



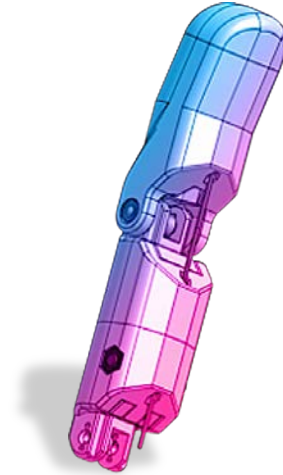
## How to build your robot

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

assembly instructions for:

### FINGER

v2024



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

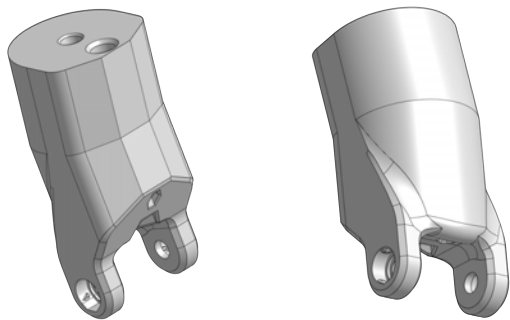
2 x **M10** Spring\_TOR410L

90 cm **Fluorocarbon string**

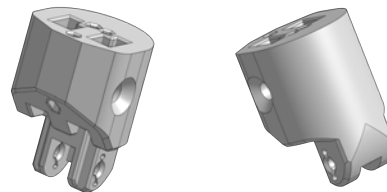
Please note: the table shows the amount of non-printable parts for just one finger!

## Printable parts - Overview

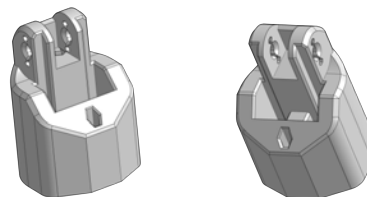
D08-Finger\_distal



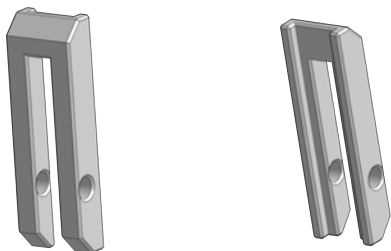
D05-Finger\_proximal\_lower



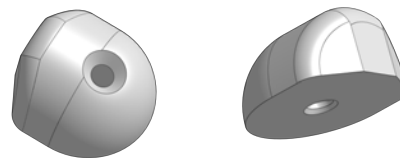
D07-Finger\_proximal\_upper



D06-Finger\_proximal\_bracket



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)



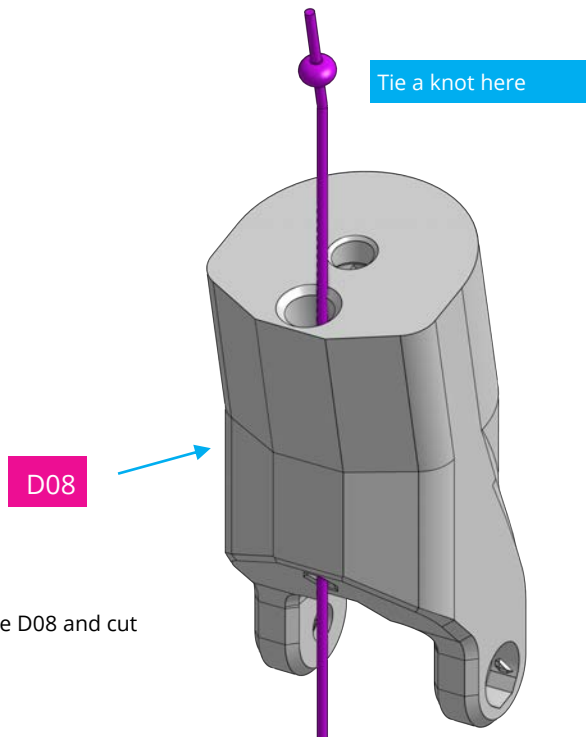
We also show you which **non-printable parts** you need for each step

## Step 1

Cut a piece of **90 cm** length of the **fluorocarbon string** and insert it into **D08** as shown in the picture.

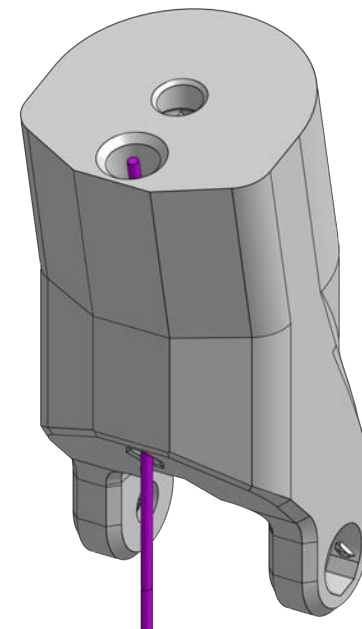


90 cm



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).



3

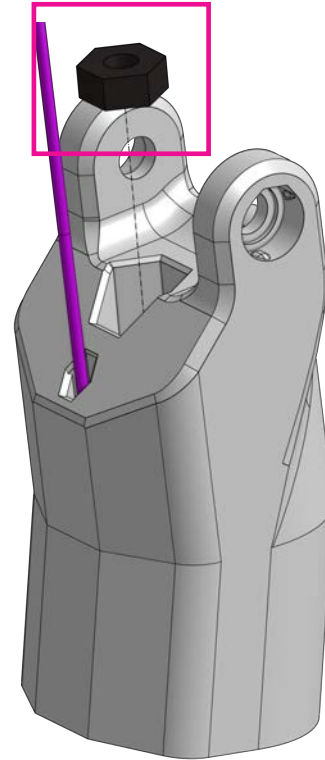


1x

D08

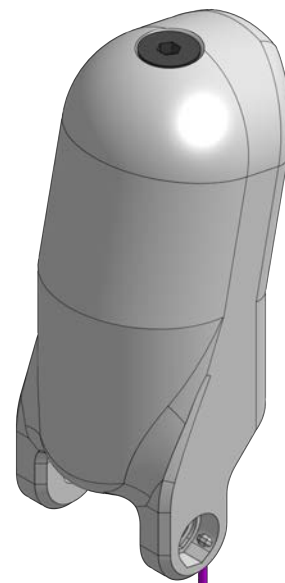
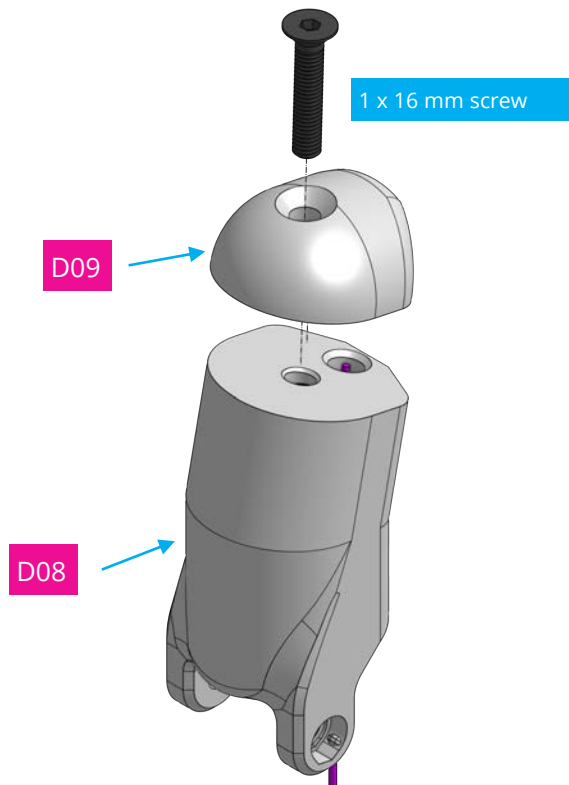


Use a small screw driver and insert the nut through the hole, then push the nut till the end of D08.  
This step can be a little tricky.



## Step 2b

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

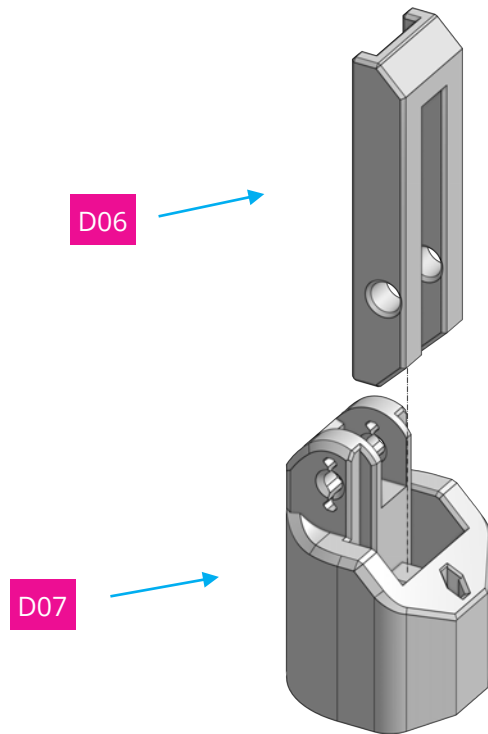


Please note: it may happen that the fingertip can still be turned slightly after assembly.

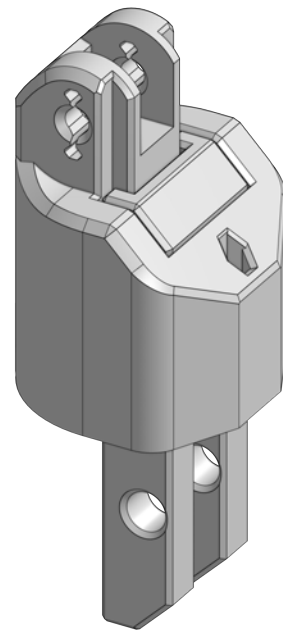


### Step 3a

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

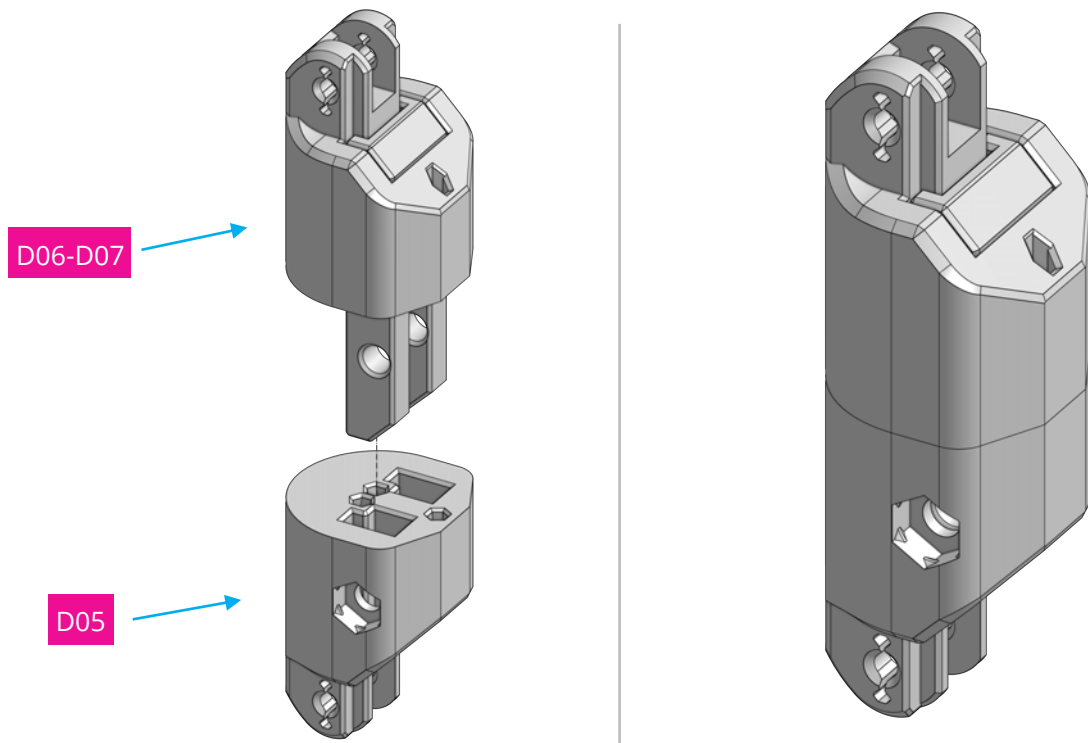


1



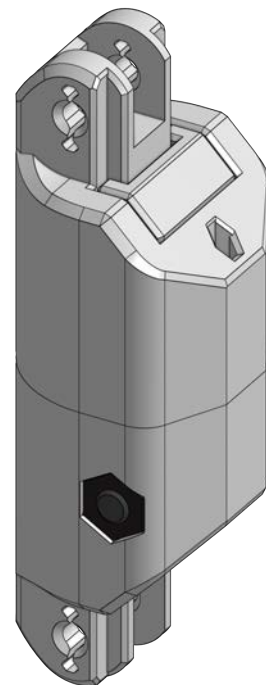
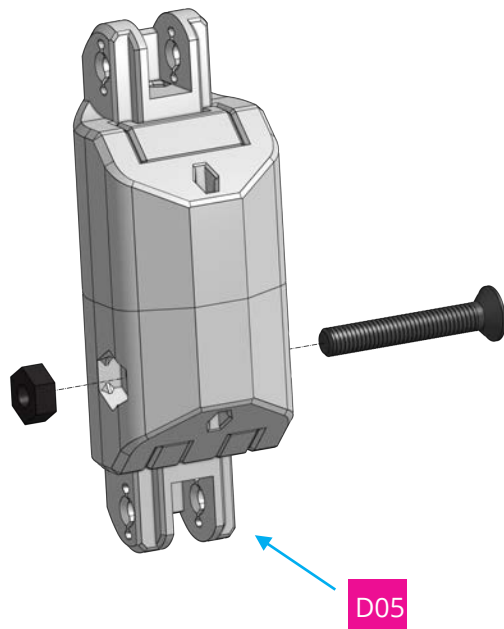
### Step 3b

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**.

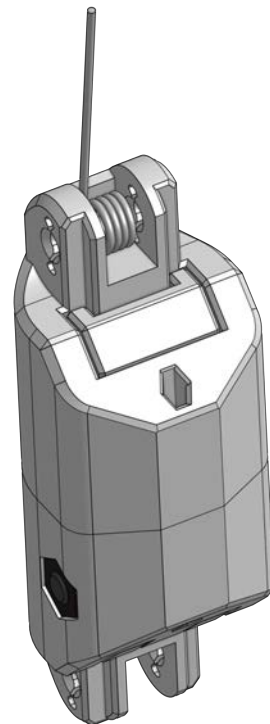
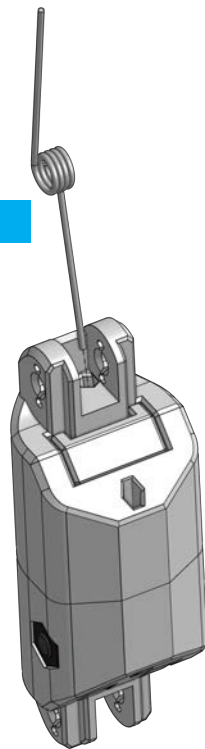


## Step 4a

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



1 x M10 spring

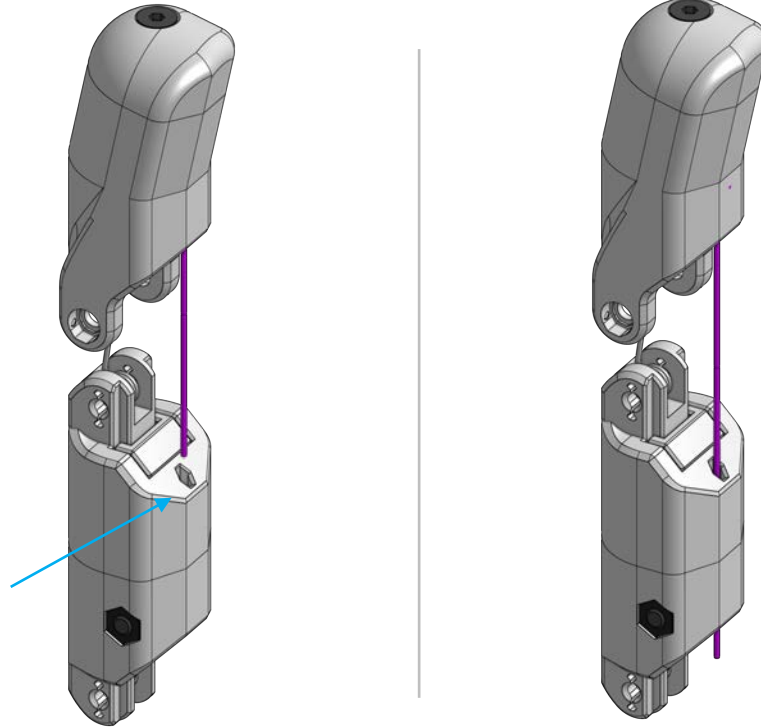


## Step 4b

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



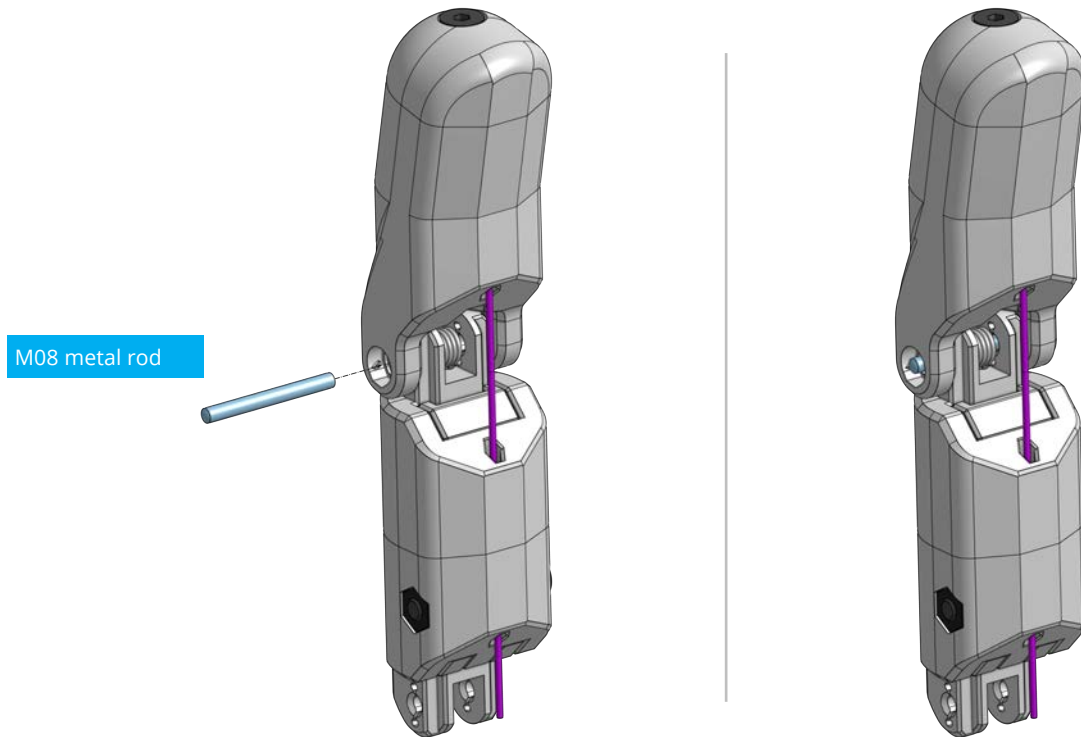
Insert wire here



Now we can start to connect both assemblies.

### Step 4c

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

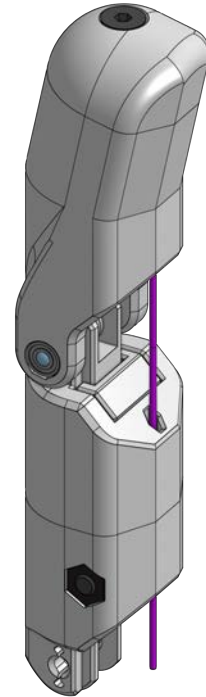
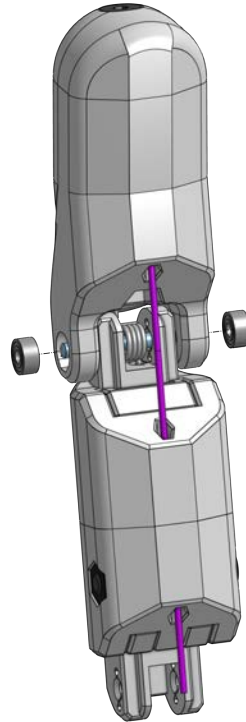


## Step 4d

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



2 x M01 ballbearing



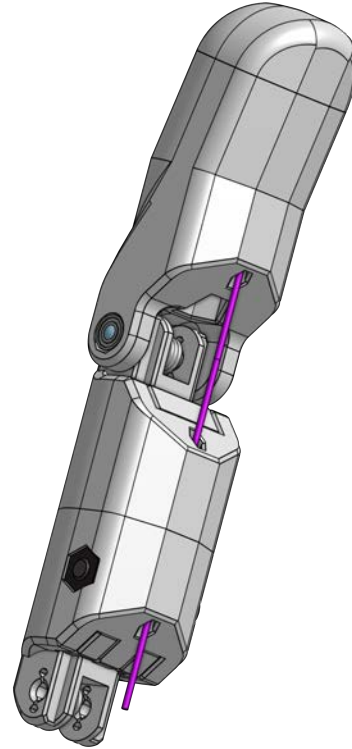
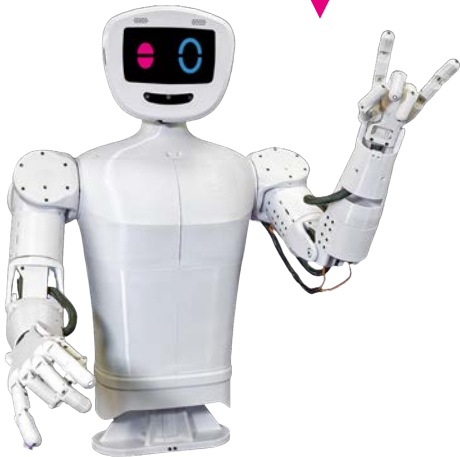
Use a small hammer to push the ballbearings onto the ends of the metal rod.

## 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.