
# Drop-In Installation


2101 West Central Blvd. Orlando, Fl 32805

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## Before You Start

**WARNING:** *disconnect power before beginning any electrical work, and do not exceed the capacity of the circuit.*

*Make sure all code requirements are fulfilled. If your home theater project is going to require an electrical permit, you will be subject to the local electrical code requirements. Though it's not always easy to tell if your project requires a permit, it is best to consult with your local permitting authority.*

*Electrical codes generally follow the National Electric Code (NEC), which is published by the National Fire Protection Association. The main purpose of the NEC is to prevent hazards to human health and safety from electrical shock, tendency to start or perpetuate a fire, and production of toxic fumes when exposed to fire.*

*Twilight panels are made with "Class A" fiberglass and covered in a "Class A" material and or fabric. Wiring harnesses are made from CL2 and CL3 or higher. If installing in a plenum, installer must supply CL2P, CL3P or CMP, and as always, confirm and conform to local codes before installing.*

## Quick Installation Overview

- Put latex gloves on to keep panels clean when handling
- Orient first panel
- Install Leader Cable
- Turn on power
- Inspect to see that the stars are on
- Drop Panel into metal ceiling grid
- Panel installation complete
- For additional panels rotate and repeat


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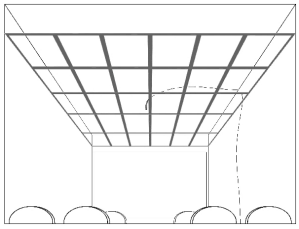
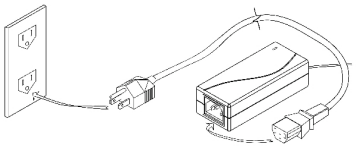
## Running The Power



Based on site conditions and project design, generally you will have two options for power. The first and recommended way is using a Remote Driver and pre-installing an Twilight Leader Cable, or pre-wire an 18 AWG wire. Second is to plug the Driver into a switched outlet located above the ceiling. ***As always, check and observe local building codes.***

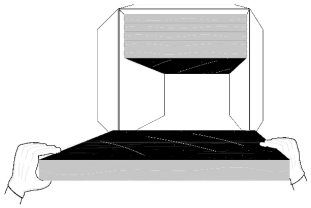
## Connecting The Driver



The selected outlet for powering the Driver should be controlled from a remote switch, or control system. Locate the Driver in a proper area that is accessible and within 30 feet of the first Twilight star ceiling panel (generally in the center of the ceiling.) At this point, connect the twilight Leader Cable and start daisy chaining the panels together, (not to exceed twelve panels) using the supplied Jumper
Cables. Your leader cable should not be longer than 30 feet. Consult with Twilight if a longer leader cable is required.

## Installation Techniques

Use the supplied “powder free” latex gloves when handling, the panels and always use care in protecting the panels finish.

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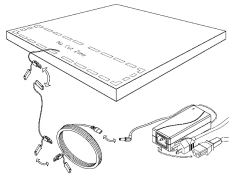
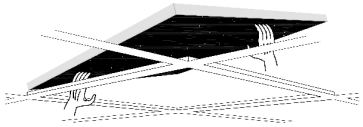
Handle the Panels along the edges as much as possible and keep hands clean to prevent finger marks on the faces of the panels.

## Laying The First Panel



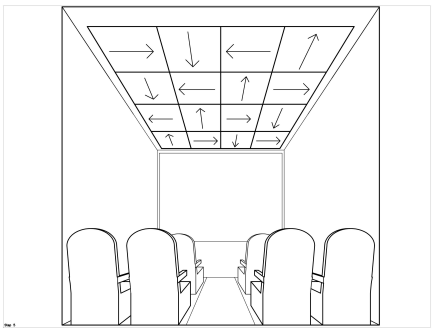
Connect the first panel to the Leader Cable.  Inspect the front of the panel to see that the stars are illuminated.



Rest the Drop In Panels into position by tilting them slightly, lifting them above the framework and letting them fall into place.

When positioning the first panel, it is recommended to start from the center and work your way to the walls.

## Rotate The Panels



Each panel is marked with an arrow on the back.  This arrow indicates the panels orientation.  Every panel gets rotated one quarter turn in order to provide a more random starry night experience.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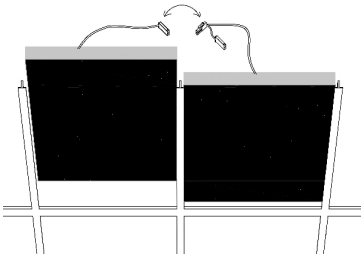
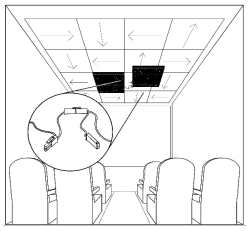
## Installing Additional Panels



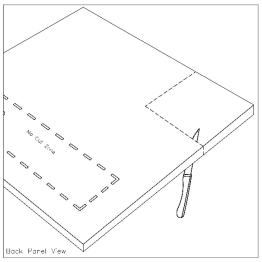
Connect a Jumper Jack to the first panel and connect it to the next panel.  Up to twelve twilight Panels can be connected together in any configuration.  If your installation requires more than twelve twilight Panels, then add an additional Driver and Leader Cable. **Note:** Do not exceed the capacity of the switched circuit.



*Remember to rotate panels 90° for random effect*

## How To Cut A Drop-In Panel

**Caution: Each Twilight Panel has a "No Cut Out Zone," if nessasary, rotate the panel in order to avoid the "No Cut Zone."**



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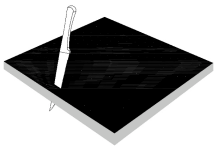
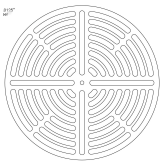
Sometimes cuts will need to occur to the panels in order to accommodate down lights, vents, sprinkler heads, speakers, etc. This process is easy. Always make any cuts on the face of the panel first in order to keep the proper orientation. Panels are made of fiberglass and a painted face making them easy to cut. Avoid the “No Cut Zone” by rotating the panel.



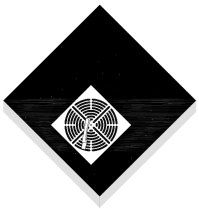
If necessary, cut border with knife. Make sure to cut the Drop In Panel from the face side along the marked lines. Make sure to make your cuts straight up and down and not at an angle.

## How To Use The Cut-Out Template



This template is a universal marking guide and cut-out stencil used for marking the center of a down-light, vent, speaker, or any hole that needs to be marked and cut in an Twilight Panel.

Secure the large thumbtack in the center of the Cut-Out Templet using double sided tape. Then use double sided tape, or thumbtacks, to hold the template centered on the ceiling over the opening, or area you need to cut out. Properly aline the panel and push it up into the thumbtack(s).

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Take the panel down, note the location of the thumb tack mark on the back of the panel. From the backside, insert the awl all the way through so it marks the fabric front of the panel. Mark the location of the hole on the black face of the panel. Now flip the panel over so it is black face side up. Place the template centered over the hole and insert the awl. Now you have the template such that it rotates around the awl. Note the circumference of the hole that is required (this hole should be slightly larger than what is required for the fixture opening, but smaller than the fixtures trim ring.) Place marker in the appropriate slot on the template, and slowly rotate the marker and template all the way around. Remove the awl, and template, and use the serrated knife to cut the two inches of insulation. Your perfectly located hole is done.

**Now turn on the switch and gaze at the stars, Relax and Enjoy!**


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