

XL Magnetic LED Light Bar

 **Enthusiast**

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Summary

A left and right side LED light bar held in place by magnets for easy installation and removal.

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Tags: [light](#) [led](#) [lightbar](#) [xl](#) [ledlight](#)

This is a pair of magnetic light bars that sit on the top part of the XL frame that can easily be removed for easy maintenance of the printer or act as a trouble light when working under poor lighting conditions.

Each base and support are unique and not interchangeable. The parts are printed with PETG, 0.4mm nozzle, 0.20mm layer height, 3 perimeters, 20% Grid infill.

The supports only require supports in the orientation shown for best results. The bases do not require supports or brim.

The bases are paused at 3.80mm to allow for the insertion of the magnets, two (2) per base.

This project requires the following purchased materials:

1. One (1) meter length 16x16mm V Shape Aluminum Black LED Channel and diffuser cut into two (2) halves, 500mm each. https://www.amazon.ca/dp/B0C69FT59K?ref=ppx_yo2ov_dt_b_product_details&th=1

2. One (1) meter LED strip, personal preference on voltage and LED type. For this project, I used 4000K 12V COB LED strip with 320 LEDs per meter. https://www.amazon.ca/dp/B09S5N9V5Z?ref=ppx_yo2ov_dt_b_product_details&th=1

3. Two (2) DC power extension cord six (6) foot length comes with 5.5mm x 2.1mm Male to Female barrel connector, one (1) per light bar. https://www.amazon.ca/dp/B0B538WF8L?psc=1&ref=ppx_yo2ov_dt_b_product_details

4. Four (4) M2.5x16 socket head screws, two (2) per light bar.

5. Four (4) M2.5x16 flat head screws, two (2) per light bar.

6. Eight (8) 30x10x3mm heavy duty Neodymium bar magnets, four (4) per light bar printed into the base with the "PAUSE" set at 3.80mm. https://www.amazon.ca/dp/B0BZVRV2J6?ref=ppx_yo2ov_dt_b_product_details&th=1

The light bars work well with the light bar switch. <https://www.printables.com/model/682226-xl-light-bar-switch>

Model files



base_front_lt_v1.stl



base_front_rt_v1.stl



base_rear_lt_v1.stl



support_front_lt_v1.stl



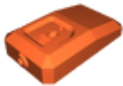
support_rear_rt_v1.stl



support_rear_lt_v1.stl



support_front_rt_v1.stl



base_rear_rt_v1.stl

Other files



xl-led-light-bar.pdf

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