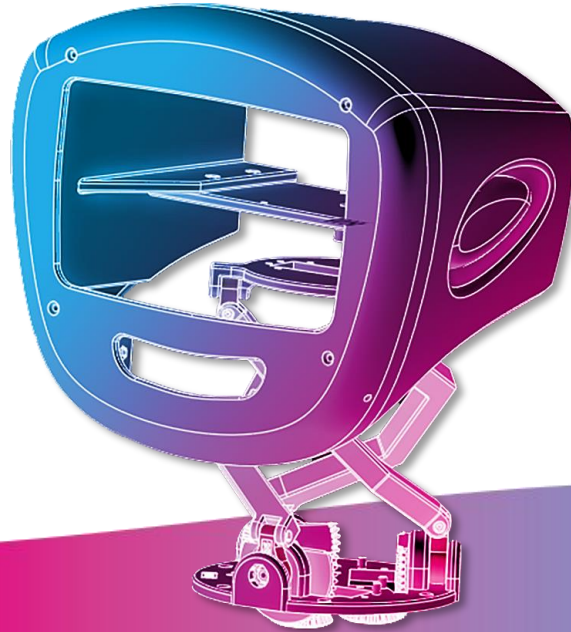# pib

How to build your robot

www.pib.rocks/build

assembly instructions for:
HEAD

You
Print
Build
Develop

your own robot!

Printable parts

Pib´s head consists of **3 printable parts -** and the assembled parts from the neck tutorial - and is assembled in **xx steps.**

In order to construct the head, you will need to print the parts as seen in the table and also first assemble the neck part.

Please note: For better readability we use the abbreviations in the tutorial: A01 instead of A01-Face.

Printable parts
A01-Face
A02-Head_board_mount
A03-Face_Plate
A14-Neck_ballbearing_holder
4 x **A15**-Neck_ballbearing_holder_leg

Non-printable parts

You will also need the following non-printable parts from our pib.Box Master.
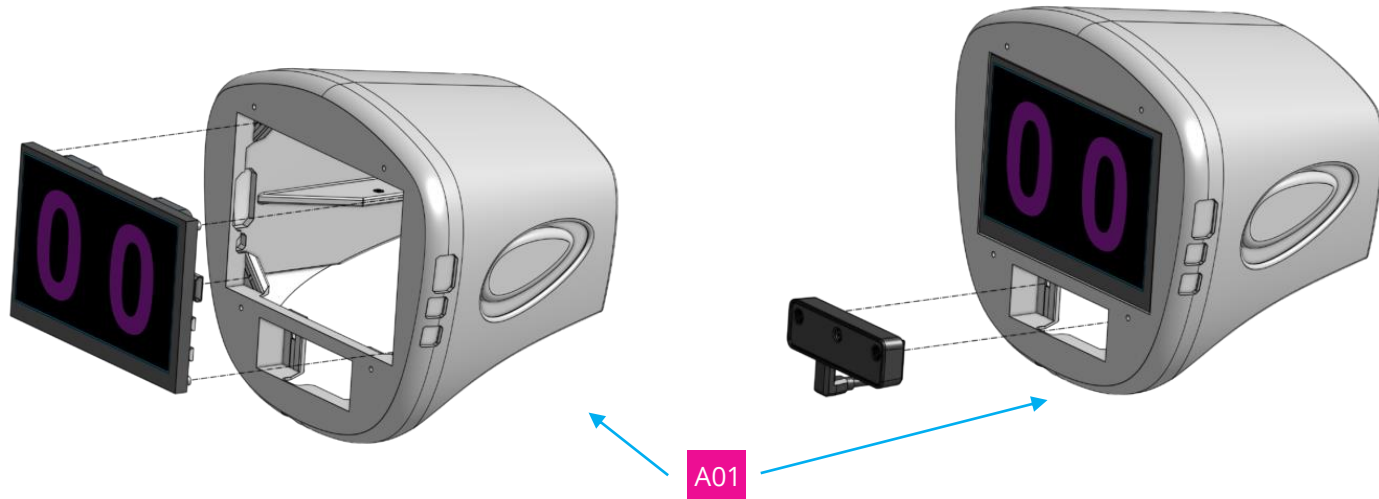
If you do not have it yet, you can buy in our shop https://shop.pib.rocks

Non-printable parts
4 x **S04** 10mm screws
6 x **S05** 12mm screws
4 x **S06** 16mm screws
S08 20mm screws

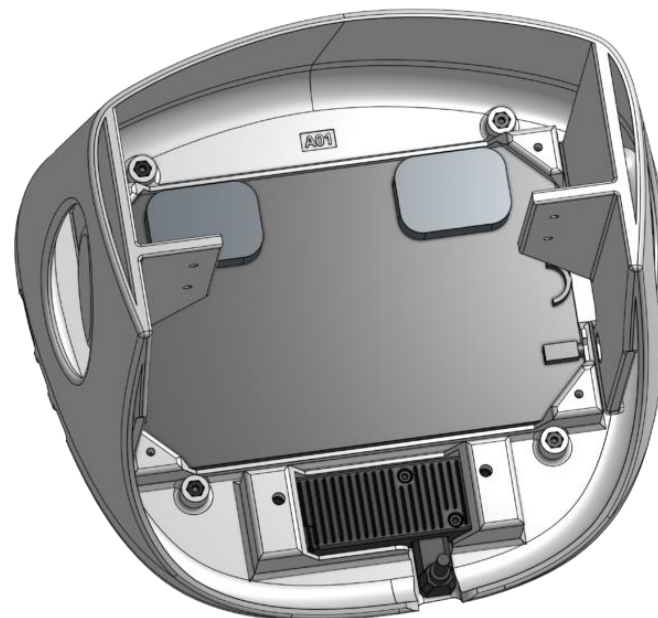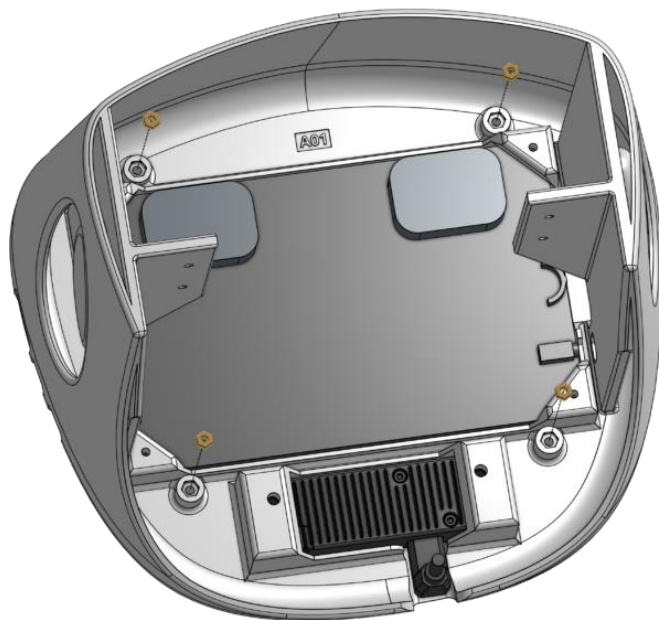| Non-printable parts |
| --- |
| **E01** Raspberry Pi |
| **E02** TinkerForge HAT |
| **E04** OAK D-Lite Camera |
| **E05** LCD display |
| 4 x **M13** Distancer |
| 4 x **M14** Distancer_2 |
| **M03** Ballbearing |
| 22 x **S01** nuts |
| 4 x **S10** 25mm screws |
| 4 x **S11** 30mm screws |

Step 1

Insert the LCD display and the OAK-D Lite camera through the shown spots in A01.
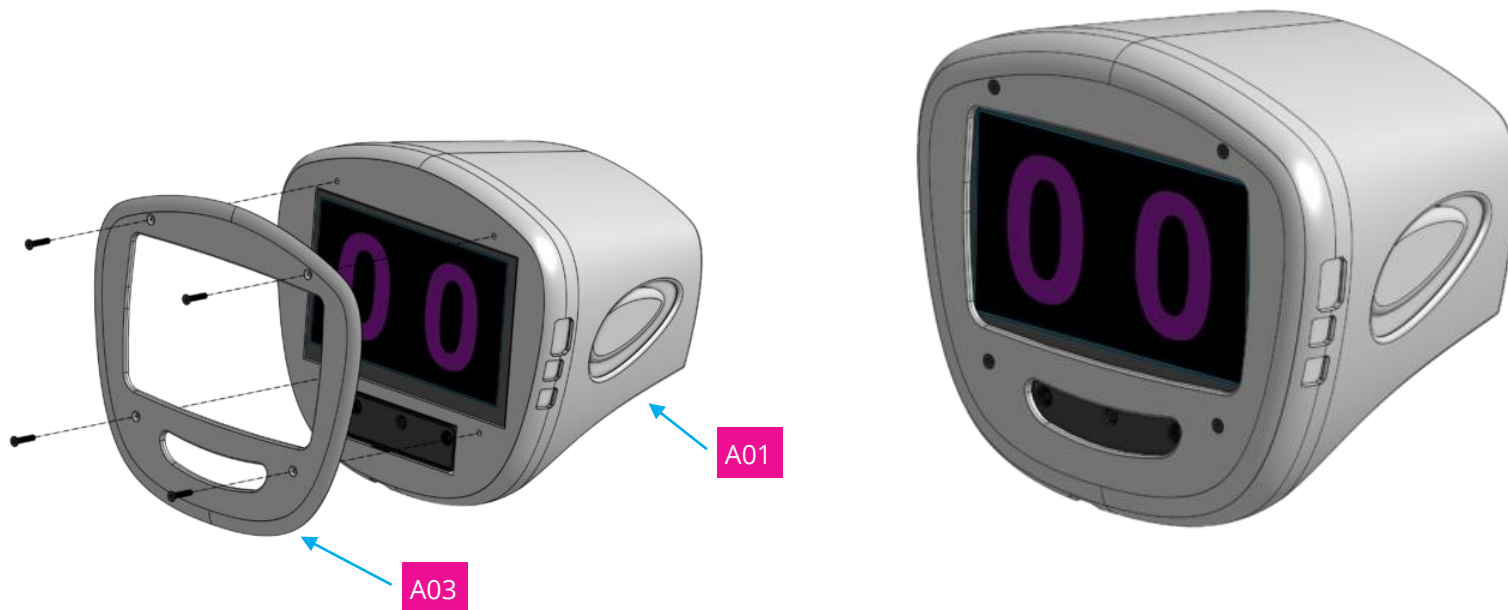

A01

Step 2

Place 4 x nuts in the shown spots in A01.

Step 3

Attach A03 to A01 using 4 x 16mm screws.
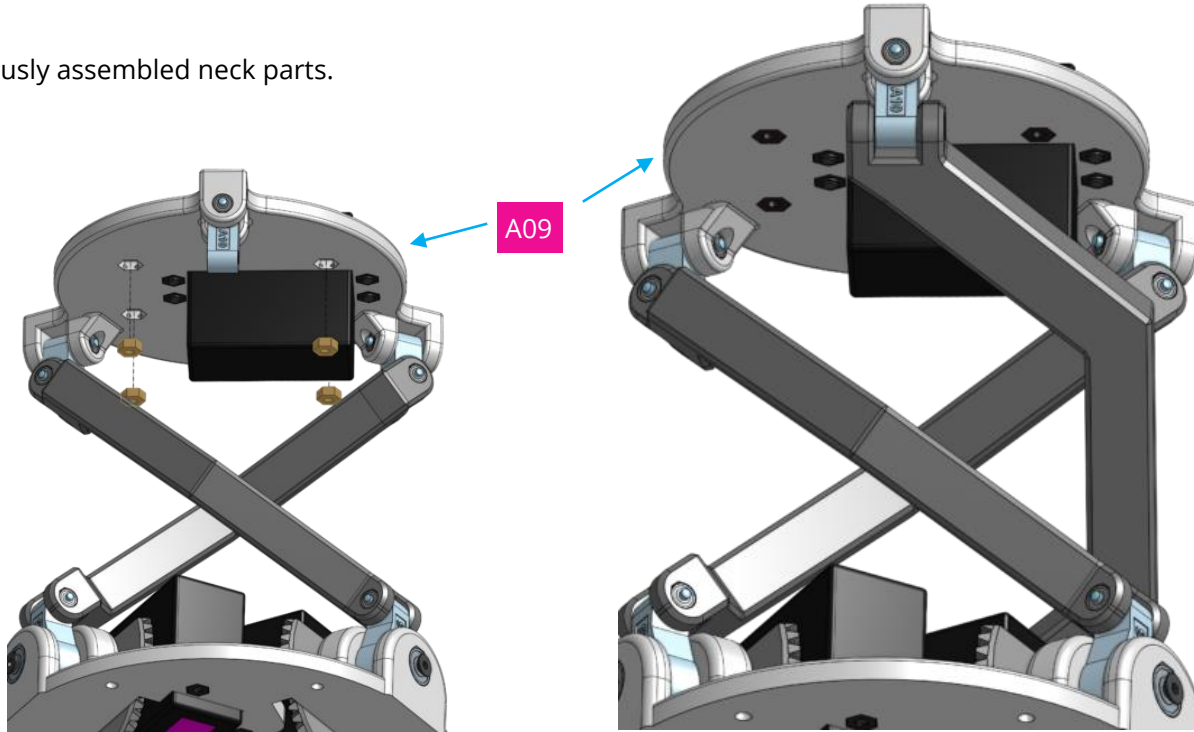

A01

A03

Step 4

Now you will need your previously assembled neck parts.

Place 4 x nuts in A09.

A09

Step 5
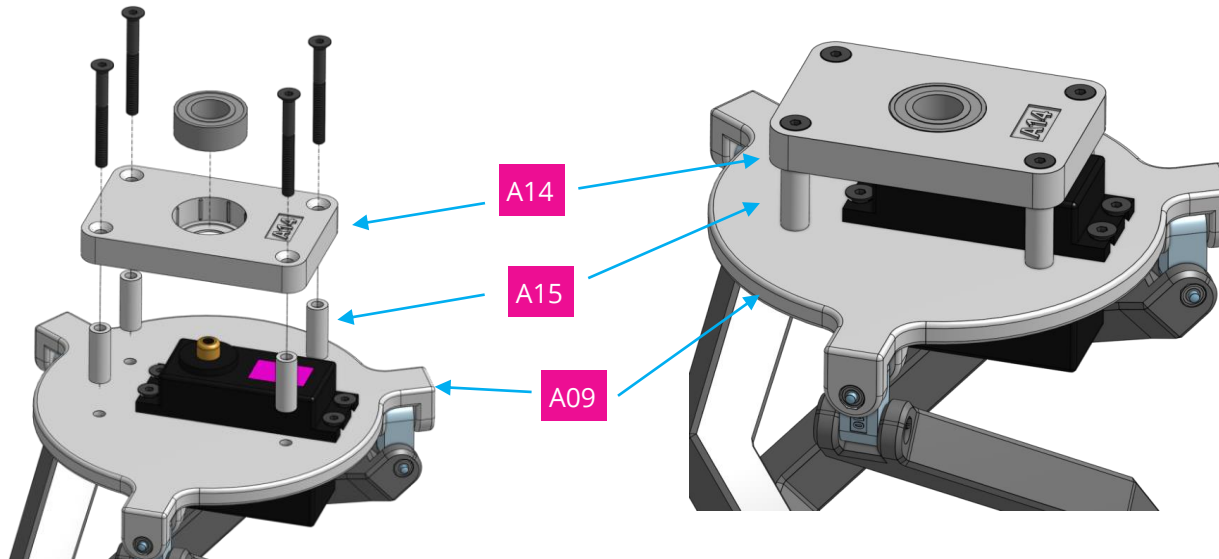
Place 4 x nuts in the shown places of A02.
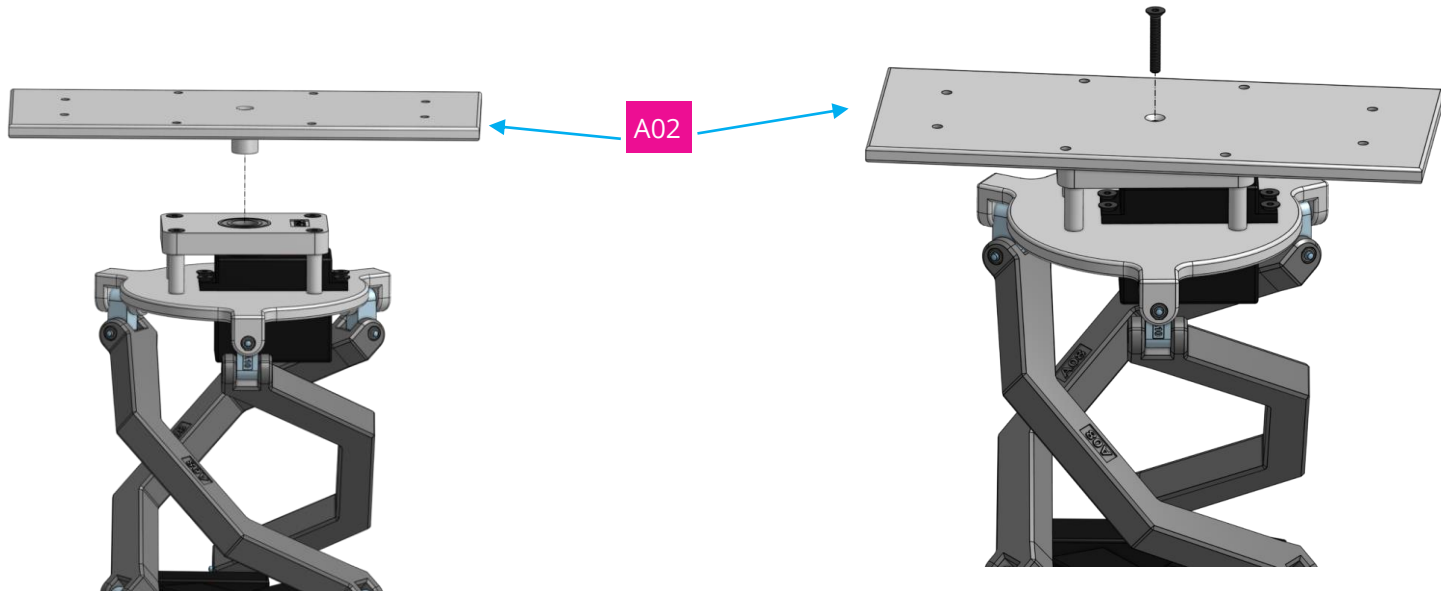

View from below

Step 6a

Connect A02 to A09 using A14 and 4 x A15 by following the shown sequence. You will need 4 x 30mm screws to connect the parts. Additionally, add 1 x M03 ballbearing in the shown spot.
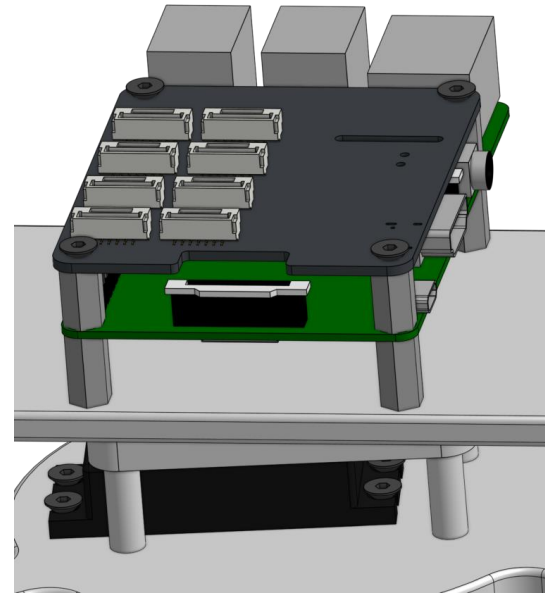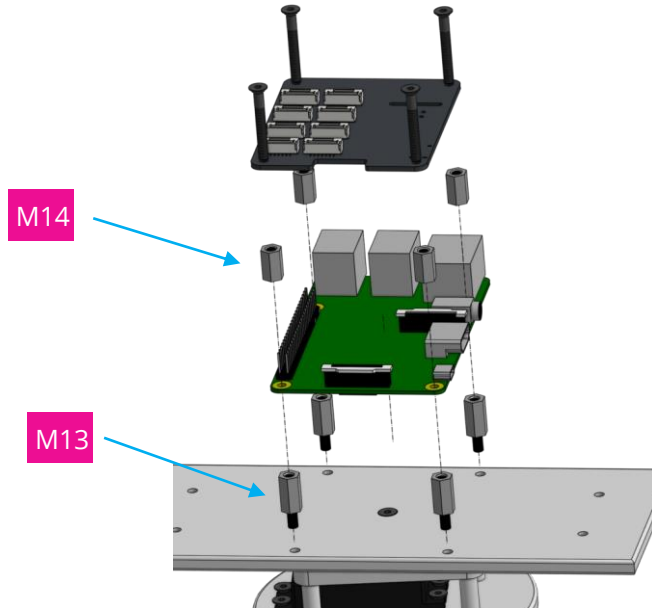
Step 6b

Connect A02 to A09 using A14 and 4 x A15 by following the shown sequence. Use 1 x 20mm screw to connect A02 to the assembly
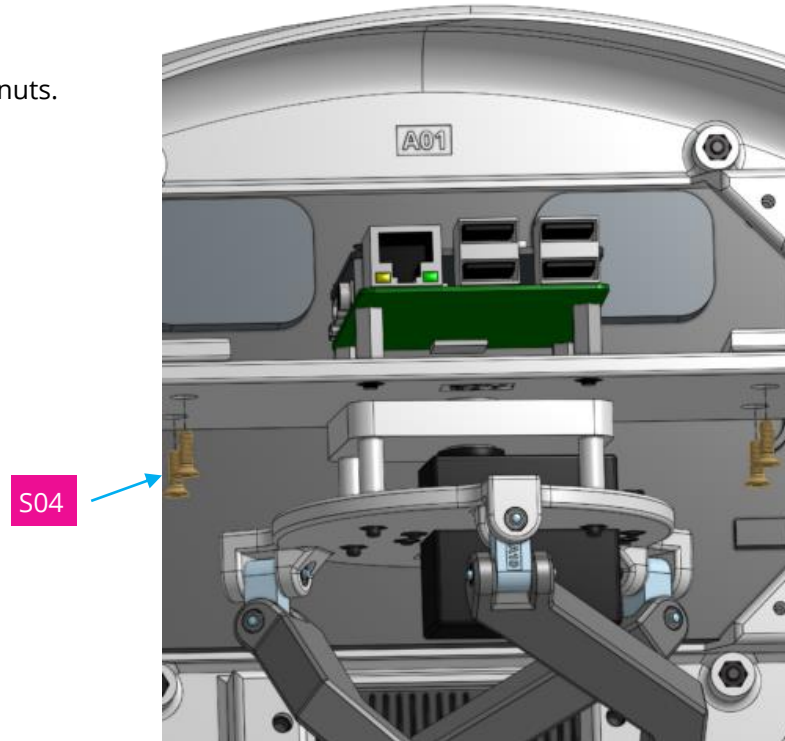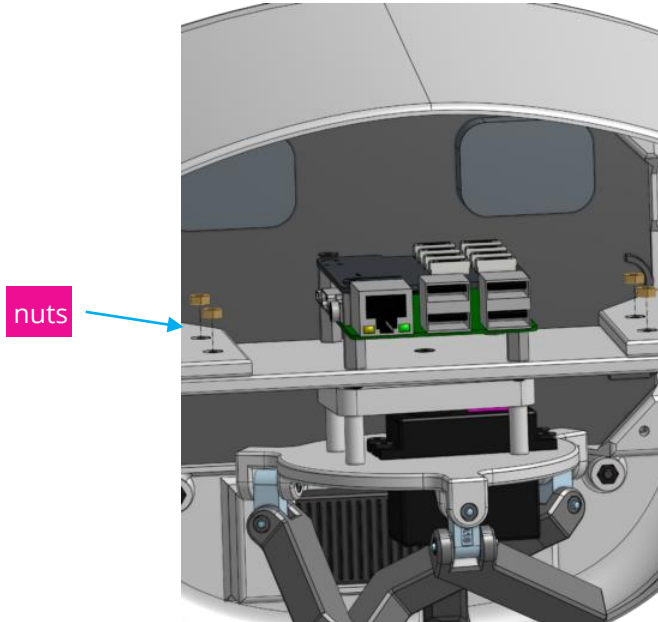

A02

Step 7

Connect Raspberry Pi and TinkerForge Hat to A02 using 4 x M13 Distancer, 4 x M14 Distancer and 4 x 25mm screws.
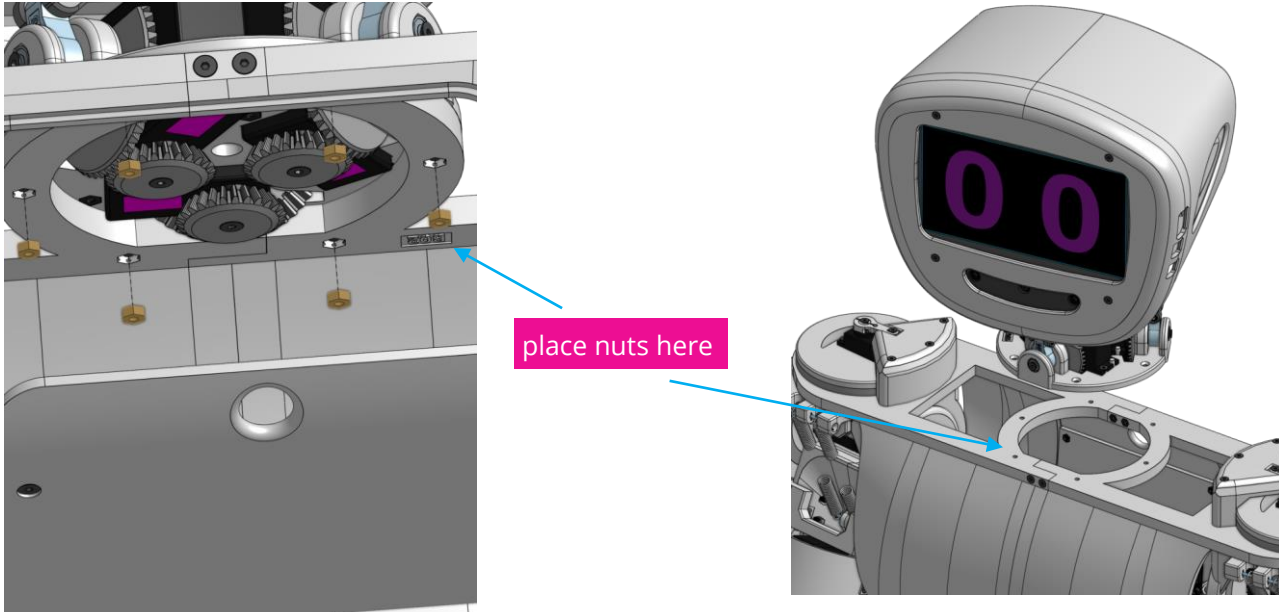
M14

M13

Step 8

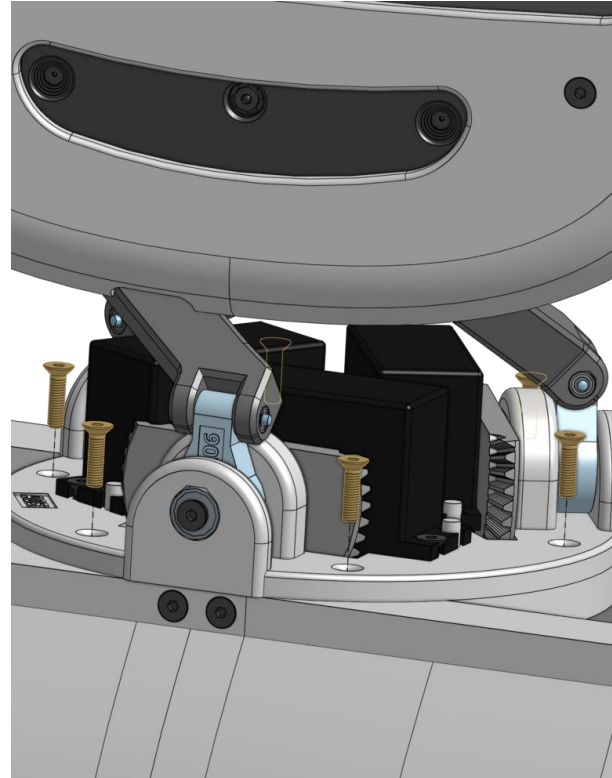Connect face assembly to neck using 4 x 10mm screws and 4 x nuts.

nuts

S04

Step 9a

Connect the head-neck-assembly to the assembled pib from previous tutorials using 6 x 12mm screws and 6 x nuts.
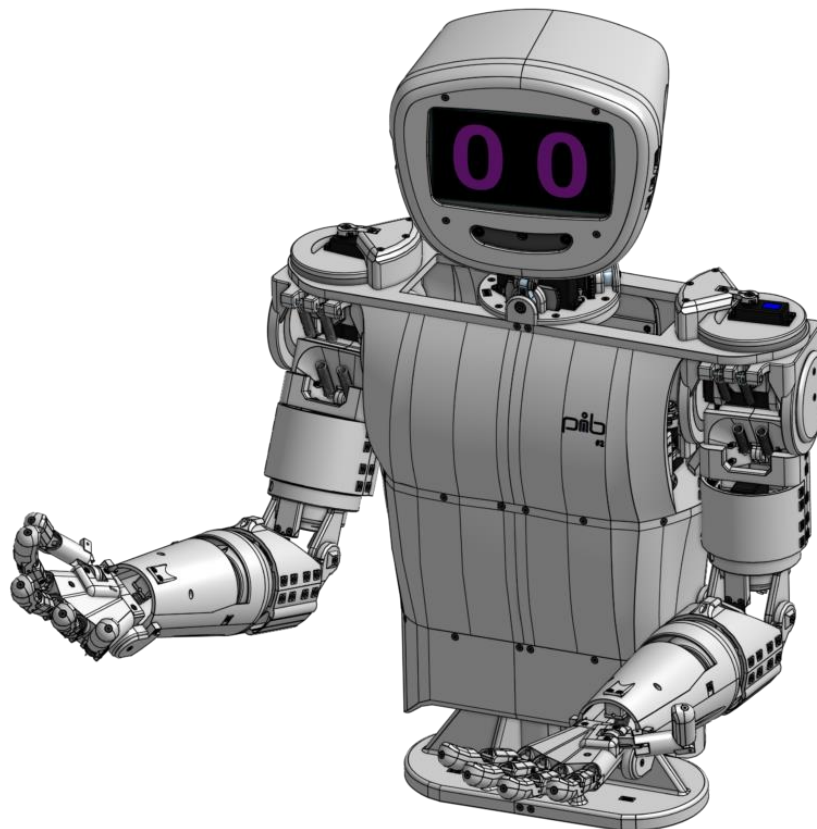

place nuts here

Step 9b

Connect the head-neck-assembly to the assembled pib from previous tutorials using 6 x 12mm screws and 6 x nuts.

Congratulations

You did a great job, your pib 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.

discord.com/invite/GRdpyeDu7P
Join us on Discord.

shop.pib.rocks
Order non-printable parts for pib.