

LUNYEE

Assembly Guide Instruction

3018 Pro Max CNC Router



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Safety Guide



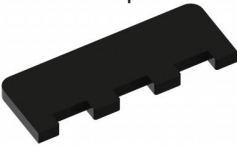
Please be careful when using your CNC machine. This machine is an electrical device with moving parts and dangerous areas.

- The CNC Machine is for Indoor Use Only.
- You must be 18 years or older to operate this machine, unless supervised by a knowledgeable adult familiar with the machine.
- Wear the proper Personal Protection Equipment (Safety Glasses etc.).
- Always place the CNC Machine on a stable surface.
- The CNC Machine is supplied with a Switchable Power Supply 220VAC or 110VAC. Never use a different power supply; it may cause malfunctions or damage to the machine.
- The 3018 PRO MAX utilizes a high amp power supply. It is recommended that you do not plug the CNC Router into an extension cord or power strip as it may damage the machine. (Need final confirmation)
- Ensure the Emergency stop button is easily accessible at all times. Never disassemble the Power Supply or Electrical Components. This will VOID the warranty.
- DO NOT TOUCH the machine spindle, or place any body part near the working area when the machine is operating. Serious injury may occur.
- DO NOT leave children unsupervised with the CNC Machine even when it's not operating. Injury may occur.
- DO NOT leave the machine unattended while it's operating.
- Ensure your CNC Machine is in a well-ventilated area. Some Materials may discharge smoke or fumes during operation.

Specifications

Work Area	300x180x78mm (11.81x7.08x3.07inch)
Drive Type	Chrome Plated Shaft & T-Shaped Screw Rod
Control Board	3 Axis V5.2 GRBL 1.1f
Stepper Motor	Nema17 42x48mm
Stepper Motor Drive	A4988
Spindle	φ52mm 500W 12000RPM
Power	48V 500W
Max Motion Speed	5000mm/min
Max Process Speed	2000mm/min
Max Accelerated Speed	200mm/s ²
Accuracy	±0.1mm
Limit Switch	Yes (X1, X2, Y1, Y2, Z1, Z2)
E-Stop	Yes
Z-Probe	Yes
Software	UGS
Laser	Support laser module with 40mm width
Operating System	Windows XP/7/8/10 & Linux & MAC OS
Overall machine size	485x415x374mm (19.09x16.34x14.72inch)
Machine Weight	11kg

Package List

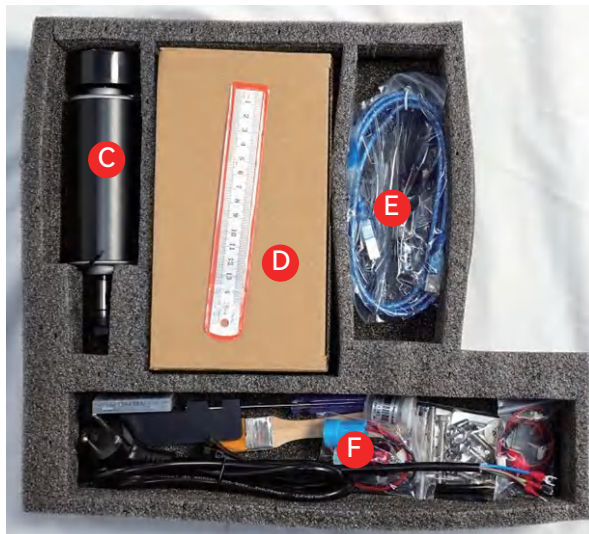
1. Y-axis Module 1pc 	2. XZ-axis Module 1pc 	3. Spindle Motor 1pc 	4. Control Board 1pc 	5. Power 1pc 
6. Rubber Feet 4pcs 	7. Limit switches 2pcs 	8. Spindle clamp 1pc 	9. Chuck 1pc 	10. Power bracket 2pcs 
11. Auxiliary tool 1pc 	12. Emergency stop switch 1pc 	13. Gasket M5 12pcs 	14. Screw M5-16 12pcs 	15. Screw M5-10 4pcs 
16. Pan head screw M4-8 4pcs 	17. Pan head screw M4-6 4pcs 	18. Pan head screw M2-10 4pcs 	19. Flat head screwdriver 1pc 	20. Wrenches 

21. Tool setting instrument 1pc 	22. Power cord 1pc 	23. USB data cable 1pc 	24. Motor cable 3pcs 	25. Limit line 6pcs 
26. Spindle cord 1pc 	27. Power cord 1pc 	28. 60° Router bit* 1 set 	29. Wire clamp 10pcs 	30. Fixture 4pcs 
31. USB driver 1pc 	32. Braided tube 1pc 	33. Brush 1pc 	34. Steel ruler 1pc 	35. Lube 1pc 
36. Wire trough 1pc 	37. Cable ties 	38. Offline controller 		

Package Contents



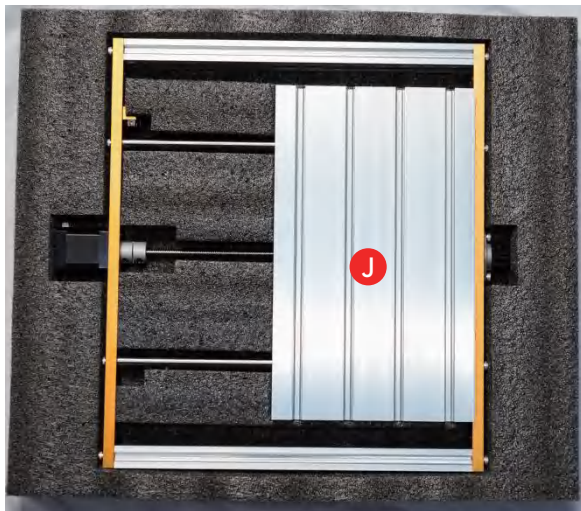
- A** Control Board
Tool box
Connection guide for offline screen
- B** User manual



- C** Spindle
- D** Steel ruler, Power supply
- E** Data Cable
- F** Auxiliary tools, Power cord, Screwdriver,
Brush, Emergency stop switch, Chuck, Fixture,
Spindle line



- G** X Z axis module
- H** Limit wire, motor wire, winding tube
- I** Offline controller



- J** Y axis module

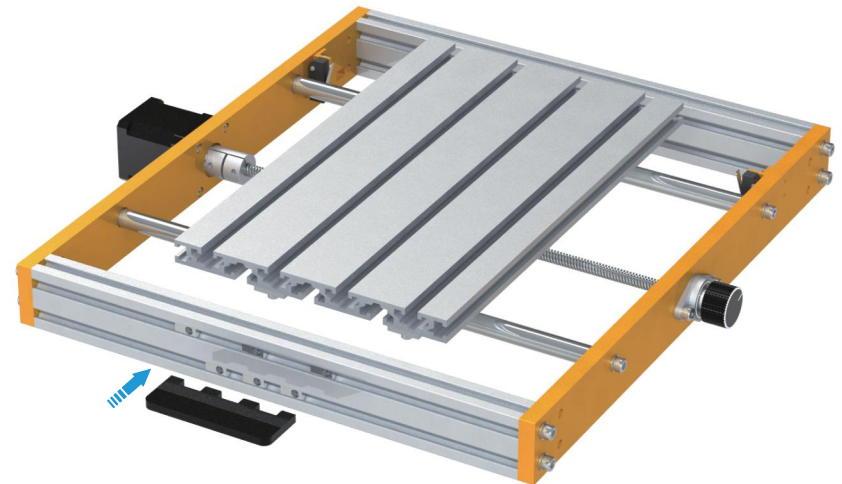
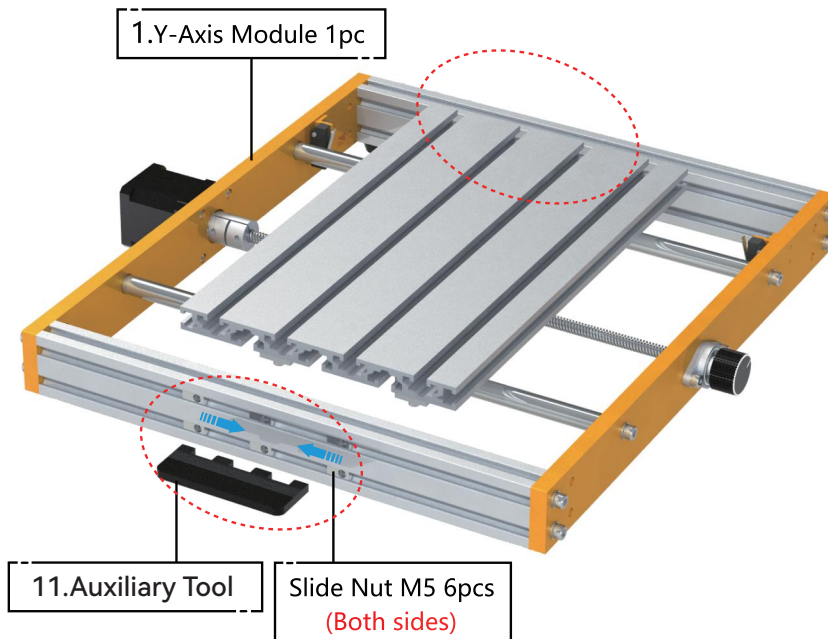
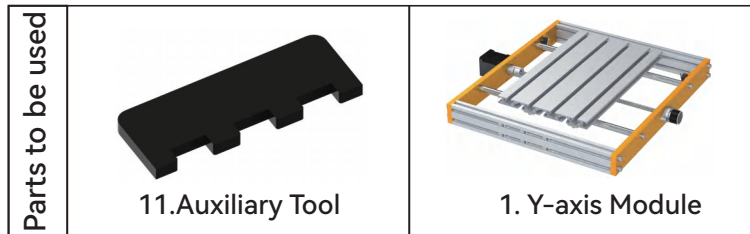
Tip: When you cannot find the required part, you can find the location of the accessory in the packaging based on the name and serial number of the part. If not, please contact us:

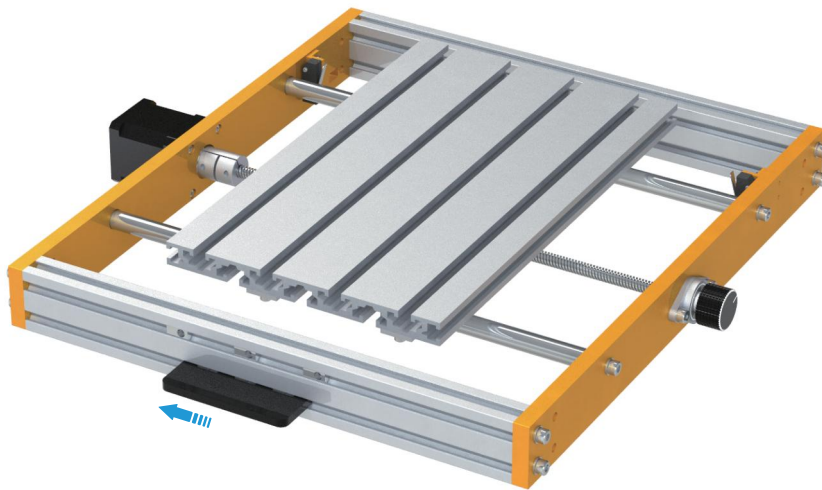
support@lunyeecnc.com

amazon@lunyee.com

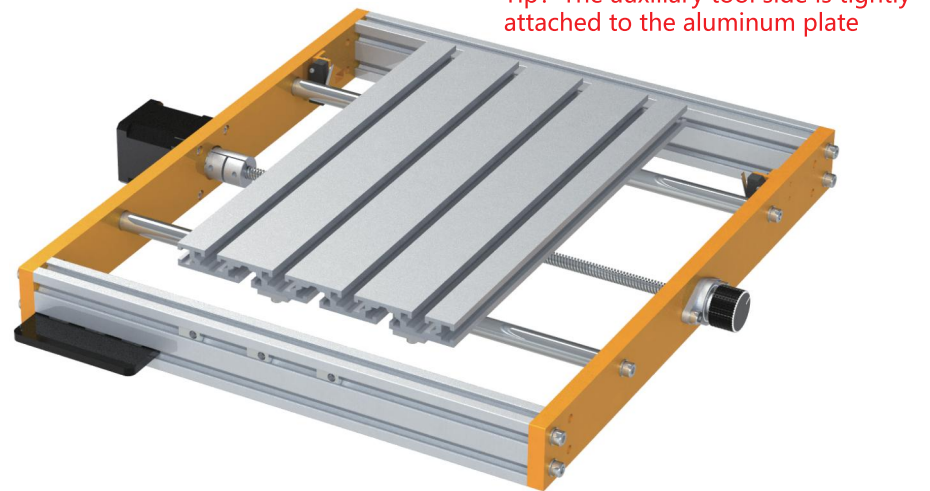
Assembly Instruction

Step 1 Use auxiliary tool to adjust the position of the slider nut

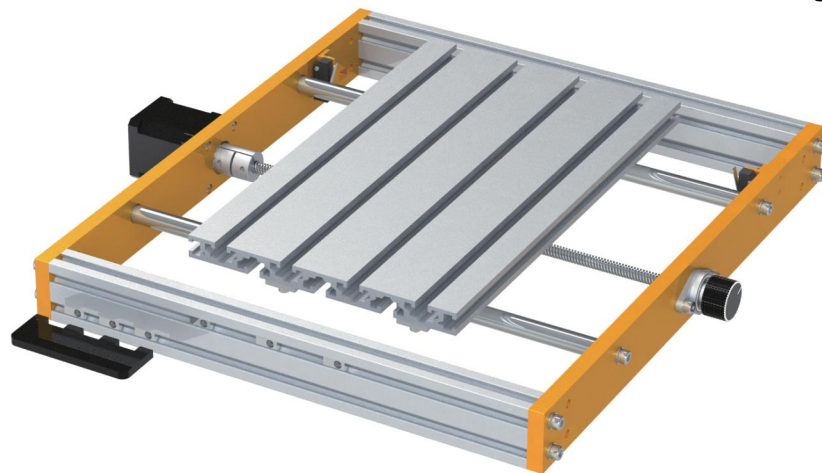




1

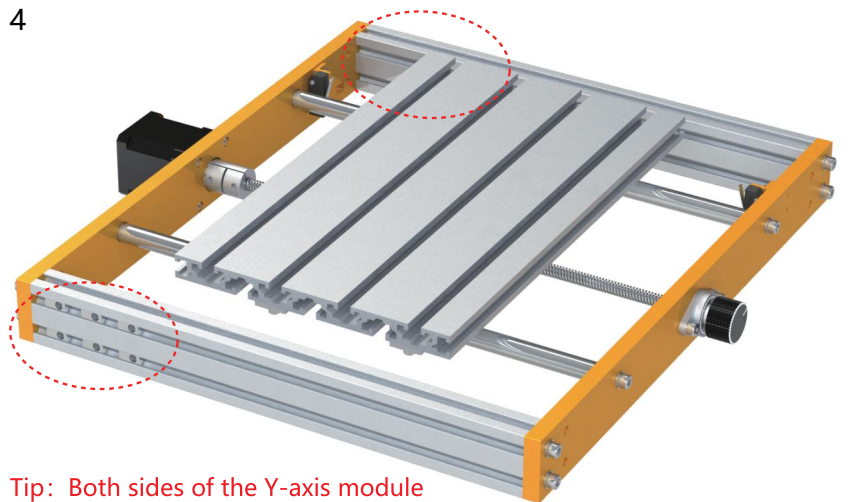


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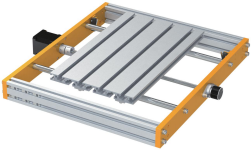


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4

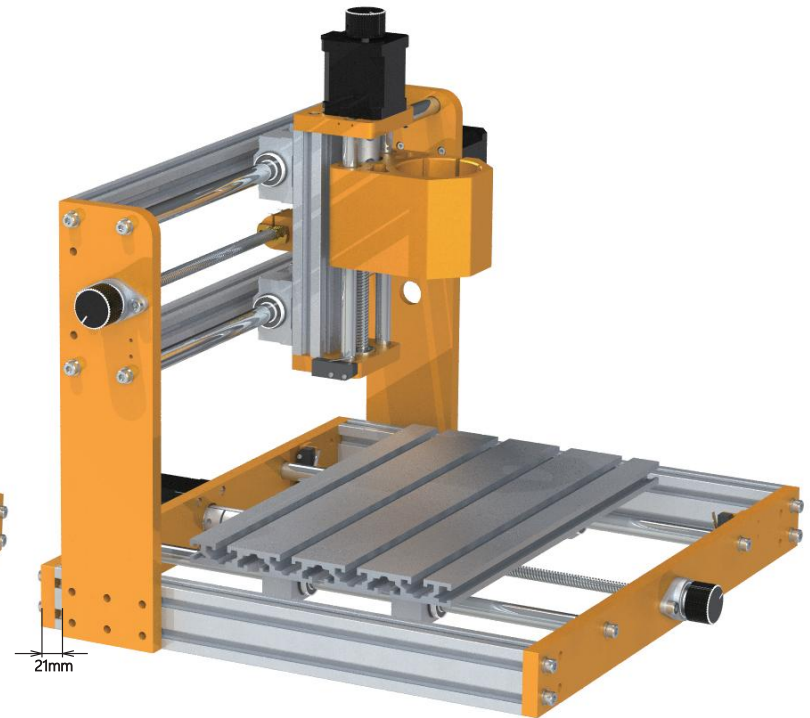
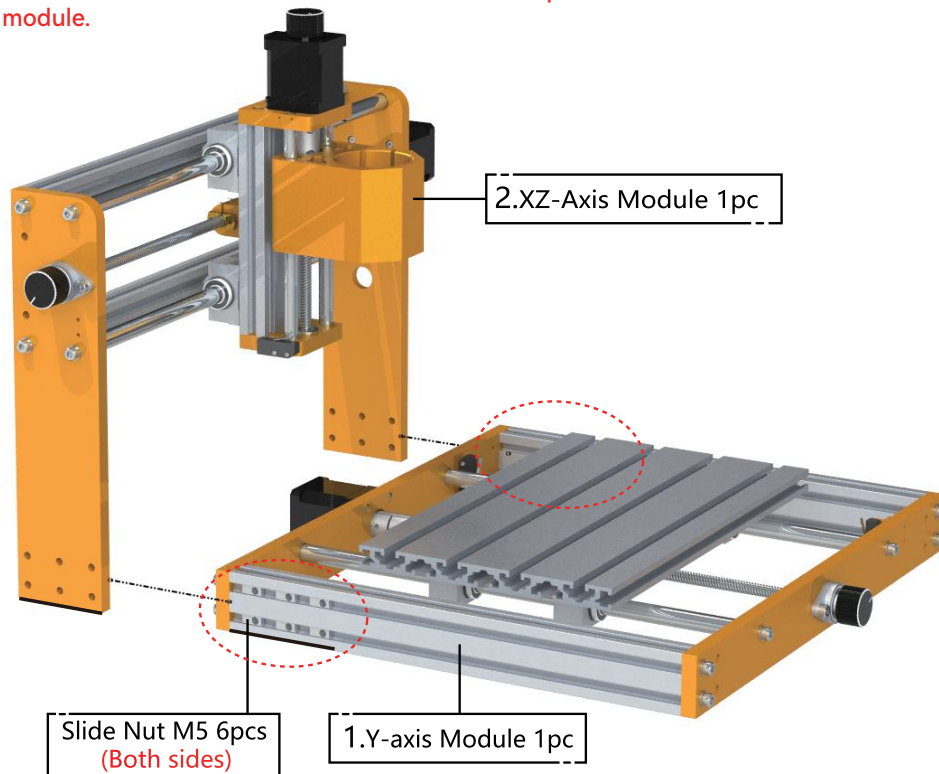


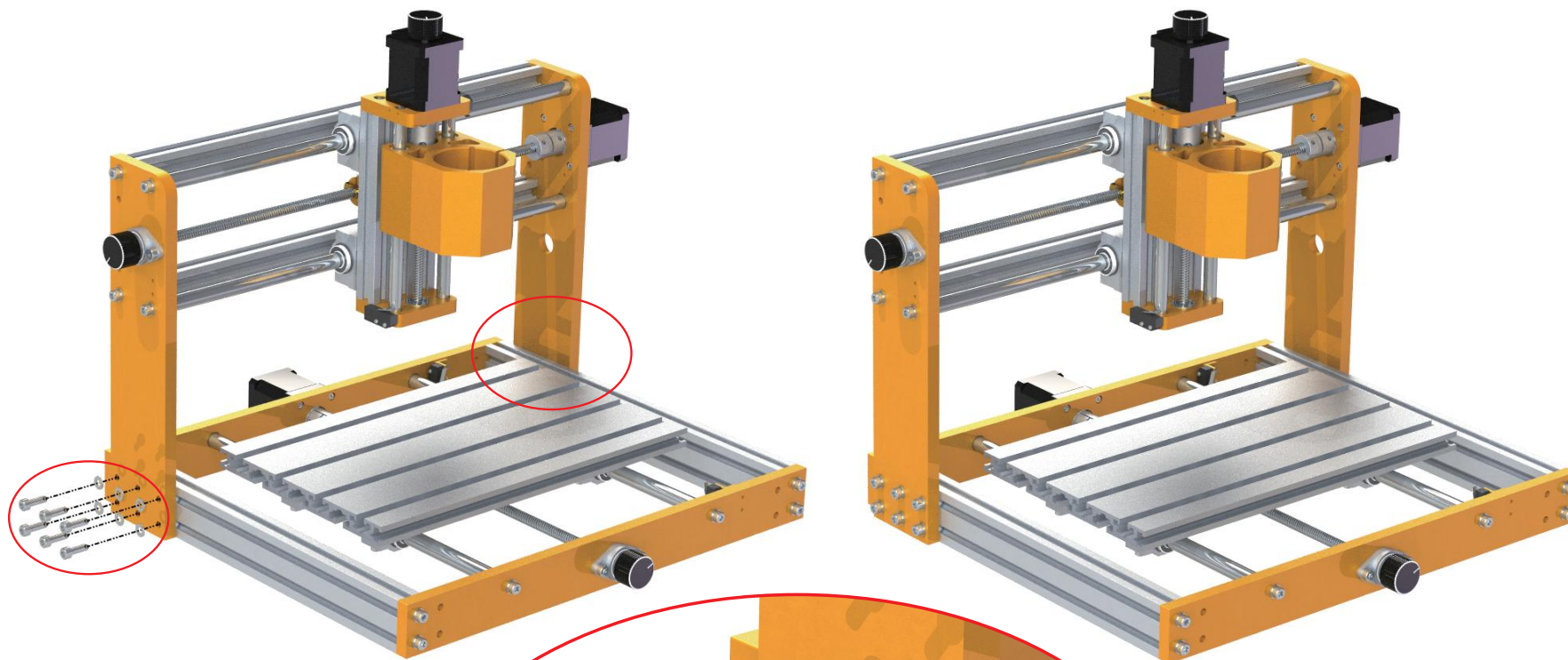
Step 2 X , Y , Z Module Assembly

Parts to be used	1.Y-Axis Module 1pc 	2.XZ-Axis Module 1pc 	14.Screw M5-16 12pcs 	13.Gasket M5 12pcs 	20.Wrench 4# 
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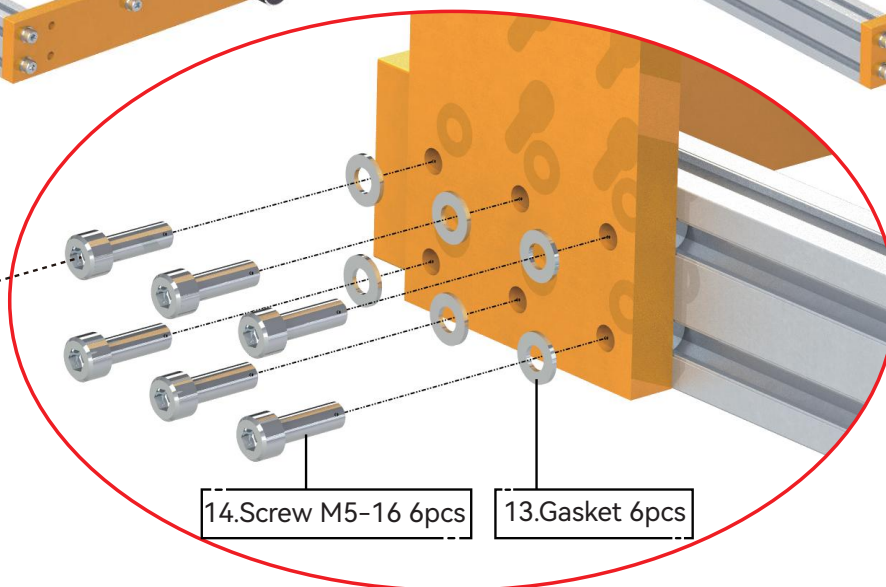
Tip: The bottom surface of the aluminum plate of the XZ-axis module is flush with the bottom surface of the aluminum profile of the Y-axis module.

Tip: Installation dimension of XZ-axis module and Y-axis module is 21mm.





20.Wrench 4#

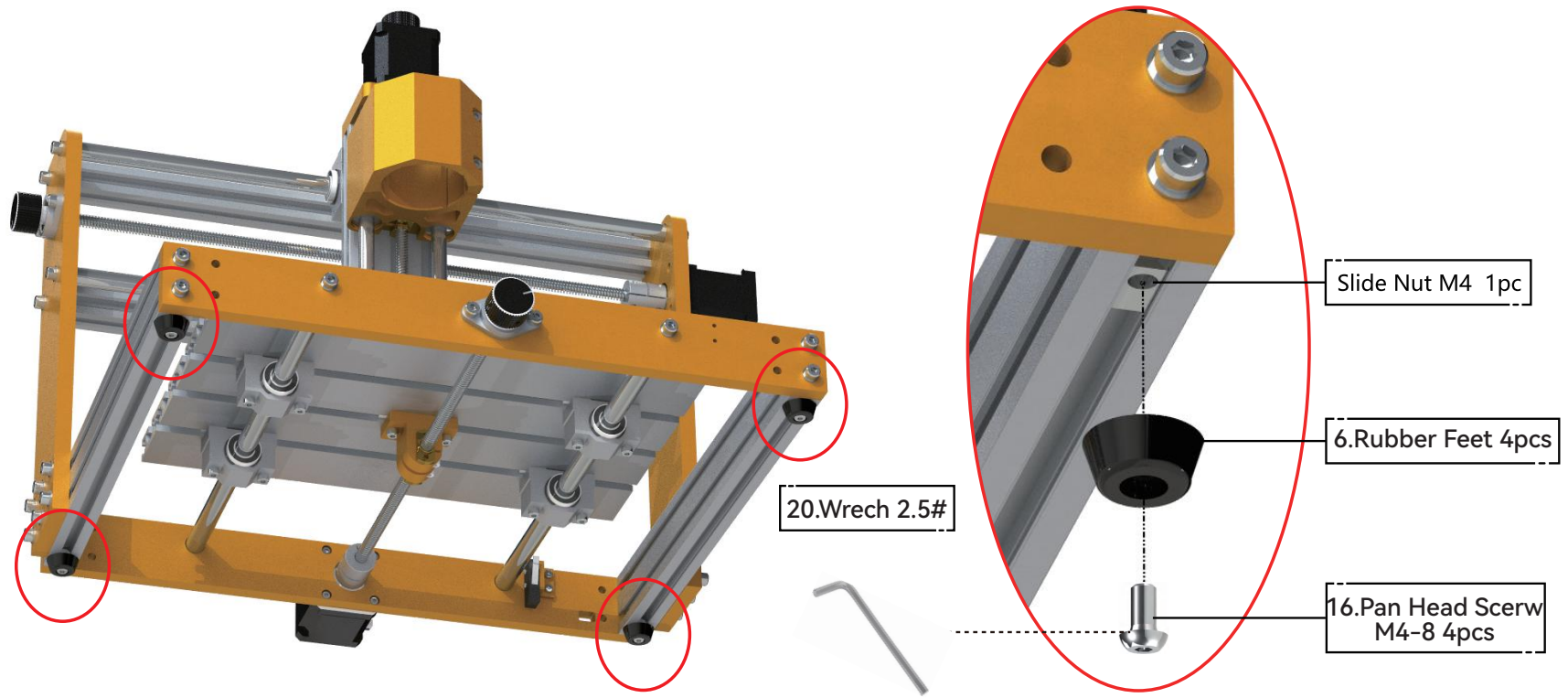


14.Screw M5-16 6pcs

13.Gasket 6pcs

Step 3 Install Robber Feet

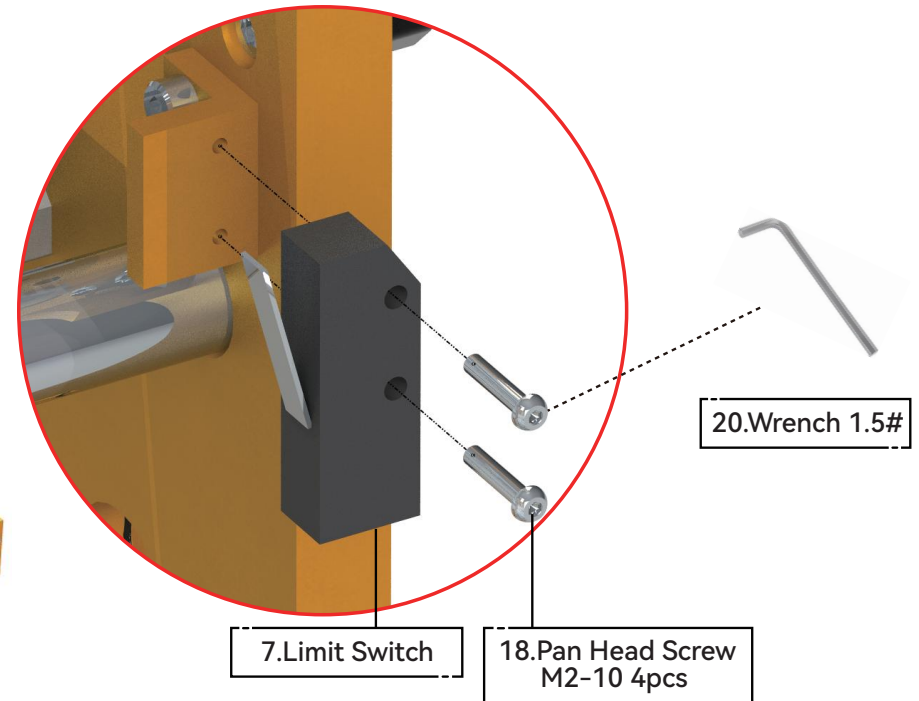
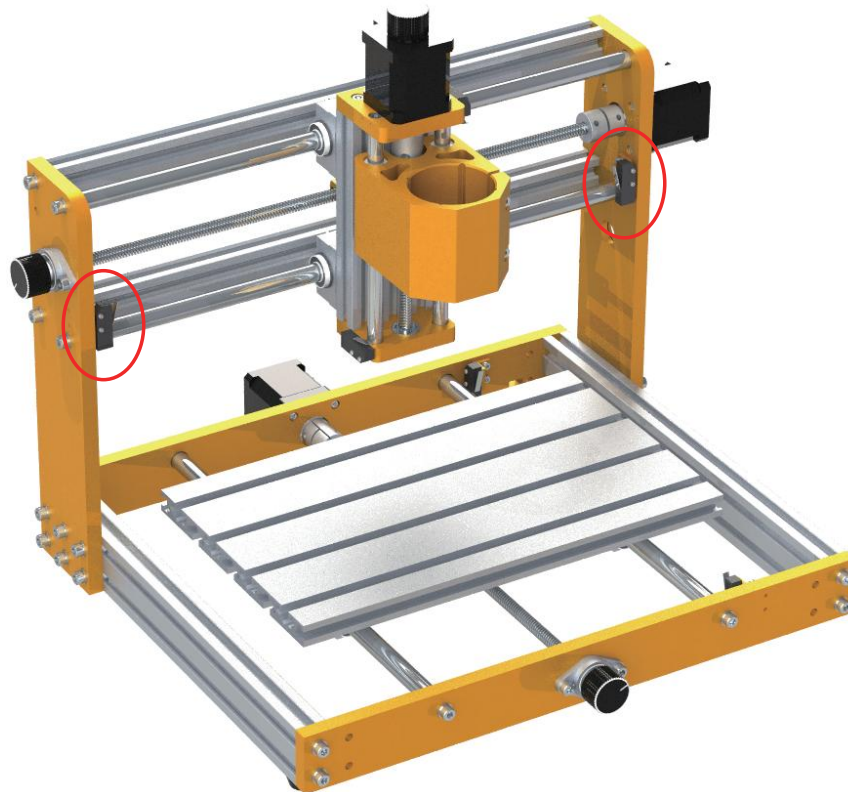
Parts to be used	6.Rubber Feet 4pcs	16.Pan Head Scerw M4-8 4pcs	20.Wrech 2.5# 1pc
			



Step 4 Install the X-axis Limit Switch

Parts to be used	7.Limit Switch 2pcs	18.Pan Head Screw M2-10 4pcs	20.Wrench 1.5#
			

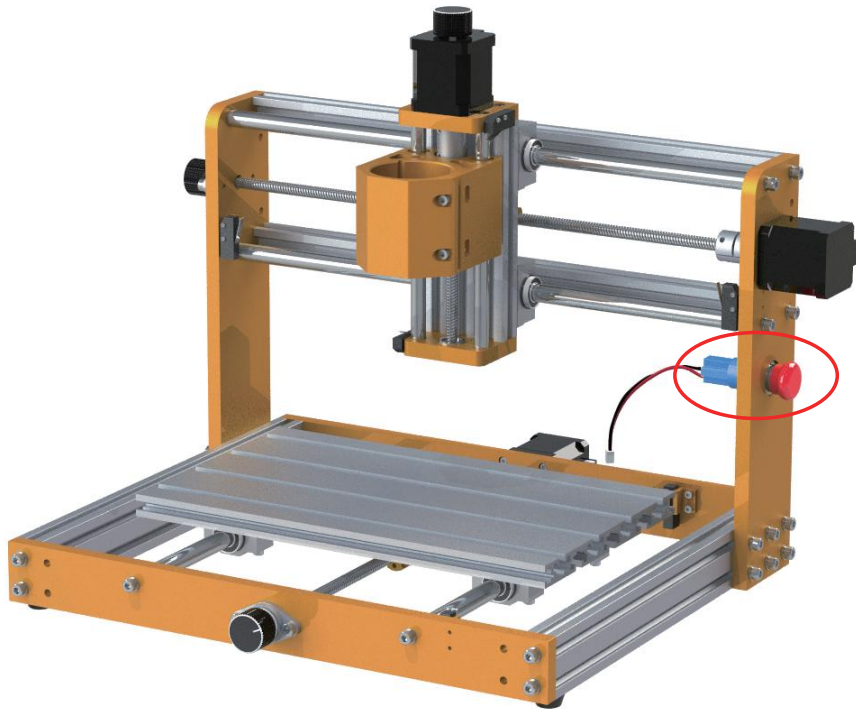
Tip: Limit switch socket position downward.



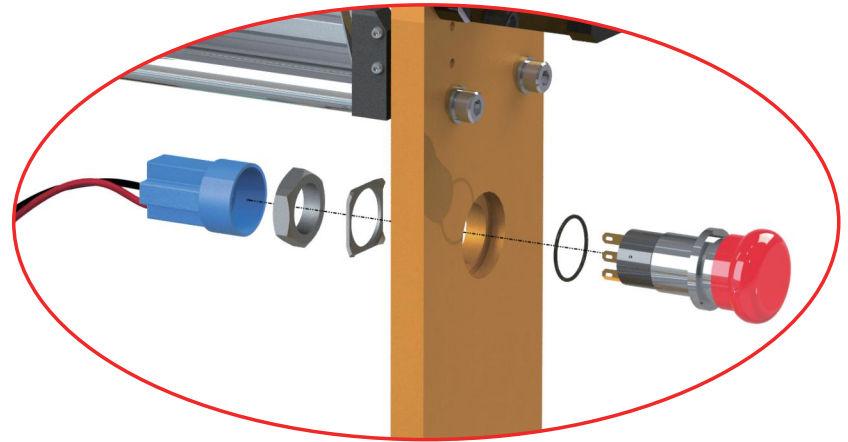
Step 5 Install E-stop Switch

Parts to be used

12.E-stop Switch



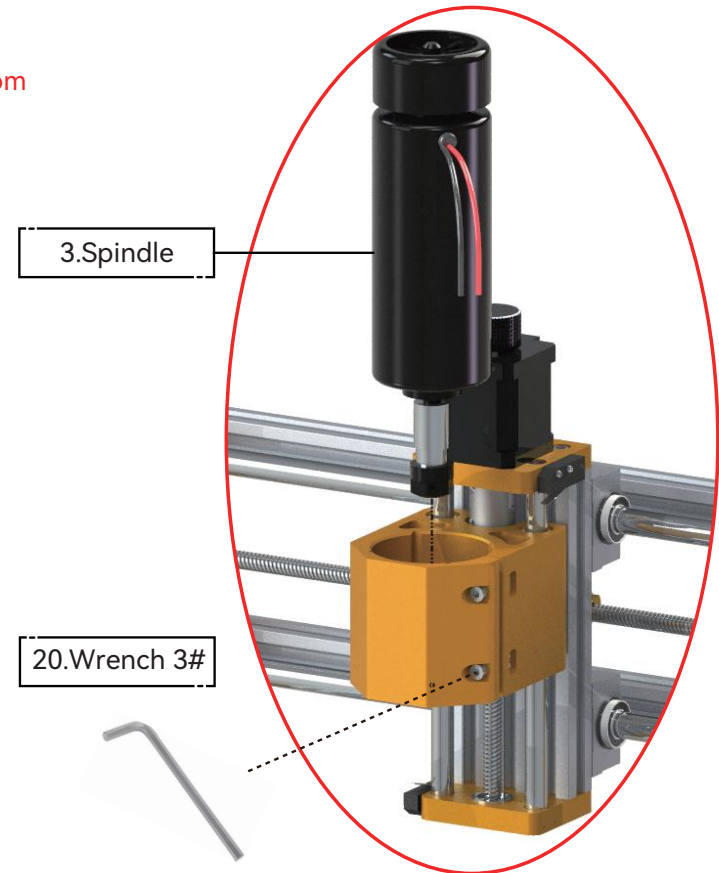
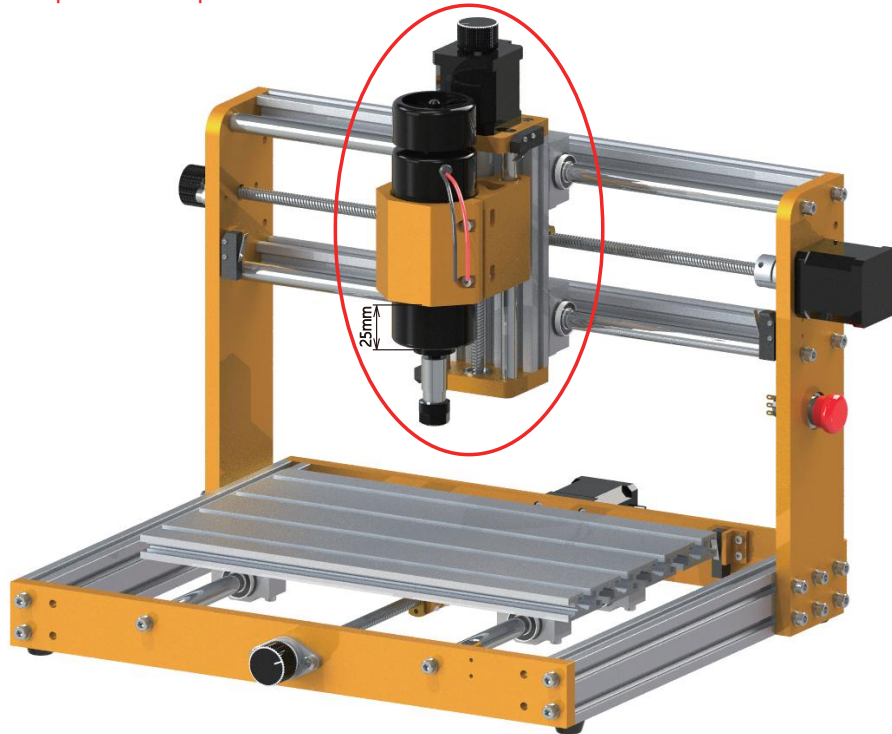
Tip: The emergency stop switch needs to be disassembled and then installed in the corresponding position.



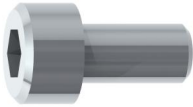
Step 6 Install the Spindle Motor

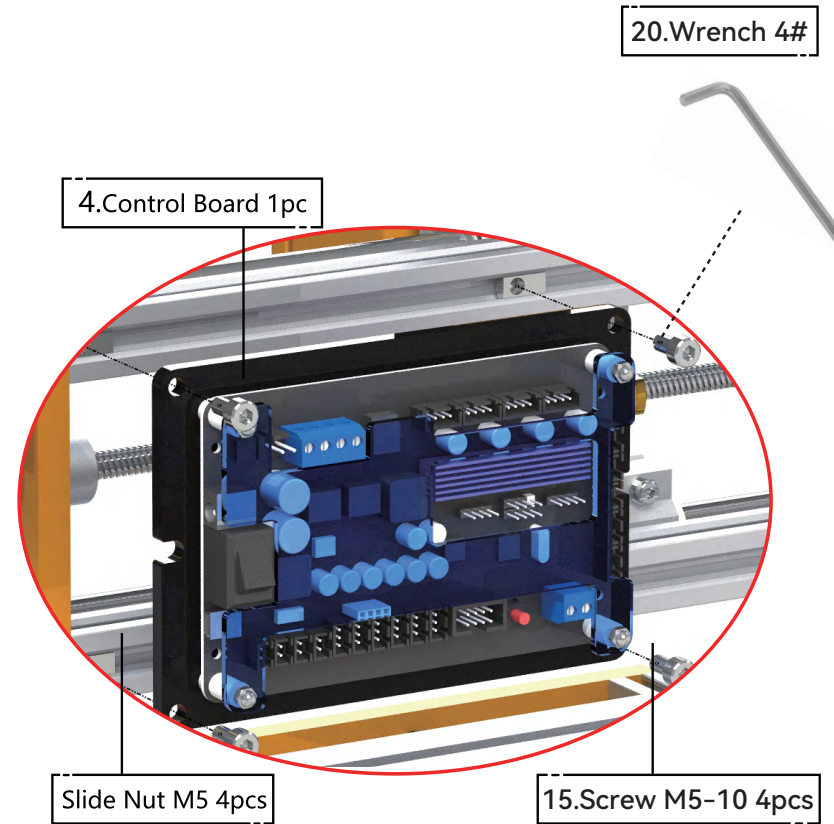
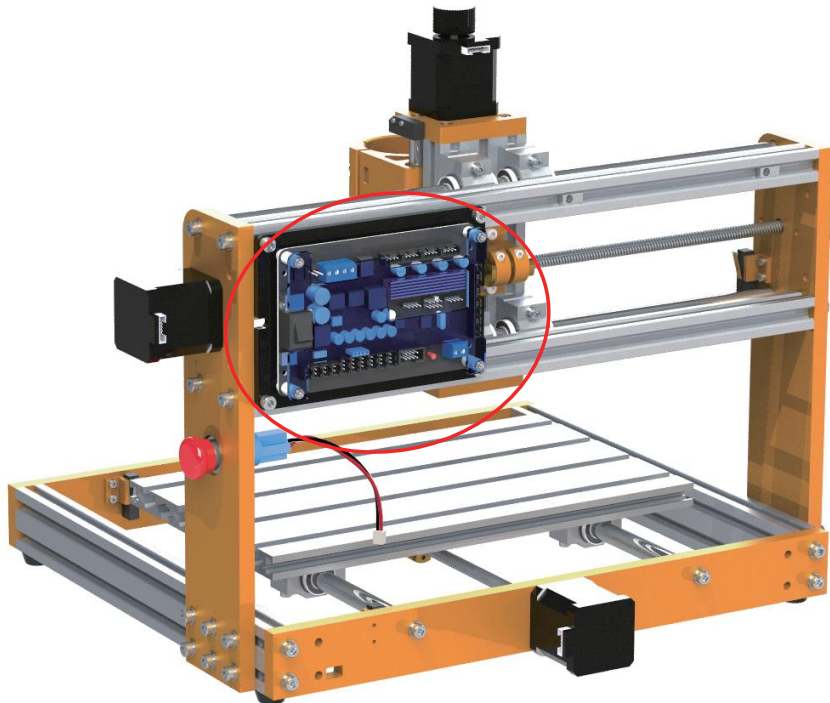
Parts to be used	3.Spindle Motor	20.Wrench 3#
		

Tip: The optimal installation dimension is that the spindle protrudes 25mm from the spindle clamp.

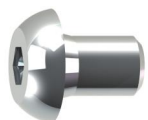


Step 7 Install Control Board

Parts to be used	4.Control Board 	15.ScrewM5-10 4pcs 	20.Wrench 4# 
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Step 8 Install the Power Supply

Parts to be used	5.Power	10.Power Bracket 2pcs	17.Pan head screw M4-6 4pcs	20.Wrench 2.5#
				

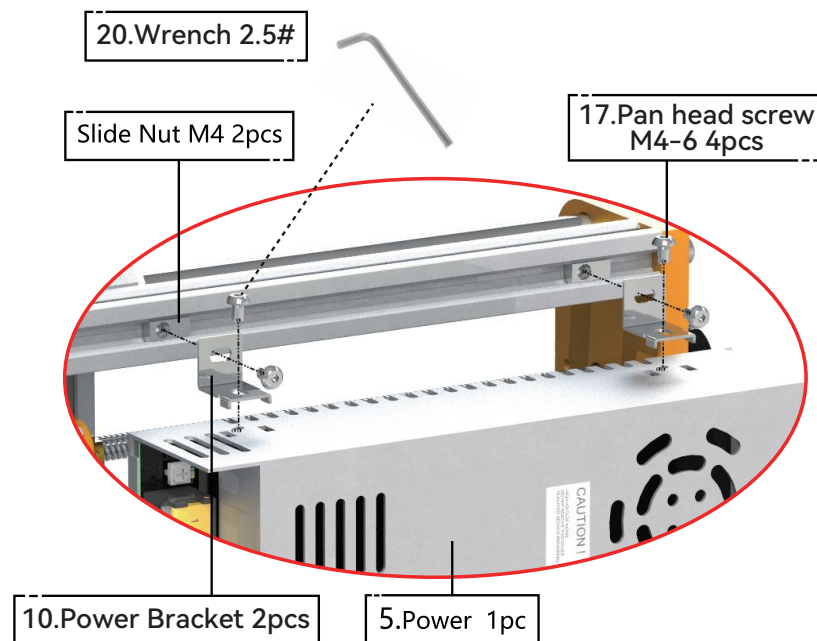
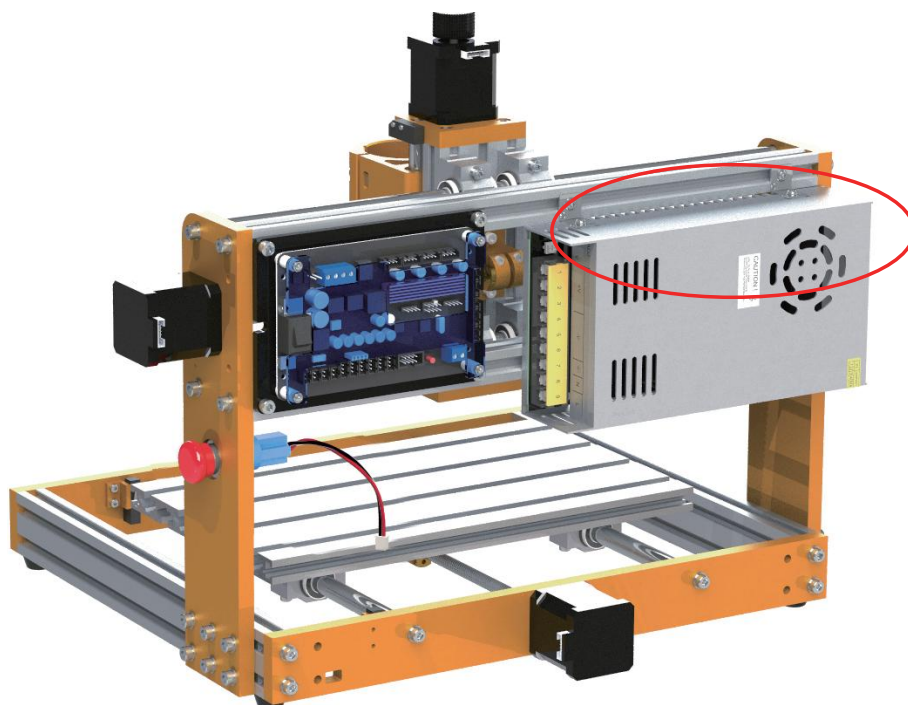
Select the correct input voltage based on your location before power on the machine.

Input voltage switch is at the bottom of the controller box.

For 220-240V areas, flip the switch to the right side, displayed as "220"

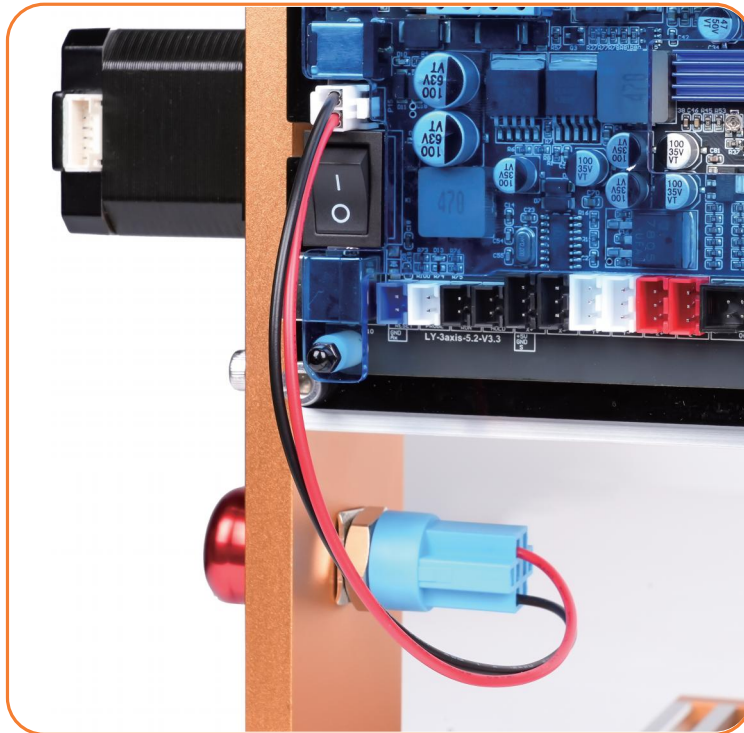
For 110V areas, flip the switch to the left side, displayed as "110"

!!! Warning:
Wrong input voltage will burn out the power supply.
Check the input voltage first after receiving the machine.

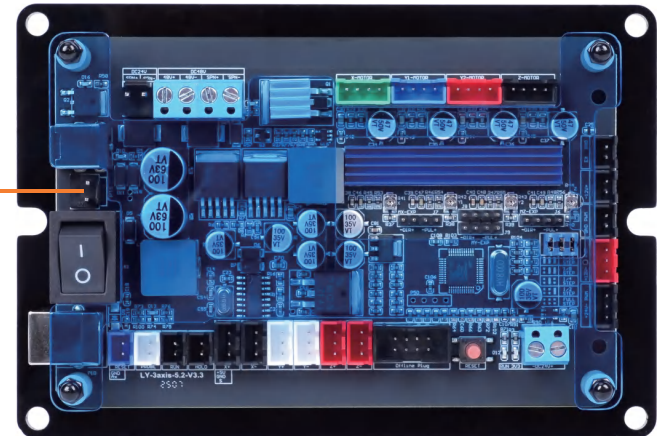


Wiring Diagrams

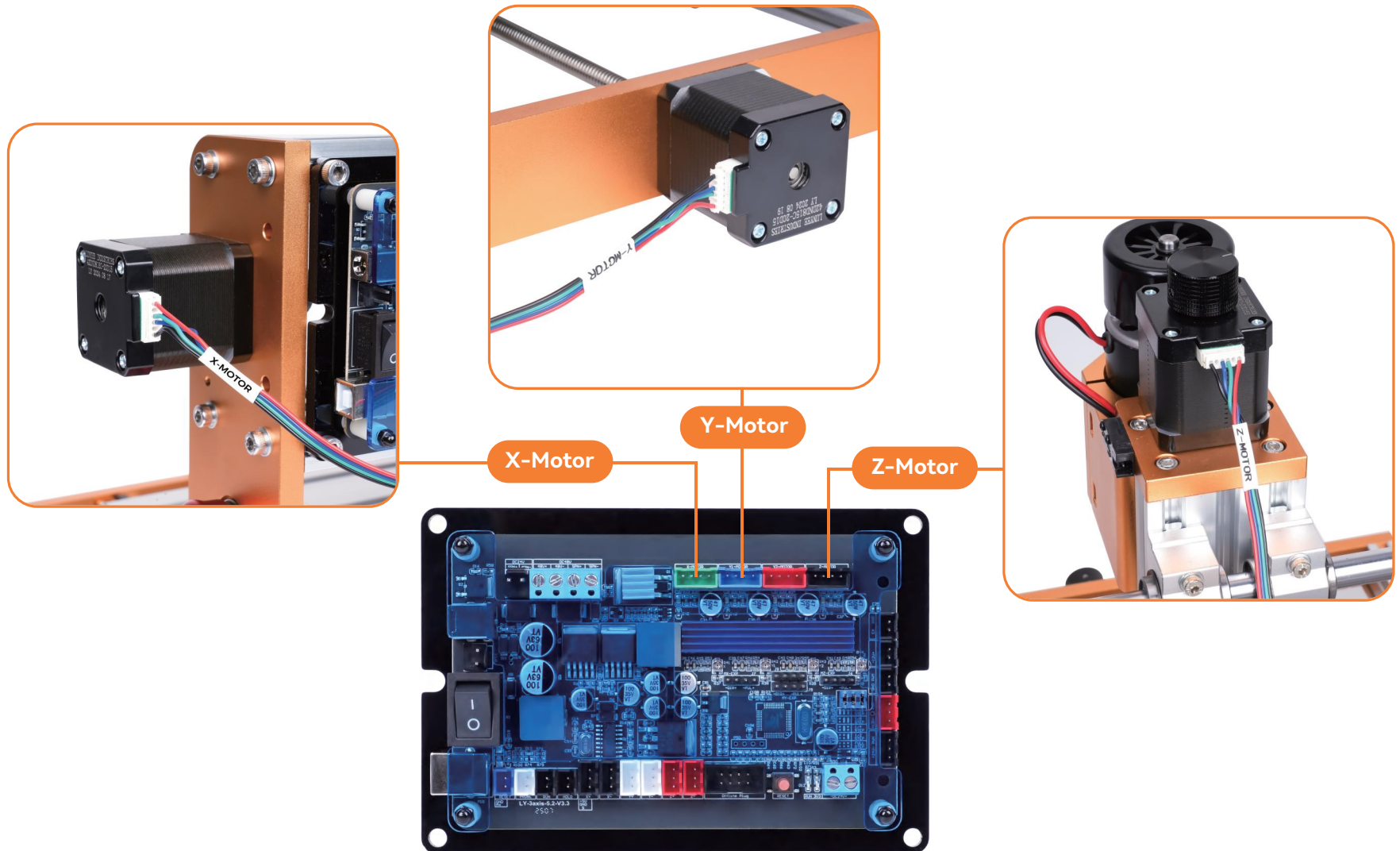
Step 1 Emergency Stop Switch Wiring Diagrams



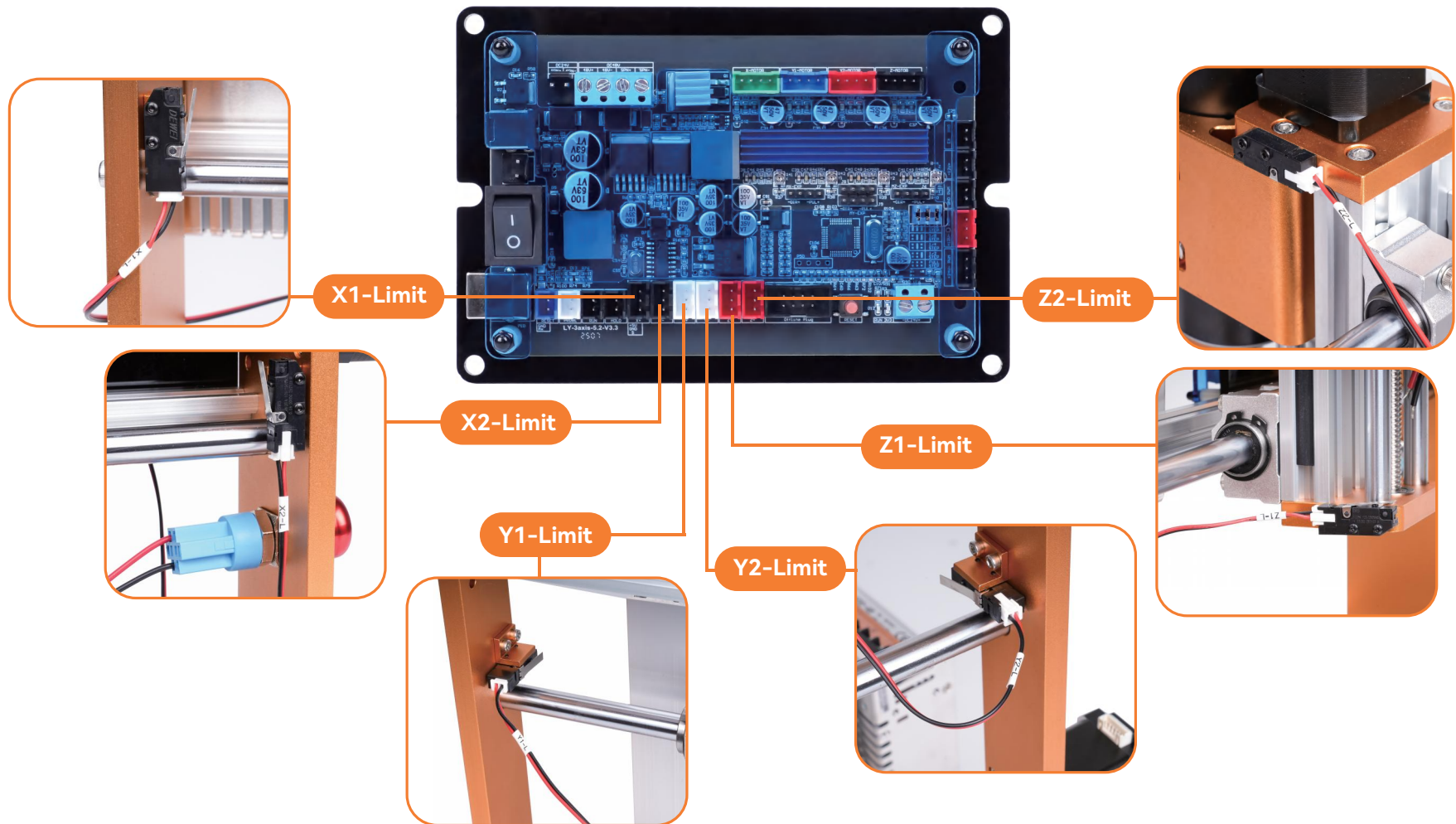
E-stop Switch



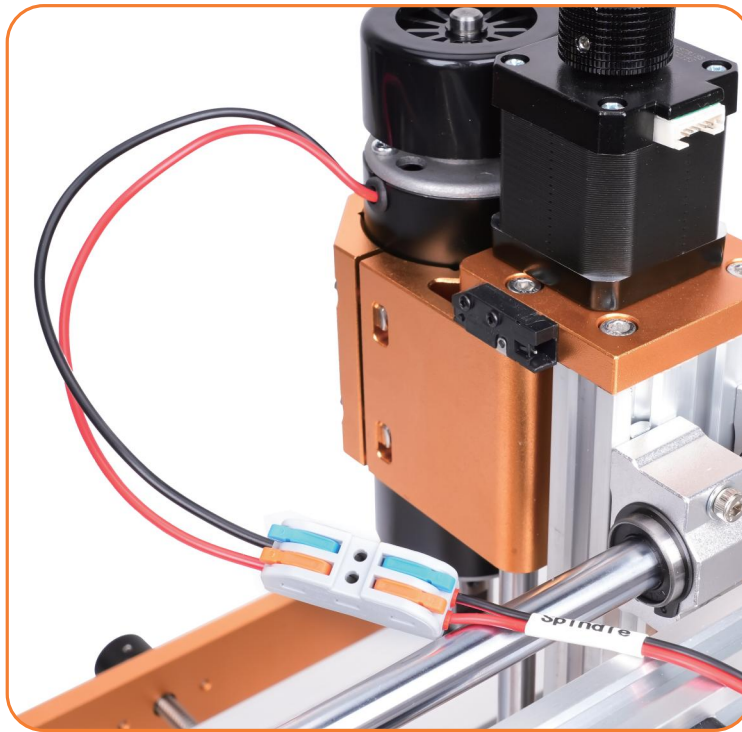
Step 2 X , Y & Z Stepper Motors Wiring Diagrams



Step 3 X , Y , Z Limit Switches Wiring Diagrams

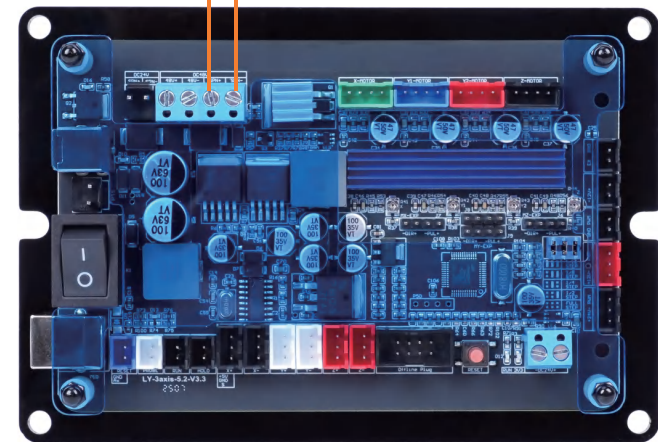


Step 4 Spindle Wiring Diagram



Spindle Motor

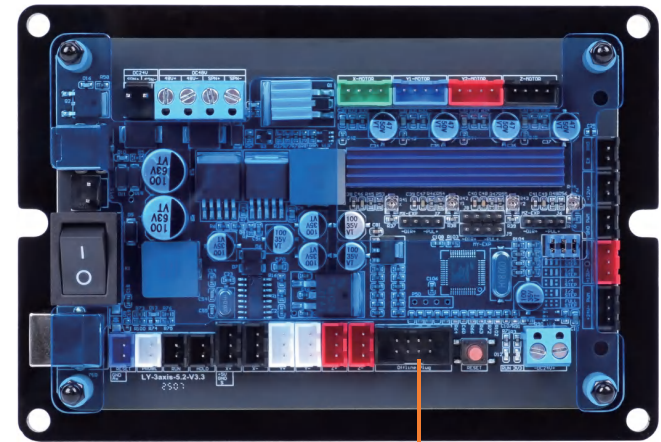
Red Black



Step 5



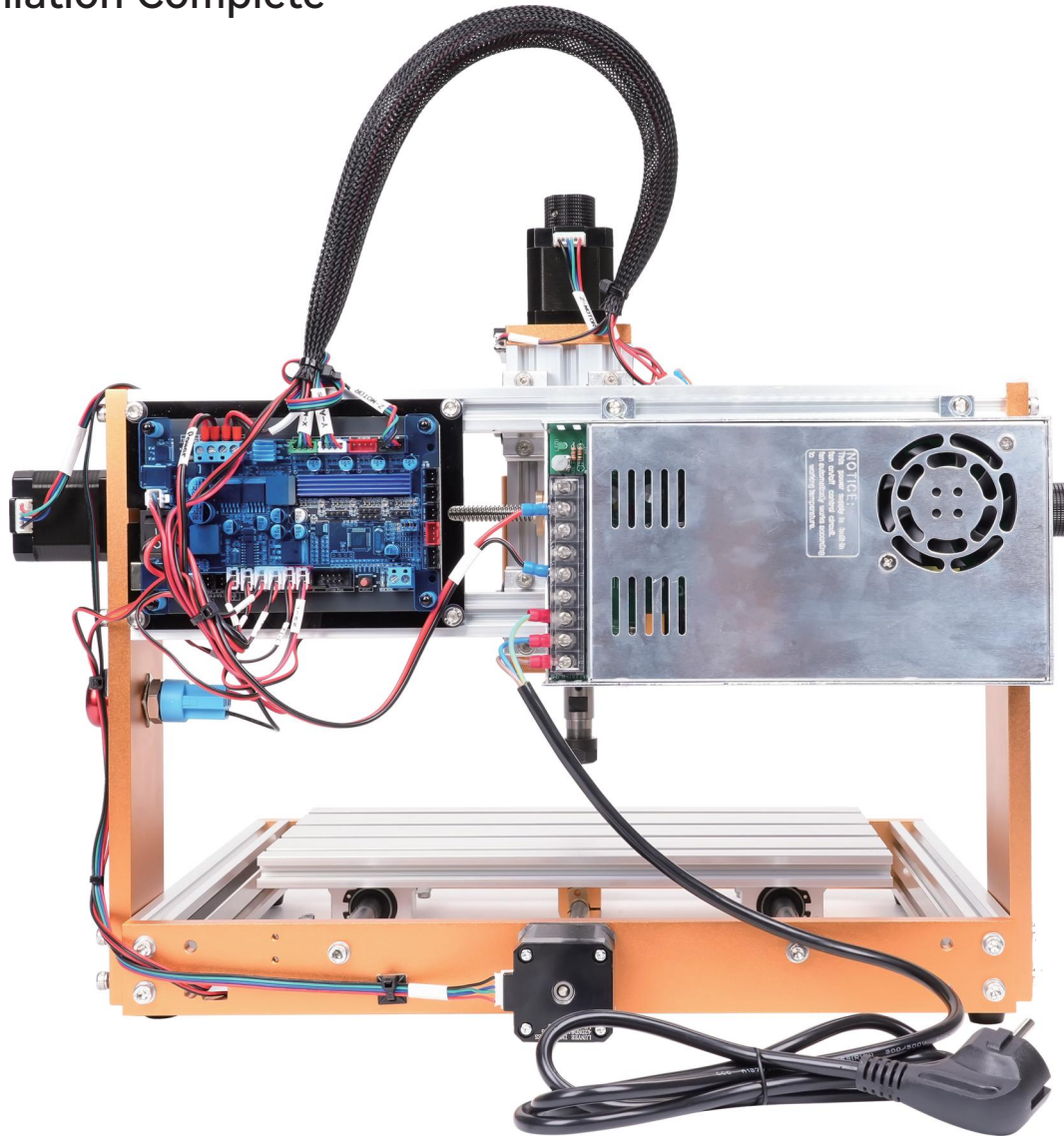
Step 6 Offline Controller Wiring Diagram



Offline Controller

!!! Warning:
The computer and offline controller cannot be connected to the engraving machine at the same time.

Step 7 Installation Complete





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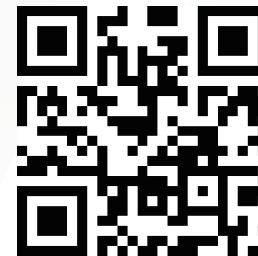
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