

How to build your robot

www.pib.rocks/build

assembly instructions for:

Finger

pib#4



PRINT BUILD DEVELOP YOUR OWN ROBOT



Printable parts

Pib's finger consists of **5 printable parts** and is assembled in **4 steps.** For one hand, you should build 5 identical fingers, so print each part 5 times.

Please note: For better readability we use the abbreviations in

the tutorial: D05 instead of D05-Finger_proximal_lower.

Printable parts

D05-Finger_proximal_lower

D06-Finger_proximal_bracket

D07-Finger_proximal_upper

D08-Finger_distal

D09-Finger_tip



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 2x **S01** M3 nuts 1 x **S06** M3 16 mm screws 1 x **\$08** M3 20 mm screws 1 x M08 20 mm metal rods 2 x M01 Ballbearing_2x5x2,3 2 x M10 Spring_TOR410L 160 cm Fluorocarbon string – *for each finger* Please note: the table shows the amount of non-printable parts for just one finger!



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

off remaining wire above the knot.

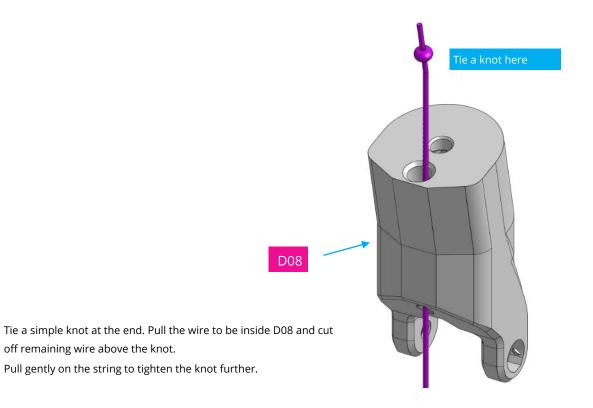
Step 1

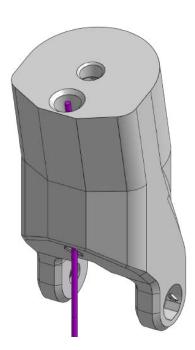






Cut a piece of **160 cm** length of the **fluorocarbon string** and insert it into **D08** as shown in the picture.







Step 2a

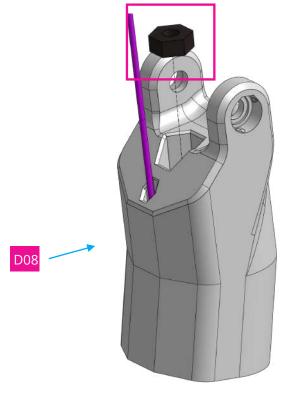






Insert **1x nut** through the shown hole in **D08** (all the way till the end).

Use a small screw driver and insert the nut through the hole, then push the nut till the end of D08. This step can be a little tricky.



Step 2b

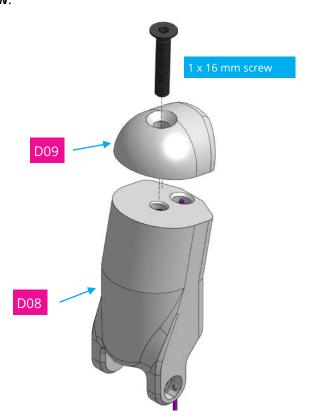
Connect **D09** to **D08** using **1x 16mm screw**.

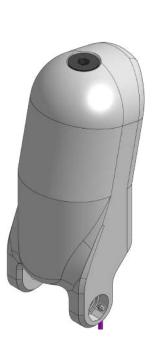












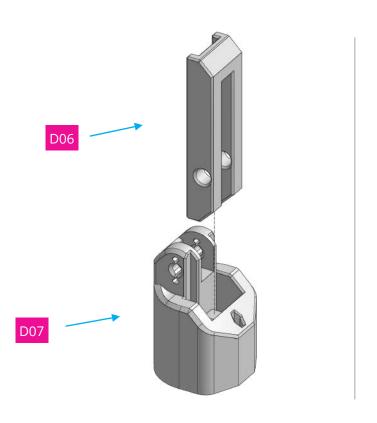
Please note: it may happen that the fingertip can still be turned slightly after assembly.

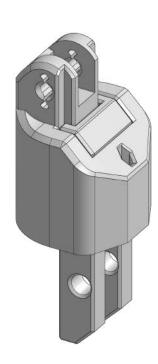


Step 3a

Insert **D06** through the shown spot in **D07**.





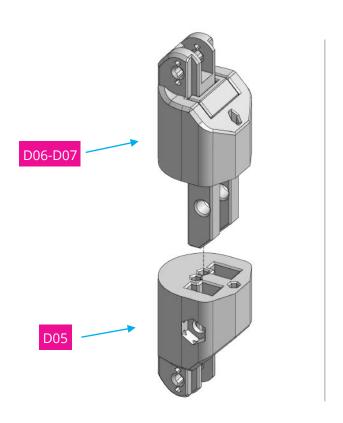


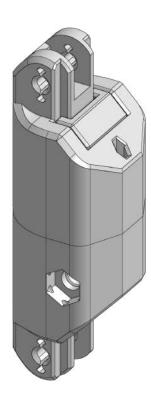


Step 3b

Insert the assembly from step 3a to **D05**.











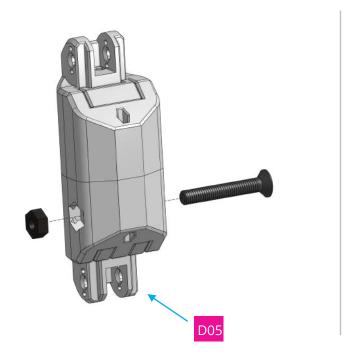


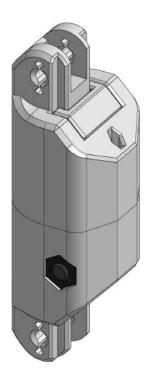




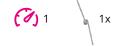


Place 1 x nut through the shown spot in **D05** and fasten the parts using 1 x 20mm screw.

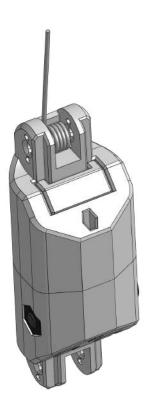




Place **1 x M10 spring** through the shown spot in previous assembly from step 3c.



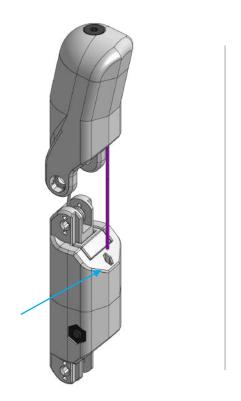




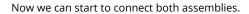
Step 4b

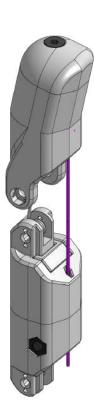
(d) 1

Insert the fluorcarbon string coming out of **D08** through the shown hole in assembly from step 3c.



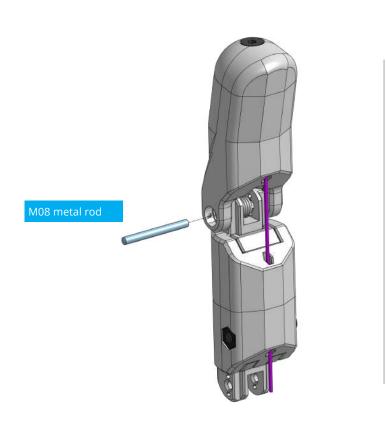
Insert wire here

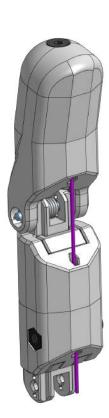






Use 1 x M08 metal rod to connect both assemblies.





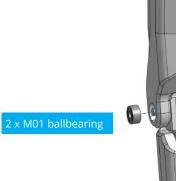
Insert 2 x M01 ball bearings through the shown spots in D08.











Use a small hammer to push the ballbearings onto the ends of the metal rod.

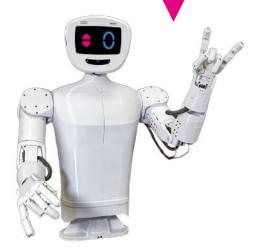


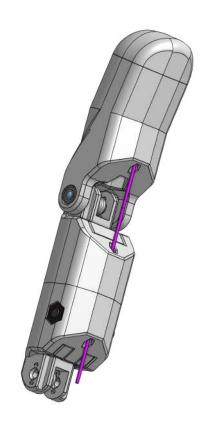
Congratulations

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

Repeat this tutorial 4 times and you will have all five finger of pib´s hand.









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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