



## Hex/ Allen Key Handle (M3 Key for original Prusa i3 MK3 & MMU2S kit)

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### Summary

Following on from the file handle, I thought I'd upload another useful item which has saved more than a few callouses...



3.47 hrs



3 pcs



0.15 mm



0.40 mm



PLA



26 g



Prusa  
MK3/S/S+

[3D Printers](#) > [Accessories](#)

Tags: [prusa](#) [tool](#) [holder](#) [handle](#) [hex](#) [key](#) [toolholder](#)  
[hexkey](#) [hexkeyholder](#) [hexkeyhandle](#) [prusahexkey](#)  
[toolhandle](#)

Following on from the file handle, I thought I'd upload another useful item which has saved more than a few callouses on my fingers - a means to hold a hex or Allen key comfortably, while in use.

There are a few different sizes needed, largely due to the varied lengths of the short 'handle' end, which need to be inserted up through the underside of the handle(s) and then slid along into place.

However, this item is to fit the hex key for an M3 hex-headed bolt, a standard size on the original i3 Mk3 and MMU2S kits from Prusa.

It requires being made in two halves which then fit together (top to bottom) in similar fashion to the file handle (<https://www.thingiverse.com/thing:3490434>) uploaded previously.

## **Print Settings**

### **Printer Brand:**

Prusa

### **Printer:**

i3 MK3

**\*\*Rafts:\*\*** Doesn't Matter

### **Supports:**

Doesn't Matter

**\*\*Resolution:\*\*** 0.15mm Quality

### **Infill:**

30%

**\*\*Filament:\*\*** [ Generic PLA ](<http://www.amazon.com/s?url=search-alias&field-keywords=Generic+PLA&tag=thingiverse09-20>) Colour to suit purpose

### **Notes:**

As usual, I prefer at least 30% for tool-related items (for strength) and use brims by default for mating surfaces which are printed direct on the heatbed.  
Each half takes roughly 1hour 45min to print, while the build plate takes around 3hours 40min.

Post-Printing - **\*\*Fitting it all together\*\***

If the sections are printed separately, there ought to be less stringing. In this instance I found it unnecessary to use inserts to bring the two halves neatly together, but more care and accuracy is therefore necessary.

If using inserts for smooth mating between the two halves however, the holes for them are 3.25mm in diameter, so an M3 screw (with the head removed) of 6mm length, with a thin wrap of paper around the end as a shim and it should fit quite neatly.

Superglue is the quickest method of securing the two halves together - Be careful not to glue your fingers instead though - and always keep a small bottle of debonder or acetone to hand just in case!

When the two halves are secured together, there may be some filing necessary in order to smooth over the seam in the handle and finish it properly.

To use the handle, the short end of the hex key is inserted into the slot in the lower half, with the point toward the middle and the bend at the opposite end of the slot. The key is then simply slid along the slot until the inside of its bend is in the middle of the slot and the key is thus secured in place.

While the handle may appear a little oversized for the length of the key, it does provide a reasonable amount of fine adjustment.

Category: Hand Tools

## Model files



**3mm\_hex\_key\_handle\_top\_015mm\_pla\_mk3.stl**



**3mm\_hex\_key\_handle\_bottom\_015mm\_pla\_mk3.stl**



**3mm\_hex\_key\_handle\_build\_plate\_015mm\_pla\_mk3.stl**

# Print files



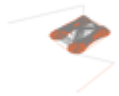
## 3mm\_hex\_key\_handle\_top\_015mm\_pla\_mk3\_015mm\_pla\_.gcode

🌀 PLA 📏 0.40 mm 📏 0.15 mm ⌚ 1.73 hrs ⚖️ 13 g 🖨️ Prusa MK3/S/S+



## 3mm\_hex\_key\_handle\_bottom\_015mm\_pla\_mk3.gcode

🌀 PLA 📏 0.40 mm 📏 0.15 mm ⌚ 1.76 hrs ⚖️ 12 g 🖨️ Prusa MK3/S/S+



## 3mm\_hex\_key\_handle\_build\_plate\_015mm\_pla\_mk3\_01.gcode

🌀 PLA 📏 0.40 mm 📏 0.15 mm ⌚ 3.47 hrs ⚖️ 26 g 🖨️ Prusa MK3/S/S+

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

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