

Kelvin Cording March 2016



See Previous talk at

http://www.melpc.org/Downloads/Talks/3d%20printing3a.pdf



Many REPRAP models Originals / Copies / Build Your Own > Service - Quality - Prices Fully Assembled / Kits / Parts > Spares – Accessories \succ Online support



Selection

Original Prusa i3 Kit



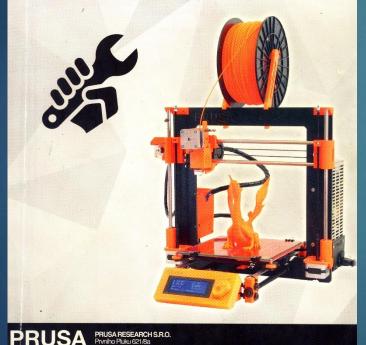
ASSEMBLY INSTRUCTIONS

ORIGINAL PRUSA i3 KIT 1.75MM

18600 Praha

www.prusa3d.cz info@prusa3d.cz

RESEARCH

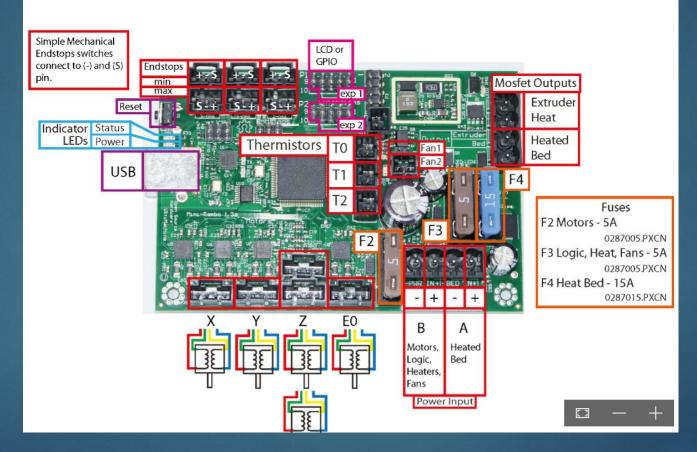




Parts well identified

			ANOT .	(100)
		225		
5.E	AXIS	howto.prusa	a3d.cz	
	00			
-	4x M3n 1x M3nN	4x M3w 2x M5w 4x M3x40		
	5x M3x18	3x M3x30	- 1	
	2x M3x20	2x 5x15s		
	1x 5x16sh	1x pulley	3(+1)x 2.5x100	
			RUSA	
	1x 625		ESEARCH	
12 martin		Part and and and		

Rambo Mini Board (R)epRap (A)rduino-(M)ega-compatible (M)other(Bo)ard



LCD control Panel



Hotbed

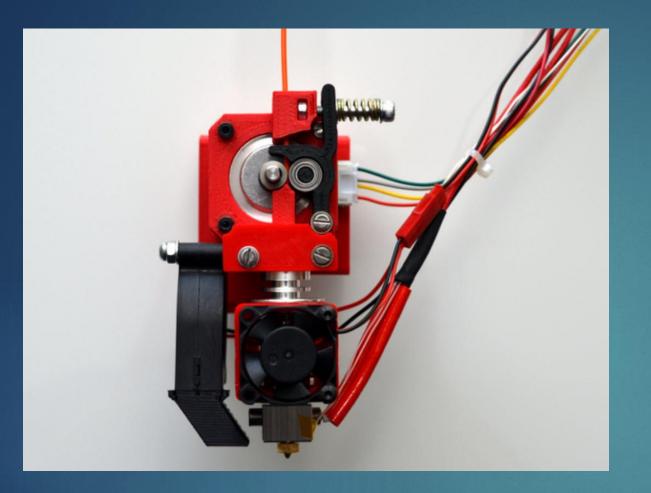


HOT ZONE DO NOT TOUCH!

CAUTION:

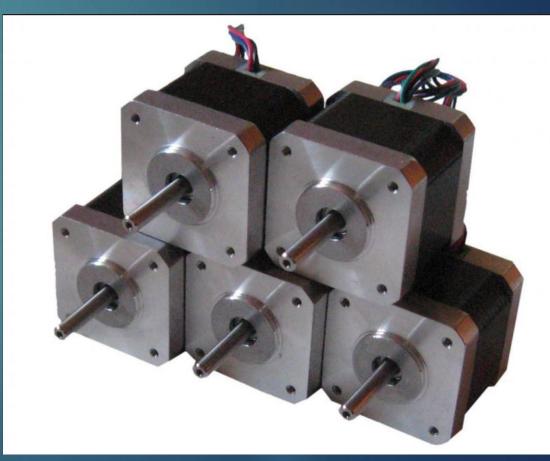
Before touching, power off the heatbed and wait at least 10 minutes! Still hot after powered off! Do not leave unattended! Keep away from children!

WARNING: Still hot after LED goes out!



Extruder

Servo Motors





	STING PROTOCOL 19.02.	2016
	Firmware flash	[ОК]
	Printer Communication	[OK]
	SD Card init	[OK]
	FANO init state	[OK]
	FAN1 init state	[OK]
	X axis movement	[OK]
	Y axis movement	[OK]
	Z axis movement	[OK]
	SD card	[OK]
	Hotend @50 'C in 25s	[OK]
	FANO trigger 050 'C	[OK]
	FAN1 trigger M106	[OK]
	Hotend @240 'C in 2min	
	Heatbed 097 'C in 8min	
1	LCD panel	[OK]
1		
Ma	ximum 243.30 °C reached	in 78 s
	iximum 243.30°°C reached ed heating graph Temperature/°C over	

16-65756

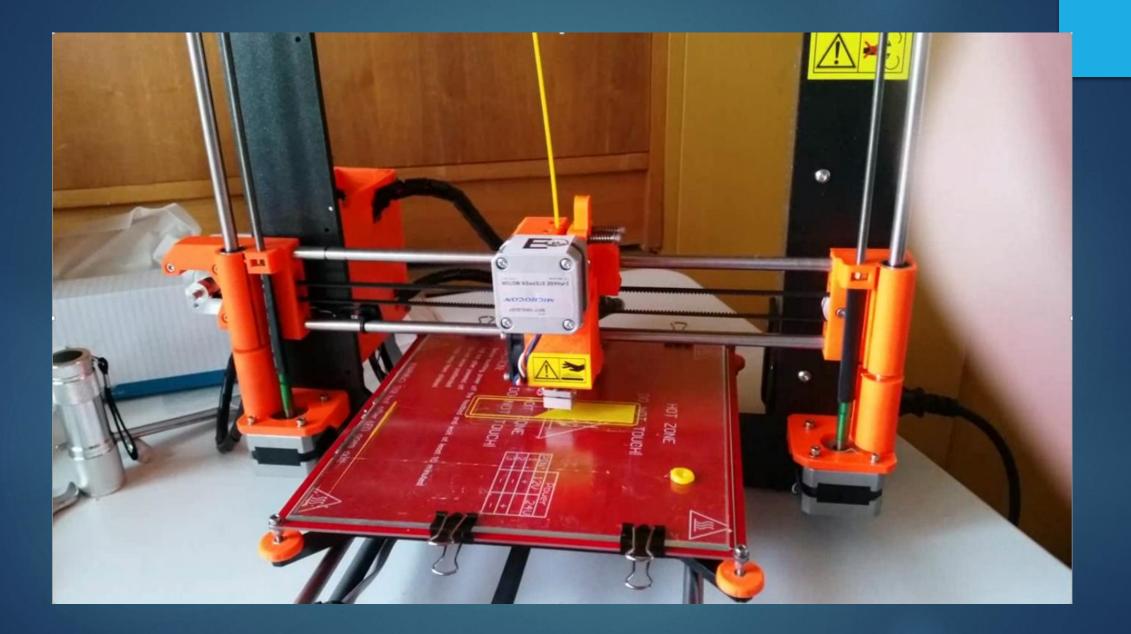
Electronics and heatbed test prior to delivery

1.75 mm version	PRUSA
prusa3d.com	
90-135 VAC, 2 A	RESEARCH
180-264 VAC, 1 A Proudly made in Prague	Prusa Research s.r.o Prvniho pluku 8
Touchy made in Frague	186 00 Pragu



My Kit

Fully assembled



Commissioning

Glass Preparation

Calibration



Glass Preparation

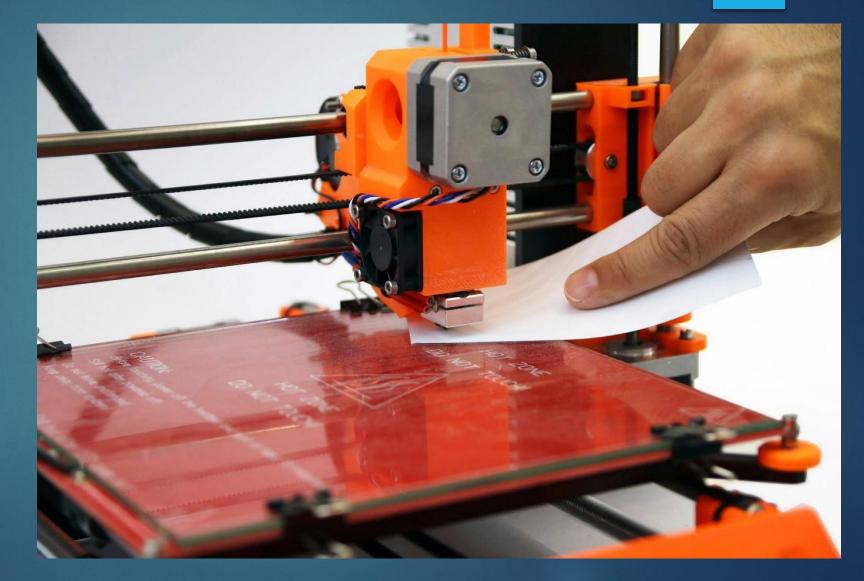
To allow model to stick to glass when being printed

- Apply one coat of glue to glass when cold (once only.)
- If glass is cleaned in warm water, a new glue layer needs to be applied
- Spray glass with "ABS Juice" before each new model is printed
- ABC Juice is made up from ABS filament dissolved in acetone. (30ml to 34cm ABS (1.75mm))

Calibration

Involves ensuring the hotbed with glass on top is heated to the correct temperature and the extruder nozzle is the correct height above the glass bed on all four corners.

Correct height is about the thickness of a business card



Software

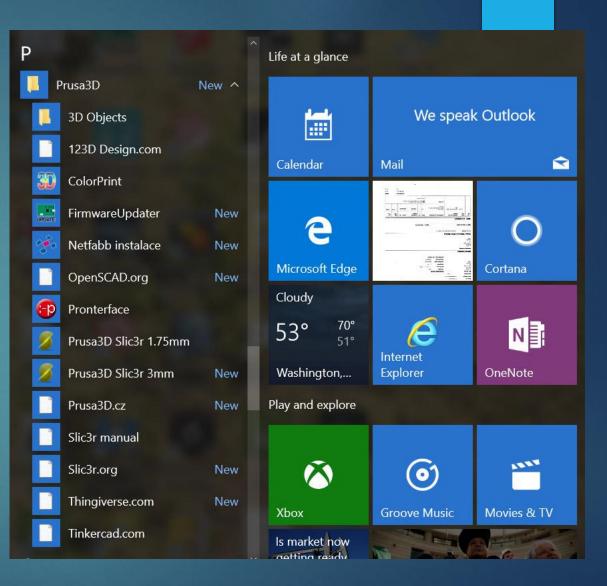
Printer can be driven from "g-code" files on SD card in printer LCD unit or from PC connected via USB cable.

Content of Supplied SD card

mputer > PRUSA I3 (L:)					
Name	Date modified	Туре	Size		
📬 3DHubs_Marvin.stl	17/09/2015 4:16 PM	3D Object	659 KB		
ABS_2x_3DHubs_Marvin_1H.gcode	17/09/2015 7:28 PM	GCODE File	2,060 KB		
ABS_Adalinda_200um_6H.gcode	23/09/2015 11:26	GCODE File	15,975 KB		
ABS_Batman_200um_30M.gcode	17/08/2015 2:43 PM	GCODE File	310 KB		
ABS_Gear_Bearing_200um_2H.gcode	17/09/2015 5:08 PM	GCODE File	7,617 KB		
ABS_Prusa_200um_30M.gcode	17/08/2015 2:43 PM	GCODE File	288 KB		
ABS_Whistle_200um_30M.gcode	17/08/2015 2:43 PM	GCODE File	752 KB		
📬 Adalinda.stl	23/06/2015 3:42 PM	3D Object	2,476 KB		
🞵 Batman.stl	12/09/2013 7:35 AM	3D Object	1,303 KB		
👖 Castle.stl	25/10/2015 4:55 PM	3D Object	2,805 KB		
👖 Gear_Bearing.stl	17/05/2013 3:22 PM	3D Object	3,688 KB		
MODEL_AUTHORS.txt	30/10/2015 5:28 PM	Text Document	2 KB		
PLA_3DHubs_Marvin_100um_1H.gcode	13/09/2015 1:17 PM	GCODE File	2,929 KB		
PLA_Adalinda_200um_9H.gcode	14/09/2015 11:28	GCODE File	23,832 KB		
PLA_Castle_100um_23H.gcode	26/10/2015 6:05 PM	GCODE File	30,173 KB		
PLA_Gear_Bearing_100um_5H.gcode	16/09/2015 10:49	GCODE File	17,039 KB		
PLA_Prusa_200um_30M.gcode	22/09/2015 1:30 PM	GCODE File	299 KB		
PLA_Treefrog_50um_3H.gcode	27/10/2015 12:02	GCODE File	10,390 KB		
PLA_Vase_200um_5H.gcode	27/10/2015 12:22	GCODE File	7,113 KB		
👖 Prusa.stl	20/11/2014 7:52 PM	3D Object	31 KB		
prusa_1_75.gcode	19/08/2015 10:24	GCODE File	401 KB		
prusa_1_75-dual_color.gcode	18/09/2015 6:40 AM	GCODE File	401 KB		
🖪 Treefrog.stl	9/01/2013 8:14 PM	3D Object	11,535 KB		
📢 Vase.stl	27/10/2015 12:23	3D Object	1,415 KB		

Software

3d Modelling and other printer software for use on a PC to drive the 3D printer supplied as a single executable.



Whoopee... It all works !!!



Next Session

Software

- Obtaining 3D models to print
- Creating you own models
- Creating Files to drive your printer
- Controlling your printer from PC

Filaments used from printing 3D models

Questions

Discussion

Demonstration