



## Lego Compatible Disc Buttons



clothbot

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### Summary

[Testing import from Thingiverse - <https://www.thingiverse.com/thing:1005>  
] How do you make a great idea like...

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[Testing import from Thingiverse - <https://www.thingiverse.com/thing:1005> ]

How do you make a great idea like Makerbot-printable 3D-printable (clothing) buttons better?

Why, make them Lego Compatible! Naturally.

Update 2009/10/04: In the design files, the knobs are 5mm in diameter. I remeasured my source Lego disc after getting back some Shapeways test prints and the Lego knobs are actually closer to 4.8mm in diameter. I lucked out with my MakerBot 3D-printed buttons; shrinkage brought them down to about 4.9mm in diameter. The Shapeways printed versions are more accurate, 5.00mm diameter, +/- 0.05mm. There's enough give in the

plastic materials for them to still fit 'regulation size' lego blocks, but the metal one was simply too wide a diameter.

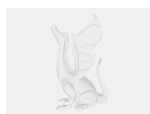
Update 2009/11/07: I've been playing around with OpenSCAD (<http://www.openscad.org/>) and came up with the attached DiscButton\_20091107 variation. I even added bottom "sockets" to this variation. It's almost too easy when it's all code!

Disclaimer: LEGO is a trademark of the LEGO Group and these explorations are in no way associated with LEGO Group. Heck! The files are CC-licensed; nothing to stop them embracing and extending it themselves if they so chose! ;-)

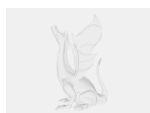
## **Print instructions Licence: Creative Commons - Attribution Instructions**

1. Download the STL. It prints four buttons.
2. Raft STL in skeinforge
3. Print resulting gcode.
4. Ream out holes. I just used a couple of my Makerbot3D-printer-assembly hex keys.
5. Sew onto clothing. Use the smaller inner holes for the thread so the larger outer holes remain unobstructed.
6. Download the SketchUp source and adapt the design to your application.

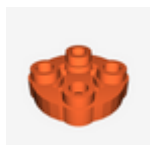
## **Model files**



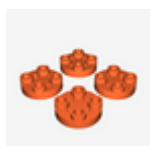
**discbutton.skp**



**discbutton\_20091107.scad**



**discbutton\_20091107.stl**



**discbutton.stl**

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