
- C) Top Rail Brackets 2
- D) Mid Rail Support Foot 2

E) #10 x 1" Flat Head Screws - 4

- F) #10 x 1½" Flat Head Wood Screws 2
- G) #10 x 1¾" SS Self Driving Flat Head Screws 2
- H) #8 x 11/2" Sq. Drive Pan Head Screws 9
- I) #8 x 15/8" Sq. Drive Pan Head Screws 4

STAIR BEAM KITS:



- A) Top Beam 1
- B) Mid Rail Support 1
- C-E) Top Rail Bracket Components 2 each
- F) Mid Rail Support Foot 1
- G) Mid Rail Stair Adapter 1
- H) Binding Post + Screw 2 sets
- I) #10x 13/4" Flat Head Screws 2
- J) $#10 \times 1$ " Flat Head Screws 2
- K) #8 x 15/8" Sq. Drive Pan Head Screws 4
- L) #10 x 11/2" Sq. Drive Flat Head Screws 4
- M) #10 x 11/2" Flat Head Wood Screws 2
- N) #10 x 3/4" Pan Head Set Screw 1

WARRANTY & REGISTRATION

To obtain and review a copy of the warranty please visit: barretteoutdoorliving.com. You may also contact us at 1-800-336-2383 or email Cs.outdoorliving@ebarrette.com

LEVEL CABLE INSTRUCTIONS

1.

Note: Once the layout for posts is determined, all posts, rails, and mid supports should be installed BEFORE installing the cable. Post spacing is true length, the distance from inside face of one post to inside face of the next post. See table below for finished opening requirements between posts.

INSTALLING CABLES: Additional cable installation instructions and tensioning details are included with cable and fittings, follow those instructions to complete installation.

PLANNING:

Posts are designed and manufactured to accept 3/8" fasteners (sold separately). Be sure to use appropriate fasteners for your installation.

Determine the desired rail placement and snap a chalk line onto the mounting surface to ensure that all posts are aligned properly (Fig 1).

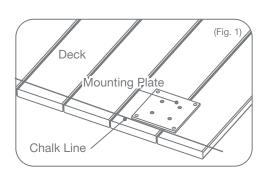
Determine the appropriate method for installing your posts. If fascia mount cable posts are used the maximum spacing between posts is 48".

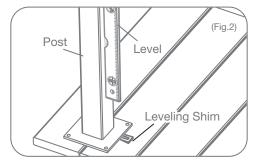
CONCRETE SURFACE INSTALLATIONS:

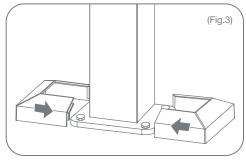
Purchase four 3/8" masonry anchors according to local building codes.

Mark holes through mounting plate onto concrete surface and follow masonry anchor manufacturer installation instructions. Plumb and level the posts using leveling shims (included) (Fig. 2), secure the posts in place.

Install base trim sections around post Insert the plastic attachment plugs into the holes on the underside of the trim ring half. Place trim ring halves on the post base plate and push together (Fig. 3).







DECK/WOOD SURFACE INSTALLATIONS:

For decking applications, use the provided secondary mounting plate when securing posts in place.

Beneath all post locations install at least two 2" x 8" blocks using at least three #10 x $3\frac{1}{2}$ " deck screws penetrating through the joists at least $1\frac{1}{2}$ " into the blocks (sold separately) (Fig. 4 & 5).

Mark holes through the bottom of the post plate onto deck surface. Remove post and drill 7/16" holes in all four marks through deck board and blocking.

Purchase 3/8" diameter hot-dipped galvanized or stainless steel bolts and nuts approximately 1" longer than the distance between steel mounting plates (minimum 5").

Push bolts through post plate and attach separate bottom plate from beneath deck surface (Fig. 6). Plumb and level the posts using leveling shims (included) (Fig. 2).

Tighten bolts. Install base trim sections around post. Insert the plastic attachment plugs into the holes on the underside of the trim ring half. Place trim ring halves on the post base plate and push together (Fig. 3).

Corner Post Note: The corner post includes an insert used to guide the cables along the 90 degree turn. This must be inserted on the inside corner of the post before bracket installation (Fig 11 & 12).

When pulling cable through a corner application a maximum of two corners with a maximum span of 40ft can be achieved.

2.

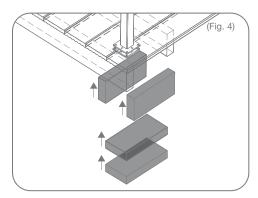
INSTALLING BRACKETS:

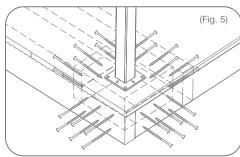
Bottom rails are not included in the beam kits nor required for installation. An installation template is included with each bracket kit (included in beam kits) to easily locate bracket placement. This template has Top and Bottom markings, but only the top portion is to be used (easily identifiable with the word Top and 4 screw holes) during bracket installation.

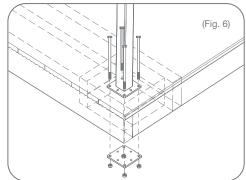
Open the paper bracket mounting template, align base trim with the appropriate guide on template and secure template in place using a piece of tape. Pre-drill through the top bracket holes ONLY using a 1/8" drill bit. Remove template and secure brackets (Fig. 7).

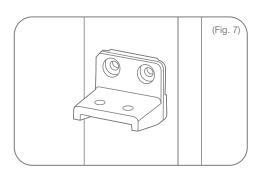
NOTE:

Mounting hardware included in bracket kits is comprised of (8) 1½" screws and (4) 15%" screws. Be sure to use 1½" screws when installing brackets to the post and keep longer 15%" screws for installing top rail. 15%" are specifically designed to be longer and lock top rail in place at the end of installation.









3.

CUT TOP RAIL AND TOP BEAM:

Measure the distance between inside of posts. Subtract ½" from this distance and cut top beam and top rail to length using a carbide tip blade of at least 60 teeth.

4.

INSTALL TOP RAIL:

Insert top beam inside top rail and ensure the ends are aligned. Press top rail end covers onto the top rail and set in place on the brackets attached to the post (Fig. 8).

Using the holes in the bracket as a guide, pre-drill two 1/8" holes from under the bottom of the beam up through the top rail as shown in Figure 9. Apply downward pressure on the top rail to keep it in place. Maintain downward pressure and drive two 15/8" screws up through the hole locking the bracket, beam, and top rail together, being careful not to drill through the top of the top rail (circled with dotted line).

5.

PREPARE MID RAIL SUPPORT:

One mid rail support is required for all railing installed more than 48" between inside faces of each post for spans up to 96" wide.

Attach support feet to mid rail support (Fig. 10) using (4) $\#10 \times 1$ " self-drilling sheet metal screws.

6.

INSTALL MID RAIL SUPPORT:

Align mid rail support - center in your cable span. Attach mid rail support to top rail, same as figure 9 pre-drilling and screwing through top beam and top rail using (2) #10 13/4" Phillips drive self drilling screws.

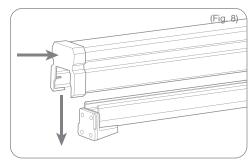
NOTE: Bottom of mid rail has a distance of 27/8" from the end of the support to the first hole.

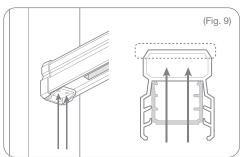
Check for plumb, then attach base to deck surface using (2) #10 x 1½" screws.

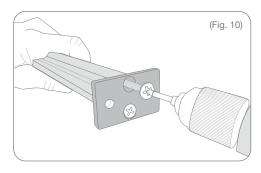
Repeat this for all level sections on job before installing cable. Follow level cable instructions included with cable and fittings to complete installation.

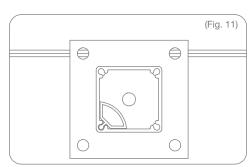
NOTE: Lacing needles for both corner (# 73050057) as well as mid and end posts (# 73050056) are sold separately. These tools are recommended to simplify threading cables through all posts. If cable tension adjustments are needed after installation is complete, a cable gripper tool (# 73050244) is available.

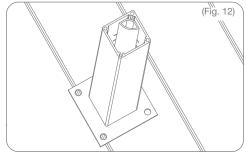
Complete your installation by installing post caps.











STAIR CABLE INSTRUCTIONS

Note: Posts – Locate the position of your posts on the stairs. Once posts are located, follows steps shown in level railing to ensure proper blocking is in place and secure prior to installing stair railing. Note that top and bottom end post come pre-drilled to accept cable and fittings horizontal to the ground in the same fashion that level cable is installed. Holes do not need to be on an angle and additional adapters are not needed.

At the top of the stairs, you will use a 39" (for 36" high panel) or 45" (for 42" high panel) end post to accept the cable fittings.

At the bottom of stair, you have two options for the bottom posts. Option 1 is to mount the post on the stair tread (Fig. 13), and option 2 is to mount the post on the ground in front of the first stair step (See Fig. 14).

1,

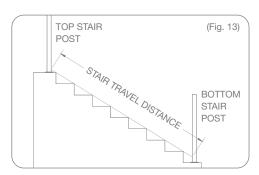
PLANNING:

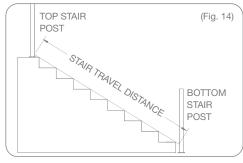
Follow the fastener and blocking recommendations from Step 1 of the level instructions. All stair posts must be setback a minimum distance of 2" from the nose of the stair (Fig 15). All other posts should set back the same distance for the cable to line up correctly.

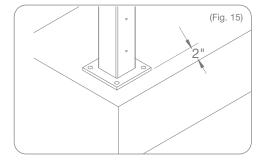
If the stair travel distance (See Fig. 13) is more than 8', one middle post is needed. The middle posts has pre-drilled slots to accommodate 26 - 38 degree stair angles. If the stair distance is less than 8', the beam kit will include the mid rail support you need for the distance traveled.

For option 2, we offer 55" bottom posts with pre-cut holes for cable and cable fittings. Those bottom posts can be cut to the proper length you need on the site.

Note: For any cable stair installation it may be useful to loosely string one cable through the posts before securing to the surface. Check to ensure the cable lines up correctly and adjust your post placement if needed before final placement is determined. If fascia mount cable posts are used the maximum spacing between posts is 48".







2.

INSTALLING TOP STAIR BRACKETS:

Loosely assemble the bracket base and cover (bracket components shown in Figure 16), and use them as a template to mark the locations for pre-drilling. (If the base is centered WITHOUT cover, rail will NOT be centered). Place the base and cover on the post and mark two hole locations for each base shown in Fig. 17. Pre-drill using 1/8 bit and secure the base to post using non-painted flat head 1½" screws provided.

For 32° stair install, the base locations should be $2\frac{1}{4}$ " above the middle of the top hole on the posts (Fig 17). For 26° stair you can move the base up $\frac{1}{4}$ " For 38° stair you can move it down $\frac{1}{4}$ ".

3.

INSTALLING THE TOP RAIL:

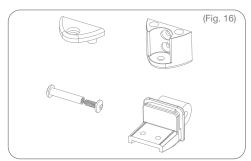
Temporarily assemble the top stair brackets. Slide the top stair brackets into the bracket base, align the cover, and fasten all them together using the hinge bolt provided (Fig. 18).

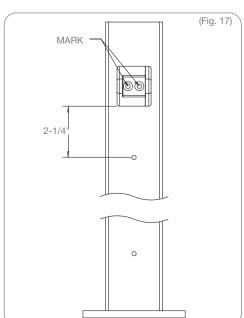
Adjust the top stair bracket to match the stair angle. Align the top beam with the brackets and mark both ends (Fig. 19). Cut at these marks and test for proper fit.

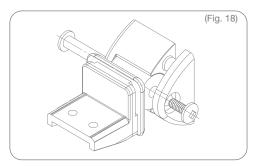
Measure the length of the top beam and cut the top rail (sold separately) to the same length. Insert the top channel into the top rail and ensure both ends are aligned. Disassemble both top brackets by removing the hinge bolt. Align the stair bracket with the rail end (Fig 20). Using the pre-drilled holes as a guide, drill through the railing using a 1/8" bit as shown, (Fig. 21) being careful not to drill through the top of the top rail (circled with dotted lines Fig. 21).

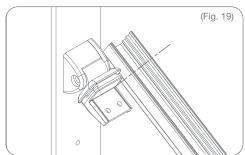
Press the top rail covers on both ends of top rail. Slide the top stair brackets in place at the top rail ends (Fig. 22). Ensure that the top rail covers nest into the grooves of the brackets. Align the bracket, the top rail and its cover.

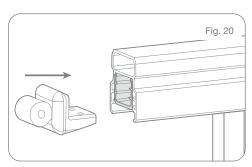
For each bracket, drive two #8 15%" painted pan head screws through the pre-drilled holes locking the bracket, top channel and top rail together. After the top rail is secured on both ends, slide the brackets into the bases on the posts and lock the assembly using the base covers and hinge bolts provided.

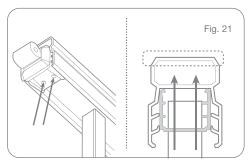


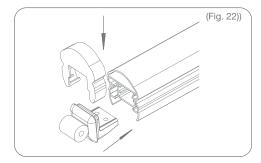












4.

INSTALL MID RAIL SUPPORT:

Attach the mid rail support to beam base using two #10 x 1" flat head screws (Fig. 10 on page 4). Note, the bottom of the mid support has $3\frac{1}{2}$ " to the first hole (Fig. 23).

Locate the approximate desired position for the mid support. Temporarily string a cable through the bottom hole of the top stair post, mid support and bottom stair post. Pull the cable as tight as possible. Maintain tension on the cable and slide the mid support down the cable until it rests on the stair tread without causing the cable to form an angle where it passes through the mid support. (Fig. 24 a/b). Plumb the support and mark where it intersects with the bottom of the top rail. Add ¼" to this mark and cut on that mark (Fig 25). Slide the mid support (Fig 26).

Return the mid support to its desired location. Check for plumb and again use a temporary cable to verify the location of the support does not change the angle of the cable. Push the adapter up to touch the top beam. Using the adapters pre-drilled holes as a guide pre-drill two 1/8" holes from the bottom of top channel up through to the top rail as shown in Fig. 21 on page 6, being careful not to go through the top of top rail. Drive two #10 x 13/4" flat head screws up through the holes to lock the adapter, top beam and top rail together. Mount the adapter to the mid rail support using one #10 x 3/4" pan head screw (Fig. 25). Repeat the above to finish all the supports. Use two #10 x 11/2" wood screws to fasten each base on the stair treads.

5.

INSTALLING CABLES:

Please follow cable instructions included with cables and fittings to complete stair cable installation (Fig. 26).

Install post caps to complete your installation. If cable tension adjustments are needed after installation is complete, a cable gripper tool (# 73050244) is available.

