

SUPER STAR LIGHTS



These are instructions for the Molded Back Star Kit that is designed for the top of the SuperStar Light Display. Please take a few minutes to carefully read and understand all of the directions here.

1. Inventory the items that were included in your kit:
 - 1-Superstar front panel-drilled to accept the 5mm wide angle LED's
 - 1-Molded back panel
 - 25- #8 machine screws
 - 25- #8 flat washers
 - 25- #8 lock washers
 - 1- LED light string-20 count LED's
 - 1- LED light string-30 count LED's
 - 1- LED light string-40 count LED's
 - 1- LED light string-50 count LED's
 - 1- LED light string-60 count LED's
 - 1- LED light string-70 count LED's

2. You will need the following tools and supplies:
 - Philips head screwdriver
 - Drill Motor
 - 3/8" drill bit
 - Hot glue gun and glue sticks to secure the LED's in the front panel (Keep in mind that you may need to replace an LED string therefore epoxy is NOT recommended!)
 - 1- Wiring tie wraps or similar securing devices of your choice (Optional)

3. As you build your Star please keep in mind the following:

- How will you mount the Superstar? Most people drill 3 or 4 holes in the back of the star and bolt the star to a frame that then fastens to the structure that holds the Cosmic Color Ribbons below the star.
- Each hobbyist has different wiring needs. Do you need the power wires coming out of the back of the star or out of one of the side panels? These instructions show the wires exiting from one of the sides at the bottom.
- Although LED's have a considerably longer operating life, from time to time you may need to replace an LED string. Hot glue is used to hold in the lights because it sticks well enough to hold them in but the hot glue can also be removed and peeled off if a string needs to be removed.
- A moderate skill set is required to drill the side panel screw holes. This kit was designed so that the average do-it-yourselfer can successfully assemble this kit.
- Any construction techniques or suggestions are welcomed!

LED Light String Installation

1. Check each light string for proper operation prior to gluing it in place. If you find a light string that is inoperative send an email to brian@superstarlights.com and a replacement will be shipped promptly at no charge. Also, any light strings that fail for the next 2 years will be replaced at no charge.
2. Start gluing the LED light strings's on the innermost star. It is helpful to visualize the innermost star pattern. Once the innermost star pattern is established it is easier to see where the next outer star pattern begins. You can use a piece of colored string to establish the innermost star pattern (Photo #1).

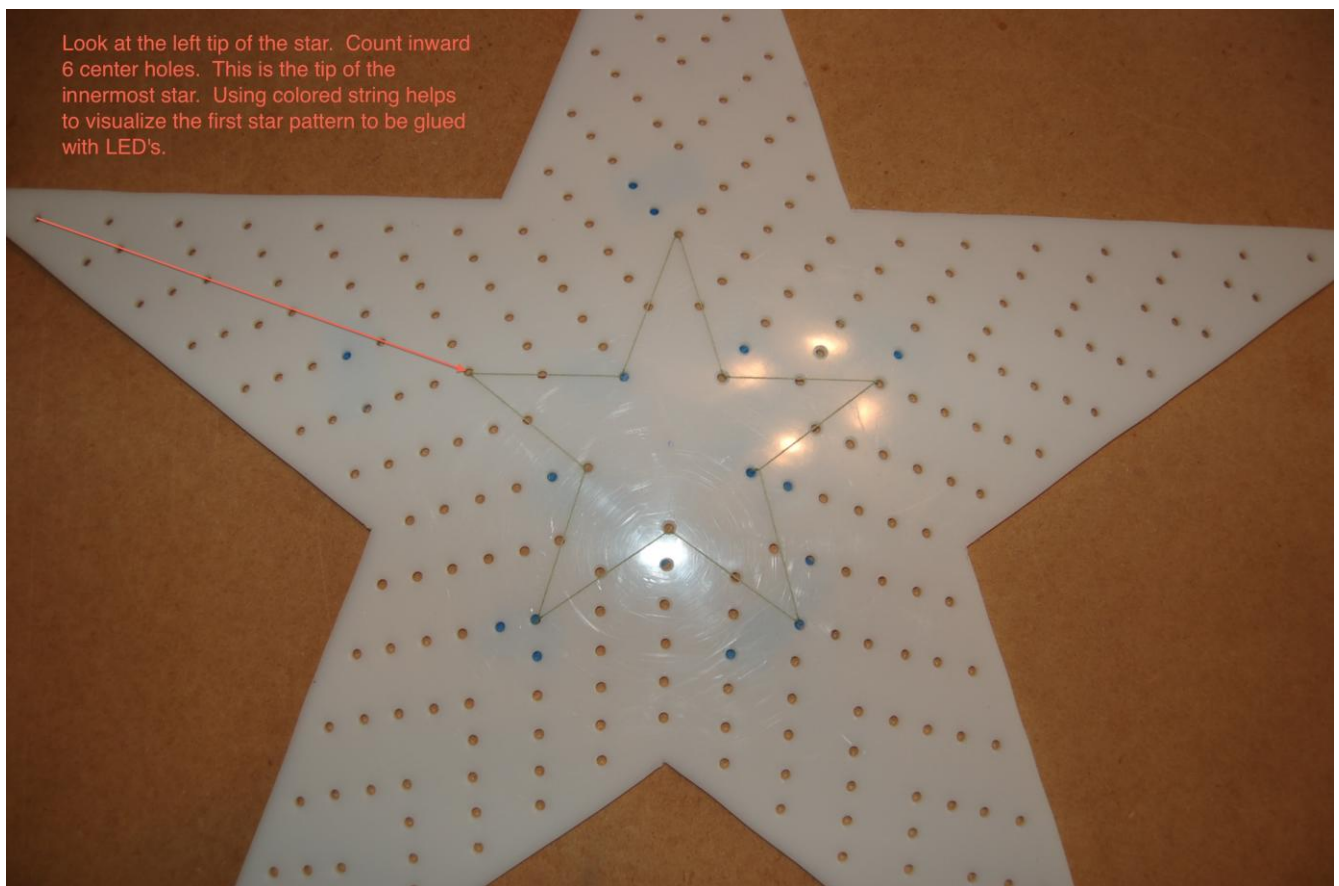


Photo #1

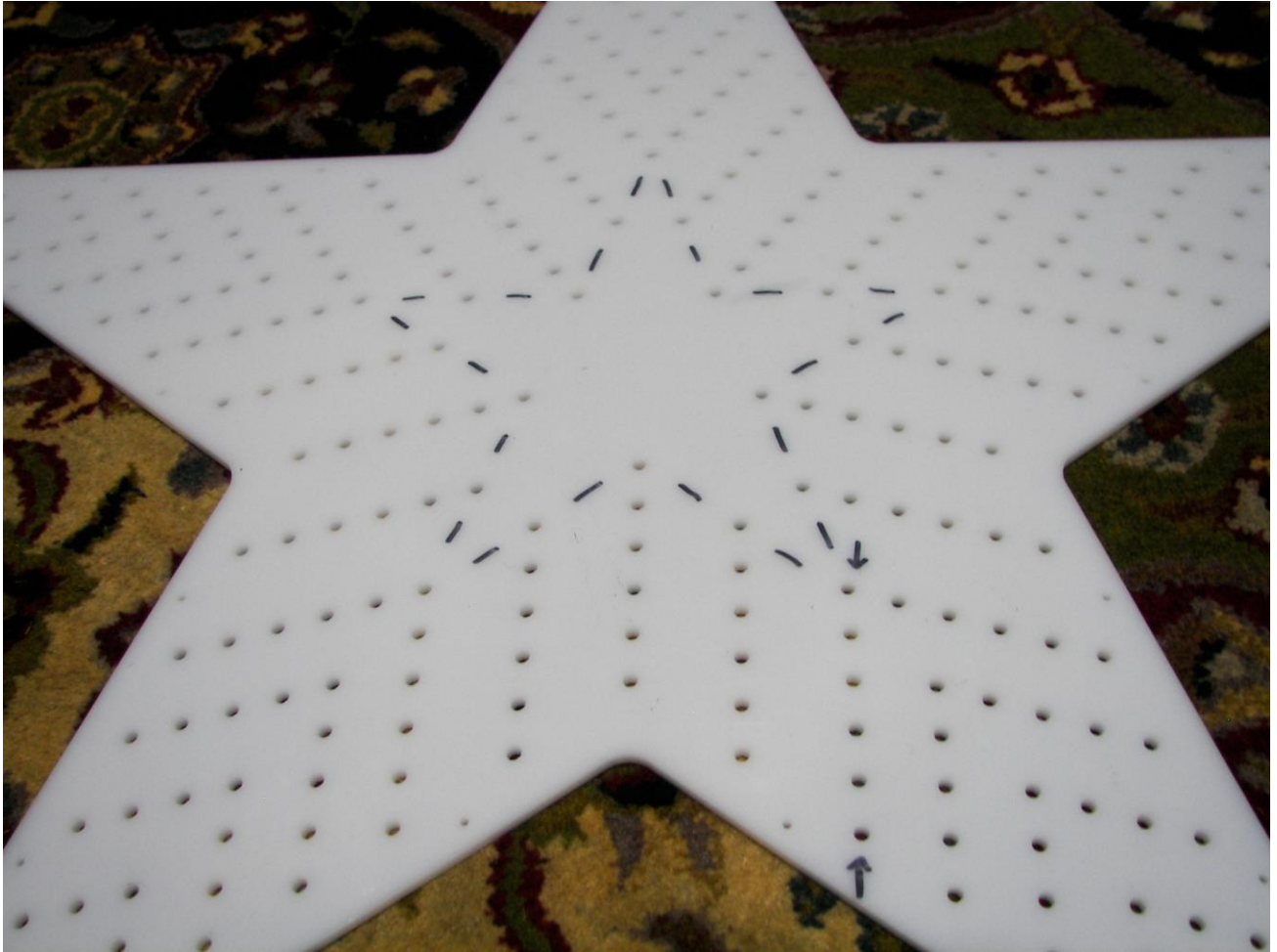


Photo #2

Photo #2 shows another way to mark the innermost star using a permanent marker. Put a short line in between the holes. After gluing in the lights you can use a paper towel dipped in rubbing alcohol to rub off the permanent marker. The two arrows are to mark the line where each set of lights is to start. The edge by the bottom arrow will also end up being the point where all the wires exit.

3. Glue one LED in at a time keeping in mind the wiring placement (remember to let the glue dry as you go!); it is helpful to lay out the LED string for easy access as you glue the next LED. Note the start of the light string. See Photo #3

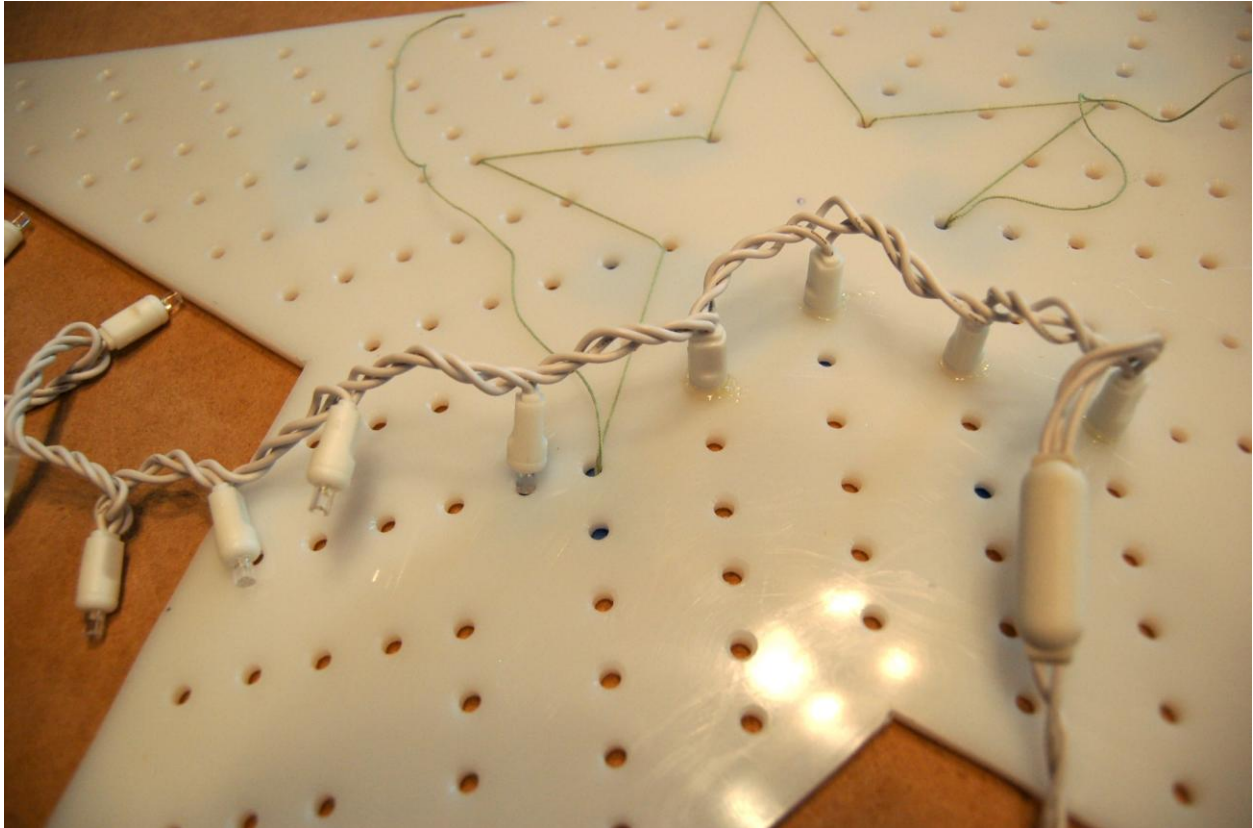


Photo #3

4. Glue the LED strings one section at a time working from the inside to the outside of the star until all six light string sections are glued in place. See Photos #4 and #5.

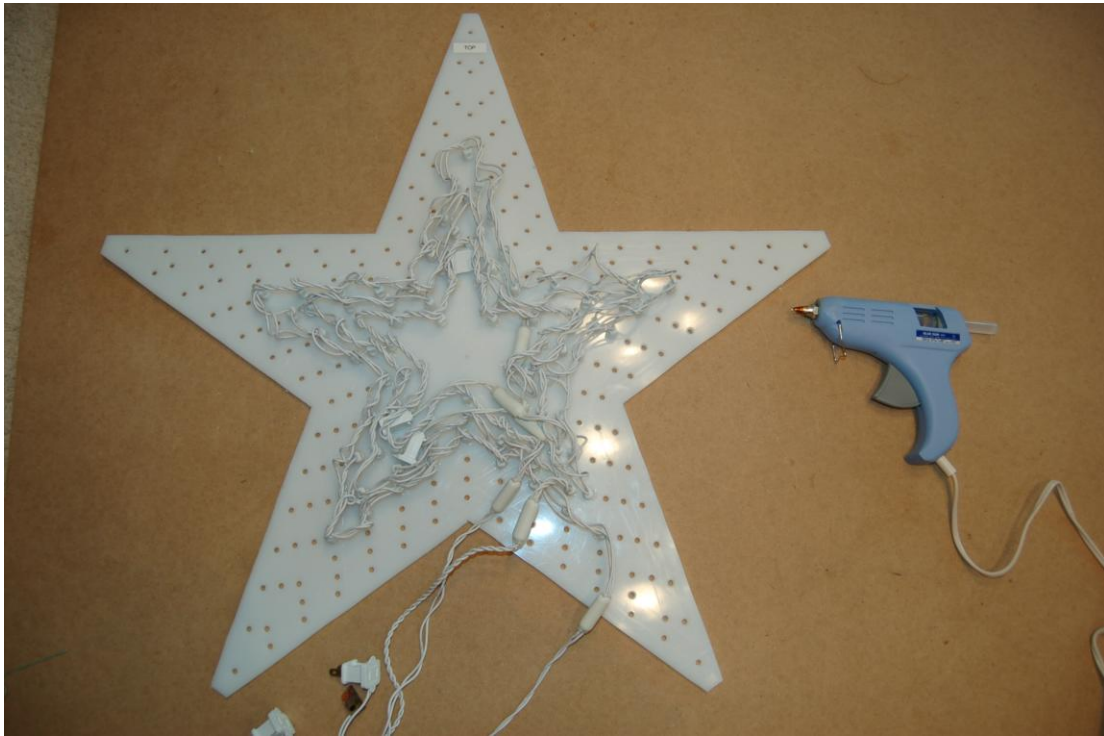


Photo #4



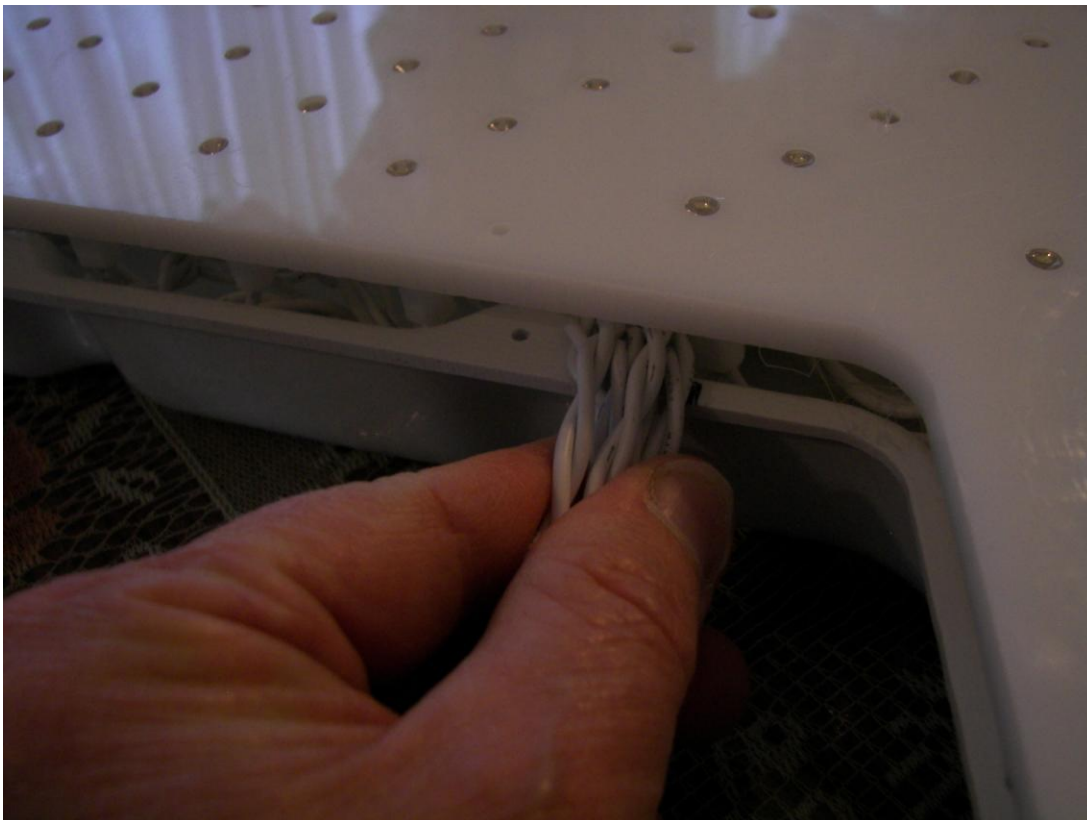
Photo #5

Secure Front Panel to Molded Back Panel

1. Use a zip tie (also known as cable ties) to tie the wires together that are to exit the side.



2. Lay the front piece onto the molded back and mark where the wires will exit.



3. Use a 3/8" drill bit to drill a hole for the wire exit. Start the hole just below the lip so that when you are done drilling the hole it looks like the picture below.



4. While the drill bit is spinning, pull up on the drill so that you end up with a notch like the picture below. You will have to enlarge the hole a bit by wiggling the drill bit around in the hole. Place the front piece into the back piece and make sure the wires fit into the notch. After confirming the notch is the right size use a metal file to file any sharp edges on the notch hole



5. Place the front piece into the molded back. Insert a screw as shown, slide a washer, and then slide a lock washer, and then screw on a nut and tighten as shown in the picture.



6. Insert the rest of the screws and use a washer, lock washer, and nut in the same way as pictured in step 5. Below is a back view of the finished star. In our star the wires come out at the bottom. You can make yours come out in a different place if you want.



7. If you have purchased the drop-down, it is designed to be fastened to the back so that the top of the drop-down is at the middle of the star as pictured below. Drill some holes and fasten the drop-down to the back of the star. (Hardware to fasten the drop down to the back of the star is not included).



8. Here is the front view of the finished star. I have marked the plugs for each of the stars. Star #1 is the innermost star. In the picture I have all the plugs plugged into each other. This is just to make them look nice for the picture. In actual use, each plug will be plugged into its own plug that comes from a standard Light-O-Rama 16 channel controller.



9. You are done with the basic construction. You will now need to mount the star. One way to do this is to remove the back piece and bolt it to a wire frame star and then screw the wire frame star into your mast.

NOTE: SuperStar Lights assumes no responsibility for incorrectly installed wiring or faulty techniques! SuperStar Lights recommends the use of the supplied electrical plugs, which use an inline fuse for safety purposes. Do not risk your display or your home with faulty wiring or poor practices!