

Radio Sign Assembly Instructions

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Thank you for your purchase of the ChristmasLightShow.com radio sign. While the assembly of your radio sign is an overall fairly simple process, reviewing the instructions below will ensure that your experience is as easy and quick as possible. There are two styles of signs depending on your frequency – 10x.x and xx.x FM.

Preparation

When you receive your sign, it may have little “hairs” on the edges – this is normal and does not affect the sign as these edges are generally hidden once the radio sign is mounted in the frame (not included.) If you wish to remove any remaining hairs, you can use a 50-100 grit sand paper.

To assemble your sign you will need lights (not included), which can be incandescent mini-lights or M5/M6 LED lights in any color that works best for your display. The number of lights required will depend on your chosen frequency and you will be able to determine the number of lights required using instructions below.

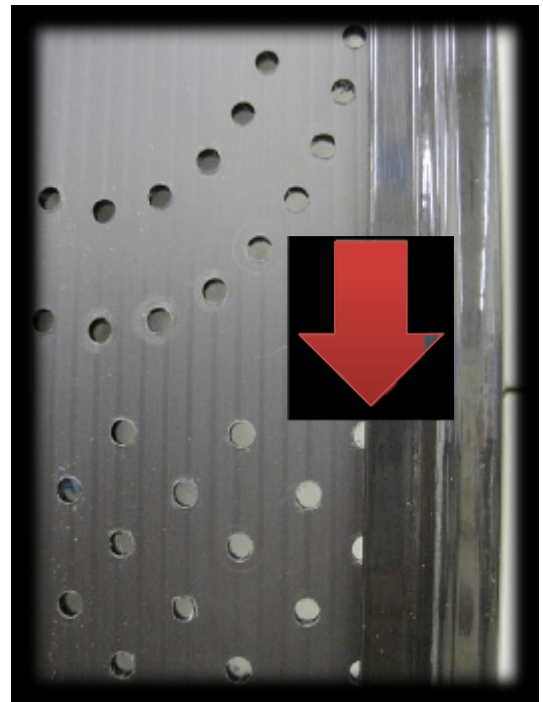
Mounting/Holder

The most common and easiest method of mounting your sign will be to use a standard 18”x24” real estate sign holder. The only requirements for the sign holder are:

- Able to hold a 18” tall x 24” wide sign
 - An exposed/un-obstructed “window” of 22 ½” x 16”.
- There is a clear area around the edges of:

- Top: 1 3/8”
- Bottom: 3/4”
- Left/Right Sides: 5/8”

If you will be purchasing your sign holder from a retail outlet, we recommend bringing your blank/un-populated sign with you to test fit in the prospective frame prior to purchase to ensure a perfect fit the first time.

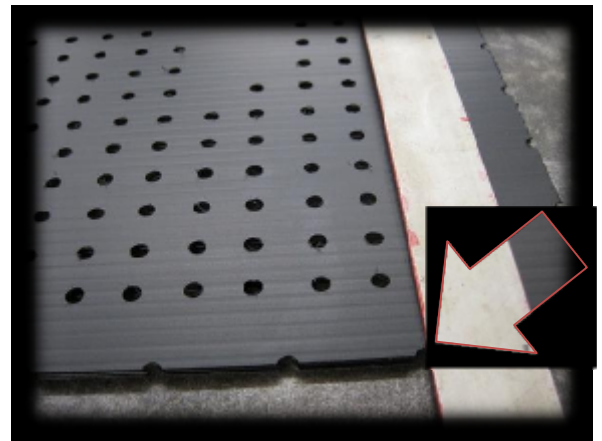




There are many different styles of sign holders, the two most common being the screw attached and the "slide-in" style. Either sign style will work, though be aware that for slide-in style signs that you must install the sign in the holder PRIOR to installing any lights or otherwise it will not be possible to slide in the sign with the lights installed (but after you have completed the grid – see below.)

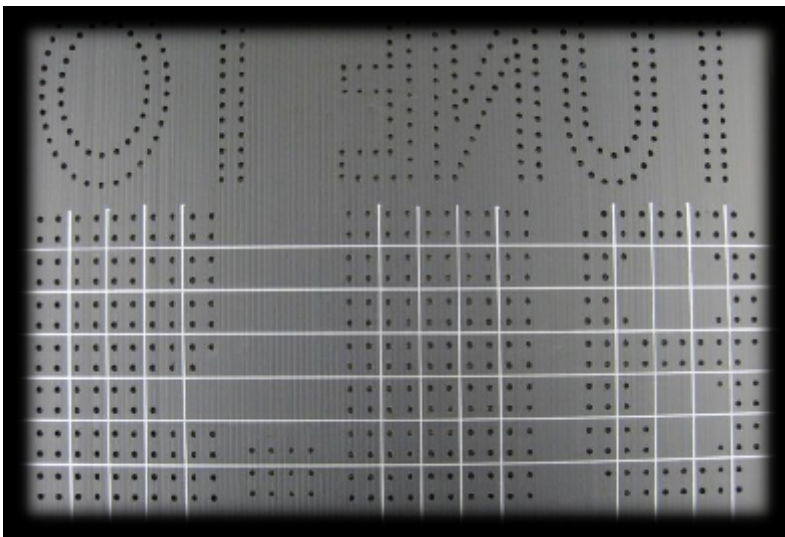
Marking the Grid

In order to place the lights into your sign, you will need to mark out a grid on the back side of the radio sign. To do this you will need a 24" long straight edge, ruler or other flat, straight item. We also recommend a Silver Sharpie pen for marking the coro as it shows up well on the black coro and makes locating your holes easier. Once you have your marker and straight edge, flip the radio sign so that the back of the sign is facing up – it should read "OT ENUT" at the top. On each side and the top and bottom you will notice little "notches" cut out of the edge of the coro – these are the



alignment markers. Between each of the alignment markers you will draw a line (see the photo above.) This line should fall between the two rows of holes – now using your marker or Sharpie, mark a line between the two sides.

When your sign is marked off, you should see a grid similar to the photo shown to the left (showing the xx.x sign.)



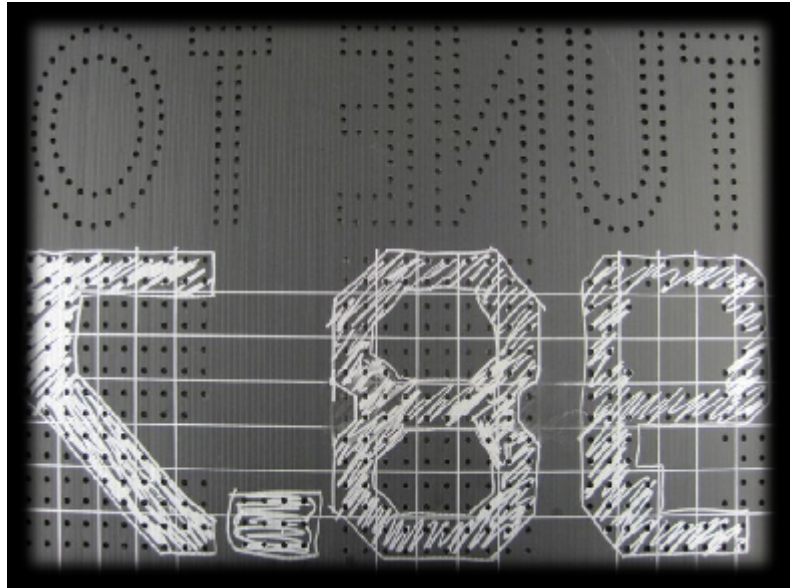
Note that in selected cases there may not be clear notches on the edges, if that is the case, review the Bulb Population Chart to determine the spacing between the grouping of characters (3 holes for the 10x.x and 4 holes for the xx.x sign.)

Now that you have the grid marked on the back side the sign, you can layout your chosen frequency. If you are looking for possible “open” frequencies, you can check <http://www.radio-locator.com>. Of course it is a good idea to also check the radio for your chosen frequency to see if there is an existing radio station. When picking a frequency, be aware that the last digit (the one after the period) can only be an odd number, thus you will find that we do not include the ability to populate this last digit with even numbers.

Now that you have the frequency you intend to use in your display, you will need to mark the back of the sign with that frequency so that populating the bulbs will be easier. Using the “Bulb Population Chart” included with your product (you can download additional copies at <http://www.Christmaslightshow.com/docs/18x24RadioSignBulbTemplate.pdf>) select the numbers you will be using to populate your sign. Make sure as you put

your numbers down on the sign that you put them in reverse – remember that we are assembling the sign up-side down and thus, when flipped over, it will read left to right as you would expect.

We recommend that you mark an outline and then “shade in” the section where bulbs should be placed on the back side of the sign. You can see a sample to the right of a sign prepared for bulbs with the frequency of 98.7. Now, look very closely at your bulb layout and make 100% sure you have laid out the pattern correctly.



Installing the Bulbs

Now that you have the area marked where you intend to install the bulbs, you are ready to finish by installing the bulbs. You can use incandescent mini-lights or M5/M6 Led bulbs to populate the sign. You can mix and match bulb colors to get added effect, such as green for “TUNE TO” and red for the frequency. You can also adjust for one or more channels. For example, you may want to put the “TUNE TO” on one channel and the frequency on another channel so you can alternate them to grab your audience’s attention.

The number of bulbs required for your sign vary depending on the type of sign and the frequency you chose. Using the following chart you can determine the exact quantity of bulbs you need for your design:

18" x 24" / 10x.x Radio Sign	18" x 24" / xx.x Radio Sign
"TUNE TO" - 297 Bulbs	"TUNE TO" - 297 Bulbs
Decimal - 6 Bulbs	Decimal - 12 Bulbs
0 - 54 Bulbs	0 - 80 Bulbs
1 - 51 Bulbs	1 - 68 Bulbs
2 - 54 Bulbs	2 - 78 Bulbs
3 - 60 Bulbs	3 - 76 Bulbs
4 - 42 Bulbs	4 - 64 Bulbs
5 - 62 Bulbs	5 - 82 Bulbs
6 - 55 Bulbs	6 - 78 Bulbs
7 - 53 Bulbs	7 - 63 Bulbs
8 - 68 Bulbs	8 - 84 Bulbs
9 - 55 Bulbs	9 - 85 Bulbs

So, for our sample sign of 98.7 we would have a total of 473 bulbs.

Before you install the lights, if you have a "slide in" style frame holder, you will need to install the radio sign in the frame PRIOR to installing the lights. Now you are ready to install the lights. The following are tips to make your installation of the lights as easy as possible:

- Look at the design and determine, based on your channel count and string count, to "map out" how you will be installing the lights prior to installing them.
- Generally we recommend starting by installing your lights at the end of the string (the end that usually has a female plug.) If you end up not using all the lights in the string, it allows you to use that extra length to reach your controller if needed.
- If you have more than one channel, we recommend "landing" the male plugs from each channel near each other.
- Where possible, secure the end of the light string to the frame with a zip tie as a strain relief.
- If you have extra unused lights, you can zip tie them to the lights in the "TUNE TO" section. The black coro will prevent the extra lights from shining through to the front. If you need to block light from the rear of the sign, you can cover the additional lights with a black plastic bag and zip ties.



Your radio sign should now be complete! If you should have any additional questions or comments about your radio sign, please feel free to contact us at www.ChristmasLightShow.com and just look for the "Support" link on the website.

Thanks for purchasing the ChristmasLightShow.Com Radio Sign!