

How to build your robot

www.pib.rocks/build

assembly instructions for:

Shoulder vertical

pib#4







Printable and pre-assembled parts

Pib´s shoulder consists of **5 printable parts** and is assembled in **7 steps.**

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

Please note: For better readability we use the abbreviations in the tutorial: C08 instead of C08-Central_rotator_bracket.

Printable parts
C60-Flange_Inner_Shoulder
C61-Motor_Bracker_Inner_Shoulder
C62-Ringflange_Inner_Shoulder
C63-Motor_Axis_Inner_Shoulder
C64-Motor Axis Cap Inner Shoulder



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 5 x S01 M3 nuts 13 x S13 M3 40mm screws 1 x E15 DS5180SSG Servo 1 x M17 Motor_clamp-18T 1 x M04 Big sized ballbearings (60 x 78 x 10mm)



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

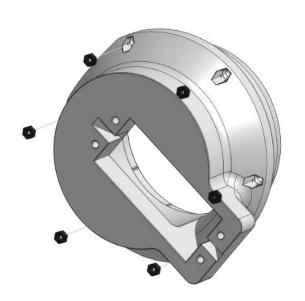


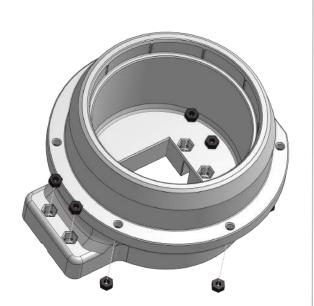


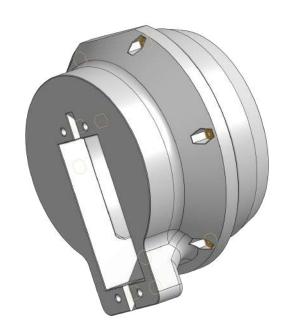






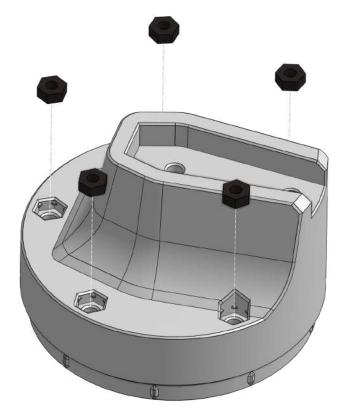






Step 2

Insert 5 x M3 nuts in C63.



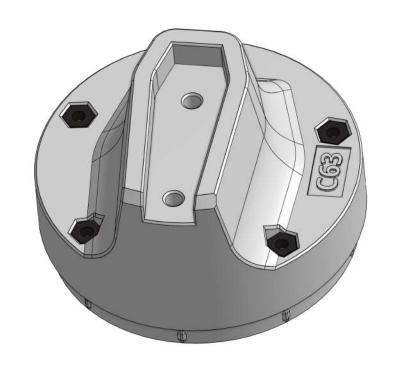








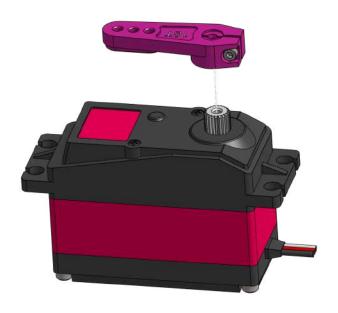


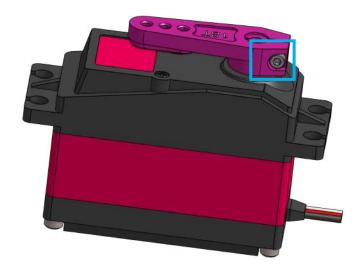






Attach **M17** to **E15** and tighten the connection using the shown screw.





Please revert back to step 0 and calibrate the motor if it was not calibrated

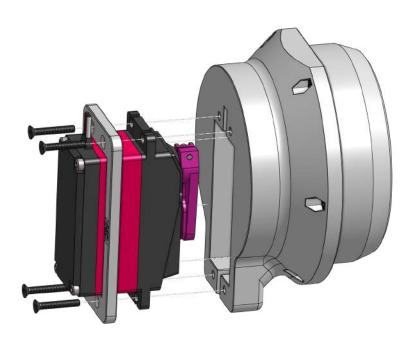








Attach **E15** to **C61** using **C60** and $4 \times M3 \times 20 mm$ screws.





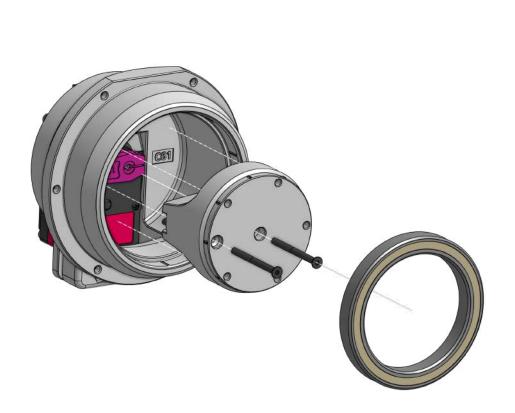


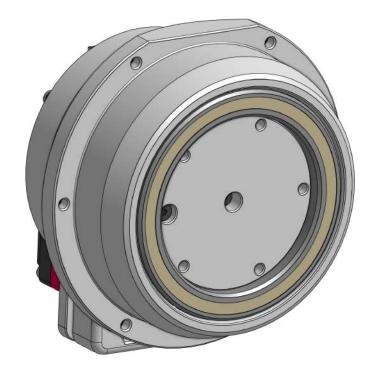




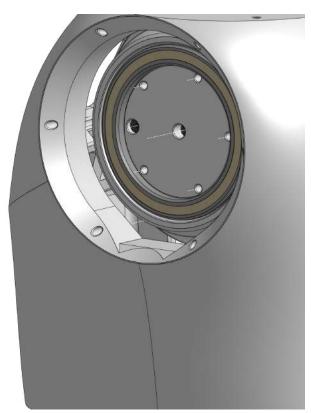


Attach **C63** to assembly using **2 x M3 40mm** screw and place **1 x M04** ballbearing on top.





Place assembly into clavicles like shown in the pictures.





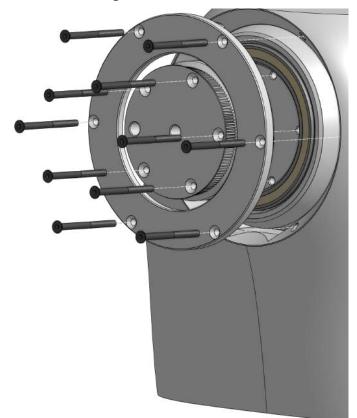








Fix the shoulder using **C62** and **C64** with **6 x M3 40mm** screws and **5 x M3 40mm** screws.







Congratulations

You did a great job, pib´s shoulder 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.



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