



Tools Needed from the Installation Kit



Torque Wrench



1/2" to 3/8" Reducer



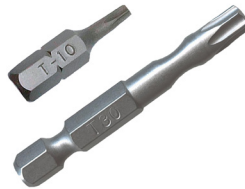
3/4" Socket



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

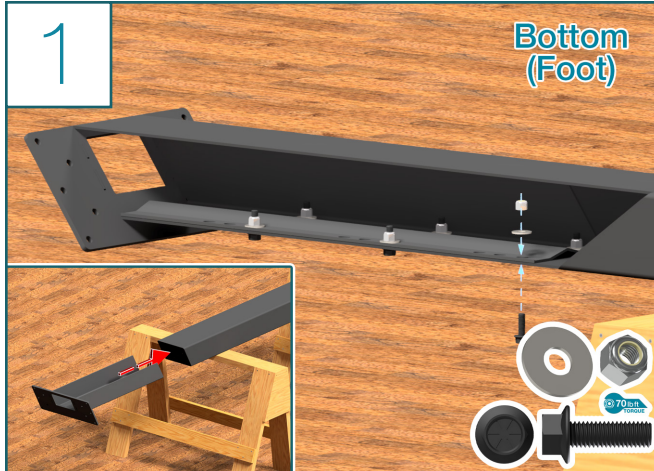
- Drill/Hammer Drill
- Impact Driver/Socket Wrench
- Pencil
- Level
- T-Square
- 3/8" Wood Drill Bit (*Wood Install Only*)
- 9/16" Concrete Drill Bit (*Concrete Install Only*)
- 11/16" Forstner Bit (*Wood Install Only*)
- Wood Glue
- Concrete Epoxy (*Concrete Install Only*)
- Silicone Sealant

Things to Know Before You Get Started

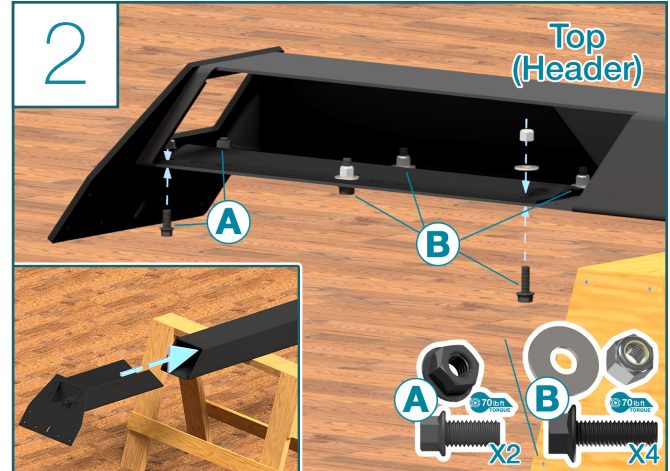
- Read over the provided material prior to the start of your installation
- Ensure to apply the supplied Threadlocker to all mechanical connections



Straight Wall to Wall Thru-Bolt Stringer Installation Steps



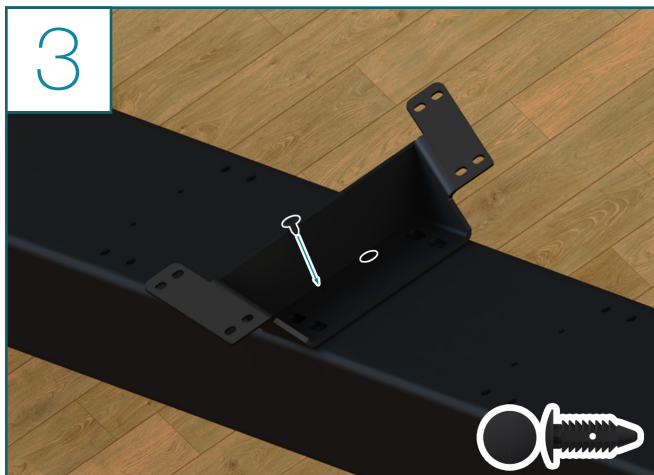
Side Panel of Stringer Body cut away to show detail



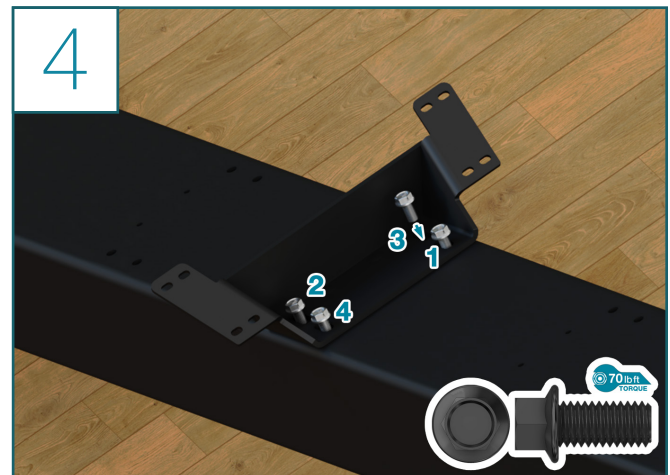
Side Panel of Stringer Body cut away to show detail

- Identify the top and bottom inserts
- 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) 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
- Torque to 70 lb-ft

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

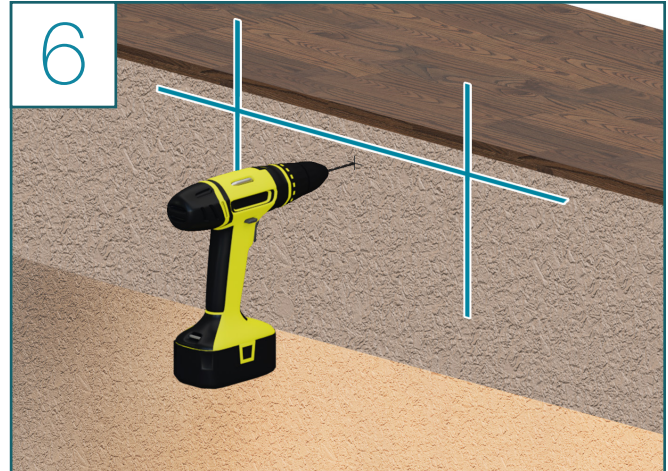
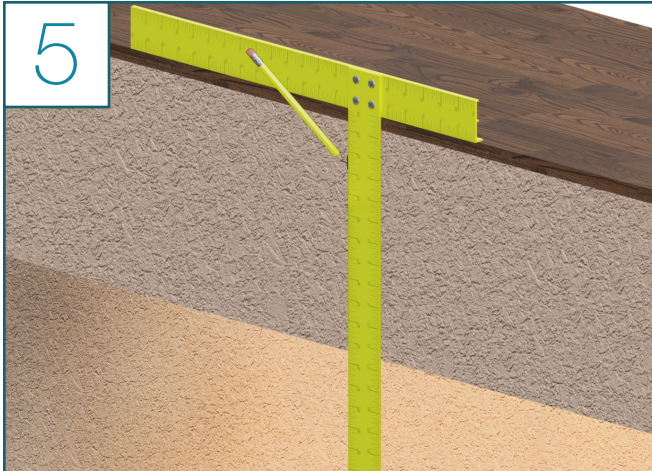


- Place all tread brackets on the stringer
- Insert locator pins to hold the tread brackets in place



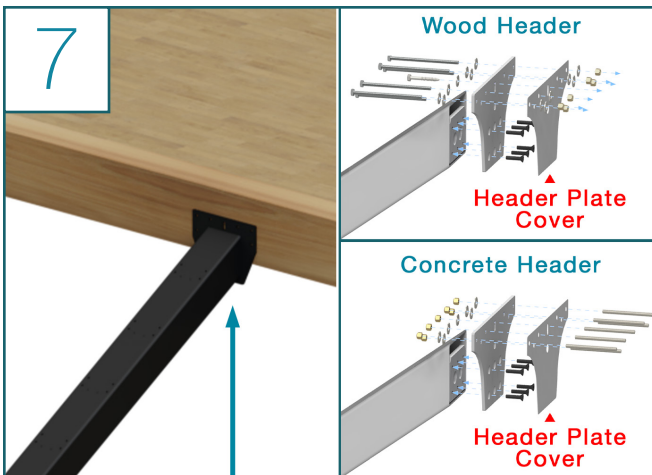
- Thread the 1/2" x 1" flange bolts through the tread bracket and into the stringer in the marked order, so they are finger tight
- Torque to 70 lb-ft

Straight Wall to Wall Thru-Bolt Stringer Installation Steps (Continued)



- 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

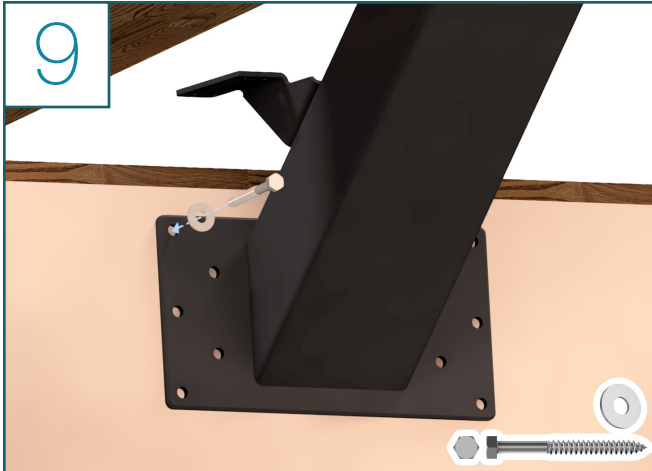


- Lift the stringer into place, lining up the hole
- We recommend using either a pulley system or a Come Along Winch and brace material to hold the stringer in place while fastening

- 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

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

Straight Wall to Wall Thru-Bolt Stringer Installation Steps (Continued)



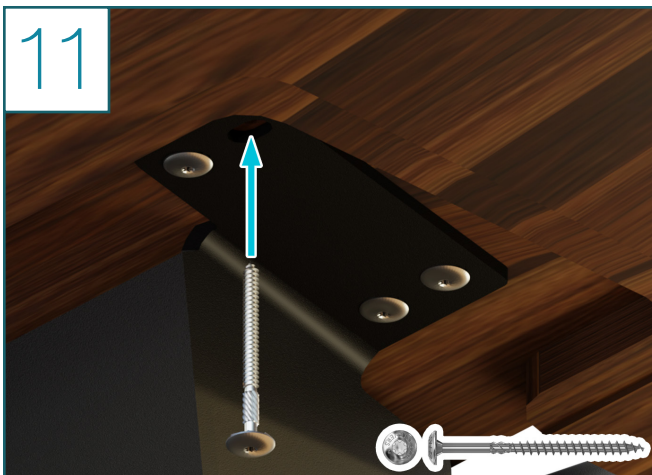
- Fasten the 1/2" x 3 1/2" Hex Lag through one of the upper corner holes in the foot plate to hold the stringer in place



It is important to ensure the single lag is very secure. Do not attempt to walk on the stringer with so few connections. This is just to allow for adjustments to be made to the stringer when you get to Step 12.



- 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

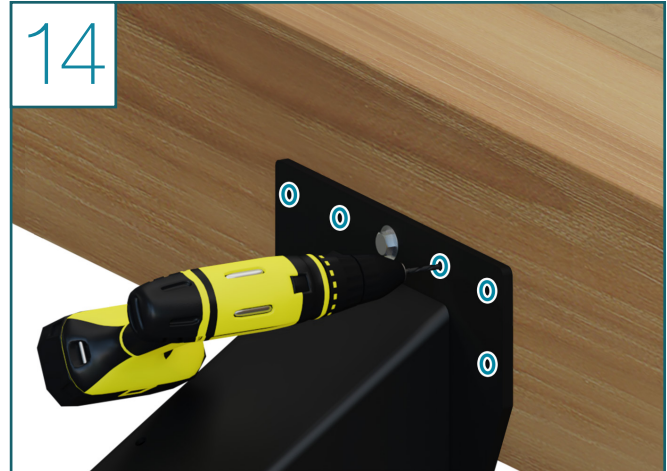


- Ensure the tread is level on the tread bracket both front to back and left to right

Straight Wall to Wall 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 1/2" drill bit
- Lag Bolt**
- Predrill utilizing a 3/8" drill bit



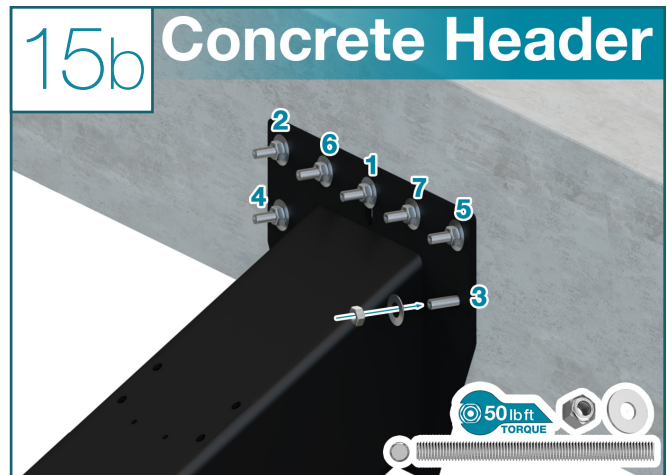
Stringer Header Mount (2 mounting styles)

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

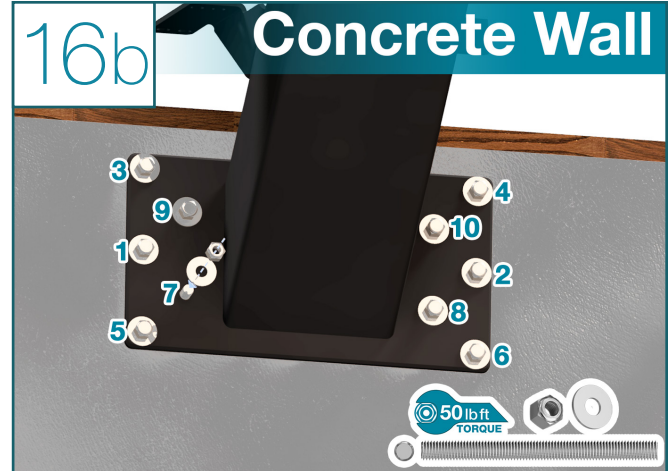
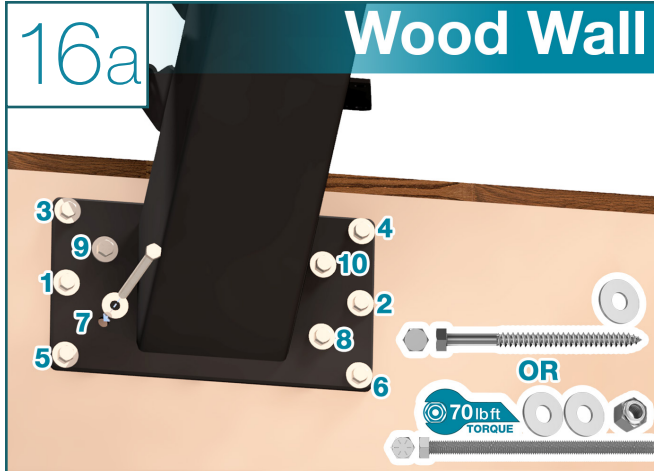
- Thread the 1/2" x 5" head lags into place



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 Wall to Wall Thru-Bolt Stringer Installation Steps (Continued)



Stringer Footer Mount

Through Bolt

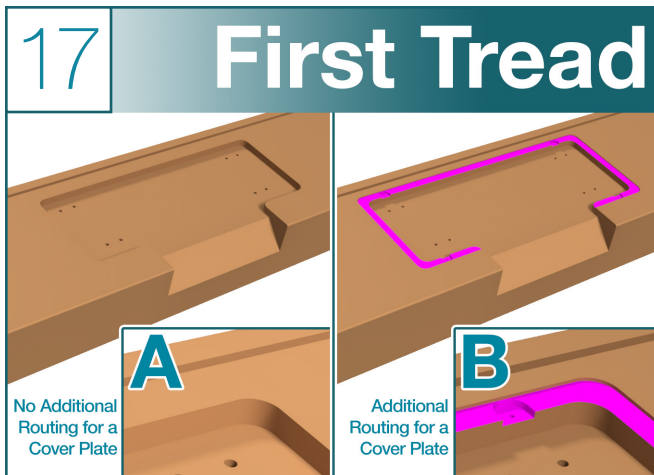
- Thread the 1/2" x 8" hex head bolts into place, so they are finger tight
- Torque to 70 lb-ft

Lag Bolt

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

Stringer Footer 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



- 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 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

Straight Wall to Wall Thru-Bolt Stringer Installation Steps (Continued)



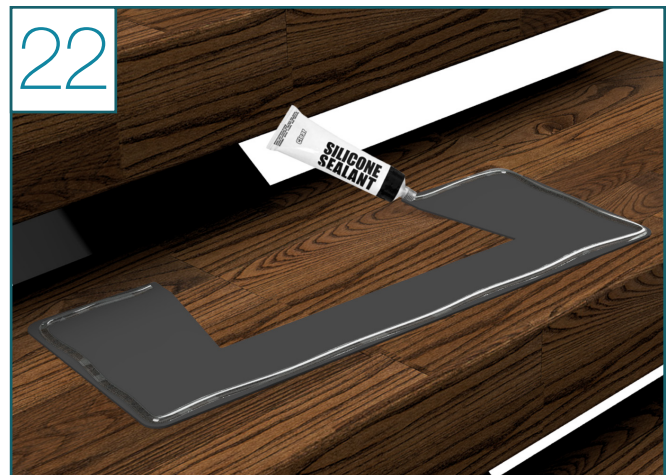
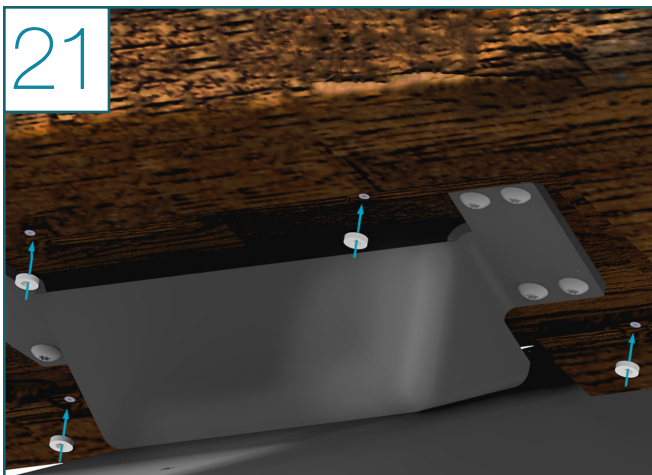
THIS STEP IS ONLY FOR FIRST TREADS WITHOUT EXTRA ROUTING (FIG. A)

- 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 17 Fig B)

- If your tread looks like **Fig B** in Step 17, 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



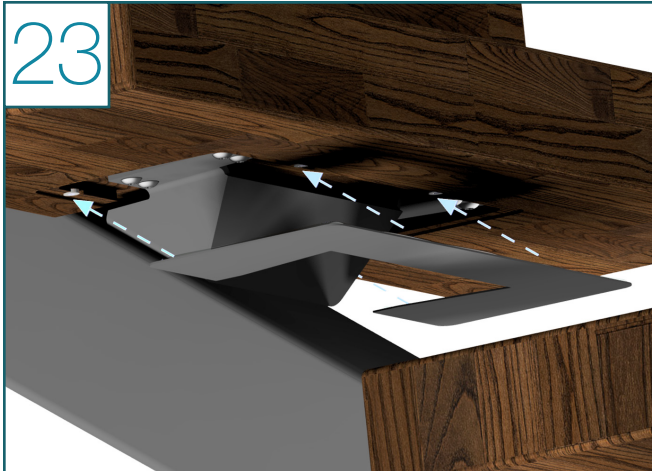
- Once your treads are in place, locate the tread bracket cover magnets and place all 4 magnets on the head of the magnet screws which are already factory (LED Treads will have 8 magnets)

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

Straight Wall to Wall Thru-Bolt Stringer Installation Steps (Continued)



- 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!