

MAKERS MANUAL #40

Lucas Muñoz Muñoz



B.A.R.E. LAMPS

INTRODUCTION

B.A.R.E Lamps / Brick Light is an ongoing exploration by Lucas Muñoz Muñoz that seeks to produce light fixtures through simple and balanced element combinations. The system is designed to make functioning lamps with minimum effort and cost, combining only off-the-shelf components: Bricks, Appliances, Rods and Electricity (B.A.R.E.). They were first produced for the 'Materia Gris' exhibition, for which Lucas created a series of systems to define each exhibition element using only the exhibition centre materials, without bringing in or acquiring anything new. Instead of renting lights for the event, Lucas designed these lamps for the students of 'Norte Joven' association to produce them. During the exhibition the lamps were sold, with all proceeds donated to the Association's social project.

STEP 1

Source your components - they can be reclaimed from several places. Transformers like the one in the image are very common in halogen light installations and are often substituted. You can take advantage of this and find used ones very easily. Otherwise try your local hardware store. The metal rods can be crafted by you by straightening a length of wire from a roll. It must be steel, brass or copper for the best performance, aluminium won't work well.

STEP 2

Take your electricity transformer and determine the power input and the output. Depending on your location, the input should be 120v or 240v. The output should be a number between 11V and 12V. You can read this on the instructions provided with the transformer.

STEP 3

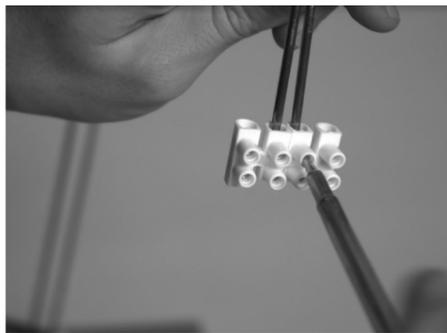
Cut two straight metal rods to the same length. These will be bent to create the structure to hold the light bulb.



STEP 4

Before bending, insert your two rods into a two-module quick connector. This must be done before bending, otherwise you won't be able to insert them afterwards! Bend the steel or copper rods into the shape you want to define your lamp. In this example we have created a table lamp. For this we bent two 75cm rods in four parts; one shorter rod

that will stick out of the transformer and give an upwards slightly front-tilted direction, a second bent at 30 cm high, a third one 30cm parallel to the horizon, and a fourth one to give the light bulb its direction.

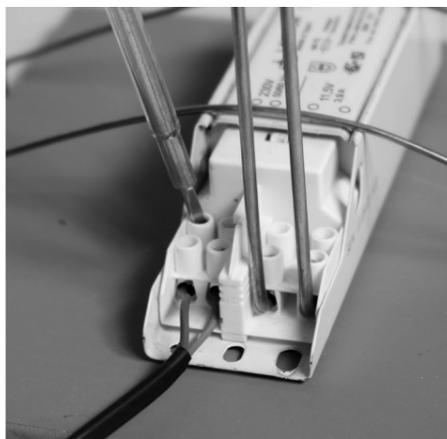


STEP 5

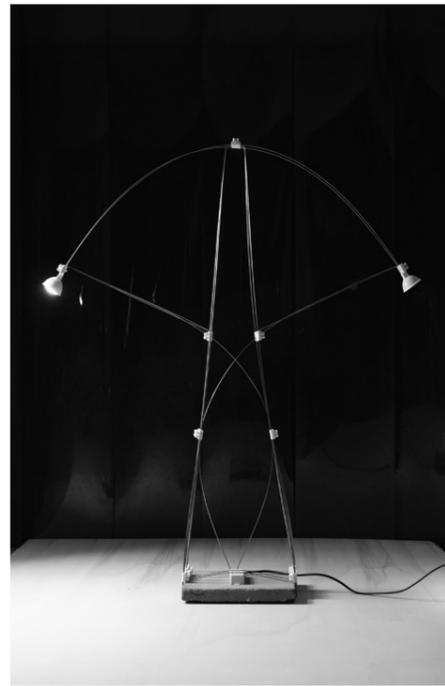
Now that you have the shape you want, connect the metal structure to the output of the electricity transformer and connect the loose two-module quick connectors you inserted the rods through.

STEP 6

Place the transformer, with the structure you created, on top of a tile or brick, and cut and bend some new metal rods to wrap the transformer and the tile or brick.



5+6



LIST OF THINGS

TOOLS

- Electronic screwdriver
- Flat Pliers
- Metal cutting pliers
- Cutting knife

MATERIAL LIST

- LED light bulb MR16 pin connector (used as a substitute for Halogen lights)
- Steel or copper rods. Diameter 1.6-3mm
- A tile or brick - can be found!
- Quick electric connectors (AKA Dominos) 10mm2. They come in packs of 12, for this lamp a pair will suffice for the trunk of the lamp and two pairs will make the bulb holder.
- Electricity transformer to 11,2 V or similar (12v could also be possible, nothing over 14V!!!)
- Small zip ties
- Cable and plug

We recommend that you get a portable appliance test before using your lamp

STEP 7

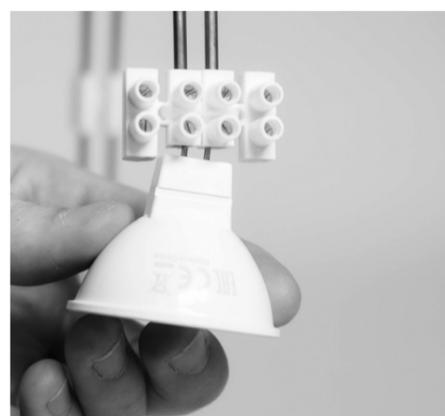
With two pairs of quick connectors create a light bulb holder by joining them with one zip tie.

STEP 8

Cut out a bit of the plastic length of the two input holes in order to shorten the distance from the hole border to the screws. This way you'll be able to connect the light bulb.

STEP 9

Connect this set to the end of your metal rods on one side and on the other. Attach the LED light bulb on the shortened one.



7+8+9

BIO OF THE DESIGNER

Lucas Muñoz is a designer based between his hometown Madrid, Spain and Eindhoven, The Netherlands. His extensive development of unique furniture, together with experimental projects such as sound systems, boats or skateboards, has been informed by the many places he has worked: both at his ateliers and in different places across the world such as India, South Korea, Lebanon and Thailand. Lucas has also developed exhibition and interior design projects within his practice, such as the restaurant project 'MO de Movimiento' in Madrid, which he developed in the last year. He also worked on the sociological study 'The Rocket Trail', which he translated into an exhibition, an archive and a docufilm. lucasmunoz.com [@lucasmunozm](https://www.instagram.com/lucasmunozm)

FURTHER READING

- Whole earth catalogue - Stewart Brand
- Ways of seeing - John Berger
- Global Tools: When Education Coincides with Life, 1973-1975

Makers Manual is a collaborative project between exciting makers and STORE STORE. This is a collection of manuals encouraging people to make objects from what is around them. These manuals are both a practical guide to making for beginners and experts, and a journey into the designers' practice. You can share your creations using [#makersmanual](https://www.instagram.com/makersmanual).

This project is supported by G.F Smith.

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STEP 10

Connect the power input. The cable and plug can be purchased from a hardware shop.

STEP 11

Make sure all connecting screws are tight and that the output and input are connected correctly.



11

STEP 12

Switch on! Share your work on Instagram with us.



