

Default	Extruder	Assembly
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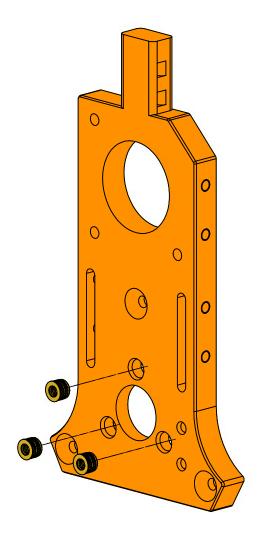
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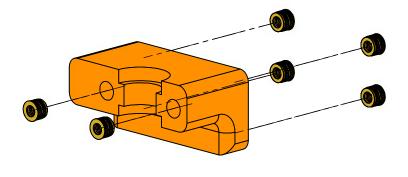
Joshua Vasquez 4/20/2021

SCALE: 1:1

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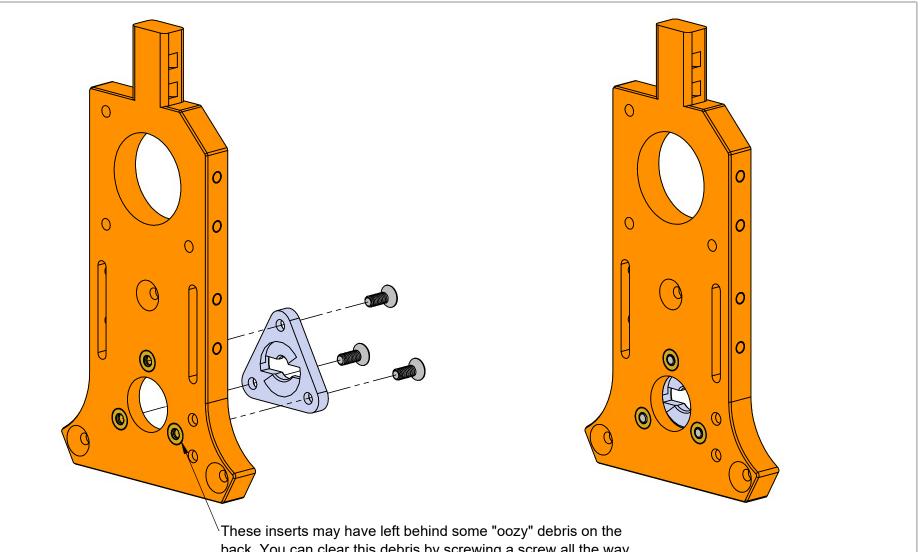
Install the following inserts from the directions shown using the *plate press technique*.





ITEM NO.	DESCRIPTION	QTY.
2	M3 Tapered Heat Set Insert	9
3	Groovemount Base	1
4	Base Tool Plate	1

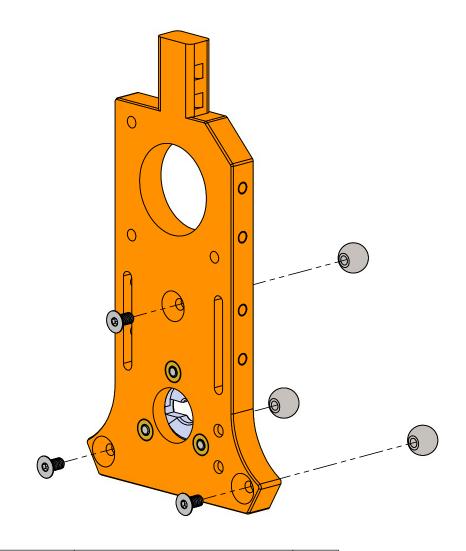
Heat Set Insert Installation				
Created by: last edited:				
Joshua Vasquez 4/20/2021				
		SCALE: 1:1	SHEET 2 OF 14	



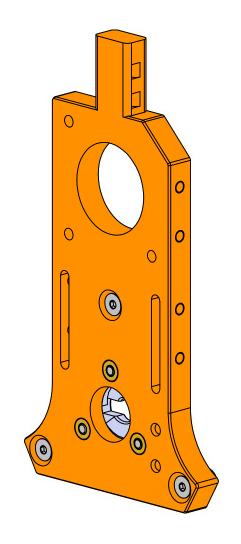
back. You can clear this debris by screwing a screw all the way from the other end and then removing it.

ITEM NO.	DESCRIPTION	QTY.
1	Wedge Plate	1
2	Base Tool Plate with Inserts	1
3	M3 Flathead Screw, 8mm long	3

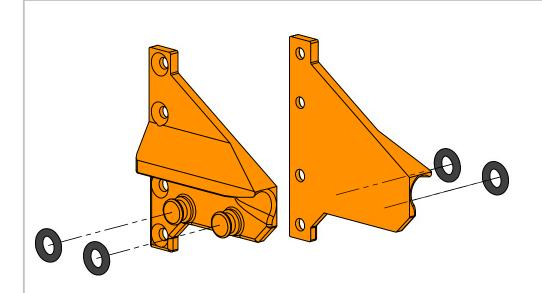
Wedge Plate Installation			
Created by: last edited: Joshua Vasquez 4/20/2021			
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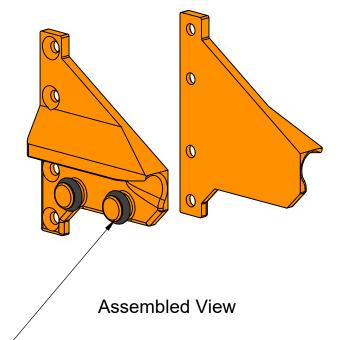
ITEM NO.	DESCRIPTION	QTY.
4	M3 8mm Threaded Tool Balls	3
5	M3 Flathead Screw, 6mm long	3



Tool Ball Installation				
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SCALE: 1:1 SHEET 4 OF 14				



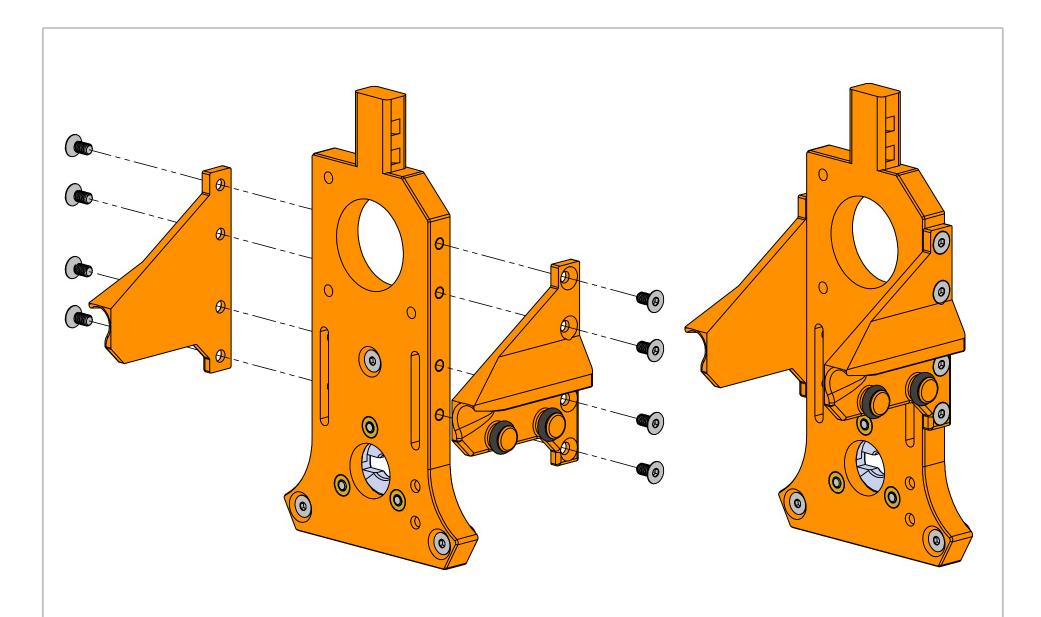
Exploded View



Recommended: apply a small amount of lubricant like white lithium grease to each o-ring.

ITEM NO.	DESCRIPTION	QTY.
1	Left Tool Wing	1
2	Right Tool Wing	1
3	5x9x2 O Ring	4

Parking Wing Assembly			
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		SCALE: 1:1	SHEET 5 OF 14



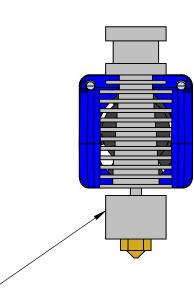
ITEM NO.	DESCRIPTION	QTY.
1		1
2		1
3	Base Tool Plate Assembly	1
4	M3 Flathead Screw, 6mm long	8

Tool Plate Assembly			
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ВУ	BY	Joshua Vasquez	4/20/2021
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Follow the V6 or Volcano Hotend Assembly Instructions from E3D to assemble the hotend shown below.

V6 Instructions

Volcano Instructions



Temporarily wire your extruder to your machine, perform a heater calibration, and fully hot-tighten the extruder. Then disconnect the wires.

heater calibration instructions

hot-tightening instructions are at the end of the Extruder Assembly instructions.

Hotend Cold Assembly				
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The PTFE Tube length is different depending on what hotend you will use (V6 or Volcano).

For the V6, cut 62mm of PTFE Tube.

62.0

53.0

For the Volcano, cut 53mm of PTFE Tube.

In both cases, ensure that the resulting cut is clean on both ends.

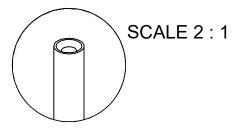




Ok!

Not Ok!

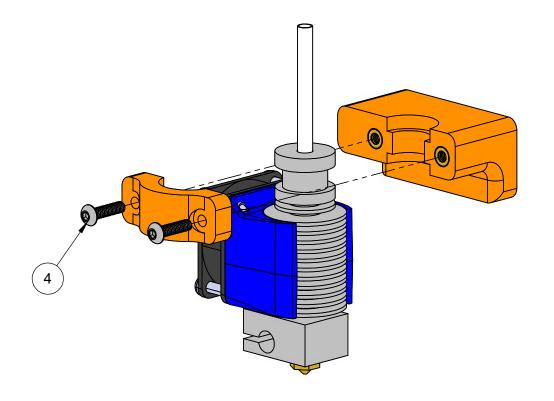
With a box cutter blade, "shape" one end of the PTFE tube into a slight cone like shown below.



Ensure that the entire PTFE tube is **free of debris** after this step, as even a single small flake can lead to nightmarish clogging scenarios.

When finished push the tube all the way into the hotend until it stops. The "shaped" end should stick out.

PTFE Tube Prep				
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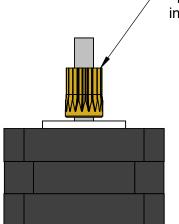


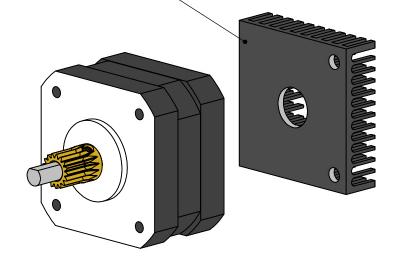
ITEM NO.	DESCRIPTION	
1	Hotend Assembly with PTFE Tube	1
2	Groovemount Base with Inserts	1
3	Groovemount Clip	1
4	M3 Buttonhead Screw, 12mm long	2

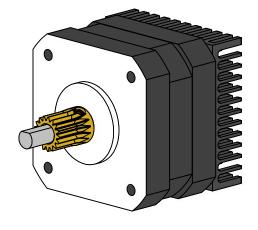
Hotend Base Assembly			
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Attach with double-sticky heat-transfer tape.

Note that this gear is installed opposite the suggested orientation in the Bondtech instructions.

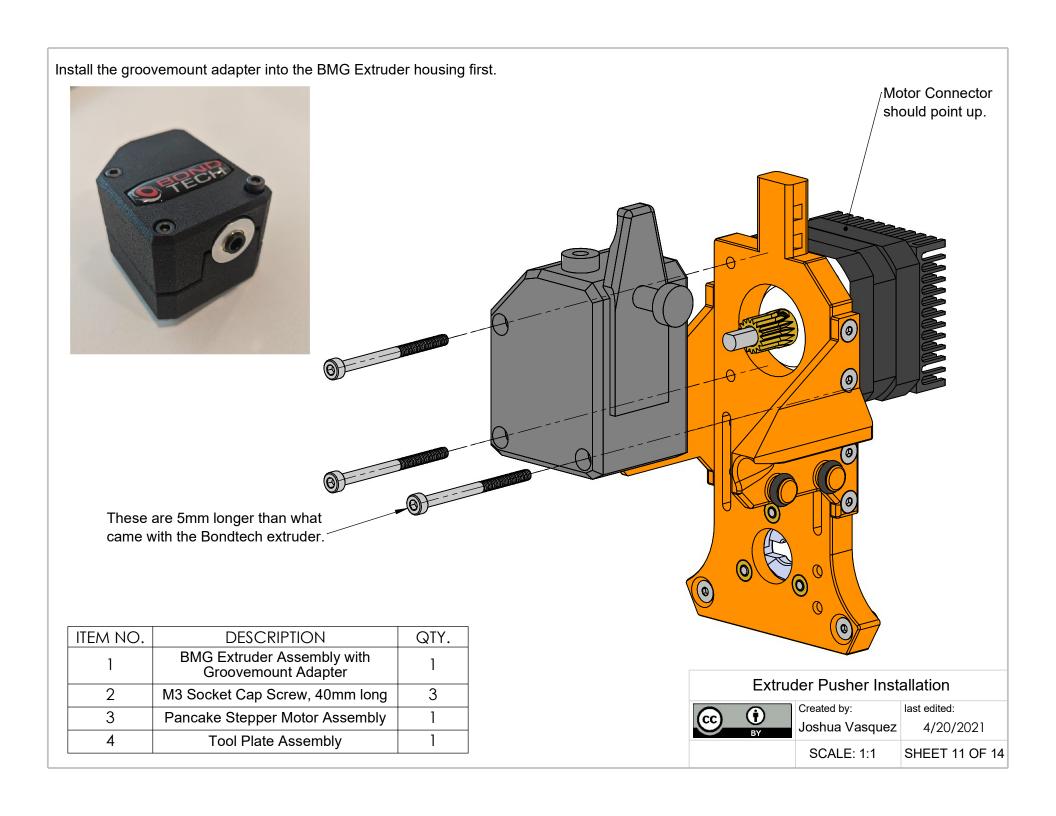


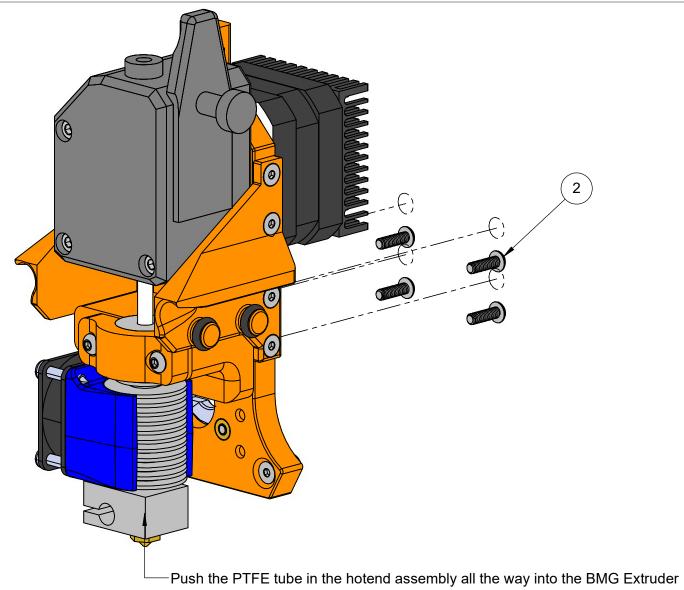




ITEM NO.	DESCRIPTION	QTY.
1	Bondtech Motor Gear with Included Setscrew	1
2	Nema 17 Stepper Motor	1
3	Nema 17 Motor Heatsink	1
4	Double-Sided Heat Transfer Tape 40x40mm	1

Pancake Motor Assembly			
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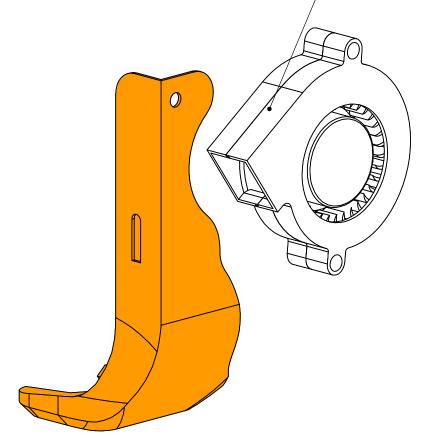


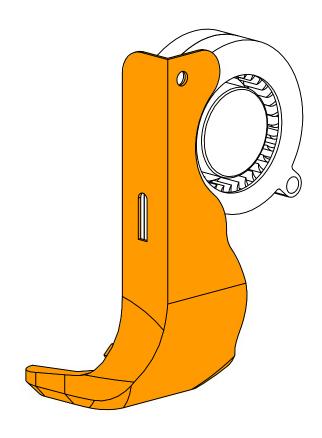
until it hard stops. Then secure the resulting position with the four screws.

ITEM NO.	DESCRIPTION	QTY.
2	M3 Buttonhead Screw, 10mm long	4

Hotend Installation				
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/Hit this section with a teeny bit of hot glue or superglue for a secure fit during normal use.





ITEM NO.	DESCRIPTION	QTY.
1	Cooling Nozzle 2a by @edthesped	1
2	5015 Blower Fan	1

	Fan and Shroud Assembly			
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