MICROSMT PNP-V3 assemble manual

Ver 1.0

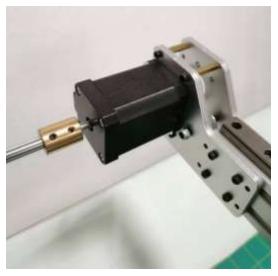
2022-11-10

Please download and read the other two documents at the same time microsmt_PNP_V3_ frame Installation diagram.pdf microsmt_pnpboard_v1.7_manual.pdf

STEP 1: Print all green 3D parts



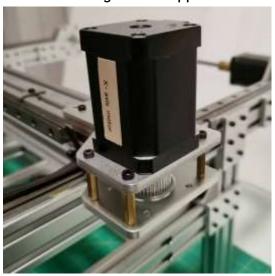
STEP 2: Installing Y-axis stepper motor





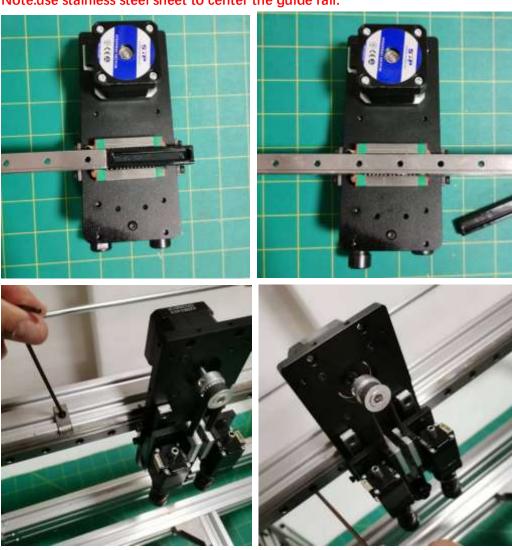


STEP 3: Installing X-axis stepper motor



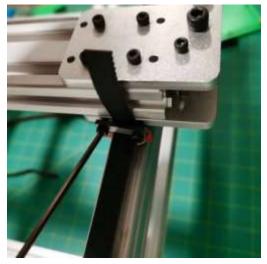
STEP 4: Installing mounter head

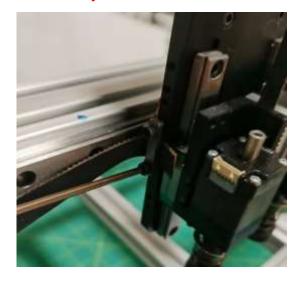
Note:use stainless steel sheet to center the guide rail.

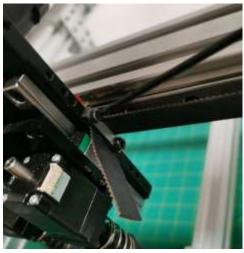


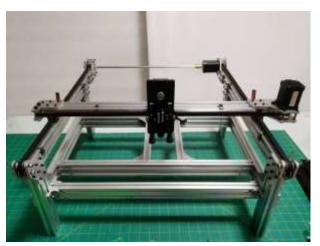
STEP 5 : Installing belt

Note: The belt must be tensioned, otherwise the accuracy will be affected



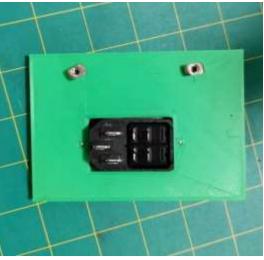




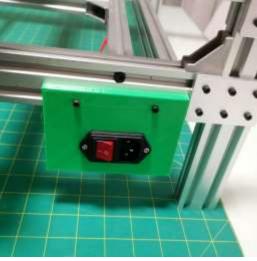


STEP 6 : Installing the AC power socket









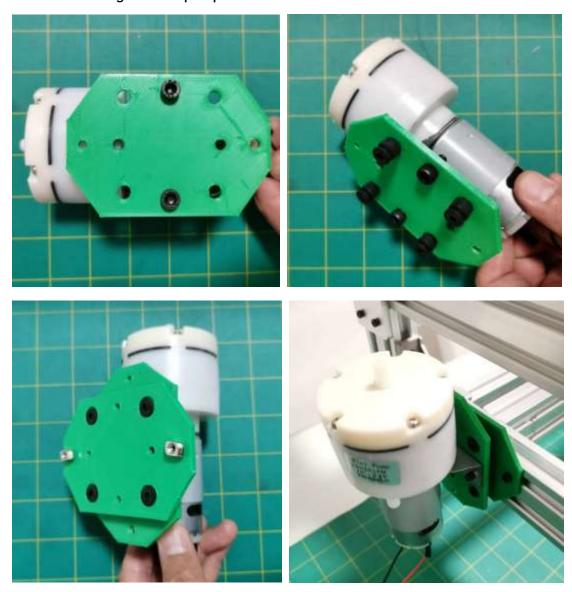
STEP 7 : Installing 24V switching power supply



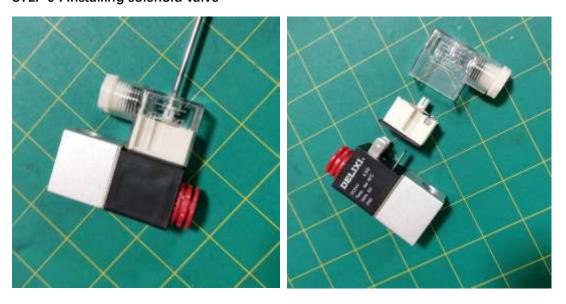


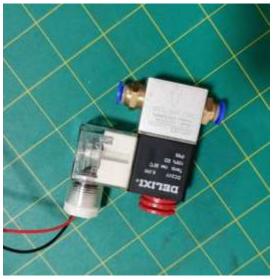


STEP 8 : Installing Vacuum pump

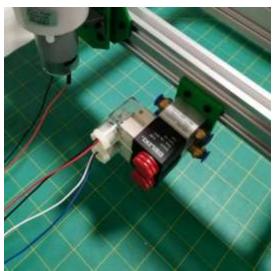


STEP 9 : Installing solenoid valve

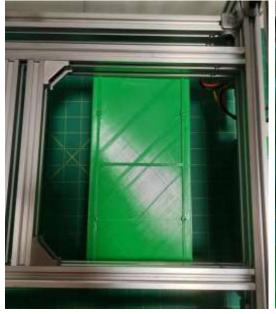


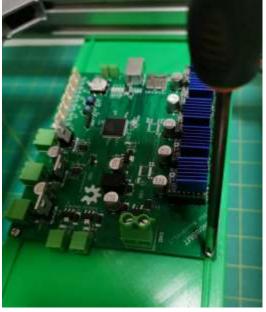






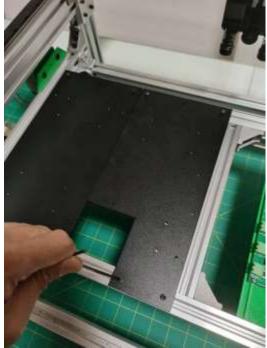
STEP 10 : Installing motherboard



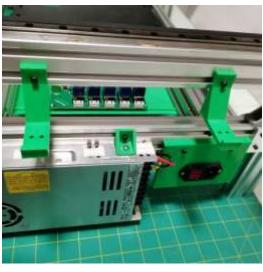


STEP 11 : Installing aluminum alloy platform



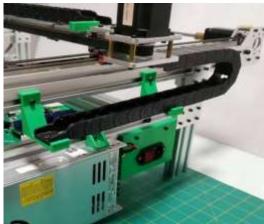


STEP 12: Installing Y-axis tank chain



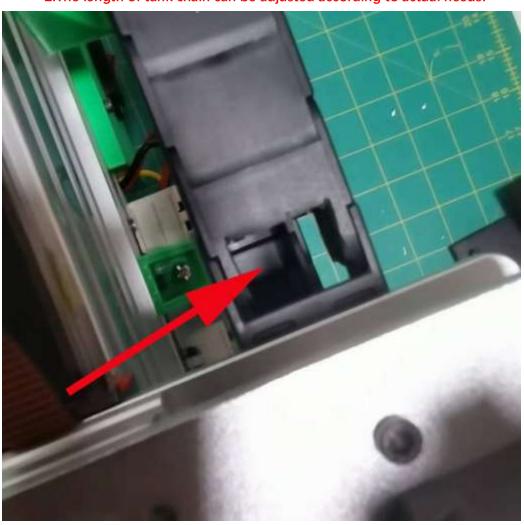




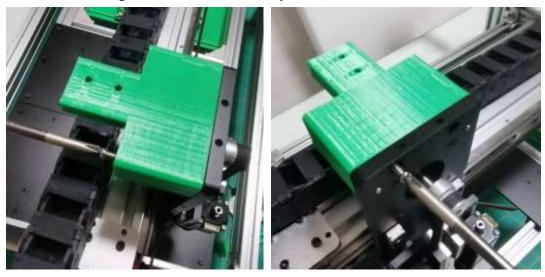


Note: 1:Here, part of the plastic should be cut to form a hole, because the X axis wire will enter the Y axis tank chain from here.

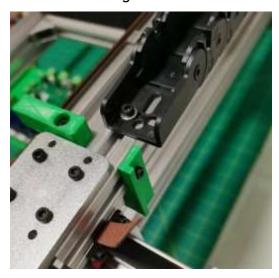
2:The length of tank chain can be adjusted according to actual needs.



STEP 13: Installing the Z-axis motor cover plate

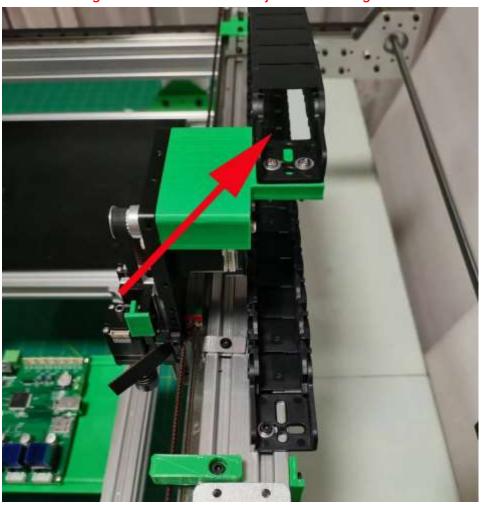


STEP 14 : Installing the X-axis tank chain





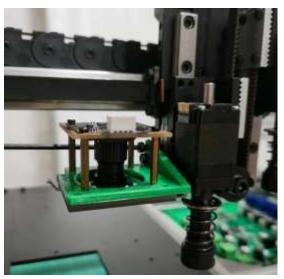
Note: 1.turn this connector upside down. The wire will come out of this hole 2. The length of tank chain can be adjusted according to actual needs.



STEP 15 : Installing the top camera

Note: The camera must be installed horizontally, otherwise the accuracy will be affected





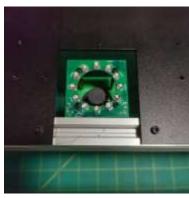
STEP 16: Installing the bottom camera

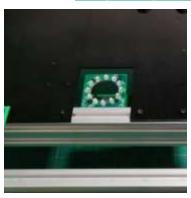
Note: 1:The camera must be installed horizontally, otherwise the accuracy will be affected

2: The total length of copper column is 37mm, which is connected by two sections.

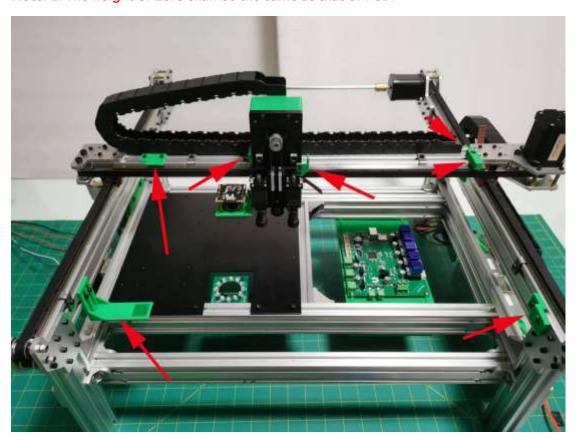


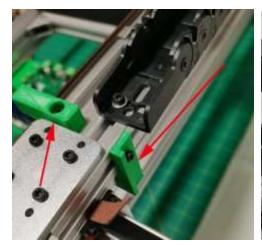


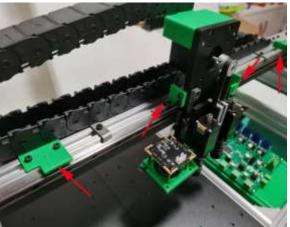




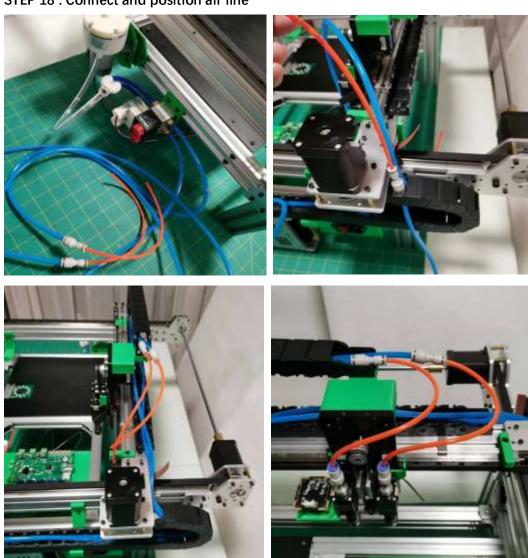
STEP 17 : Install the remaining 3D printing accessories Note: 1: The height of Zero shall be the same as that of PCB.





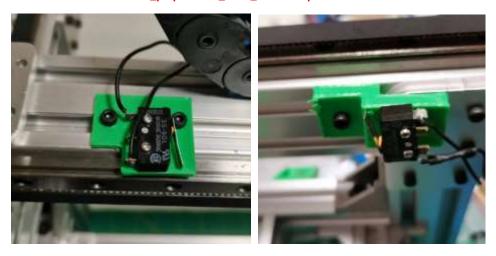


STEP 18: Connect and position air line



STEP 19 : install endstop switch

Note: know the principle of endstop switch and connection mode, please refer to the document microsmt_pnpboard_v1.7_manual.pdf.





STEP 20: install cable

Note: X-axis endstop cable need not put in X-axis tank chain.

Y-axis endstop cable need not put in all tank chain.

X-axis stepper motor cable need not put in X-axis tank chain.

Y-axis stepper motor cable need not put in all tank chain.

