



Black Diamond Storm 400 LED Headlamp Latch Replacement (now includes lever too)



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Summary

Black Diamond Storm 400 LED Headlamp Latch Replacement in case yours breaks



0.21 hrs



3 pcs



0.20 mm



0.40 mm



PLA



1 g



Prusa
MK3/S/S+

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My head torch broke randomly when I was out on a hike and changing the batteries. I'd only had it for a month or two when it happened and didn't want to just throw it away because it cost a good £30. All that had broke was the latch that held the back case shut and although it's a bit of a pain to disassemble and punch the pin out, it is doable.

I made a replica from measuring the broken part which is better suited to resin because it doesn't have a flat face to stick to a FDM build plate, and a simpler version which should work on FDM printers which is just a flat version. It may require some clean up as the hole on the part can shrink depending on what material you use so recommend running a drill bit through it.

I've had mine fixed for a good while now. I've been on runs and hikes with it with a PLA latch and it's been perfectly fine, but of course, even if you break the latch again, you can just print another one!

If you need to mod, I've included the step file.

EDIT: I've updated the description and also included a print file with 4 latches with and without brims. I recommend printing more than one just to allow the part to cool between layers.

Edit 2: As per request, I've included the lever as well. This one is a little more difficult as it has an overhang so if you have a resin printer that might be the better option, otherwise you will just have to live with a rough face. I've never used this part so don't know if it works, like before just use a drill bit to clear the holes as necessary.

Model files

 **FDM Latch** 2 files

 **custom_latch_fdm.stl**

 **custom_latch_fdm.stp**

 **Resin Latch** 2 files



replica_latch_resin.stl



replica_latch_resin.stp



Lever

1 file



lever.stl

Print files



custom_latch_fdm_02mm_pla_mk3s_15m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 0.24 hrs ⚖️ 1 g 🖨️ Prusa MK3/S/S+

☐ This print file has 4 latches WITH brims



custom_latch_fdm_02mm_pla_mk3s_12m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 0.20 hrs ⚖️ 1 g 🖨️ Prusa MK3/S/S+

☐ This print file has 4 latches WITHOUT brims



lever_02mm_pla_mk3s_13m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 0.21 hrs ⚖️ 1 g 🖨️ Prusa MK3/S/S+

☐ This print file has 1 lever WITH brims

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