

Follow all local and national building codes.

Use a certified electrician for installation or inspection where required by law, regulation, or code.



### DESIGN LAYOUT

Start by determining and marking where each fixture is to be installed. Next, determine the sequence in which the main line will run. The fixtures should run in a sequence and the total wattage of each run should not exceed the transformer's circuit.\*



### TRANSFORMER 1

Using installation instructions provided with the transformer, mount transformer to house and install main power feed line. This should be a UV resistant, UL approved 12-2 low voltage line. Be sure main line is long enough to reach the first lighting fixture.



### TRANSFORMER 2

Drill a 3/8" hole through the deck surface and feed main line through to the underside of deck. Next, run the main wire to your first fixture. Secure the main wire using staples or cable tacks. Tip: For faster installation, prewire the main run before decking is installed!

## REQUIRED SUPPLIES

1/2" Drill      12-2 Low Voltage Wire      3/8" Drill Bit      Phillips Screw Driver  
Wire Tacks      Silicone-Filled Wire Nuts      3" Forstner Bit      Flat Head Screw Driver



### RECESSED 1

Determine where the fixture is to be installed and make a reference mark for the 3" round hole. Tip: Measure from the top of stair tread to bottom, divide this # in half and make a mark. Next, measure from left to right across stair tread and divide in half again. Center hole where the two marks intersect.



### RECESSED 2

Next, carefully drill a 3" hole using a forstner bit or hole saw. Hole must be drilled a minimum of 1-1/4" deep to accept back of box. **WARNING: BE SURE AREA BEING DRILLED IS FREE OF NAILS AND/OR SCREWS.**



### RECESSED 3

Drill a 3/8" hole all the way through the deck in the center of the 3" hole\*. Next, run the fixture wire through the 3/8" hole to the underside of the deck where the wire connections will be made.



### RECESSED 4

Install back box by inserting into 3" hole and screwing through two slots in back of box or through two slots in the side of the box. Be sure box is installed straight or face plate will be crooked.



### RECESSED 5

Install face plate using finished provided screw. **WARNING: HAND TIGHTEN FACE PLATE SCREWS UNTIL SCREWS ARE JUST SLIGHTLY SNUG OR GLASS FACE WILL BREAK.**



### RECESSED 6

Cut and snip fixture wire and (2) main wires to comfortable working length and connect with a UL approved silicone wire nut. Be sure at least 1/2" of copper wire is exposed and wire nuts are on securely. Loose connectors can arch causing fixture failure or fire.

\*Total wattage is determined by multiplying # of fixtures x wattage of bulb in fixtures. (10 lights with 1.5 watt bulbs, 10x1.5=15 total watts)

Refer to your specific transformer to determine the circuit's allowable wattage.

\*NOTE: If using rectangular face plates, a 3/8" hole must be drilled to the left and right of the 3" hole to accept the back box tabs. If using square or round face plates, tabs on the outside of 3" back box must be removed with a flat head screw driver. DO NOT drill 3/8" side holes when using square or round face plates.

For technical assistance please call: 1-877-232-3915 or 716-827-3915