



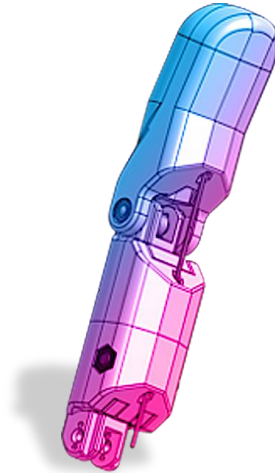
How to build your robot

www.pib.rocks/build

assembly instructions for:

FINGER

v2025



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 **S08** M3 20 mm screws

1 x **M08** 20 mm metal rods

2 x **M01** Ballbearing_2x5x2,3

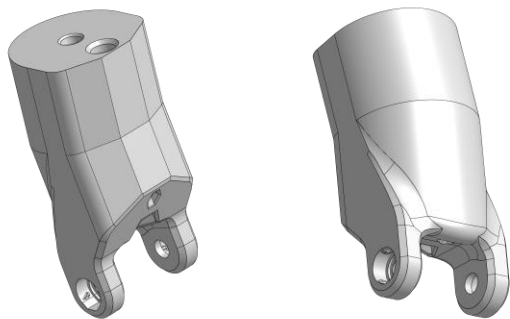
2 x **M10** Spring_TOR410L

160 cm Fluorocarbon string – *for each finger*

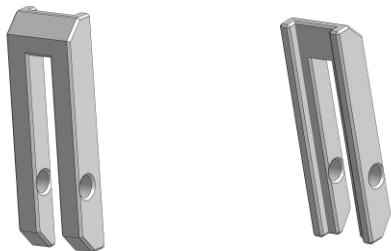
Please note: the table shows the amount of non-printable parts for just one finger!

Printable parts - Overview

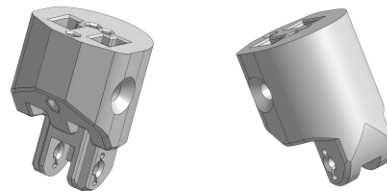
D08-Finger_distal



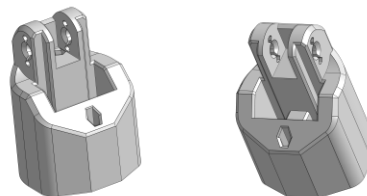
D06-Finger_proximal_bracket



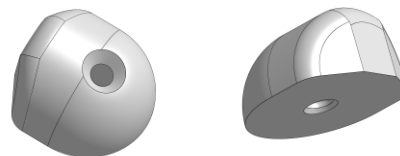
D05-Finger_proximal_lower



D07-Finger_proximal_upper



D09-Finger_tip



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)



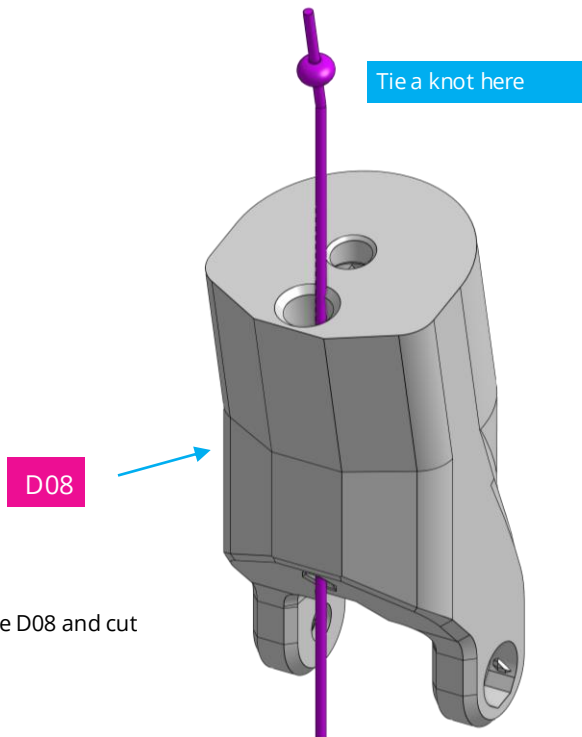
We also show you which **non-printable parts** you need for each step

Step 1

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

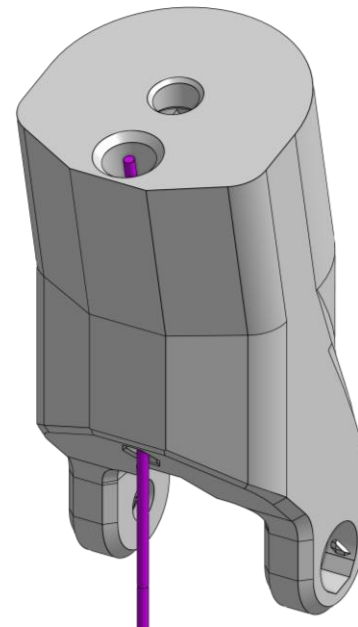


160cm



Tie a simple knot at the end. Pull the wire to be inside D08 and cut off remaining wire above the knot.

Pull gently on the string to tighten the knot further.



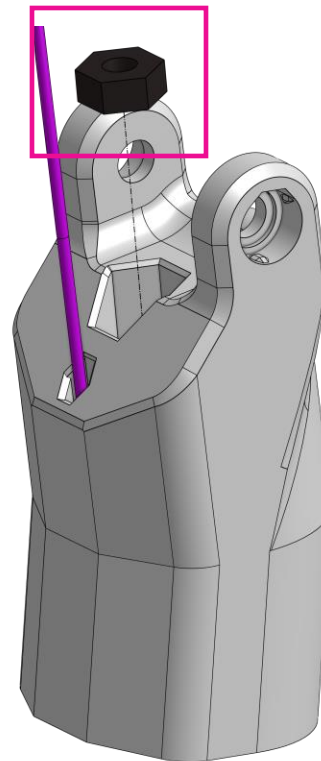
Step 2a

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



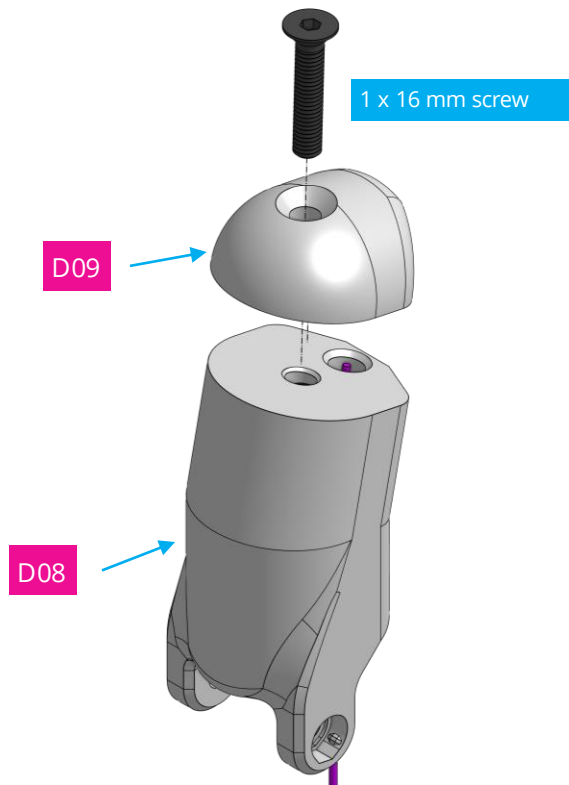
Use a small screw driver and insert the nut through the hole, then push the nut till the end of D08.
This step can be a little tricky.

D08

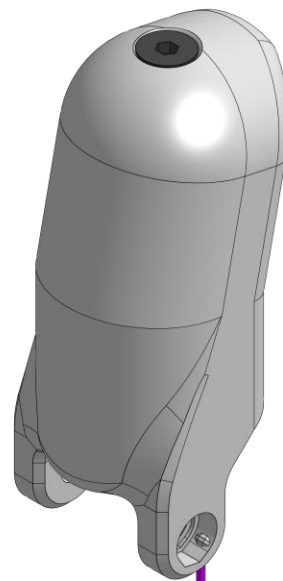



Step 2b

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

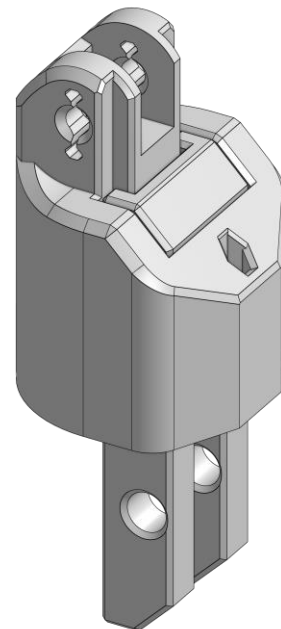
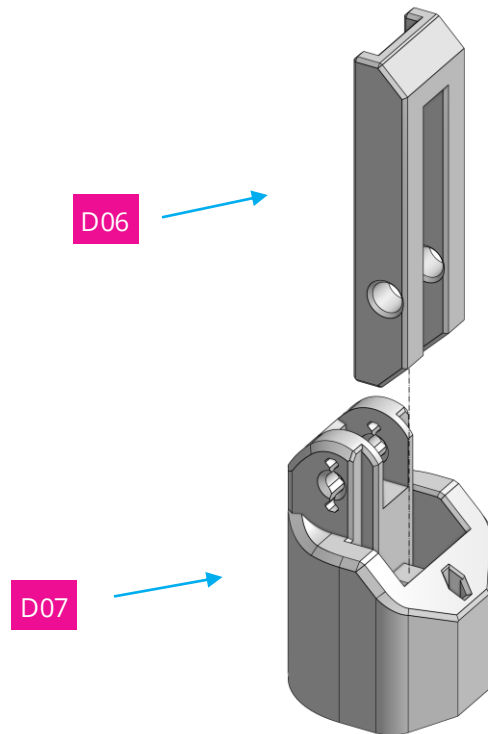


Please note: it may happen that the fingertip can still be turned slightly after assembly.



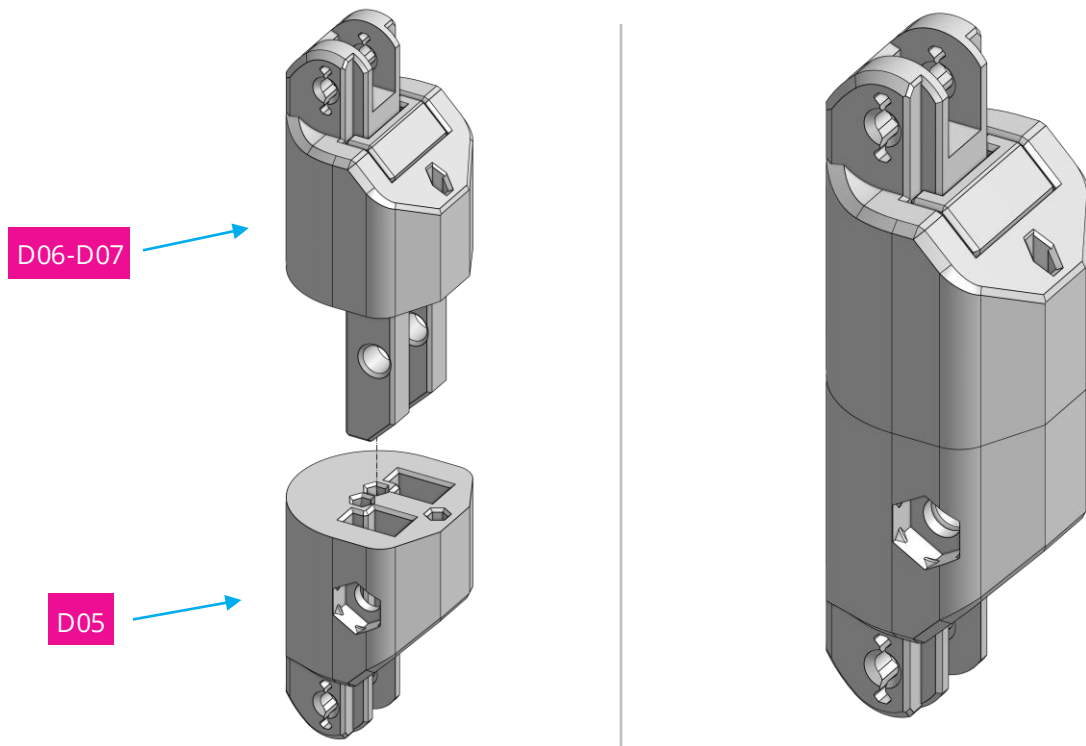
Step 3a

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



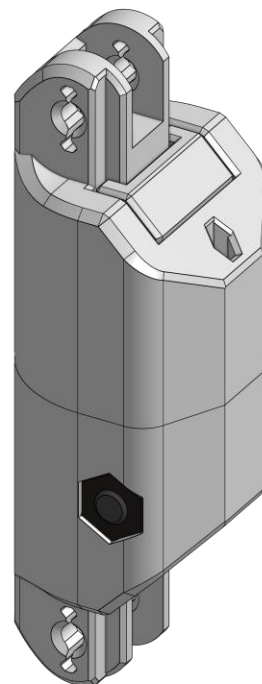
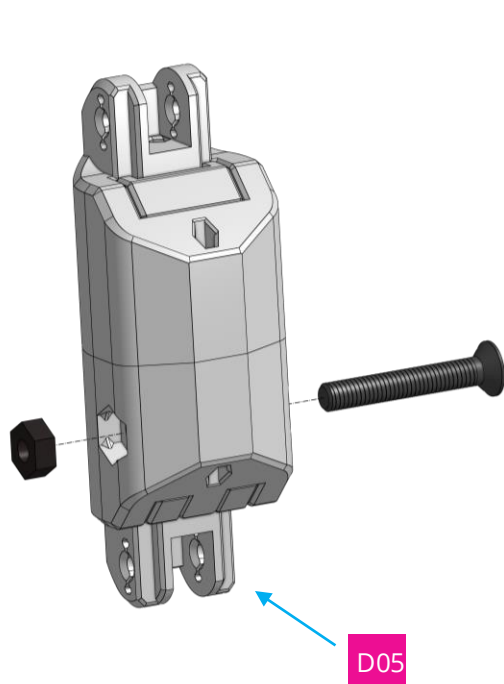
Step 3b

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



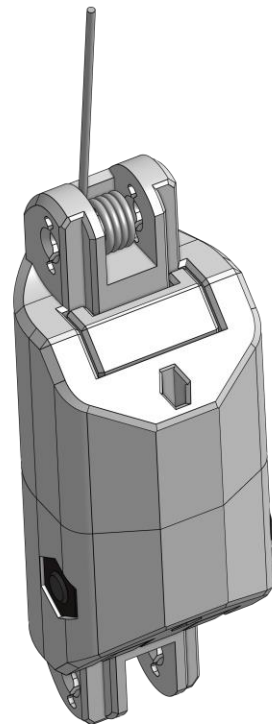
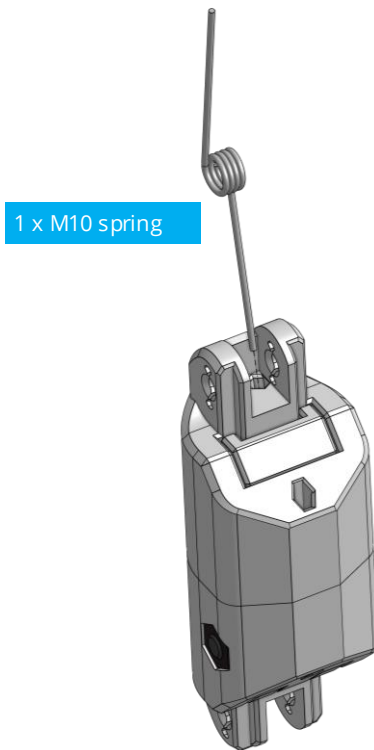
Step 3c

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



Step 4a

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

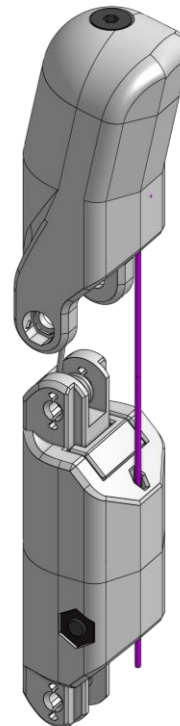
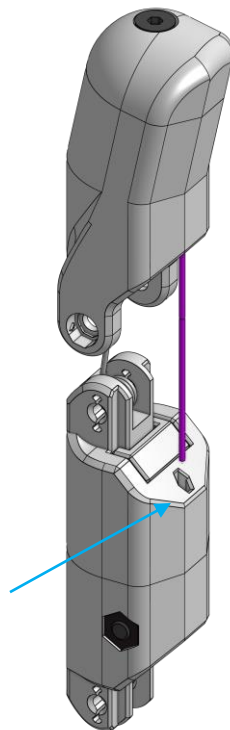


Step 4b

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



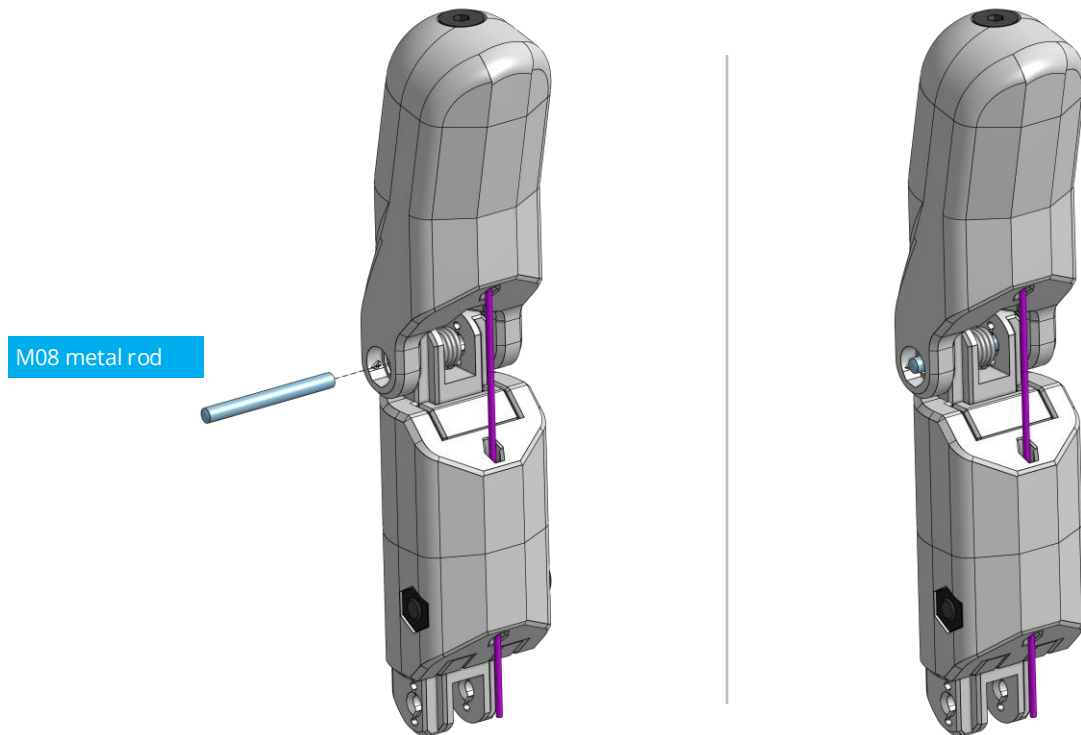
Insert wire here



Now we can start to connect both assemblies.

Step 4c

Use **1 x M08 metal rod** to connect both assemblies.



Step 4d

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

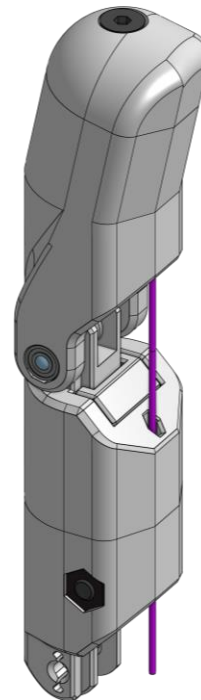
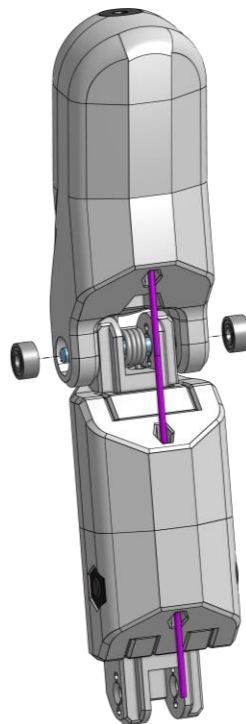


1



2x

2 x M01 ballbearing



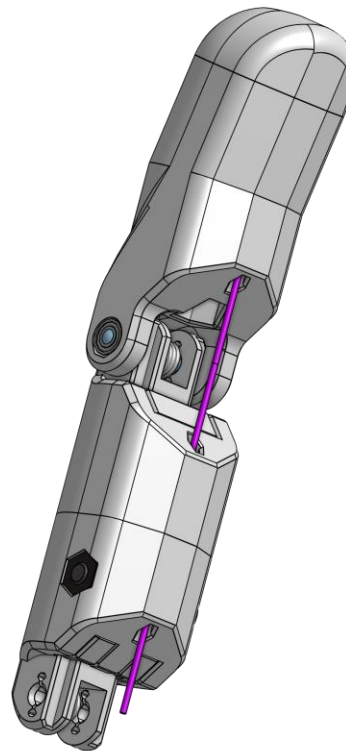
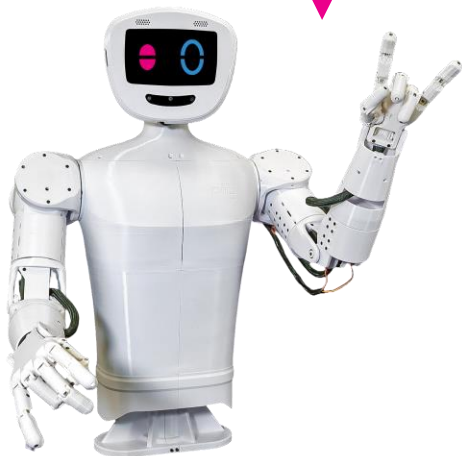
Use a small hammer to push the ballbearings onto the ends of the metal rod.

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.

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.