Geeetech Prusa I3 X

Copyright Declaration

Technical Support

If you are interested in the technology of 3 D printing, flight control and U-home, welcome to Geeetech, we have series of made-up products, main boards, modules and a variety of peripherals for you. Or if you are looking for relevant information or technical support, please login our Forum where you can find anything you want about open source. To know more about our new products, please visit www.geeetech.com, we will serve you wholeheartedly.

SAFETY INSTRUCTIONS

Building the printer will require a certain amount of physical dexterity, common sense and a thorough understanding of what you are doing. We have provided detailed instructions to help you assemble it easily, please download at geeetech.com.

However ultimately we cannot be responsible for your health and safety whilst building or operating the printer, with that in mind be sure you are confident with what you are doing prior to commencing with building or buying. Read the entire manual to enable you to make an informed decision.

Building and operating involves electricity, so all necessary precautions should be taken and adhered to, the printer runs on 12V supplied by a certified power supply, so you shouldn't ever have to get involved with anything over 12V but bear in mind there can still be high currents involved and even at 12V they shouldn't be taken lightly.

High temperatures are involved with 3D Printing, the Extrusion nozzle of the hot end can run about 230 ℃, the heated bed runs 110 ℃ and the molten plastic extruded will initially be at around 200 ℃, so

special care and attention should be made when handling these parts of the printer during operation.

We wouldn't recommend leaving your printer running unattended, or at least until you are confident to do so. We cannot be held responsible for any loss, damage, threat, hurt or other negligent result from either building or using the printer.

INTRODUCTION:

Geeetech Prusa I3 X is a new member of the prestigious Prusa I3 family, it was engineered to provide redefined usability, quality , performance and most important, best affordability in desktop 3D printer market.

The Geeetech Prusa I3 X is completely made from piano-black laser-cut acrylic frame. To maintain the garage-built feel and the handmade charms, Geeetech Prusa I3 X is also a DIY kit, which provides you an unforgettable step-by-step learning experience of 3D printer from scratch.

Geeetech Prusa I3 X has a wide range of customers, young or old, professional or amateur, as long as you have a passion for creativity, you can not afford to miss our Prusa I3 X.

PACKAGE   LIST:

   This list includes all the parts required to assemble your Geeetech Prusa I3 X 3D Printer. After you received your package, please check if all the parts listed are included. Also make sure all the components are in good condition and not damaged during shipping. If anything is missing please contact with our customer service straight away, provide us the NO. , Name, and Qty.

Mechanical parts				
No	Name	Specifications	Qty	Pic
1	Smooth Rod	D8*L322mm Z	2	
2	Smooth Rod	D8*L430mm X	2	
3	Smooth Rod	D8*L420mm Y	2	
4	Threaded Rod	M8*L300mm Z-axis	2	
5	Threaded Rod	M10*L450mm Y-axis	2	
6	M2.5 Washers	M2.5	6	
7	M3 Washers	M3	139	

8	M4 Washers	M4	44	
9	M10 Washers	M10	12	
10	Spring washer	M10	6	
11	Hex Nut	M2.5	6	
12	Hex Nut	M3	25	
12 A	Hex Nut	M4	44	
13	Hex Nut	M10	12	
14	Lock nut	M4	2	

15	Wing nut	M3	6	
16	Square nut	M3	58	
17	Z-axis nut	M8（tin-bronze）	2	
18	Hex Counter-sunk-head screw	M3x16 mm	2	
19	Hex Counter-sunk-head screw	M3x30 mm	4	
20	Screw	M2.5x16mm	6	
21	Screw	M3x8mm	4	
22	Screw	M3x12mm	30	
23	Screw	M3x16mm	66	
24	Screw	M3x20mm	11	
25	Screw	M3x25mm	4	
26	Screw	M3x30mm	4	

27	Screw	M3x35mm	4	
28	Screw	M3x50mm	2	
29	Screw	M4x12mm	12	
30	Screw	M4x16mm	44	
31	Screw	M4x25mm	2	
32	locking ring	M8 + M5x6mm screw	6	
33	Spring	4 x 20（for heat bed）	4	
34	Spring	3.5 x 30(for Z endstop)	1	
35	Ball Bearing	MR84zz （ Placed in No.37）	4	
36	Linear Bearing	PCS8UU	11	

37	Driving wheel		2	
38	Coupling	5-8mm	2	
39	Timing Belts	2GT L=900mm	2	
40	Driven wheel holder	Sheet metal part	2	
41	Belt mount	Sheet metal part	2	

42	Pulley	20 tooth Inner diameter=5mm	2	
44	Building platform	aluminium plate	1	
46	Dovetail clamp		4	
47	Sticker		1	
48	Heat sink	9*10*5mm	4	
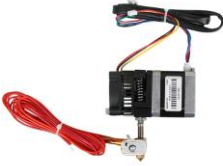
49	Spiral Coil	3 meters	1	
50	Spacer	With Aircraft type end	8	
51	Nylon ties		30	
Electronic parts				
52	End stop	2-pin Blue,red and black	1set	

53	Thermometry wire	2pin(attached on heatbed)	1	
54	Heating Wire	30cm(soldered on heatbed)	2	
55	Heatbed	MK2A	1	
56	Fan	40x40x10mm	1	
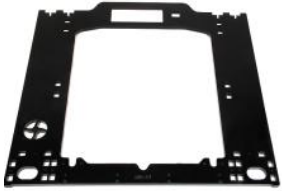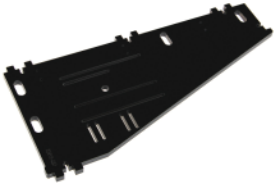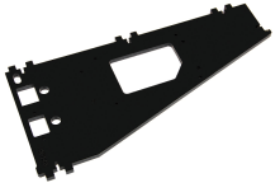
57	Extention wire	For the fan On extruder	1	
58	Power supply Unit	AC Input: 115V/1.5A 230V/0.75A DC Output：12V/0-15A	1	
59	Power Cable	Connect board to PSU	1	
60	3D Power Cable	With plug	1	
61	Extruder	MK8 extruder	1	
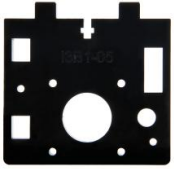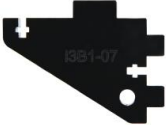
62	Control board kit	GT2560+ 4 A4988	1 set	
63	Stepper motor		4	
64	LCD 2004	LCD2004+ cable	1	
65	Knob	For LCD control	1	
66	USB cord	A-BA	1	
Acrylic parts				

A1	Main frame	I3B1-01	1	
A2	Side panel (left hand)	I3B1-02	1	
A3	Side panel (right hand)	I3B1-03	1	
Z Axis Motor Mount				
A4	Motor holder (left)	I3B1-04	1	
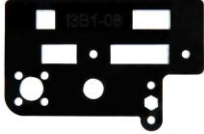
A5	Motor holder (right)	I3B1-05	1	
A6	Motor Holder support	I3B1-06	2	
A7	Motor Holder support	I3B1-07	2	
A8	Z top mount	I3B1-08	2	
Y Axis				

A9	Y axis Front support	I3B1-09	1	
A10	Y axis Front support	I3B1-10	1	
A11	Y axis Rear support	I3B1-11	1	
A12	Y axis Rear support	I3B1-12	1	
A13	Y motor holder	I3B1-13	1	
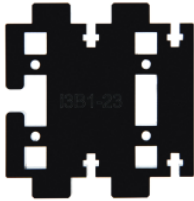
A14	Connecting fender	I3B1-14	2	
A15	Building platform support	I3B1-15	1	
X Axis Left End				
A16	X motor holder	I3B1-16	1	
A17	Left bearing top plate	I3B1-17	1	
A18	Left bearing bottom plate	I3B1-18	1	
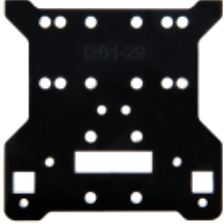
A19	X axis rod holder (left)	I3B1-19	2	
A20	X axis belt holder	I3B1-20	1	
A21	Endstop holder	I3B1-21	1	
A 22	Endstop holder	I3B1-22	1	
X Axis Right End				

A23	Right bearing holder	I3B1-23	1	
A24	Right bearing top/bottom plate	I3B1-24	2	
A25	X axis rod holder(right)	I3B1-25	1	
A26	X axis driving wheel support holder	I3B1-26	1	

	Others			
A27	X axis Fender	I3B1-27	2	
A28	Z endstop mount	I3B1-28	1	
	Extruder Carriage			
A29	X asix bearing support plate	I3B1-29	1	
A30	Extruder Braket	I3B1-30	1	

A31	extruder bracket support	I3B1-31	2	
Free add-on				
1	Ejector pin		1	
2	Grater		1	
3	Screw-drivers		1	

4	Starter filament	3 meters	1	
5	Spool holder set	Acrylic	1	

GENERAL CARE AND MAINTENANCE

As with all the electronic equipment, it is important to keep your printer clean to extend its life. Regularly remove dust and debris with a microfiber cloth or compressed air. Dredge the tube and the nozzle after use every time to ensure fluent performance.

- Don't leave the heaters on the printer turned on for a long periods of time when not used.

- Don't leave your printer in shady and moist places, which may exacerbate the problems associated with erosion.

- The three axes of the Geeetech Prusa I3 X are lubricated with grease for smooth operation and can last for a long time. Grease may need to be re-applied to your printer to maintain

smooth performance.

■ Avoid positioning your power supply unit in such a way that the brick is hanging, pulling, or putting any unnecessary stress in the electrical wires and components.

SUPPROT

Thanks for choosing Geeetech, we strive to provide a satisfied and pleasant shopping experience for you, but we do understand there may be some questions you may encounter in using our product. If so, you can contact us directly or post on our forum, our technique staff will help you resolve it. For more detailed information, you can also visit Geeetech wiki from our home page. (http://www.geeetech.com)

For detailed   instructions, please download here:

http://www.geeetech.com/unassembledgeeetech-prusa-i3-x-3d-printer-p-941.html

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