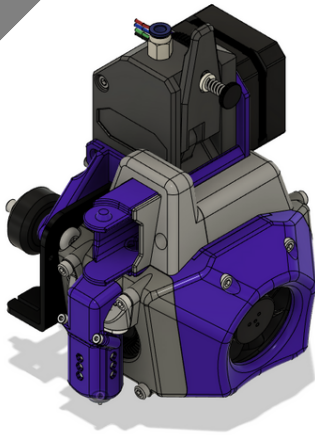


3D MODEL ONLY



Ender 3, PRO, V2 mods (P.1)



Mr.HuyNguyen

[VIEW IN BROWSER](#)

updated 22. 6. 2022 | published 19. 5. 2022

Summary

Direct drive BMG, BL Touch, dual blowing fans, 4015 fan, etc

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [bltouch](#) [bondtechbmg](#) [cablemanagement](#) [directdrive](#)
[dualfan](#) [ender3v2mods](#) [upgrades](#) [ender3](#) [ender3pro](#)

If you find this thing useful, please consider sending a tip. Many thanks!

<https://www.paypal.com/paypalme/mrhuy01081999>

Description

This is an upgrade kit of the Ender 3 V2 hot-end module. Consists of:

- A mount of direct drive **BMG BondTech extruder kit** and stepper motor NEMA 42x22 0.8A.
- Mounting and covering **BL Touch** from **Creality**.
- A duct of dual-blowing and 4015 front fans.
- Cable management.

How I Designed This

Autodesk Fusion 360

Print Settings

Printer Brand:

Creality

Printer:

Ender 3 V2

Rafts:

No

Supports:

Yes

Resolution:

0.2mm

Infill:

40%

Filament:

ESUN PLA +

Color:

Suite yourself

Notes

I used an ordinary stock Ender 3 V2 hot-end kit, except for the 4010 stock fan, composite shroud of E3V2, and extruder kit.

You will need an **Extruder BMG right kit** from **BondTech** (I use a metal clone one - work fine), a **NEMA** stepper motor 42x22 0.8A, a **BL Touch kit** from **Creality**, another **Creality** 4010 blower fan, and a 4015 blower fan 24V.

Beware to change the E driver's voltage and E-step. The link below will help you a hand. Give him a like if it helps.

All the parts will need some screws and **2 M3 Nylon lock hex nuts** to assemble. Following photos to assemble the suitable screws. There are

photos and videos to help you figure out to assemble the kit.
Hope you enjoyed it.

Screws list:






- Hex socket cylindrical head M2x10mm x10pcs
- Hex socket button head M3x10mm x4pcs
- Hex socket button head M3x20mm x6pcs
- Hex socket button head M3x25mm x1pcs
- Hex socket cylindrical head M3x18mm x7pcs
- Hex socket cylindrical head M3x20mm x2pcs
- Hex socket cylindrical head M3x25mm x1pcs

Link to get the videos:

https://drive.google.com/drive/folders/1QtdHxCL1w2zZkCIEPPm9K_hK5yalbpEV?usp=sharing

Let me know your thoughts and how this works out for you! Many thanks!
P/S: There are new posts and more stuff coming out soon.

Model files

	STL	11 files
	wiring-cover-a.stl	
	wiring-cover-b.stl	
	cooling-fan-duct-left.stl	
	bl-touch-wiring-cover-v2.stl	



cooling-fan-duct-right.stl



direct-drive-bmg-mount.stl



cooling-fan-4015-cover.stl



cooling-fan-duct-middle-a.stl



bl-touch-cover-v2.stl



cooling-fan-duct-middle-b.stl



bl-touch-mount.stl



3mf

11 files



wiring-cover-a.3mf



bl-touch-wiring-cover-v2.3mf



wiring-cover-b.3mf



cooling-fan-4015-cover.3mf



direct-drive-bmg-mount.3mf



cooling-fan-duct-left.3mf



bl-touch-mount.3mf



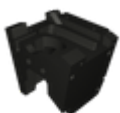
cooling-fan-duct-right.3mf



cooling-fan-duct-middle-b.3mf



bl-touch-cover-v2.3mf



cooling-fan-duct-middle-a.3mf

License

This work is licensed under a
Creative Commons (International License)



Public Domain

- ✓ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition