



Straight Stringer Installation Guide

Look for this sticker
on hardware bags

FLIGHT



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

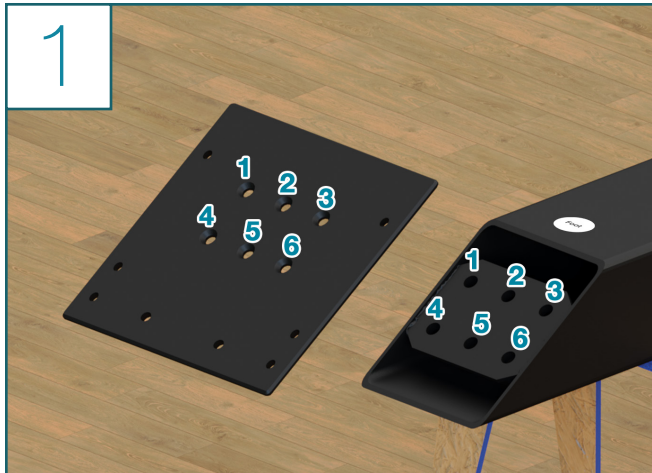
- Drill/Hammer Drill
- Impact Driver/Socket Wrench
- Pencil
- Level
- T-Square
- 3/8" Wood Drill Bit (*Wood Install Only*)
- 9/16" Concrete Drill Bit (*Concrete Install Only*)
- 11/16" Forstner Bit (*Wood Install Only*)
- Wood Glue
- Concrete Epoxy (*Concrete Install Only*)
- Silicone Sealant

Things to Know Before You Get Started

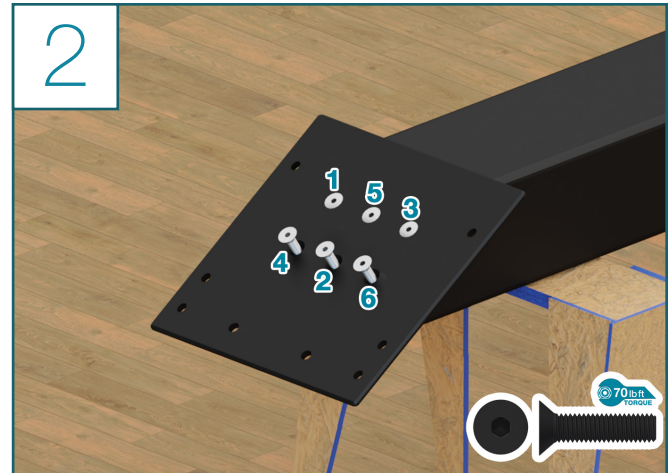
- Read over the provided material prior to the start of your installation
- Ensure to apply the supplied Threadlocker to all mechanical connections



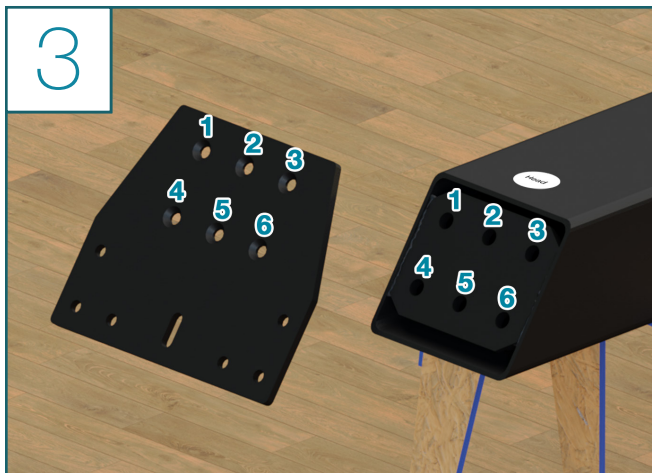
Straight Stringer Installation Steps



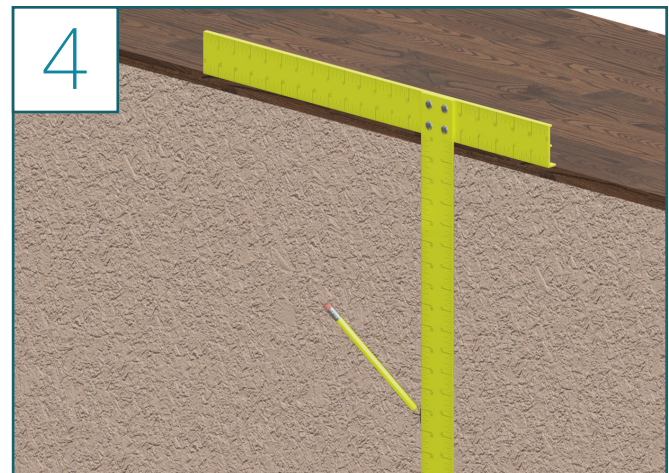
- Noting the “Foot” sticker, match the beveled Foot Plate holes to the Stringer holes



- Use the 1/2" x 2" Flathead Bolts to attach the floor plate to the stringer
- Torque to 70 lb-ft

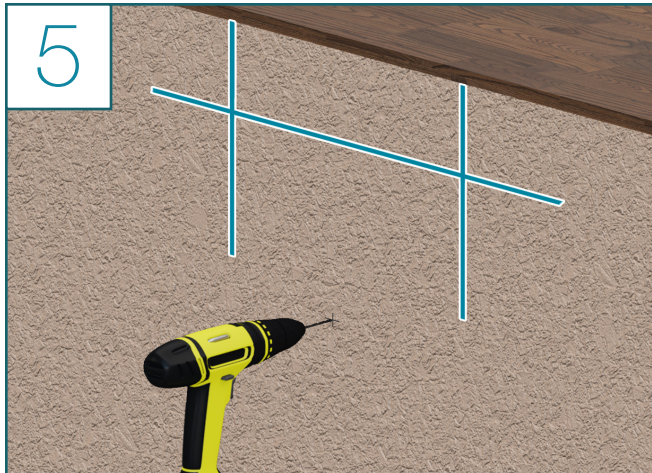


- Noting the “Head” sticker, match the beveled Header Plate holes to the Stringer holes
- Repeat Step 2 for the Header Plate Bolts

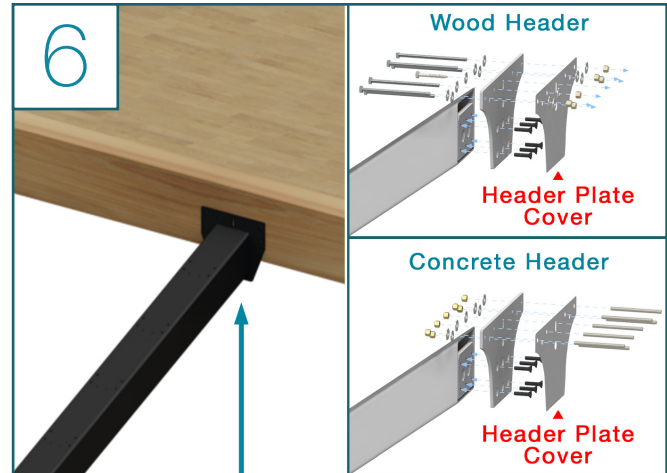


- Use the provided drawing(s) to mark the header plate dimensions
- At this point, mark a predrill location for the slotted hole in your header plate

Straight Stringer Installation Steps (Continued)



- Predrill with a $\frac{3}{8}$ " drill bit

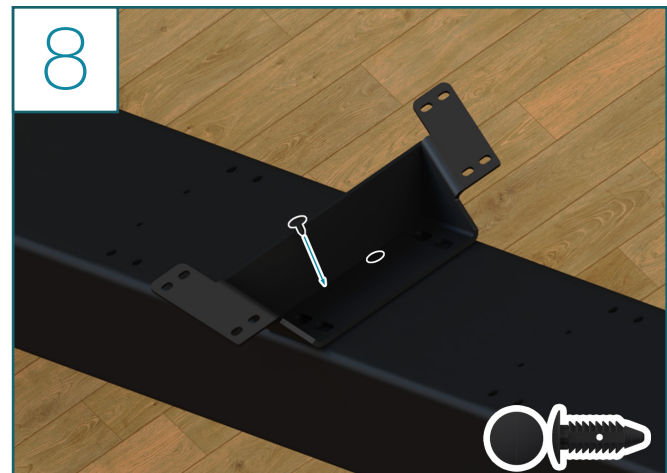


- Lift the stringer into place, lining up the hole
- We recommend using either a pulley system or a Come Along Winch and brace material to hold the stringer in place while fastening

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

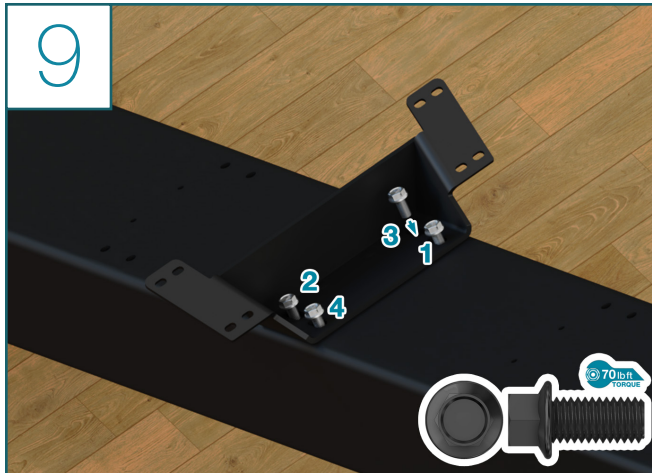


- Fasten the $\frac{1}{2}$ " x $3\frac{1}{2}$ " Hex Lag through the middle slotted hole in the header plate to hold the stringer in place



- Place all tread brackets on the stringer
- Insert locator pins to hold the tread brackets in place

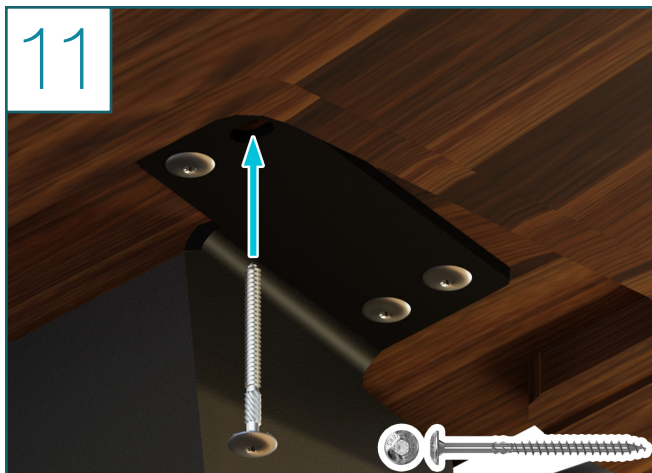
Straight Stringer Installation Steps (Continued)



- Thread the $\frac{1}{2}$ " 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 $\frac{5}{16}$ " x $2\frac{1}{2}$ " 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

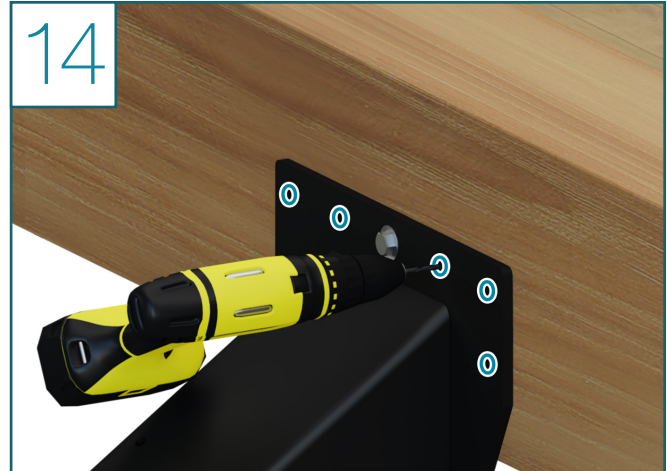


- Ensure the tread is level on the tread bracket both front to back and left to right

Straight 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 1/2" drill bit

Lag Bolt

- Predrill utilizing a 3/8" drill bit



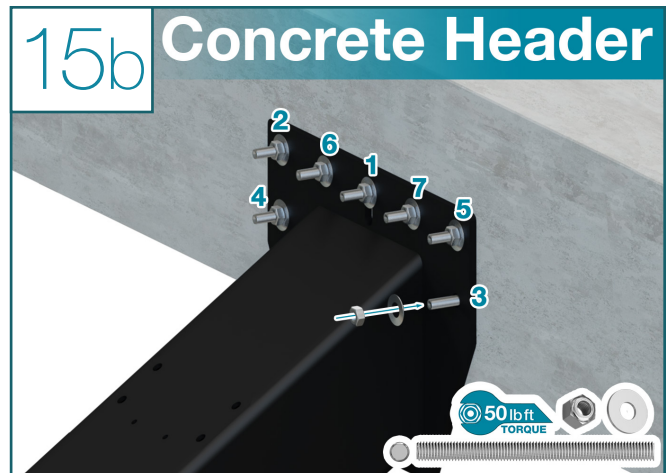
Upper Stringer Header Mount (2 mounting styles)

Through Bolt

- Thread the 1/2" x 8" hex head bolts into place, so they are finger tight
- Torque to 70 lb-ft

Lag Bolt

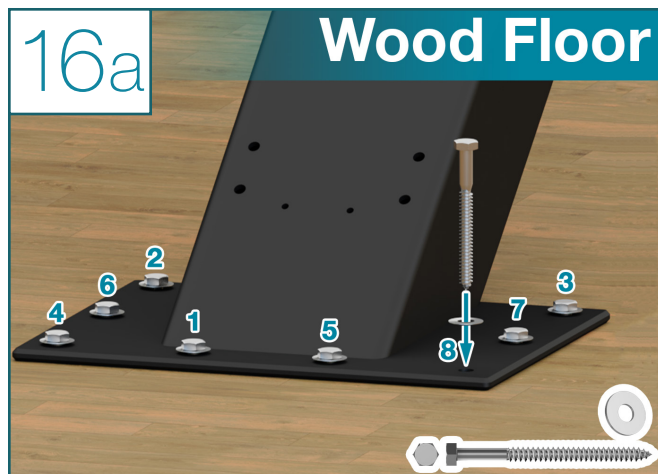
- Thread the 1/2" x 5" head lags into place



Upper Stringer Header Mount

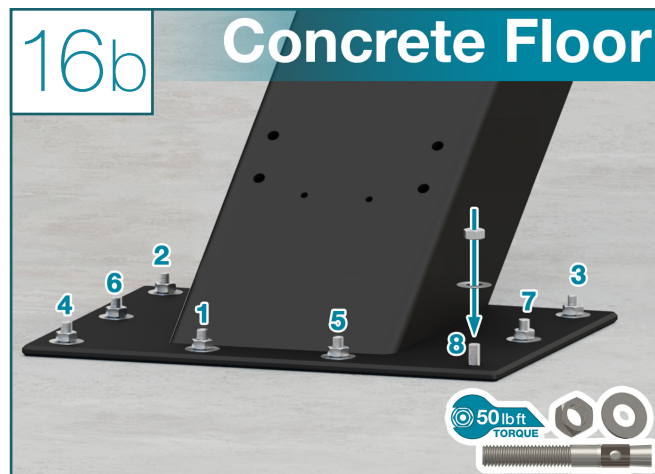
- Refer to the recommendation of the brand of epoxy you are using and predrill the correct sized holes for these 1/2" threaded studs
- Apply concrete epoxy in to the holes
- Insert the threaded studs into each hole
- Torque to 50 lb-ft

Straight Stringer Installation Steps (Continued)



Lower Stringer Floor Mount

- Pre-drill your footer plate holes with a $\frac{3}{8}$ " drill bit
- Thread the $\frac{1}{2}$ " x 5" head lags into place



Lower Stringer Floor Mount

- Drill $\frac{9}{16}$ " holes for the concrete wedge anchors
- Insert a concrete wedge anchor into each hole
- Torque to 50 lb-ft

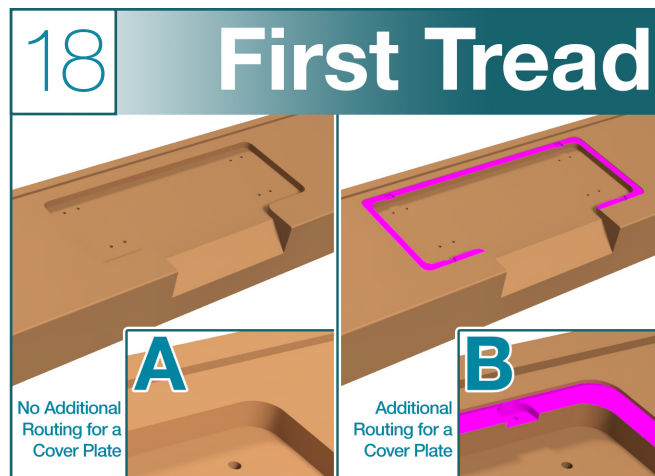


Upper Bracket Cover Installation

- 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 Stringer Installation Steps (Continued)

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

- Using the $\frac{5}{16}$ " x $2\frac{1}{2}$ " 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)**

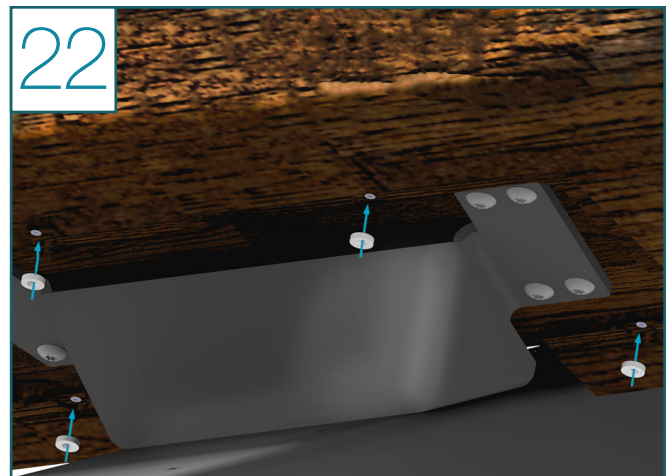
- Using a nut, tighten the tread to the tread bracket



- 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) $\frac{5}{16}$ " x $2\frac{1}{2}$ " RSS screws

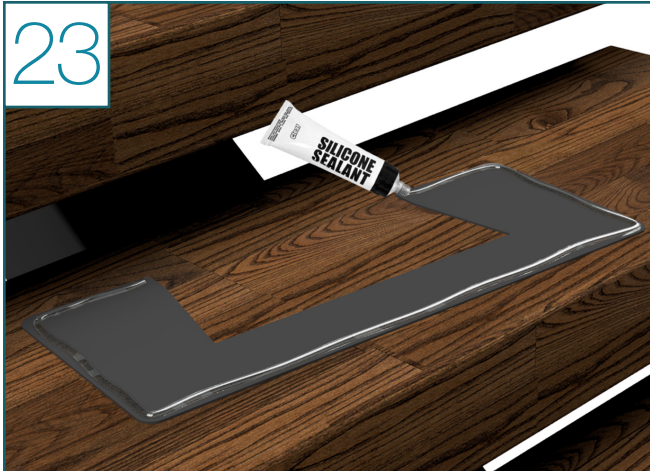


- Once your treads are in place, locate the tread bracket cover magnets and place all 4 magnets on the head of the magnet screws which are already factory installed (LED Treads will have 8 magnets)

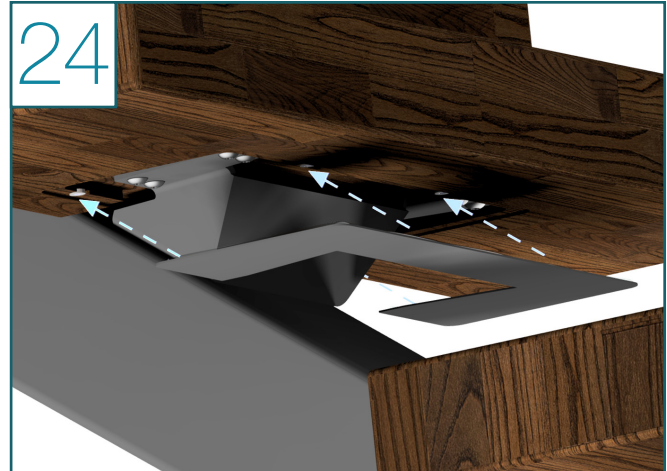
Note: The magnets are strong enough to stick to the head of the screw and hold the tread bracket cover while the silicon (next step) dries.

- The first tread will not typically receive a bracket cover and will not have the additional routing

Straight 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!