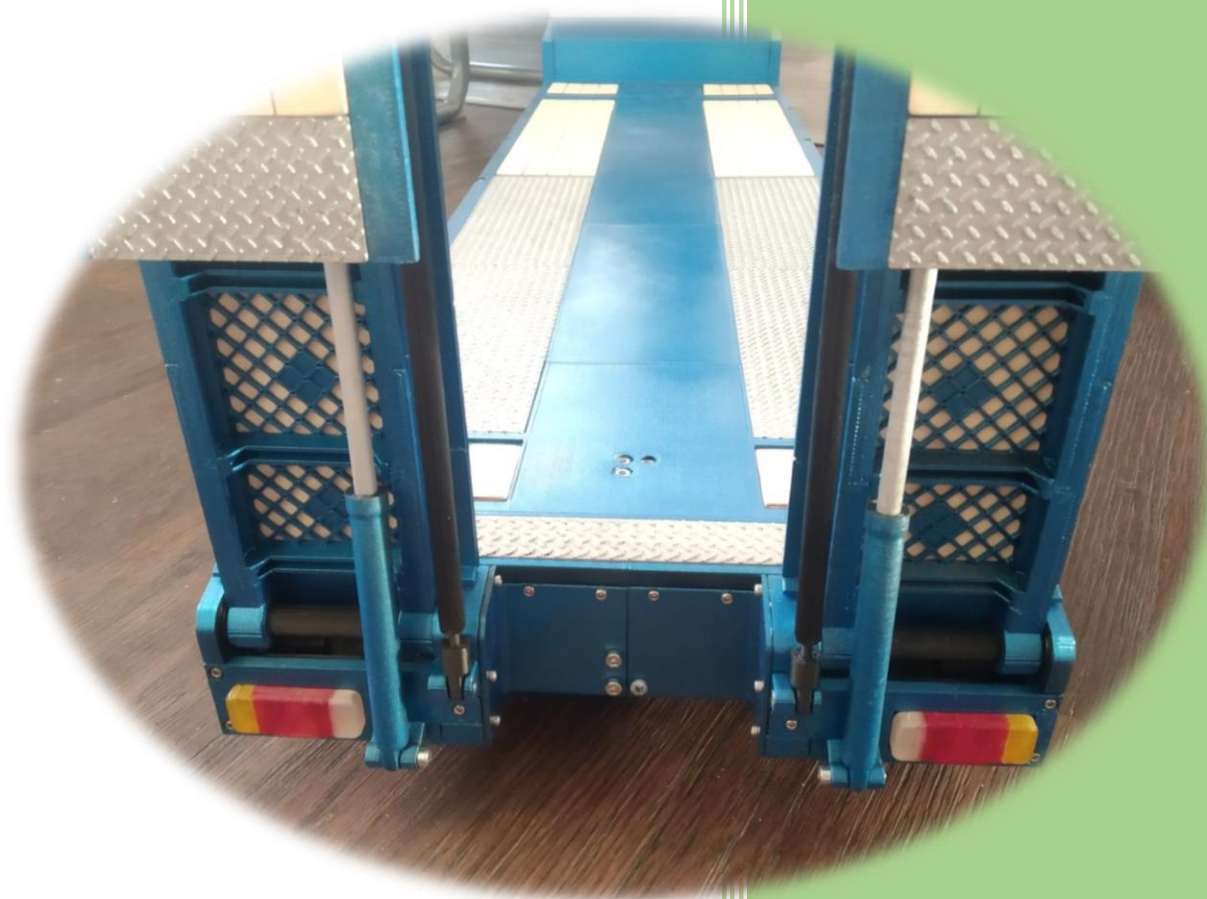


# Návod na stavbu podvalníku

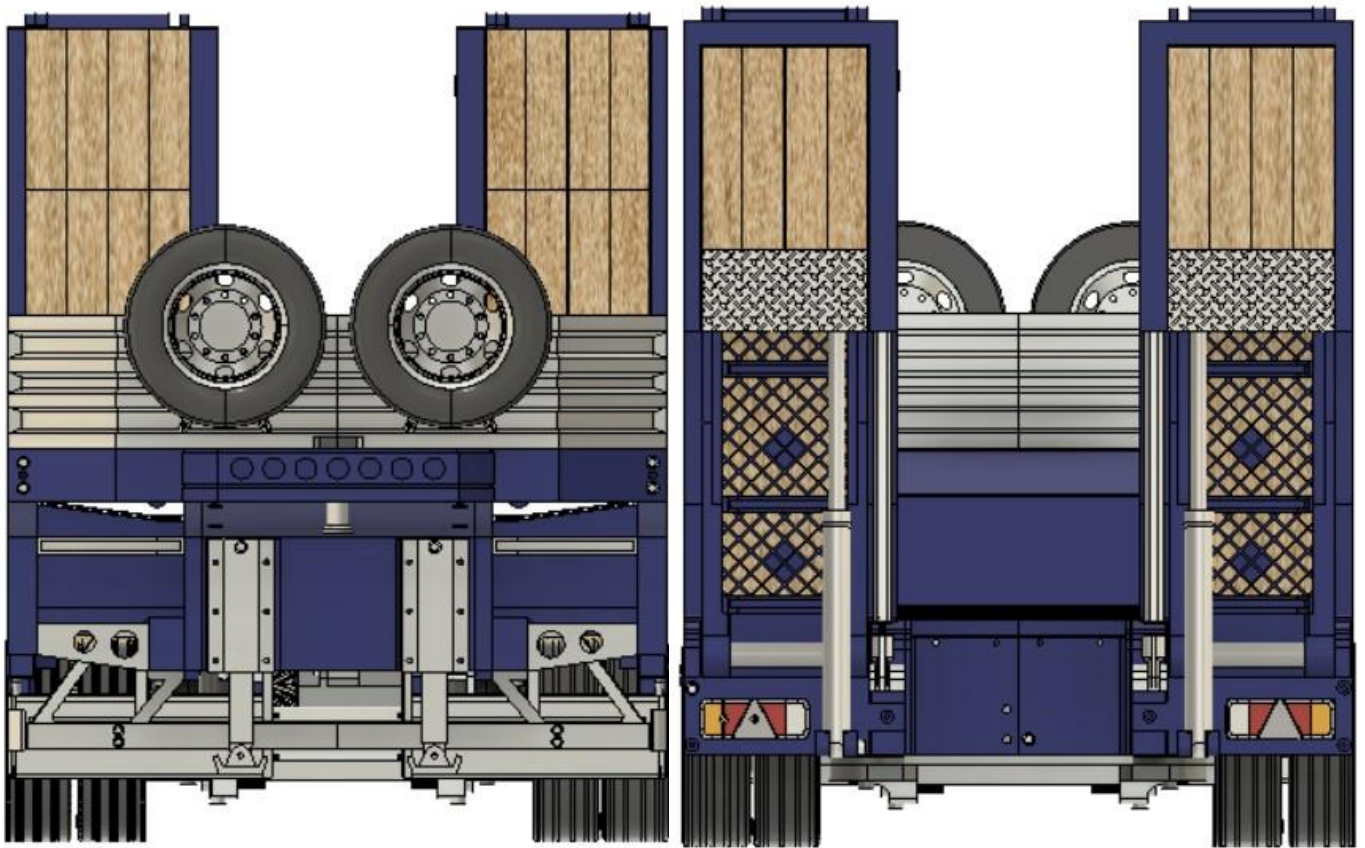


[miroslavliesner@seznam.cz](mailto:miroslavliesner@seznam.cz)

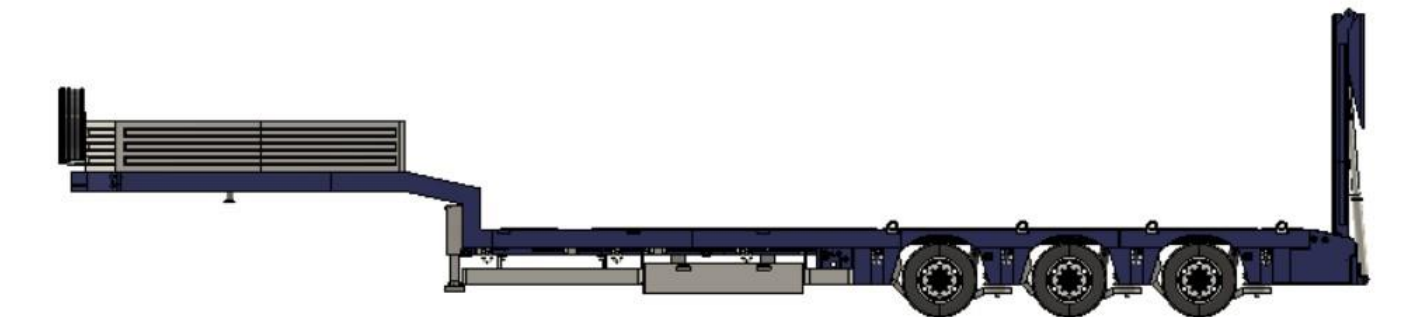
MLmodel

# Návod na stavbu Scania R730

1/10



245.20mm



1314mm

**Děkuji za zakoupení STL souborů modelu kamionu.**

Díly jsem se snažil připravit  
co nejpečlivěji s ohledem na jednoduchost a případnou opravitelnost.  
Některé díly se nemusí přesně shodovat s obrázky v tomto návodu.

Jedná se o později upravené nebo vylepšené díly.

**Sledujte prosím aktualizace:**

<http://www.mlmodel.webnode.cz>

**Pro stavbu budete potřebovat:**

[3D tiskárnu s tiskovou plochou 25x20 cm](#)

text odkazuje na prodejce kvalitních a perfektně postavených, vyladěných 3D tiskáren se zárukou +  
spoustu benefitů.

**Rozhodně stojí za shlédnutí.**

**2-3 kg kvalitního PLA**

Transparentní PLA Crystal Clear od Fillamentum – díly jsou v návodu označené „Clear“

Flex filament - díly jsou v návodu označené „Flex“

Kuličková ložiska 10x15x4 – 10ks

Střední kyanoakrylátové lepidlo + aktivátor

M2 šroubky

M3 šroubky

M3 maticky

M3 červíky

LED 3mm- bílé, červené, žluté. Oranžové

Vodiče k LED

Odpory 180R

Odpory 2k7

Pružiny (doporučuji koupit sadu z odkazu, jsou tam pružiny použité v modelu)

[Sada tažných a tlačných pružin 200 ks YATO. TecDoc: YT-06875. | ADR Autodíly \(adrautodily.cz\)](#)

Standartní servo – minimálně 20 kg

Vazelínu PTFE a pár dalších věcí (barvy, lak, a pod.)

## Doporučené nastavení tisku:

Tryska: 0,4 mm

Šířka extruze: 0,45 mm

Výška vrstvy: 0,15 mm – 0,25 mm

Výplň: 25%, převody a hřídelky 100%

Perimetry: 2-3

Díly, které mají být tištěné jinak, to mají uvedeno v názvu nebo v návodu.

Tisková rychlost: 70 mm/s, venkovní perimetry 30 mm/s

Teploty: 220°C HE, 50°C HB

Díly tištěné s podporou mají v názvu "support".

Toto je mé doporučené nastavení tiskárny,  
můžete však použít i vaše osvědčené.

**Před slepením dílů vyzkoušejte jejich usazení.**

**Na srovnání styčných ploch použijte pilník,  
ostrý nůž nebo smirkový papír.**

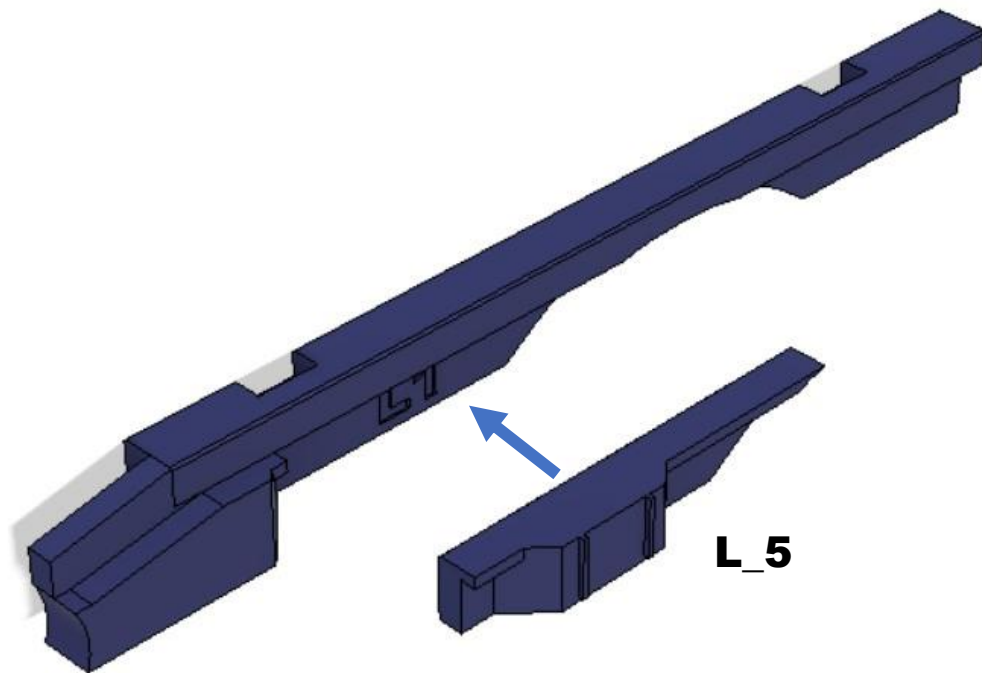
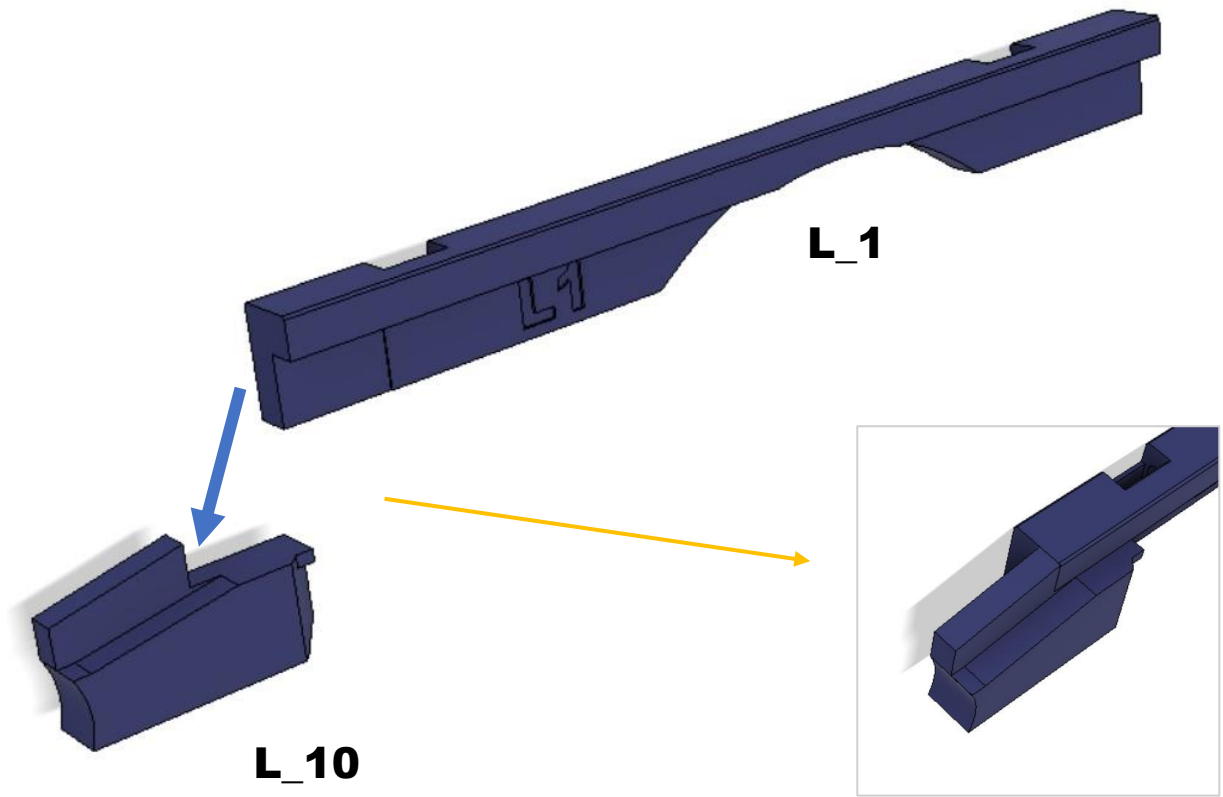
**Nejčastější problém je "sloní noha" - rozšíření tisku  
na podložce. Toto se musí zabrousit.**

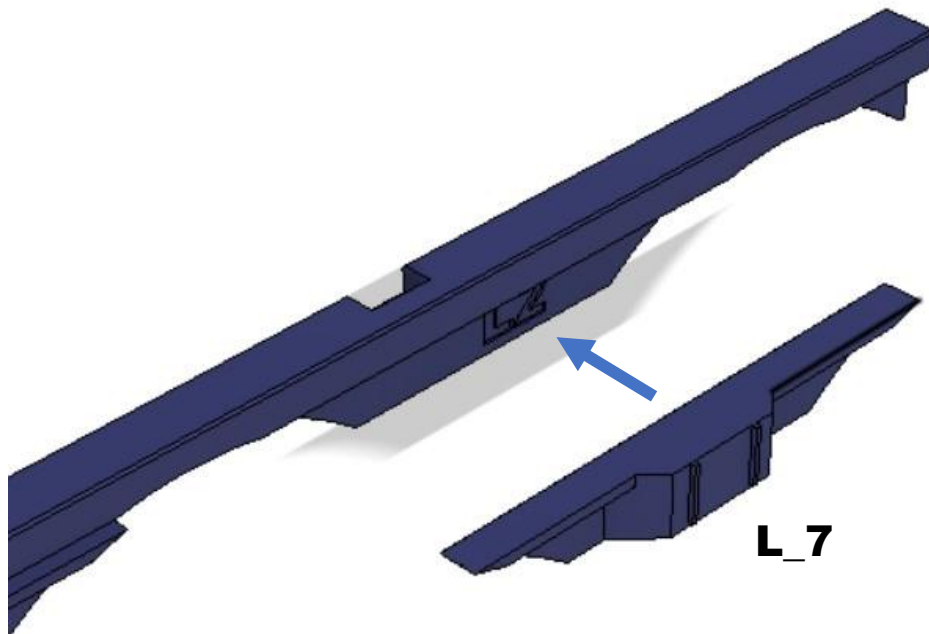
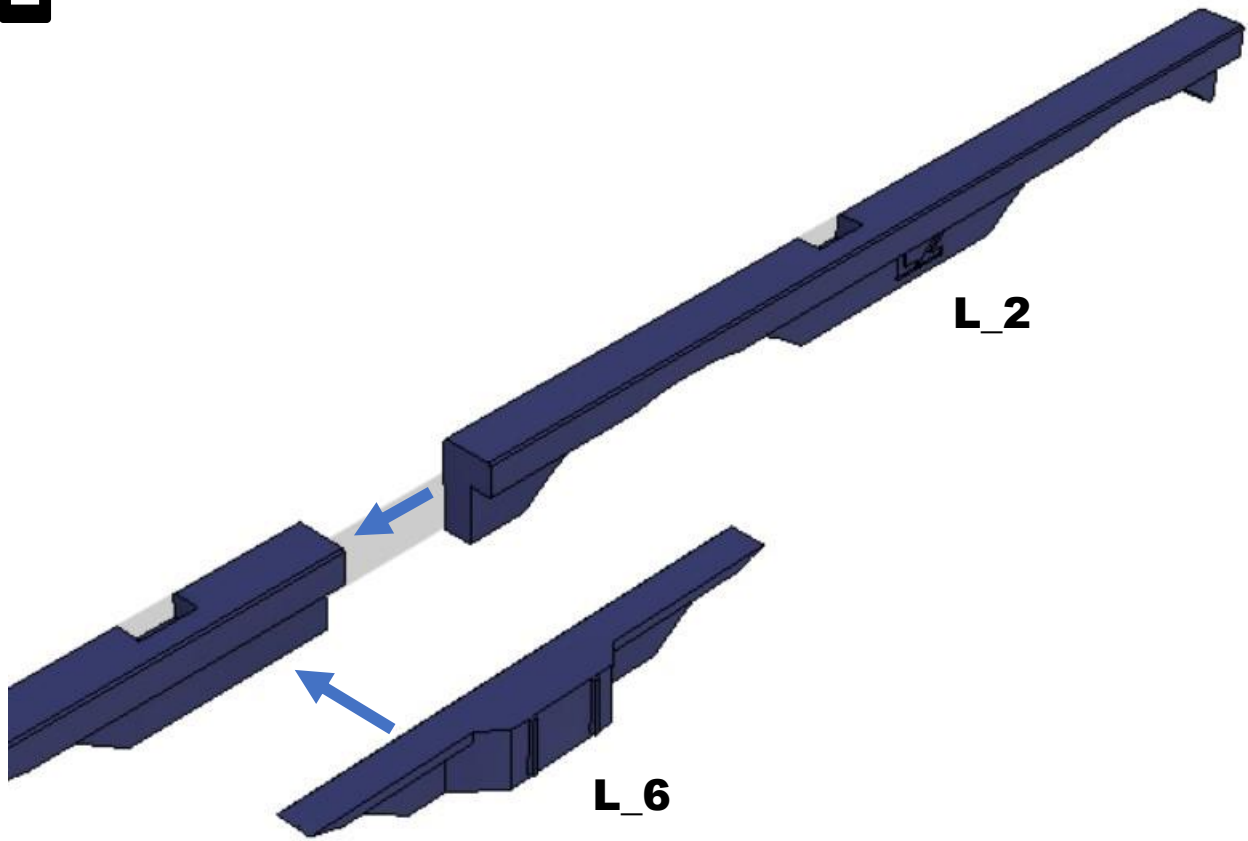
**Také důkladně plánujte umístění švů,  
zejména u převodů.**

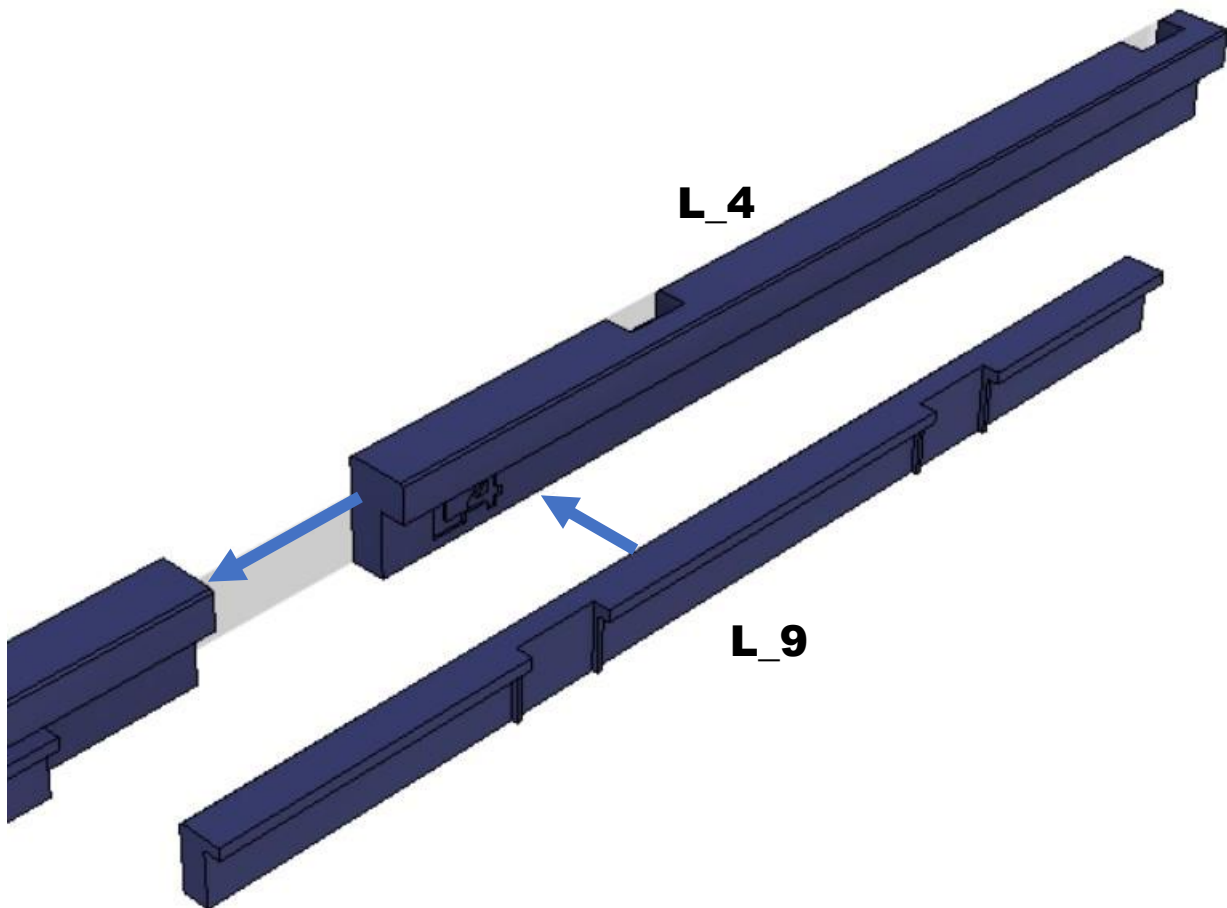
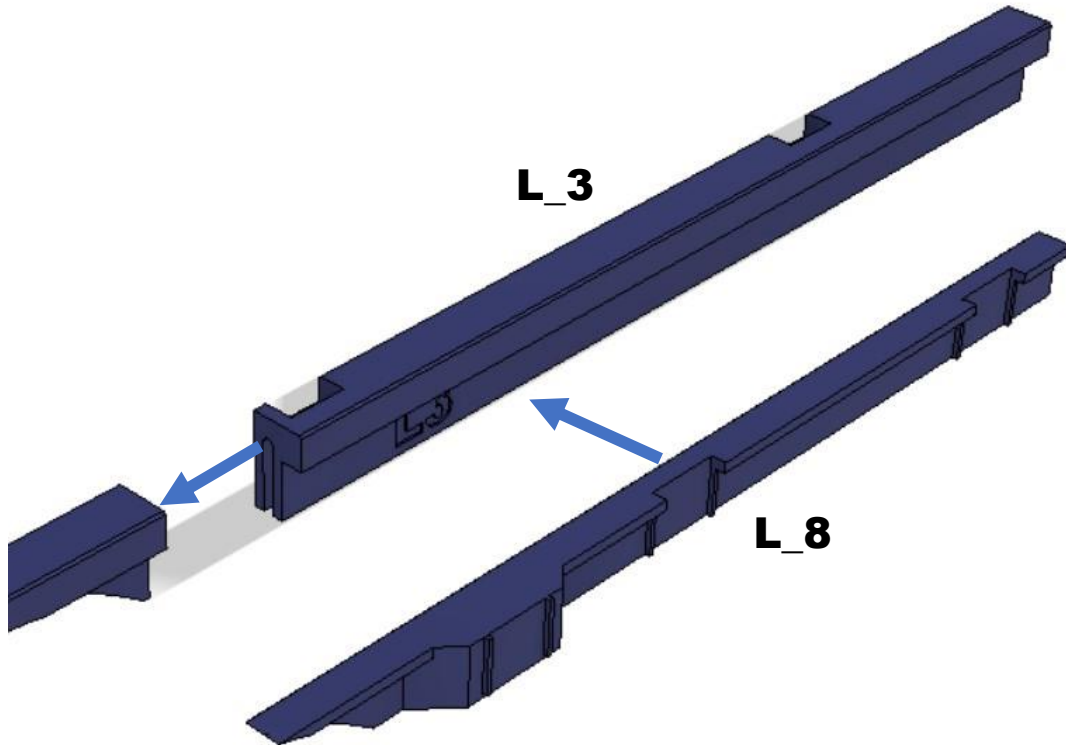


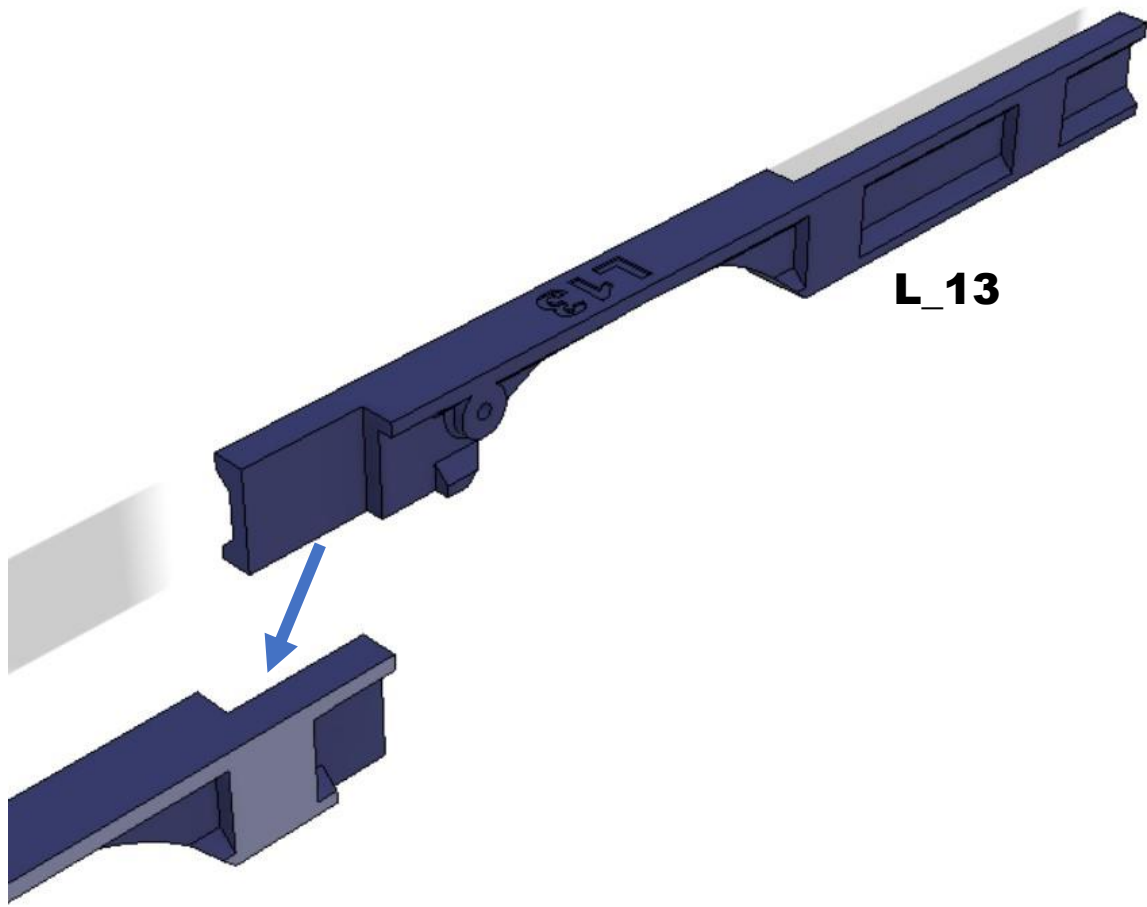
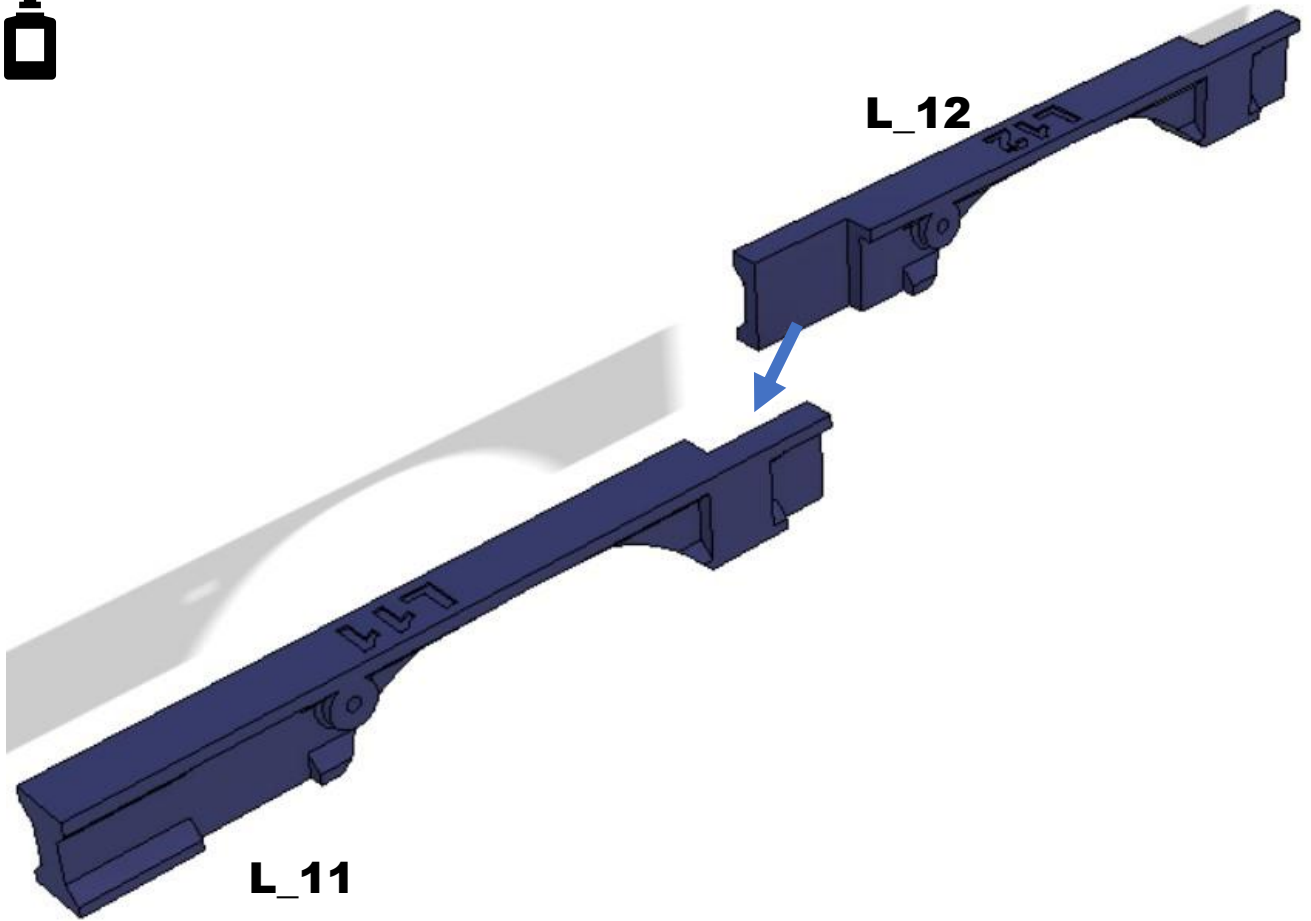
# Chassis

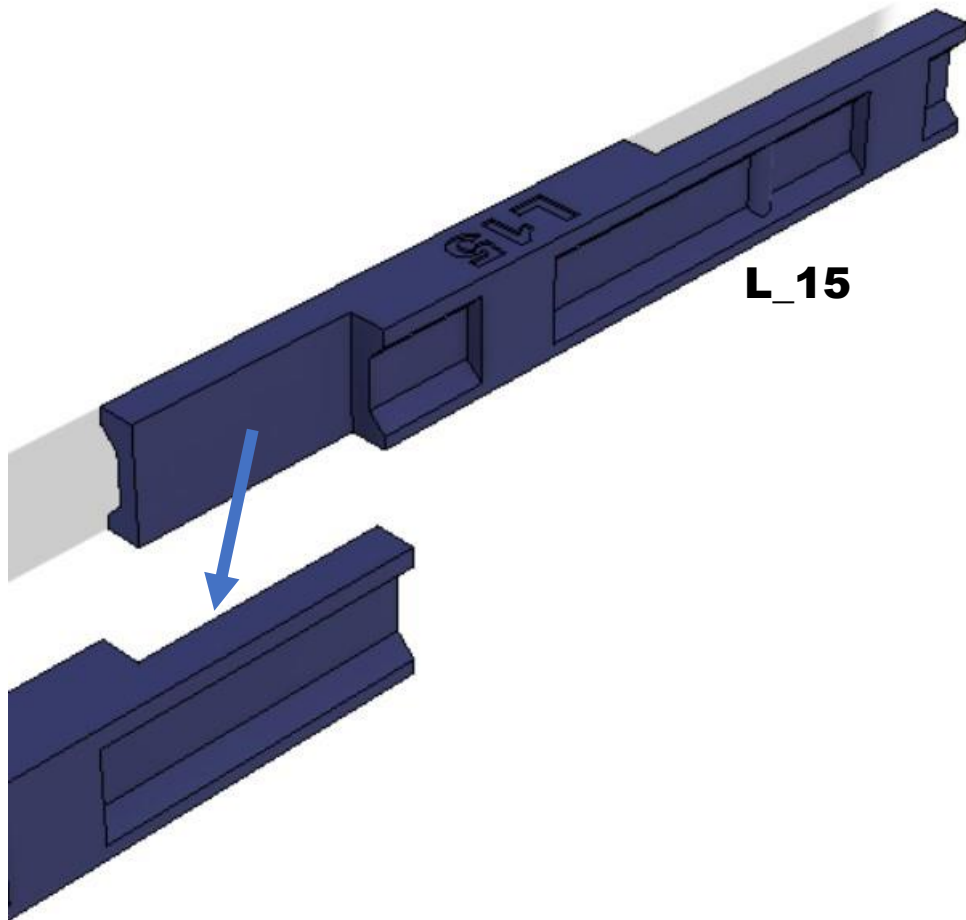
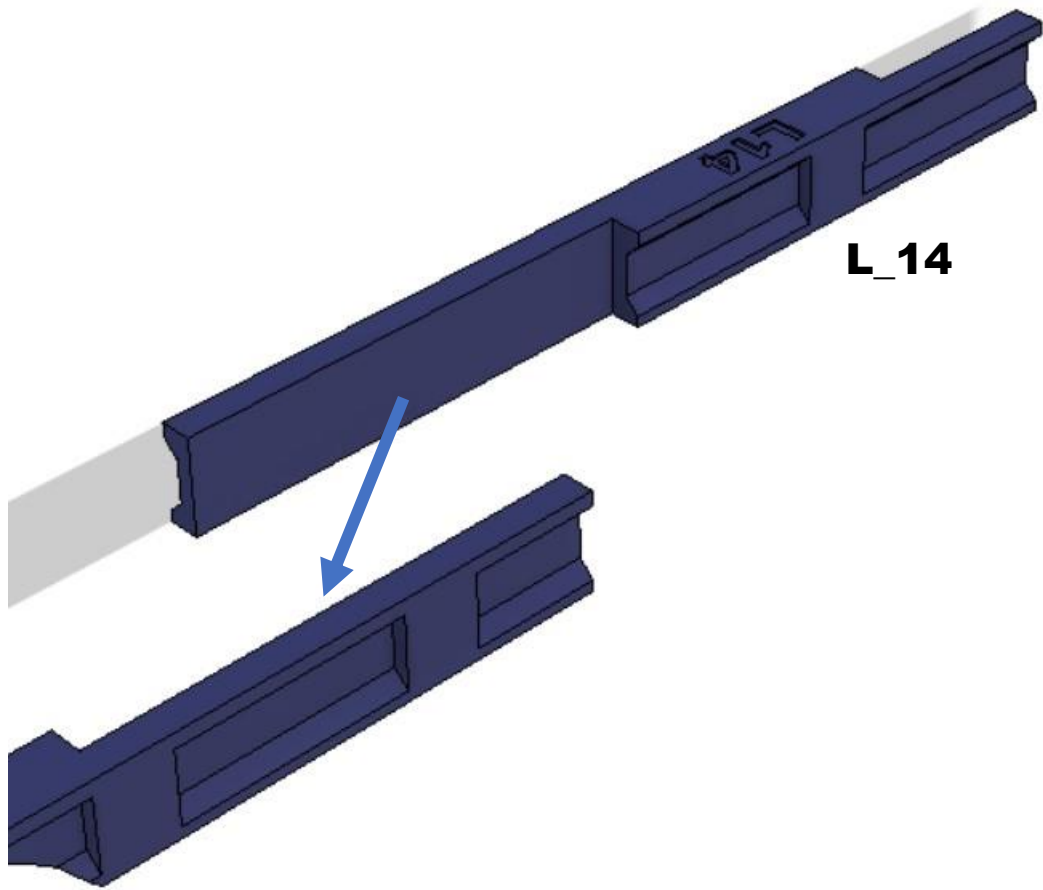
(Chassis\_L)

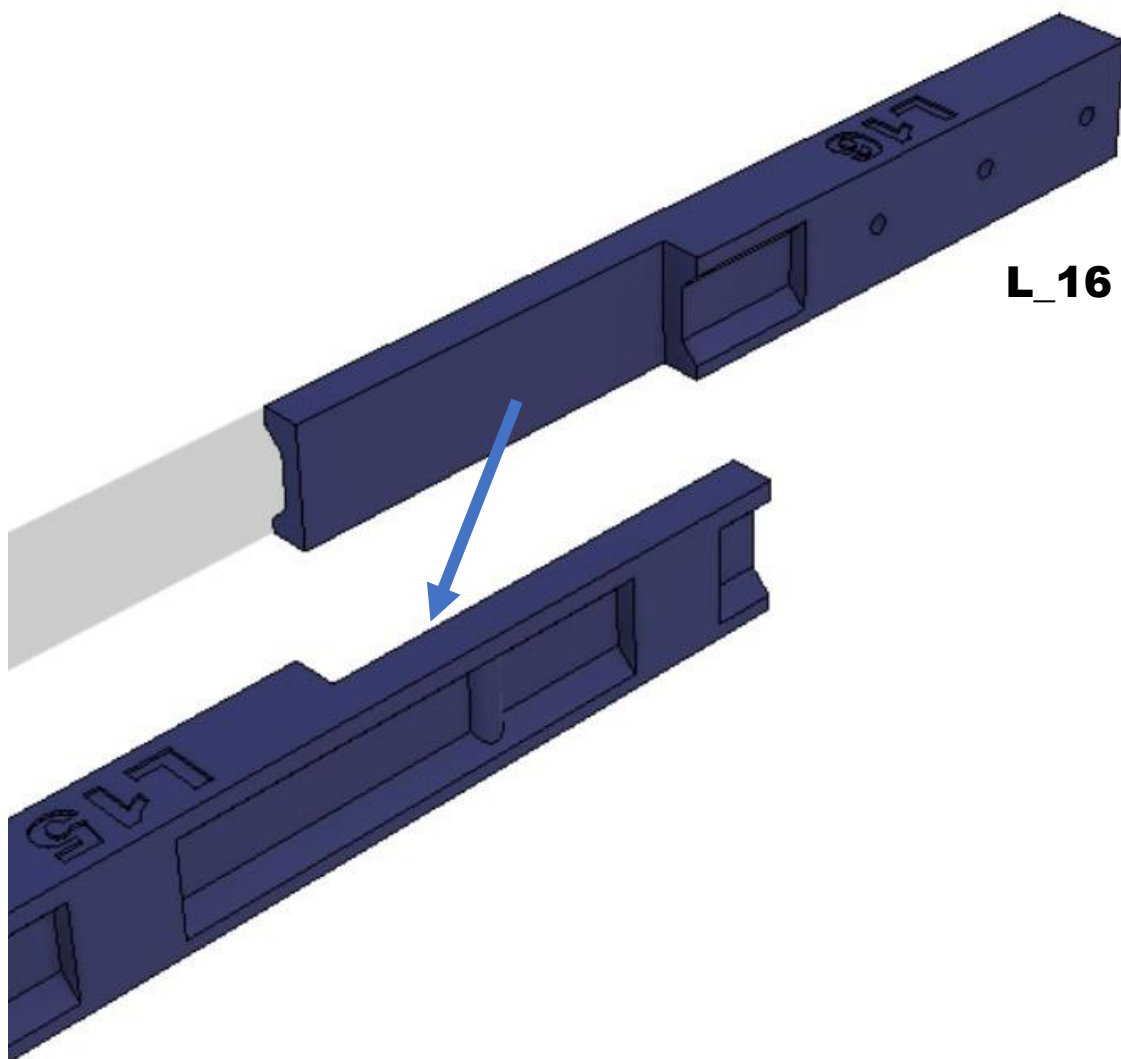












**Pravou stranu udělejte stejně z dílů ve složce**

**„Chassis R“**

**R\_1 až R\_16**



„Chassis L“

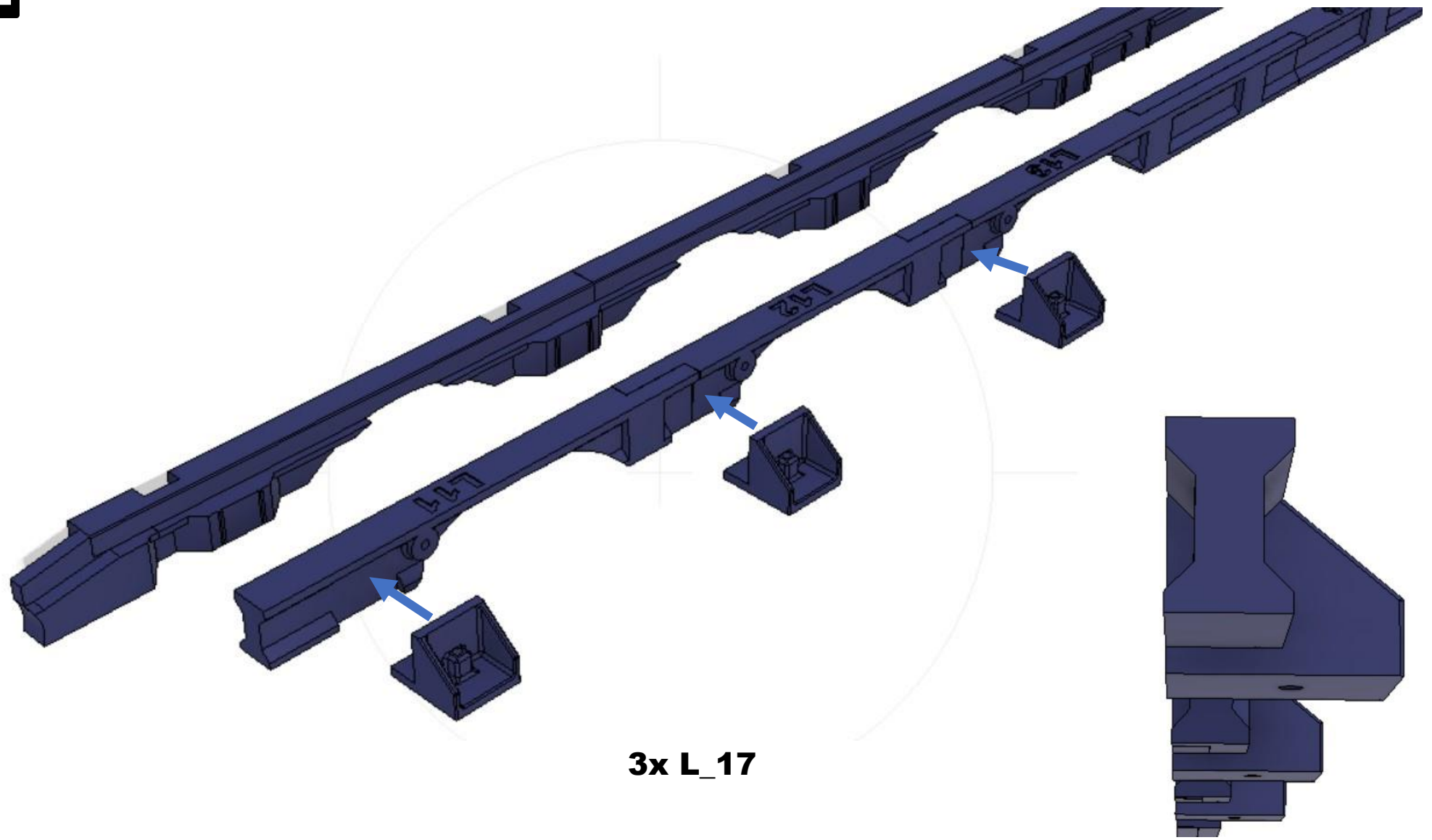
L\_1 až L\_16



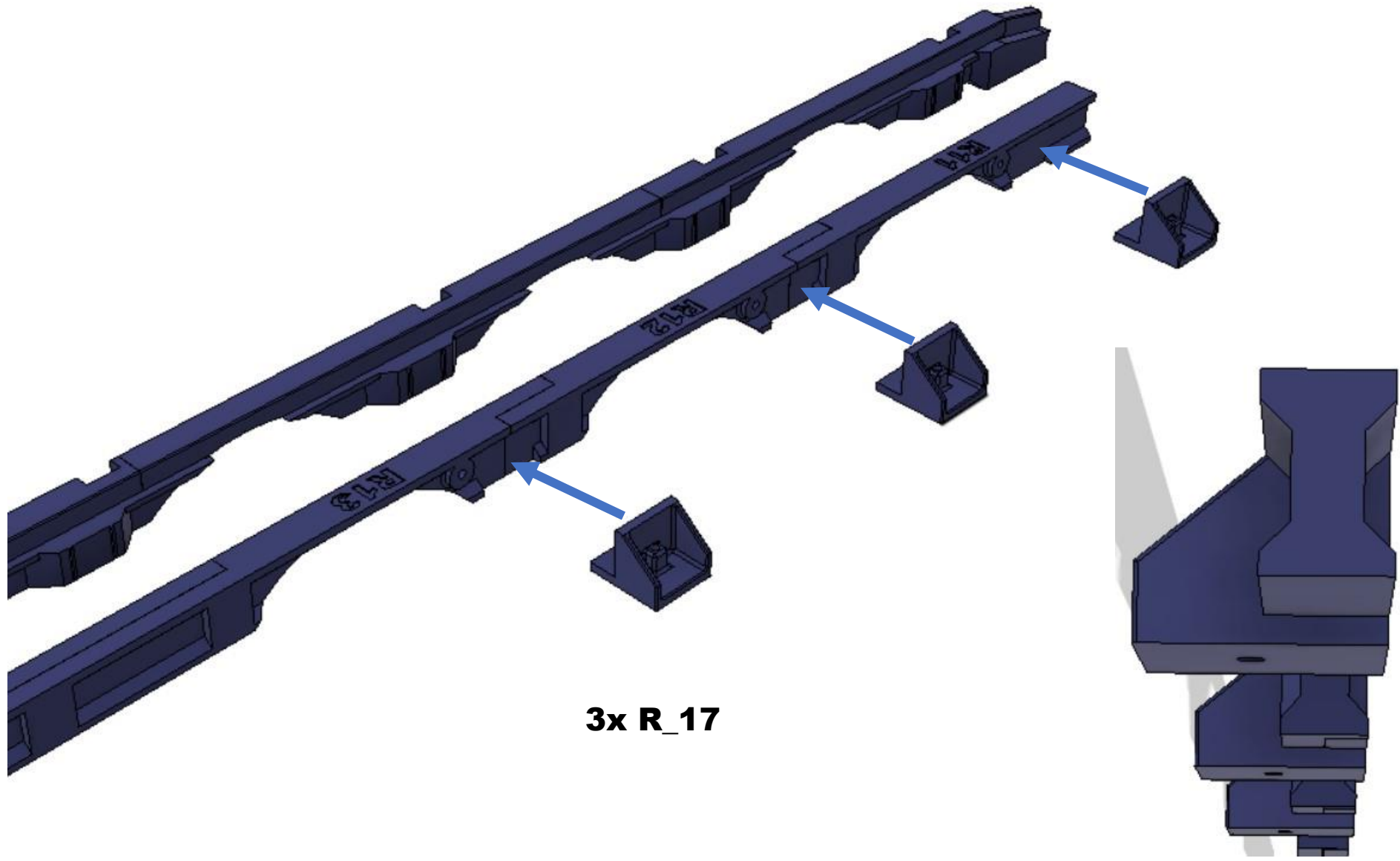
„Chassis\_R“

R\_1 až R\_16

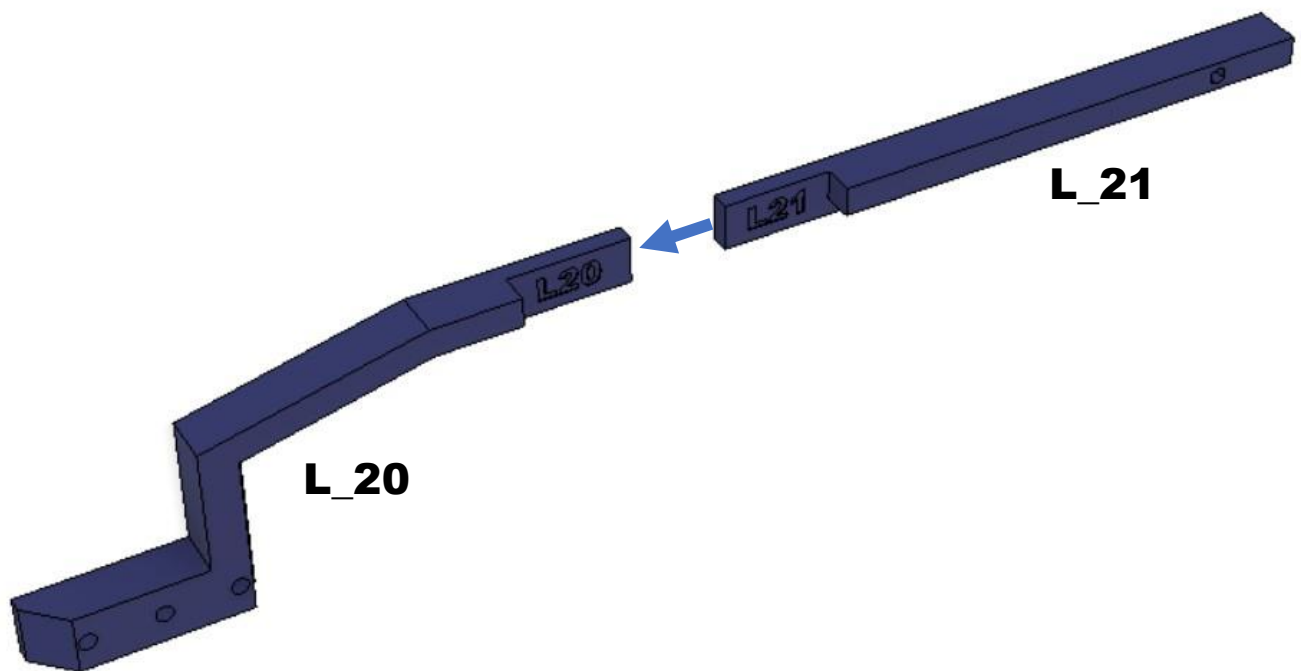
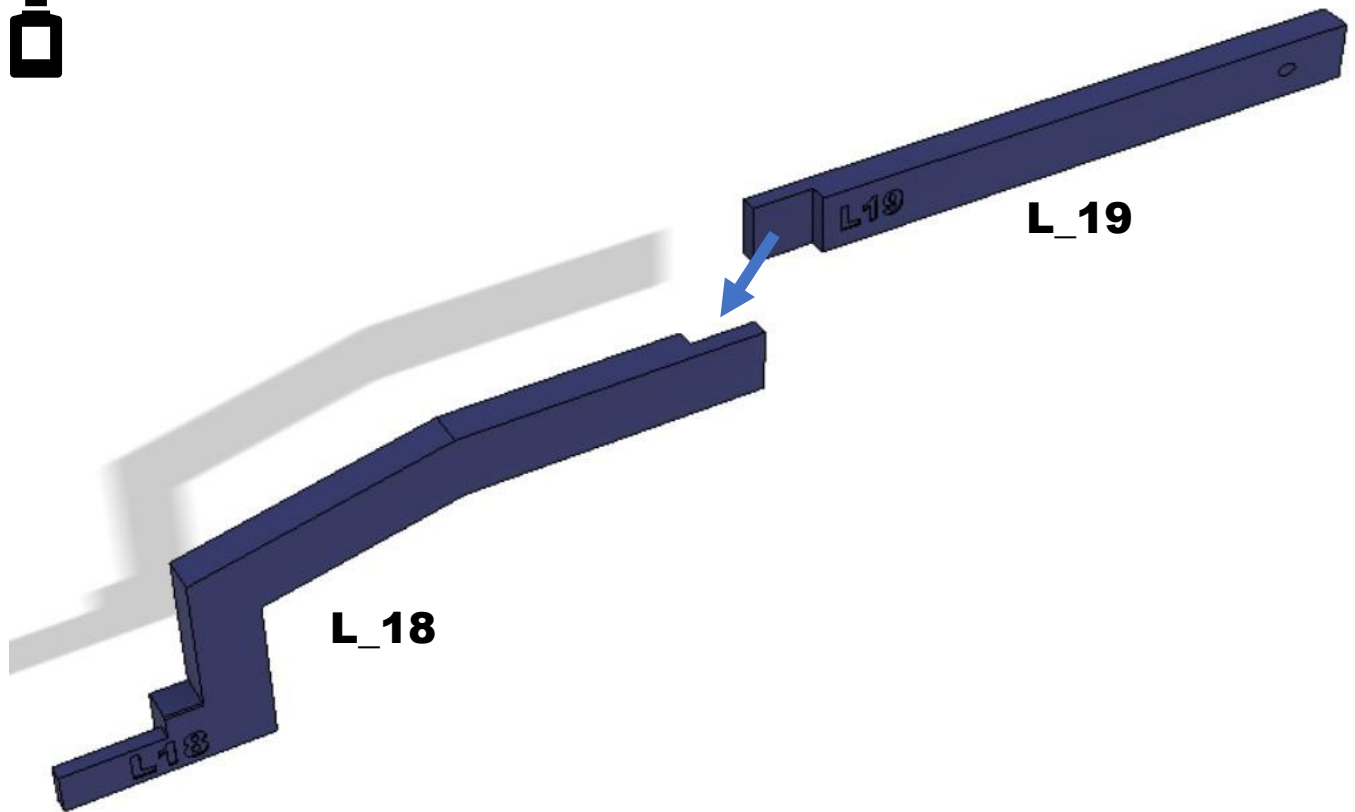




**3x L\_17**



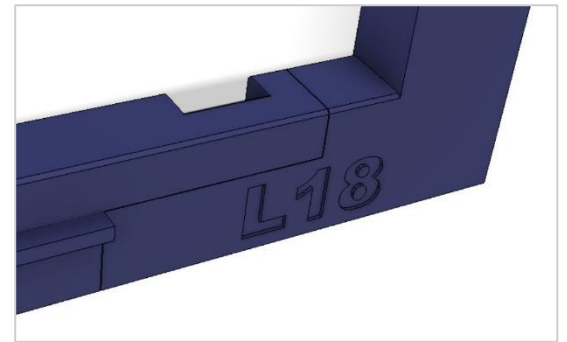
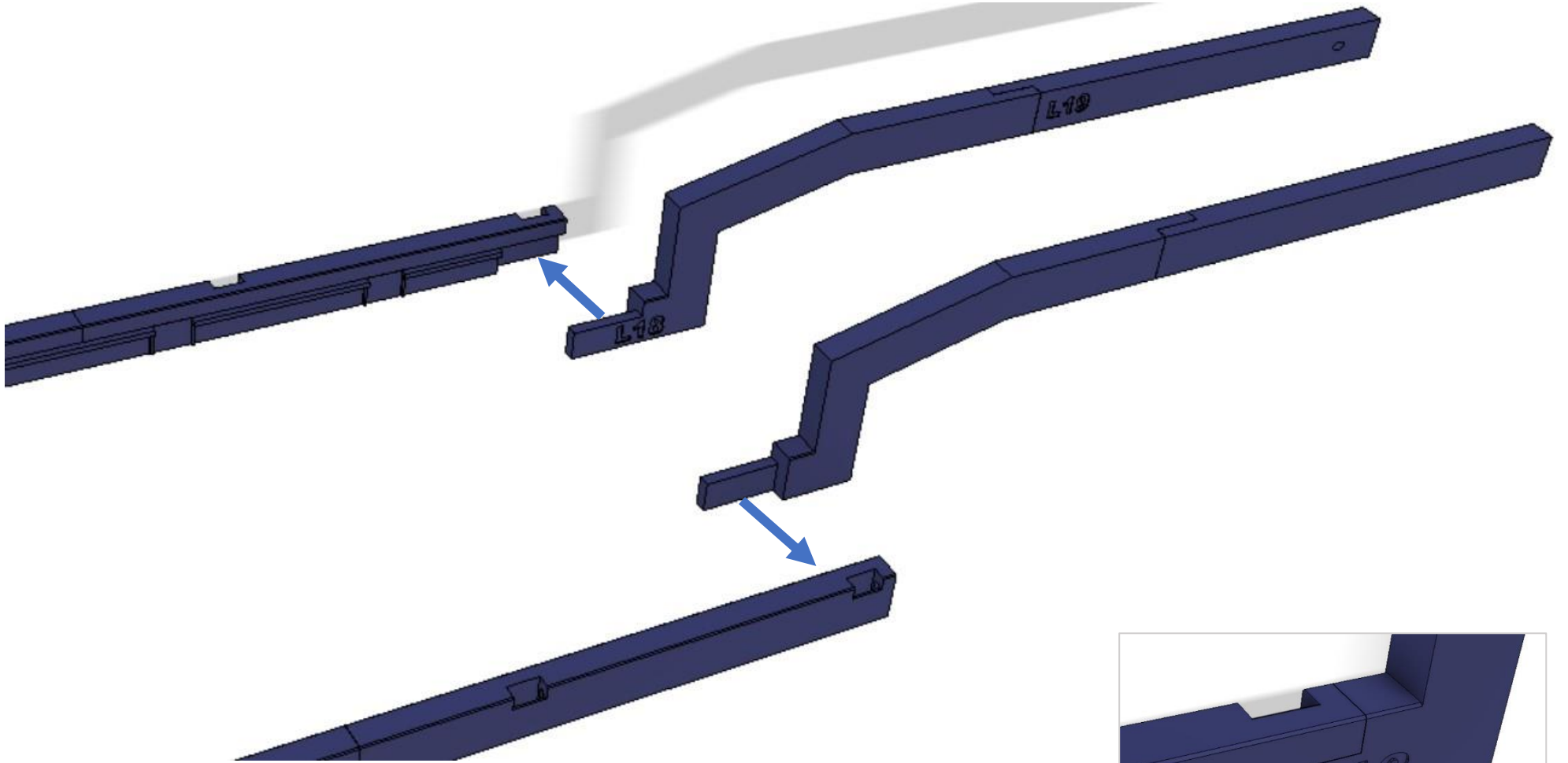
**3x R\_17**



**Pro pravou stranu díly**

**„Chassis R“**

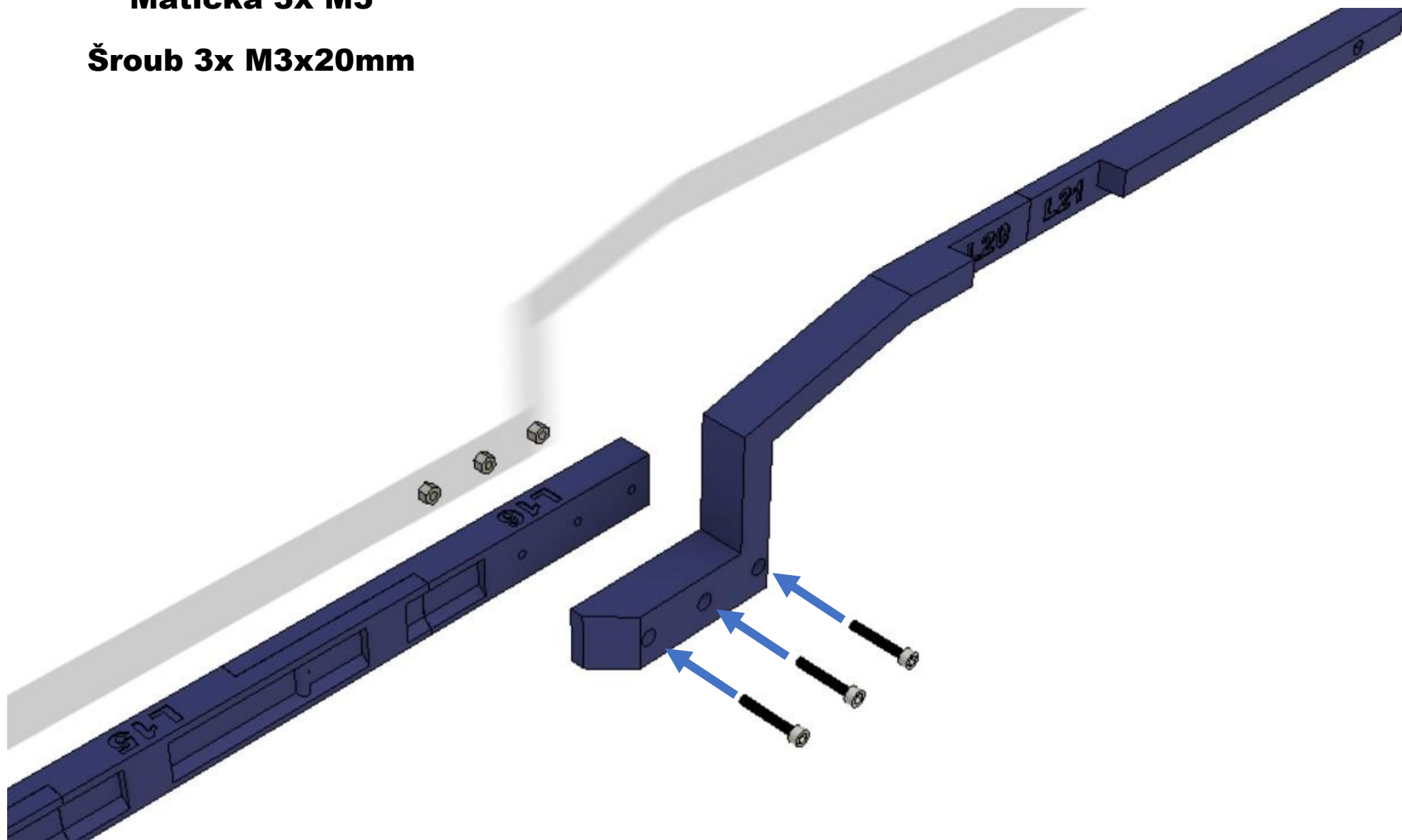
**R\_18 až R\_21**





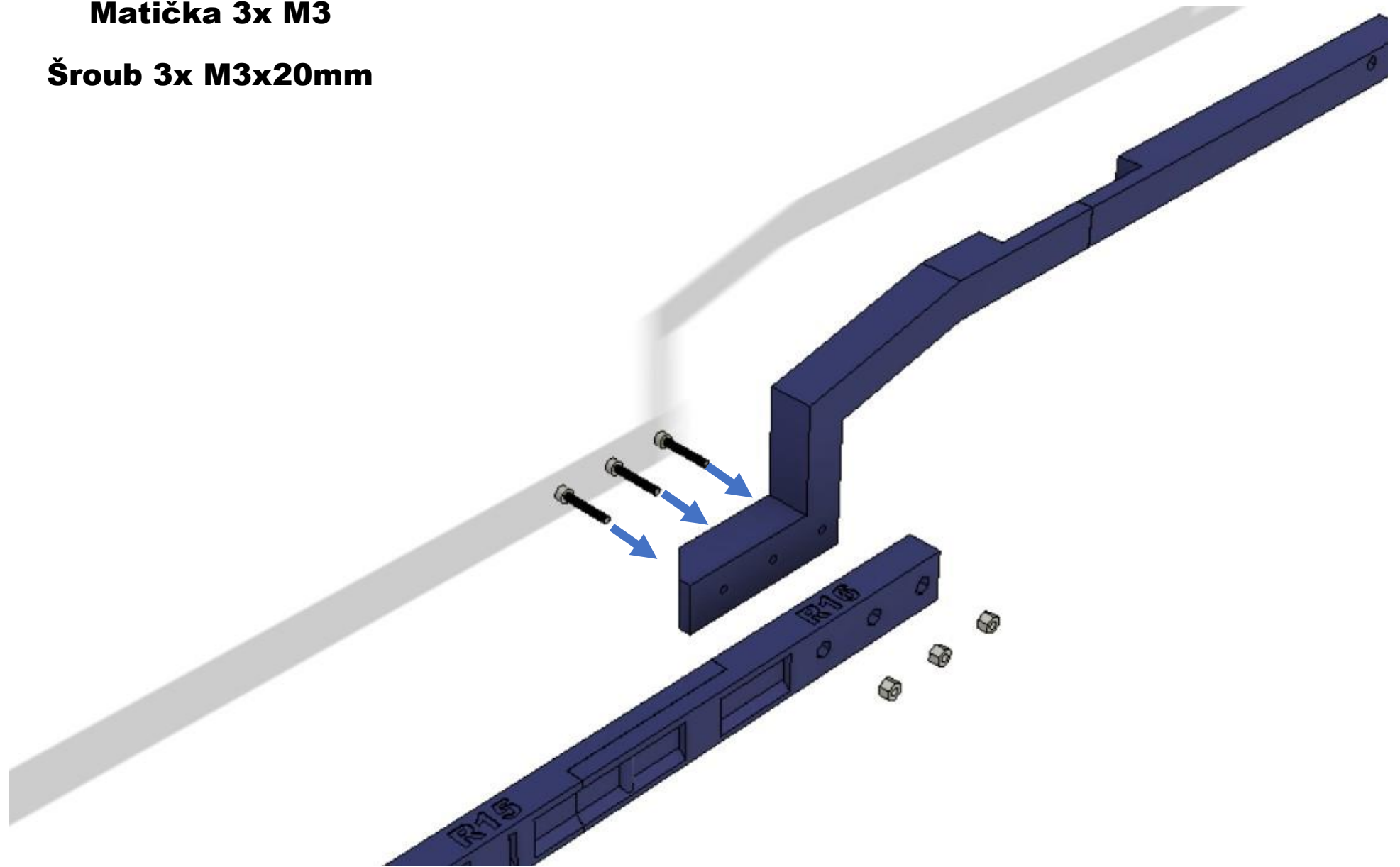
**Matička 3x M3**

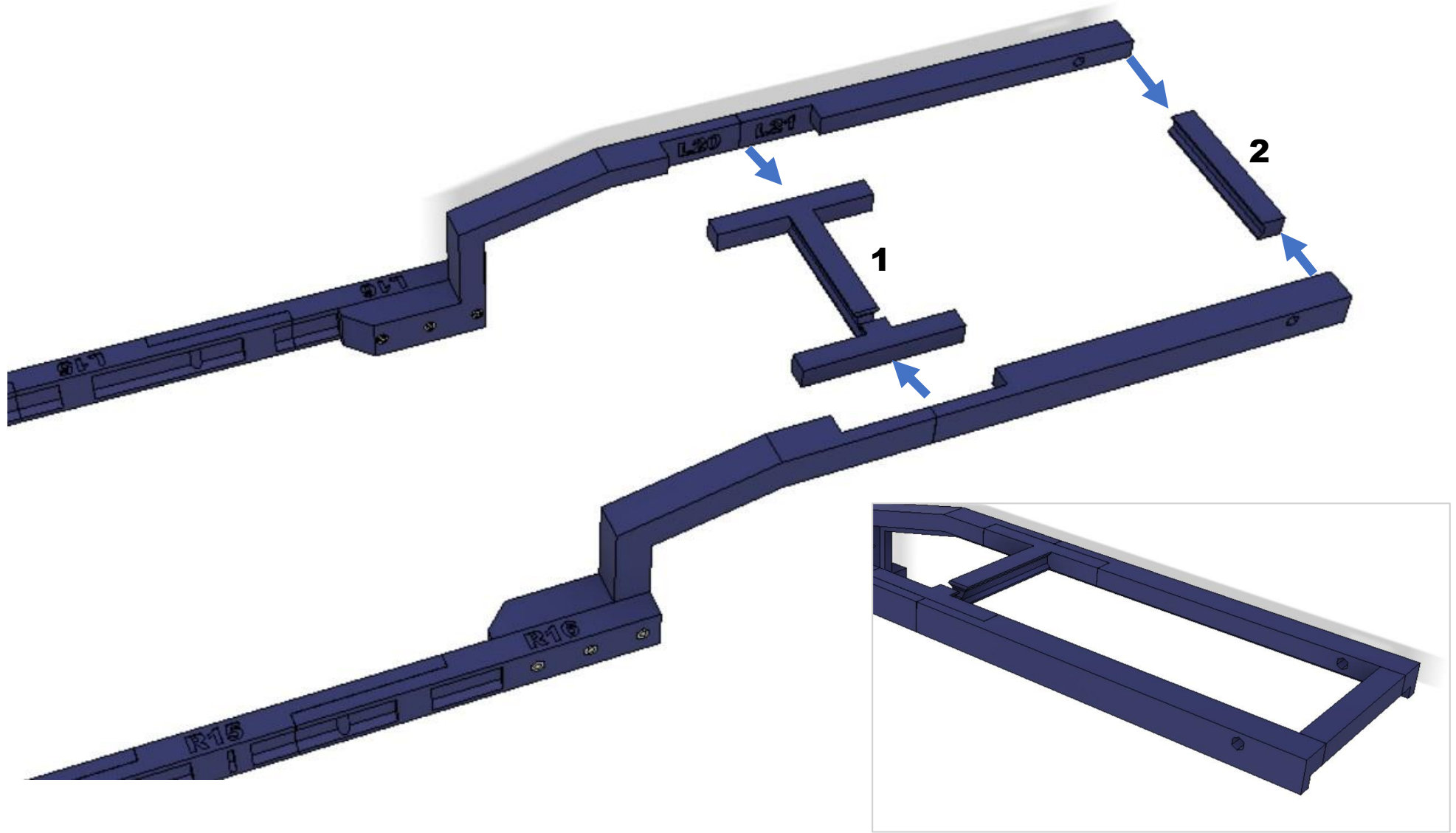
**Šroub 3x M3x20mm**



**Matička 3x M3**

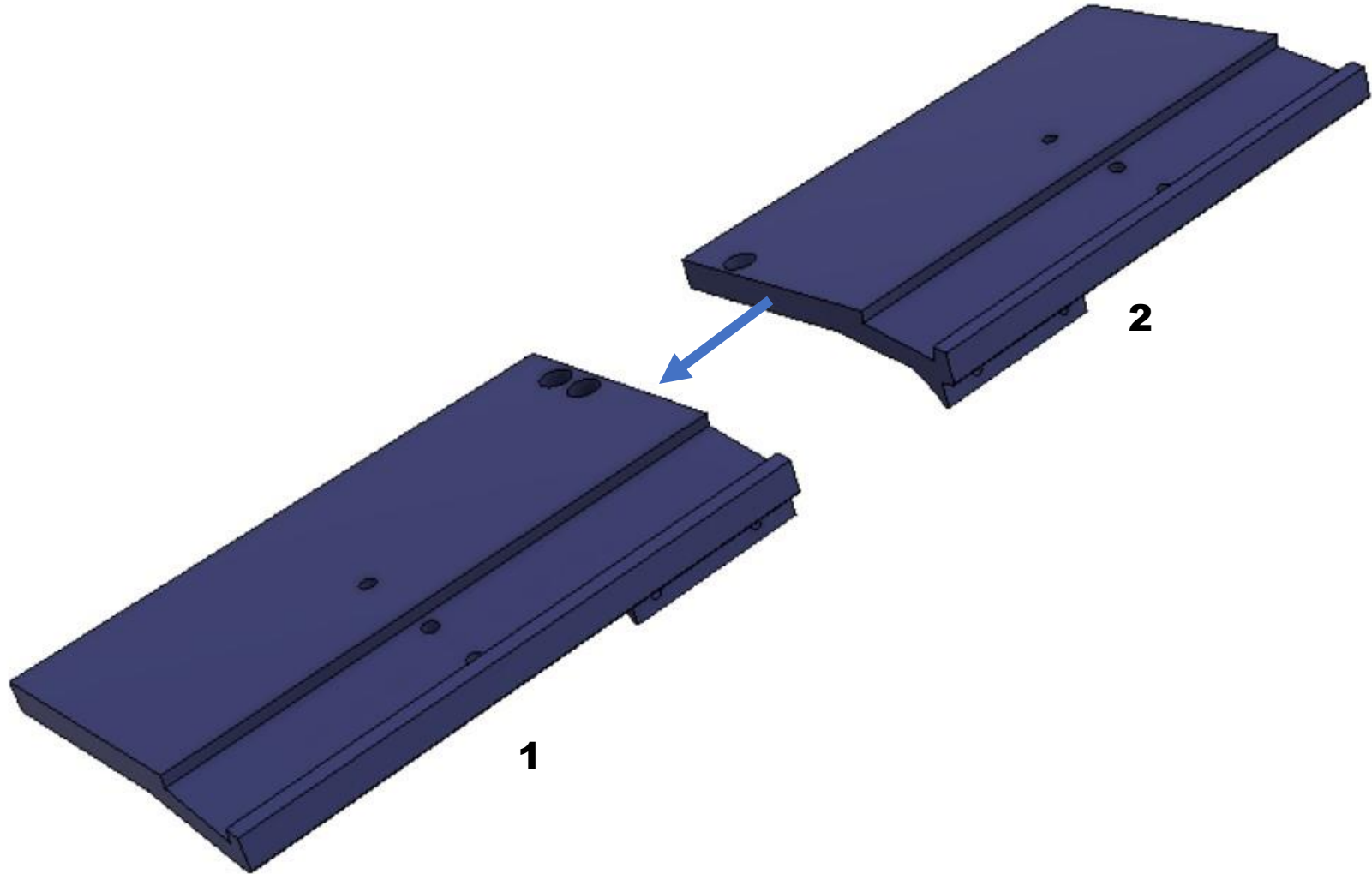
**Šroub 3x M3x20mm**

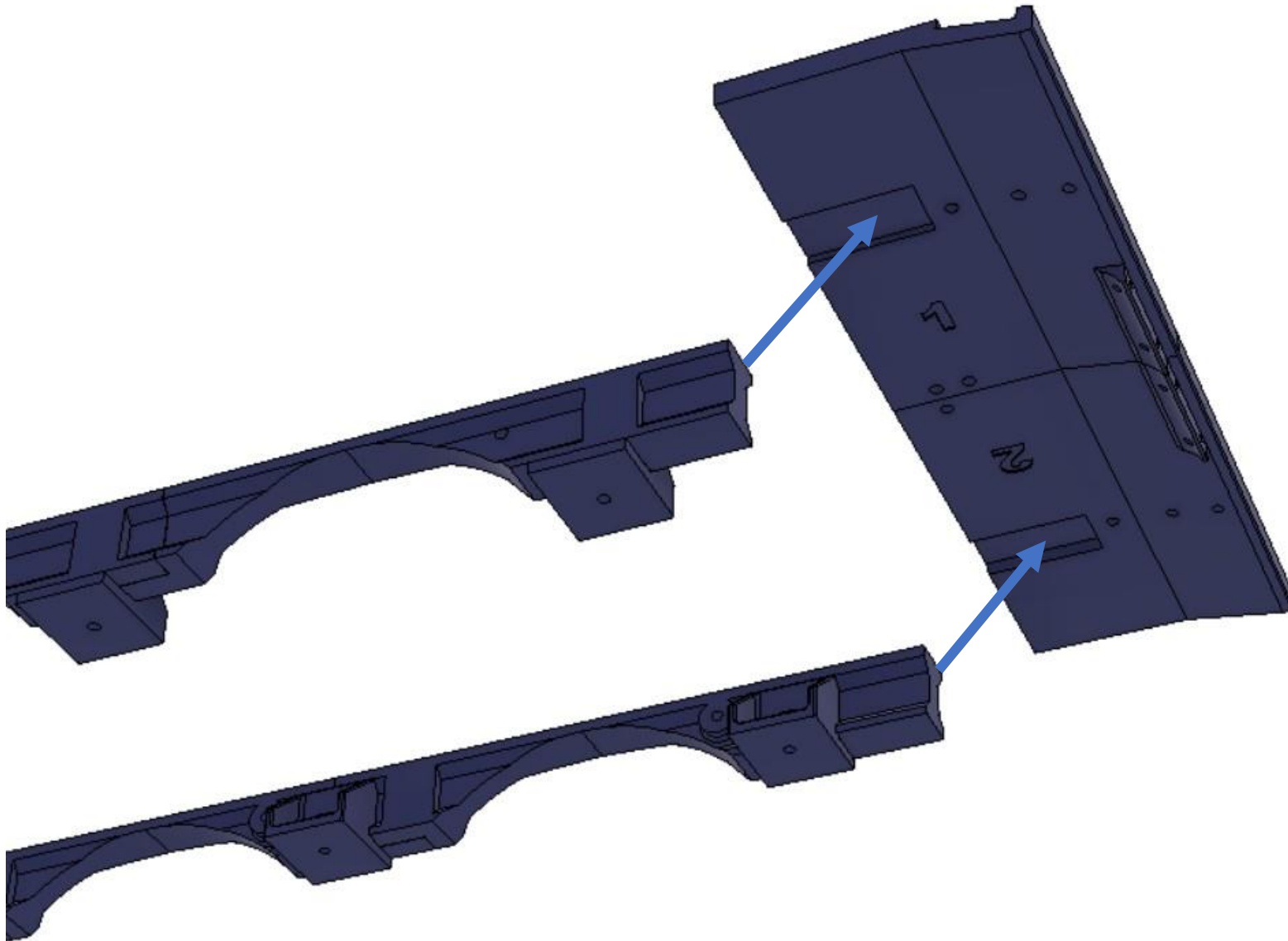






# Floor







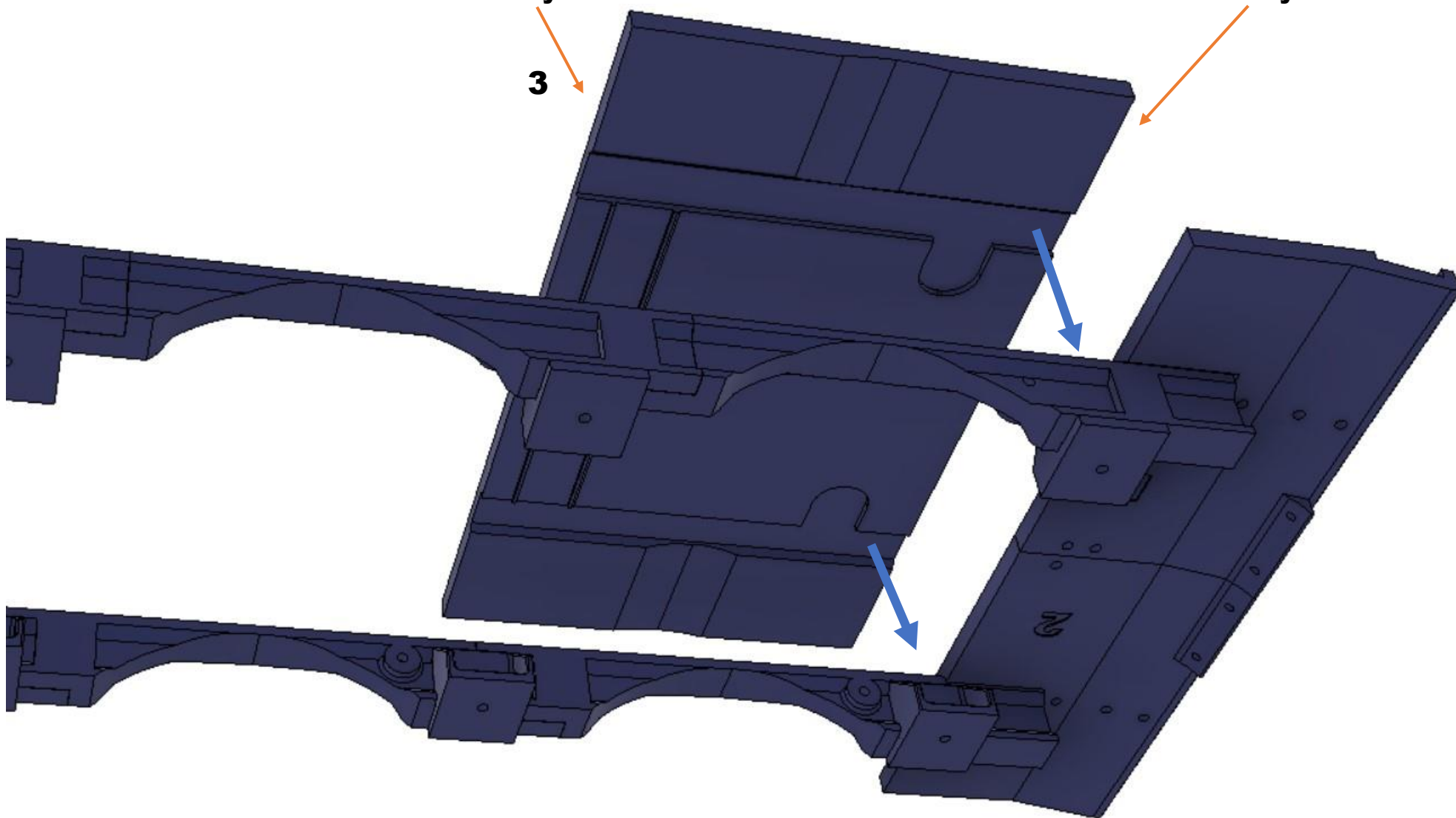
Díly „Floor\_3 až \_7“ nejprve usadíte bez lepení. Pokud vše sedí, přilepte. Pokud ne, musíte každý díl zbrousit

tady

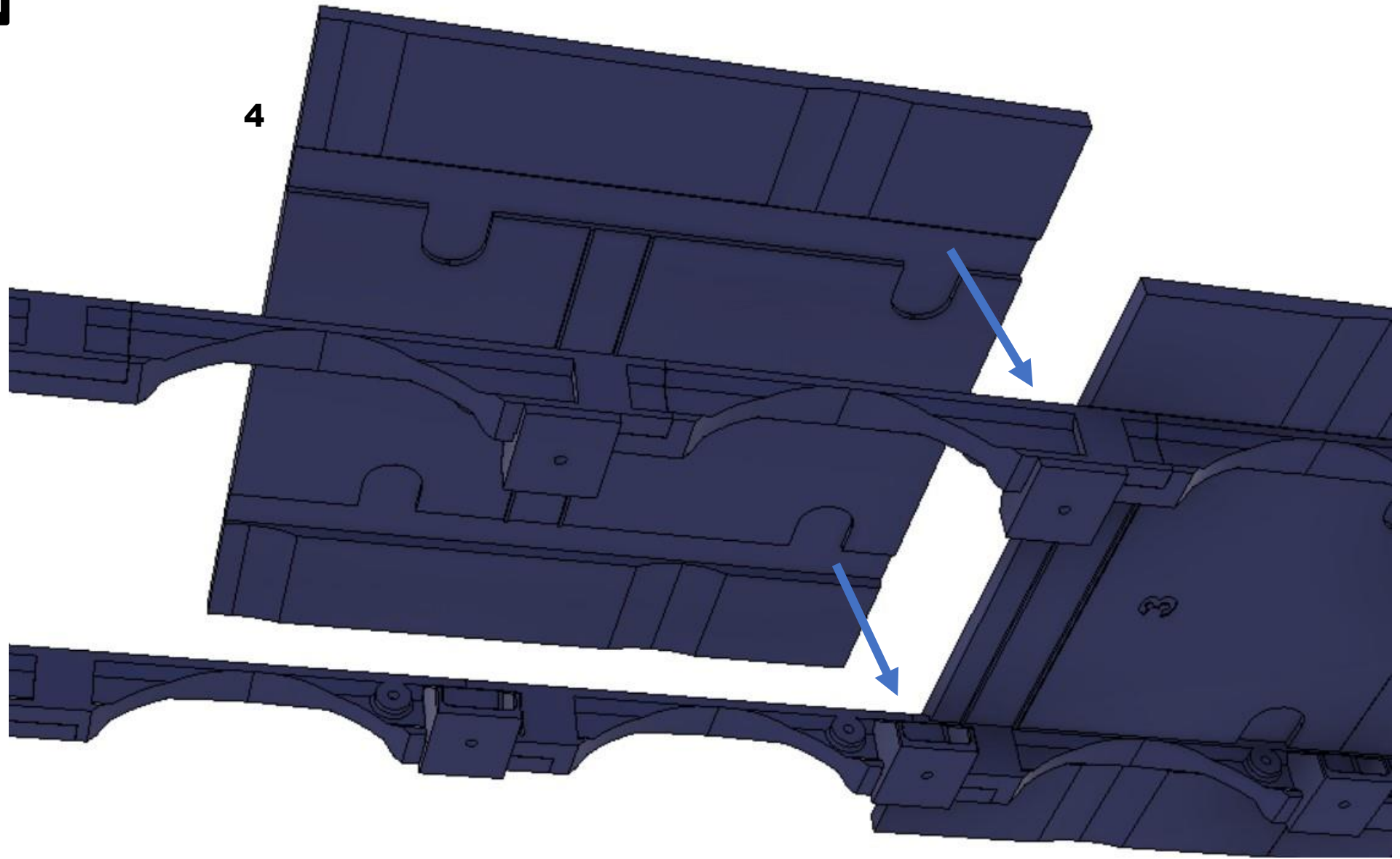
a

tady.

3

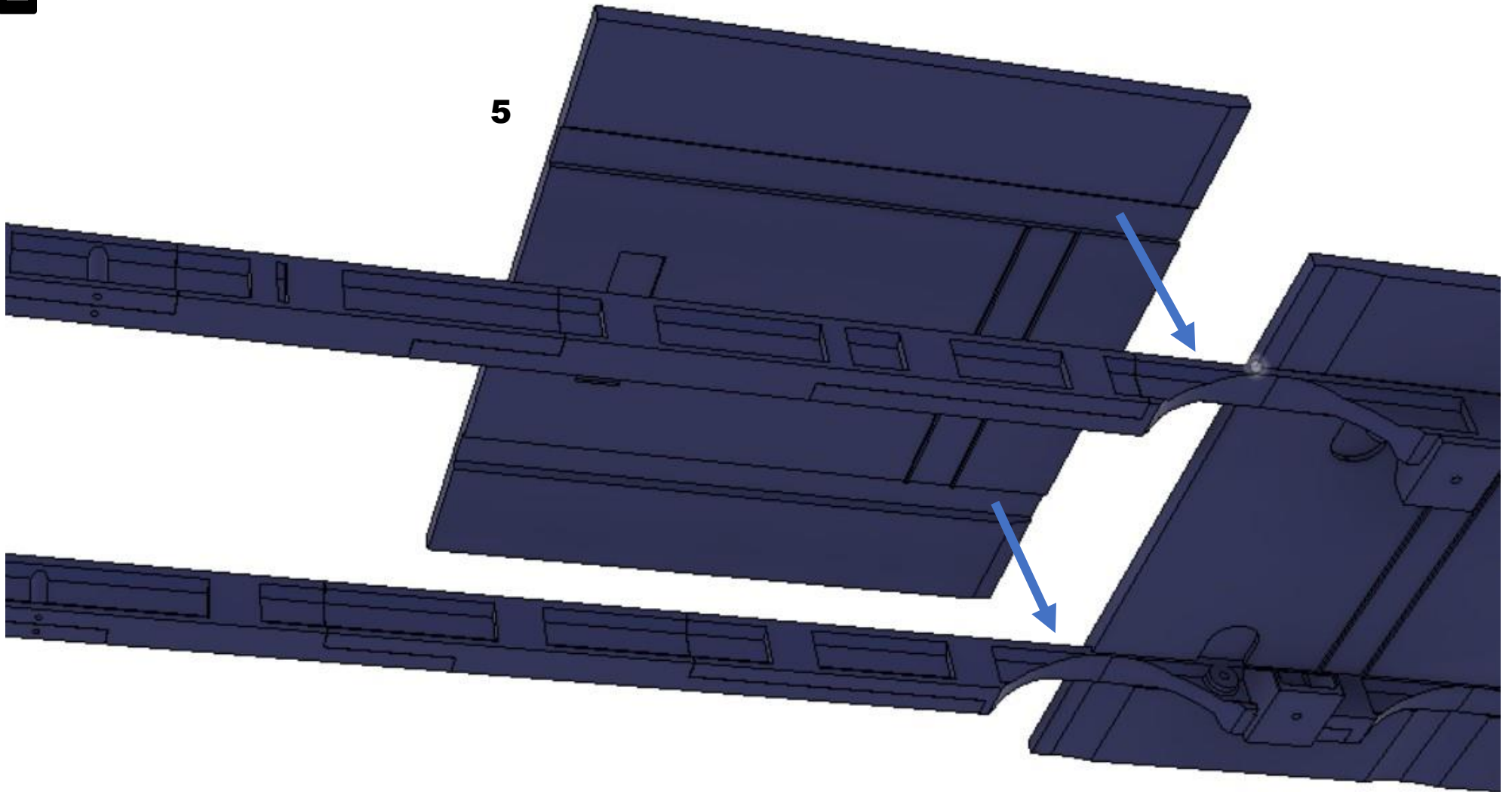


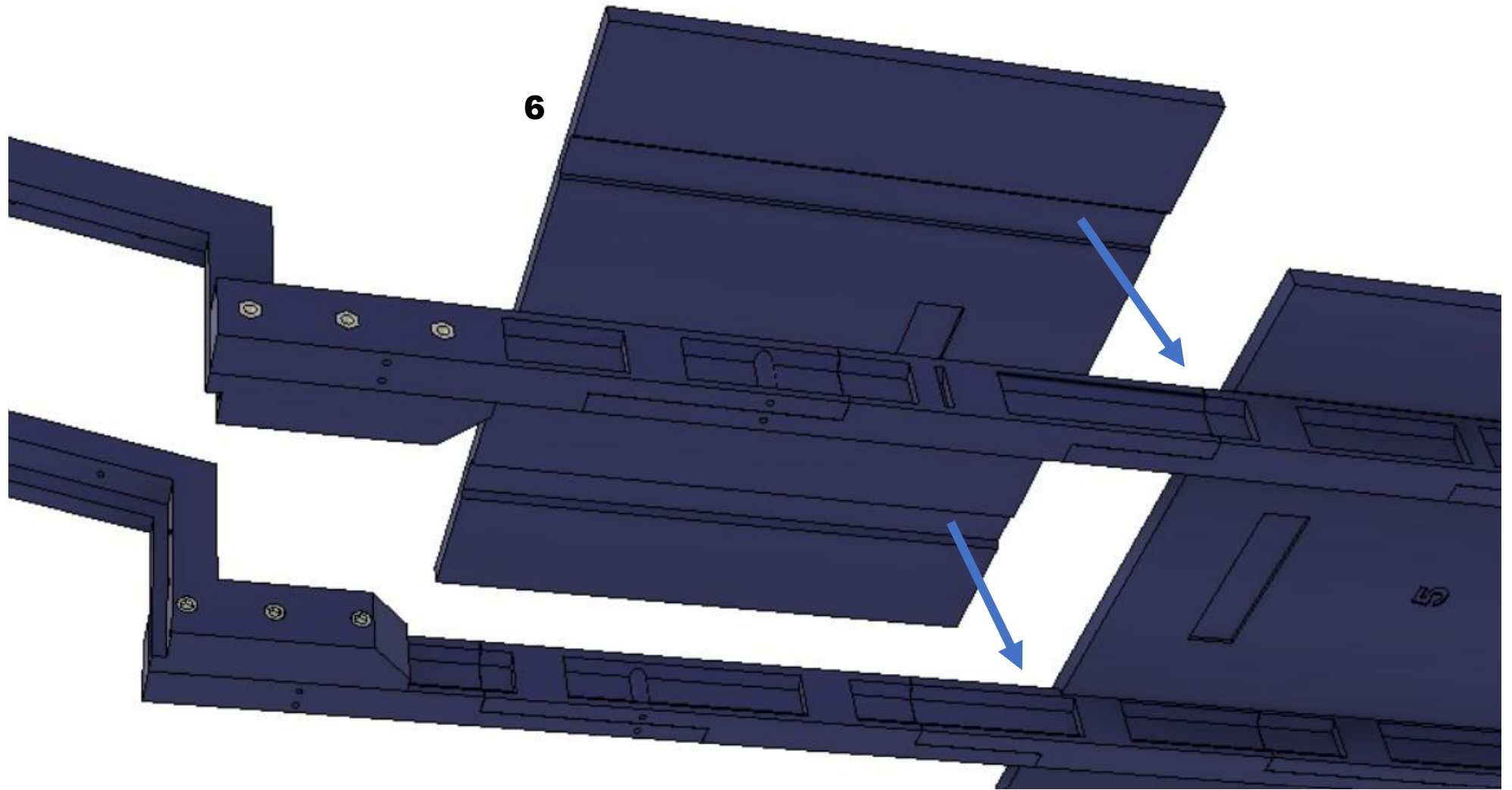






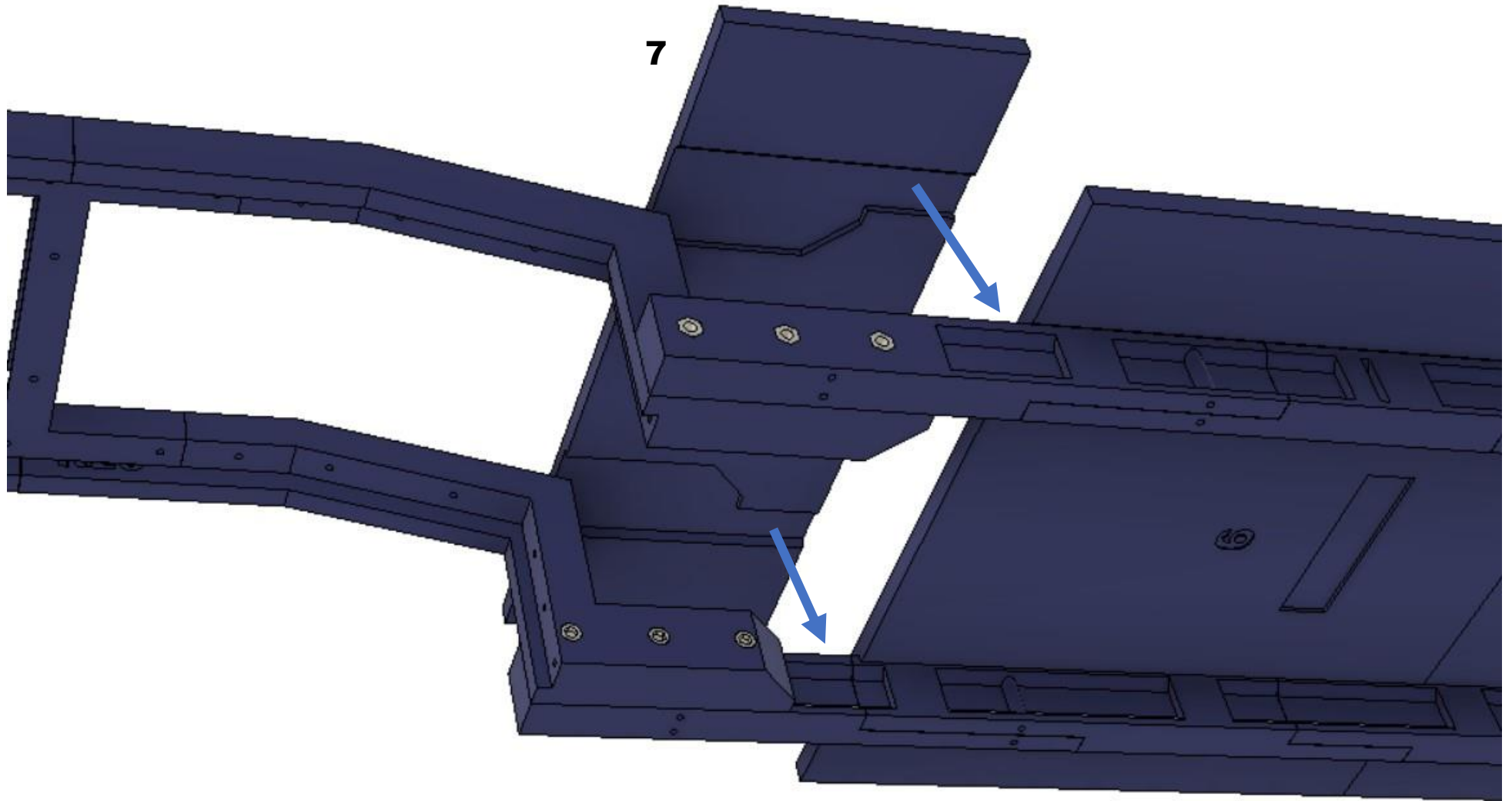
5

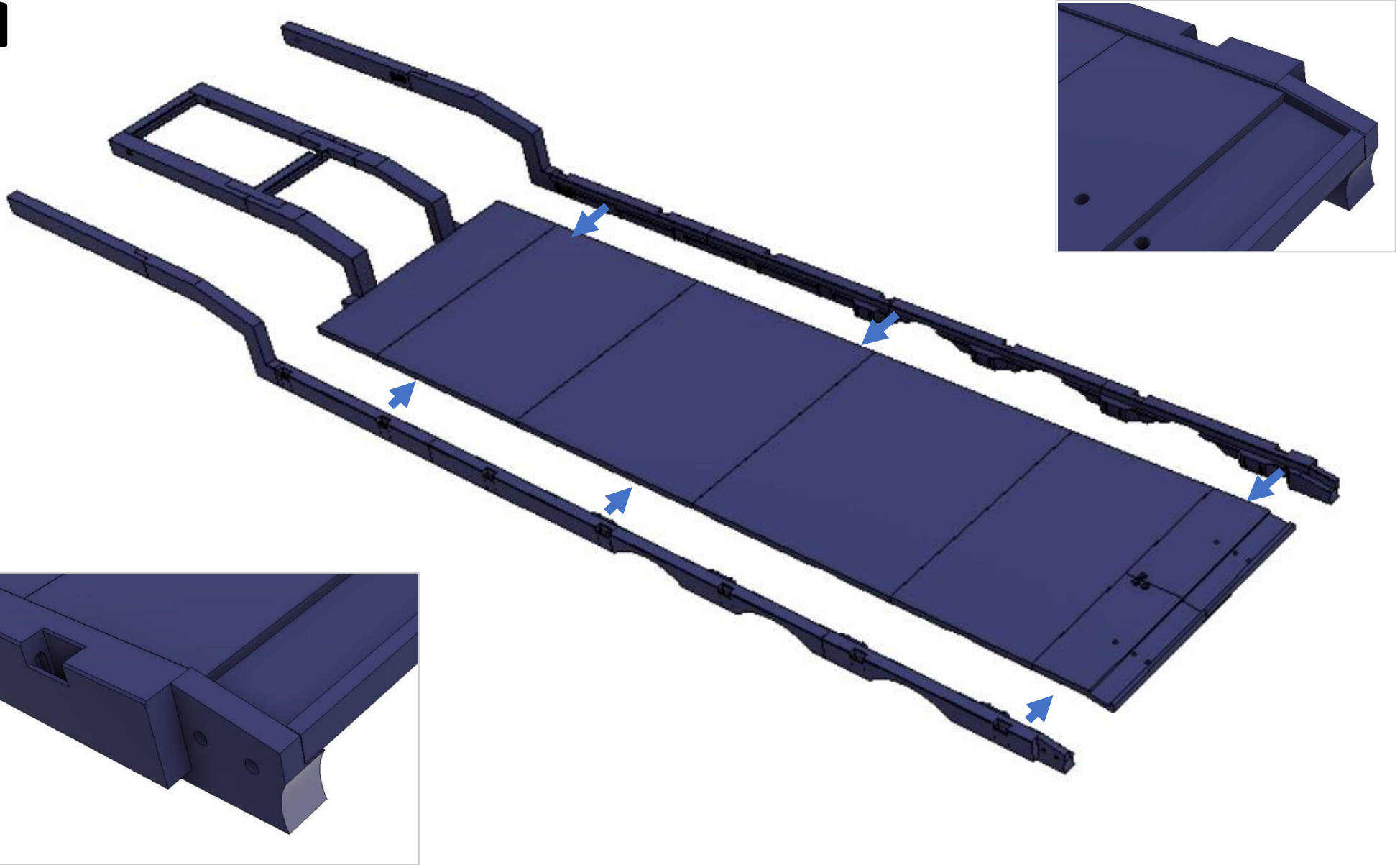




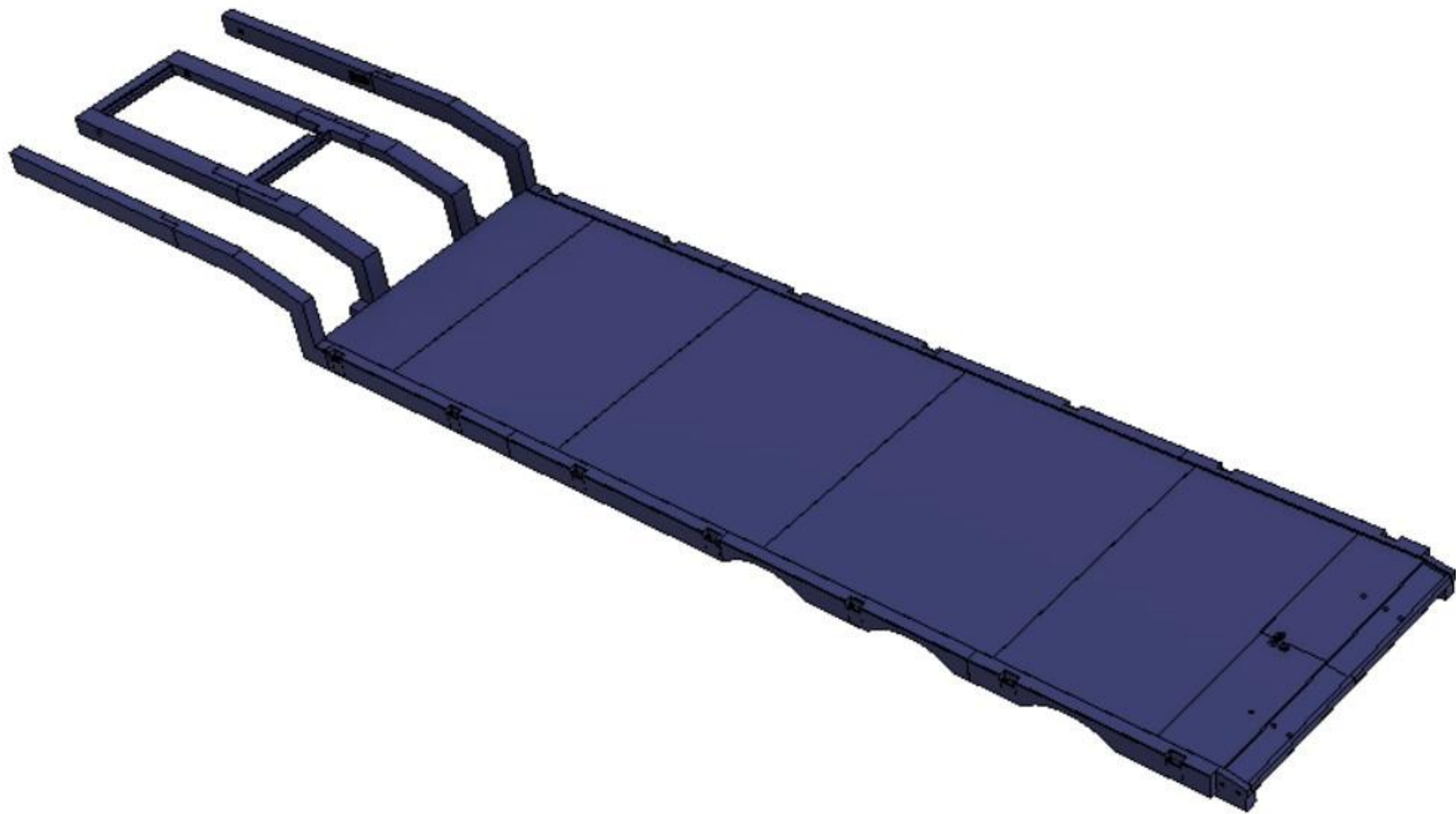


7

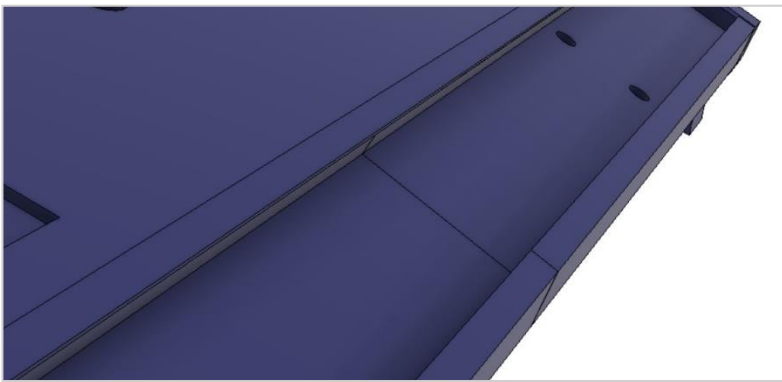
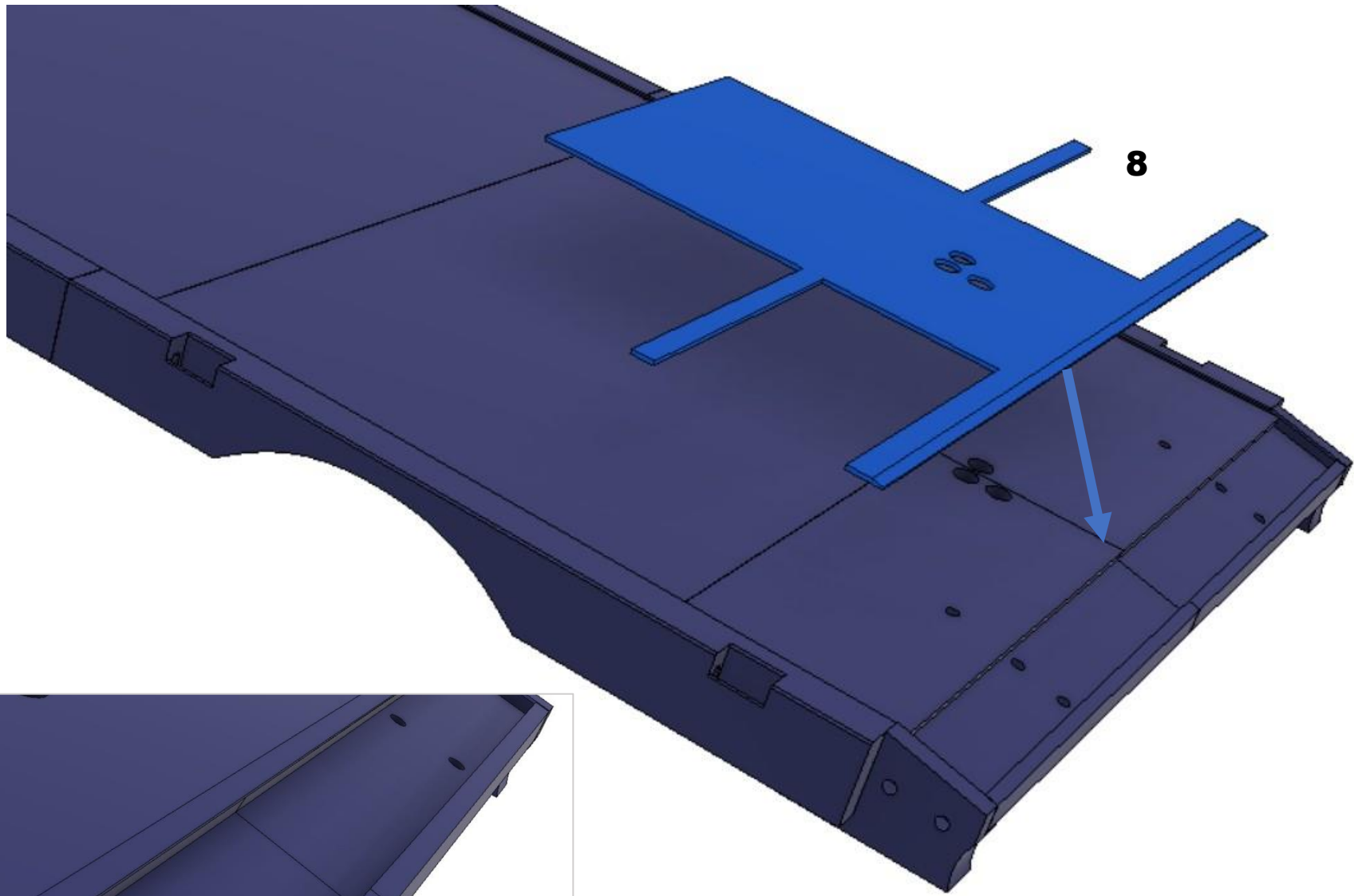


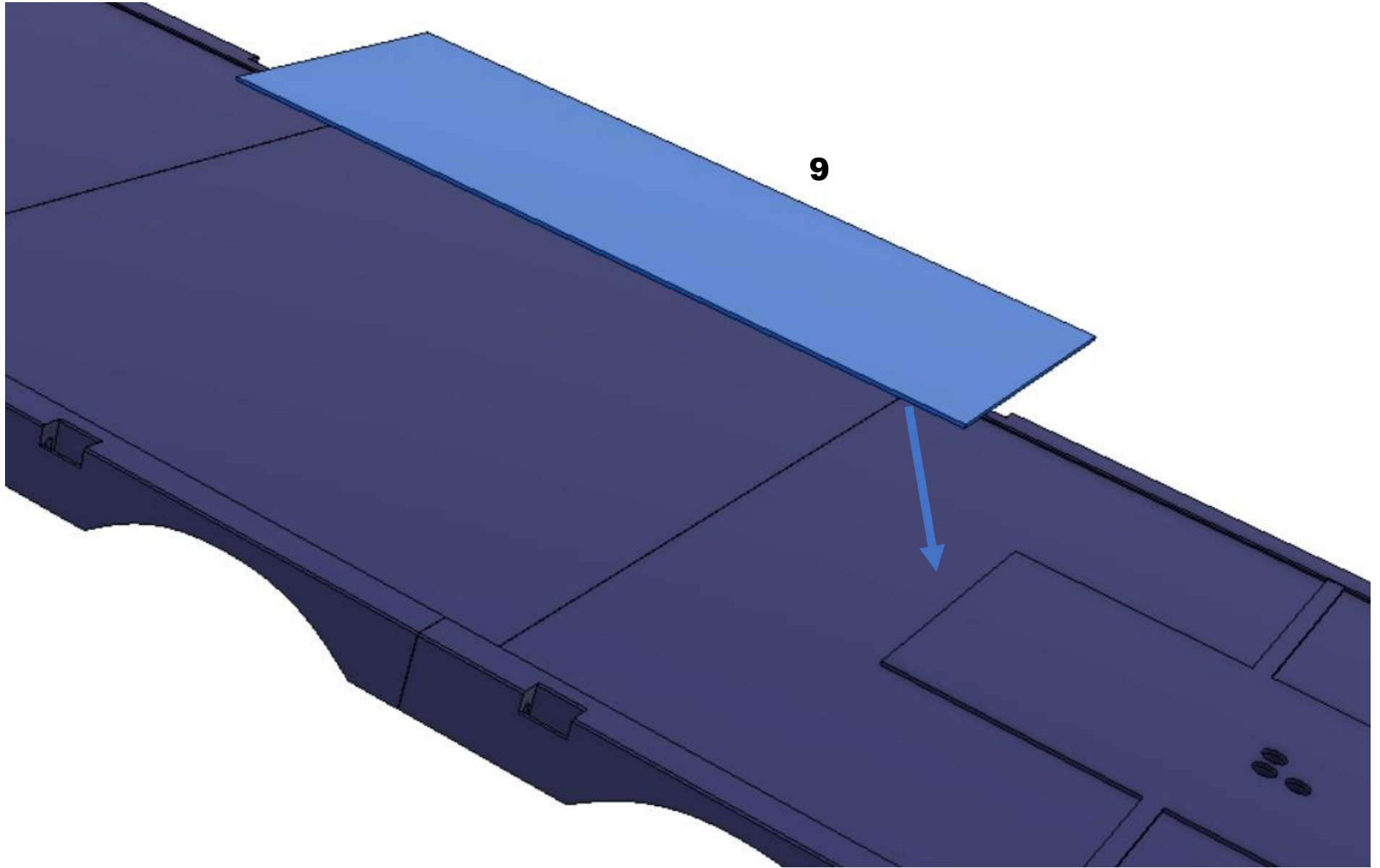


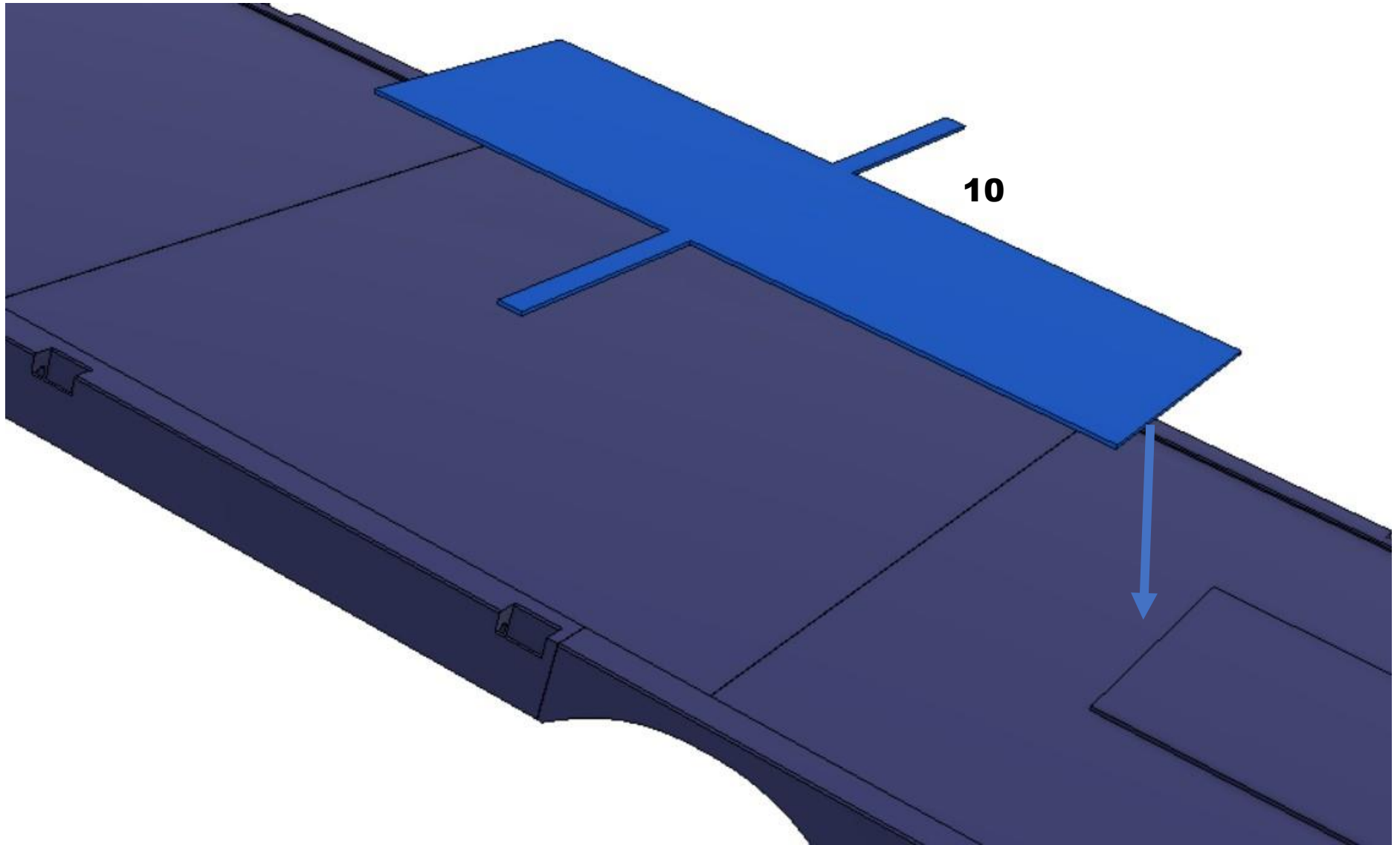


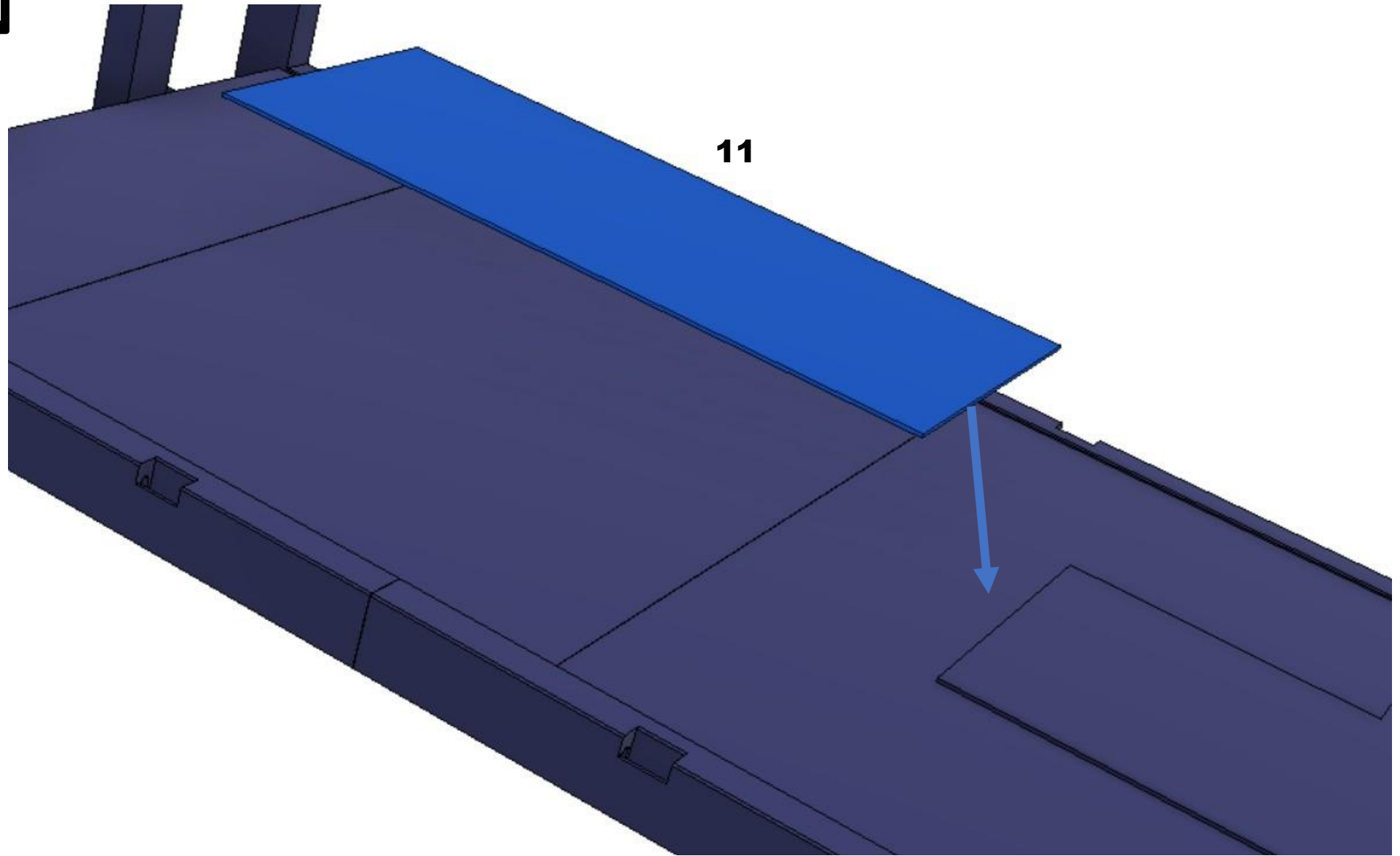


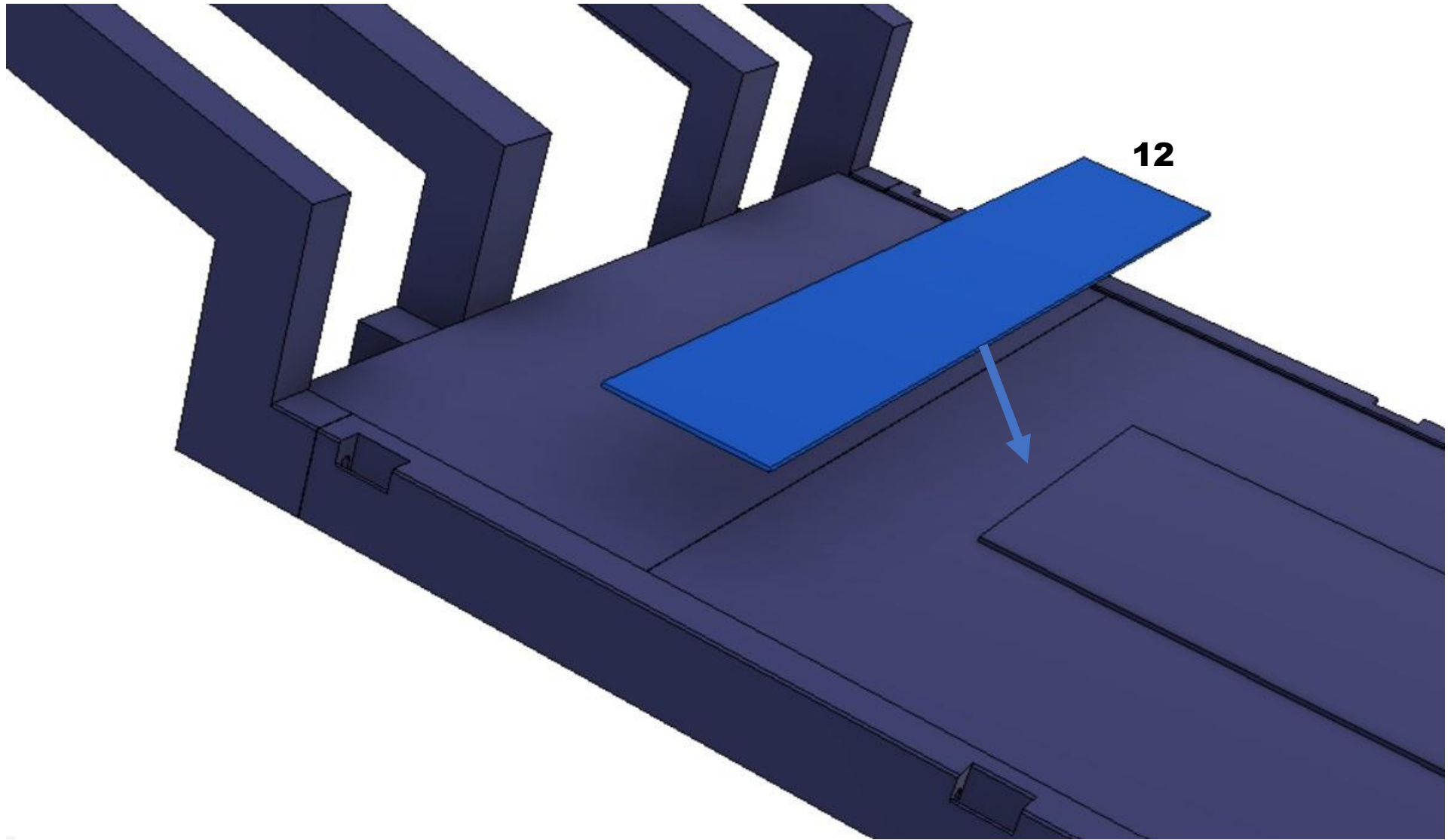


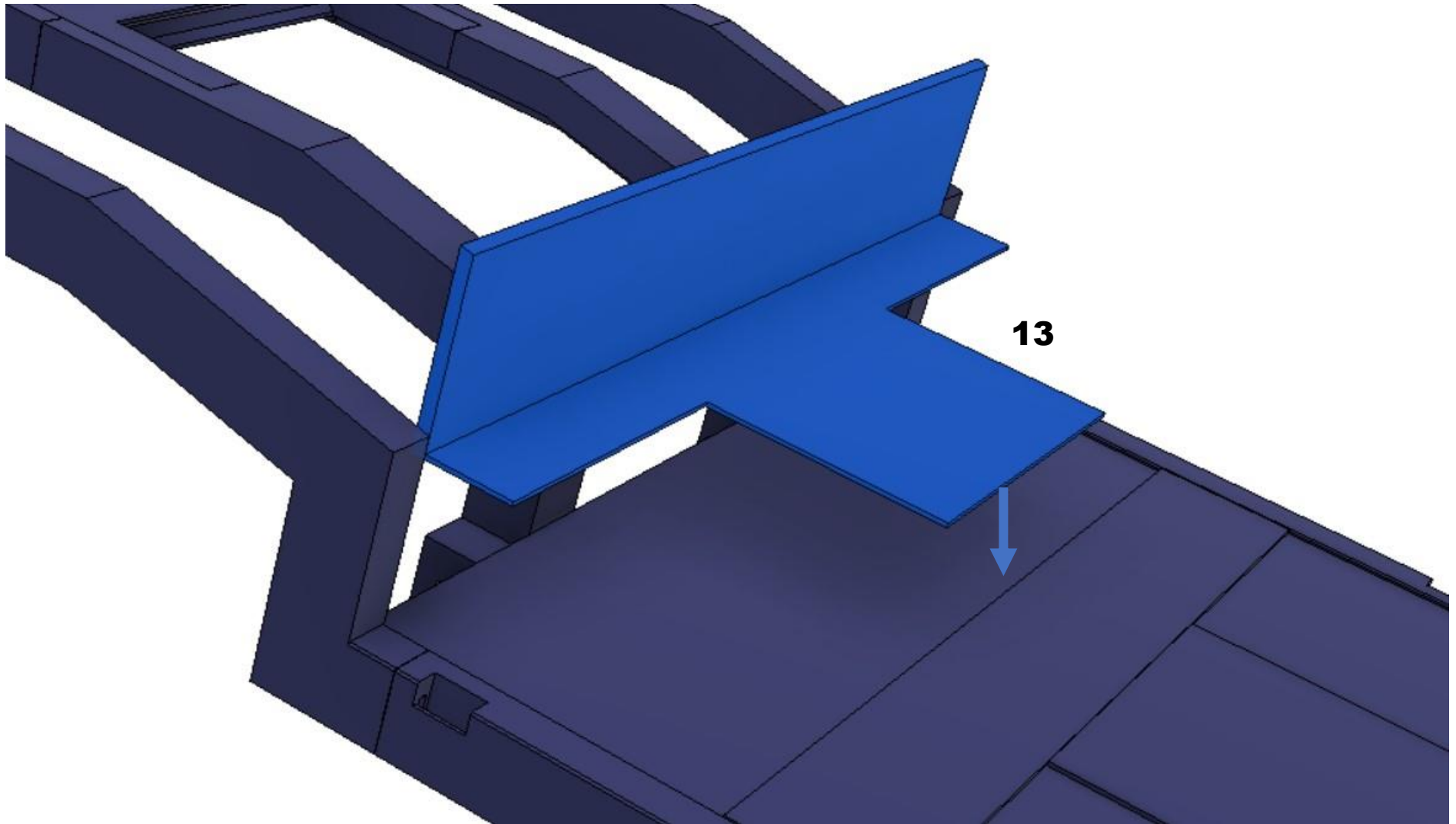




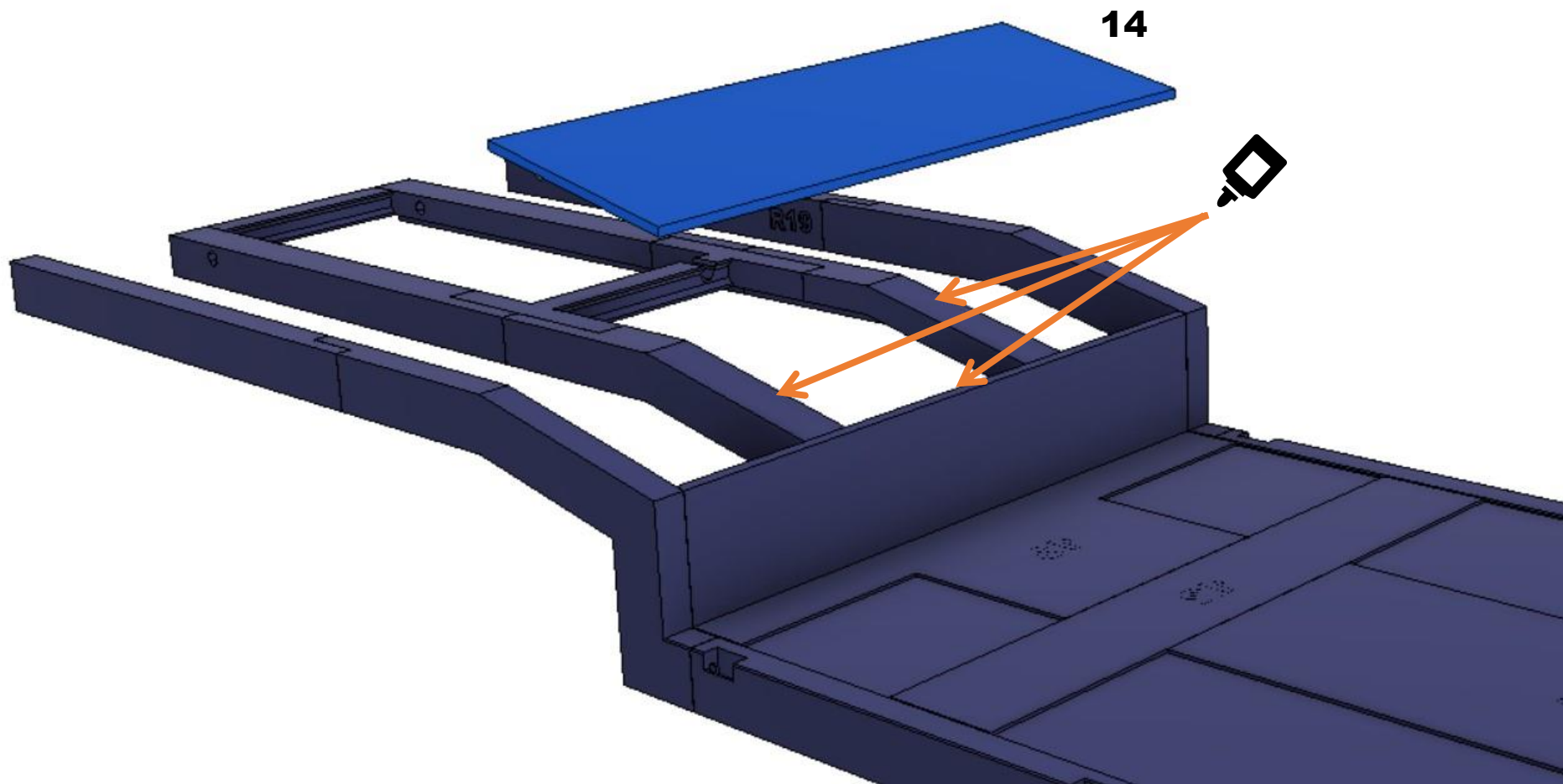


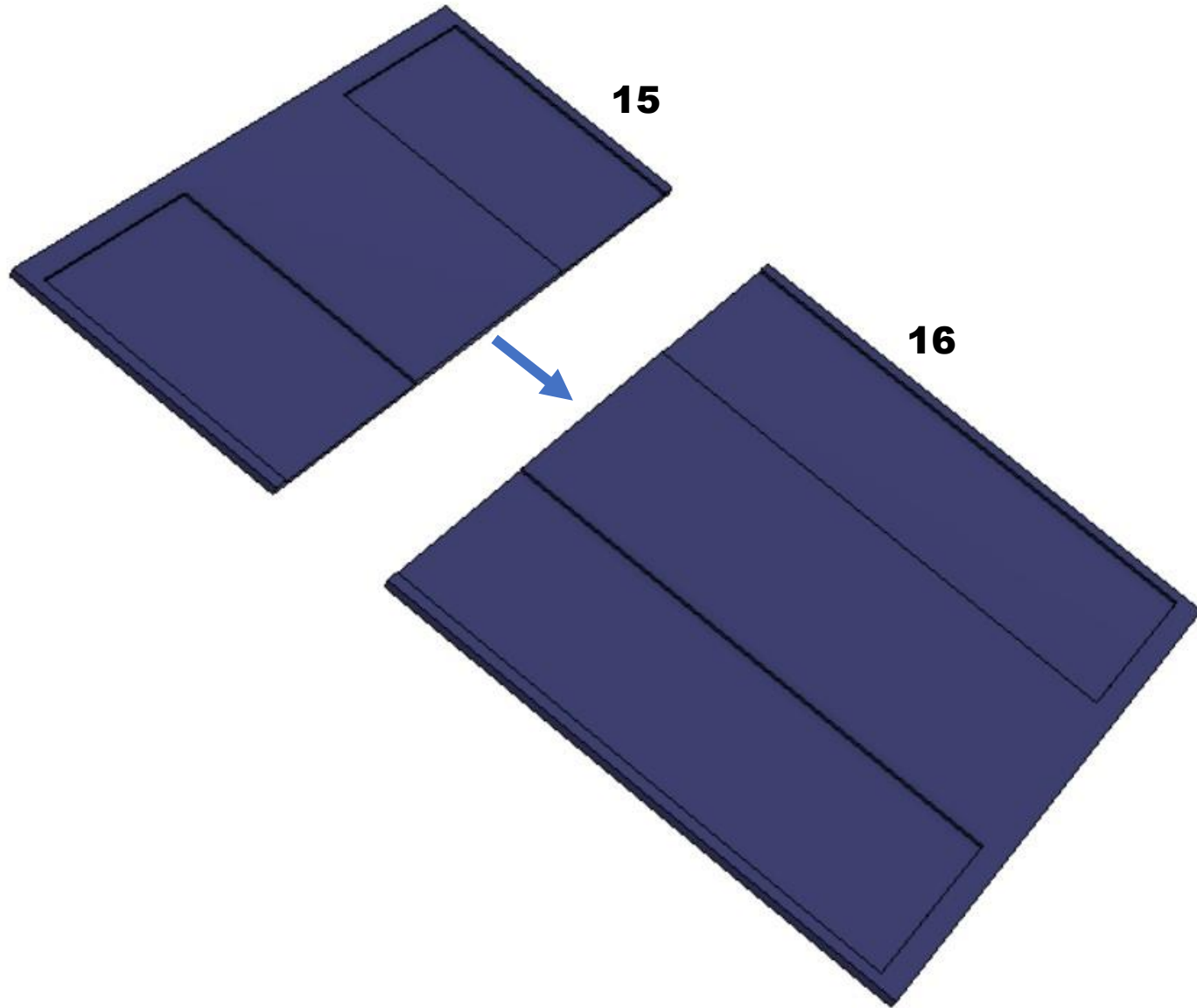




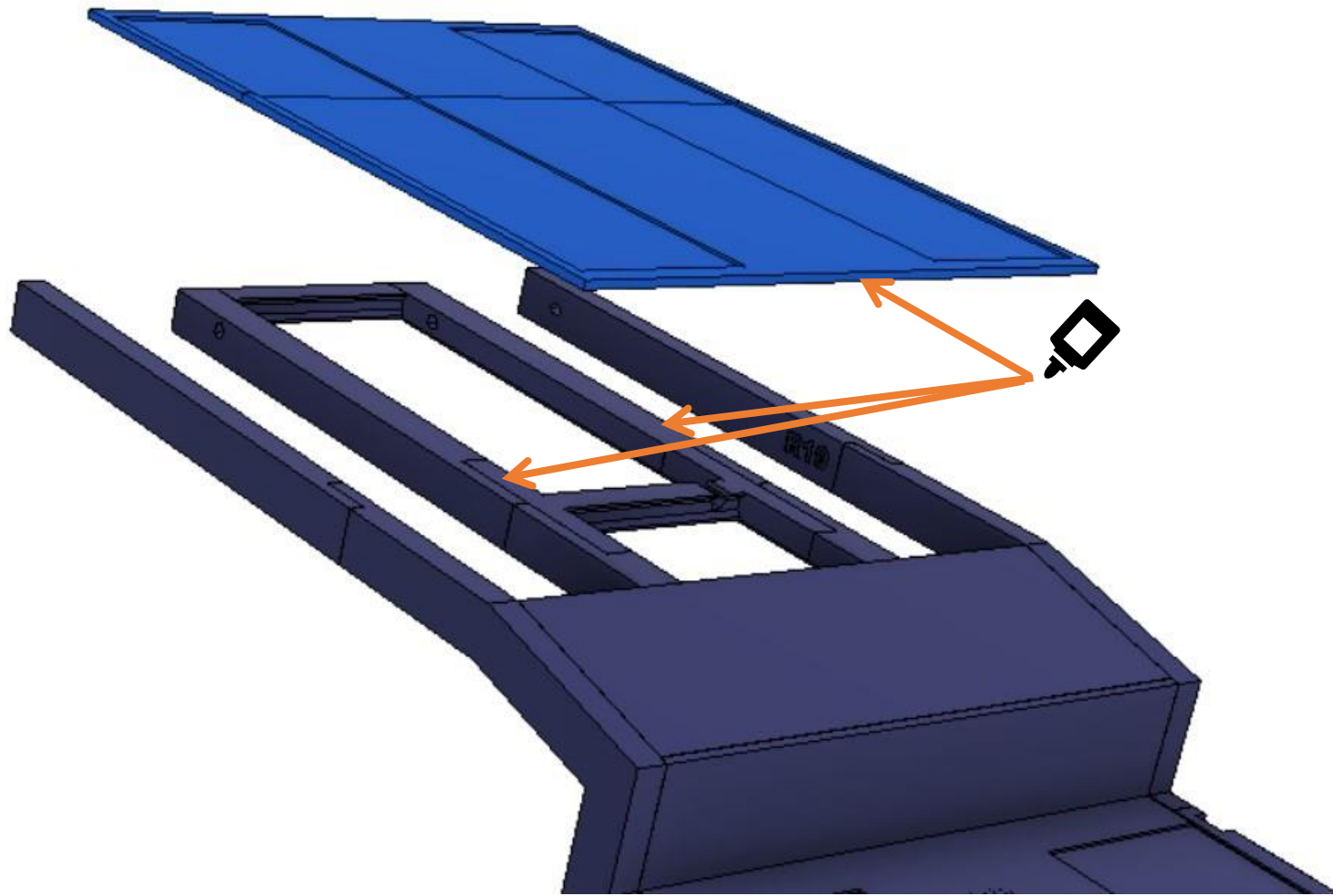




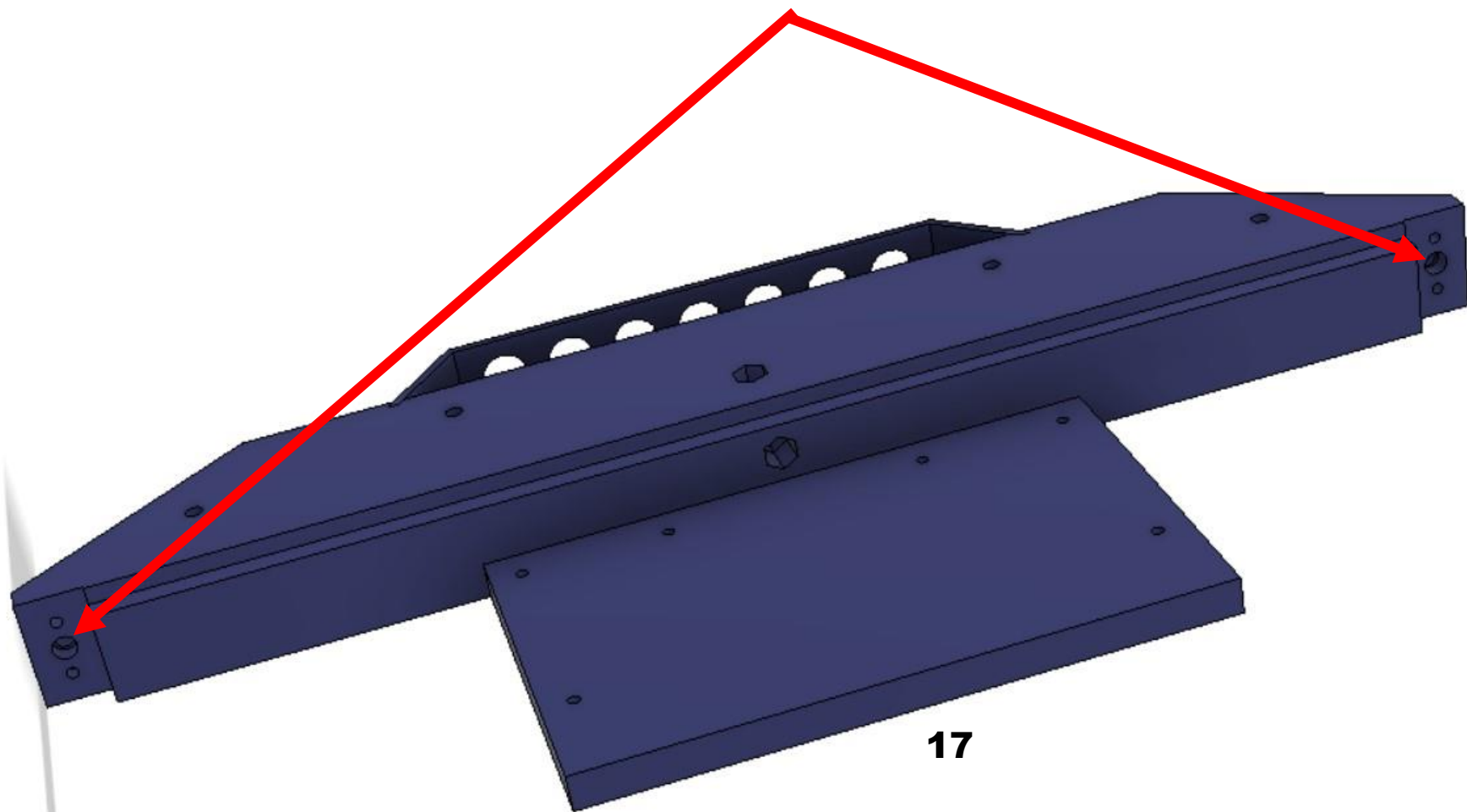




5)



**Do otvorů vložte LED 3mm bílé**

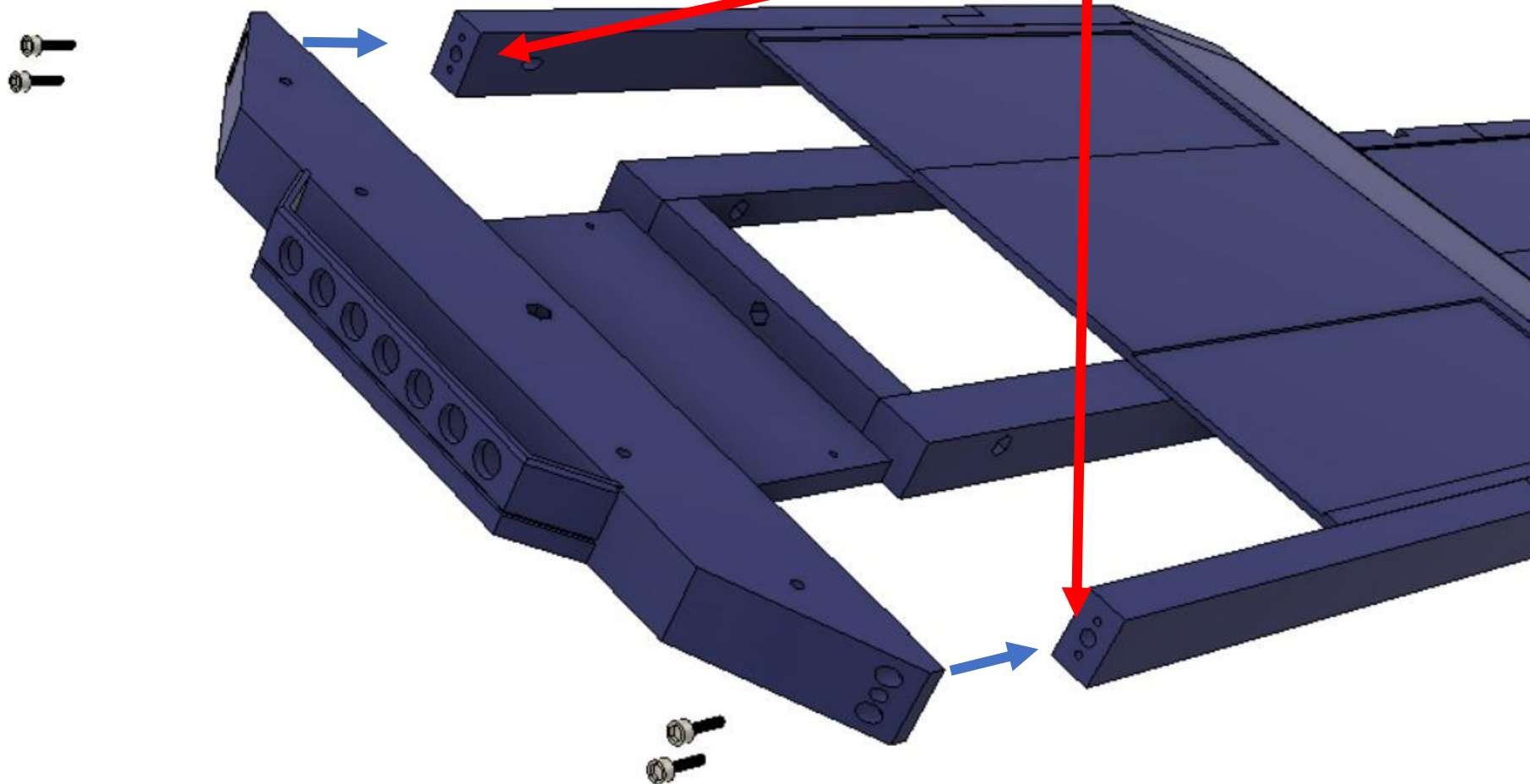


**17**

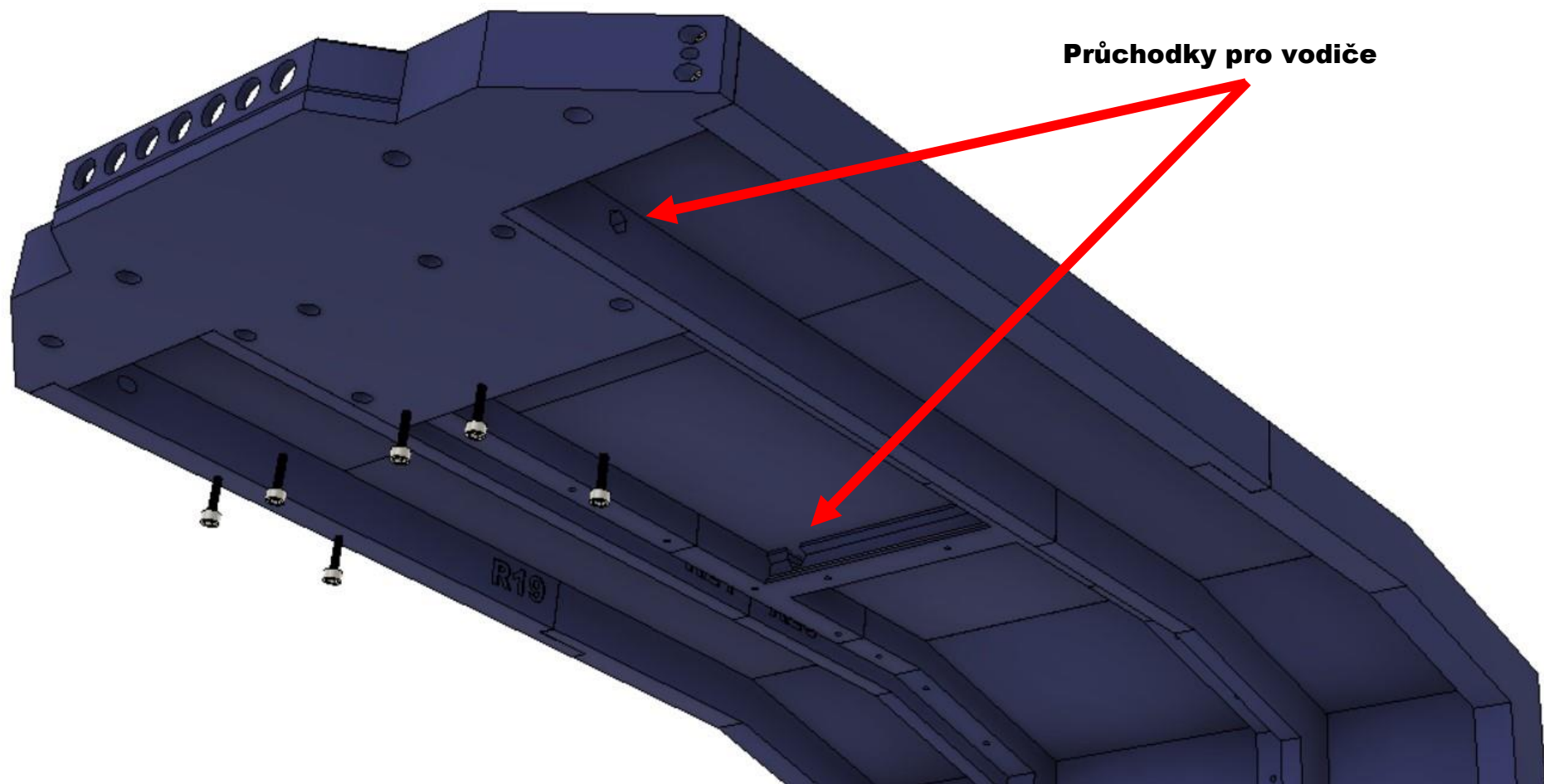
**Šroub 4x M2x10mm**

**Vodiče od LED protáhnout**

**tudy**



**Šroub 6x M2x10mm**



**Průchodky pro vodiče**





# Reinforcements

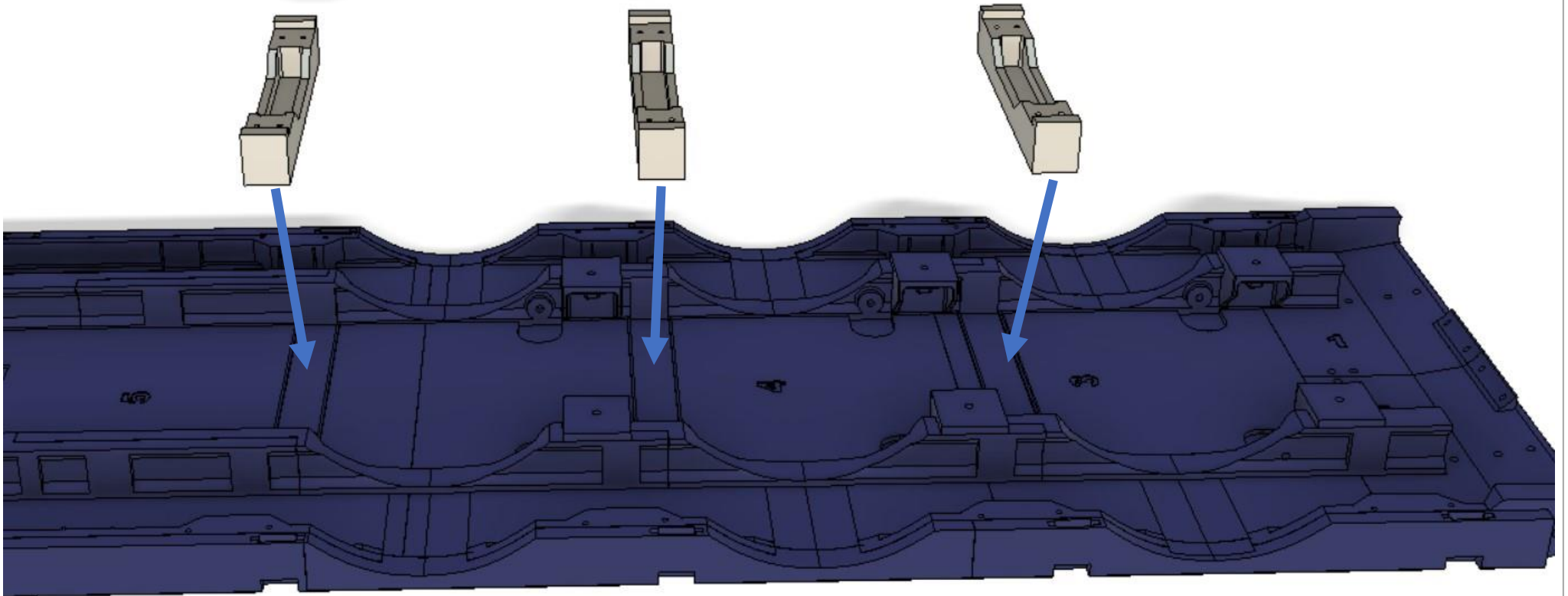
**1\_16x**



**Díl 1 rozmístěte přibližně podle obrázku**

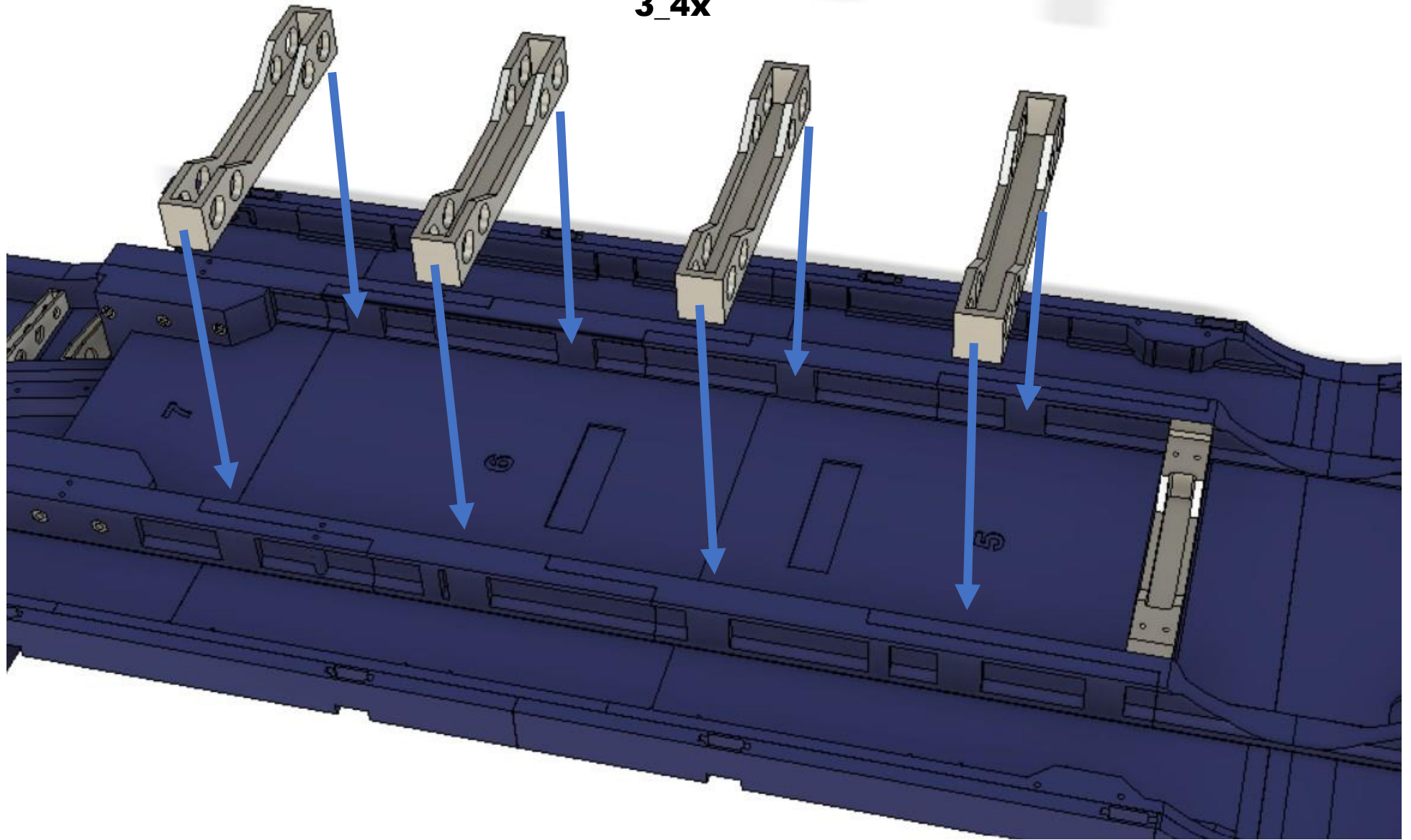


2\_3x



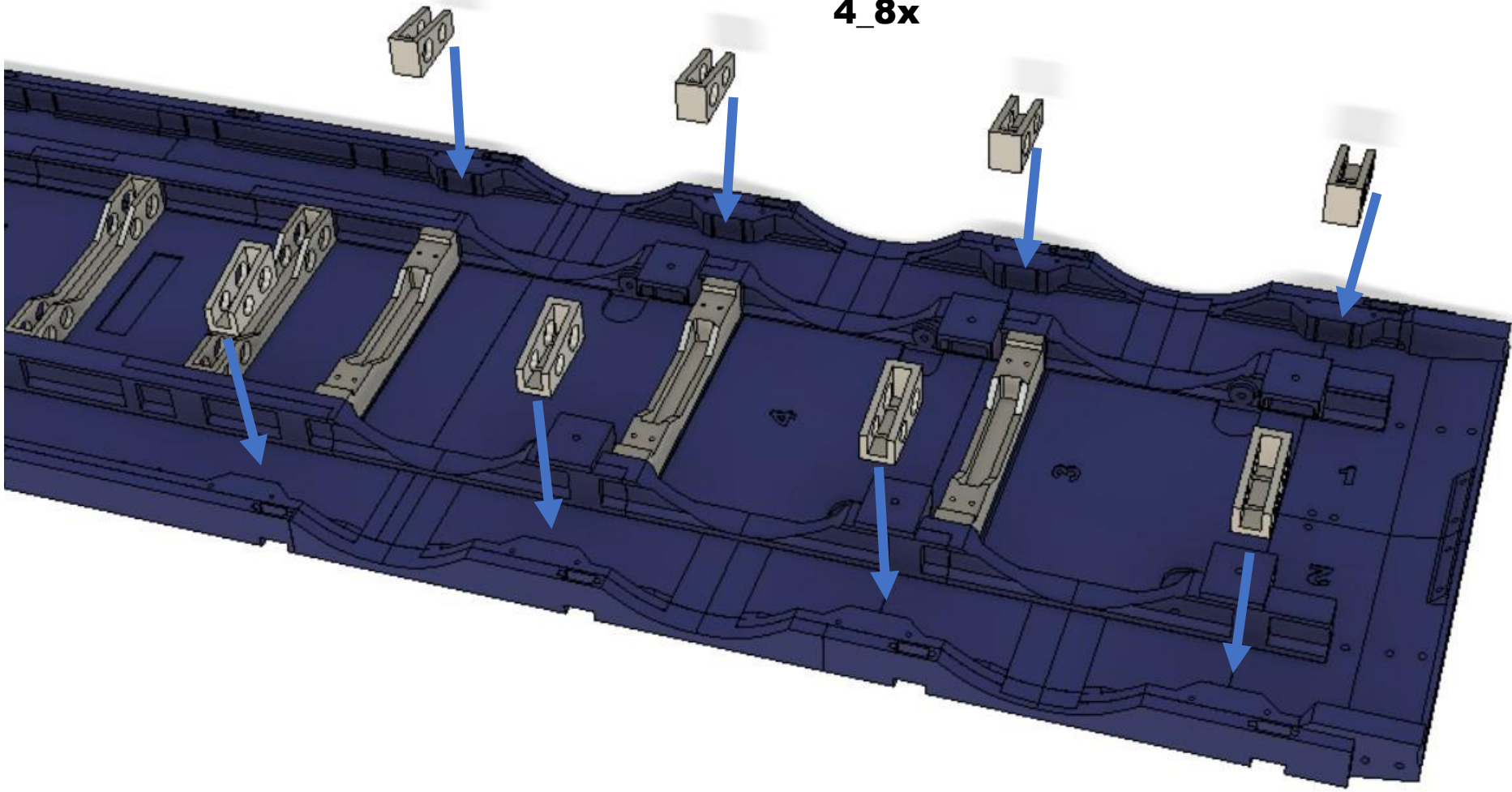


3\_4x

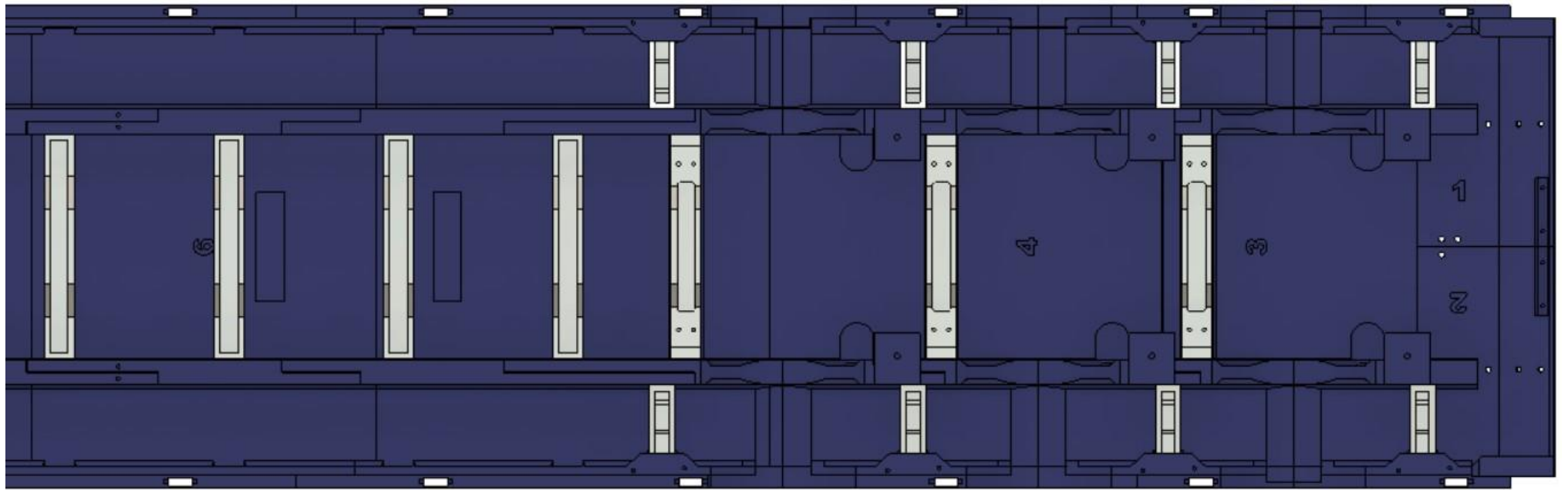




**4\_8x**

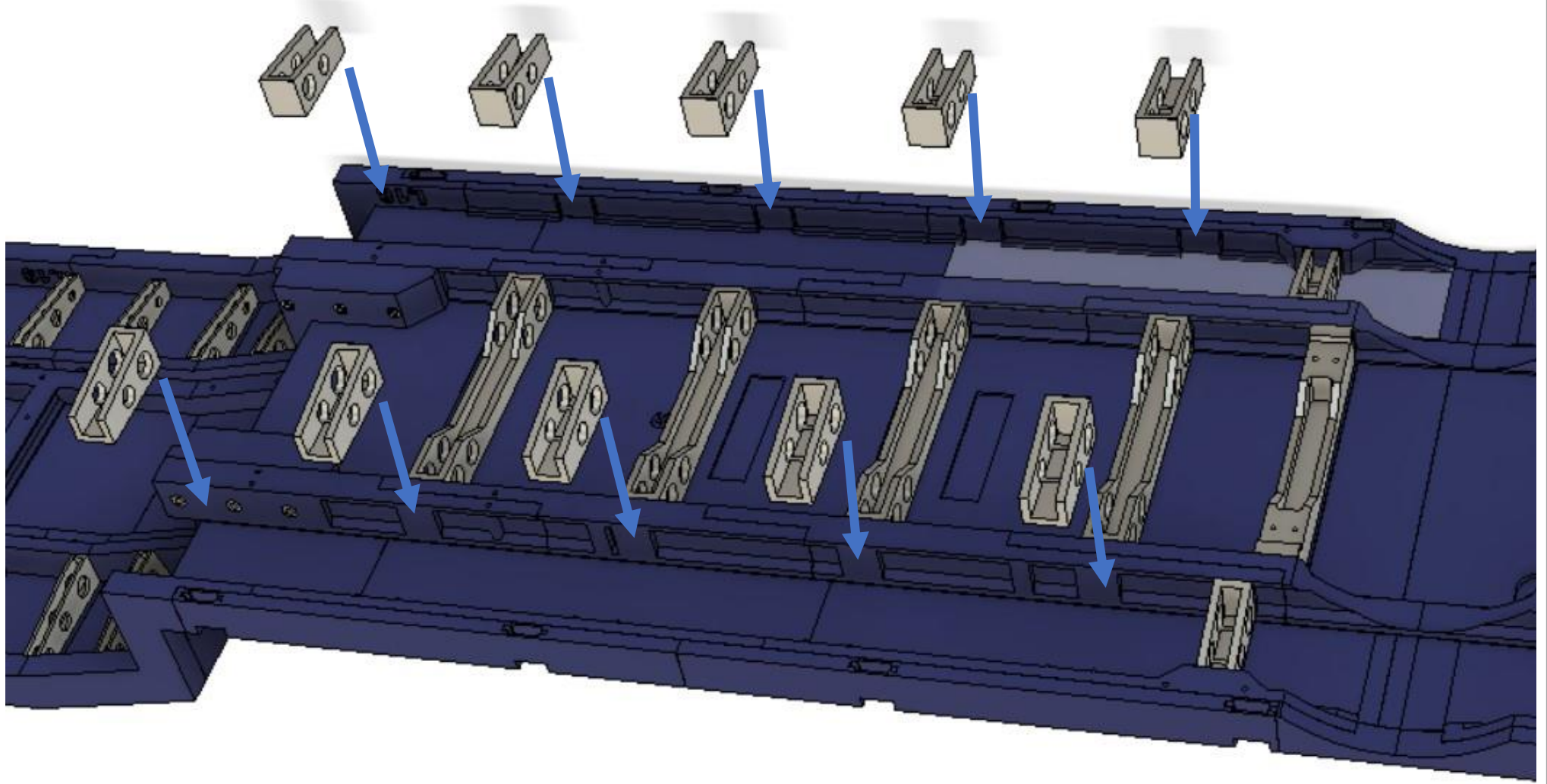




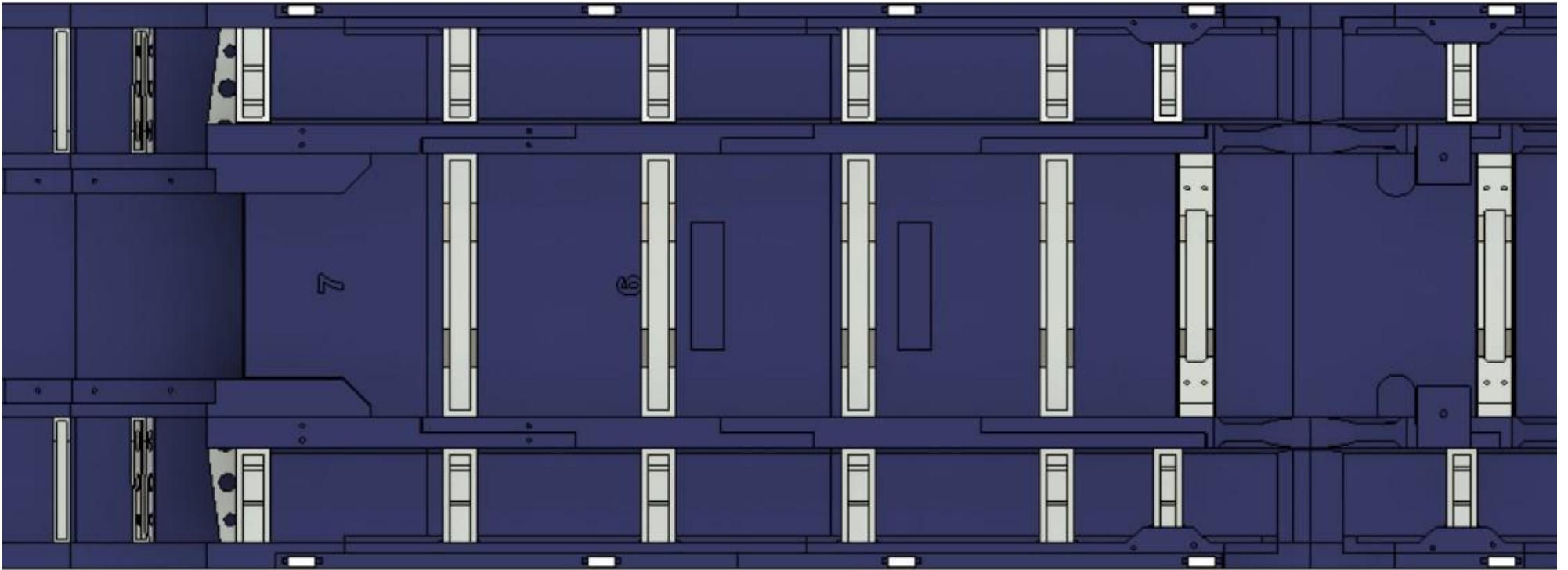




**5\_10x**



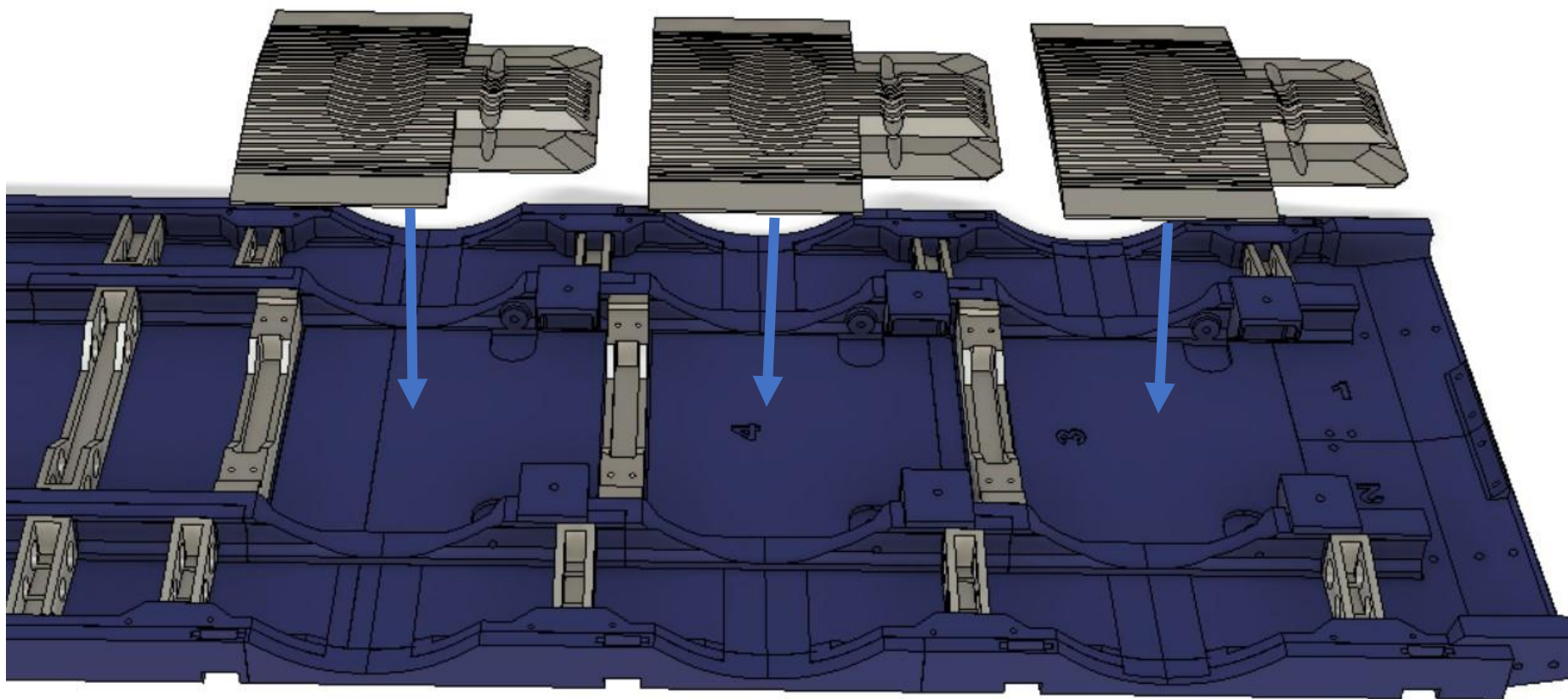


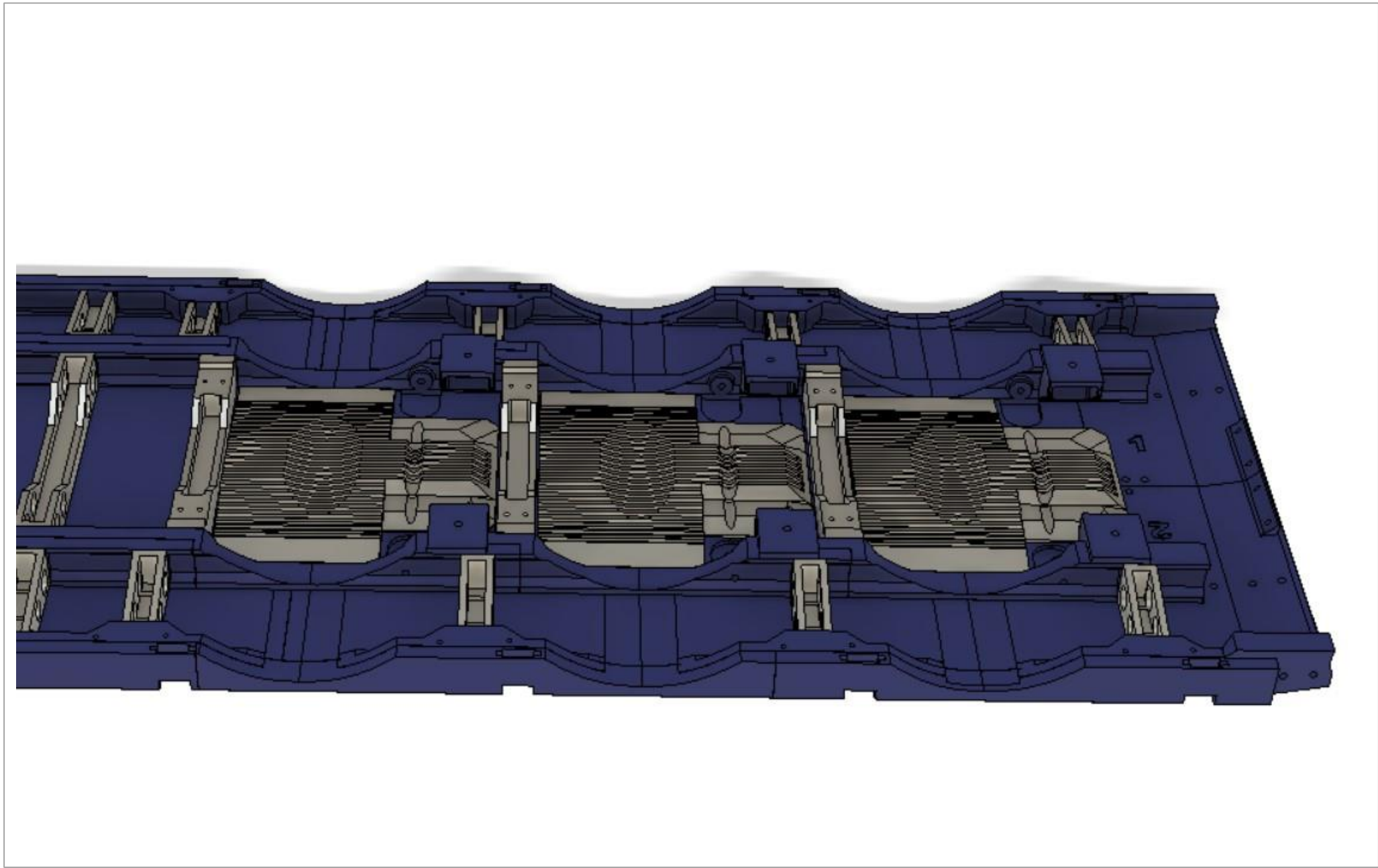




Tento krok je volitelný ale **důrazně** ho doporučuji pro ty, kteří chtějí vozit třeba RC tanky v měřítku 1:10 od L. Horta. Zvýší se pevnost návěsu a tím také nosnost. Není nutné pro RC auta 1:10 a menší.

6\_3x





# Axles



**1\_6x\_Flex**



**Pružina 6x**

**Průměr: max 9,5mm**

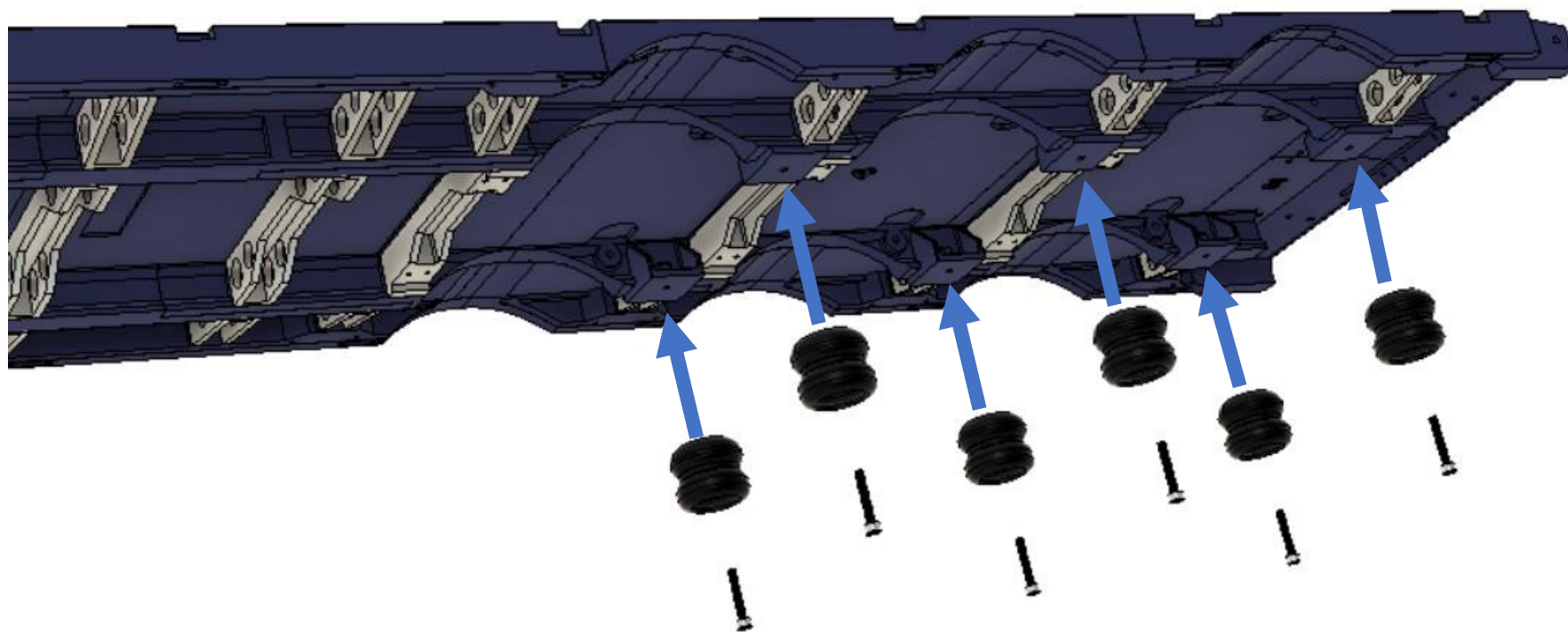
**Délka: cca 20mm**

**Průměr drátu: cca 0,7-1mm**



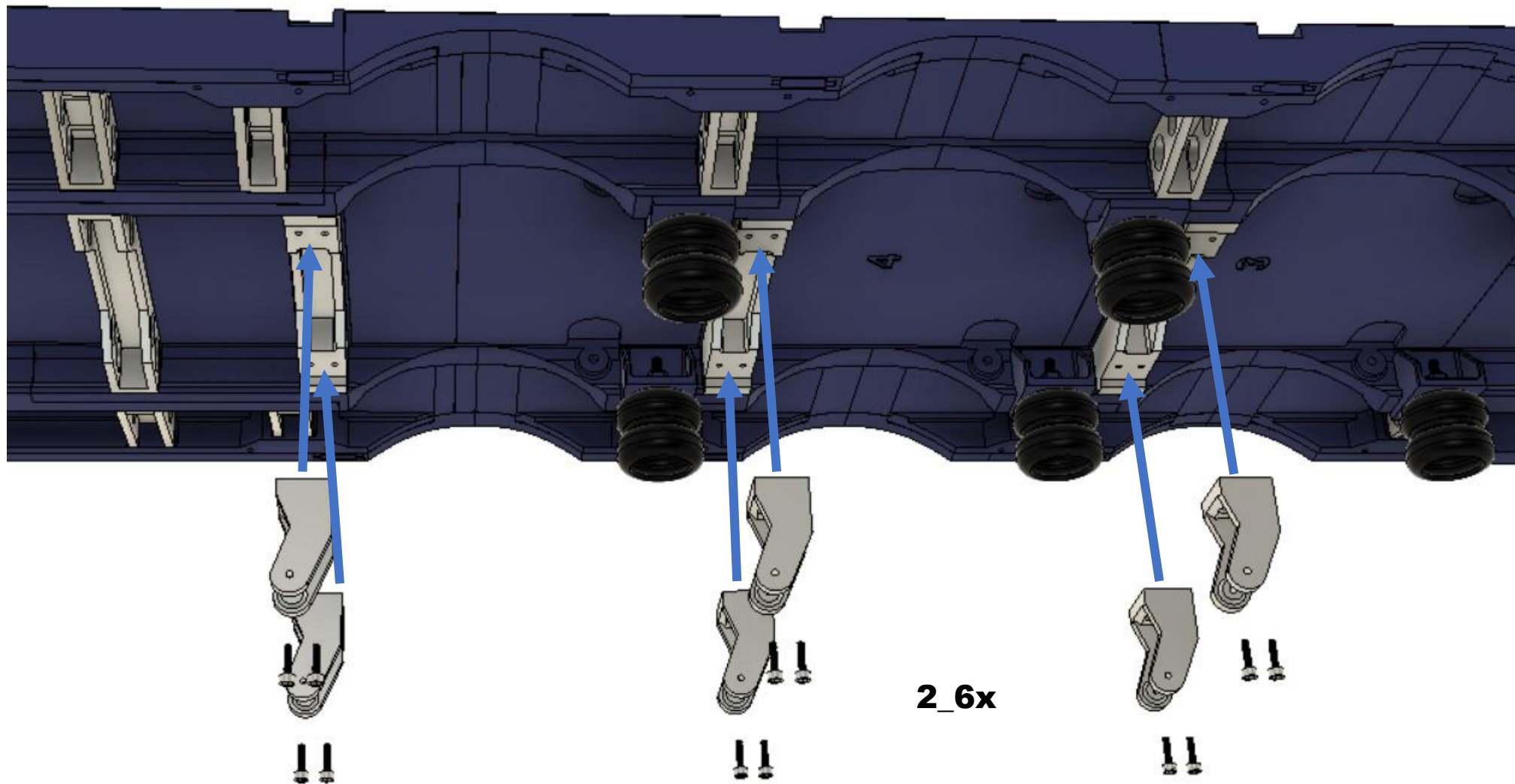
**Pružinu zatlačte  
na doraz**

**Šroub 6x M3x10mm**



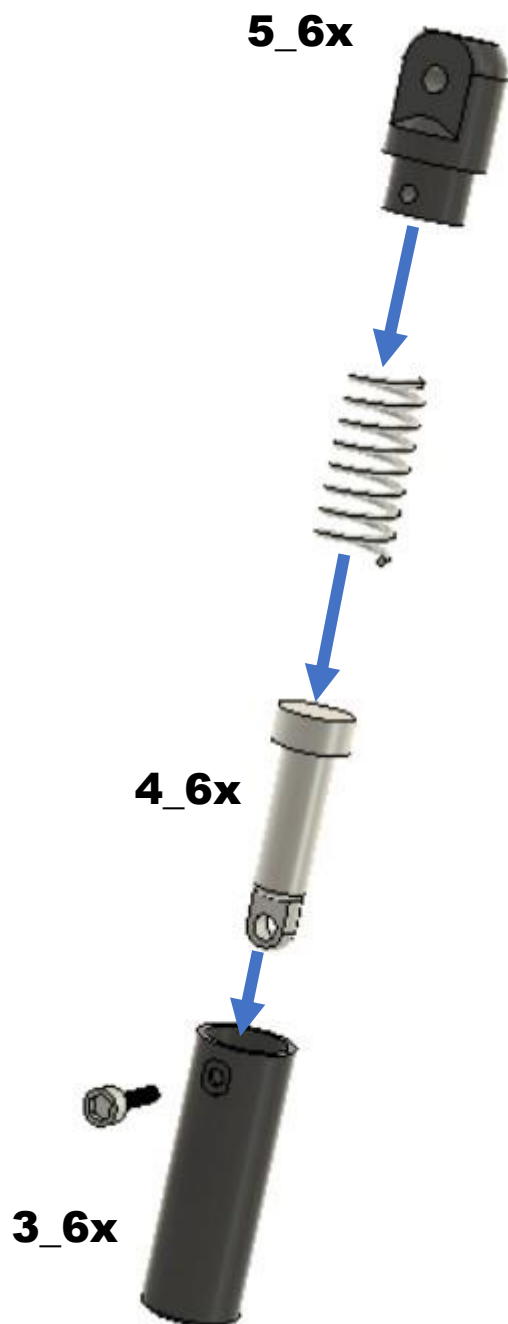


**Šroub 12x M2x8mm**





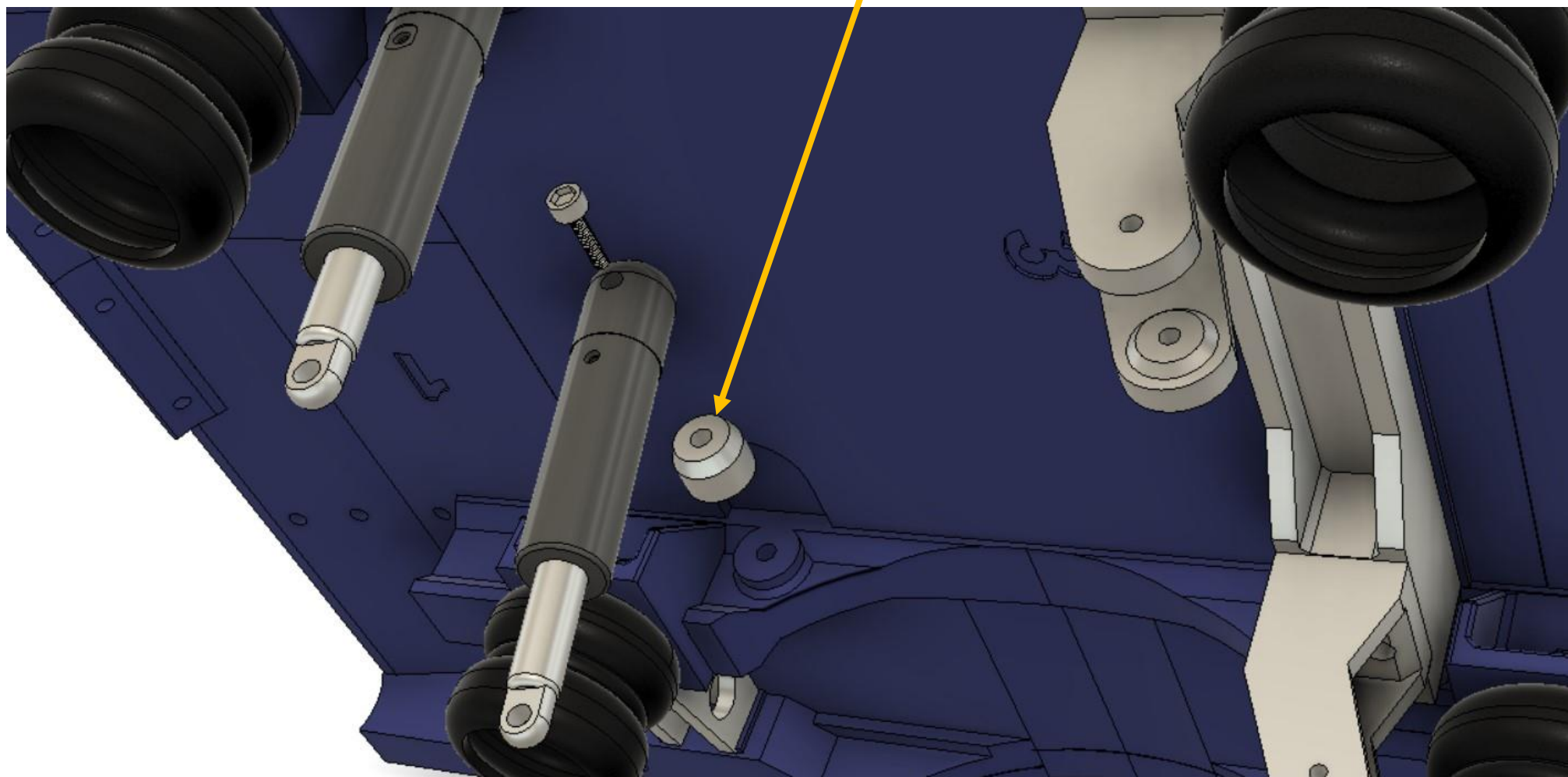
**Šroub 6x M2x12mm**

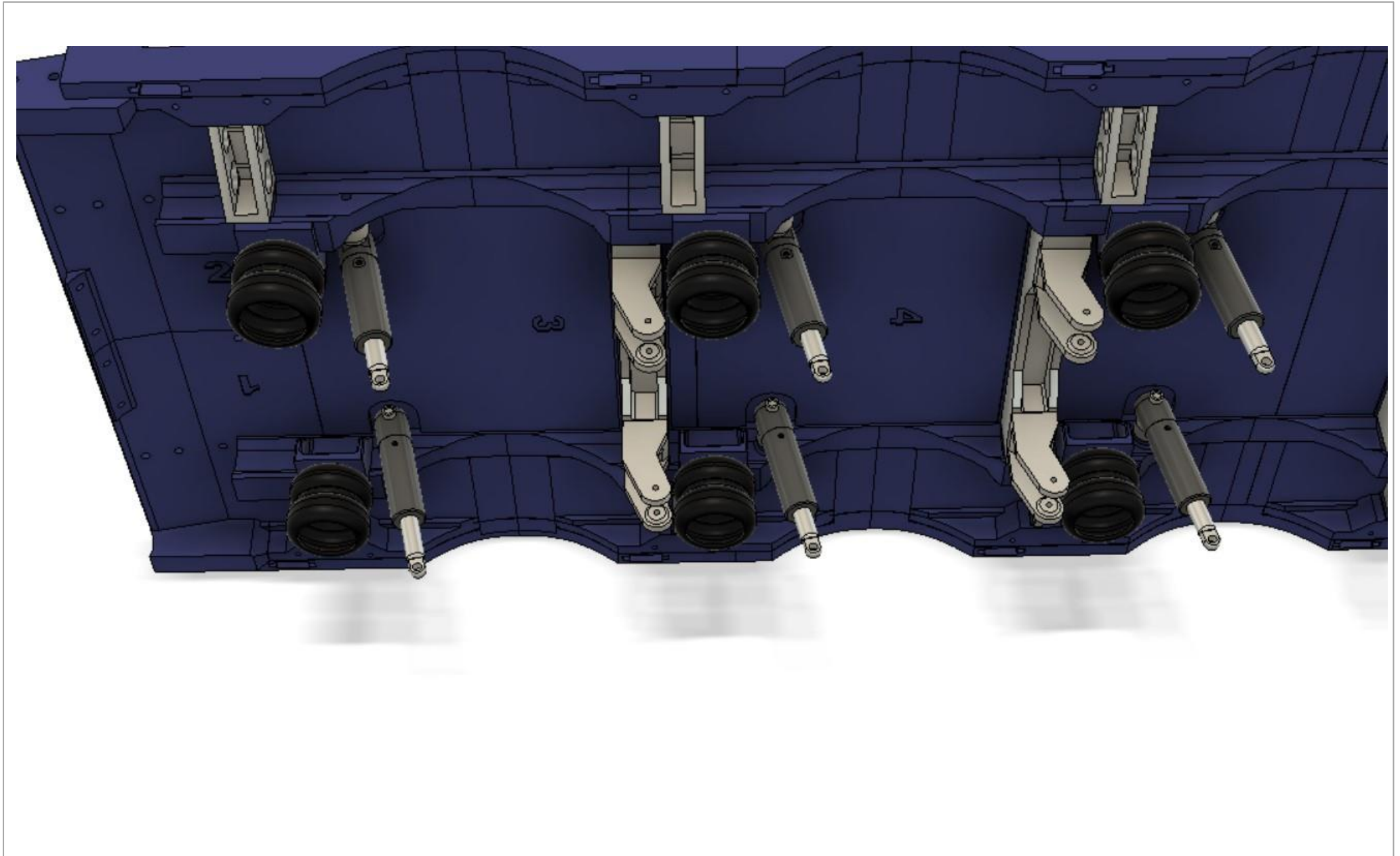


**Pružina 6x**  
**Průměr: max 9mm**  
**Délka: max 35mm**  
**Průměr drátu: cca 0,7-1mm**

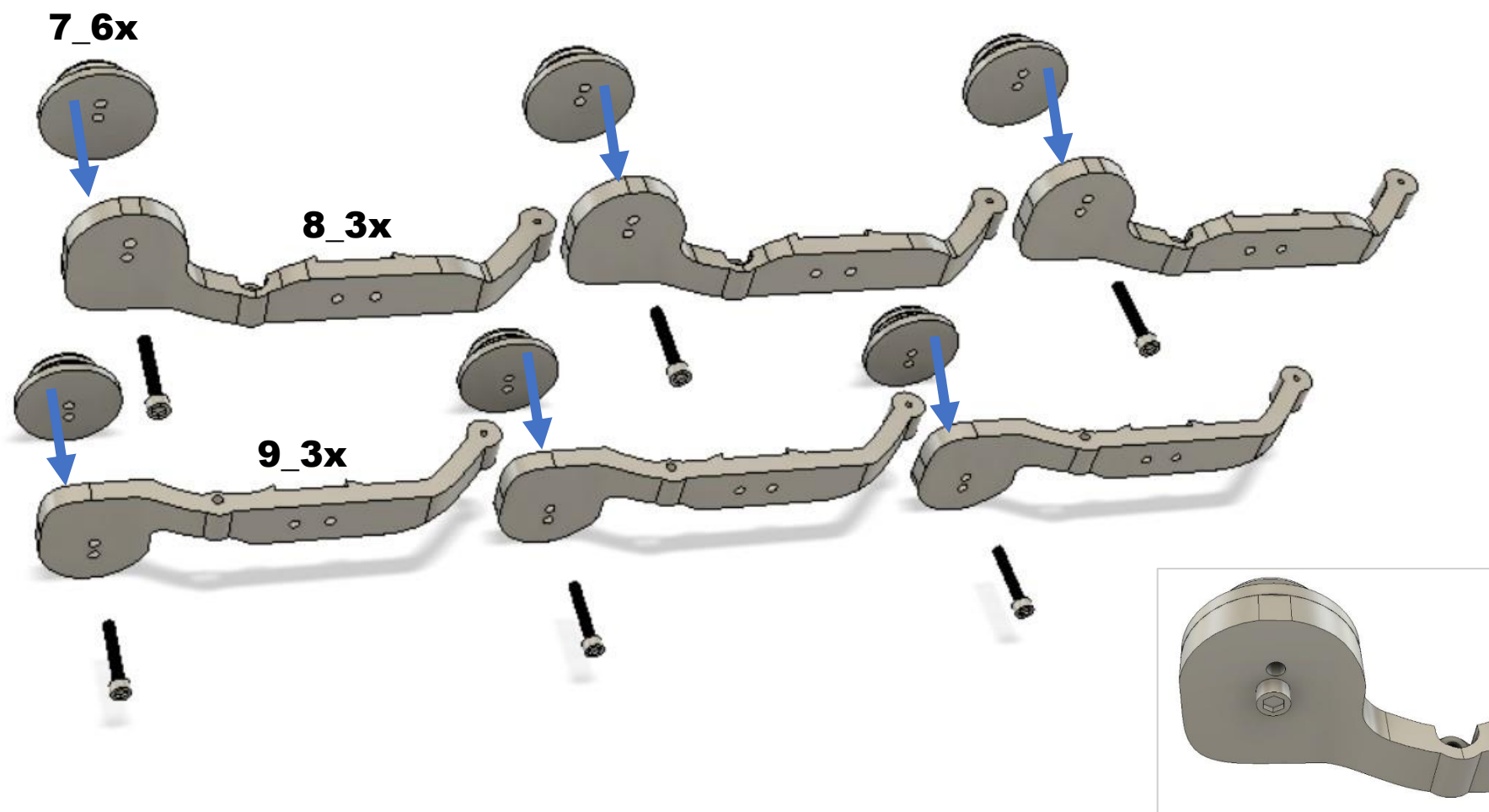
**Šroub 6x M3x30mm**

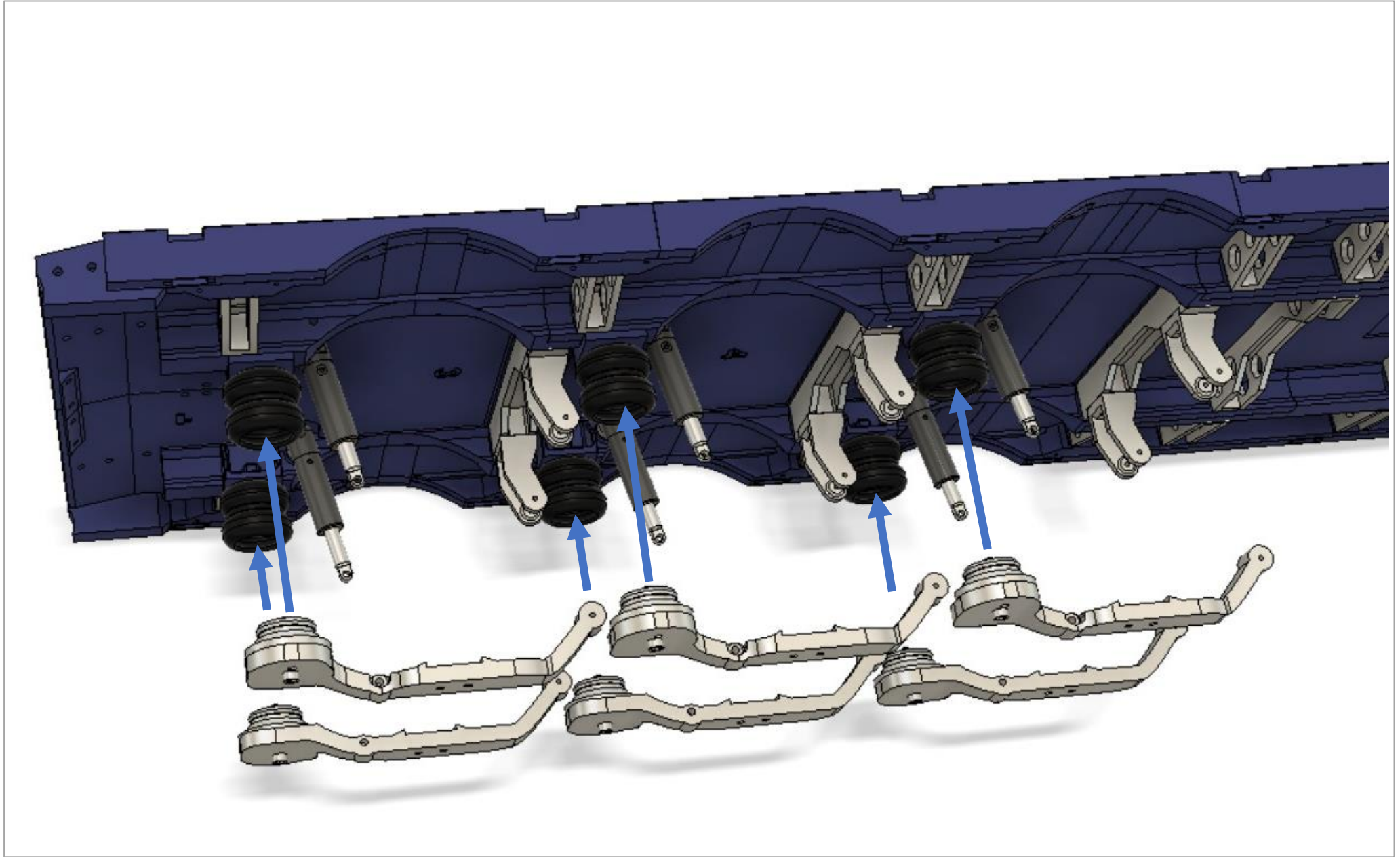
**6\_6x**





**Šroub 6x M3x12mm**

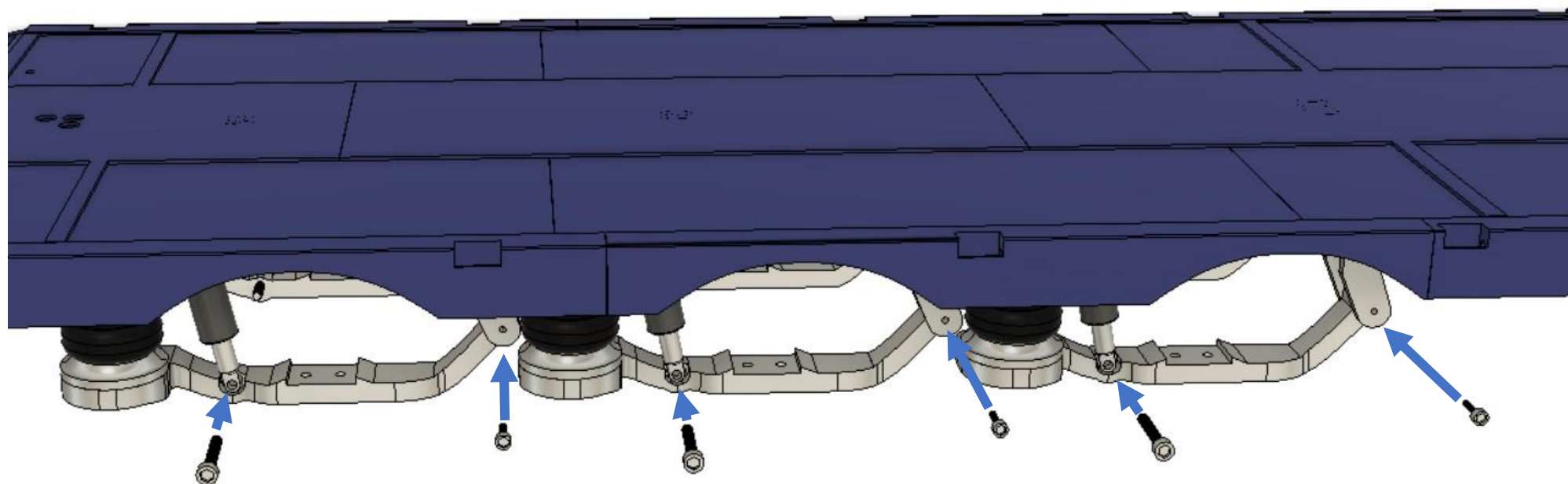






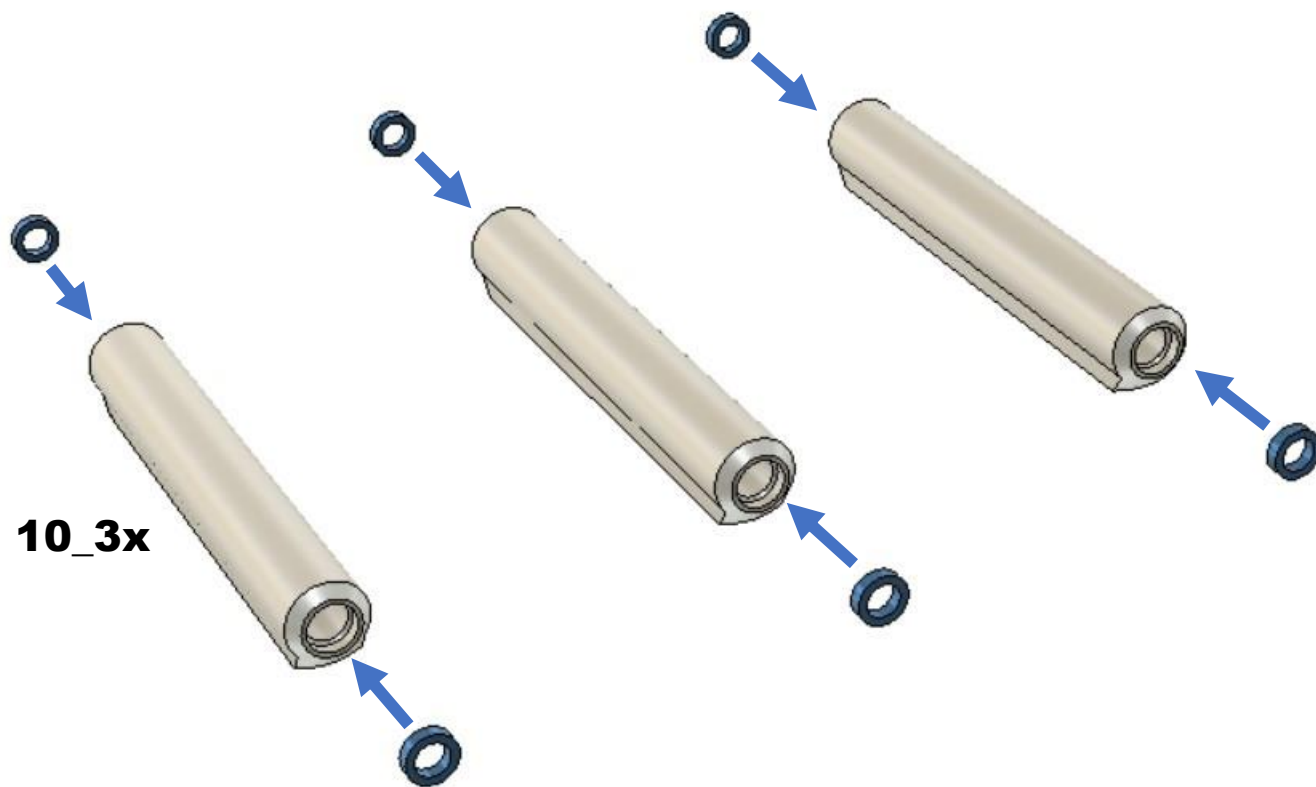
**Šroub 6x M3x10mm**

**Šroub 6x M2x20mm**



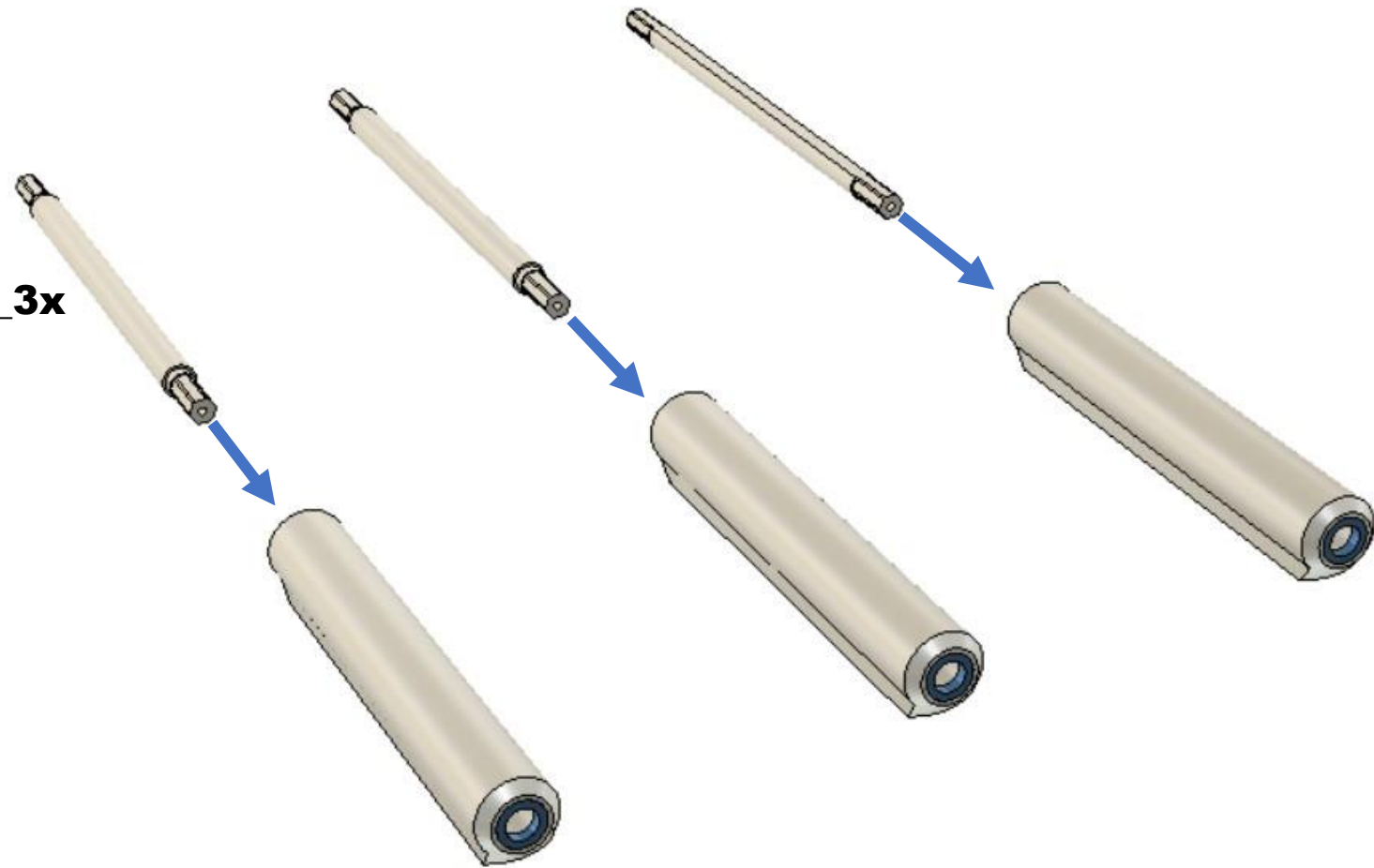


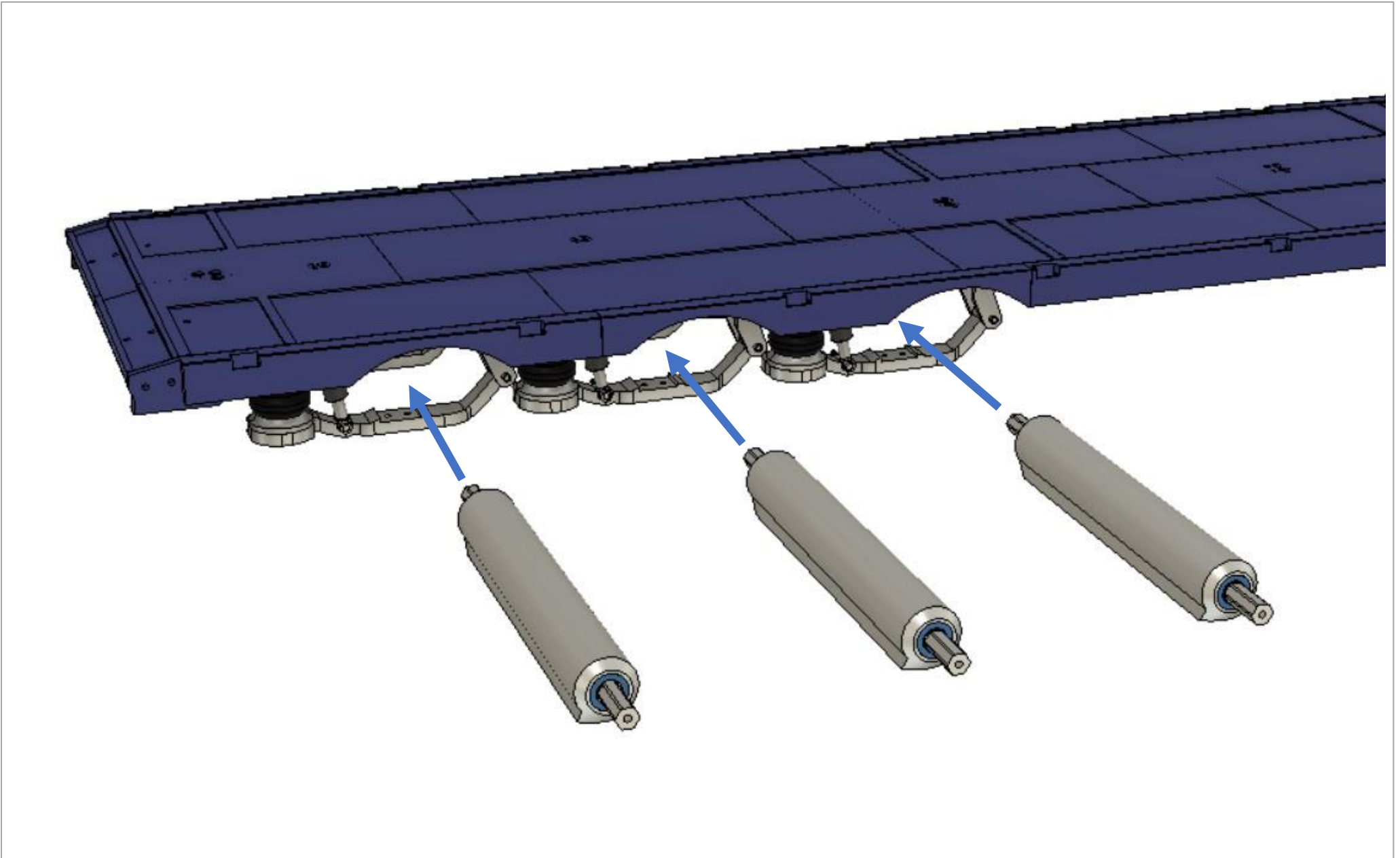
**Ložiska 6x 10x15x4**



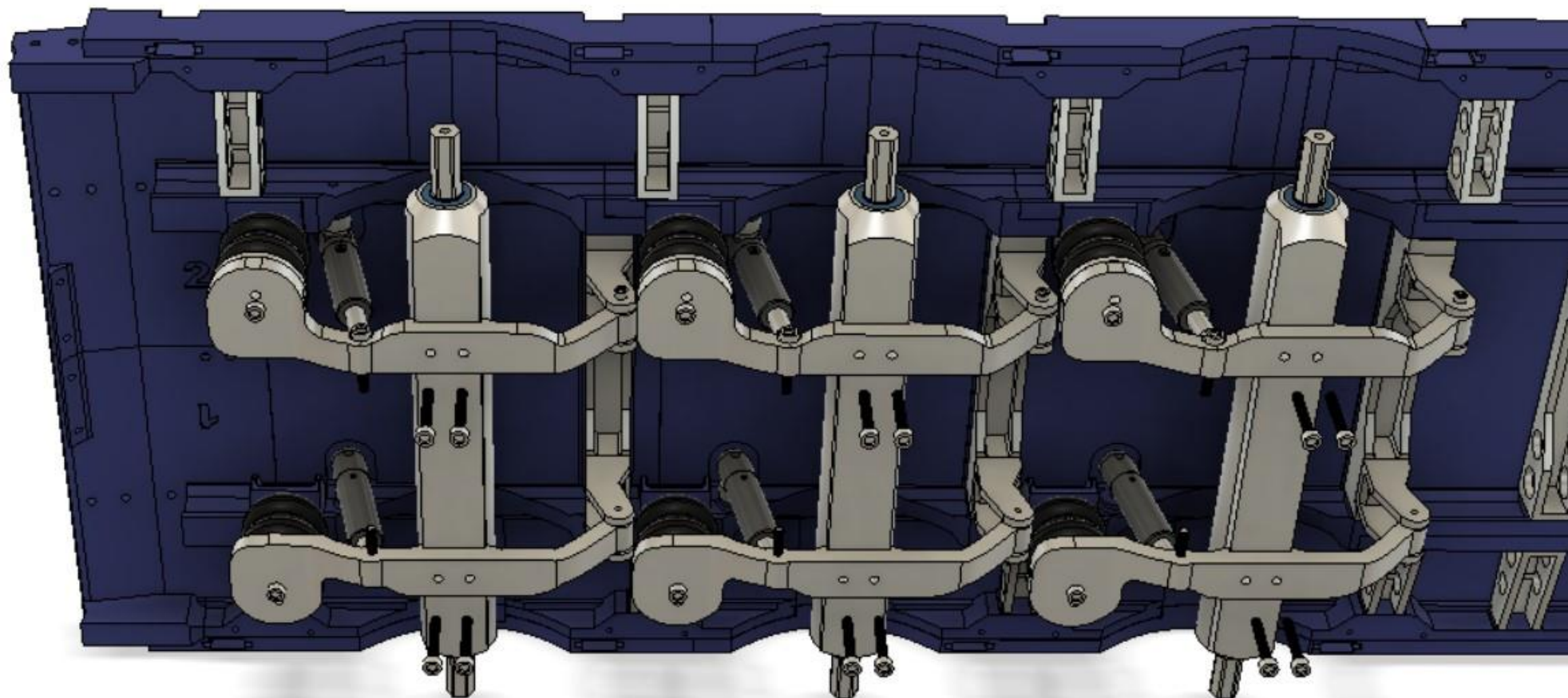
**10\_3x**

**11\_3x**



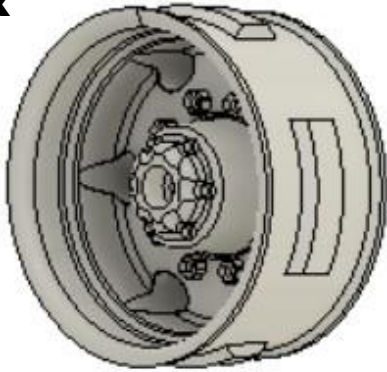


**Šroub 12x M3x10mm**



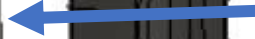
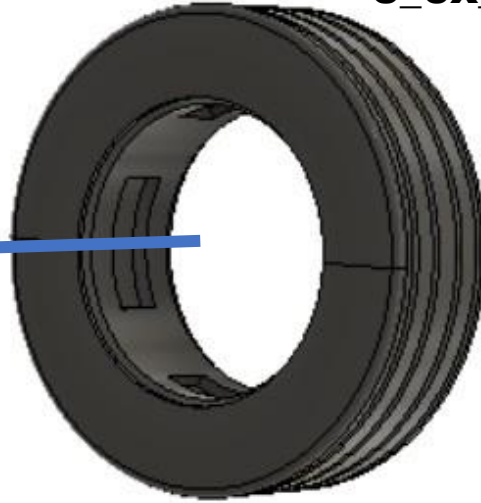
# Wheels

**1\_6x**

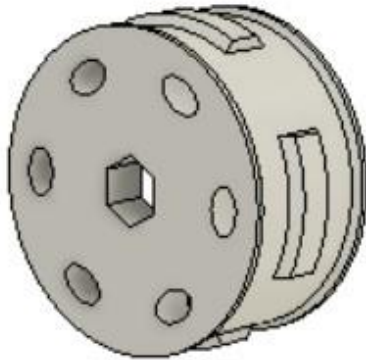


**v.1**

**3\_6x\_FLEX**

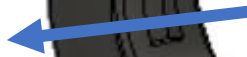
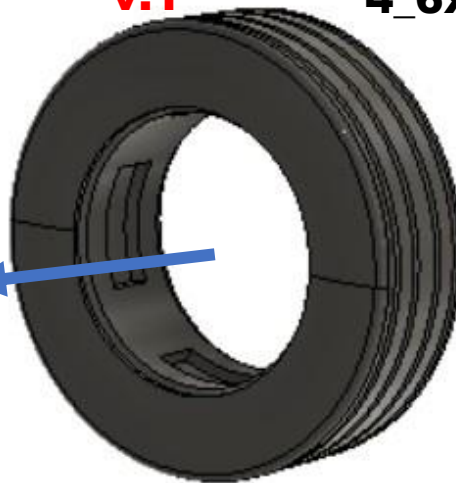


**2\_6x**



**v.1**

**4\_6x\_FLEX**



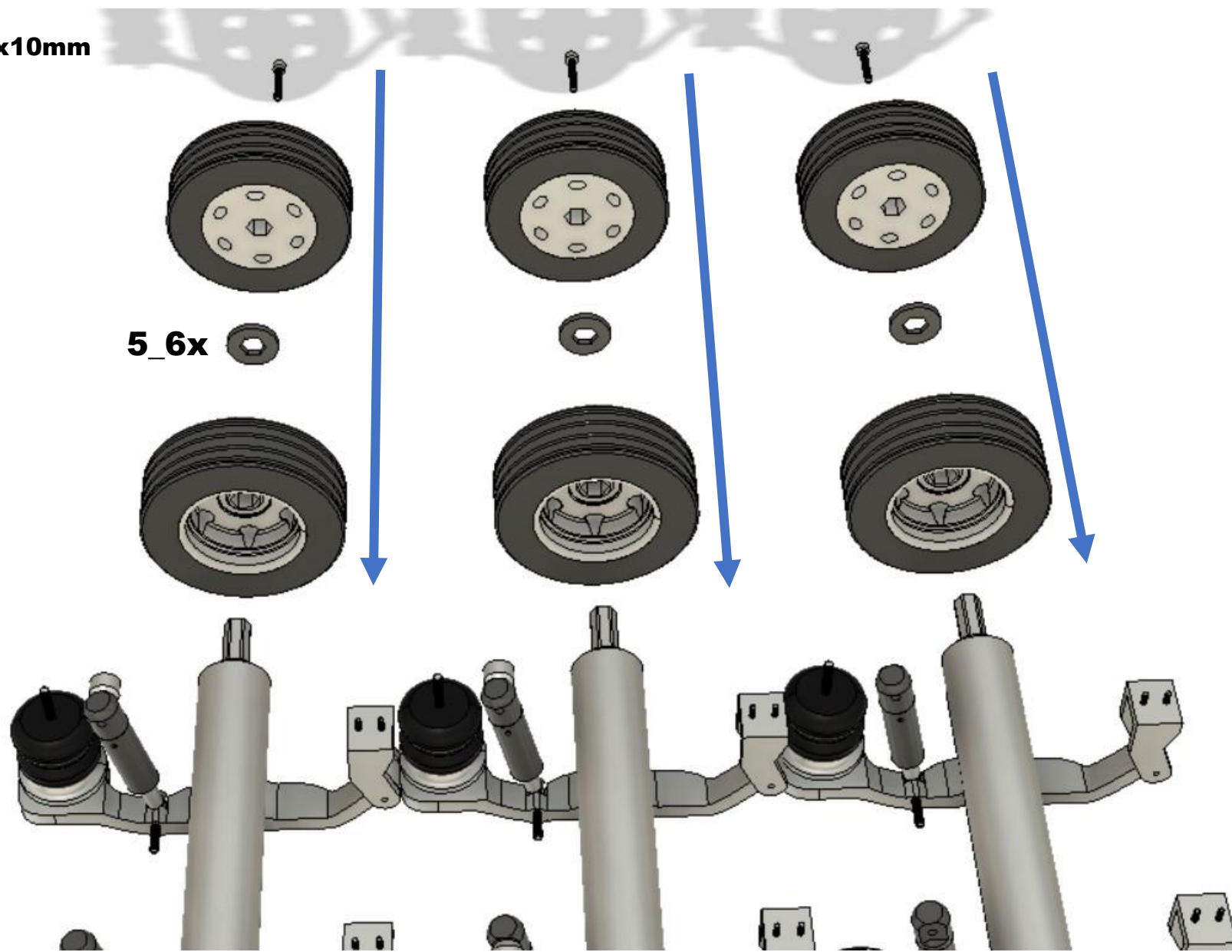
**v.2**



**v.3**



Šroub 12x M3x10mm

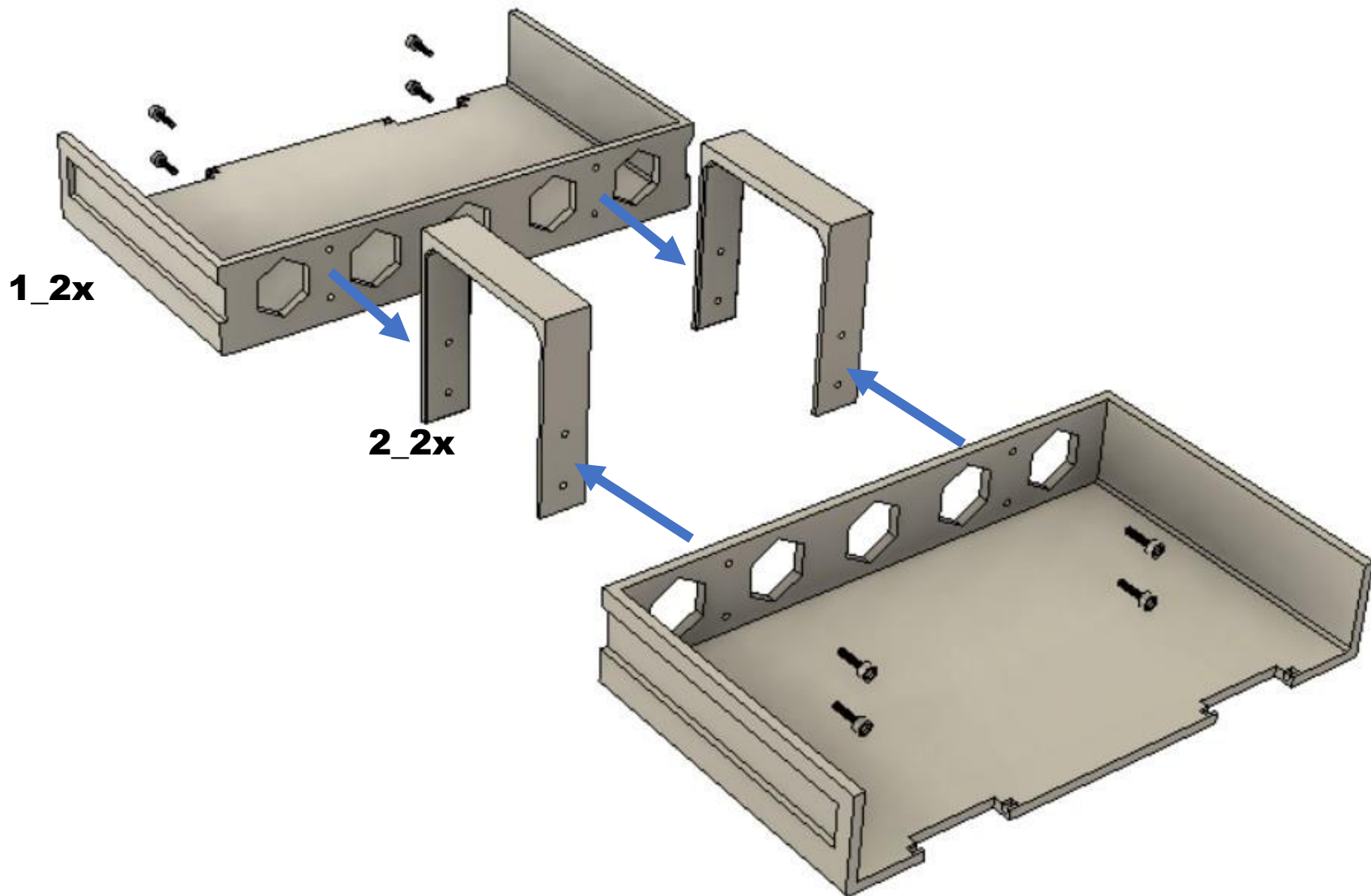




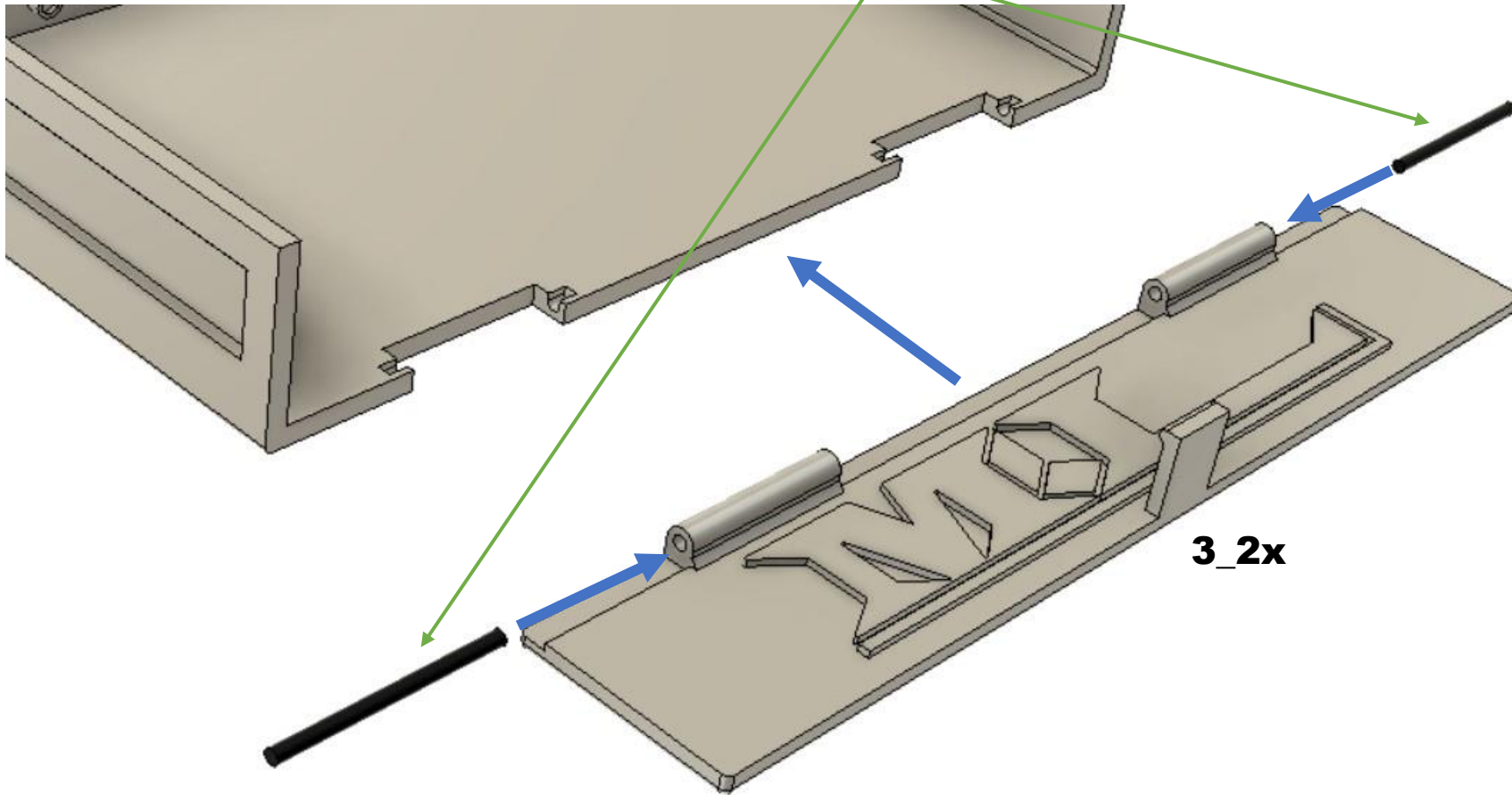


Šroub 8x M2x6mm

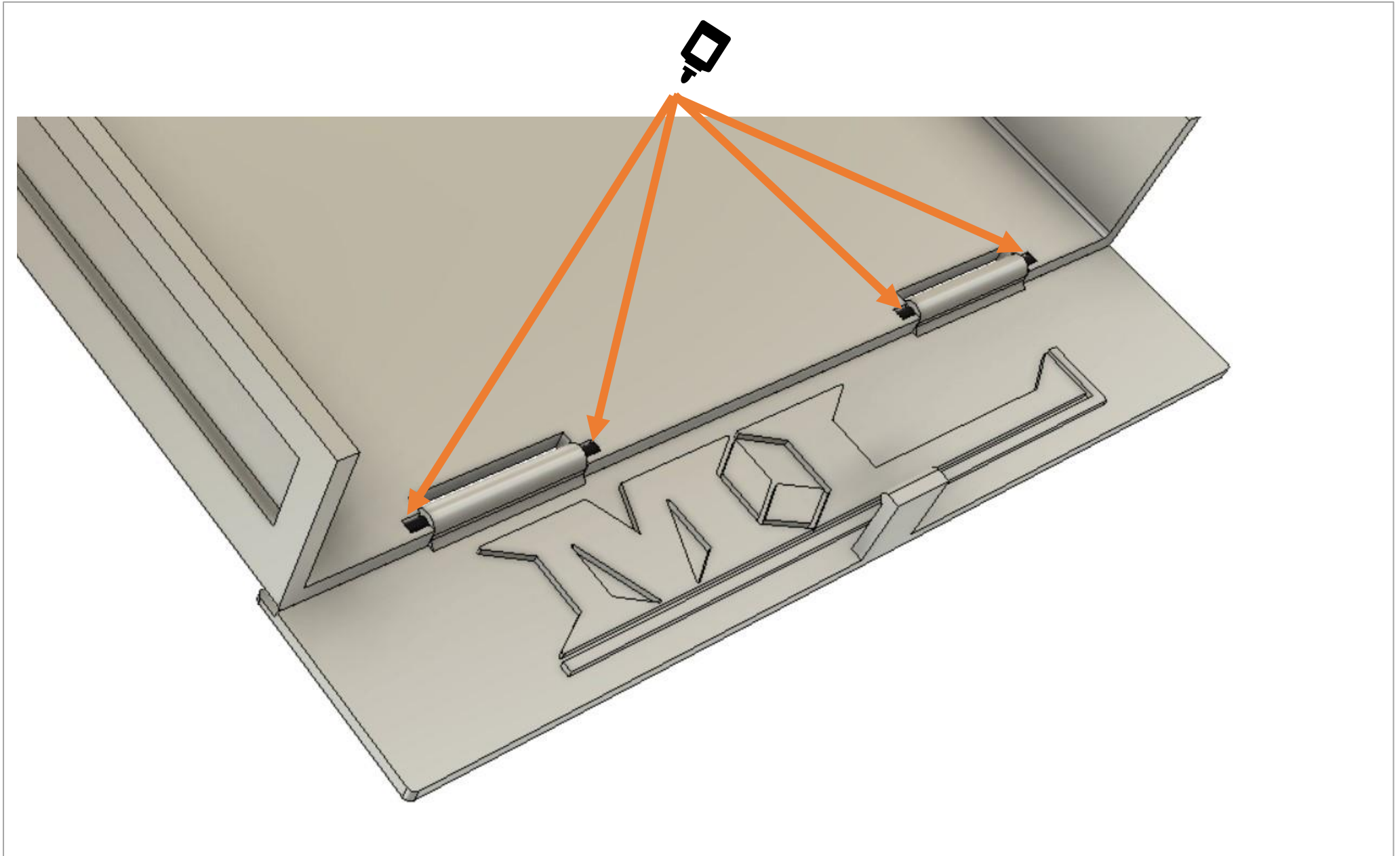
# Box



**Filament 1.75mm x 30mm**

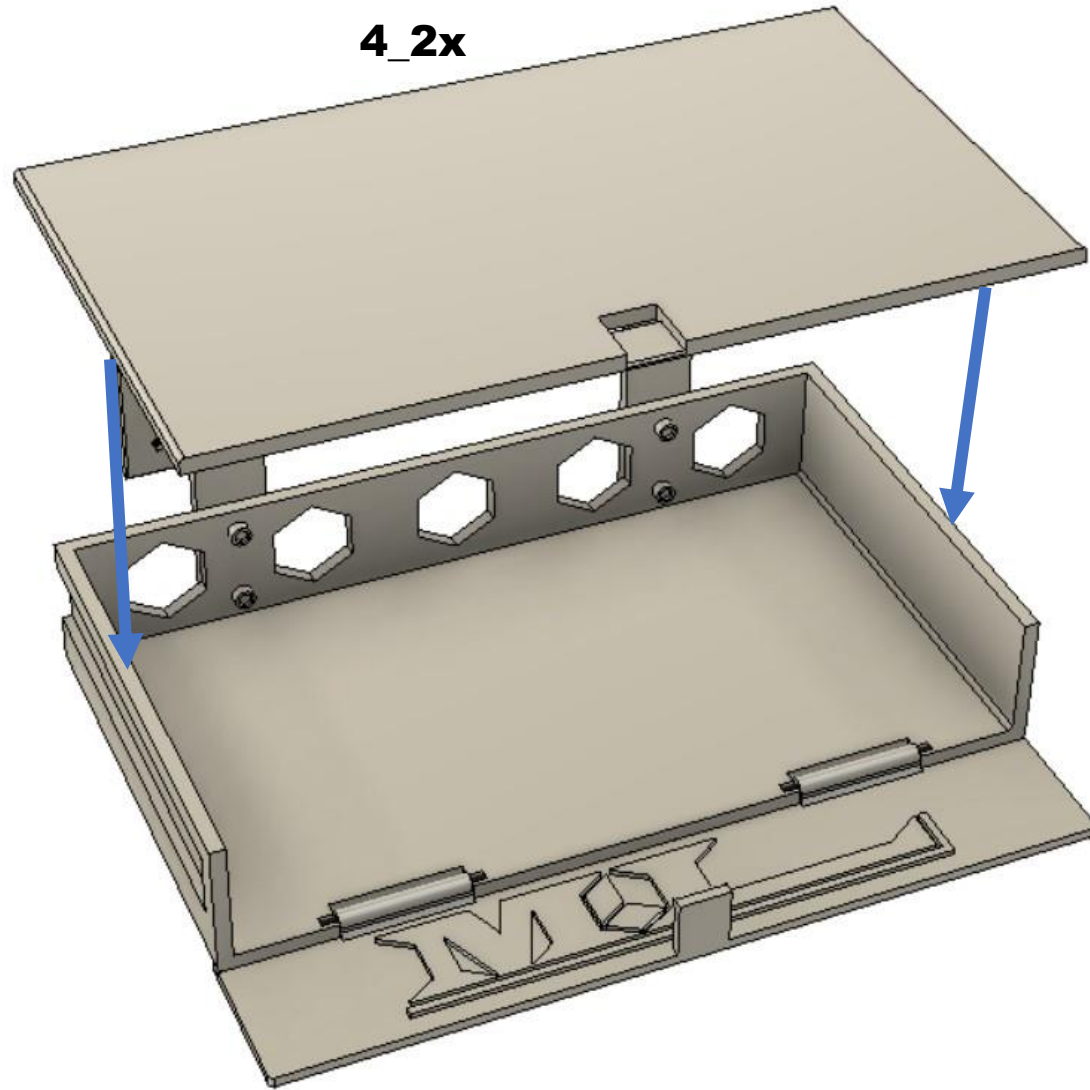


**3\_2x**

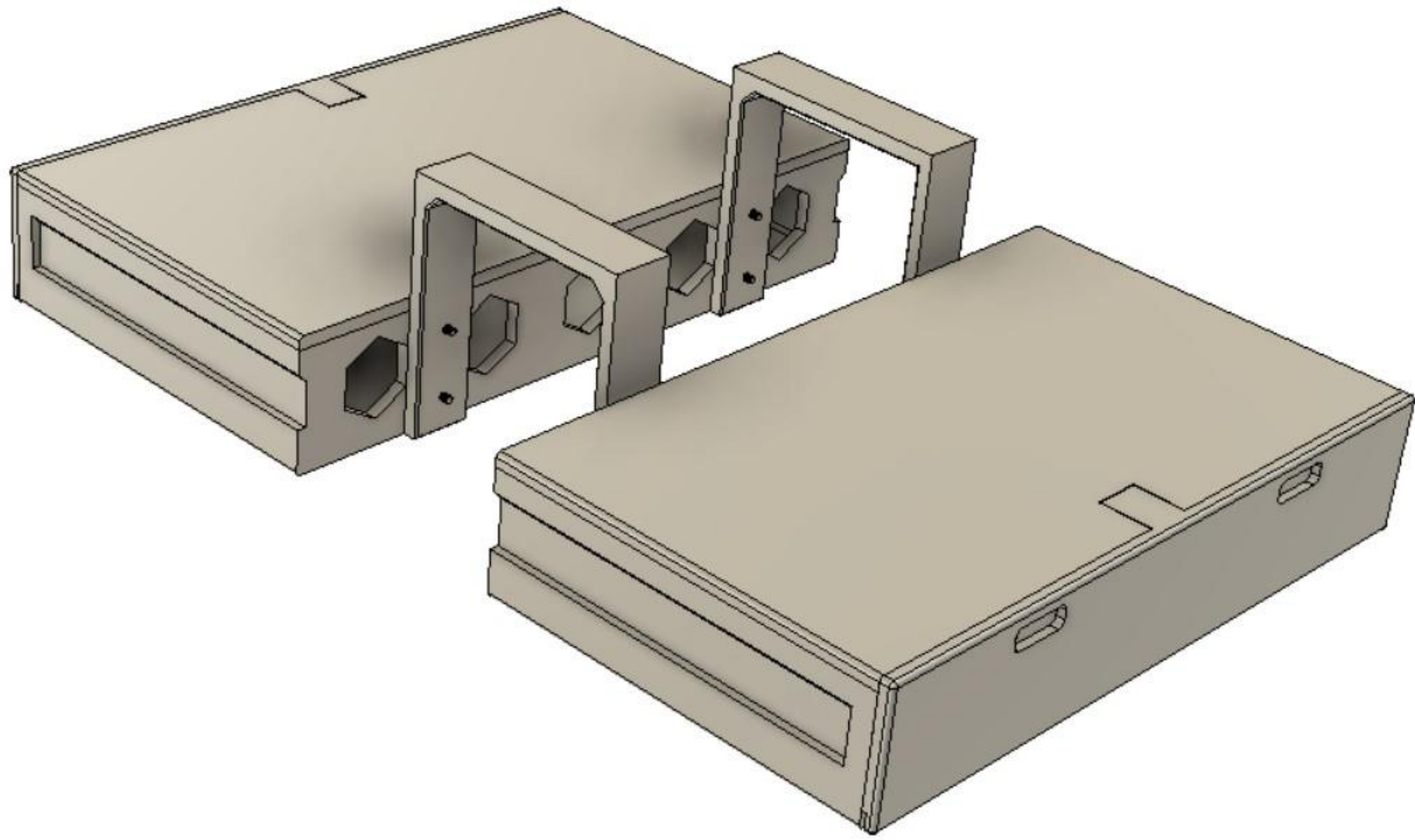




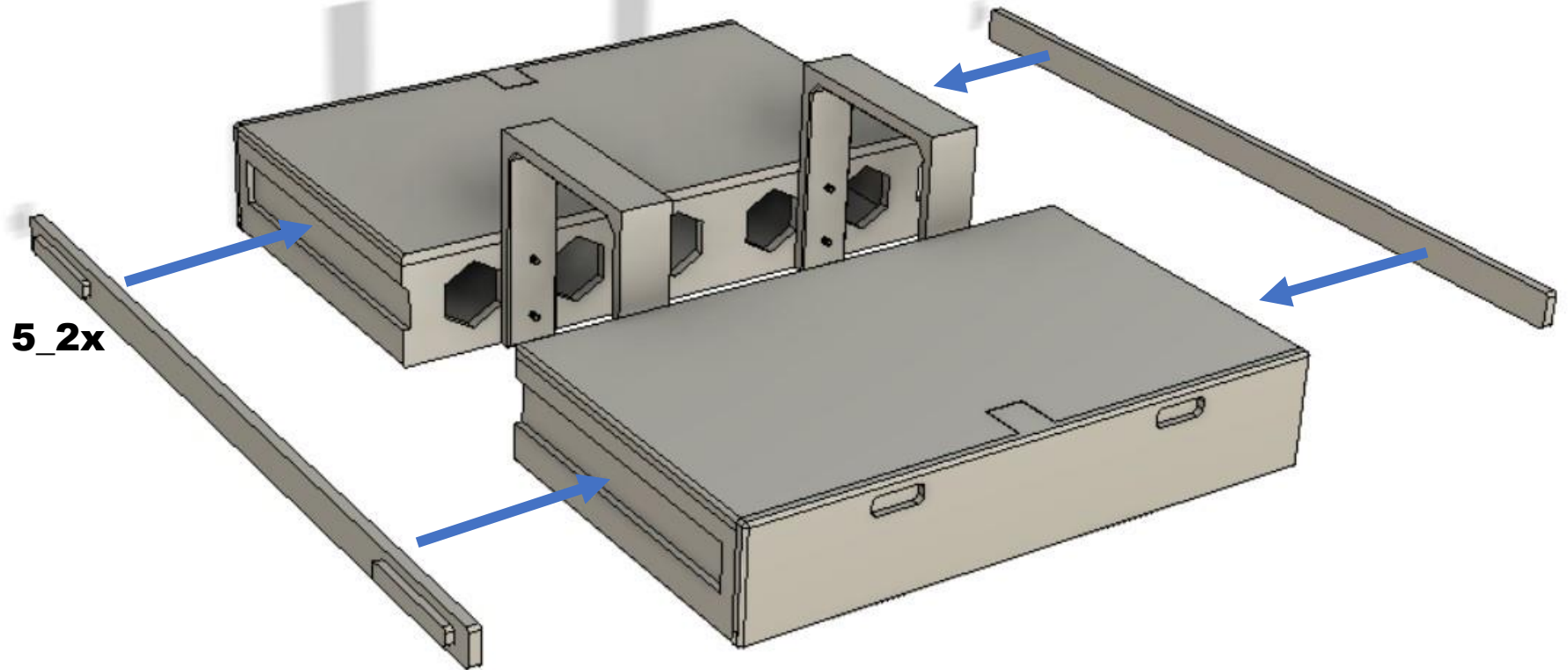
**4\_2x**





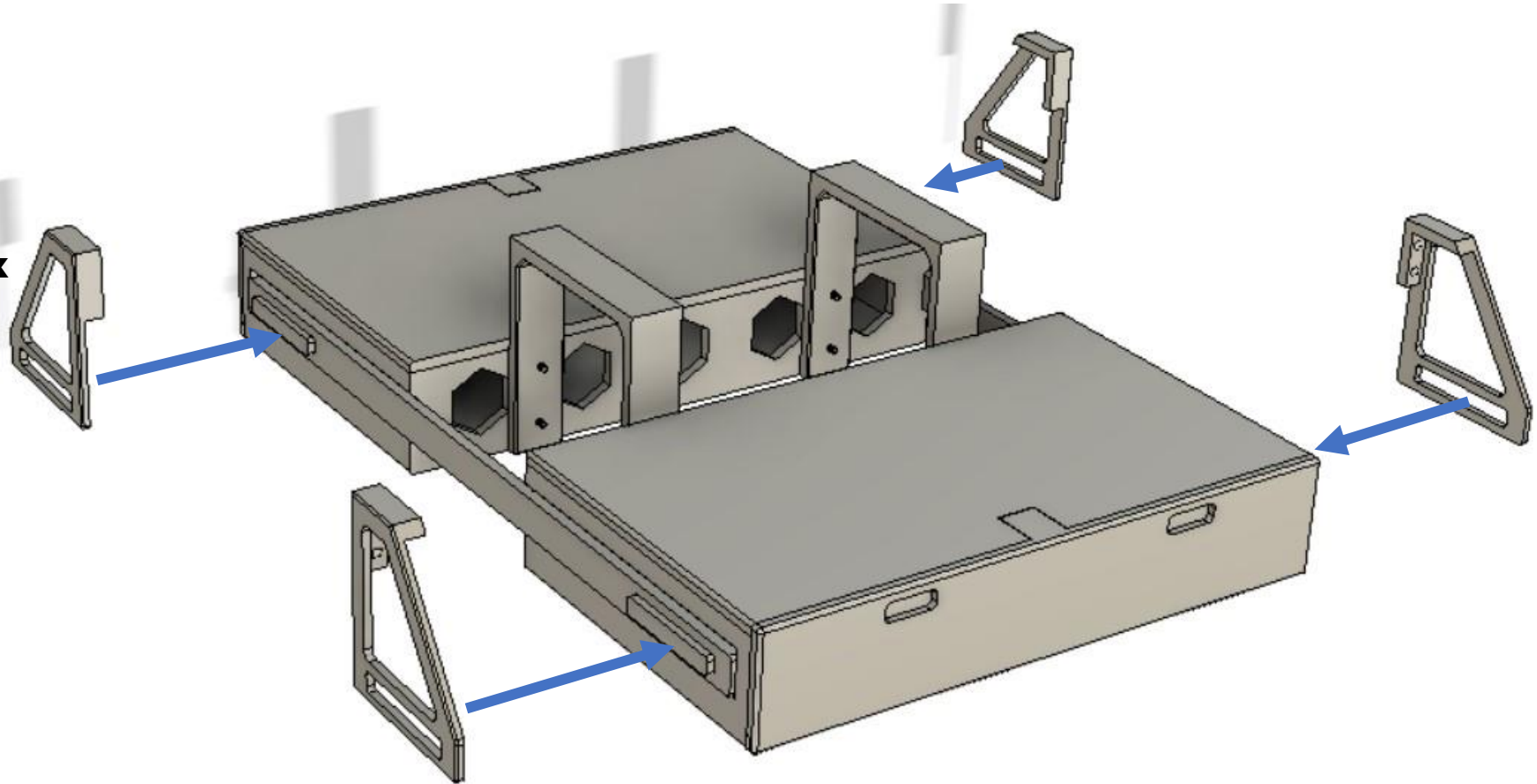


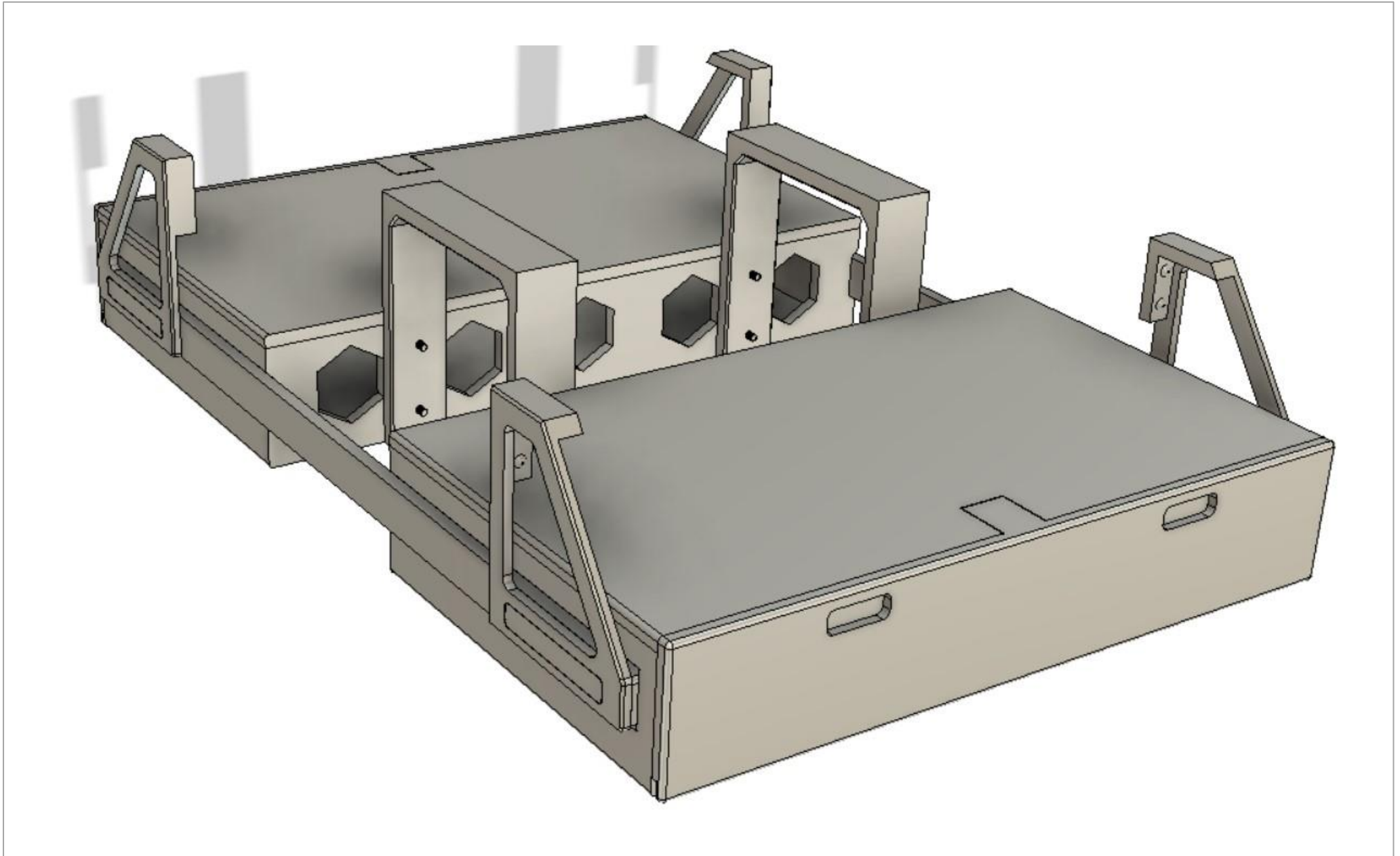


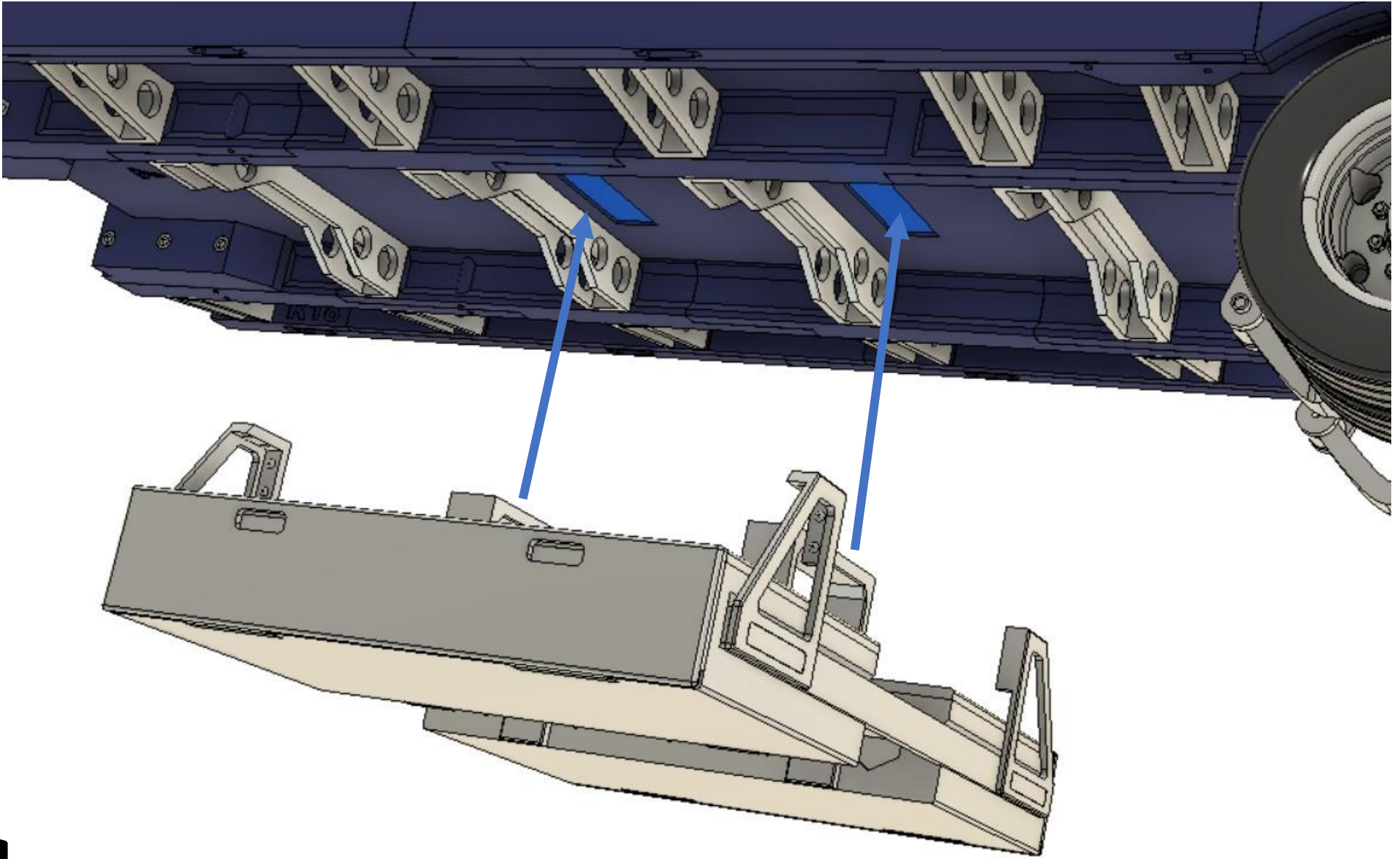




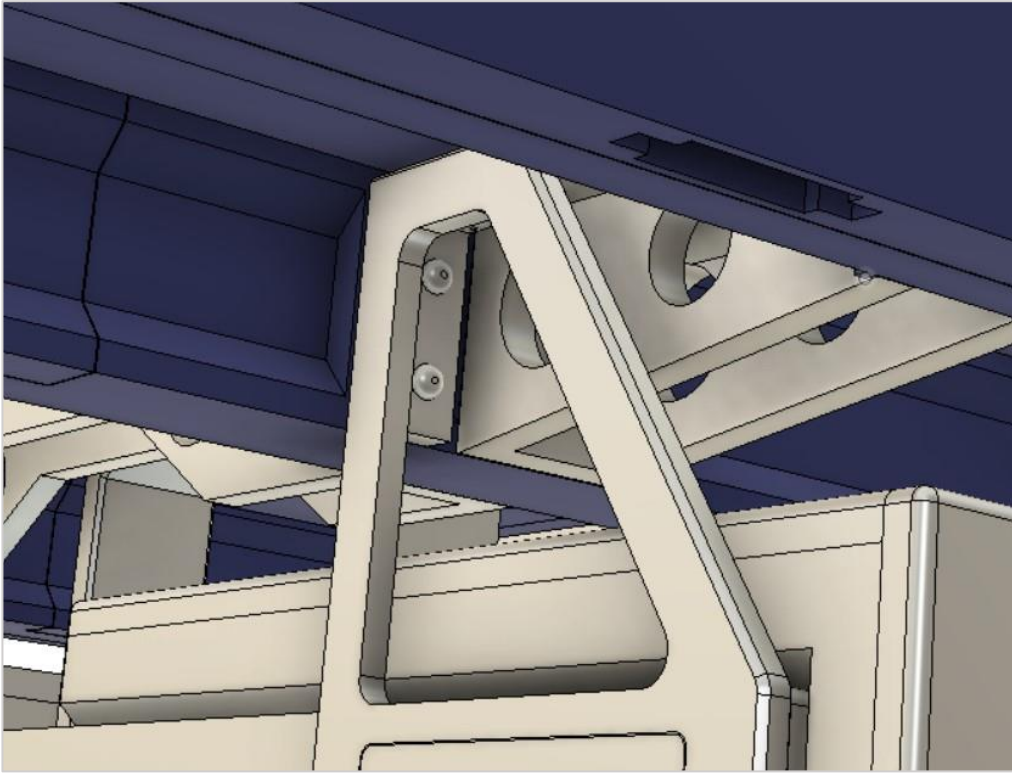
6\_4x

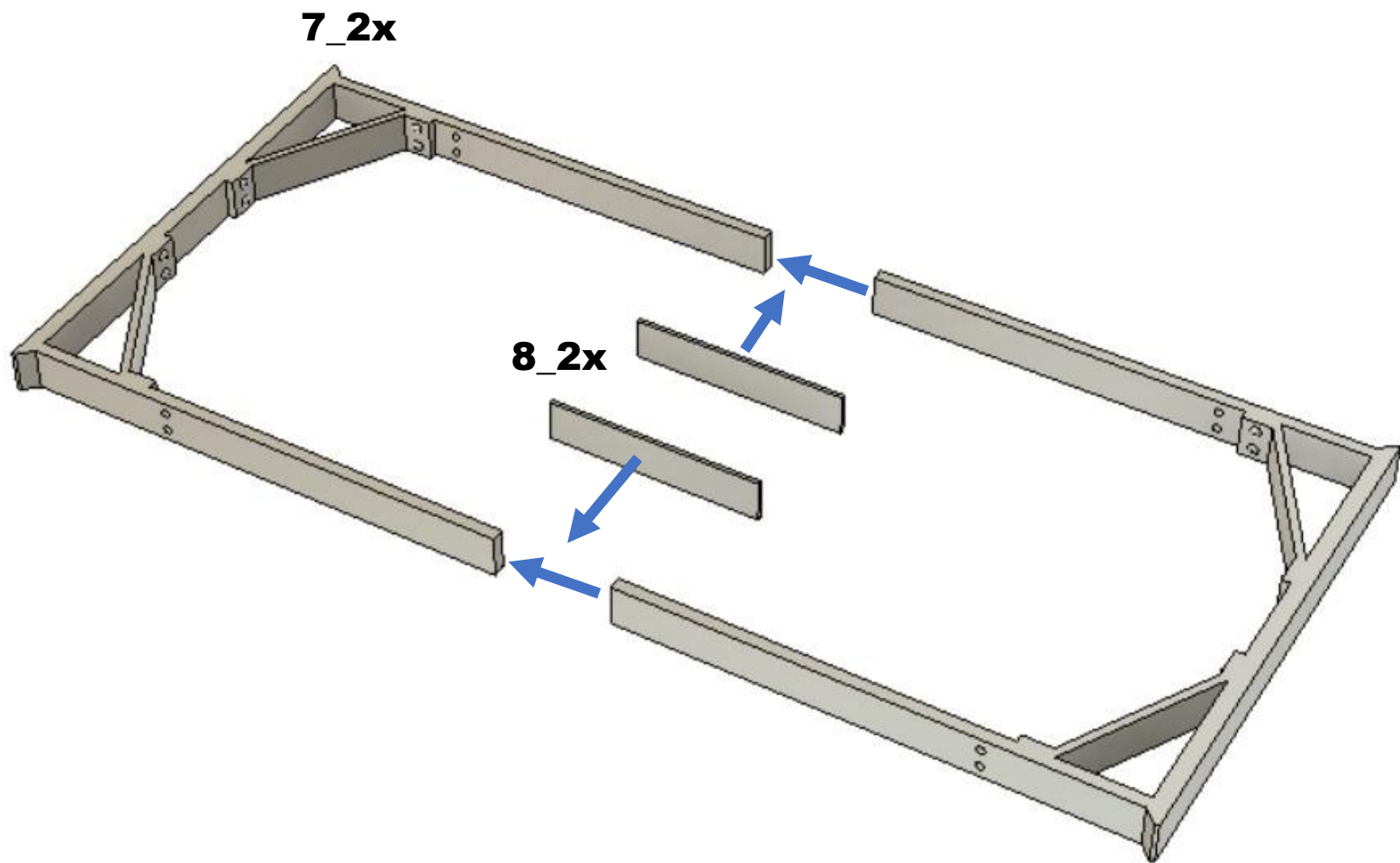








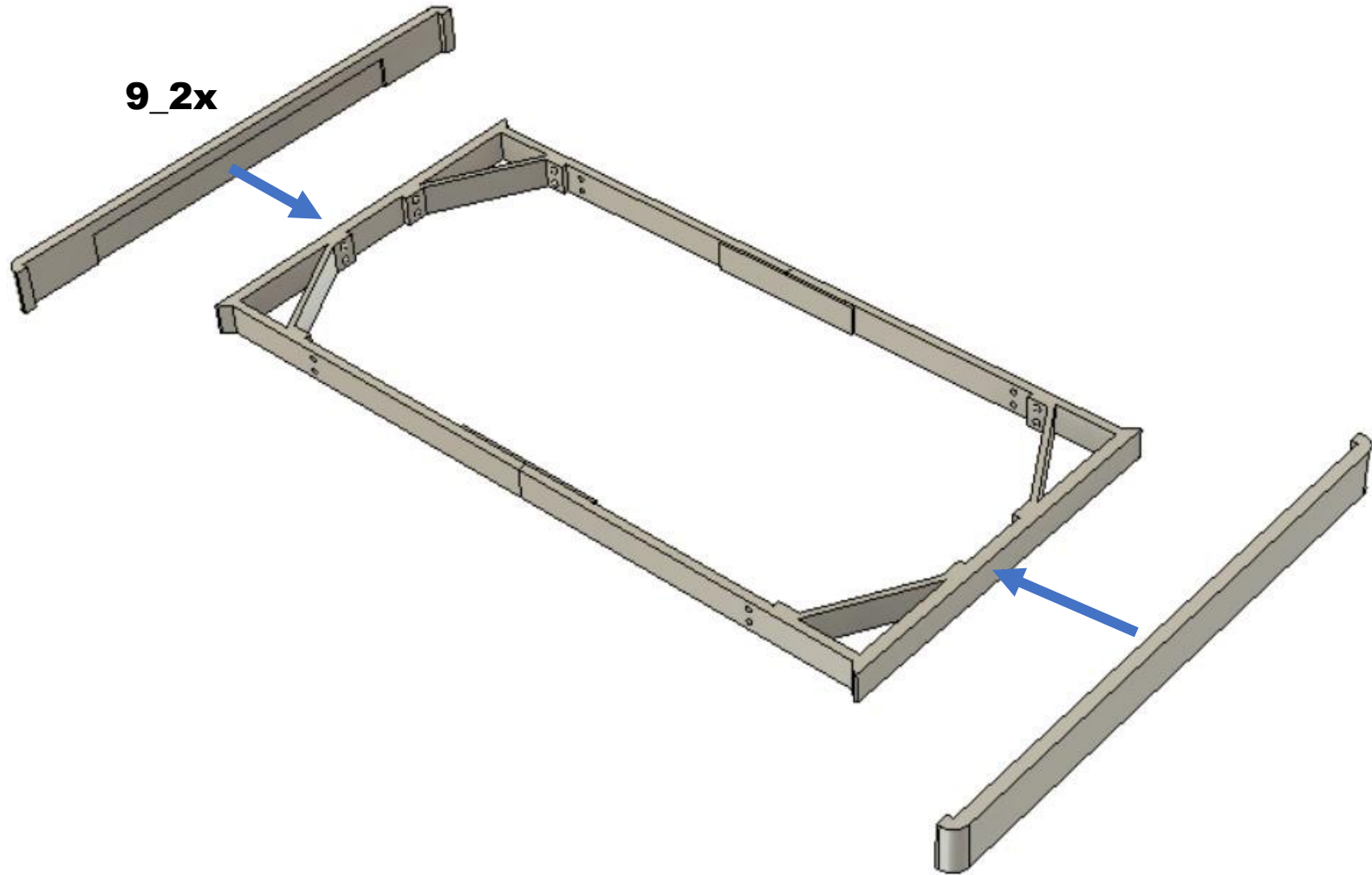




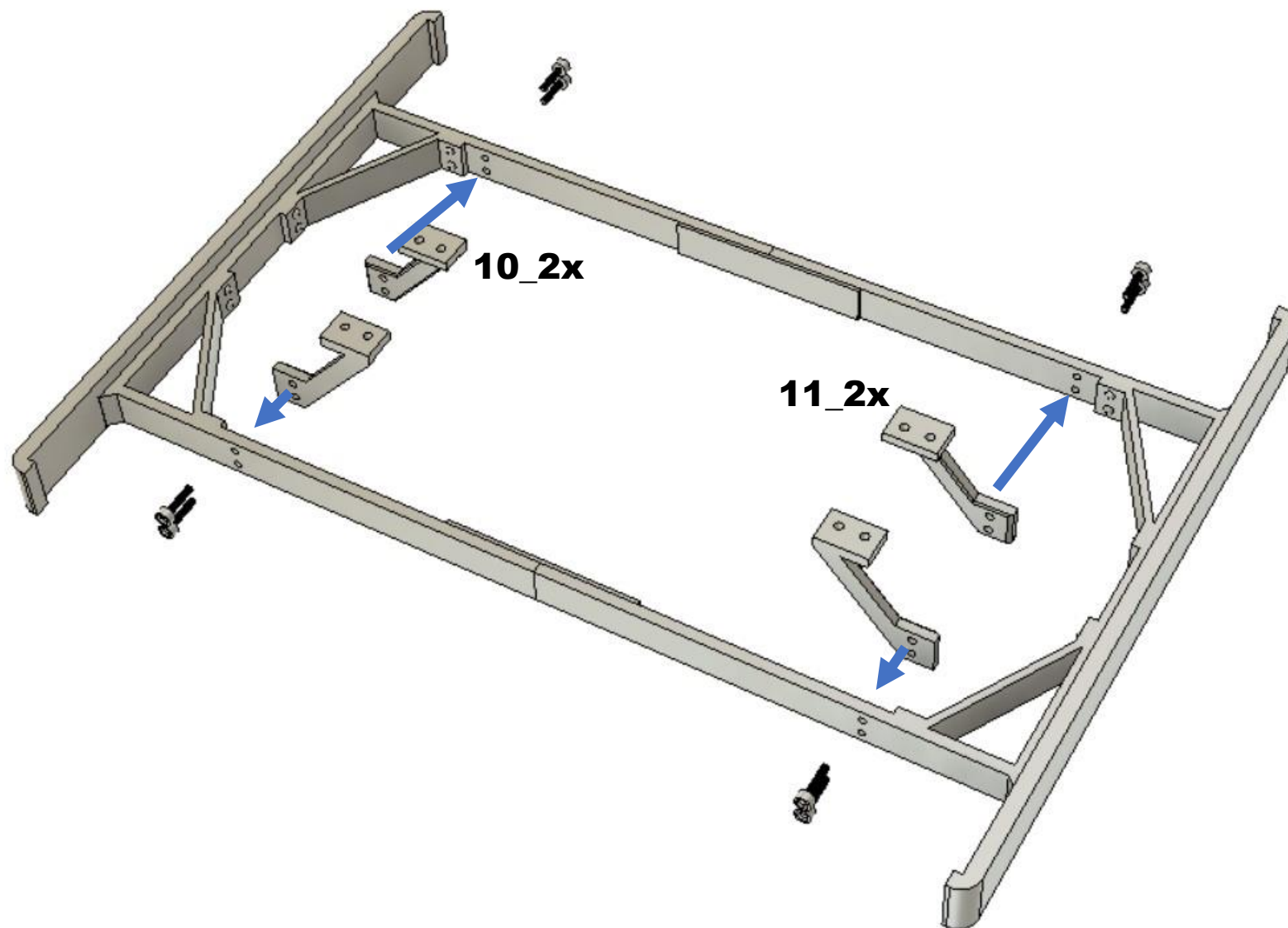




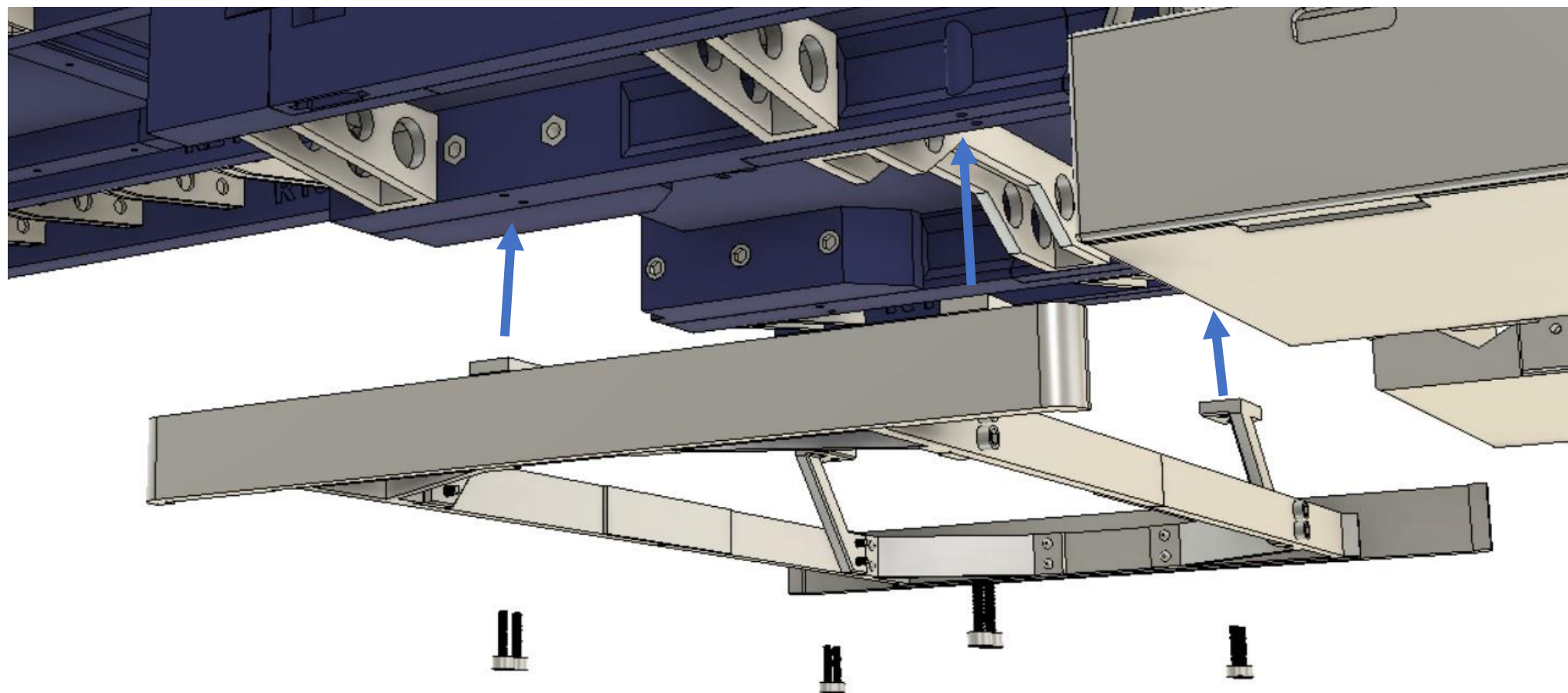
**9\_2x**

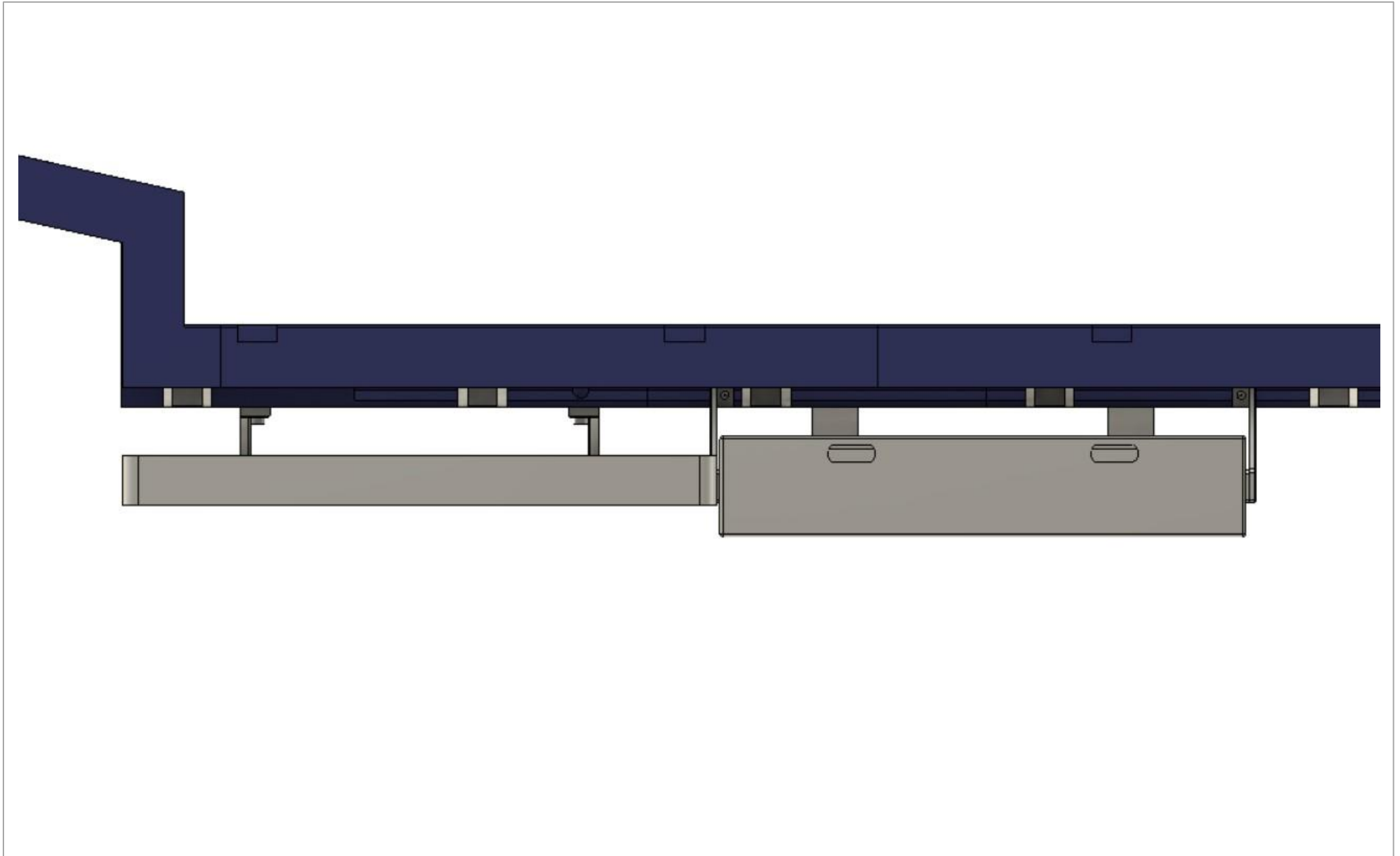


**Šroub 8x M2x6mm**

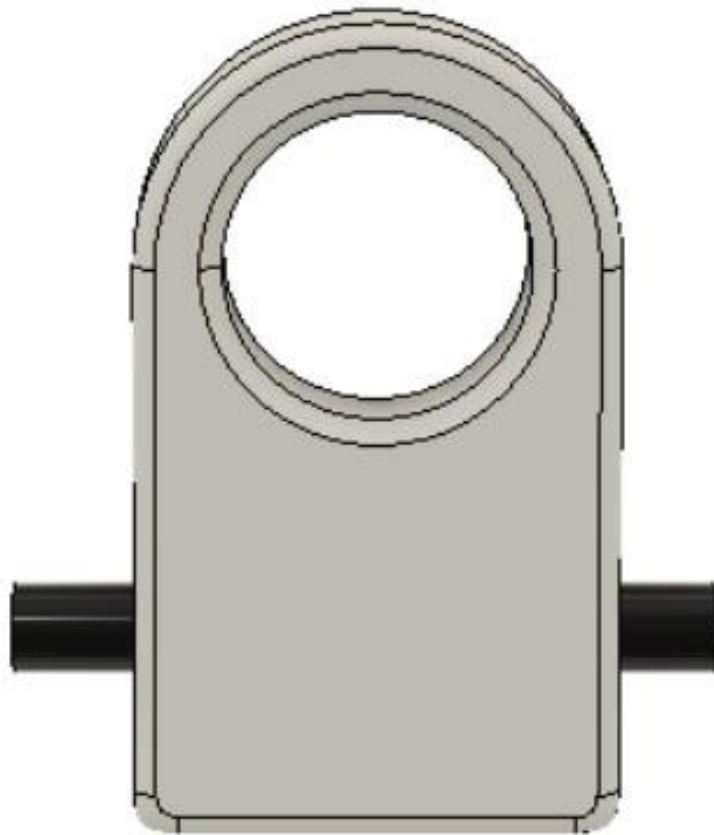
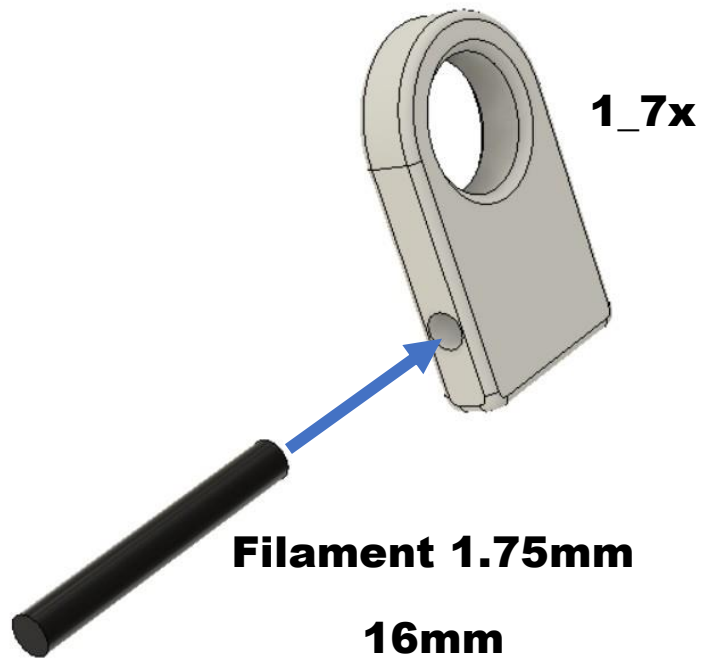


**Šroub 8x M2x10mm**



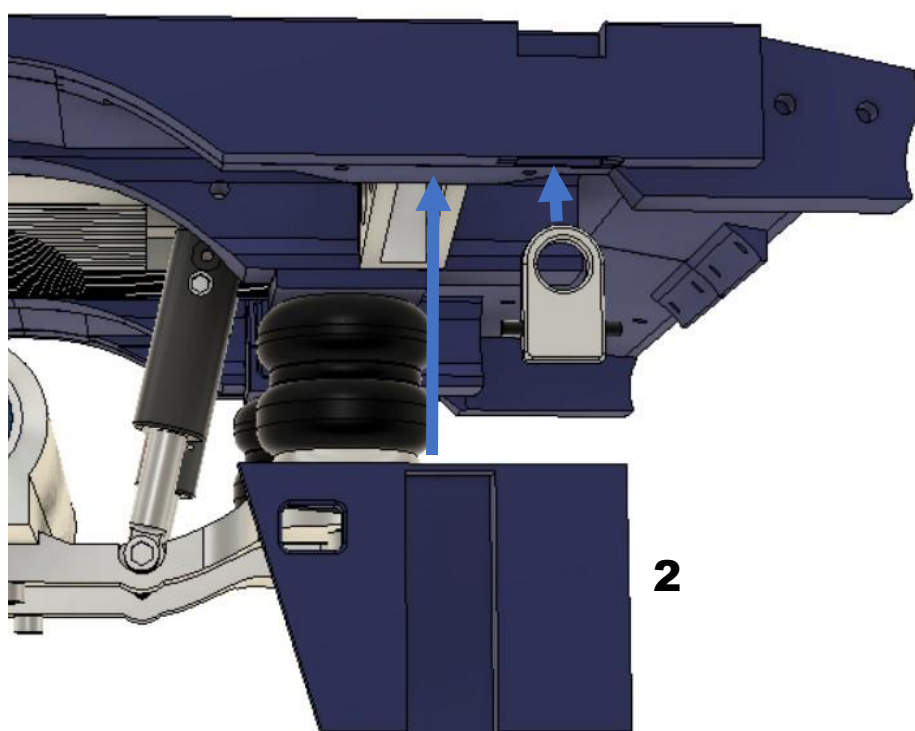


# Accessories L

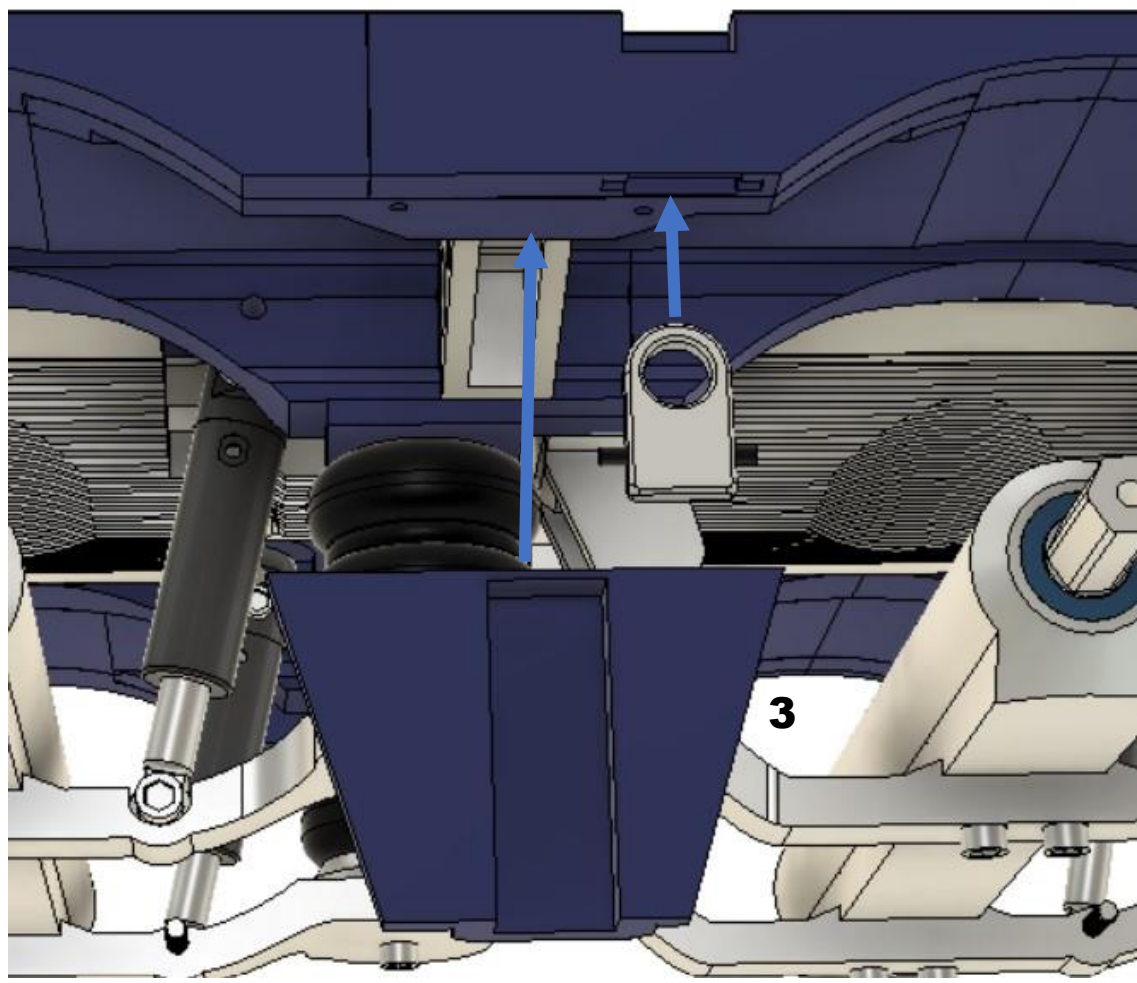




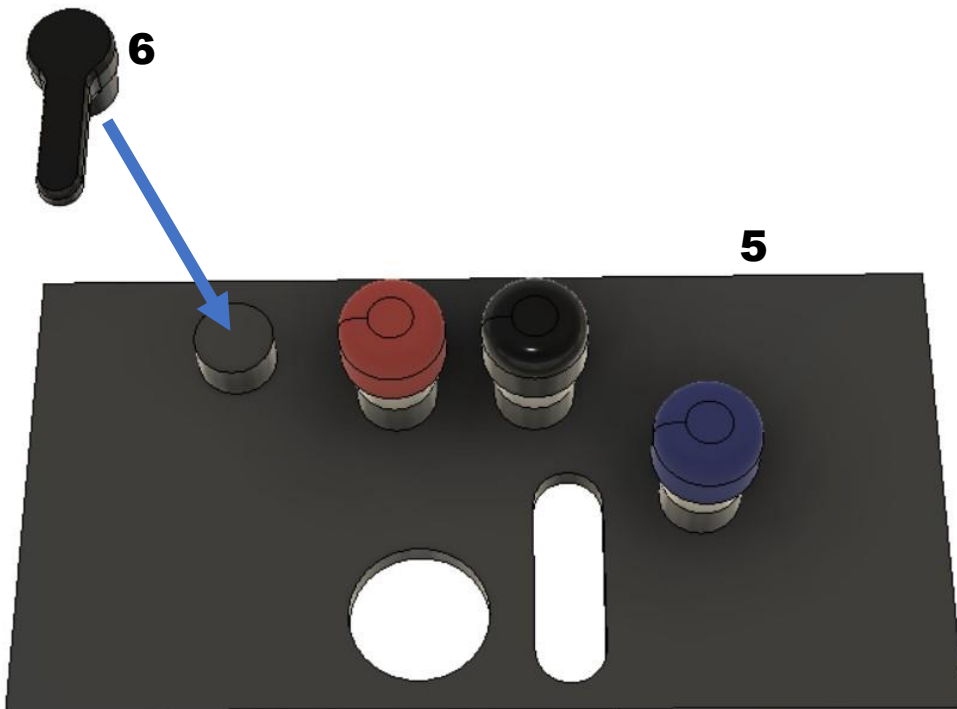
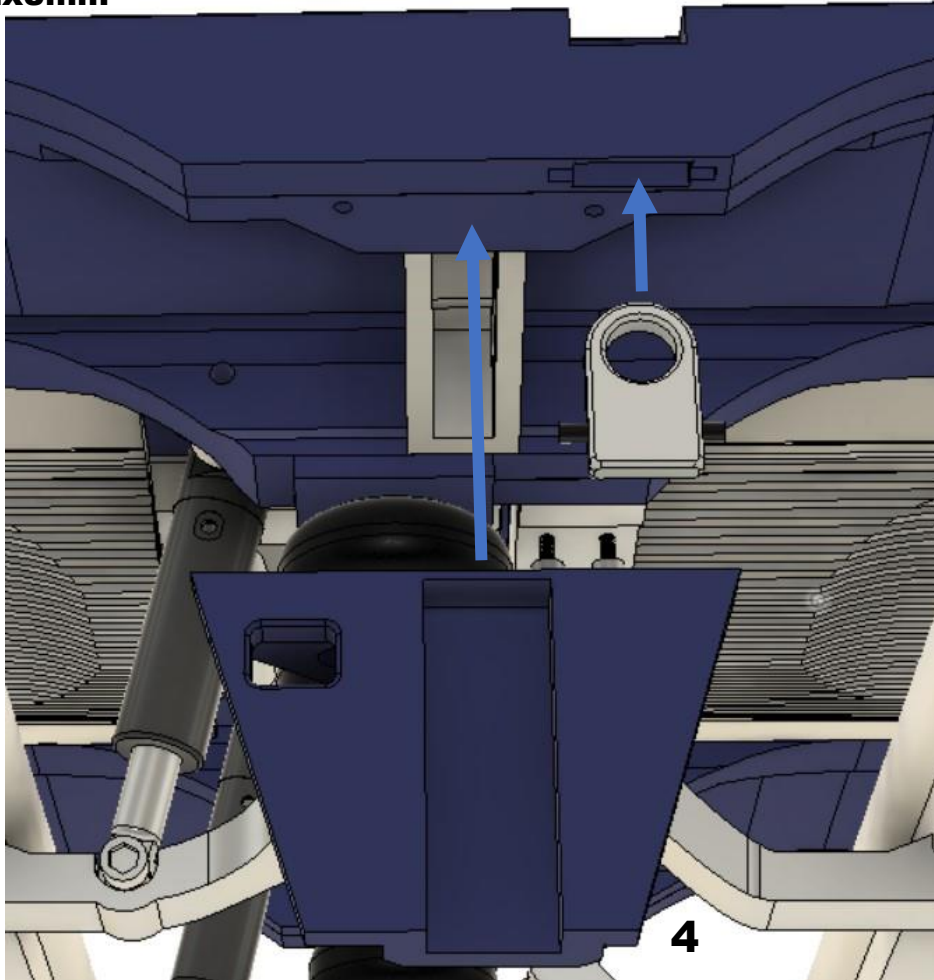
**Šroub 2x M2x8mm**

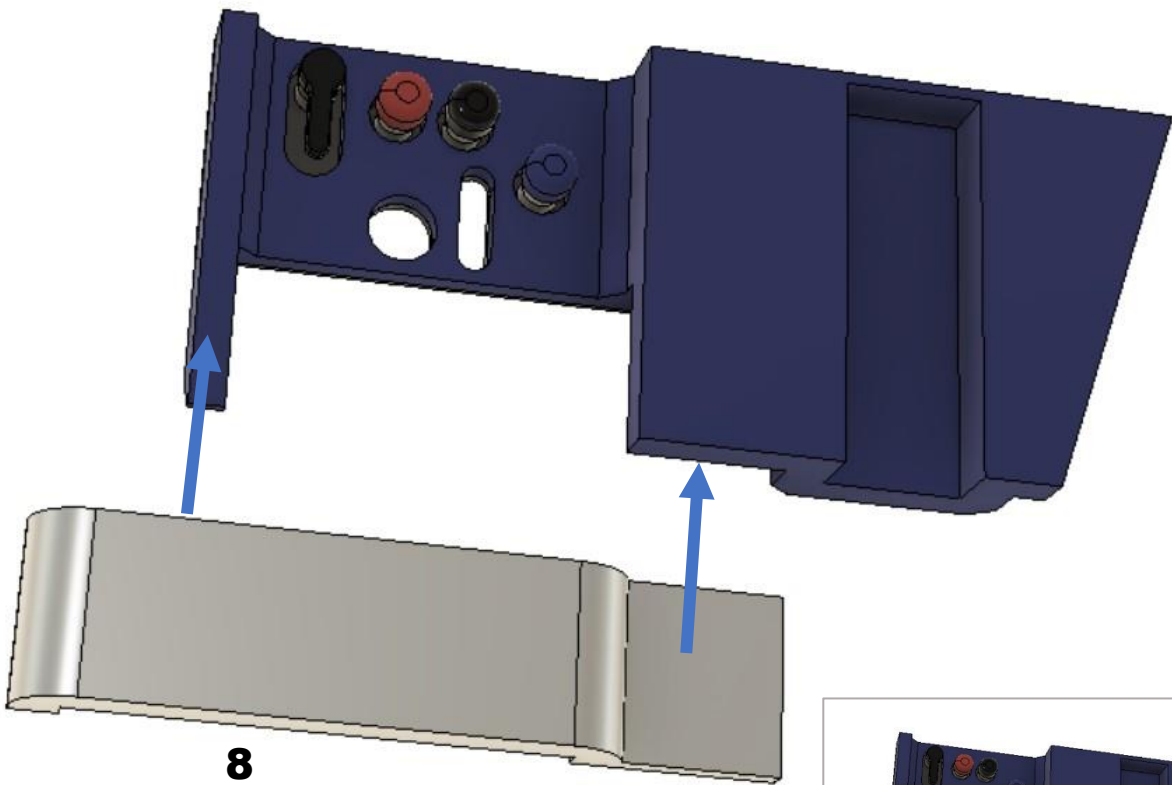
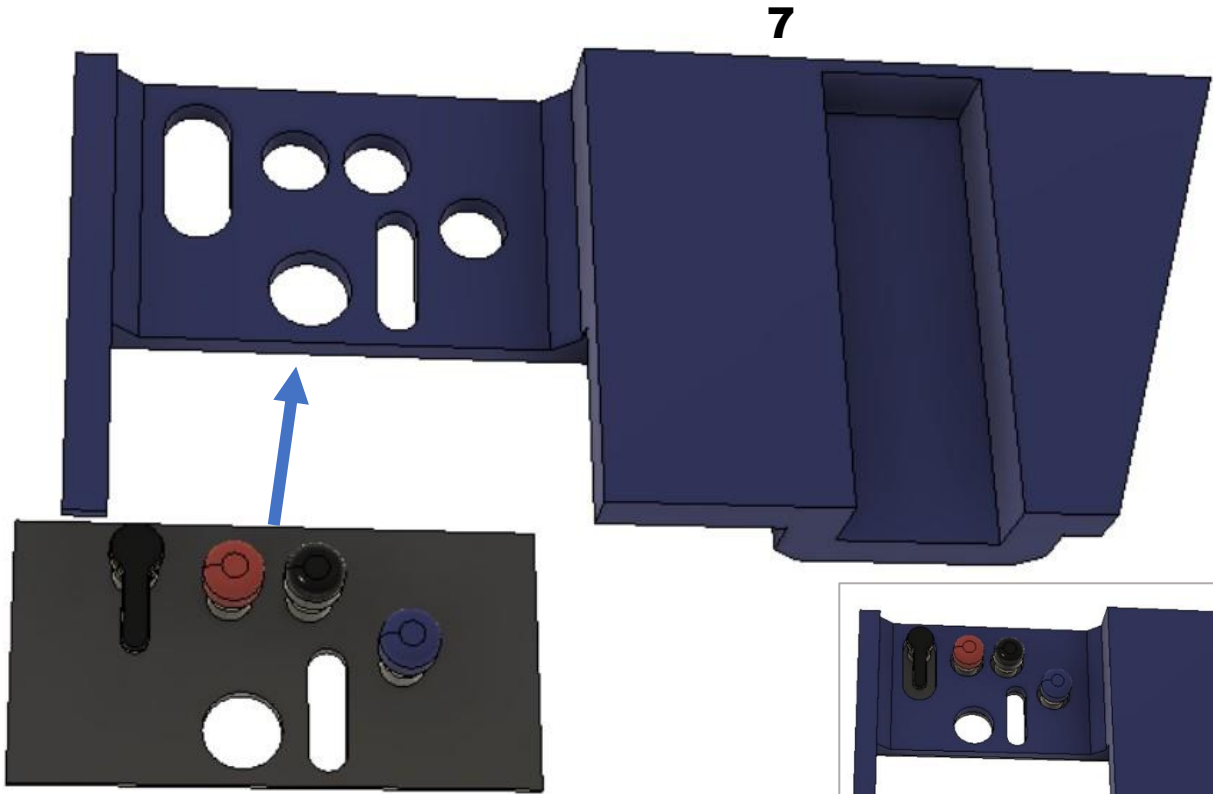


**Šroub 2x M2x8mm**

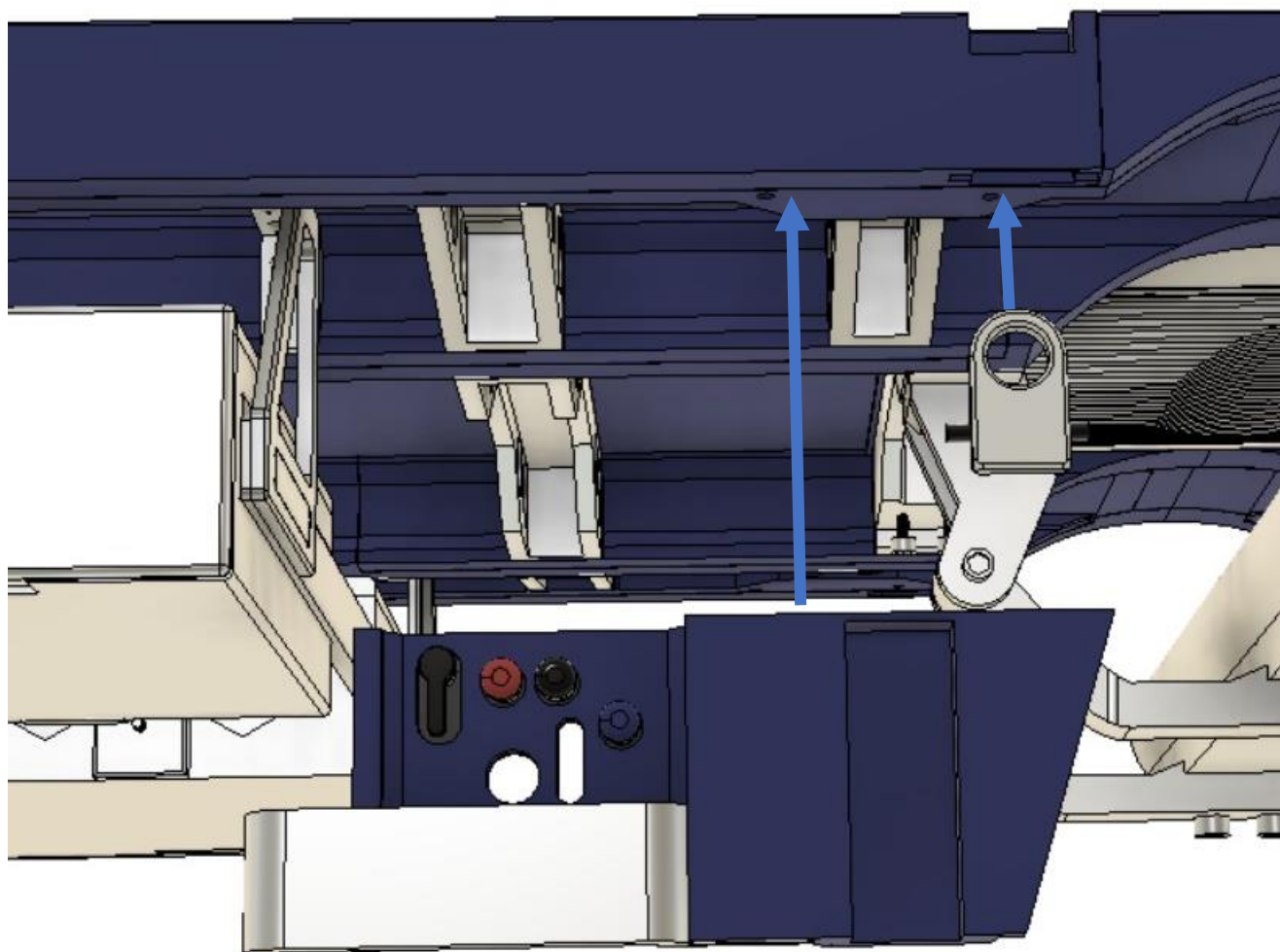


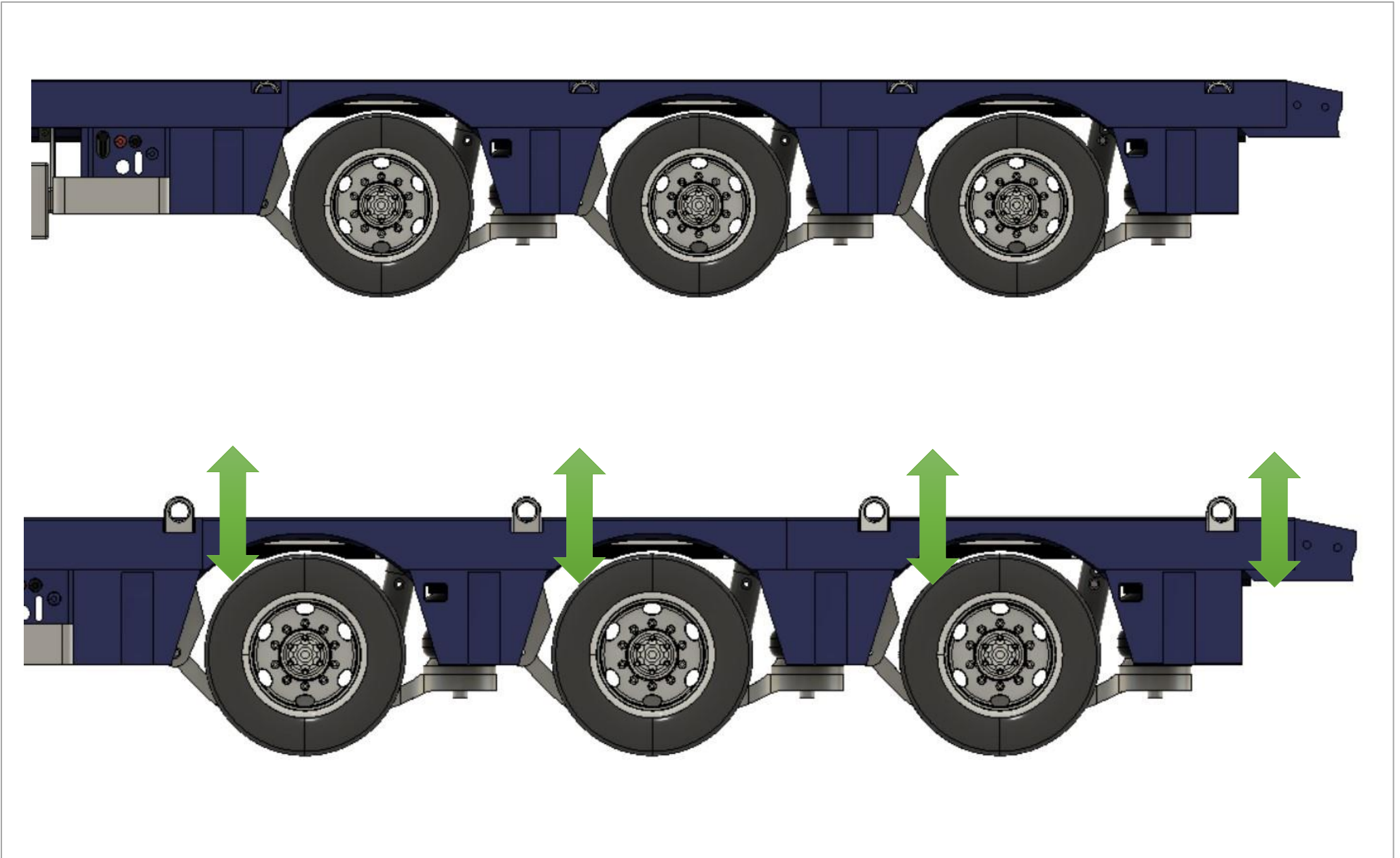
Šroub 2x M2x8mm





**Šroub 2x M2x8mm**

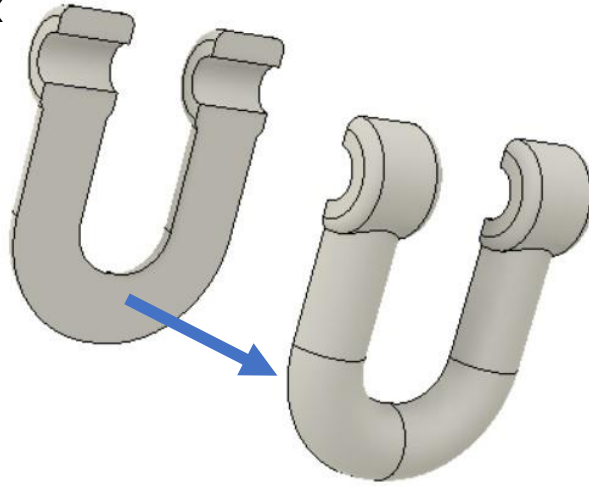






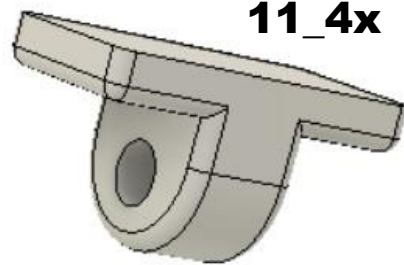


**9\_7x**



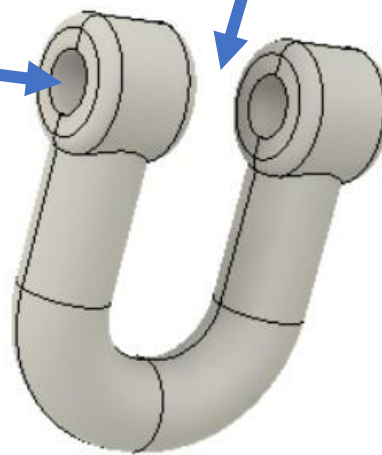
**10\_7x**

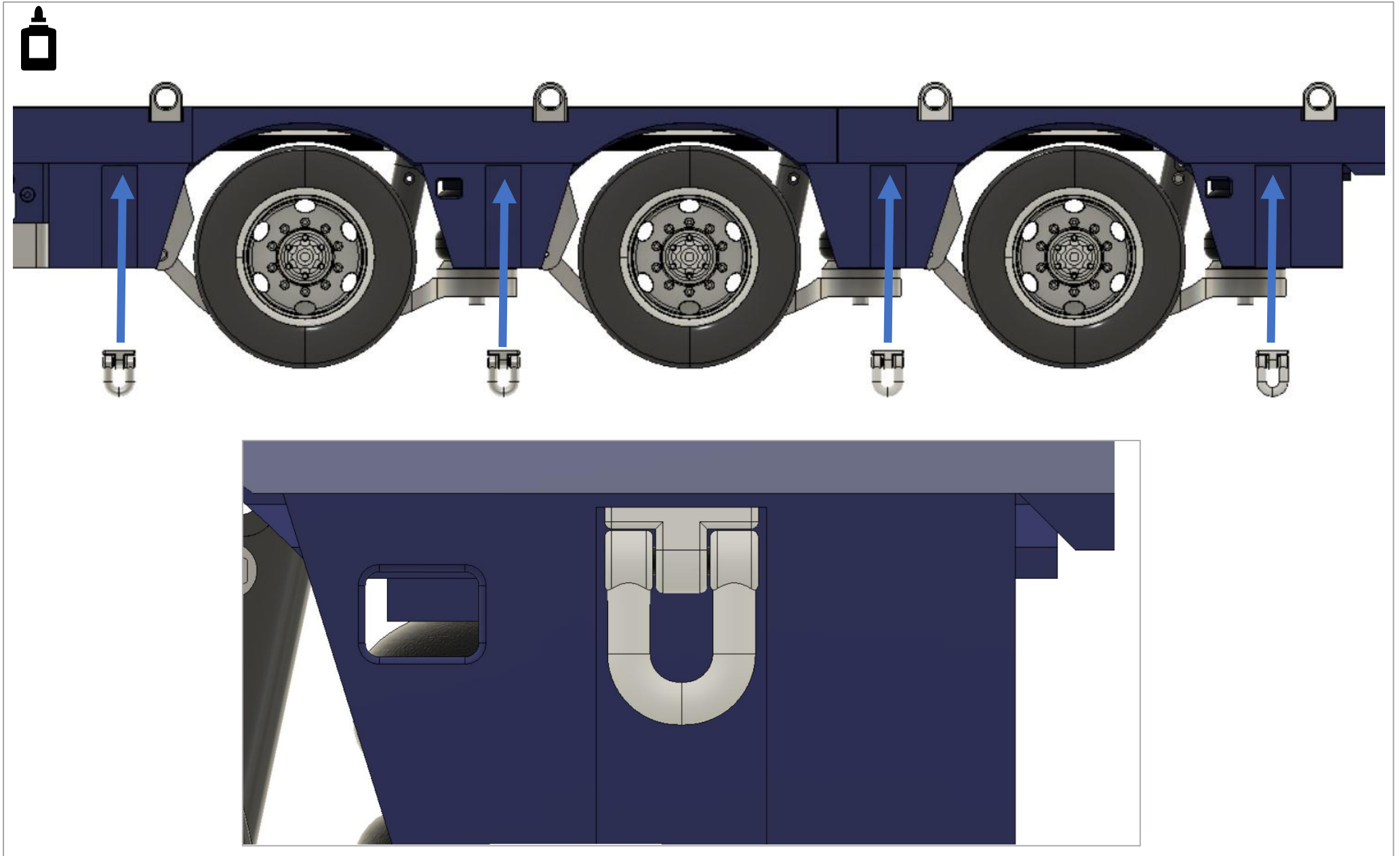
**11\_4x**



**Filament 1.75mm**

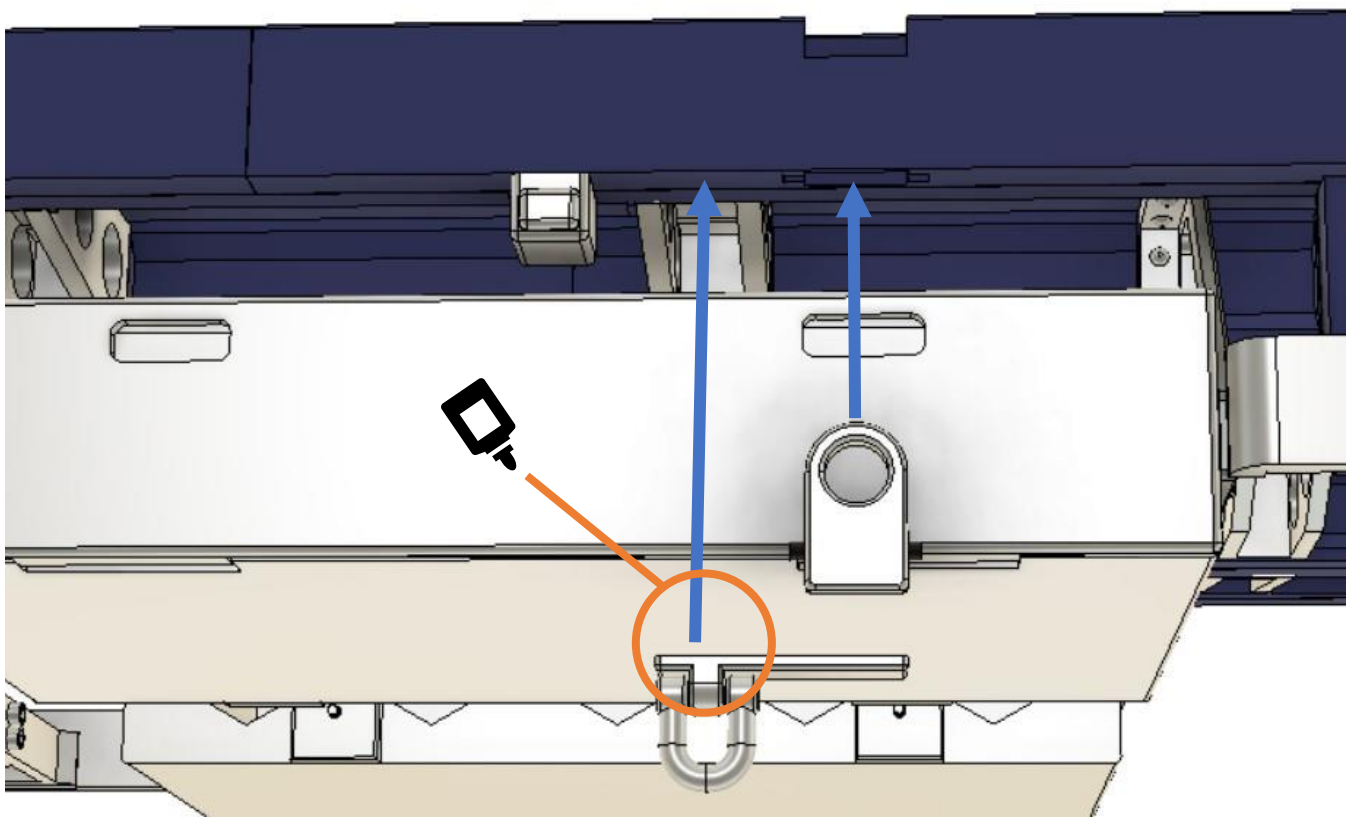
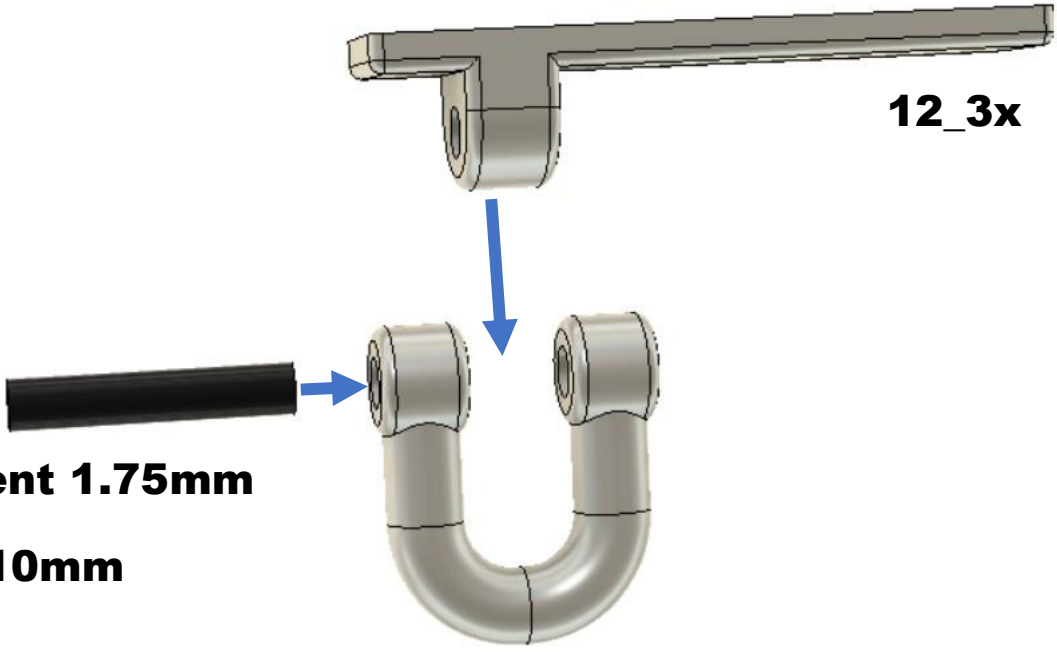
**10mm**

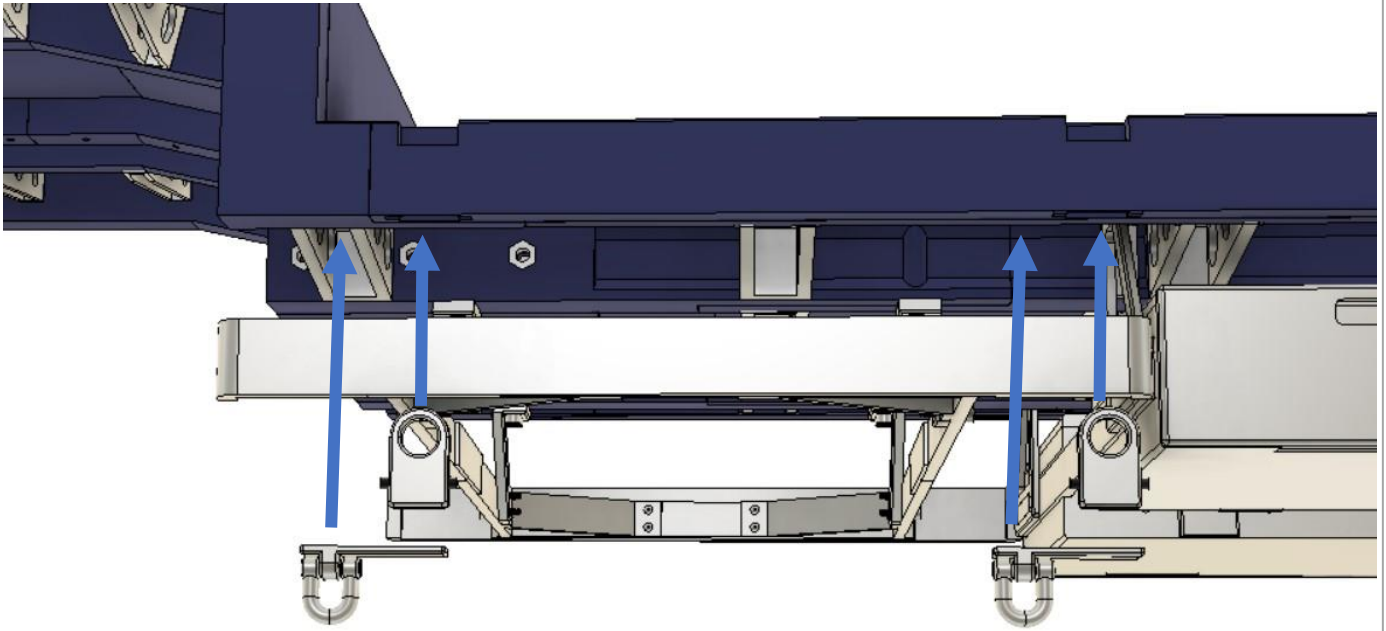




**12\_3x**

**Filament 1.75mm**  
**10mm**

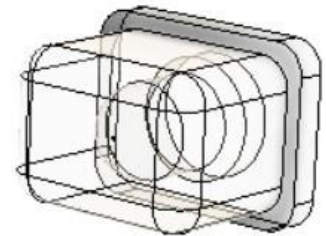
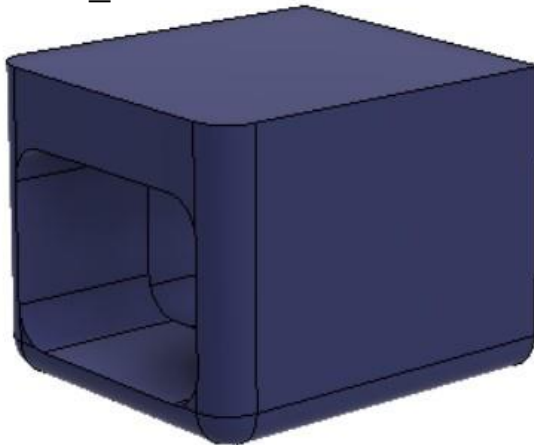


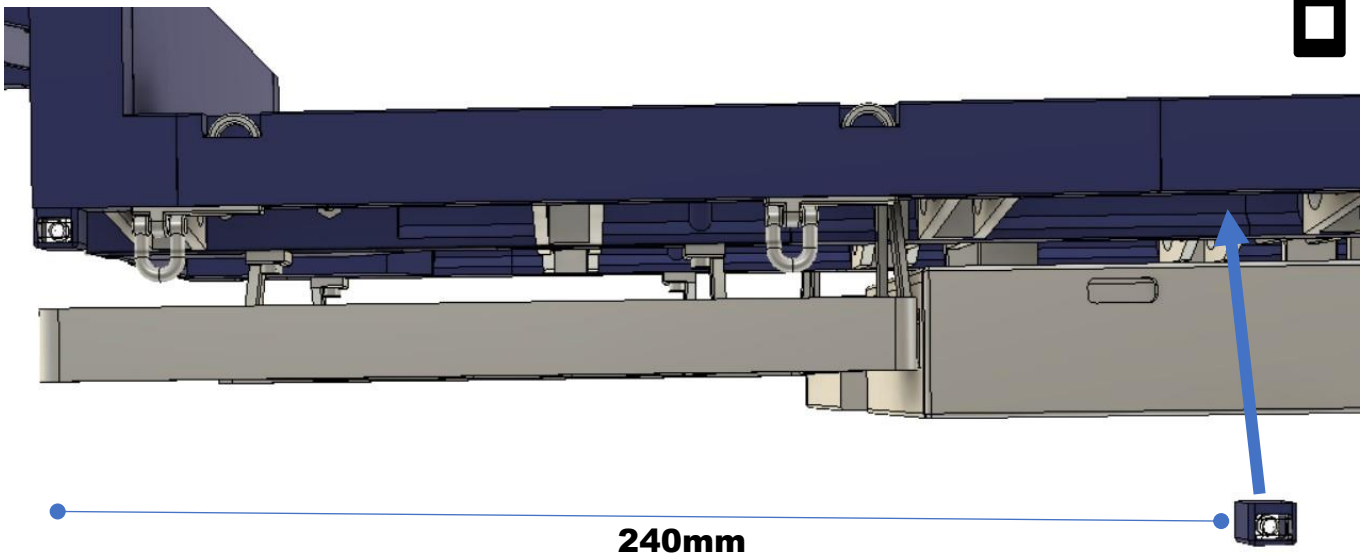
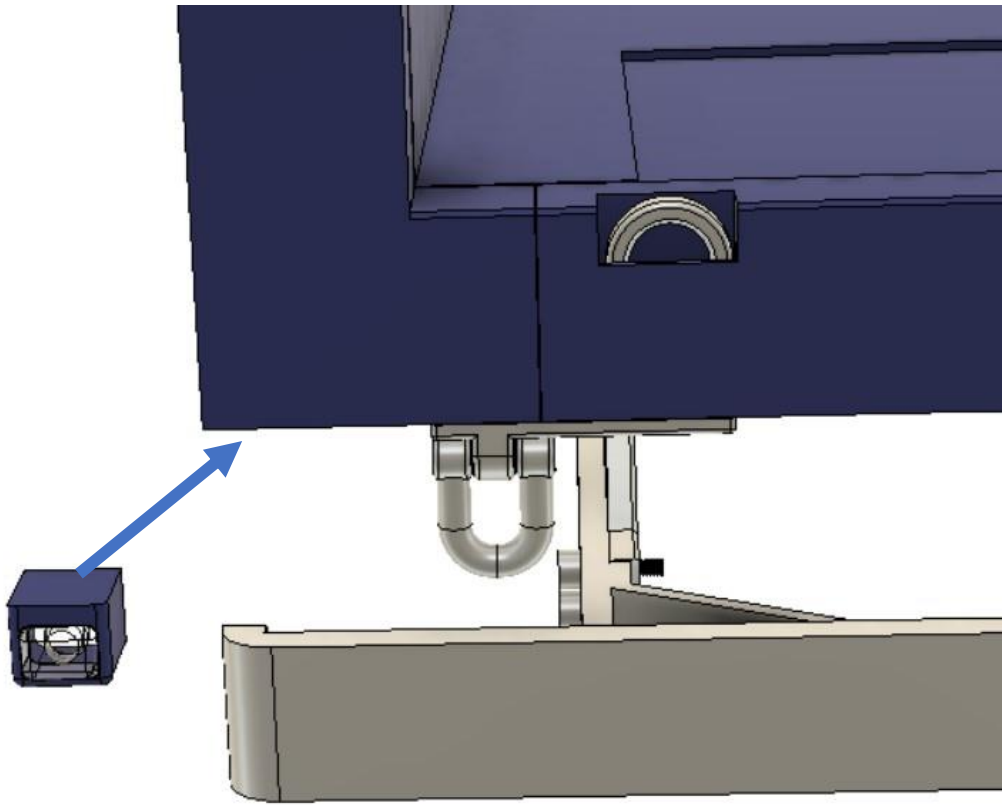


**Vložte LED 3mm oranžové**

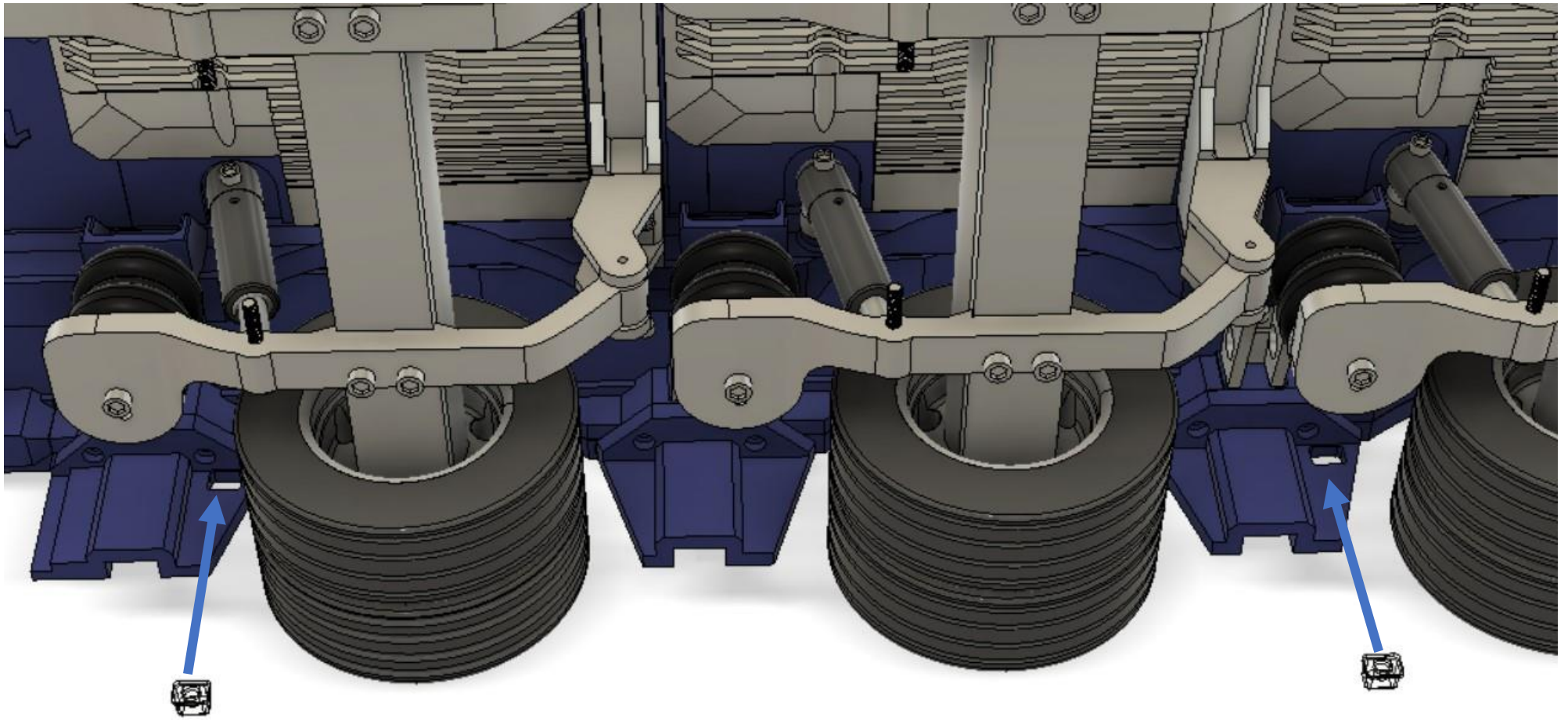
**14\_4x\_CLEAR**

**13\_2x**





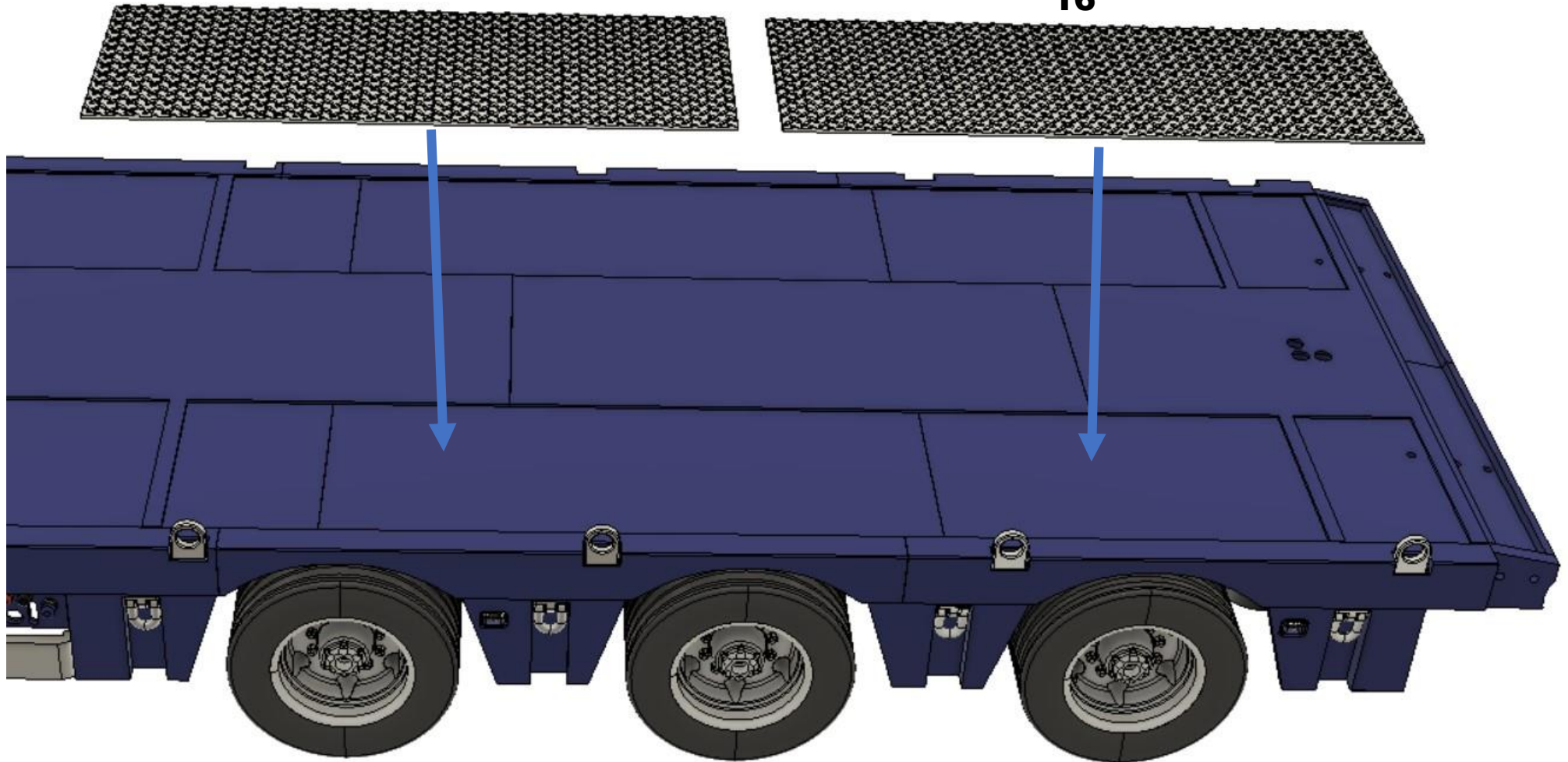






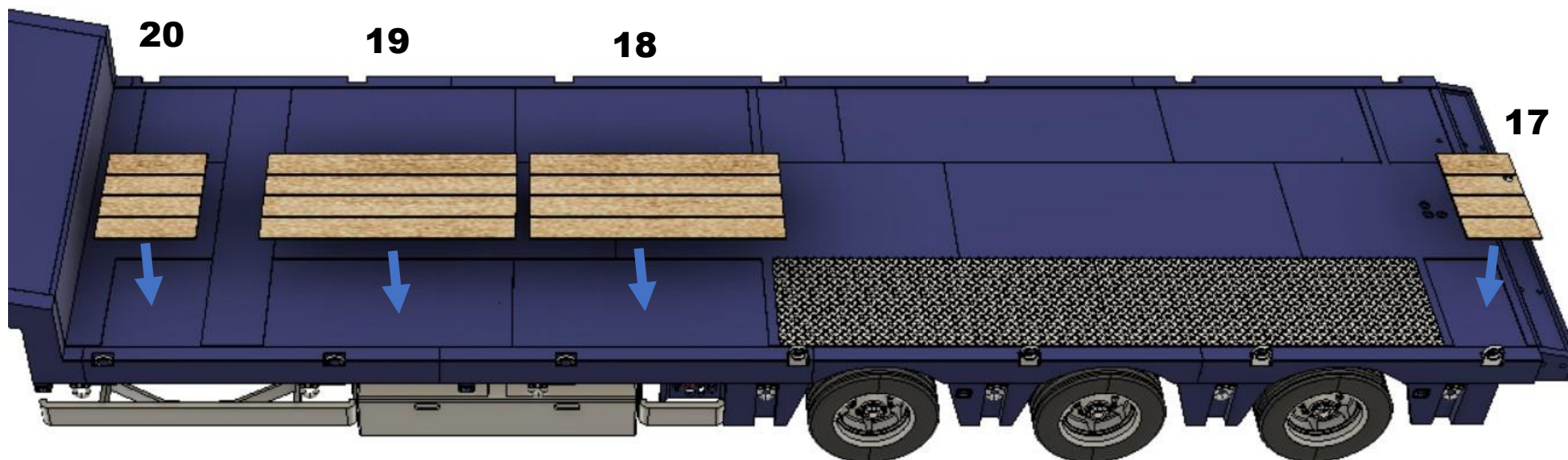
**15**

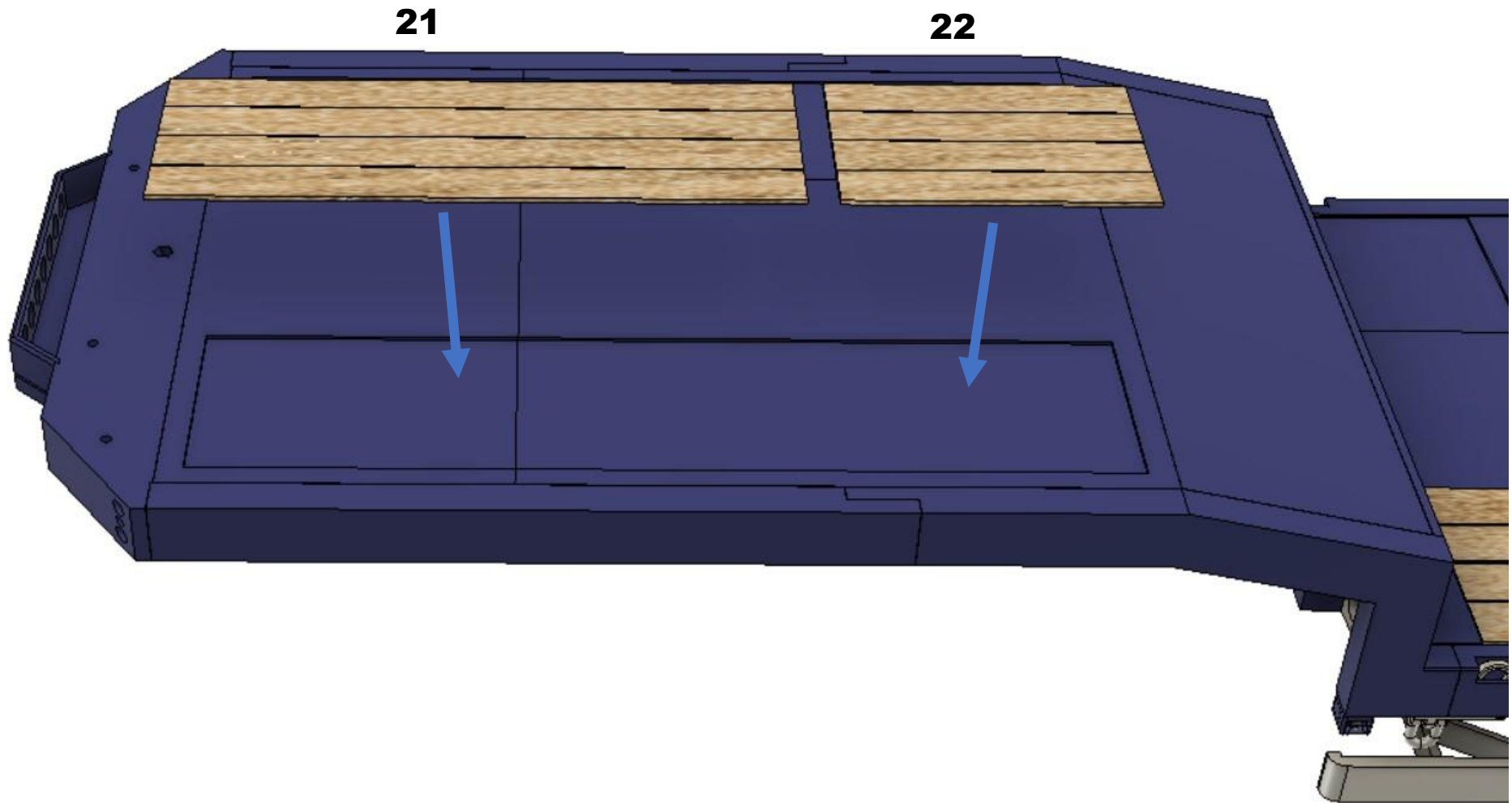
**16**





**Díly 17, 18, 19, 20, 21 a 22 doporučuji vyrobit z modelářské překližky o síle 1.5mm.**







# Accessories R

**Pro pravou strnu postupujte stejně. Použijte díly ze složky „AccessoriesR“.**

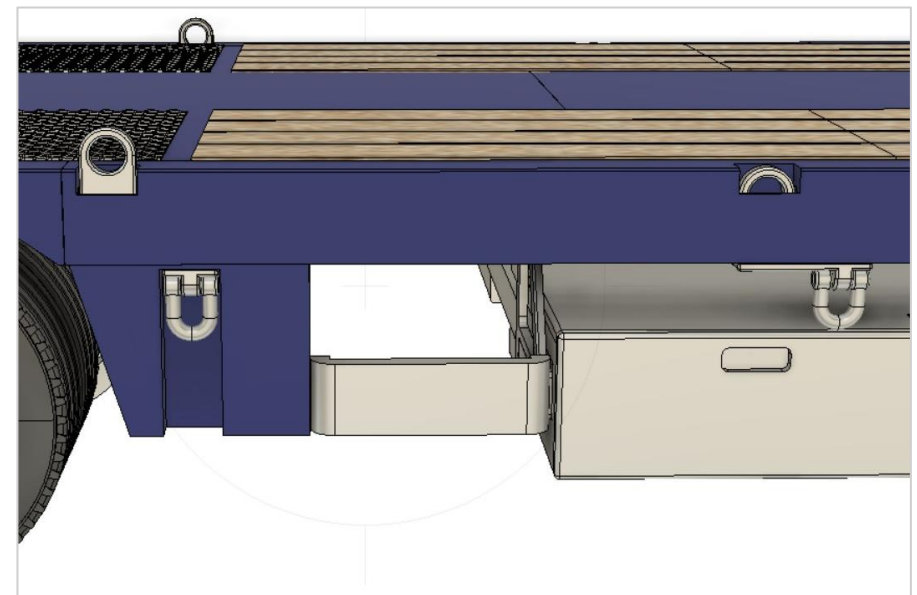
**Číslování dílů se shoduje s „AccessoriesL“.**

**Pravá strana neobsahuje díly 5 a 6.**

**L**



**R**



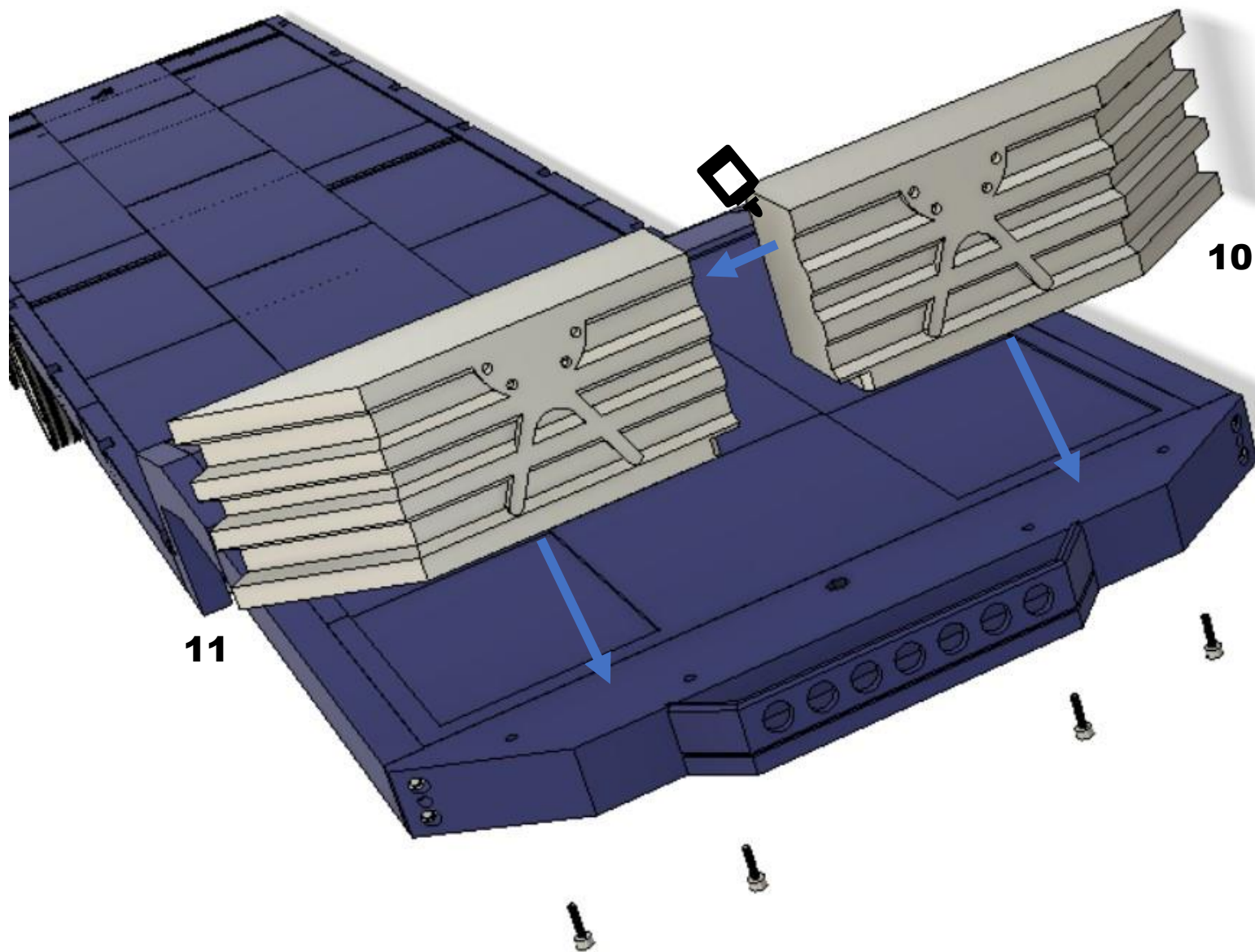




# Accessories



Šroub 4x M3x10mm





4



6



7



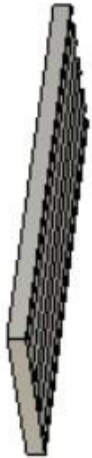
2



3



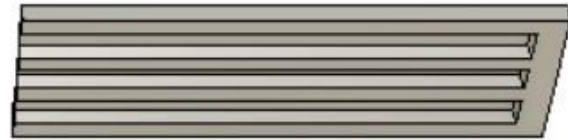
5



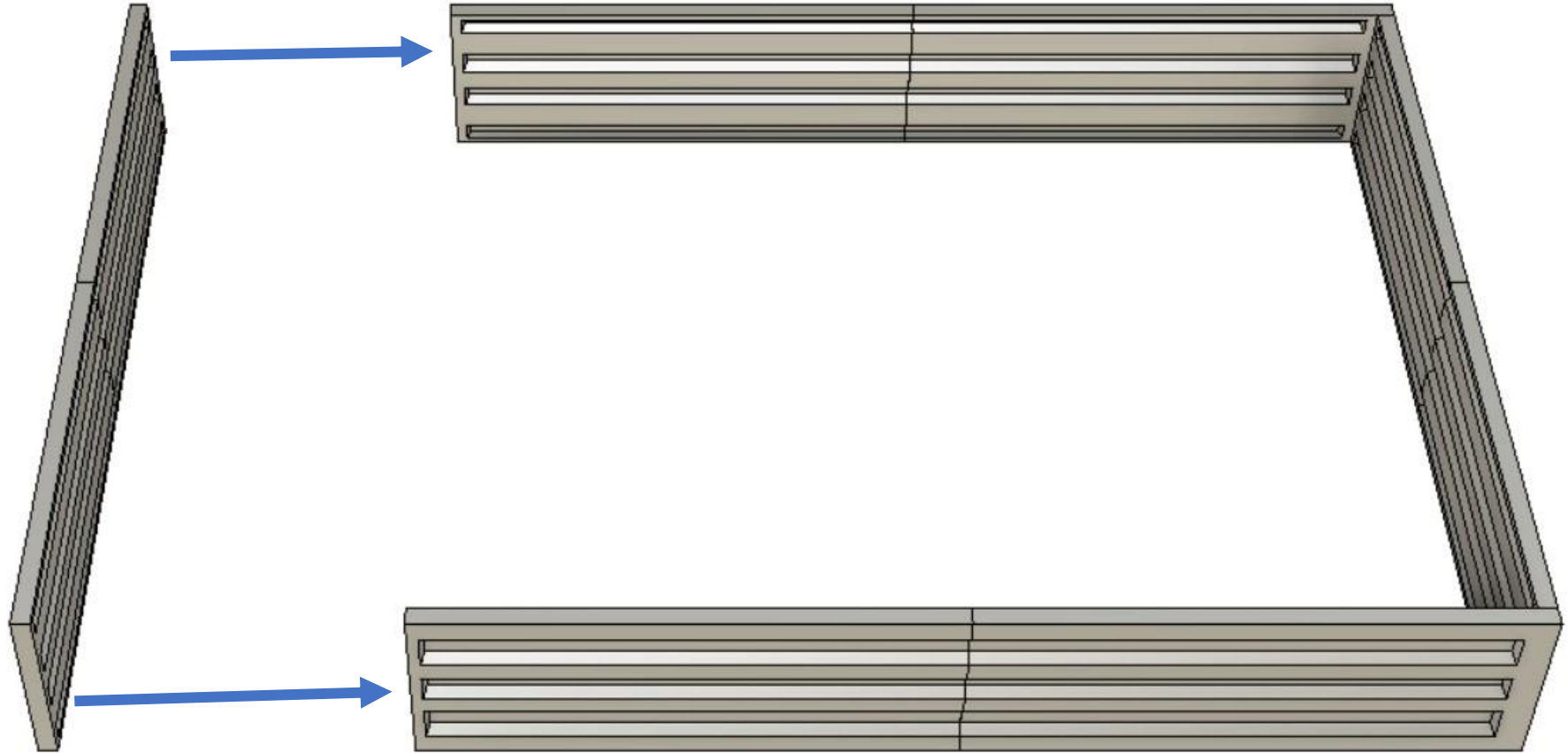
8



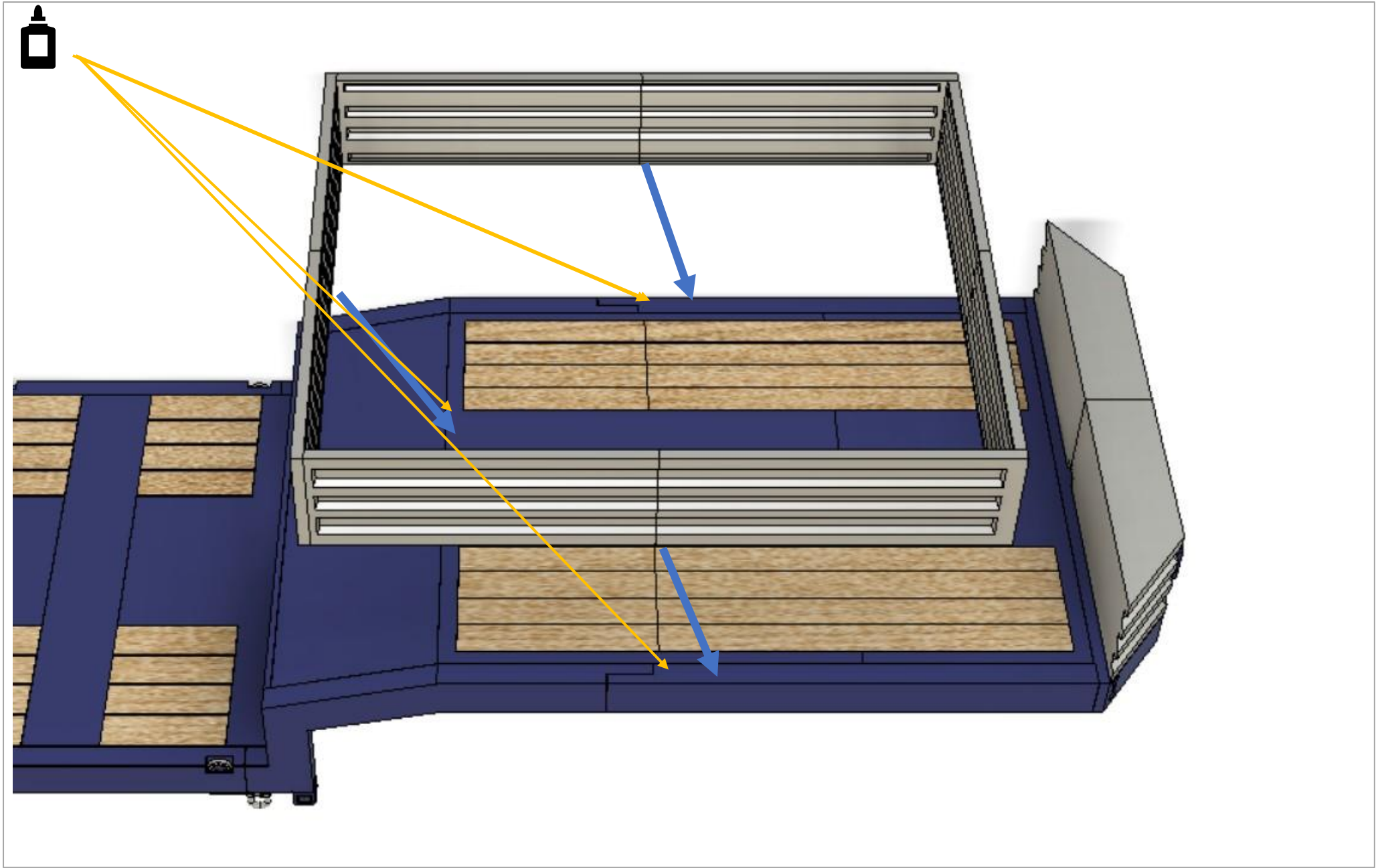
9

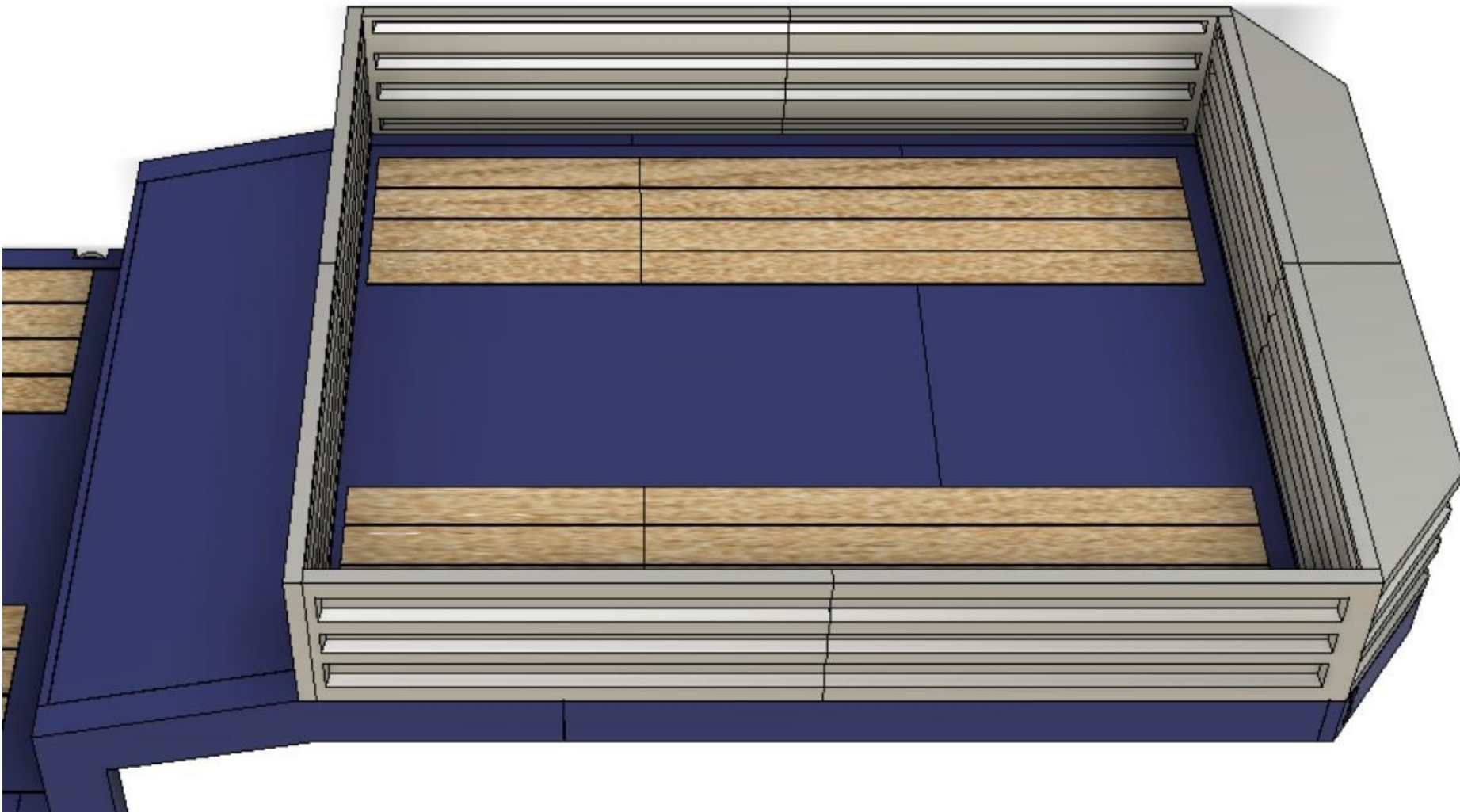


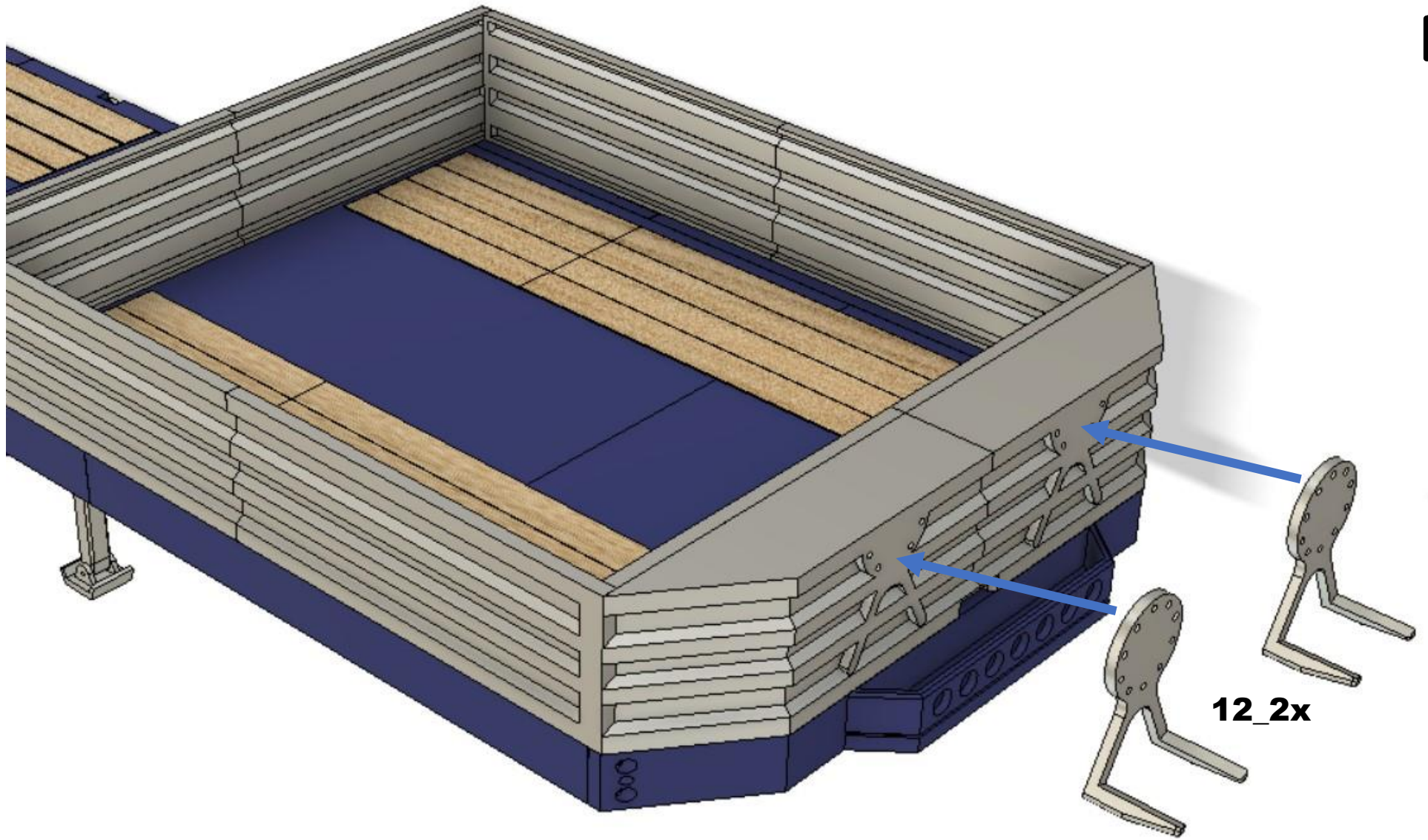






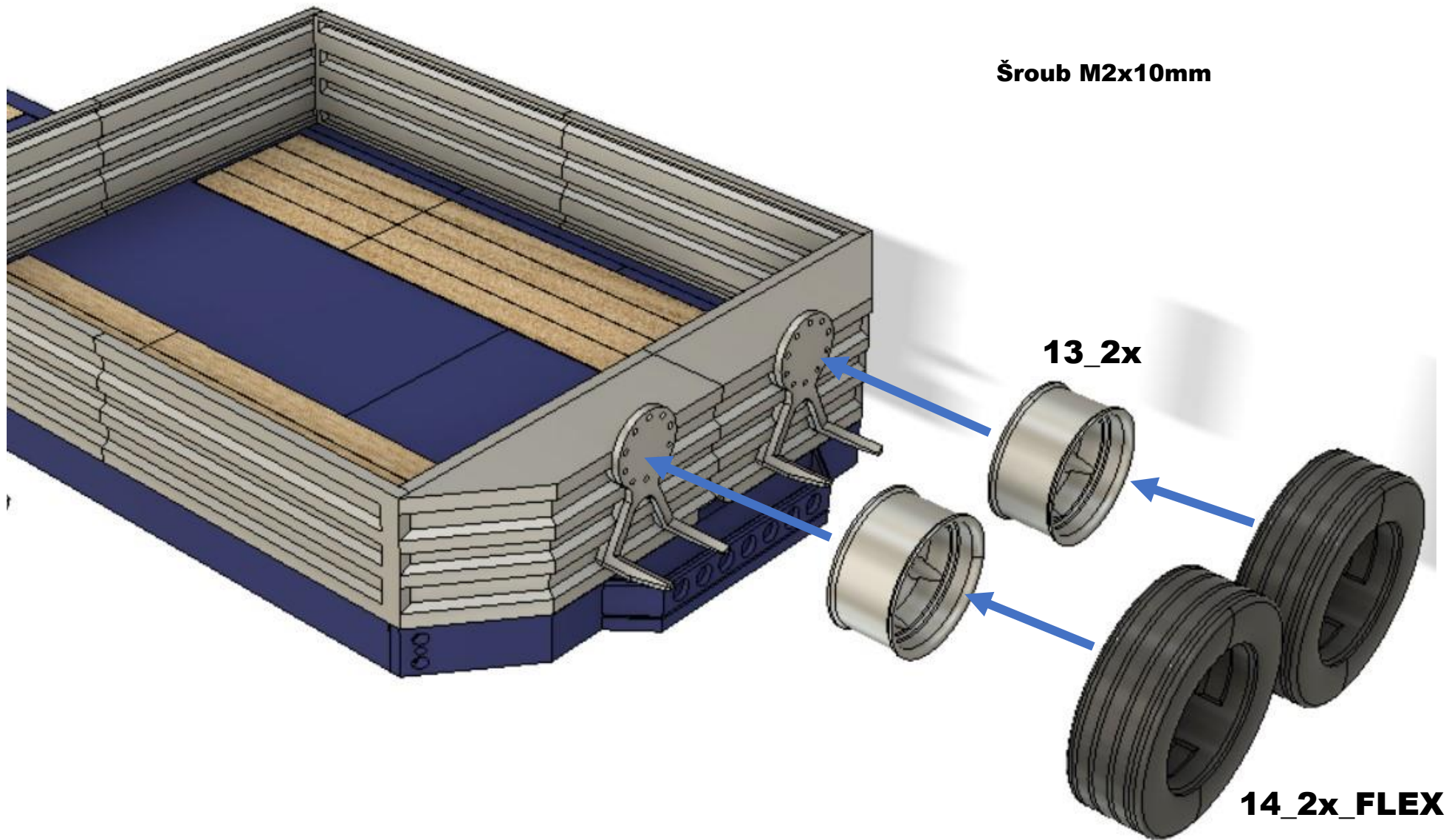


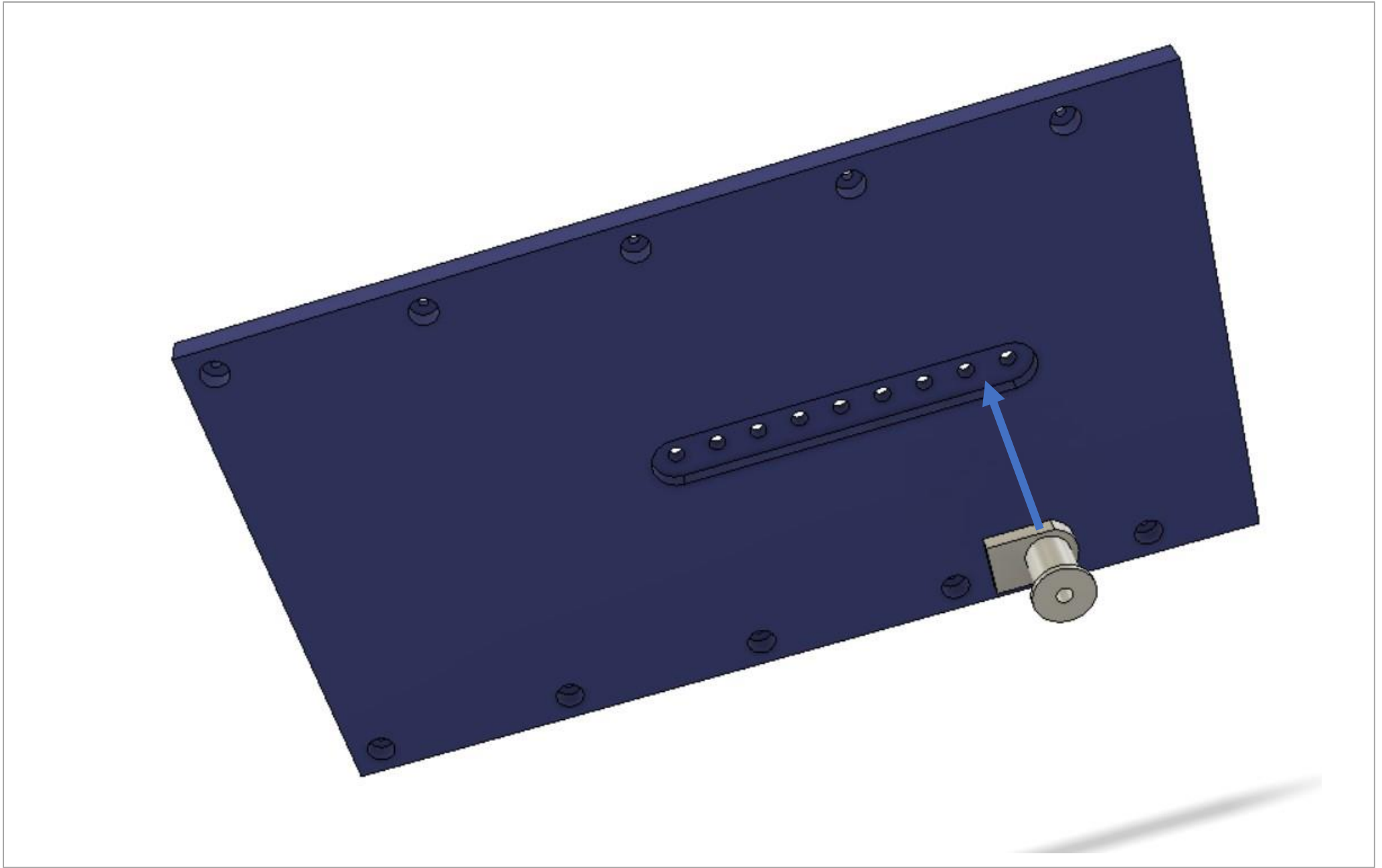




**12\_2x**

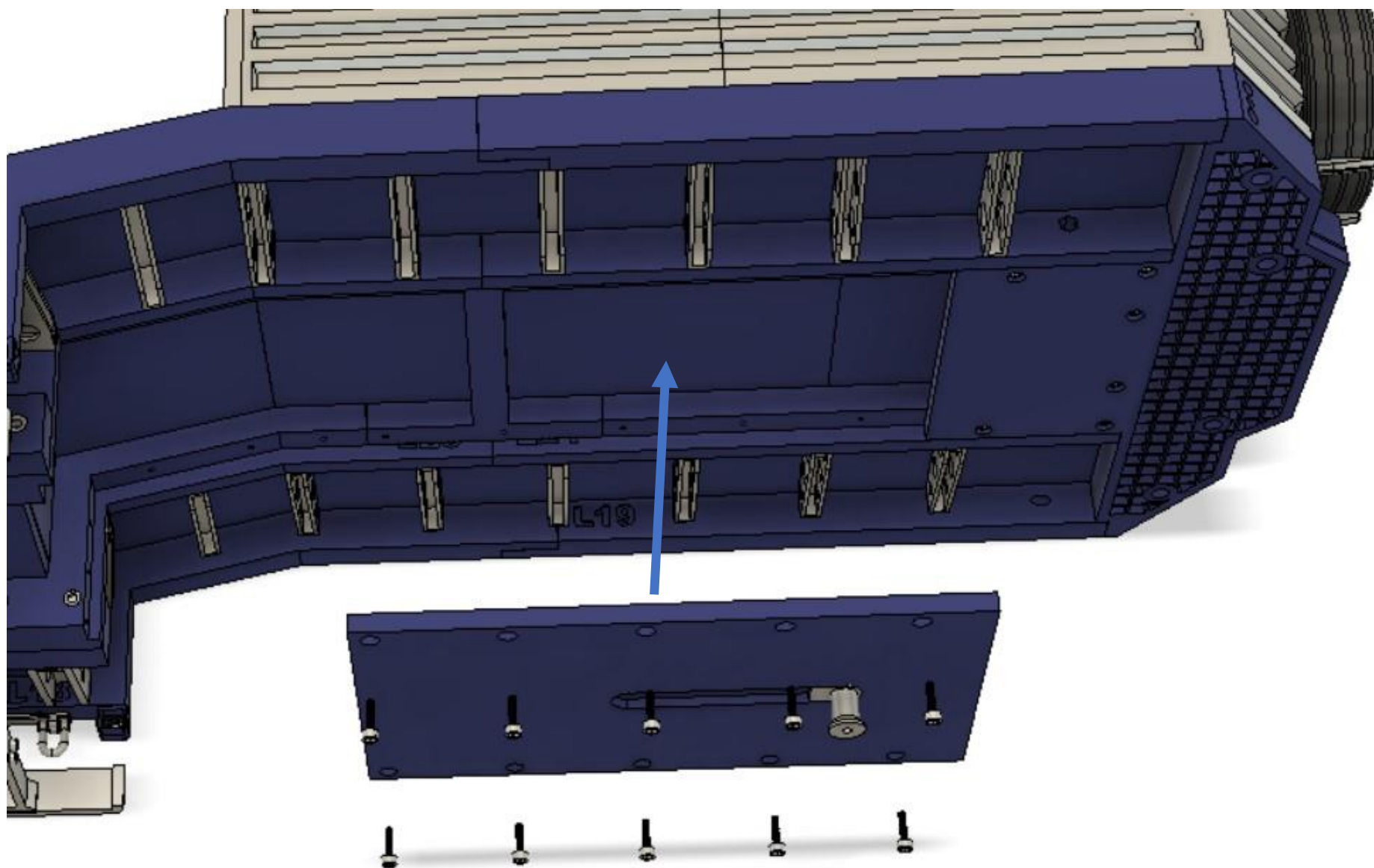




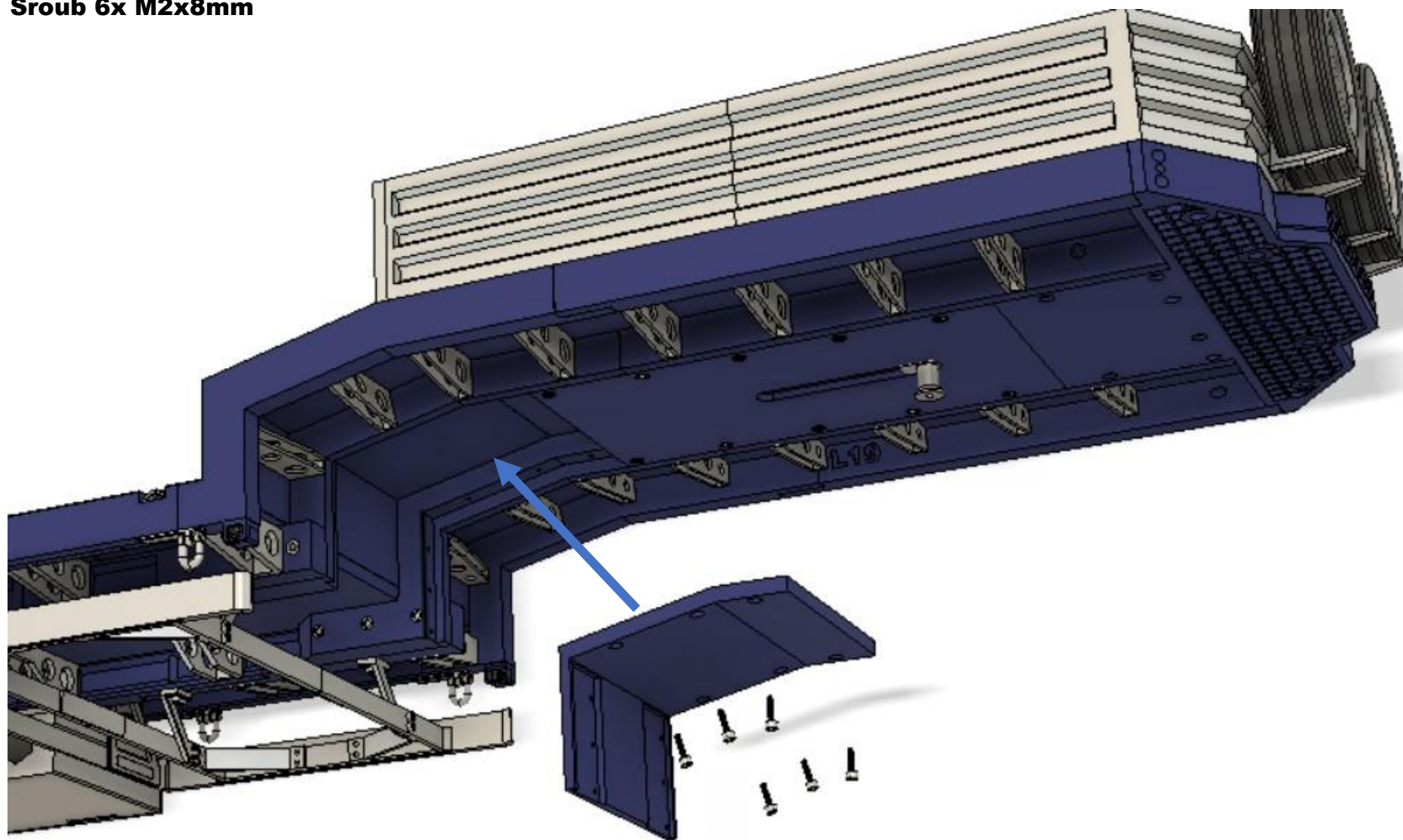




Šroub 10x M2x8mm



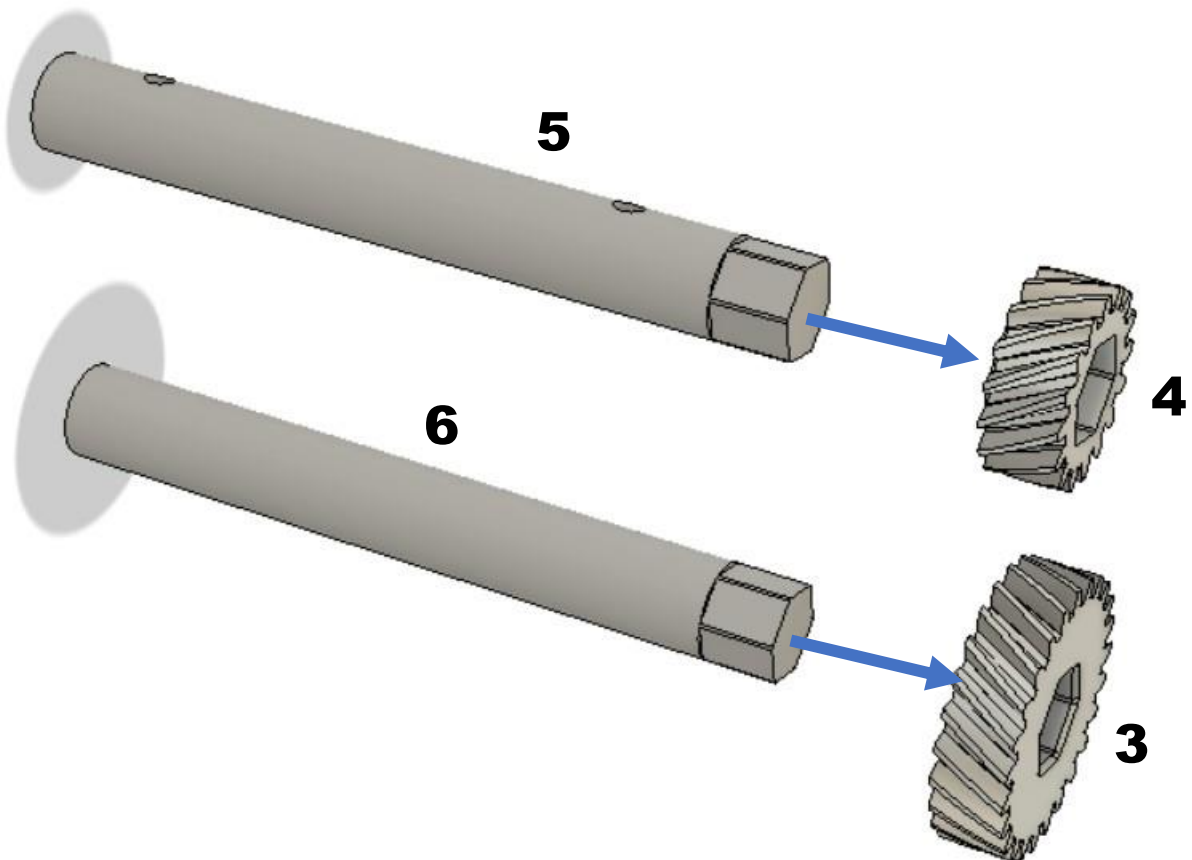
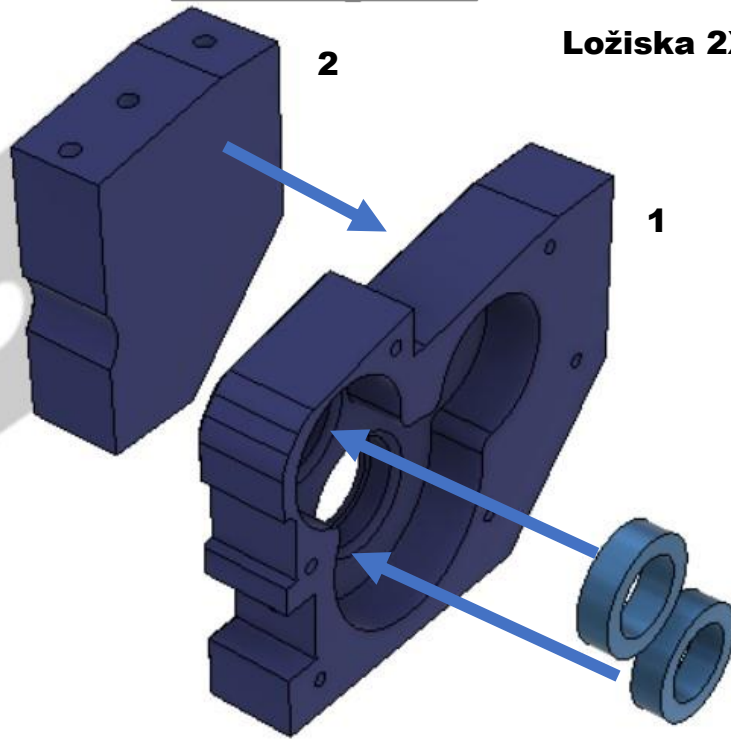
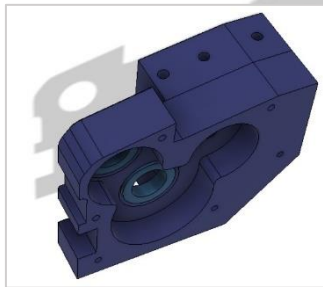
**Šroub 6x M2x8mm**

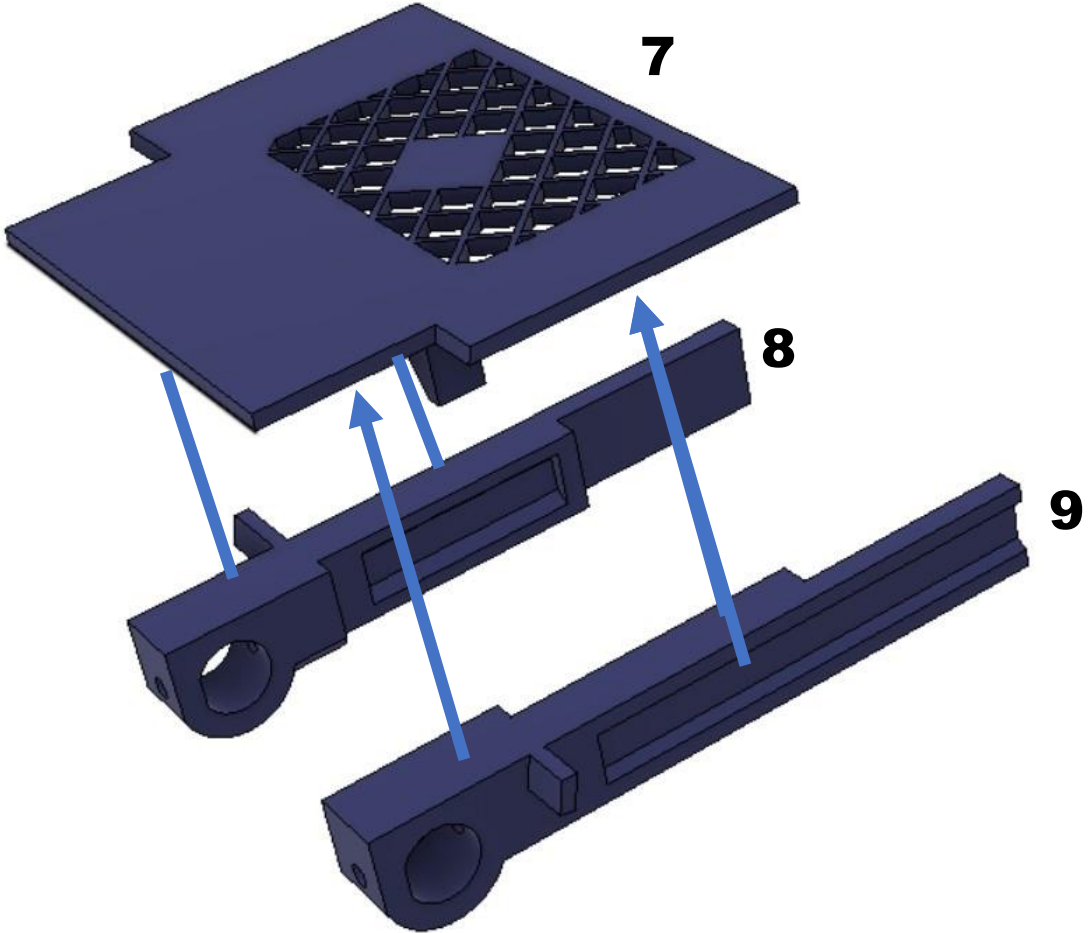
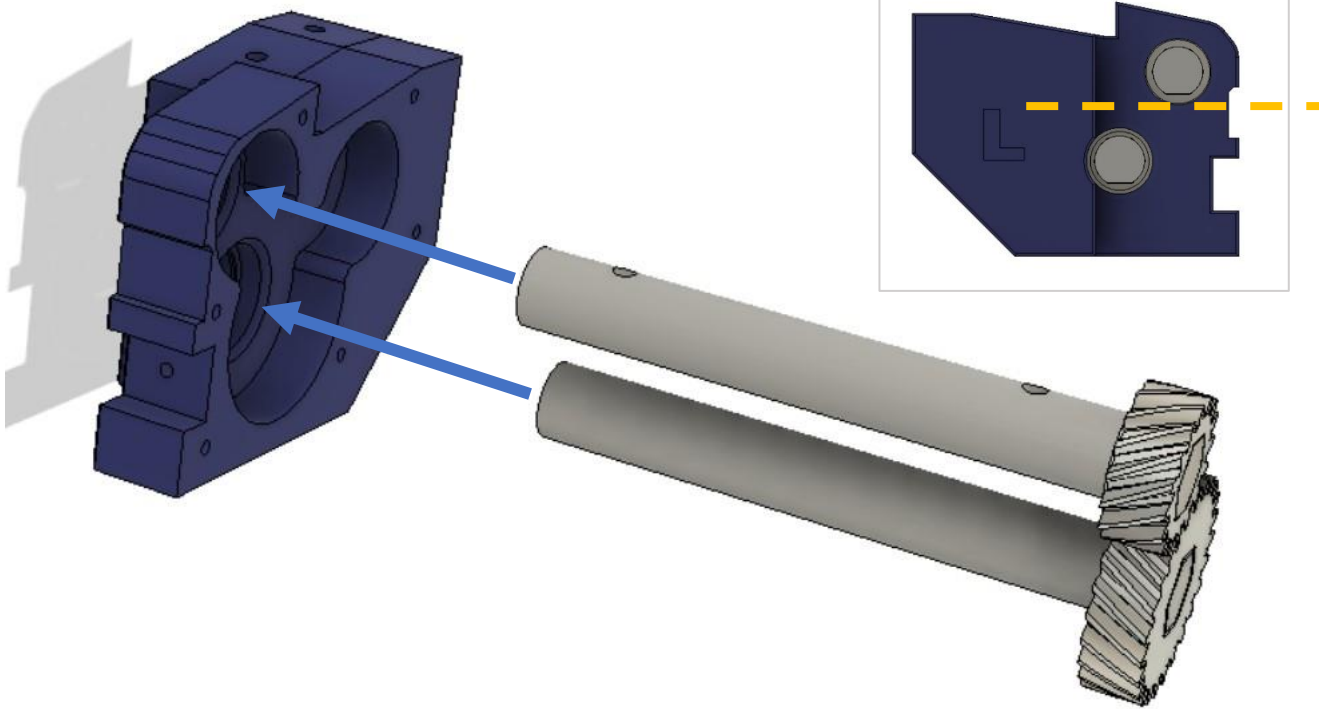


# RampsL

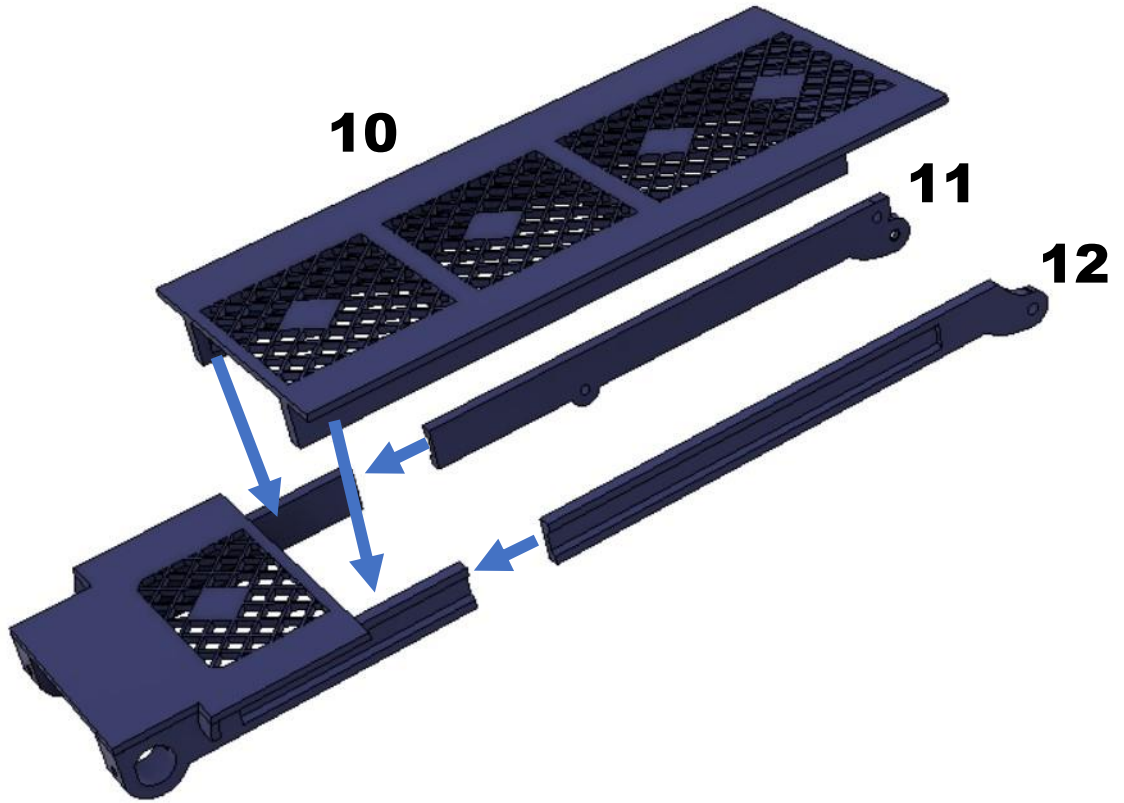


Ložiska 2X 10x15x4mm

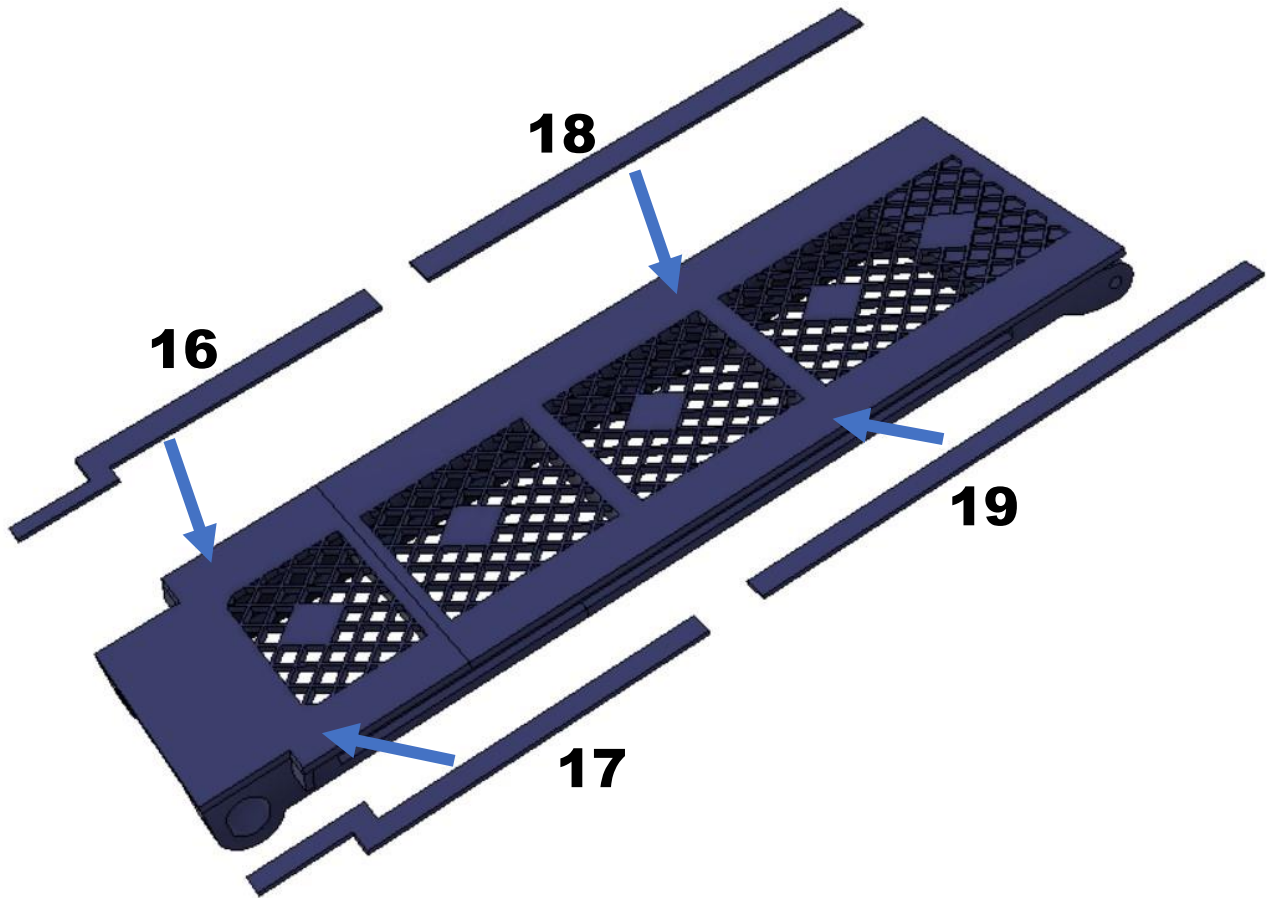
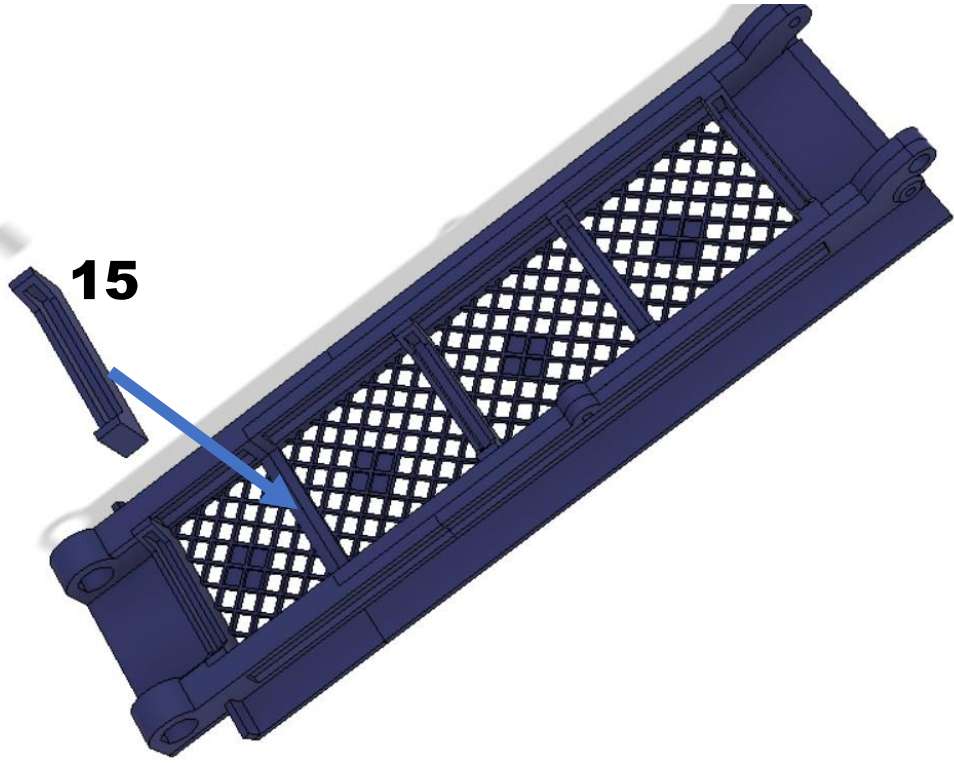


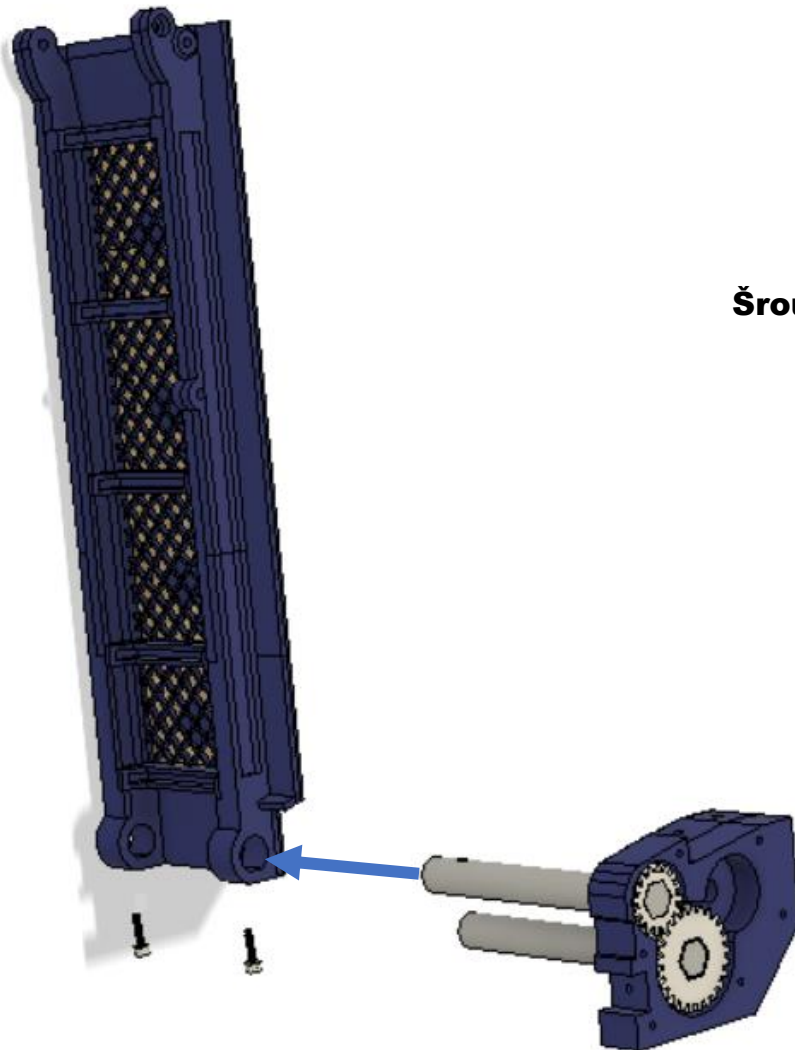
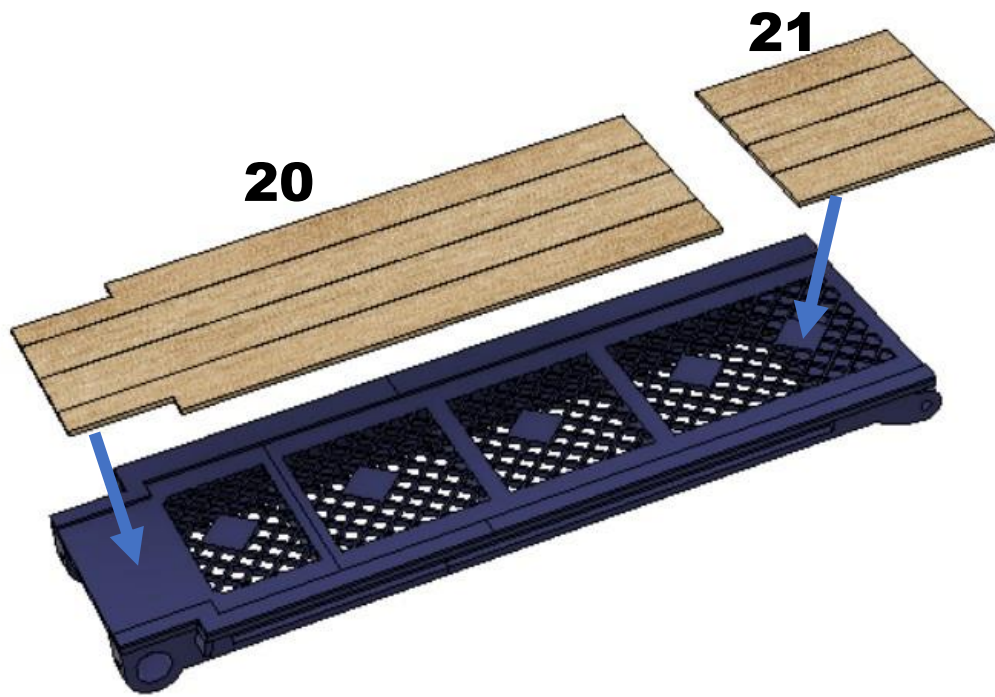




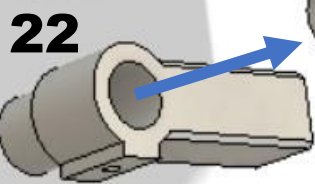








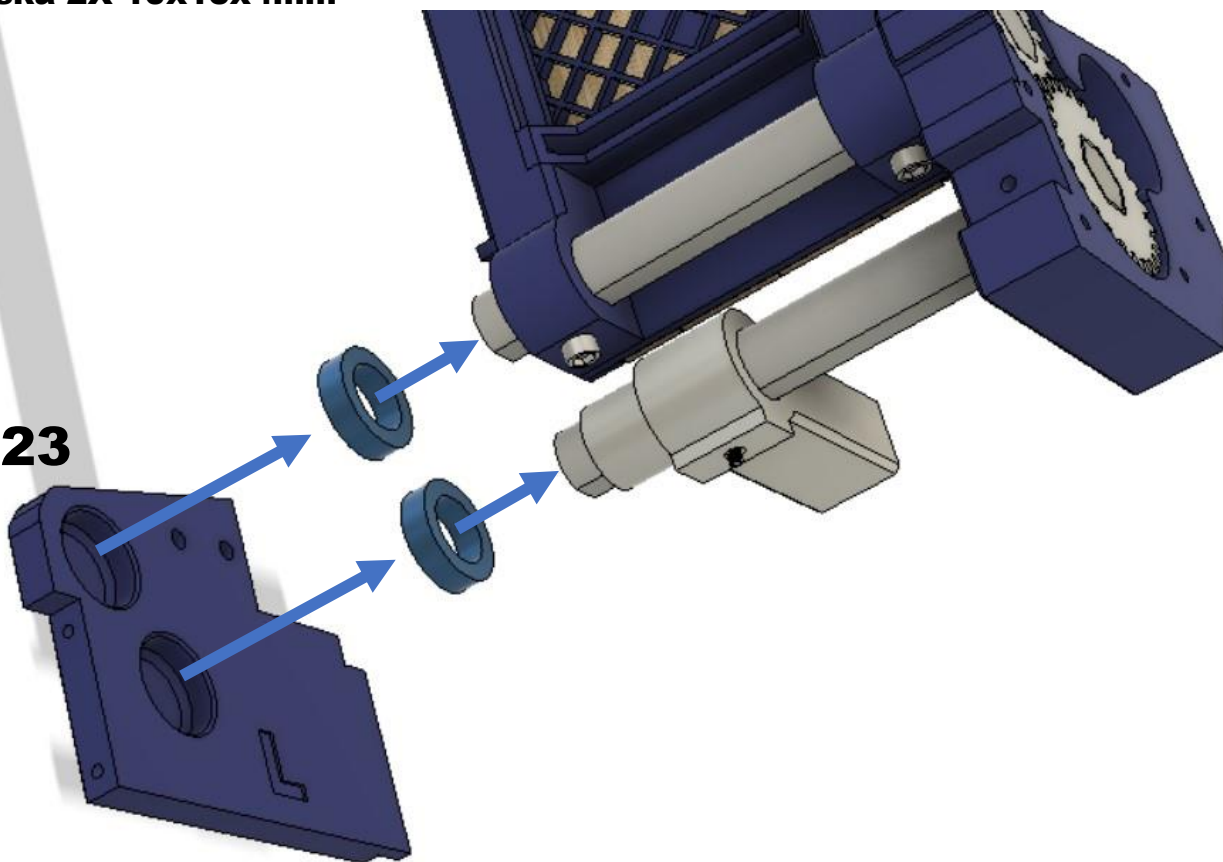
**Červík M3x5mm**



**Správnou polohu nohy doladíme nakonec.**

**Ložiska 2X 10x15x4mm**

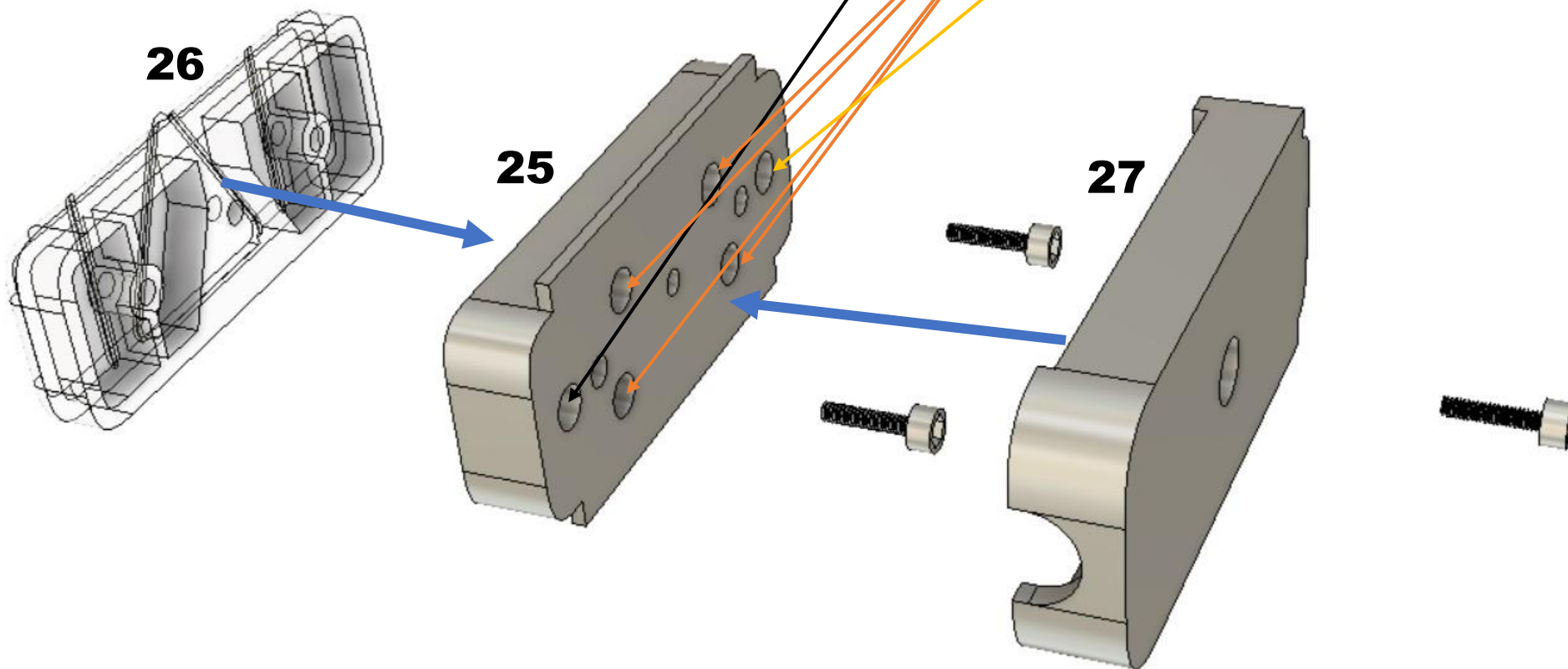
**23**



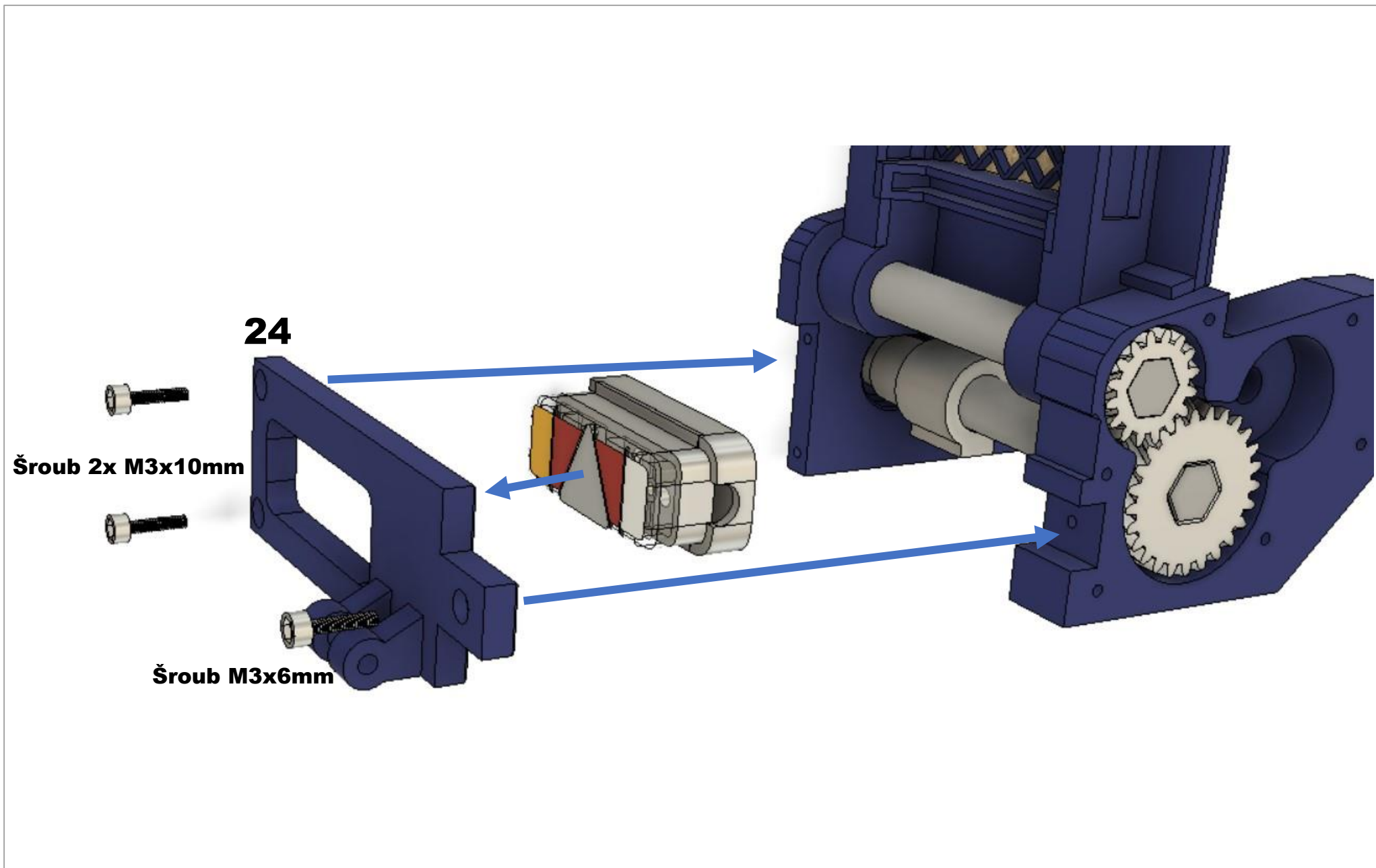
**Šroub 3x M3x6mm**

**Vložte LED 3mm**

**bílá červená žlutá**

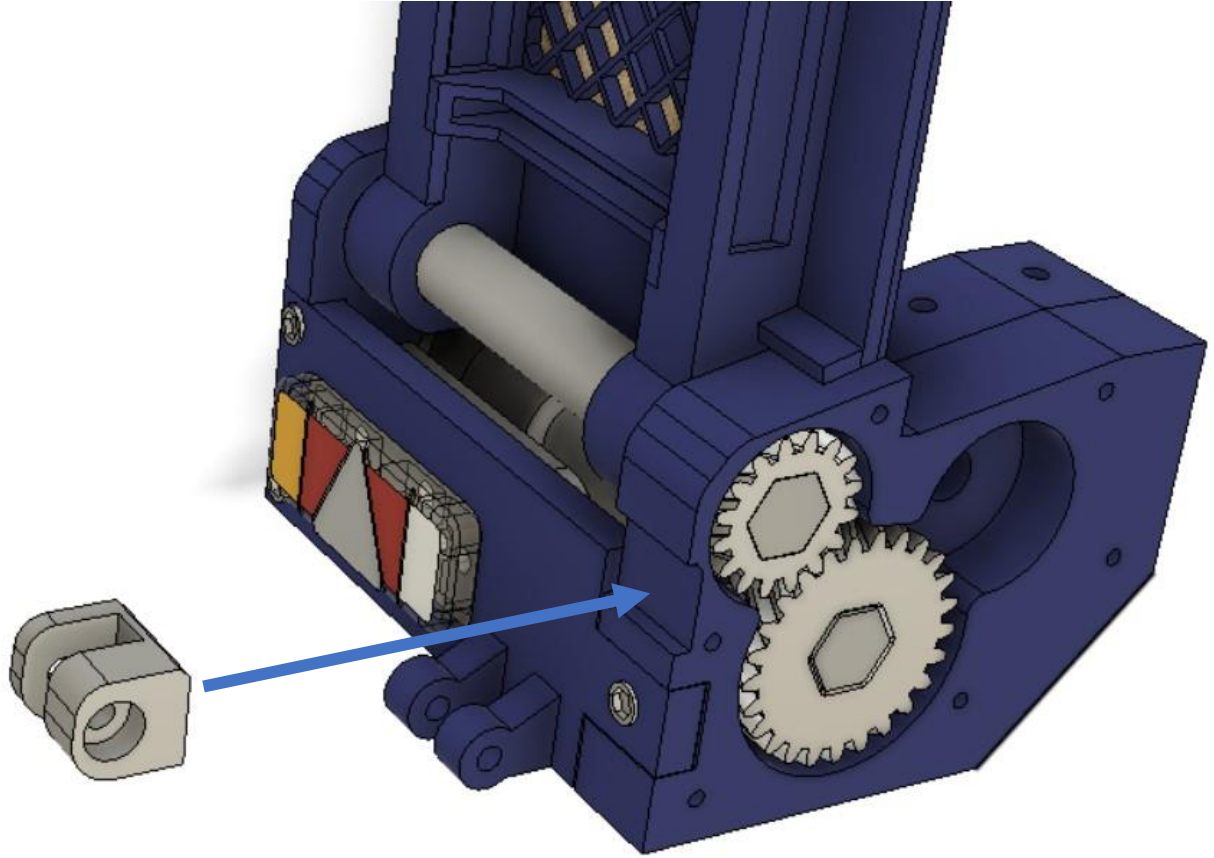


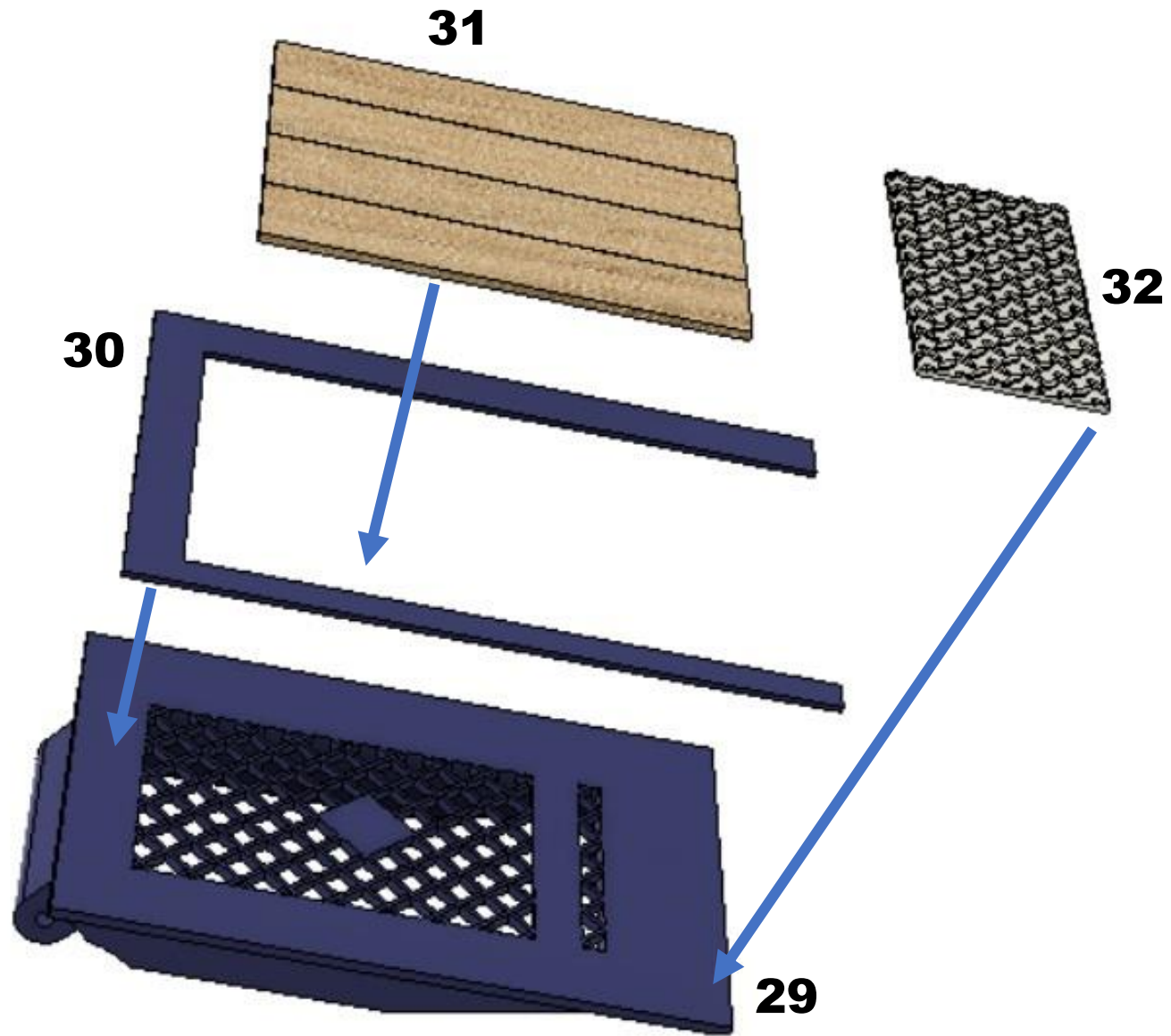




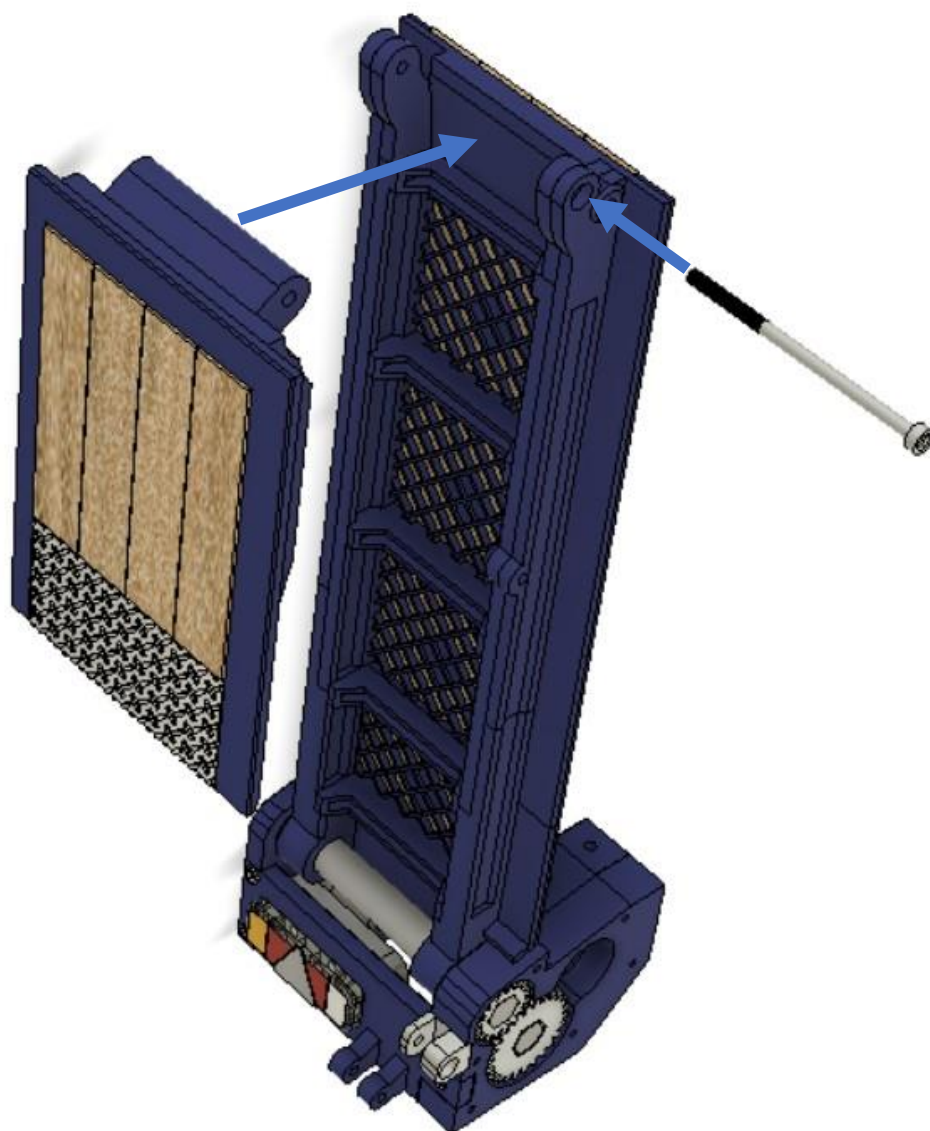


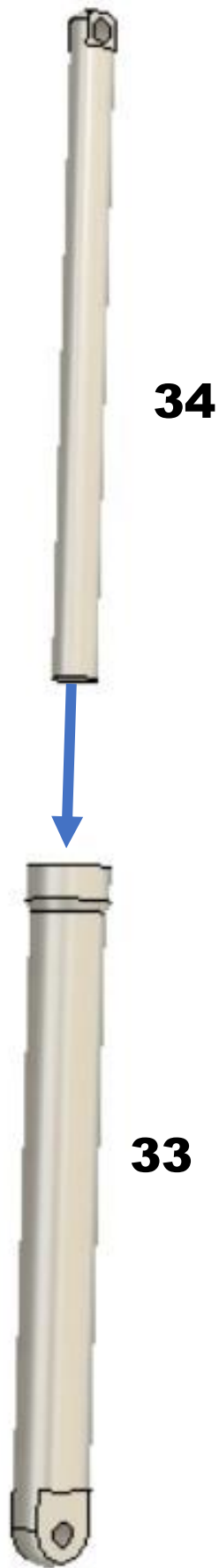
**28**





## Šroub M3x60mm





**34**

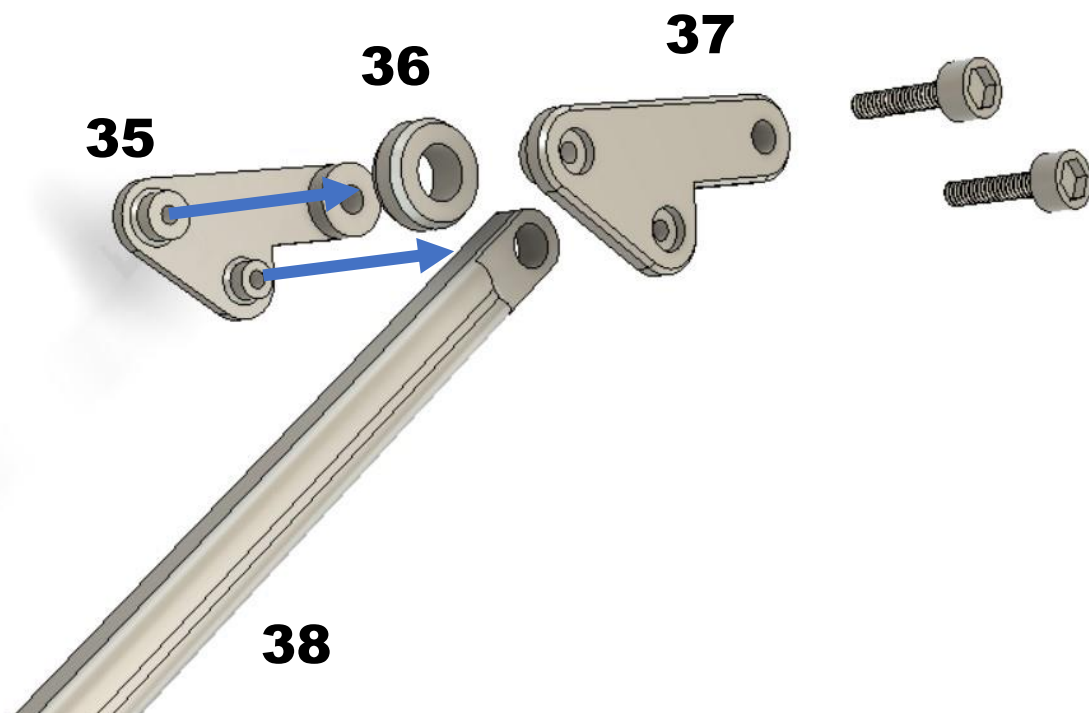
**33**

**Šroub M3x15mm**



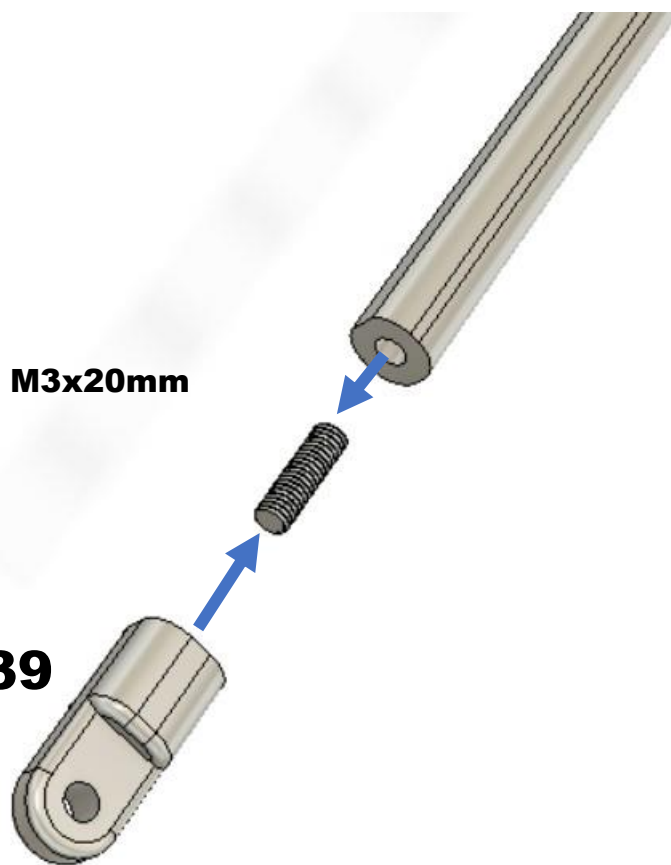


**Šroub 2x M2x6mm**

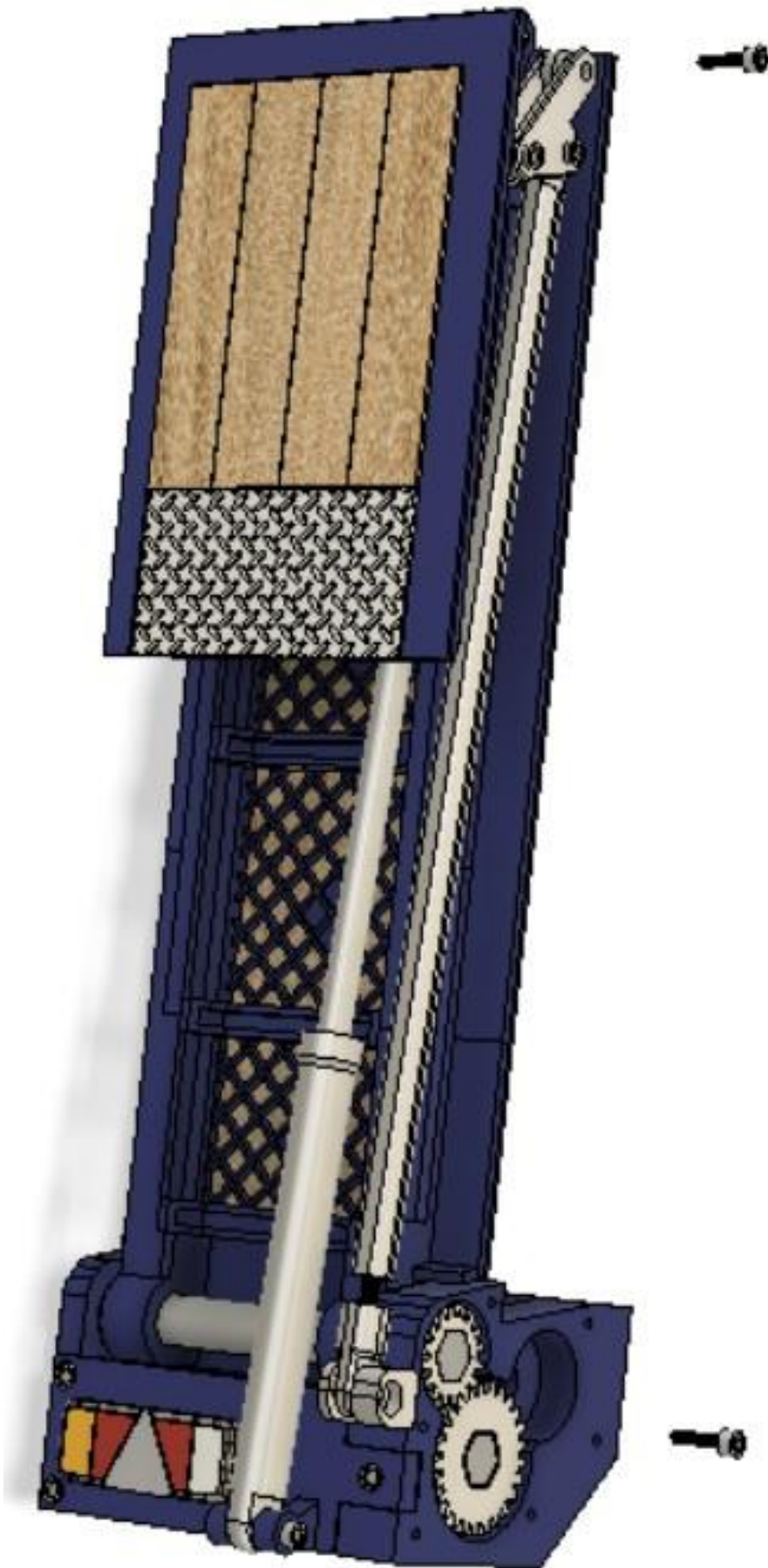


**Červík M3x20mm**

**39**



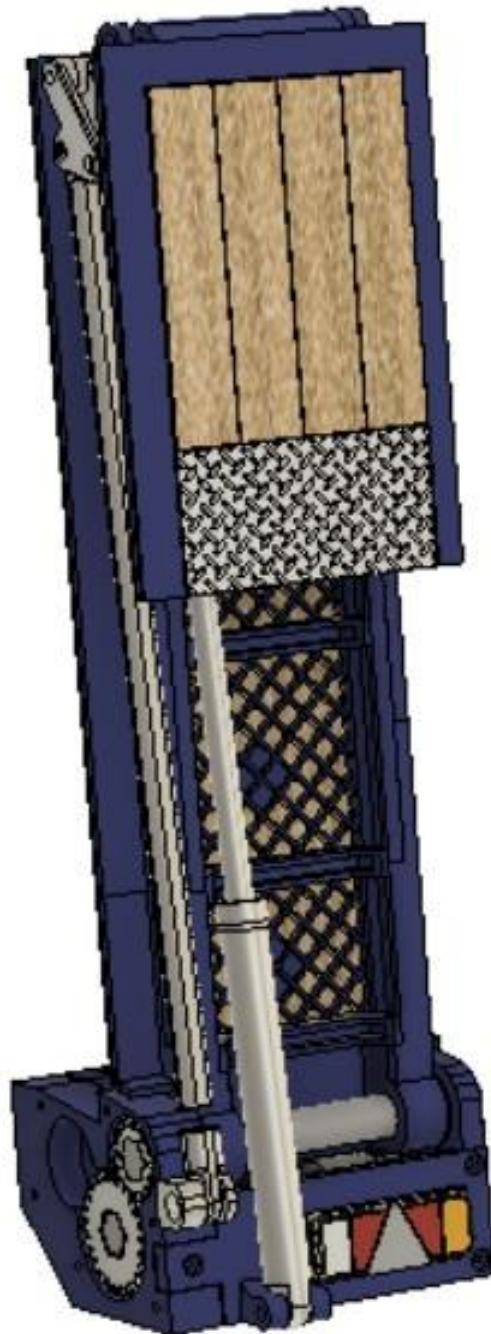
Šroub 2x M3x10mm



# RampsR

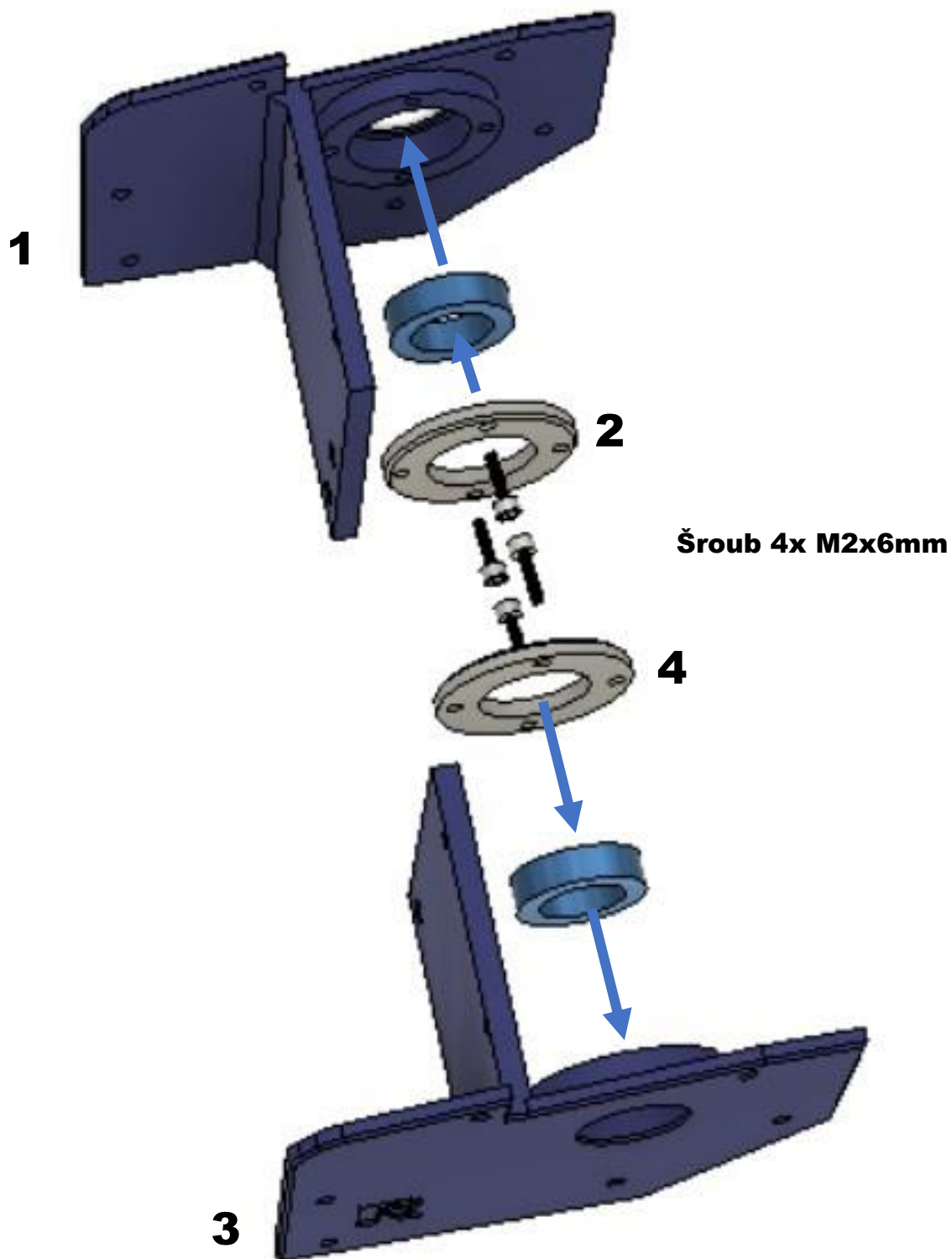
**Pro pravou strnu postupujte stejně. Použijte díly ze složky „RampsR“.**

**Číslování dílů se shoduje s „RampsL“.**

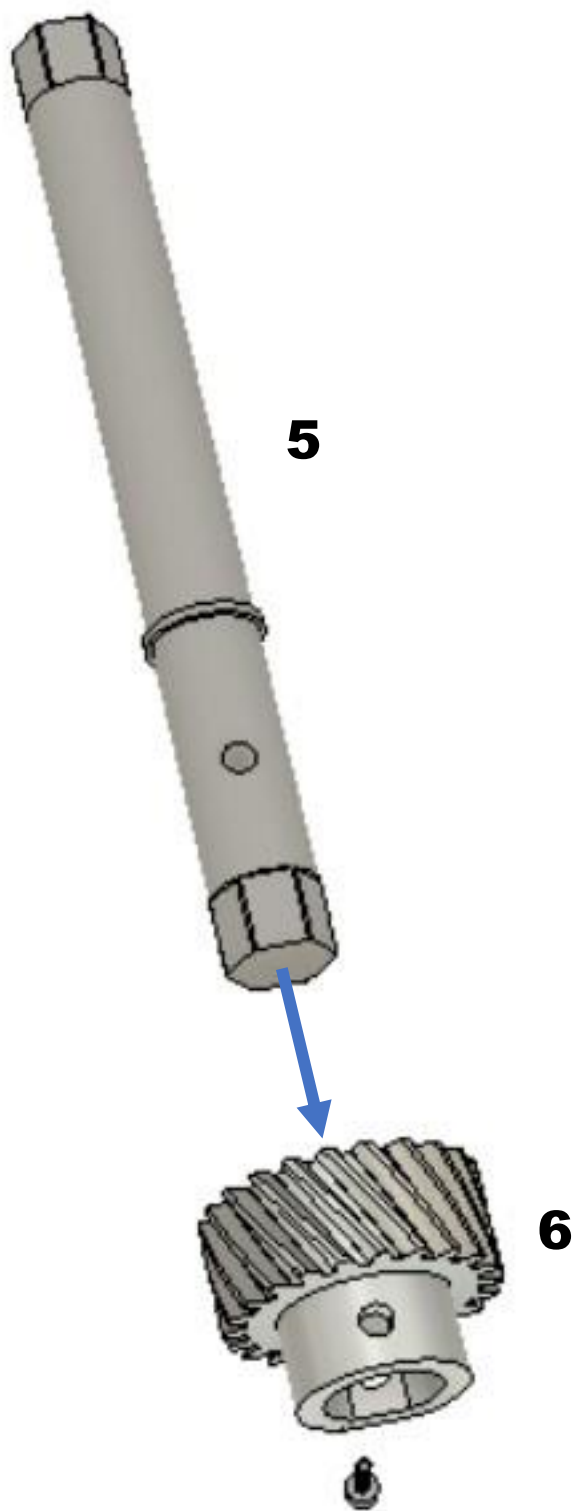


# Ramps

Ložiska 2X 10x15x4mm



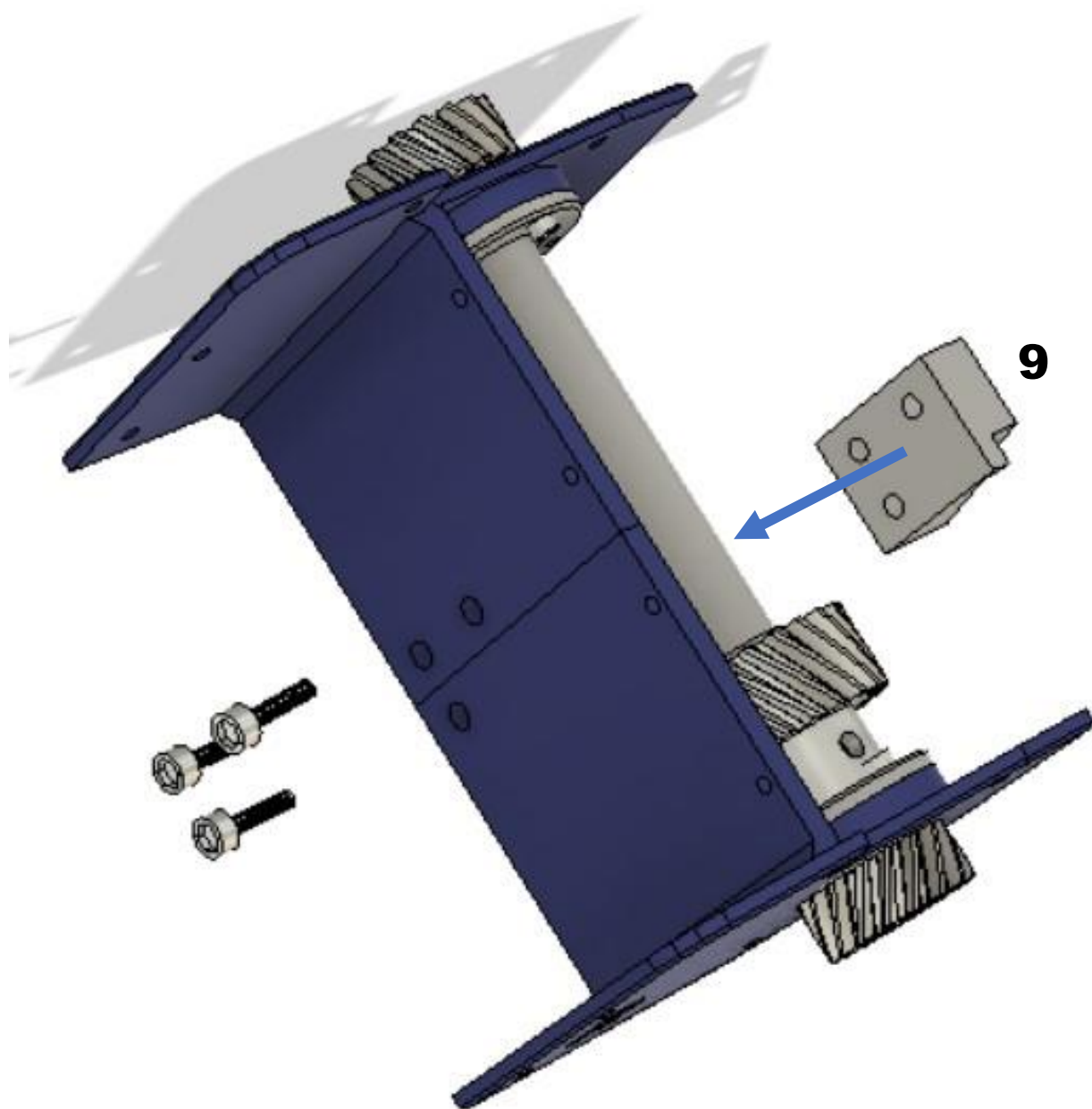
**Šroub M3x15mm**







**Šroub 3x M3x6mm**



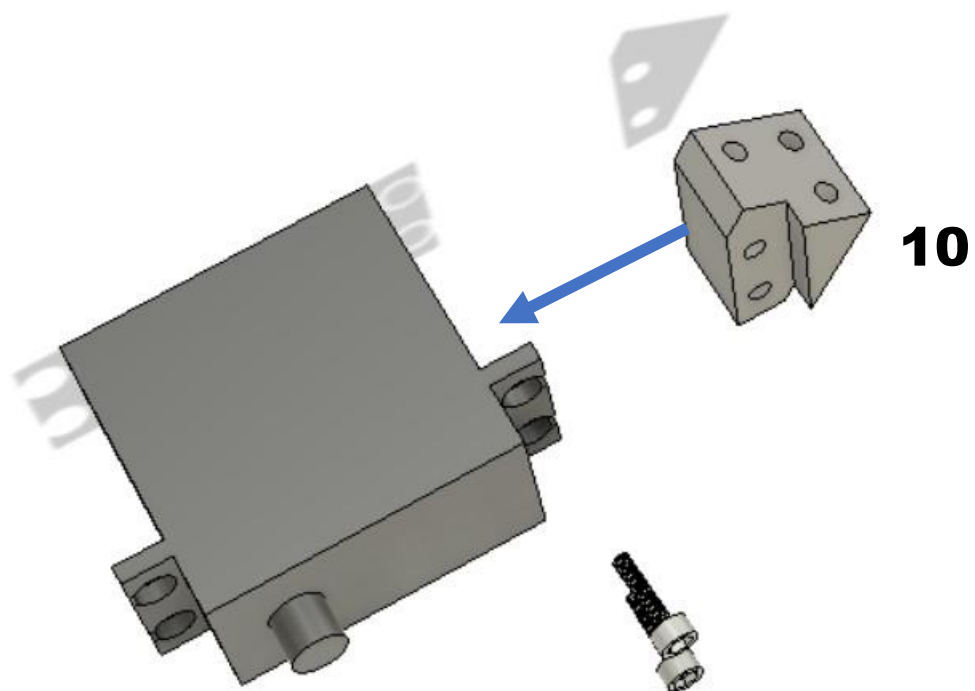
**Pro sklápění nájezdových ramp budete potřebovat servo 360 stupňů.  
Můžete si servo koupit anebo si ho můžete upravit pomocí dvou rezistorů  
2k7 ohmu.**

**Návod na úpravu serva:**

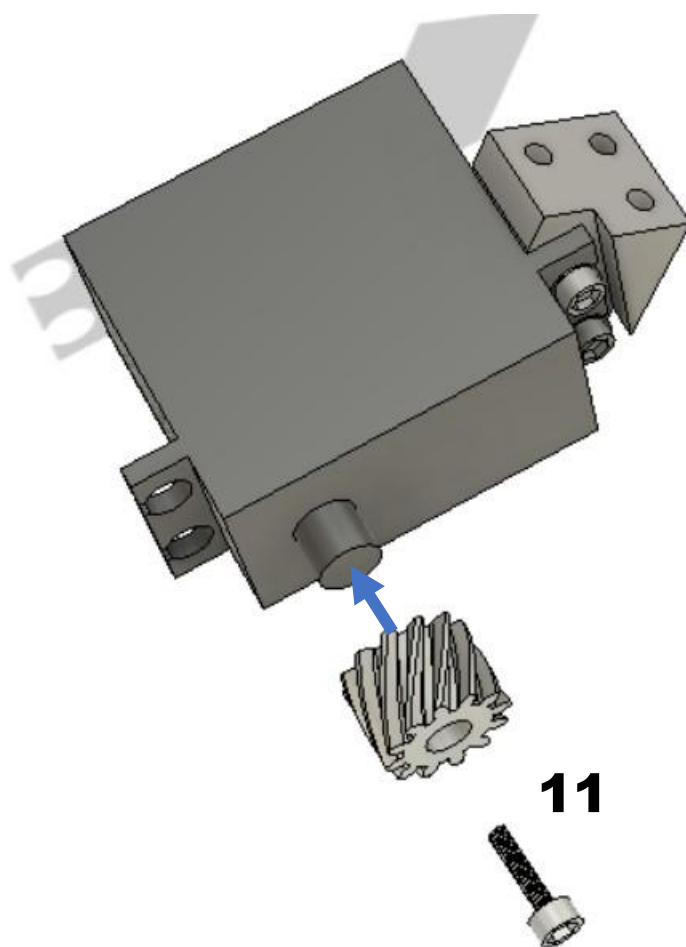
**[Modifying a Servo Motor for Continuous Rotation - YouTube](#)**



**Šroub 2x M3x10mm**



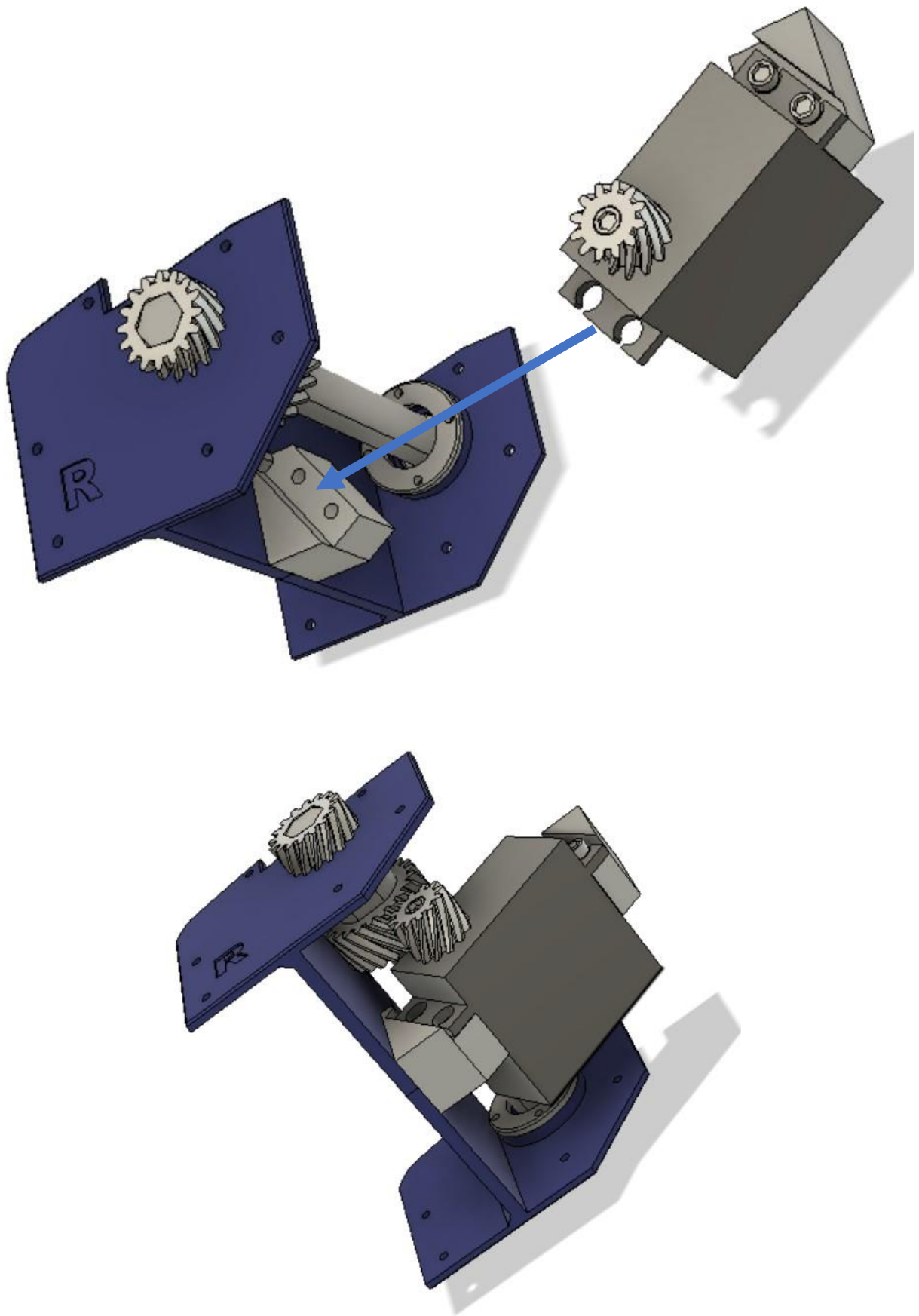
**10**



**11**

**Šroub M3x6mm**

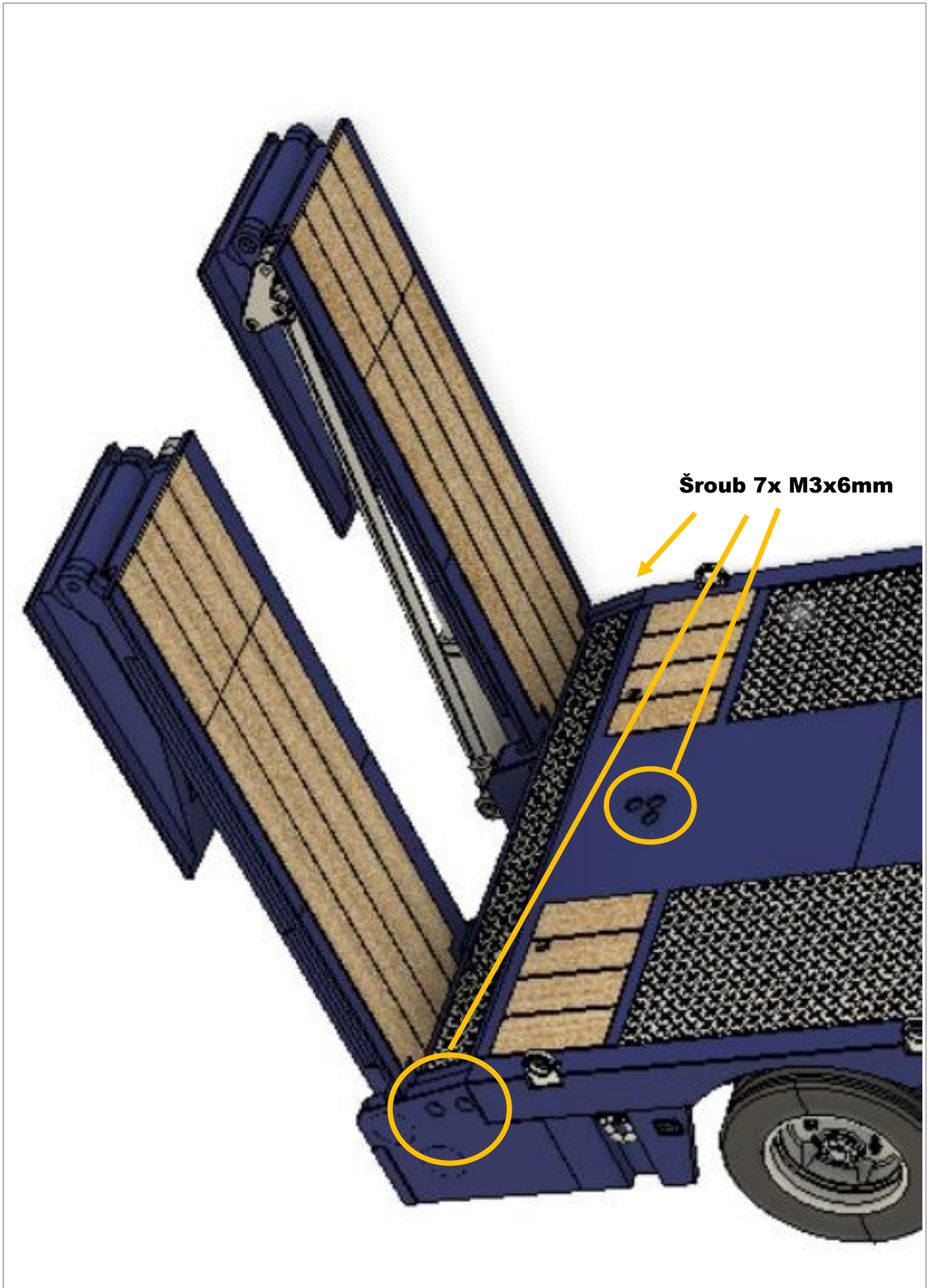
**Šroub 2x M3x10mm**





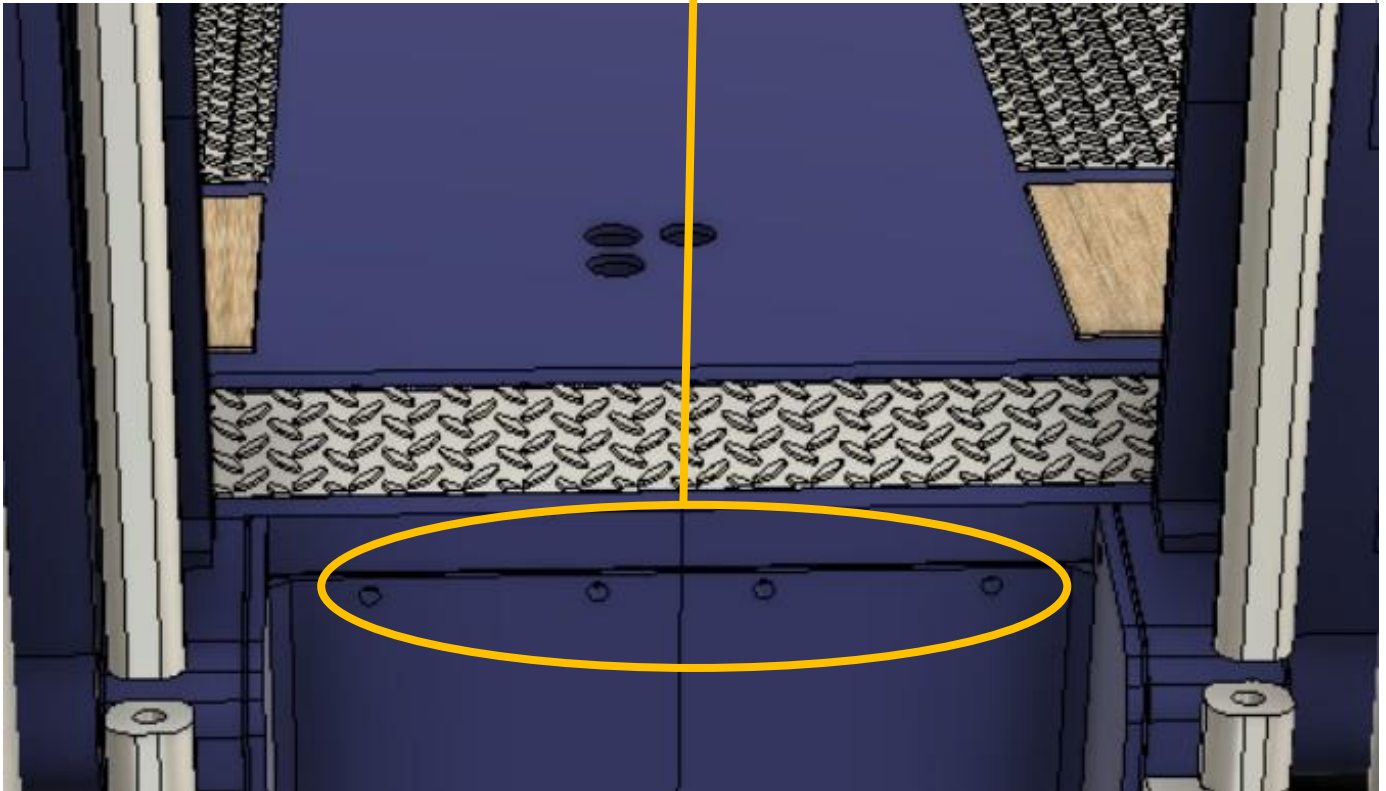
**Šroub 12x M2x6mm**







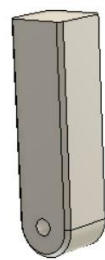
### Šroub 4x M2x10mm



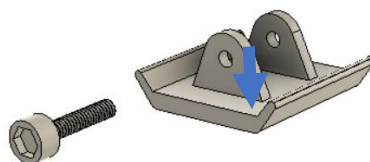
**Nastavte délku táhel. Musí být nastavené přesně jinak nebude fungovat sklápění. Když je táhlo moc dlouhé, nájezdy nepůjdou sklopit. Když je táhlo moc krátké, kratší díly nájezdů při sklopení nedolehnu. Je to otravné ale věnujte tomu dostatek času, předejte tak případným problémům.**



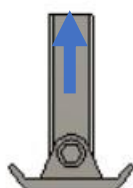
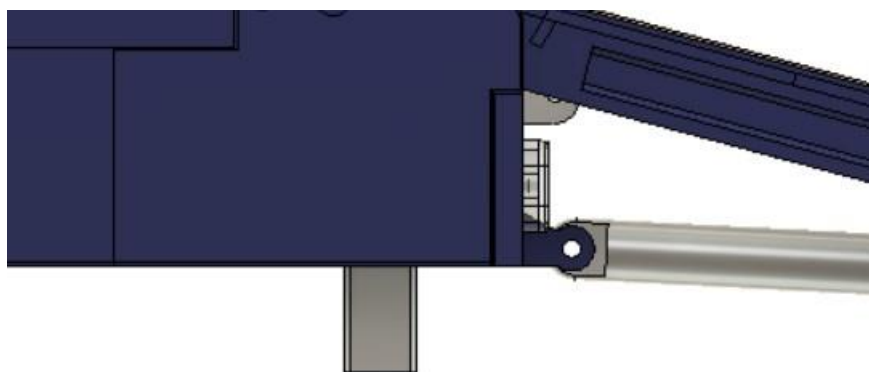
**Šroub M2x10mm**



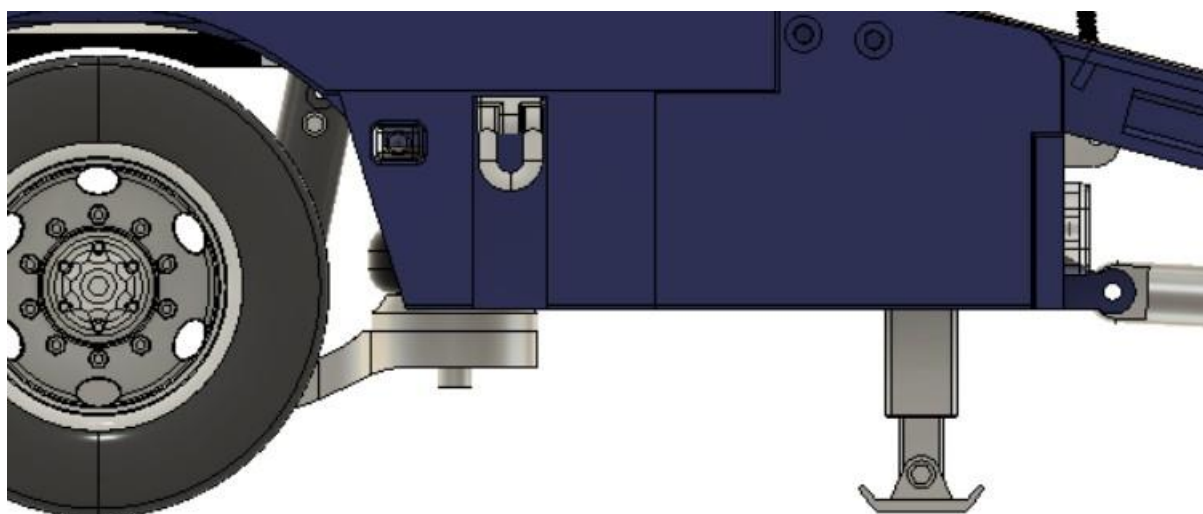
**2x\_12**



**2x\_13**



**Opěrná noha nesmí při sklápění drhnout o zem. Mezi nohou a zemí nechte mezeru maximálně 5mm.**

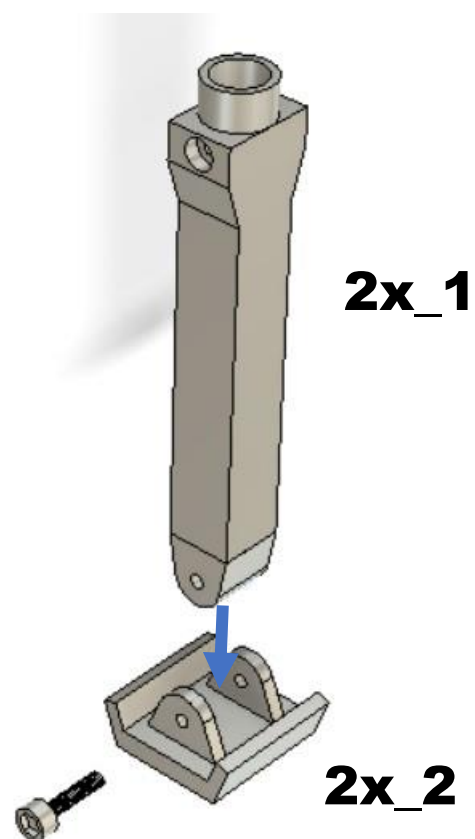


# Feet

**Šroub M2x12mm**

**nebo**

**2x M2x6mm**





## **Pružina**

**Průměr: max 6,5mm**

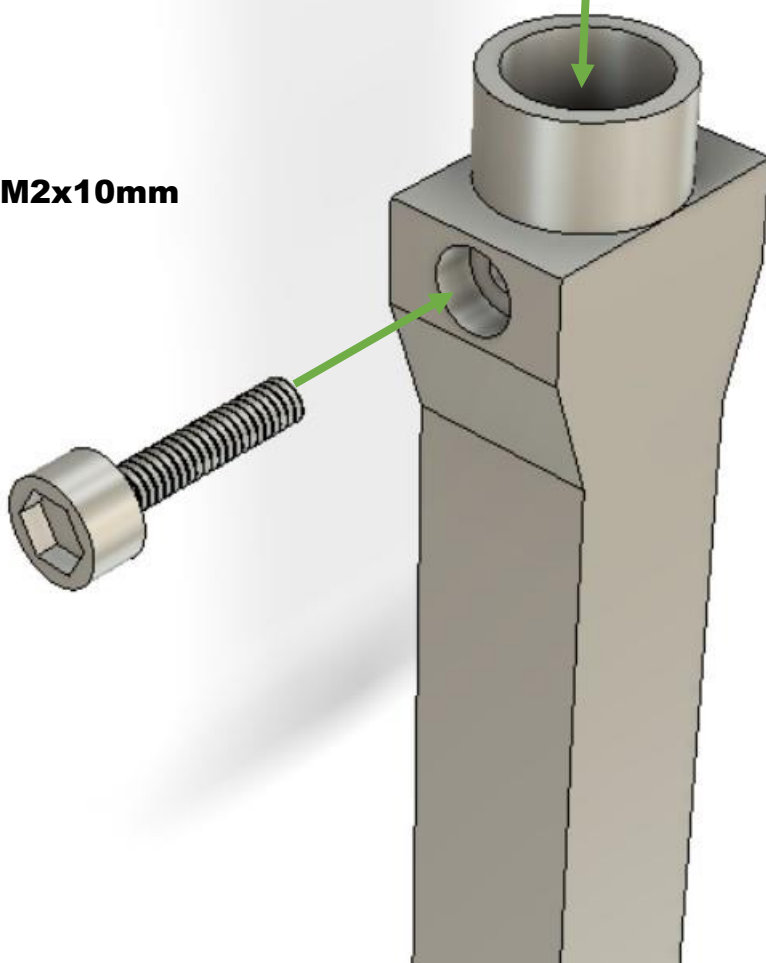
**Délka: max 25mm**

**Průměr drátu: cca 0,7-  
1mm**

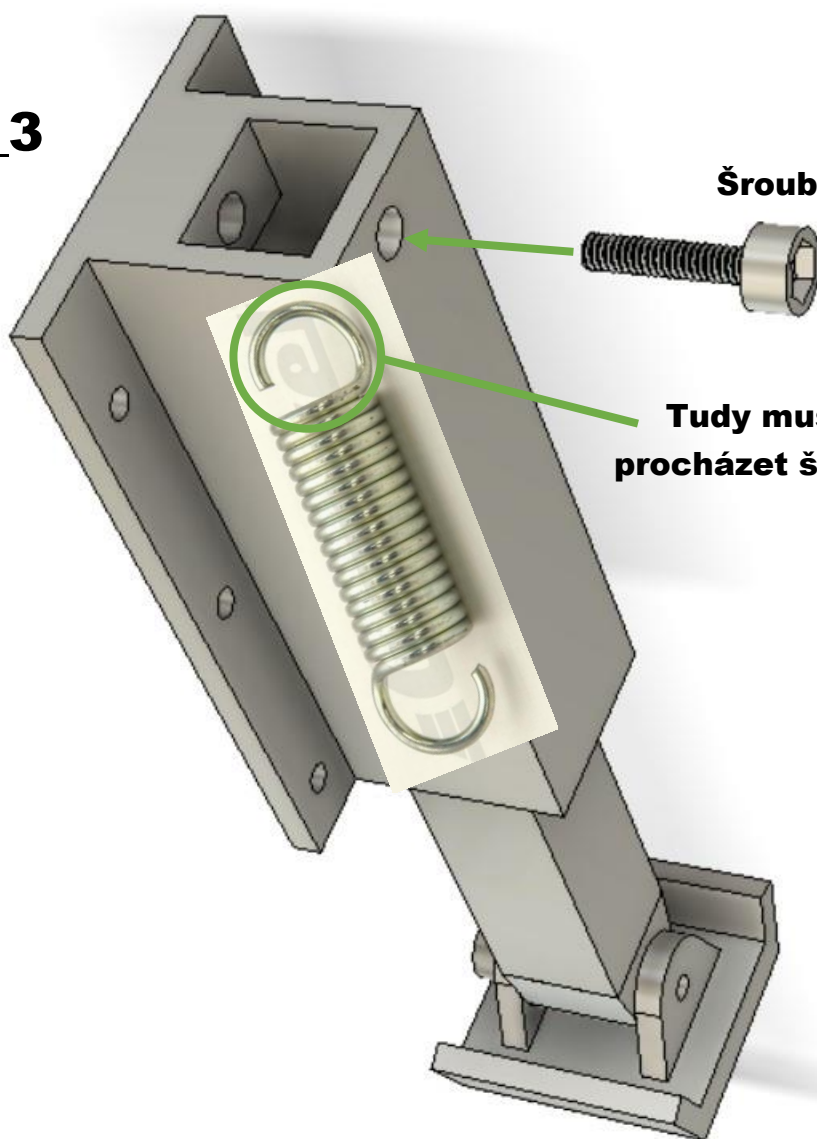


**Tudy musí  
procházet šroub**

**Šroub M2x10mm**



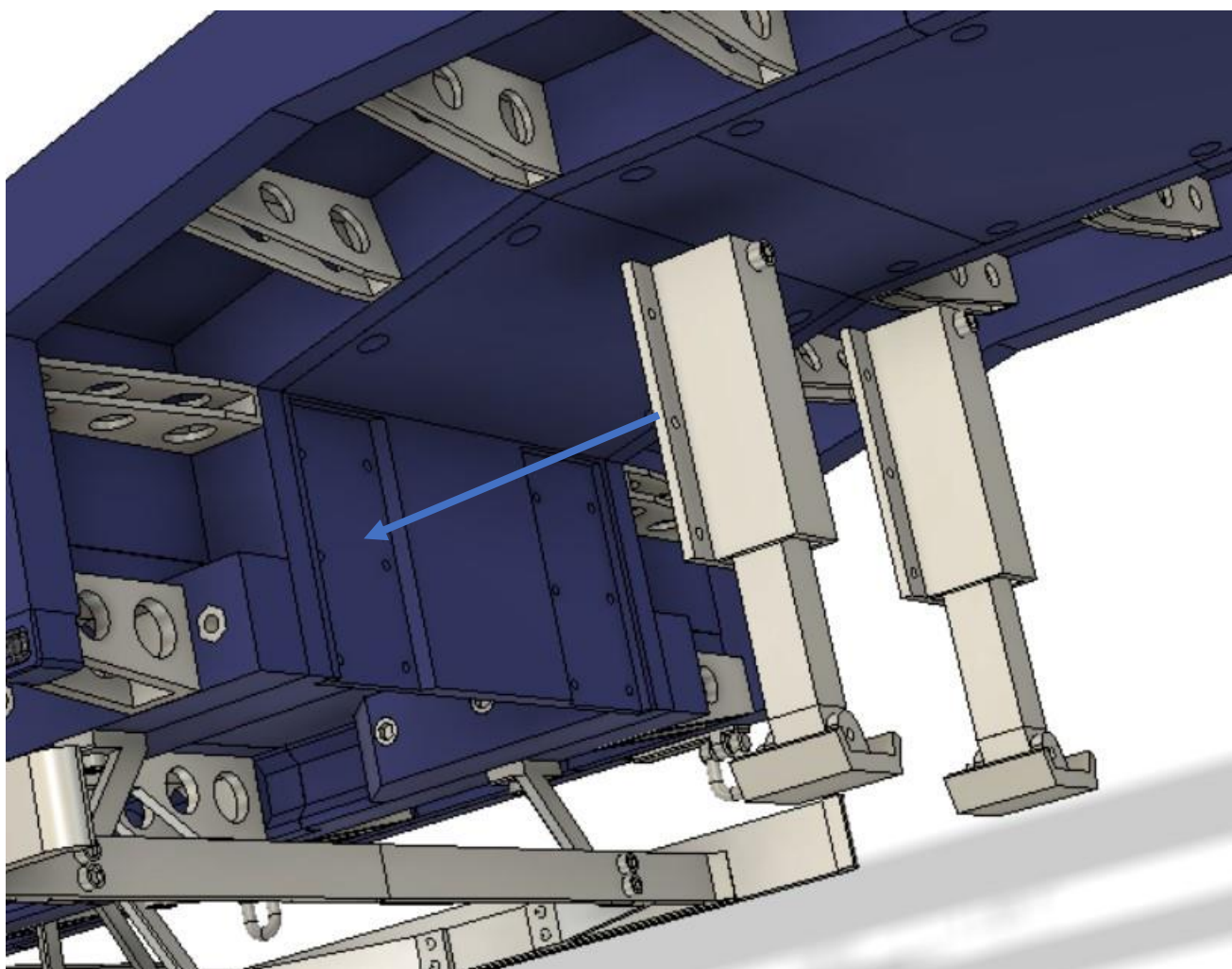
**2x\_3**



**Šroub M3x10mm**

**Tudy musí  
procházet šroub**

## Šroub 12x M2x8mm



### **Funkce:**

**Pro vysunutí nohy vysuňte a pootočte o 90stupňů**

**Pro zasunutí nohy pootočte o 90stupňů a pružiny zatáhnou nohy zpět.**

# A je hotovo!

---

Dodělejte osvětlení

Rozsah pro servo ve vysilačce nastavte na cca 8%. Docílíte tak pomalého chodu serva což ochrání převody.

Užijte si model 😊