

TRON Arcade Marquee Build

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TRON subreddit where you found this guide: <https://www.reddit.com/r/tron/>

Created by <https://www.reddit.com/user/ashleymcclone>

Greetings, Program!

Not everyone has \$700 to buy a 1UP Arcade TRON cabinet (<https://arcade1up.com/products/tron-arcade-machine>), so we're going to build an arcade marquee for your nerd toy shelf instead.

We are going to hack all these materials into a foam light box with LED light strip for TRON Arcade Marquee illumination. Read these instructions completely and carefully before beginning the project.



Parts List

TRON Arcade Marquee on eBay \$17.95 from seller frockentpromo2

This is not plexiglass. It is a rolled up translucent material.

I safely trimmed one inch from left and right sides to make it 24" to fit the other materials.

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| \$17.95 | TRON Arcade Marquee Art 26"x8" | https://www.ebay.com/item/274599938933 https://www.ebay.com/usr/frockentpromo2 |
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|---------|--|---|
| \$3.88 | Black Duck Tape | https://www.walmart.com/ip/Duck-Brand-1-88-in-x-20-yd-Black-Colored-Duct-Tape/20683346?athbdg=L1200 |
| \$10.34 | Black Project Board 36x48 | https://www.walmart.com/ip/Elmer-s-Premium-Foam-Tri-Fold-Display-Board-3-16-Thick-36-x-48-Black-Single/15079109 |
| \$9.98 | Poster Frame 24x36 | https://www.walmart.com/ip/Mainstays-18x24-Basic-Poster-Frame-Black/883237 |
| \$4.88 | USB LED Light Strip 6.5ft. | https://www.walmart.com/ip/Monster-Digital-Multi-Color-Multi-White-USB-LED-Light-Strip-with-Remote-6-5ft-2m/451773131?athbdg=L1600 |
| \$0 | Glue gun Hot glue stick Double sided tape Xacto knife or box cutter | Stuff I (my wife) had on hand |
| ~\$50 | | after tax total about \$50 + about 4 hours of assembly |

Instructions

Start with the black foam project board. Note the center section is already 24" wide, with two 12"

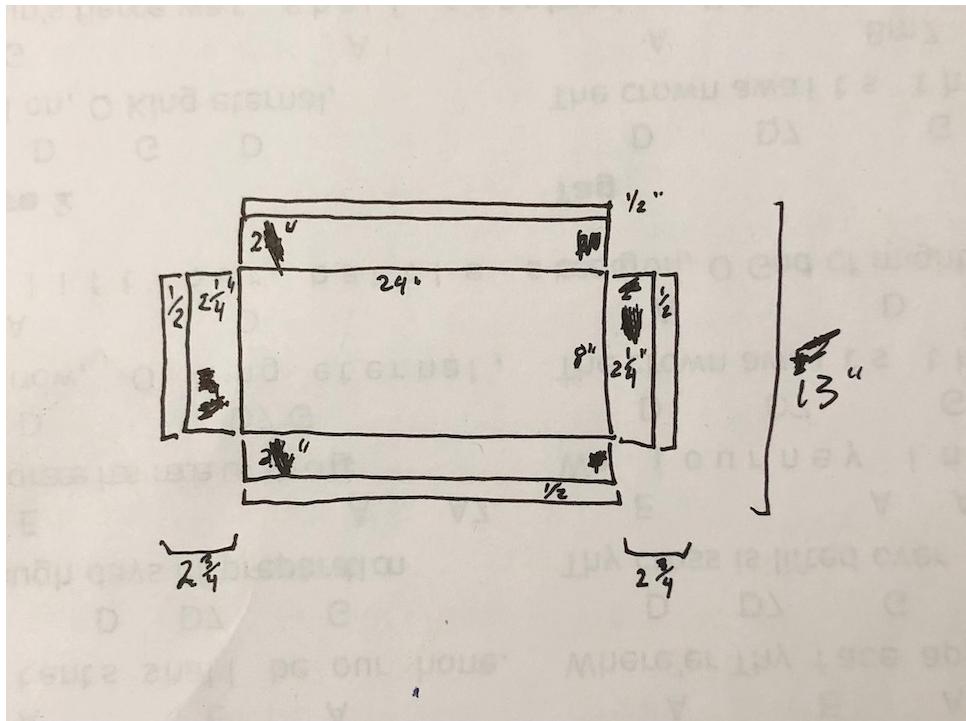
folding sides. You're going to trim the bottom 13" off this board per the diagram below.

Trim the two fold out sides as follows.

Score the back without cutting all the way through so that you can fold it into a box per the diagram and illustrations below. After scoring carefully fold the box to make the bends as pictured below.

Note that the left and right sections are 2.25" + 0.5", while the top and bottom sections are 2" + 0.5".

This allows the sides to fold out and over the front of the sign.





To apply the LED strip I measured the center 16" of the back of the light box, and then I marked 1", 3", 5", 7" for even rows on the back.

Remove the adhesive cover on the back of the LED strip as you apply it to the light box.

Carefully stick the LED strip along the lines you penciled in on the back at the above measurements. Use care when turning the corners not to pinch the LED strip too tightly or break it's connections.

Bottom right cut a little whole to poke the USB cable out through the back.

Note that I used a 5V 1A USB battery pack, and it drained quickly. I ended up using a USB AC charger to power it. Having the battery bank option is nice for portability.



Measure off 8" at the top and bottom of the poster frame plexiglass. That is all we're going to use. Carefully cut these two 8" x 24" sections.

Trim 1" from left and right sides of the marquee art to make it 24" x 8".

Place the marquee art between the two pieces of plexiglass.

I used two short pieces of double-sided tape in each of the top left and right corners to secure the marquee art to the front and back plexiglass panels. I kept it down the side so that the box would fold over the front 1/2" of each side.

Use the hot glue gun to place a bead of glue down the top 1/2" fold outside edge along the top of the light box. Carefully align the top of the plexiglass back onto this glue run so that the box folds under the top of the sign edge. Repeat for the bottom fold up edge with hot glue and align/attach the bottom edge of the sign from the back.

Now hot glue the two left and right edges of the box that should fold out and overlap the front of the sign 1/2" on each side. Place the glue on the inside edge so that it folds over and onto the front of the plexiglass.

Attach power and fire it up, Program!

This picture was the first light. Notice the light leak around the edges. To cover this I carefully cut two 8" and two 23" pieces of black duct tape to cover the four edges on the front of the sign.

For the left and right sides I aligned it with the 1/2" overlap on the front.

For the top and bottom edges I only lapped about 1/4" onto the front of the sign.

This solved the light leak around the edges and also cleaned up the look from the ragged edges of the project board creases.



Enjoy for years to come, or until the cheap LED light strip quits.

Any questions post them into the TRON subreddit where you found this guide:
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Please post a picture reply in the subreddit when you get your project completed for the rest of us to enjoy.