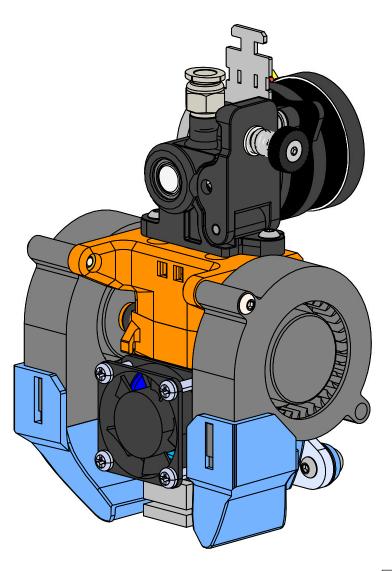
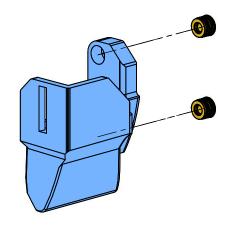
Threaded Heatsink Edition. V6/V7 Compatible.

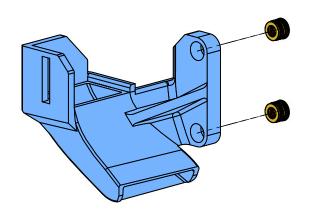


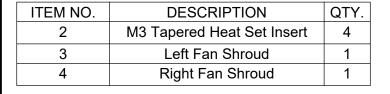
THR Baby Bullet Assembly			
<u>@</u>	(i) BY	Created by: Joshua Vasquez	last edited: 3/26/2022
		SCALE: 1:1	SHEET 1 OF 18

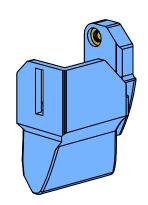
Install these heat sert inserts using the Plate Press Technique

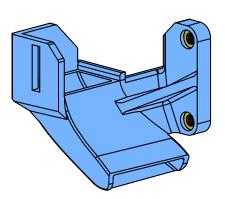
Be gentle as the heat from the installation tool can warp the flatness of the back surface of the part. If that happens, cool the part on a flat metal plate while applying gentle pressure to flatten it.





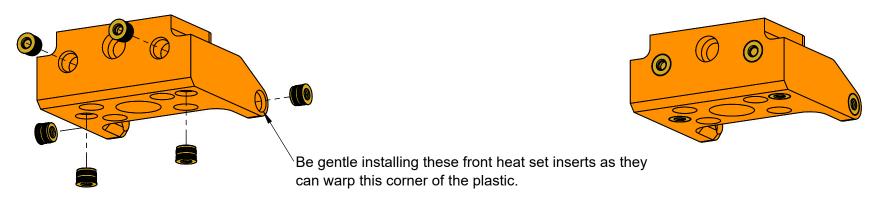






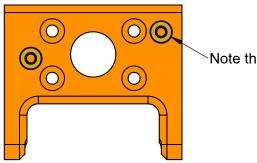
Heat Set Insert Installation 1			
<u>@</u>	(i)	Created by: Joshua Vasquez	last edited: 3/26/2022
		SCALE: 1:1	SHEET 2 OF 18

Install these heat sert inserts using the Plate Press Technique



If you see this plastic warping, you can still push it back to it's original form while the plastic is still warm.

Top View

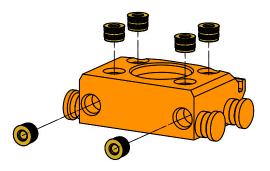


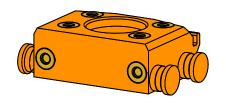
Note that the top inserts go in opposite corners.

ITEM NO.	DESCRIPTION	QTY.
1	M3 Tapered Heat Set Insert	6
2	Top Base Piece	1

Heat Set Insert Installation 2				
<u>@</u>	(i)	Created by: Joshua Vasquez	last edited: 3/26/2022	
		SCALE: 1:1	SHEET 3 OF 18	

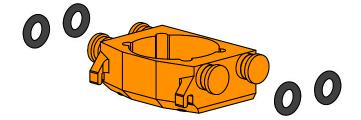
Install these inserts like before.

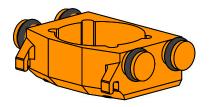




ITEM NO.	DESCRIPTION	QTY.
1		1
2	M3 Tapered Heat Set Insert	6

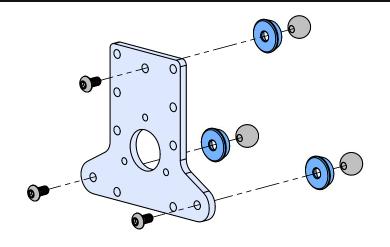
Heat Set Insert Installation 3			
6	(1)	Created by:	last edited:
	BY	Joshua Vasquez	3/26/2022
		SCALE: 1:1	SHEET 4 OF 18

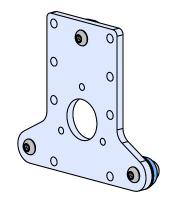


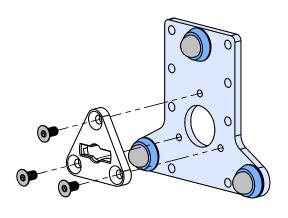


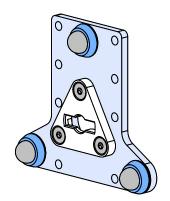
ITEM NO.	DESCRIPTION	QTY.
2	M3 Tapered Heat Set Insert	6
3	5x9x2 O-Ring	4

	O-Ring Installation			
(3)	(i)	Created by:	last edited:	
	BY	Joshua Vasquez	3/26/2022	
		SCALE: 1:1	SHEET 5 OF 18	







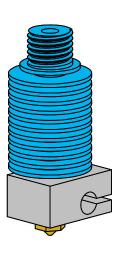


ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 6mm long	3
2	M3 Flathead Screw, 6mm long	3
3	M3 Threaded 8mm Tool Ball	3
4	Tool Ball Cup	3
5	Wedge Plate	1
6	Tool Plate	1

Tool Plate Assembly			
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	SCALE: 3:4	SHEET 6 OF 18	

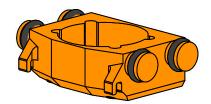
Put together an E3DV6 Assembly based on E3D's Assembly Guide.

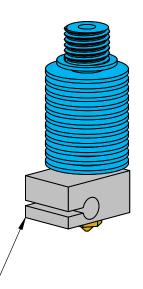
Include the Heater and Thermistor but not the PTFE Tube and not the fan shroud.



E3D V6 Assembly			
<u>@</u>	(i) BY	Created by: Joshua Vasquez	last edited: 3/26/2022
		SCALE: 1:1	SHEET 7 OF 18



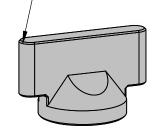


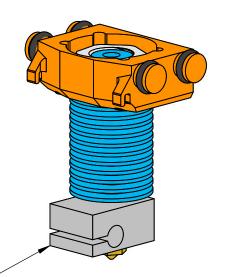


Note the orientation.

ITEM NO.	DESCRIPTION	QTY.
1 Bottom Base with Inserts		1
2	Hotend with PTFE Tube Installed	1
3	M12 Threaded Heatsink Nut	1
4	Threaded Heatsink Wrench	1

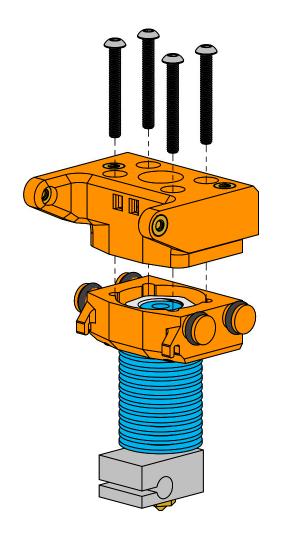
Use the nut tightener to secure the heatsink. Remove the tightener when done.

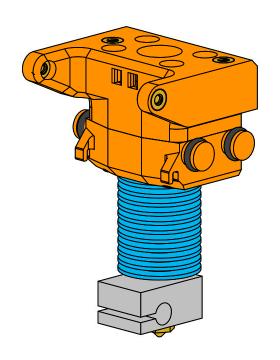




Do not use this part of the hotend as a way to hold onto the assembly while tightening or the heatbreak will snap. Instead, hold onto it from the heatsink.

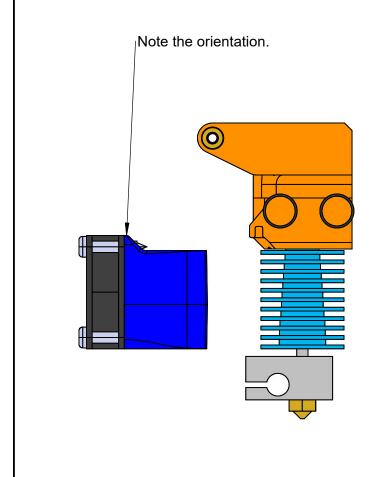
Hotend Installation			
60 ((1)	Created by:	last edited:
ВУ		Joshua Vasquez	3/26/2022
		SCALE: 1:1	SHEET 8 OF 18

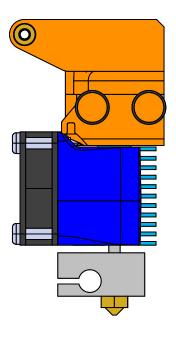




ITEM NO.	DESCRIPTION	QTY.
1	Top Base Piece with Inserts	1
4	M3 Buttonhead Screw, 25mm long	4

Hotend Base Assembly 1			
	(1)	Created by:	last edited:
(CC)	BY	Joshua Vasquez	3/26/2022
		SCALE: 1:1	SHEET 9 OF 18





Hotend Base Assembly 2			
	Created by:	last edited:	
CC BY	Joshua Vasquez	3/26/2022	
	SCALE: 1:1	SHEET 10 OF 18	

Use a PTFE Tube Cutter to cleanly cut the PTFE tube to the length specified below.



60.5mm for E3DV6 hotends. 45mm for E3D Revo6 hotends.

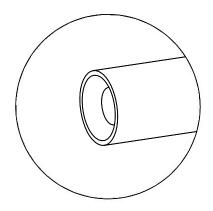
Ensure that the resulting cut is clean on both ends.





Not OK!

OK!

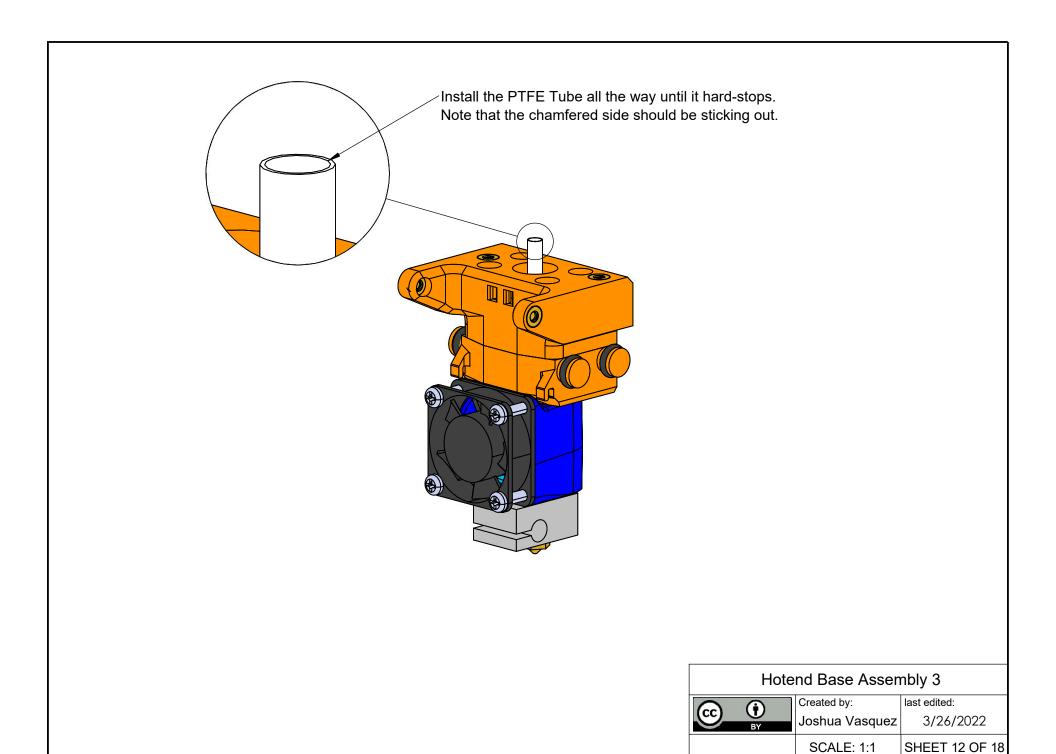


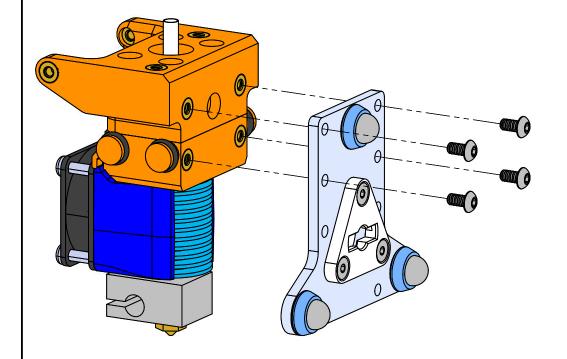
With a box cutter blade or chamfering tool, shape one end of the PTFE Tube.

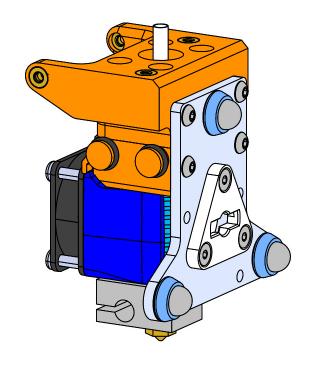
Ensure that the PTFE Tube is clean on both ends and there is no debris anywhere in the tube or at the tips.

Warning: it is **absolutely critical** that the PTFE tube is cut cleanly and has **no debris**. Any small flakes of PTFE tube will result in horrific tool jams that are hard to debug

E3D PTFE Assembly			
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		SCALE: 1:1	SHEET 11 OF 18

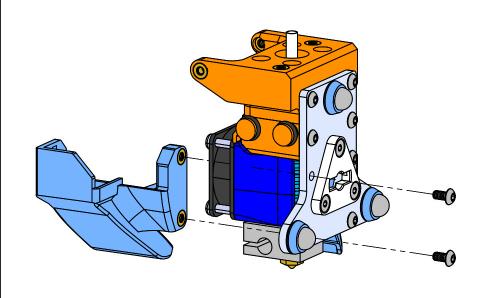


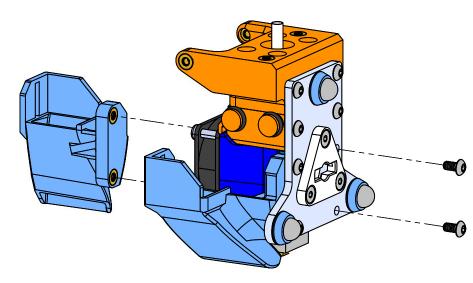




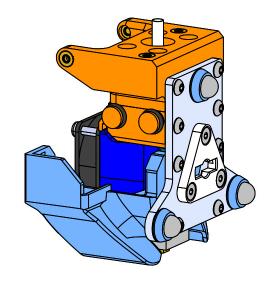
ITEM NO.	DESCRIPTION	
1	M3 Buttonhead Screw, 20mm long	4
2	Base Tool Plate Assembly	1

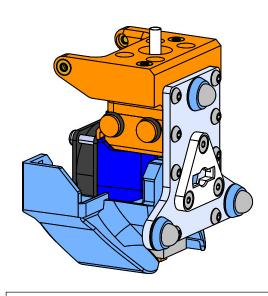
Hotend Assembly Installation			
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		SCALE: 1:1	SHEET 13 OF 18



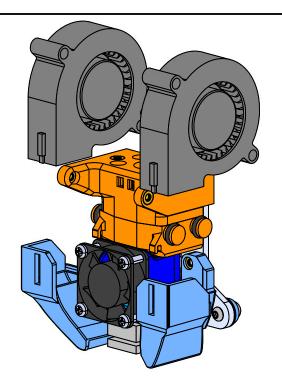


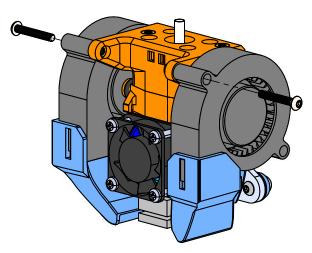
ITEM NO.	DESCRIPTION	
1	M3 Buttonhead Screw, 6mm long	4
2	Right Fan Shroud with Inserts	1
3	Left Fan Shroud With Inserts	1



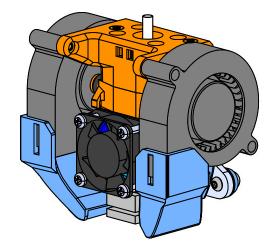


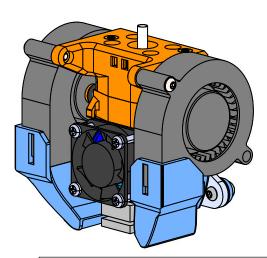
Fan Shroud Installation			
	Created by:	last edited:	
BY	Joshua Vasquez	3/26/2022	
	SCALE: 3:4	SHEET 14 OF 18	





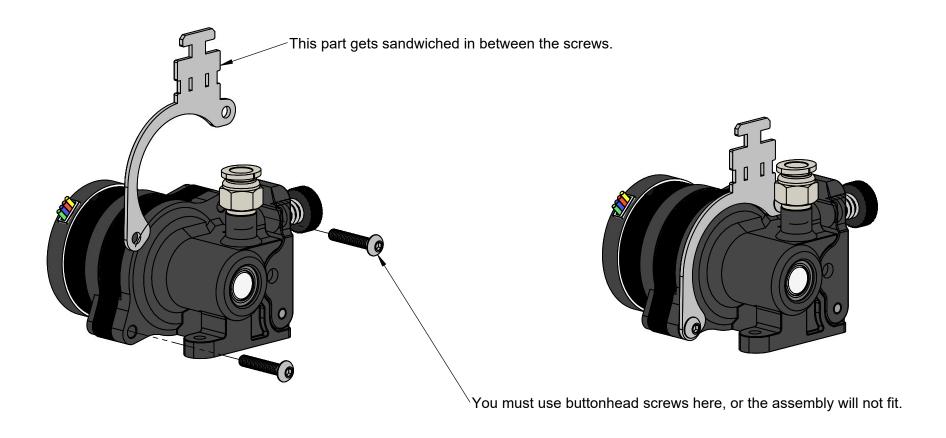
ITEM NO.	DESCRIPTION	
1	M3 Buttonhead Screw, 20mm long	2
2	5015 Blower Fan	2
7	Hotend Assembly	1





Fan Installation			
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	SCALE: 2:3	SHEET 15 OF 18	

This step is for the Orbiter 1.5. For Obiter 2.0 see the next page.



Note that the clearances for fitting these parts together are quite tight.

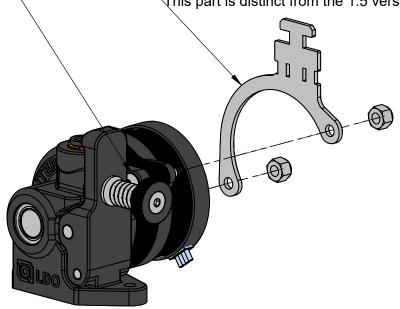
ITEM NO.	DESCRIPTION	QTY.
2	Orbiter 1.5 Assembly	1
3	Wire Harness Strain Relief	1
4	M3 Buttonhead Screw, 16mm long	2

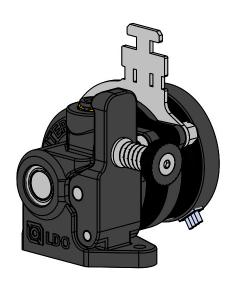
Orbiter 1.5 Prep			
@ (D	Created by: Joshua Vasquez	last edited: 3/26/2022
		SCALE: 1:1	SHEET 16 OF 18

This step is for the Orbiter 2.0. For Obiter 1.5 see the previuos page.

Replace the included screws with wo M3, 18mm long screws.

This part is distinct from the 1.5 version and attaches behind the motor bolt holes.

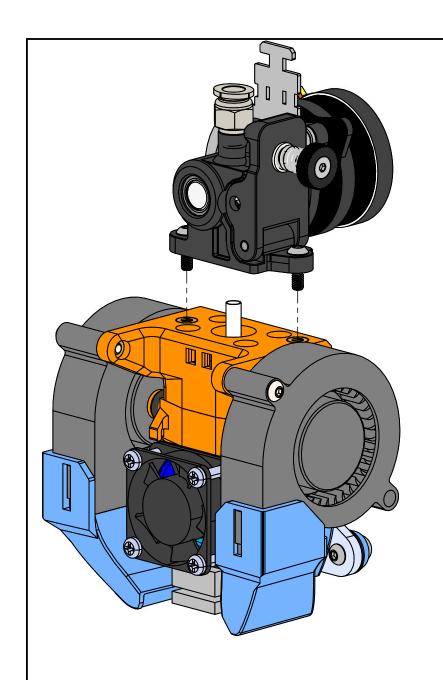




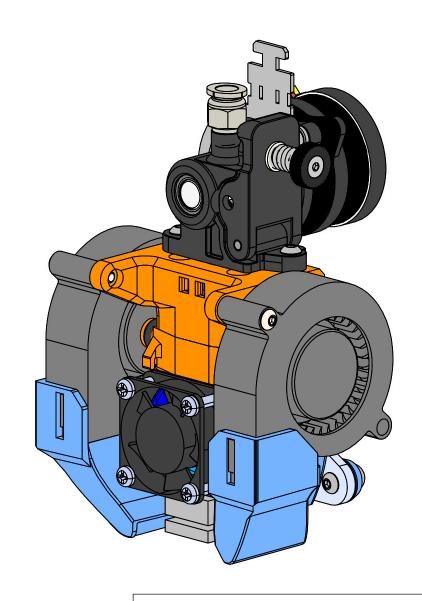
Note that the clearances for fitting these parts together are quite tight.

ITEM NO.	DESCRIPTION	QTY.
1	Orbiter V2.0	1
2	M3 buttonhead screw, 18mm long	2
3	3 Wire Harness Strain Relief	
4	M3 Locknut	2

Orbiter 2.0 Prep			
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	SCALE: 1:1	SHEET 17 OF 18	



ITEM NO.	DESCRIPTION	
9	M3 Buttonhead Screw, 10mm long	2



Orbiter	Extruder	Assembly
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	(i) BY	Created by:	last edited:
8		Joshua Vasquez	3/26/2022
		SCALE: 1:1	SHEET 18 OF 18