

VELO lamp

By

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Image not found

VELO lamp <https://www.instructables.com/VELO-lamp/>
https://www.instructables.com/VELO-lamp/org/images/remake/1321463408a39e73.jpg

Project Type

Make-it-Yourself

Category

Lighting

Waste Materials

Bike Parts,

Hits

5,255

Velo is a unique table lamp reproduced from one single bike wheel. The main structure is formed by closely interweaving bike spokes through their original holes in the wheel hub. The high carbon content of most bike wheel parts make them virtually impossible to break down and recycle; the Velo lamp is produced from these parts. The variation in color, size and form of bicycle wheels, provides each Velo lamp with a unique aesthetic.

VELO

DESTRUCTION MANUAL



7 Using round-neck files and a steel rule, gently bend in all the outer number of spokes at the five mark. The smaller part of the spoke should be bent up inside to 90 degrees and held.



8 Repeat straight spokes into a position facing the hub when the spokes are bent and be bent to the right then, depending on the bottom set of tubes, cut through the bottom set of tubes.



9 Insert bent spokes into alternate holes in the hub shell. The unthreaded end will be pushed through first, diagonally. Note the top set of holes, down through the top set of holes. (See image 2)



10 Bend all spoke flange ends into the hub shell. Apply a small amount of force into the gear teeth. (See image 2)



11 Cut the 2 inner inside lighting cord into 2 x 3 inner lengths, connect cords to light switch and main plug. Feed the unconnected end through the hollow hub shell.



12 Connect the light cord to the light bulb. Using a utility knife, cut the cord in half at the bottom of the hub shell. (See image 2)



1 Remove the tire and tube. Without an innermost tyre if present, remove the spokes from the hub, turning the 2 sets, across axis in opposite directions using 2 x Adjustable Spanners.



2 Remove excess rubber wheel lining thoroughly using a utility blade to reach center. Spoke flange are now exposed.



3 Flatten all spoke flange using a flathead screwdriver. Flatten the spoke flange using flat file, if they are otherwise spines from hub shell.



4 Secure hub shell (pictured black) into a Metal Lathe machine; the unthreaded end of the hub shell should be exposed. Set the internal cutting diameter to 20mm.



5 With the wheel in the lathe, turn the hub shell. Make sure the utility knife is held at a sharp angle before drilling. Slowly drill into the hub shell.



6 Remove all dirt and all inner spokes and hub shell using a sharp utility knife. Make to dry, then clean with 90% alcohol using fine wire wool. Mark all spokes down from threaded end.









Materials & Equipment List

Product Components
Re- Used - Bike Wheel Hub Shell- Stainless Steel Spokes
Additional - E14 Filament Light bulb- SES Nickel light bulb holder - Light switch and wall plug- Textile lighting cord
Equipment- Long + Round Nose Pliers- Flat + Cross Head Screwdriver- Metal Lathe Machine (26mm cutting bit)- Fine Wire Wool- EcoGlue (or any eco-friendly adhesive) - Clean Cloth- Steel Ruler- 2 x Adjustable Spanner- 1 x Scrap Plywood Sheet (10 x 10cm)

Making Instructions



