



## Direct Drive Artillery Hornet



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### Summary

Convert your hornet using standard parts

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Hi, this is a work in progress

THIS MODEL REQUIRES CREATING YOUR OWN CABLE/CABLES TO CONECT THE HOTEND COMPONENTES, BREAKBOARD AND PTFE COMBINED CABLE WONT BE USED ANYMORE, THE CABLE PART IS UP TO YOU

this models uses 3 parts, a base that mounts on top of the current hotend, a top plate that mounts to the base plate, and a spacer that goes between the motor and the extruder. its designed to use m3 bolts or 1/8 bolts if you cant find m3, like in Argentina for example (where i live).

there are 2 base plates, an m3 version and an 1/8 version. chose one also there are 2 spacer, one to generate the same space has the hornet extruder and motor originale have, and other smaller if you using a different extruder, you may need to try between both to get correct bolt fitting from extruder to motor

this design allow to easily remove the top part including the extruder and motor in just seconds

list of hardware required:

m3 version:

3 x m3x6

2 x m3x8 or longer

1 x m3x10 or longer

4 x m3 nuts (or 6 optionally to secure base plate more)

2 x 10mm washer OD

1/8 version:

2 x m3x8 or longer (use 2 from the heatsink fan)

3 x 1/8x6 mm

1 x 1/8x10 or longer

4 x 1/8 nuts (or 6 optionally to secure base plate more)

2 x 10mm washer OD

also you will need some 3x4mm PTFE tube, length to be determined, 10cm will be enough

How to mount:

disassembly hotend, and remove the break board, you wont use it anymore, then reassembly but leave the 2 screws that hold the yellow cover off

grab the base plate and insert 3 nuts on the spaces bellow. put the base on top of the hotend and put the 2 8mm screw but dont tight the too much, threads on the metal are not that strong, here is where you could optionally screw 2 nuts from below to secure it even more. then put the larger screw between the back hole where the break board was located, use the 2 washer, one on top, one on the bottom and use a nut to secure it, tight this very well

Put the spacer between the extruder and the motor, the bottom part will long on a cut on the base, put the small rounded edge down and forward, then put the top plate inside the extruder and assembly the extruder, if

there is a gap between your screws and the cover, you can use some of my spacers or cover on my profile

- grab the ptfе tube, it will be squished id place by the top plate when screwed, so now you need to find the length of your ptfе, it will depend on the position of your heatbrake, this means that now you can use shorter barrels like a standard bimetal v6 for example, you will need to start cutting a small piece at the time until you need a little force to make the top plate and the base meet

-screw in place the top cover using the 3 6mm screws this are the screws that will be removed if you want to perform some maintenance

Check the cable managment solution i use: <https://www.printables.com/model/530758>

this is how far i got at this point, let me know your opinions, and issues found, tks

if you enjoy any of my work, or it made your life simpler in any way, please consider showing some love [here](#) (paypal) in the form off a few cents, if don't want or cant thats just fine, have a blessed day

## Model files



**hdd-motor-spacer-and-lock-for-standar-extruder.stl**



**hdd-motor-spacer-and-lock-large-for-original-extrud... .stl**



**hdd-top-plate.stl**



**hhd-base-mount-1-8.stl**



**hdd-base-mount-m3.stl**



**hdd-motor-spacer-and-lock-whit-cable-guide.stl**

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