



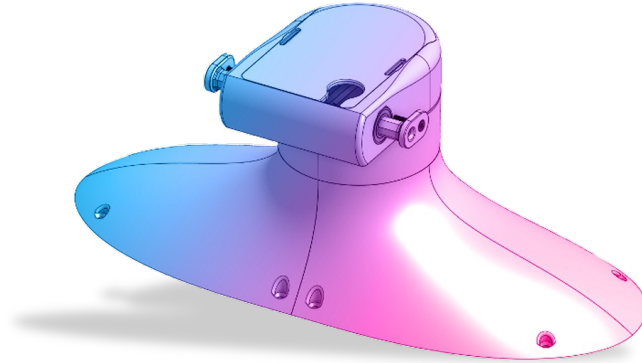
## How to build your robot

[www.pib.rocks/build](http://www.pib.rocks/build)

assembly instructions for:

# NECK

v2024



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.

### 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.

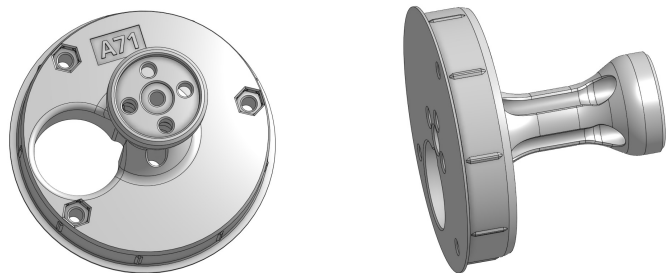
If you do not have it yet, you can buy in our shop  
<https://shop.pib.rocks>.

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

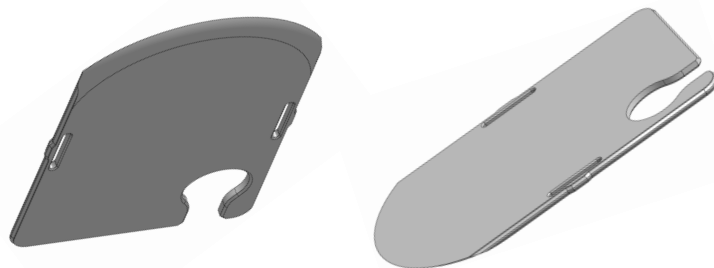
Non-printable parts
13 x <b>S01</b> M3 nuts
8 x <b>S03</b> M3 8mm screws
8 x <b>S04</b> M3 10mm screws
5 x <b>S05</b> M3 12mm screws
4 x <b>S06</b> M3 16mm screws
1 x <b>S07</b> M3 18mm screws
4 x <b>S08</b> M3 20mm screws
3 x <b>S11</b> M3 30 mm screws
1 x <b>S13</b> M3 40 mm screws

## Printable parts - Overview

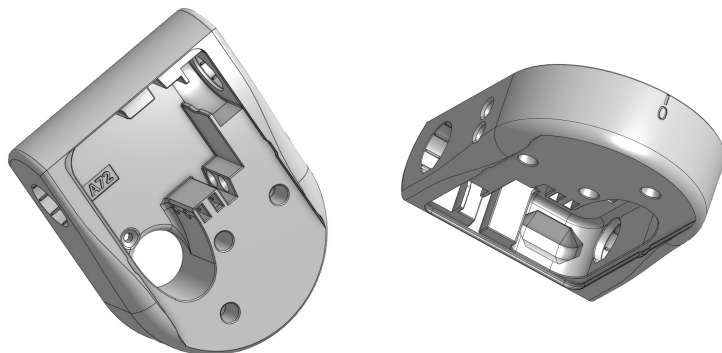
A71-Inner\_part



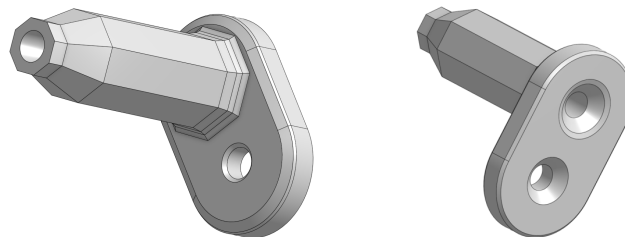
A73-Cover\_neck



A72-Top\_part



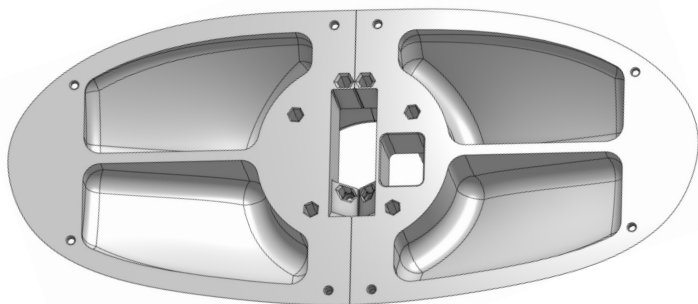
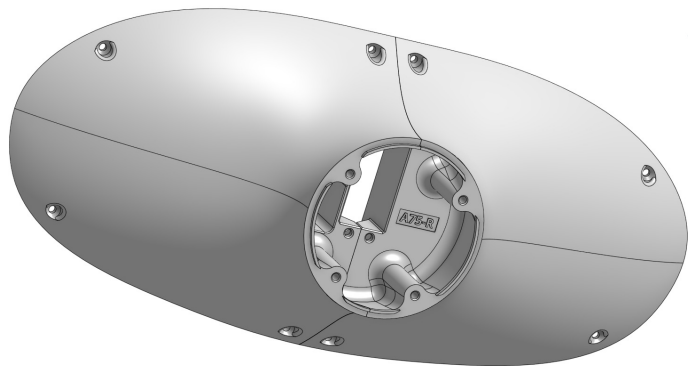
A74-Motor-shaft



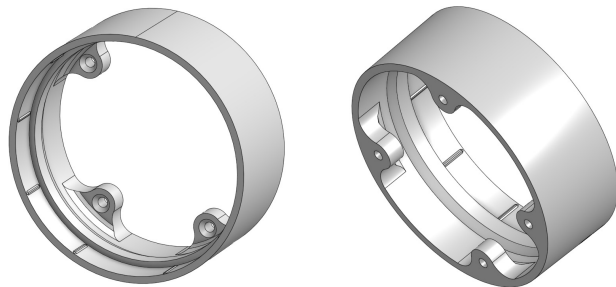


## Printable parts - Overview

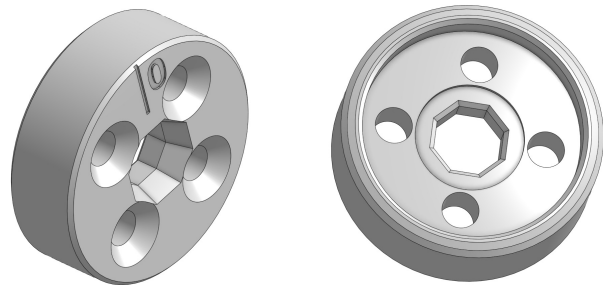
A75-Neck\_left/right



A76-Neck\_middle



A77-Motor\_adapter\_neck



## 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.



1-5

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 1

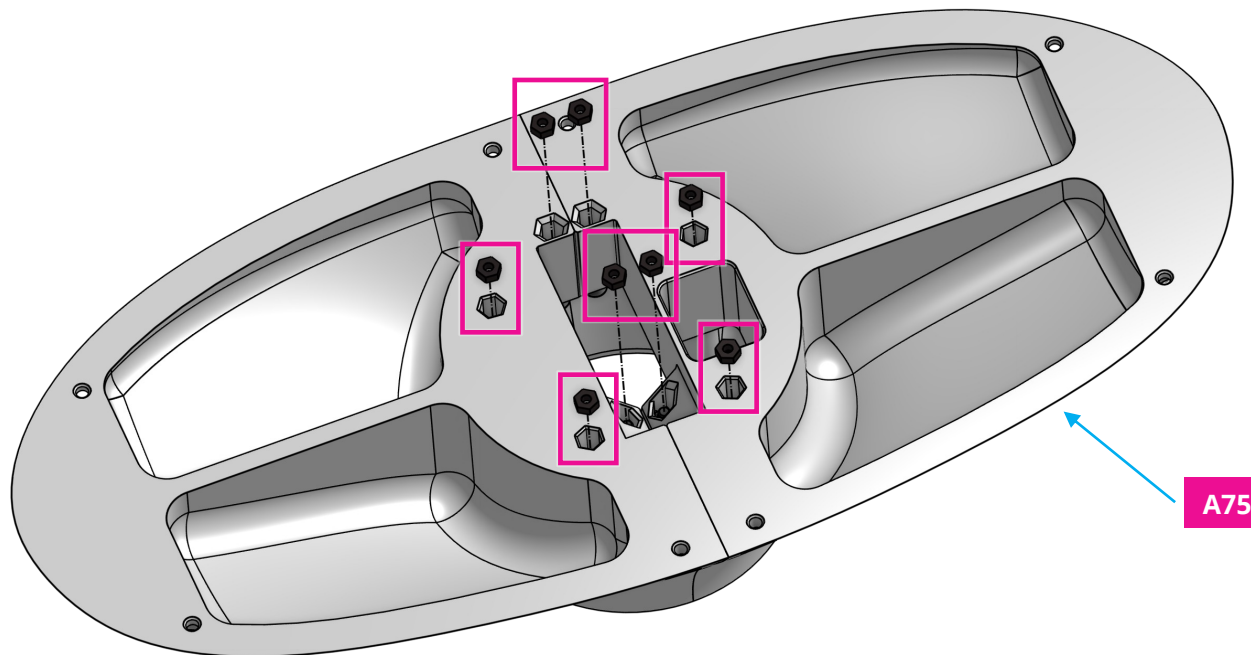
Insert **8 x nuts** in **A75** in the shown spots.



1



8x



## Step 2

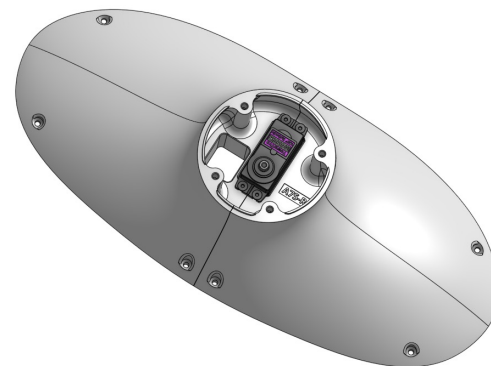
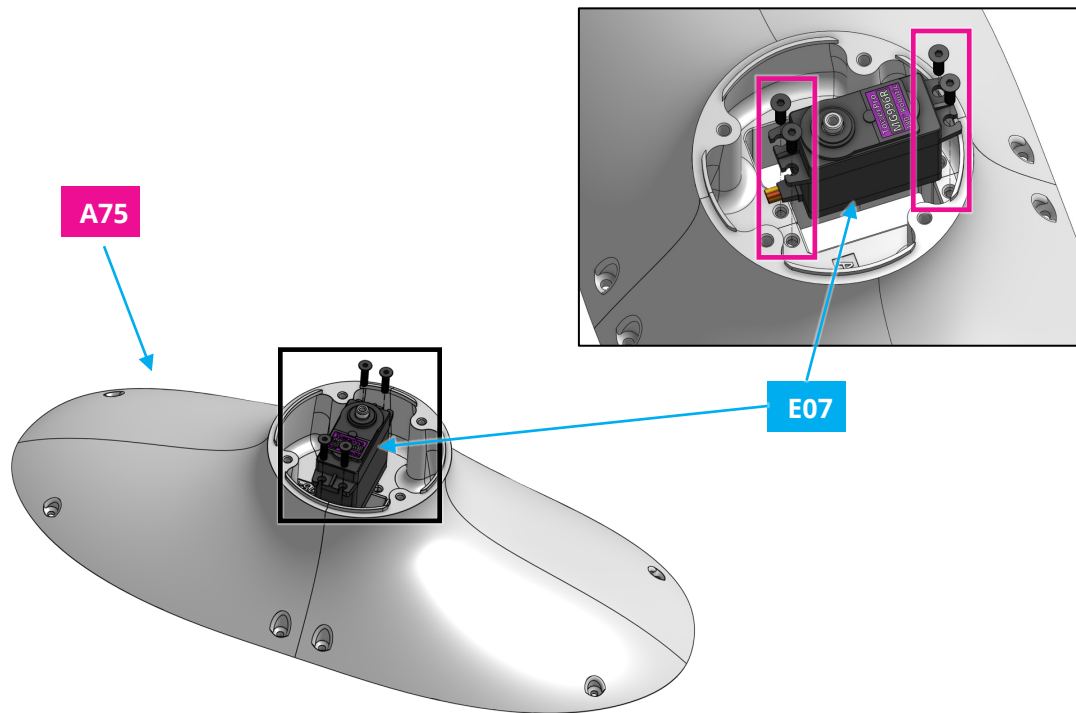
Place **1 x E07** (MG996R) in **A75** and use **4 x 12mm screws** to fix it.



4x



1x

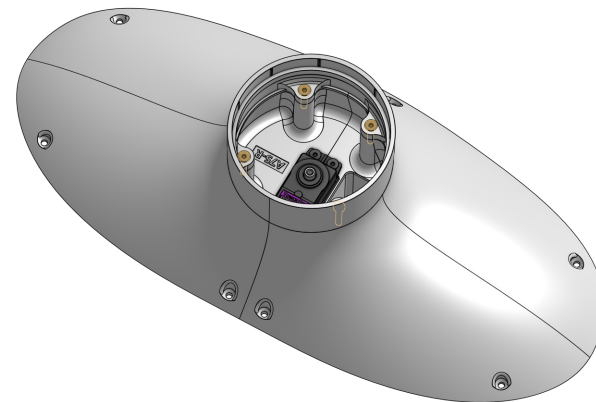
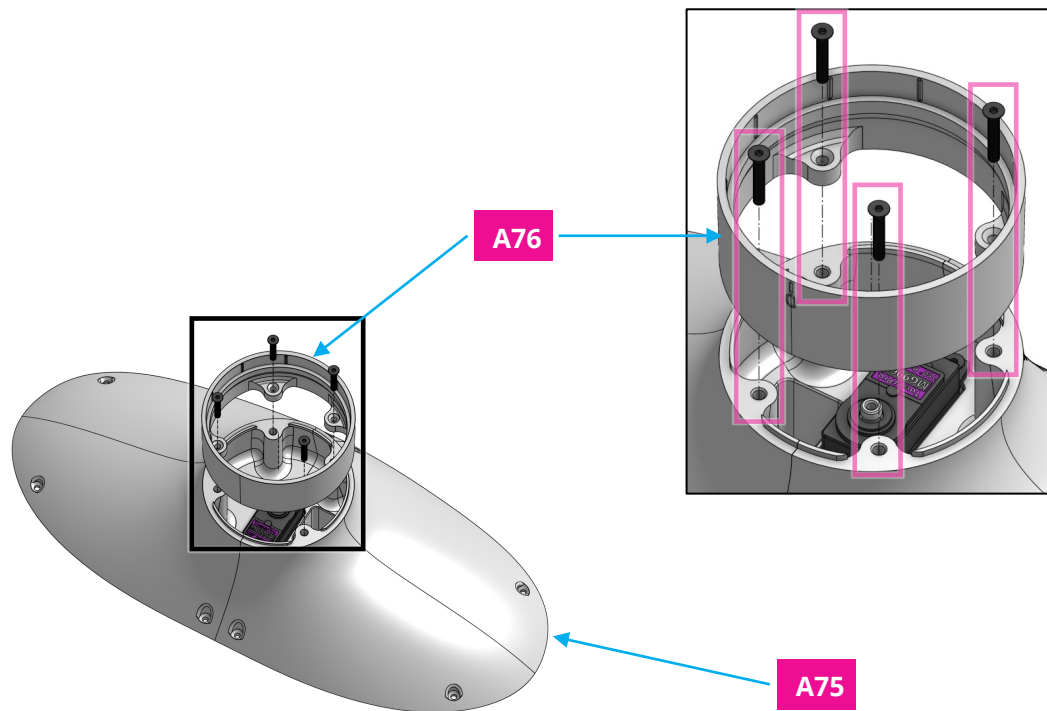


### Step 3

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



4x



## Step 4a

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



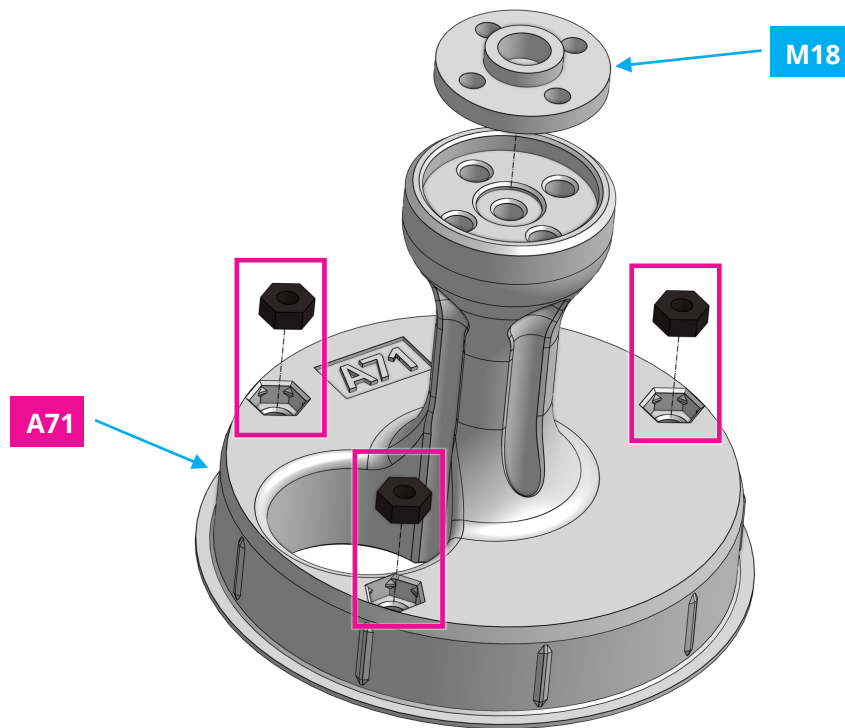
1



1x

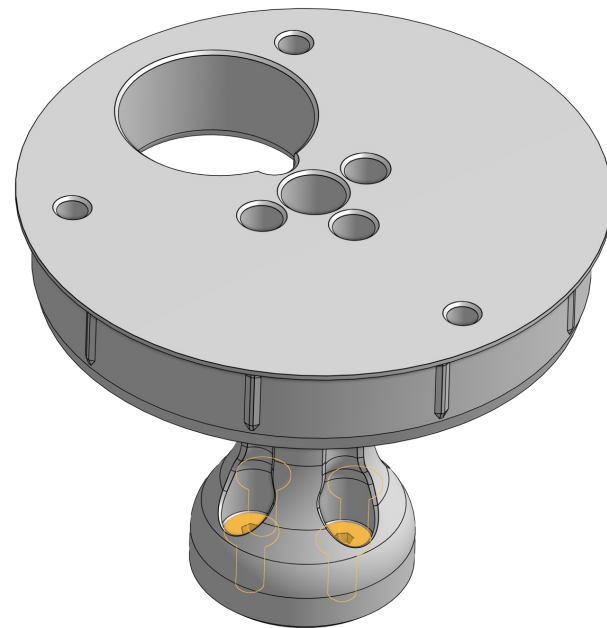
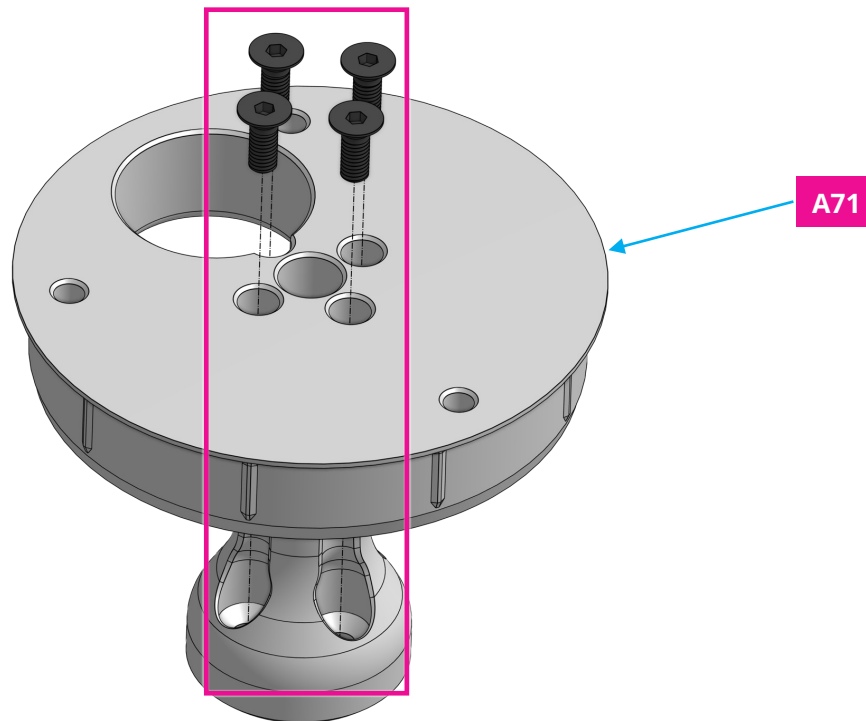


3x



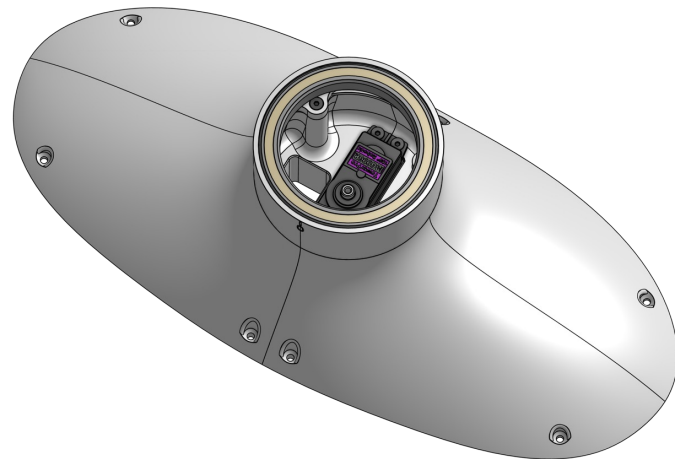
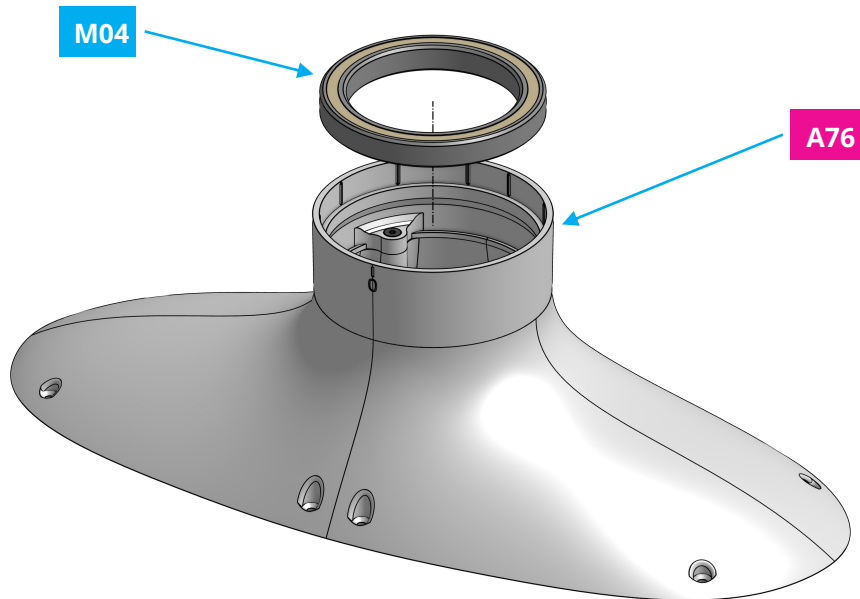
## Step 4b

Fix **M18** using **4 x M3 8mm screws**.



## Step 5

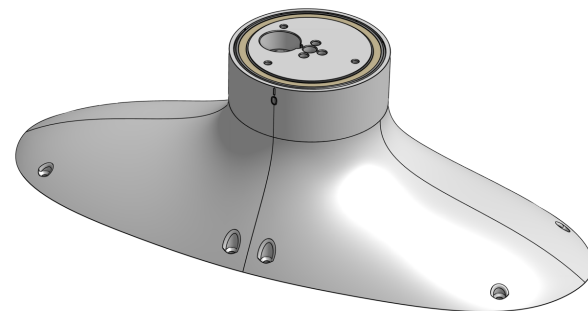
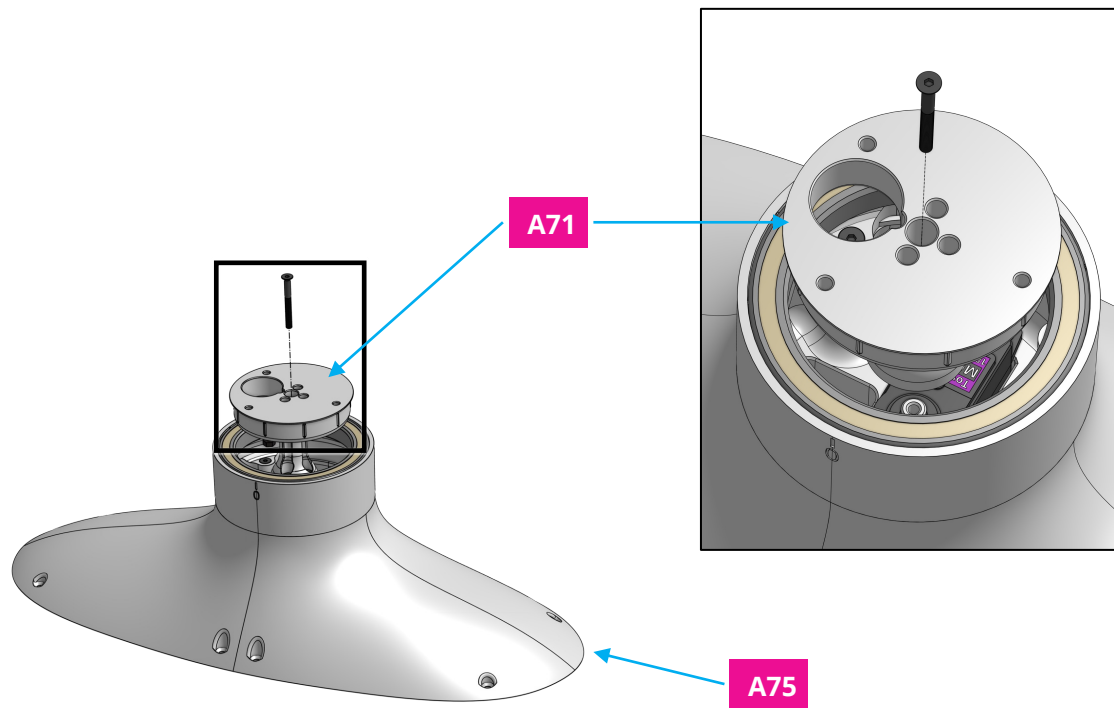
Place **1 x M04 ballbearing** in the shown spot of **A76**.





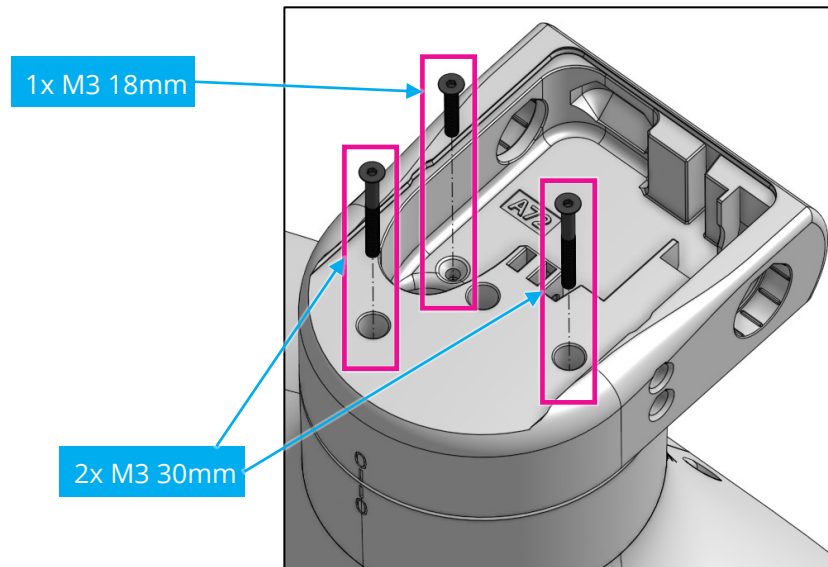
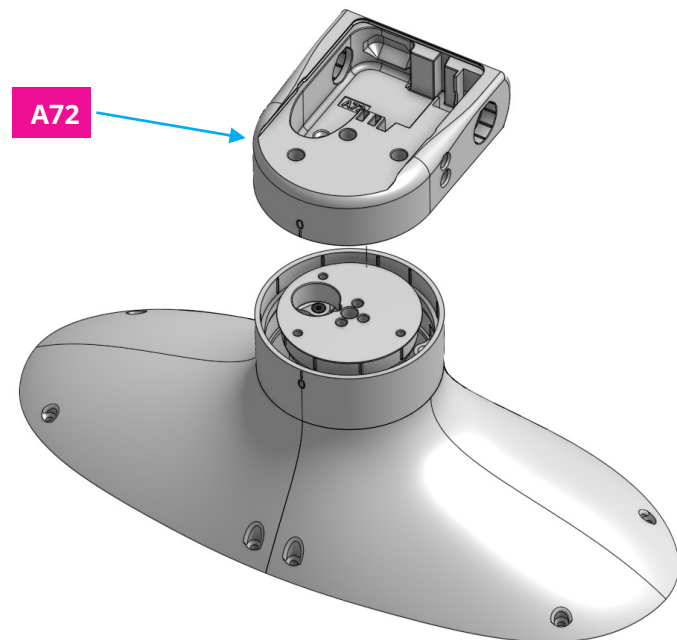
## Step 6

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



## Step 7

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



## Step 8

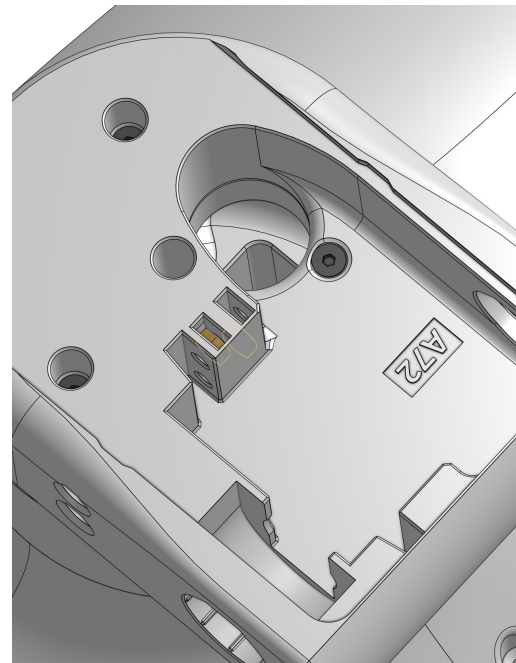
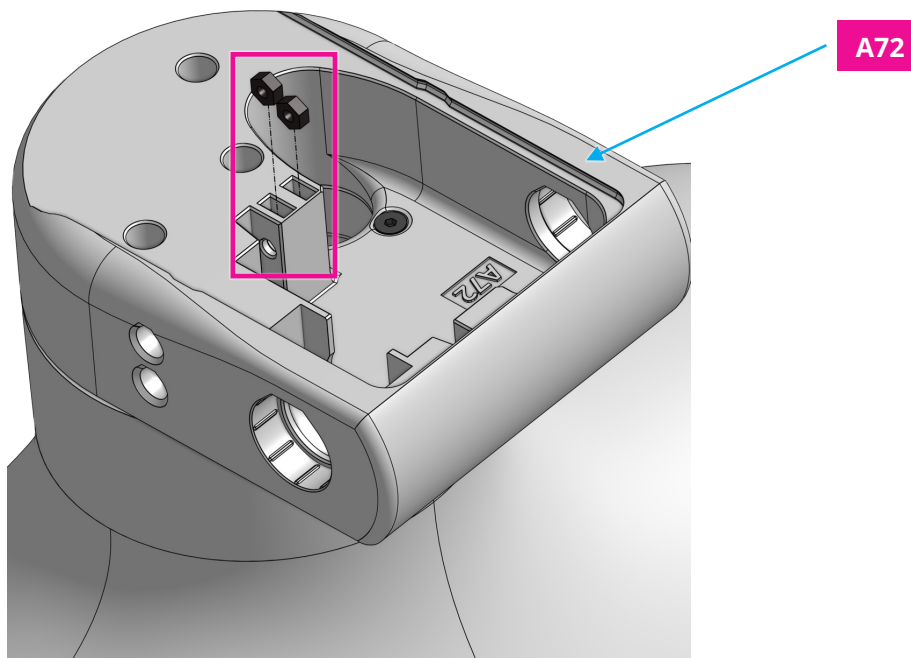
Insert **2 x M3 nuts** In **A72**.



1



2x



## Step 9a

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



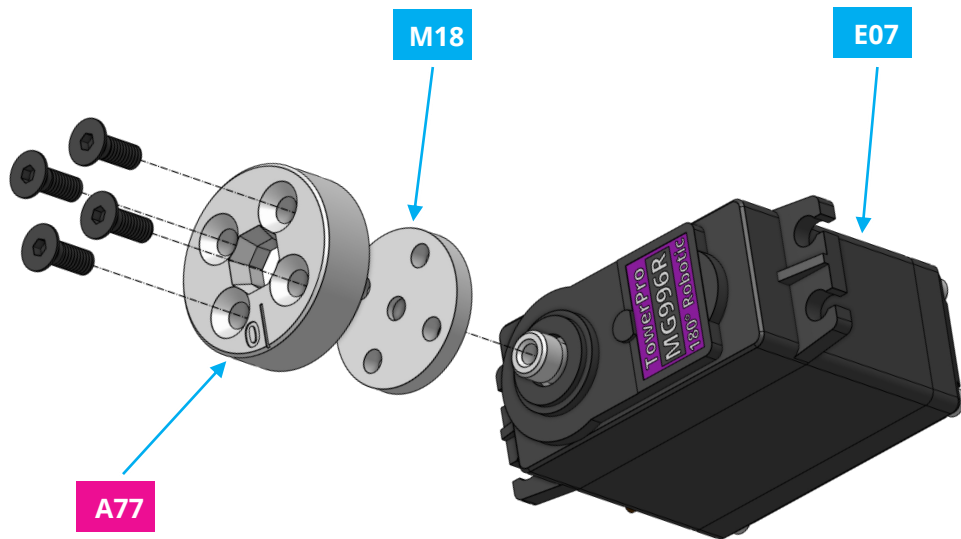
1x



1x

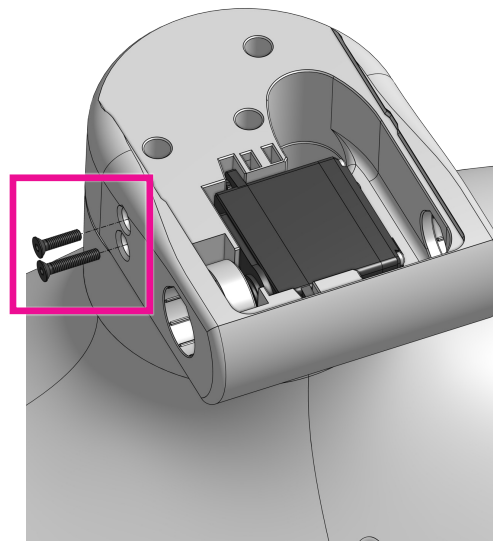
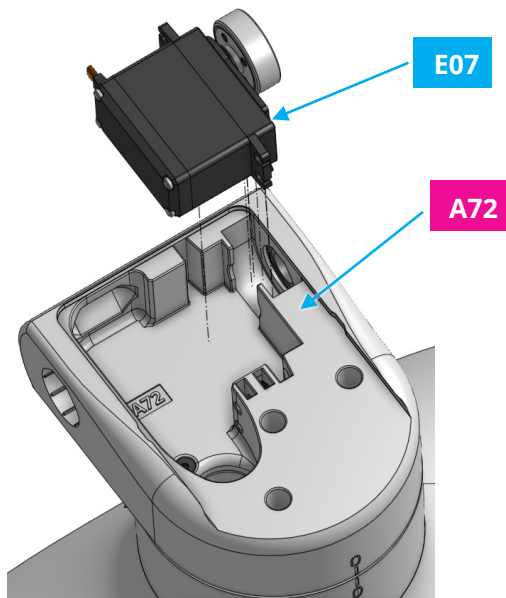


4x

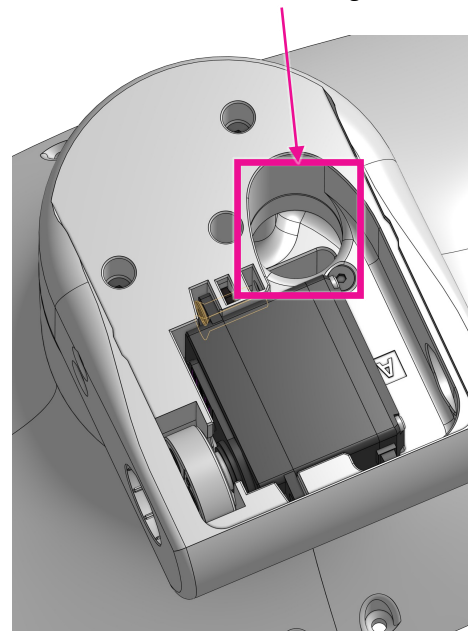


## Step 9b

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



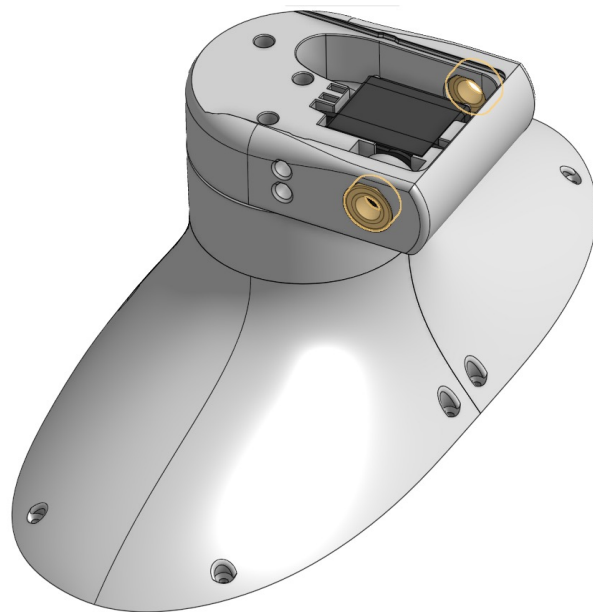
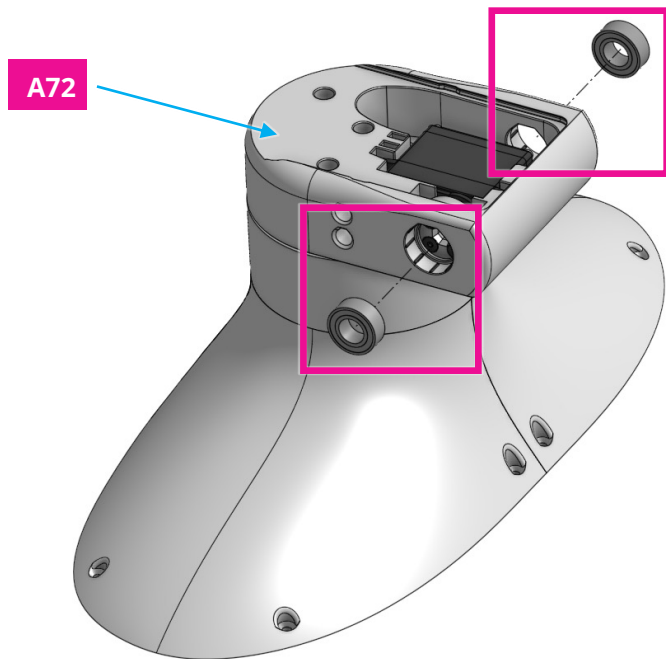
Guide the motor wire through this hole.



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

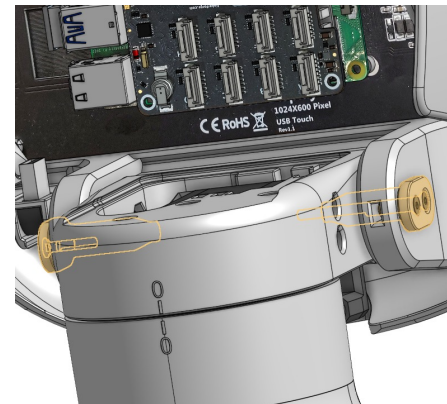
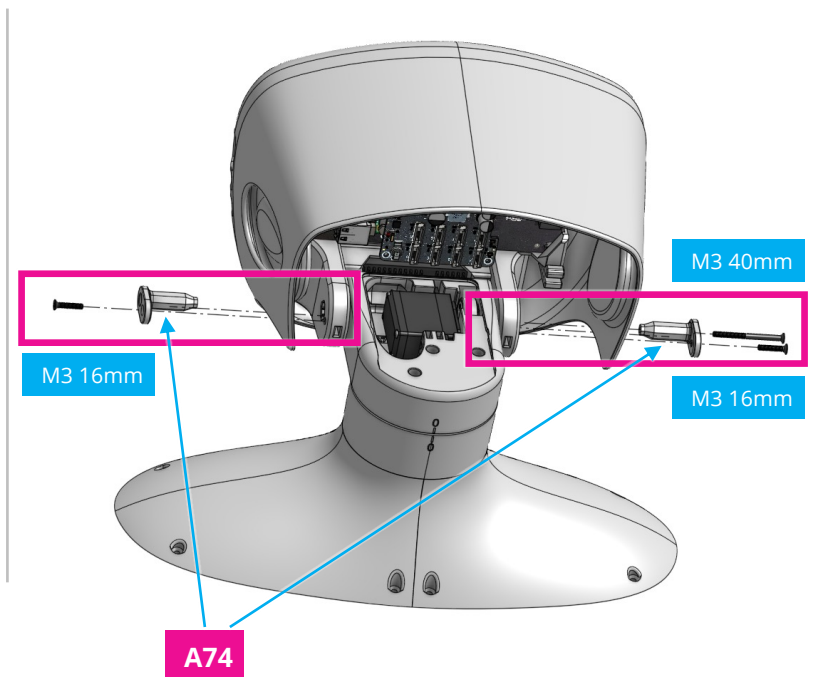
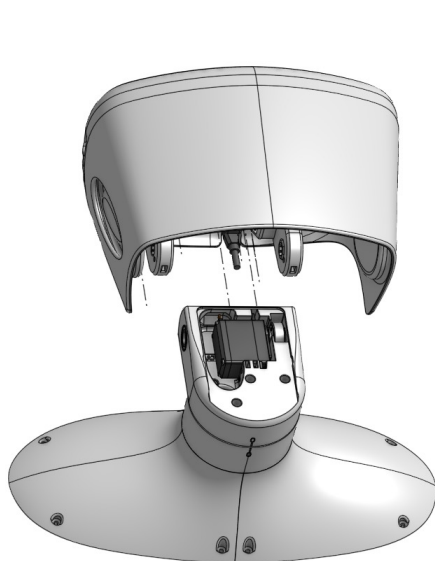
Connect head to neck using **2 x A74**, **2 x M3 16mm screws** and **1 x M3 40mm screws**.



2x

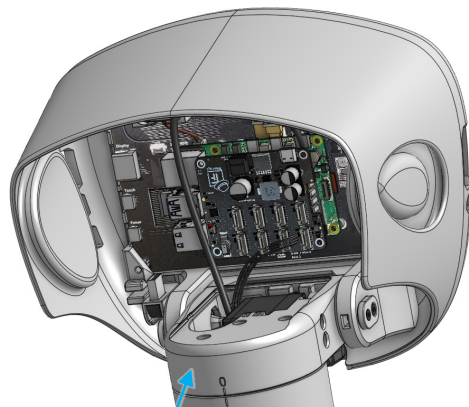


1x



## Step 10c

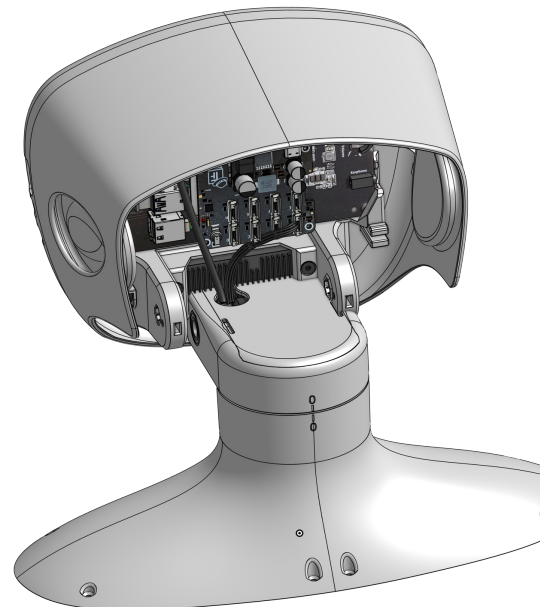
Guide the wires from the head through the hole in **A72**, then close **A73**.



A72



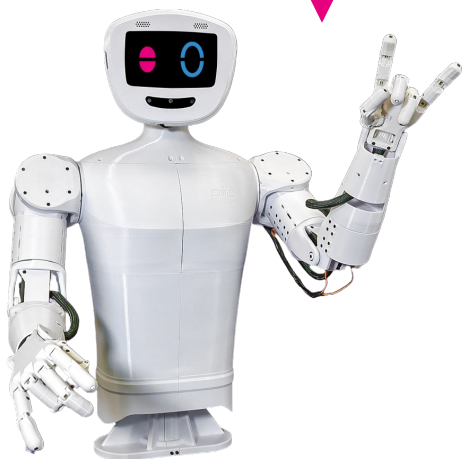
A73





## Congratulations

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



Well done!



## 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.



**discord.com/invite/GRdpyeDu7P**

Join us on Discord.



**shop.pib.rocks**

Order non-printable parts for pib.