

SPAX wood screw dimensions:

**Universal screw, 2,5 x 10 mm, 100 pieces, full thread, flat countersunk head, cross recess Z1, S point, YELLOW – 4081020250102**

2,5 x 10 mm

100 pk.

- Application: Universal usage
- Quick and safe fastening with reduced driving in torque (more screwed connections per battery charge)
- Multifunctional applications indoors

Technical details

SKU	4081020250102
SPAX logo	4081020250102
Thread diameter Ø1	2,5 mm
Length total Ls	10 mm
Head diameter Øk	5,1 mm
Head thread length Lp1	8 mm
BPT size Z	1

QTY	Name	Comment
Bearings		
4	6704ZZ	2x Fan, 1x IPC, 1x HPC
4	MR126ZZ	Fan planetary gear
1	6805ZZ	1x Fan
2	6700ZZ	1x IPC, 1x Turbine
4	MR85ZZ	Turbine planetary gear
1	6807ZZ	Turbine Motor
1	6702ZZ	Combustion
1	6705ZZ	Turbine Inlet
Screws		
Glue can be used in place of all screws		
70	M1x6mm	
34	M1x4mm	
31	2,5x10mm	SPAX or similar
2	M3x4	For fixing the motor
1	M6x15	DIN 7985
4	M4x55	DIN965
Nuts		
53	M1	
4	M4	
Rods		
Prints available		
1	Ø10x247mm	Aluminium, wall 1mm
1	Ø10x96mm	Aluminium, wall 1mm
1	Ø15x191mm	Aluminium, wall 1mm
Various		
1	Motor Ø25mm	12V, 100RPM
	Epoxy glue	(or your favorite glue for 3D prints)

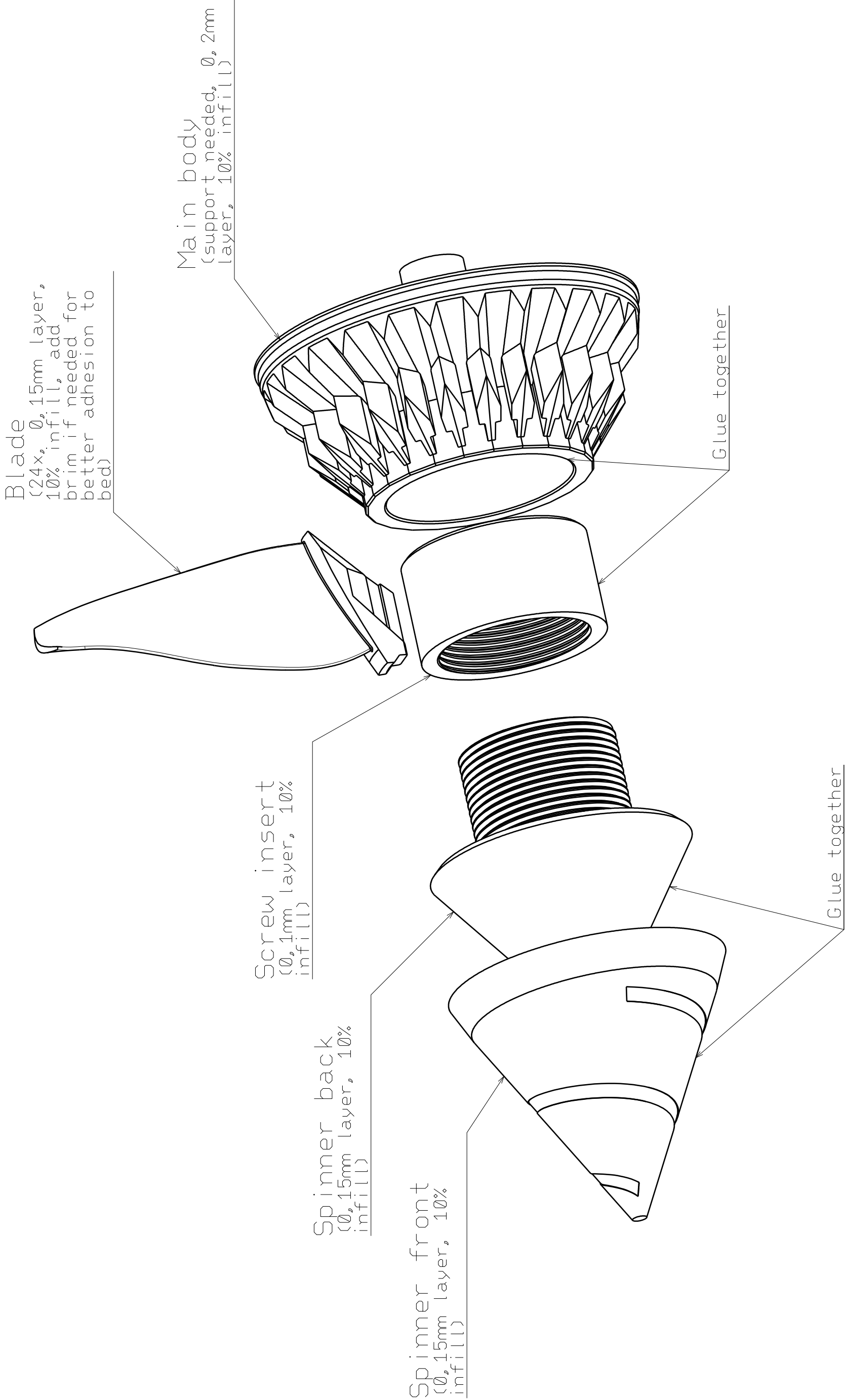
Highly recommended

Please first read through all steps before start of assembly.

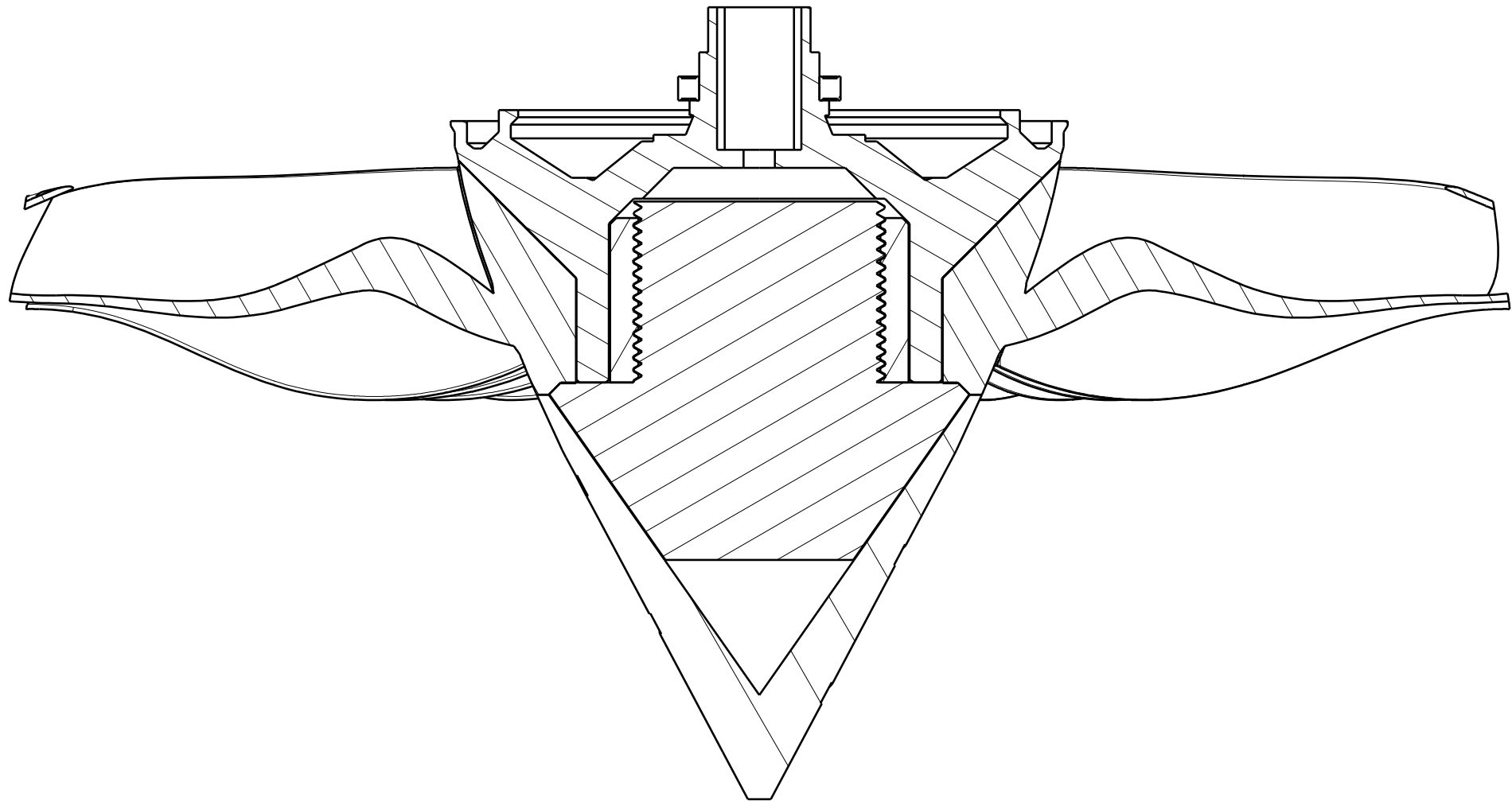
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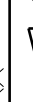


STEP 1: Fan assembly

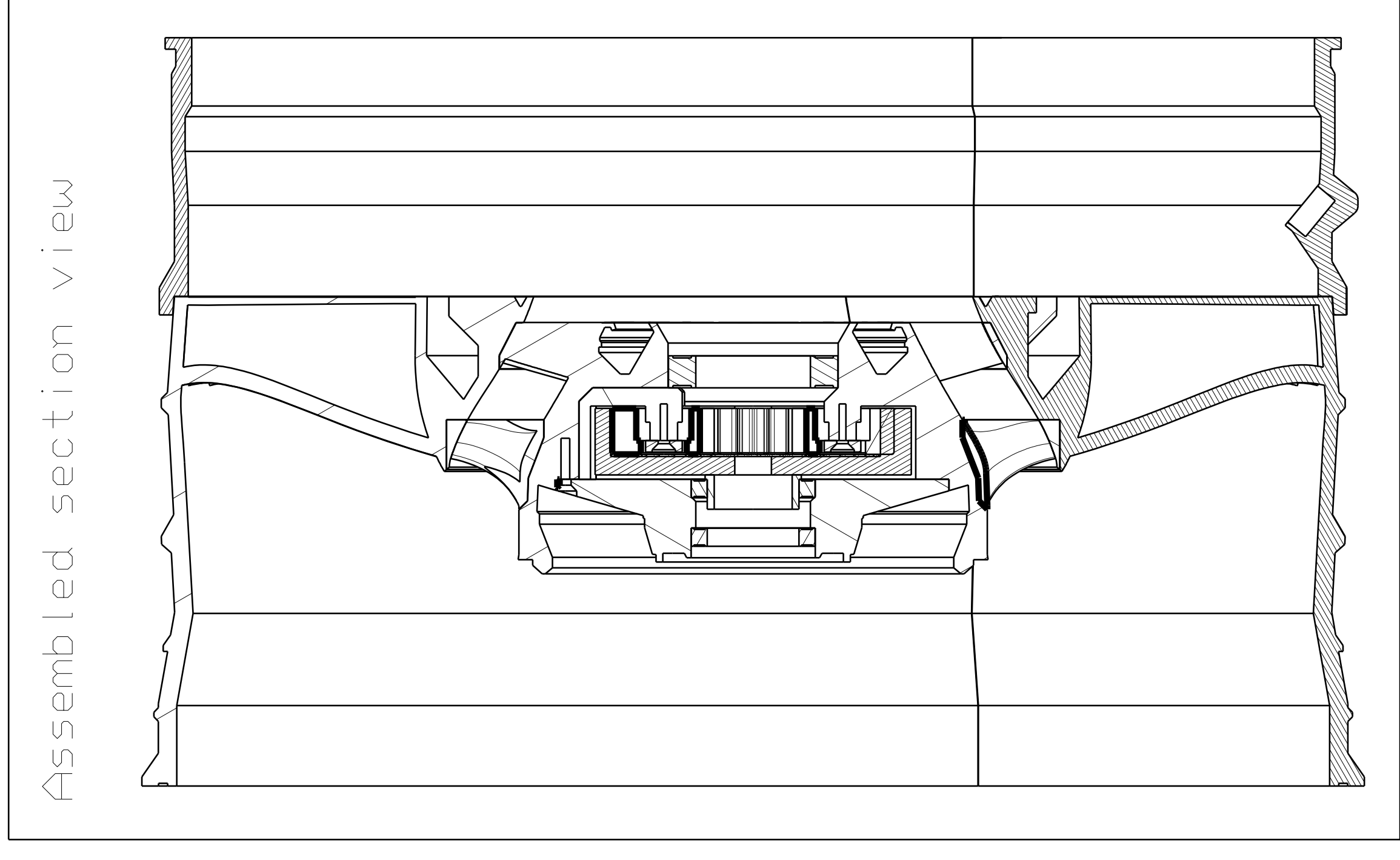
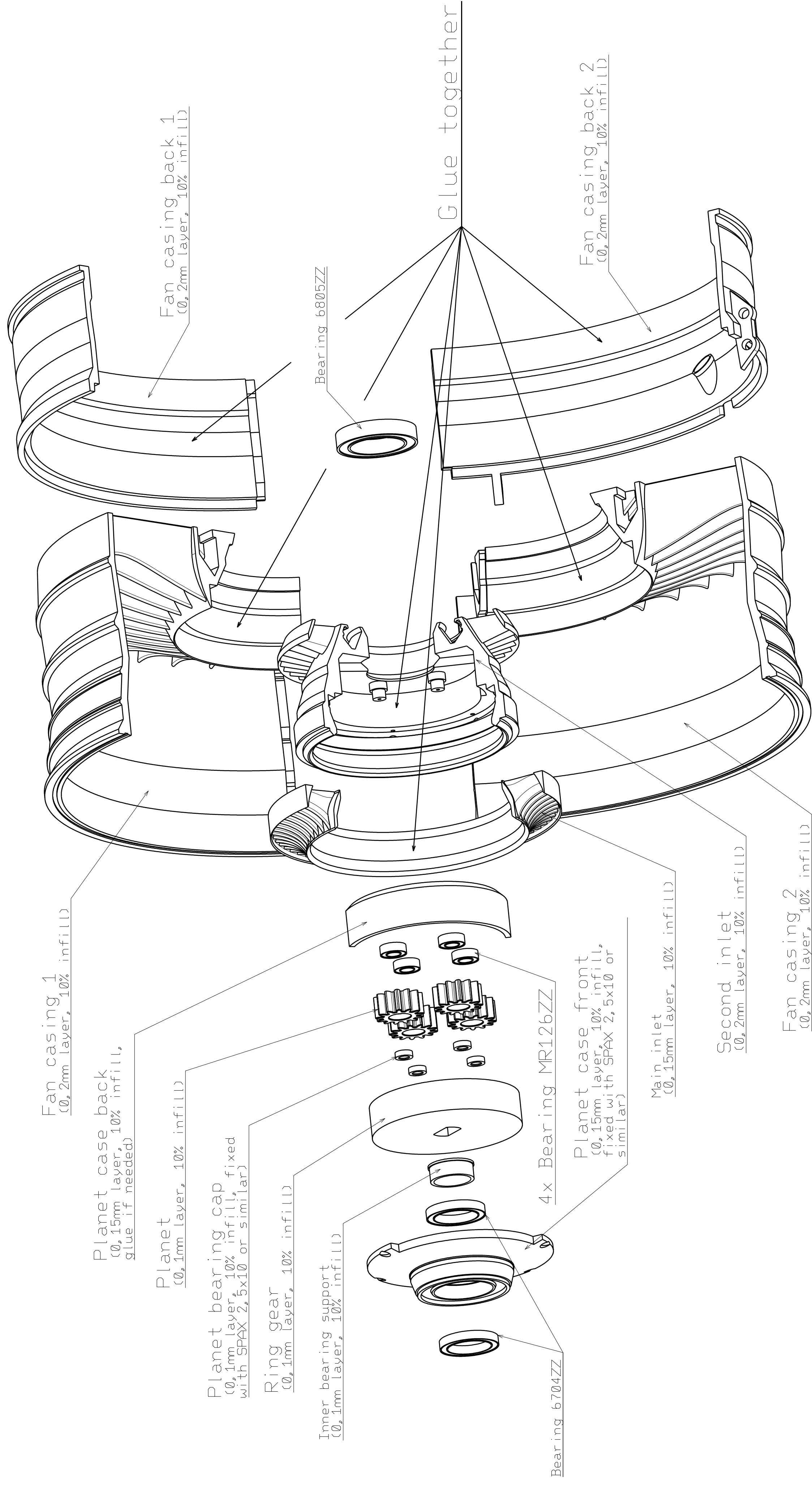


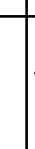
Assembled section view



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# 2. Front car assembly



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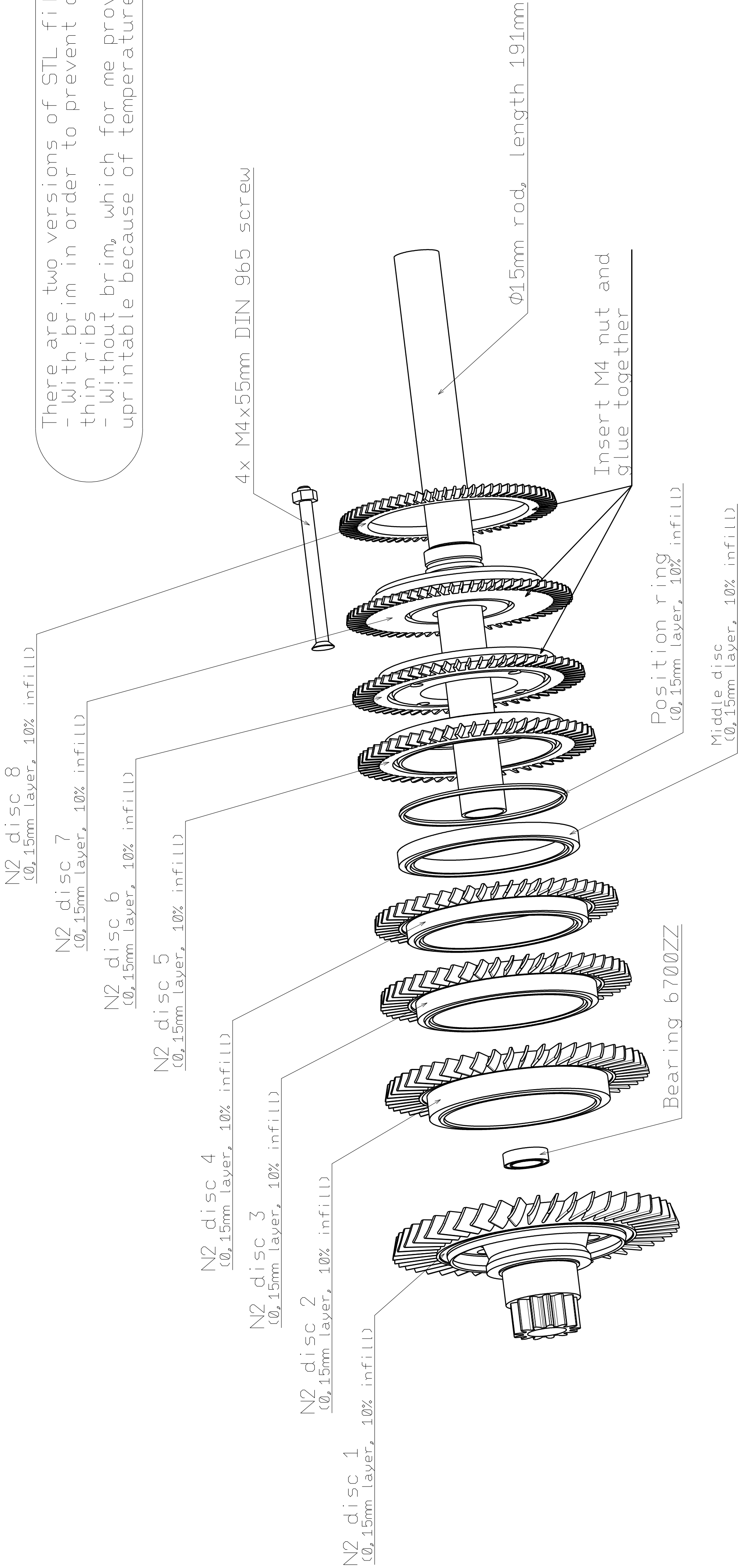
4	B	C	D
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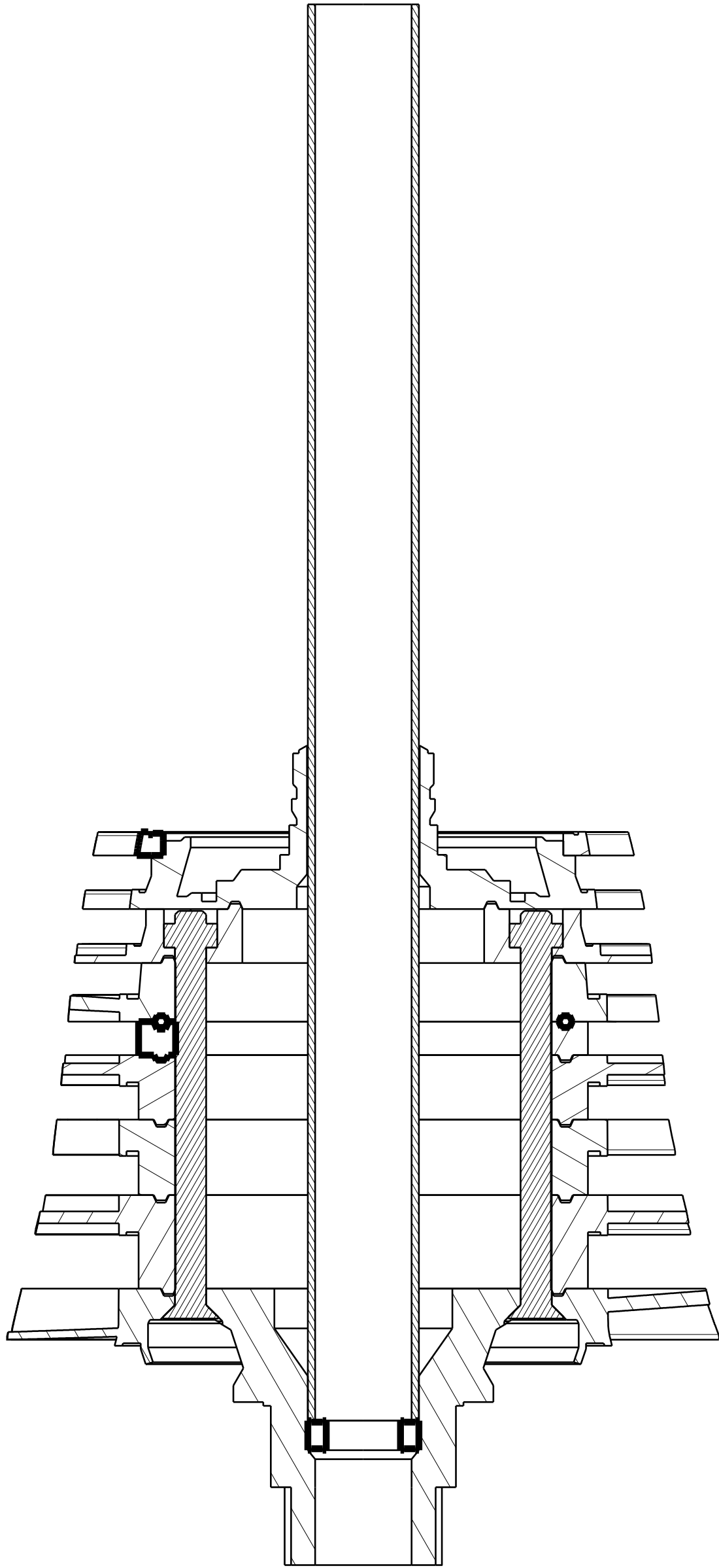
STEP 3: N2 compressor assembly


There are two versions of STL files for discs:

- With brim in order to prevent deformation of thin ribs
- Without brim, which for me proved to be uprintable because of temperature warping

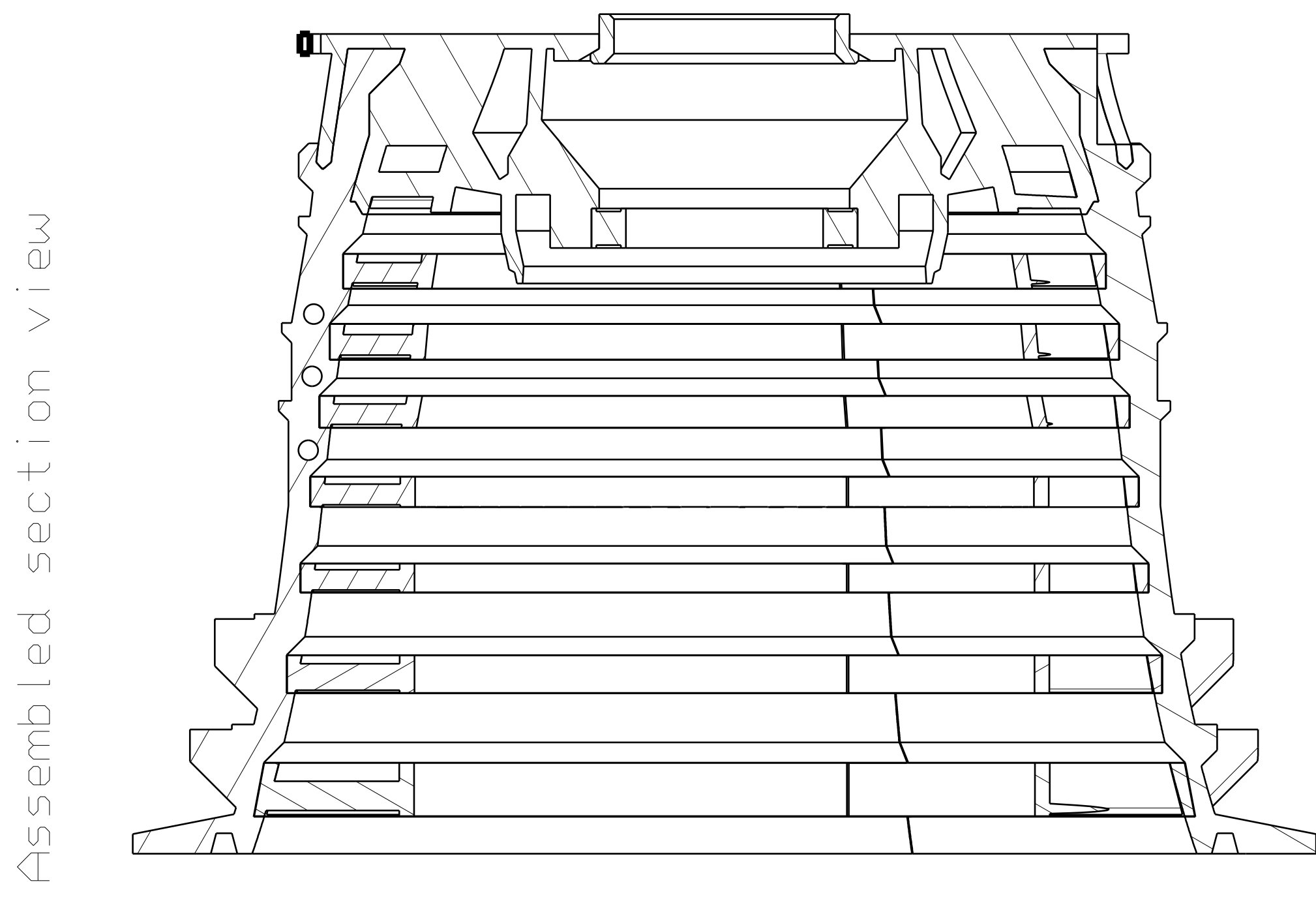
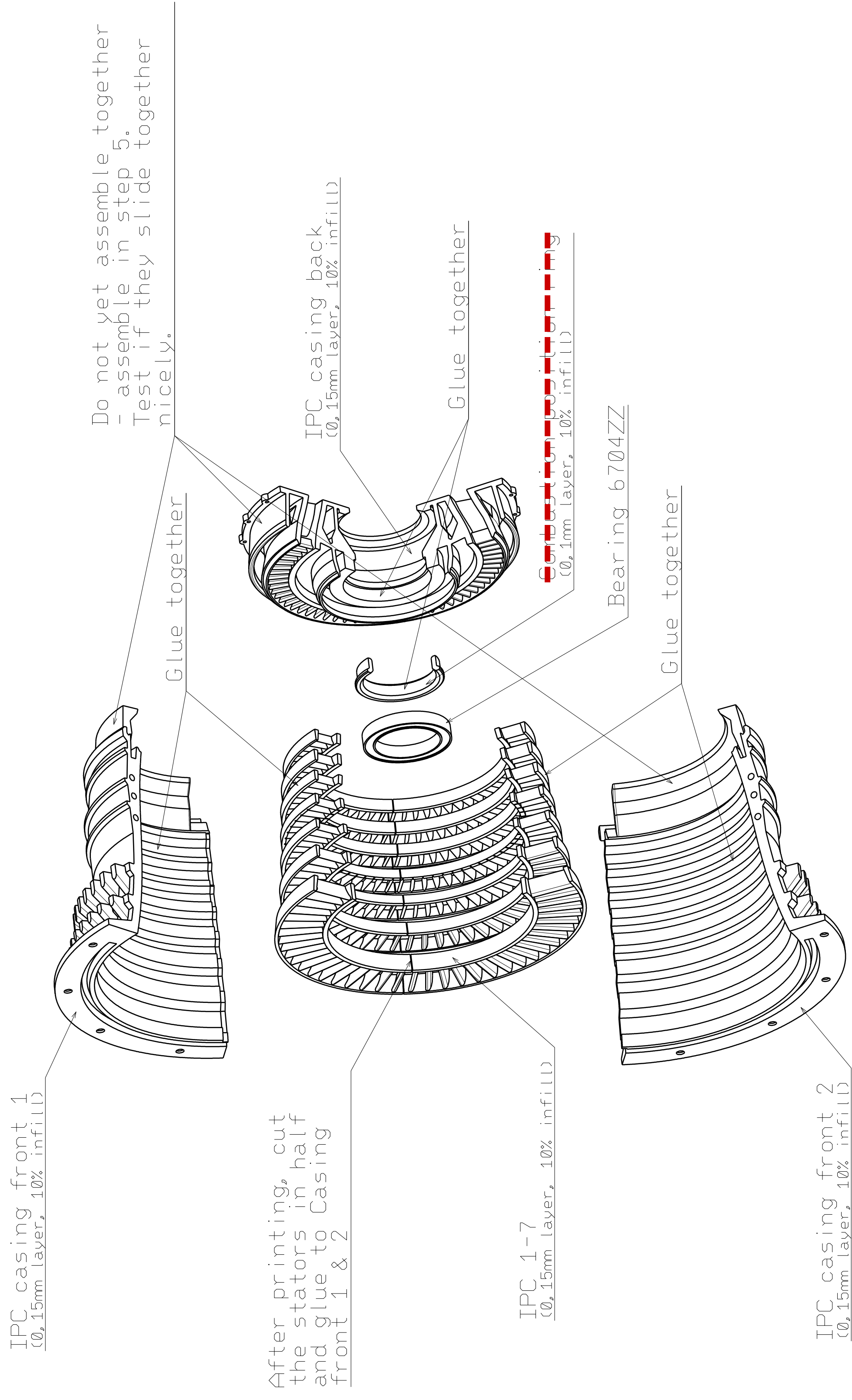


Assembled section view



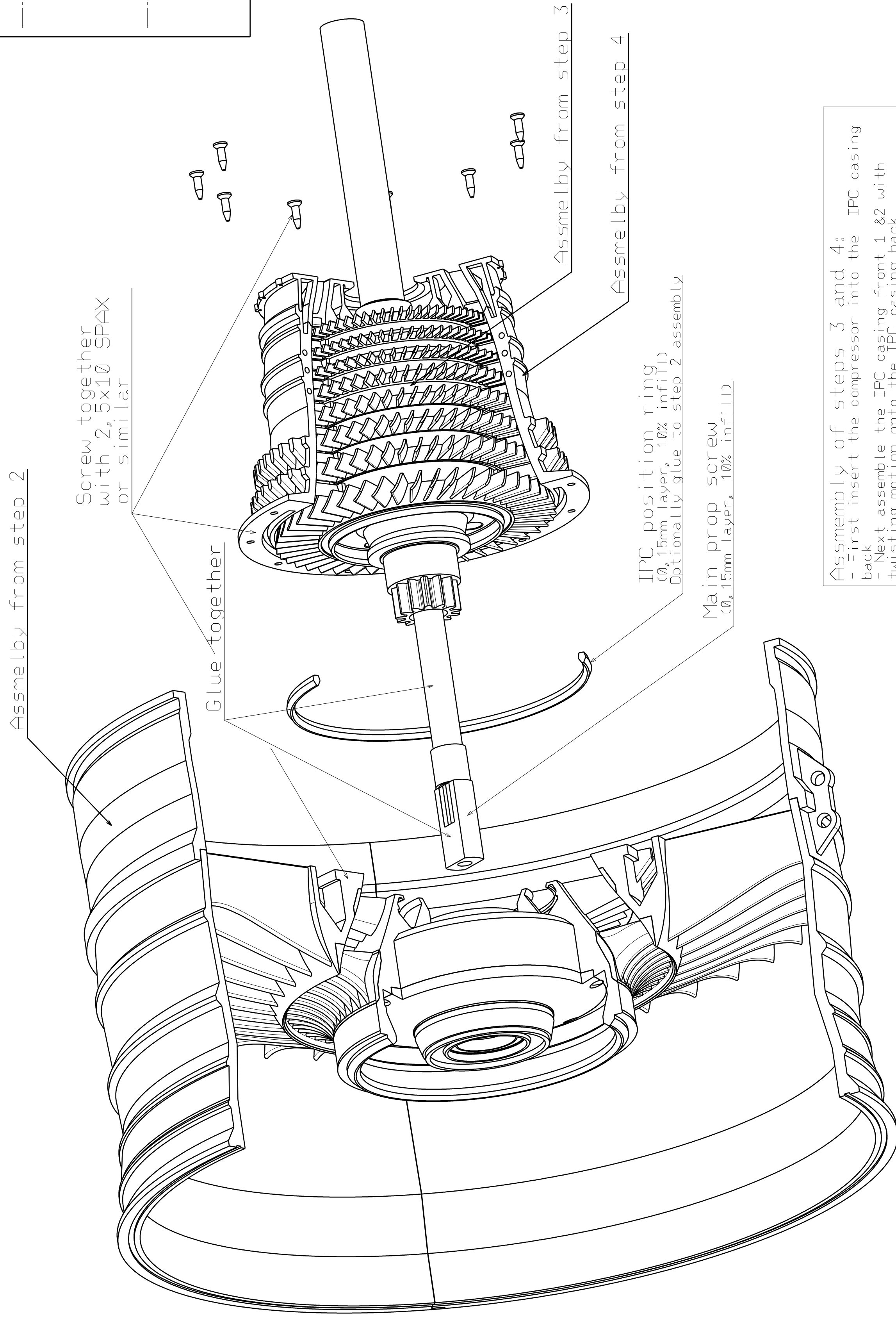
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## STEP 4: NZ compressor casing assembly

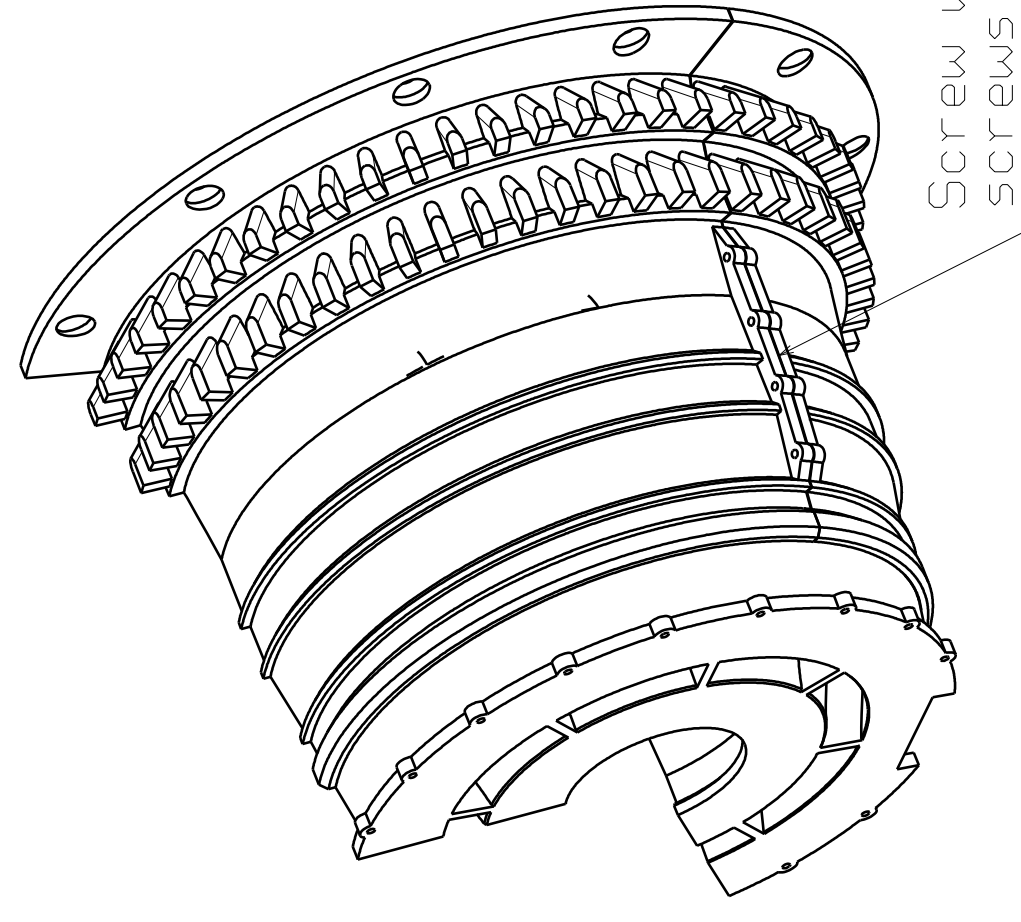
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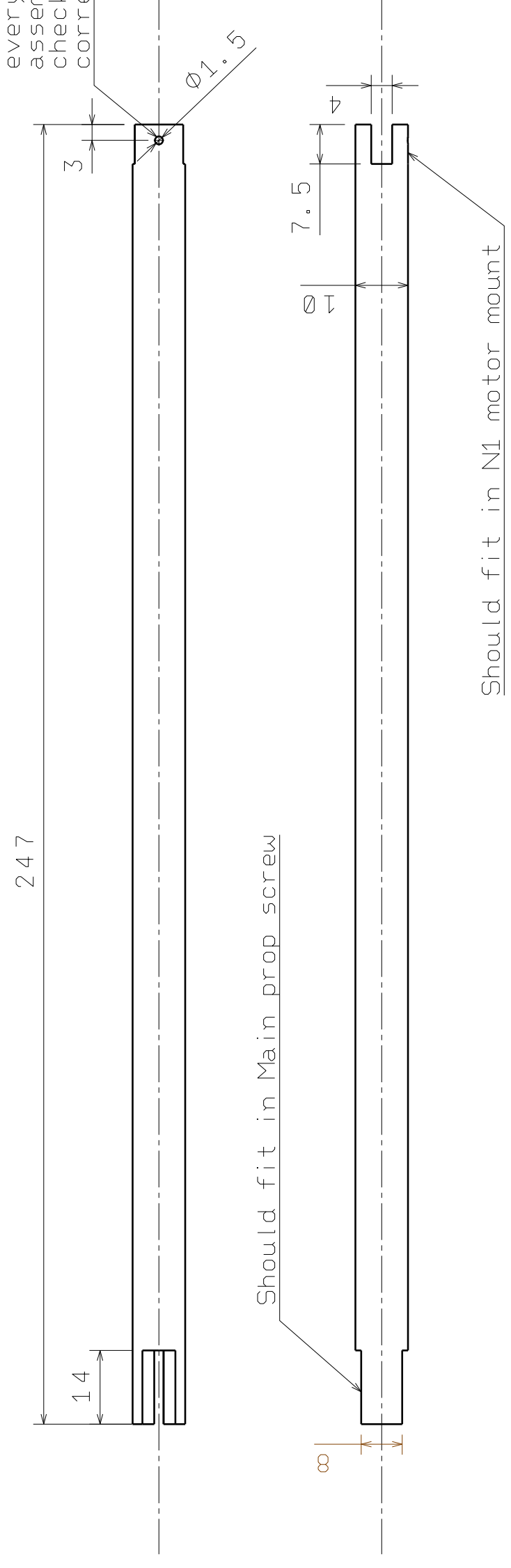
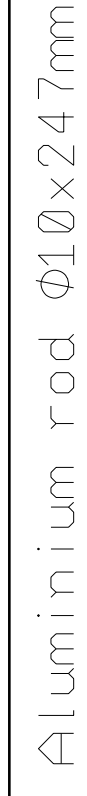
# FEET: Font Assembly



Assembly of steps 3 and 4:  
 - First insert the compressor into the IPC casing back  
 - Next assemble the IPC casing front 1 & 2 with twisting motion onto the IPC casing back  
 - Last screw the IPC casing front 1 & 2 together with M1 screws and nuts

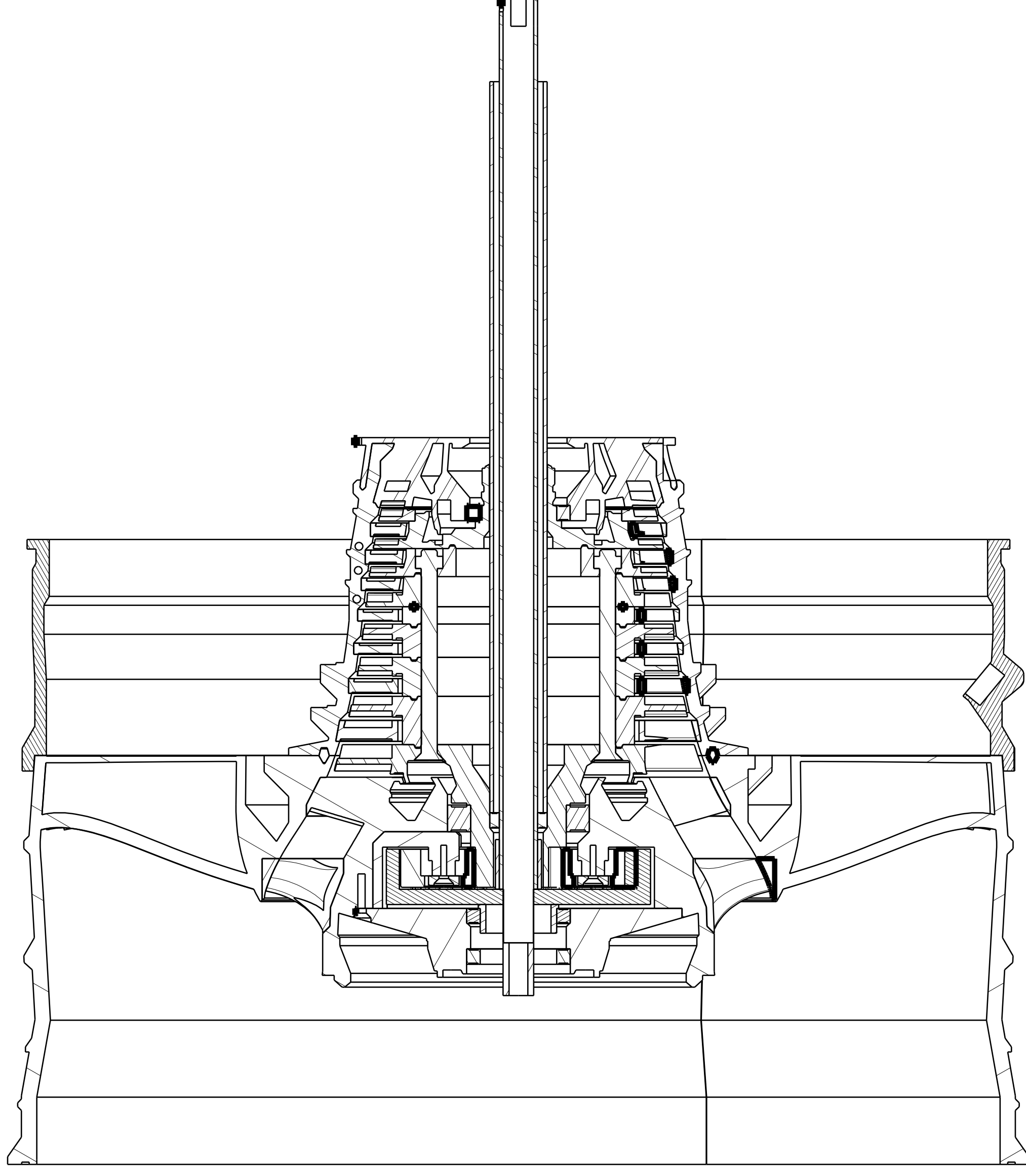



Screw with 4x M1x6mm screws and nuts



Should fit in N1 motor mount

### Assembled section view



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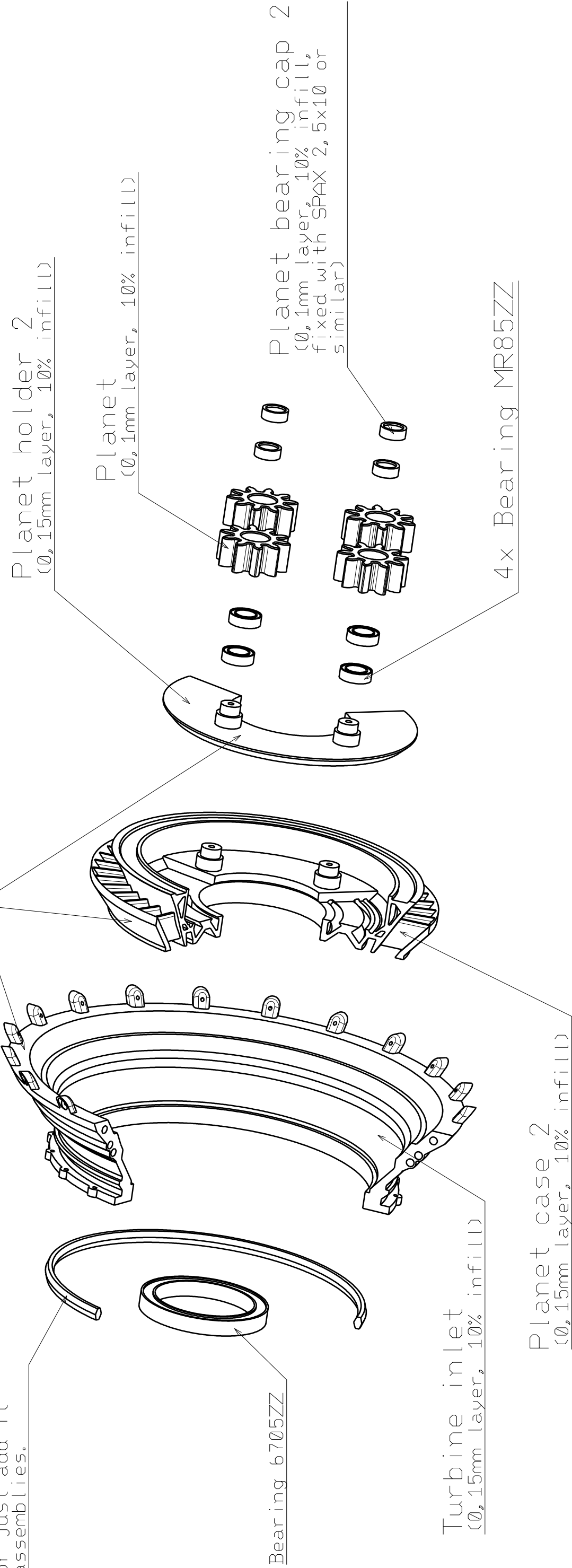




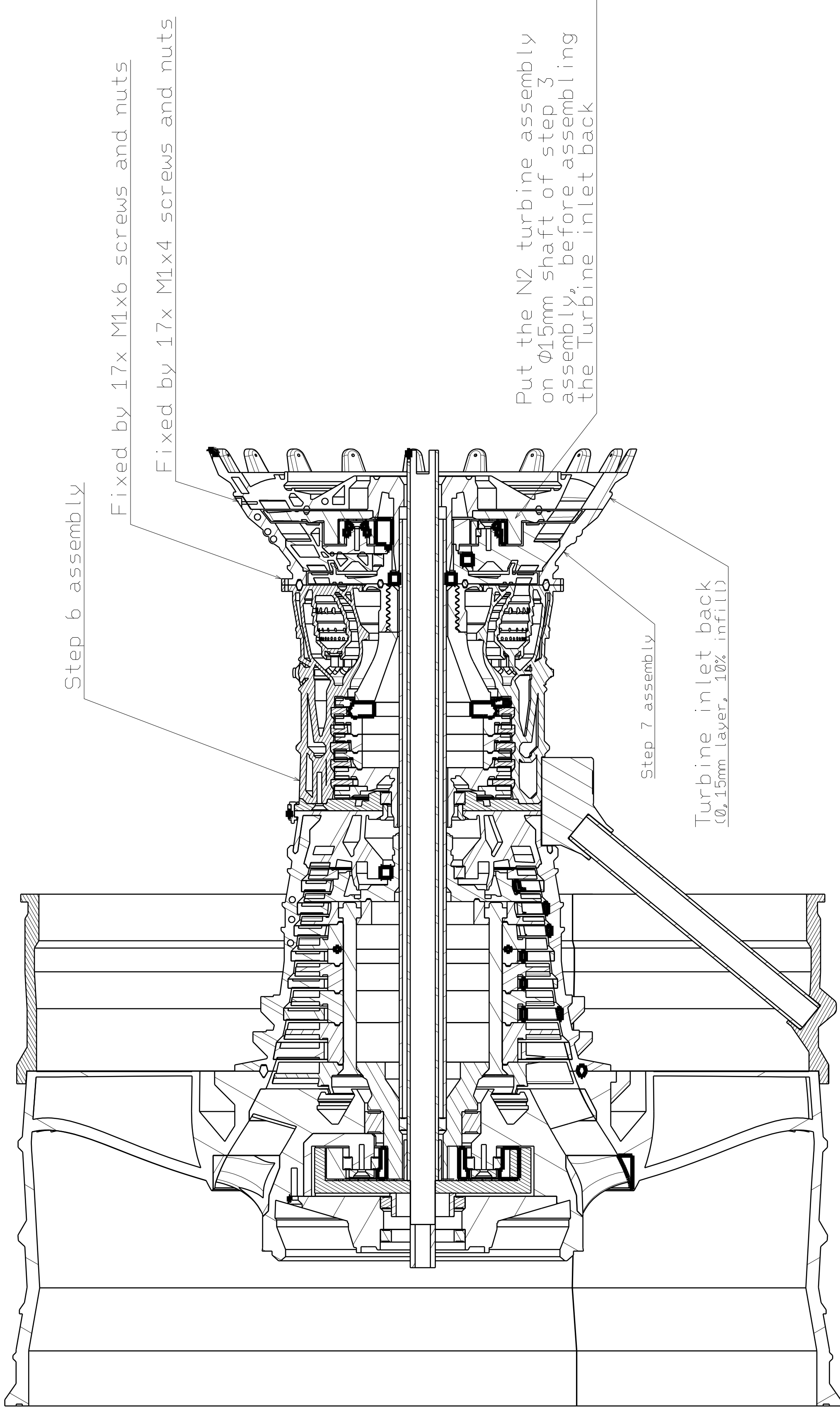
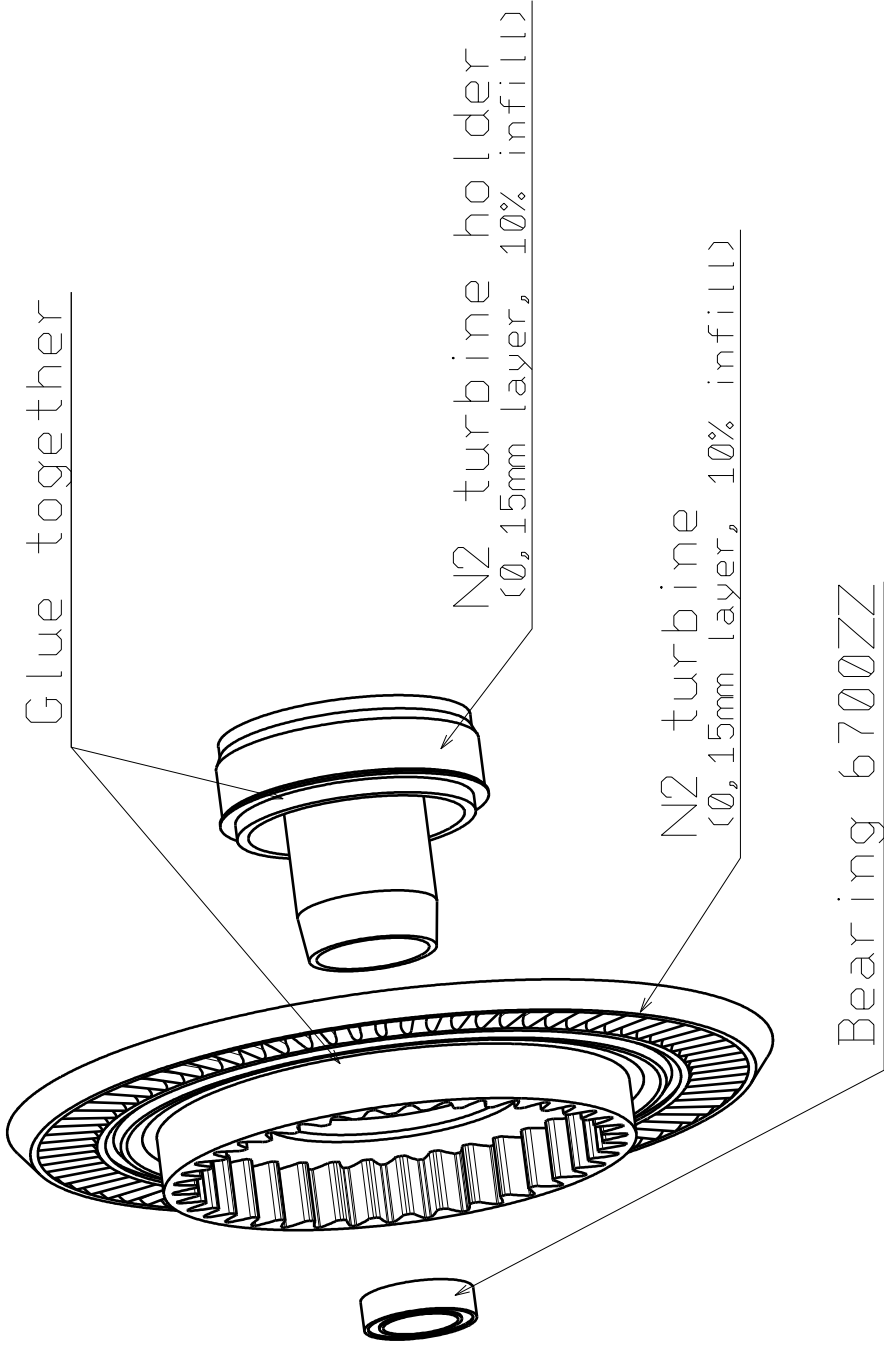
STEP 7: Turbine inlet assembly

Combustion position ring  
(ø,15mm layer, 10% infill)  
Optionally glue it or just add it  
between step 6 & 7 assemblies.

Glue together



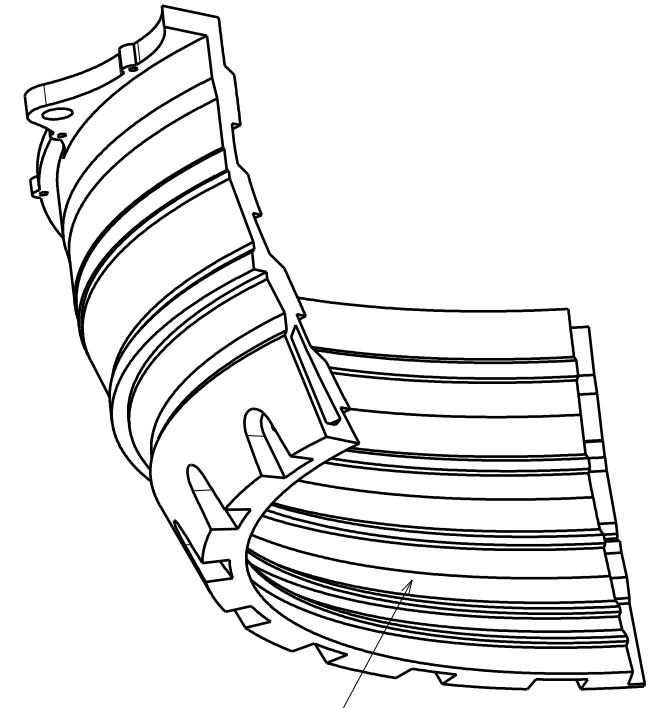
N2 turbine assembly



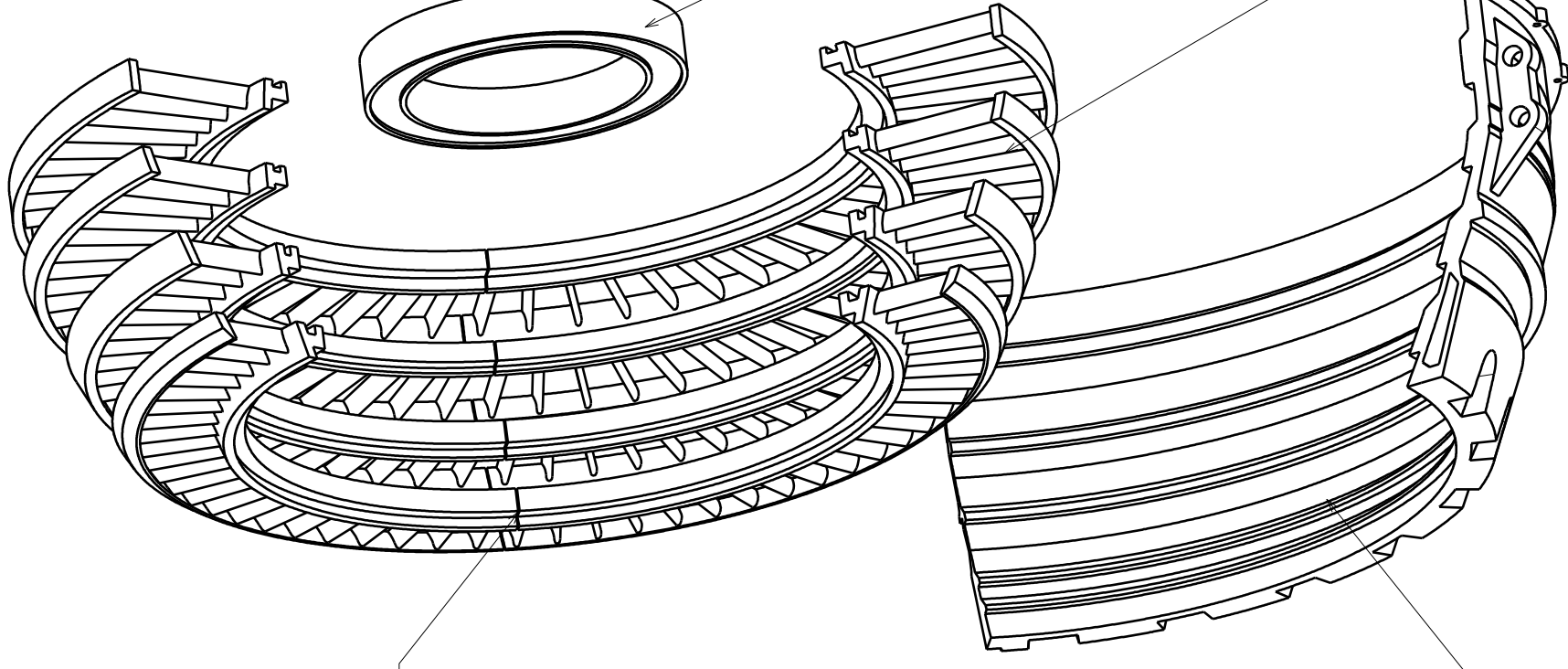
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SIZE: A1				E	-
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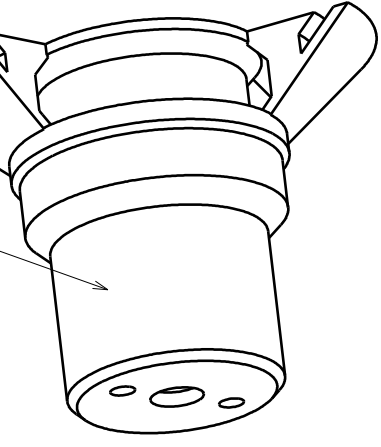
## STEP 8: Turbine casing and nozzle assembly



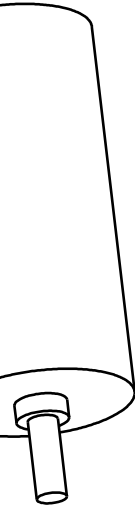
Turbine casing 1  
(0, 15mm layer, 10% infill)



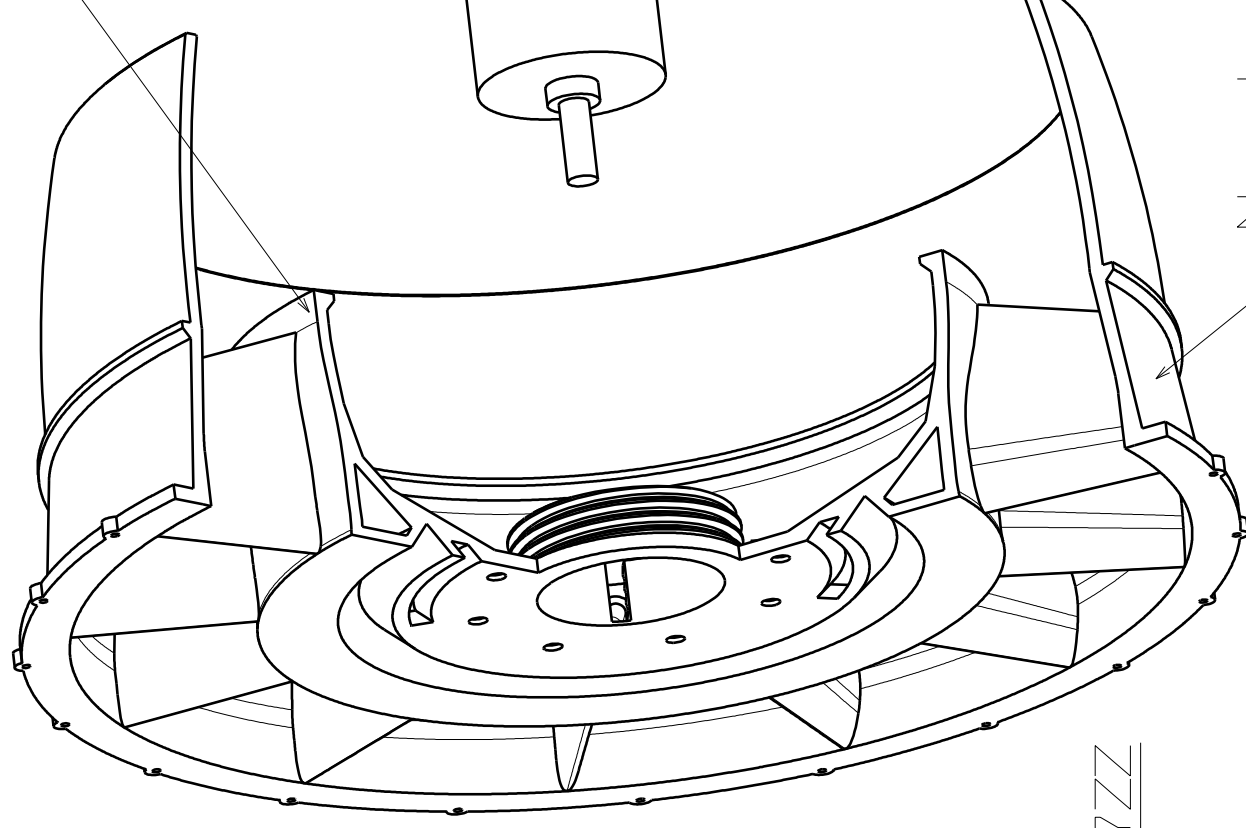
After printing, cut the stators in half and glue to Turbine casing 1 & 2



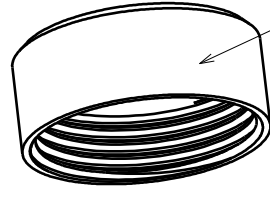
Bearing 6807ZZ



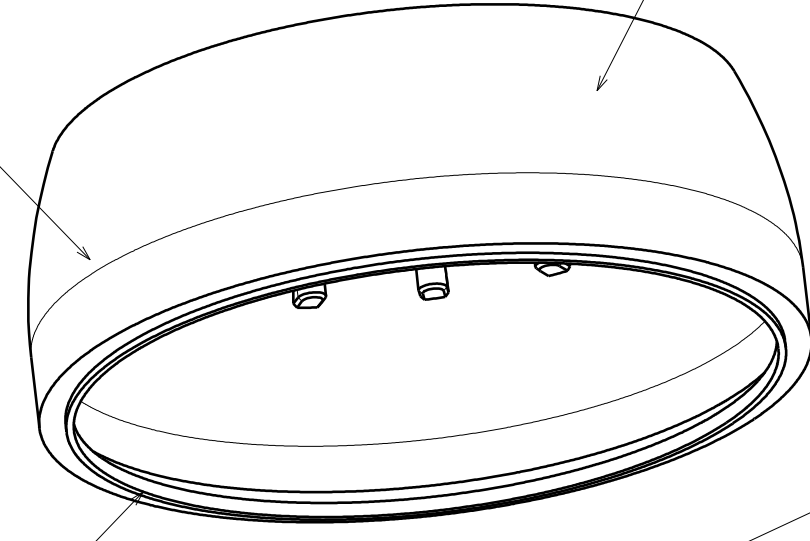
Turbine stator 1-4  
(0,15mm layer, 10% infill)



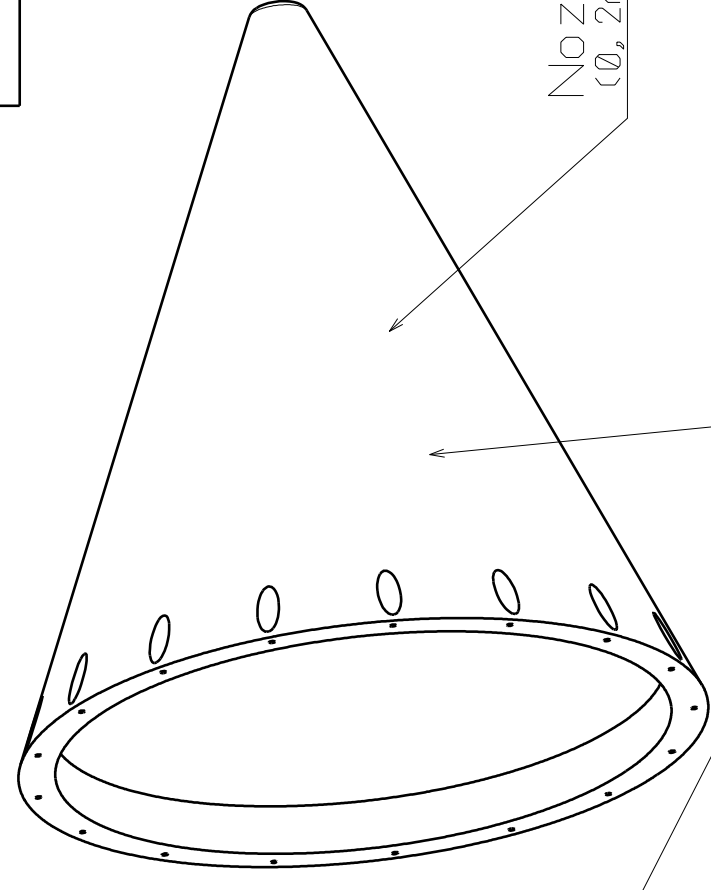
Nozzle



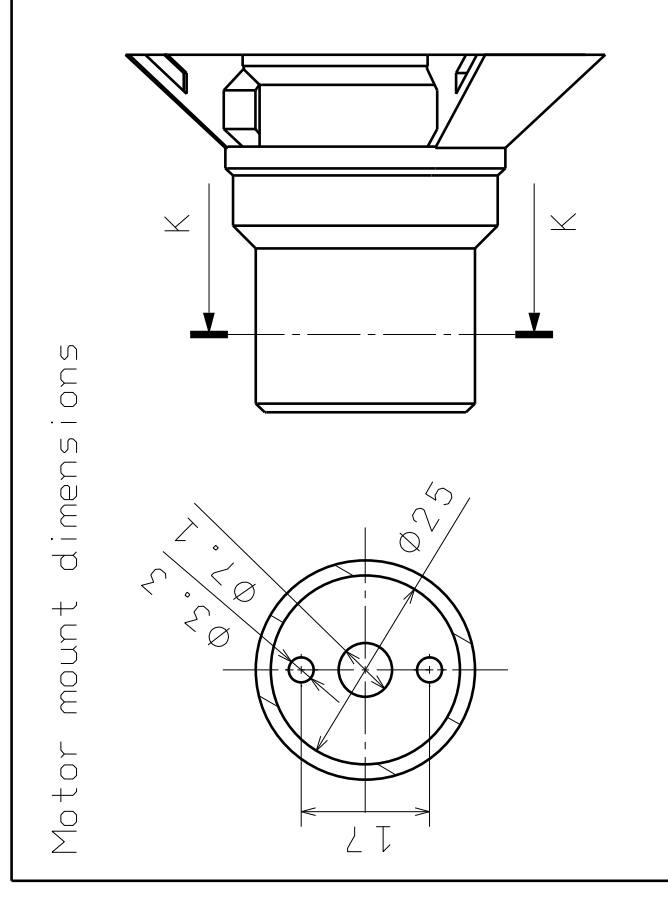
Motor cap  
(0,1mm layer, 10% infill)



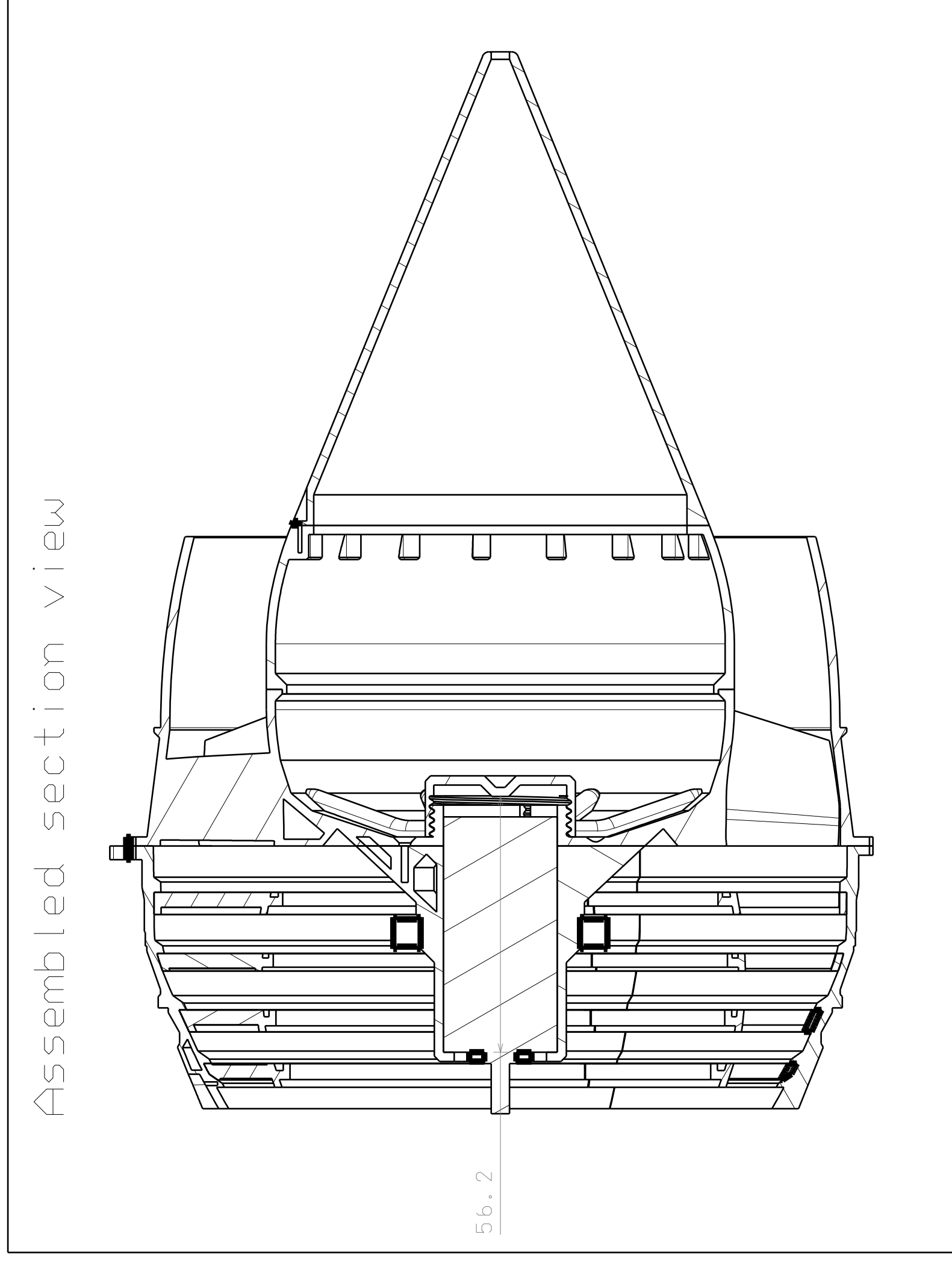
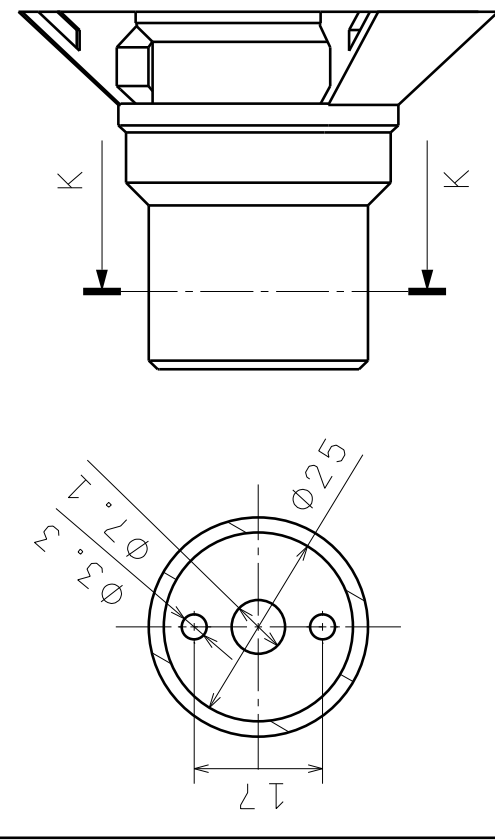
Motor cap

Nozzle cone  
(0,2mm layer, 10% infill)

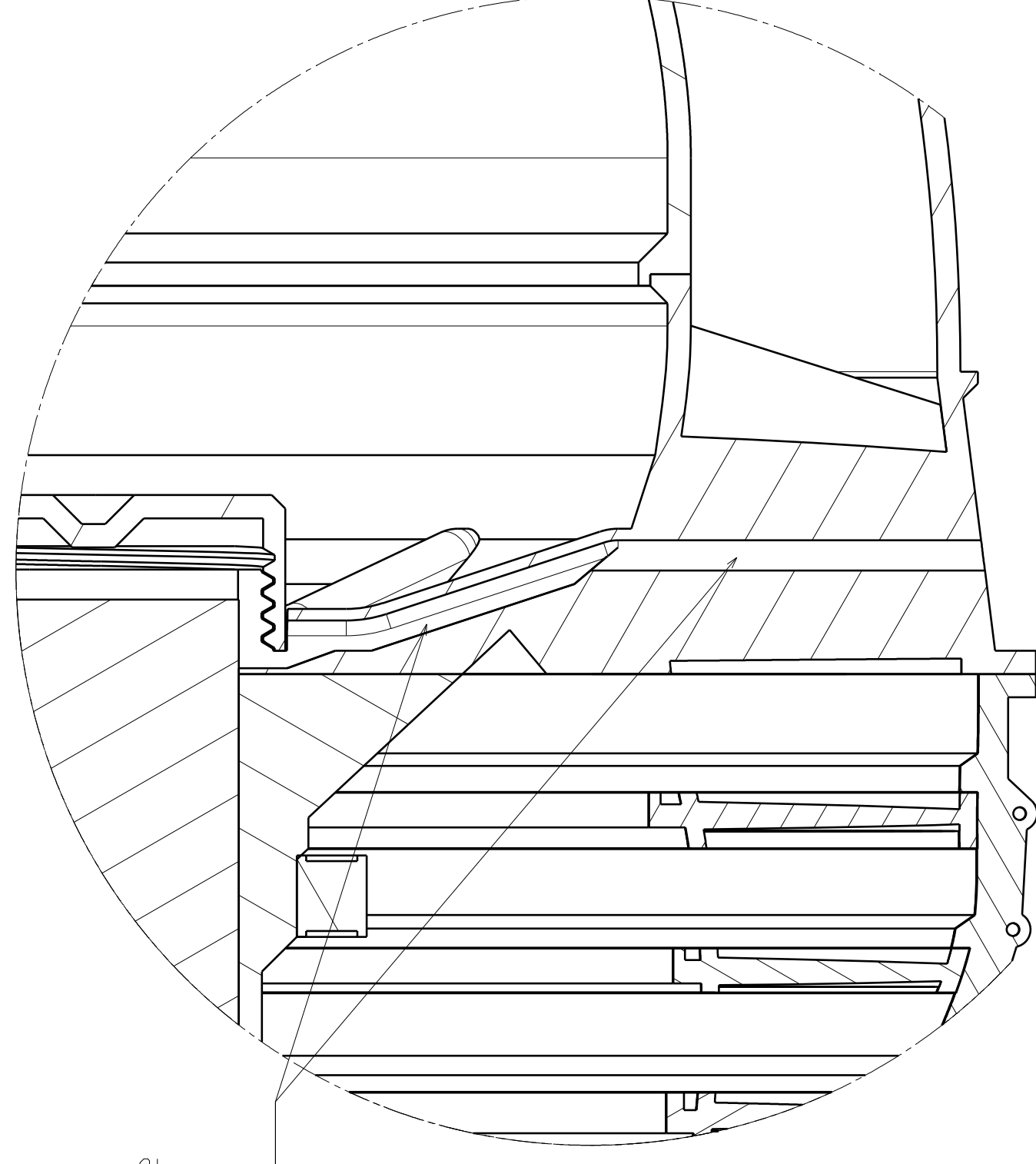
Screw together with  
17x M1x6mm screws



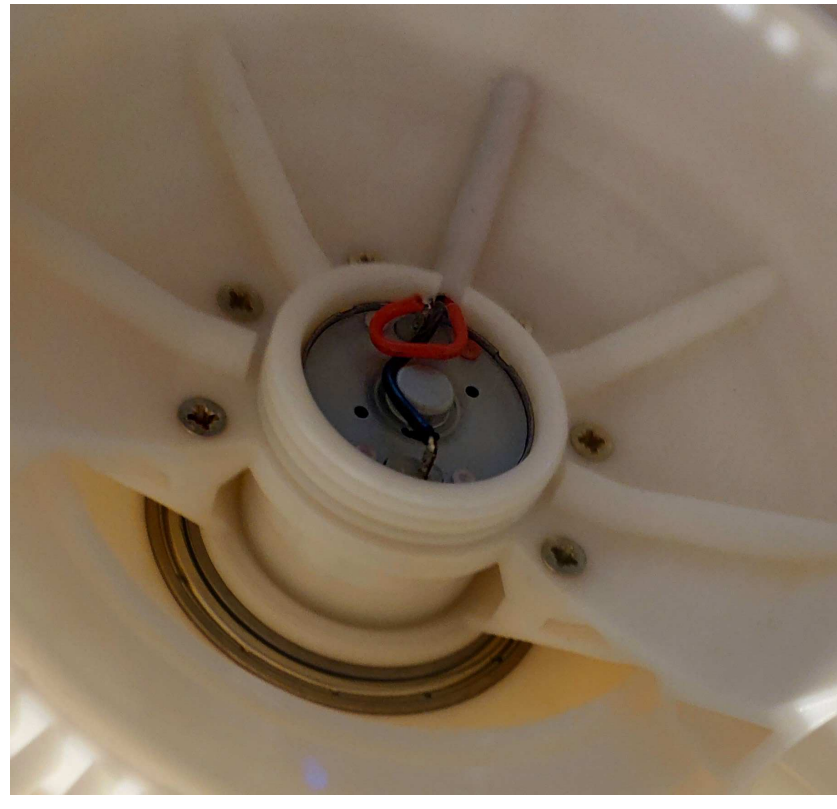
Motor mount dimensions



### Assembled section view



Before inserting the motor guide wire through the channel in the Nozzle. If already assembled use the wire with connector from the stand. For wire dimensions see Stand drawing.



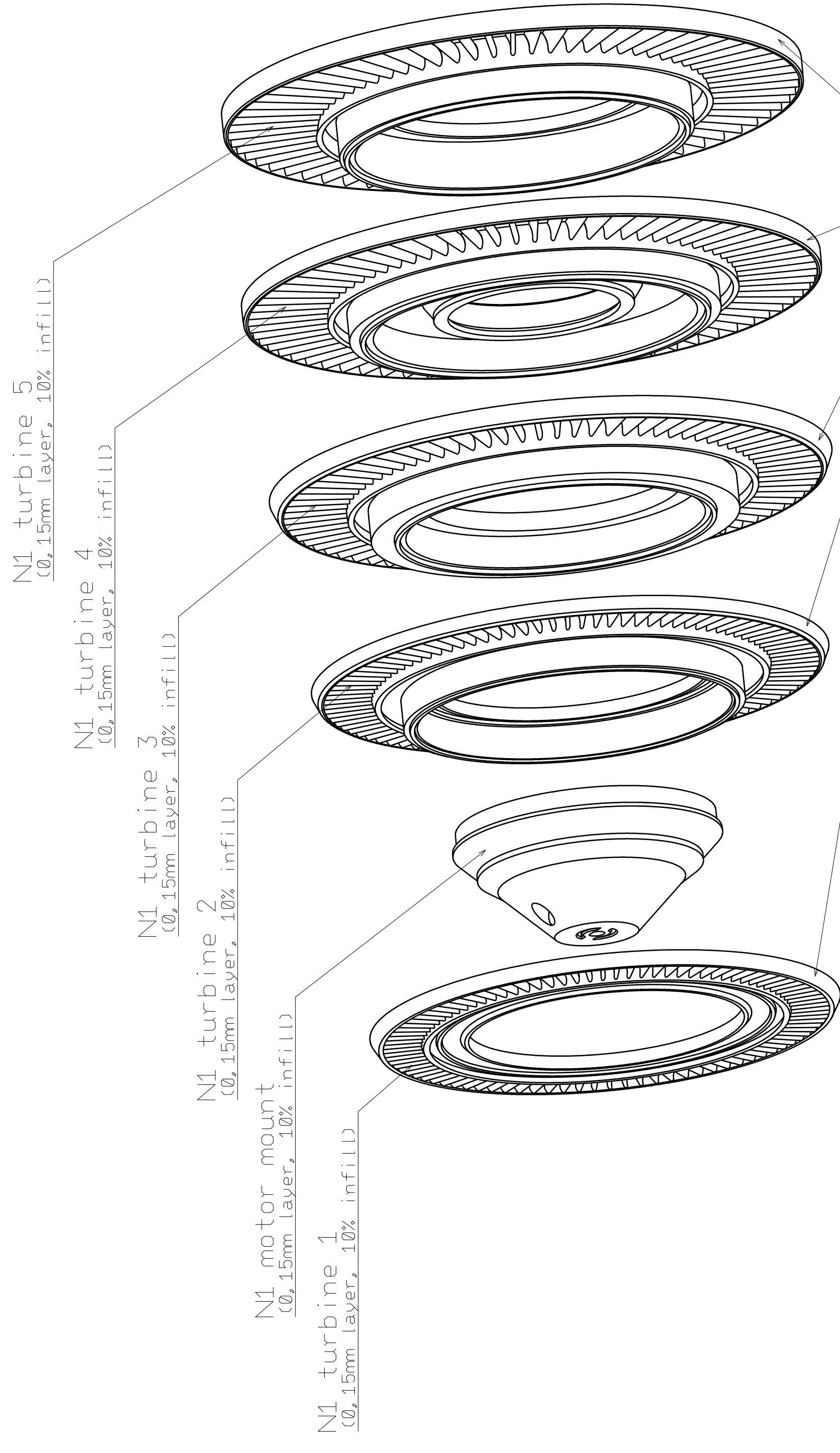
View of the motor and wire from the back.

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	SIZE: A1	SCALE: 1 : 1	
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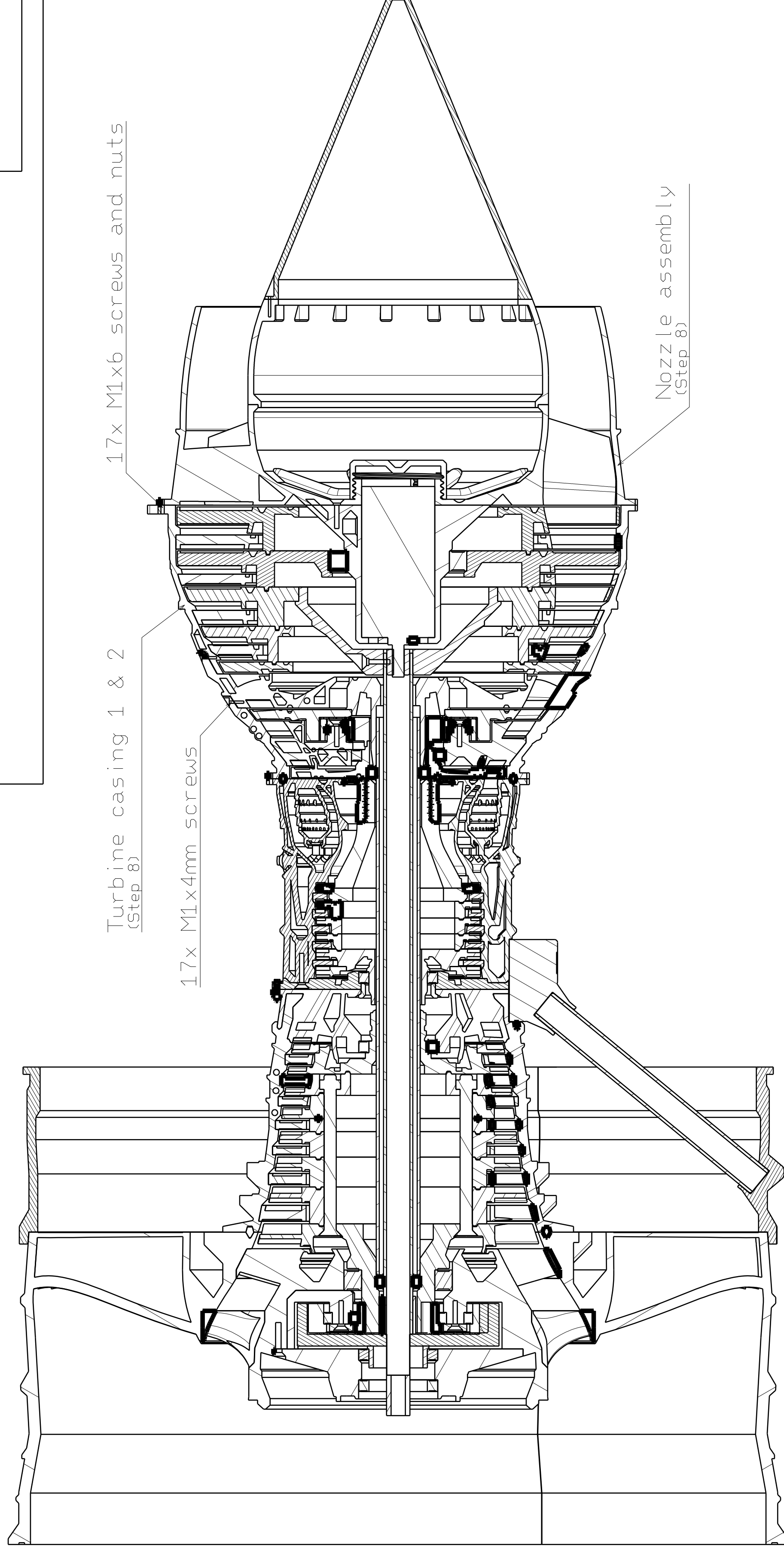


# GETS TURNED INSIDE OUT

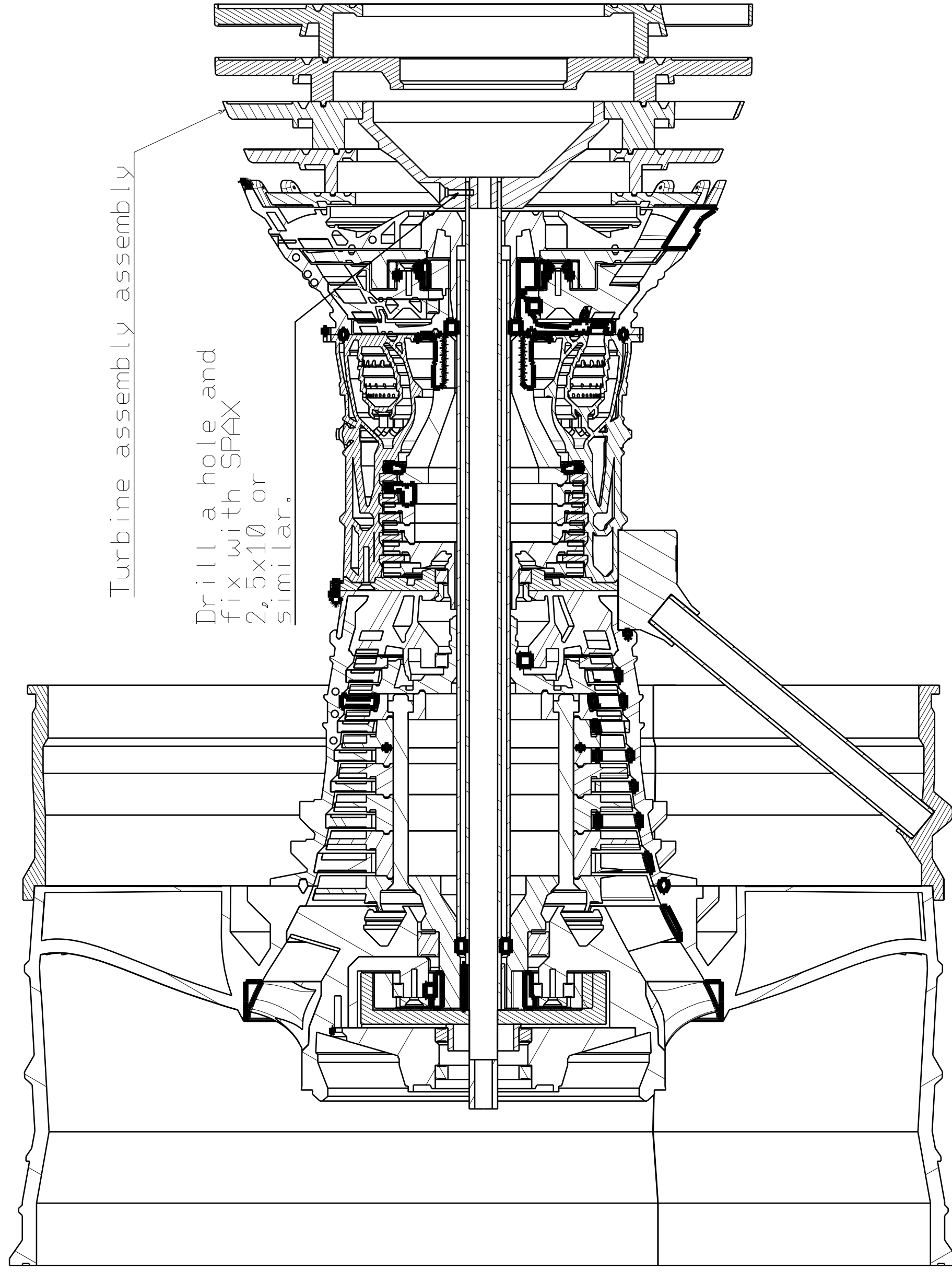
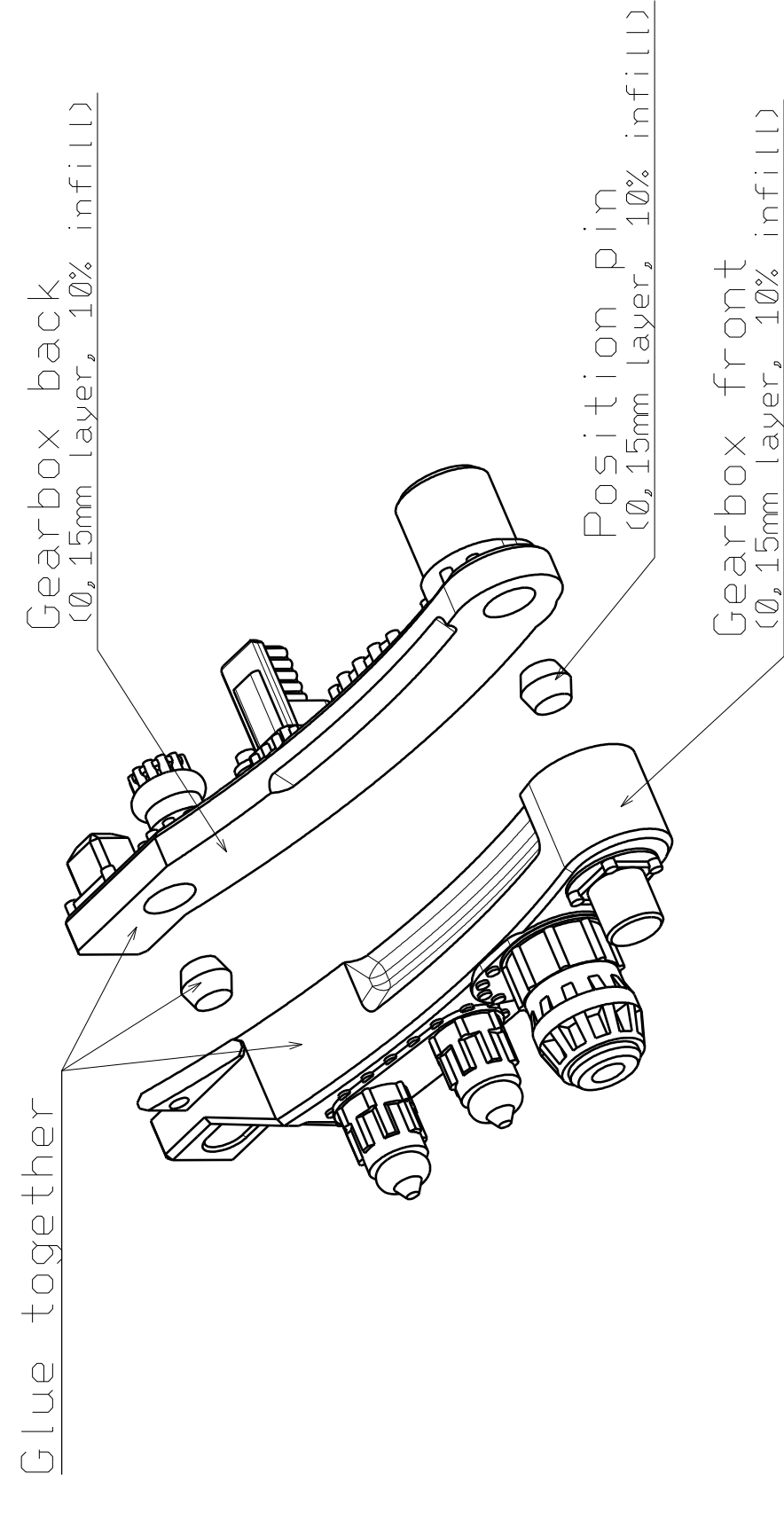
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29.000 + 500



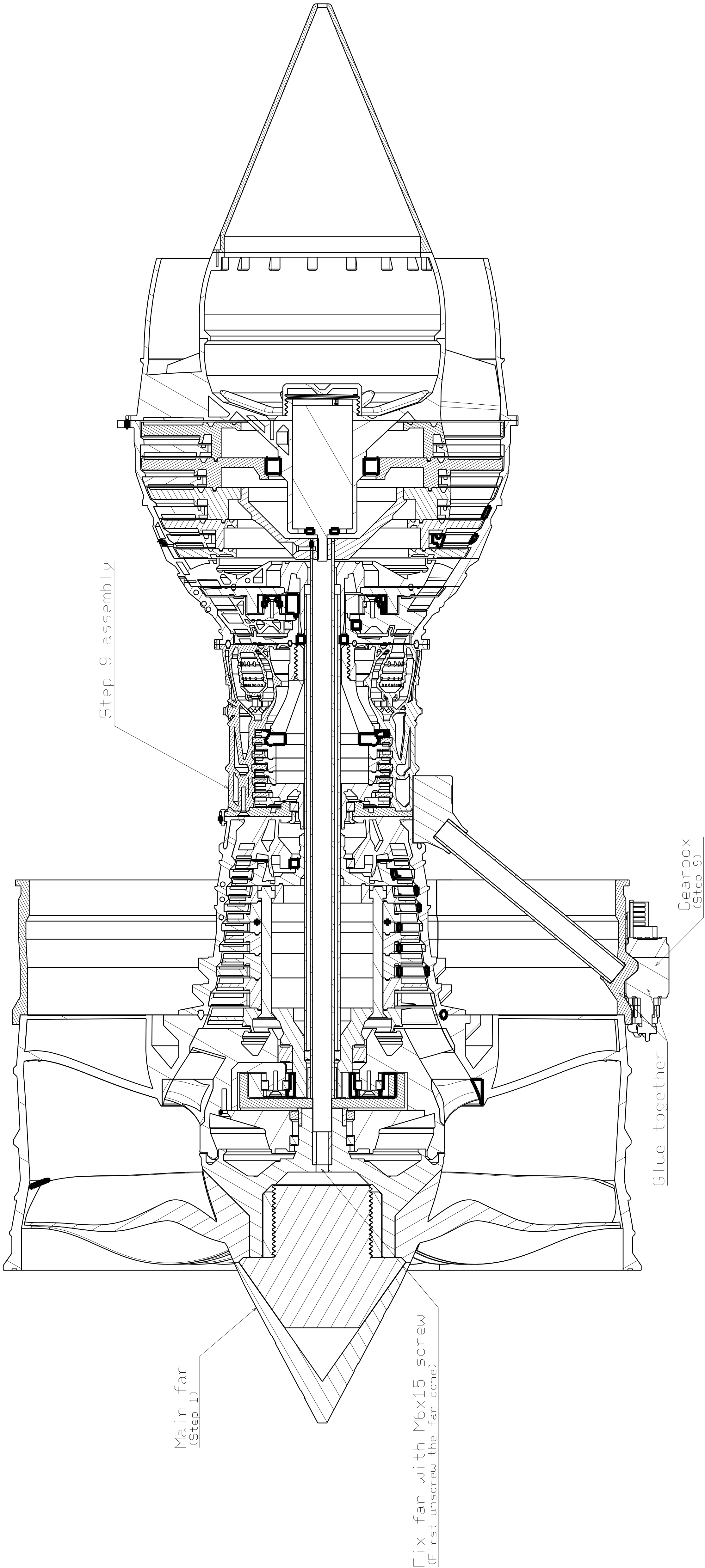
## Gearbox assembly




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STEP 10: Final assembly



Congratulations!  
Now you have your own Trent 900 replica.

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