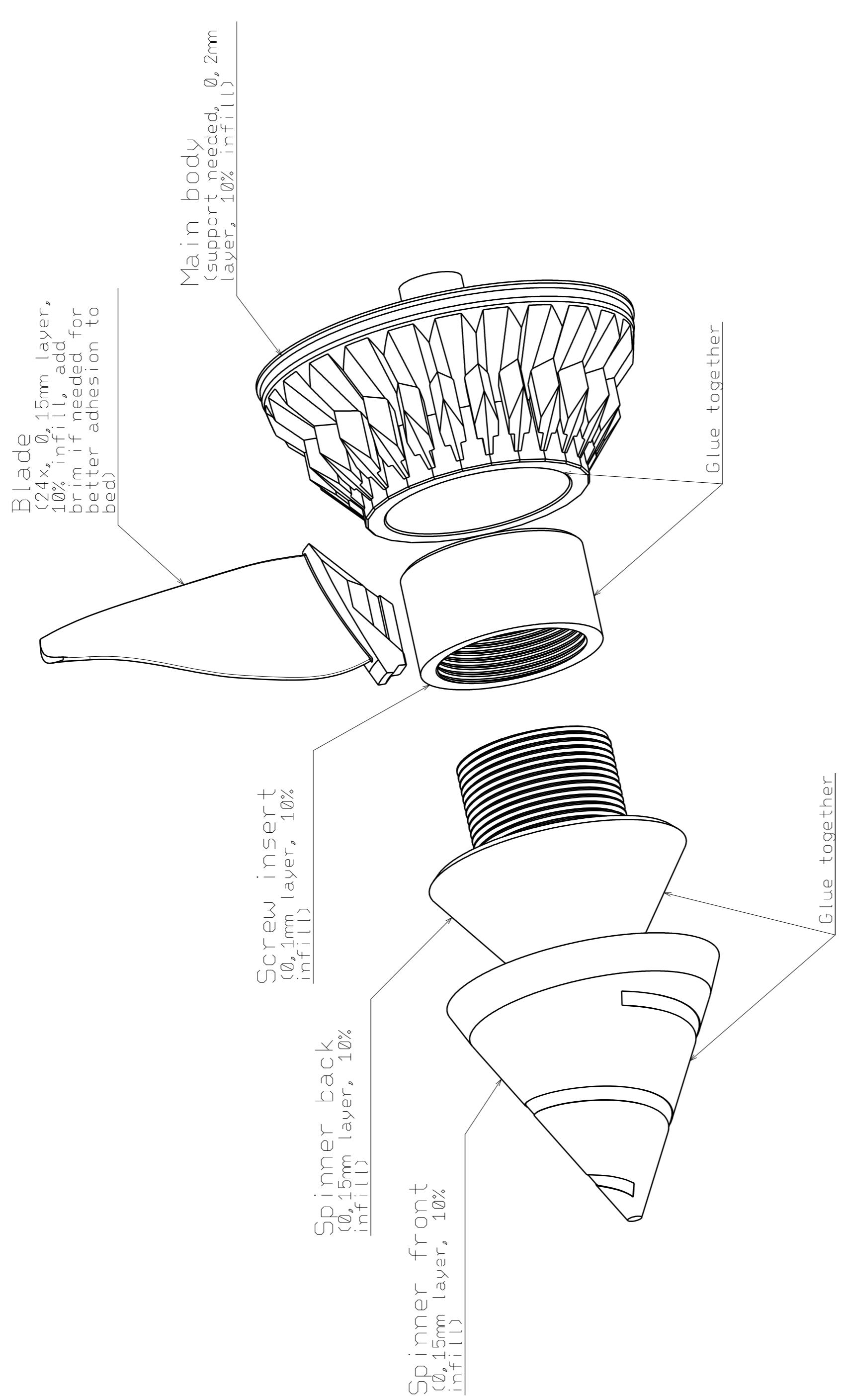
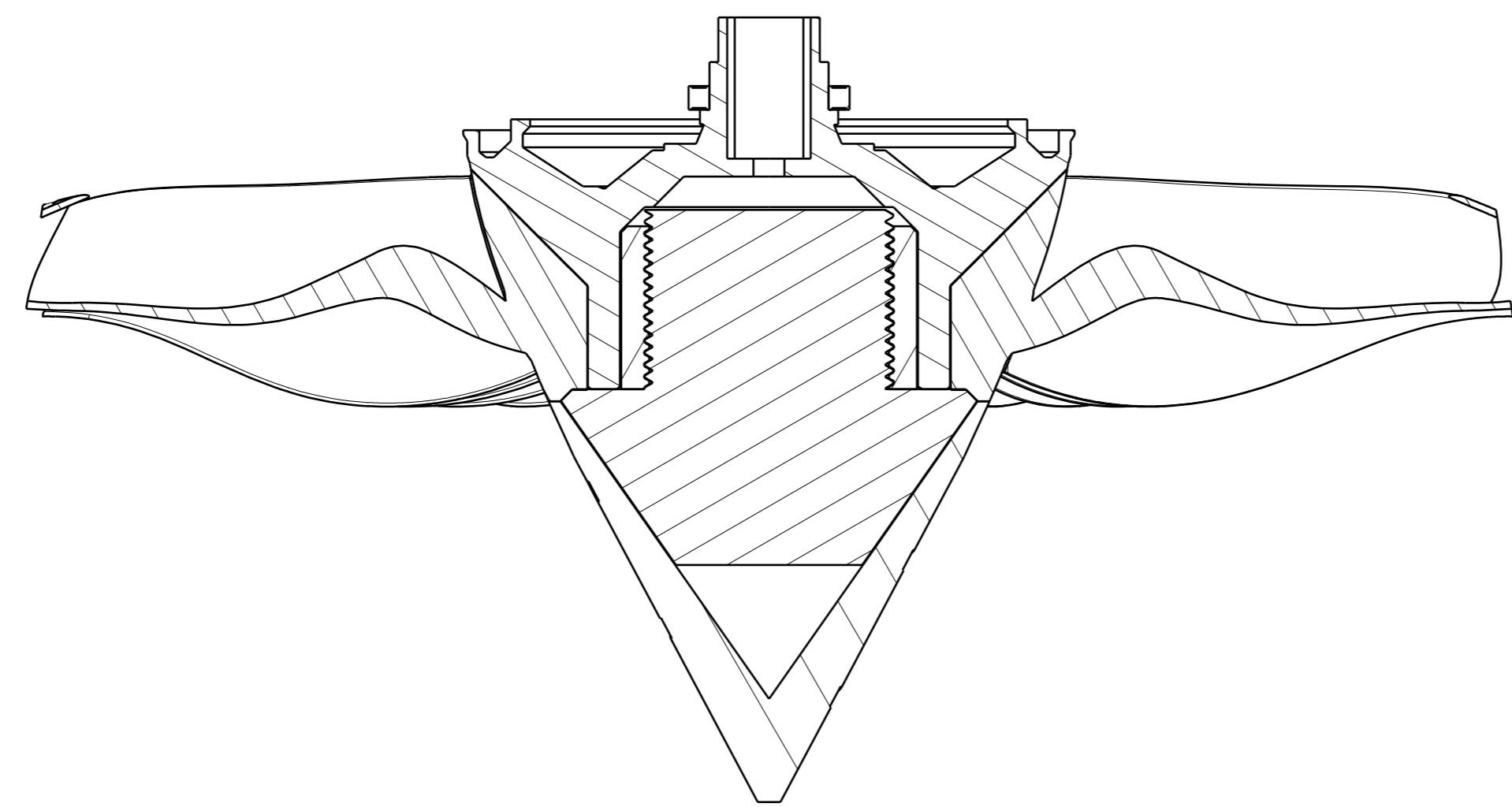


STEP 1: Fan assembly



Assembled section view



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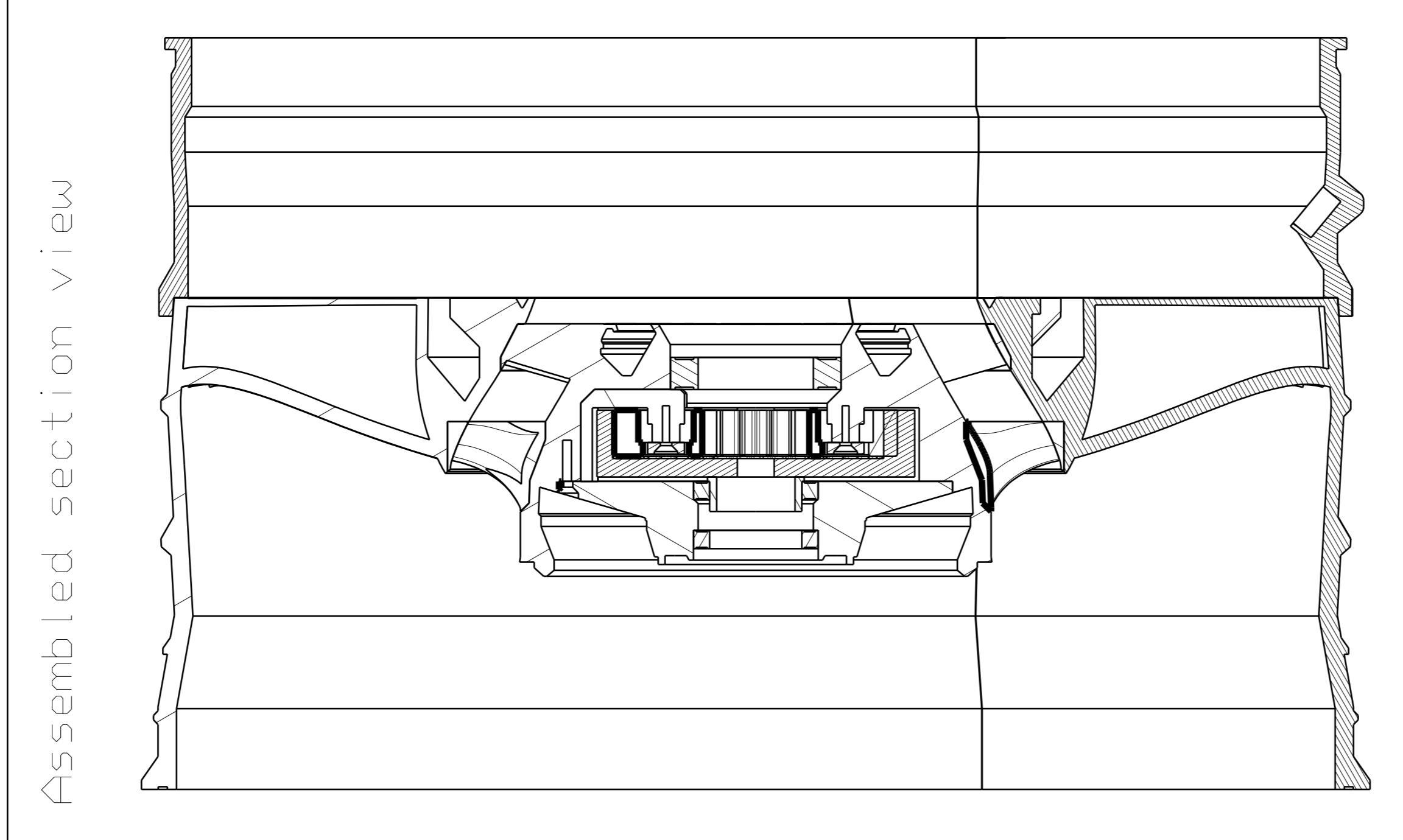
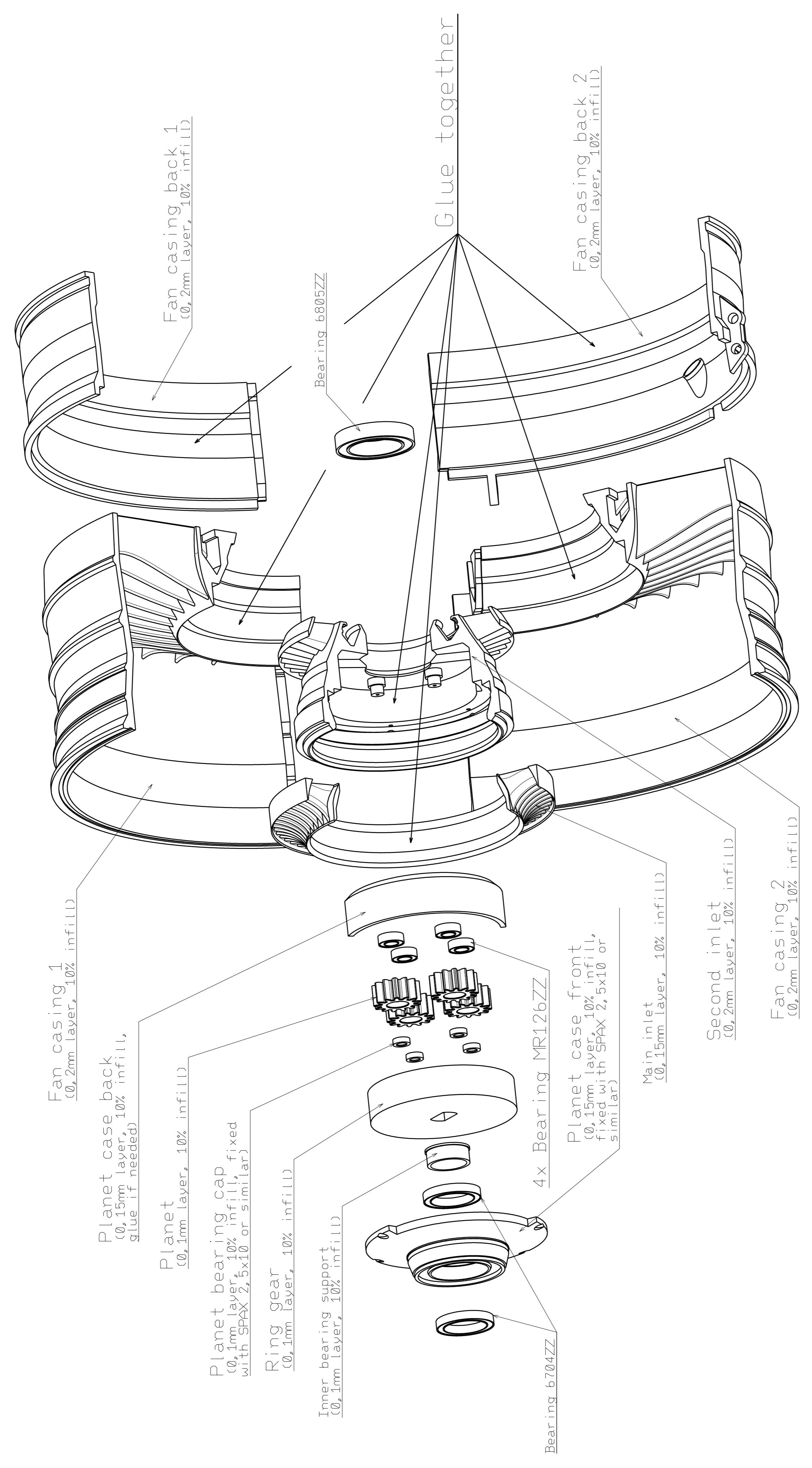
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| DATE | 7/01/2020 |
| CREATED BY | XXX |
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STEP 2: Front casting assembly



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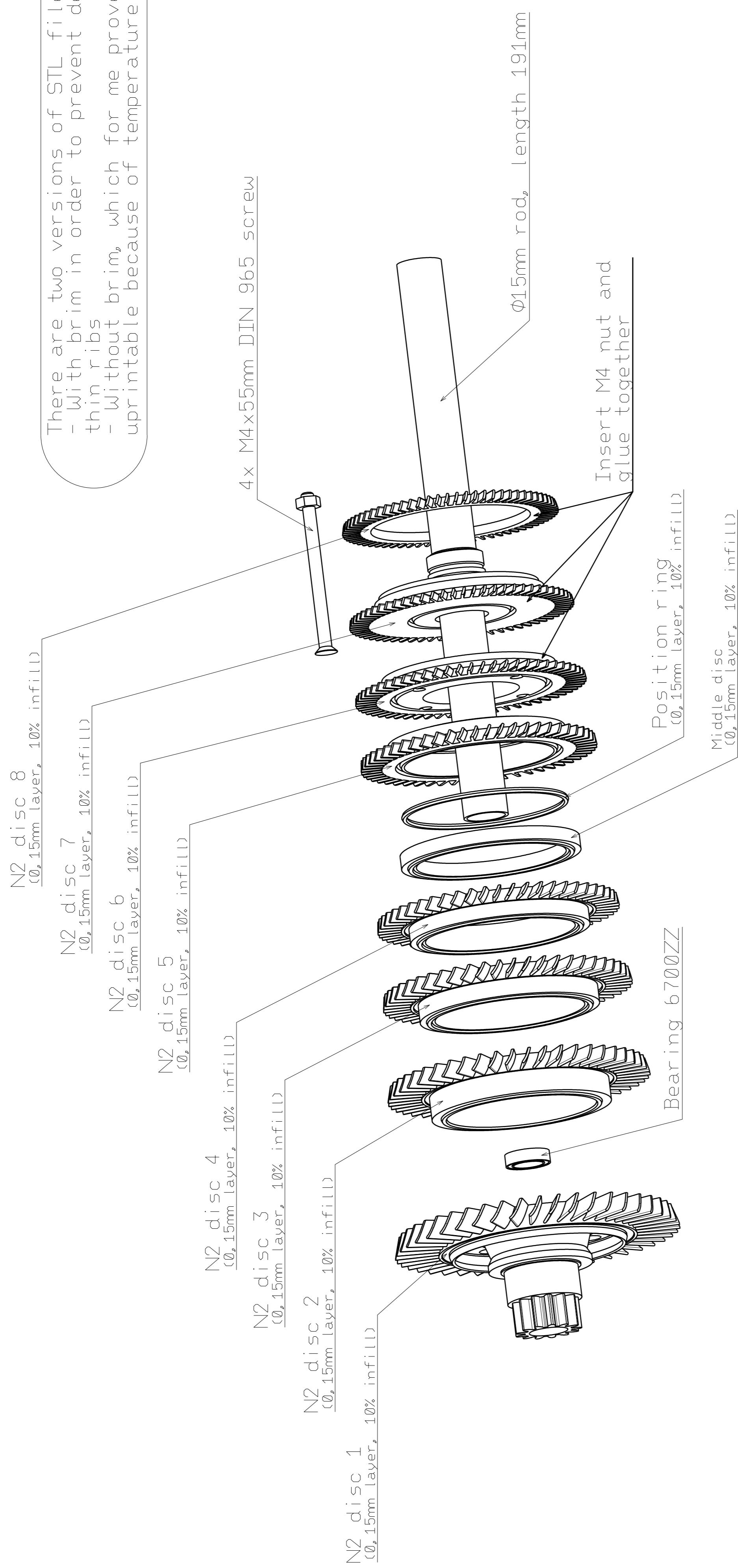
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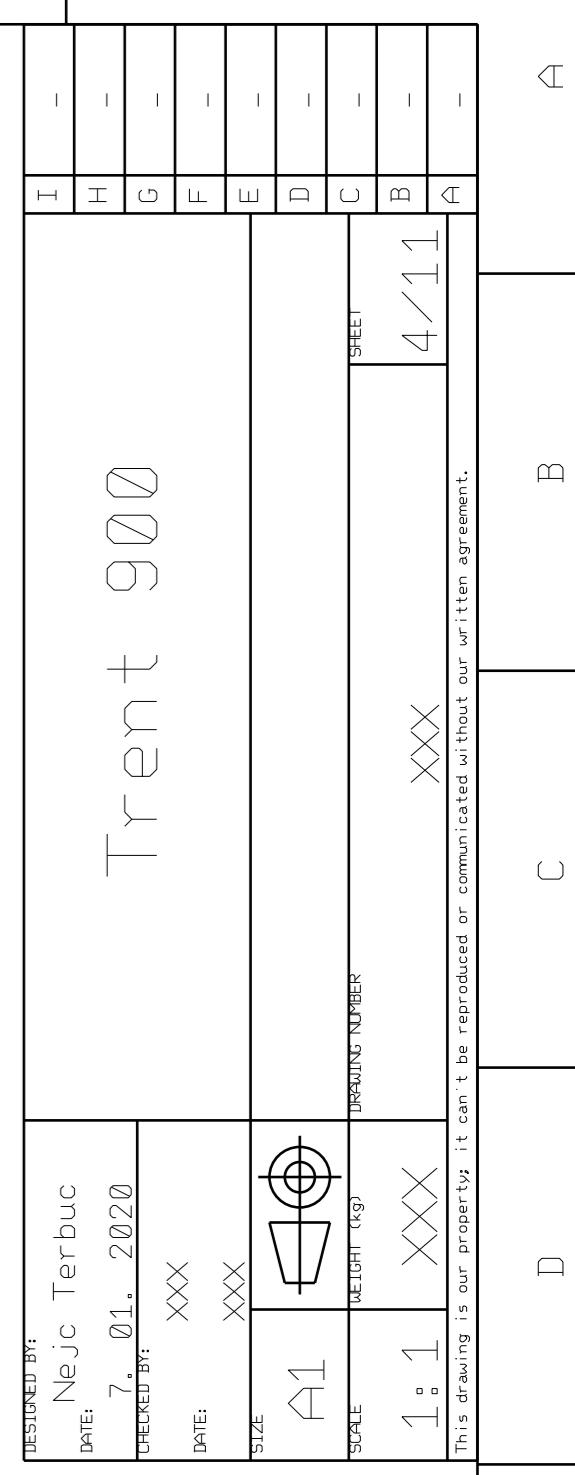
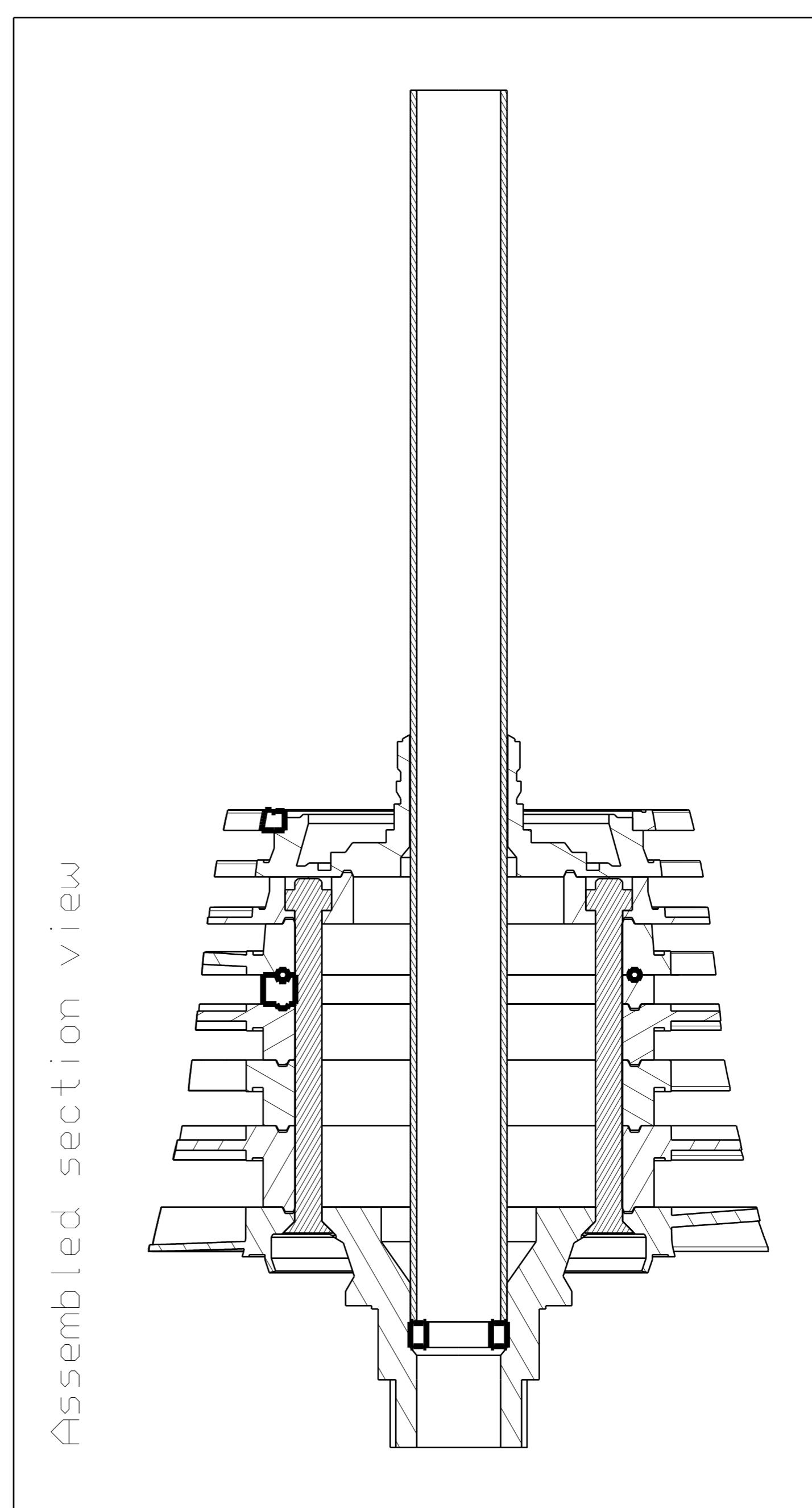
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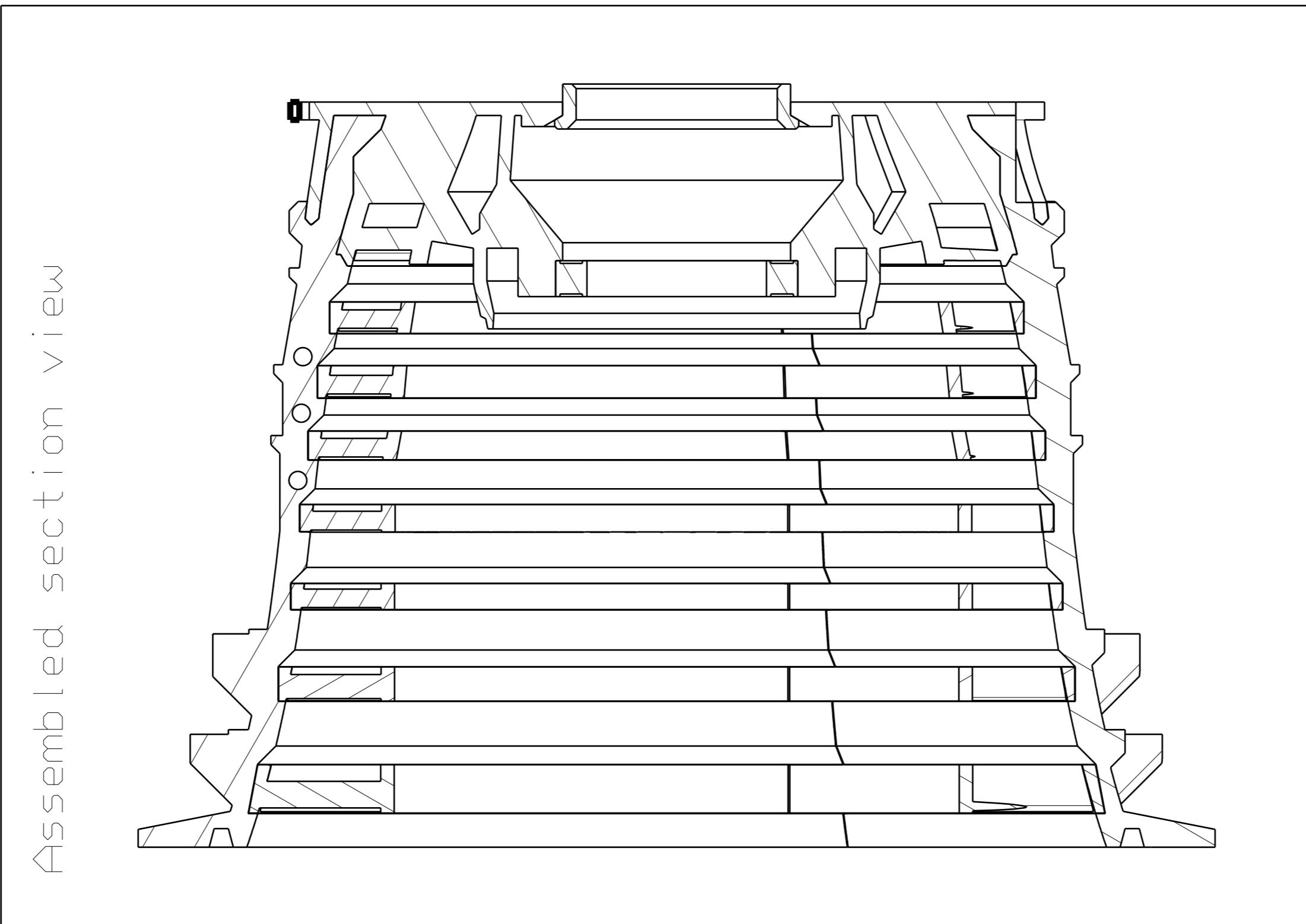
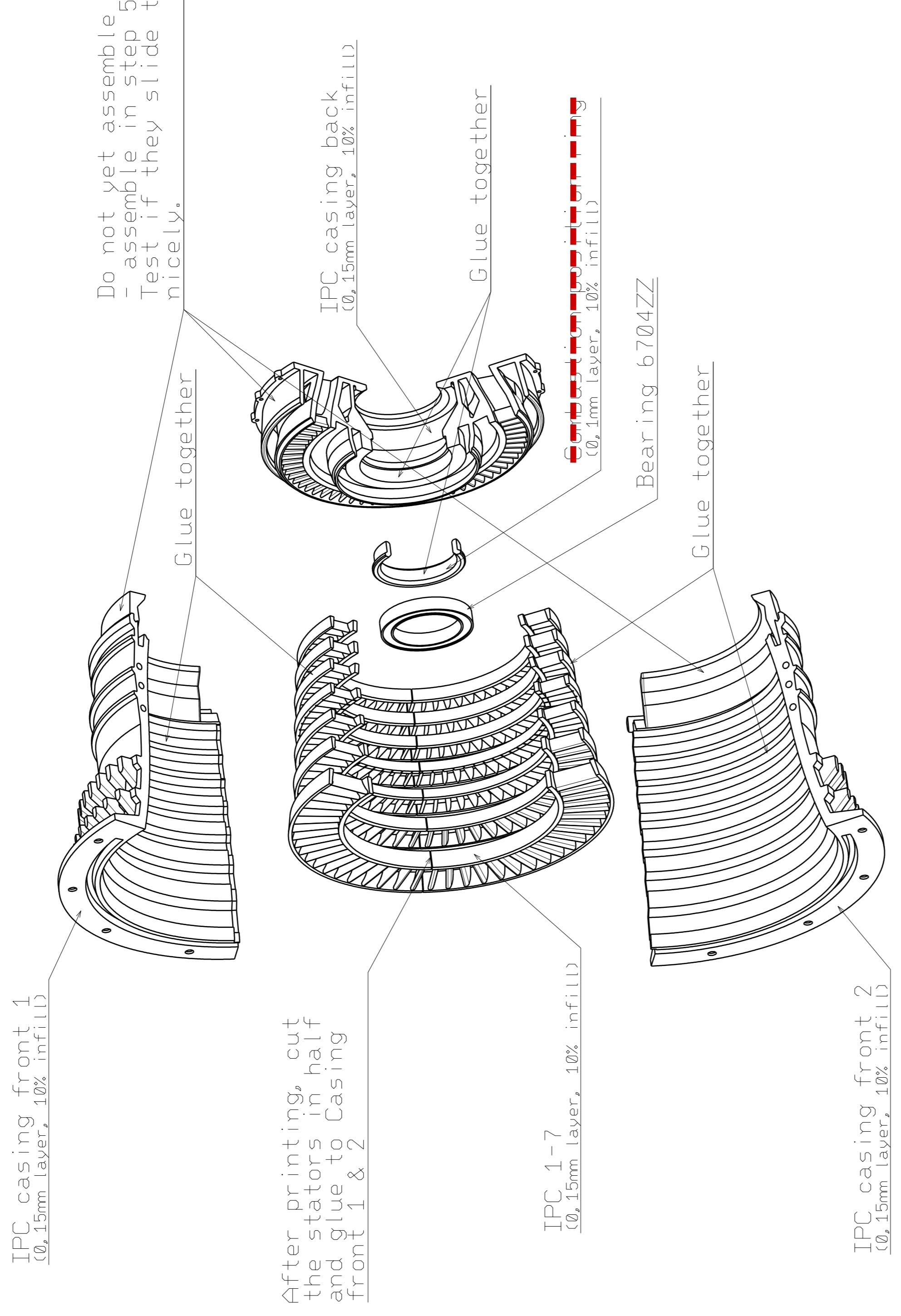
STEP 3: N2 component assembly



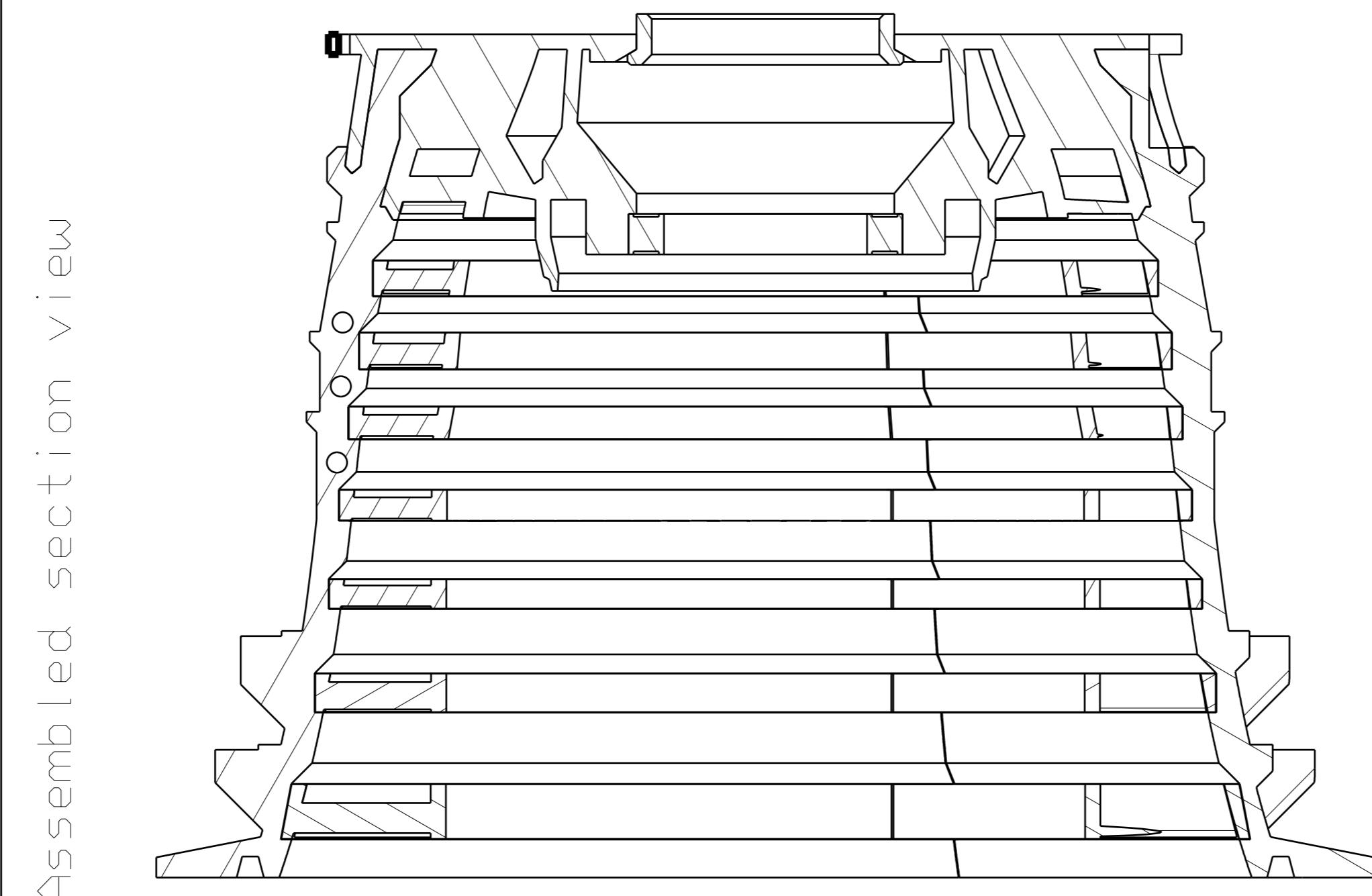
Assembled section view



STEP 4: N2 Compressor casing assembly



Assembled section view



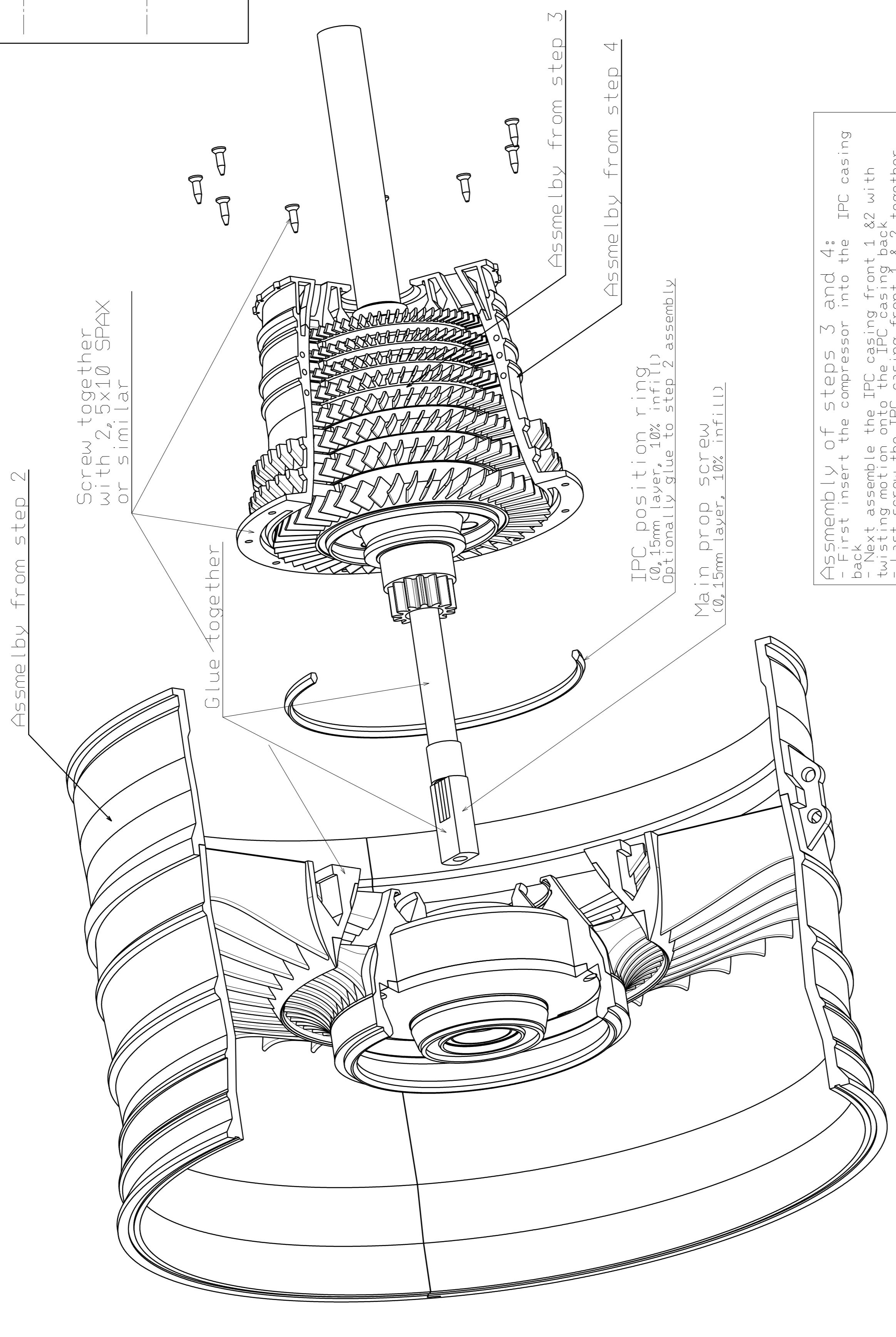
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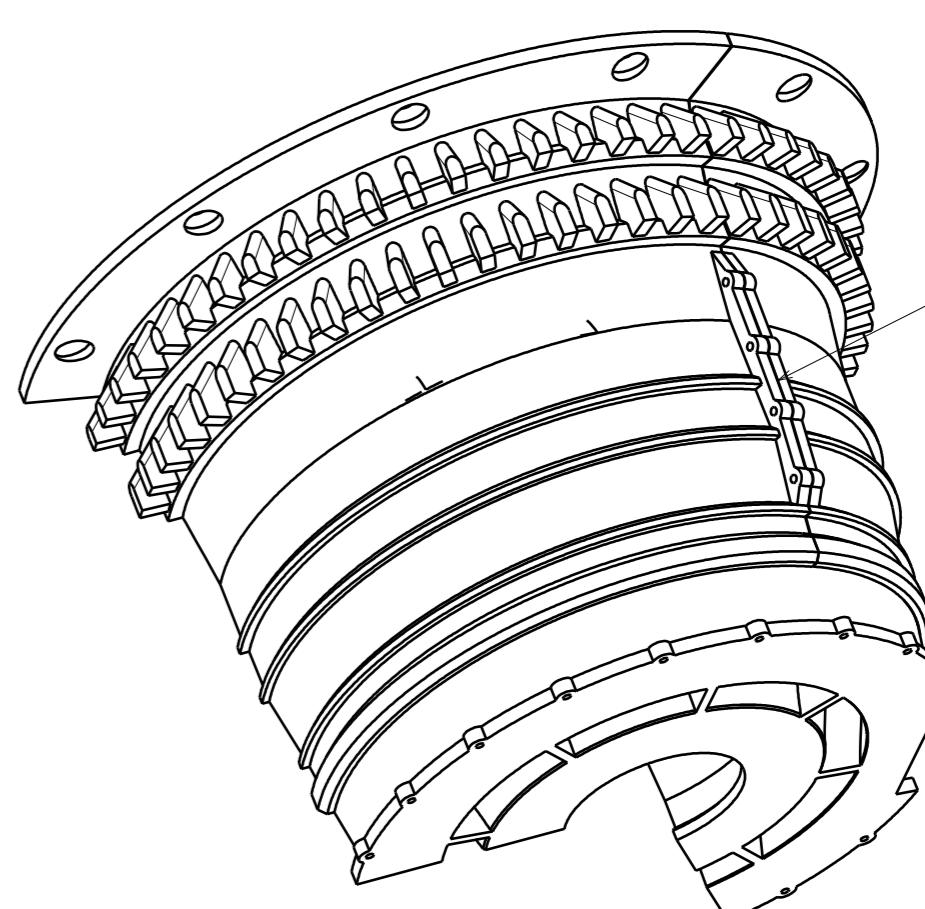
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STEP 5: Front casting assembly



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



Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

80

Should fit in N1 motor mount

3

Screw together with 2x 5x10 SPAX or similar

Assmby from step 2

Assmby from step 3

IPC position ring (Ø15mm layer, 10% infill)

Optionaly glued to step 2 assembly

Main PROD SCREW (Ø15mm layer, 10% infill)

Assmby from step 4

Assmby from step 5

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 6

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 7

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 8

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 9

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 10

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 11

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 12

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 13

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 14

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 15

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 16

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 17

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 18

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 19

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 20

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 21

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 22

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 23

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 24

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 25

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 26

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 27

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

Assmby from step 28

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

3

Should fit in N1 motor mount

3

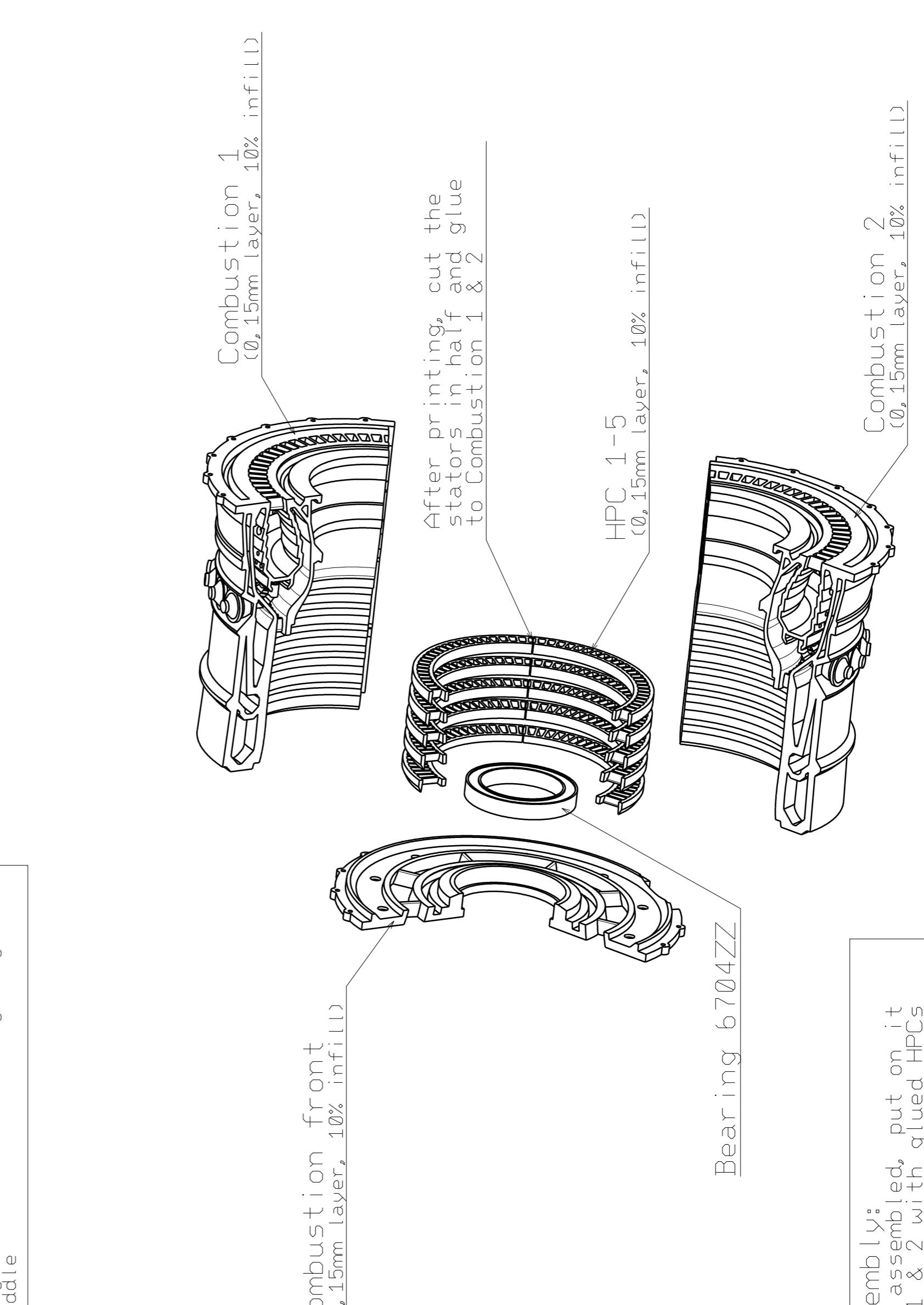
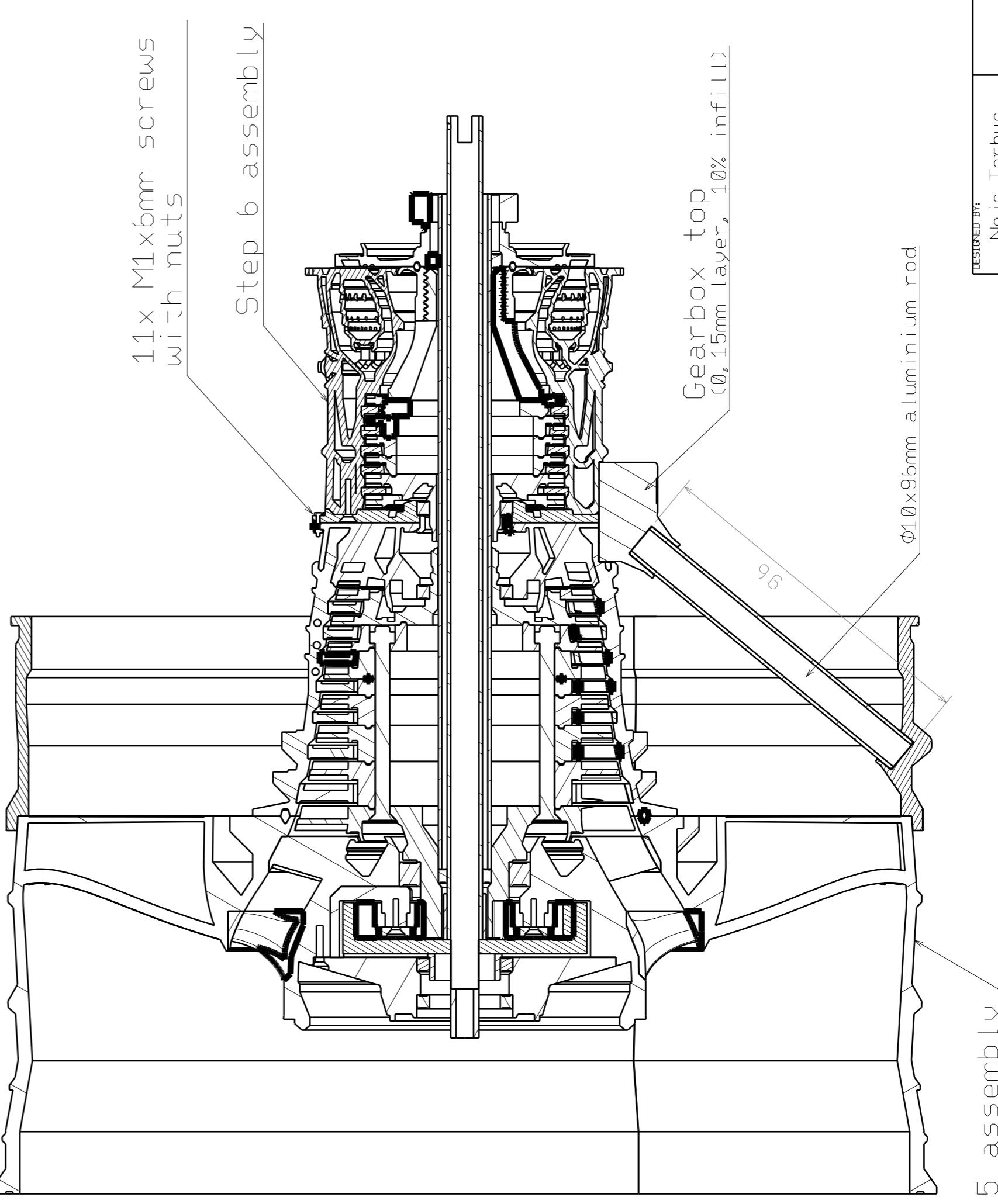
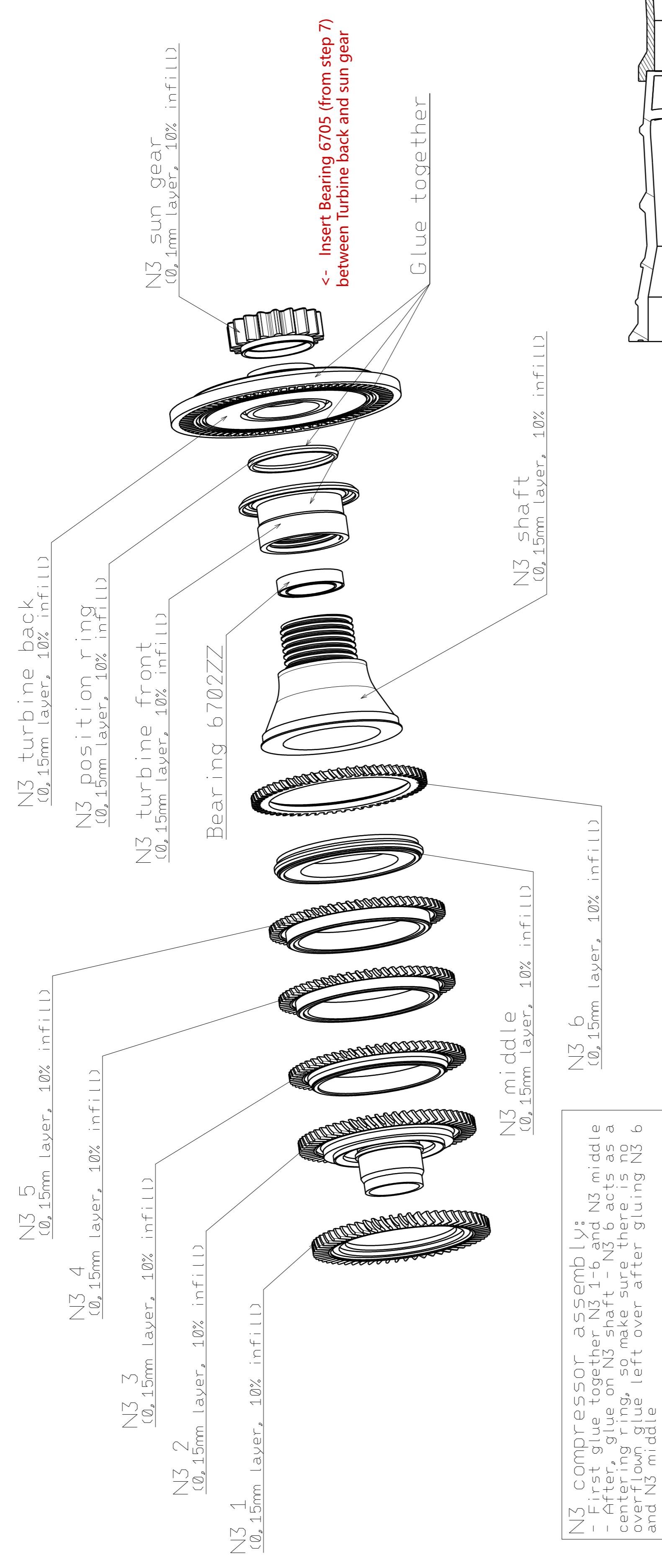
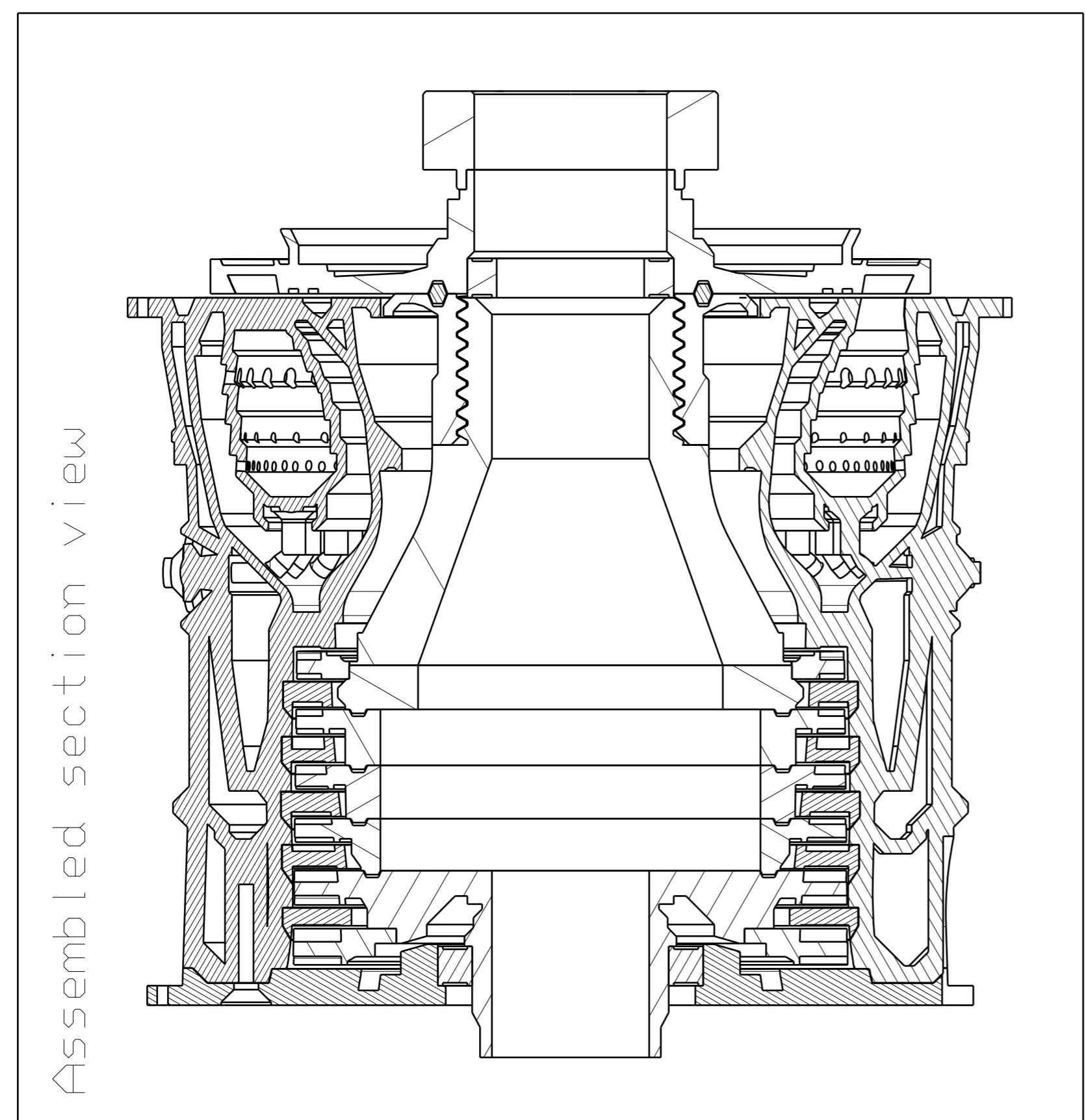
Assmby from step 29

Aluminium rod Ø10x247mm

247

Should fit in Main prop screw

STEP 6: N3 and combustion assembly



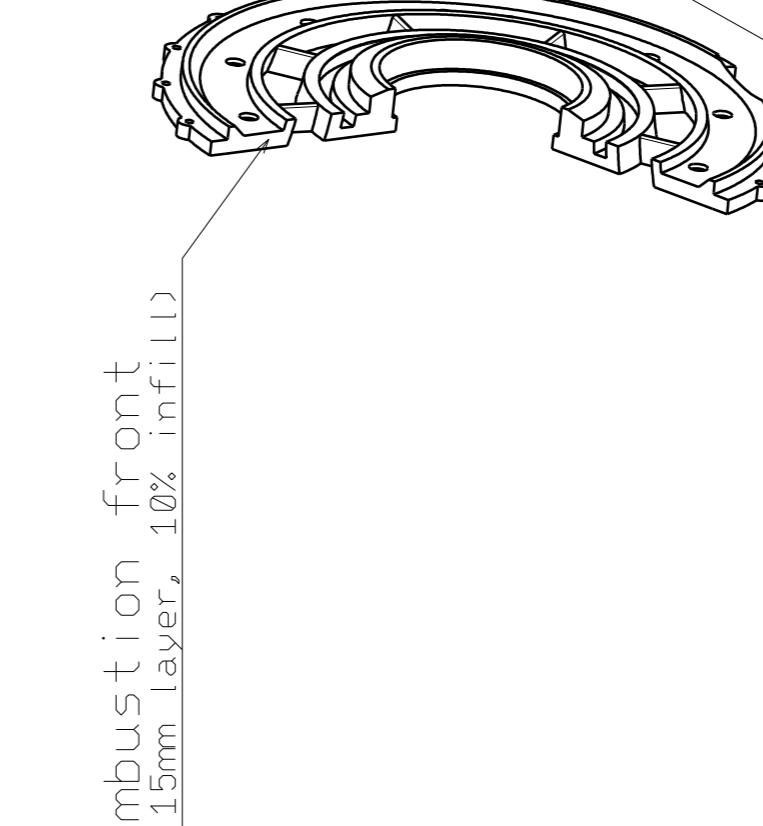
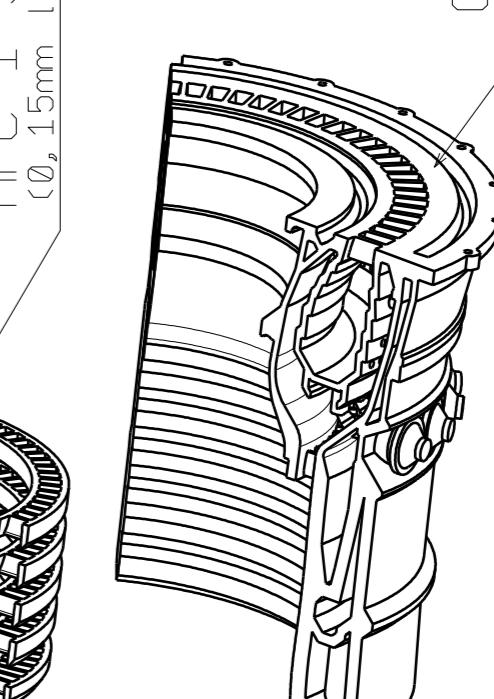
Final assembly.
After N3 is assembled, put on its Combustion 1 & 2 with glued HPC's and at the end screw on Combustion front with inserted bearing. Use 2, 5x10 SPAX screws or similar.

Combustion 2
(Ø,15mm layer, 10% infill)

HP C 1-5
(Ø,15mm layer, 10% infill)

Combustion 1
(Ø,15mm layer, 10% infill)

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



Bearing 6704ZZ

Combustion 1
(Ø,15mm layer, 10% infill)

HP C 1-5
(Ø,15mm layer, 10% infill)



Ø10x96mm aluminium rod

Gearbox top
(Ø,15mm layer, 10% infill)

Ø10x96mm aluminium rod

11x M1x6mm screws
with nuts

Step 6 assembly

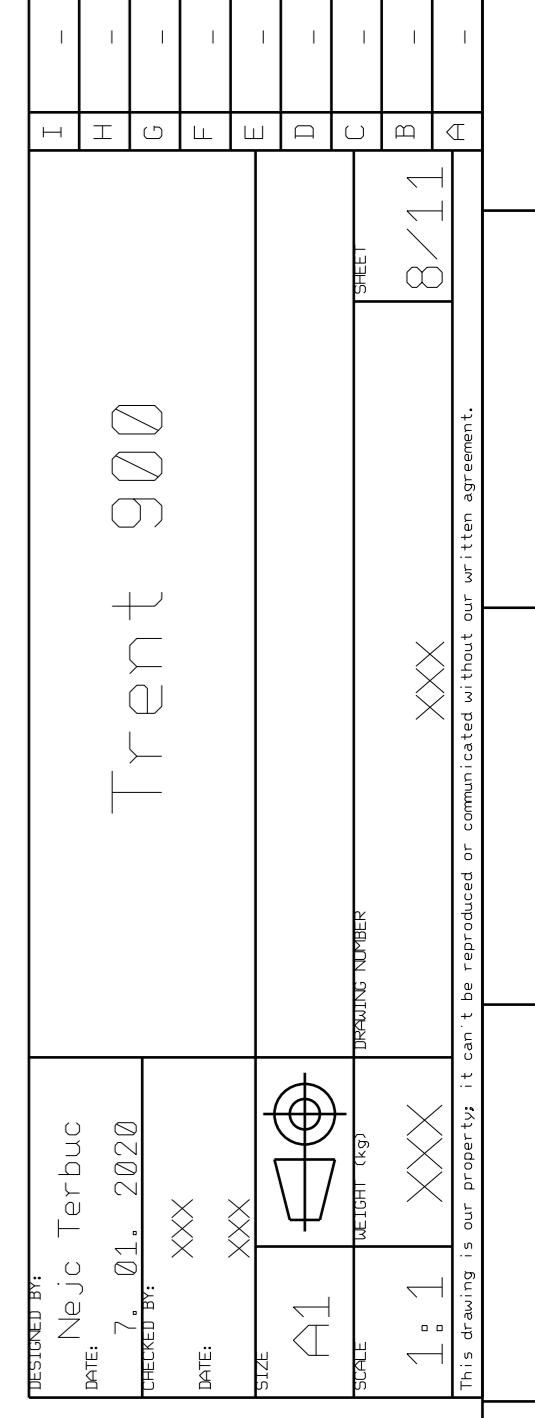
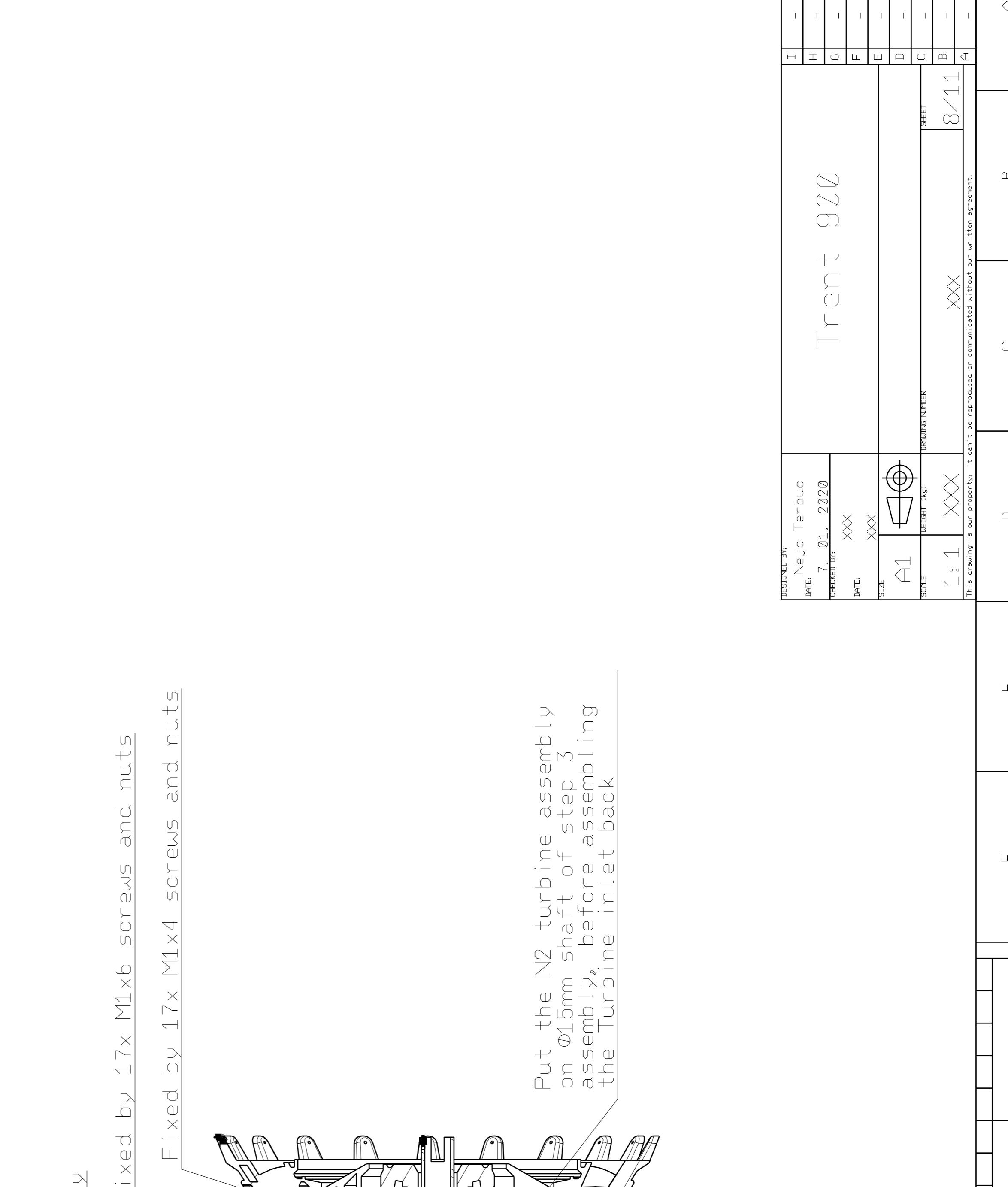
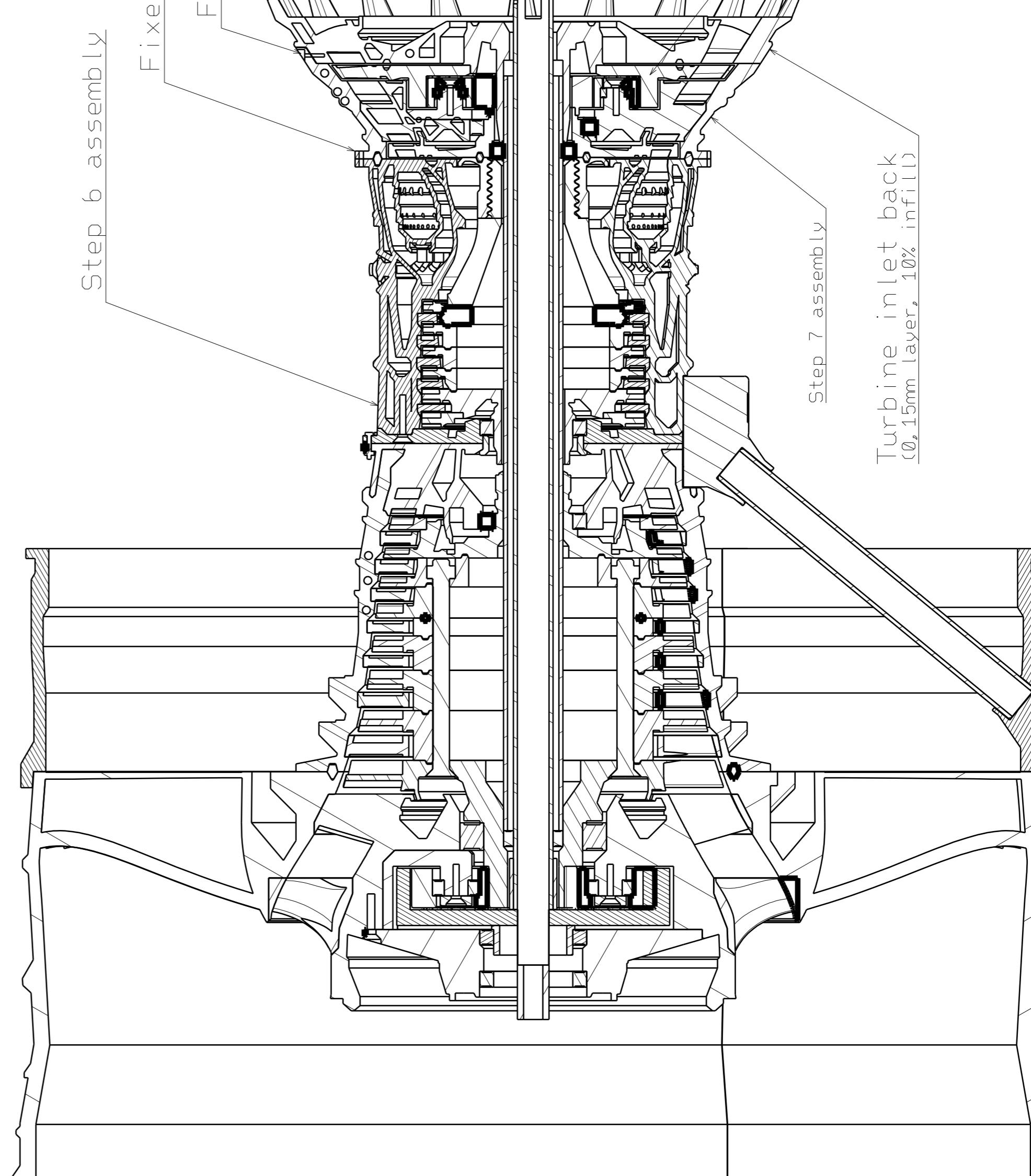
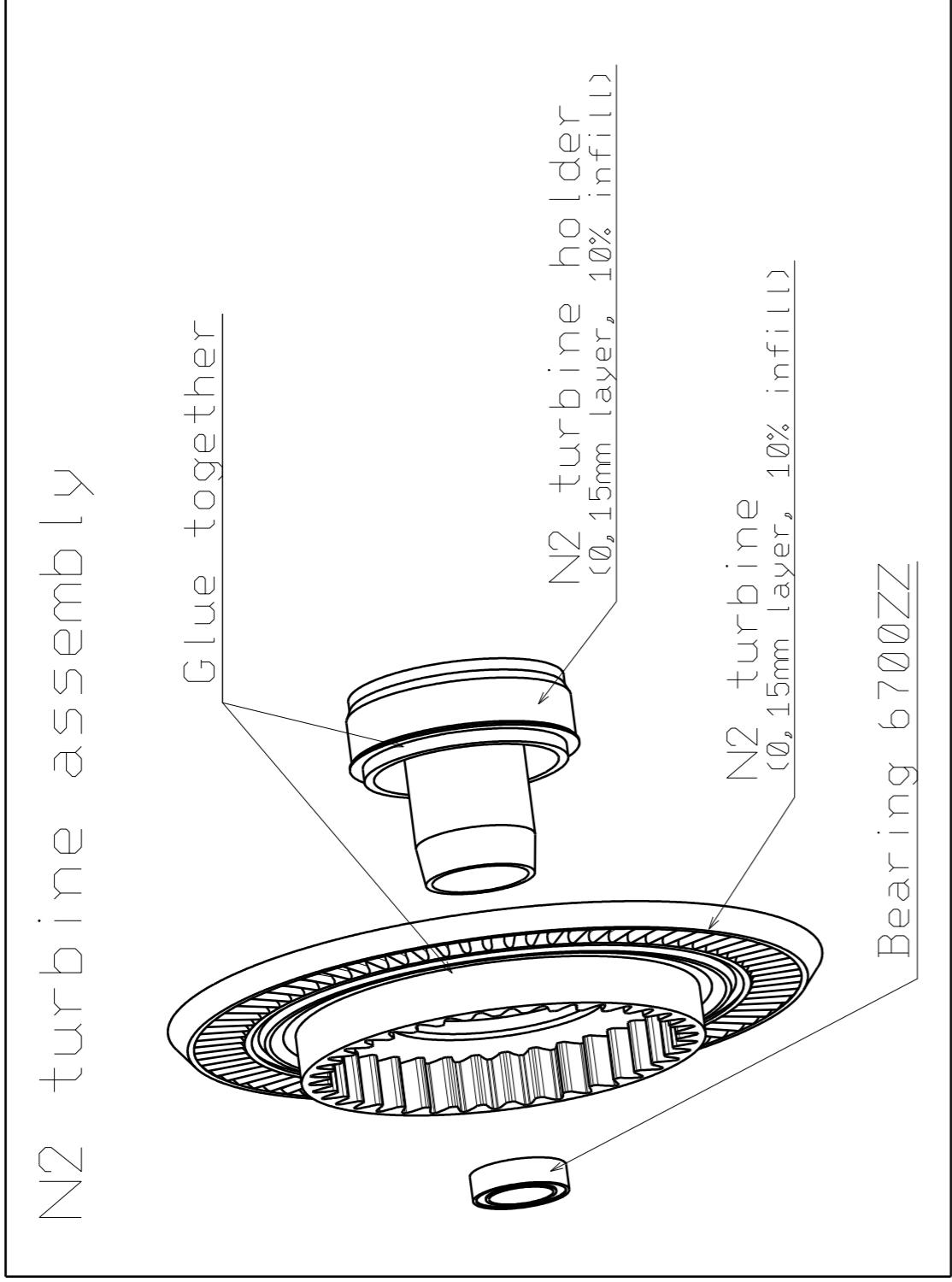
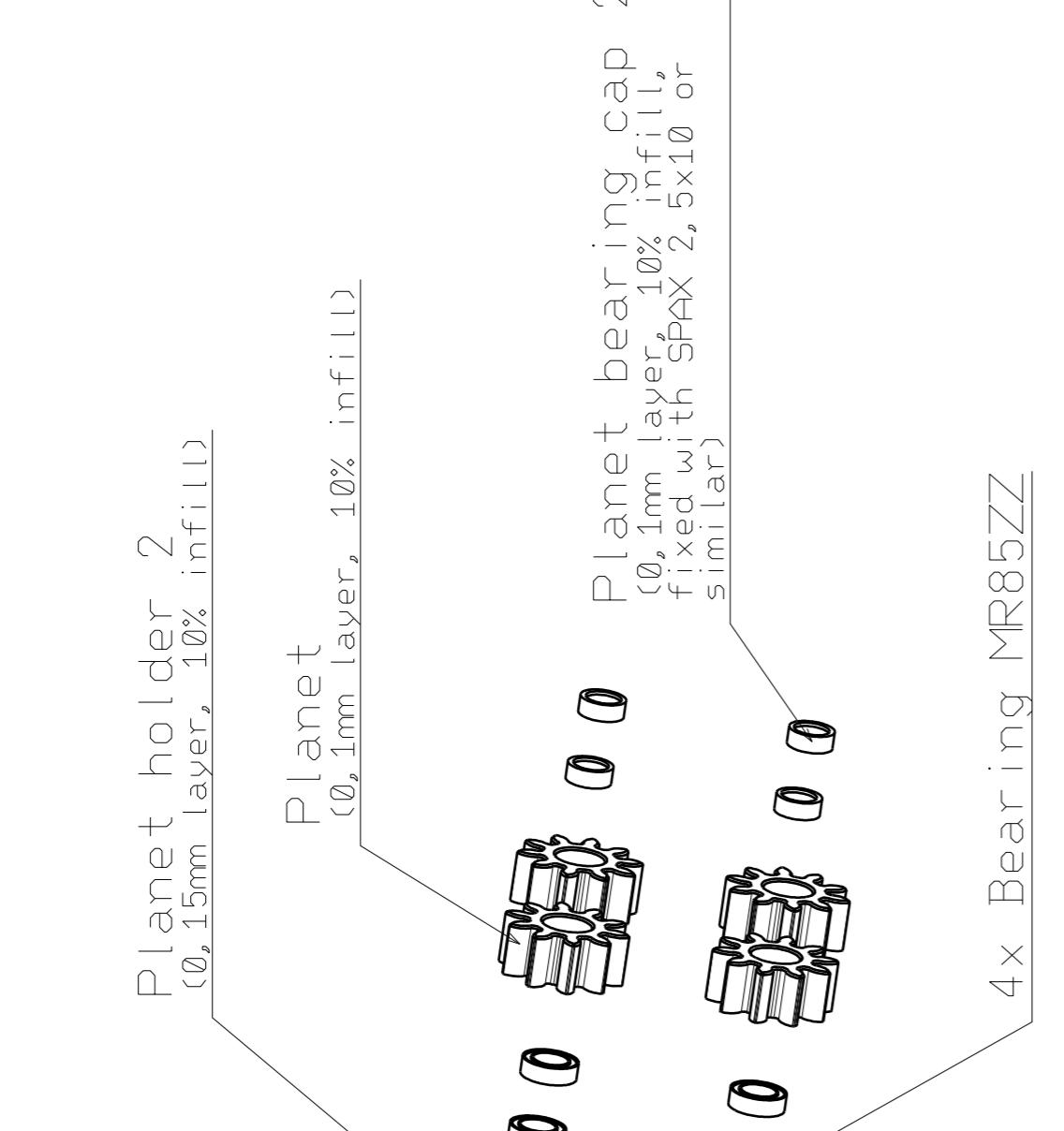
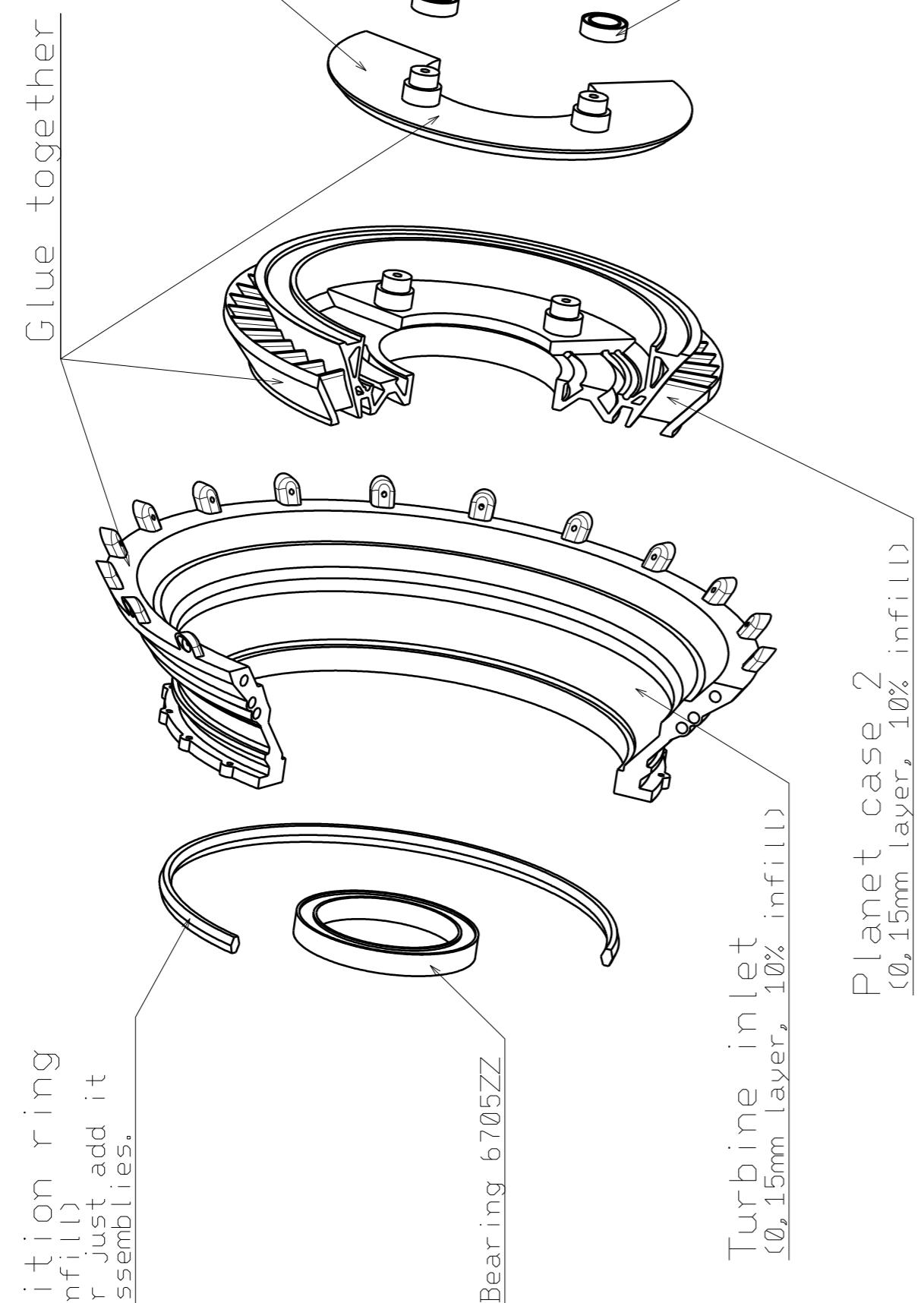
Gearbox assembly:
Insert aluminium rod into
Gearbox top and into the
hole in Fan casing back 2.
If everything fits nicely,
glue Gearbox top to
Combustion 2. Make sure no
glue touches Combustion
front as it will prevent the
disassembly.

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STEP 7: Turbine inlet assembly

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

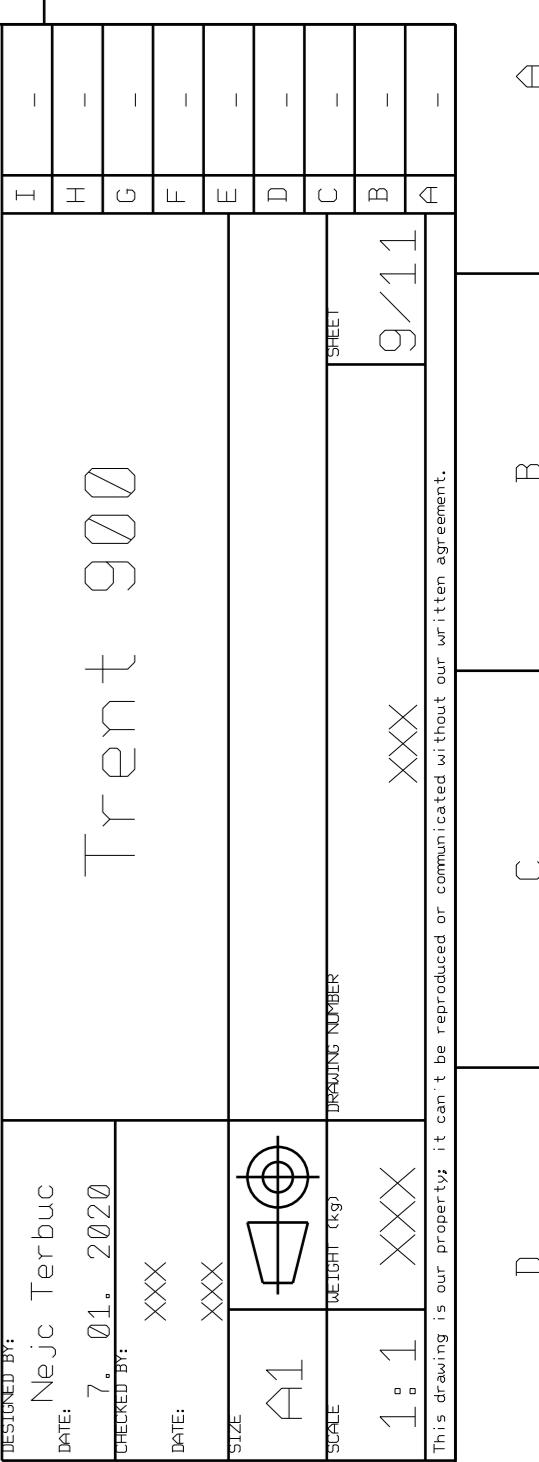
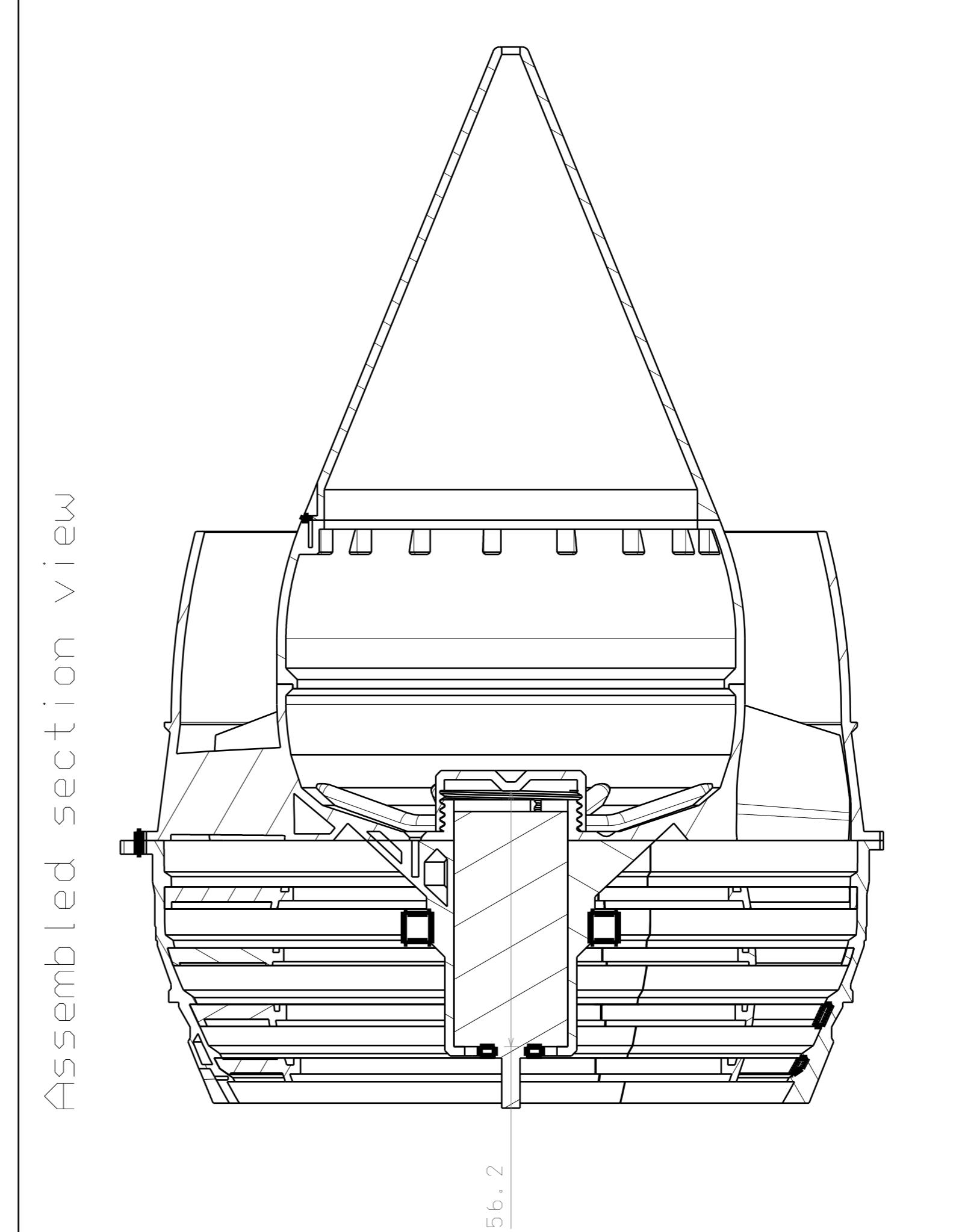
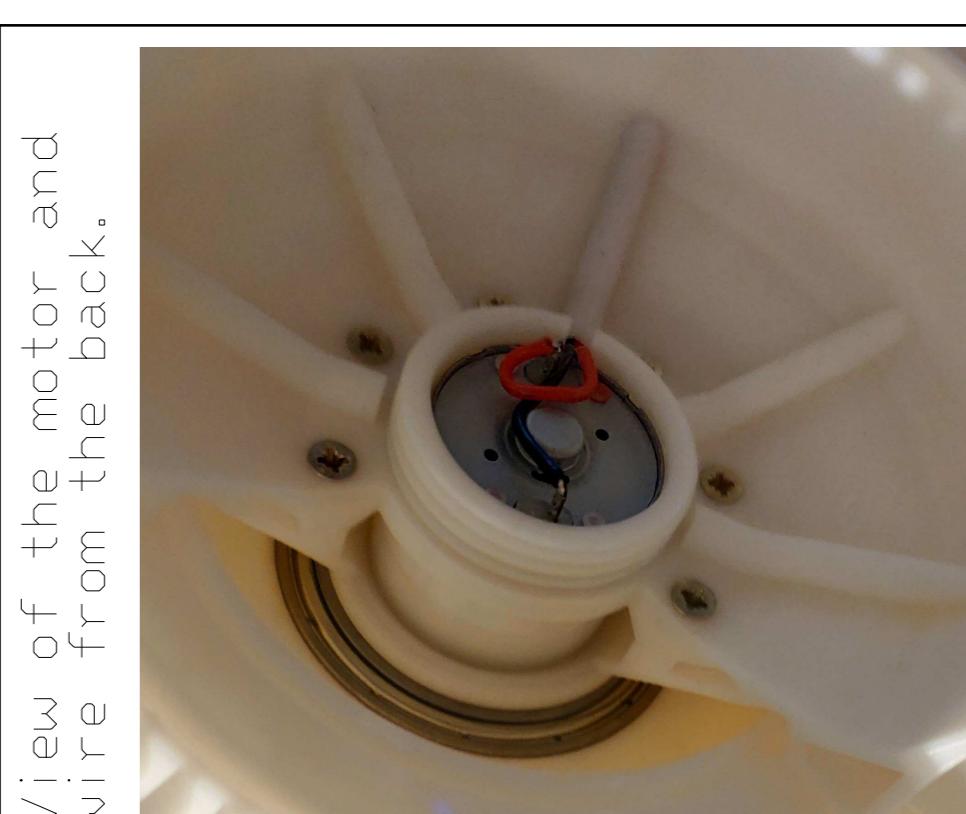
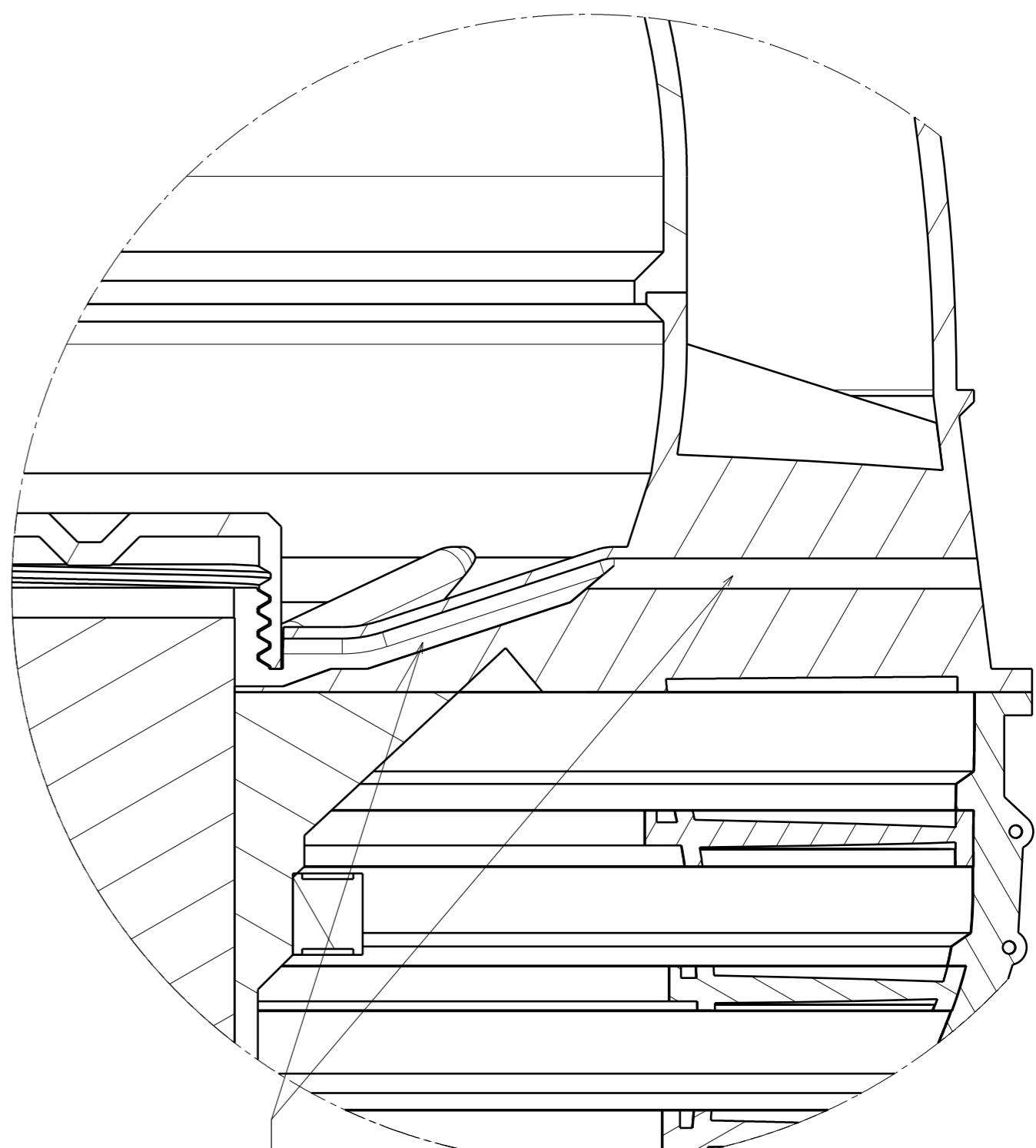
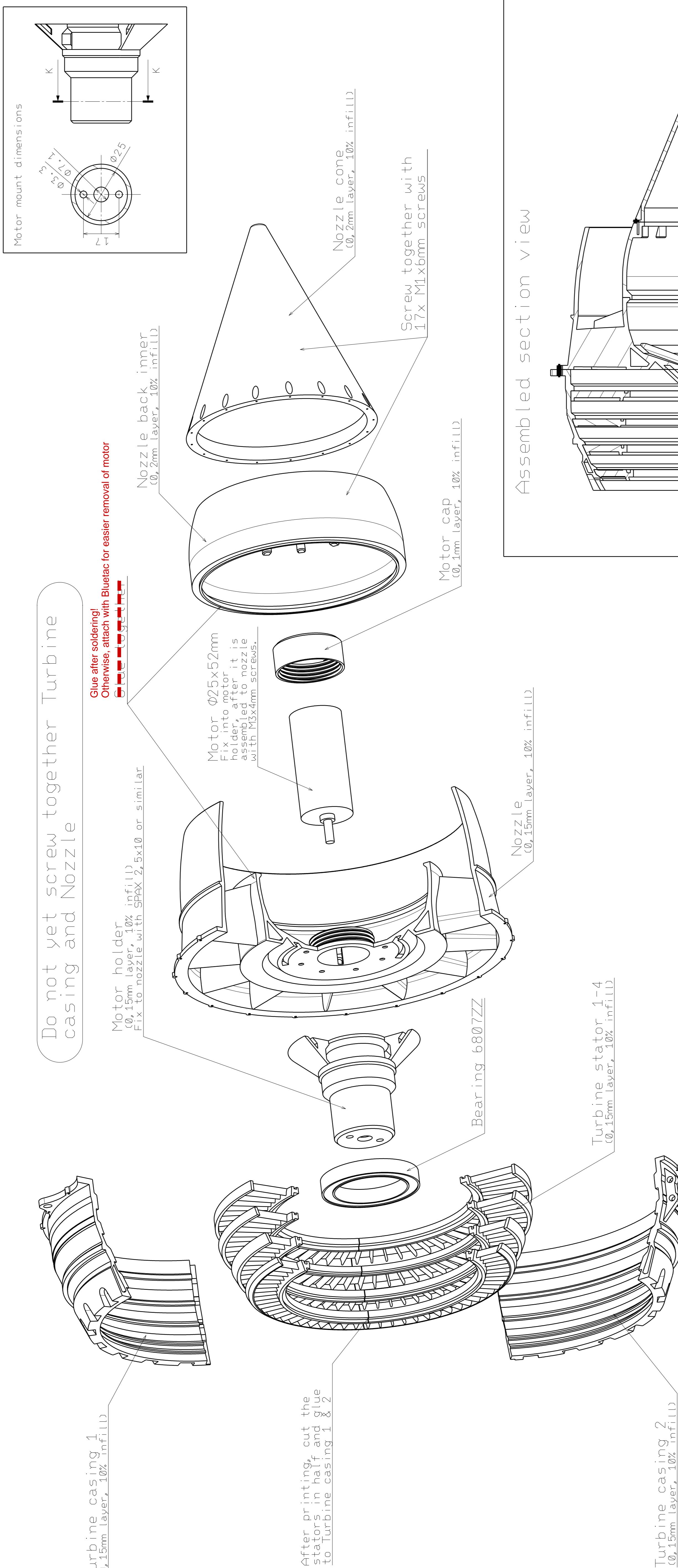


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DATE: 1.1.2020
REV: 8/11
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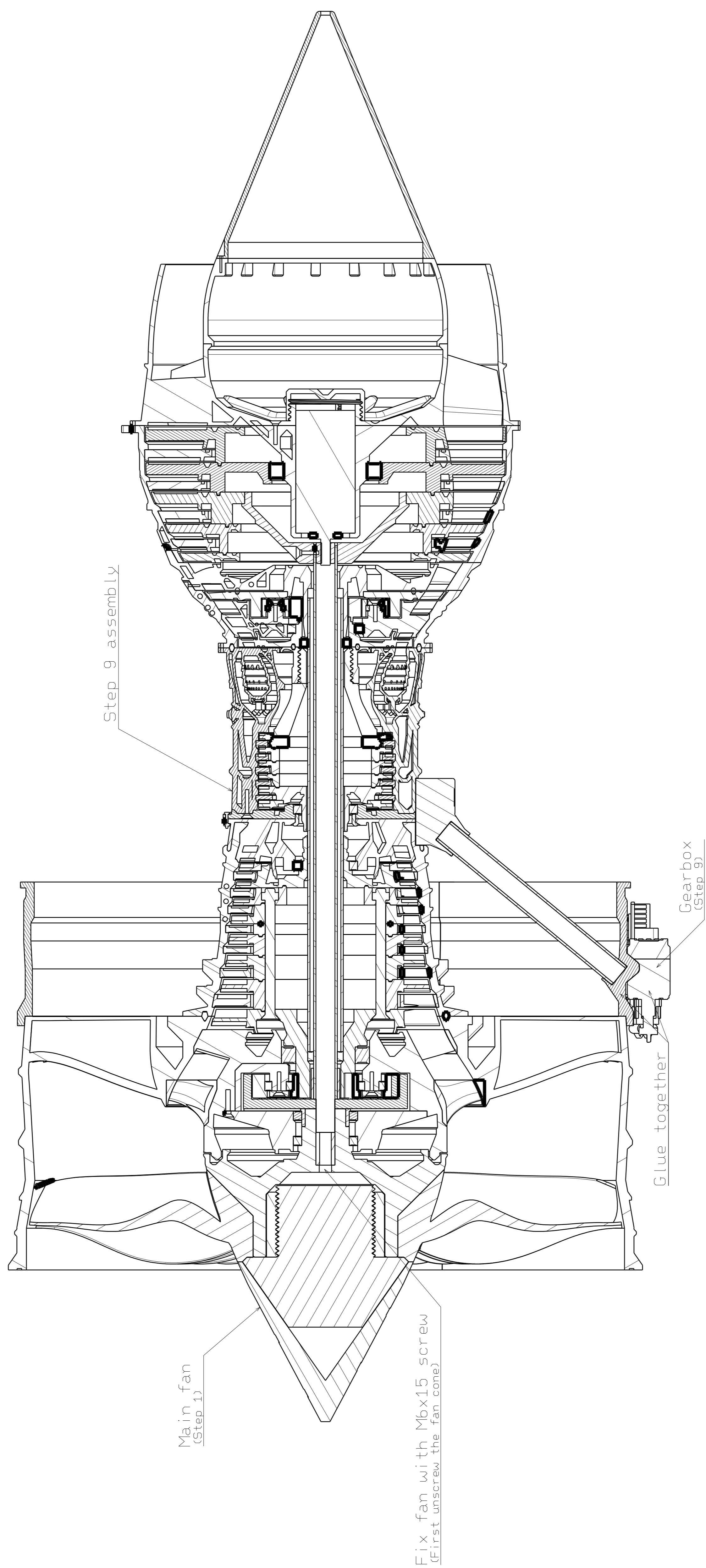
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STEP 10: Final assembly



Congratulations!
Now you have your own Trent 900 replica.

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