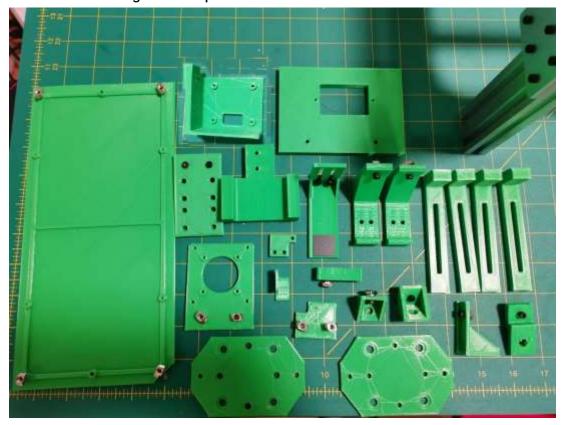
MICROSMT PNP-V3 assemble manual

Ver 2.0

2023-09-04

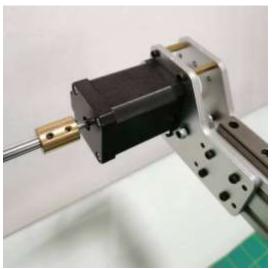
Please download and read the other two documents at the same time microsmt_PNP_V3_ frame Installation diagram.pdf microsmt_pnpboard_v1.7_manual.pdf

STEP 1: Print all green 3D parts

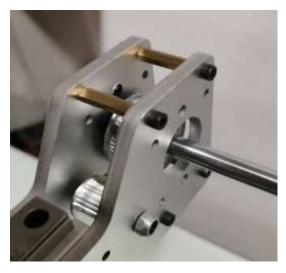


Note: total of 19 accessories need to be printed. Please refer to the 3D drawing folder.

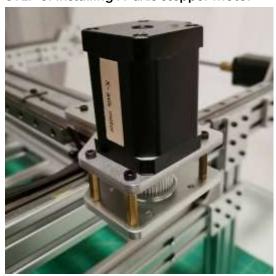
STEP 2: Installing Y-axis stepper motor







STEP 3: Installing X-axis stepper motor

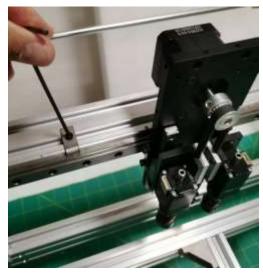


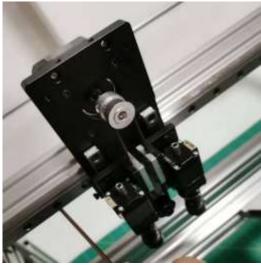
STEP 4: Installing mounter head

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

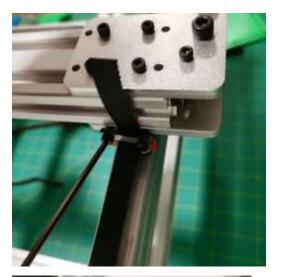


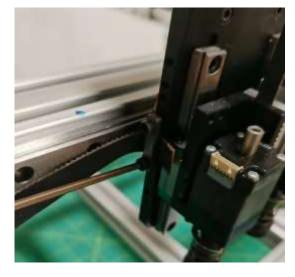


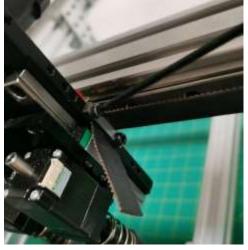


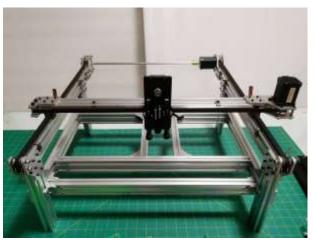


STEP 5 : Installing belt
Note: The belt must be tensioned, otherwise the accuracy will be affected





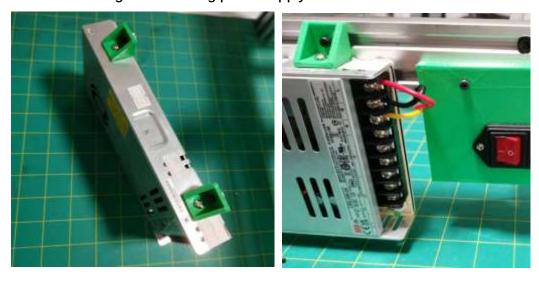




STEP 6 : Installing the AC power socket

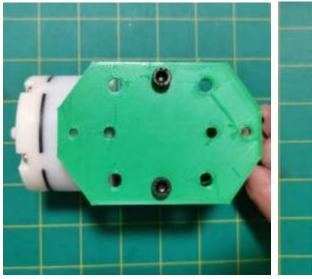


STEP 7 : Installing 24V switching power supply





STEP 8 : Installing Vacuum pump



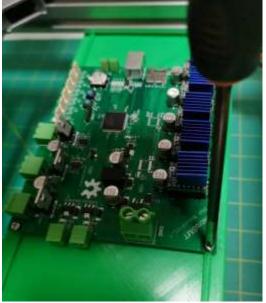






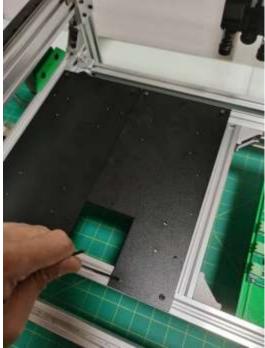
STEP 9 : Installing motherboard



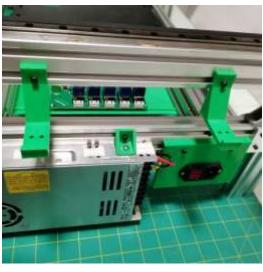


STEP 10 : Installing aluminum alloy platform



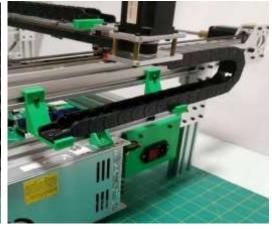


STEP 11: Installing Y-axis tank chain



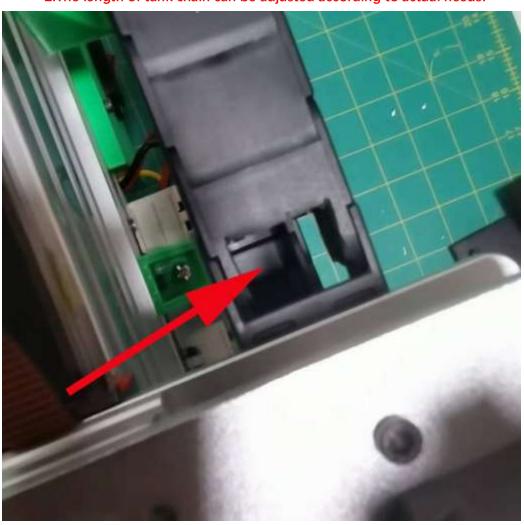




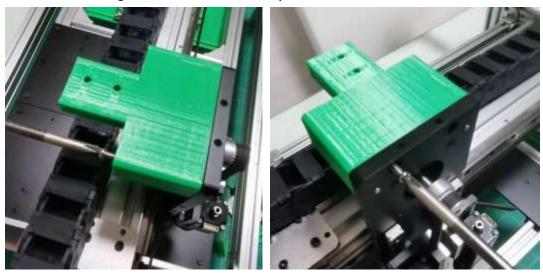


Note: 1:Here, part of the plastic should be cut to form a hole, because the X axis wire will enter the Y axis tank chain from here.

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



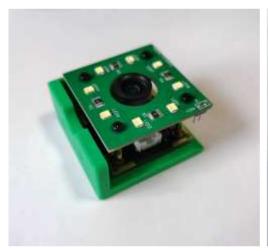
STEP 12: Installing the Z-axis motor cover plate

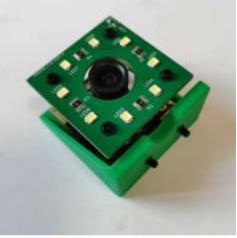


STEP 13: Installing the top camera

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

2: Manually rotate the lens to change the focus.

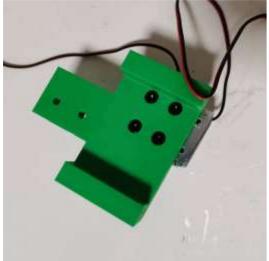




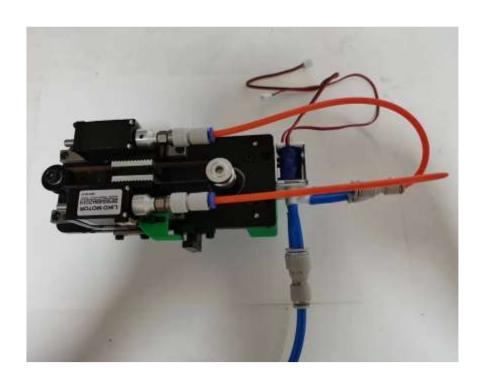


STEP 14: Installing the solenoid valve



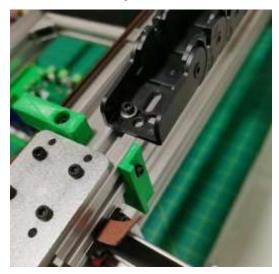






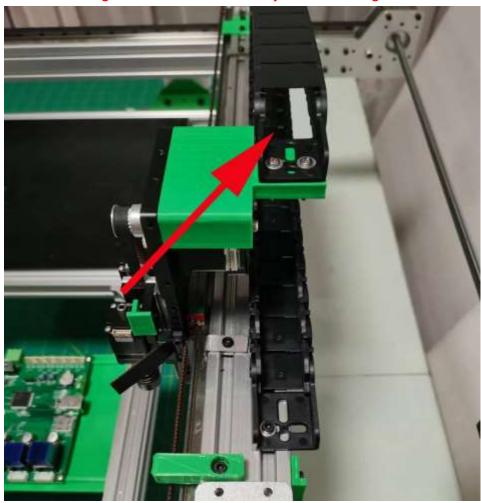


STEP 15 : Installing the X-axis tank chain





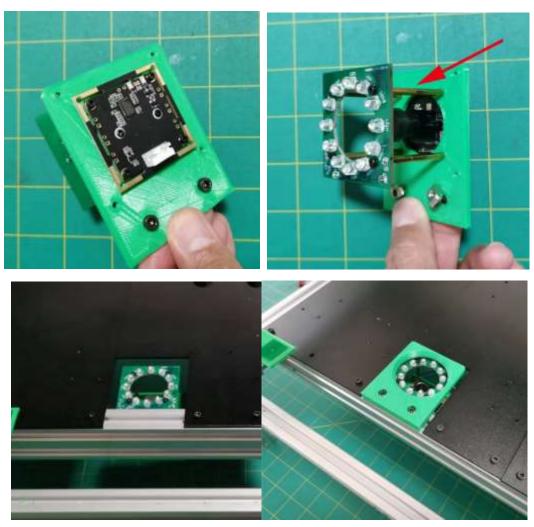
Note: 1.turn this connector upside down. The wire will come out of this hole 2. The length of tank chain can be adjusted according to actual needs.



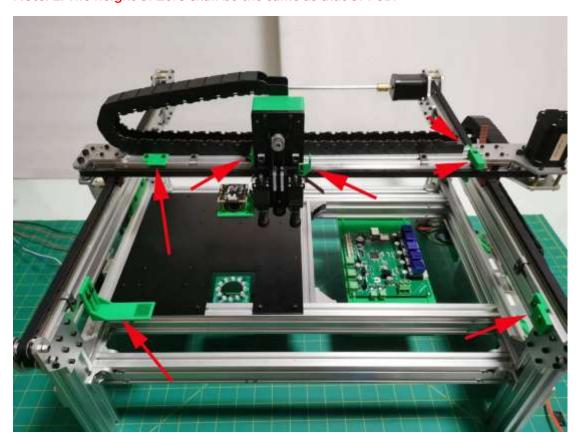
STEP 16: Installing the bottom camera

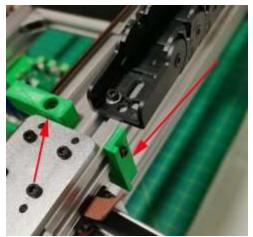
Note: 1:The camera must be installed horizontally, otherwise the accuracy will be affected

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



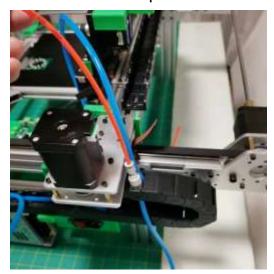
STEP 17 : Install the remaining 3D printing accessories Note: 1: The height of Zero shall be the same as that of PCB.







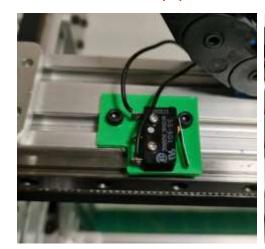
STEP 18 : Connect and position air line

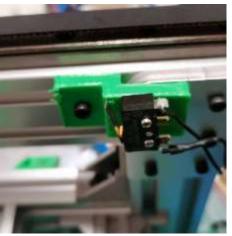




STEP 19: install endstop switch

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.

