Star Ceiling Panel
Installation Manual

CinemaShop® Toll Free 1-866-243-1001

CineST★rPanel ™

CineStarPanel™

Fiber Optic Star Lighting Systems

Your star panel order should include the following:

· Acoustic fiber optic panels
· Rotofast anchors
· Low voltage jumper cables
· Lead wire(s)
· Hex tools – poker tool
· 12V power supply
· Spacers (optional—Used mostly when back lighting the panels with LED strips to create a halo effect on ceiling or wall)*

* 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.

POWER SPECIFICATIONS:

Each panel draws 12V and 2.5W, or 0.2 amps max.

Note: Some panels will come with a shooting star which contains two (2) Star Panel Board light sources and will increase the panel power another 2.5W, for a total of 5W.

POWER SPECIFICATION FOR STAR PANEL

POWER SUPPLY:	NUMBER OF PANELS
· 25W	10 panels
· 45W	18 panels
· 60W	24 panels
· 80W	32 panels
· 100W	40 panels
· 150W	60 panels
· 200 W	80 panels
· 250W	100 panels
· 300W	120 panels

*If you have more than 120 panels, please contact our customer service department.

* *Wear latex gloves to keep panels clean when handling.*

Square up the room. A room may look square, but that doesn't mean it is square. Measure twice since all the panels are aligned off of the first panel. Its alignment in the room is critical. Being just a little out of square with the first panel could result in being way out of square when you get to the end of the room. Take your time squaring up the first panel. Using masking tape, pencil marks, and chalk lines will assist you in keeping the installation square and true. Locate where your first panel will be installed.

RUNNING THE POWER:

Connect or run the power by using one of the two options. The choices are to place the power supply in a remote location or to place it embedded within the panel space. The remote power supply option is the preferred option due to avoiding running power cables within spaces that typically requires an electrician.

TIP: After you finish running the power and lead wires run, test every panel before it goes up by plugging lead wire to the LED board located in the center of the panel.

OPTION 1: REMOTE POWER SUPPLY (RECOMMENDED METHOD)

Our power supply has connectors for a power cable for the input of the line voltage. The selected outlet for powering our power supply should be controlled from a remote switched outlet, or an outlet switched by your control system. Locate our power supply in a proper equipment area that is accessible and within 50 feet of the first star panel (generally in the center of the ceiling). At this point, connect the Star Panel Leader Cable and start daisy chaining the panels together using the supplied Jumper Cables. Your leader cable should not be longer than 50 feet. Consult with a Star Panel manufacturer if a longer leader cable is required. If you need to prewire for the power lead, pull a 2-conductor speaker wire from where you will plug in our power supply to the middle of where one of the panels will be located.
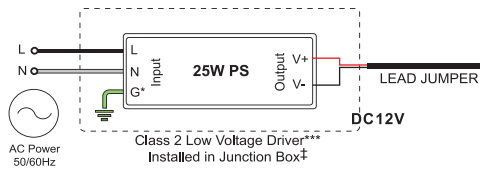
OPTION2: EMBEDDED POWER SUPPLY

Only a licensed electrician should embed the power supply into the ceiling. It may be necessary to install a power supply into an approved electrical enclosure where the line voltage is already located in the ceiling and running new low voltage wire is not an option. This may be more common in existing older homes and retro fits. The power supply is a line voltage device and will require access to it (according to most electrical codes); therefore, a cut out in the panel will be required to access the power supply. Use the Cut Out Kit (optional) to mark and cut the panel. (Check and observe local building codes.) *TIP: After you finish installation of the power supply and lead wire run, test every panel before it goes up by plugging lead wire to LED board located in the center of the panel.*

MOUNTING THE FIRST PANEL IN A DROP CEILING APPLICATION (2' X 2' OR 2' X 4' CEILING GRIDS)

TIP: You can use a paint brush extension (available at most hardware stores) to hold the panel in place.

Rest the Drop in Panels into position by tilting them slightly and lifting them above the framework then letting them fall into place. When positioning the first panel, it is reccommended to start from the center and work your way to the walls.

STAR PANEL WIRING

L ○———
N ○———

| Input | **25W PS** | Output | V+ |
| | | | V- |

L
N
G*

AC Power
50/60Hz

DC12V

LEAD JUMPER

Class 2 Low Voltage Driver***
Installed in Junction Box‡
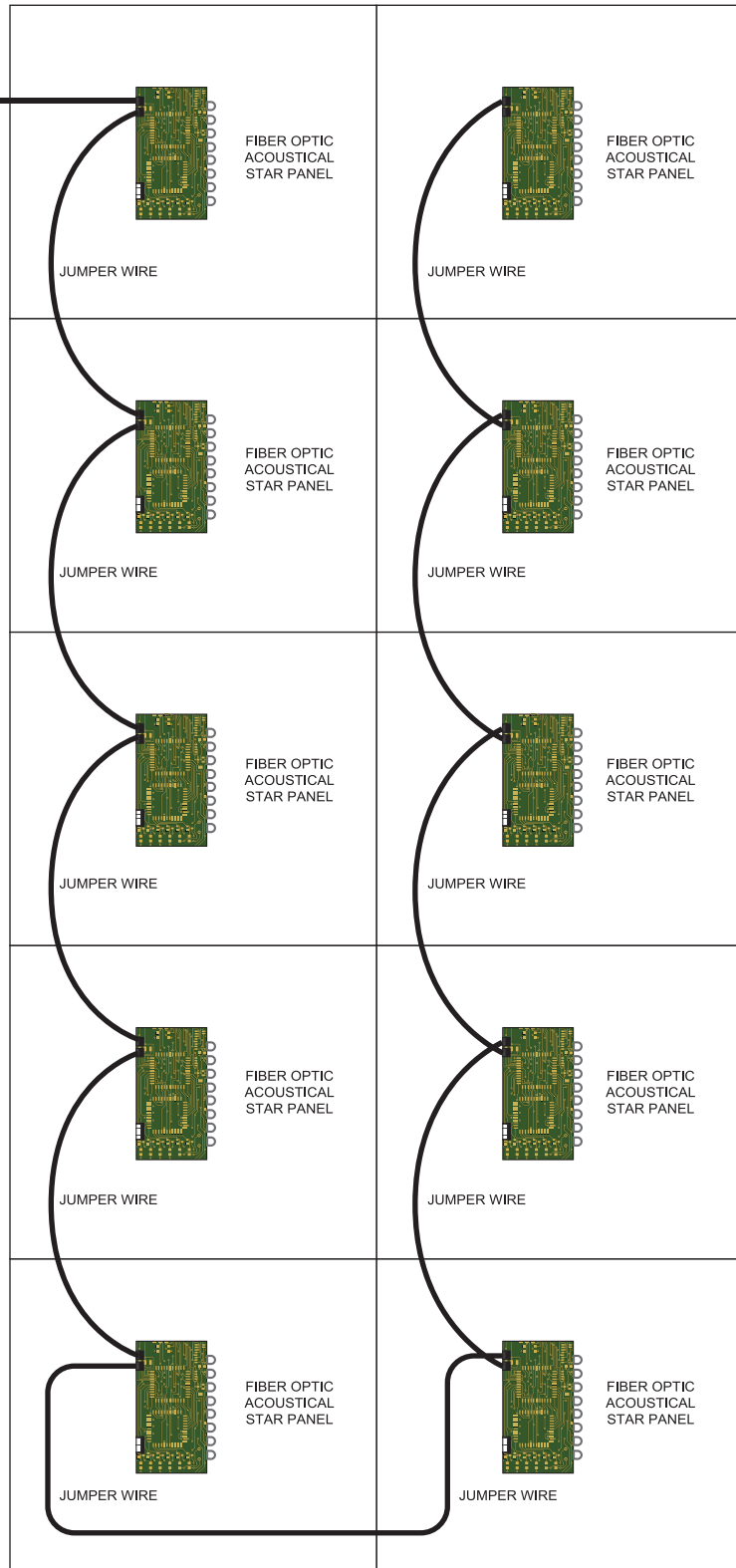
EXAMPLE OF 25W POWER SUPPLY PANEL WIRING

INSTALLING ADDITIONAL PANELS

Leave the jumper hanging off the side of the first panel so you can connect the next panel. Because of the flat design of the Jumper Cable plugs, you can "sandwich" the Jumper Cables between the ceiling and panel, or run them along the 2" light cove on the back of all Surface Mount Panels. You may find that using white gaffers tape, glue dots, or double sided tape helpful in organizing the Jumper Cables during installation.

Up to 12 Star Panels can be connected together in any configuration per lead wire. If your installation requires more than 12 Star Panels, then add an additional Leader Cable. The total quantity of panels depend on power supply size.

NOTE: See Power Chart on Page 2 for power supply recommendations. Multiple lead wires may be necessary with one power supply (not included in package).

FIBER OPTIC
ACOUSTICAL
STAR PANEL

FIBER OPTIC
ACOUSTICAL
STAR PANEL

JUMPER WIRE

JUMPER WIRE

FIBER OPTIC
ACOUSTICAL
STAR PANEL

FIBER OPTIC
ACOUSTICAL
STAR PANEL

JUMPER WIRE

JUMPER WIRE

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FIBER OPTIC
ACOUSTICAL
STAR PANEL

FIBER OPTIC
ACOUSTICAL
STAR PANEL

JUMPER WIRE

JUMPER WIRE

INSTALLATION STEPS

1. The most important part of installing our star ceiling panels are measuring and snapping the ceiling grid chalk lines.
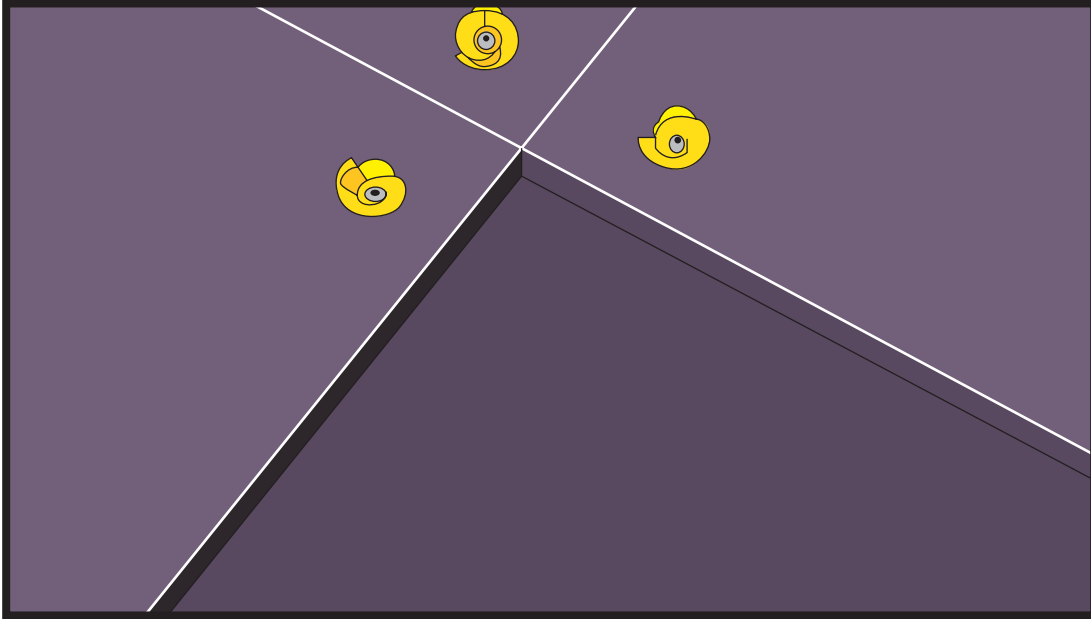
2. Here are the basic components: dry wall anchor, screw, spacer and a rotofast. The anchor is screwed into the drywall and then the rotofast and the spacer are placed on the screw and screwed into the anchor. The hex head of the rotofast is then snapped into place to allow the hex wrench to turn the rotofast from below the star ceiling panel.
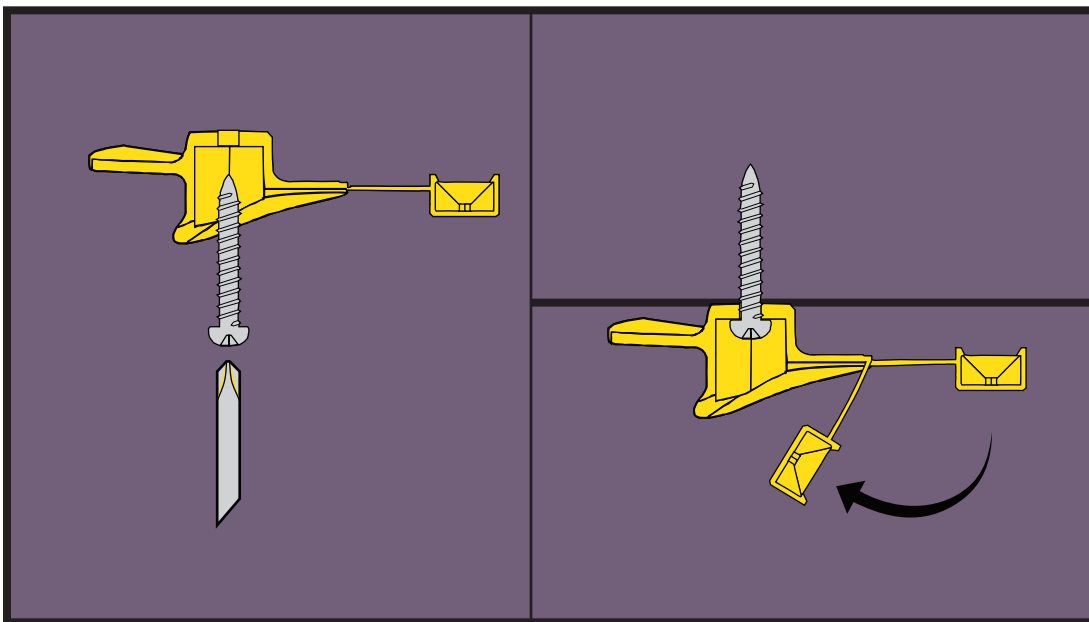
5. Exact measurements are critical because the place the exact points of the rotofast panel fasteners. Take your time, measuring and marking the chalk line snap points. And it's good to confirm your measurements. Measure twice , snap once. The rotofasts are installed 4 inches from each grid corner with one at the center of the long side of each panel Notice that the panels have had any openings pre-cut before installation and each panel has Rotofast markings 4 inches from each edge in the corners and center.
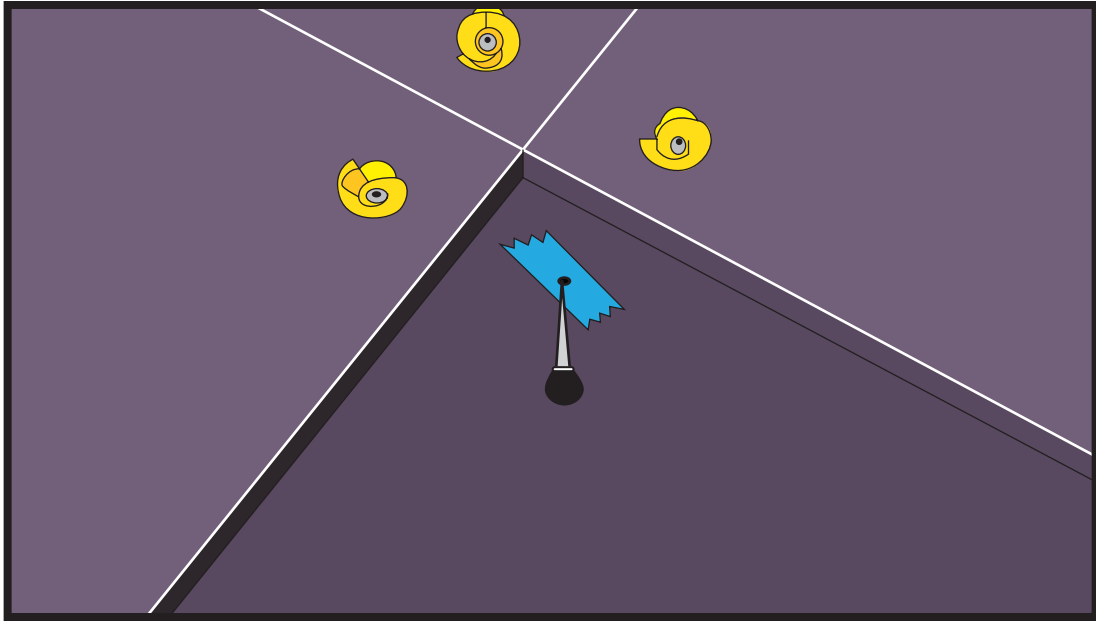
6. After the power cable is connected and checked, the panel is ready to lift into position. Therefore, two people are needed for the installation. Then, carefully position the panel in place. Again, the panel each have a rotofast position marked on masking tape pieces on the panel face 4 inches from each corner and center edge. The panels are somewhat fragile, so go slowly.
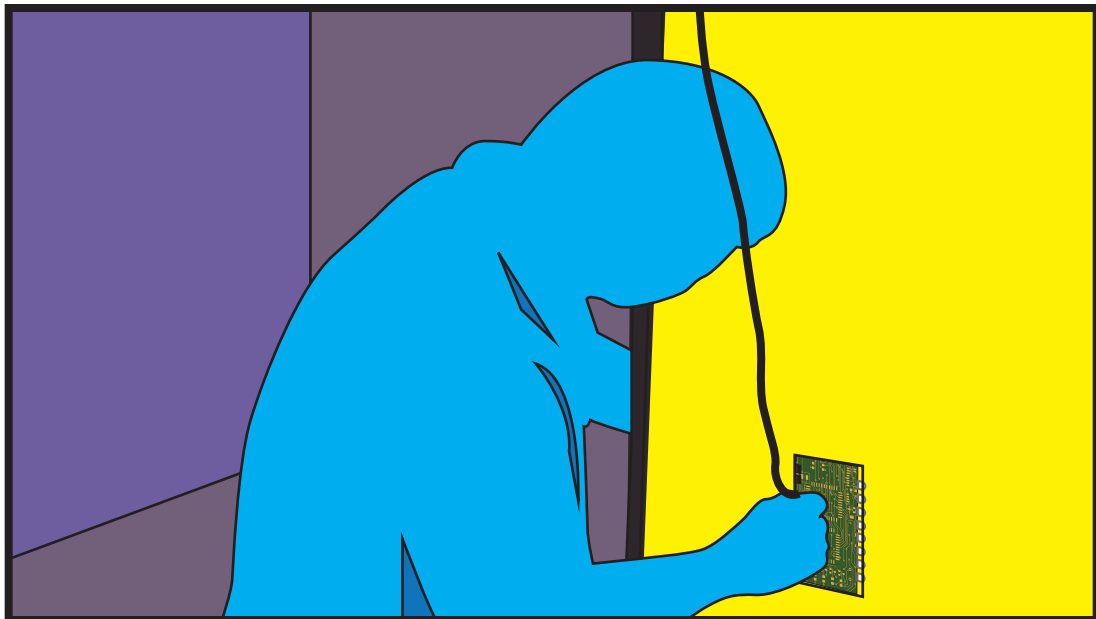
7. When the panel is fully in place and aligned, the rotofast from each corner can be engaged. This is done with a hex wrench inserted through the face of the panel at the mark. The hex wrench is rotated counter-clockwise to screw the rotofast in the panel material. A little pressure while turning helps seat the fastener into the material. An ice pick is used to locate the exact position of the hex nut in the rotofast. Then, the hex wrench can be inserted into the hex nut to slowly turn the rotofast. Make sure to level the panel face with the other panels.
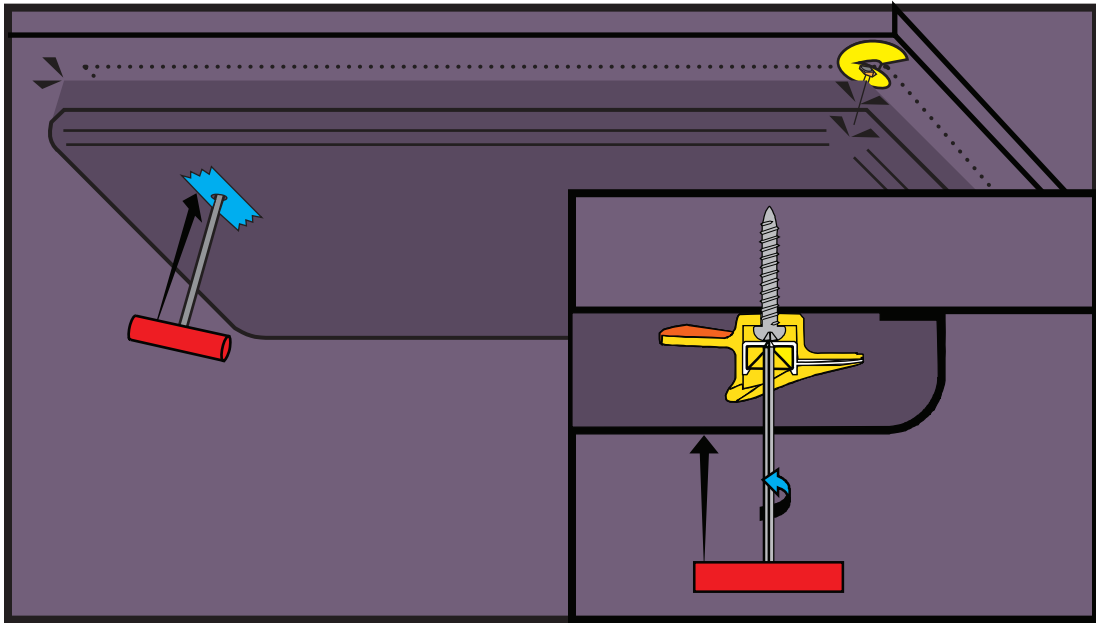
8. When the panels are in place they can be leveled with each other for a smooth surface across the corners. This process is repeated at each corner of the panel while the panel is held in place by a second person. Gentle pressure combined with the slow turnes of the hex wrench is the correct way to install the panels. It might take a few seconds to find the center of the hex nut in the rotofast, but once it's found, the hex wrench can be inserted to engage the fastner. Turn counter-clockwise to raise the panel and clockwise to lower it, turn slowly, rotofast can be over-rotated .

9. After the four corner are secured the center panel rotofasts can be engaged to level the middle sections. Remeber, pre-cut the panel openings exactly measure and mark the rotofast positions use a minimum of 2 people to carefully install each panel and level them for a smooth surface when correctly installed, the Star ceiling panel is a dramatic scenery to any room.
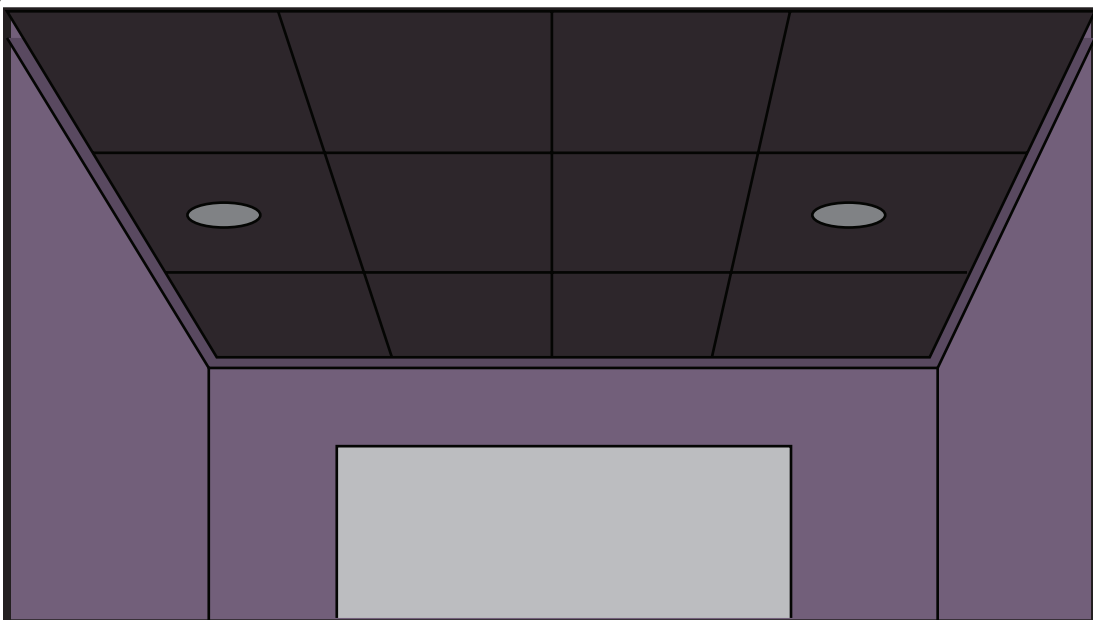
Field Cutting Star Panels

To field cut star panels for protruding objects, as you're installing the panels, mark the location of the protrusion on the upper side of the panel. Remove any fibers in the area and use our poking tool to re-insert them elsewhere in the panel. Then carefully cut only the 1" Fiberglas for the measured opening with a sharp non-serrated knife or box cutter, making sure not to cut the fabric below. Then, make an "X" in the fabric below and fold the 4 fabric flaps up into the opening, gluing them over the top of the panel to create a finished area, using a light adhesive spray, such as 3M Super 77 spray. You can also field cut for speakers and air vents, but you leave the fabric intact and reinsert the fiber strands through the fabric, after cutting only the Fiberglas on the panel.

To field cut star panels that are slightly larger than the installation area, you first "un-rap" the fabric on the side that you need to shorten. Mark the new line to cut on top of the fiberglass panel and remove and re-locate any fiber optics in the area. Being careful not to nick any fabric, cut to the new size with a sharp non-serrated knife or box cutter. Then re-wrap the fabric over the top with slight tension, using a light adhesive spray such as 3M Super 77 spray to tack the fabric back over the top of the panel edge.
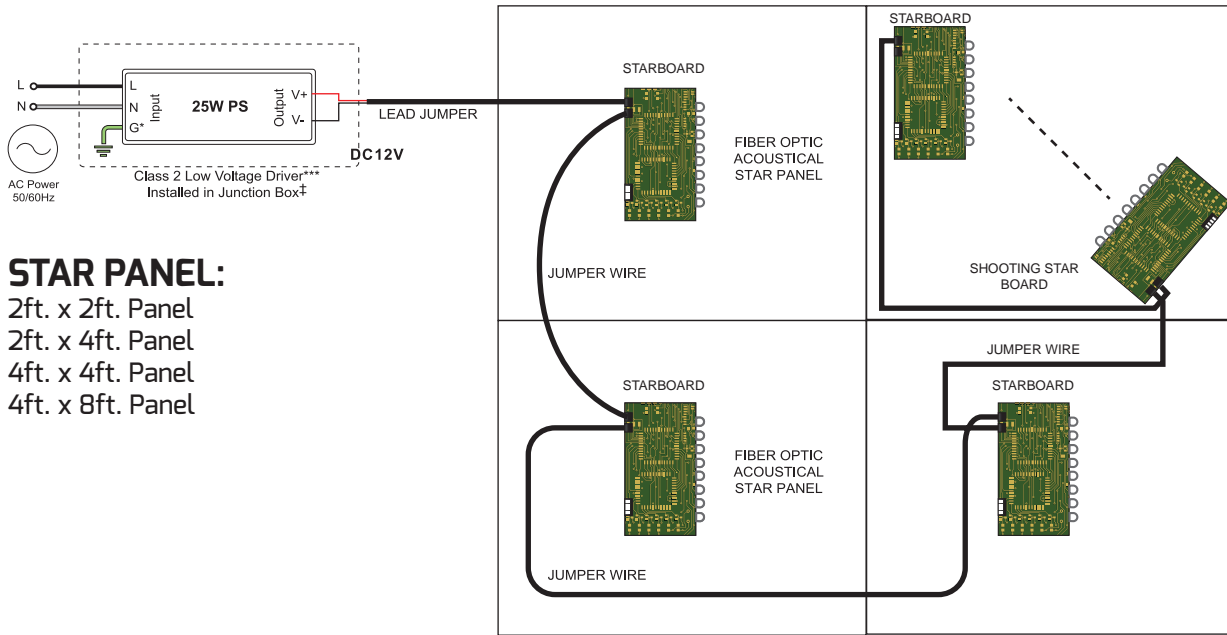
Warranty Information

With purchase of our star panels, there is a 1 Year Manufacturer's Warranty. This guarantees that any products with defects in materials and/or workmanship will be repaired or replaced by the manufacturer for a period of 1 year from the date of purchase. During this warranty period, the manufacturer will replace or repair any defective parts and correct any defect in workmanship without charge for parts and labor. For warranty labor, contact us, as any reimbursement must be pre-approved by us before proceeding. We will not cover any warranty labor that has not been pre-approved and performed by a qualified provider. For this warranty to apply, the products must be installed and used in accordance to its written instructions. Damage to, or destruction of any product caused by the end user is not covered by this warranty. Additionally, normal wear and tear are not covered by this guarantee.

Shipping Damage is Not Covered under this Warranty. All shipments received by you that seem damaged, must be noted to the freight carrier, then refused and returned to the address on your shipping label for claim processing. You must report any damage claims immediately so that the party responsible for the damage can make amends. We will not be held responsible for any shipping damage and you may have to claim freight damage with your own insurance company, if you do not note it with the shipping carrier.

We will not be liable for any implied warranty or merchantability or fitness for a particular purpose to any person other than the original purchaser and user. Under no circumstances will the manufacturer be liable for property damage, economic loss, or any consequential damages sustained in connection with the purchase and use of any products. Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The manufacturer neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as is expressly set forth herein. This warranty gives you specific legal rights, and you may also have other rights which may vary, from state to state.
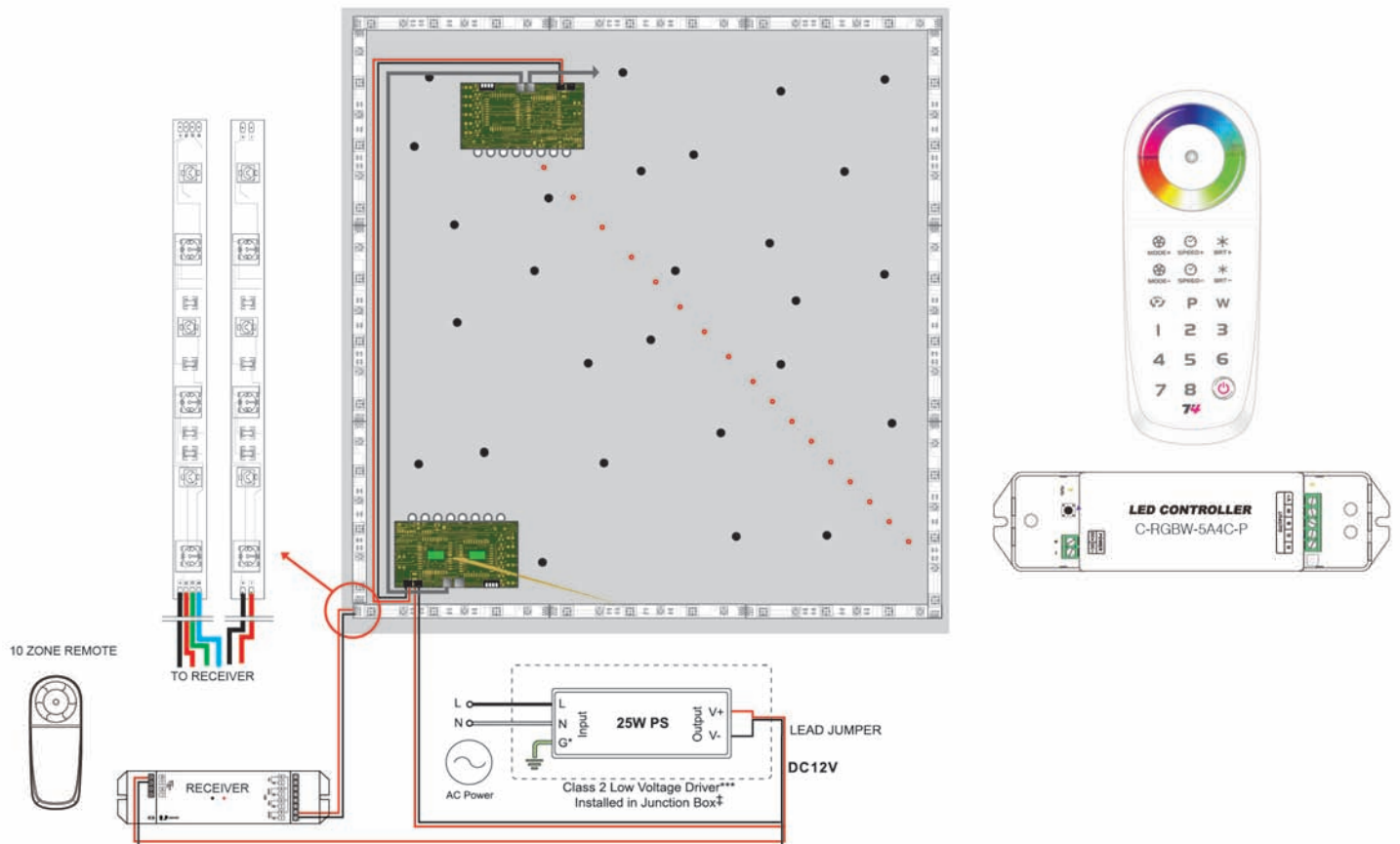
WIRING PANELS (STARS ONLY)

L
N

25W PS

L
N
G*

Input

Output

V+
V-

DC12V

AC Power
50/60Hz

Class 2 Low Voltage Driver***
Installed in Junction Box‡

LEAD JUMPER

STARBOARD

FIBER OPTIC
ACOUSTICAL
STAR PANEL

JUMPER WIRE

STARBOARD

SHOOTING STAR
BOARD

JUMPER WIRE

STARBOARD

FIBER OPTIC
ACOUSTICAL
STAR PANEL

STARBOARD

JUMPER WIRE

STAR PANEL:
2ft. x 2ft. Panel
2ft. x 4ft. Panel
4ft. x 4ft. Panel
4ft. x 8ft. Panel

STAR PANELS WITH HALO EFFECT USING RGB OR SINGLE LED COLOR STRIPS WITH A 10 ZONE RF REMOTE CONTROLLER AND RECEIVER

10 ZONE REMOTE

TO RECEIVER

RECEIVER

LED CONTROLLER
C-RGBW-5A4C-P

L
N

25W PS

L
N
G*

Input

Output

V+
V-

DC12V

AC Power

Class 2 Low Voltage Driver***
Installed in Junction Box‡

LEAD JUMPER

STAR PANEL ADJUSTMENTS

DIP-SWITCH ADJUSTMENTS:

We recommend never touching the Dip-Switch Program adjustments, except for setting the shooting star firing frequencies to one minute, two minute, five minute, or ten minute intervals on the shooting star boards - not on the main star panel boards. The ideal setting for each main star panel board is the "Twinkle" setting, which is set from the factory (default setting). The Remote Control Buttons (see below) override the Dip-Switch Program settings.

Dip-Switch Program	Switch 1	Switch 2	Switch 3
Twinkle	On	Off	On
Fireflies Effect	On	Off	Off
Random Strobe	On	On	On
Shooting Star (1 minute)	Off	On	On
Shooting Star (2 minute)	Off	Off	On
Shooting Star (5 minute)	Off	On	Off
Shooting Star (10 minute)	On	On	Off
LED Off	Off	Off	Off

REMOTE CONTROL ADJUSTMENTS:

The provided wireless remote control can adjust the star panels by pressing one of the nine buttons. Buttons 1 through 4 are for starfield adjustments only. Buttons 5 through 9 adjust shooting star control boards only. Button 1 turns everything off, while button 2 switches on the twinkling feature, which we recommend you use as your default setting for the starfields. Button 3 "Fireflies" and button 4 "Random" are fun settings, but not recommended for normal use. The shooting star buttons are self-explanatory, but call us with any questions about the remote control adjustments.

Remote Control Button	Function
Button 1	All Off
Button 2	Twinkle
Button 3	Fireflies Effect
Button 4	Random Strobe
Button 5	Shooting Star 1 Minute
Button 6	Shooting Star 2 Minute
Button 7	Shooting Star 5 Minute
Button 8	Shooting Star 10 Minute
Button 9	Shooting Star Off

Star Panel
Remote Control

Please note: the Dip-Switch Program settings are for star panels manufactured after January 1st, 2016. The Remote Control Button feature is included on star panels manufactured after March 1st, 2016. Please contact us for settings on older panels. Call with any questions about these adjustments before you install your star panels. (866) 243-1001