WieDaMark

Fiber Optic Star Lighting Systems

STAR PANEL INSTALLATION MANUAL

V-12-19

WieDaMark

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Congratulations on your purchase of your new star panel system!

PACKAGE CONTENTS

In this kit you will find the following:

- Acoustical fiber optic panels
- Mounting anchors
- Epic Link
- RJ45 Quick Connect Cables
- Hex Tool
- Poker Tool
- 12V Power Supply
- Spacers*

Some installers use spacers for standard installation requiring more room for wires.
Note: Sometimes there will be more than one lead wire and sometimes the wire(s) will already be attached to the power supply.

WHAT YOU WILL NEED

For a smooth installation we highly recommend the following:

- Chalk line reel
- Painters tape or a light adhesive masking tape
- Sharp X-acto Knife or box cutter
- 3M Adhesive spray
- Ladder
- A work buddy

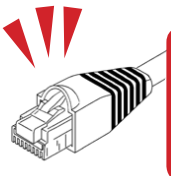
4016 Harry Hines Blvd • Dallas, Texas 75219 • Phone Number: 800.893.9787
www.Wiedamark.com

POWER SPECIFICATIONS

Power Supply:	Number of Panels
▪ 25W	10 Panels
▪ 45W	18 Panels
▪ 60W	24 Panels
▪ 100W	40 Panels

Power Supply:	Number of Panels
▪ 150W	60 Panels
▪ 200W	80 Panels
▪ 250W	100 Panels
▪ 300W	120 Panels

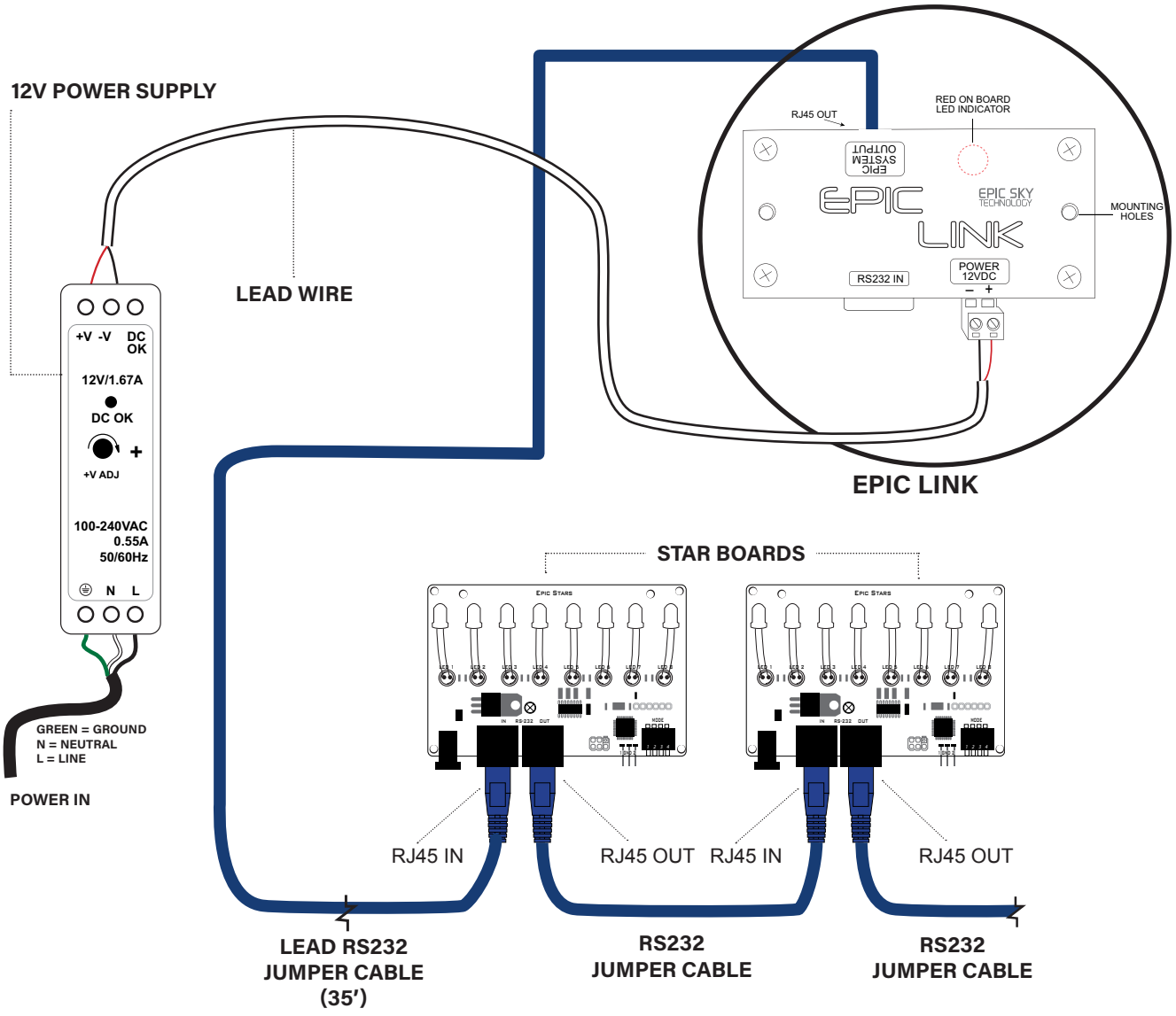
Note: If you have more than 120 panels, please contact our customer service department.
! WEAR LATEX GLOVES TO KEEP PANELS CLEAN WHILE HANDLING!



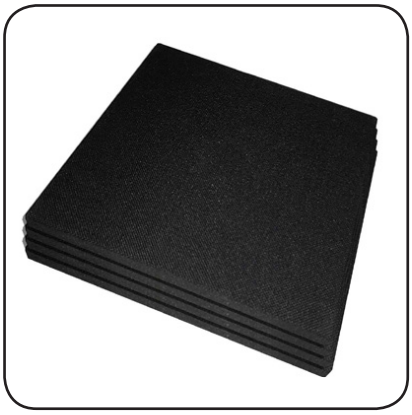
OUR EASY PLUG AND PLAY SYSTEM MAKES INSTALLATION A SNAP!

PLUG AND PLAY COMPONENTS

Leave the lead wire from the EPIC LINK hanging off the side of the first panel so you can connect the next panel. The flat design of the Epic Link and power supply allows for you to be able to "sandwich" them between the ceiling and surface mount panels if using spacers. White gaffers tape, glue dots, or double sided tape are helpful in organizing RJ45 Cables during installation. Typically power supply and power Epic Link will be installed above the ceiling.



PACKAGE CONTENTS



ACOUSTICAL FIBER OPTIC PANELS

MOUNTING ANCHORS

HEX TOOL

POKER TOOL

SPACERS

RJ45 QUICK CONNECT CABLES

12V POWER SUPPLY

EPIC LINK

WIRING DIAGRAM

Up to 12 panels can be connected together in any configuration per lead wire. If your installation requires more than 12 panels, you will need an additional lead jumper wire and may need to add an additional Power Supply.
See PAGE 1 Power Specifications.

CONFIGURATION WITH POWER ADAPTER

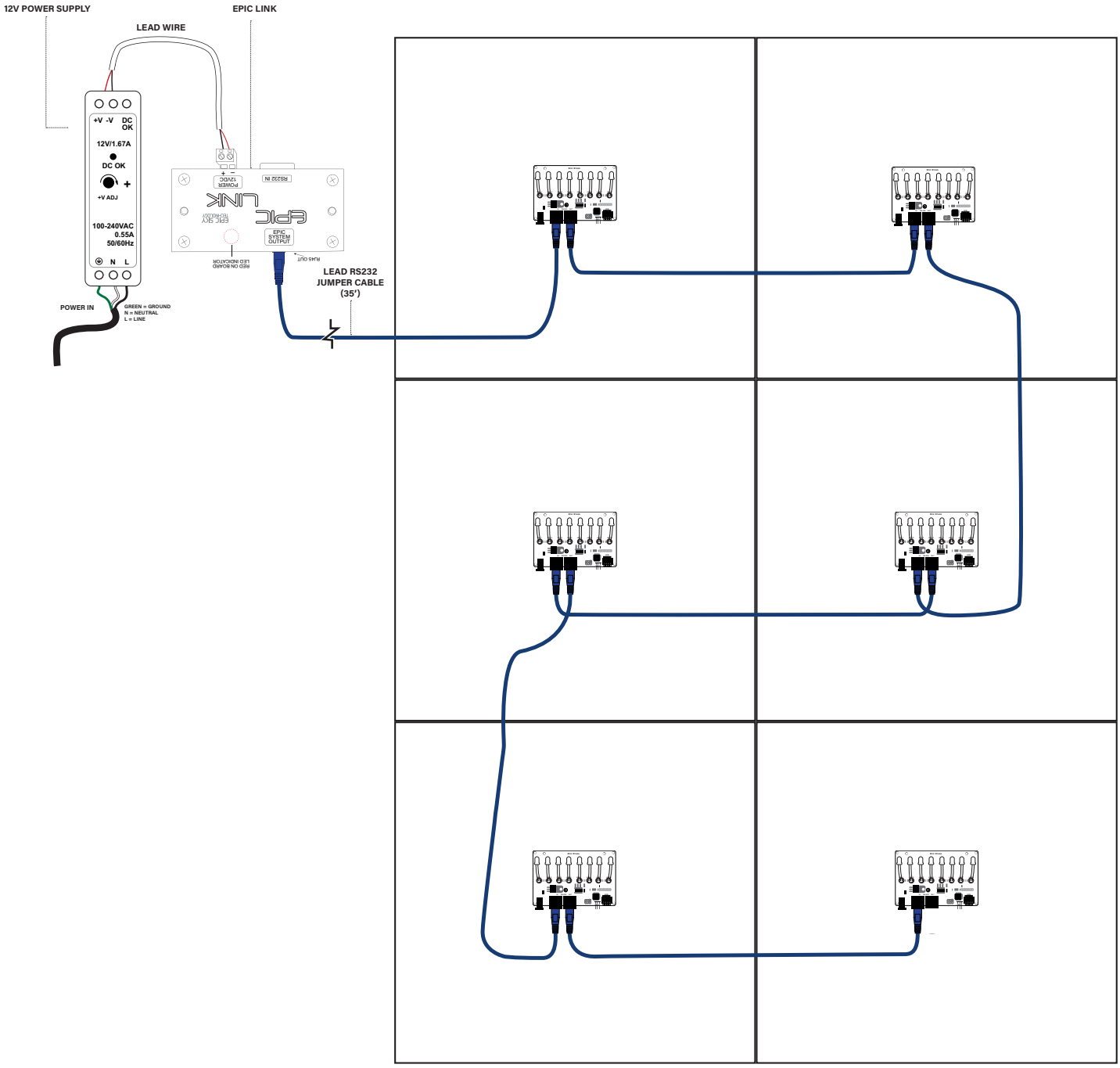
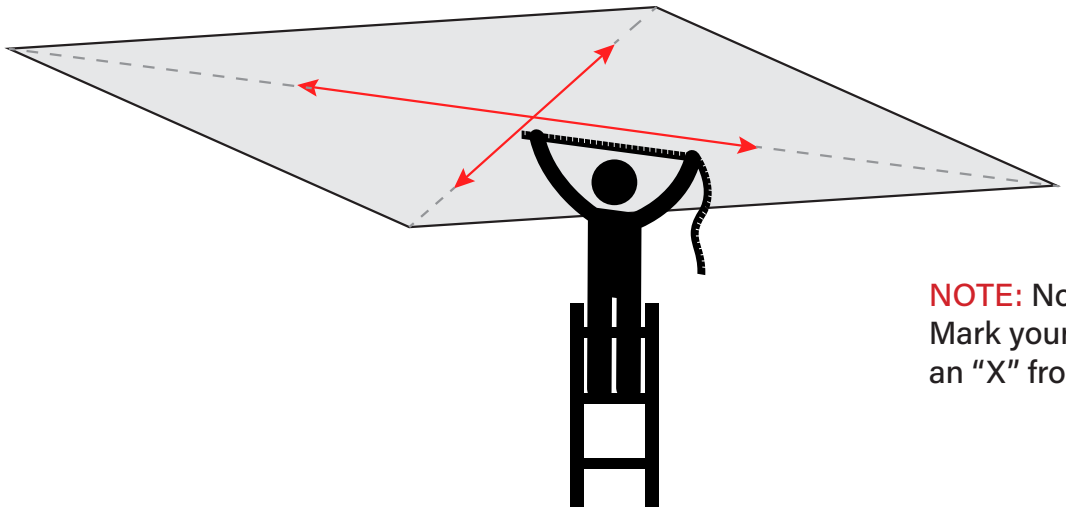


DIAGRAM BELOW IS AN EXAMPLE WIRING DIAGRAM FOR A BASIC STAR PANEL CONFIGURATION. ELEMENTS SHOWN ARE NOT TO SCALE.

INSTALLATION STEPS FOR SURFACE MOUNT

THE MOST IMPORTANT STEP INSTALLING YOUR STAR CEILING PANELS IS STARTING FROM THE CENTER OF YOUR ROOM AND WORKING OUT.

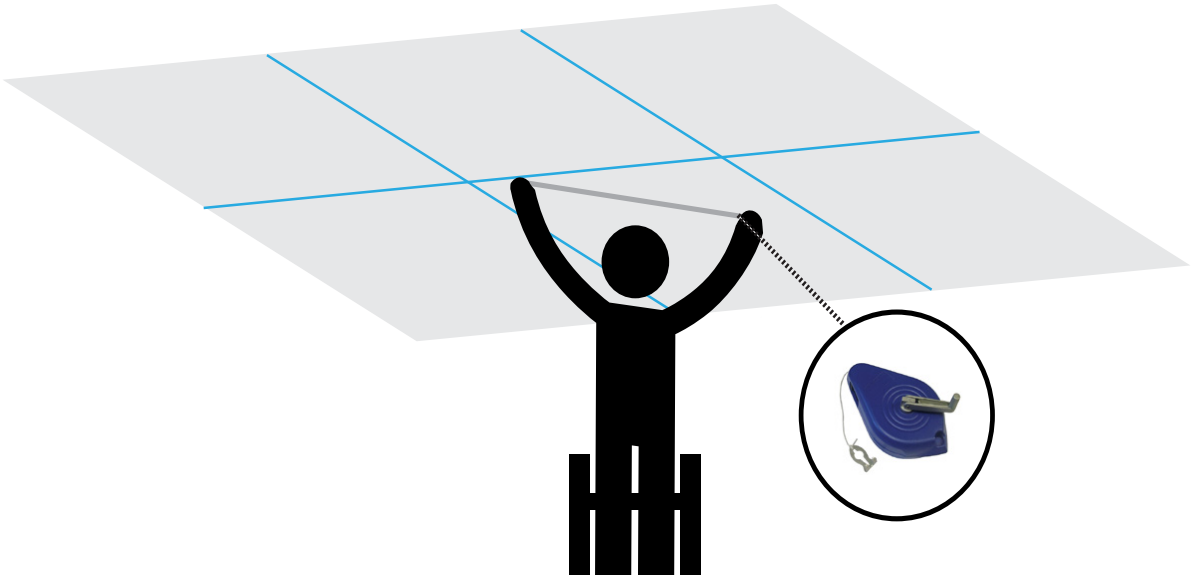
1 Find the center of the room by marking out an X from corner to corner



NOTE: Not every room is square! Mark your center by marking out an “X” from corner to corner.

EXACT MEASUREMENTS ARE CRITICAL. TAKE YOUR TIME. USE A CHALK LINE FOR MARKING.

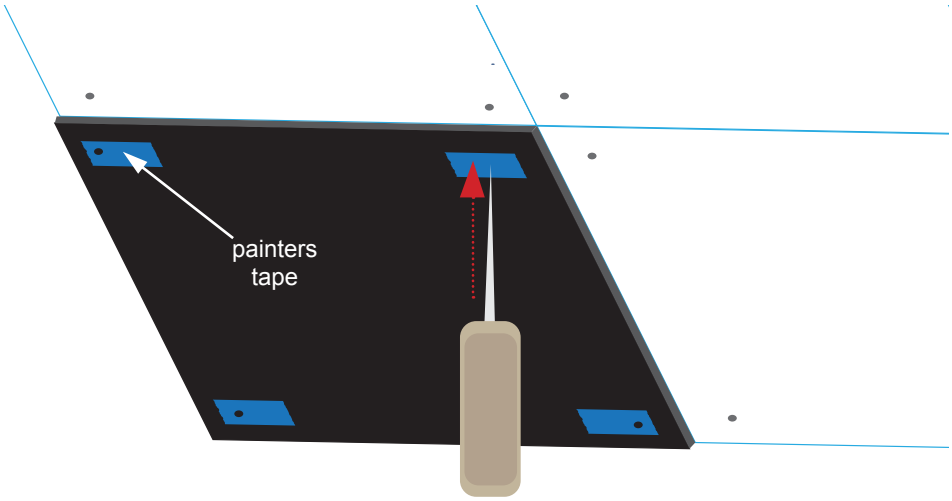
2 Measure out a panel grid from the center out using a chalk line for guides. Your grid will correspond to the size panels you ordered. 24” x 24” or 24 x 48”



INSTALLATION STEPS FOR SURFACE MOUNT

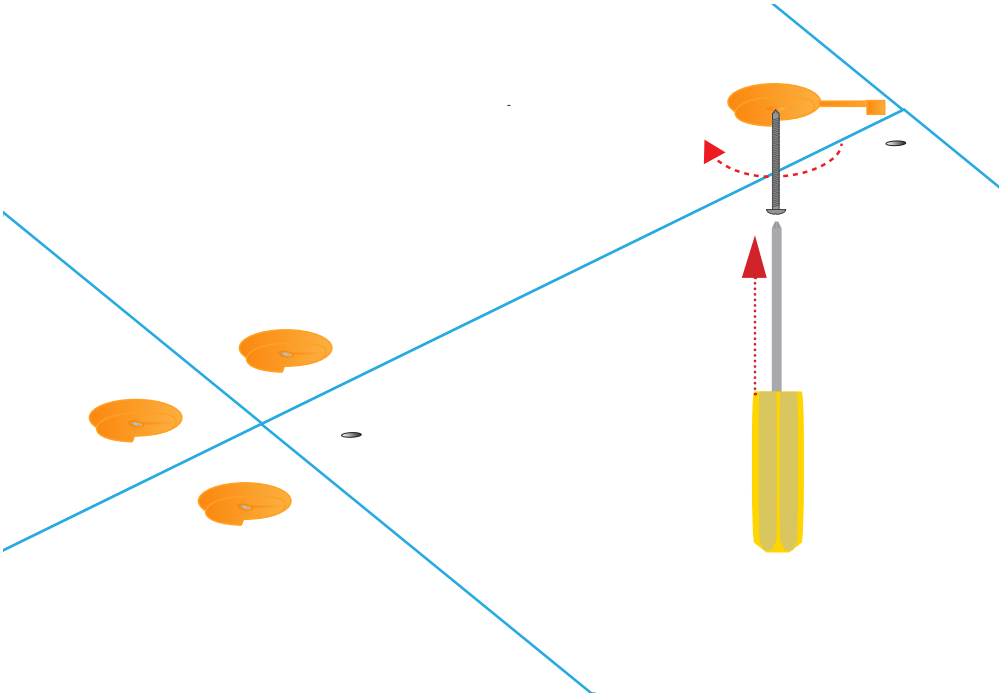
HELPFUL HINT: Before poking a hole with the Poker tool, **place a piece of painters tape on the inside corners of each panel front.** This way you can see where you have poked your hole when it comes time to screw in your roto fasteners

3 Hold up your first panel to the chalk line, and using the poker tool provided, poke a hole through each corner of the panel and into the ceiling.

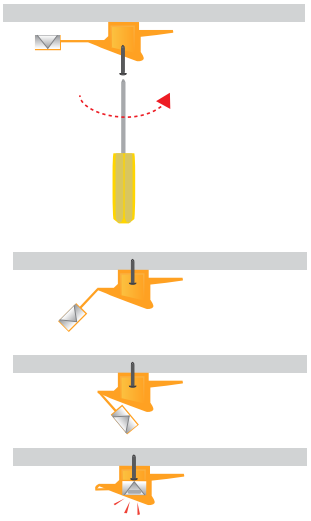


NOTE: poke holes approximately 4" in from each panel corner.

4 Screw in Roto Fasteners into the ceiling where you poked the

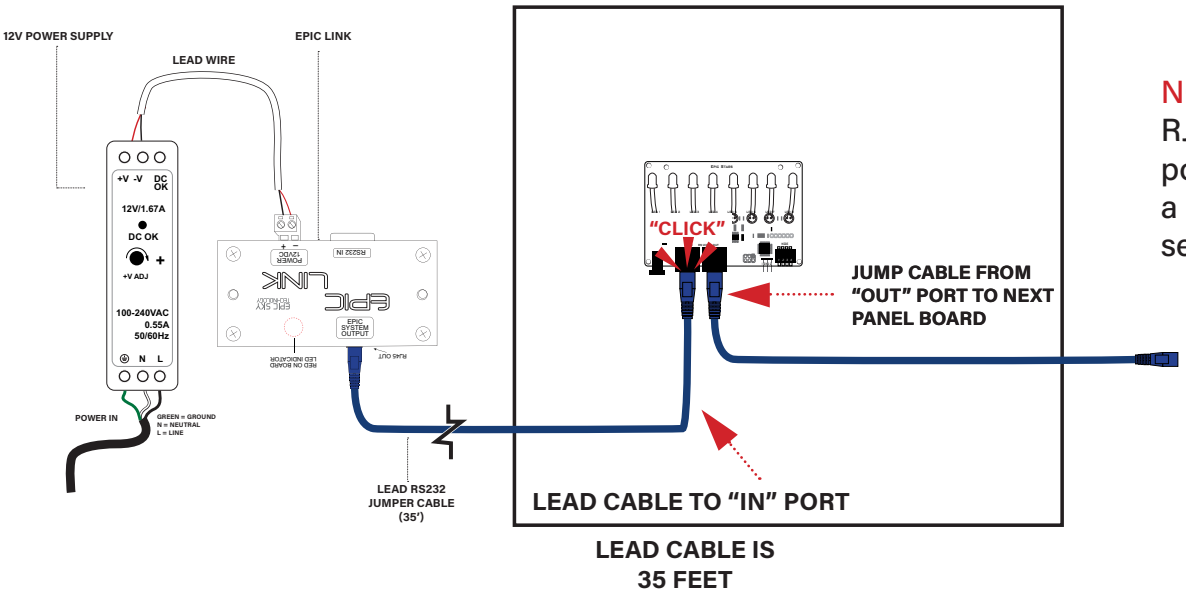


NOTE: When Rotofast is securely screwed into the ceiling, snap the attached hex cover into place.



INSTALLATION STEPS FOR SURFACE MOUNT

5 Connect the lead RS232 jumper cable coming from the Epic Link to the starboard. Make sure the RJ45 connector is placed into the IN port first panel you are installing. Connect your shorter jump wire into the OUT port that will lead to the IN port of your next panel to be placed. Refer to wiring diagram on page 3 for connection instructions.



NOTE: Firmly place RJ45 connector in the port. Your should feel a 'click' indicating a secure connection

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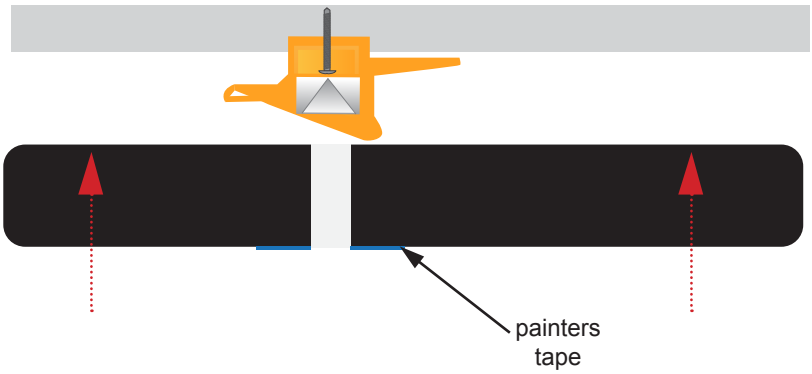
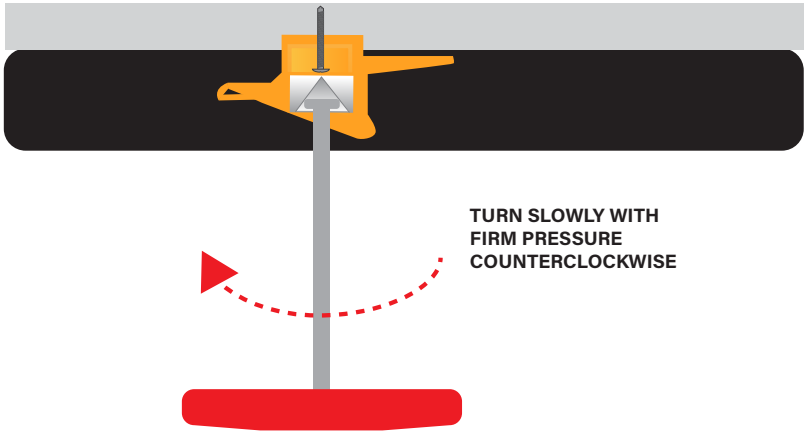
6 Place Star Panel back up to template and line up holes to installed Rotofast anchors. This is where you want a partner to help hold and line up panels.



NOTE: If you used painters tape to mark your holes lining up your star panels to anchors will be easy!

INSTALLATION STEPS FOR SURFACE MOUNT

7 Screw in Rotofast anchors into the ceiling using HEX tool to push and tighten ***counterclockwise. Use gentle pressure and slow turns with the HEX tool.*** It may take a few turns to engage the fastener. A firm connection is desired but it is very important to not over tighten rotofast.



NOTE: DO NOT OVER TIGHTEN ROTOFAST ANCHOR.

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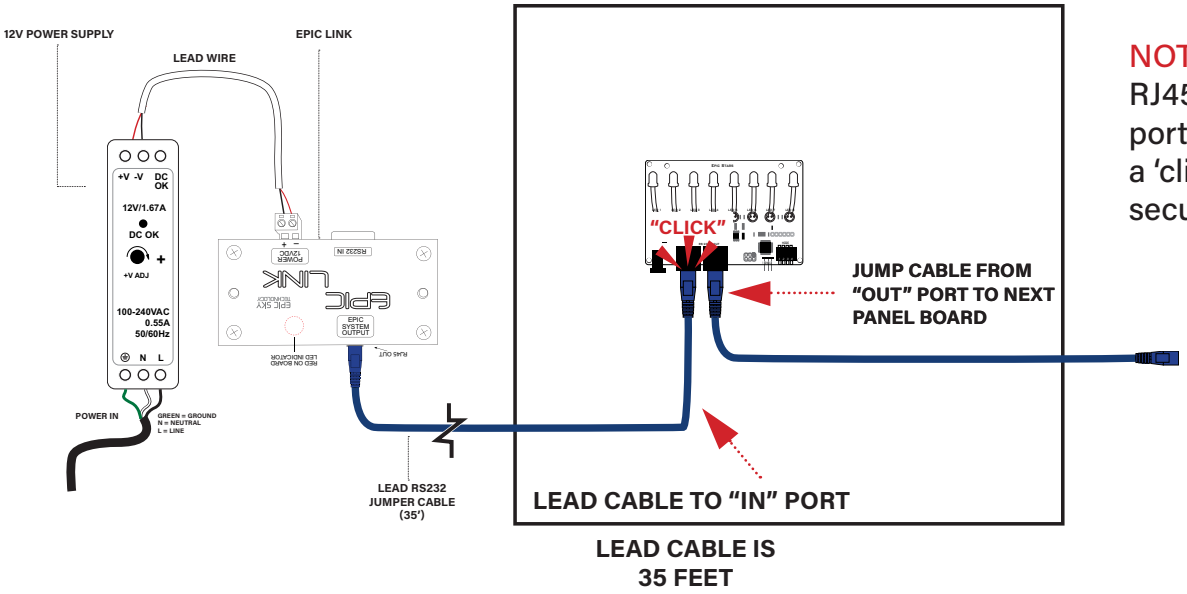
8 Repeat process, installing your next panel and connecting your jump wires into the correct IN and OUT ports. Make sure to use gentle pressure and that each panel is level and flush to adjoining panels for a smooth overall surface

NOTE: Remember to work from inside out.

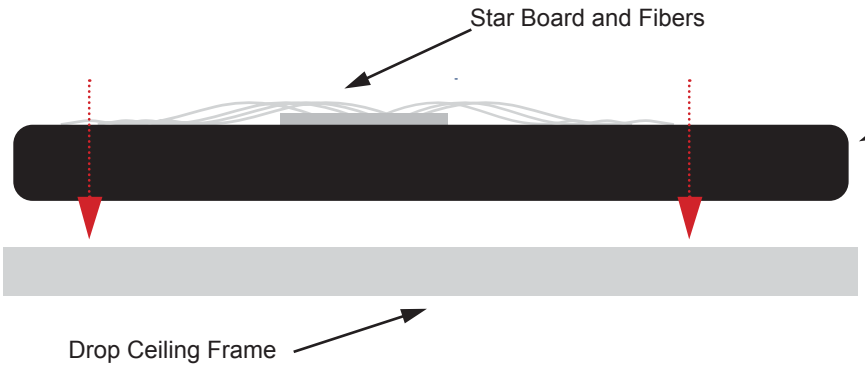
INSTALLATION STEPS FOR DROP CEILING

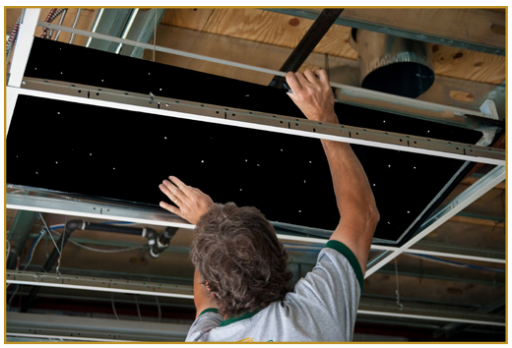
1 Connect the lead wire coming from the Epic Link to the starboard. Make sure the RJ45 connector is placed into the IN port first panel you are installing. Connect your shorter jump wire into the OUT port that will lead to the IN port of your next panel to be placed. Refer to wiring diagram on page 3 for connection instructions.



NOTE: Firmly place RJ45 connector in the port. Your should feel a 'click' indicating a secure connection

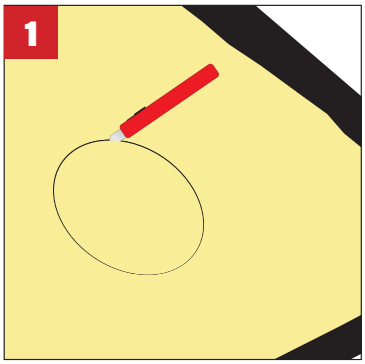
2 Insert Star Panel into drop ceiling frame.



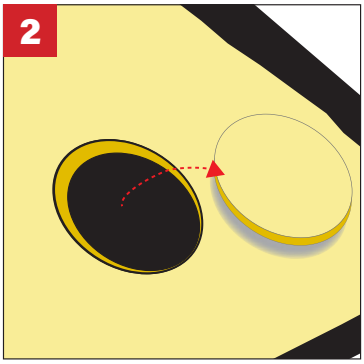


CUSTOM CUTTING

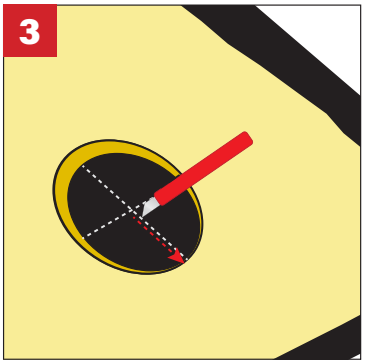
NOTE: Always cut on a flat surface. Spare cardboard works great. Make sure your knife is sharp so you don't tear or pull the fabric



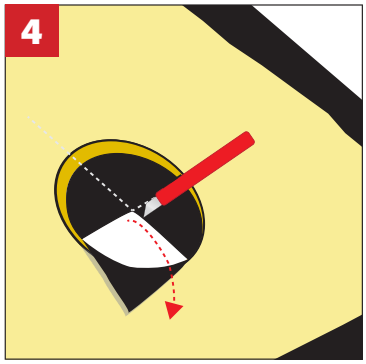
To field cut star panels for protruding objects such as drop beams, canned lights, or air conditioning vents, mark the location of the protrusion on the upper (unfinished) side of the panel. Use a sharp NON-SERRATED knife or box cutter. Cut the desired shape down through the fiberglass but NOT THROUGH THE FABRIC. Set your knife blade. Take your time!



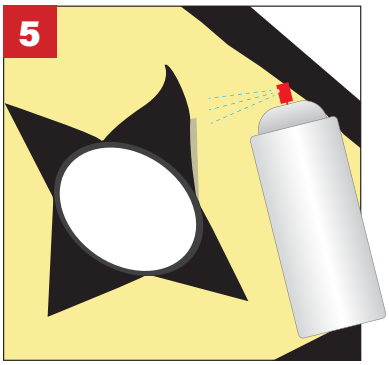
Remove the cut fiberglass piece from the panel.



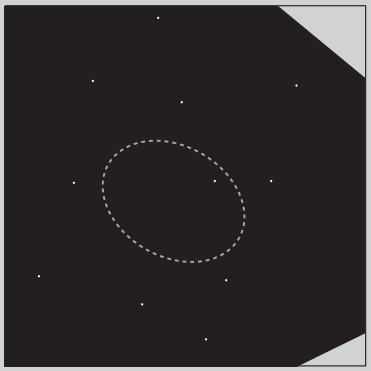
Carefully cut a clean "X" into the center of the fabric.

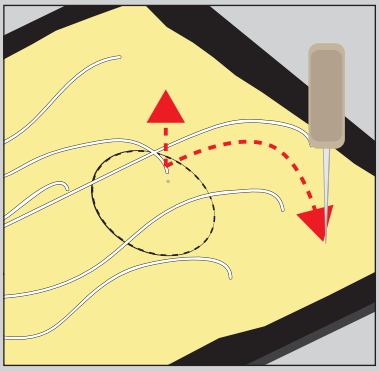


Fold flaps back through the opening.



Spray back of loose flaps with a 3M super 77 spray and press flat to surface

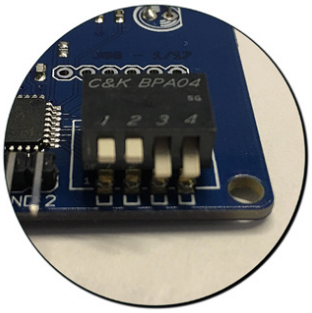




If a fiber or 2 is placed in a location you need to cut out simply cut the fiber, use the poker tool to make another hole in a location you desire, and push fiber through.
(It may not be necessary to do this as each board is populated evenly.)

DIP SWITCH SETTINGS

The EPIC STAR EFFECTS are determined by the dip switches. The dip switch settings allow you to control a variety of effects including sparkle, scintillation, rain, strobe, etc.).



Shooting Star 10 Min Setting Shown Above

MODE	SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4
Night Sky	Up	Up	Up	Up
All on 50%	Down	Up	Up	Up
All On 25%	Up	Down	Up	Up
Meteor Shower	Down	Down	Up	Up
Night Sky 50%	Up	Up	Down	Up
Scintillation	Down	Up	Down	Up
Tropical Winds	Up	Down	Down	Up
Constellation Mode	Down	Down	Down	Up
Shooting Star 10 Sec	Up	Up	Up	Down
Shooting Star 1 Min	Down	Up	Up	Down
Shooting Star 2 Min	Up	Down	Up	Down
Shooting Star 5 Min	Down	Down	Up	Down
Shooting Star 10 Min	Up	Up	Down	Down
Rain Mode	Down	Up	Down	Down
Party (Strobe) Mode	Up	Down	Down	Down
All on 100%	Down	Down	Down	Down
NOTE	Epic Star Boards will read the DIP switch setting on power up. Check that the boards are in the right mode ***before installing*** in a ceiling.			

COMMAND SETTINGS

All commands must be terminated by a carriage return. All commands are repeated out the serial port to pass to the next controller or device. The “E“ symbol means that those command values are stored in EEPROM and will load on power up.

COMMAND	ACTION	NOTES
ess	Night Sky	Night Sky in 3D perspective
ess1	Night Sky 50%	Night Sky in 3D perspective at 50% brightness
es2	Scintillation	Scintillation
es3	Tropical Winds	Tropical Winds - Fast Sparkle
esr	Rain Shower	Stars in Rain Shower mode
est	Party Mode	Stars all on with strobe/fade out pattern
esldxxx *E	Stars on Solid	xxx is the level, 1 - 255, 255 is the brightest
ecn	Constellations on Solid	All LED’s on solid - separate than star commands
ecsp	Constellation Sparkle	Constellations sparkle
eco	Constellation Off	Only Constellations turn off
eclvxxx *E	Constellation Solid Level	xxx is the level, 1 - 255, 255 is the brightest
!	Trigger Shooting Star	Immediately trigger shooting star
ssj	Shooting Star 10 Seconds	Shooting Star every 10 seconds, Adjustable via RS-232
ss1	Shooting Star 1 Minute	Shooting Star every minute
ss2	Shooting Star 2 Minutes	Shooting Star every 2 minutes
ss5	Shooting Star 5 Minutes	Shooting Star every 5 minutes
ssz	Shooting Star 10 Minutes	Shooting Star every 10 minutes
sso	Shooting Star Off	Boards in shooting star mode will turn off
ssg	Shooting Star On	Shooting star on
mso	Meteor Shower On	Meteor Shower mode (DIP switches must be set correctly) Default rate is every 2 minutes
msf	Meteor Shower Off	Stops the meteor shower
ssd	Power on Setting	Return to Power on DIP Switch Setting
esdmxxx *E	Dim Setting (stars only)	Brightness level of stars, 1 to 255, Default is 255 (brightest)
espkxxx *E	Star Sparkle Speed	Sparkle Speed, 0 - 255, default is 17, the higher the number, the slower the sparkle
mtspxxx *E	Meteor Shower Speed	xxx is the The Speed of the Meteors in the Shower, 0 - 255, Default is 50 (higher is slower)
mttmxxx *E	Time Between Meteors	Time in 1/10’s of a second between each meteor in the shower (0-255) default is 7
mtinxxx *E	Meteor Shower Interval	Time in seconds between meteor showers (0-255) default is 120
mtnmxxx *E	Meteor Number	Number of meteors per shower (1-255) default is 19
ssspxxx *E	Shooting Star Speed	xxx = 0 (fastest) to 254 (slowest), default is 40
sstmxxx *E	Shooting Star Interval	Interval Between Shooting Stars in seconds, 0 - 255, Default is 10
eso	Stars Off	All Stars Off
esn	Stars On	Turns on the stars in the last mode they were in
globaloff	All Off	All Stars off, regardless of mode
NOTE:	The Epic Star Boards will read the DIP switch setting on power up, check that the boards are in the right mode before installing in a ceiling.	