BRACKET HARDWARE - STAIR APPLICATIONS (INCLUDING STAIR SWIVEL BRACKETS, STAIR CROSSOVER BRACKET, AND COMPOUND SWIVEL BRACKETS)
TREX SIGNATURE

FIXED BRACKET - STAIR HARDWARE

AA. Bottom Stair Bracket and Cover – Lower Rail
BB. Top Stair Bracket and Cover – Lower Rail
CC. Fastener Pack
DD. Bottom Stair Bracket and Cover – Upper Rail
EE. Top Stair Bracket and Cover – Upper Rail

SWIVEL BRACKET - STAIR HARDWARE

FF. Swivel Top Rail Bracket and Cover – Stair
GG. Swivel Bottom Rail Bracket and Cover – Stair
HH. Fastener Covers
II. Fastener Pack
TREX SIGNATURE (formerly Reveal) STAIR RAILING
Installation Instructions

BRACKET HARDWARE - STAIR APPLICATIONS (INCLUDING STAIR SWIVEL BRACKETS, STAIR CROSSOVER BRACKET, AND COMPOUND SWIVEL BRACKETS) CONTINUED

TREX SIGNATURE

COMPOUND SWIVEL BRACKET - STAIR HARDWARE

JJ. Compound Swivel Top Rail Bracket and Cover – Stair
KK. Compound Swivel Bottom Rail Bracket and Cover – Stair
LL. Fastener Covers
MM. Fastener Pack

SWIVEL CROSSOVER BRACKET KIT - STAIR HARDWARE

NN. Swivel Crossover Bracket – Stair
OO. Post-to-Bracket Fasteners
HOW TO INSTALL SIGNATURE STAIR POSTS AND STAIR RAILING
TREX SIGNATURE

IMPORTANT NOTES:
» SIGNATURE POSTS CANNOT BE USED WITH SIGNATURE TRADITIONAL OR SIGNATURE COCKTAIL STAIR DESIGNS, ONLY PRESSURE TREATED POST/POST SLEEVES CAN BE USED. REFER TO DETAILED INSTRUCTIONS FOR MORE INFORMATION.
» ALL SIGNATURE STAIR INSTALLATIONS REQUIRE THE USE OF 53" (134.6 CM) STAIR POST, MEASURED AND CUT TO APPROPRIATE LENGTH IF REQUIRED.
» IF CROSSOVER STAIR POST IS REQUIRED, USE STAIR POST (AGAIN CUT TO APPROPRIATE LENGTH IF REQUIRED) AND USE SWIVEL CROSSOVER BRACKET.
» SIGNATURE STAIR FIXED BRACKETS ARE DESIGNED TO WORK ONLY WITH STAIR SLOPES OF 32°-37°.
» FOR SMALLER (LESS THAN 32°) OR LARGER ANGLES (GREATER THAN 37°) USE THE SIGNATURE STAIR SWIVEL BRACKETS.
» SIGNATURE COMPOUND SWIVEL STAIR BRACKETS ARE DESIGNED FOR FLARED STAIR DESIGNS.
» IF INSTALLING STAIR RAILINGS AT EXACT SPAN LENGTHS OF 6’ (1.8 M) OR 8’ (2.4 M) AND USING POST TO POST CONFIGURATION, THE BOTTOM STAIR RAIL WILL NOT NEED TO BE CUT*, BUT THE TOP STAIR RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
» IF INSTALLING STAIR RAILINGS AT EXACT SPAN LENGTHS OF 6’ (1.8 M) OR 8’ (2.4 M), AND USING CROSSOVER POST CONFIGURATION (SPANS FROM ONE CROSSOVER POST TO ANOTHER CROSSOVER POST), BOTH THE BOTTOM AND TOP STAIR RAILS WILL NOT NEED TO BE CUT* IF THE ANGLE IS APPROXIMATELY 34°.
» AT ALL FINAL END POST CONFIGURATIONS, TOP STAIR RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
» FOR ODD SPAN LENGTHS, BOTH BOTTOM AND TOP STAIR RAILS WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT. ALSO ENSURE THAT BALUSTERS ARE SPACED WITH EQUAL DISTANCE ON EACH SIDE OF THE POST.

* Rails that do not require cutting must be oriented in the correct direction to ensure balusters are spaced properly when installed in brackets. On both bottom and top stair railings, baluster hole closest to the end of the each stair rail is to be installed at the top of the stair section. Ensure that both bottom and top rails are correct and balusters line up vertically before installing.

Installing Standard Signature Stair Posts, Signature Stair Crossover Posts, or Pressure-treated Post, Post Sleeves and Skirts

1. Make sure 53” (135.6 cm) posts are used for all stair posts.

2. If Signature stair posts are used, install at nose of stair tread directly under required blocking. See Signature horizontal post instructions on pages 5-7 for details.

3. If pressure-treated post/post sleeves are used, posts are to be installed to the inside of the last stair stringer (rails must be over decking surface). See pressure-treated post instructions on pages 5-7 for details.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES

TREX SIGNATURE

NOTES:
» All Signature fixed stair brackets work ONLY with stair slopes of 32°-37°.
» Illustrations shown are representations when using Signature post, but same rules apply if using pressure-treated posts and post sleeves.
» Use a clamp to help hold stair brackets in place while fastening with screws.
» IMPORTANT NOTE: BEFORE ATTACHING ANY UPPER BRACKETS MAKE SURE PROPER RAILING HEIGHTS ARE ACHIEVED. RAILING HEIGHTS AND UPPER BRACKET HEIGHTS MAY NEED TO BE ADJUSTED. HOWEVER, DO NOT REDUCE HEIGHTS BASED ON YOUR RAILING CODE REQUIREMENTS. MEASURE CAREFULLY as dimension heights may need to be adjusted!

1. Lay bottom stair rail on steps beside posts. Position bottom rail at least 1” (2.5 cm) above nose of stair tread.

TIP: Use a 1” (2.5 cm) deck board as a spacer board and clamp rails to post. Mark where lower brackets are to be attached to both posts. Mark at underside of railing location.

2. Center lower stair bracket on post above the marked line and attach using two self-tapping screws (provided). In some cases it may be difficult to attach the stair bracket on the lower stair post. Recommend using a 90° cordless drill in this area if possible to attach screws.

3. Center lower stair swivel bracket on post above the marked line and attach using four self-tapping screws (provided). In some cases it may be difficult to attach the stair bracket on the lower stair post. Recommend using a 90° cordless drill in this area if possible to attach screws.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPONUD SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES

TREX SIGNATURE

Installing Upper Fixed Stair Brackets

4. Measure up required dimension for 36” (91.4 cm) tall railing or 42” (106.7 cm) tall railing, from top of lower stair rail fixed bracket. Mark with light line.

5. Center upper stair fixed bracket on post below the marked line and attach using two self-tapping screws (provided).

Technical Illustrations

NOTE: Upper bracket is not required on crossover post configurations.

Installing Upper Stair Swivel And Compound Swivel Brackets

6. Measure up required dimension for 36” (91.4 cm) tall railing or for 42” (106.7 cm) tall railing, from top of lower stair rail swivel bracket. Mark with light line.

7. Center upper stair swivel bracket on post below the marked line and attach using four self-tapping screws (provided).

How to Measure Bottom Stair Railings (WHEN REQUIRED)

When Using Fixed Stair Brackets:

1a. Position bottom stair rail along the nose of the stair treads. Ensure that before cutting, balusters holes are centered in between the posts and also allow for clearance for attachment to brackets. Mark bottom stair rail at each intersection.

Mounting Holes

Required distance per railing height

Top stair bracket – top rail

Required distance per railing height

Bottom stair bracket – top rail

5

7
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES/CONTINUED

TREX SIGNATURE STAIR RAILING INSTALLATION INSTRUCTIONS

When using Stair Swivel and Compound Swivel Brackets:

1b. With brackets in correct swivel locations, measure distance from inside of swivel bracket to inside of swivel bracket. Ensure that before cutting, balusters holes are parallel and centered in between the posts and also allow for clearance for attachment to brackets. Mark bottom stair rail at each intersection.

Cutting Bottom Stair Rail, Bottom Stair Rail Cover, and Attachment of Bottom Stair Rail Cover

When using Fixed Stair Brackets:

2a. Cut each end of the bottom stair rail, rail insert, and bottom rail cover 1/4” (0.6 cm) shorter than the mark on each end to allow for fit into bottom stair rail brackets.

NOTE: Railing does not need to be cut at angle. Brackets are designed to allow for railing to be installed with standard straight cut.

Attachment of Bottom Stair Rail Cover and Bottom Stair Rail to Brackets

3. Attach “flat” bottom stair rail cover to bottom stair rail. Align cover on one side of the bottom rail in slot on side of rail. Then starting from one end of rail snap cover onto opposing slot working down the length of the rail. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES

TREX SIGNATURE

4. Set bottom stair rail into bottom stair rail brackets. Attach bottom stair rail to bottom stair bracket using two self-tapping screws (provided) on each side of bracket.

**How to Measure Top Stair Railings (WHEN REQUIRED):**

**IMPORTANT NOTE: BEFORE CUTTING ANY TOP RAILS MAKE SURE THAT WHEN MEASURING ALL BALUSTER HOLES LINE UP PARALLEL!**

**When Using Fixed Stair Brackets:**

5a. Place two balusters into lower rail at each end closest to post.

5b. Position top rail onto balusters (position to side of post) and ENSURE that balusters are parallel with post. Mark top stair rail at each intersection.

**When using Stair Swivel and Compound Swivel Brackets:**

5c. Place two balusters into lower rail at each end closest to post.

5d. Position top rail onto balusters (position to side of post) and ENSURE that balusters are parallel with post. With brackets in correct swivel location, measure distance from inside of swivel bracket to inside of swivel bracket. Mark top stair rail at each intersection.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES/CONTINUED

TREX SIGNATURE

Attach Stair Crossover Swivel Bracket to Post

6. Insert stair crossover swivel bracket into post.

NOTE: Keep the bracket cover on when inserting this into post, this will cover the screw attachment area.

7. Determine location/height of the stair crossover swivel bracket by aligning the angle of this with the fixed brackets (or compound swivel brackets) already installed.

8. Once location/height is determined, center and pre-drill two holes (using a drill bit slightly smaller than that of self-tapping screw diameter) on opposite sides of post, approx. 1/4" from top of post. Drill through the post and into the stair crossover swivel bracket on each side.

9. Attach stair crossover swivel bracket to post with two self-tapping screws (provided). Slide cover over post to hide screws.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES

TREX SIGNATURE

Cutting Top Stair Rail and Rail Insert
Option 1:
For Stair-Post-to-Stair-Post Configuration

When Using Fixed Stair Brackets:

10a. Cut each end of top stair rail along with rail insert 1/4" (0.6 cm) shorter than mark to allow for fit into top stair rail bracket.

**NOTE:** Railing does not need to be cut at angle. Brackets are designed to allow for railing to be installed with standard straight cut.

When using Upper Stair Swivel and Compound Swivel Brackets:

11a. Top stair rail along with rail insert must be cut differently on each side of the rail. Railing side that attaches to standard post should be cut 1/4" (0.6 cm) shorter than the mark to allow for fit into top rail bracket. Railing side that attaches to the crossover post should be cut directly on the mark to allow for fit into the crossover post bracket.

**KEY**

- Mark
- Cut

**Mark Cut**

- Top stair rail
- Crossover post
- Standard post

11b. When going from standard stair post to stair crossover post, measurement must be taken from inside of top horizontal stair swivel bracket to inside lip of stair crossover bracket (crossover post will need to be modified to have swivel crossover bracket installed).

**KEY**

- Standard post
- Crossover post
- Standard post

10b. Cut top rail along with rail insert to the measurement between the top stair swivel brackets. For standard post to standard post configurations this would be same dimensions as that of the bottom stair rail.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES/CONTINUED

TREX SIGNATURE

Cutting Top Stair Rail and Rail Insert
Option 3:
For Stair-Crossover-Post-to-Stair-Crossover-Post Configuration

12a. Cut each end of the top stair rail along with rail insert on the mark line to allow for fit into the crossover post bracket on each side.

Cutting Top Stair Rail Cover, and Attachment of Top Stair Rail Cover

13. Mark and cut top rail cover same length as top rail for all top rail configurations.

14. Attach “crowned” upper stair rail cover to upper stair rail by aligning cover on one side of rail. Then starting from one end of stair rail, snap cover onto opposing slot working down length of stair rail. A rubber mallet may facilitate the fastening using GENTLE tapping.

Installing Balusters into Bottom Stair Rail

15. Place balusters into holes in lower stair rail by snapping fully into place. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO SIGNATURE POSTS AND PRESSURE-TREATED POST AND POST SLEEVES/CONTINUED

TREX SIGNATURE

Attaching Upper Stair Rails

16. Working from one end of upper stair rail, snap balusters into upper stair rail working down length of rail.

17a. For stair post to post configuration, attach top stair rail to top stair bracket (all types) using two self-tapping screws (provided) on each side of stair bracket.

17b. For stair crossover post configuration, fasten upper stair rail to swivel crossover post bracket by installing screws diagonally through crossover stair bracket into upper rail using two self-tapping screws (provided) on each side.

Attachment of Stair Bracket Covers, Skirts, and Caps

18. Attach corresponding bracket covers over opening in upper and bottom rails.
19. Attach provided post skirt to bottom of posts when using Signature posts.

20. Attach post caps to Signature posts (use of rubber mallet may be required for secure attachment).

NOTE: Pre-drilling is recommended (7/64" [0.28 cm] drill bit) for attachment of stair railing to stair bracket.
TREX SIGNATURE (formerly Reveal) STAIR RAILING
Installation Instructions

HOW TO INSTALL SIGNATURE COCKTAIL STAIR RAILING
TREX SIGNATURE®

IMPORTANT NOTES:
» Only for use with pressure treated 4 x 4 post (3.5” nominal square) and 4” x 4” (102 mm x 102 mm) post sleeve. Trex Signature posts, Trex post mounts or joist mount posts cannot be used with Signature Cocktail stair railing. Cutting post and post sleeve only apply to the Cocktail style railing.
» DO NOT CUT POST/POST SLEEVES UNTIL TOP RAILING AND COVER IS FULLY INSTALLED.
» When referring to previous instructions referenced disregard all crossover post instructions as these cannot be used with Cocktail railing.
» THE DECK BOARD USED IN SIGNATURE COCKTAIL WILL NEED TO TERMINATE AT THE TOP OF THE POST AS SHOWN ABOVE. THE DECK BOARD WILL HAVE TO BE TOENAILED INTO THE SIDE OF THE POST IN THESE AREAS USING 2 APPROPRIATE COMPOSITE DECKING SCREWS – PREDRILLING IS RECOMMENDED.

Installing Pressure Treated Posts, Post Sleeves,and Skirts to Use with Signature Railing
1. See instructions on page 3.

Installing Brackets
2. Follow previous stair instructions for the installation of desired brackets making sure that all dimensions are calculated before installation to ensure deck board is placed in correct location.
See instructions on pages 4-6.

Cutting Bottom Stair Rail, Bottom Stair Rail Cover and Attachment of Bottom Stair Rail Cover

How to Measure Top Stair Railings (WHEN REQUIRED)
4. See instructions on page 7.

Cutting Top Stair Rail and Rail Insert When using Fixed Stair Brackets
5a Cut each end of top stair rail along with rail insert 1/4" (0.6 cm) shorter than mark to allow for fit into top stair rail bracket.
NOTE THAT THE TOP RAIL WILL NEED TO BE CUT AT APPROPRIATE ANGLE ON THE END OF THE RAIL THAT CONNECTS TO THE UPPER FIXED BRACKET SO THAT WHEN THE RAIL IS INSTALLED IT SITS FLUSH WITH THE END OF THE BRACKET AS SHOWN.

Cutting Top Stair Rail Cover, and Attachment of Top Stair Rail Cover

Installing Balusters into Bottom Stair Rail
7. See instructions on page 10.

Attaching Upper Stair Rails
8. See instructions on page 11.
HOW TO INSTALL SIGNATURE COCKTAIL STAIR RAILING
TREX SIGNATURE®/CONTINUED

Cutting Post and Post Sleeve and Attaching Deck Board to Top Rail
9. Cut post and post sleeves at proper angle so these are flush with the top of the top brackets and/or top rail cover. BE CAREFUL to not CUT brackets.

10. Place deck boards (DO NOT use Escapes or Contour deck boards for top rail) over top rails. PLACE DECK BOARD ON TOP RAIL TO CHECK FOR PROPER FIT AND RAIL CLEARANCE FIRST AT BRACKET LOCATIONS. DECK BOARD MAY REQUIRE EITHER A NOTCH CUT ON THE UNDERSIDE OR SLIGHT PLANING ON THE UNDERSIDE TO ALLOW DECK BOARD TO CLEAR TOPS OF BRACKETS AND SIT FLUSH ON TOP OF POSTS AND RAILS. Attach boards on each post with Trex-recommended composite screws (quantity of 2 per each board end).

11. Secure boards to top rail using Signature Cocktail Bracket (sold separately). Ensure that there is a bracket at each end of the stair railing section, then space brackets approximately every 24” and attach with 4 screws provided.

12. Use scarf cut for posts where two deck boards meet.

NOTES:
» If installing in weather below 40°F (4.5°C), leave 1/8” (3 mm) gap between deck boards.
» Deck boards can overhang end of last post maximum 1/2” (13 mm).

13. Where deck board terminates at top of post horizontal deck board, PREDRILL and toenail two approved composite deck screws as shown into post, being careful to avoid hitting stair bracket.

Attachment of Bracket Covers and Skirts
14. See instructions on page 11.

NOTE: Top Bracket Covers are not attached in this configuration.
TREX SIGNATURE (formerly Reveal) STAIR RAILING
Installation Instructions

HOW TO INSTALL SIGNATURE TRADITIONAL STAIR RAILING
TREX SIGNATURE®

Important: ONLY use for use with pressure treated 4 x 4 post (3.5” nominal square) and 4” x 4” (102 mm x 102 mm) or 6” x 6” post sleeve. Trex Signature Posts, Trex Post Mounts or Joist Mount Posts cannot be used with Signature Traditional railing.

Installing Standard Signature Stair Posts, or Pressure-treated Post
1. See instructions on page 3.

Attaching Stair Brackets
2. See instructions on page 4.

Installing Lower Fixed Stair Brackets

Installing Lower Stair Swivel and Compound Swivel Brackets
4. See instructions on page 4.

Installing Upper Fixed Stair Brackets
5. See instructions on page 5.

Installing Upper Stair Swivel And Compound Swivel Brackets
6. See instructions on page 5.

How to Measure Bottom Stair Railings When Using Fixed Stair Brackets
7. See instructions on page 5.

How to Measure Bottom Stair Railings When using Stair Swivel and Compound Swivel Brackets
8. See instructions on page 6.

Cutting Bottom Stair Rail, Bottom Stair Rail Cover

Attachment of Bottom Stair Rail Cover and Bottom Stair Rail to Brackets
10. See instructions on page 6.

How to Measure Top Stair Railings When Using Fixed Stair Brackets
11. See instructions on page 7.

How to Measure Top Stair Railings When using Stair Swivel and Compound Swivel Brackets
12. See instructions on page 7.

Cutting Top Stair Rail and Rail Insert When Using Fixed Stair Brackets

Cutting Top Stair Rail and Rail Insert When using Upper Stair Swivel and Compound Swivel Brackets

Attachment of Top Stair Rail Cover
15. See instructions on page 10.

Installing Balusters into Bottom Stair Rail

Attaching Upper Stair Rails
17. See instructions on page 11.

Attaching 2” x 4” to Top Rail
18. Place 2” x 4” (51 mm x 102 mm) beside top rail. Mark and cut (both ends need to be cut on an angle for proper fit).
19. Place 2" x 4" (51 mm x 102 mm) on Signature top stair rail.

20. Secure 2" x 4" (51 mm x 102 mm) to top rail using Signature Cocktail Bracket (sold separately). Ensure that there is a bracket at each end of the railing section, then space brackets approximately every 24" and attach with 4 screws provided.

NOTE: Predrilling before attachment is recommended.

21. Pre-drill a pilot hole and toenail 2-1/2" (6.4 cm) screw at each end of 2" x 4" (5.1 cm x 10.2 cm) into post on back side of rail (side not facing decking).

Attachment of Lower Stair Bracket Covers, Skirts, and Caps
22. See instructions on page 11.

NOTE: Top Bracket Covers are not attached in this configuration.