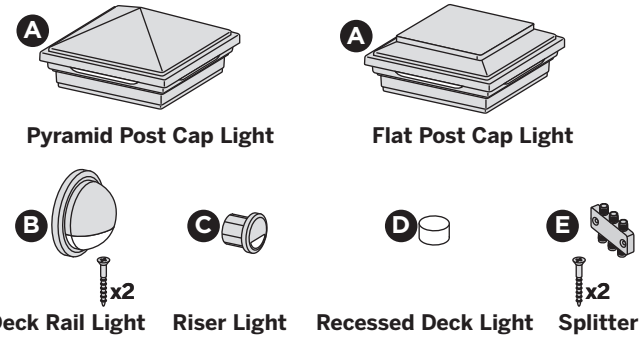
TREX® DECKLIGHTING

Installation Instructions

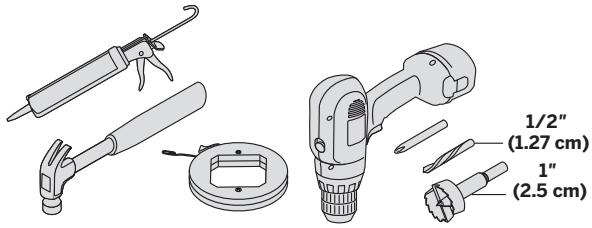
HOW TO INSTALL TREX® DECKLIGHTING™

PARTS

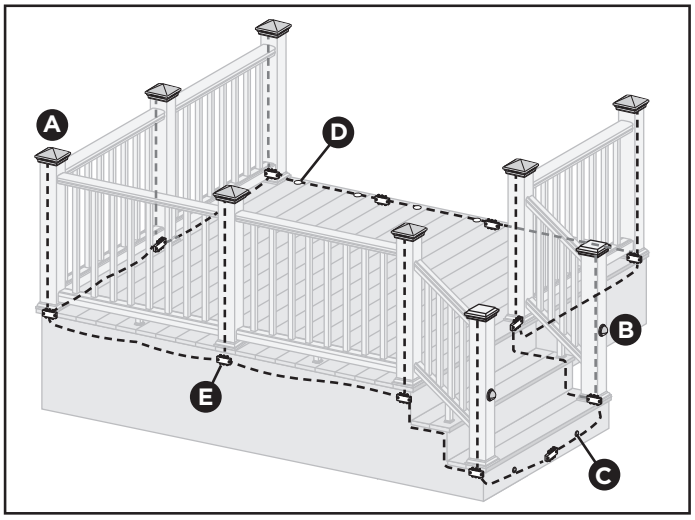


» 5ft, 10ft, 20ft, 40ft, and 60ft connection/extension wires sold separately (these are male to male connection wires).

TOOLS NEEDED



LIGHTING AND WIRING OVERVIEW



NOTE: *All wiring and splitters are mounted to inside of framing, picture is just representation of where to place these in general.*

NOTE: *Avoid railing brackets and locations for deck rail lights when running wires up posts.*

NOTE: *It is recommended to install wiring and splitters before decking and railing have been installed.* ***DO NOT*** *run wires between joists and deck boards.*

HELPFUL TIPS

» Leave slack in wire to make fixture terminations.

» Recessed lights work well spaced 4′ (1.22 m) to 6′ (1.83 m) on center around perimeter of deck.

» Deck rail lights work well at changes in levels of a deck—at the top or the bottom of the stairs, or in conjunction with post cap lights.

» Riser lights should be placed giving considerations to local codes. If codes do not exist, assess adequate number and placement via darkness evaluation prior to drilling.

» Drill holes perpendicular to the surface, being careful to hold drill steady, to avoid producing an enlarged hole. If hole is enlarged, light fixture will have a loose fit. Use of a flexible outdoor semi-permanent adhesive (silicone caulk) may be required to anchor light in place.

» Riser and deck rail holes can be through holes. However, recessed light holes should be drilled to a depth of 3/4″ (1.9 cm). Over-drilled recessed light holes will require use of silicone caulk to anchor light in place.

» Splitters should be used at each post that has lights and depending on spacing in between each riser and recessed light.

» Cap all unused female connections with caps provided or weather resistant silicone to prevent water damage or corrosion.

» The splitter is cross linked so there is no specified plug for lights versus lead wires.

» Leads attached to each light are approx. 5' to 6' (1.5m to 1.8m) in length and have male terminals to plug into splitter.

» Use a separate dimmer control for each light type for maximum control.

» It is recommended to have power source attached when installing lights to ensure all components work.

Have Questions?
1–800–BUY–TREX

NOTE: *Construction methods are always improving. Please ensure you have the most up-to-date installation instructions by visiting:* ***trex.com***

HOW TO INSTALL TREX® DECKLIGHTING™/CONTINUED

General Information

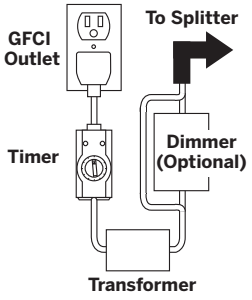
» **ALWAYS** consult local codes before beginning a project.
» **USE TREX TRANSFORMER ONLY. Use of any other transformer voids warranty.**

TRANSFORMER CAPACITY BY TYPE		
Type of Light	**5A Transformer (DL TRANSFORMER)**	**2.5A Transformer (2.5 DL TRANSFORMER)**
Riser	180	90
Recessed	180	90
Post Cap	55	22
Deck Rail	180	90

Above listing is for maximum number of each individual types of lights. If mixing and matching lighting, contact Trex to determine if more than on transformer is required.

Planning

NOTE: *When designing your deck, plan locations of lights, power supply, timer, and dimmer. These should be accessible for service. Installing a GFCI outlet is REQUIRED to help prevent damage to lighting from electrical surges.*

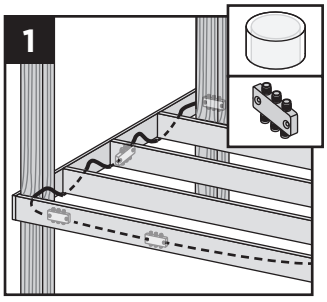


1. The dimmer remote will work in a 30' (9 m) radius of the unit.
2. Dimmer should be installed in a dry location.
3. Timer must be installed vertically with receptacle facing downwards. Timer must be at least 1' from ground level when installed as per federal safety code height regulations. Timer must be in view of the sun to use the dusk/dawn feature.

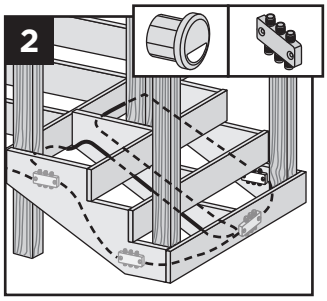
Installing Wiring

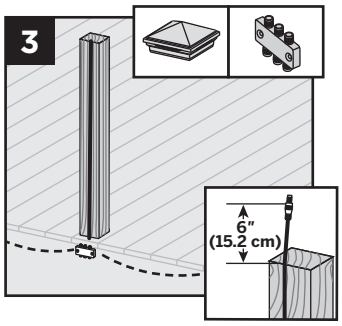
NOTE: *It is recommended to install wiring and splitters before decking and railing have been installed.*

» Use Male to Male connection wire (lengths vary) that will connect to each required splitter.



1. Wiring must be run under decking structure and behind stringers. **DO NOT** run wires between deck boards and joists. Staple to frame with cable staples at least 1/4" (0.6 cm) wide. **DO NOT** crush wire insulation with staple.

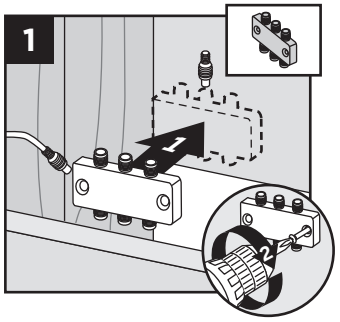


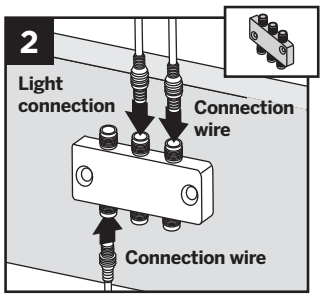


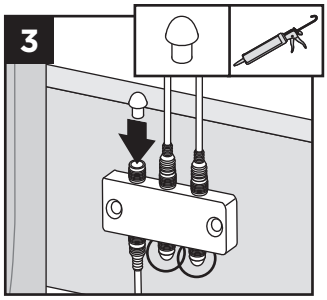
2. Wiring can be run under deck and behind risers. Staple to frame with cable staples at least 1/4" (0.6 cm) wide. **DO NOT** crush wire insulation with staple.
3. Remove 5' lead wire that is connected to post cap and attach wire to post with male connection at top of post (female connection would be at bottom of post and connect into splitter). Avoid running wire on side of post where railing brackets or deck rail lights will be installed. Leave approximately 6" (15.2 cm) of lead at top to make connections. Staple to frame and posts with cable staples at least 1/4" (0.6 cm) wide. **DO NOT** crush wire insulation with staple.

Making Connections

1. Install splitters to inside of framing using hardware provided. Install at every post base where lighting is present and depending on spacing in between each riser and recessed light.







2. Attach male lead from lights to female connections on splitter. Also attach male to male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters.
3. Cap off all unused female connections on splitters using caps provided or weather resistant silicone.

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TDL-1113

HOW TO INSTALL TREX® DECKLIGHTING™/CONTINUED

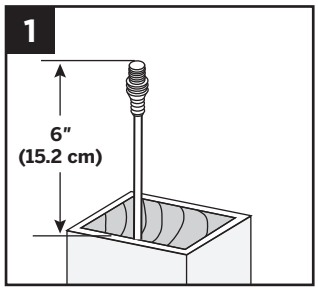
Timer Operation Instructions

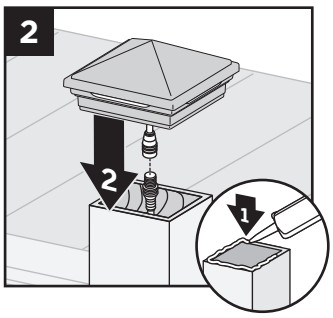
1. Select the mode of operation:
   - » Dusk to Dawn
   - » 1 - 8 hours
   - » Always "ON"
   - » "OFF"

Program repeats daily. When power is flowing to lights, green light above POWER is on.

Installing Post Cap Lights

NOTE: *Install post cap lights after the railing system, post sleeve skirt, and post sleeve have been installed.*



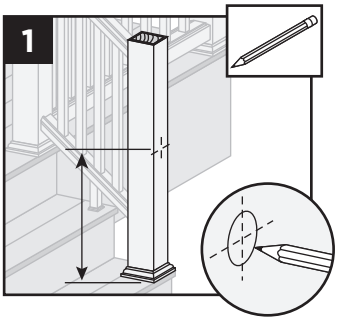


1. Connect male lead from wiring to female connector from cap. Also attach male to male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters as well as connector wires are attached in between splitters. *(See Making Connections section for details.)*
2. After verifying wiring is correct by turning lights on, attach cap to top of post with silicone caulk.

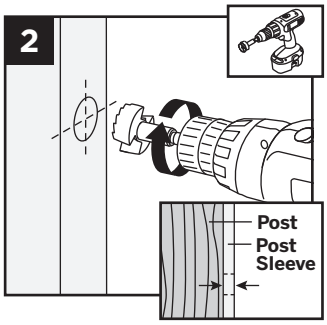
Installing Deck Rail Lights

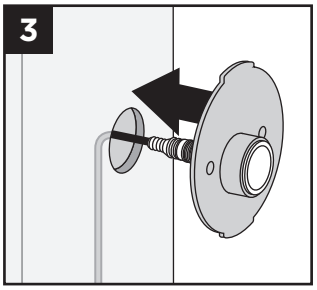
NOTE: *Instructions shown below are for new deck installation and are shown* ***BEFORE*** *railing system has been installed.*

1. Place post sleeve over pressure treated post and mark desired height, centered on post sleeve for deck rail light location.



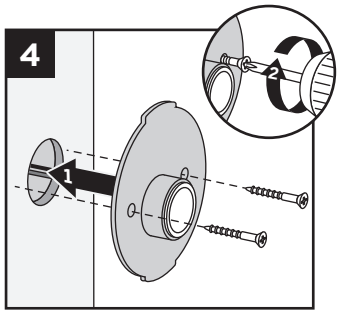
NOTE: *If deck boards are not installed yet place an appropriate deck width spacer board to ensure post sleeve is at correct height.*

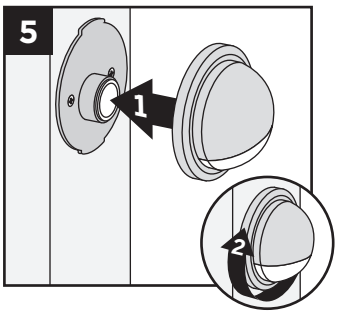




2. Drill a 1" (2.5 cm) hole through post sleeve. Use care to stop drill before cutting into post.
3. Remove the post sleeve from the post and fish wire from deck rail light through hole and down to female connector on splitter. Also attach male to male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters as well as connector wires are attached in between splitters. *(See Making Connections section for details.)*

IMPORTANT NOTE: *Before attaching deck rail light to the post/post sleeve make sure decking has been installed along with skirt over the post sleeve.*





4. Replace post sleeve over pressure treated post and align holes for screws vertically and attach fixture base to post with provided screws as indicated above.
5. Line up polycarbonate lens with fixture housing. Twist onto fixture base.

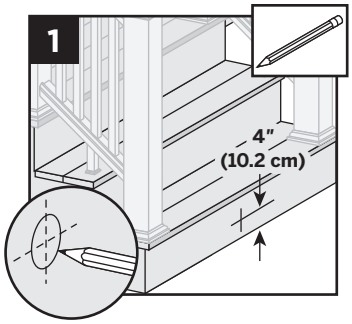
NOTE: *If railing has already been installed, lead wires will need to be fished through the post sleeve to reach the desired location for the deck rail light. In some cases if the provided lead wire does not fit (due to connector size), the wire connectors can be cut off wire nuts can be used. Test lights with the power on and if lights do not function that are wired with this method, switch the connector wires.*

HOW TO INSTALL TREX® DECKLIGHTING™/CONTINUED

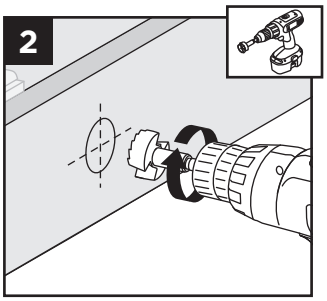
Installing Riser Lights

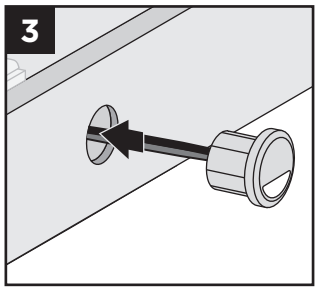
NOTE: *Install riser lights after stair and risers have been installed.*

1. Mark locations for each light, generally 4″ (10.2 cm) above tread. Consult local codes for lighting requirements.

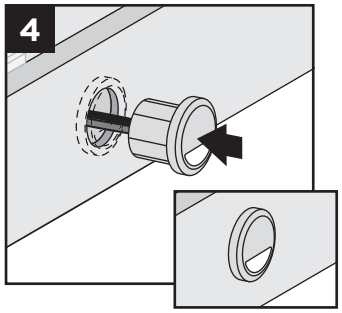


NOTE: *If possible, avoid locations over stringers as holes will be more difficult to create.*





2. Drill a 1″ (2.5 cm) diameter hole at least 1″ (2.5 cm) deep into riser. If riser material is thicker than 1″ (2.5 cm), use a 1/2″ (1.27 cm) drill bit to create a passage for wires.
3. Thread wires through hole.
4. Press light into hole, ensuring lens is horizontal. Make connections behind stairs from male lead wire from recessed light into female connection on splitter. Also attach male to male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters. *(See Making Connections section for details.)*



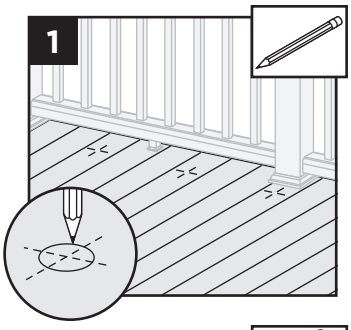
NOTE: DO NOT *install Riser Light or Deck Rail Light into top or bottom rails or balusters.*

Installing Recessed Deck Lights

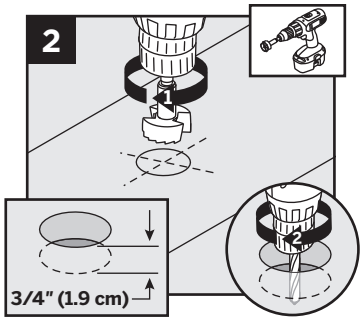
NOTE: *Install recessed deck lights after installing decking.*

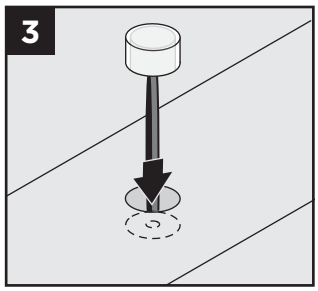
1. Mark locations for lights in deck boards.

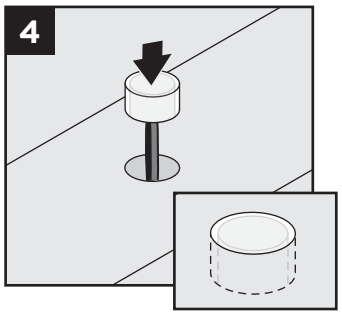
NOTE: *If possible, avoid locations over joists as holes will be more difficult to create.*



2. Drill a 1″ (2.5 cm) diameter hole 3/4″ (1.9 cm) deep into deck board. Hole cannot go all the way through deckboard or light will fall through. Make sure drill bit is perpendicular to board. Drill a 1/2″ (1.27 cm) diameter hole in base of the first hole through deck board.







3. Thread wires through hole. **DO NOT pull LED into hole by pulling on wires. This may damage wires or LED.**
4. Press light into hole until flush with surface. Make connections under deck from male lead wire from riser light into female connection on splitter. Also attach male to male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters. *(See Making Connections section for details.)*