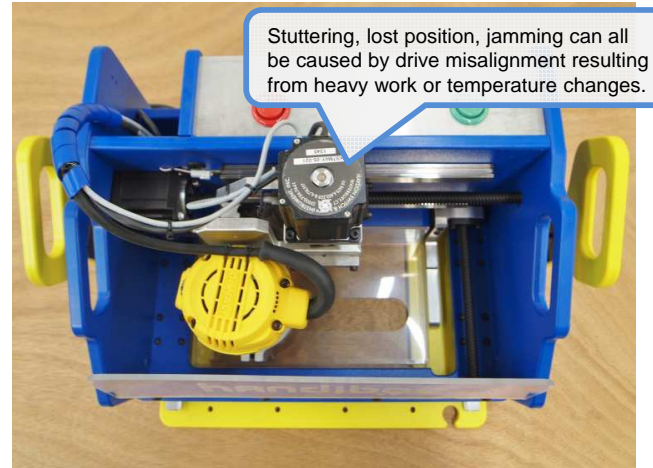
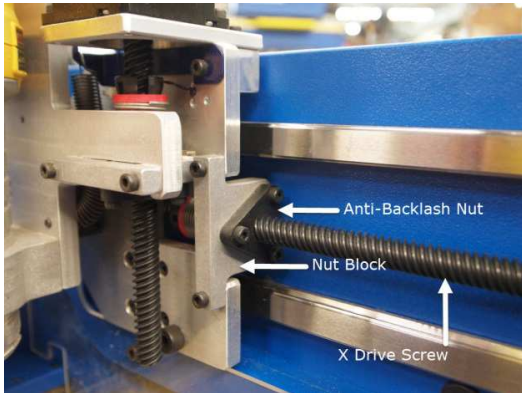


Aligning Drive Mechanism on Handibot v1.0-v1.1

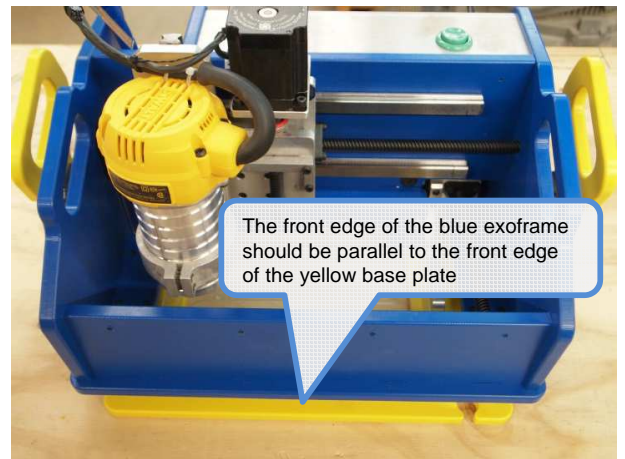
1 Do you need this?



2 This adjustment will require loosening bolts on the anti-backlash nut and nut block for each axis to bring them into alignment with the drive screw

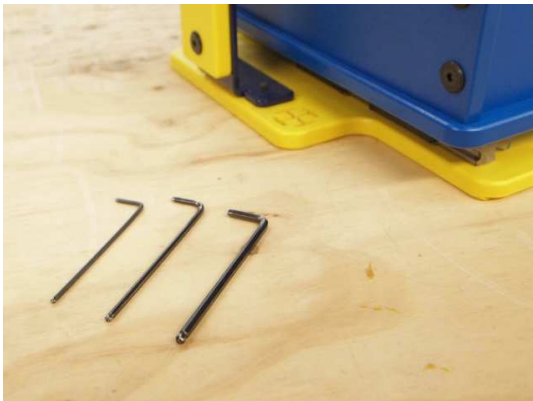


3 Before starting, check that the exoframe is square to the baseplate.

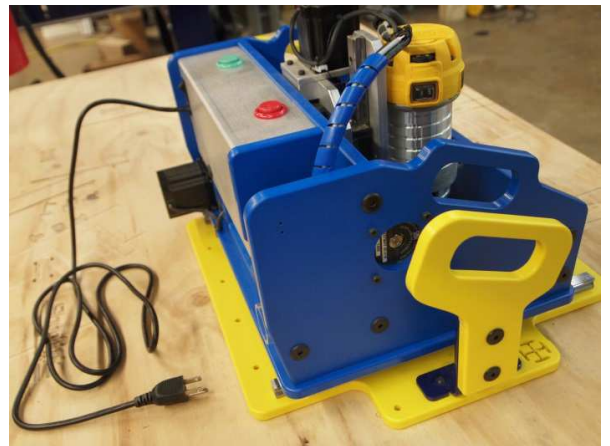


4 Tools needed:

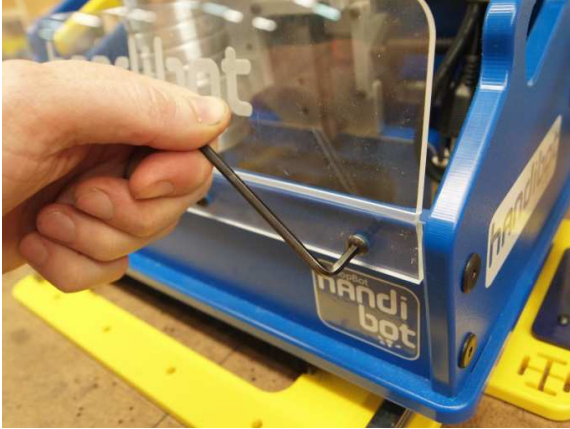
- 2.5mm hex key
- 3mm hex key
- 4mm hex key



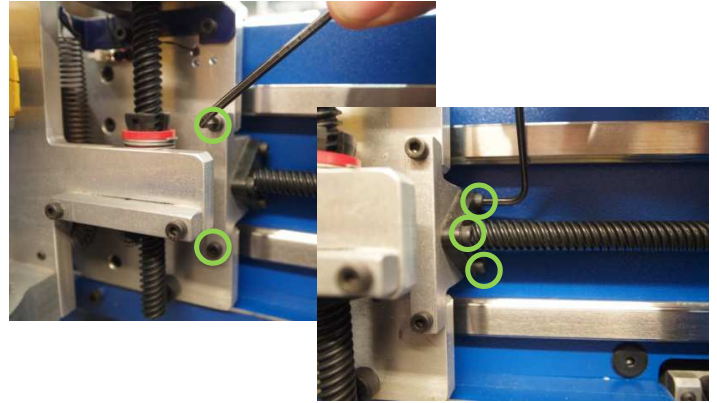
5 Before starting, turn off power to the tool and unplug!



- 6** Remove the front shield using the 3mm hex key for the v1.0 style, or simply lift the shield off for v1.1 style



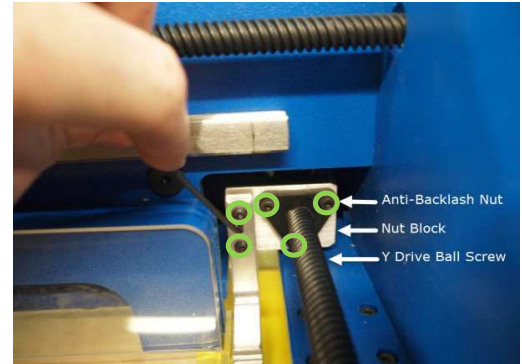
- 7** Manually push the cutter assembly along the x-axis until it rests about 1" (25mm) from the x motor. Loosen the 5 screws holding the x drive in place using the 3mm hex key.



- 8** Check that the lead screw is centered in the hole in the right side of the exoframe. Rotate the screw a few times and then re-tighten the 5 screws holding the x drive. If the lead screw is not aligned, skip to step 11.



- 9** Push the exoframe back until the Y anti-backlash nut is about 1 inch from the y motor. Loosen the 5 screws holding the y drive in place using the 3mm hex key and 2.5mm hex key.



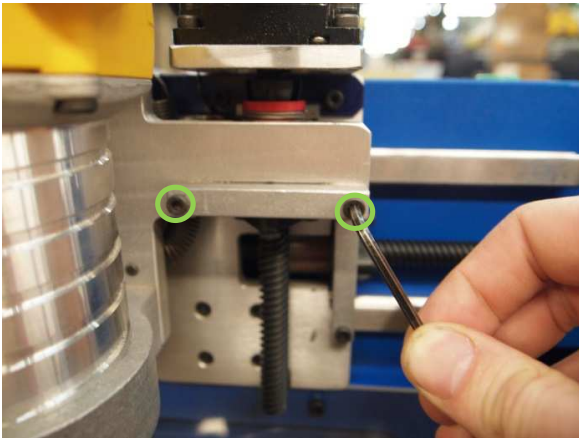
- 10** Check that the Y lead screw is centered in the clearance hole. Give the screw a few turns and then tighten the 5 screws holding the y drive. If the lead screw is not centered, skip to step 11.



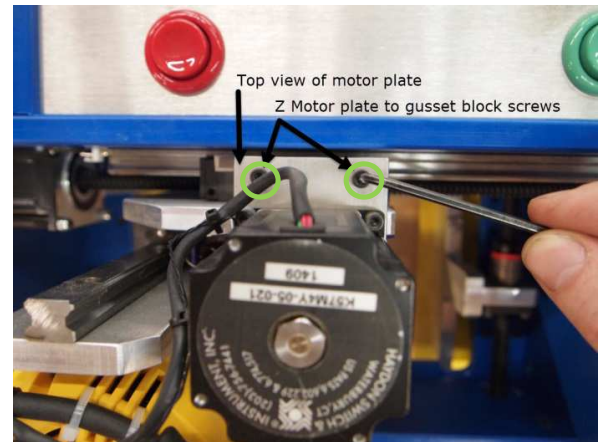
- 11** If you find that your lead screw is not centered in its clearance hole, loosen the four screws holding the motor for that axis in place and carefully move the motor until the lead screw is centered. Retighten the bolts carefully to avoid digging into the plastic of the exoframe.



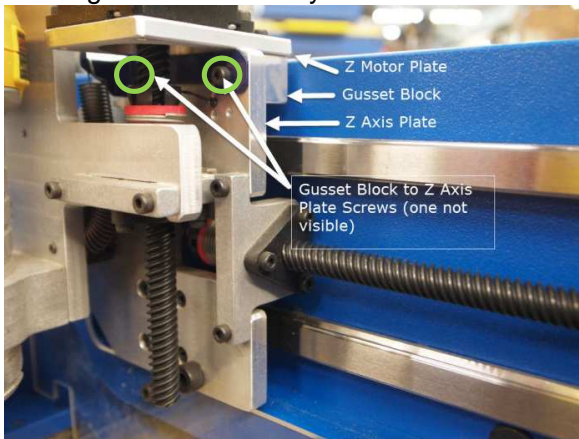
- 12** Loosen the 2 screws holding the Z anti-backlash nut in place using the 3mm hex key



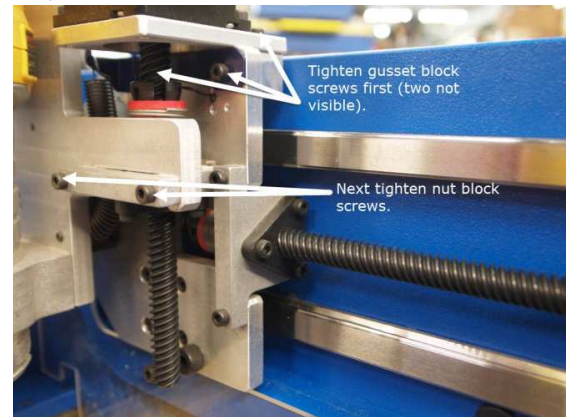
- 13** Loosen the 2 bolts holding the Z-Axis motor plate to the Z Gusset block using the 3mm hex key



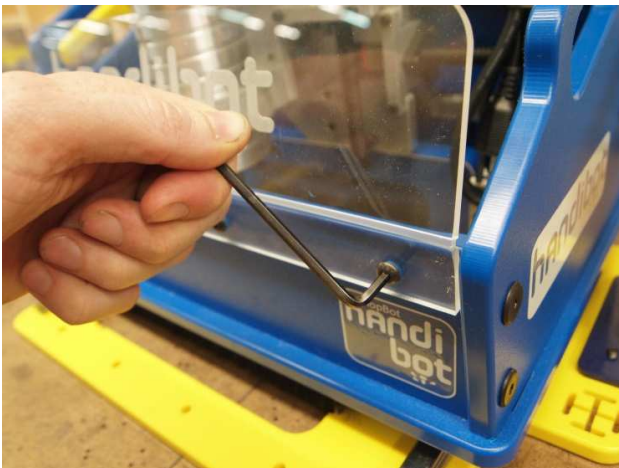
- 14** Loosen the two screws on the front of the carriage plate that hold the Z gusset block using the 3mm hex key



- 15** Check that the Z motor shaft is aligned vertically and then tighten down the 4 bolts holding the gusset block. Give the shaft a few turns and then tighten down the nut block screws.



- 16** Reattach your front shield



- 17** Plug your tool in and turn it on. Drive it around manually to check that performance has improved.

