



Straight Hockey Stick Thru-Bolt Stringer Installation Guide



Tools Needed from the Installation Kit







1/2" to 3/8" Reducer





³/₄" Socket

ThreadLocker



5/16" Hex Bit Socket



5/16" Hanger Bolt Driver

Other Tools and Supplies Not Included in the Installation Kit

- Drill/Hammer Drill
- Impact Driver/Socket Wrench
- Pencil
- Level

• T-Square

T-10 & T-30 Torx Bits

- ³/₈" Wood Drill Bit (Wood Install Only)
- 9/16" Concrete Drill Bit (Concrete Install Only)
- 11/16" Forstner Bit (Wood Install Only)



T-30 Torx Socket

- Wood Glue
- Concrete Epoxy (Concrete Install Only)
- Silicone Sealant



Visit our YouTube channel to watch helpful installation videos youtube.com/viewrail

Things to Know Before You Get Started

- · Read over the provided material prior to the start of your installation
- · Ensure to apply the supplied Threadlocker to all mechanical connections

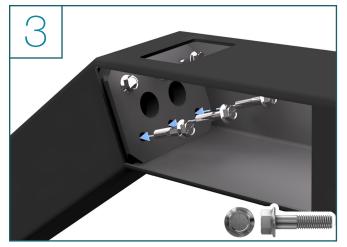




• Locate the stringers and measure them to make sure they match the prints provided to you during the engineering approval process



• Identify and prepare the two halves of the hockey stick

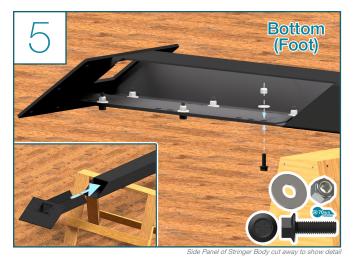


- Using the access hole & the provided 1/2"-13 x 2" bolts, attach the stringer tubes together
- Use a standard wrench at this point to tighten the bolts, but do not over tighten, some adjustability may be needed in following steps



• Identify the Foot insert



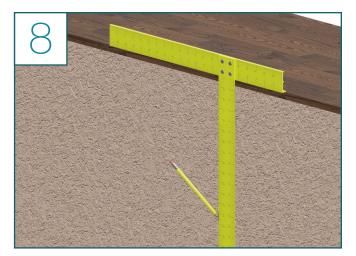


- Slide the Foot insert into the stringer body
- Line up the holes

• Torque to 70 lb-ft

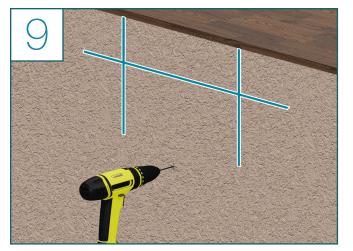
- Use the access hole at the end of the stringer body to fasten the insert.
- Run the (6) 1/2" x 1 1/2" Flange Bolts through the outside of the stringer and then the insert. Reaching inside the stringer, place the (6) 1/2" washers onto each bolt, followed by (6) 1/2" Nylon Lock Nuts
- 6
 - Slide the cover plate over the stringer, paying attention to its orientation
 - The thin section will end up on top of the stringer

- 7 1 2 8 4 5 6 CREPEAT 1 2 8 4 5 6 C
 - Use the ¹/₂" x 2" Flathead Bolts to attach the floor plate to the stringer
 - Torque to 70 lb-ft

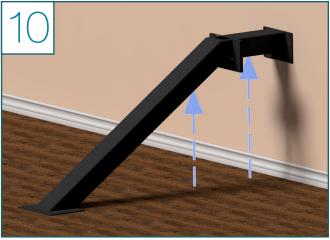


- Use the provided drawing(s) to mark the header plate dimensions
- At this point, mark a predrill location for the slotted hole in your header plate

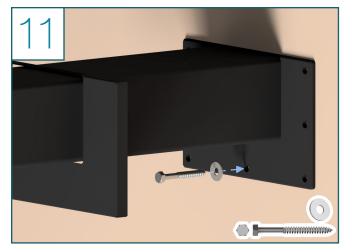




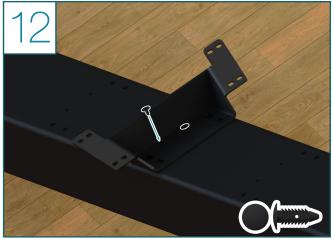
• Predrill with a 3/8" drill bit



• Lift the stringer into place, lining up the hole

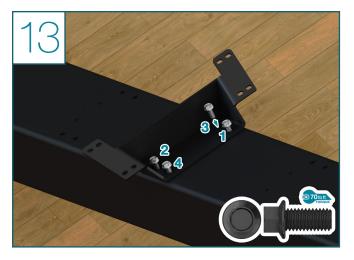


• Fasten the 1/2" x 31/2" Hex Lag through the middle slotted hole in the header plate to hold the stringer in place



- Place all tread brackets on the lower stringer
- Insert Christmas Tree Rivets to hold the tread brackets in place

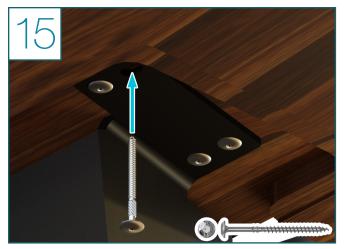




- Thread the 1/2" x 1" flange bolts through the tread bracket into the stringer in the marked order until they are finger tight
- Torque to 70 lb-ft



- Identify one of the middle treads by comparing the labels on the bottom of each to the Wood Install sheet in the front of this packet
- Place a single one of those treads on to one of the tread brackets about half-way up the stringer

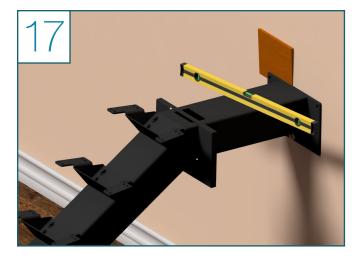


- Using the ⁵/₁₆" x 2¹/₂" RSS Screws, attach the tread to the tread bracket
- During this step, alternate sides of the bracket when fastening screws. This will prevent the tread from pulling unevenly



• Ensure the tread is level on the tread bracket both front to back and left to right





- · If not level left to right, shim the header plate to adjust
- · If not level front to back, shim the footer plate to adjust
- Cut the excess shim away
- Predrill through the header plate holes with a 3/8" drill bit
- At this point, predrill all your header plate holes using a $^{1}\!/_{2}{}^{\scriptscriptstyle \rm II}$ bit



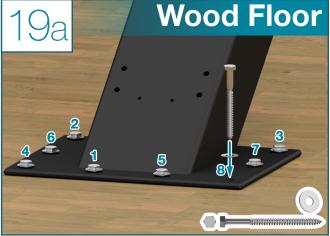
Stringer Wall Mount

• Thread the 1/2" x 8" hex head bolts into place



Stringer Wall Mount

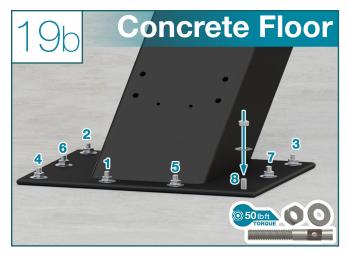
- Refer to the recommendation of the brand of epoxy you are using and predrill the correct sized holes for these ¹/₂" threaded studs
- Apply concrete epoxy in to the holes
- · Insert the threaded studs into each hole
- Allow for the appropriate amount of curing time, for the epoxy, based off of the manufactured recommendations



Stringer Floor Mount

- Predrill your footer plate holes with a 3/8" drill bit
- Thread the 1/2" x 5" head lags into place





Stringer Floor Mount

- Drill 1/2" holes for the concrete wedge anchors
- Insert a concrete wedge anchor into each hole
- Torque to 50 lb-ft



Upper Bracket Cover Installation

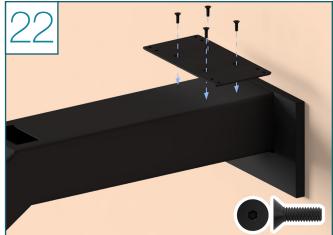
- Apply silicone sealant to the tops of the lags
- Carefully slide the cover over the wall plate

Lower Bracket Cover Installation

- Locate the lower bracket cover
- Apply silicon sealant to the tops of the lags or mounting hardware and install cover

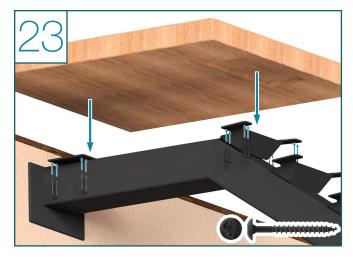


- Using a Torque Wrench, tighten the internal stringer connection bolts, that you installed in Step 3
- Torque to 70 lb-ft
- Do this for all internal stringer connections

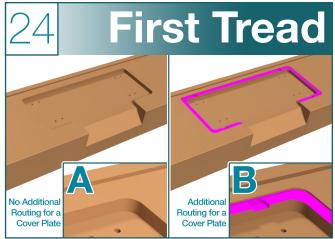


• Using ⁵/₁₆" - 18 x 1" Mount & attach the Landing Plates





- Position the landing making sure that the platform lines up with the tread bracket and landing plates
- Using the ⁵/₁₆" x 2¹/₂" RSS Screws, attach the platform to the landing plates
- During this step, alternate sides of the bracket when fastening screws. This will prevent the tread from pulling unevenly



- Identify the first tread by comparing the labels on the bottom of each to the Wood Install Sheet in the front of this packet
- Compare your first tread to the graphic above
- If your tread looks like Fig. A: Continue to the next step
- If your tread looks like Fig. B: Skip the next 2 steps



THIS STEP IS ONLY FOR FIRST TREADS <u>WITHOUT</u> EXTRA ROUTING (FIG. A)

- Using the $^{5}\!\!\!/_{16}$ x $2^{1}\!\!/_{2}$ hanger bolts, populate the first tread holes
- Mount the first tread on to its tread plate
- The first tread mounts differently to the tread bracket than the rest of the treads



THIS STEP IS ONLY FOR FIRST TREADS <u>WITHOUT</u> EXTRA ROUTING (FIG. A)

• Using a nut, tighten the tread to the tread bracket

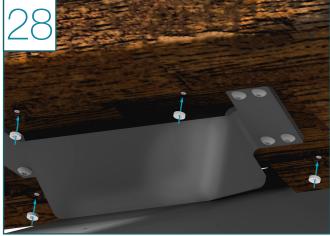




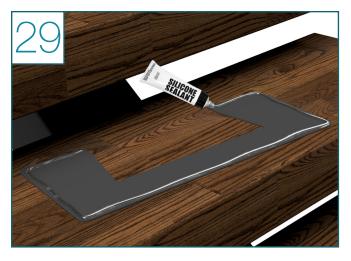
• Repeat Steps 14-16 to fasten the remaining treads, one at a time, onto the tread brackets

First Tread (Step 24 Fig B)

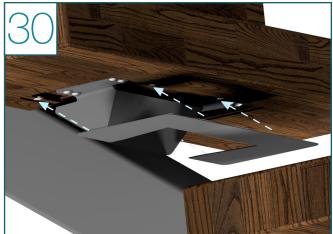
- If your tread looks like **Fig B** in Step 24, it will install similar to the rest of the treads
- Due to the space constraint that will exist between the bottom of the first tread and the flooring, you will need to use a socket wrench & the provided Torx socket to drive the (4) ⁵/₁₆" x 2¹/₂" RSS screws



- Once your treads are in place, locate the tread bracket cover magnets and place all 4 magnets on the head of the magnet screws which are already factory installed (LED Treads will have 8 magnets)
 Note: The magnets are strong enough to stick to the head of the screw and hold the tread bracket cover while the silicon (next step) dries.
- The first tread will not typically receive a bracket cover and will not have the additional routing



- Next find your tread bracket covers and lay them out.
- Locate and prep your silicone tube
- Run a bead of silicone around the edge of the tread cover, or the edge of the routed section on the tread, whichever you prefer



- Set the bracket cover in place. The magnets in the treads will hold the cover tightly, and the silicone will prevent rattling and create a tight fit
- Wipe off any excess silicone that might squeeze out

Congratulations! You're done with this section.

We'd love to see your work! Snap a few pics with your phone and send them to pictures@viewrail.com. Thanks for choosing Viewrail. Enjoy your new installation!

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