

How to build your robot

www.pib.rocks/build

assembly instructions for:

NECK

v2025



PRINT BUILD DEVELOP YOUR OWN ROBOT



Printable and pre-assembled parts

Pib's neck consists of **9 printable parts** and is assembled in **10 steps.**

In order to construct the neck, you will need to print the parts as seen in the table.

Please note: For better readability we use the abbreviations in the tutorial: A50 instead of A50-Neck_housing.

We provide a screwdriver shaped like a pen in the box that includes the required hexagonal head. However, using a longer one can be useful

Printable parts
A71-Inner_part
A72-Top_part
A73-Cover_neck
A74-Motor_shaft (2x)
A75-R-Neck_Right
A75-L-Neck_Left
A76-Neck_Middle
A77-Motor_Adapter_Neck



Non-printable parts

You will also need the following non-printable parts from our pib.Box Master.

If you do not have it yet, you can buy in our shop https://shop.pib.rocks.

Non-printable parts
2 x M03 Ballbearings
2 x E07 MG996R servo
2 x M18 Metal-motor-Adapter
1 x M04 Ballbearing

Non-printable parts
13 x S01 M3 nuts
8 x S03 M3 8mm screws
8 x S04 M3 10mm screws
5 x \$05 M3 12mm screws
4 x \$06 M3 16mm screws
1 x S07 M3 18mm screws
4 x \$08 M3 20mm screws
3 x \$11 M3 30 mm screws
1 x \$13 M3 40 mm screws



Printable parts - Overview











Printable parts - Overview









Build it better: our suggestion for assembling pib



We recommend **tools** for each step. These are a suggestion, you can of course also use other tools.



We have categorized each step according to its **difficulty** - from **1-5** (1 being the easiest, 5 the hardest)







We also show you which **non-printable parts** you need for each step

Step 0

Make sure all motors in this tutorial are calibrated according to tutorial "**step 1c motor calibration**"

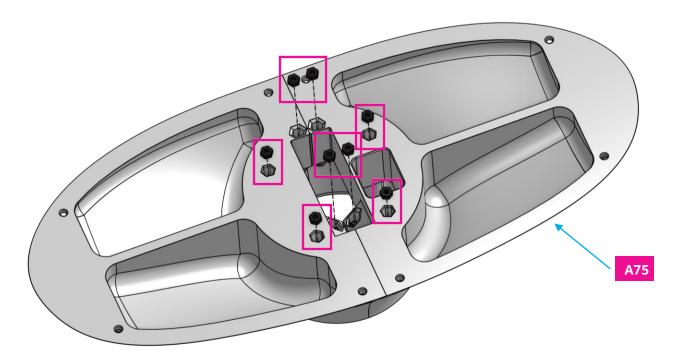








Insert **8 x nuts** in **A75** in the shown spots.





Place 1 x E07 (MG996R) in A75 and use 4 x 12mm screws to fix it.

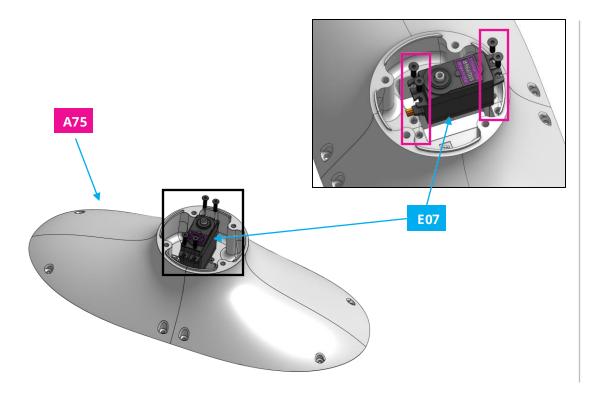
















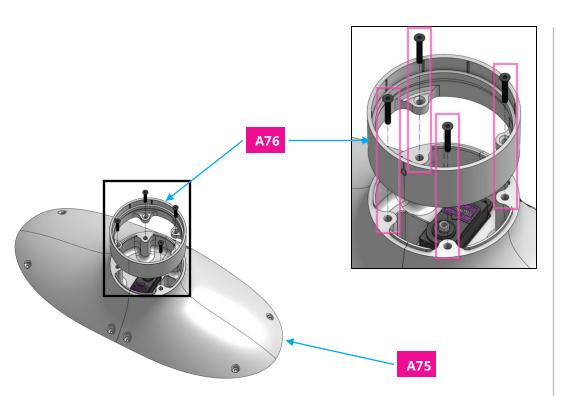








Connect A76 to A75 using 4 x M3 20mm screws.







Attach **3 x M3 nuts** and **1 x M18** to **A71**.



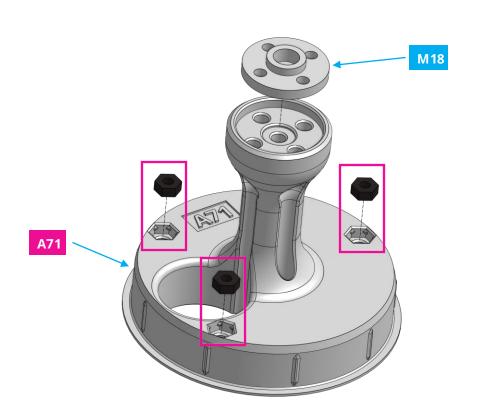














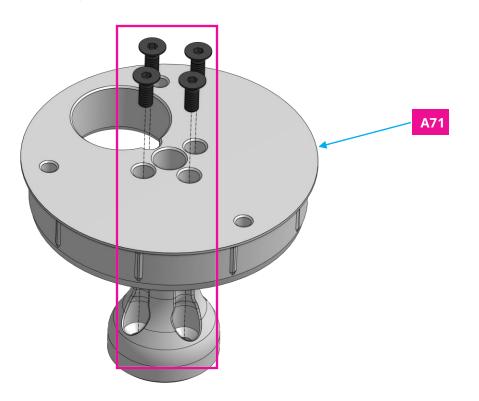


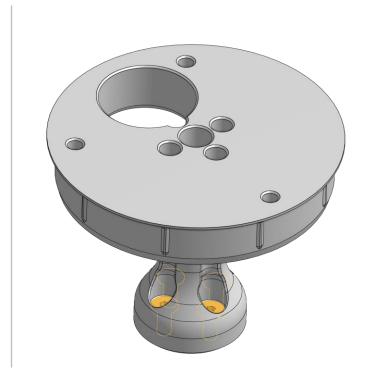






Fix M18 using 4 x M3 8mm screws.



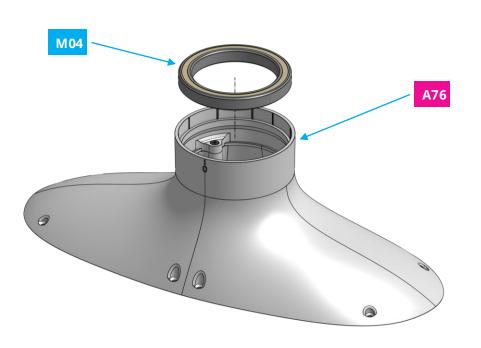








Place 1 x M04 ballbearing in the shown spot of A76.





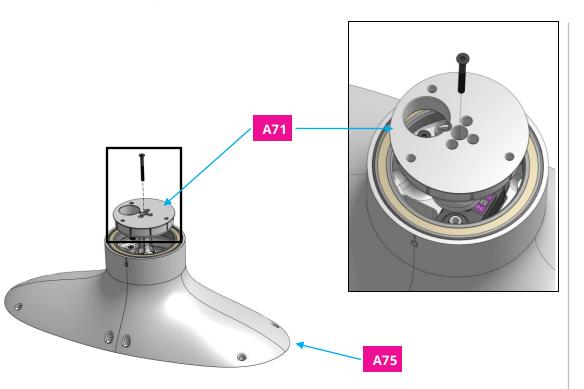








Connect A71 to A75 using 1 x M3 30mm screw.





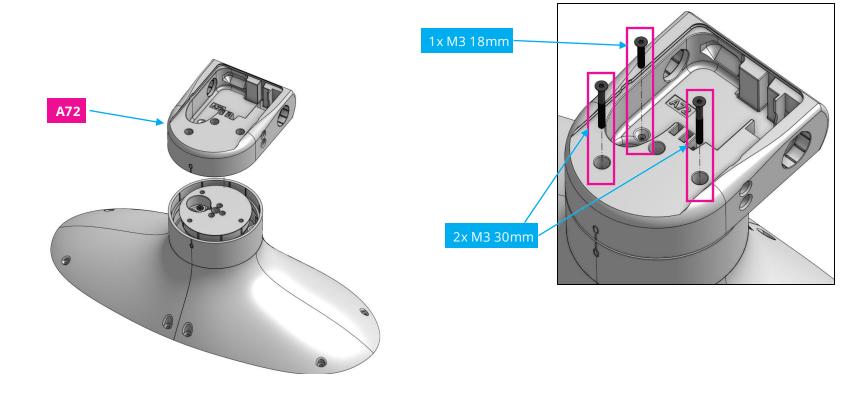








Connect A72 to the assembly using 2 x M3 30mm screw and 1 x M3 18mm screw.





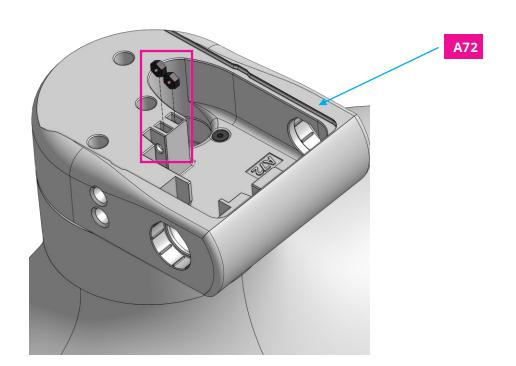
Insert 2 x M3 nuts In A72.















Step 9a

Connect E07, M18 and A77 using 4 x M3 8mm screws.



















Step 9b



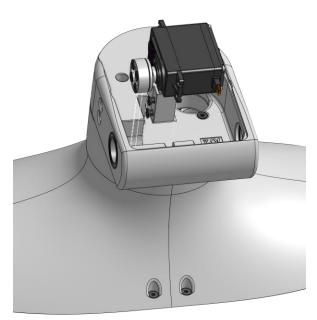


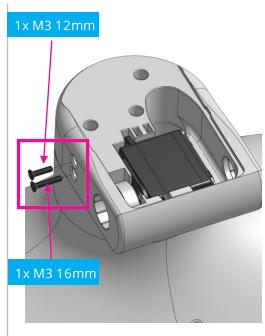


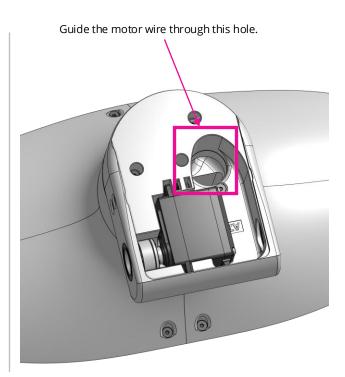




Insert E07 in A72 and fix it using 1 x M3 12mm and 1 x M3 16mm screws.







The motor cable should hang out at the bottom of **A75**.

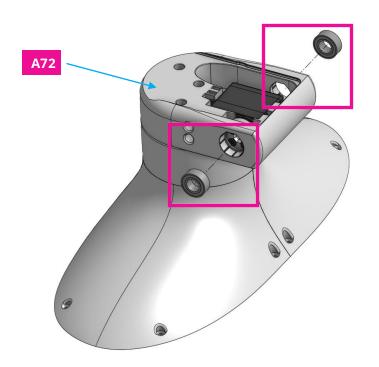
Step 10a







Insert 2 x M03 in the shown spots of A72.



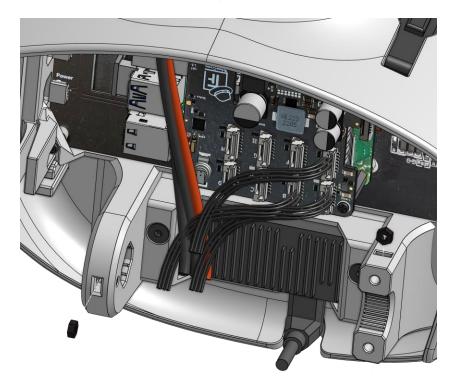


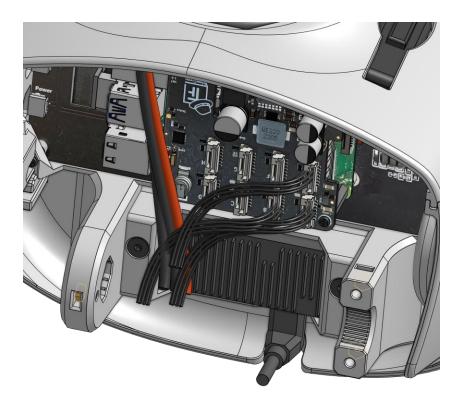


Step 10b



Insert **3 x M3 nuts** in the shown spots the head









Step 10c









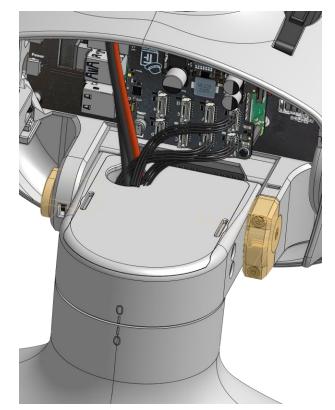




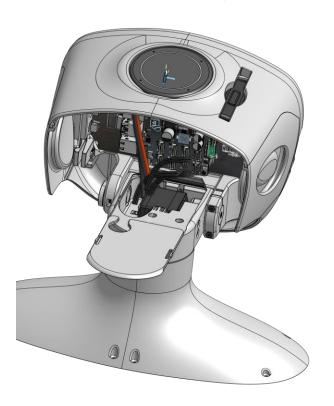
Connect head to neck using A81 and A82, 1 x M3 16mm screws and 1 x M3 40mm screws.

Then enclose **A81** with **A02**





Guide the wires from the head through the hole in **A72**, then close **A73**.

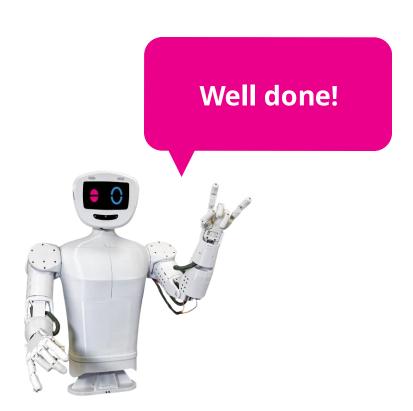






Congratulations

You did a great job, pib´s neck is assembled!







Do you need support?

Or do you need our pib.Box with all non-printable parts?
Or maybe you have some new ideas and improvements?
Please contact us.



team@pib.rocks
Send us an email.



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