Title   Printing guide for the Voron Trident 1.9
Date   2021-12-08
Copy-rite None. Free domain, Be free.
Warranty   None. Use at own risk. For entertainment purposes only
Author
 Initial   Stephen George (Original idea and creation)

Introduction
You order the parts and vitamins in the sourcing guide and while you are waiting
you print the plastic parts, all 185 of them. The vitamins arrive and now you
have to work out what goes where. Or you use this guide to print the parts as
you need them, possibly the night before.

Print parameters (More details on page 4 of Trident manual)
Material ABS, Infill gyroid, Infill 40% Layer_height 0.2mm, Wall_count 4, Nossil
4mm, Top/bottom layers 5

The Rules
The first time a picture of the part is shown in the instructions it should be
added to the list. After that it's ignored as you should have already printed
it.

The Machine the parts are for
Building Formbot kit, 250 x 250, Direct feed, Dragon High Flow, 3 hole cable
chain.

Keeping track
The Printed ☐ tick box in the page number box is for your use.

It allows you to print out this pdf (without this header page) and tick off the
parts as they come off the printer. Hopefully you won't double print when you
don't want to.

Future Improvements to this doc
1) Different colour scheme for accent pictures
2) Removal of background of pictures
3) Time of print using a Prusa mini as a guide

Any other ideas please visit old.reddit.com/r/VORONDesign

Source files
https://github.com/LesserSpottedAustralianSquirel/voron_trident_pic
This include this .pdf and the source files

Notes
This is fan base documentation. The official document take precedence in any
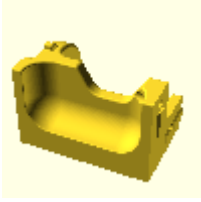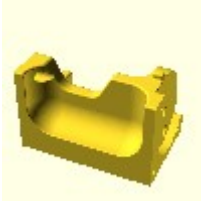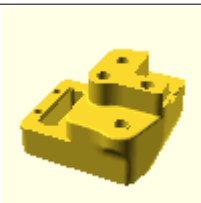conflict of information or technical detail.

Silly quote
May your Voron print head always fly "straight and true" and never get tired and
go to bed.

Picture	Directory	Name in directory (.stl)	Name in manual	Page number Have you printed it	Accent_part / Notes
	STLs/ Gantry/ AB_Drive_Un its	a_drive_frame_u pper.stl		26 Printed? ☐ Yes Place ✓ above	
	STLs/ Gantry/ Front_Idler s	[a]_tensioner_r ight.stl		27 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/ Gantry/ Front_Idler s	[a]_tensioner_r ight.stl		27 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/ Gantry/ Front_Idler s	front_idler_a_x 2.stl	A idler	28 Printed? ☐ Yes	x2
	STLs/ Gantry/ Front_Idler s	front_idler_b_x 2.stl		28 Printed? ☐ Yes	x2
	STLs/ Gantry/ AB_Drive_Un its	a_drive_frame_l ower.stl	A Drive	34 Printed? ☐ Yes	

	STLs/Tools	AB_pulley_jig.stl		35 Printed? ☐ Yes	Tool
	STLs/Gantry/AB_Drive_Units	b_drive_frame_lower.stl	B drive	37 Printed? ☐ Yes	
	STLs/Gantry/AB_Drive_Units	b_drive_frame_upper.stl	B drive	37 Printed? ☐ Yes	
No pic as Vitamin		T-Nuts M5 "Roll in" T nuts		44 Printed? ☐ Yes	They don't have to go into the end. They can be "rolled in". No need to disassemble frame.
Warning Lone M3 on page		T-Nuts M3 Lone M3 pretending to be M5		44 Printed? ☐ Yes	Beware Of Of the lone lone M3 T-nut. Which I read as an M5 and had to get it back out
	STLs/Gantry/AB_Drive_Units	[a]_y_endstop_bumper.stl		50 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Z_Assembly	z_rear_extrusionbracket_left.stl	Rear Brace	53 Printed? ☐ Yes	

	STLs/ Z_Assembly	z_rear_extrusio nbracket_right. stl	Rear Brace	53 Printed? ☐ Yes	
	STLs/Tools	MGN9_rail_guide _x2.stl	Guide	58 Printed? ☐ Yes	Accent_part x2
	STLs/ Z_Assembly	z_carriage_rear _3hole.stl	Generic Cable Chain (3 hole)	64 Printed? ☐ Yes	Check directory for 2 hole version if required
	STLs/ Z_Assembly	z_stepper_rear. stl		65 Printed? ☐ Yes	
	STLs/ Z_Assembly	[a]_z_rail_stop _x3.stl		68 Printed? ☐ Yes	Accent_part x3
	STLs/ Z_Assembly	z_stepper_left. stl		69 Printed? ☐ Yes	
	STLs/ Z_Assembly	z_stepper_right .stl		73 Printed? ☐ Yes	
	STLs/ Z_Assembly	z_carriage_left .stl	Left Z Joint	77 Printed? ☐ Yes	

	STLs/ Z_Assembly	[a]_z_carriage_ left.stl		77 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/ Z_Assembly	[a]_z_carriage_ right.stl		79 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/ Z_Assembly	z_carriage_righ t.stl		79 Printed? ☐ Yes	
	STLs/Skirt	corner_a_x2.stl	Feet	90 Printed? ☐ Yes	X2 Beware of elephants feet on printing
	STLs/Skirt	corner_b_x2.stl	Feet	90 Printed? ☐ Yes	X2 Beware of elephants feet on printing
	STLs/Skirt	[a]_corner_base plate_a_x2.stl		90 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Skirt	[a]_corner_base plate_b_x2.stl	Is this any differen t to [a]_corn er_basep late_a_x 2.stl?	90 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/ Gantry/ X_Axis/ XY_Joints	xy_joint_left_l ower_MGN12.stl	Left XY Joint	99 Printed? ☐ Yes	

	STLs/ Gantry/ X_Axis/ XY_Joints	xy_joint_left_upper_MGN12.stl		99 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ XY_Joints	xy_joint_right_lower_MGN12.stl	Right XY Joint	99 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ XY_Joints	xy_joint_right_upper_MGN12.stl		99 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ X_Carriage	x_carriage_frame_left.stl		99 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ X_Carriage	x_carriage_frame_right.stl		99 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ X_Carriage	probe_retainer_bracket.stl		100 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ X_Carriage	probe_retainer_bracket_9mm.stl		100 Printed? ☐ Yes	
	STLs/ Gantry/ X_Axis/ XY_Joints	[a]_xy_joint_cable_bridge_3hole.stl		100 Printed? ☐ Yes	Accent_part Check directory for 2 hole version if required

	STLs/Tools	MGN12_rail_guide_x2.stl		113 Printed? ☐ Yes	Tool x2
?	?	?	?	129 Printed? ☐ Yes	I am guessing the blue part is a thermal fuse. Not an STL
	STLs/ Z_Assembly	nozzle_probe.stl		130 Printed? ☐ Yes	
	STLs/ Z_Assembly	z_bed_left.stl		134 Printed? ☐ Yes	
	STLs/ Z_Assembly	z_bed_rear.stl		136 Printed? ☐ Yes	
	STLs/ Z_Assembly	z_bed_right.stl		138 Printed? ☐ Yes	

<u>After burner</u> (superseded? With the stealth burner?)
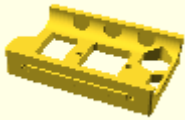
Picture	Directory	Name in directory (.stl)	Name in instructions	Page number	Accent_part / Notes
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	extruder_mot or_plate.stl		146 Printed? ☐ Yes	
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	chain_anchor _3hole.stl		146 Printed? ☐ Yes	Check directory for 2 hole version if required
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	[a]_latch_sh uttle.stl		146 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	extruder_bod y.stl		147 Printed? ☐ Yes	
	STLs/Gantry/ X_Axis/ X_Carriage/ Toolheads/ Dragon	printhead_fr ont_dragon.s tl	DRAGON MOUNT	148 Printed? ☐ Yes	DRAGON mount DO YOU HAVE A DRAGON hot end?
	STLs/Gantry/ X_Axis/ X_Carriage/ Toolheads/ Dragon	printhead_re ar_dragon.st l		149 Printed? ☐ Yes	DRAGON mount DO YOU HAVE A DRAGON hot end?
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	[a]_latch.st l		161 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *

Picture	Directory	Name in directory (.stl)	Name in instructions	Page number	Accent_part / Notes
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	[a]_guidler. stl		161 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Gantry/ X_Axis/ X_Carriage/ Direct Feed	[a]_connecto r_cover.stl		163 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Gantry/ X_Axis/ X_Carriage	[a]_blower_h ousing_front .stl		167 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Gantry/ X_Axis/ X_Carriage	blower_housi ng_rear.stl		167 Printed? ☐ Yes	
	STLs/Gantry/ X_Axis/ X_Carriage	hotend_fan_m ount.stl		168 Printed? ☐ Yes	

Back to the printer

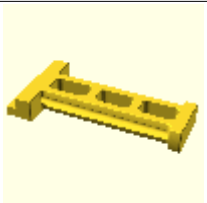| Picture	Directory	Name in directory (.stl)	Name in instructions	Page number	Accent_part / Notes
	STLs/ Z_Assembly	z_cable_chai n_mount_3hol e.stl	Z chain Anchor	173 Printed? ☐ Yes	Check directory for 2 hole version if required
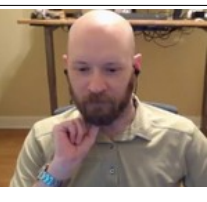
				175	
	STLs/Panels	wire_corner_left.stl	Cable Cover	Printed? ☐ Yes	
	STLs/Panels	wire_corner_right.stl		176 Printed? ☐ Yes	
	STLs/ElectronicsBay	cable_frame_anchor_x6.stl		178 Printed? ☐ Yes	x6
	STLs/Panels	DIN_center_support_x2.stl		181 Printed? ☐ Yes	x2
	STLs/Panels	DIN_frame_mount_x4.stl		181 Printed? ☐ Yes	x4
	STLs/Panels	pcb_din_clip_v2_x5.stl		189 Printed? ☐ Yes	x5
	STLs/Panels	raspberrypi_bracket.stl		189 Printed? ☐ Yes	
	STLs/Panels	lrs_psu_bracket_x2.stl		191 Printed? ☐ Yes	x2

	STLs/Skirt	power_inlet_ filtered.stl		195 Printed? ☐ Yes	
	STLs/ ElectronicsB ay	PSU_stabiliz er_50mm.stl		198 Printed? ☐ Yes	
			Springloaded Can't find	199 Printed? ☐ Yes	Possibly not printed part
			Springloaded Can't find	199 Printed? ☐ Yes	Possibly not printed part
	STLs/ ElectronicsB ay	raspberrypi_ bracket.stl	Raspberry pi mounting Can't find	201 Printed? ☐ Yes	WARNING LOOKS NOTHING LIKE PICTURE IN MANUAL I HAVE DONE SOMETHING WRONG
			Can't find	202 Printed? ☐ Yes	
	STLs/Gantry/ X_Axis/ XY_Joints	[a]_endstop_ pod_microswi tch.stl		203 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Gantry/ AB_Drive_Uni ts	[a]_wire_cov er.stl		225 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Skirt	side_fan_sup port_x2.stl		233 Printed? ☐ Yes	x2

	STLs/Skirt	keystone_pan el.stl		233 Printed? ☐ Yes	
	STLs/Skirt/ 250	front_skirt_ a_250.stl		233 Printed? ☐ Yes	WARNING 250mm x 250mm do you have this bed size?
	STLs/Skirt/ 250	front_skirt_ b_250.stl		233 Printed? ☐ Yes	WARNING 250mm x 250mm do you have this bed size?
			LED screen Cant find	234	
	STLs/Skirt	mini12864_ca se_front.stl		234 Printed? ☐ Yes	
	STLs/Skirt	mini12864_ca se_rear.stl		235 Printed? ☐ Yes	
			Can't find round thing	235 Printed? ☐ Yes	
	STLs/Skirt	[a]_mini1286 4_case_hinge .stl	Cant find T shape	236 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	STLs/Skirt	[a]_keystone _blank_inser t_x2.stl		237 Printed? ☐ Yes	Accent_part (file name has a [a] ie. * x2

	STLs/Skirt	[a]_skirt_lo go_x2.stl		237 Printed? ☐ Yes	Accent_part (file name has a [a] ie. *
	side_skirt_a _250_x2.stl	rear_center_ skirt_250.st l		241 Printed? ☐ Yes	Warning 250x205
	STLs/Skirt$	side_skirt_a _250_x2.stl		242 Printed? ☐ Yes	x2
	STLs/Skirt$	[a]_60mm_fan _blank_inser t_x2.stl		244 Printed? ☐ Yes	Accent_part (file name has a [a] ie. * x2
	STLs/Panels	bottom_panel _hinge_x2.st l		250	x2
	STLs/Panels	corner_panel _clip_4mm_x8 .stl		254 Printed? ☐ Yes	Warning 4mm or 6mm part?
	STLs/Panels	midspan_pane l_clip_4mm_x 7.stl		254 Printed? ☐ Yes	Warning 4mm or 6mm part?
	STLs/Panels/ Front_Doors	latch_x2.stl		263	

	STLs/Panels/ Front_Doors	handle_a_x2. stl		263	x2
	STLs/Panels/ Front_Doors	handle_b_x2. stl		263	x2
	STLs/Panels/ Front_Doors	latch_x2.stl		263	x2
	STLs/Panels/ Front_Doors	door_hinge_x 6.stl		265	x6
	STLs/ Exhaust_Filt er	exhaust_filt er_housing.s tl		268	
	STLs/ Exhaust_Filt er	[a]_filter_a ccess_cover. stl		270	Accent_part (file name has a [a] ie. *
	STLs/ Exhaust_Filt er	[a]_exhaust_ filter_mount _x2.stl		272	Accent_part (file name has a [a] ie. * x2
	STLs/ Exhaust_Filt er	exhaust_filt er_grill.stl		272	

	STLs/ Spool_Management	bowen_retainer.stl		275	
	STLs/ Spool_Management			276	
	Unknown		Steve	280	In the red shirt. Well reddish. It's in that spectrum
	Unknown		Eddie	280	This is not a red shirt
	Unknown		Dunar	280	Support structure may be required for the beard.
	Unknown	[a]_Russiancat food	Maks Zolin Fearless leader	280	Accent_part (file name has a [a] ie. * May require multiple materials

Done!

I have one question for you.
Did you print the tool on page 58 in the accent colour?

☐ Yes, because it's cool

☐ No, Mr George, Because I am on to you

Place ✓ above