

INSTALLATION GUIDES

WOLF OUTDOOR LIGHTING



WOLF HOME PRODUCTS®

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WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

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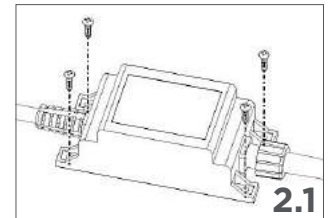
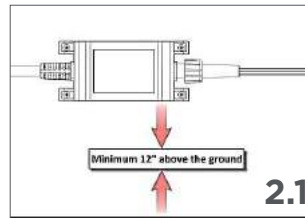
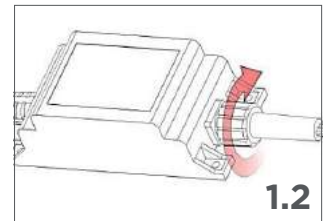
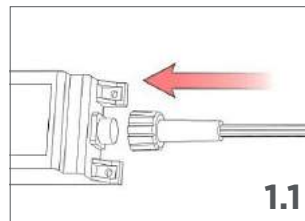
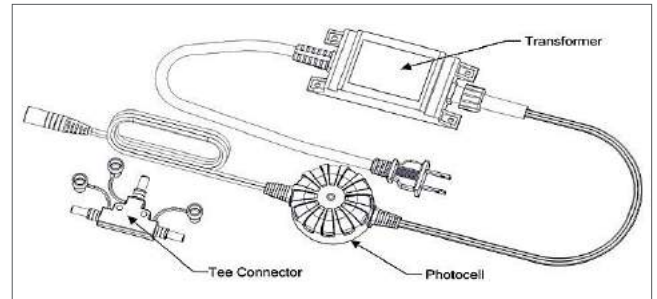
12 VOLT 12 WATT DC TRANSFORMER

PRE - INSTALLATION NOTES

- Follow all national and local building and electrical codes.
- Transformer must be plugged into a GFCI outlet.
- Transformer can support up to 12 watts.
- Do not cut any wires. Any extra wire length can be coiled up.
- Do not use extension cords.
- Do not use within 10 feet of ponds, pools, or spas.
- Cover the photocell sensor with dark tape to make the lights work while testing.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.

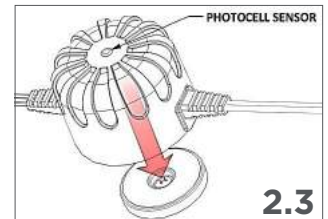
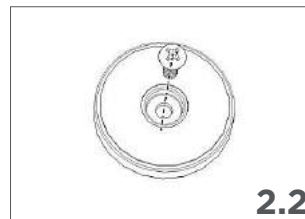
STEP 1 - PREPARE THE TRANSFORMER

- 1.1 Properly align the photocell plug with the transformer receptacle and firmly push the plug into place.
- 1.2 Tighten the plastic nut by turning clockwise. If the photocell is already attached, check to make sure plastic nut is completely tight for a weatherproof seal.



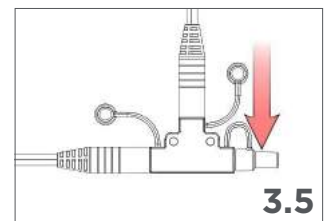
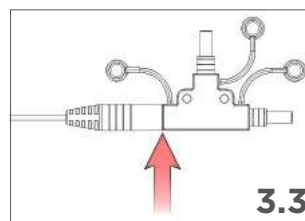
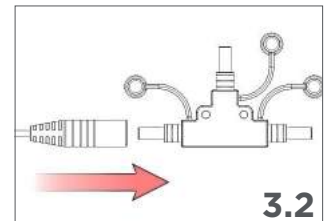
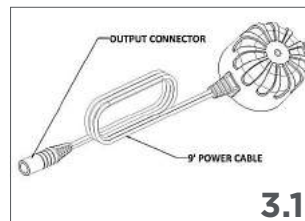
STEP 2 - MOUNT THE TRANSFORMER AND PHOTOCELL

- 2.1 Use (4) #4 x 1/2" screws (not supplied) to mount transformer to an exterior wall surface or deck face a minimum of 12" above ground level. Plug the transformer into the GFCI outlet.
- 2.2 Mount the round photocell holder next to the transformer with the supplied screw. Ensure the location of the photocell can sense dusk and dawn.
- 2.3 Peel off the protective film covering the adhesive on the top surface of the round photocell holder. Align the photocell and press firmly onto the adhesive.
- 2.4 To test the power supply during installation, temporarily cover the photocell sensor with dark tape so the lights will come on during installation. Be sure to remove the tape for normal operation. (Location of Photocell Sensor shown in picture 2.3.)



STEP 3 - PLUG IN TEE CONNECTOR

- 3.1 Run the 9' power cable from the photocell to the location of the first light fixture. If needed, the power cable can fit through a 1/2" hole.
- 3.2 Plug the output connector from the photocell into the supplied T-Connector. Press firmly until the connection is fully engaged.
- 3.3 Connection is fully engaged when there is minimal gap between the output and Tee connectors.
- 3.4 Connect light fixtures per their instructions.
- 3.5 Any unused Tee Connector terminals or splitters in the system must be sealed using the attached cap.



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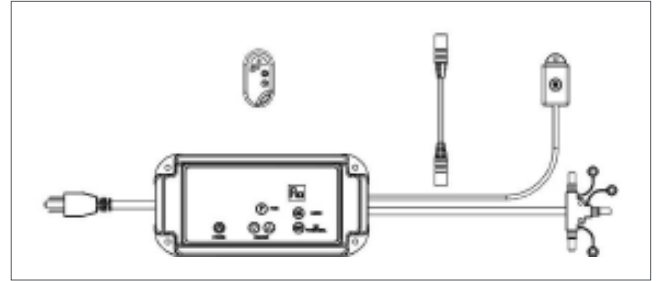
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12 VOLT 50 WATT DC SMART TRANSFORMER

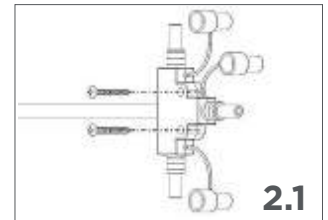
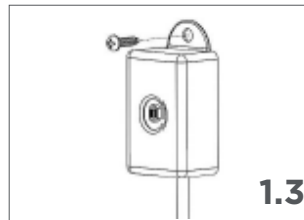
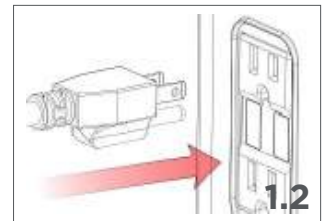
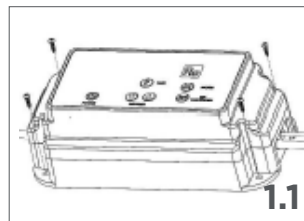
PRE - INSTALLATION NOTES

- Follow all national and local building/electrical codes.
- Transformer must be plugged into a GFCI outlet.
- Transformer can support up to 50 watts output.
- Don't cut any wires. Extra wire length can be coiled up.
- Do not use extension cords.
- Do not use within 10 feet of ponds, pools, or spas.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.
- Always keep away from external heat sources.



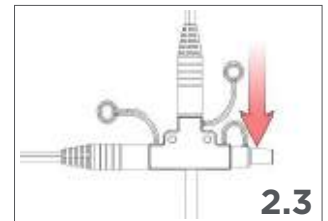
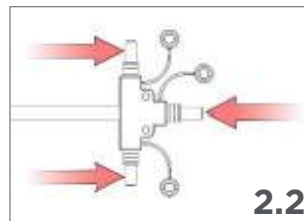
STEP 1 - MOUNT THE TRANSFORMER AND PHOTOCELL

- 1.1 Use (4) stainless steel screws (not included) to mount the transformer a minimum of 12" above the ground level and within reach of a 120V AC GFCI outlet. The 120V AC power cord attached to the transformer is 5 feet long. The transformer can be mounted under the deck but the control panel on the transformer should be accessible to change settings.
- 1.2 Plug the transformer into the GFCI outlet.
- 1.3 Use a stainless steel screw (not included) to mount the photocell in a location that can sense dusk and dawn (night and day) conditions. The attached photocell cord is 5 feet long.



STEP 2 - MOUNT THE TEE CONNECTOR

- 2.1 Run the 4 foot output power cable with the Tee Connector attached to the location of the first light or a central location if lights will be located in multiple directions. The Tee Connector can be secured loosely using (2) #4 x 1" stainless steel screws (not supplied). Do not tighten the screws completely as this can damage the Tee Connector.
- 2.2 If needed, all 3 of the output connectors on the Tee Connector are active and will supply equal power to the entire system.

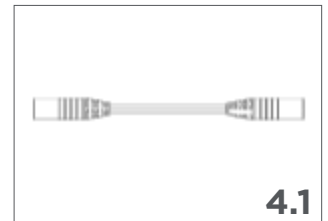


STEP 3 - INSTALL THE LIGHTS AND FINALIZE INSTALLATION

- 3.1 Connect the rest of the Main Wiring Connections (not included) per their instructions.
- 3.2 Connect the desired light fixtures (not included) per their instructions.
- 3.3 Refer to the included Control instructions for operation of the transformer. The Control instructions should be retained for future reference.

STEP 4 - CLOSED LOOP CONNECTOR (OPTIONAL BUT RECOMMENDED)

- 4.1 Included with the transformer is a closed loop connector. The closed loop connector has a red female connector on each end and is 6" long. The closed loop connector is used to connect the Main Wiring back into the transformer. This reduces the voltage drop across the wiring in the system.
- 4.2 Use a 2 output splitter on the last light fixture of the run. Plug the last light fixture into one of the 2 outputs splitters male connections. Plug an extension harness into the other male connection of the 2 output splitter. Run enough extension harnesses end to end to reach back to the Tee Connector of the transformer. Use the closed loop connector to make the connection between the extension harness and the Tee Connector.

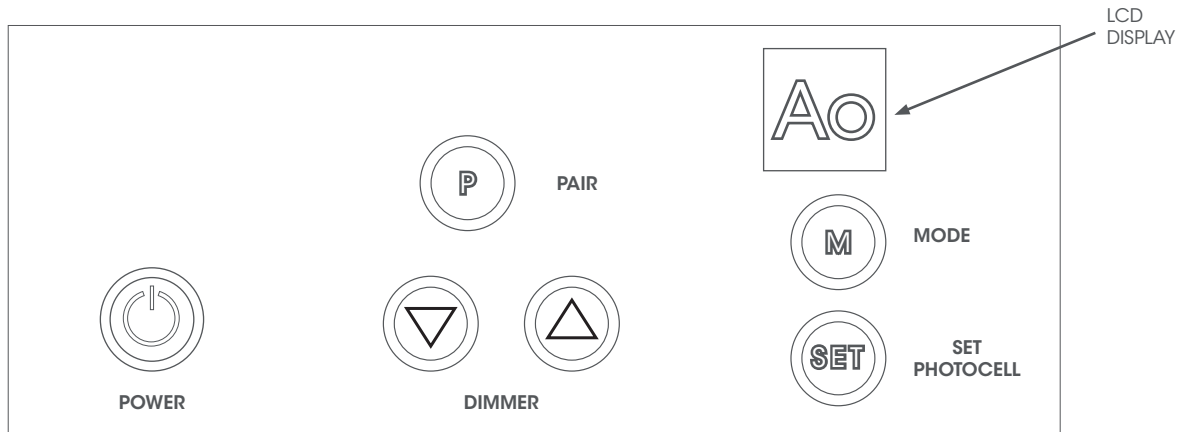


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INSTRUCTIONS

12 VOLT 50 WATT SMART TRANSFORMER CONTROL



POWER

POWER

Turns the system power off and on. When the system power is off, the LCD display will be blank and the only button that will function is the power button. When the system power is on, the LCD display will show the current mode or function that is active.



MODE AND LCD DISPLAY

Pressing or holding in the mode button will cycle through the different modes settings. The mode settings are 1h, 2h, 3h, 4h, 5h, 6h, 7h, 8h, dd and Ao.

1 to 8 hour timer (1h, 2h, 3h, 4h, 5h, 6h, 7h, 8h)

- Uses the photocell to turn the lights on. When the photocell senses darkness continually for 30 to 40 seconds, the lights will turn on.
- The lights shut off after the set time expires (1 hour for 1h mode, 2 hours for 2h, etc.).
- After the set time expires the lights will remain off.
- Whether the timer has expired or is still active, when the photocell senses light continually for 30 to 40 seconds, the timer will be reset and ready for another cycle. If the lights are on, they will be shut off and the timer is reset.

Dusk to Dawn (dd)

- Uses the photocell to turn the lights on. When the photocell senses darkness continually for 30 to 40 seconds, it will turn on the lights.
- The lights will remain on until the photocell senses light continually for 30-40 seconds.
- When the photocell senses light continually for 30 to 40 seconds the lights will be shut off and ready for another cycle.

Always On (Ao)

- The lights are on all the time. The photocell is not used.

DIMMER

- Pressing or holding in the up button (▲) will make the lights brighter. If the lights are full brightness and the button is pressed again (or held in), the lights will flicker or flash to indicate the lights are at the brightest setting.
- Pressing or holding in the down button (▼) will make the lights dimmer. If the lights are dimmed to the lowest setting and the button is pressed again (or held in), the lights will flicker or flash to indicate the lights are at the dimmest setting.
- The dimmer buttons are only operational when the output lights are on.

PAIR

Pairs a new wireless remote control or bluetooth device.

To pair a new wireless remote (the included remote is already paired at the factory):

- Press and hold the pair button on the transformer. At the same time press and hold the M button on the new remote. The LCD display will show rt to indicate that it is in remote pairing mode.



DIMMER



PAIR



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- Continue holding both buttons in for 8 to 10 seconds. When the new remote is paired, the output lights will flash or flicker. The transformer will cycle through the different modes until both buttons are released.

To pair a new bluetooth device (only needs to be done once per device):

- Download and open **SmartPower 50** app from Android or Apple stores.
- Press and release the pair button on the transformer. The LCD display will show bt to indicate that the transformer is in bluetooth pairing mode.
- When in bt mode, no buttons can be pushed for 30 seconds or until a new device pairs with the transformer. The transformer will automatically go back to the previous mode once 30 seconds has expired or a new device has been paired with the transformer.
- A new device that tries to pair with the transformer without being in bt mode will be rejected.



**SET
PHOTOCELL**

SET PHOTOCELL

Sets the trigger point for turning the lights on and off.

To set the photocell level:

- Ensure mode is set to 1h, 2h, 3h, 4h, 5h, 6h, 7h, 8h, or dd. The set photocell button will only work when in these modes.
- Wait until the ambient outdoor light condition is at the desired level for when the lights are to come on (dusk).
- Press and continue to hold the Set Photocell button for 10 to 15 seconds. The LCD display will change to P5.
- The lights will flash or flicker once the new photocell setting has been saved.
- The set photocell button can be released. The LCD display will return to the previous setting.
- The lights will turn on in 30 to 40 seconds as long as the ambient light condition is lower than when it was set.



REMOTE CONTROL

Controls the transformer remotely. Functions are the same as the transformer buttons.

- ▲ - brightens the lights if they are on
- ▼ - dims the lights if they are on
- ⏻ - turns the system power off and on
- M - Changes the transformer mode
- Pressing both ▼ and M in at the same time will put the transformer into bluetooth pairing mode (see above). The LCD display will show bt and no other functions will work for 30 seconds or until a new device is paired.

ADDITIONAL FEATURES

System Memory

- Previous settings are saved if power is lost. Settings are saved 30 seconds after the last settings change.
- Saved settings include: system power (on or off), transformer mode, photocell trigger point, dimming level, and wireless remote codes (up to 3 different remotes can be paired at one time).

Overload Protection

- The transformer can sense an overload condition. When this occurs, the lights will shut off and the LCD display will show oL. This can be caused by having too many lights attached or a pinched wire causing a short circuit.
- Pressing the power button twice will return the transformer to the previous mode. The system will then continue to check for an overload condition every 10 seconds.

Over Temperature Protection

- The transformer can sense an unsafe internal temperature condition. When this occurs, the lights will shut off and the LCD display will show ot. This can be caused by having the transformer too close to an external heat source.
- The transformer will automatically restart once the temperature has returned to a safe level. The system will continue to check for an over temperature condition every 10 seconds.

Factory Reset

- Unplug the transformer for at least 10 seconds. Holding the power button in while plugging in the transformer will force the transformer to return to factory settings. The power button can be released once the transformer turns on (the LCD display will show Ao since this is the default mode). All settings will return to factory default. Any bluetooth devices or replacement remote controls will need to be paired again. The original remote control will not need to be paired again.

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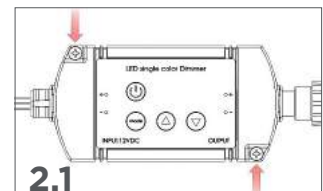
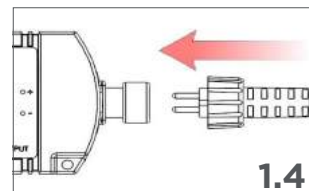
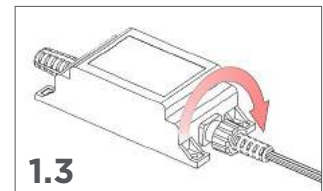
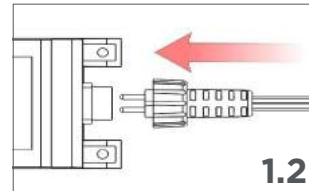
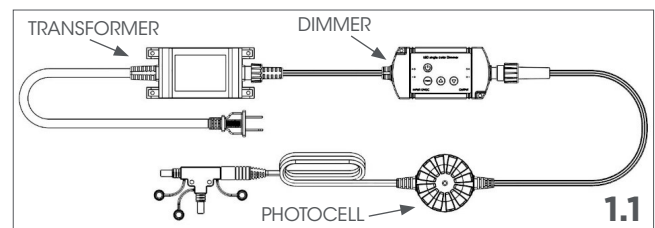
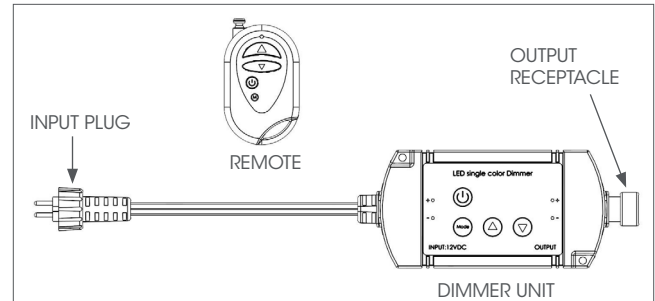
INSTALLATION GUIDE | WATERPROOF DIMMER FOR 12W TRANSFORMER

PRE - INSTALLATION NOTES

- For use with 12V 12W Transformer.
- Dimmer is rated for 12V DC / 5 Amps maximum.
- Dimmer is weatherproof but do not use within 10 feet of ponds, pools, or spas.
- Do not cut any wires. Coil up any extra wire.
- If wire staples are used don't pierce or crush wires.
- Remote range is approximately 25 yards with the antenna on the remote fully extended.
- Replacement remote battery: 27A 12V.
- A 2-10 second delay when turning the lights on and off with the dimmer unit or remote is normal.
- Dimmer stores the last brightness setting.

STEP 1 - CONNECT THE DIMMER UNIT

- 1.1 Dimmer unit should be installed between the transformer and the photocell. If the photocell is already installed on the transformer, unscrew the plastic nut and unplug the photocell from the transformer. Reference the transformer instructions.
- 1.2 Properly align the dimmer unit input plug with the transformer receptacle and push the plug into place.
- 1.3 Tighten the plastic nut by turning clockwise. The nut must be completely tight for a weatherproof seal.
- 1.4 Repeat steps 1.2 and 1.3 except plug the photocell input plug into the dimmer unit output receptacle.

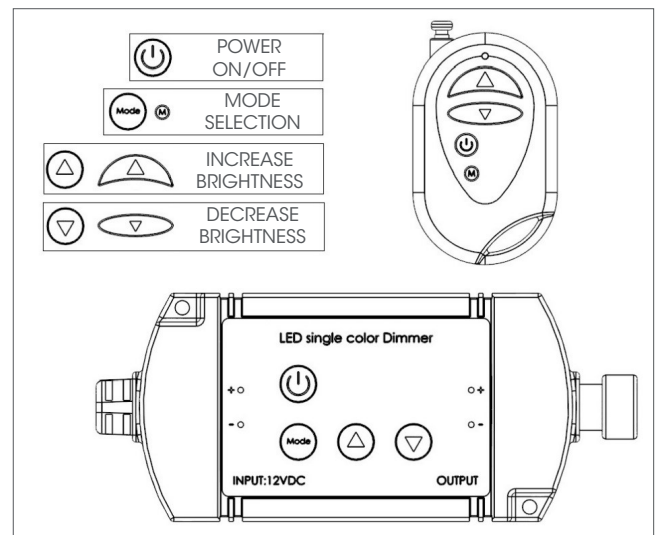


STEP 2 - MOUNT THE DIMMER

- 2.1 Mount the dimmer with (2) #4 stainless steel screws (not supplied) a minimum of 12" above ground level.

OPERATING INSTRUCTIONS - BUTTON FUNCTIONS

- **Power On/Off**
- **Mode Selection**
Preset dimming levels of 10%, 35%, 70%, and 100%. Pressing the button will loop through the four (4) preset dimming levels.
- **Increase Brightness**
Press and hold to slowly make lights brighter. Release the button when the desired brightness level is reached.
- **Decrease Brightness**
Press and hold to slowly make lights dimmer. Release the button when the desired brightness level is reached.



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LED DOME SIDE LIGHT

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

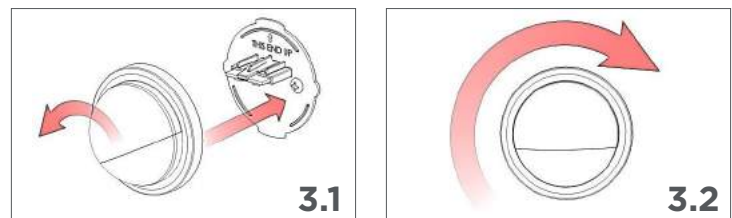
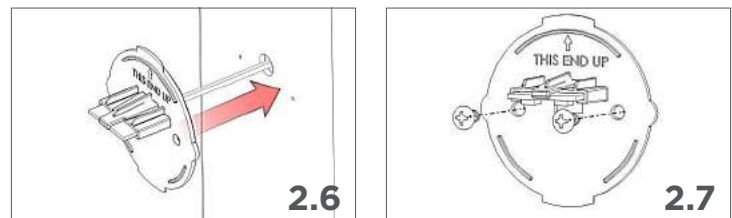
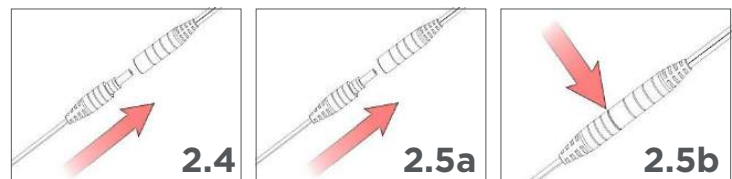
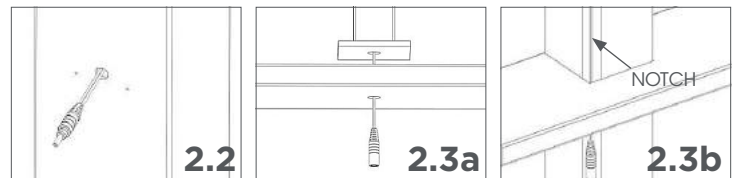
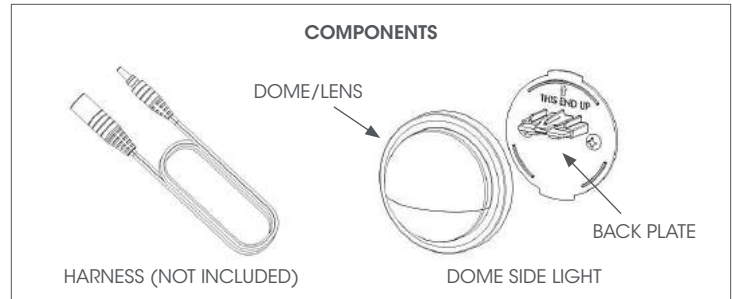
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each post location that will have a light installed.

STEP 2 - PREPARE THE POST AND THE BACK PLATE

- 2.1 Place the template at the desired location and pre-drill two 1/16" holes for screws and one 1/2" hole for the wire.
- 2.2 Run a Harness (not included) down the inside of the post or post wrap with the male connector hanging out of the 1/2" hole that was just drilled.
- 2.3 The female connector should be hanging out of the bottom under the deck - it will fit through a 1/2" hole. (a) If using a metal post mount, run the wire down the center of the post mount and through the center hole. (b) If using a wood post, a small notch can be removed from the corner to allow room for the wire. Ensure that future screws or brackets will not damage the wire.
- 2.4 Plug the female connector (from Step 2.3) into the male connector that is located beneath the post (from Step 1.2).
- 2.5 (a) Plug the male connector (from Step 2.2) into the female connector attached to the light. (b) Press firmly until the connection is fully engaged. The light should be illuminated if the transformer is on.
- 2.6 Push the wire and connection back through the 1/2" hole until the back plate of the light is flush with the post.
- 2.7 Align the pre-drilled holes and use the 2 included stainless steel screws to mount the back plate of the light to the post.

STEP 3 - INSTALL DOME LENS AND FINALIZE INSTALLATION

- 3.1 Place the dome/lens portion of the light over the back plate at a slight angle. Place the dome/lens portion over the back plate.
- 3.2 Once the dome/lens portion of the light is flush with the post, twist the dome/lens clockwise until it locks into place.
- 3.3 If dark tape was used to cover the photocell on the transformer during installation, remove it for normal operation.



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WIRING HARNESS AND SPLITTERS

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

HARNESS

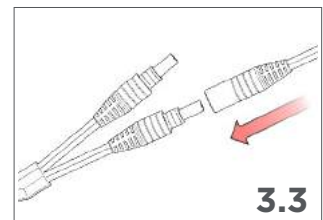
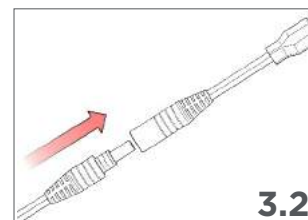
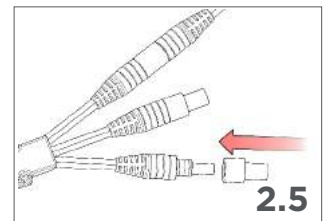
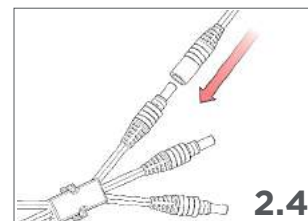
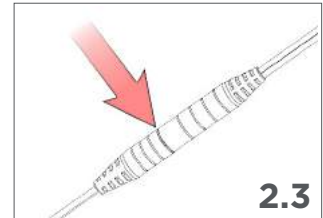
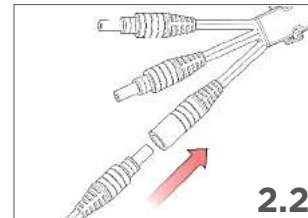
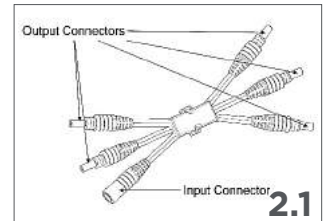
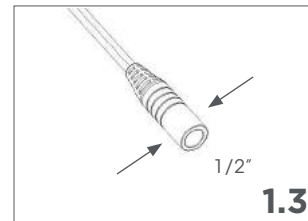
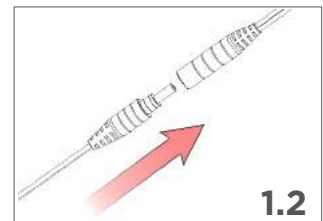
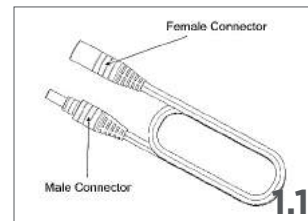
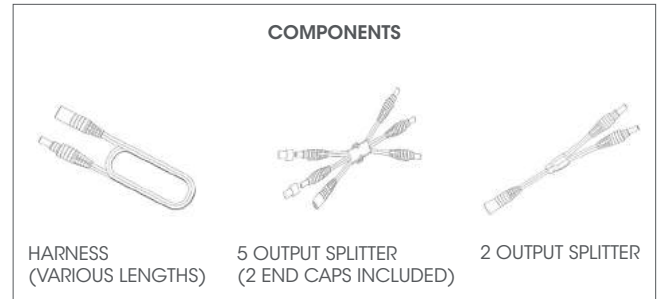
- 1.1 The Harness is used to extend power from the transformer to each individual light or splitter. The Harness has a male and female end.
- 1.2 Harnesses can be plugged into each other to extend length if needed.
- 1.3 The Harness can be run underneath the deck (above ground) and/or inside the post/railing where it is hidden from view.
- 1.4 If needed, the connectors can fit through a 1/2" hole.

5 OUTPUT SPLITTER

- 2.1 The 5 Output Splitter is used to evenly distribute power from 1 input to 5 outputs.
- 2.2 Plug the male connector from a harness into the female input connector of the 5 Output Splitter. Press firmly until the connection is fully engaged.
- 2.3 Connection is fully engaged when there is minimal gap between the male harness connector and the female input connector.
- 2.4 Plug the female connector from a harness or a light into one of the male output connectors. Repeat for each output connector that is needed.
- 2.5 If there are any unused output connectors, an end cap (2 included) must be used to seal the output connector. Any unused end caps can be saved or discarded. If there are more than 2 unused output connectors, a 2 Output Splitter (see below) should be used.
- 2.6 The 5 Output Splitter can be secured using (2) #2 Stainless Steel Screws (not supplied).

2 OUTPUT SPLITTER

- 3.1 The 2 Output Splitter is used to evenly distribute power from 1 input to 2 outputs.
- 3.2 Plug the male connector from a harness into the female input connector of the 2 Output Splitter. Press firmly until the connection is fully engaged. (See Step 2.3)
- 3.3 Plug the female connector from a harness or a light into one of the male output connectors. Repeat for the other output connector.



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

LED FLUSH MOUNT LIGHT

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

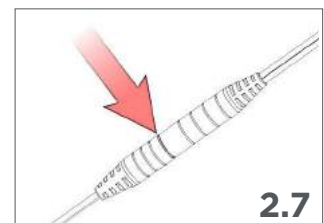
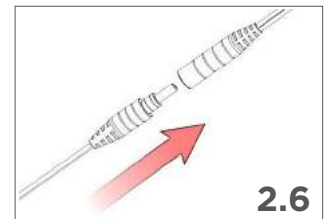
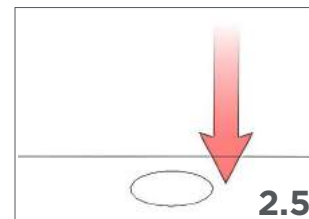
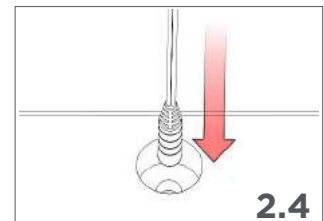
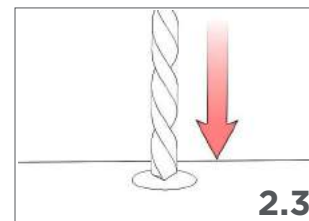
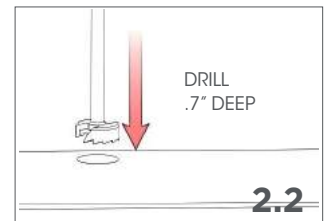
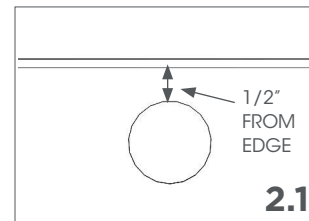
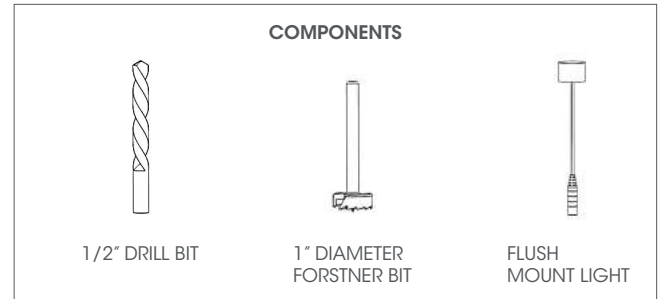
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each post location that will have a light installed.

STEP 2 - DRILL HOLES AND INSTALL LIGHT

- 2.1 Layout the location of the light(s). To prevent splitting, do not install within 1/2" of the edge (1" from center) of the light and the edge the deck board.
- 2.2 Use a 1" Diameter Forstner Bit to bore a flat bottom hole .7" deep into the deck board. NOTE: Do not drill completely through the deck board with this bit.
- 2.3 Drill a 1/2" diameter hole in the center of the hole that was drilled in Step 2.2. Drill completely through the deck board with this bit.
- 2.4 Place the connector and wire attached to the light through the hole that was drilled in Step 2.3.
- 2.5 Gently insert the flush mount light into the hole that was drilled in Step 2.2. The top of the light should sit just below the surface of the deck board. If the light is above the deck surface, remove it and check for debris. If there is no debris, bore the hole slightly deeper with the Forstner Bit (see Step 2.2). If the light is too far below the surface, remove the light and place a small amount of clear exterior silicone caulking in the bottom of the hole and reinsert the light so it is just below the surface of the deck board.
- 2.6 Underneath the deck, plug the male connector of the Harness from Step 1.2 into the female connector attached to the light. Press firmly until the connection is fully engaged.
- 2.7 Connection is fully engaged when there is minimal gap between the male and female connector.
- 2.8 The flush mount light will now be illuminated if the transformer is on and the harness is plugged in.

STEP 3 - FINALIZE INSTALLATION

If dark tape was used to cover the photocell on the transformer during the installation process, remove it for normal operation.



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

LED POST CAP LIGHT

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

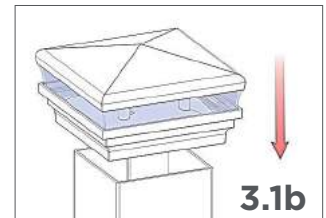
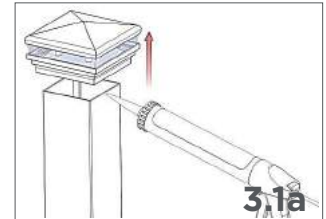
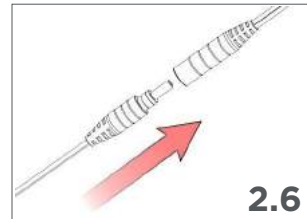
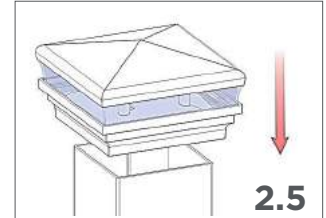
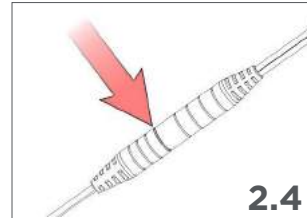
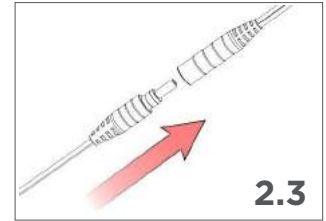
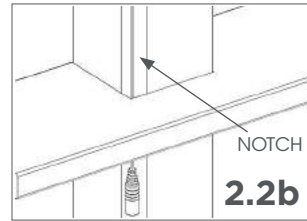
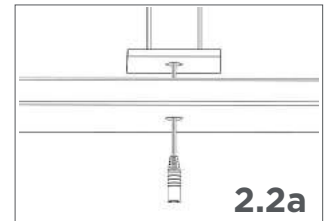
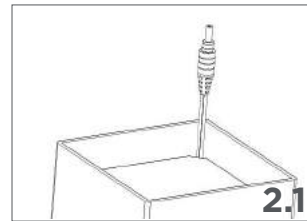
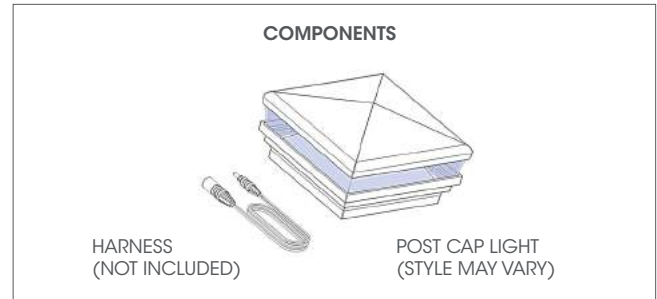
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each location that will have a light installed.

STEP 2 - PREPARE THE POST AND THE POST CAP LIGHT

- 2.1 Run a Harness (not included) down the inside of the post or post wrap with the male connector hanging out the top of the post.
- 2.2 The female harness connector should be hanging out of the bottom under the deck - it will fit through a 1/2" hole if needed. (a) If using a metal post mount, the wire can run down the center of the post mount and through the hole in the center of the post mount. (b) If using a wood post, a small notch can be removed from the corner to allow room for the wire. Ensure that future screws or brackets don't damage the wire.
- 2.3 Plug the male connector from Step 2.1 into the female connector attached to the light. Press firmly until the connection is fully engaged.
- 2.4 Connection is fully engaged when there is minimal gap between the male and female connector.
- 2.5 Carefully align the Post Cap Light and set on top of the post or post wrap. Any extra wire can be coiled up inside the post.
- 2.6 Plug the female harness connector from Step 2.2 into the male harness connector from Step 1.2. The Post Cap Light will now be illuminated if the transformer is on.

STEP 3 - FINALIZE INSTALLATION

- 3.1 Optional) (a) After the light is confirmed working, lift the Post Cap Light from the post and apply clear exterior silicone caulking (not supplied) sparingly on the top four corners of the post. (b) Replace Post Cap Light onto the post.
- 3.2 If dark tape was used to cover the photocell on the transformer during the installation process, remove it for normal operation.



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

LED SIDE LIGHT

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

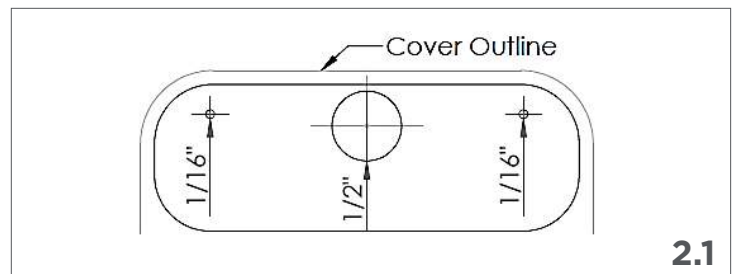
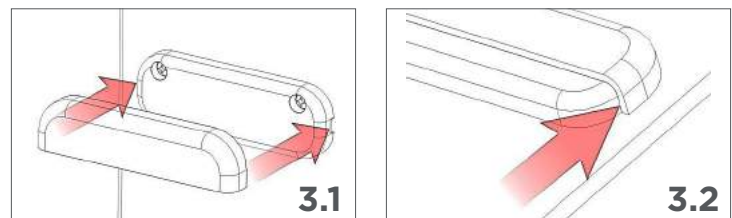
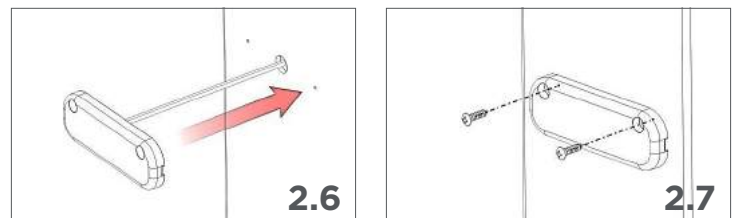
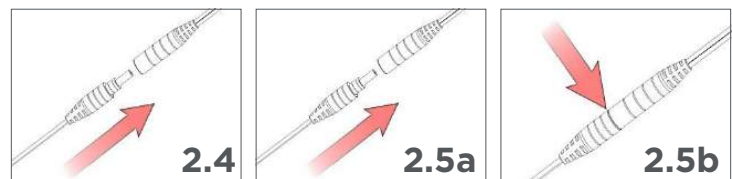
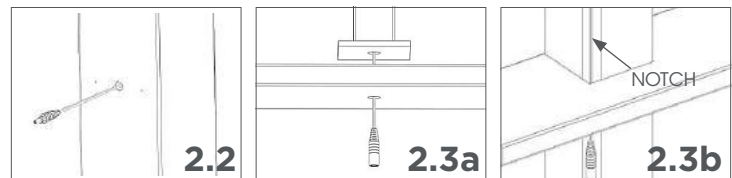
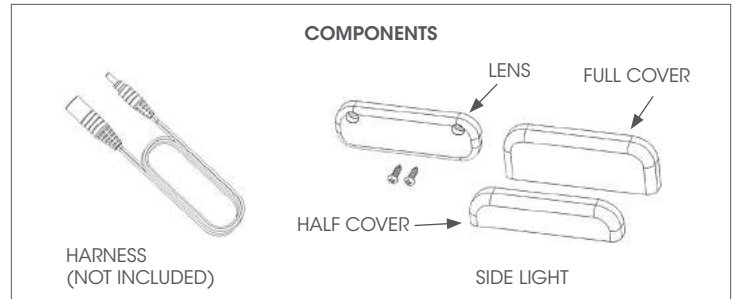
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each location that will have a light installed.

STEP 2 - PREPARE THE POST AND BACK PLATE

- 2.1 Place the template at the desired location and pre-drill two 1/16" holes for screws and one 1/2" hole for the wire.
- 2.2 Run a Harness (not included) down the inside of the post or post wrap with the male connector hanging out of the 1/2" hole that was just drilled.
- 2.3 The female connector should be hanging out of the bottom under the deck - it will fit through a 1/2" hole. (a) If using a metal post mount, run the wire down the center of the post mount and through the center hole. (b) If using a wood post, a small notch can be removed from the corner to allow room for the wire. Ensure that future screws or brackets will not damage the wire.
- 2.4 Plug the female connector (from Step 2.3) into the male connector that is located beneath the post (from Step 1.2).
- 2.5 (a) Plug the male connector (from Step 2.2) into the female connector attached to the lens. (b) Press firmly until the connection is fully engaged. The light should be illuminated if the transformer is on.
- 2.6 Push the wire and connection back through the 1/2" hole until the back of the lens is flush with the post.
- 2.7 Align the pre-drilled holes and use the 2 included stainless steel screws to mount the lens to the post.

STEP 3 - INSTALL LENS COVER AND FINALIZE INSTALLATION

- 3.1 Align the cover with the lens and snap the cover onto the lens. Only one cover will be used per lens (2 are supplied). Each cover will give a different lighting effect. The unused cover can be saved or discarded.
- 3.2 If needed, the cover can be removed by carefully inserting a small flat blade screwdriver near the latch on 1 side and popping off the cover. Care should be taken to not scratch the lens.
- 3.3 If dark tape was used to cover the photocell on the transformer, remove it for normal operation.



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

LED UNDER RAIL STRIP

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- Read all steps below before beginning installation.
- Steps below are for general guidance, various railing designs may require modified installation steps.
- Piece of heat-shrink tubing between LEDs and wires should remain straight. Do not bend or kink.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

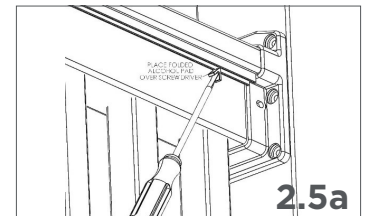
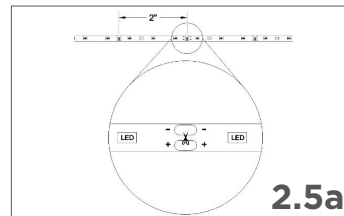
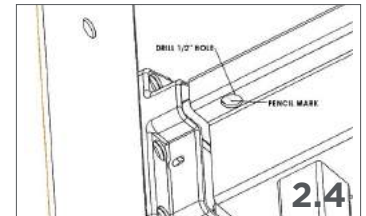
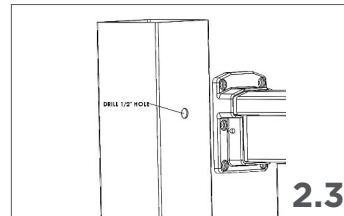
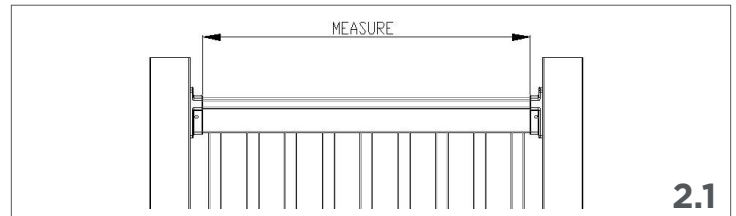
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each location that will have a light installed. Anchor harness in post so weight of harness does not pull on strip light.

STEP 2 - PREPARE THE RAIL

- 2.1 Measure distance between brackets. Cut PVC channel $\frac{1}{4}$ " shorter than measurement using fine tooth saw.
- 2.2 Use pencil to mark bracket location on bottom of rail.
- 2.3 Remove screws from bracket and push rail to the side. Drill $\frac{1}{2}$ " hole in post.
- 2.4 Remove bracket from rail and drill $\frac{1}{2}$ " hole where line was drawn in step 2.2.
- 2.5 Measure and cut LED strip light to required length.
 - Strip can only be cut at designated locations every 2 inches. (See Image 2.5a)
 - If required length does not fall on outline move to the next location making the strip longer.
- 2.6 Reinstall bracket onto rail. Place plug of strip light into rail. Install bracket onto rail. Plug strip light into harness plug in post.
- 2.7 Using supplied alcohol pads clean under side of rail and both surfaces of PVC channel. Do not throw used pads away, they are needed in later step.
- 2.8 Only remove release liner on one side of adhesive. Apply adhesive strip to back of PVC channel.
- 2.9 Remove release liner on back of PVC channel and position on railing. Start at end with hole allowing small gap for strip light to move in the hole. Push firmly on the channel to securely attach to rail.
- 2.10 Starting at end opposite the plug, remove a few inches of release liner from LED strip. Place into the channel and press into place with folded alcohol pad from step 2.7 placed over tip of screwdriver. Continue to remove release liner and slide along with screwdriver pressing into place. The alcohol pad is needed so pressure point from screwdriver does not damage LEDs. When getting close to plug end push any extra strip light into the hole.
- 2.11 Finalize installation by adding a dab of silicone caulk to the end of strip that was cut. The dab can be placed on end of screwdriver and inserted into the channel. This is necessary to protect the exposed circuit of the strip light.

TOOLS AND MATERIALS NEEDED

- | | |
|--|------------------|
| • Drill | • Scissors |
| • $\frac{1}{2}$ " Drill Bit | • Silicone Caulk |
| • $\frac{1}{8}$ " Flat Blade Screwdriver | • Pencil |
| • Fine tooth Saw | • Tape Measure |



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

LED UNDER RAIL

PRE - INSTALLATION NOTES

- Do not cut any wires. Any extra wire length can be coiled up.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

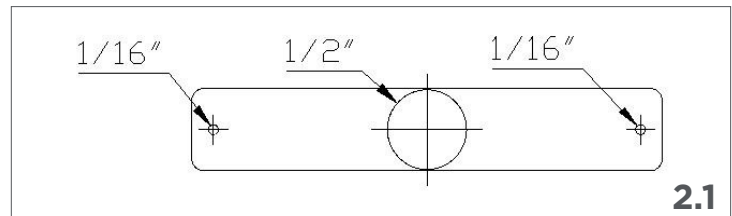
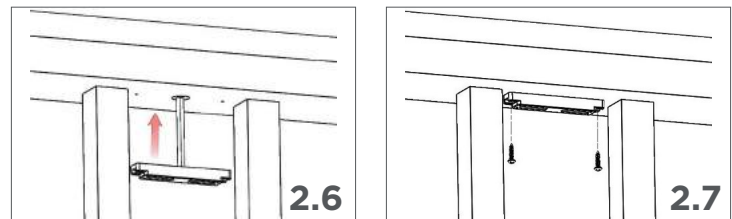
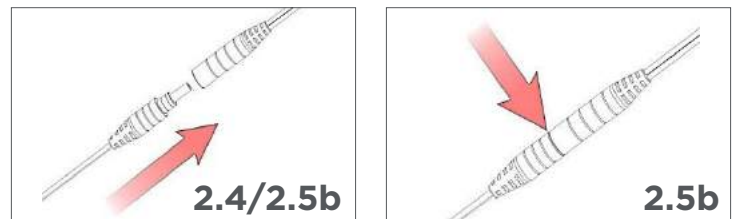
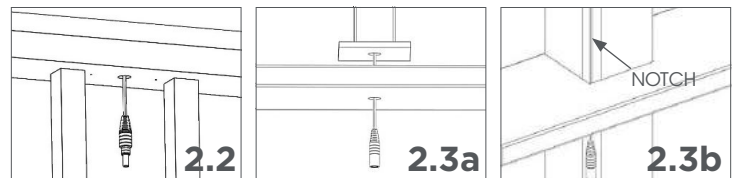
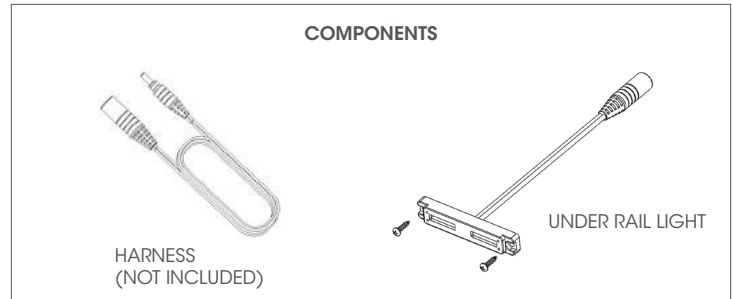
- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each location that will have a light installed.

STEP 2 - PREPARE THE RAIL

- 2.1 Place the template at the desired location and pre-drill two 1/16" holes for screws and one 1/2" hole for the wire.
- 2.2 Run a Harness (not included) down the inside of the rail and into the post or post wrap. Run the wire down the post. The male connector should be hanging out of the 1/2" hole that was just drilled.
- 2.3 The female connector should be hanging out of the bottom under the deck - it will fit through a 1/2" hole. (a) If using a metal post mount, run the wire down the center of the post mount and through the center hole. (b) If using a wood post, a small notch can be removed from the corner to allow room for the wire. Ensure that future screws or brackets will not damage the wire.
- 2.4 Plug the female connector (from Step 2.3) into the male connector that is located beneath the post (from Step 1.2).
- 2.5 (a) Plug the male connector (from Step 2.2) into the female connector attached to the lens. (b) Press firmly until the connection is fully engaged. The light should be illuminated if the transformer is on.
- 2.6 Push the wire and connection back through the 1/2" hole until the back of the light fixture is flush with the railing.
- 2.7 Align the pre-drilled holes and use the 2 included stainless steel screws to mount the light fixture to the railing.

STEP 3 - FINALIZE INSTALLATION

- 3.1 If dark tape was used to cover the photocell on the transformer, remove it for normal operation.



WOLF OUTDOOR LIGHTING

LOW VOLTAGE LED LIGHTING | DECK AND RAIL LIGHTING

INSTALLATION GUIDE

ORNAMENTAL LED SIDE LIGHT

PRE - INSTALLATION NOTES

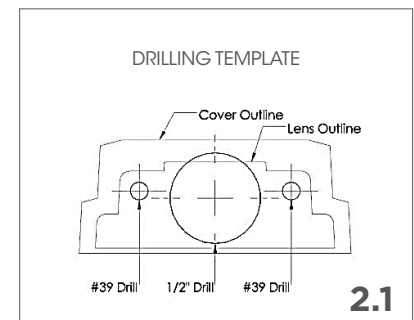
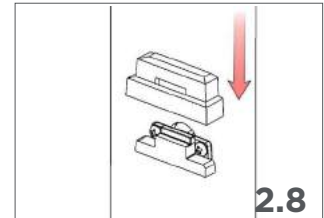
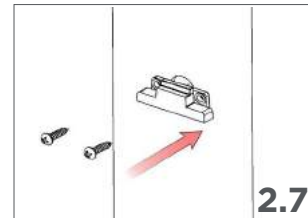
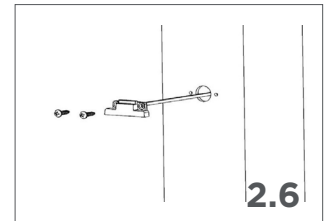
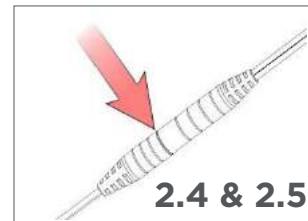
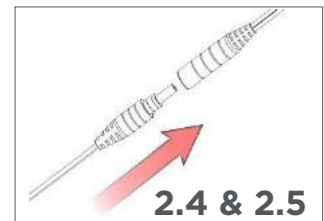
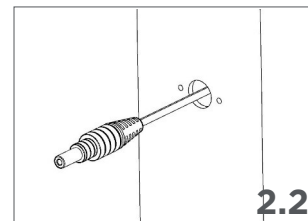
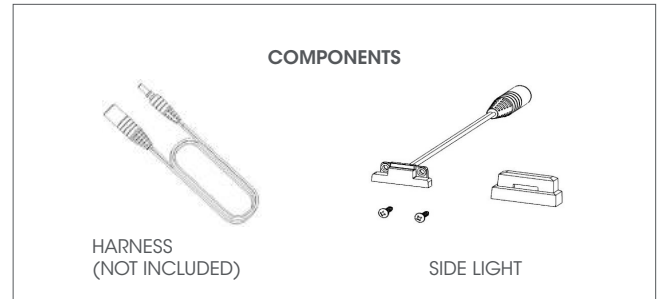
- Do not cut any wires. Any extra wire length can be coiled up.
- Ensure that staples, screws, or brackets will not damage or pinch any of the wires.
- Connections can be made by firmly pushing the male and female connectors together and slightly twisting while pushing.

STEP 1 - PREPARE THE TRANSFORMER AND WIRING HARNESS

- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each location that will have a light installed.

STEP 2 - PREPARE THE POST AND BACK PLATE

- 2.1 Place the template (located at the bottom right of this sheet) at the desired location and pre-drill the two screw holes with a #39 drill bit and one 1/2" hole for the wire and connector to pass through.
- 2.2 Run a Harness (not included) inside the post. The male connector should be coming out of the 1/2" hole.
- 2.3 The female connector should be at the bottom of the post if the wiring will be run at the bottom. Alternatively, the female connector can be ran to the top if the wiring will run inside or under the top rail. Ensure that future screws or brackets will not damage the wire.
- 2.4 Plug the female connector (from Step 2.3) into the male connector that is connected to the transformer. Press firmly while twisting until the connection is fully engaged. There should be little to no gap between the connectors.
- 2.5 Plug the male connector (from Step 2.2) into the female connector attached to the light. Press firmly while twisting until the connection is fully engaged. There should be little to no gap between the connectors. If the transformer is turned on, the light should be illuminated.
- 2.6 Carefully push the wire and connection back through the 1/2" hole until the back of the light is flush with the post.
- 2.7 Align the screws with the pre-drilled holes. With a hand screw driver (power drivers not recommended), tighten the included stainless steel screws to mount the light to the post.
- 2.8 Align the cover above the light and push the cover down onto the lens.





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