OUTDOOR RECESSED LIGHT KIT INSTALLATION INSTRUCTIONS

Apply to:
DOWN LIGHTS: RDLKITOUTxx
STAIR LIGHTS: RSLKITOUTxx

Usage:
These waterproof, weatherproof, salt air resistant LED recessed lights are perfect for decks, steps, stairs, patios, dock lights and marine lighting. You can even embed them in concrete walkways or steps—wherever accent lighting is desired.

Outdoor Recessed Light kit contains:
(4) Recessed LED lights w/ 6’ pigtales
(1) Custom sized (.900) diameter Forstner Bit
(1) Waterproof 12V DC Power Supply
(16) Outdoor UL approved Gel Filled Wire Nuts
(8) Snap On Diffuser Discs
(1) Photo Timer
(1) Installation Instructions

Additional Tools or Items Required:
Outdoor UL approved Wire (18 gauge)*
Power Drill
Measuring Tape
* No wire is supplied in kit but can be purchased through our website

PLAN YOUR INSTALLATION
Sample Wiring Diagram for Recessed Lights

Step 1 Transformer Location
Determine where you will plug in your transformer / power supply. Locate transformer in a location that is accessible in the unlikely event of servicing.

You can have the transformer hooked up to a wall outlet that is switched or hard wire the transformer directly to a switched circuit as long as you leave access to the transformer per electrical code.

Step 2 Wire Requirements and Connections
We recommend using 18 gauge stranded outdoor wire (available at www.de-kor.com) for our products where the total wire run is less than 100’. If wire run will exceed 100’ increase wire gage size to 16 or 14 gage. For making the connections use our gel filled UL approved wire nuts.

Step 3 Location and Orientation of Lights
Choose the location of where the light will be installed.

The best way to determine the location that works for you is to wire and power up one light and under dark conditions try the light at different heights and spacing until the desired affect is achieved.

For stair risers general rule of thumb is 3-5” above the tread and spaced at 18-24” apart.

INSTALLATION AND WIRING

Step 4 Drilling
Drill hole for light using kit Forstner Bit to a minimum depth of 1”.

In the case of material thicker than 1” a secondary smaller (1/4-3/8”) though hole is required for passage of wires (see photo right).

- continued on other side -
Step 5 Assemble lights & light cups
Thread 6' wire pigtail attached to LED light through hole in the bottom of the light cup while gently pushing led into cup.

Step 6 Insert light cups into holes
Thread wires into through hole, using your thumb or a soft-ended tool push assembled light and light cup into hole.

Step 7 STAIR LIGHTS ONLY: Set light angle
To determine orientation of recessed stair lights look at face of LED. The resistor should be up to signify angled down direction of led light beam. Something nifty about the lights is they can be rotated within the hole to give you even further directional capability.

Step 8 Combine pigtail wires and additional wire if needed
Run all red wires together and wire nut together. Run all black wires and wire nut together. Use the 6' pigtail to your advantage by combining as many wires as you can into one wire nut.

Wire all (+) red wires and all -(black wires) in parallel to the transformer. Our wire has white lettering on one wire to designate it as your + wire through the circuit per UL guidelines.

Step 9 Connect Wires to Transformer and Power Up
Connect main bus wires to transformer maintaining polarity in circuit. In other words (+) to all the red LED wires and (-) to all the black wires. Finally, plug your transformer in and lights should light up. If they do not, the problem will be most likely in the wiring.

TROUBLE SHOOTING TIPS:
1. Verify that there is power coming from the transformer. No power no light.
2. If you have power make sure the polarity is correct. Red wires (+) to positive, black wires (-) to negative on transformer.
3. If one of your lights will not light and the others do and you have verified the wiring, take one of the other lighted lights and try it at the same location. If it still doesn’t light then contact customer service at DEKOR.