



Quadlock Mount (Locking Mechanism)



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Summary

Quadlock mount with built in spring

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This is a mount that interfaces with a quadlock case. It functions like the quadlock mount that you can buy, but it prints as a single piece, as I've incorporated the orthoplanar spring from BYU to make it function as a compliant mechanism.

I've designed it to be able to print without supports. Once printed you might need to place flat on a table and pull down hard on the chamfered flange of the outer part to detach it from the inner part.

It has a hole to fit an M3 screw on the back side if you want to fit it to something, otherwise you can use double-sided adhesive to stick it to a surface.

If you want to make any modifications a stp file has been included.

Enjoy!

Print Settings

Printer Brand:

Creality

Printer:

CR-10

Rafts:

No

Supports:

No

Resolution:

0.2mm

Infill:

15%

Filament: eSun PLA+ Black

Notes:

Bed temp 60degC

Extruder temp 205degC

60mm/s print speed

Ensure perimeters have bridging settings applied.

See attached S3D print profile for more settings.

Category: Mobile Phone

Model files



integrated_quadlock_v4b.stl



integrated_quadlock_v4.stp

[Find source .stl files on Thingiverse.com](#)

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