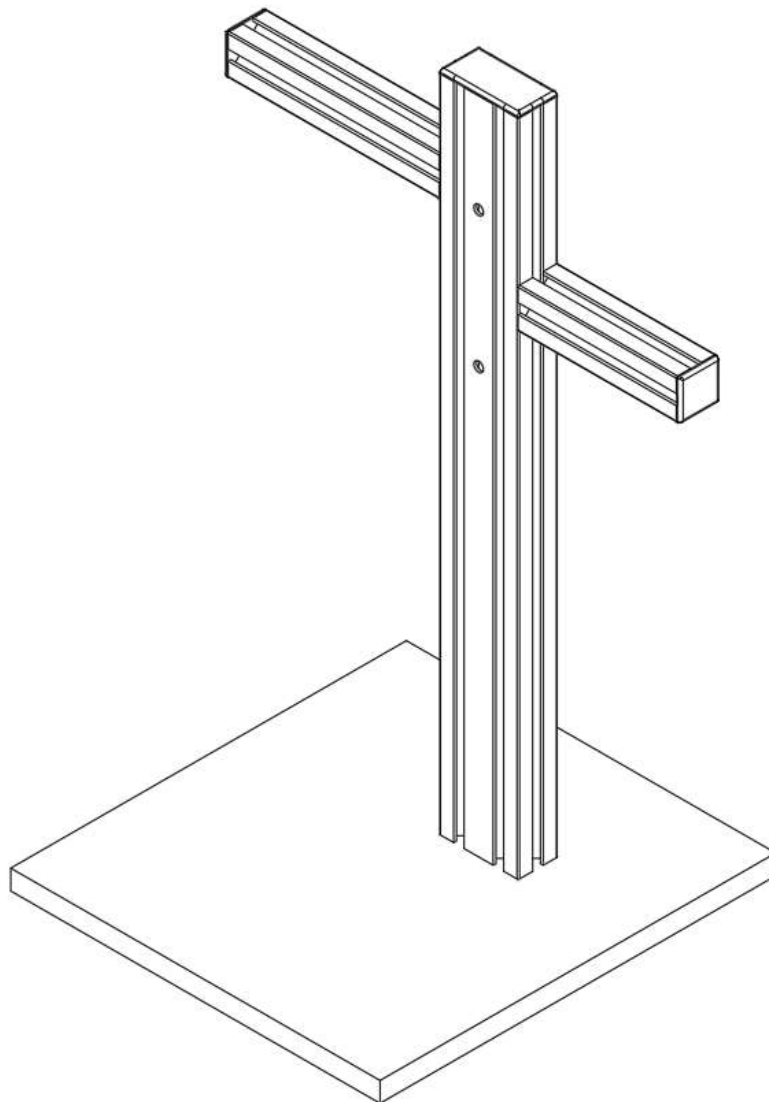


# 01 Frame assembly

## Assembly instructions

Original Desktop Filament Extruder E1.6 by ARTME 3D

Version 04.01.2022





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### **Required tools for this assembly section:**

Phillips screwdriver PH1

Sandpaper/File

### **Overview packages**

Package 0: Delivered carton

Package 1: Screws (SC)

Package 2: Spare Parts (SP)

Package 3: Custom Metal Parts (CM)

Package 4: Extruder Barrel (EB)

Package 5: Electronics (EL)

Package 6: Tools (TO)

## Step 1:

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Remove from package 0 (delivered carton):

1x base plate (FR01)

1x aluminum profile 30x60x500 (FR02)

Remove from package 1: 2x countersunk screw M8x30 (SC18)

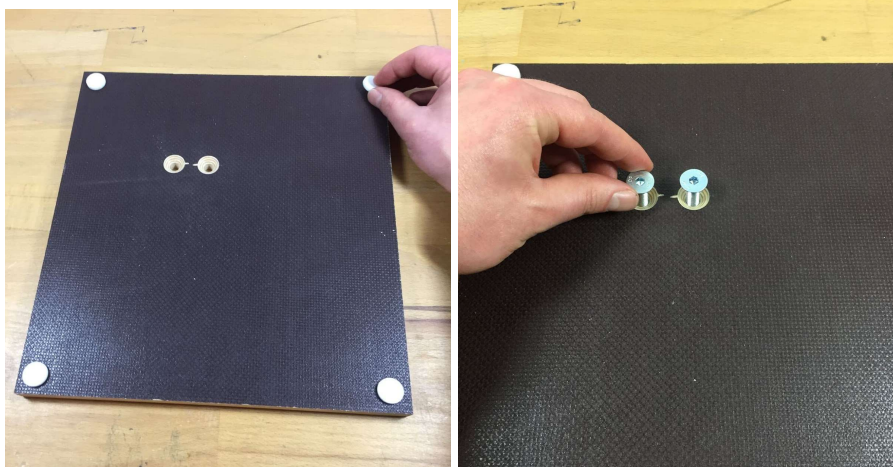
Remove from package 2: Felt gliders (SP07)



## Step 2:

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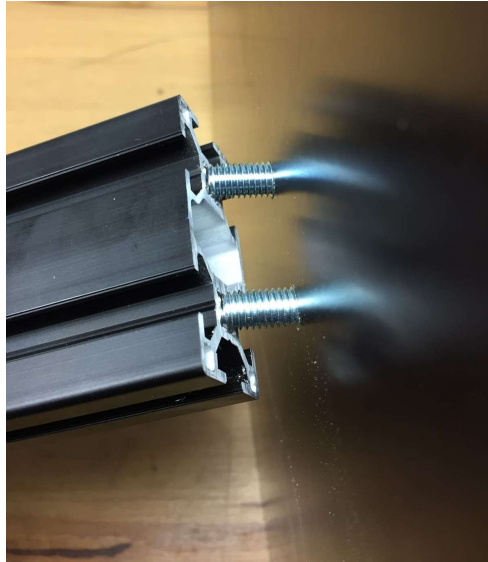
Lightly sand all edges of the base plate with sandpaper or a file so that there are no sharp edges left and you cannot injure yourself. Glue the felt gliders on the back of the mounting plate in all four corners. The rear side has a rough surface. Insert the screws through the holes.



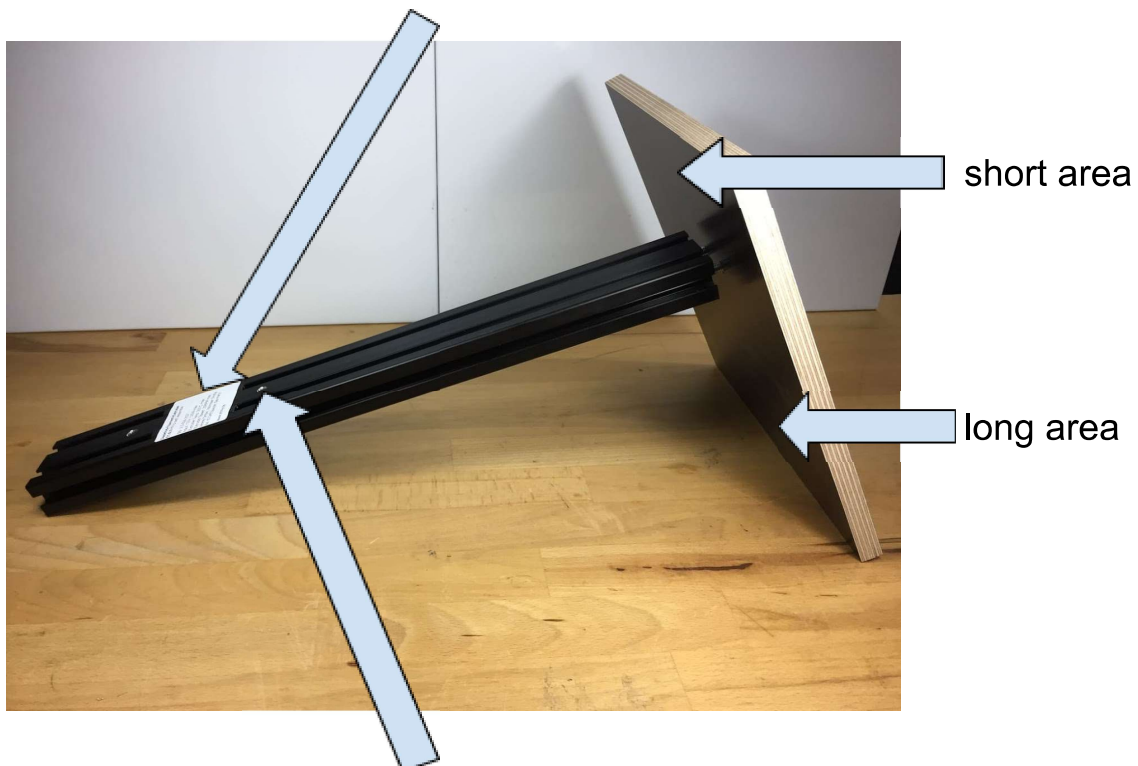
## Schritt 3:

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Screw the screw ends into the aluminum profile on the other side of the mounting plate. The screws must hit the small holes in the corners of the aluminum profile. Alignment of the aluminum profile see pictures:



Nameplate at this position



Drilled holes at this end

## Step 4:

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Tool from package 6: Allen key size 5

Tighten screws.



## Step 5:

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Check: This is how the main frame must now look:



## Step 6:

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Remove from package 0:

1x aluminum profile 30x30x160mm (FR03)

1x aluminum profile 30x30x120mm (FR04)

Remove from package 2: 2x angle connector (SP06)



## Step 7:

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Insert the angle connector into the grooves of the aluminum profiles. Alignment see picture:



## Step 8:

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The 160mm long aluminum profile is inserted into the lateral groove on the left side of the main frame. The 120mm long aluminum profile is inserted into the lateral groove on the main frame on the right side.



## Schritt 9:

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Tool from package 6: Allen wrench 3mm

Screw the angle connector tightly on both sides. On the left side of the 160mm long aluminum profile, the distance from the bottom edge of the aluminum profile to the surface of the mounting plate is 402mm. On the right side of the 120mm long aluminum profile, the distance from the bottom edge of the aluminum profile to the surface of the mounting plate is 360mm.



## Step 10:

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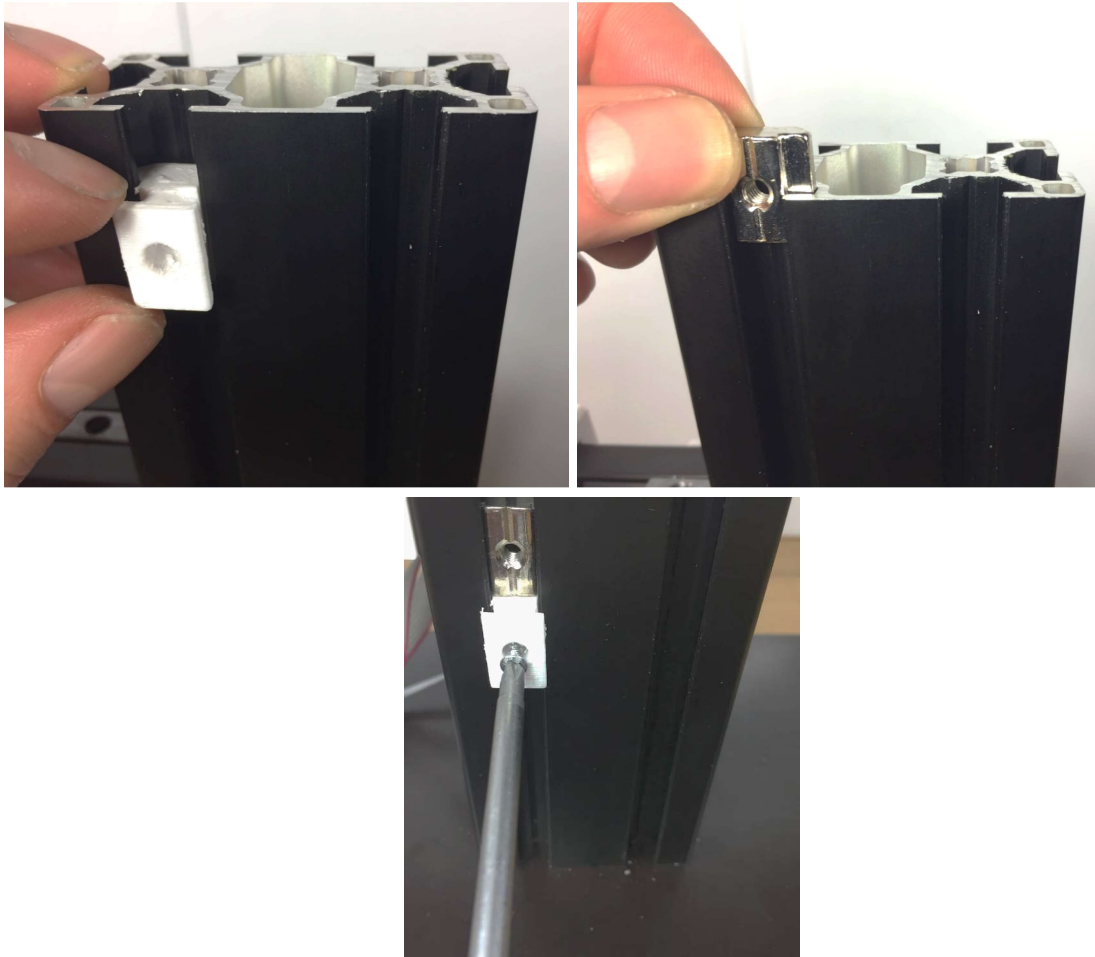
Tool: Phillips screwdriver PH1

Remove from package 1: 1x wood screw 2,5x12mm (SC01)

Remove from package 2: 1x slot nut (SC20)

3D printing parts: Sensor holder (SO01)

Slide the sliding block into the left groove of the aluminum profile of the main frame. Slide the sensor holder into the left groove of the aluminum profile of the main frame as well. The rounded surface on the sensor holder must point upwards. Turn the screw into the sensor holder to clamp the sensor holder. Do not overtighten. The position is around the lower area just above the mounting plate. The exact position will be set later.



## Done!

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Continue with the assembly instructions "02-Extruder barrel assembly".