**BLTouch How I do it**

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BLTouch install for ANYTHING not just for Tevo

for the TEVO with the MkBase board check for D11 right nex to the Z

endstops, Check the labeling on the board and make sure the pins line up with the correct signal 5v signal and Ground.

The other plug is the Z min end stop which plug in the same way CHeck you pins and make sure they are in the right area

for Marlin Based Firmwares

I will assume you have some knowledge of the firmware before attempting this

there are a few videos on how to setup a servo for bed leveling this is no different

[https://www.youtube.com/watch?v=aws...](https://www.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DawsI9bMndJA&h=SAQH0OStm&s=1)

[https://www.youtube.com/watch?v=6ms...](https://www.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D6msLOR_EfKc&h=dAQEI2yhQ&s=1)

[https://www.youtube.com/watch?v=Ypi...](https://www.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DYpiOsetkIRg&h=nAQFaoZpN&s=1)

these 3 videos will get you running toward the numbers you need he goes into great depth and explains it out pretty well, he gets you the Ofset for X and Y.

set your Z offset for the probe ALWAYS NEGATIVE ON THE Z we will change this in a bit.

const boot Z\_MIN\_ENDSTOP\_INVERTING= false; (normally TRUE)

you need to set you ANGLE as {10,90} in the servo section

BLTouch from here will be the critical Z offset. because it uses a hall effect sensor it "falls" then triggers.

now to the machine move you Z up about +50mm so you have some room to move, type the follow into your G console

G1 Z50

G28 X0Y0

G1 X100Y100

this should put the probe out over the bed

G30 <--- this will have the Z home in its current position it will start to come down tap the probe that has extended out and it should "bump back" and rest ... if not STOP recheck everything you have done up till now and try again

if it stop and hold go ahead and lower the Z axis via console down to about 10mm or so above the bed

G30 again and now it should go down and then you should have the nozzle above the bed.

G1 Z0 F200 that should slowly move the nozzle to what the machine thinks is Z0

now check you clearance with paper, feelers, how ever you do it, I use paper

move the nozzle closer till you have just a bit of drag, look at you number

M114 will show you the number you have for you offset below the Z add this or subtract this to the current number you have before

IE -1.2(from the first reading) new is -0.3 so the new ofset will be -1.5

either in the firmware type that number and push new numbers to the board via upload

or on the console goto menus

Control->>Motion->>Z Offset and change the numbers in there

once you repeat this and have a nice offset either upload it to the firmware or save it in via the console

Control ->> Store Memory

this should get you up and running on this BLTouch with ANY marlin firmware not just the TEVO

Ken "KaTZWorld" Stewart

I don't do public speaking and sometimes its even harder to type out what you are thinking so if I missed something or you can't get past a step find me I can help you maybe ?!