



## Saturn V rocket Apollo 15 AS 510 mission

Building instruction  
Scale 1/60th  
1,82m high  
24 items demountable

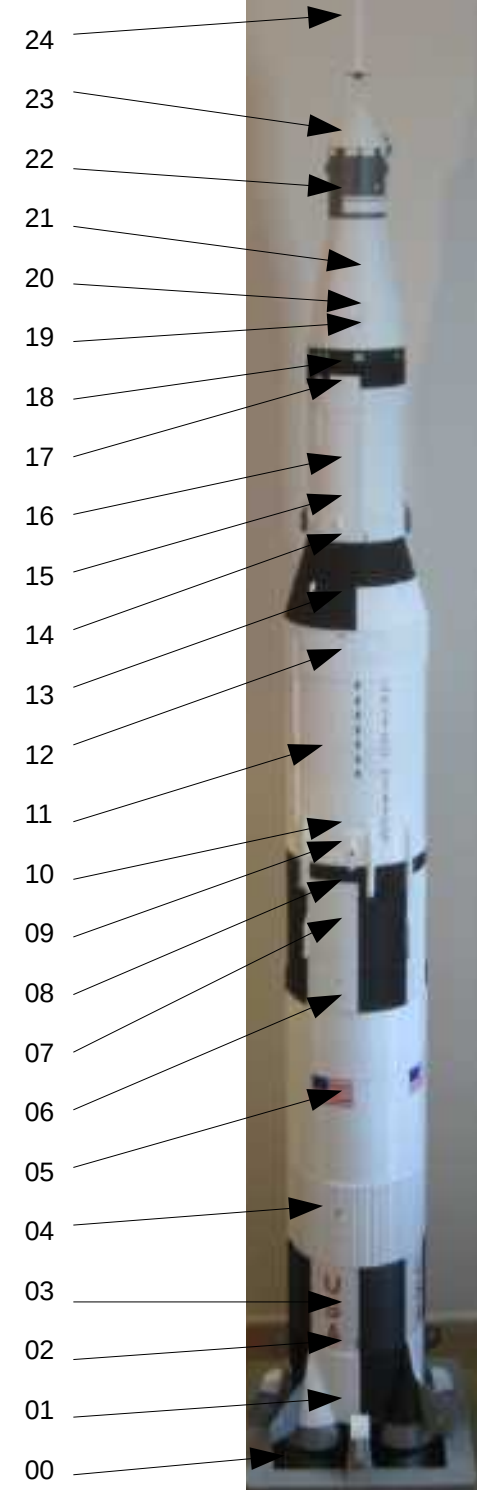
656 pieces  
Finished weight 3kgs

Amount of filament per color :

Silver : 1,2 kg  
White : 860 grs  
Black : 330 grs  
Yellow : 330 grs  
Grey : 90 grs  
Gold : 60 grs  
Brown : 40 grs  
Red : 20 grs  
Blue : 10 grs

Items definition :

00 : launch pad  
01 : S1C trust structure  
02 : bottom of RP1 tank  
03 : RP1 tank  
04 : S1C inter-tank structure  
05 : LOX tank  
06 : S1C LOX tank top  
07 : S1C-S2 inter-stage structure  
08 : S2 trust structure  
09 : bottom of LOX tank  
10 : S2 common bulkhead  
11 : S2 LH2 tank  
12 : S2 LH2 tank top  
13 : Inter-stage S2-S4B structure  
14 : S4B trust structure  
15 : S4B common bulkhead  
16 : S4b LH2 tank  
17 : S4B LH2 tank top  
18 : Instrument unit  
19 : LM fairing  
20 : LM descent stage  
21 : LM ascent stage  
22 : Service module  
23 : command module  
24 : escape tower



In this pack : S1C stage

Some agglomerated wooden plank is needed

266 pieces

70 cm high

1450 grs

Naming the items :

S5 00-G\_01\_x4.stl

S5 : saturn 5

00 : number of module

G : grey color as W-white, S-silver, B-black,

Be-blue, R-red, Br-brown, Y-yellow

01 : part number per color

X4 : number of parts

Gluing with CA glue (cyanoacrylate glue)



Dans ce pack : l'étage S1C

Un peu de planche de bois aggloméré sera  
Utile pour construire le pas de tir.

266 pieces

70 cm de haut

1450 grs

Nomenclature des pièces :

S5 00-G\_01\_x4.stl

S5 : saturn 5

00 : numéro du module

G : couleur grise puis W-blanc, S-argent, B-noir,  
Be-bleu, R-rouge, Br-marron, Y-jaune

01 : numéro de la pièce par couleur

X4 : nombre de pièces nécessaire

Collage à la colle cyanoacrylate



Launch pad construction



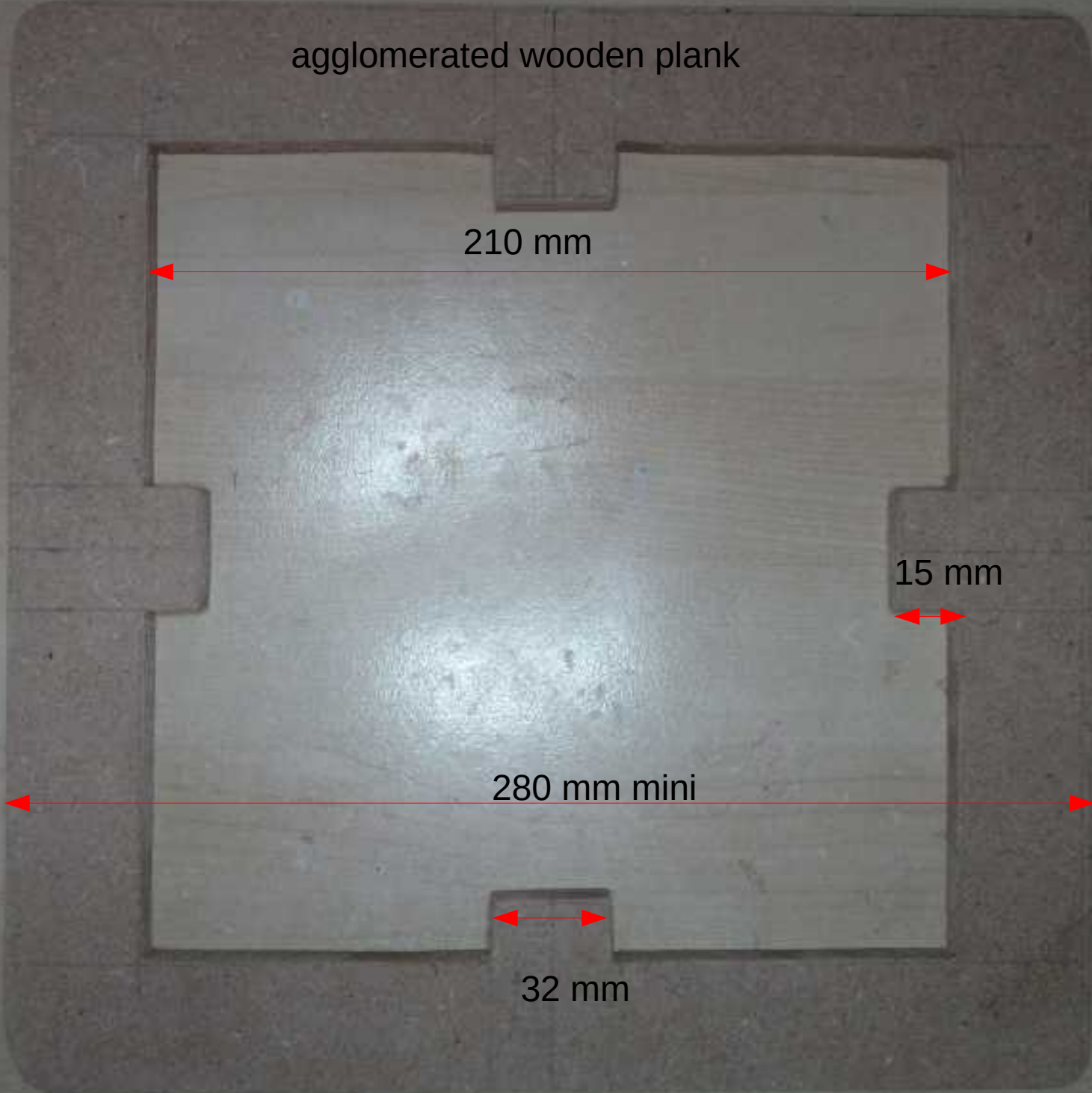
agglomerated wooden plank

210 mm

15 mm

280 mm mini

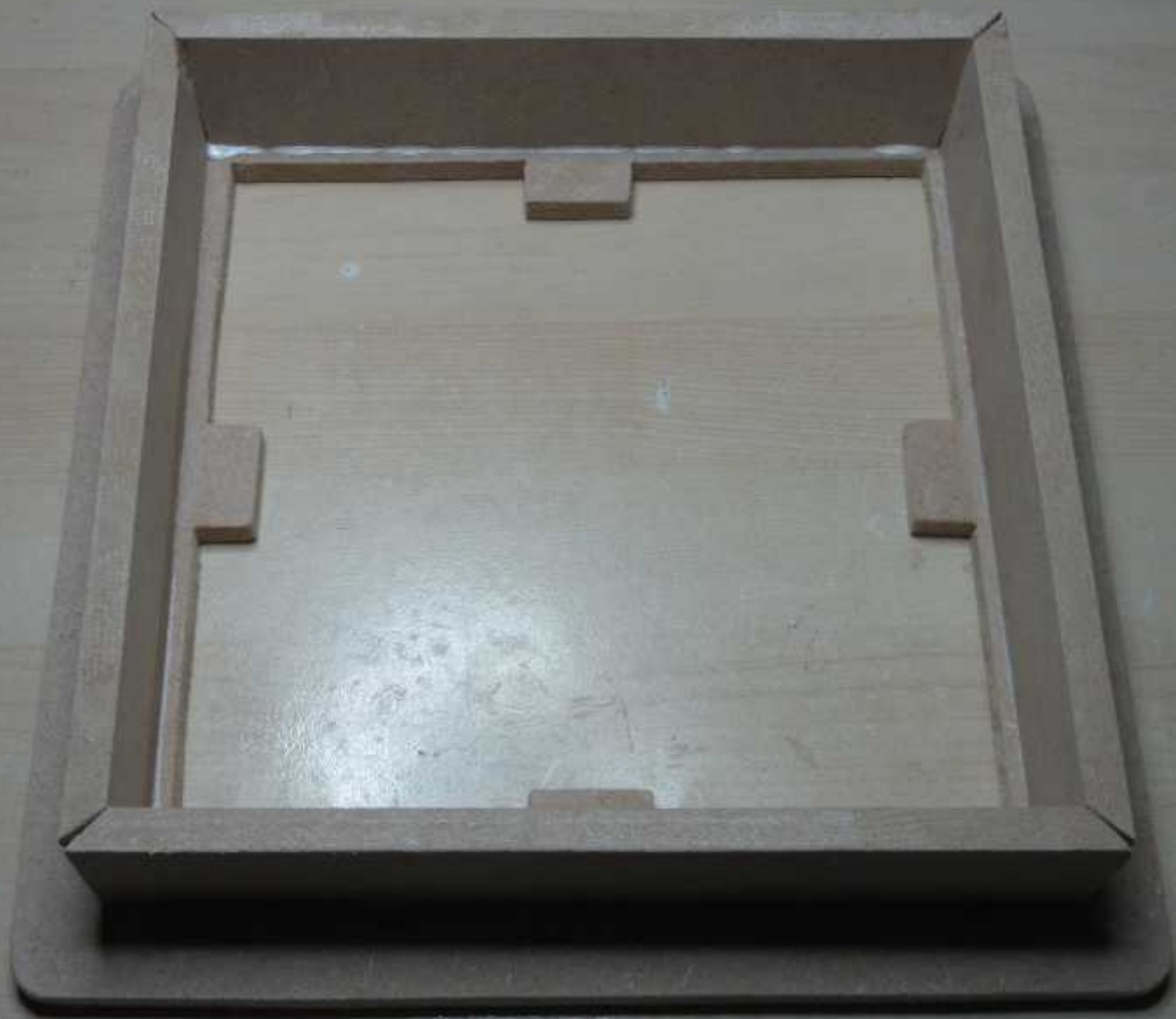
32 mm





210 mm mini







10 cm minimum

G 01 x4

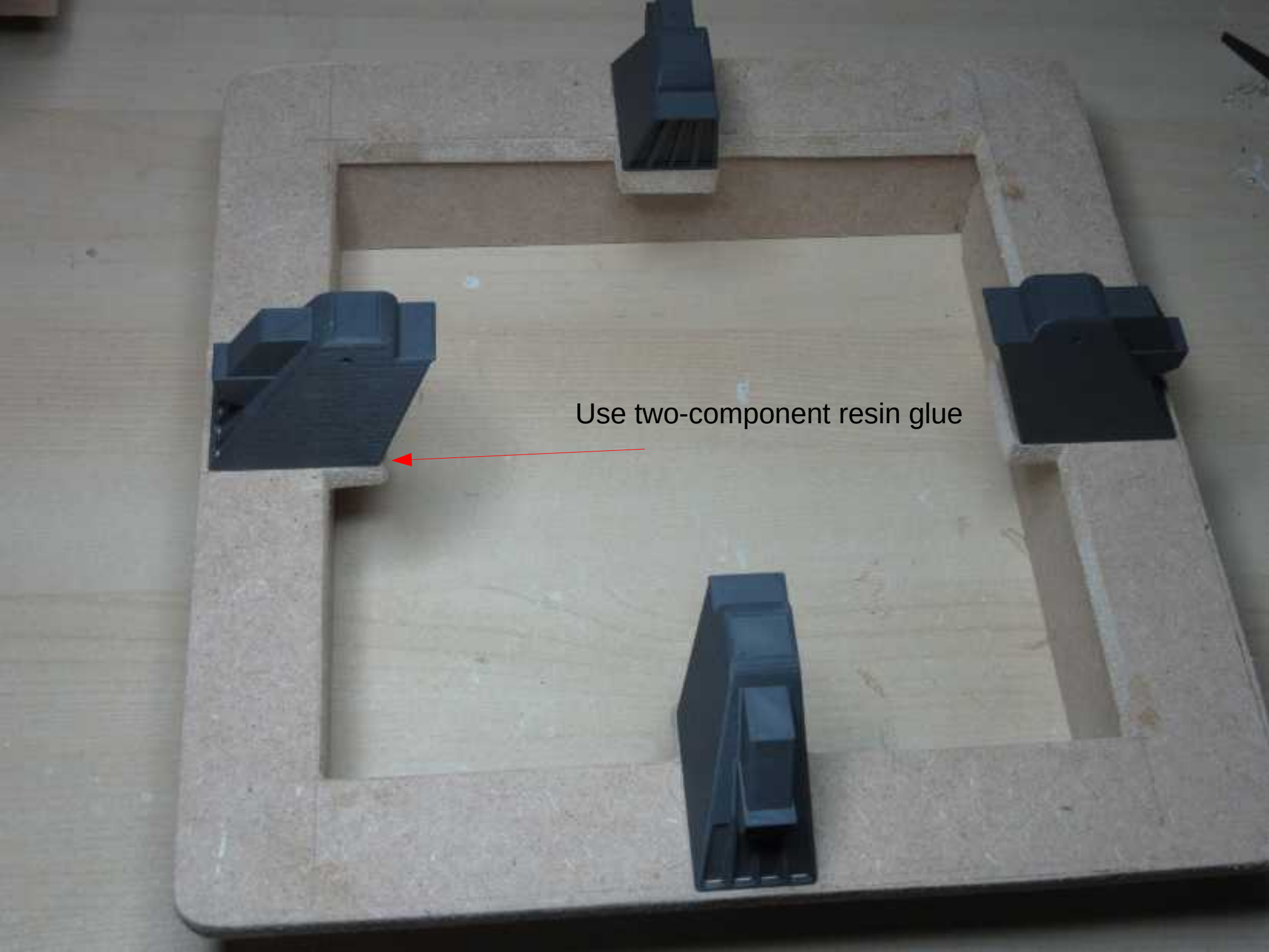


Z 01

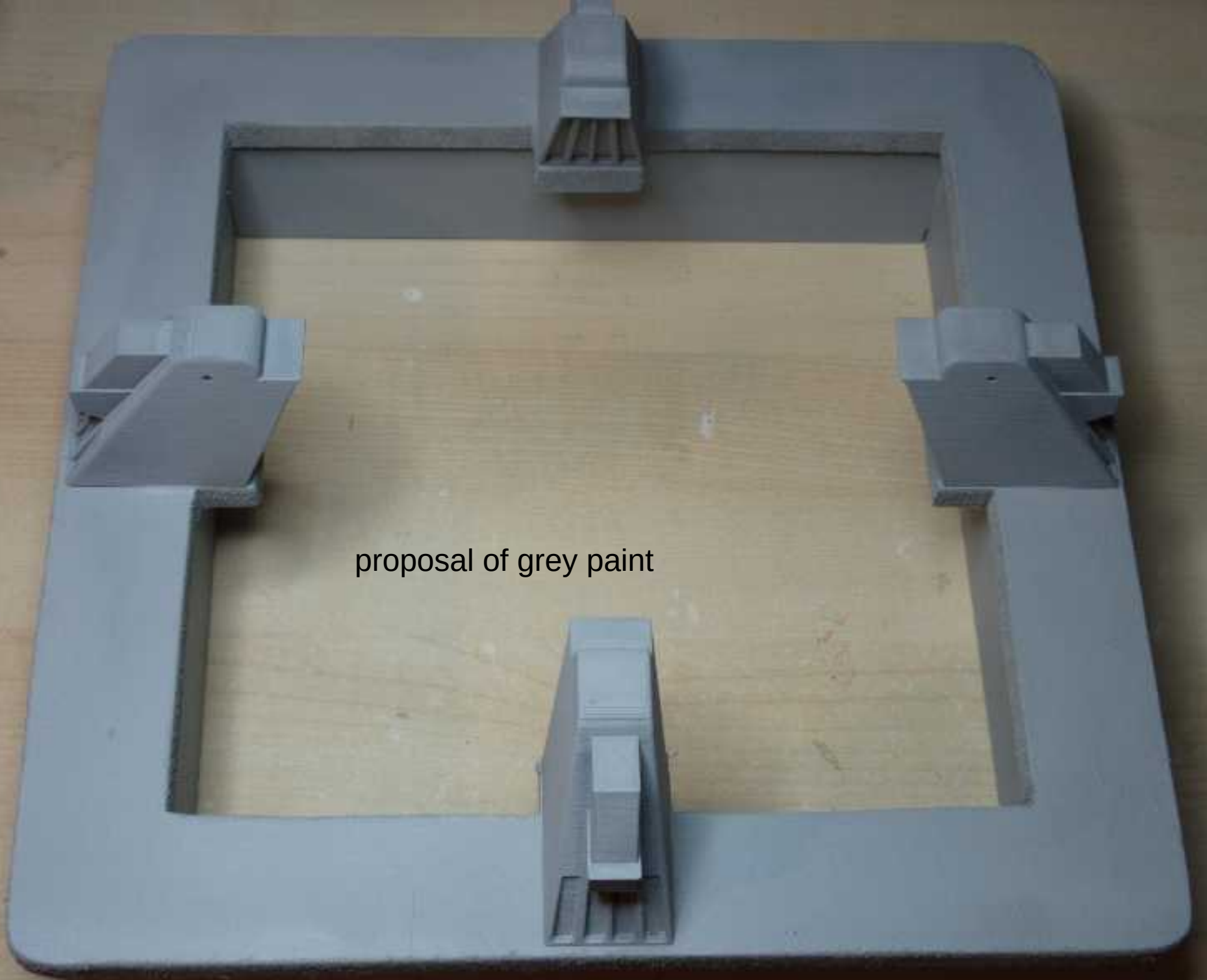


Use 00 file  
positioner template





Use two-component resin glue



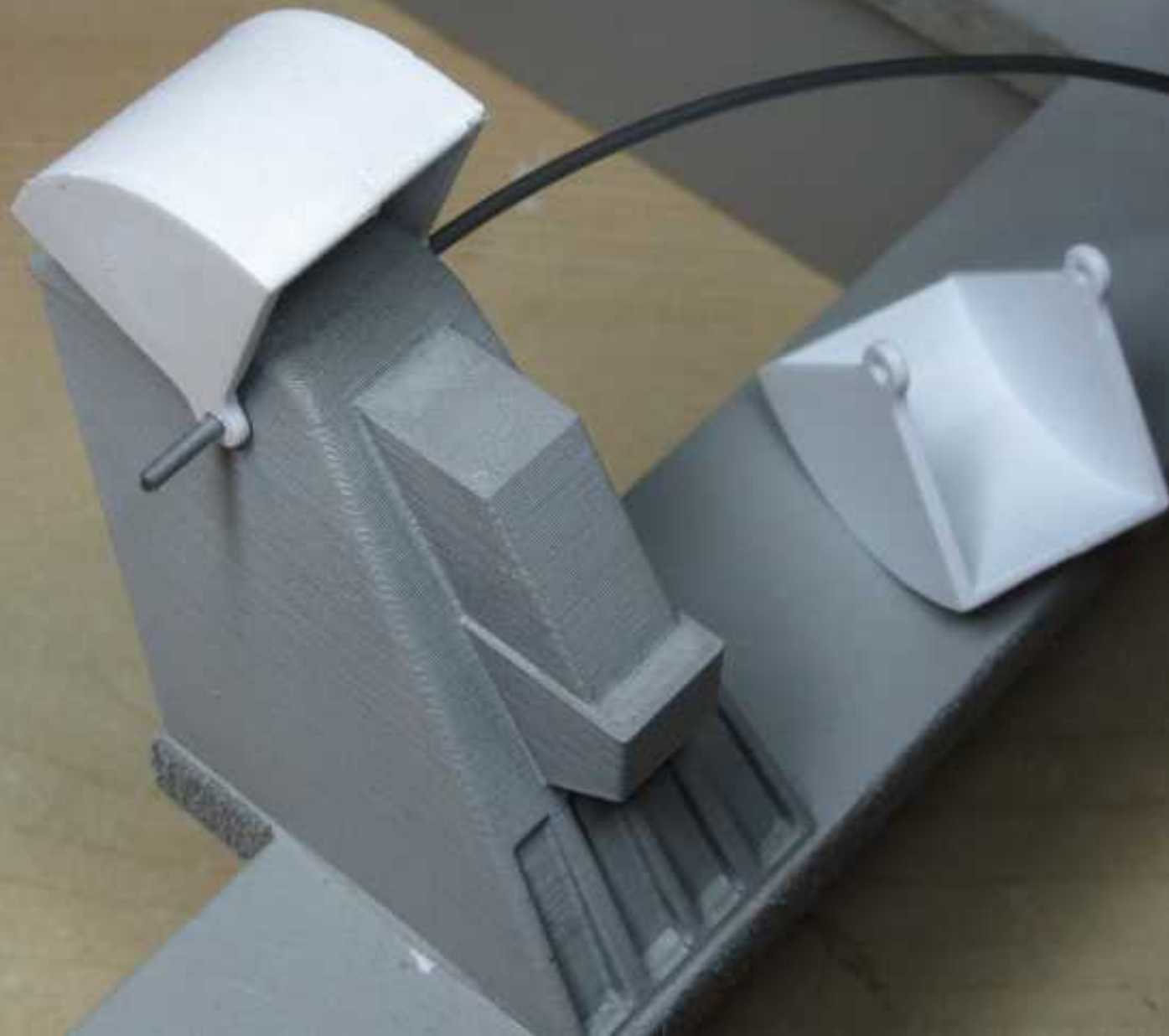
proposal of grey paint

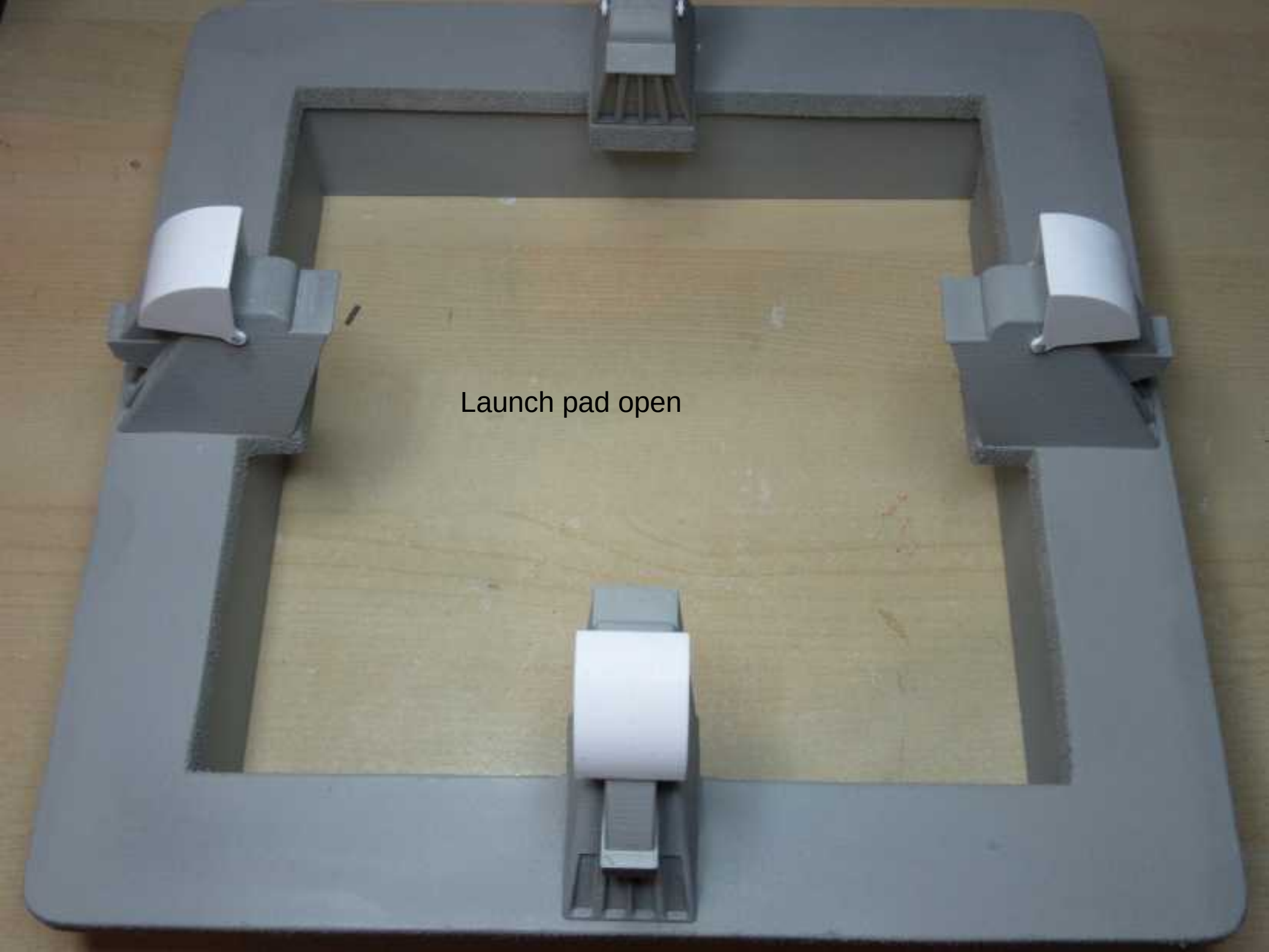


W 01 x8

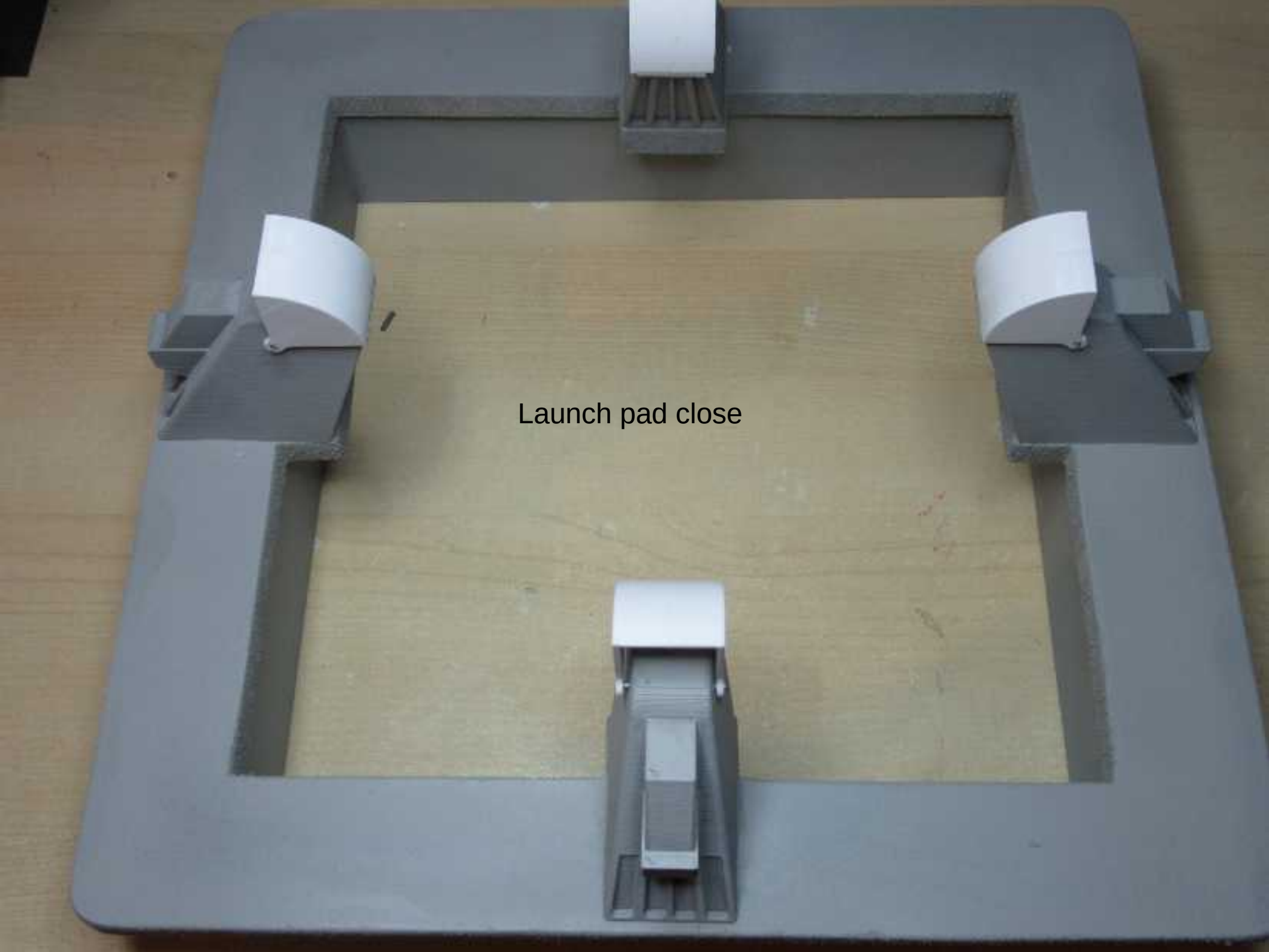


Use 1,75 mm filament



A grey plastic launch pad is shown from a top-down perspective. It has a square central opening containing a light-colored wooden board. Four white launchers are attached to the inner edges of the pad: one at the top center, one at the bottom center, and one on each of the left and right sides. The launchers are currently in an open position, angled outwards. The entire device is placed on a light-colored wooden surface.

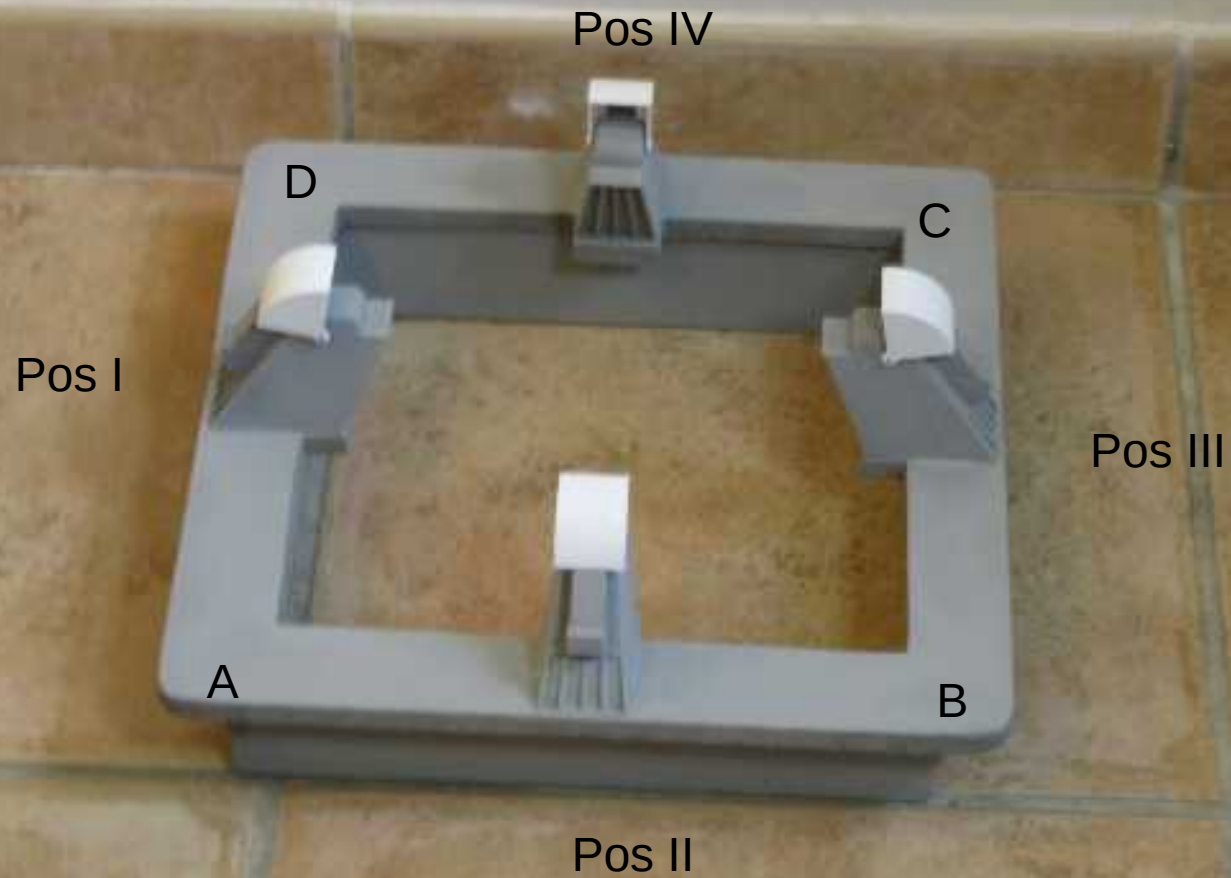
Launch pad open

A top-down view of a grey launch pad assembly. The assembly consists of a central rectangular cardboard pad held within a grey plastic frame. Four white launchers are positioned at the corners of the pad, each with a grey base and a white top. The launchers are oriented towards the center of the pad. The entire assembly is placed on a light-colored wooden surface.

Launch pad close

For the assembly of the rocket, I chose to show it as seen from the Launch Utility Tower

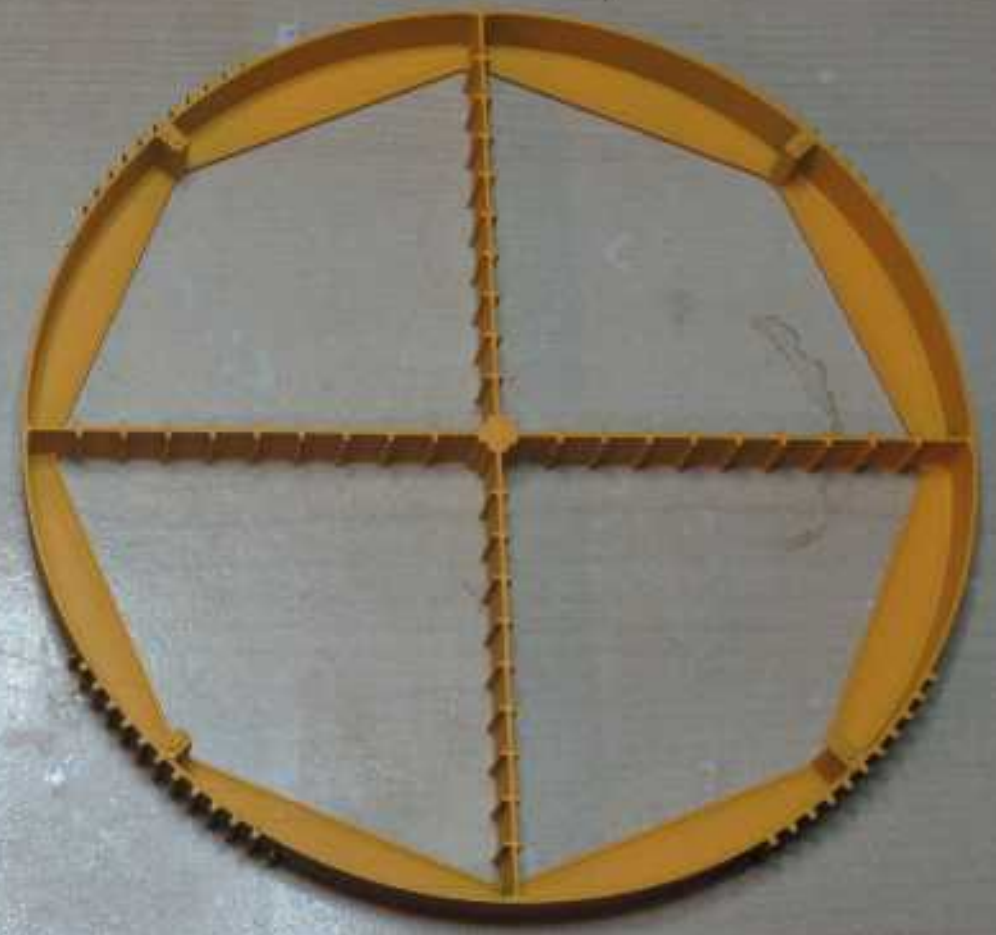
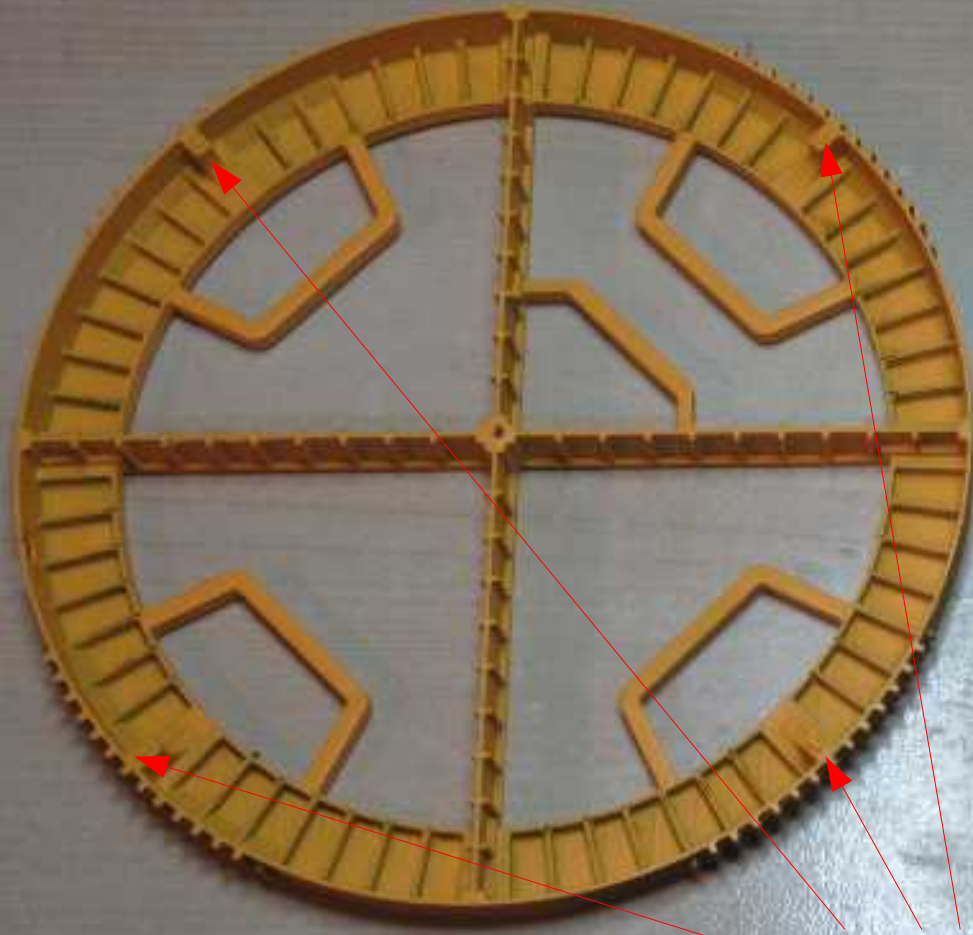
A view to position II



Module 01

Y 01

Y 02



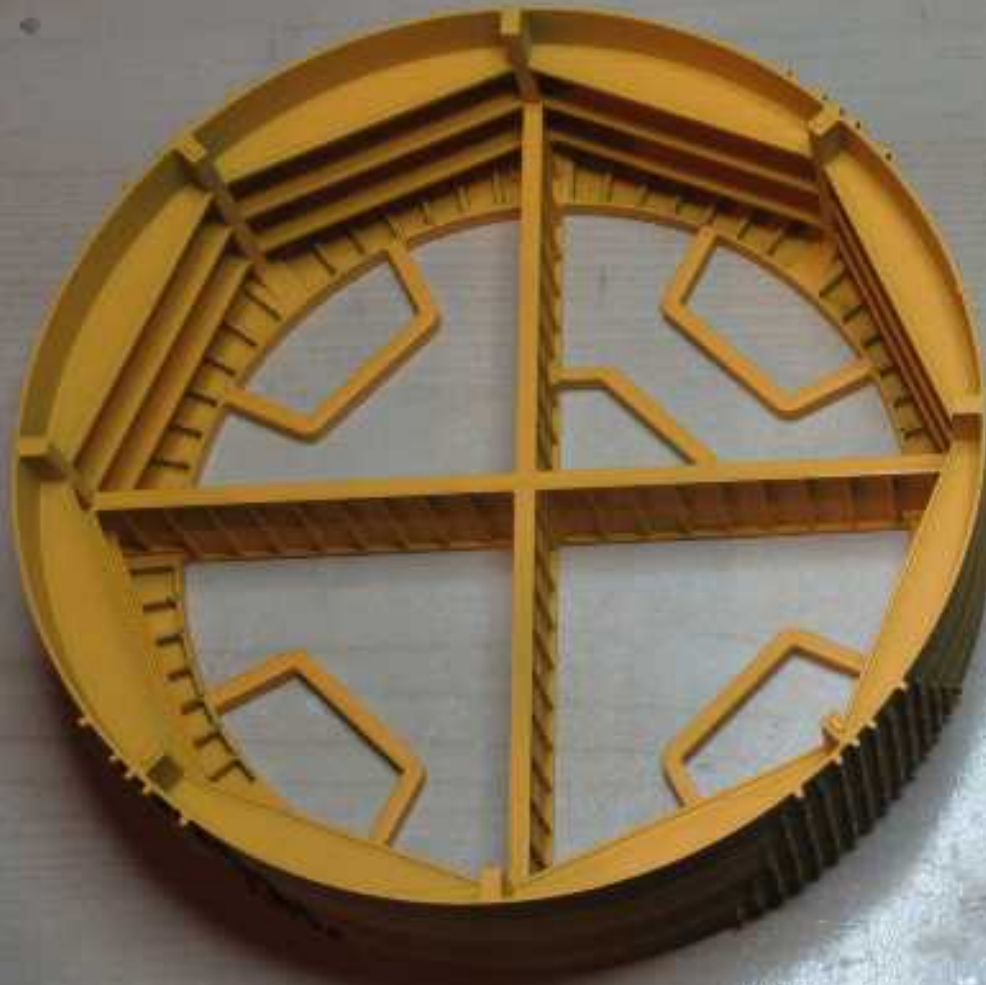
Use the 4 guide pawns for assembly

Y 03



Y 04





Y 05



Y 06





Y 07





pieces to be painted  
yellow afterwards



Y 08 x4

Y 10 x4

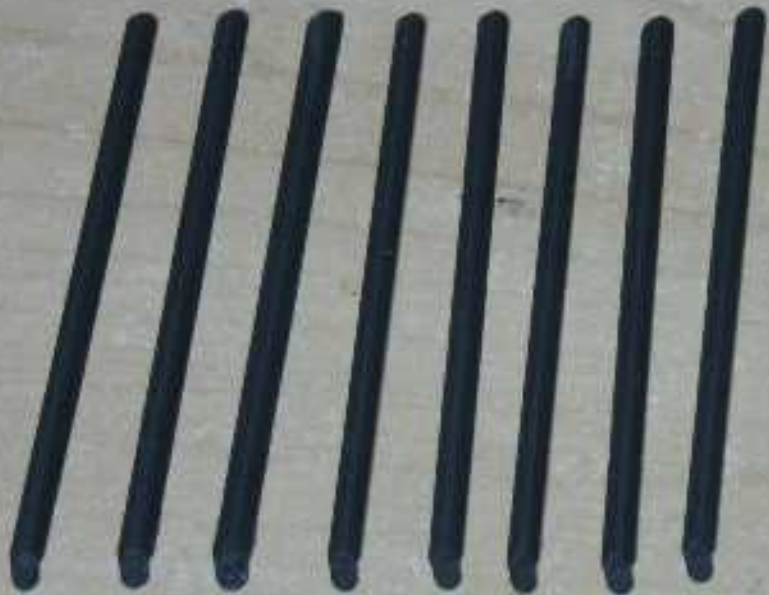


Y 09 x4

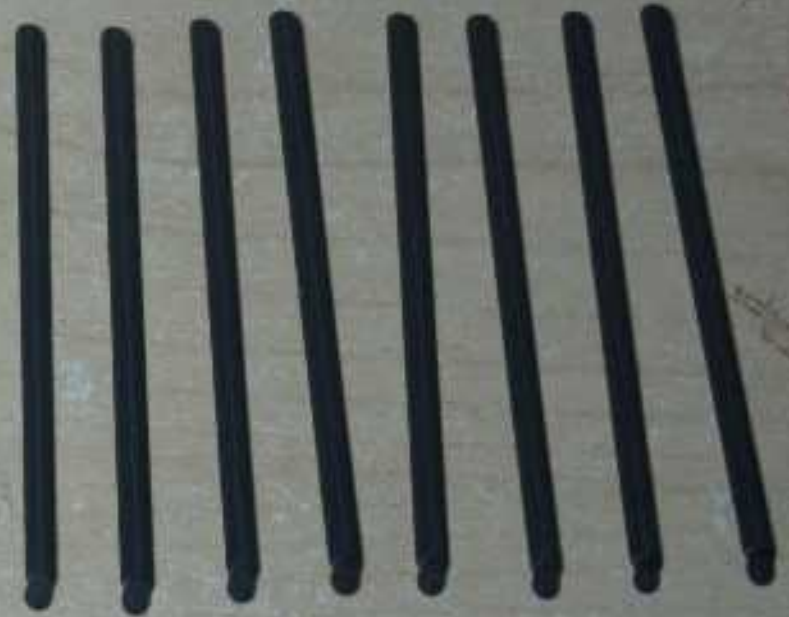
Y 11 x4







Y 12 x 8



Y 13 x 8







Y 10 11

Y 08 09



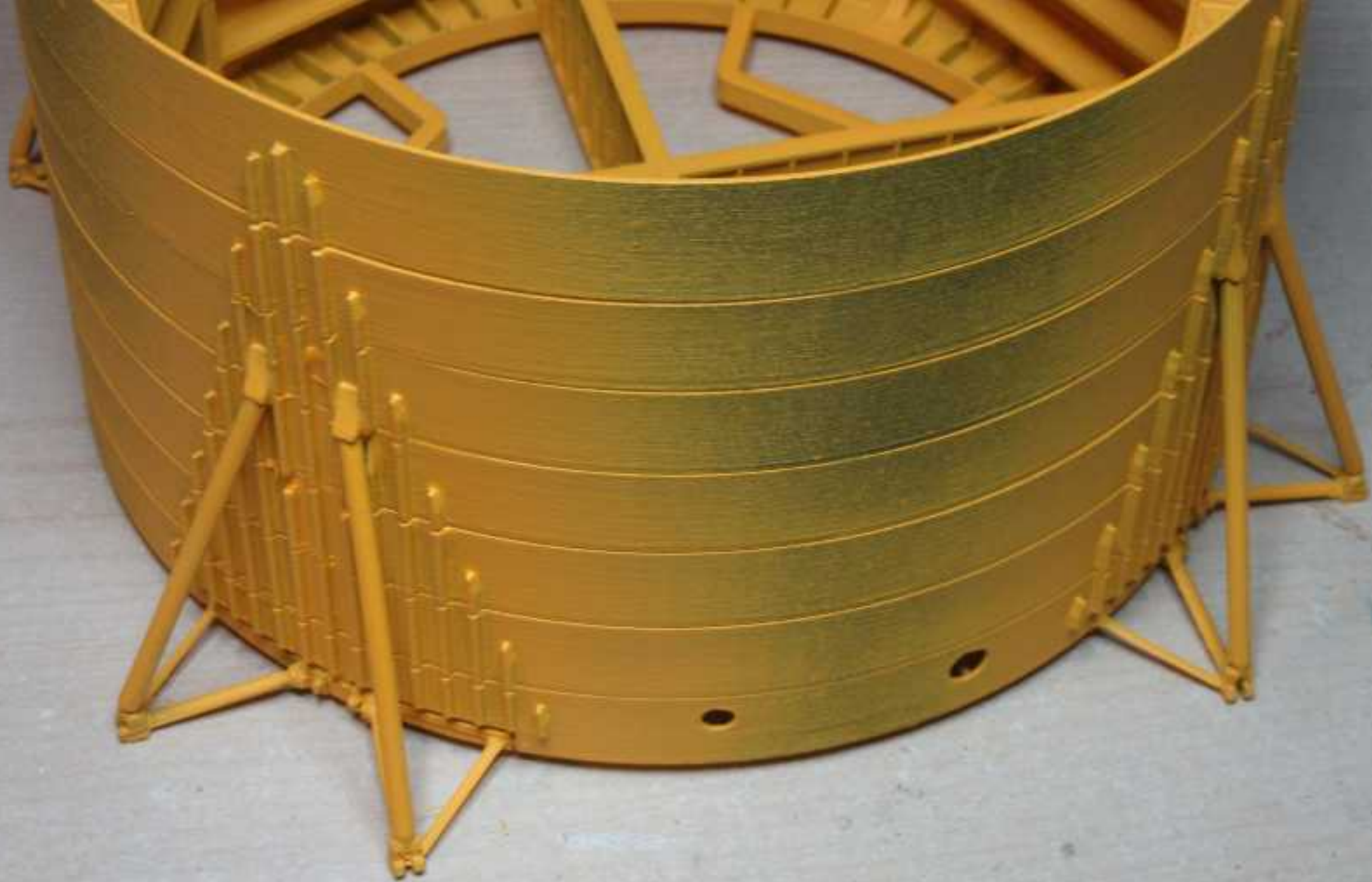




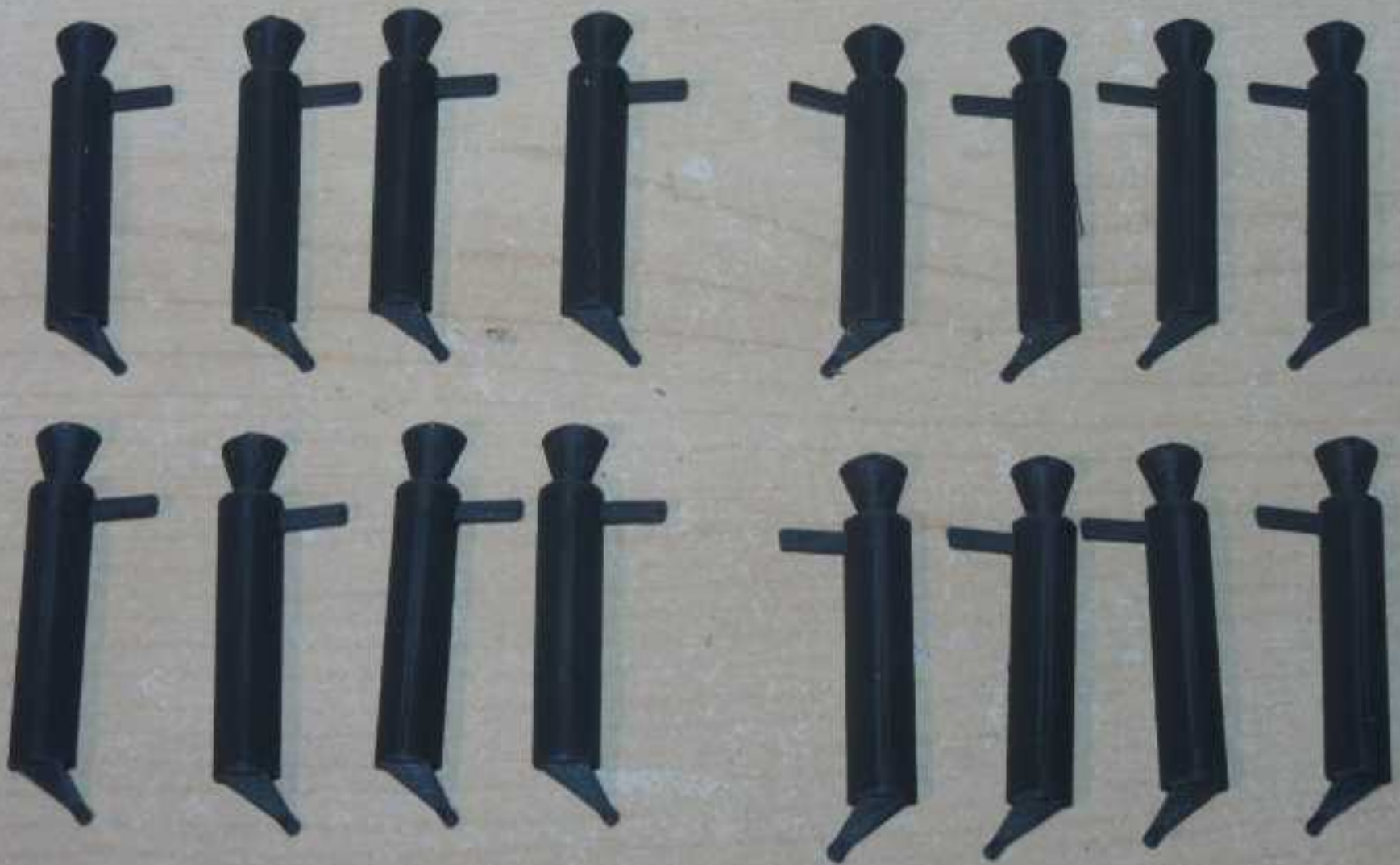
Light angle







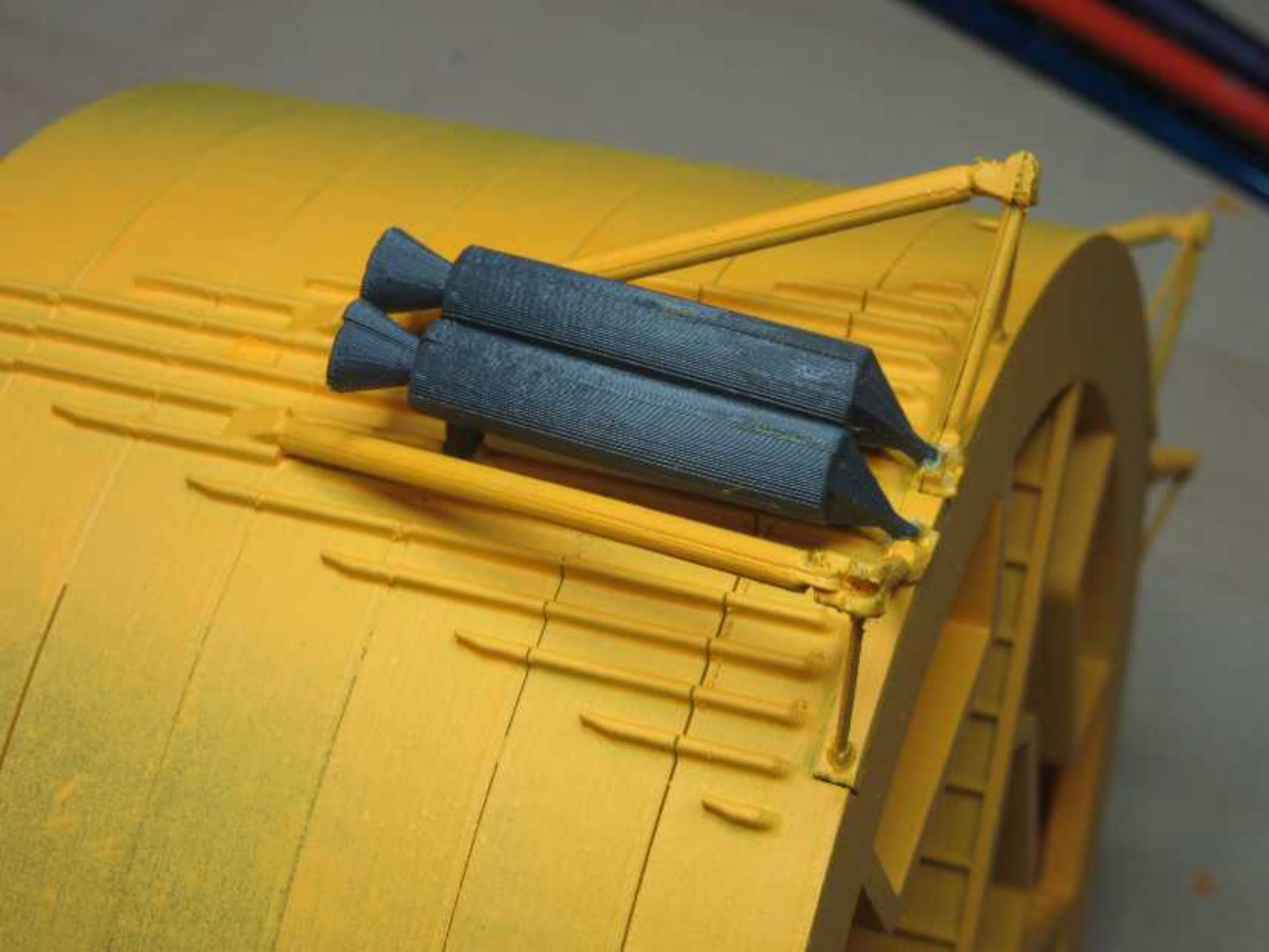
After painting



Y 15 x8

Y 14 x8









Fairing position I



W 01



B 01

In this pack, you find a file "fairing compl" if you prefer to paint this part



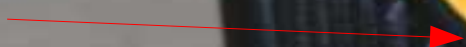
Yellow painting

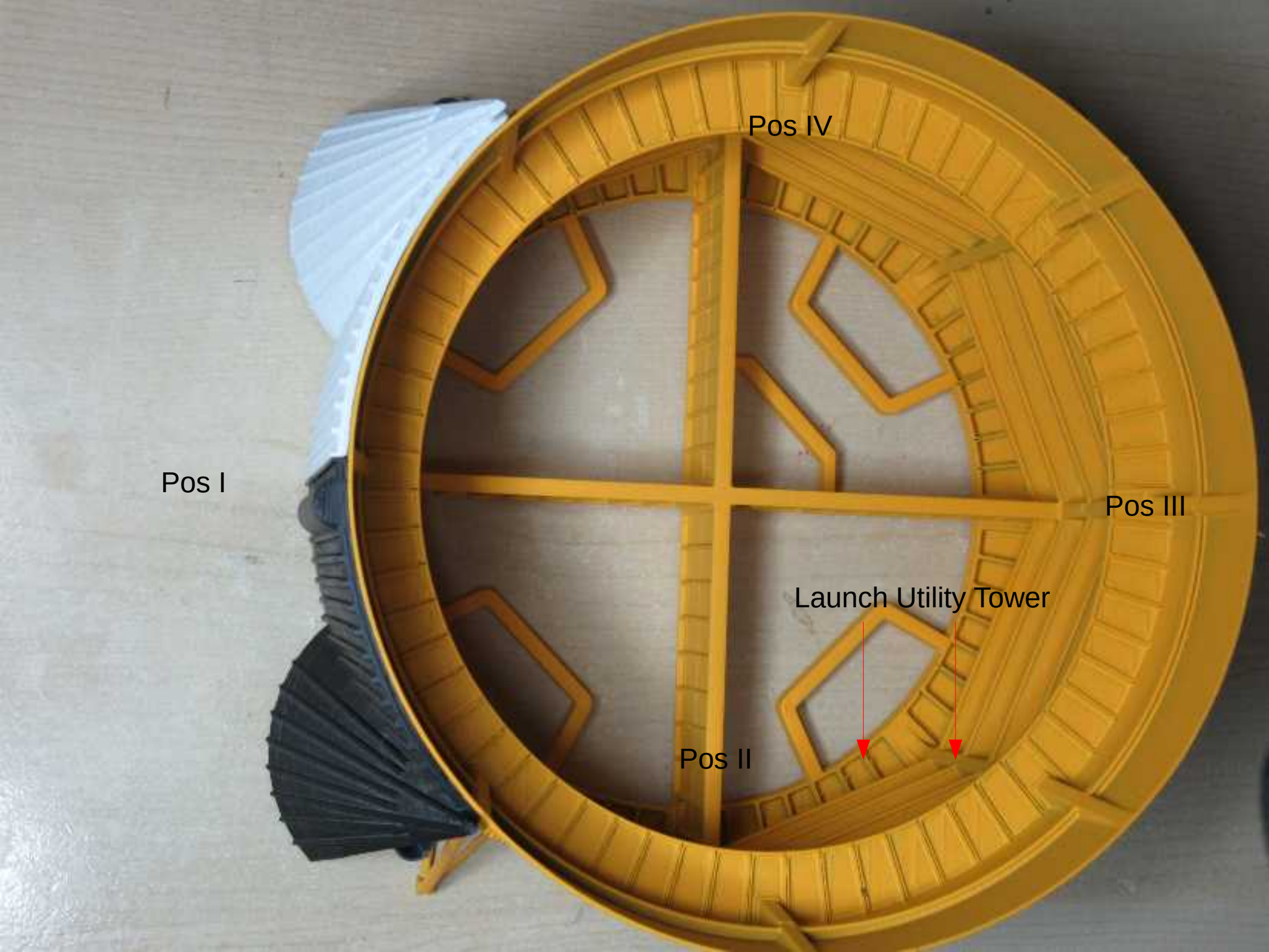
Fairing position I (left side from tower view)

One hole (fill drain RP1)



Same level





Pos IV

Pos I

Pos III

Launch Utility Tower

Pos II

Fairing position II



W 02



B 02





I

II

III

Fairing position III



W 03

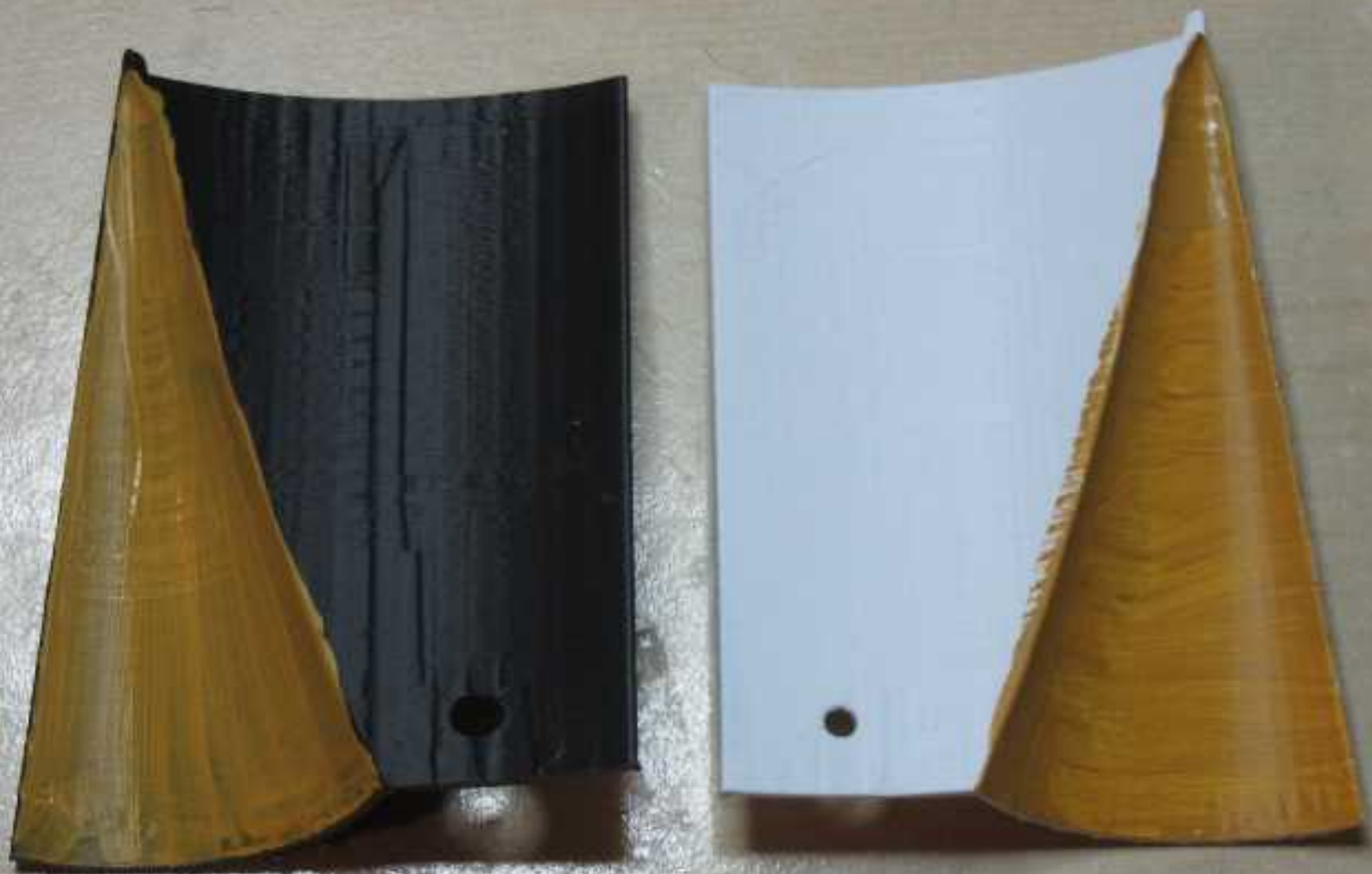
He line



B 03

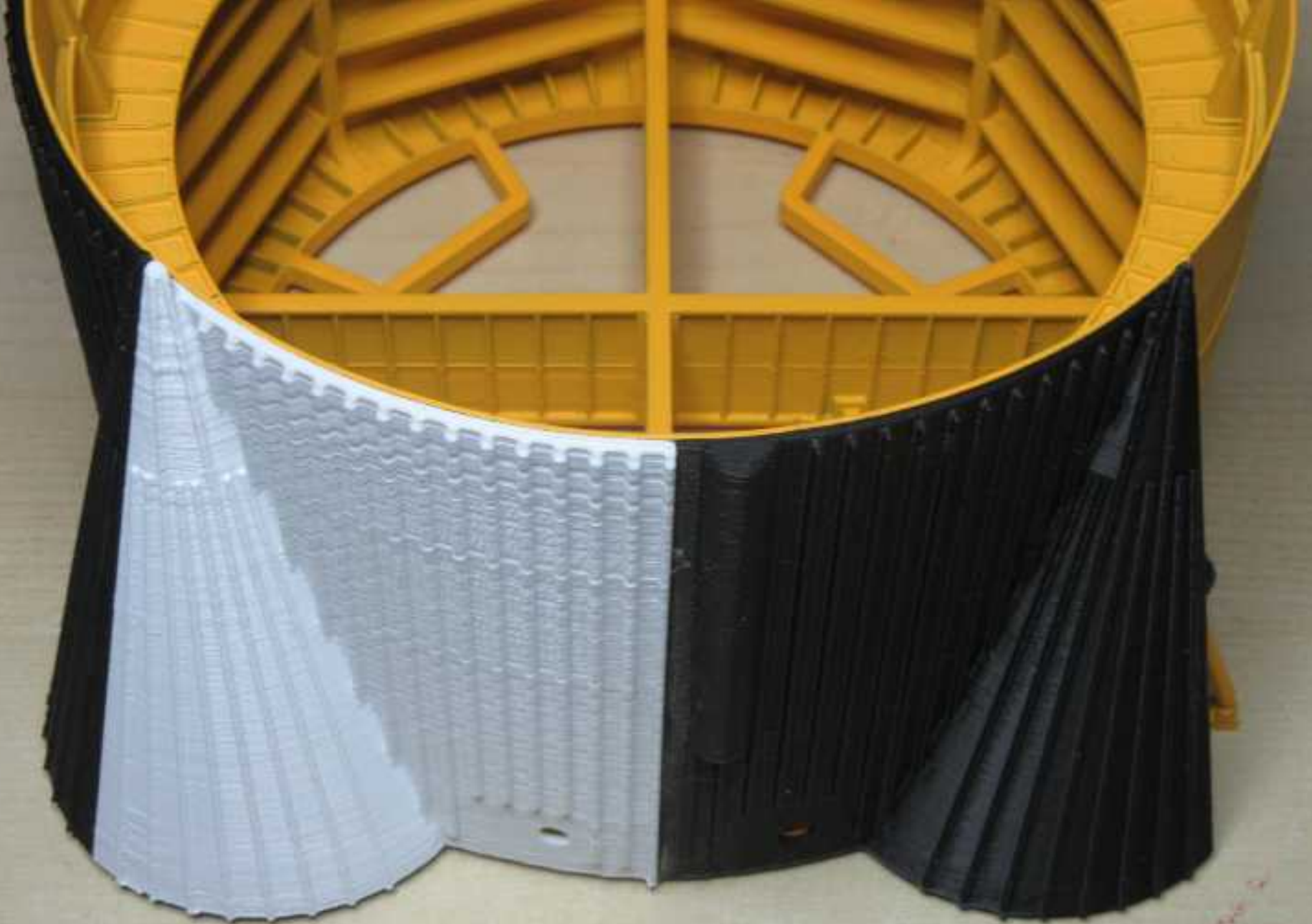
electrical





II

IV



III

Fairing position IV



W 04



B 04





III

I

IV



S 01



S 02



S 03

S 04

RP1 line



Helium line





IV

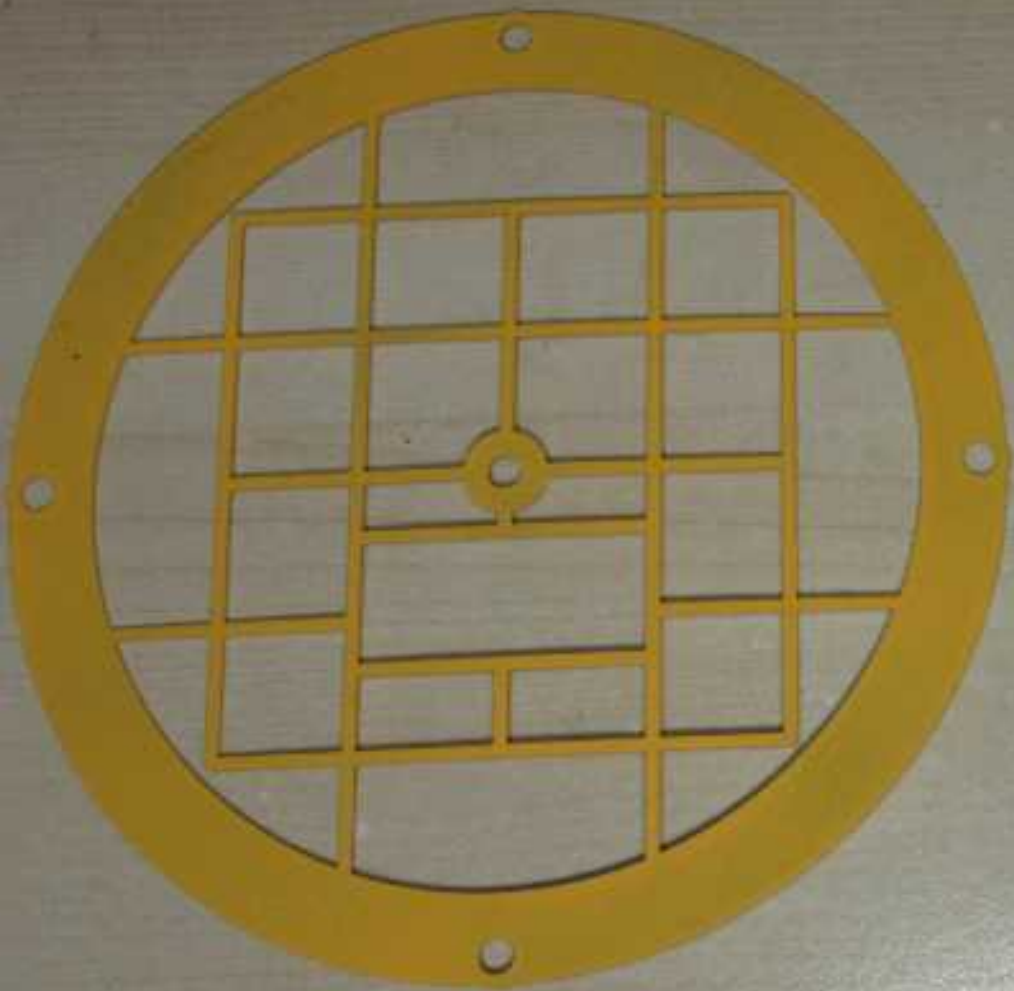
III

I

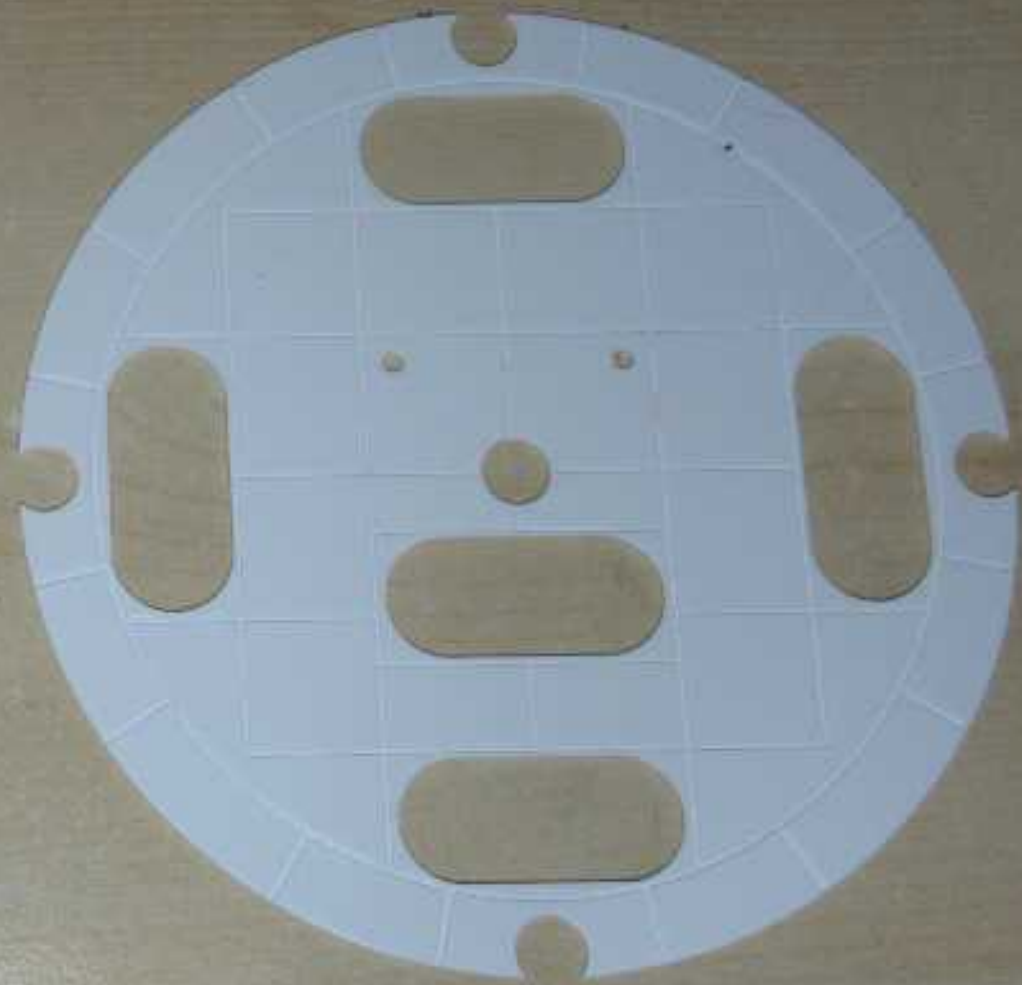
II







Y 16



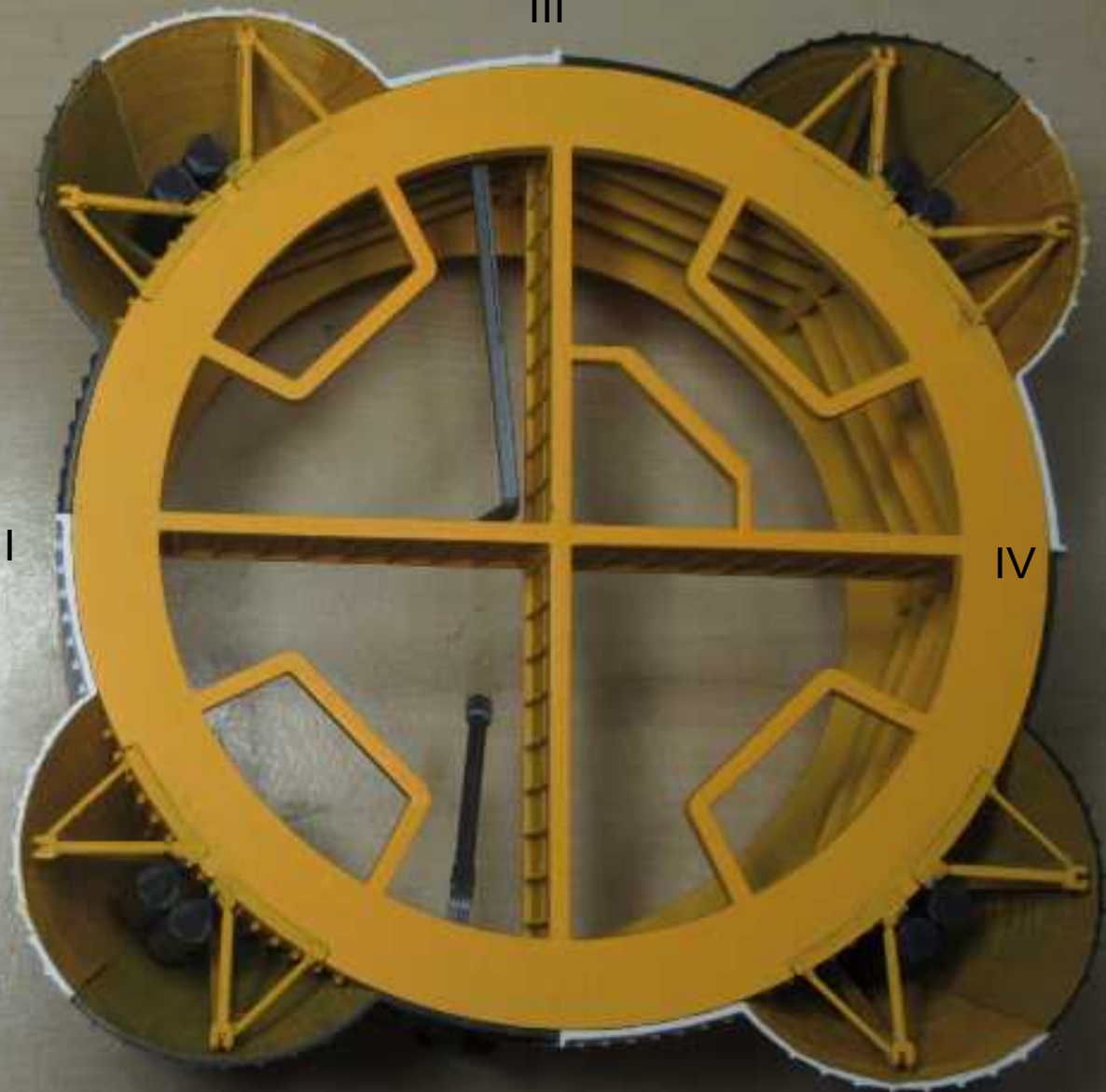
W 05







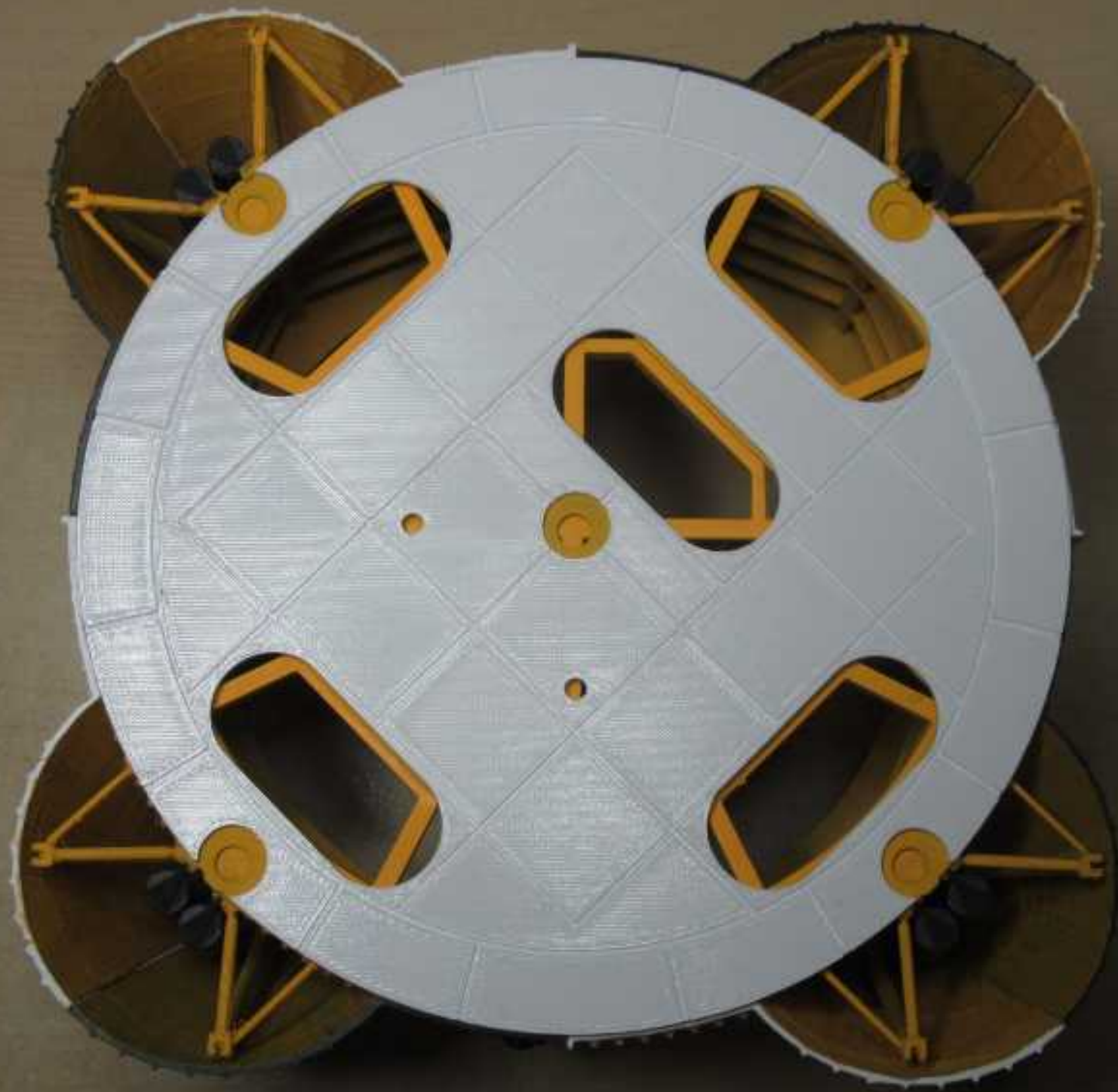
II

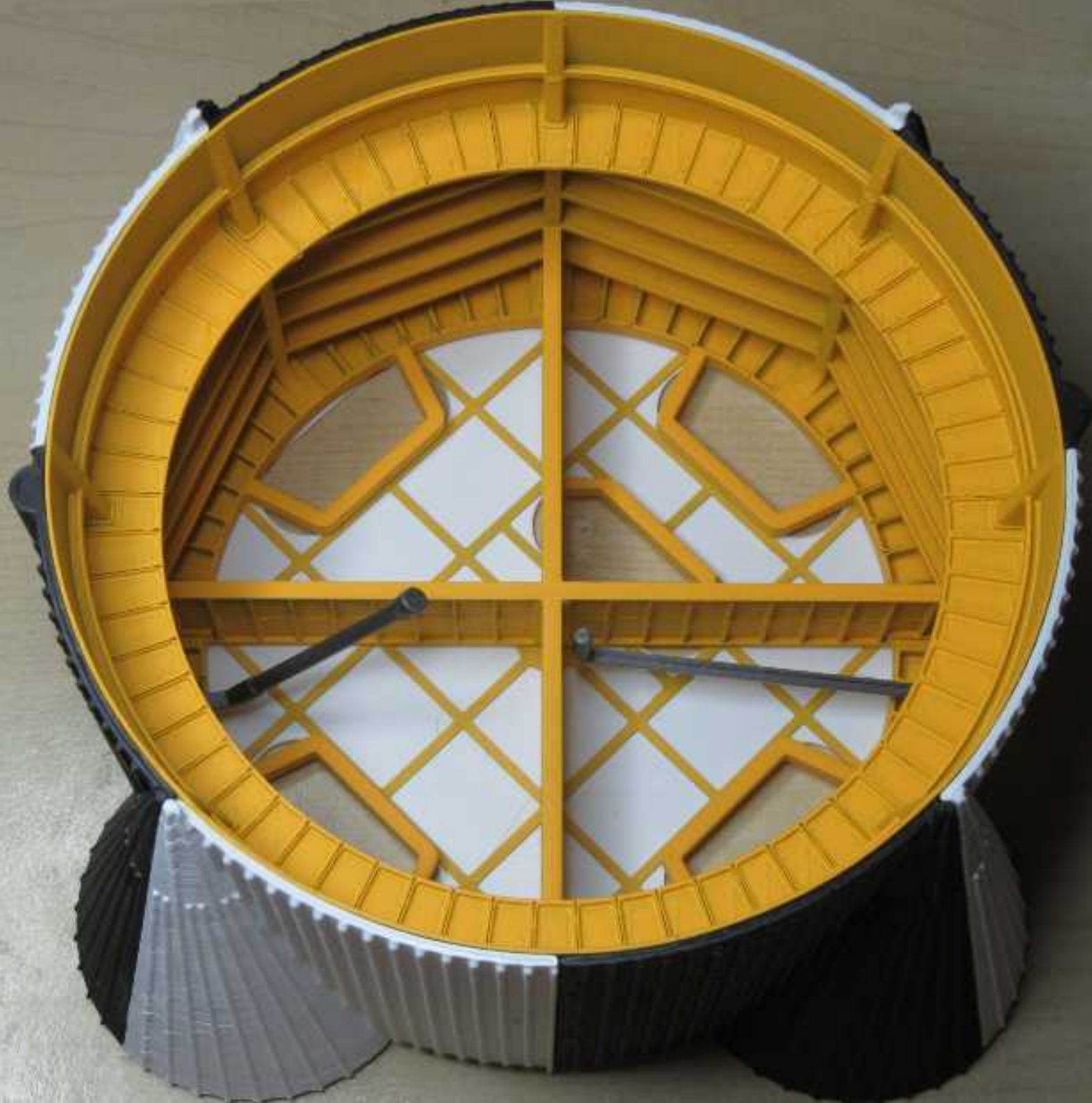


III

IV

I





S 05 x5

S 06 x5

RP1 line

S 07 x10







S 08 x5



S 09 x5



Note the exhaust turbine position  
For each F1 motor





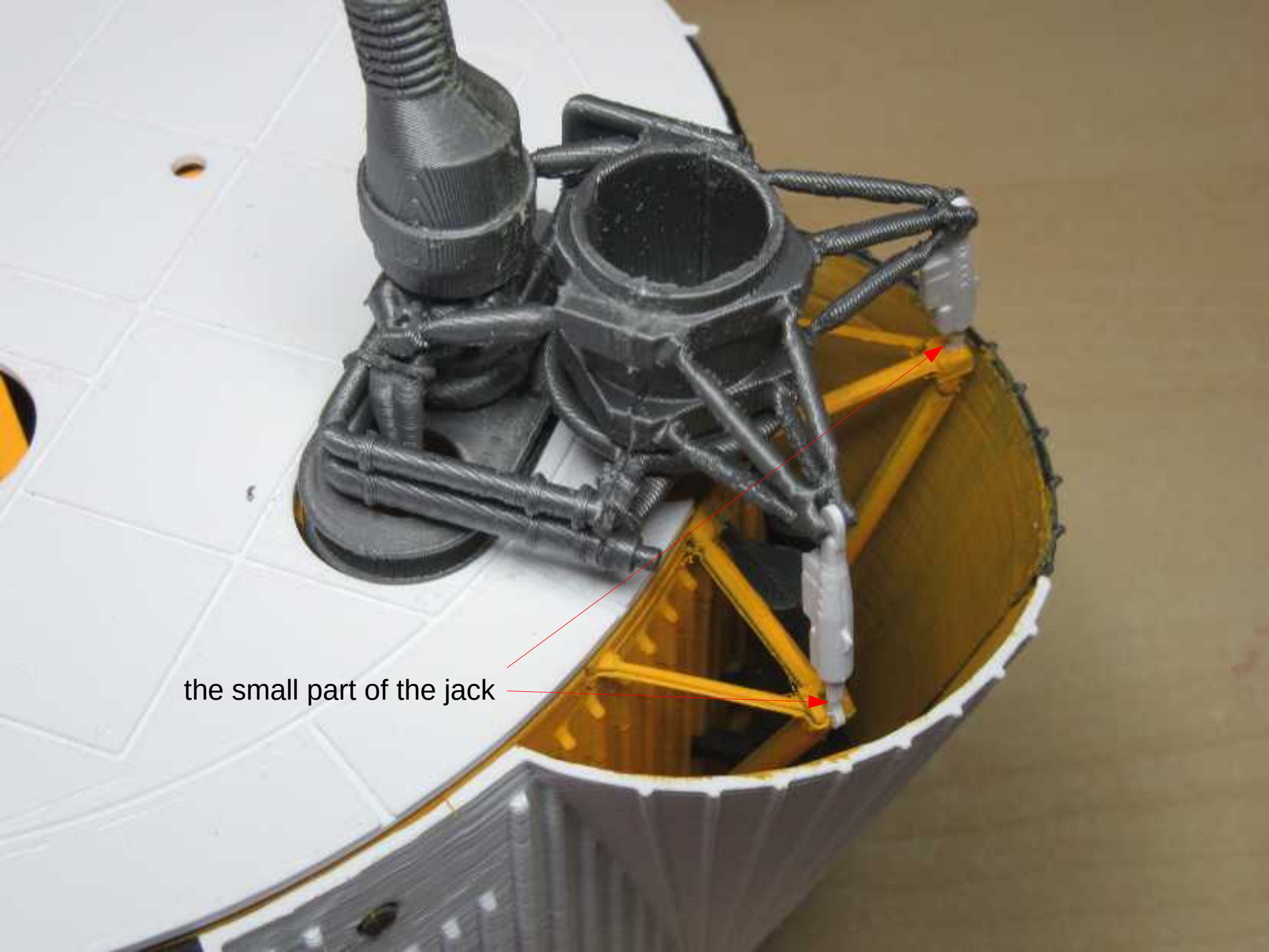
mechanical fasteners

connecting the propellant pipes

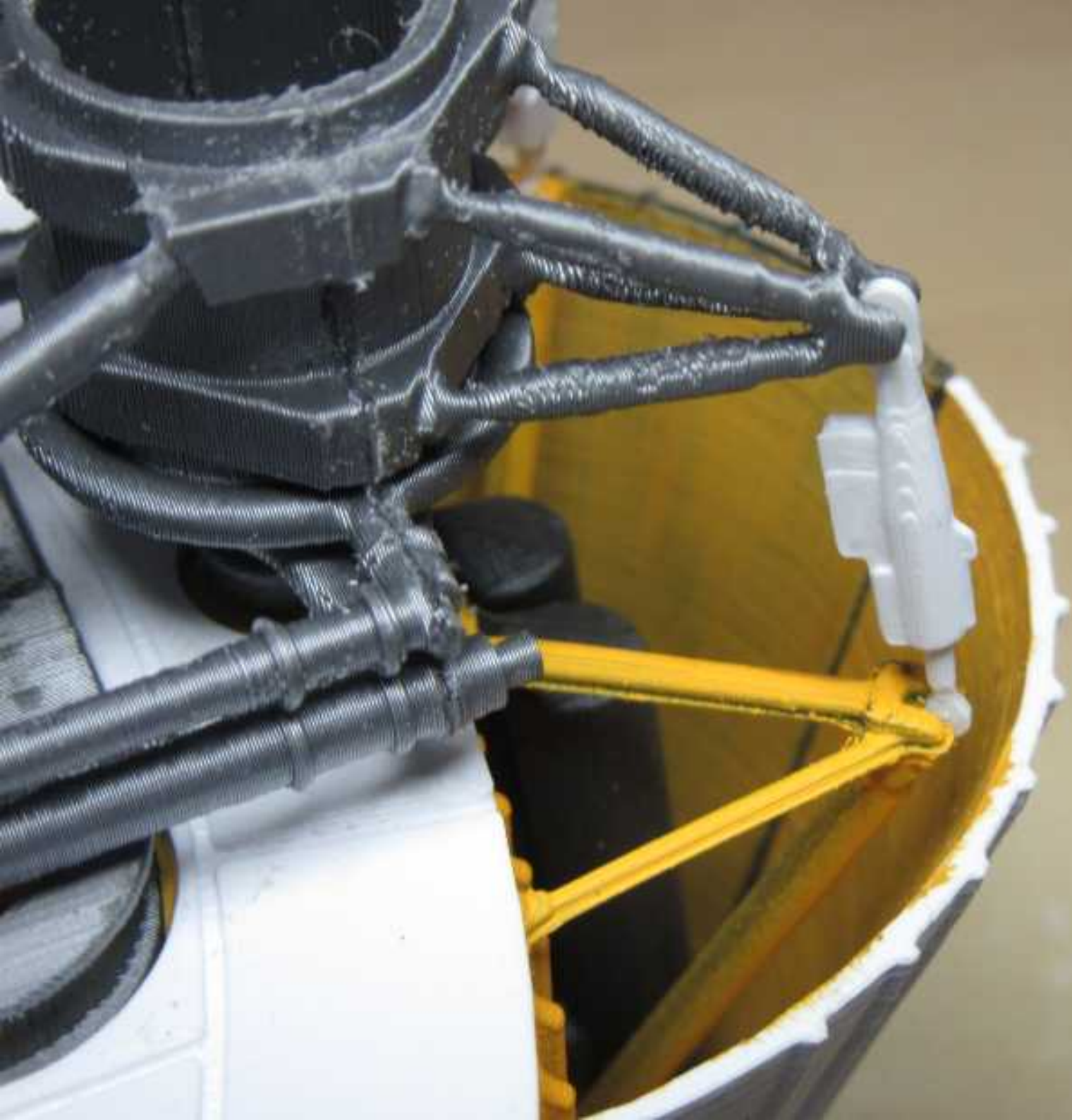
W 06 x8  
W 07 x8







the small part of the jack









S 10 x2









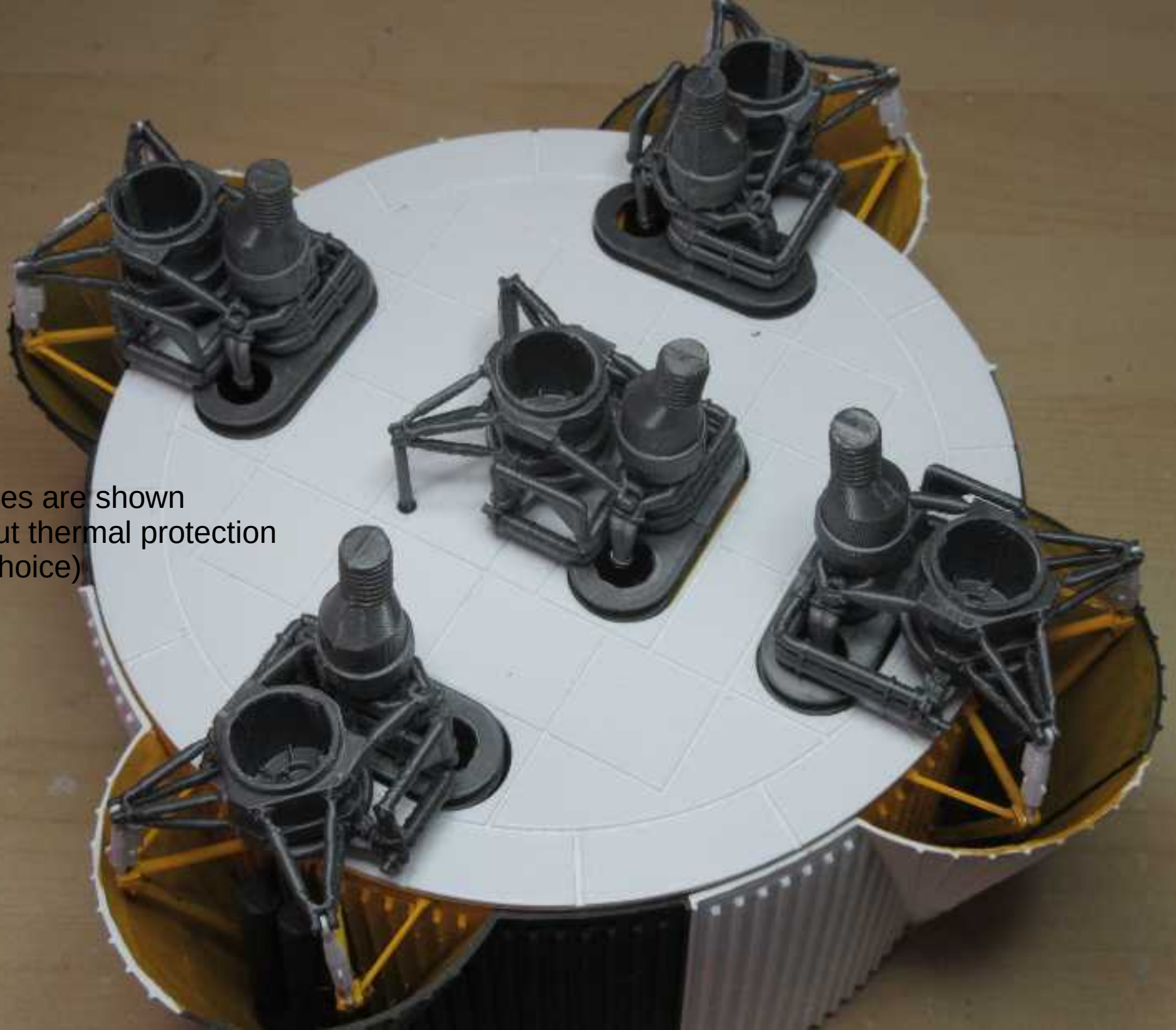






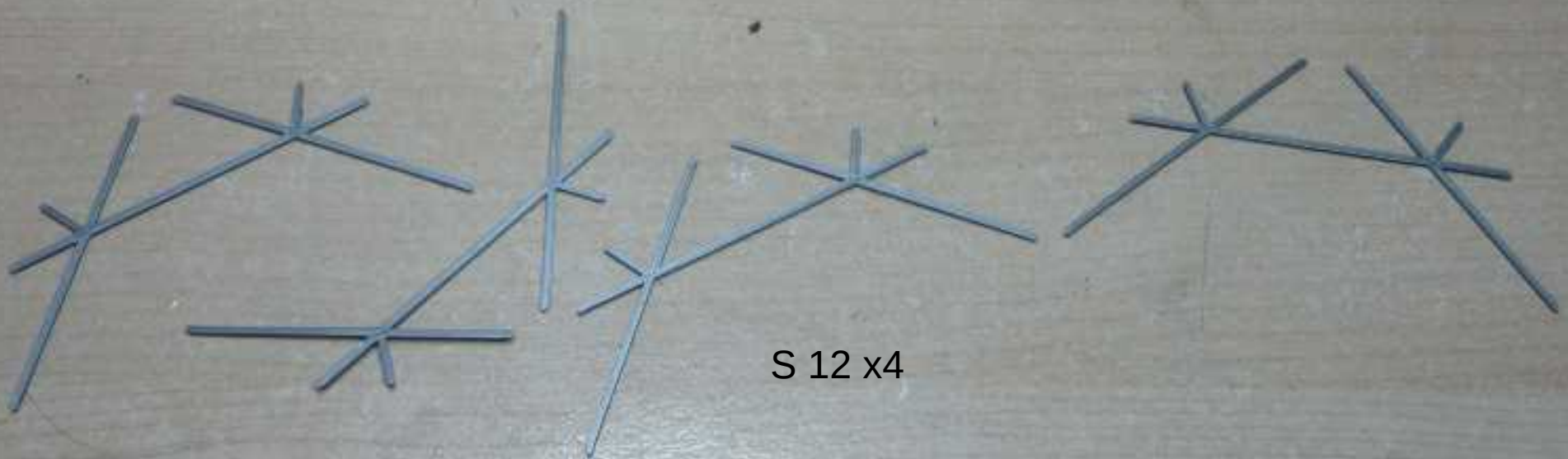


Engines are shown  
without thermal protection  
(my choice)





S 11 x4

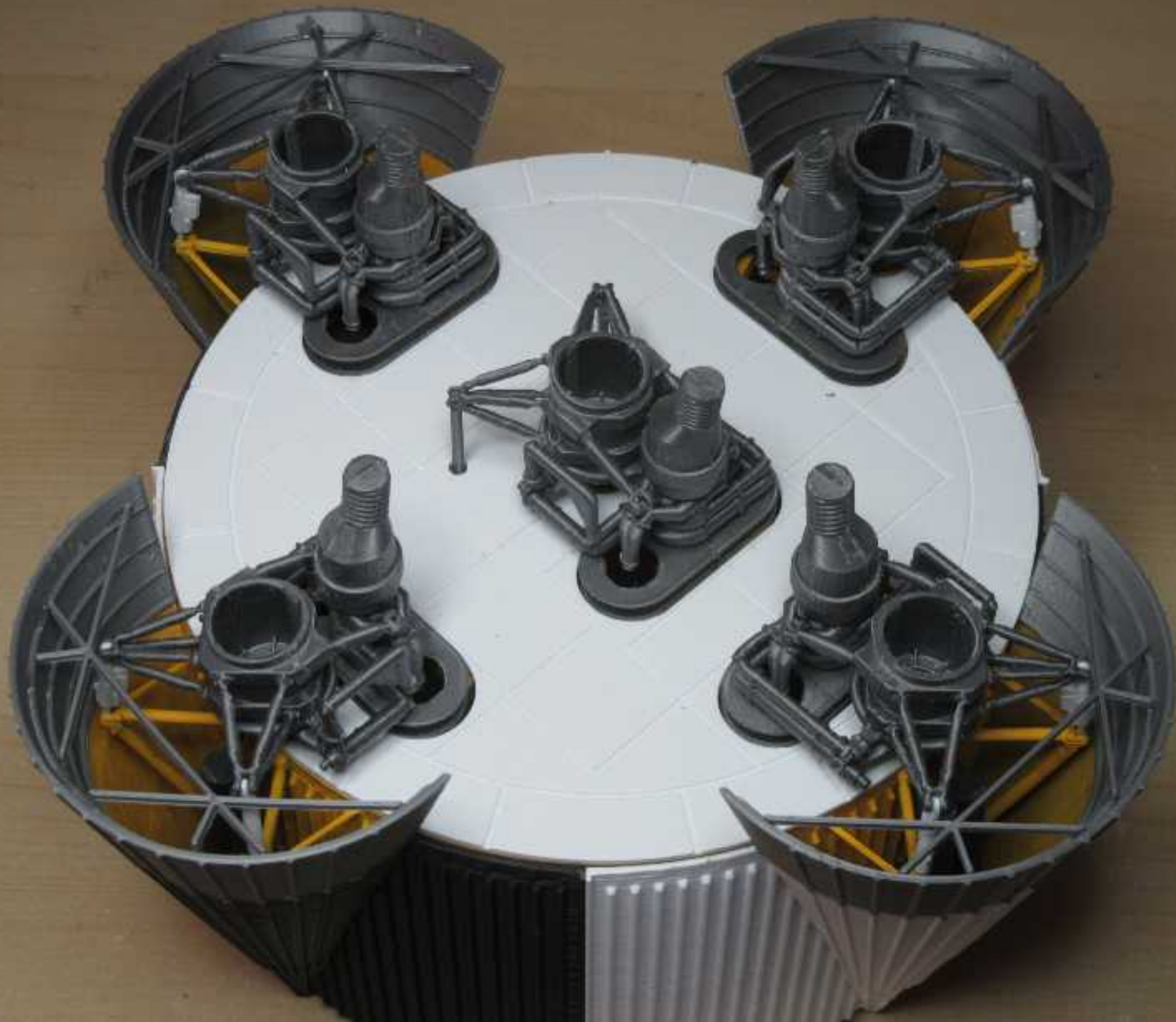


S 12 x4



Upper the third line





S 14 x5



S 13 x5





Glue zone



Circular gas turbine exhaust !













For this print, you must align the STL files in the slicer and print them one after the other, without removing the previous print

W 08 x2  
B 05 x2

Printing upside down for best quality

Use the control marker



S 15 x4



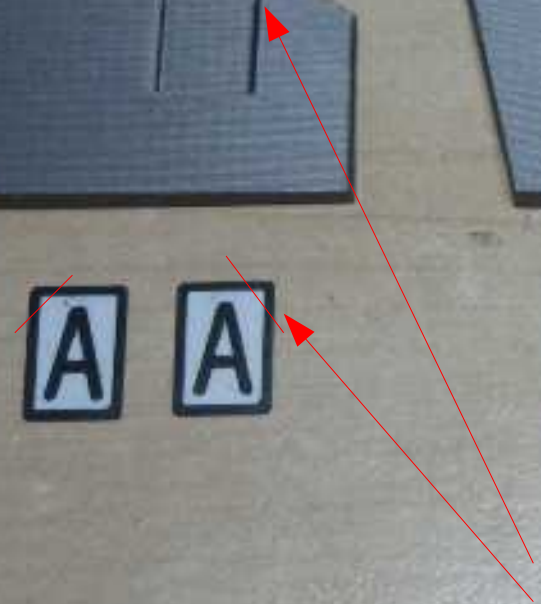
A A

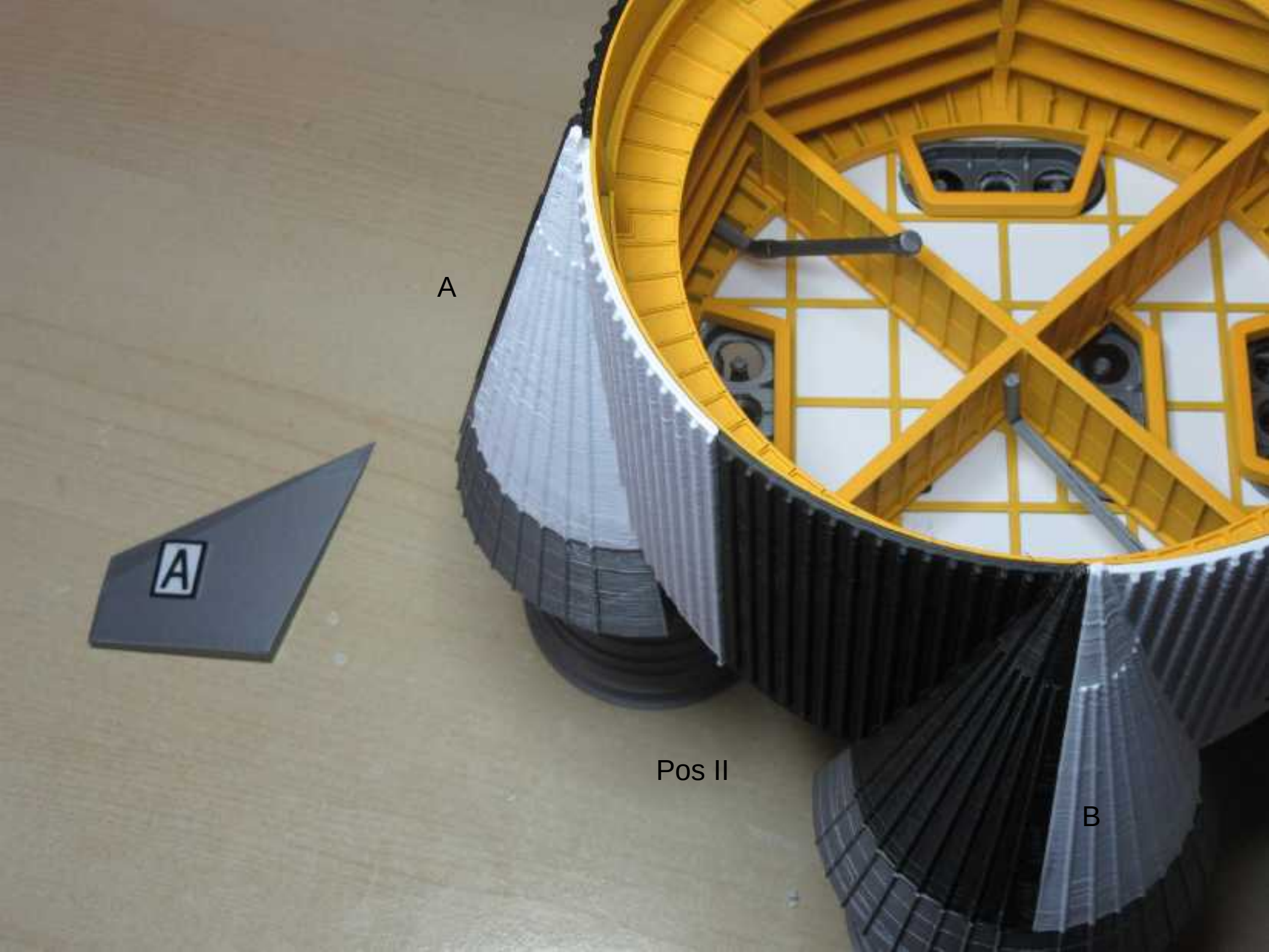
B B

C C

D D

bend the corners



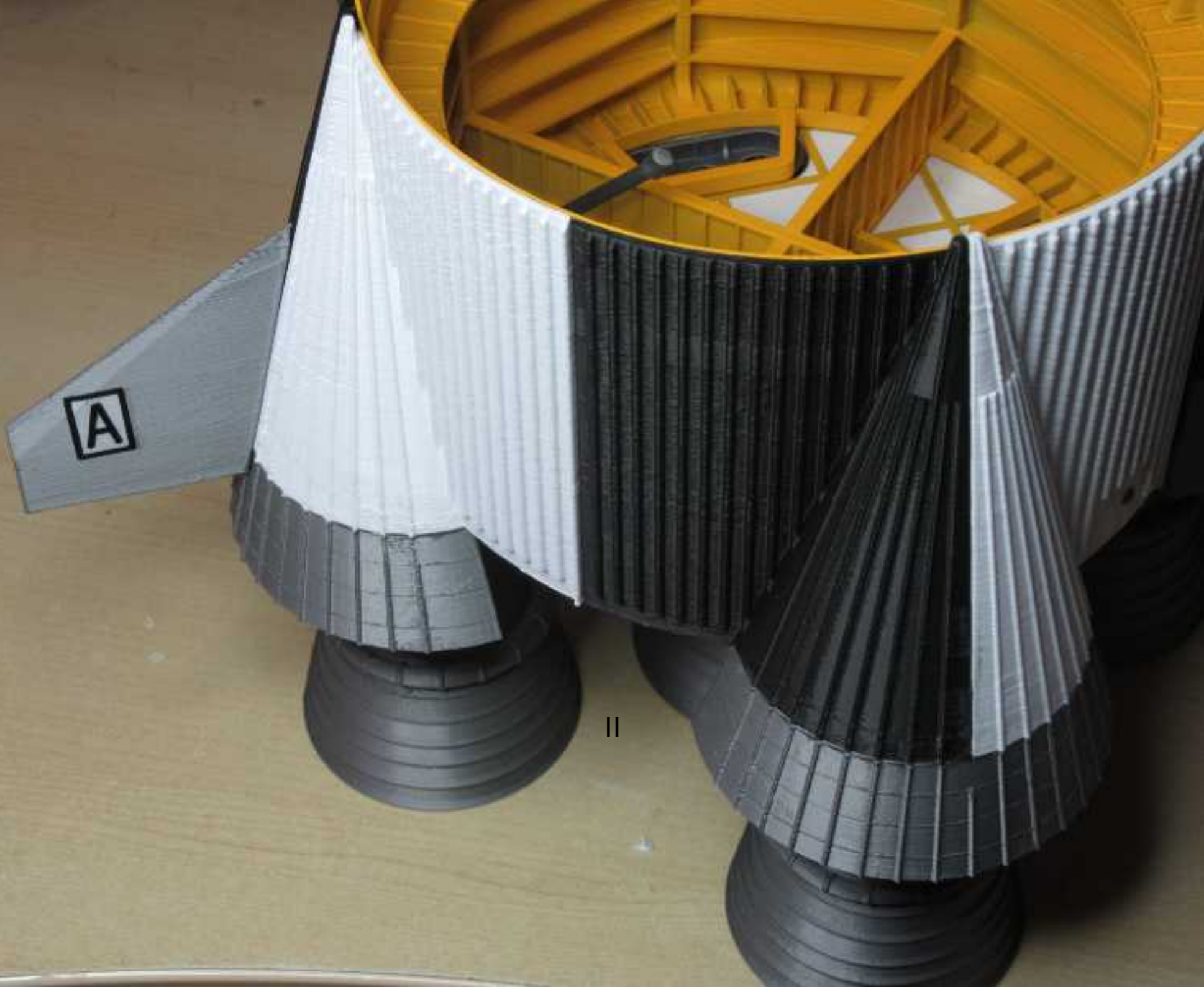


A

A

Pos II

B




A

||



Pos II

A photograph of a model rocket engine nozzle assembly. The assembly consists of a central black nozzle section with a white textured upper section. Two grey nozzle skirts are attached to the sides, labeled 'B' and 'C'. The nozzle is mounted on a black base with a flared bottom. The background is a light-colored wooden surface.

Pos III



Pos IV

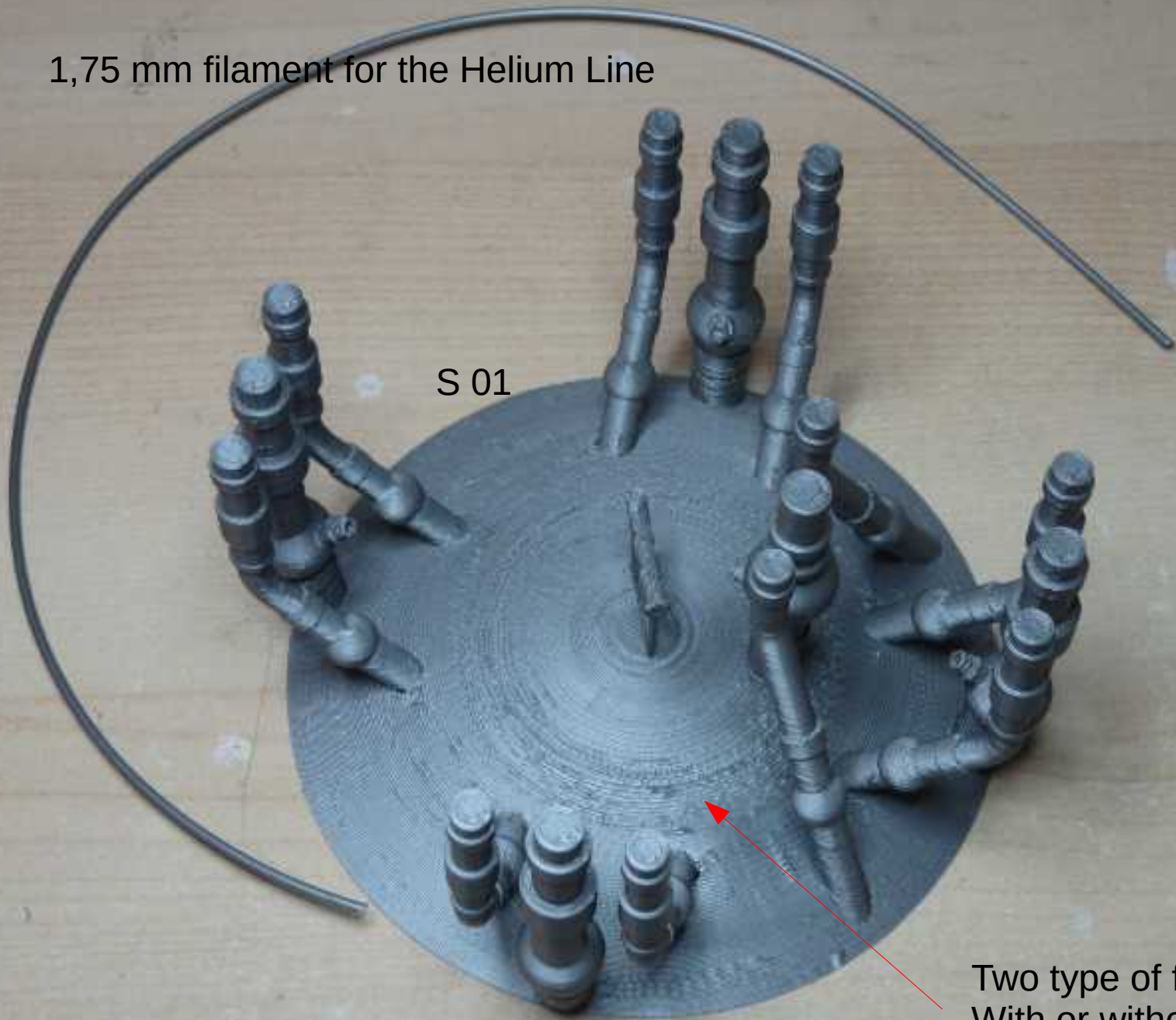


Pos I



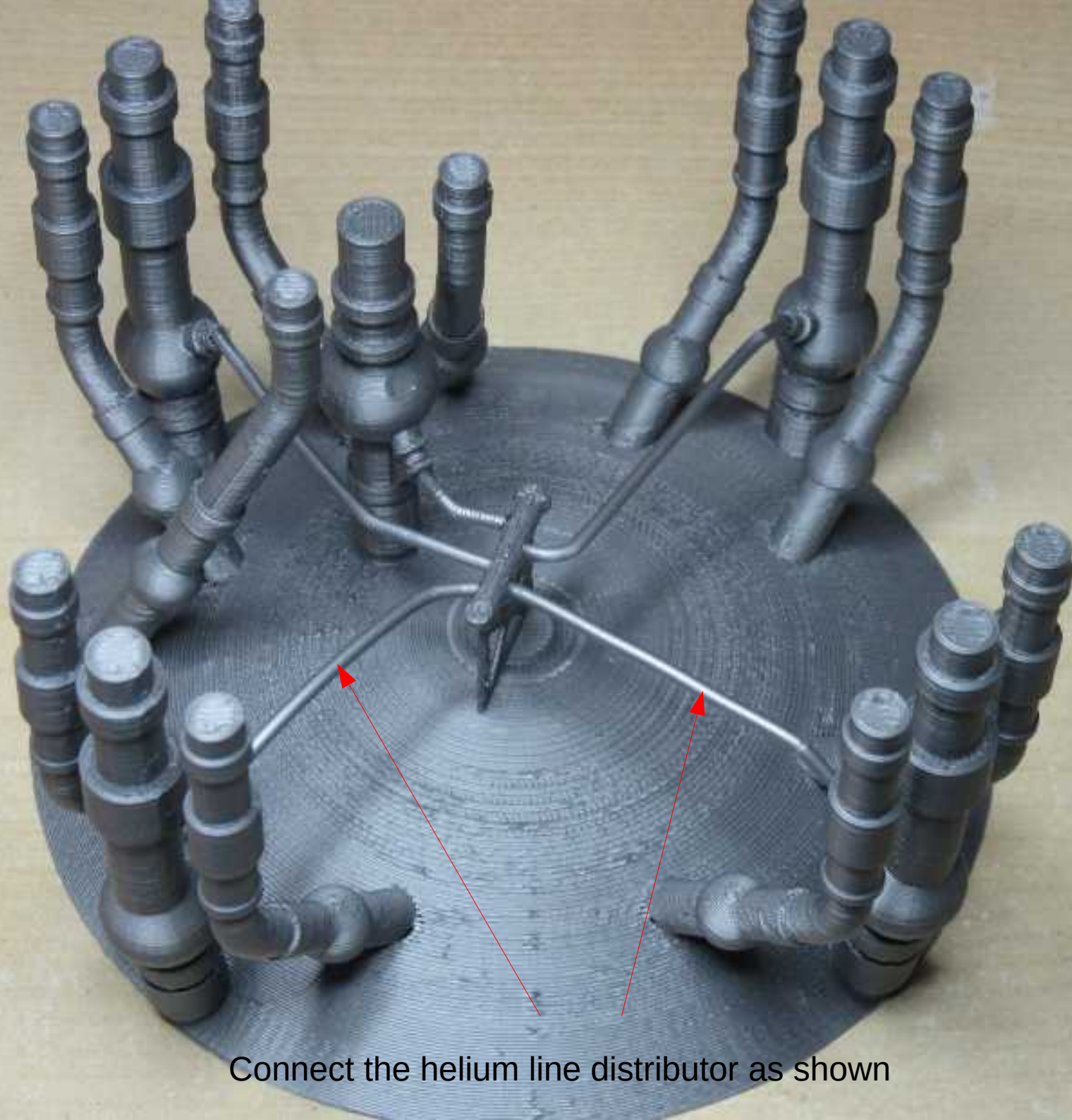
Module 02

1,75 mm filament for the Helium Line



S 01

Two type of file available  
With or without support



Connect the helium line distributor as shown



S 02

LOX line mark must be located 45° from RP1 baffle







S 03

S 04

S 05 x4

S 06 x4





S 07





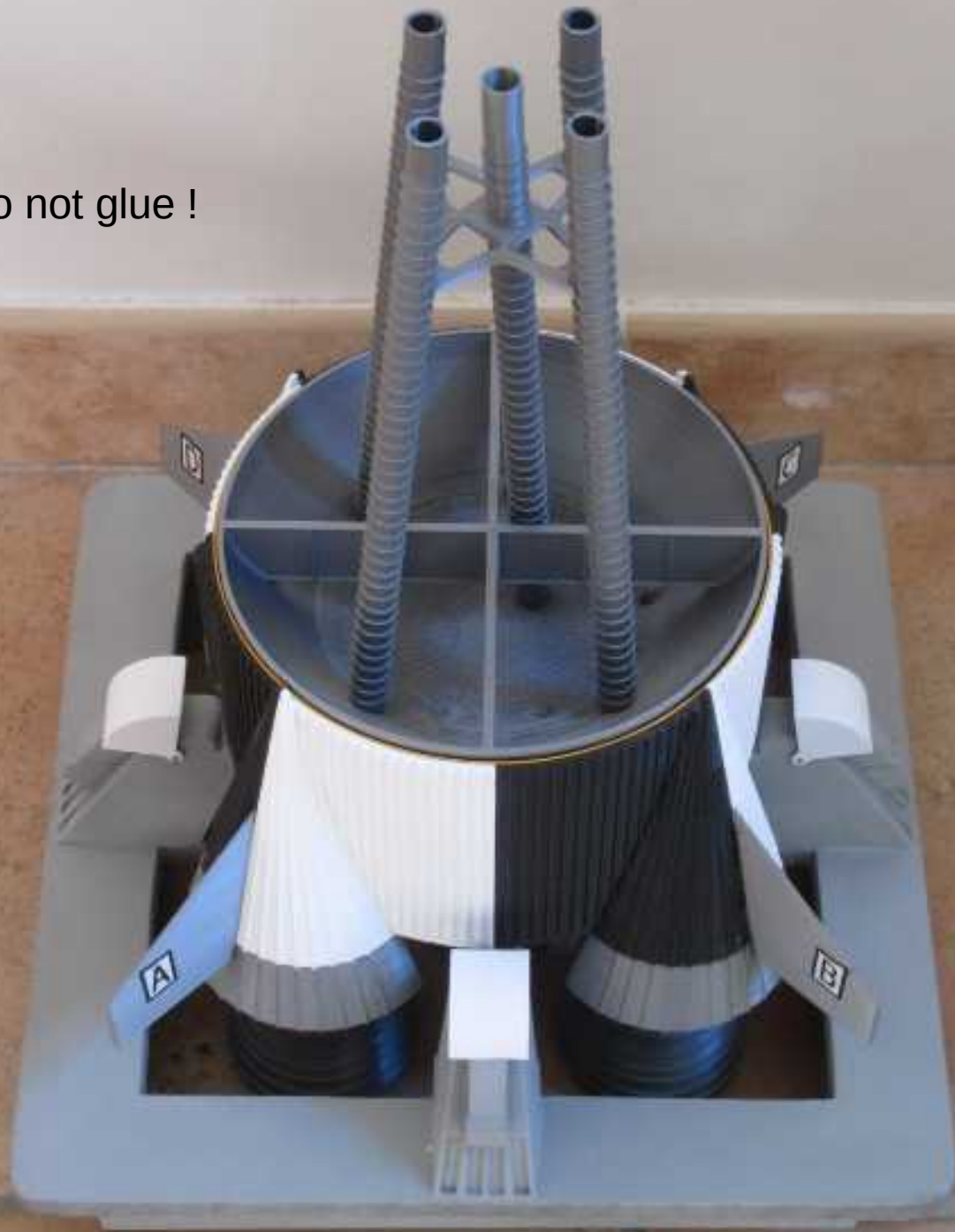
The 5 LOX mark







Do not glue !



For this print, you must align the STL files in the slicer and print them one after the other, without removing the previous print

Module 03

Printing upside down for best quality

Use the control marker



W 01  
B 01  
R 01 x4

In this pack you will find a file "B 05 flat" if you prefer paint this part

A

2

n



W 02  
B 02  
R 01 x4



W 03  
B 03  
R 01 x4





W 04  
B 04  
R 01 x4

B 05

U  
S  
A



U  
S  
A



U  
S  
A

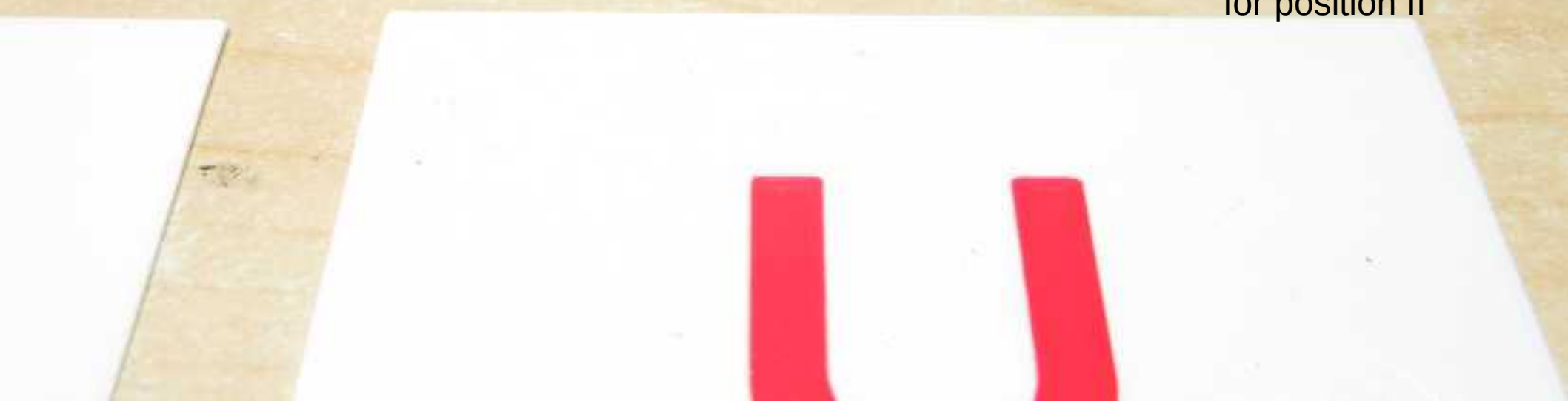


U  
S  
A





Note the notch  
for position II





And the bigger notch  
for position IV





U  
S  
A

Glue position II first

**U  
S  
A**



U  
S  
A



Then position IV

U  
S  
A



Position IV

II



Position I

**U  
S  
A**

**0**

U  
S  
A



II

III

IV

USA





S 01 x6



USA



3 mm

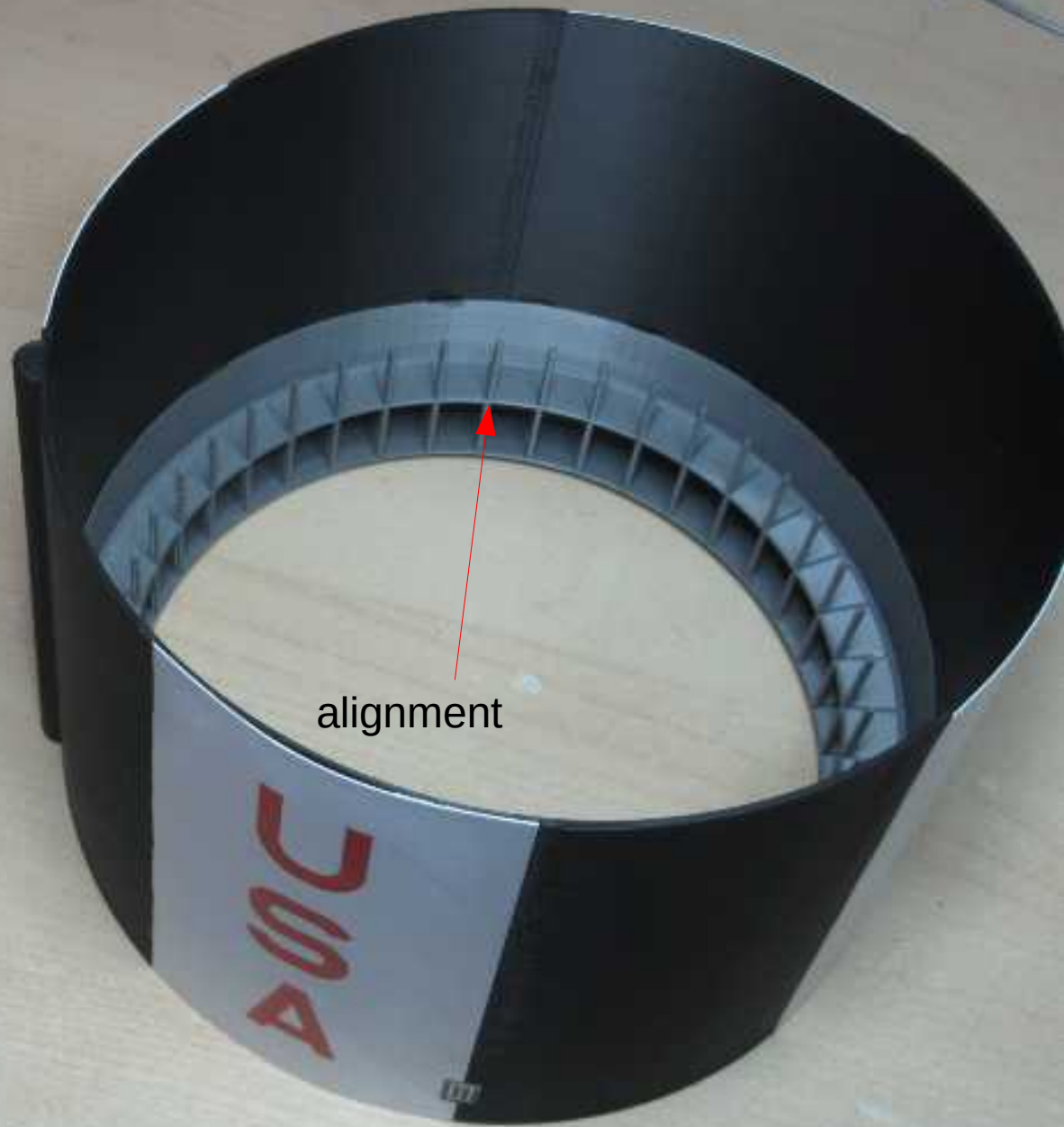


S 01 x6





S 01 x6



alignment



S 01 x6





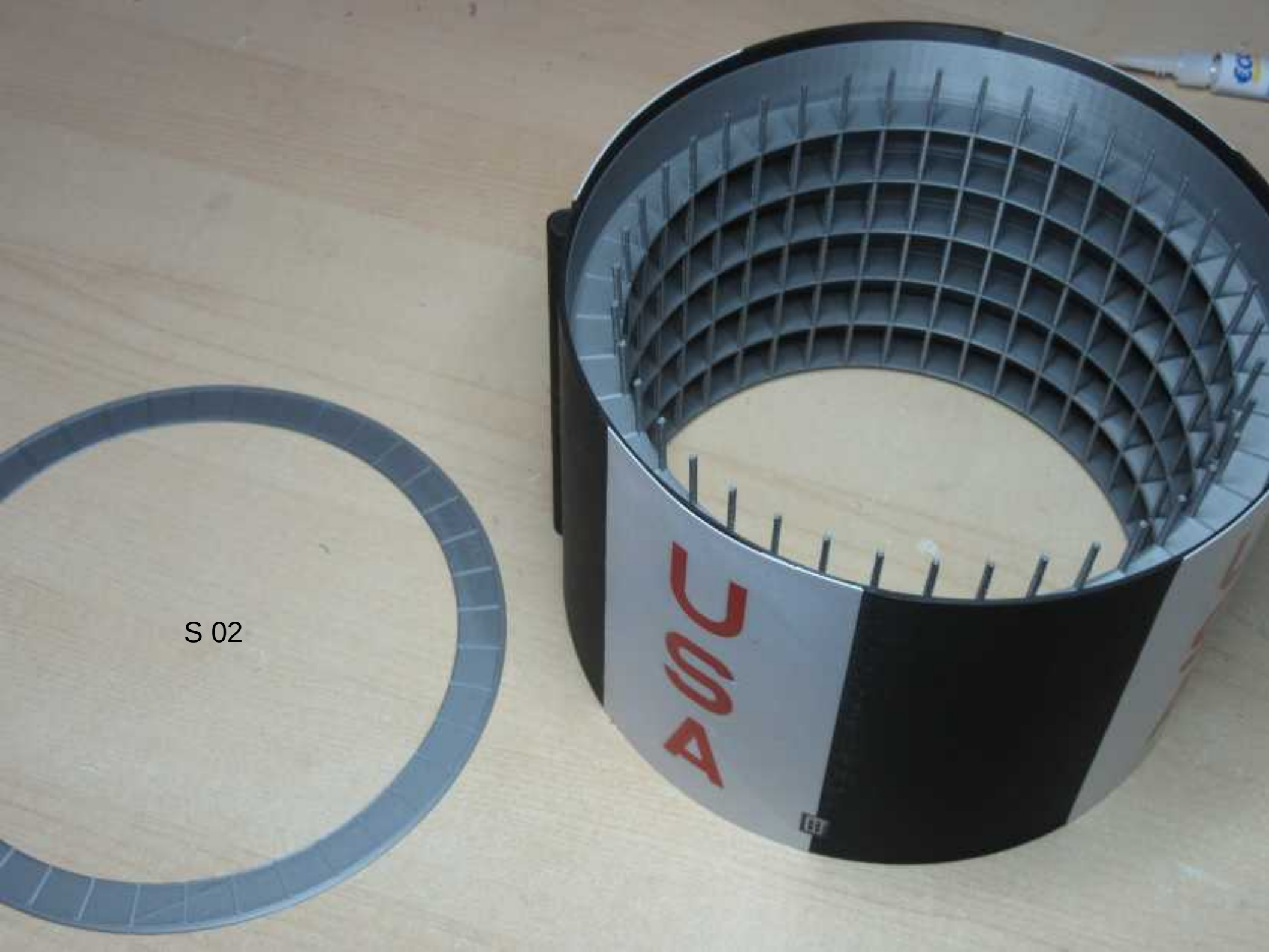
S 01 x6





S 01 x6





S 02





USA

Module 04



S 01

S 02



S 03



S 04



S 05



S 06



S 07 x4



S 08 x4







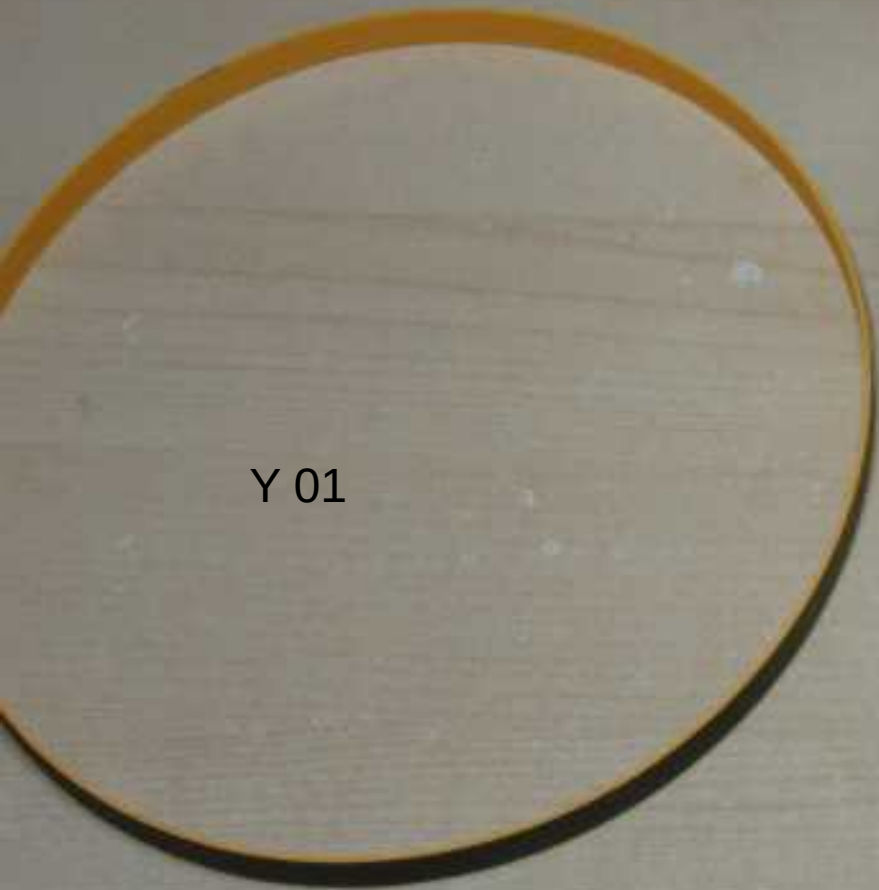




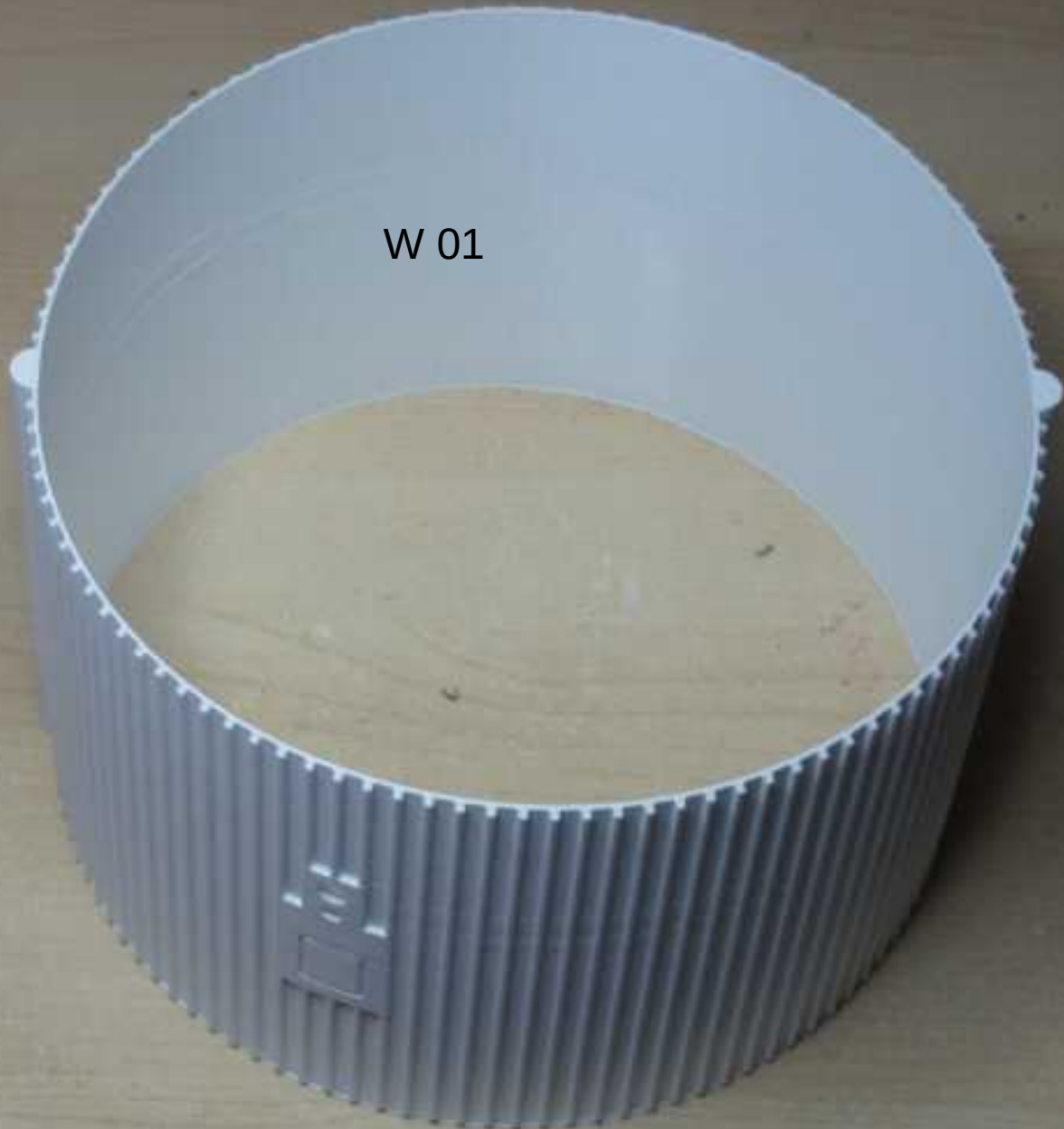








Y 01

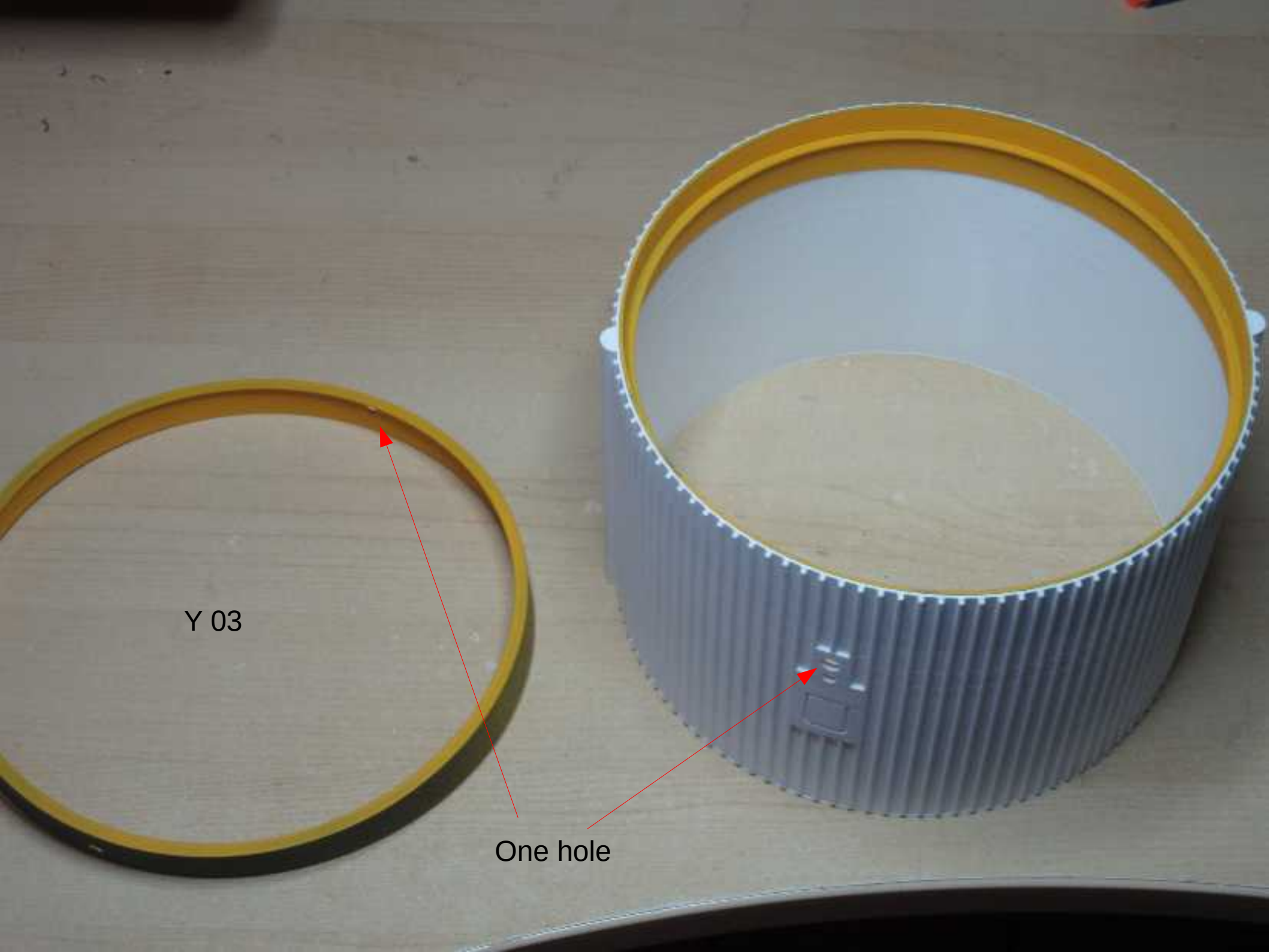


W 01



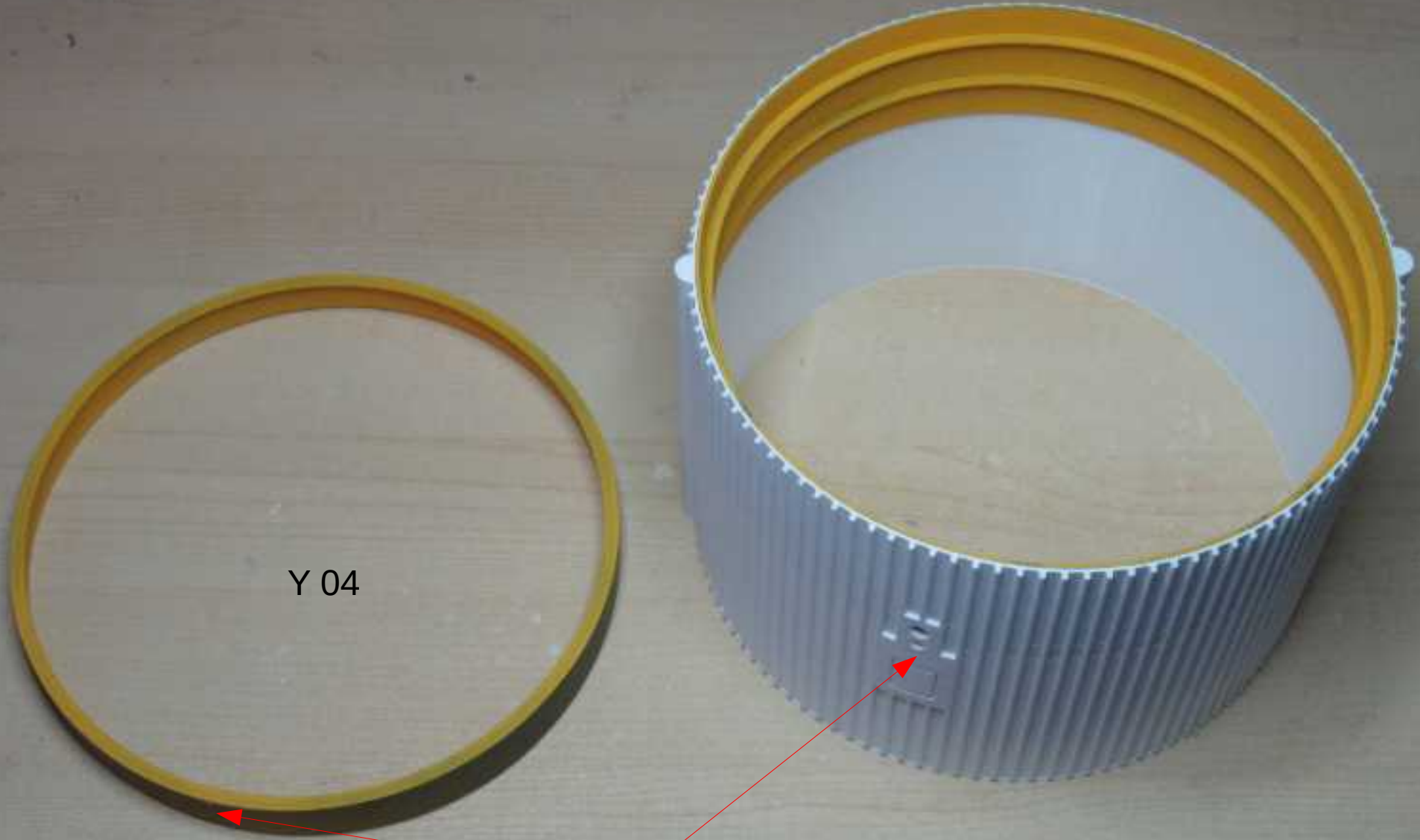
Y 02 x3





Y 03

One hole



Y 04

One hole



Y 02 x3





Y 05

Two holes located there

See the correct position two pictures later

Y 02 x3









To assembly the dome,  
put it in the previous module first



Like this

Do not glue !

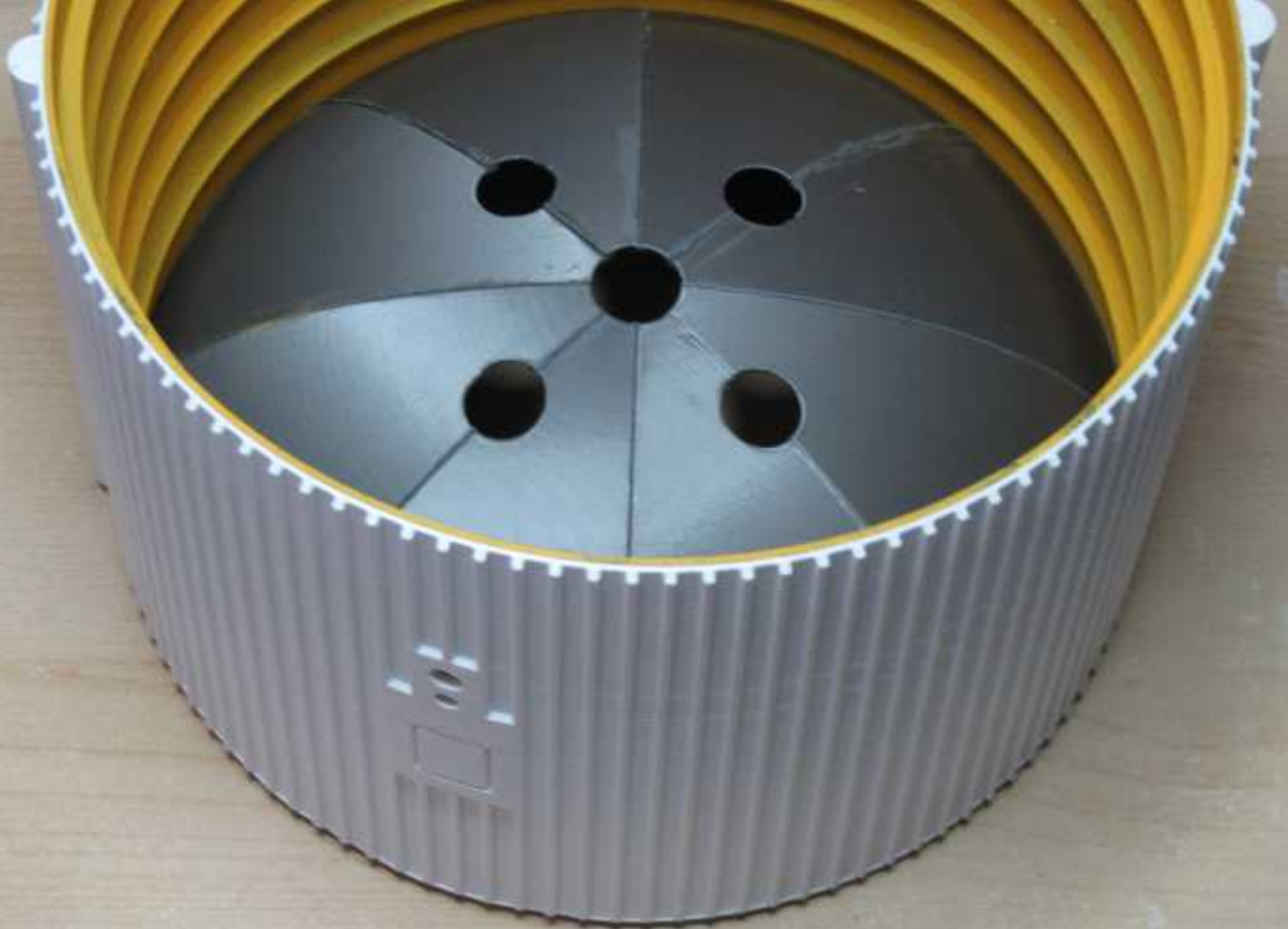


Then, glue the inter-tank skirt on it



these two parts can be easily assembled





Vent line

He line







Fill drain LOX tank



You may need to adjust the size of the passing holes



Module 05

Cutting supports of  
S01 x4 and S 02 x4





S 01 x4



S 02 x4















S 03



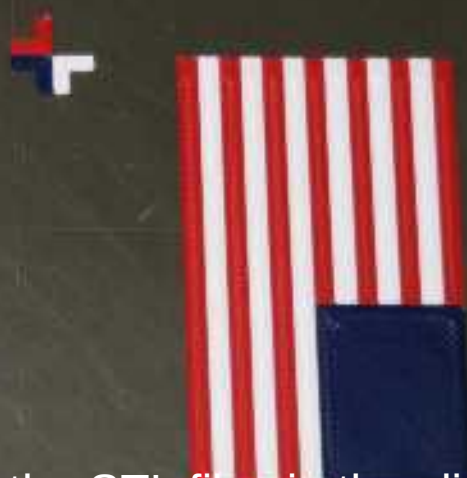




S 04







For this print, you must align the STL files in the slicer and print them one after the other, without removing the previous print

Printing upside down for best quality



Use the control marker

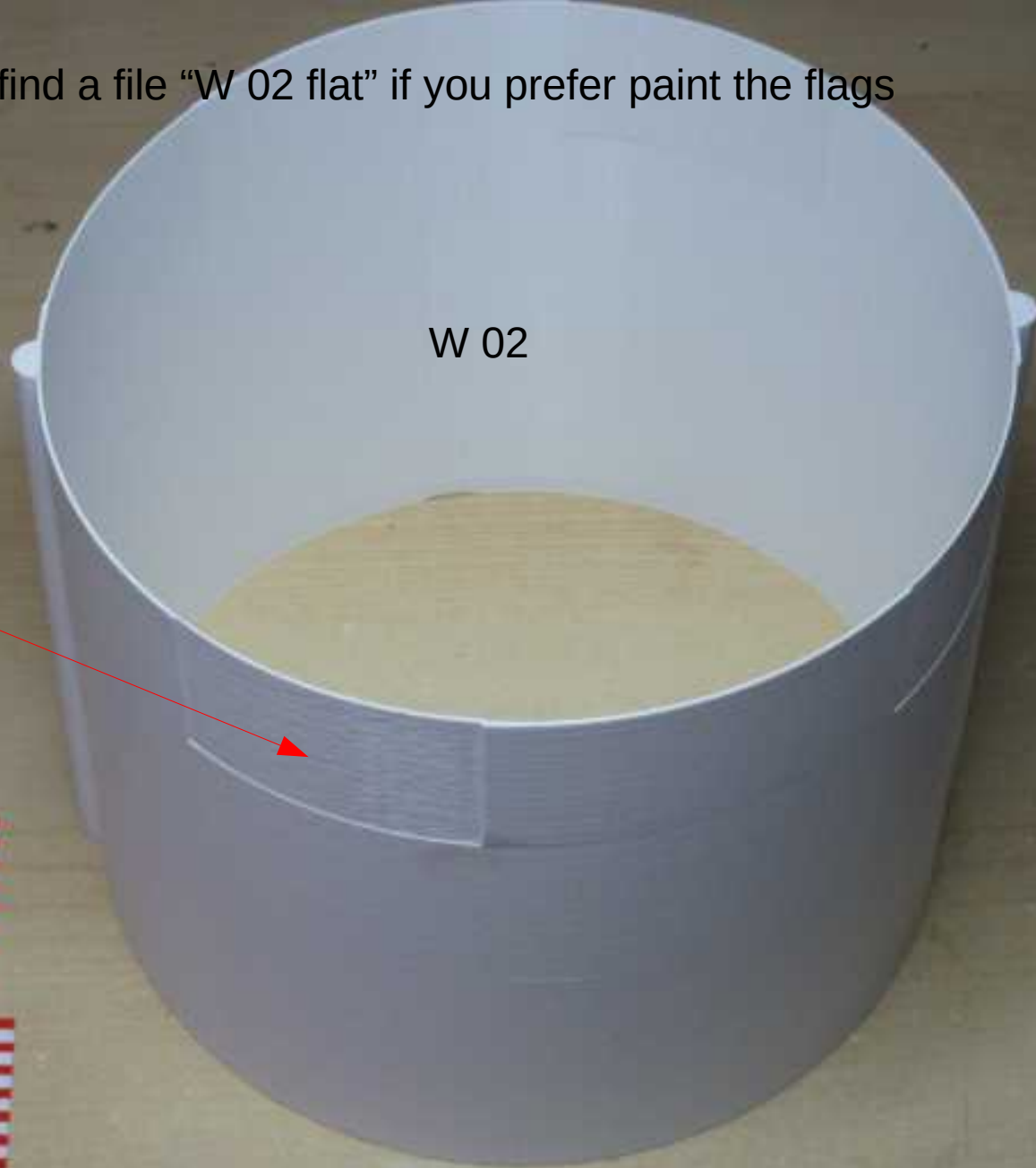


W 01 x4  
R 01 x4  
Be 01 x4

In this pack, you will find a file "W 02 flat" if you prefer paint the flags

W 02

Flag place







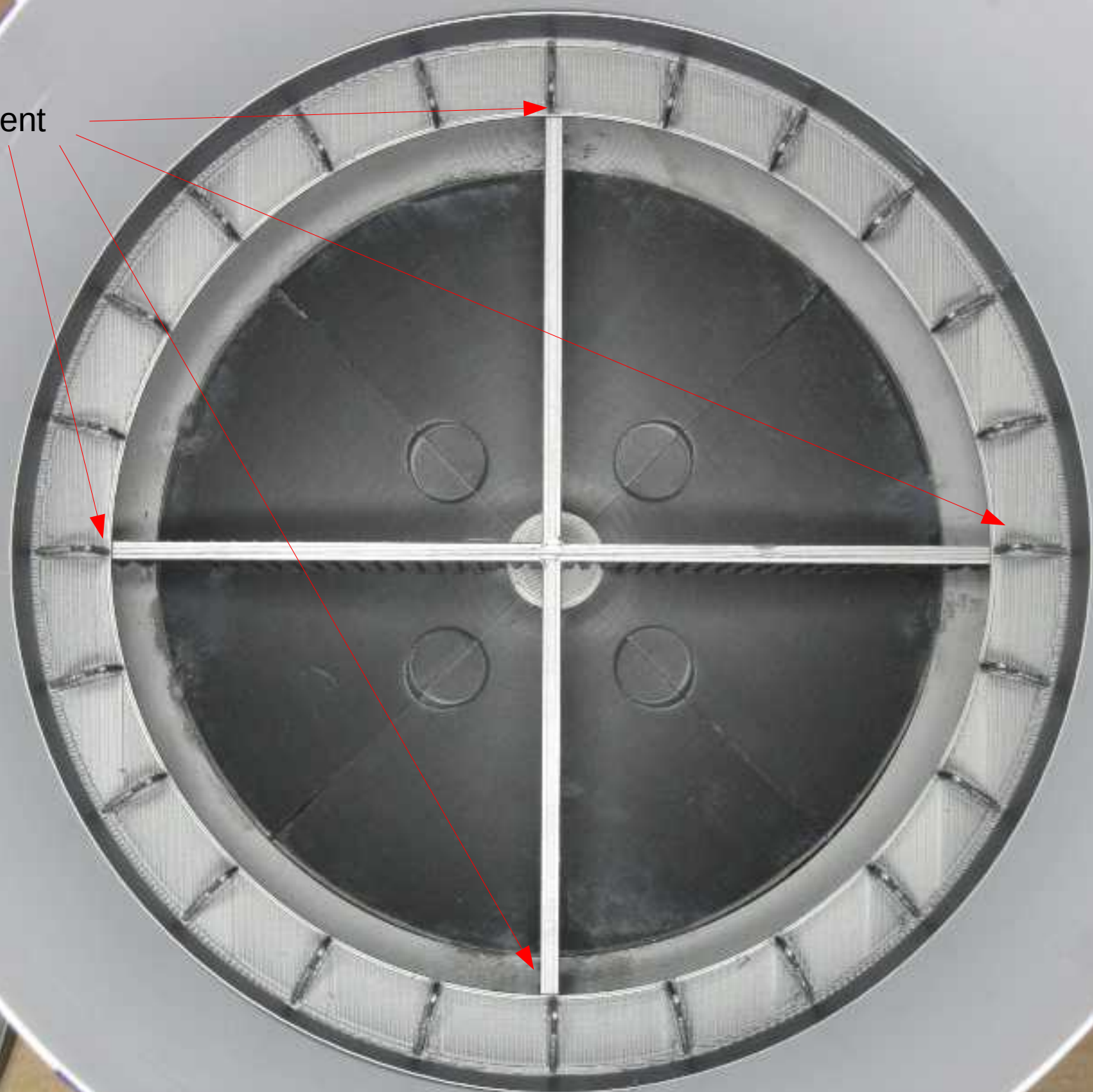
Index





S 05 x7

alignment



S 06



Helium tank located position I



I

IV

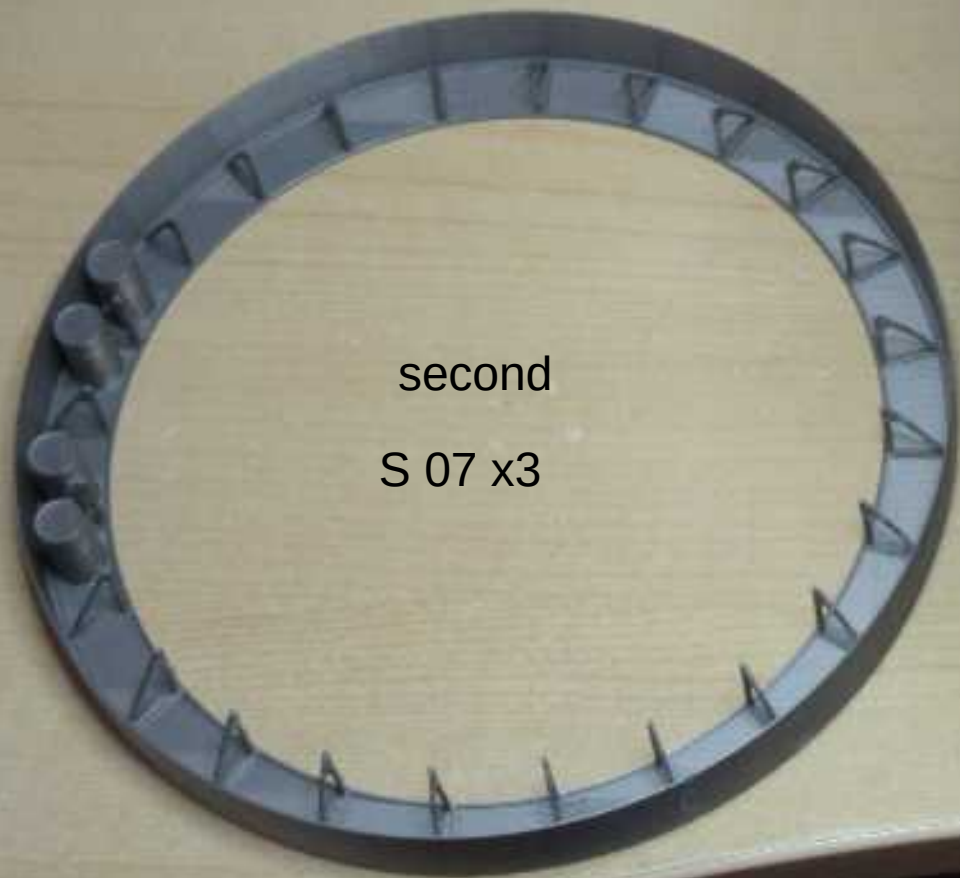
III

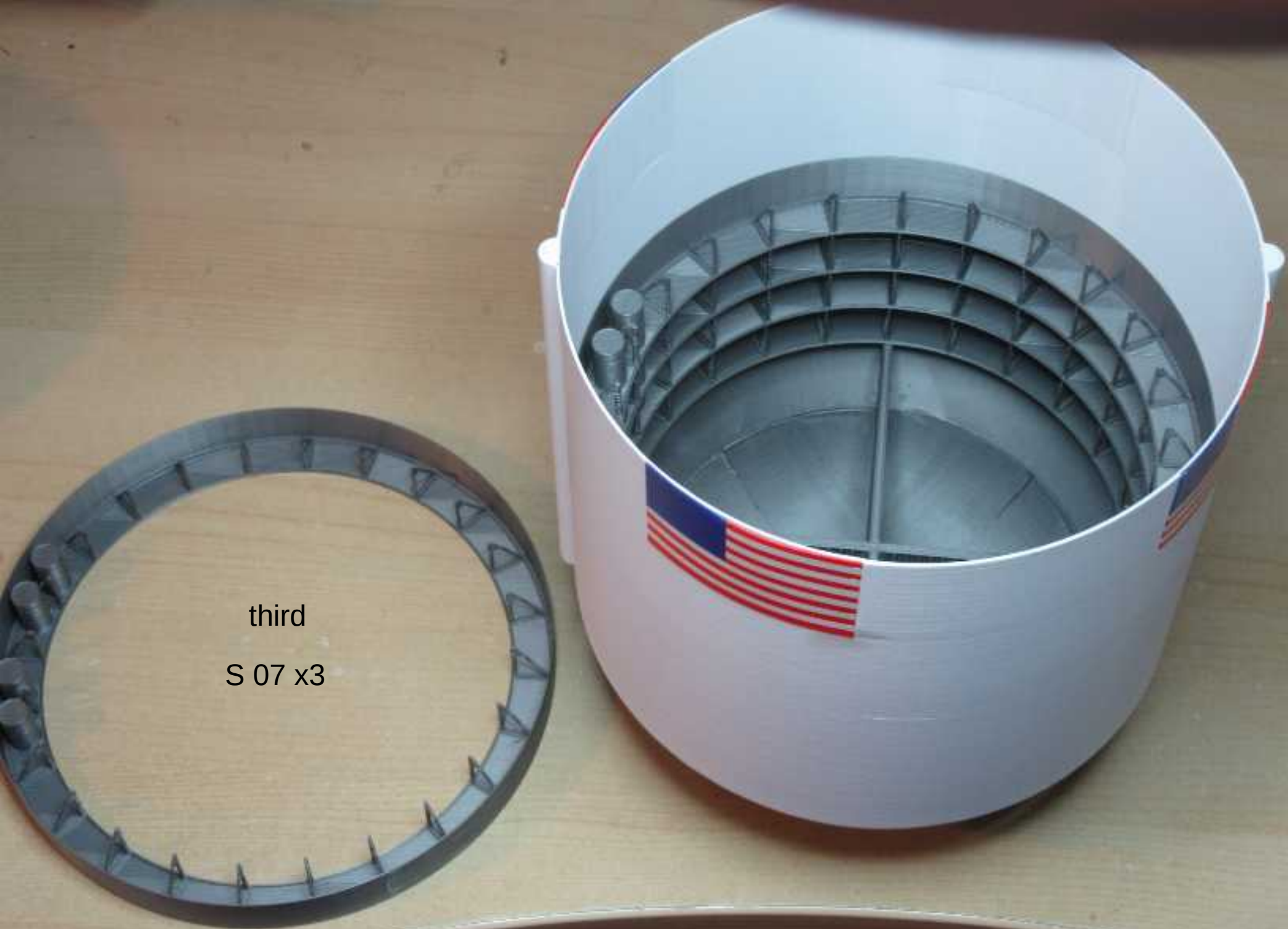
II

first  
S 07 x3



second  
S 07 x3





third

S 07 x3



S 08

I

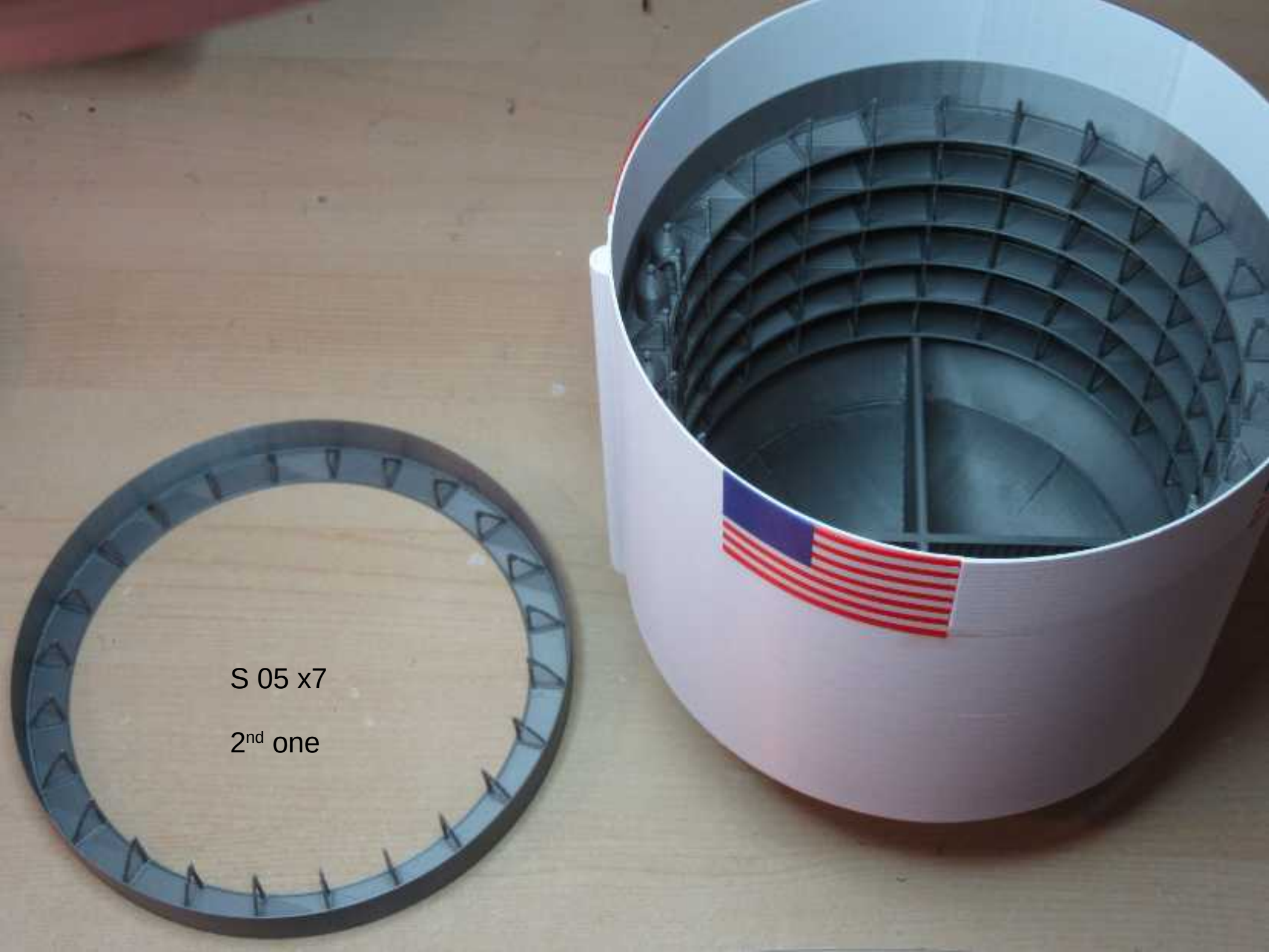
The finished helium tank

II

IV

III





S 05 x7

2<sup>nd</sup> one

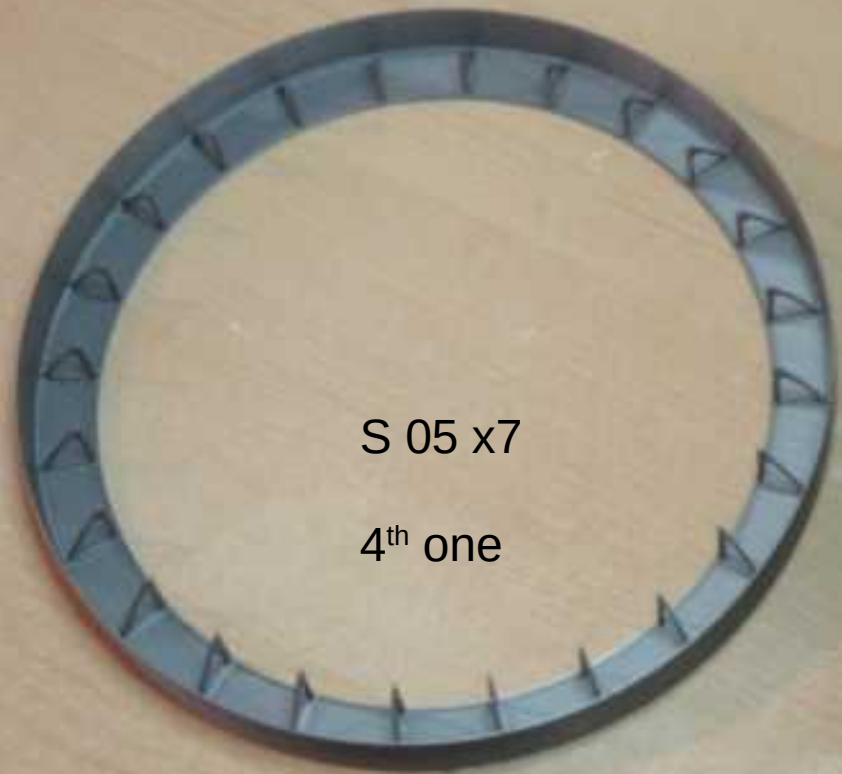


S 05 x7

3<sup>rd</sup> one



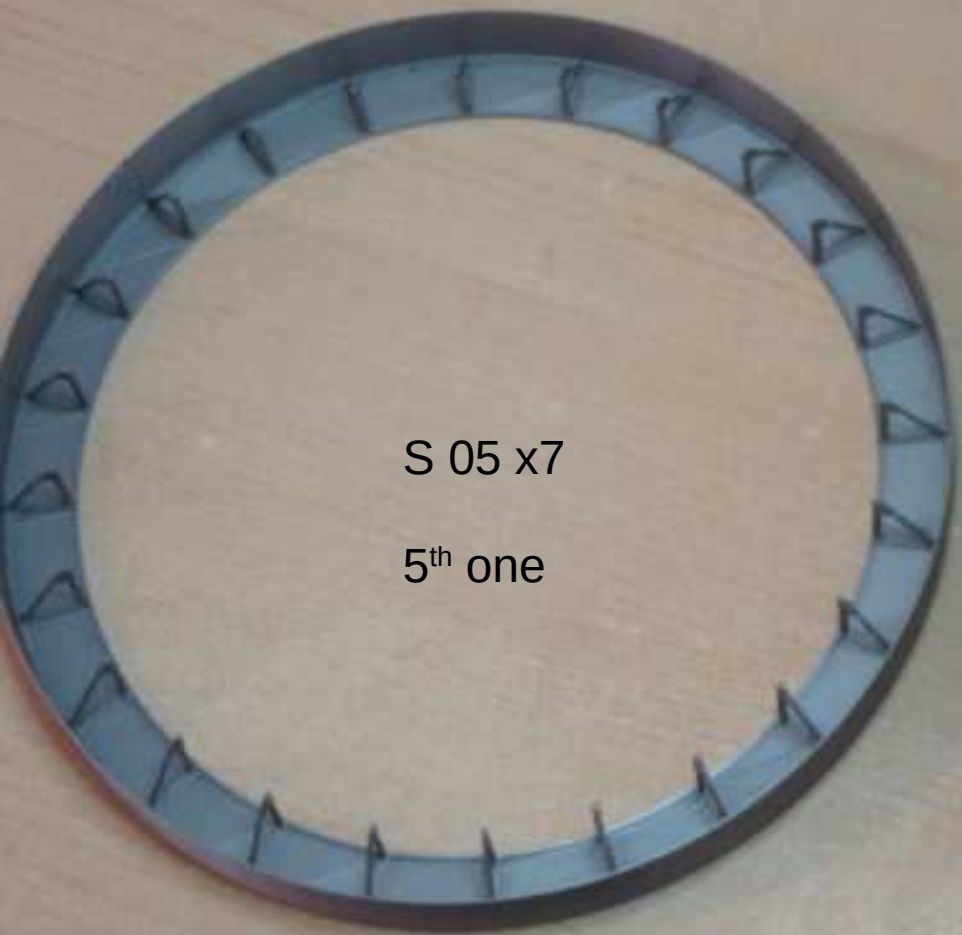
W 03



S 05 x7

4<sup>th</sup> one

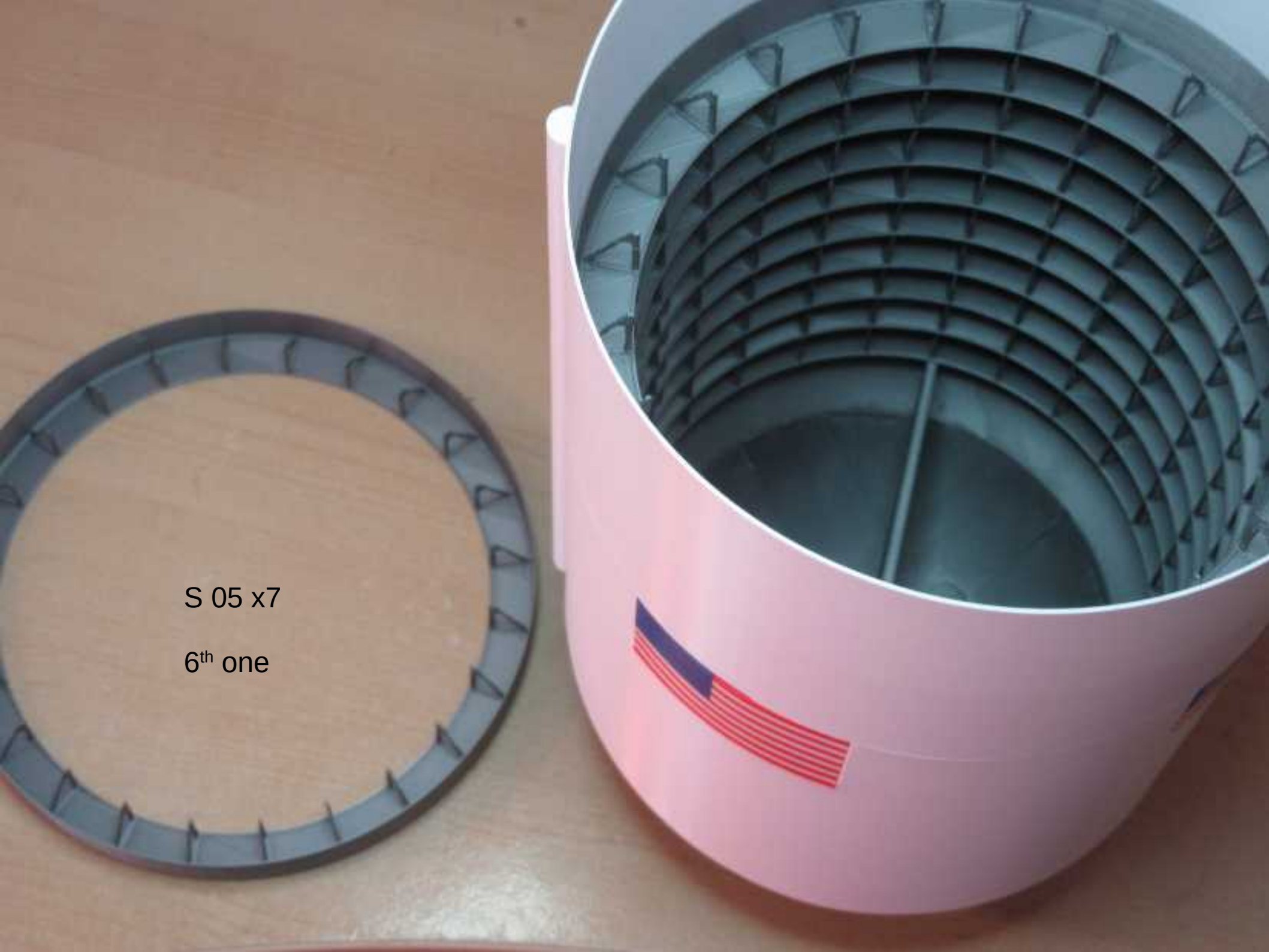




S 05 x7

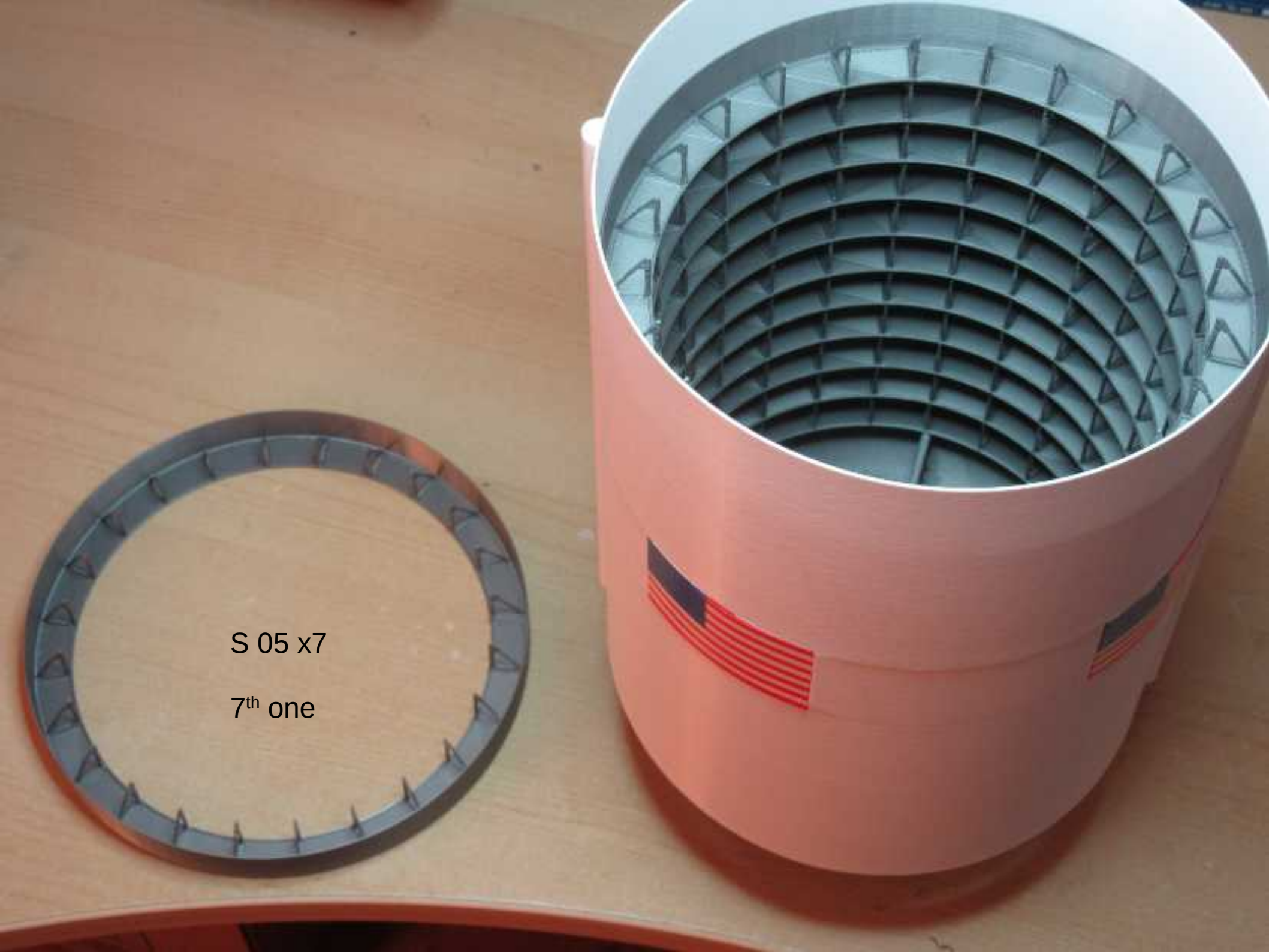
5<sup>th</sup> one





S 05 x7

6<sup>th</sup> one

A pink cylindrical container with a grey interior and a grey ring with triangular protrusions. The container has two American flag stickers on its side. The ring is placed on a wooden surface next to the container.

S 05 x7

7<sup>th</sup> one



S 09



Helium tanks this side I





S 10



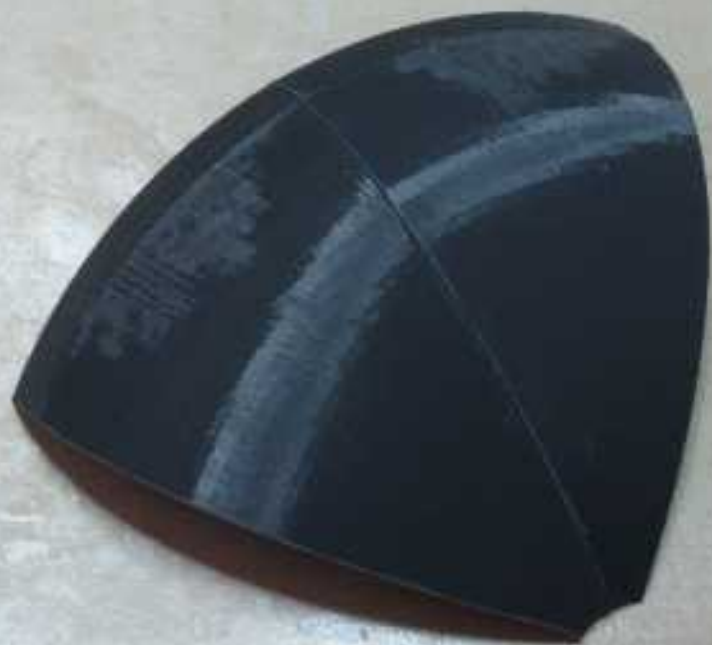
Module 06

Y 01 x7



Y 02

pieces to be painted  
yellow afterwards





Y 03

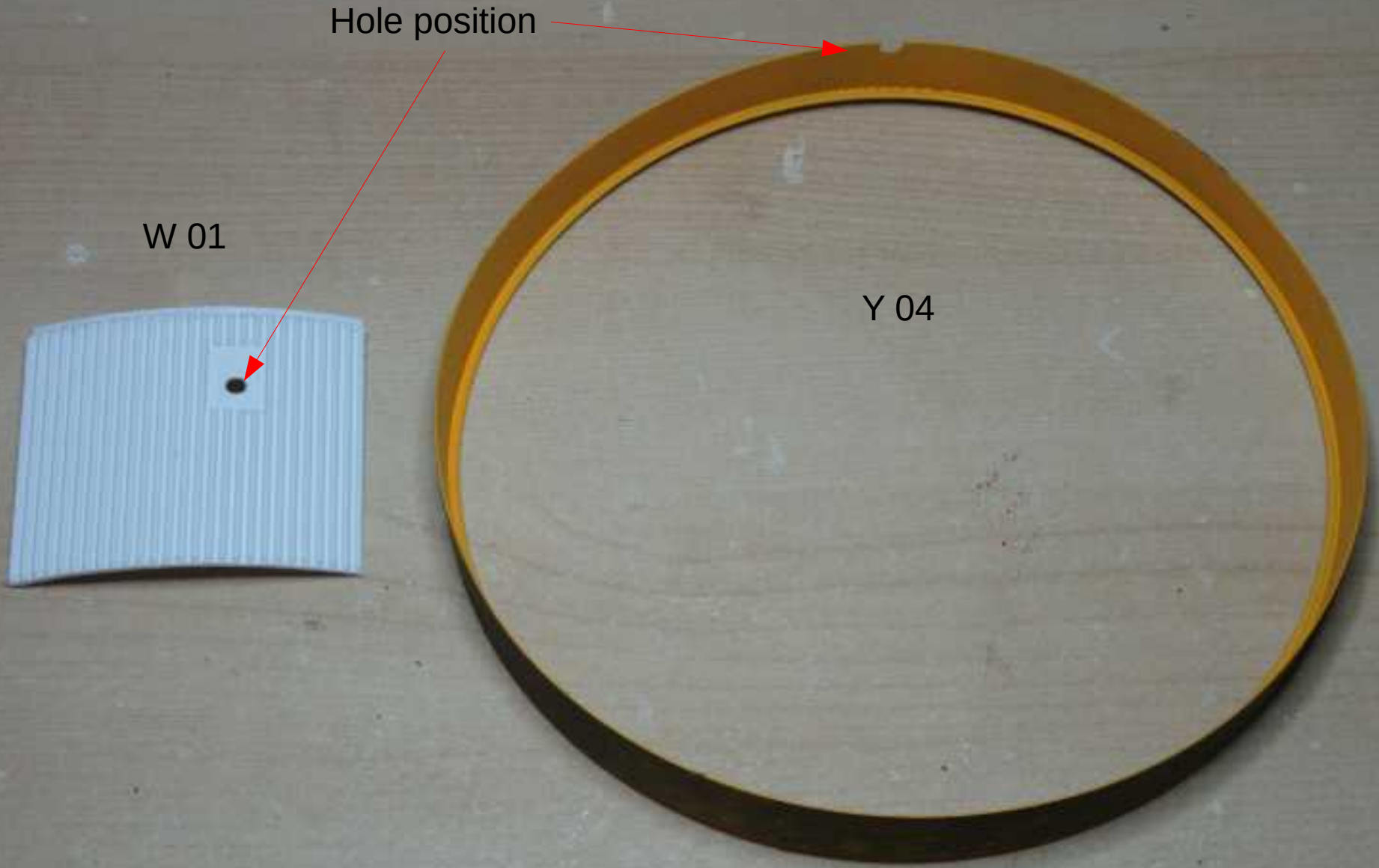


there's a hole on the Y 03 part.  
This hole have to be aligned with the dome hole





After painting



In this pack, you will find a file fairing complete if you prefer paint this skirt





B 01 x2





W 02 x3



B 02 x2





W 02 x3





B 01 x2





W 02 x3

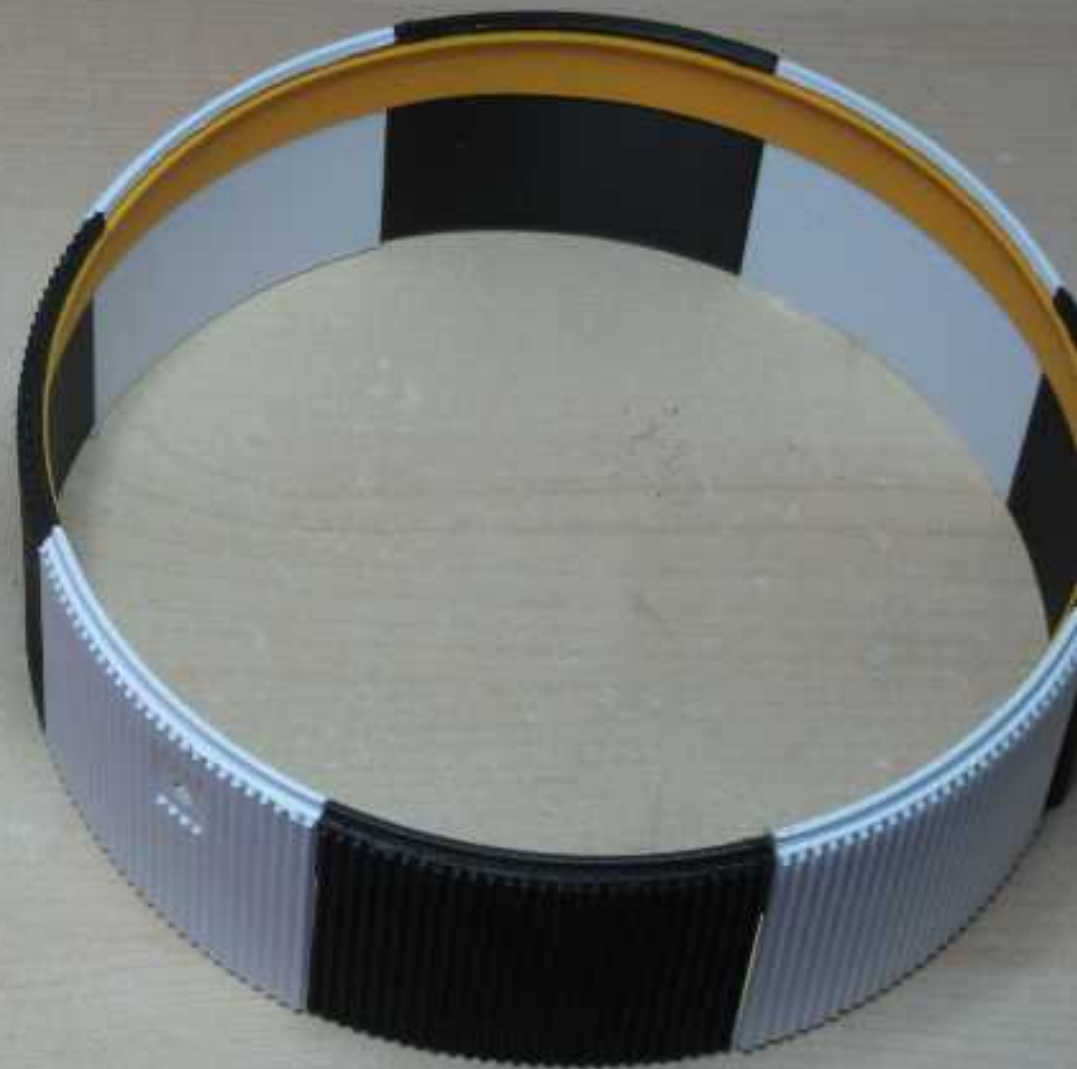




B 02 x2



Y 05 x2





Y 05 x2

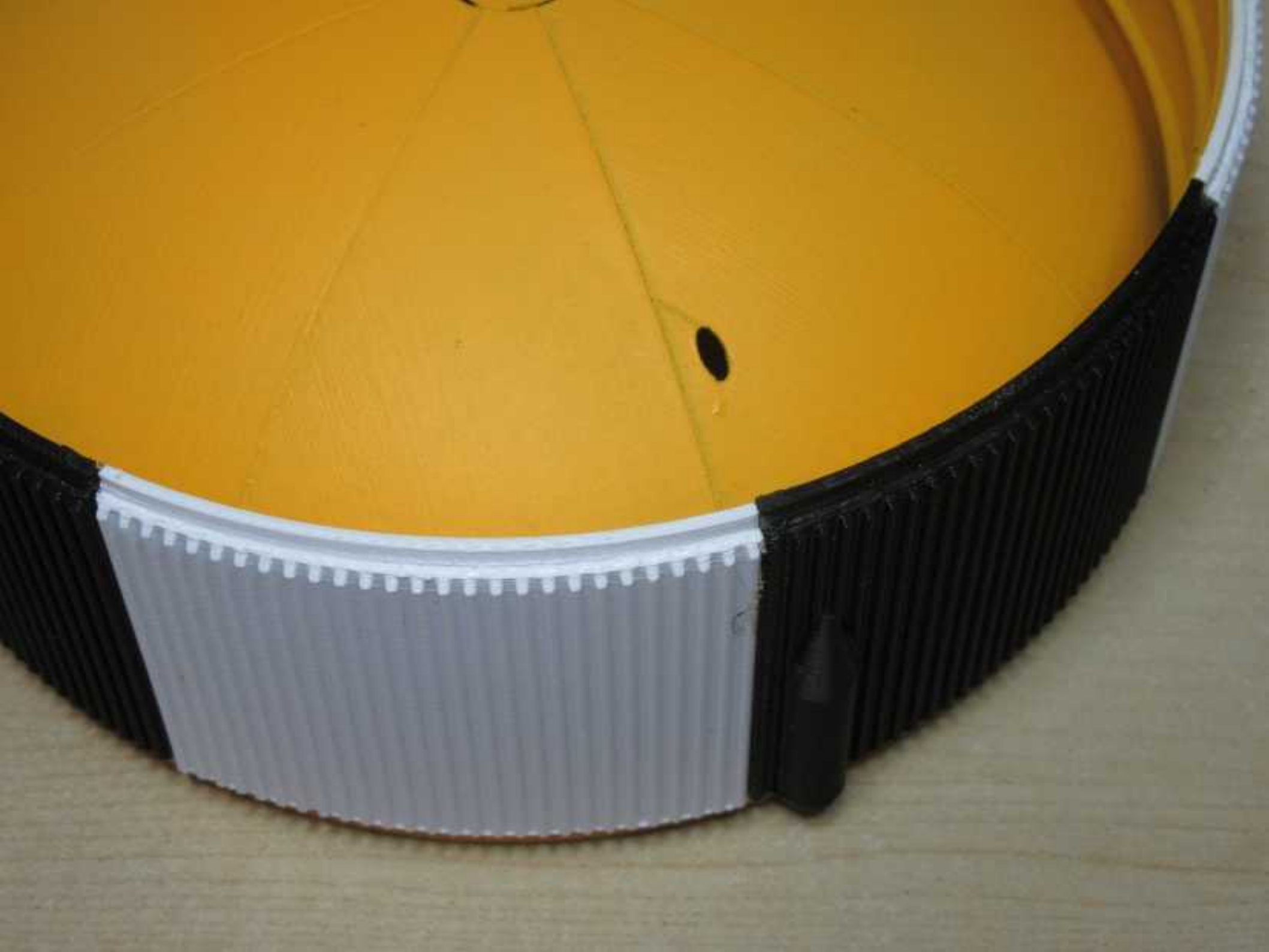


Corresponding position





alignment





glue



S 01



S 02



S 03



S 04



Insert this end first in the hole





Corresponding hole



S 05













S 06













The end !