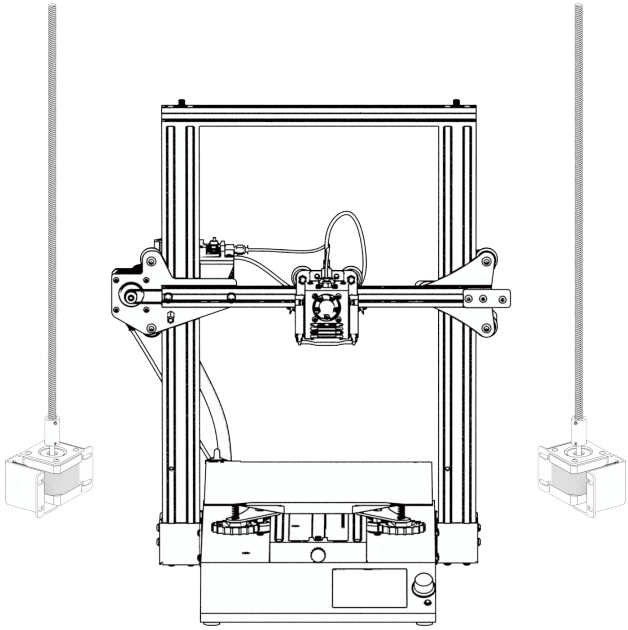
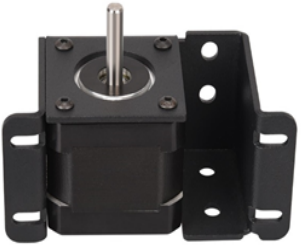
BIQU



DATASHEET

BIQU-B1 Dual Z Upgrade Kit	
	
Right screw nut fixing sheet metal	Right screw motor
	
Screw	Coupling

BIQU-B1 Dual Z upgrade kit

Specification:

- Printer type: BIQU-B1
- Upgrade kit weight: 827g (Including packing foam and carton)
- Volume of Upgrade Kit: 460mm*117mm*78mm (carton)

Product data

Screw nut

- T8 screw rod, length 415mm, lead 8, spacing 2

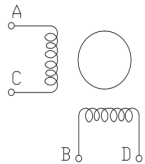
Nut

- T8 screw nut, lead 8, spacing 2

Motor Specifications

Items	Specs
Motor cable length Rated	560mm
Rated voltage	DC5.4V
Rated current	DC 1.5A/phase
Phase number	2
Winding DC resistance (25℃)	2.6X (1±10%) Ω
Winding inductance	7.5X (1±20%) mH
Holding torque	≥530mN·m
Positioning torque	14.8mN.m
Insulation resistance	≥100MΩ (DC 500V)
Insulation class	Class B
Moment of inertia	38g·cm³

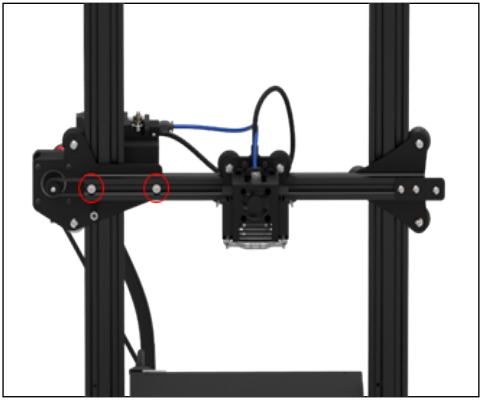
Winding arrangement

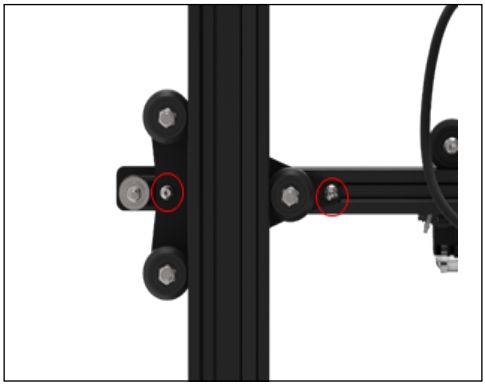


Connector Pinout

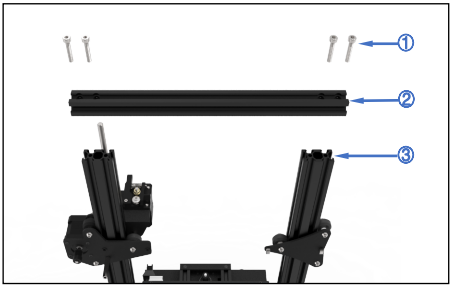
1. Install the upgrade kit

（1） Remove the X-axis beam





(2) Removal of gantry beamTake out the screws used to fix the upper beam of the gantry frame, and remove the beam.

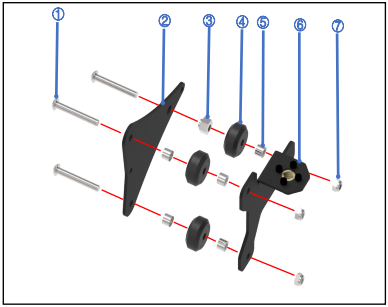


① M5x25 Hexagon Socket Cup Head Screws (4pcs)
② Profile-326mm
③ Gantry frame

(3) Remove the left slider

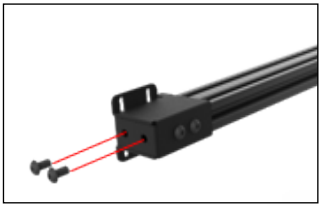
Remove the fixing POM wheel screw and install the left screw nut to fix the sheet meta

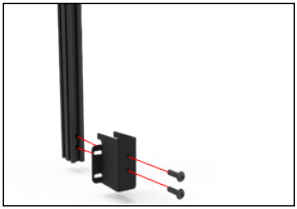
（4）Install the left slide group of the X axis



①M5x35 Hexagon Socket Button Head Screw
②X-axis left sliding group sheet metal-1
③Eccentric column
④POM wheel
⑤Cushion
⑥Screw nut fixed sheet metal
⑦M5 self-locking nut

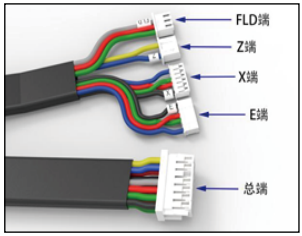
（5）Remove the left profile fixing sheet metal

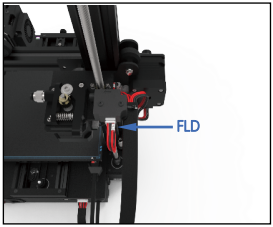


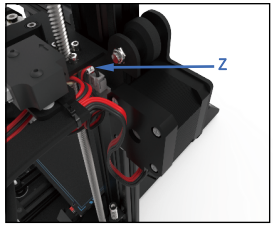


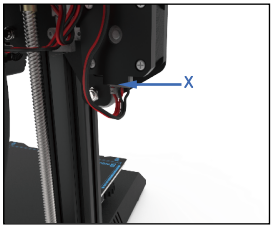
Remove the sheet metal fixing the left side gantry profile of the original machine

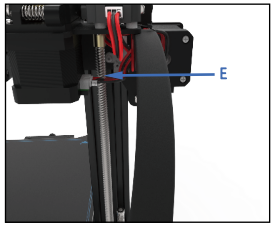
3、Connection of Data Cable

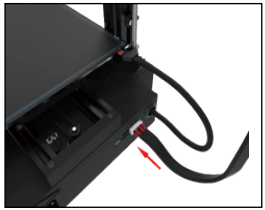




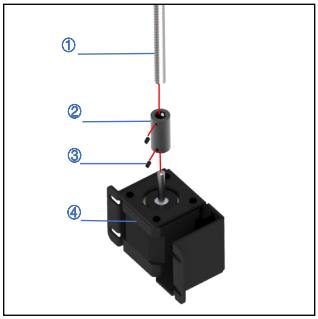


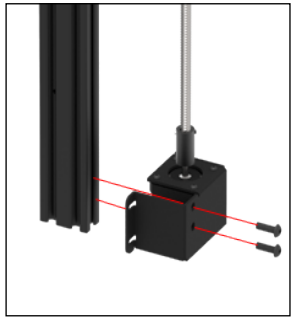


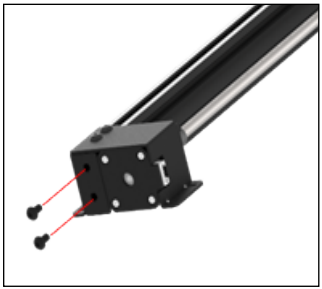


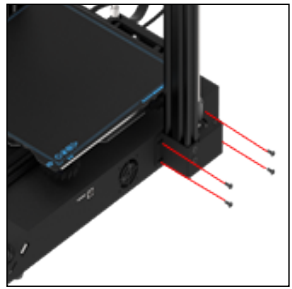


（6）Install the left screw motorInstall the screw rod of the upgrade kit.





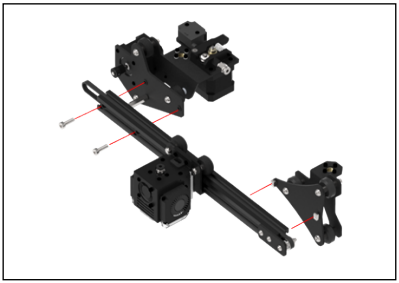


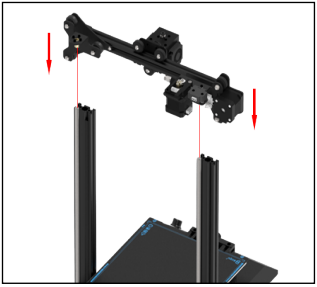


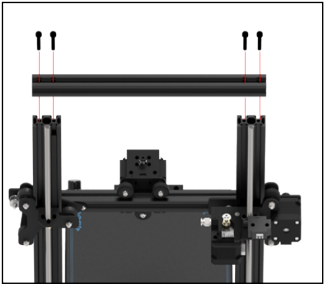
①Screw ②Coupling ③Top wire ④Motor fixing sheet metal

Use the coupling to connect the motor shaft and the screw rod, and pay attention to the top wire aligning with the plane of the motor shaft to make the fixation more secure.The screws removed from the original machine are used to install the screw motor sheet metal of the upgrade kit

（7）Install the x-axis Install the sliding group on the left side of the X-axis along the groove of the profile, and match the screw nut with the screw

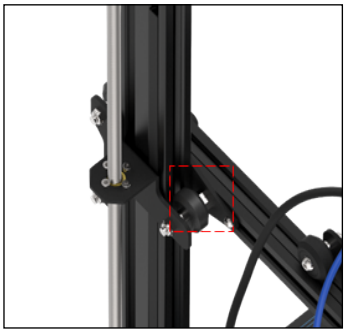


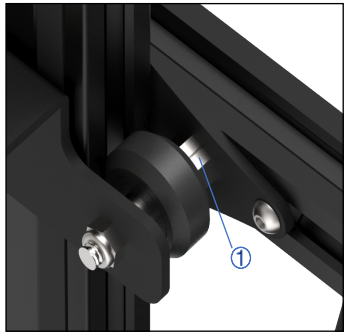




Note: The gantry frame is perpendicular to the chassis, and the distance between the bottom and the top of the frame is equal. If there is a large deviation, loosen the fixing screws of the upper profile, adjust the distance between the upper ends of the gantry, and then tighten the screws.

2、Machine fine tuning

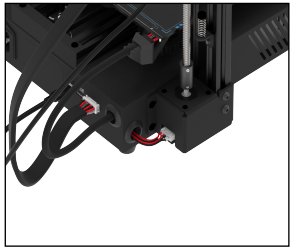


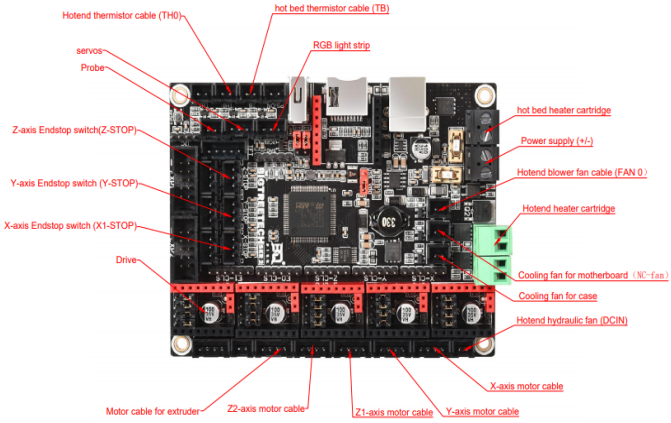


①Eccentric nut

Note: check the module on the right side of x-axis and the module on the left side of x-axis as shown in the figure above for looseness. If there is looseness, use a wrench to turn the eccentric nut on the module to make the groove on the eccentric nut approach the aluminum profile. The pulley on the eccentric nut will be pre tightened in the direction of aluminum profile, which makes the fit of the module more stable.

The installation of the machine is completed





Complete connection


BIQU