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Genmitsu 60 Close loop Stepper

Genmitsu 60 Close loop Stepper Installation Guide

Contents

GENMITSU

Genmitsu 60 Close loop Stepper

Welcome

- Thank you for purchasing the Upgraded Close-Loop Stepper Motor Kit for PROVERXL 4030 from SainSmart.
- For technical support, please email us at **support@sainsmart.com**.
- Help and support is also available from our Facebook group. (SainSmart Genmitsu CNC Users Group) Scan the QR code to find information.

Part list

(4) Close-loop
Stepper Motor

Control Box

X/Y Drag Chain

(2) M4*12 Socket
Head Cap Screws

(2) M5*50 Socket Head
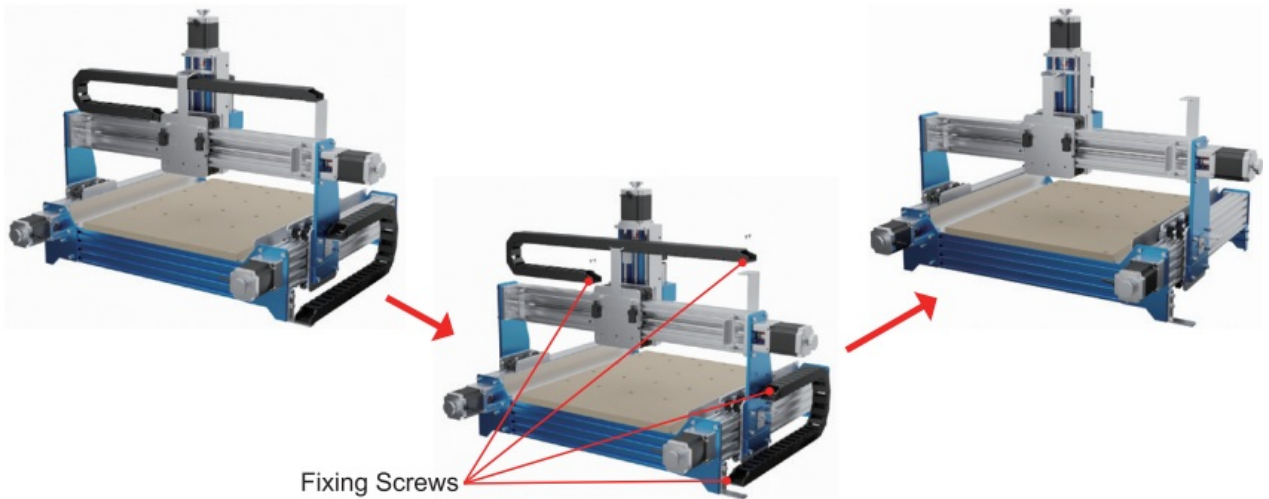Cap Screws

(2) M5*55 Socket Head
Cap Screws
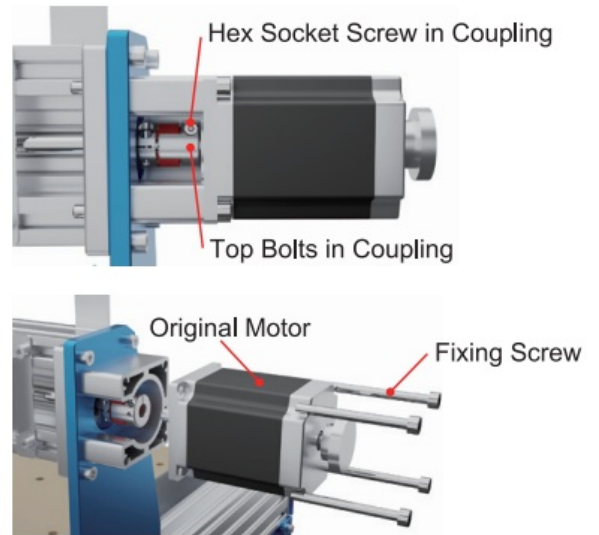
Hex Key Set [2,2.5,3,4]

Installation Guide

1. **STEP 1:** Remove the X-Axis and Y-Axis Drag Chain
   - Remove all Axis motor wiring, unscrew the X-axis drag chain and Y-axis drag chain fixing screws, remove the drag chain, and keep the screws for backup.
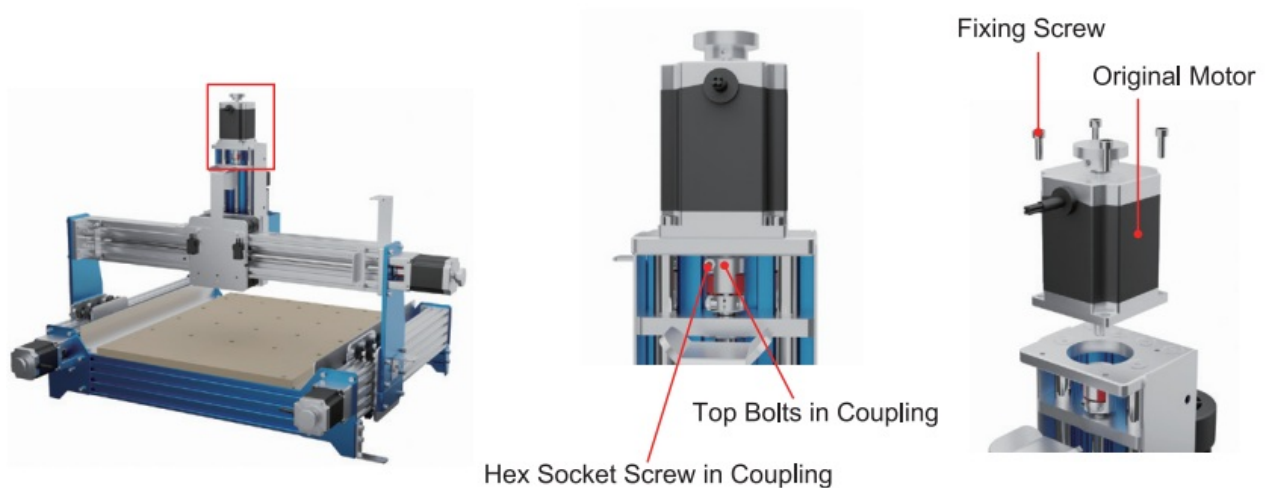

Fixing Screws

2. **STEP 2: Remove X-Axis Motor**
   - Loosen the top bolts and socket head cap screw on the motor-facing side of the X-axis coupling, remove the 4 X-axis motor screws for backup, and remove the X-axis motor.

Hex Socket Screw in Coupling
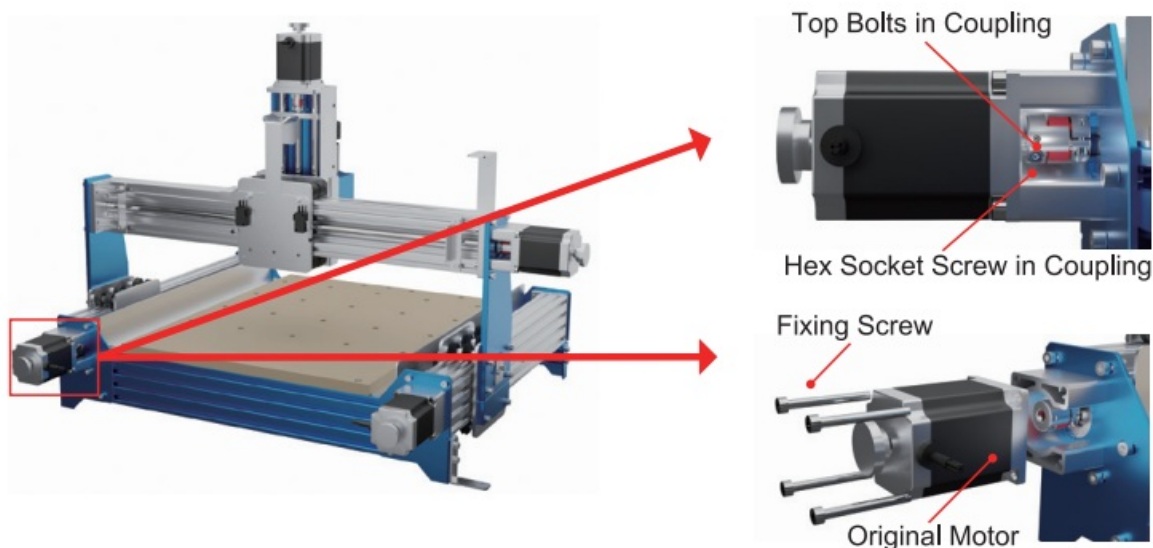Top Bolts in Coupling
Original Motor
Fixing Screw

3. **STEP 3: Remove Z-Axis Motor**
   - Loosen the top bolts and socket head cap screw on the motor-facing side of the Z-axis coupling, remove the 4 Z-axis motor screws for backup, and remove the Z-axis motor.

Fixing Screw
Original Motor
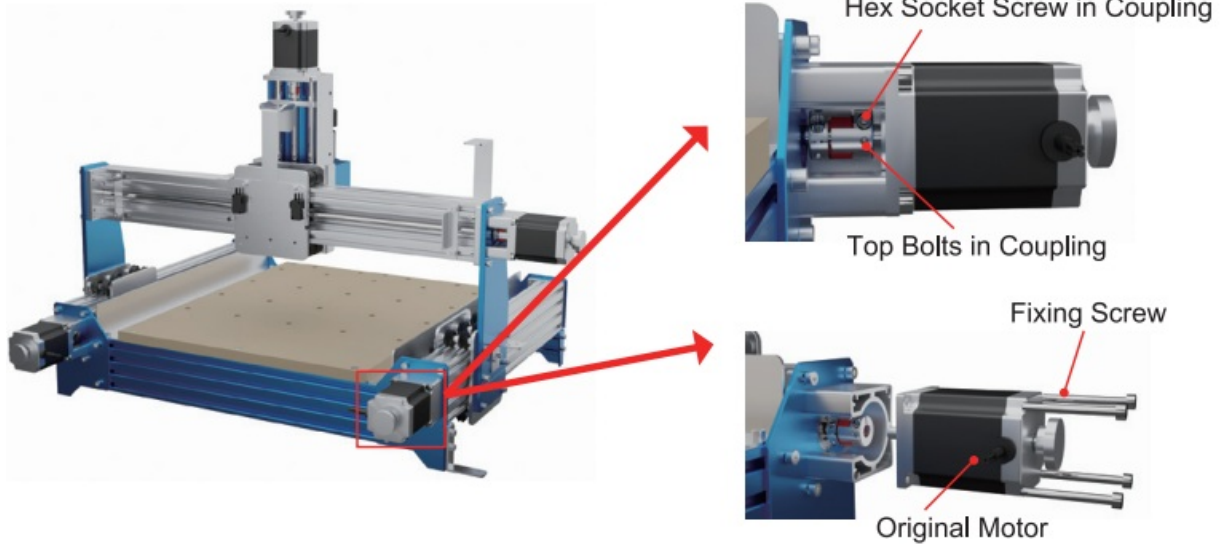Top Bolts in Coupling
Hex Socket Screw in Coupling

4. **STEP 4: Remove Y1-Axis Motor**
   - Loosen the top bolts and socket head cap screw on the motor-facing side of the Y1-axis coupling, remove the 4 Y1-axis motor screws for backup, and remove the Y1-axis motor.

Top Bolts in Coupling
Hex Socket Screw in Coupling
Fixing Screw
Original Motor

5. **STEP 5: Remove the Y2-Axis Motor**
   - Loosen the top bolts and socket head cap screw on the motor-facing side of the Y2-axis coupling. remove the 4 Y2-axis motor screws for backup, and remove the Y2-axis motor.
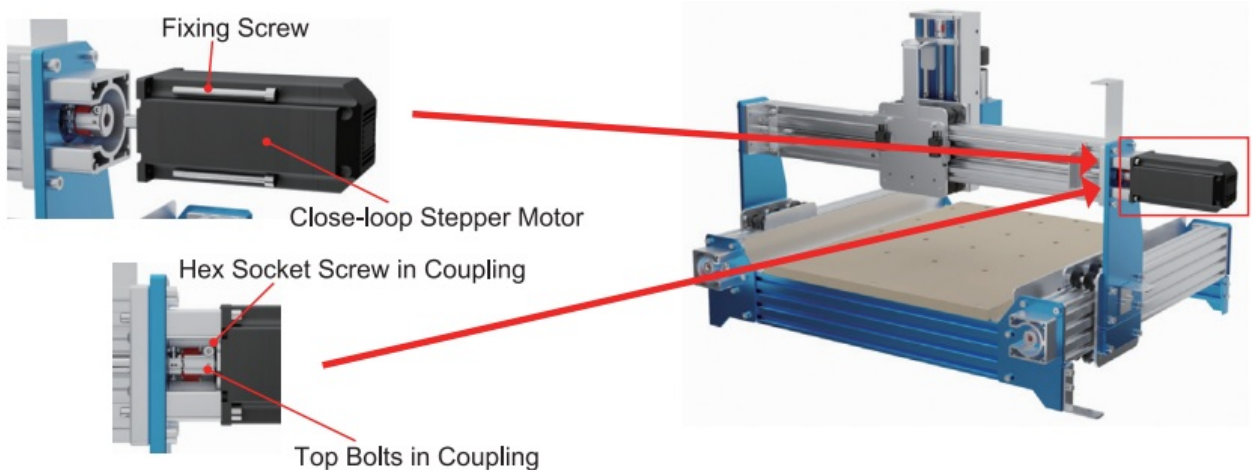
Hex Socket Screw in Coupling

Top Bolts in Coupling

Fixing Screw

Original Motor

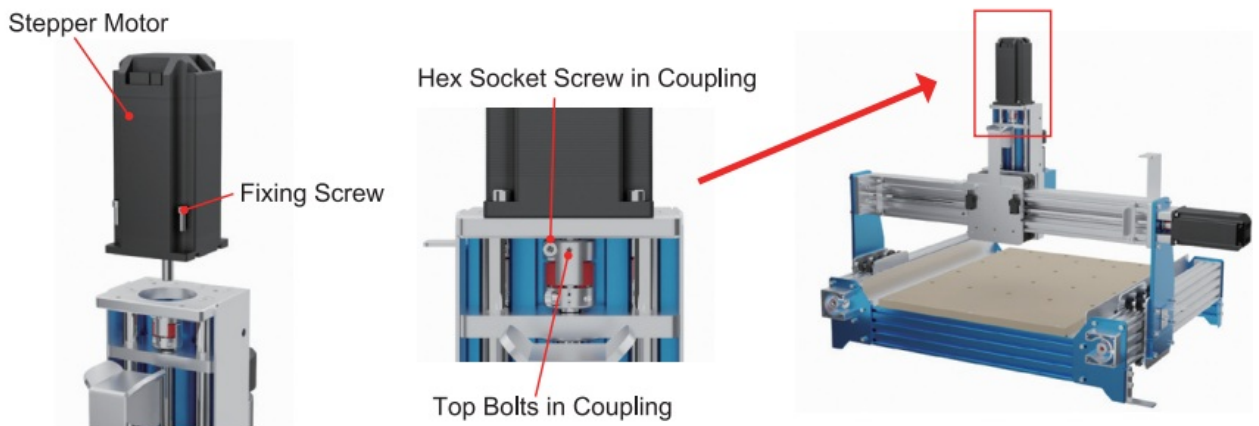6. **STEP 6:** The removal is completed as shown

7. **STEP 7: Installation of X-Axis Motor**
   - Install the close-loop stepper motor on the X-axis motor mount, use the disassembled X-axis motor fixing screws to lock the stepper motor, and tighten the socket head cap screws and the top bolt on the motor side of the coupling.
   - (If the screws are slippery, please use the spare screws in the kit to replace them)
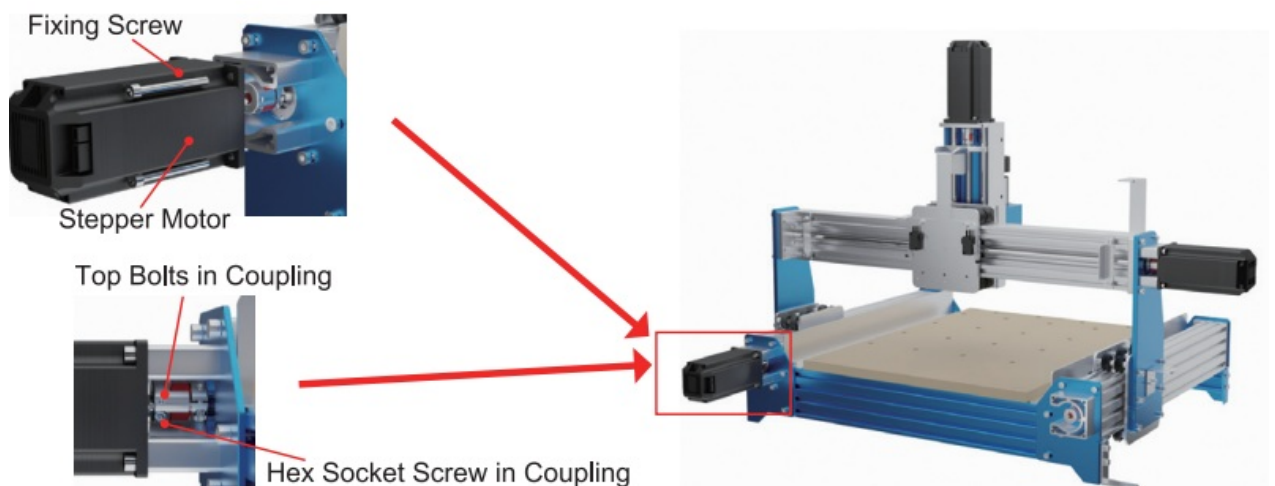

Fixing Screw

Close-loop Stepper Motor

Hex Socket Screw in Coupling

Top Bolts in Coupling

8. **STEP 8: Installation of Z-Axis Motor**

- Install the close-loop stepper motor on the Z-axis motor mount, use the disassembled Z-axis motor fixing screws to lock the stepper motor, and tighten the socket head cap screws and the top bolt on the motor side of the coupling.
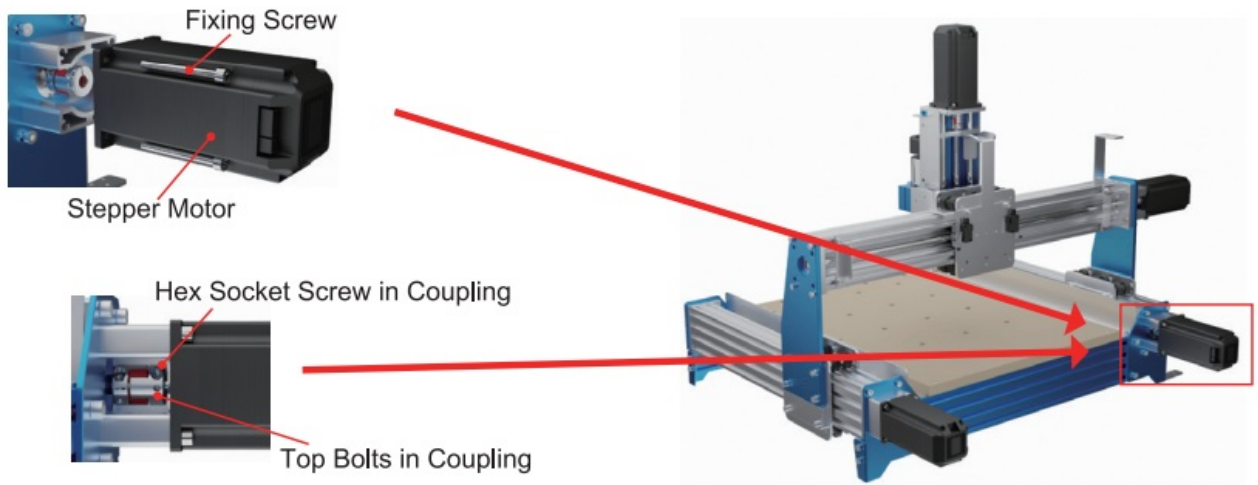- (If the screws are slippery, please use the spare screws in the kit to replace them)

9. **STEP 9: Installation of Y1-Axis Motor**
   - Install the close-loop stepper motor on the Y1-axis motor mount, use the disassembled Y1-axis motor fixing screws to lock the stepper motor, and tighten the socket head cap screws and the top bolt on the motor side of the coupling.
   - (If the screws are slippery, please use the spare screws in the kit to replace them)
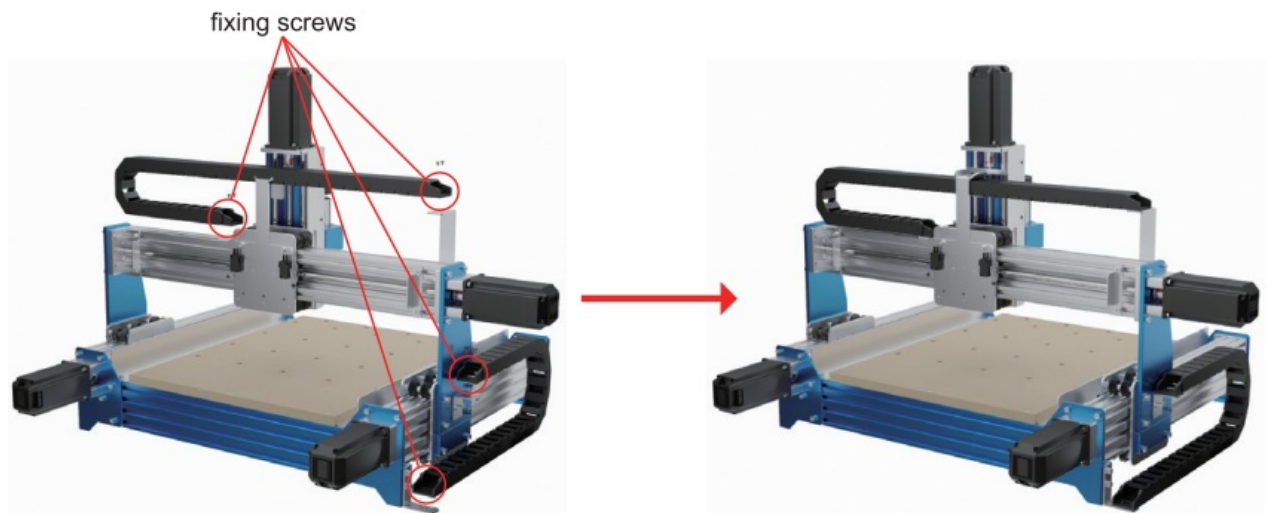

10. **STEP 10: Installation of Y2-Axis Motor**
    - Install the close-loop stepper motor on the Y2-axis motor mount, use the disassembled Y2-axis motor fixing screws to lock the stepper motor, and tighten the socket head cap screws and the top bolt on the motor side of the coupling.
    - (If the screws are slippery, please use the spare screws in the kit to replace them)

Fixing Screw

Stepper Motor

Hex Socket Screw in Coupling

Top Bolts in Coupling

11. **STEP 11: Installation of Drag Chain**

- Install the new drag chain by using the disassembled drag chain fixing screw.

fixing screws

12. **STEP 12:** Installation is completed as shown

Wiring

Buttons and Interfaces

- **WARNING:** Please check your voltage selection on the power supply unit before powering on Verify it is switched to the proper voltage for your region.
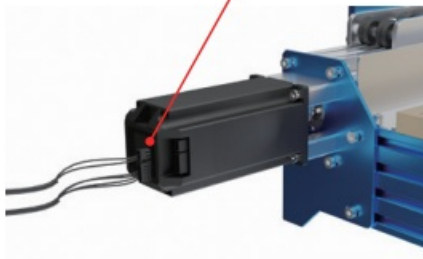

AC Input Voltage Adjustment Switch
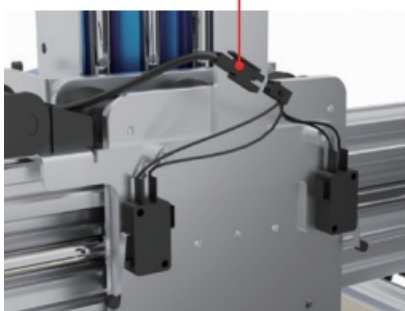
X/Y/Z Asix Motor Wiring
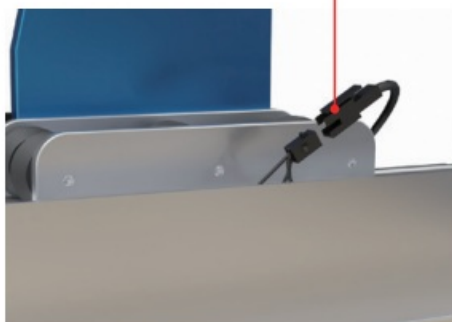

Y-axis Motor/signal

X-axis Motor/signal

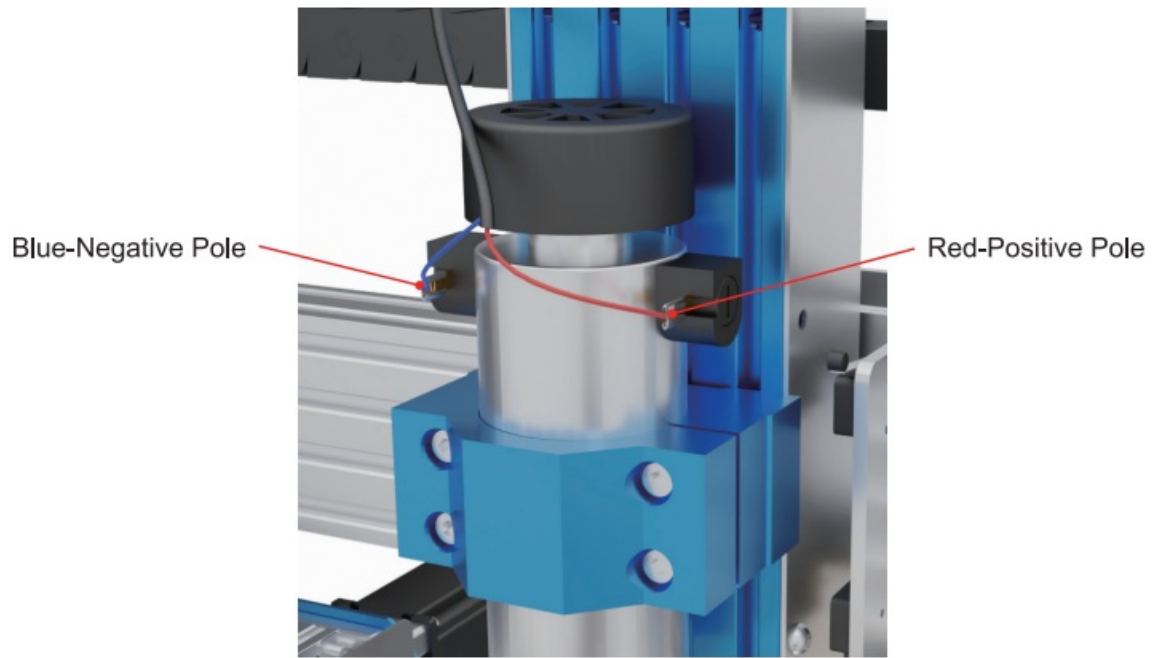Z-axis Motor/signal

Limit Switch Wiring
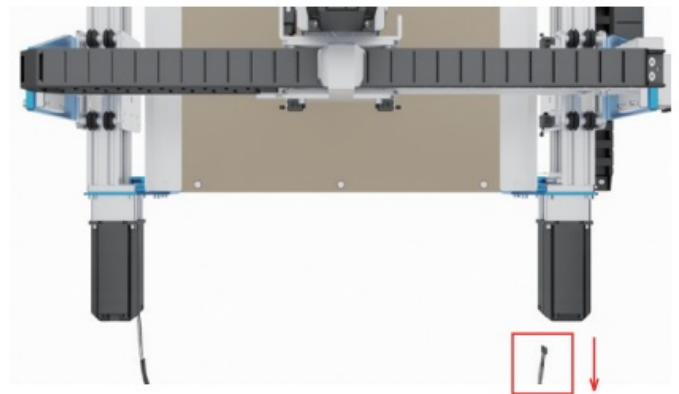

X Limit Switch
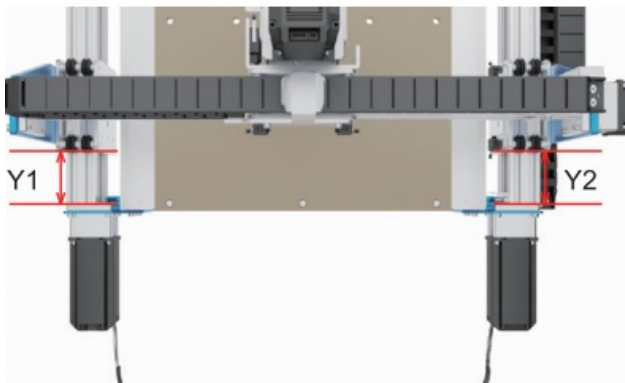
Y Limit Switch

Z Limit Switch

Spindle Wiring

Blue-Negative Pole

Red-Positive Pole

STEP 14: Adjusting Lead Screw

- Measure the distance Y1 and Y2 from both Y-axis sliders to the fixed plate at the motor end of the Y-axis, calculate the distance difference, and then unplug one of the Y-axis motors from the motor cable.
- Use the software to control the rotation of one of the Y-axis motors to adjust the distance of the Y-axis sliders to Y1=Y2.

- **Email: support@sainsmart.com**
- **Facebook messenger: https://m.me/SainSmart**
- **Help and support is also available from our Facebook Group**
- **Vastmind LLC, 5892 Losee Rd Ste. 132, N. Las Vegas, NV 89081**

Facebook Group

Documents / Resources

Genmitsu 60 Close loop Stepper [pdf] Installation Guide
60 Close loop Stepper, 60, Close loop Stepper, loop Stepper, Stepper

References

- **User Manual**