

MAKERS MANUAL #40

Lucas Muñoz



INTRODUCTION

B.A.R.E Lamps is an ongoing exploration of Lucas Muñoz that seeks to produce light fixtures through simple and balanced element combinations. Bricks, Appliances, Rods and Electricity (B.A.R.E.) is all that these lamps feature. Off-the-shelf components that are combined to make a functioning lamp with minimum effort and cost. They were first produced for the design Materia Gris exhibition, for which Lucas created a series of systems that used the exhibition materials without bringing in or creating anything new. Instead of renting lights for the exhibition, Lucas designed these lamps for the students of Norte Joven association to produce them. During the exhibition the lamps were sold, and all the funding was donated to the Associations social project.

STEP 1

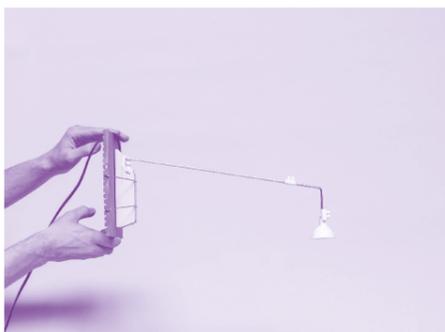
Source your components, this can be reclaimed from several places. Transformers like the one in the image are very common in halogen light installations and are often substituted. You can take advantage of this and find used ones very easily, otherwise, your local hardware store might have old models at very affordable prices, in my neighborhood I can find them for about 4 euros. Regarding the metal bars, they can be crafted by you by straightening a length of wire from a purchased roll. Take into account that it needs to 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. Input shall be, depending on your location, 120v or 240v. Output must be a number between 11 and 12V. You can read this on the print scheme it has on its back.

STEP 3

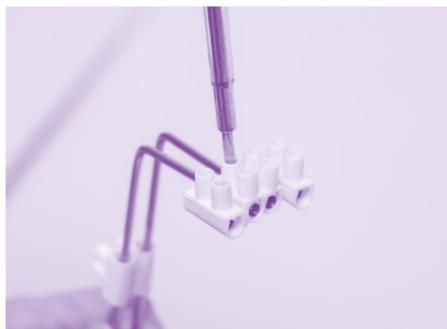
Cut two straight metal rods to the same length, you'll need to bend them to create the structure to hold the light bulb.



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, and 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 30 cm parallel to the horizon, and a fourth on to give the light bulb its direction.

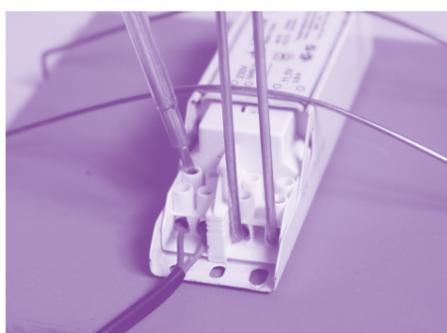


STEP 5

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

STEP 6

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



STEP 7

With two pairs of quick connectors



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 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

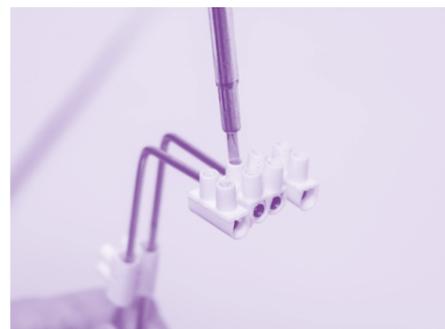
create a light bulb holder by joining them with one zip tie.

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.



STEP 10

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

STEP 11

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

BIO OF THE DESIGNER

Lucas Muñoz is a designer based between his hometown Madrid (Spain) and Eindhoven (The Netherlands). His career ranges from a variety of projects produced between his ateliers and in different places across world such as India, South Korea, Lebanon or Thailand to name a few. Lucas' 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. Lucas has developed exhibition and interior design projects developing his practice through the work he makes. Within the last year Lucas has developed a restaurant project MO de Movimiento in Madrid, and has worked on the sociological study 'The Rocket Trail' that he translated into an exhibition, an archive and a docufilm conceptualized, co-directed and produced by Lucas.

FURTHER READING

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

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STEP 12 Switch on!



