Look for this sticker on hardware bags

FLIGHT

VIEWRAIL

Straight Thru-Bolt Stringer Installation Guide

Tools Needed from the Installation Kit

Torque Wrench

1/2" to 3/8" Reducer

3/4" Socket

5/16" Hex Bit Socket

5/16" Hanger Bolt Driver

T-10 & T-30 Torx Bits

ThreadLocker

T-30 Torx Socket

Other Tools and Supplies Not Included in the Installation Kit

- Drill/Hammer Drill
- Impact Driver/Socket Wrench
- Pencil
- Level
- T-Square
- 3/8" Wood Drill Bit *(Wood Install Only)*
- 9/16" Concrete Drill Bit *(Concrete Install Only)*
- 11/16" Forstner Bit *(Wood Install Only)*
- Wood Glue
- Concrete Epoxy *(Concrete Install Only)*
- Silicone Sealant

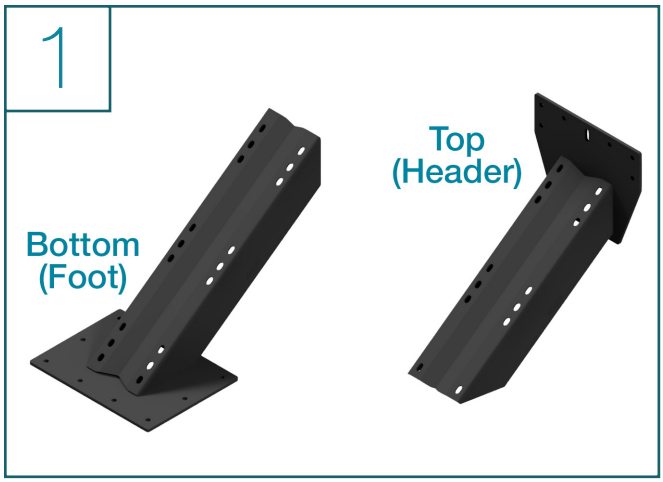
Things to Know Before You Get Started

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

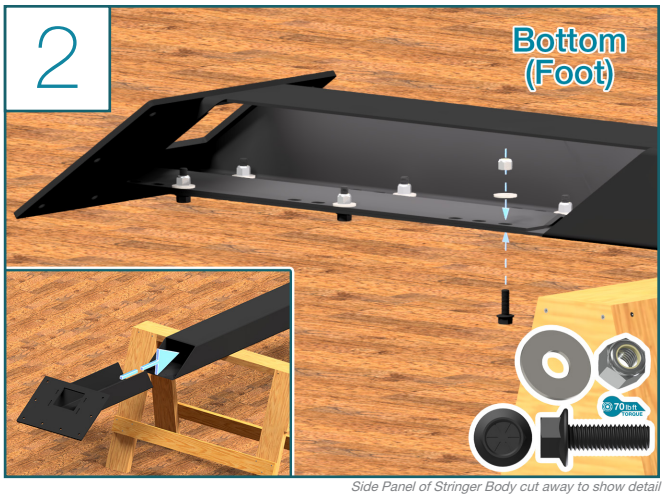
YouTube

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

Straight Thru-Bolt Stringer Installation Steps

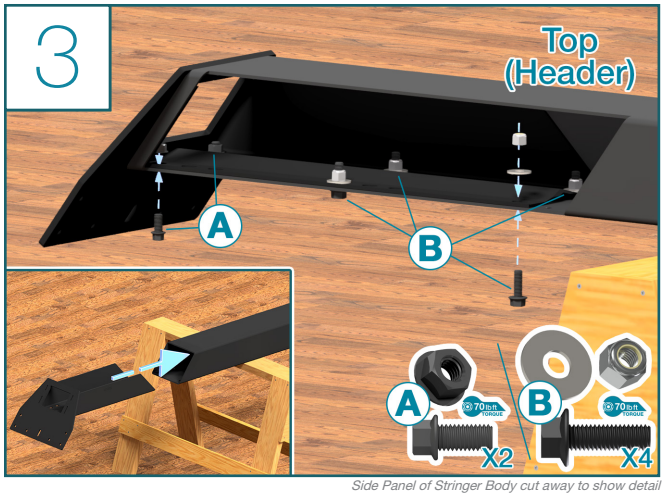


- Identify the top and bottom inserts



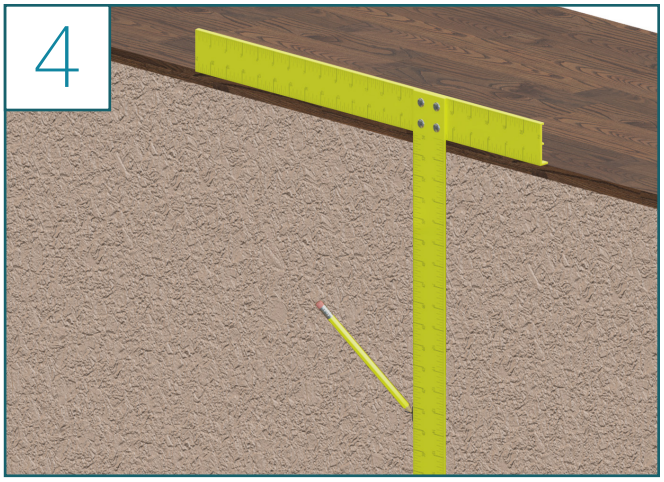
Side Panel of Stringer Body cut away to show detail

- Slide the Foot insert into the stringer body
- Line up the holes
- Use the access hole at the end of the stringer body to fasten the insert.
- Run the (6) ½" x 1½" Flange Bolts through the outside of the stringer and then the insert. Reaching inside the stringer, place the (6) ½" washers onto each bolt, followed by (6) ½" Nylon Lock Nuts
- Torque to 70 lb-ft



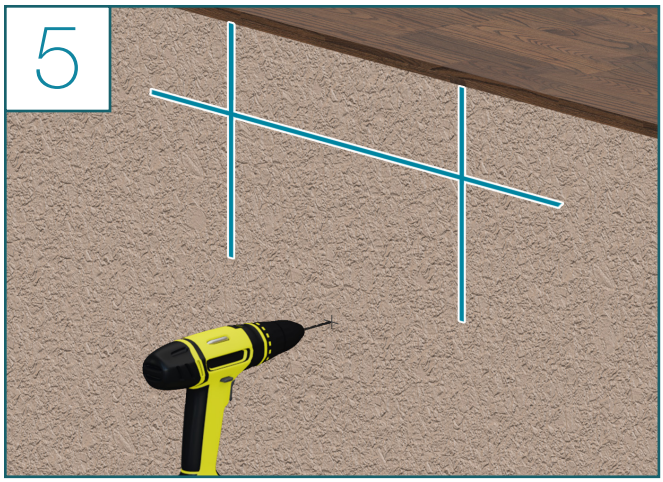
Side Panel of Stringer Body cut away to show detail

- Slide the Header insert into the stringer body
- Use the access hole at the end of the stringer body, insert the (2) ½" x 1" Flange Bolts though from the outside, into the (2) ½" Flange Nuts (A)
- Run the (4) ½" x 1½" Flange Bolts through the outside of the stringer and then the insert. Reaching inside the stringer, place the (4) ½" washers onto each bolt, followed by (4) ½" Nylon Lock Nuts (B)
- Torque all bolts to 70 lb-ft

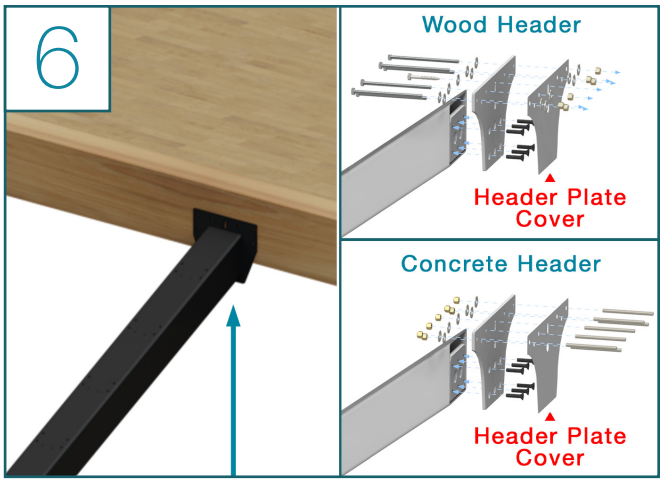


- Use the provided drawing(s) to mark the header plate dimensions
- At this point, mark a predrill location for the slotted hole in your header plate

Straight Thru-Bolt Stringer Installation Steps (Continued)

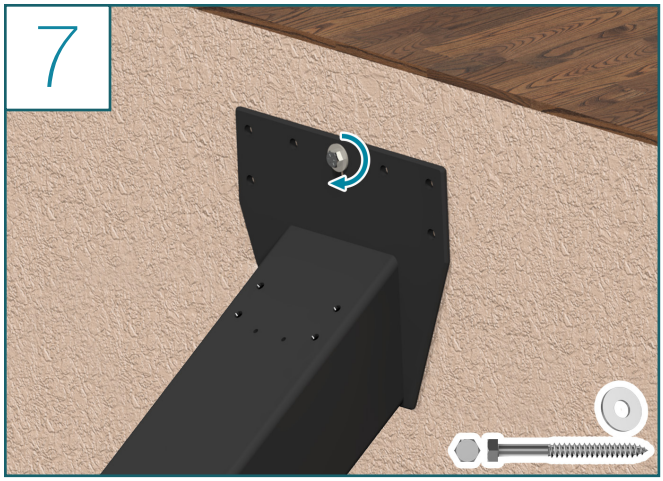


- Predrill with a 3/8" drill bit

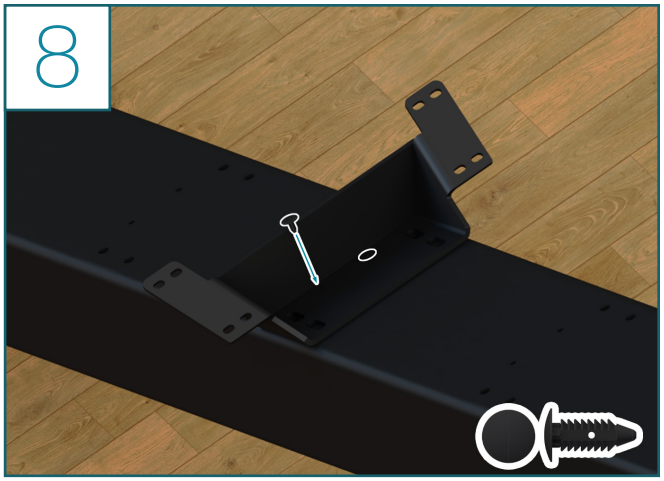


- Lift the stringer into place, lining up the hole
- We recommend using either a pulley system or a Come Along Winch and brace material to hold the stringer in place while fastening

Note: Make sure to place the Header Plate Covers in between the Header Plate and the mounting surface

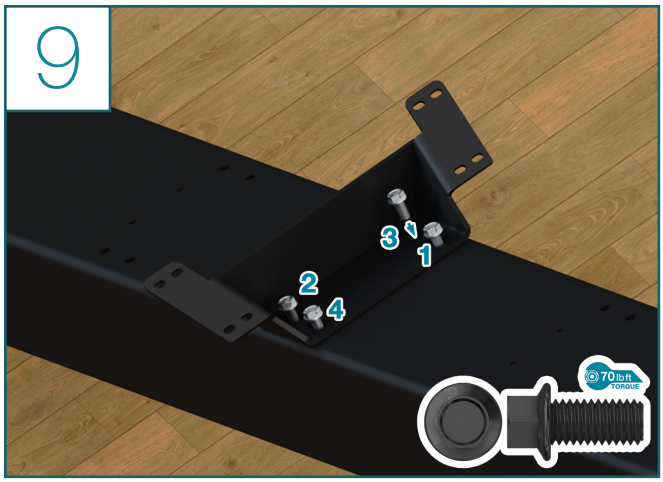


- Fasten the 1/2" x 3 1/2" Hex Lag through the middle slotted hole in the header plate to hold the stringer in place



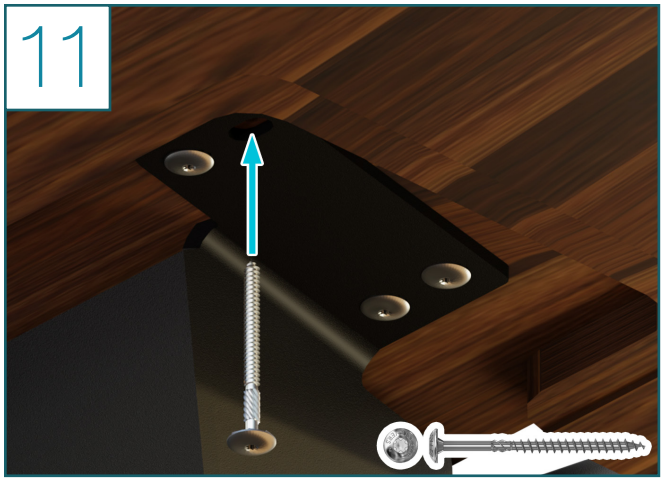
- Place all tread brackets on the stringer
- Insert Christmas Tree Rivets to hold the tread brackets in place

Straight Thru-Bolt Stringer Installation Steps (Continued)



- Thread the 1/2" x 1" flange bolts through the tread bracket and into the stringer in the marked order, so 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

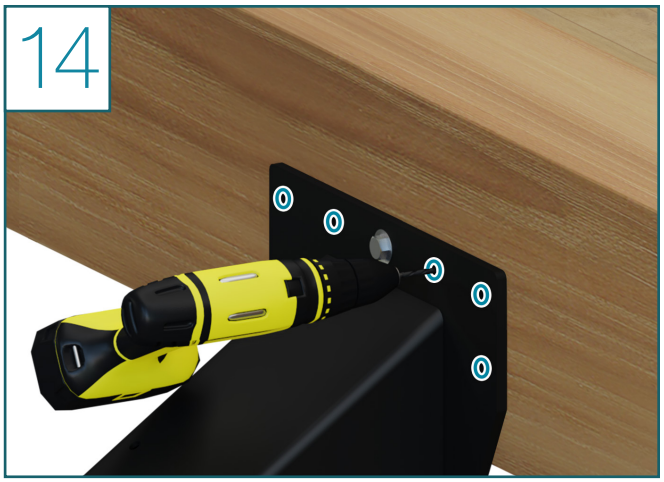


- Using the 5/16" x 2 1/2" RSS Screws, attach the tread to the tread bracket
- During this step, alternate sides of the bracket when fastening screws. This will prevent the tread from pulling unevenly

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

Straight Thru-Bolt Stringer Installation Steps (Continued)

- 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



- At this point you can predrill all your header plate holes

Through Bolt

- Predrill utilizing a ½" drill bit

Lag Bolt

- Predrill utilizing a ⅜" drill bit

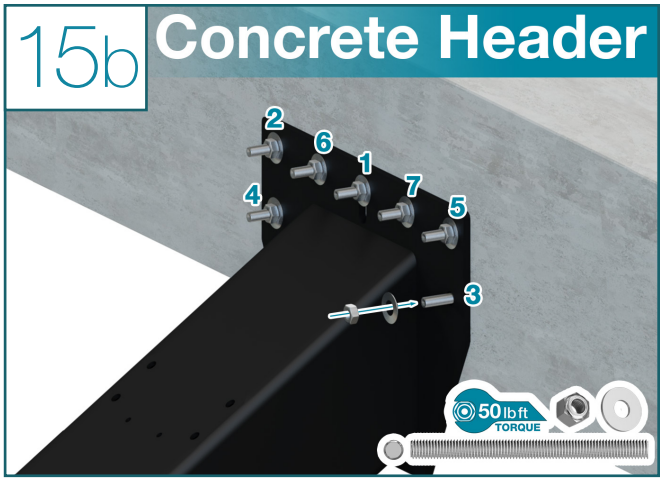
Upper Stringer Header Mount (2 mounting styles)

Through Bolt

- Thread the ½" x 8" hex head bolts into place, so they are finger tight
- Torque to 70 lb-ft

Lag Bolt

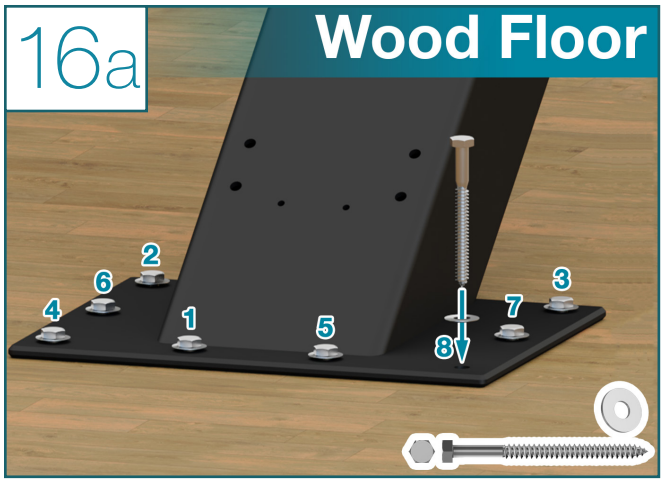
- Thread the ½" x 5" head lags into place



Upper Stringer Header Mount

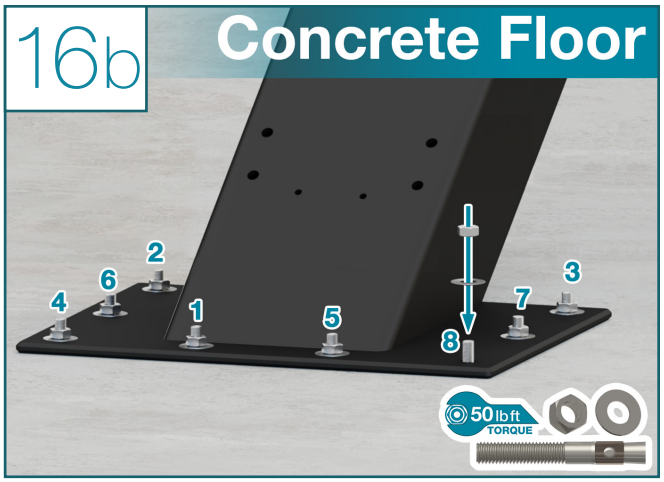
- Refer to the recommendation of the brand of epoxy you are using and predrill the correct sized holes for these ½" threaded studs
- Apply concrete epoxy in to the holes
- Insert the threaded studs into each hole
- Torque to 50 lb-ft

Straight Thru-Bolt Stringer Installation Steps (Continued)



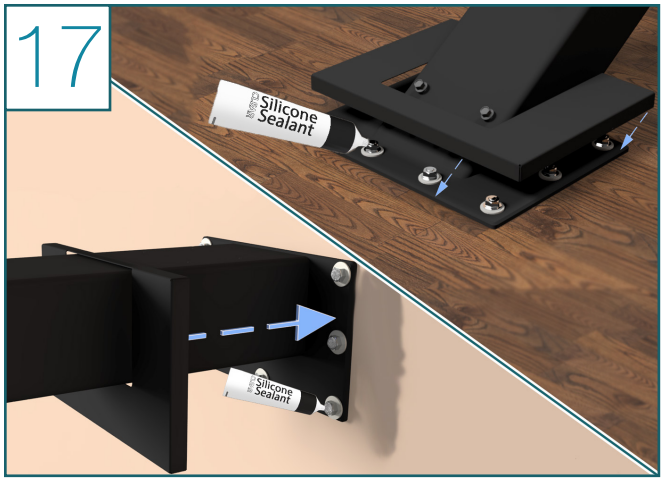
Lower Stringer Floor Mount

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



Lower 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

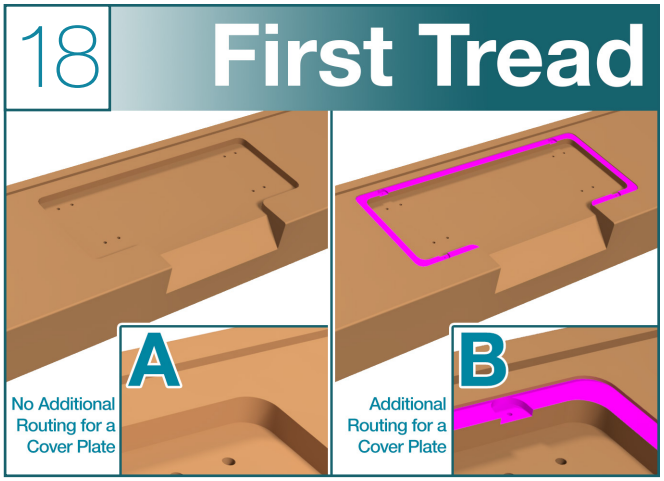


Upper Bracket Cover Installation

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

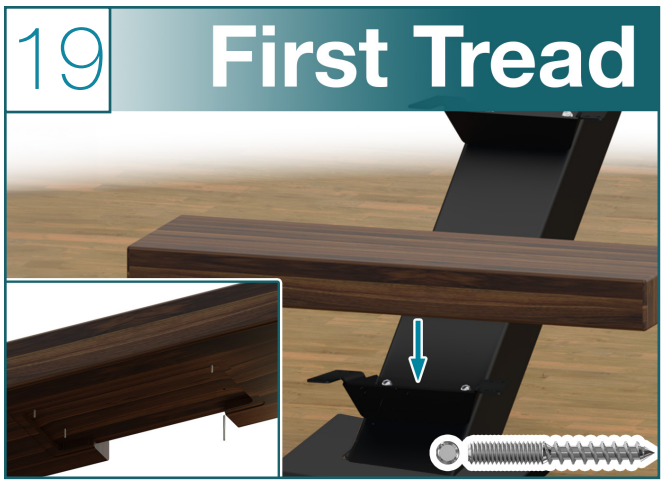
Lower Bracket Cover Installation

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



- 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

Straight Thru-Bolt Stringer Installation Steps (Continued)



THIS STEP IS ONLY FOR FIRST TREADS WITHOUT 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

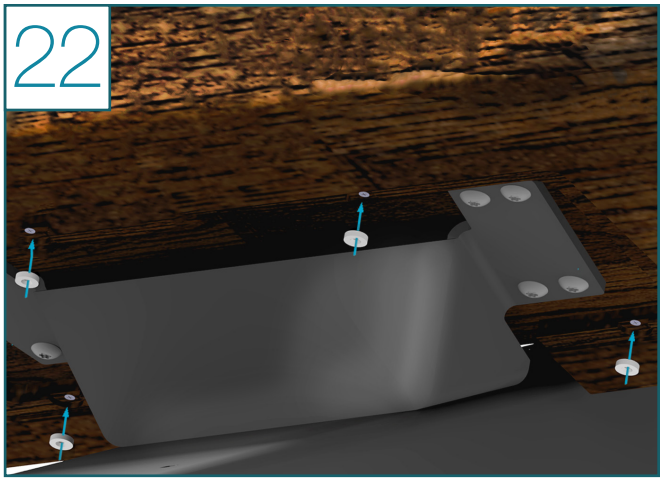
THIS STEP IS ONLY FOR FIRST TREADS WITHOUT EXTRA ROUTING (FIG. A)

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

- Repeat Steps 10-12 to fasten the remaining treads, one at a time, onto the tread brackets

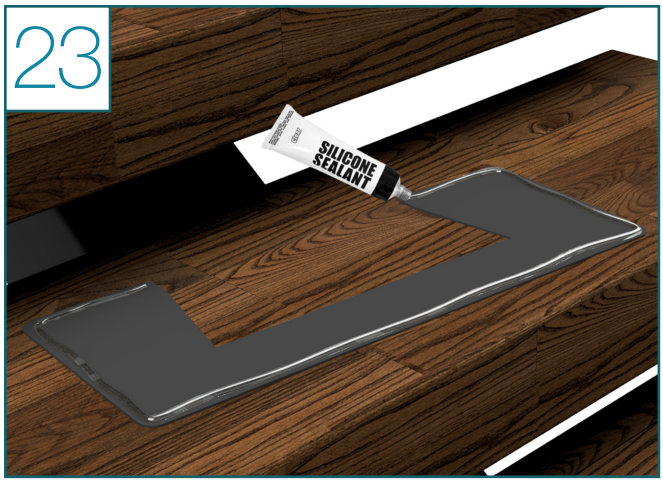
First Tread **(Step 18 Fig B)**

- If your tread looks like **Fig B** in Step 18, 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 2 1/2" RSS screws

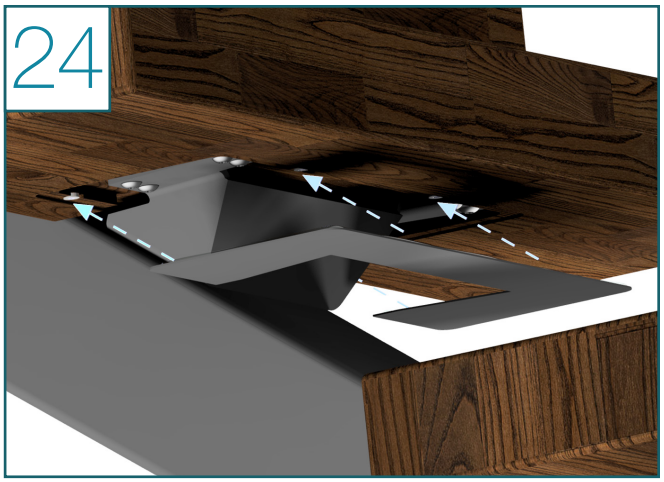


- Once your treads are in place, locate the tread bracket cover magnets and place all 4 magnets on the head of the magnet screws which are already factory installed (LED Treads will have 8 magnets)
  Note: The magnets are strong enough to stick to the head of the screw and hold the tread bracket cover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

Straight Thru-Bolt Stringer Installation Steps (Continued)



- 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!