

# King Tiger II. Build Guide

3D printed radio controlled model  
of German heavy tank (1943-1945)

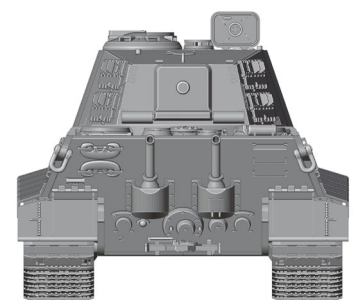
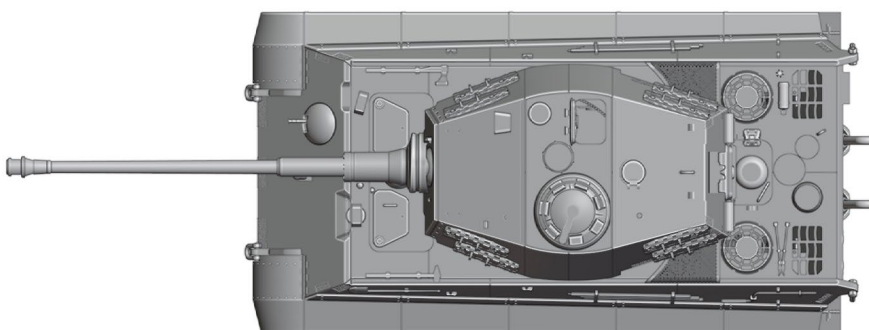
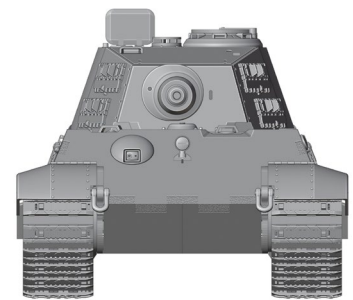
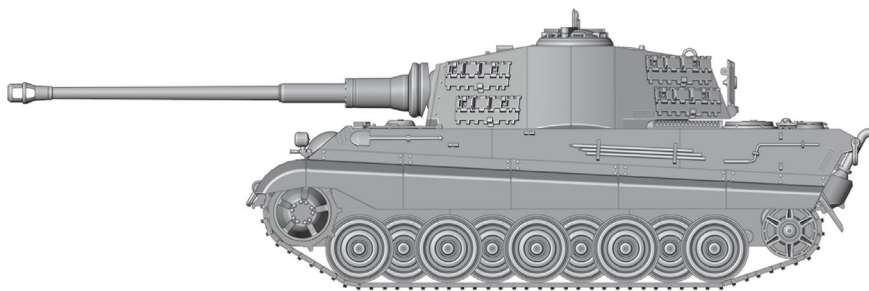
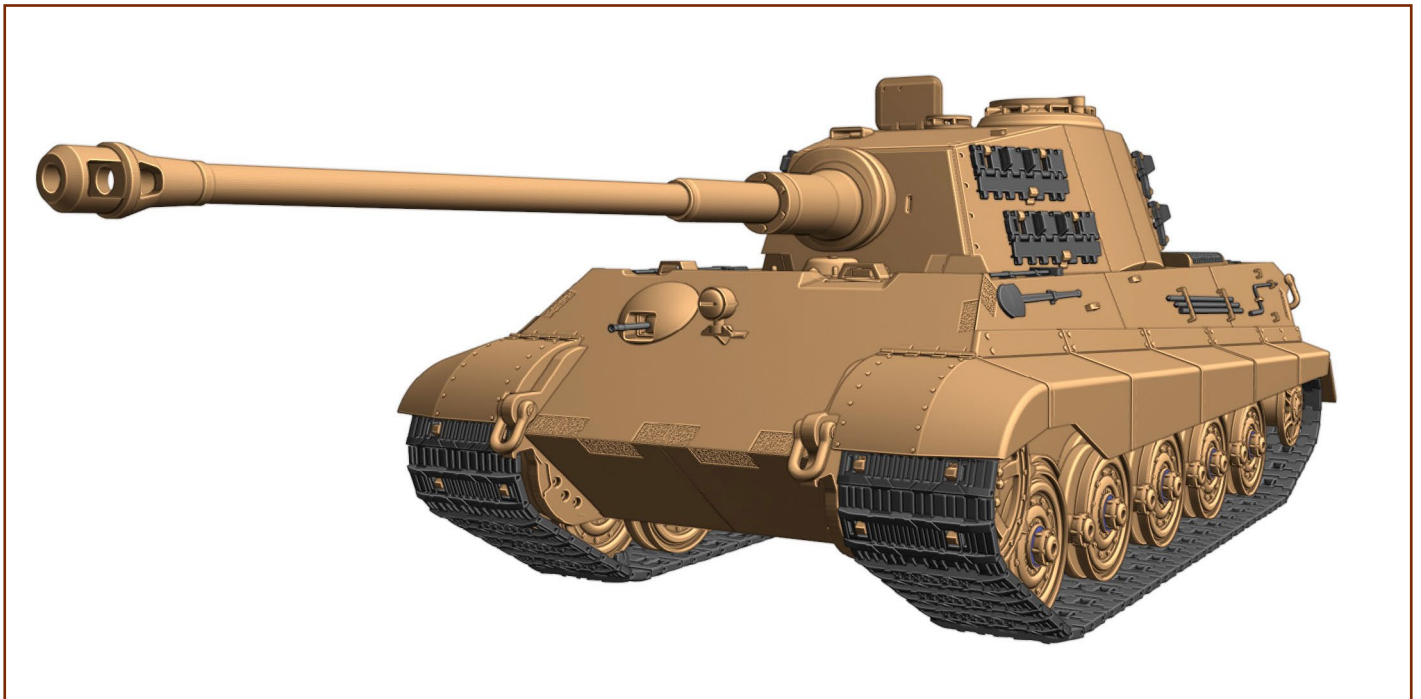
Scale: 1:10

Width: 377 mm

Height: 328 mm

Length: 1017 mm

Weight: 8000 g



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## What you will need:

3D printer with an area of 25x20 cm and 5-6 kg of quality brand PLA  
ball bearings: 10x15x4 (12 pcs), 15x21x4 (44 pcs)  
small tension spring (length can be shortened)  
air chamber of small diameter (3 cm) from a bicycle



brushed motor size 540 (2 pcs)

standard size servo (2 pcs)

ESC for brushed motors 45-60A (2 pcs)

two resistors 2k7 ohm



2S1P Li-Po battery 7,4 V (2 pcs)

M3 screws

M3 nuts (10 pcs)

M3 headless screws (4 pcs)

brass wire 2 mm, length 75 mm - 184 pcs (track connections)

medium CA glue and activator

grease PTFE, colors, varnish, etc.

RC transmitter (OpenTX is the best choice)

## **Recomended print settings:**

**nozzle: 0,4 mm**

**extrusion width: 0,5 mm, for detailed parts 0,4 mm**

**layer height: 0,15 mm**

**perimeters: 2-3**

**infill: 50 % (tooth gears, and stronger parts with 98%)**

**temperature: 220°C HE, 50°C HB**

**printing speed: 80 mm/s, external perimeters 30-40 mm/s**

**Try printing gears with one or two perimeters, there may be a difference.**

**My recommendation is for large parts 3 perimeters, small parts 2 perimeters  
and gears 1 perimeter.**

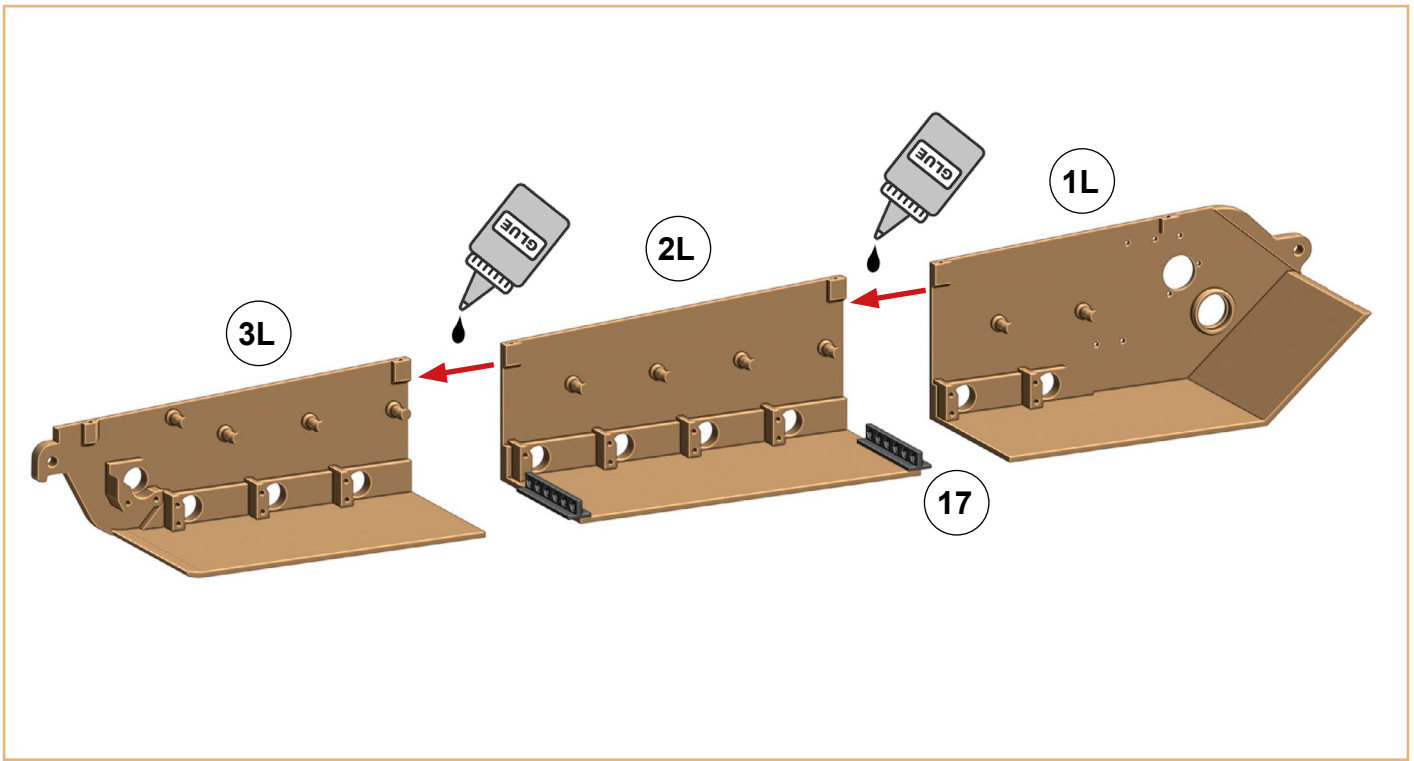
**This is my recommended printer setting,  
however, you can also use your favorite setup.**

**Before gluing the parts, test their seating.  
Use a file to compare the contact surfaces,  
sharp knife or sandpaper.**

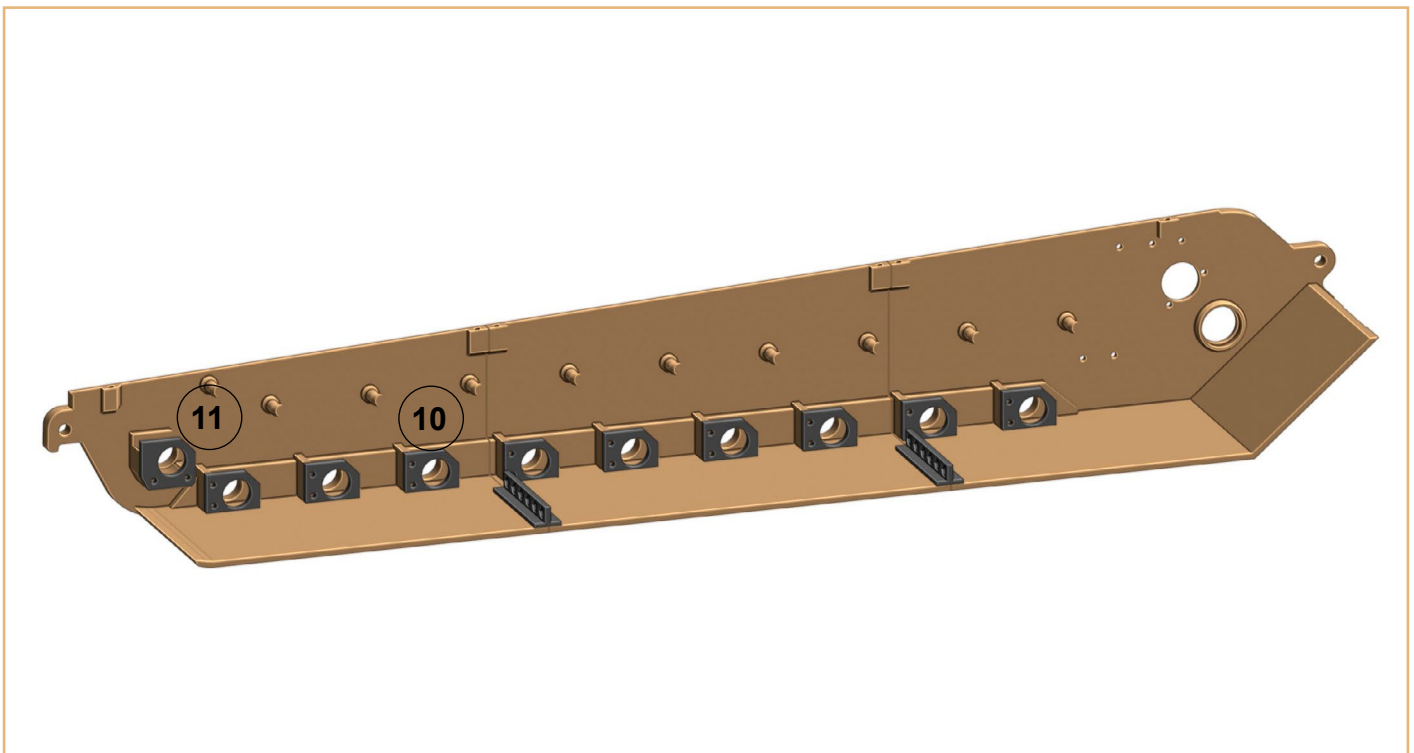
**The most common problem is the “elephant’s foot” –  
an expansion of the print. This must be removed.**

**Also carefully plan the placement of seams,  
especially for tooth gears.**

**Lower hull:**



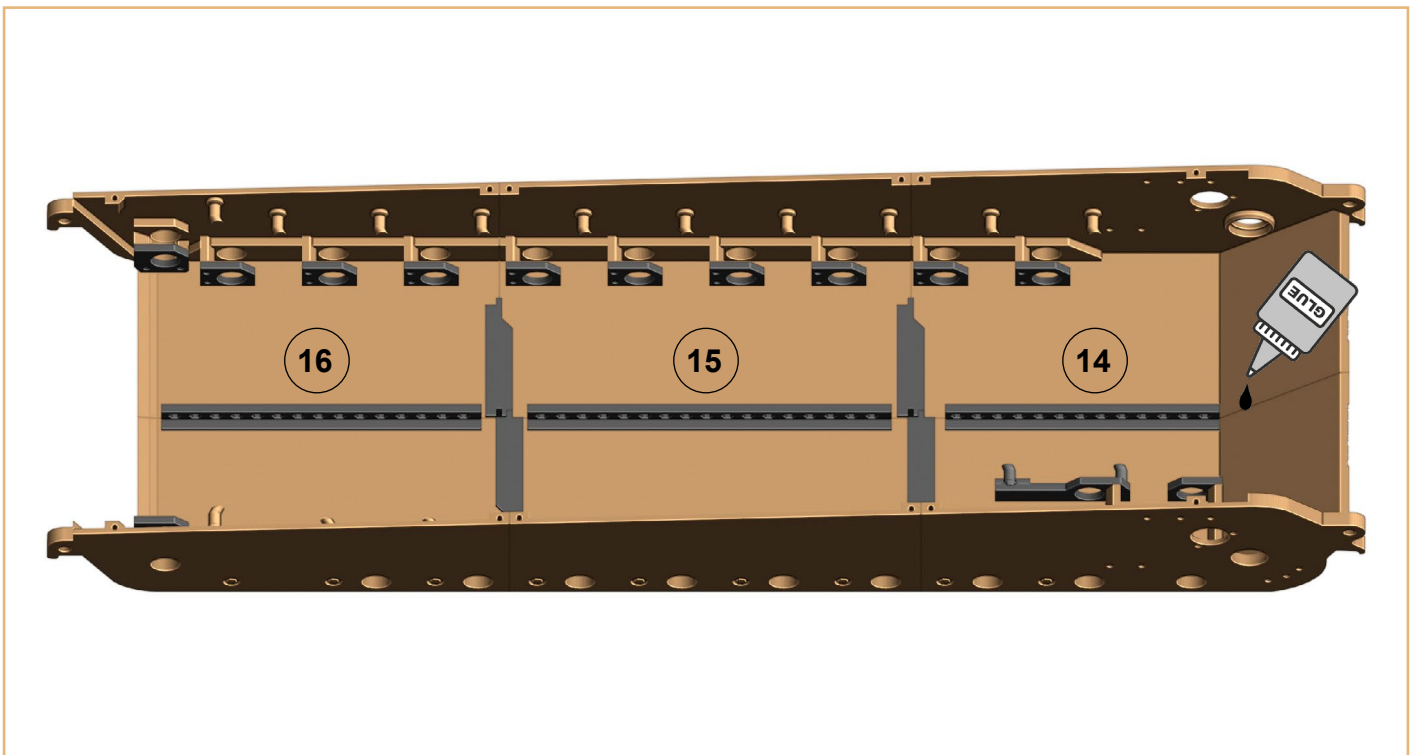
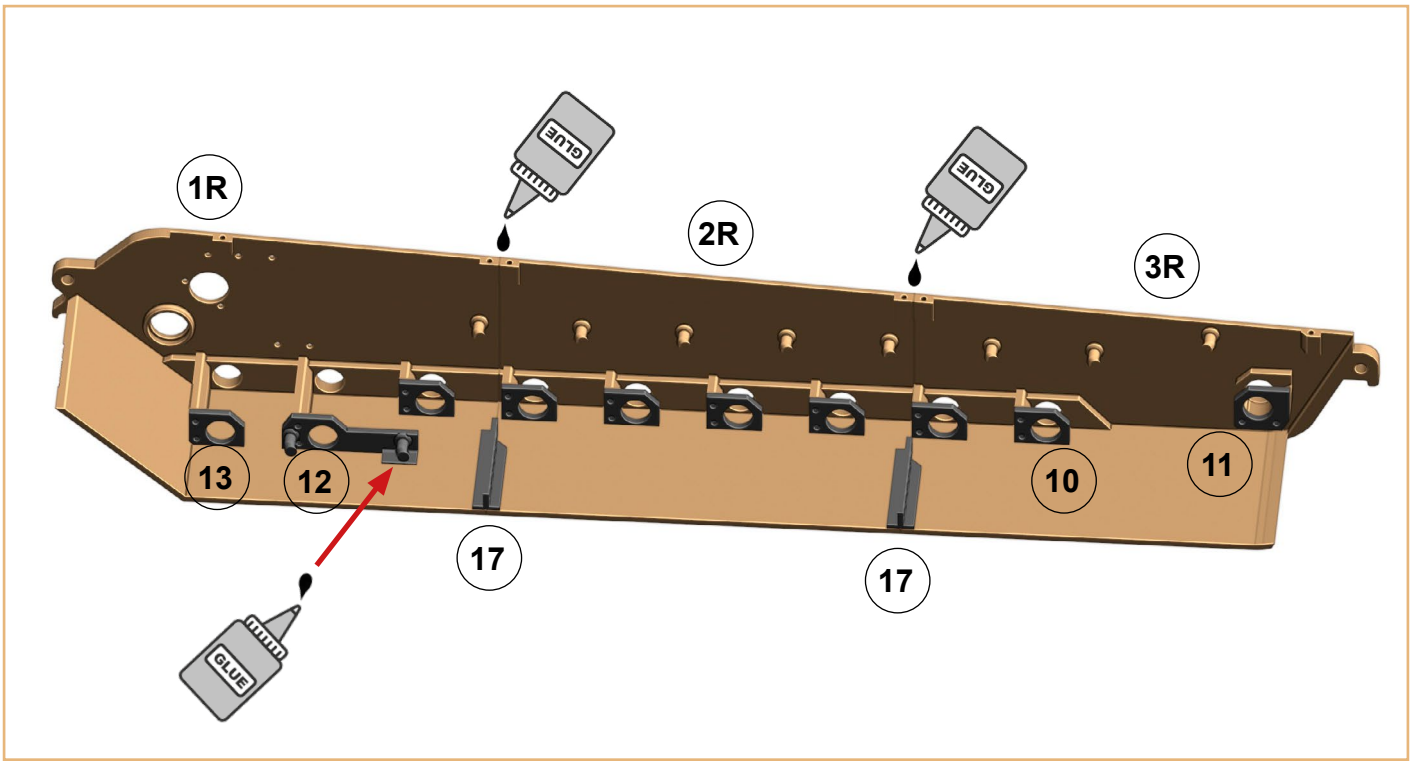
**20x screw M3 8 mm**





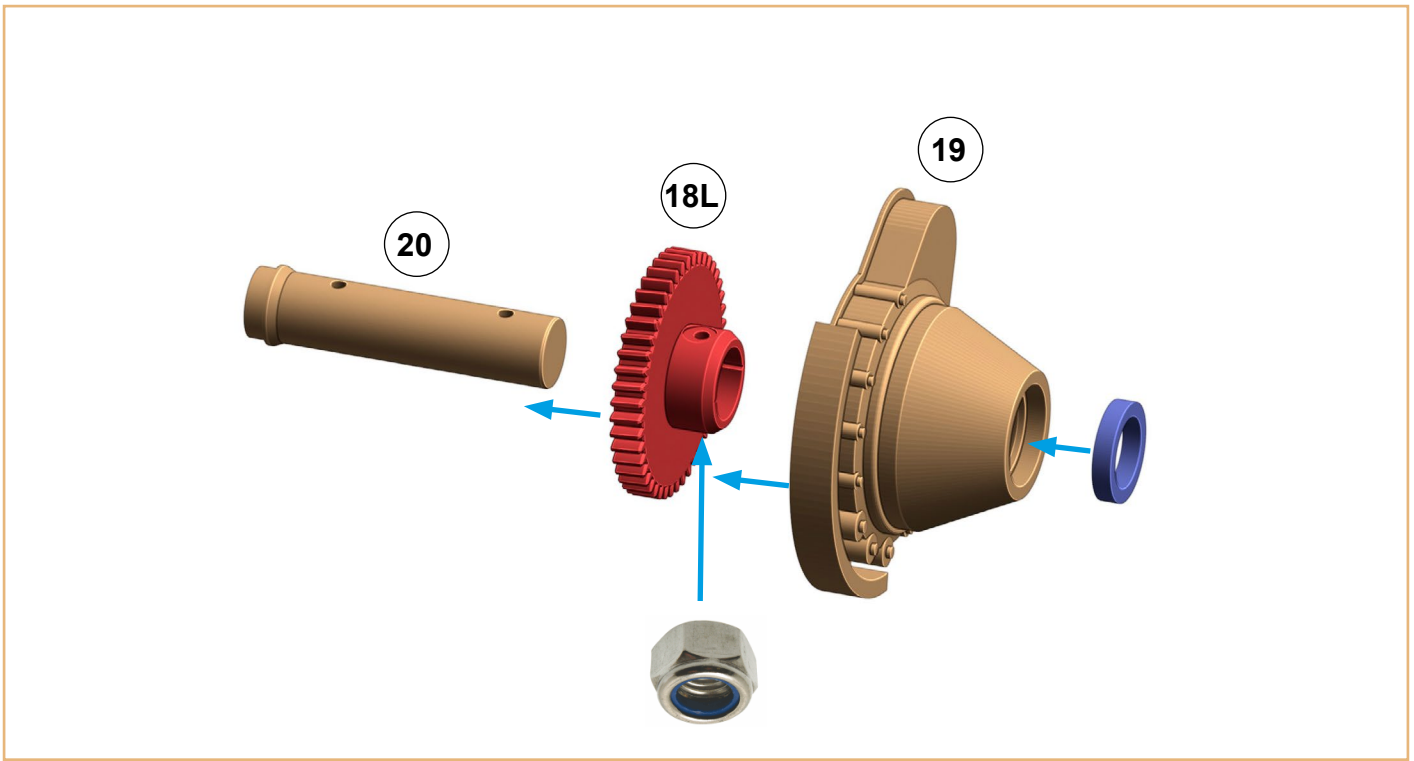
**Lower hull:**

**20x screw M3 8 mm**



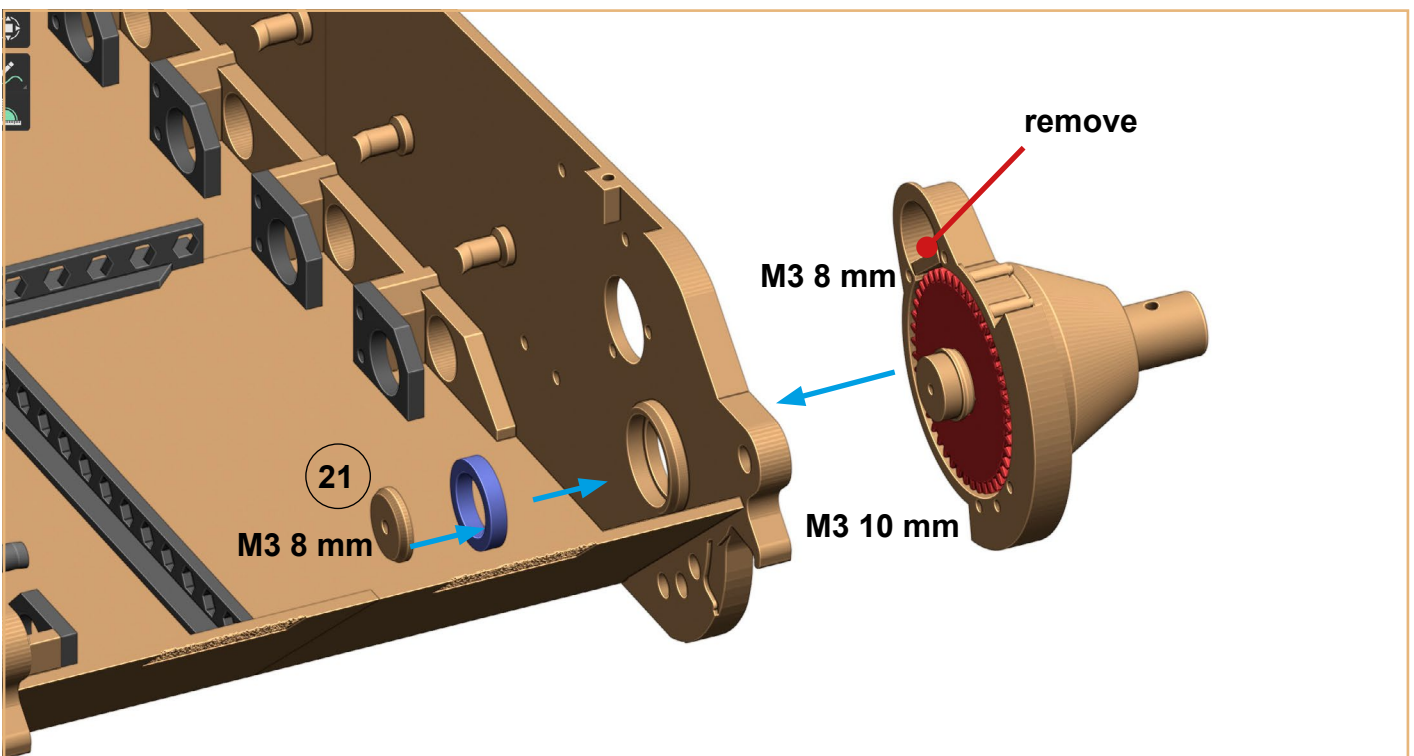
**Lower hull:**

**screw M3 25 mm + self fixing nut M3**



**3x screw M3 8 mm**

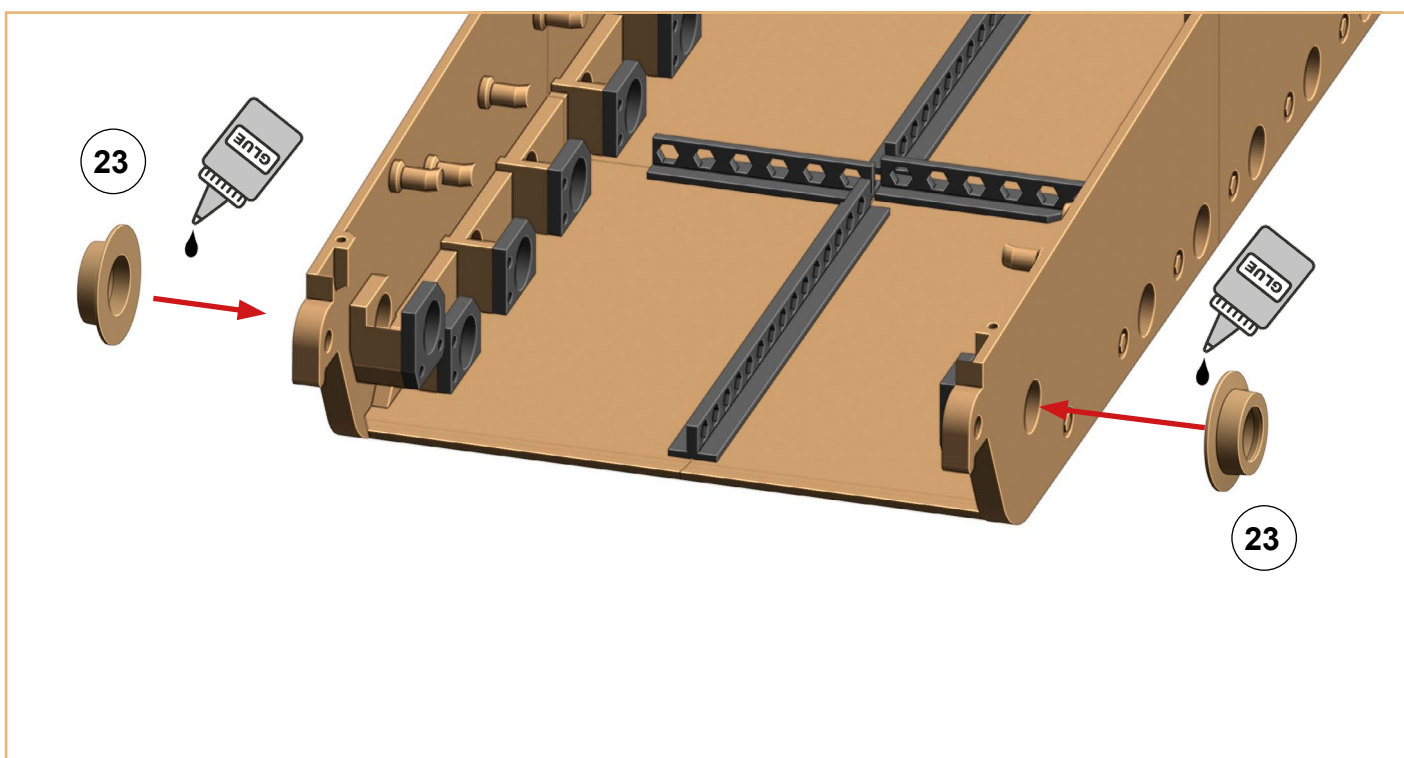
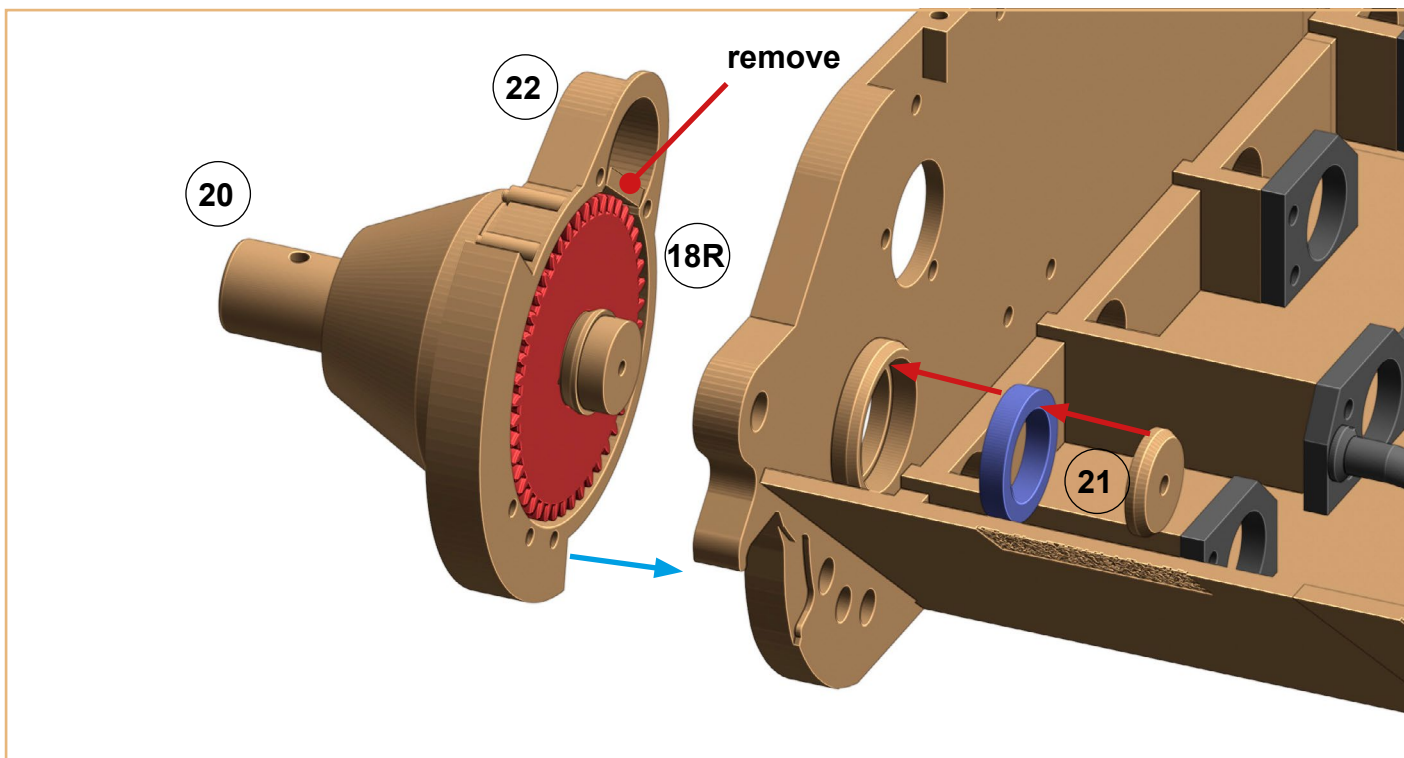
**3x screw M3 10 mm**



**Lower hull:**

**3x screw M3 8 mm**

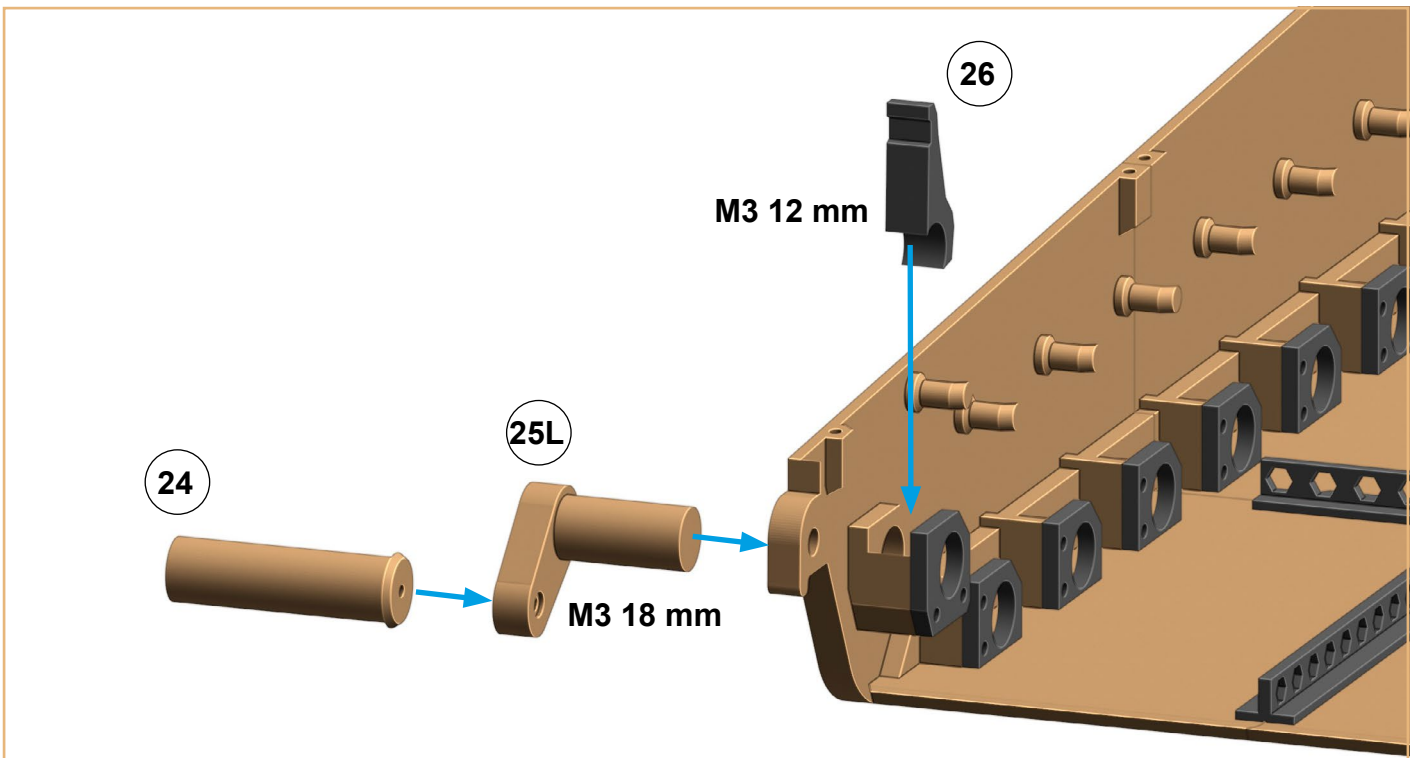
**3x screw M3 10 mm**



**Wheels suspensions:**

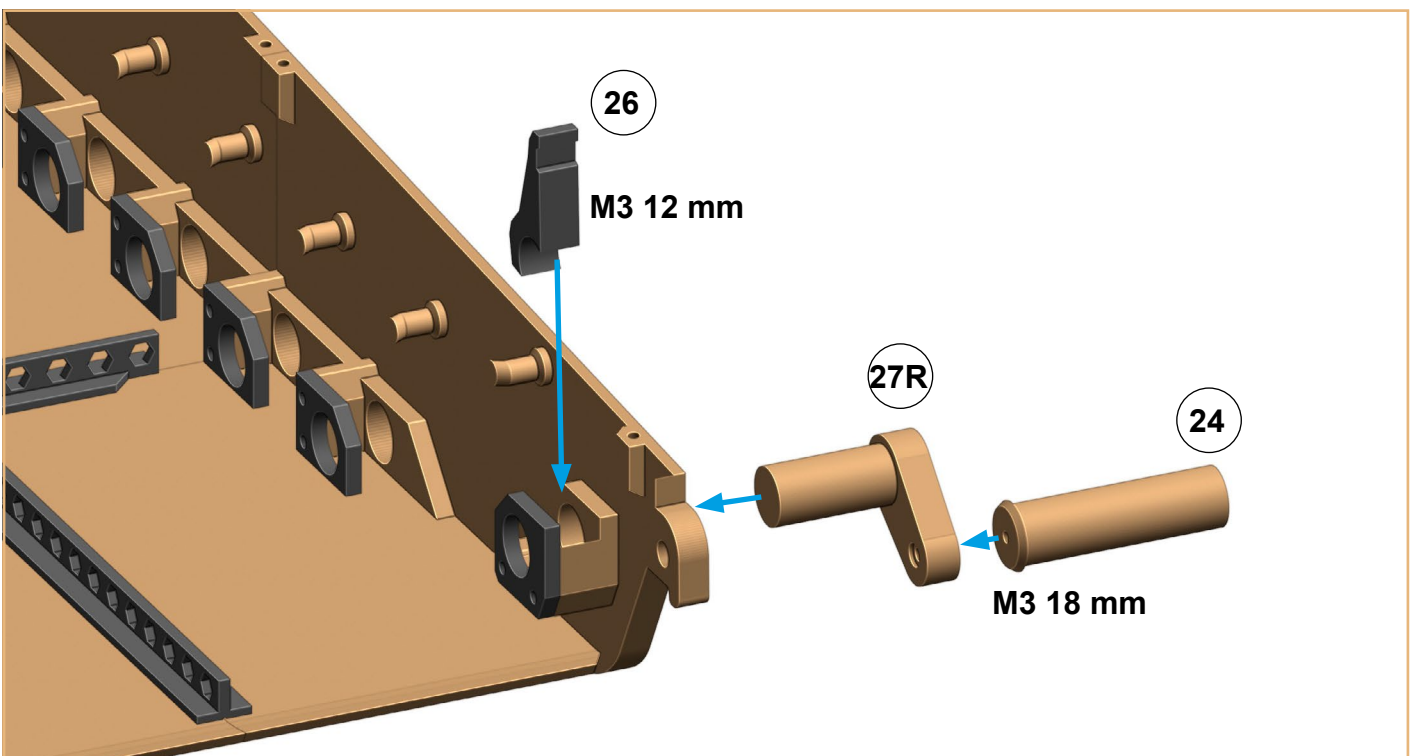
**screw M3 18 mm**

**screw M3 12 mm**

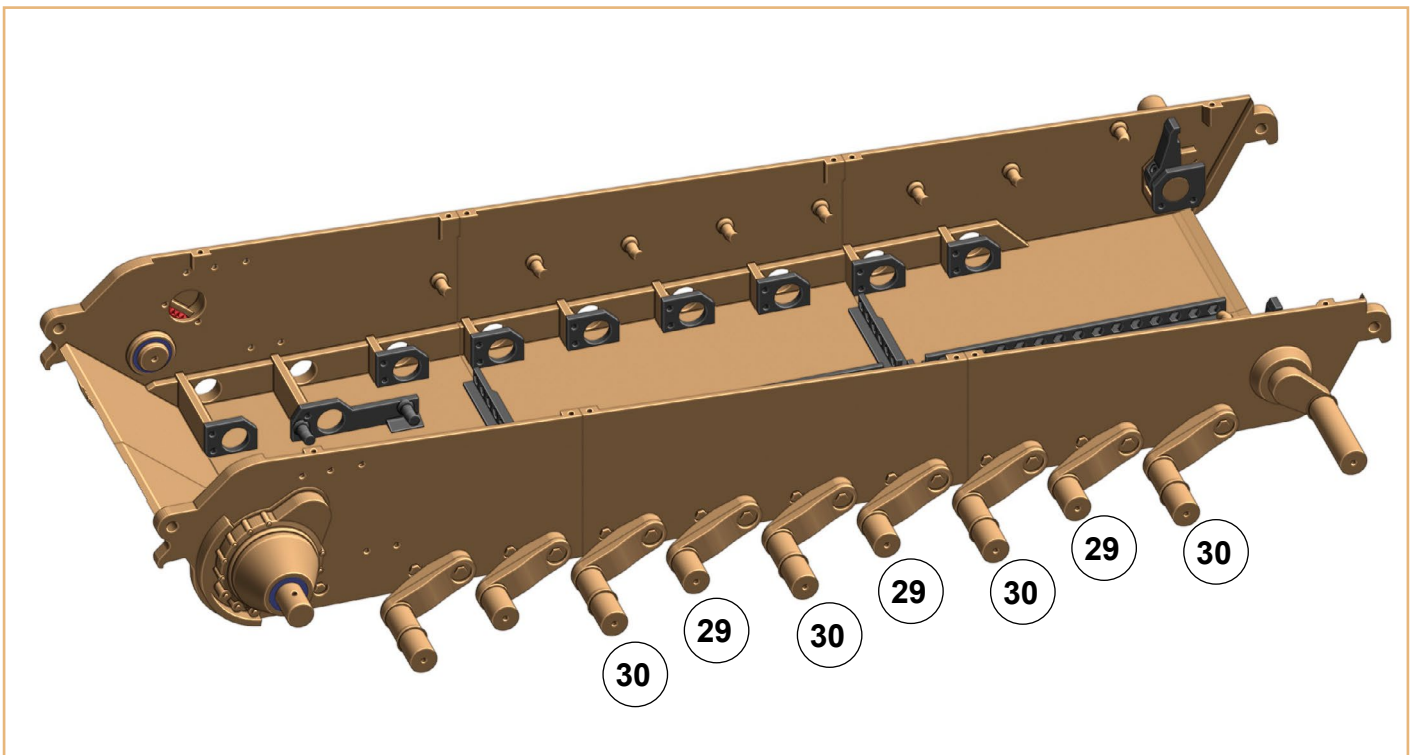
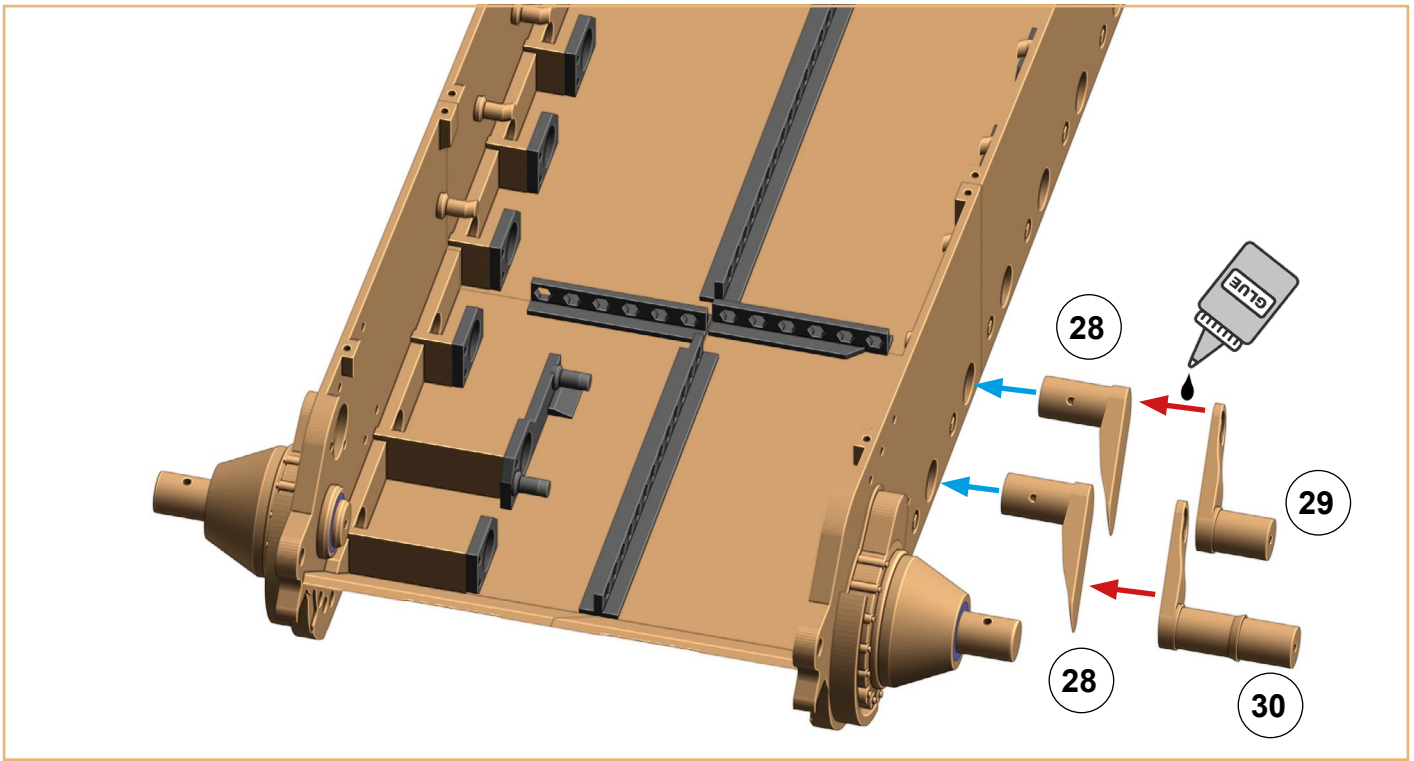


**screw M3 18 mm**

**screw M3 12 mm**

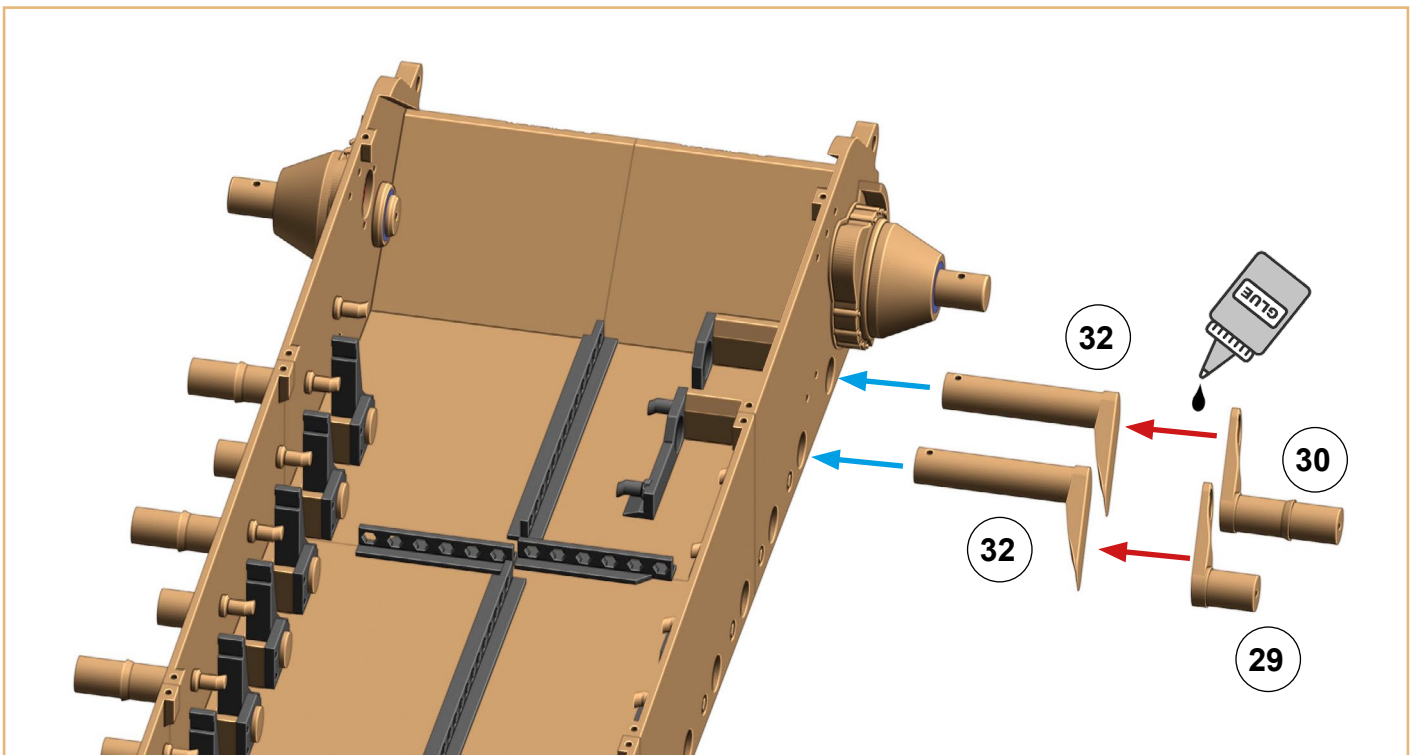
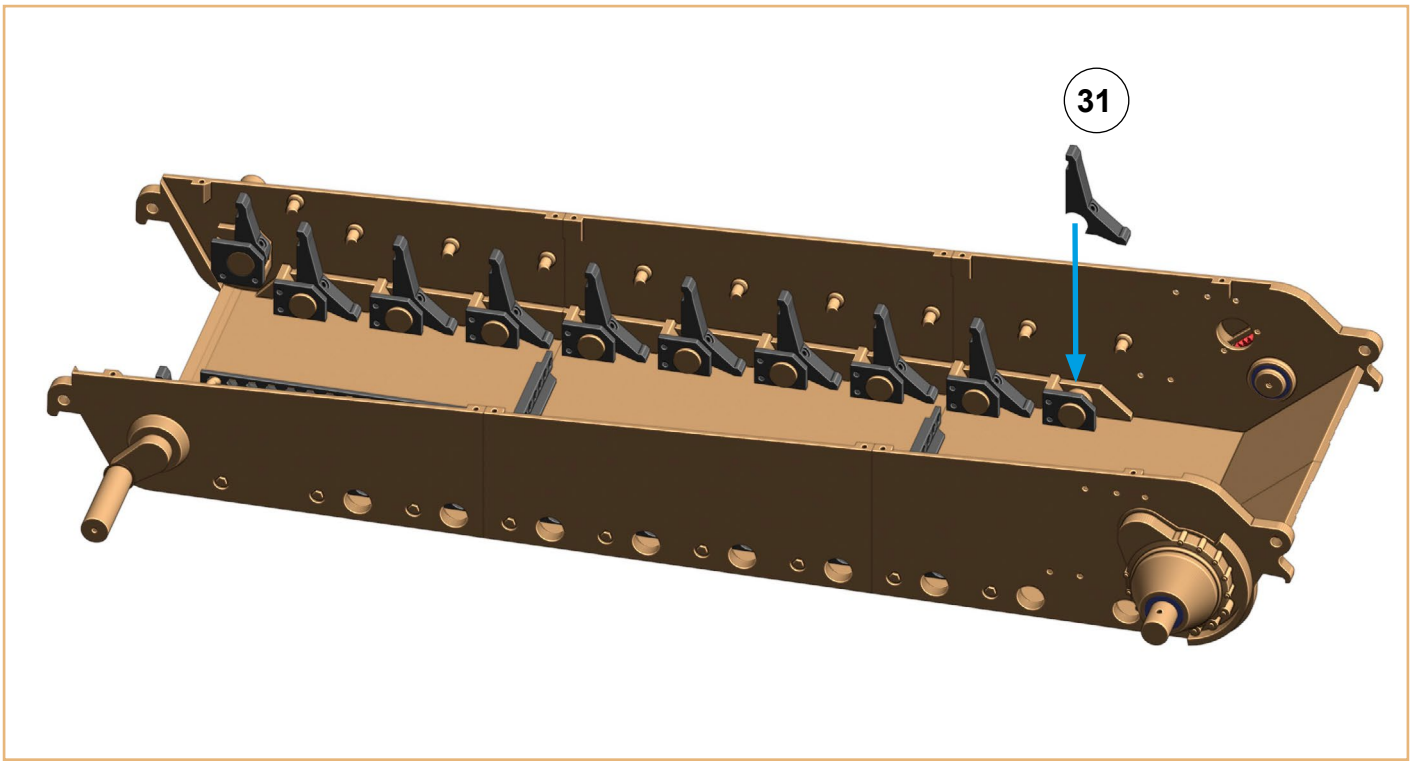


**Wheels suspensions:**  
**Apply grease to parts 28.**



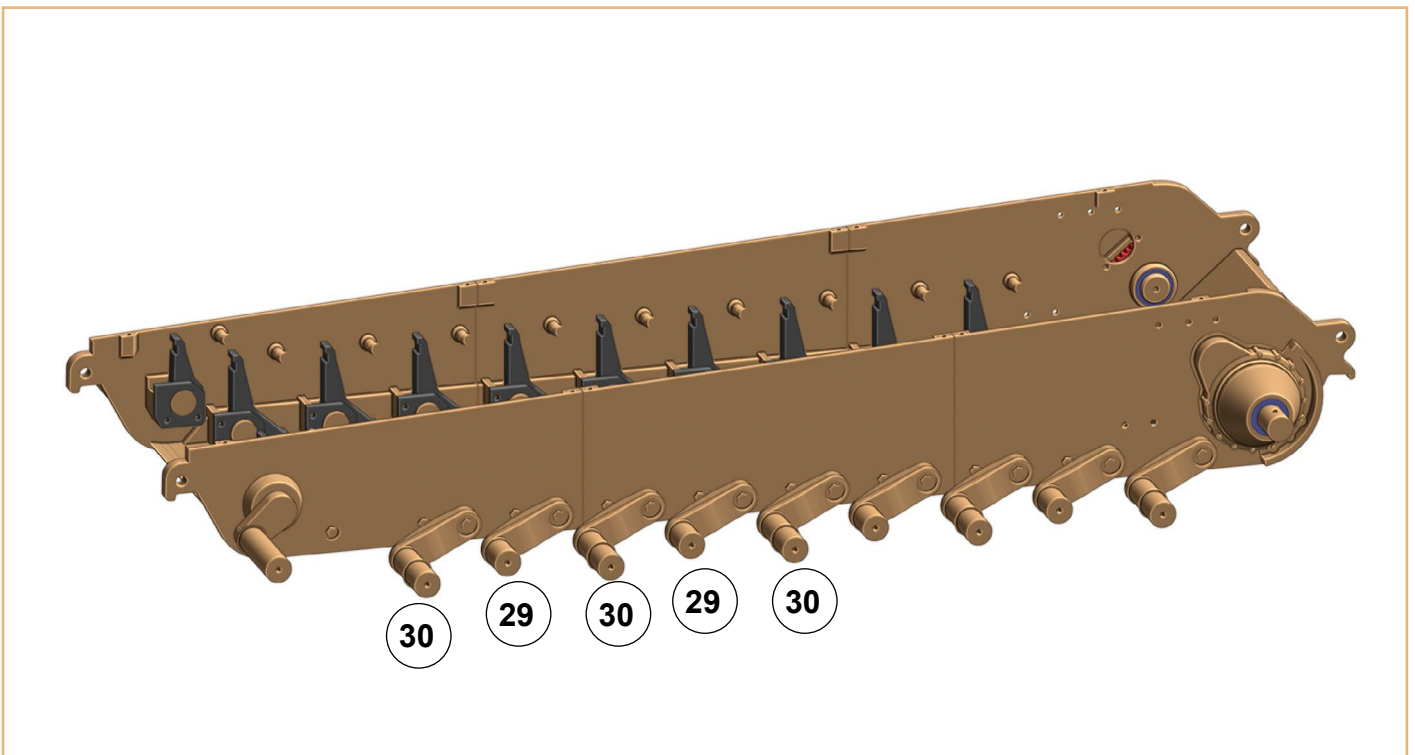
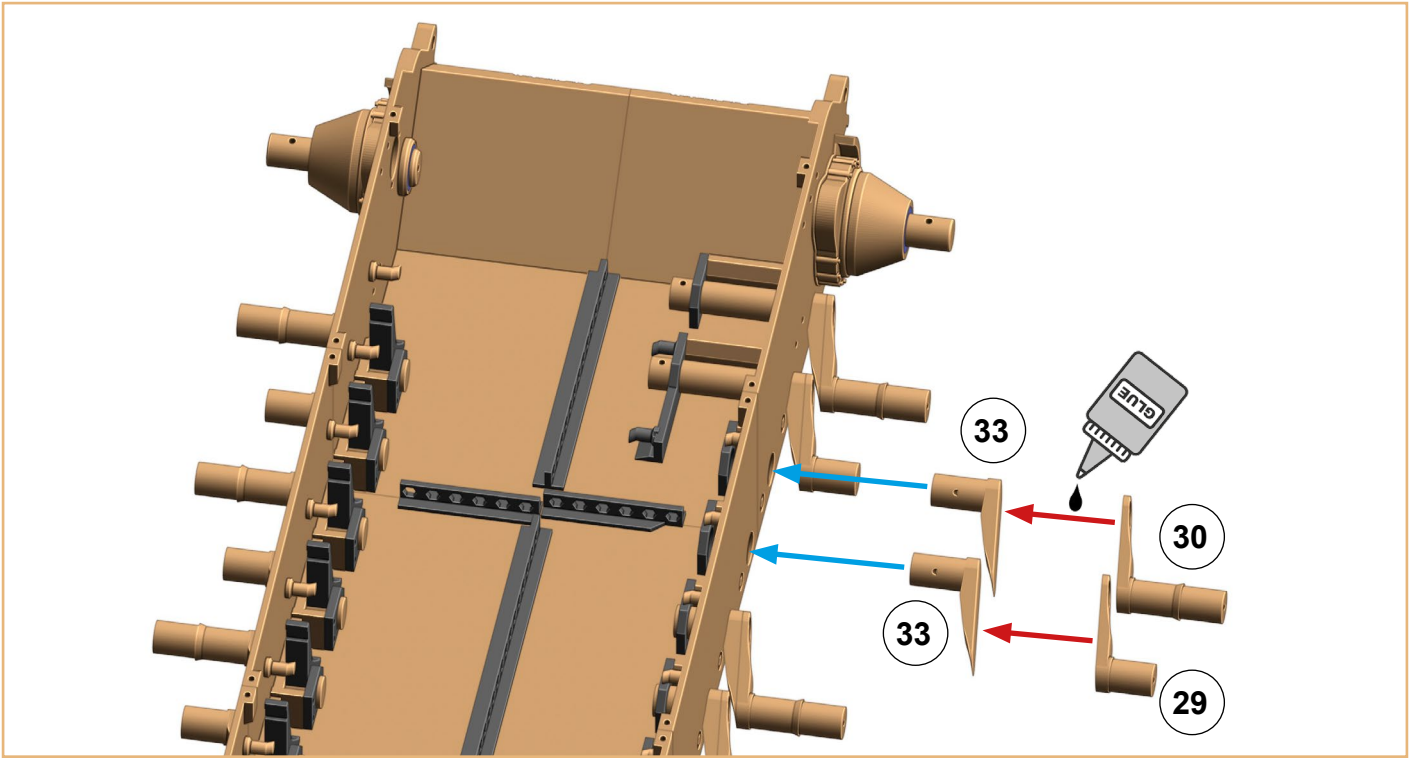


**Wheels suspensions:**  
**9x screw M3 10 mm**

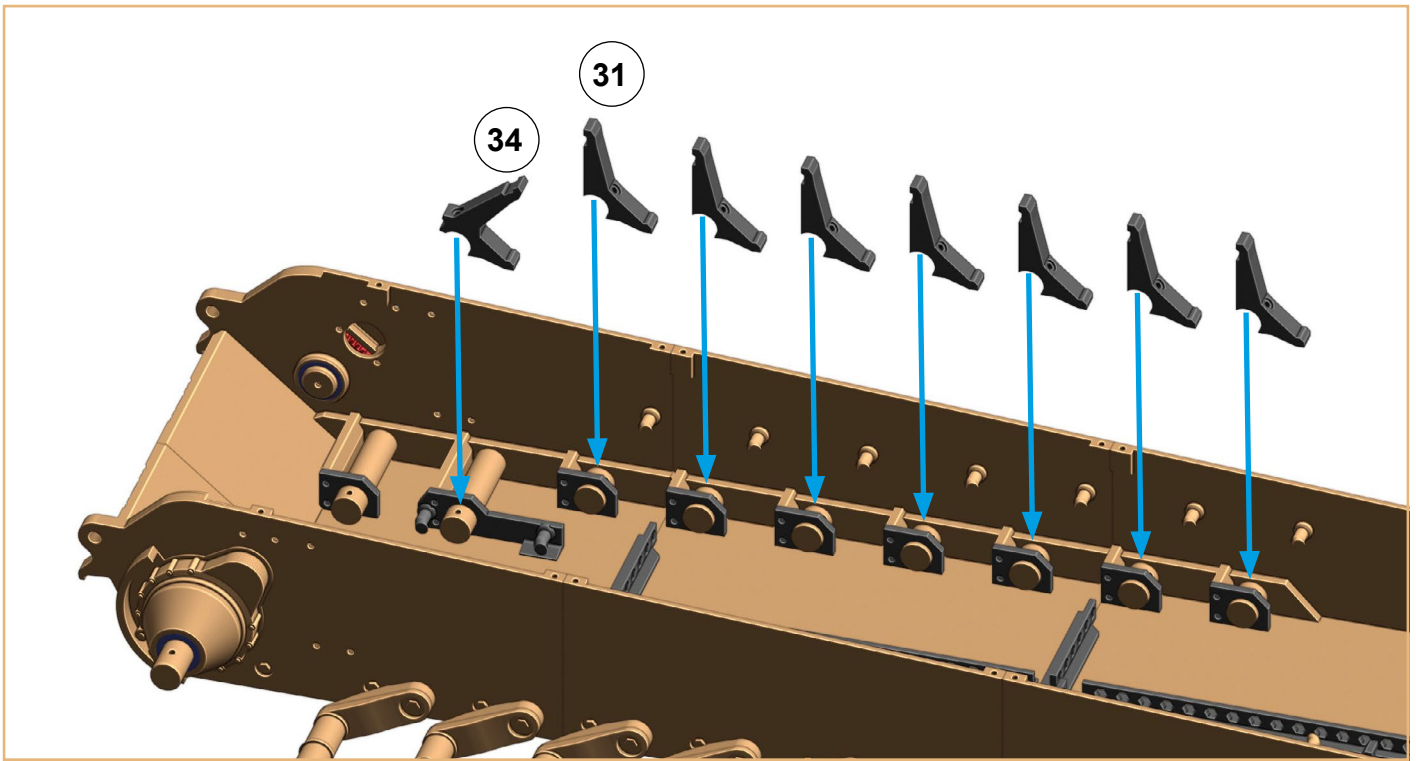




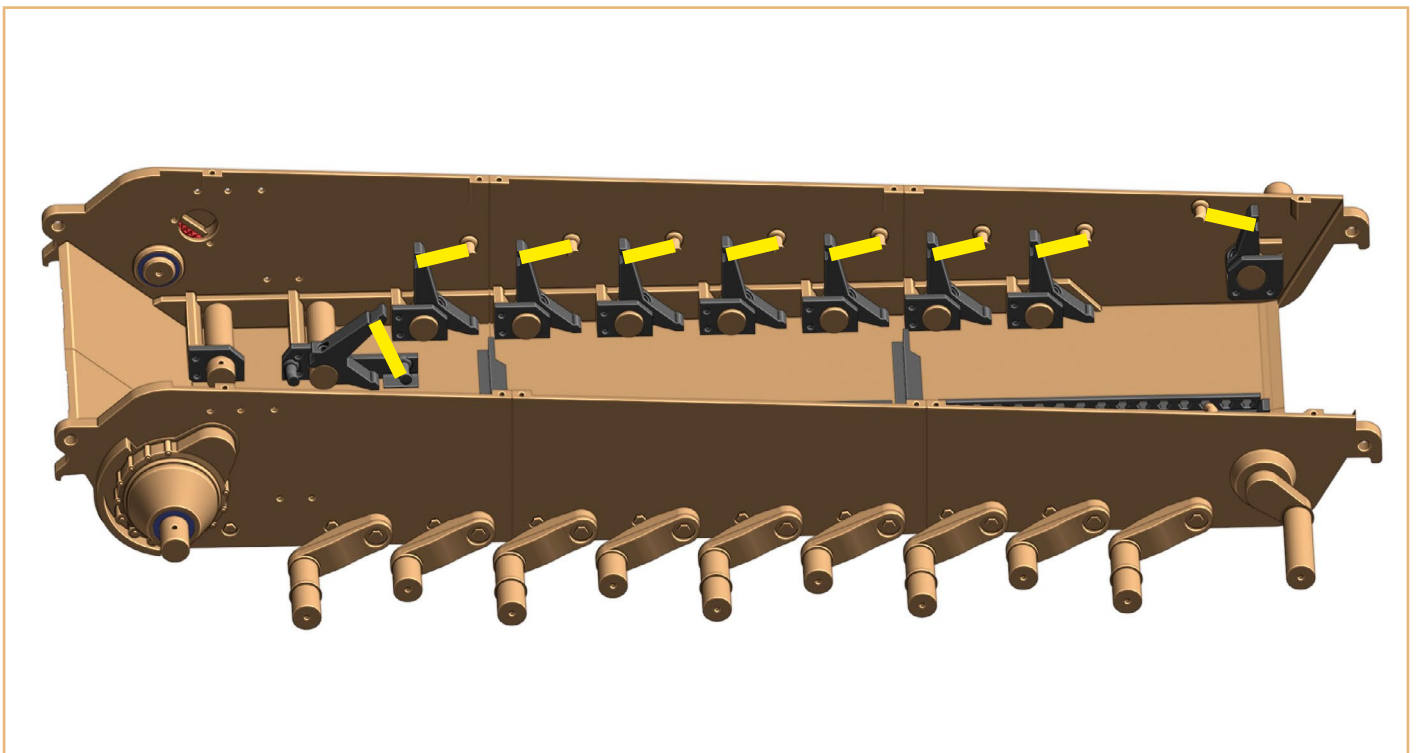
**Wheels suspensions:**



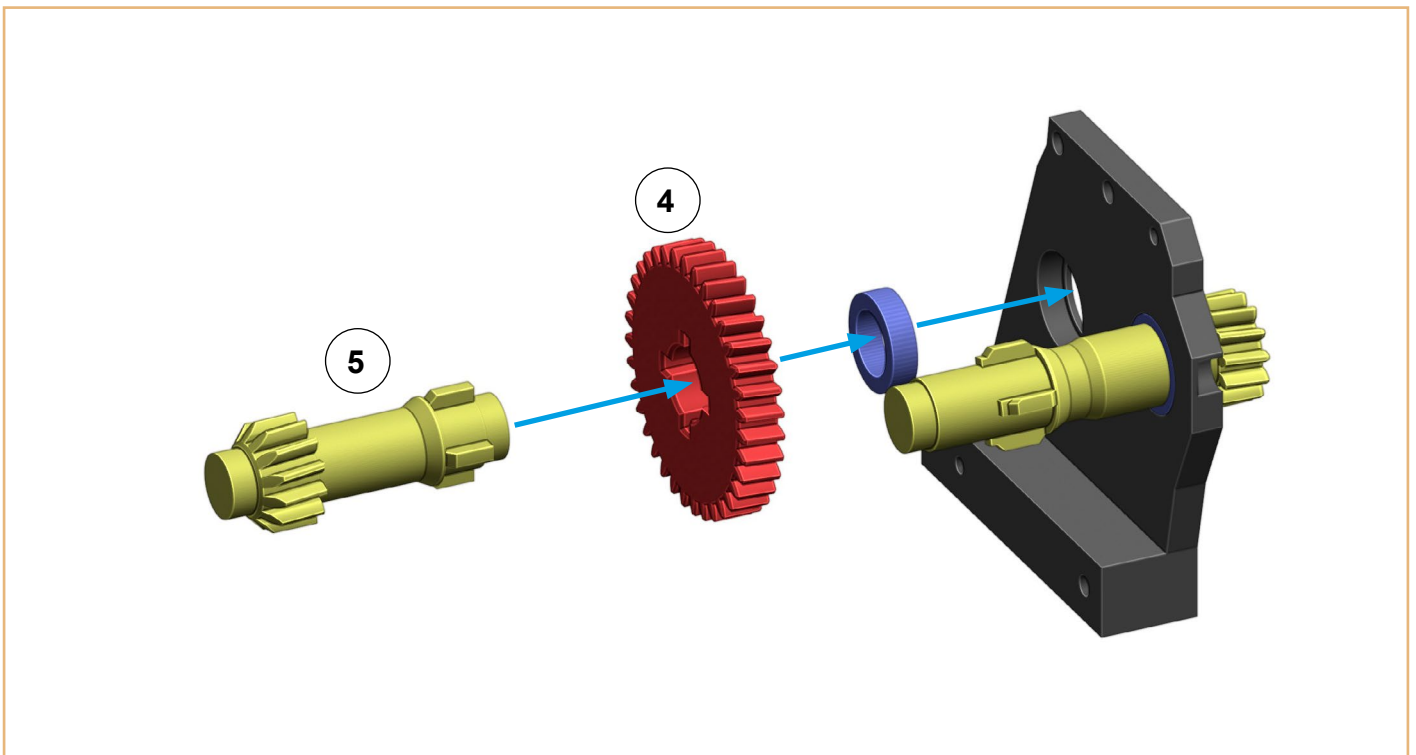
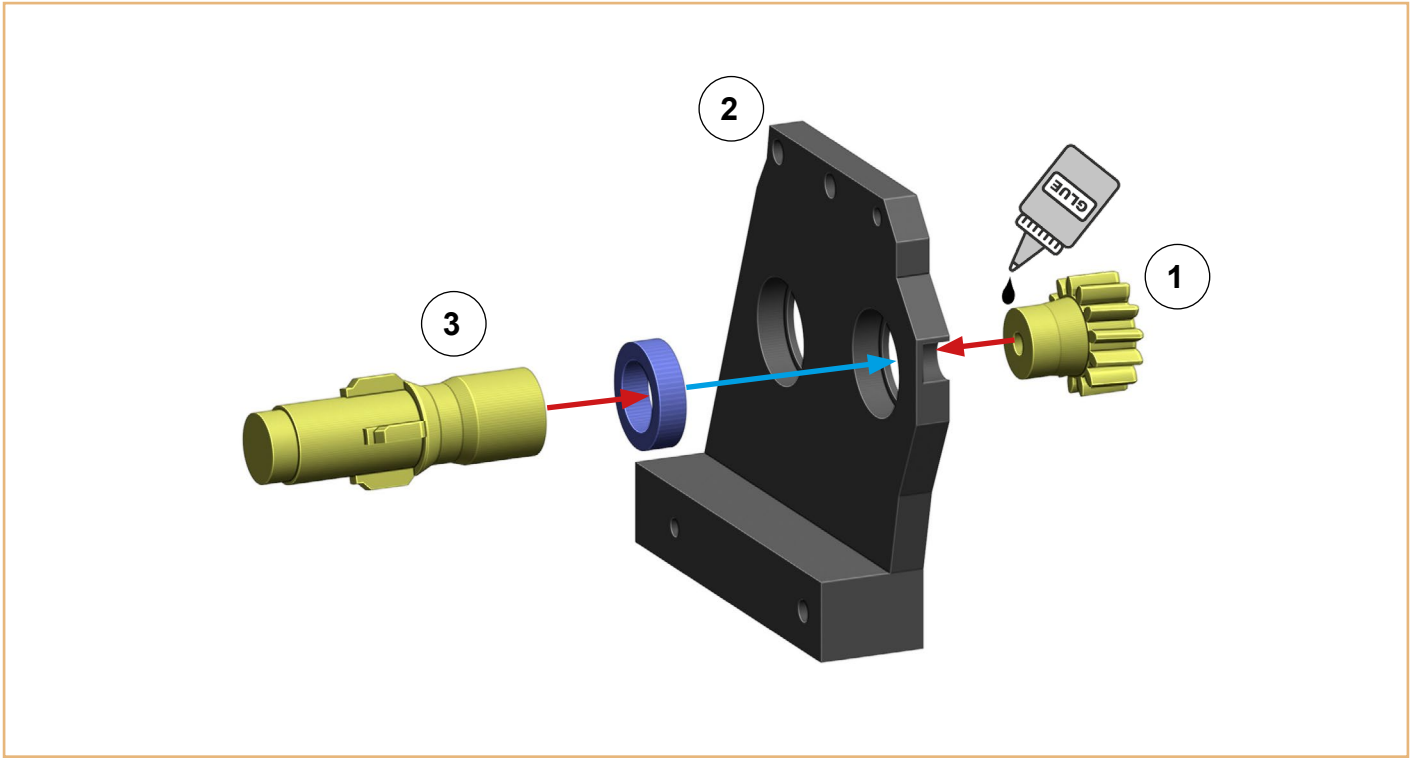
**Wheels suspensions:  
8x screw M3 10 mm**



**Use rubbers from air chamber, for first and last position double it if needed.**



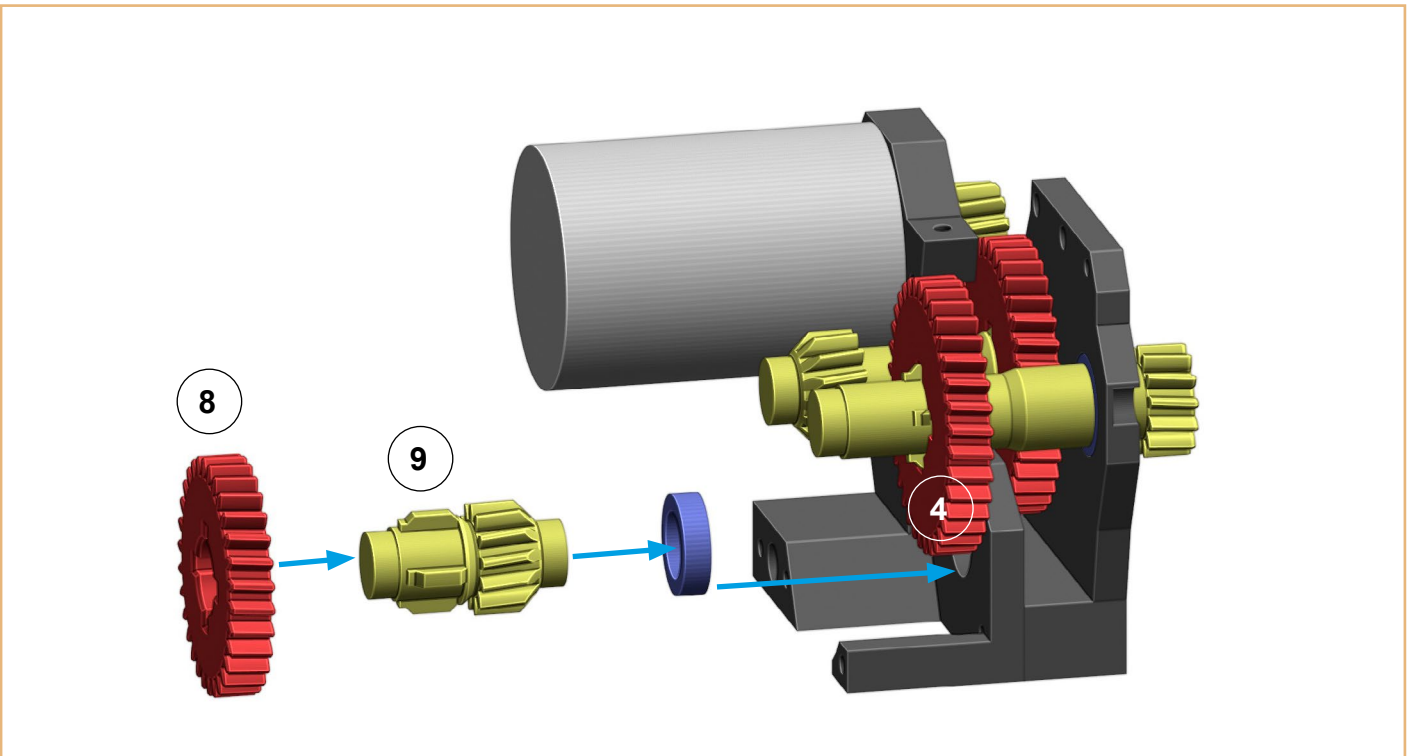
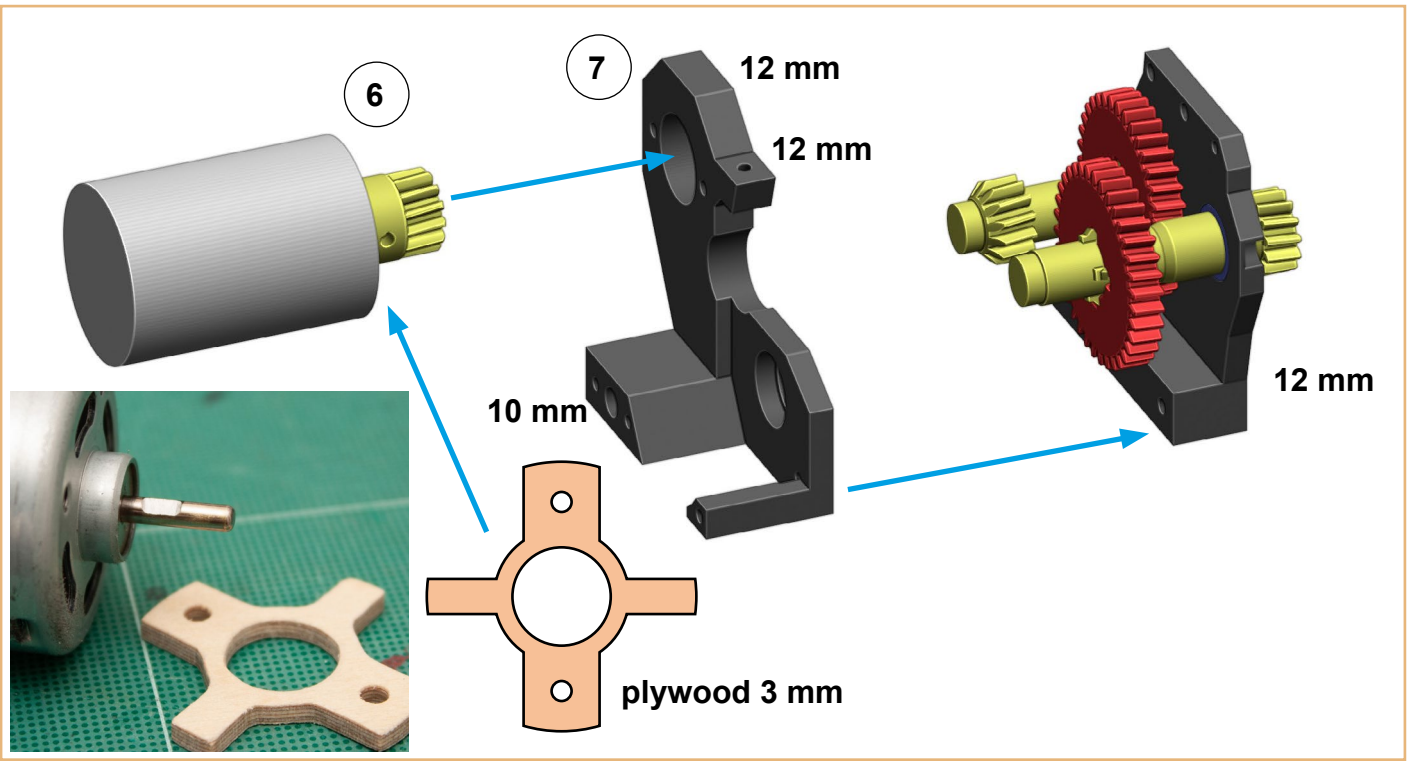
**Gears L (left side):**  
**screw M3 20 mm**



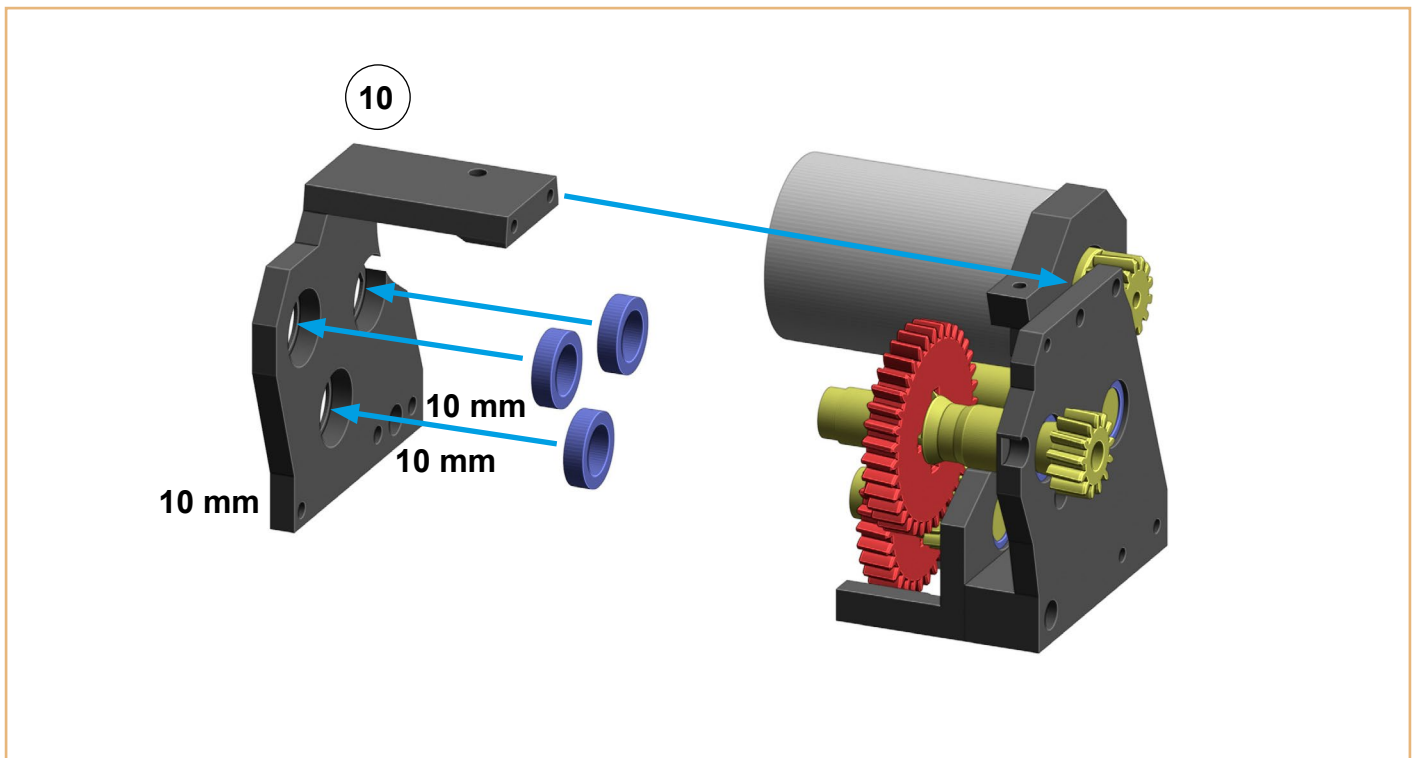
**Gears L (left side):**

**2x headless screw M3 2 mm + 2x nut M3 (for pinion gear No. 6)**

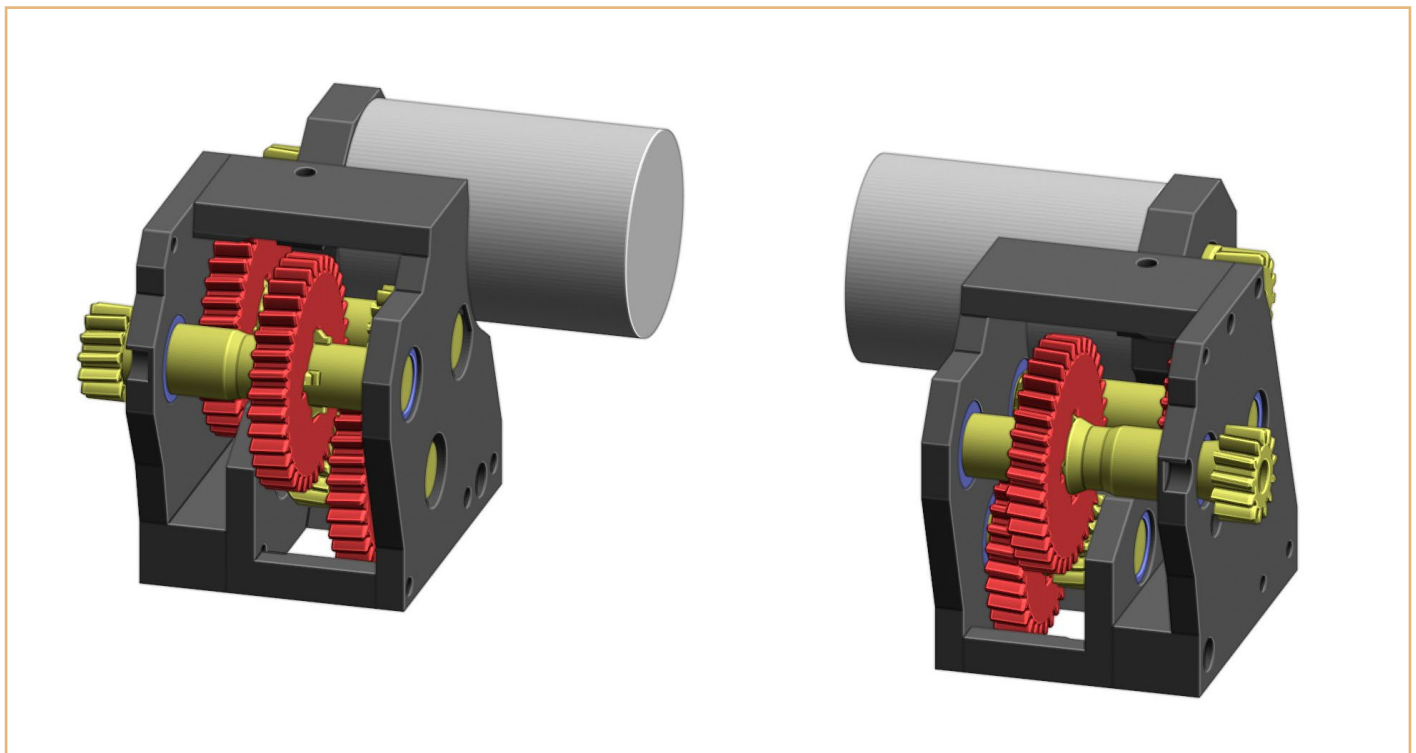
**3x screw M3 12 mm, screw M3 10 mm**



**Gears L (left side):**  
**3x screw M3 10 mm**



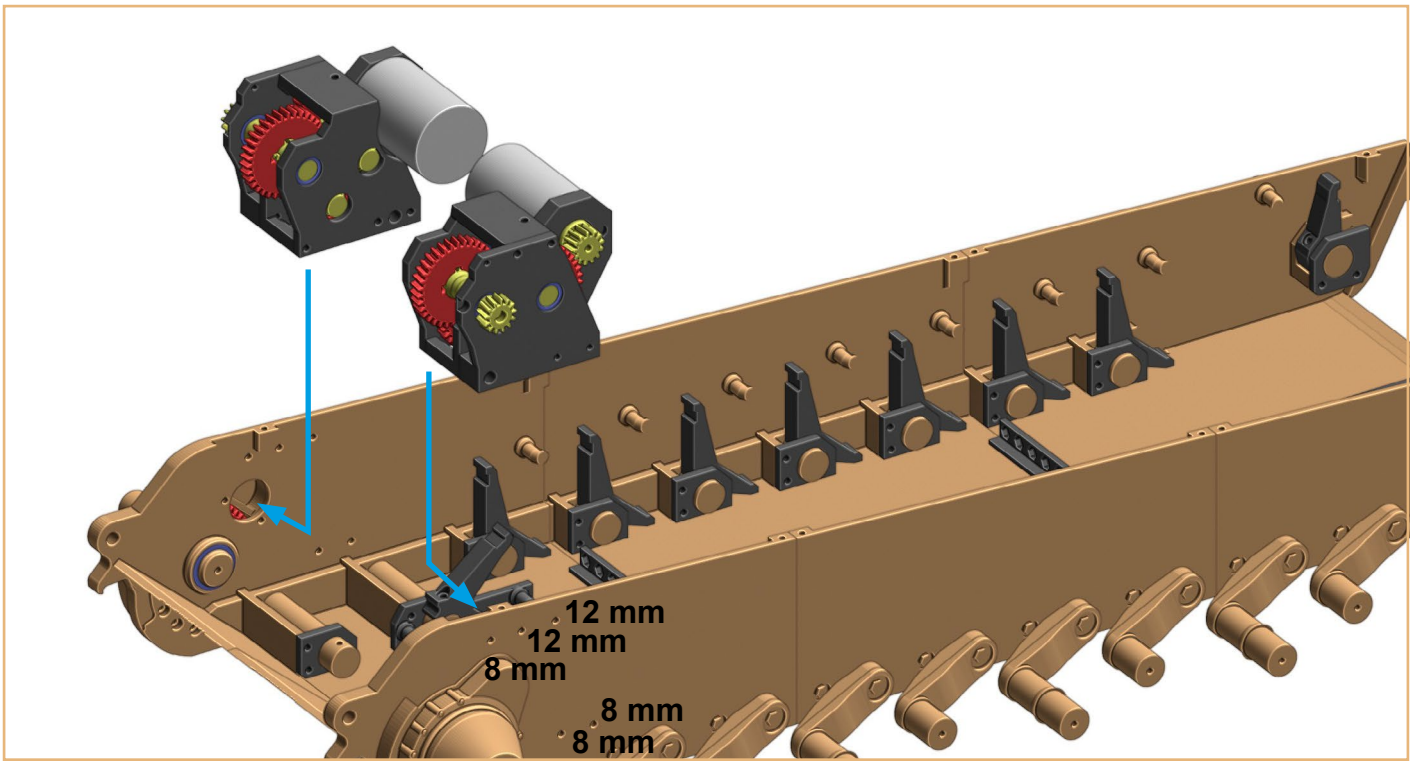
**Gears R (right side):**  
**Parts 1-10 are reversed, collect it same way.**





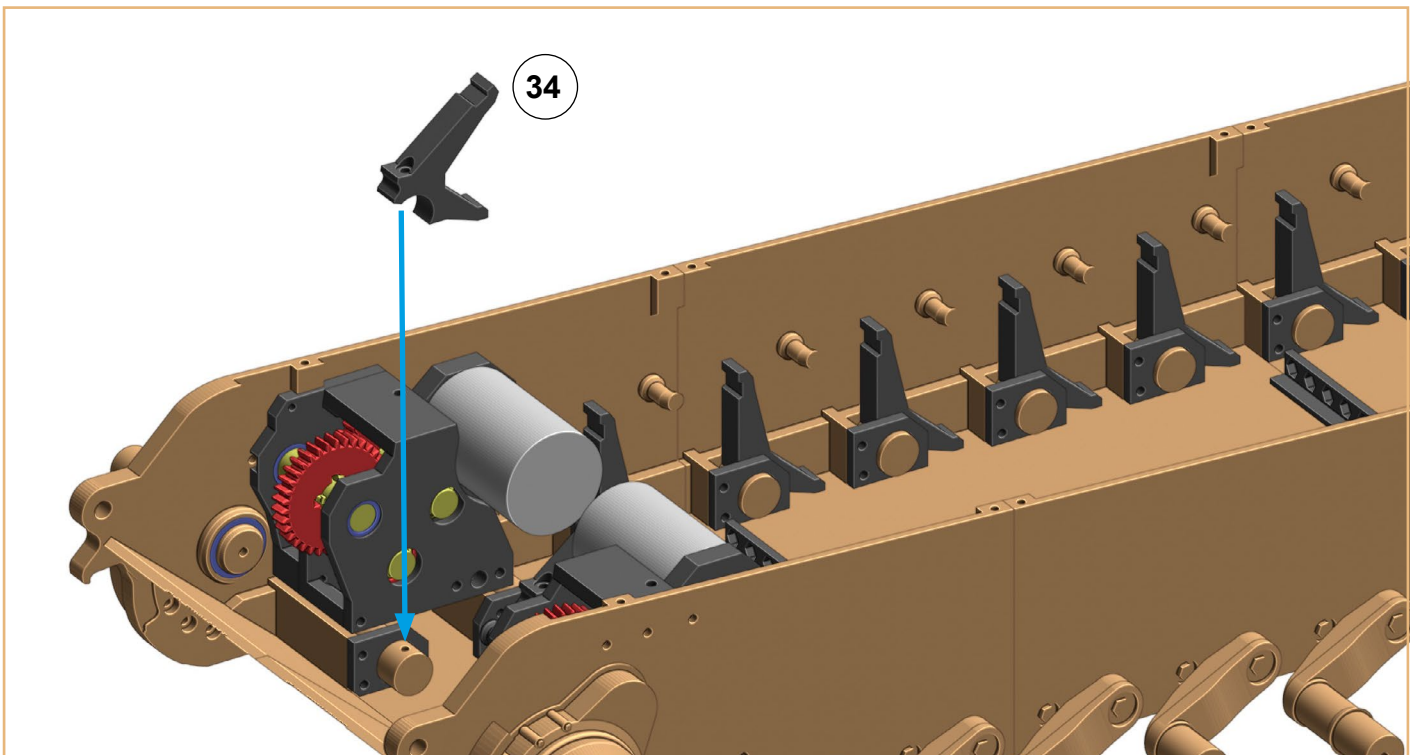
4x screw M3 12 mm

6x screw M3 8 mm



**Wheels suspensions:**

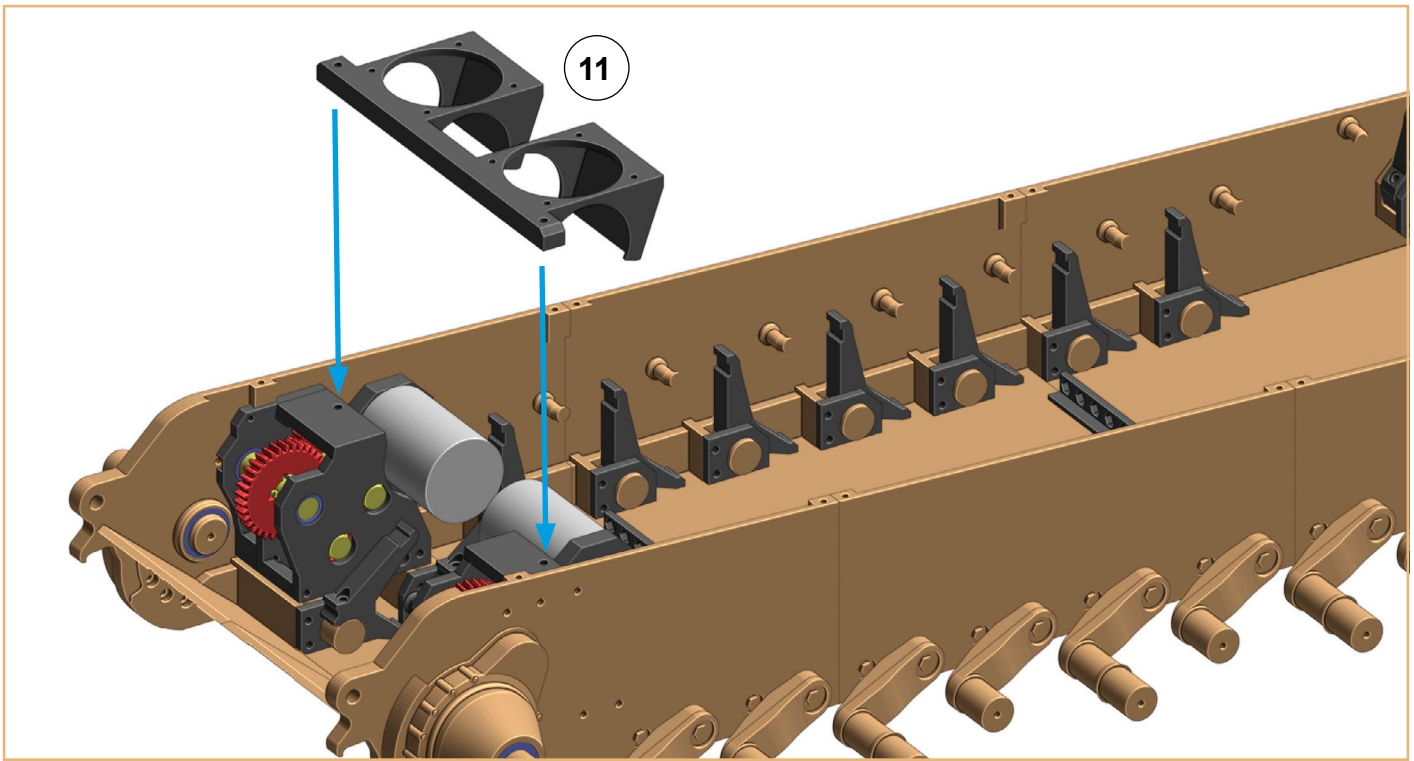
screw M3 10 mm



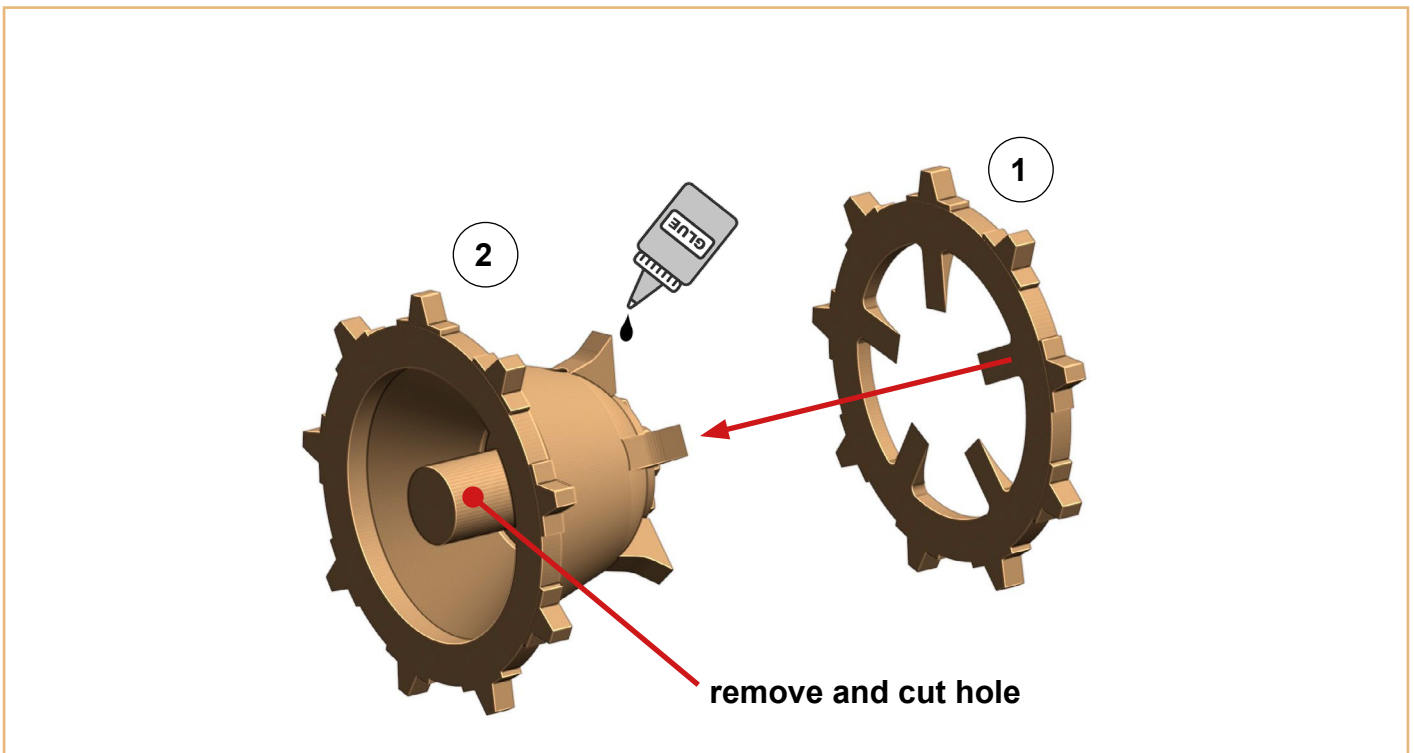


## Gears:

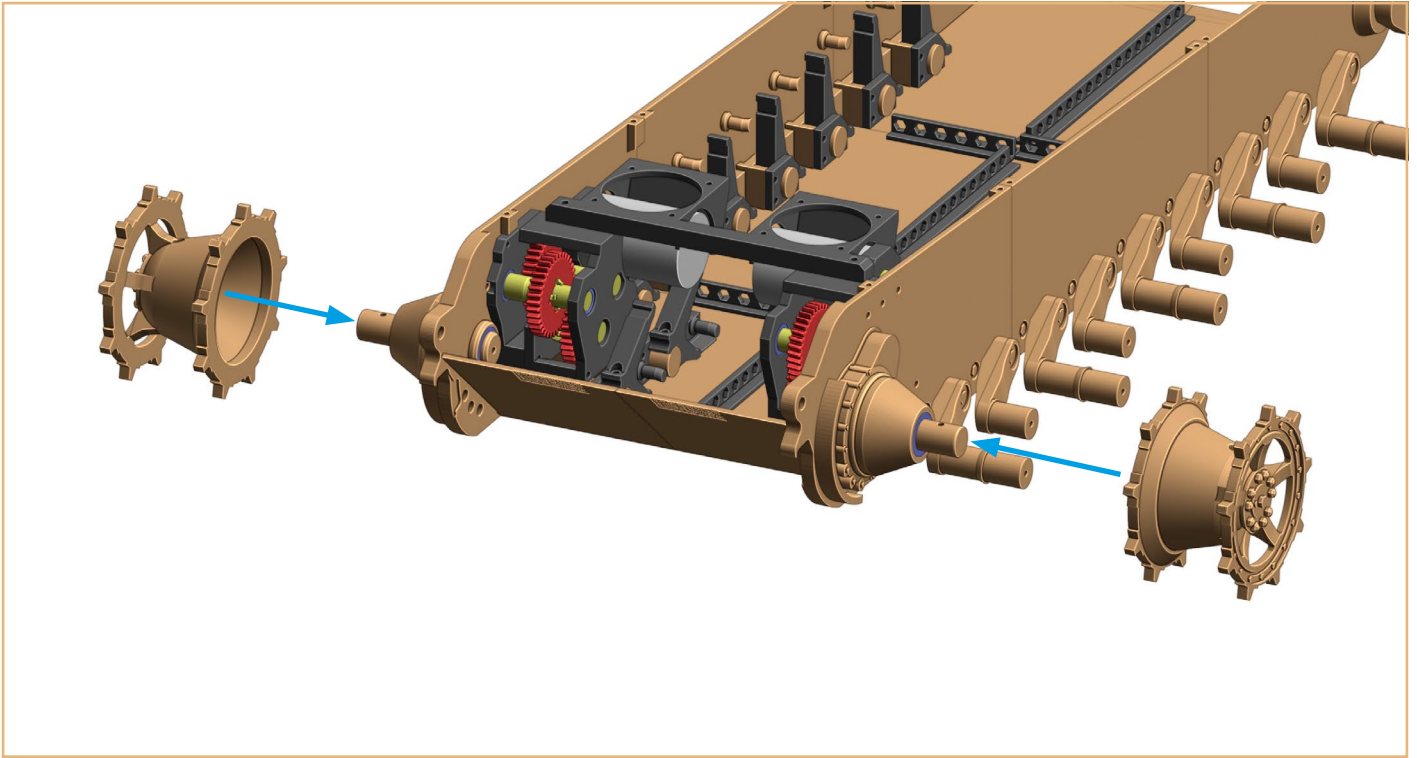
2x screw M3 20 mm



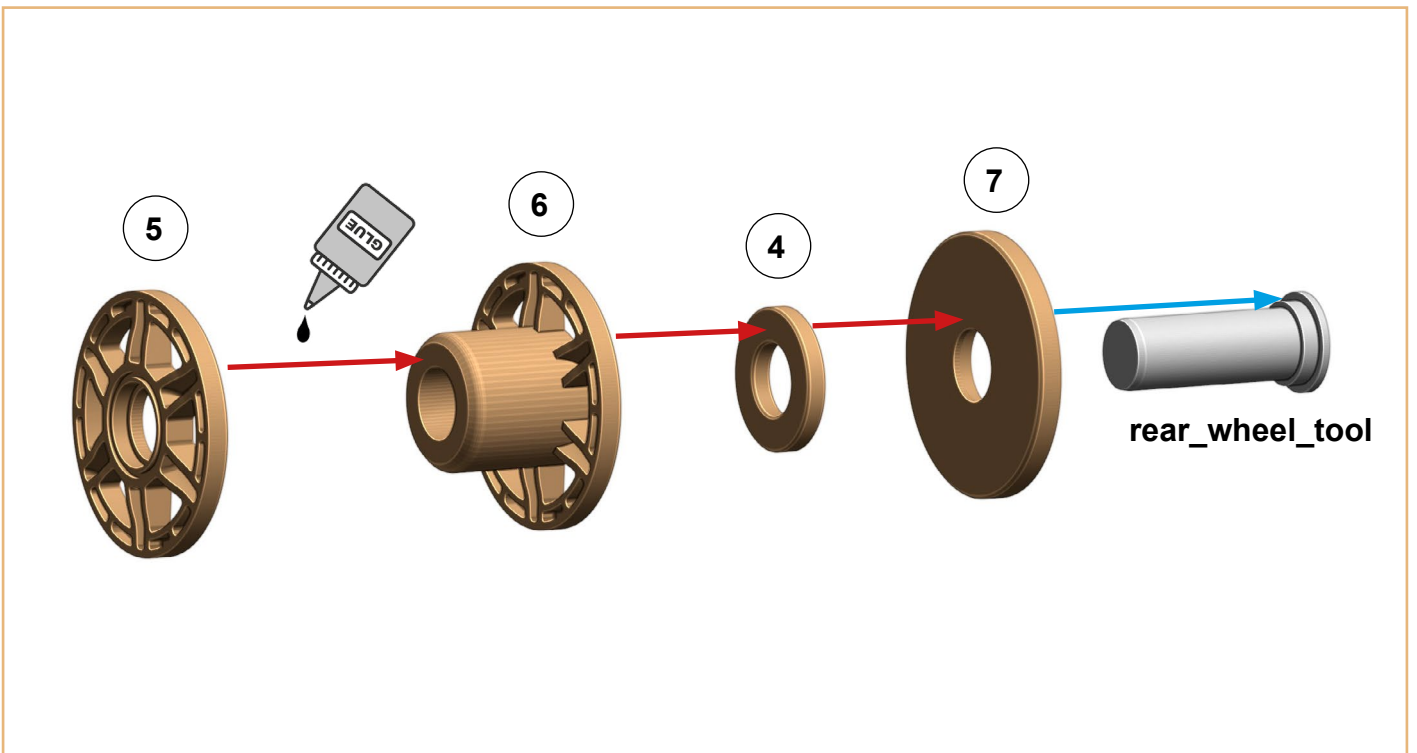
## Wheels:



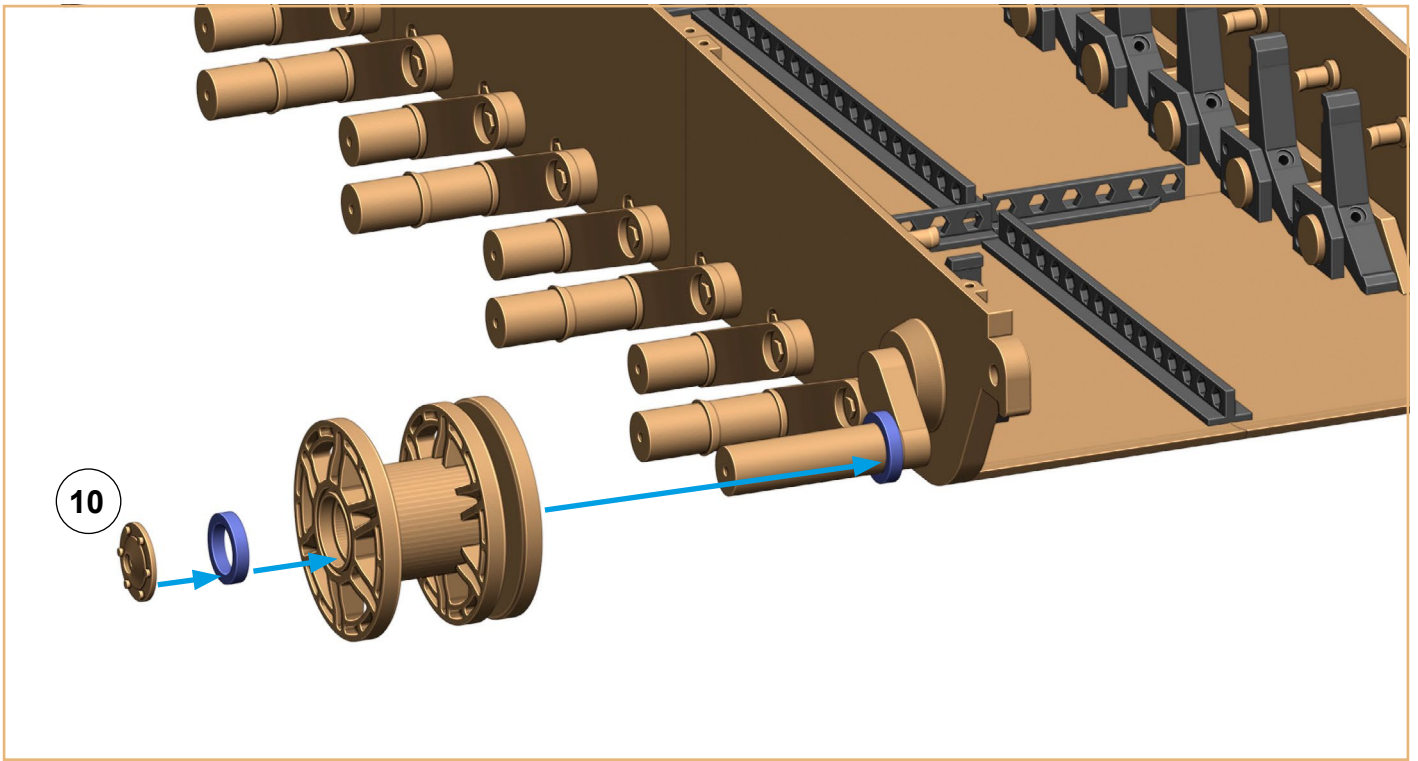
2x screw M3 30 mm



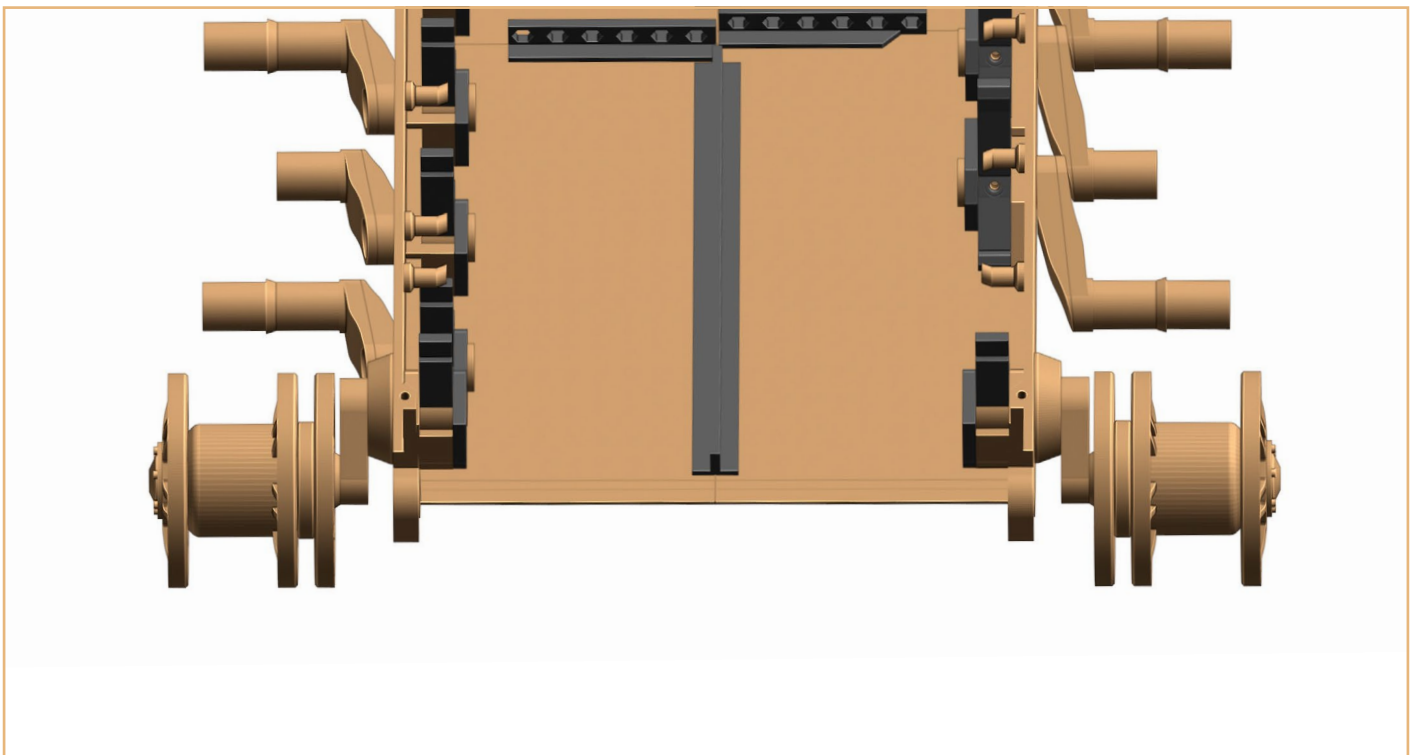
Wheels:



**screw M3 10 mm**

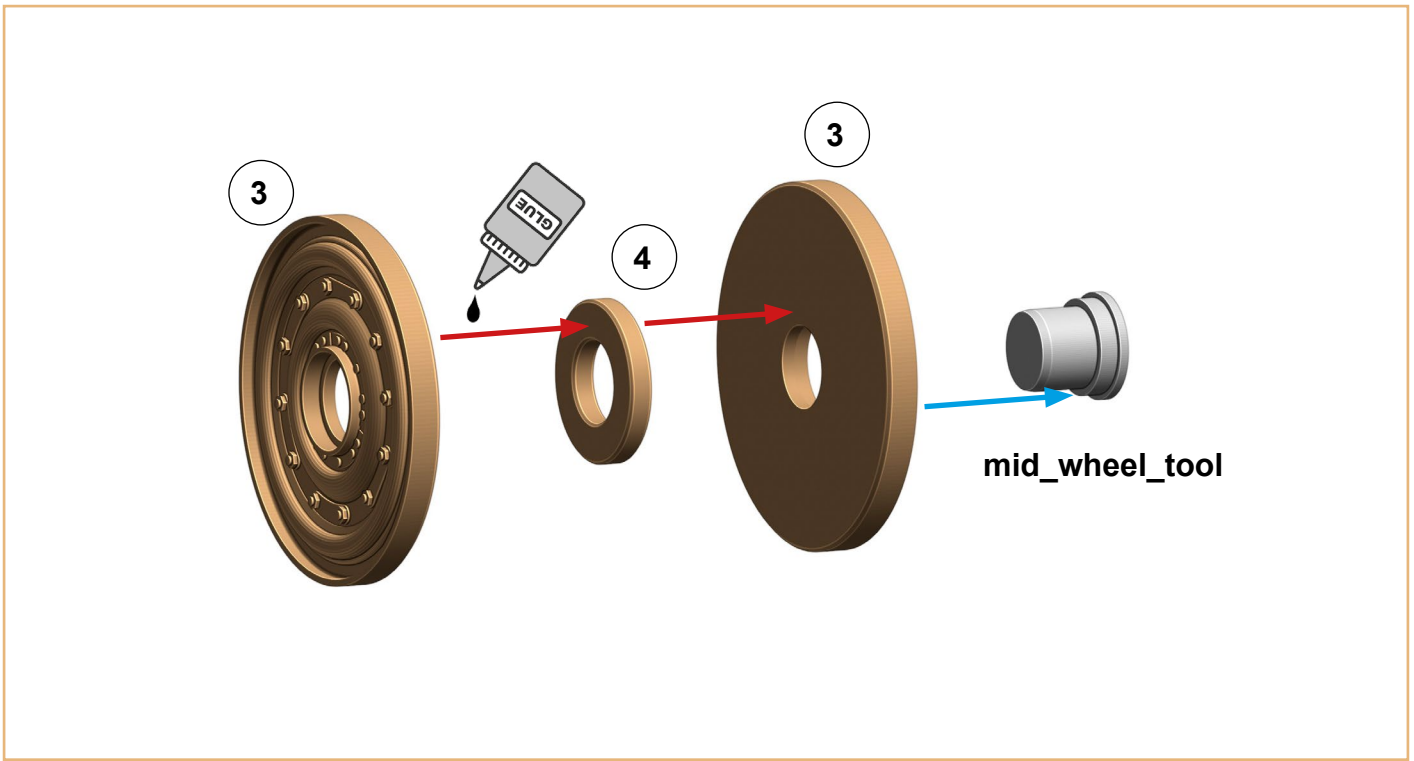


**Same for right side:  
screw M3 10 mm**



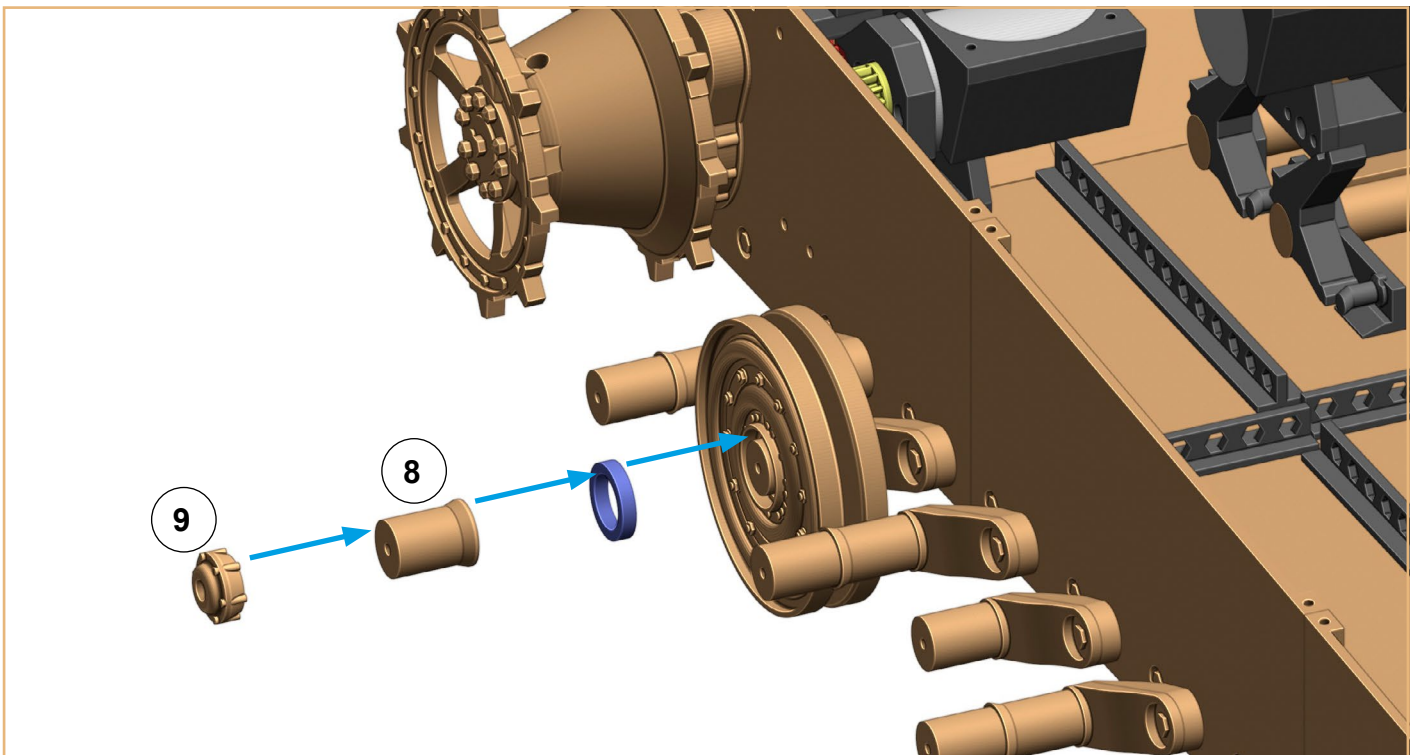
**Wheels:**

**18x**



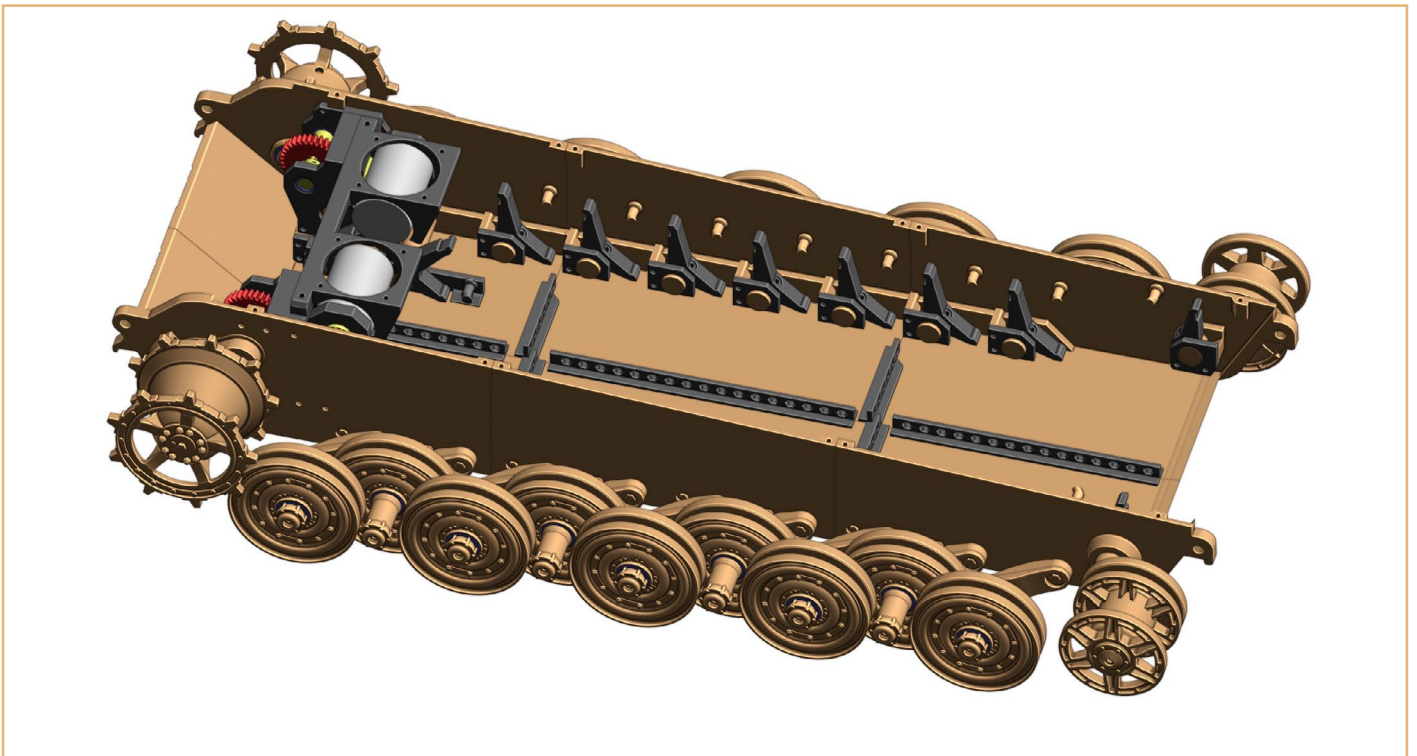
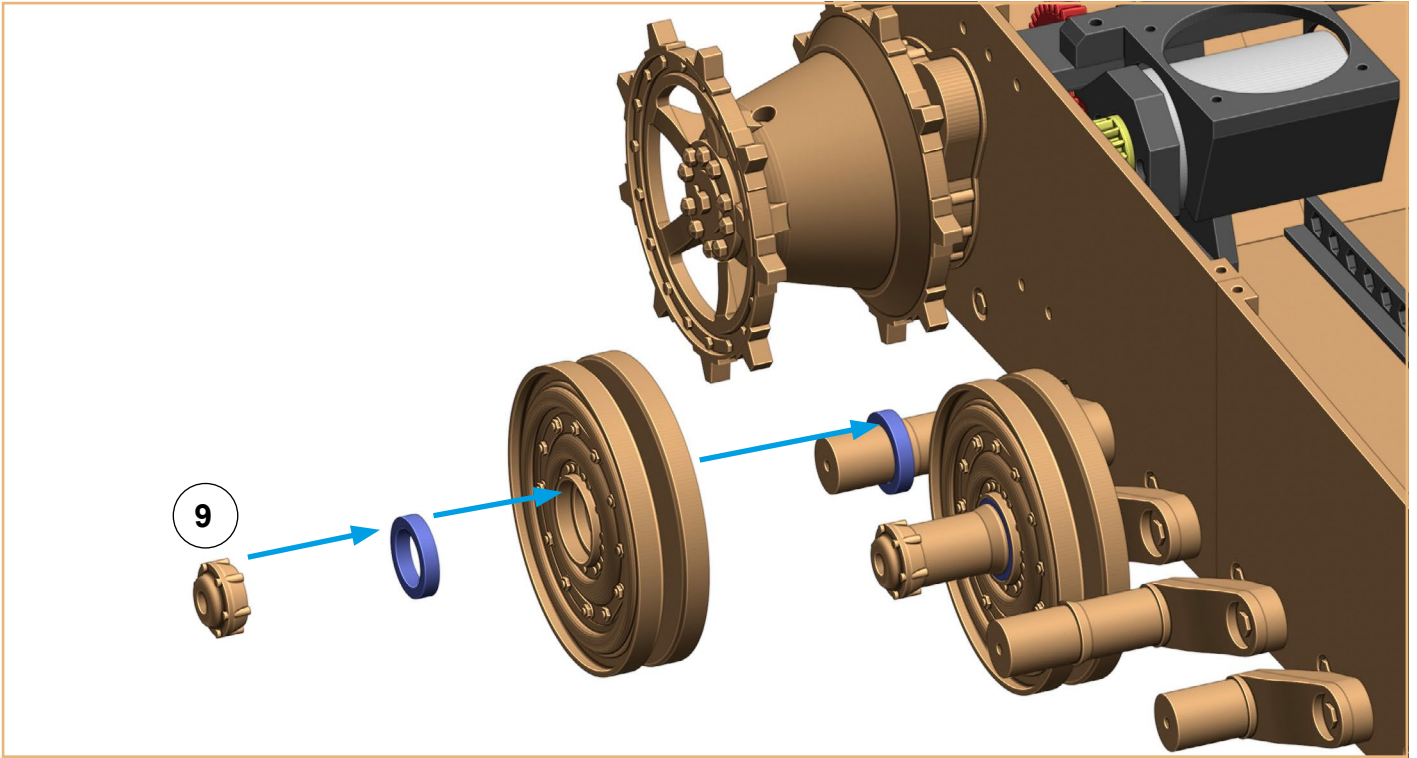
**screw M3 35 mm**

**8x**



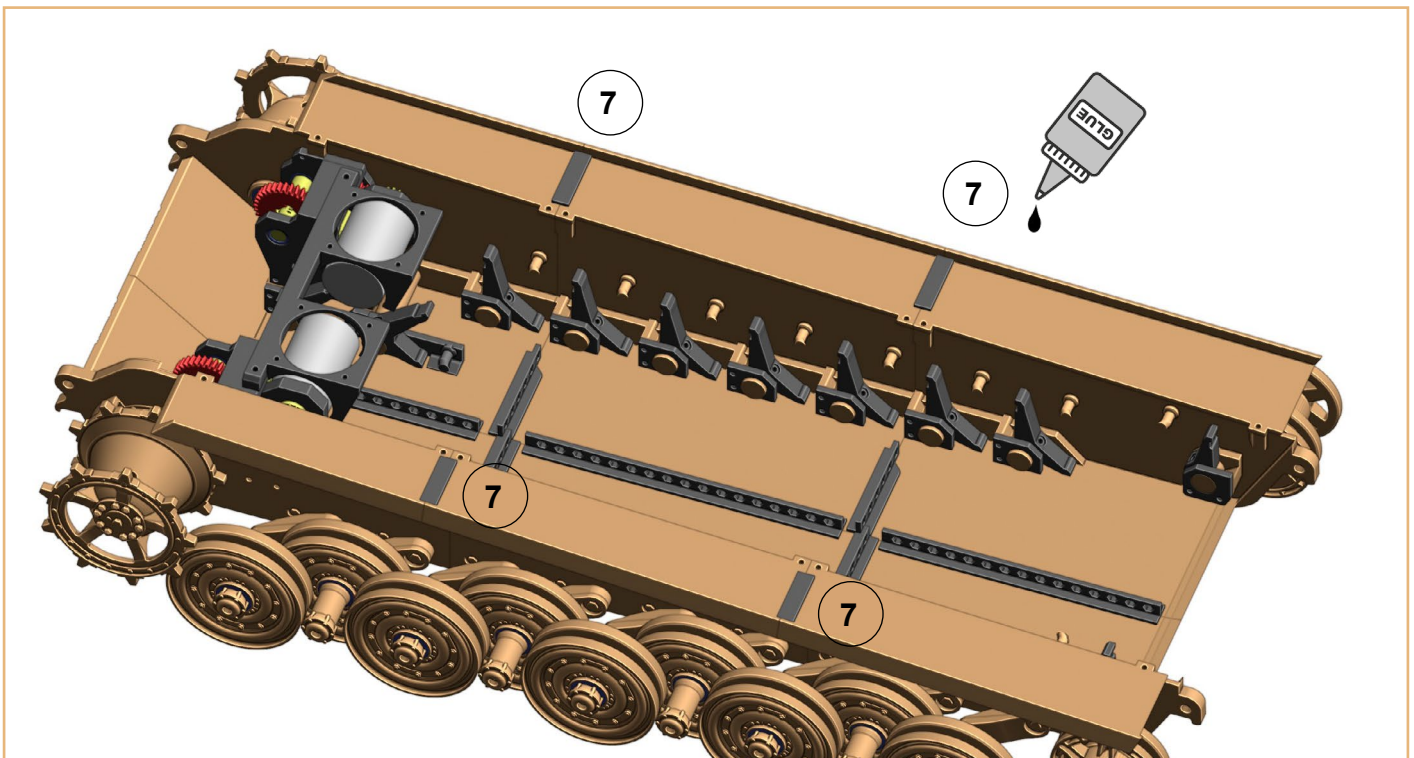
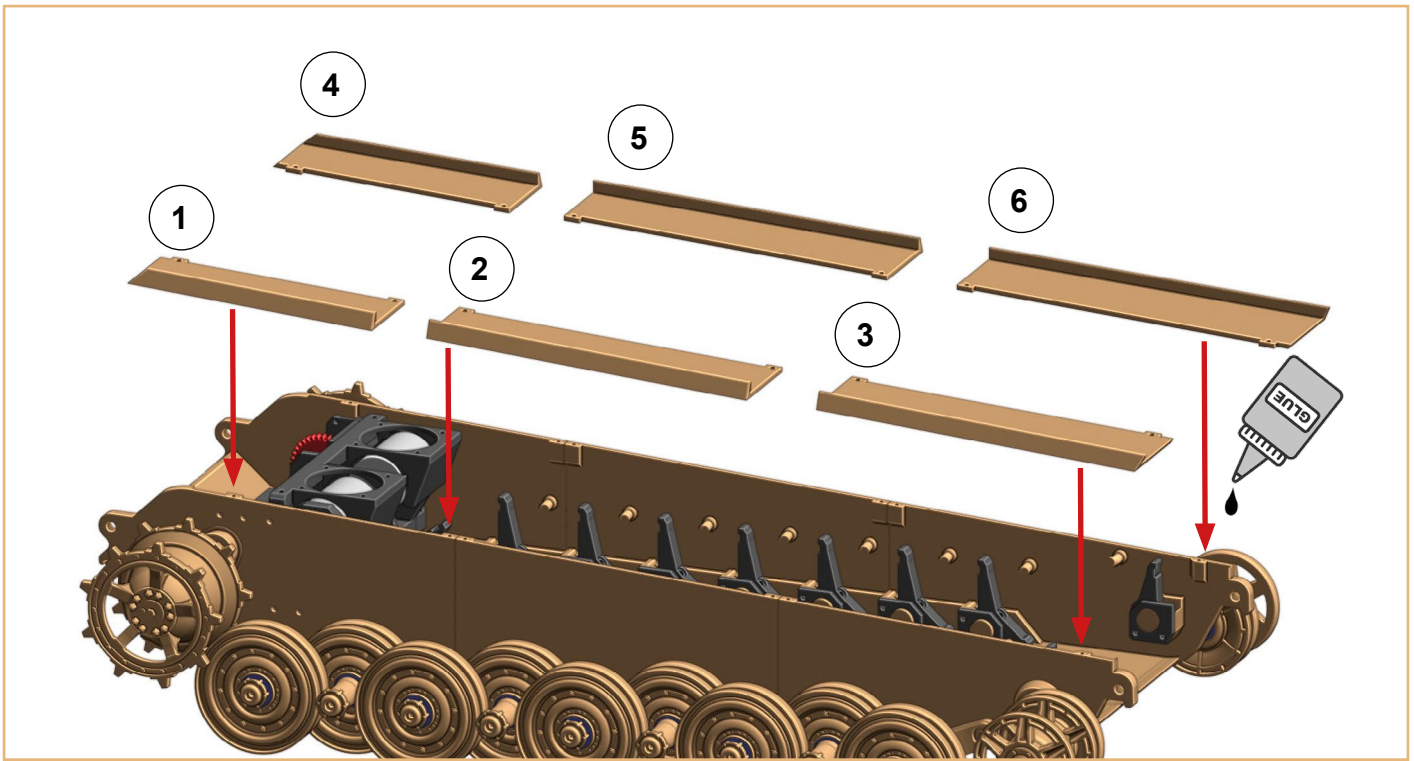


**Wheels:**  
**screw M3 12 mm**  
**10x**



**Fenders:**

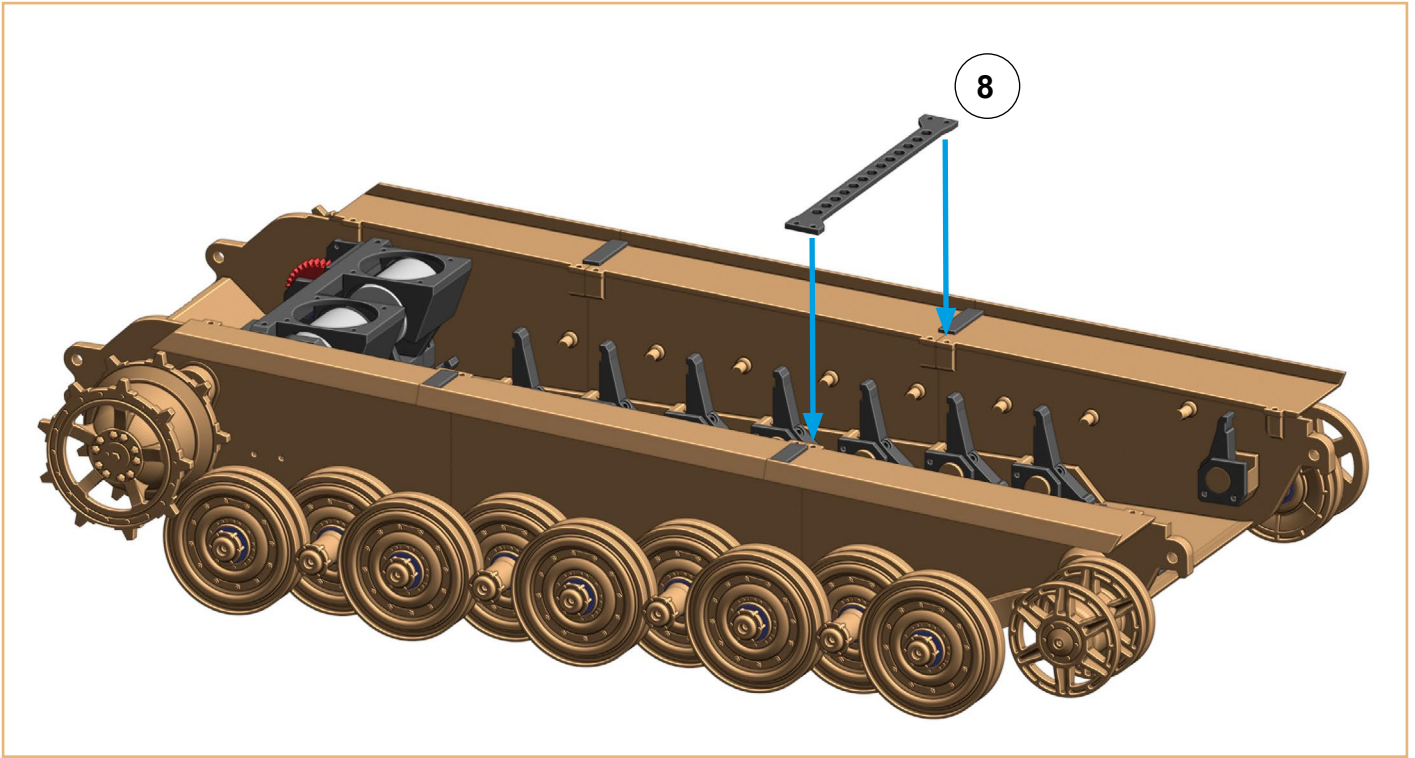
**8x screw M3 8 mm**



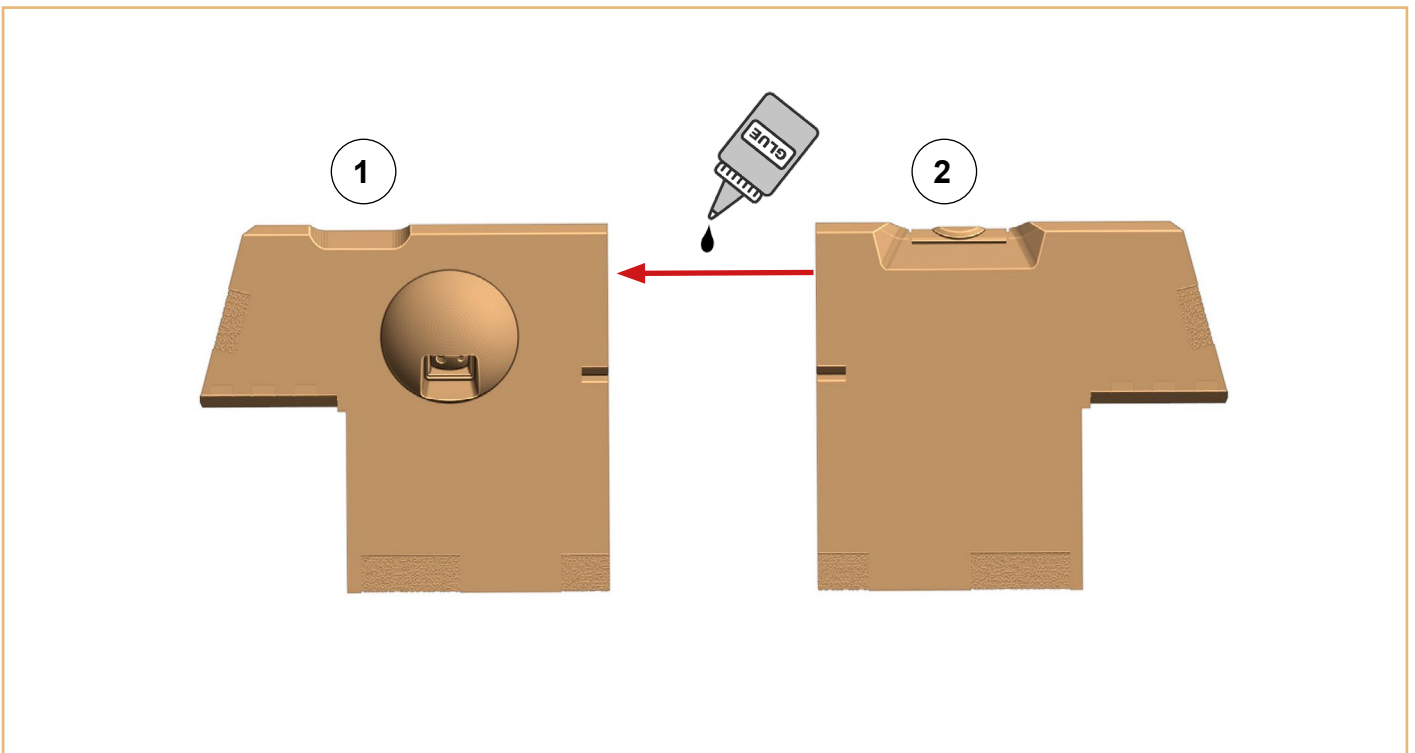


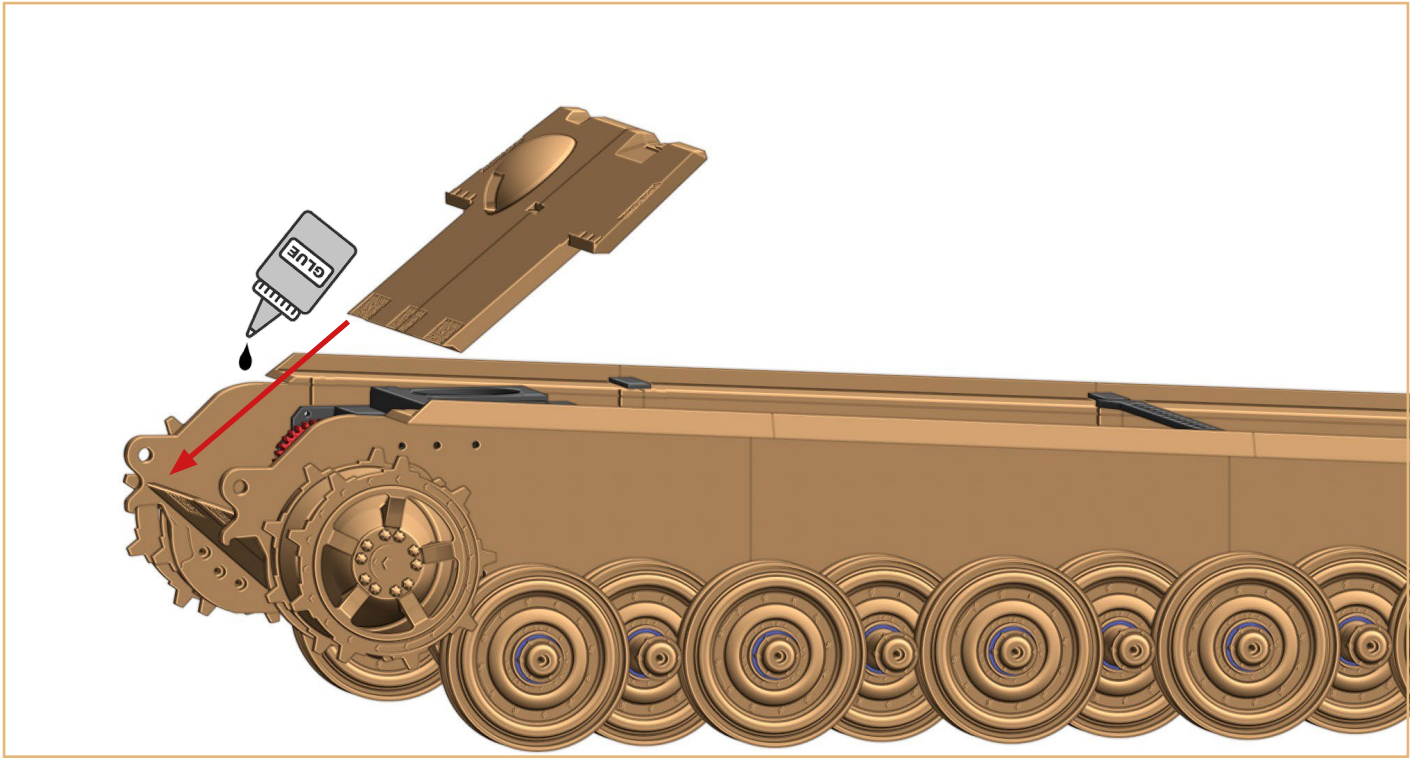
**Fenders:**

**4x screw M3 8 mm**

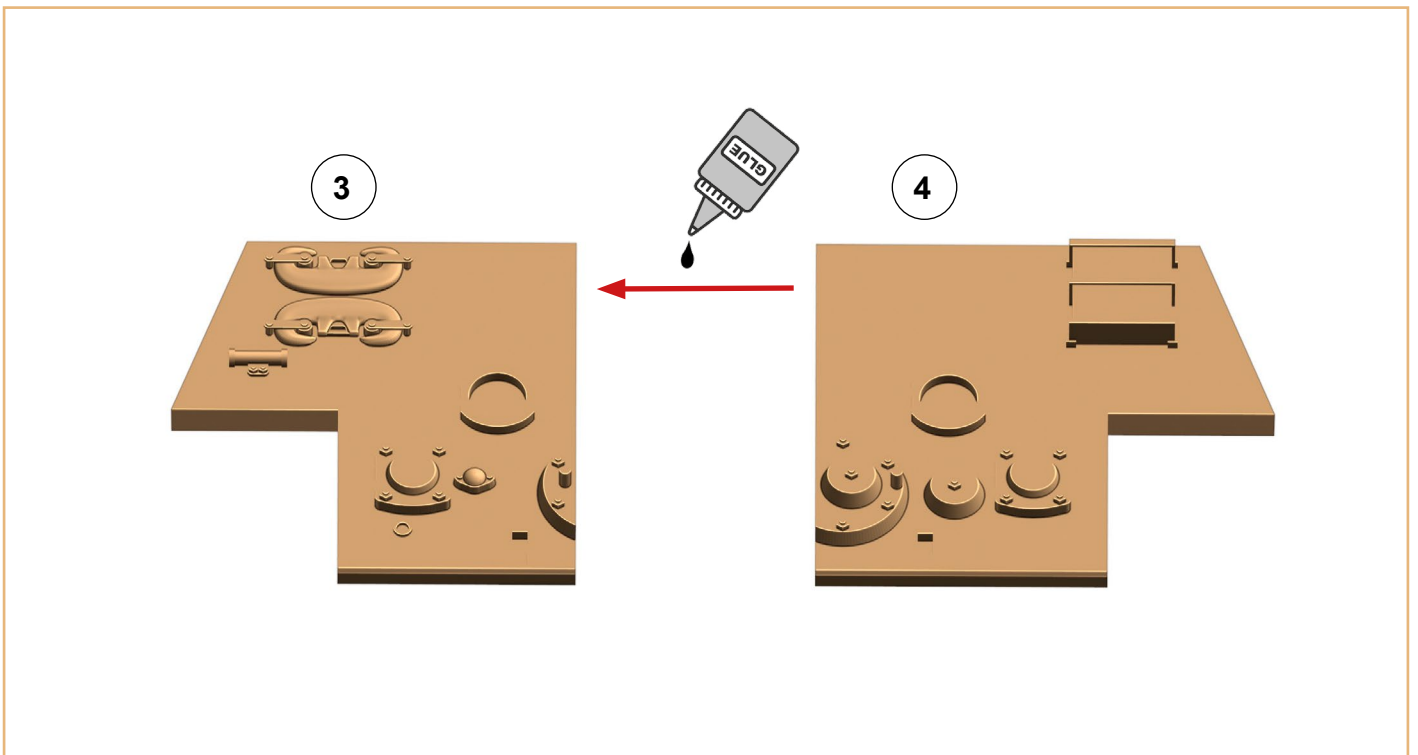


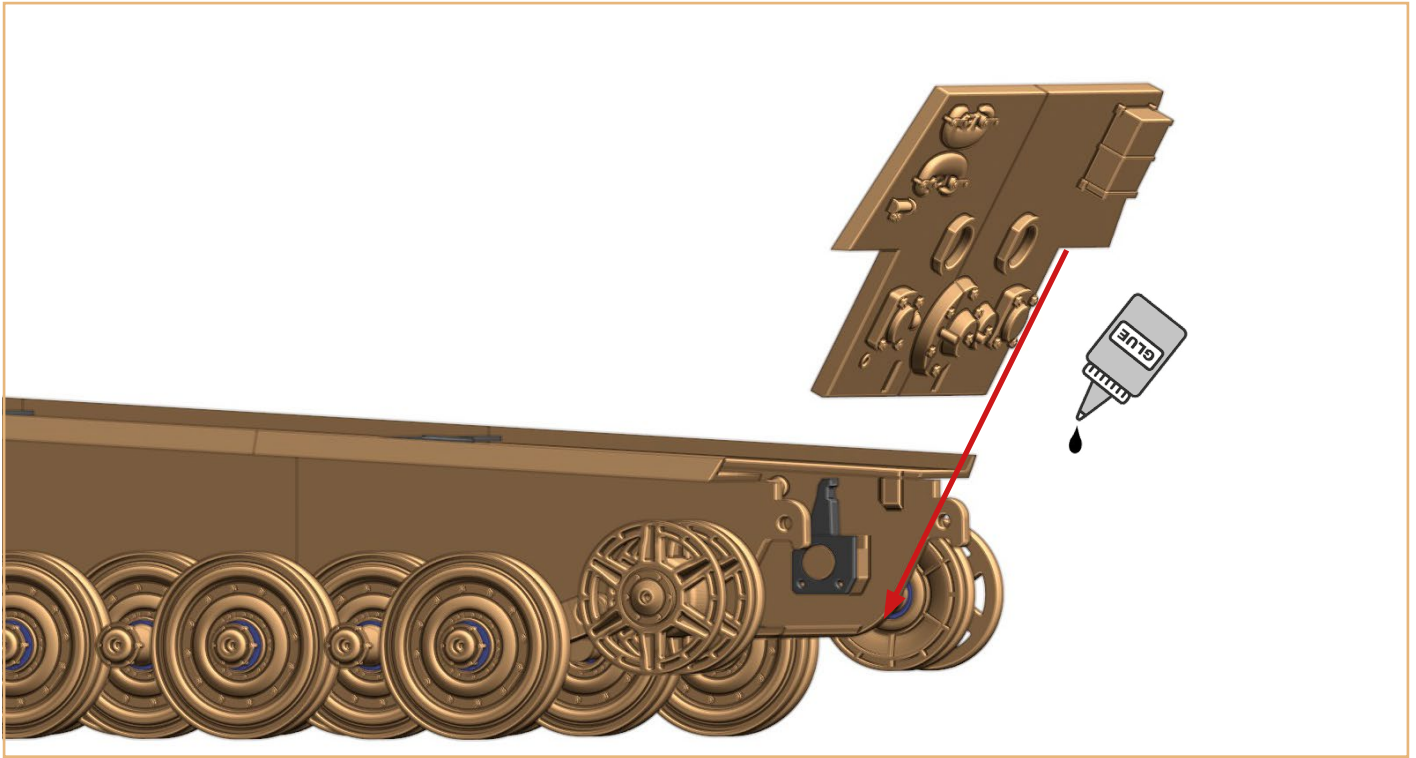
**Hull:**



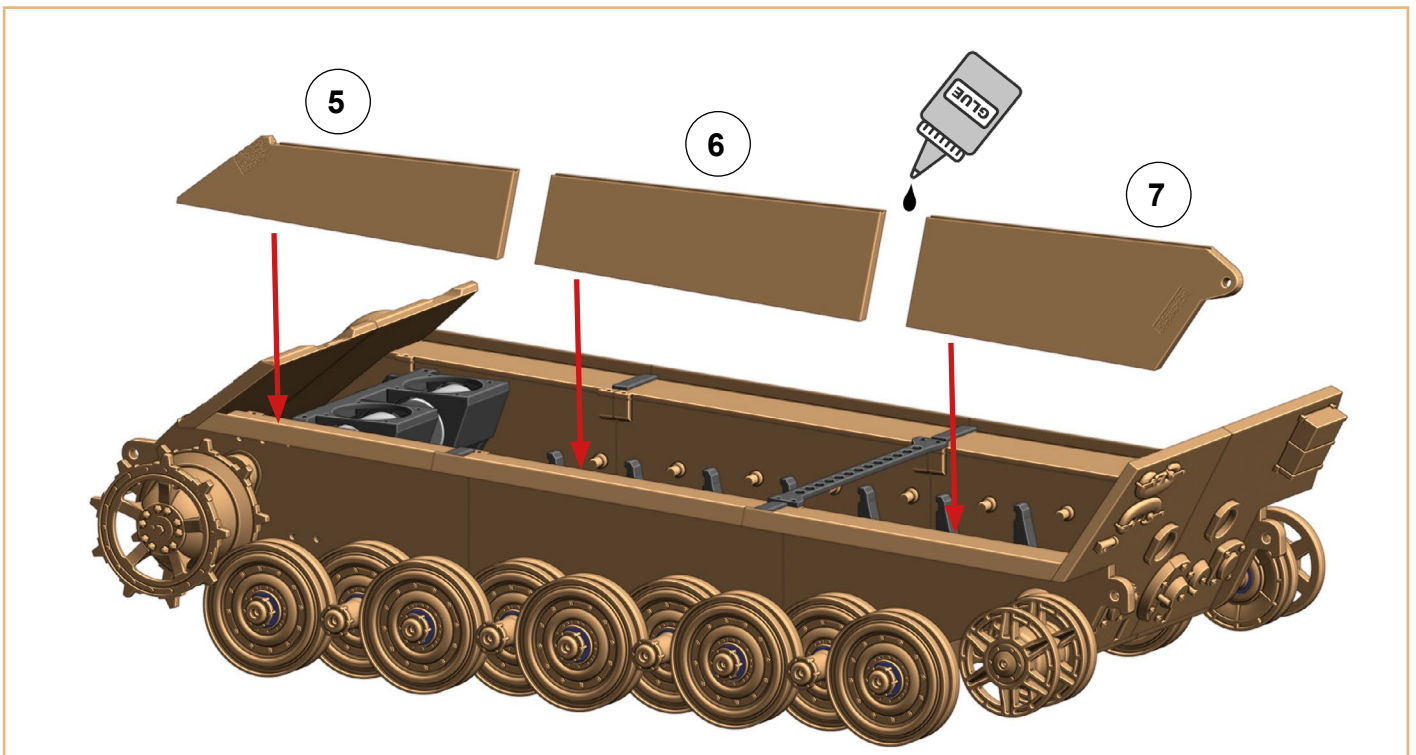


**Hull:**



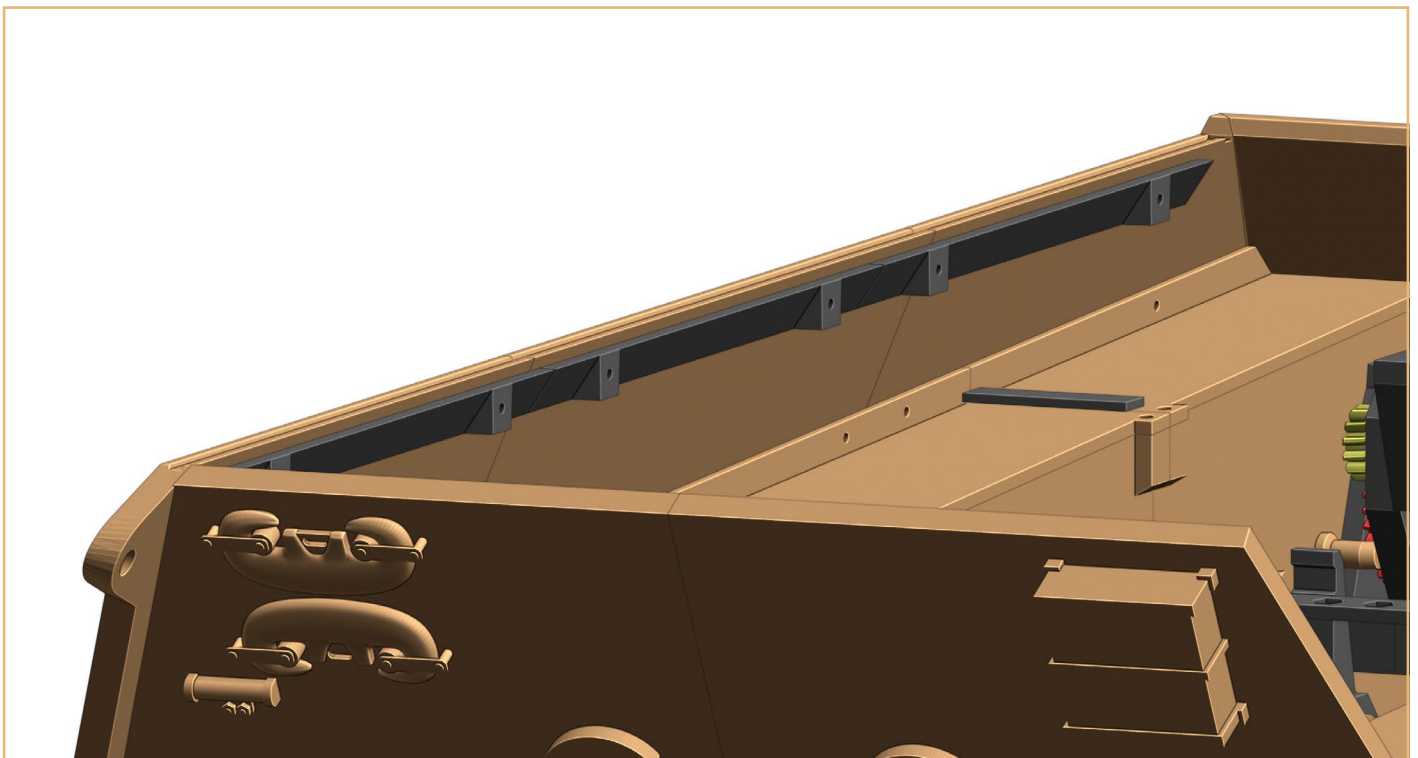
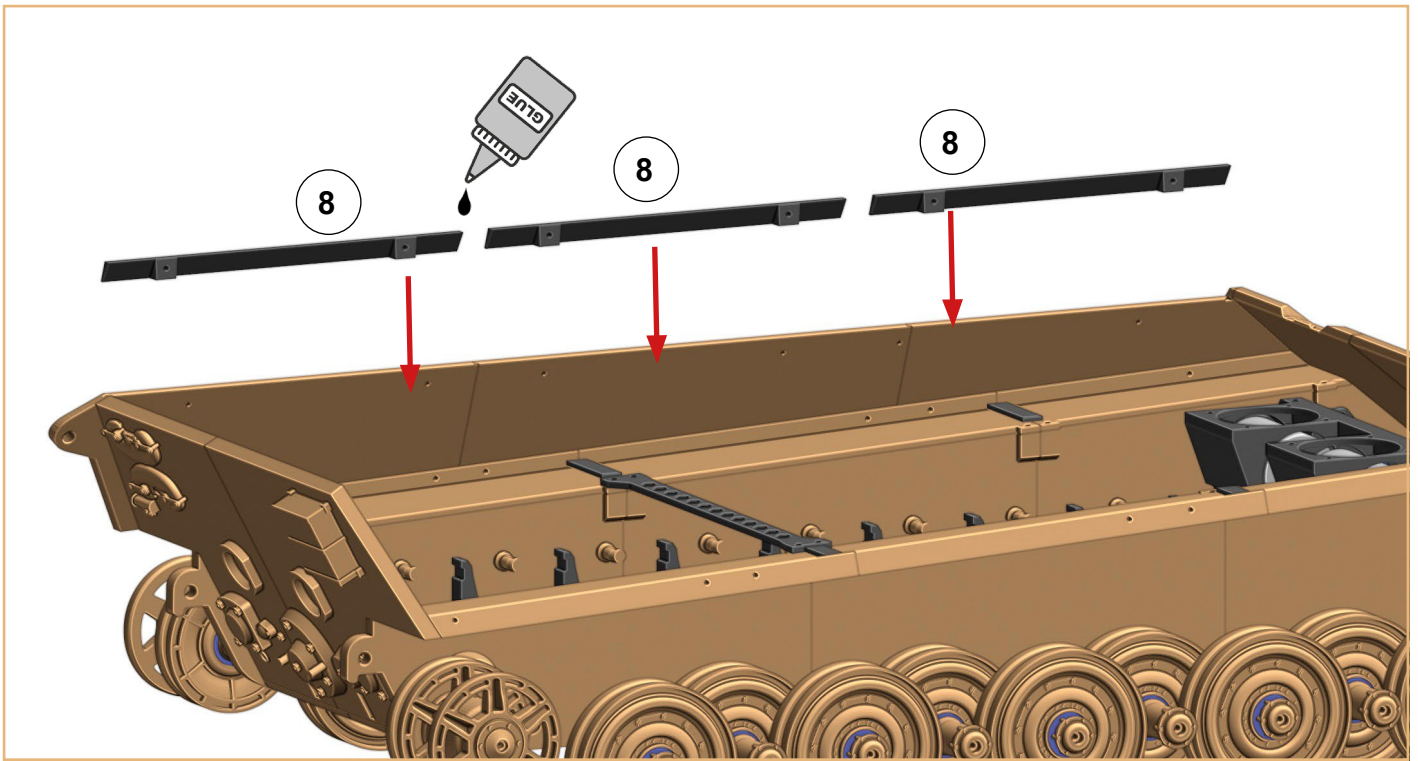


**Hull:**  
6x screw M2 8 mm



**Hull:**

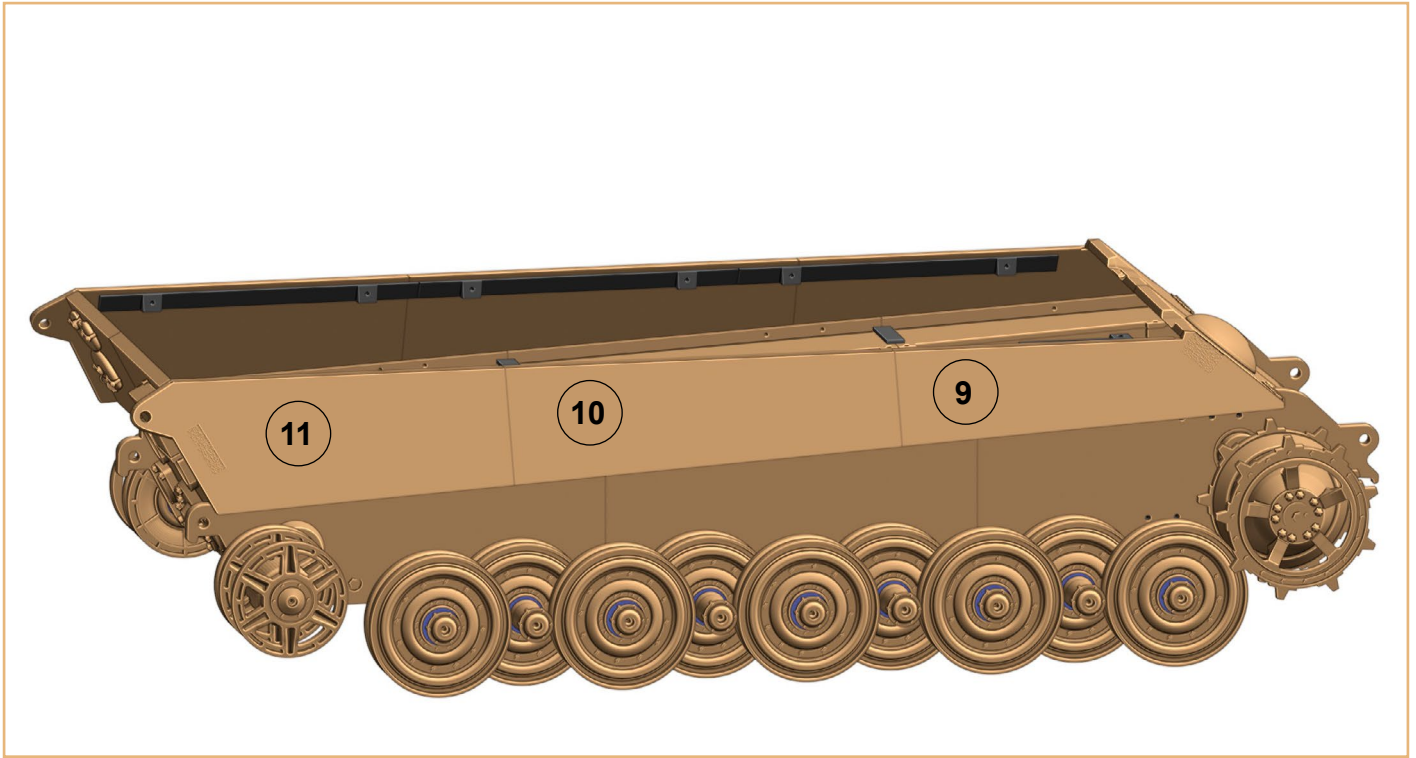
**6x screw M2 10 mm**



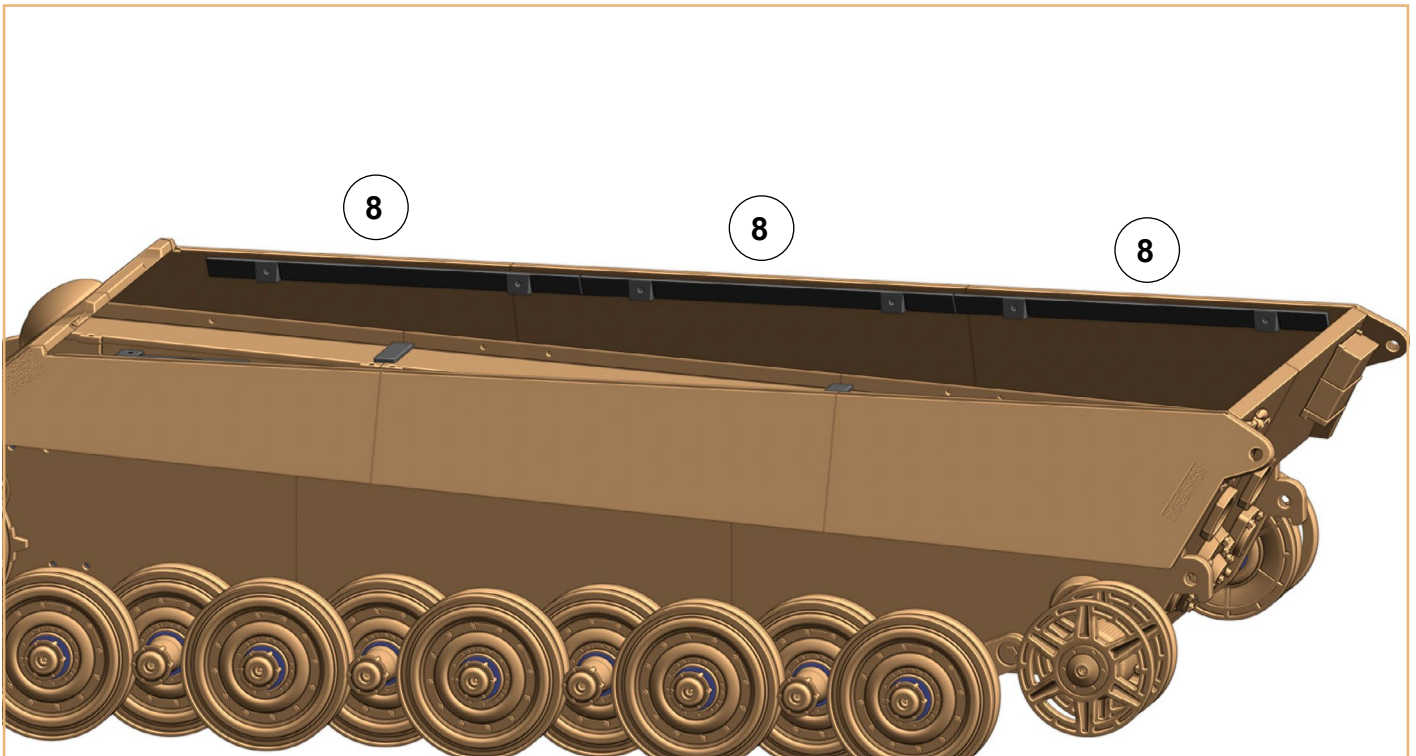


**Hull:**

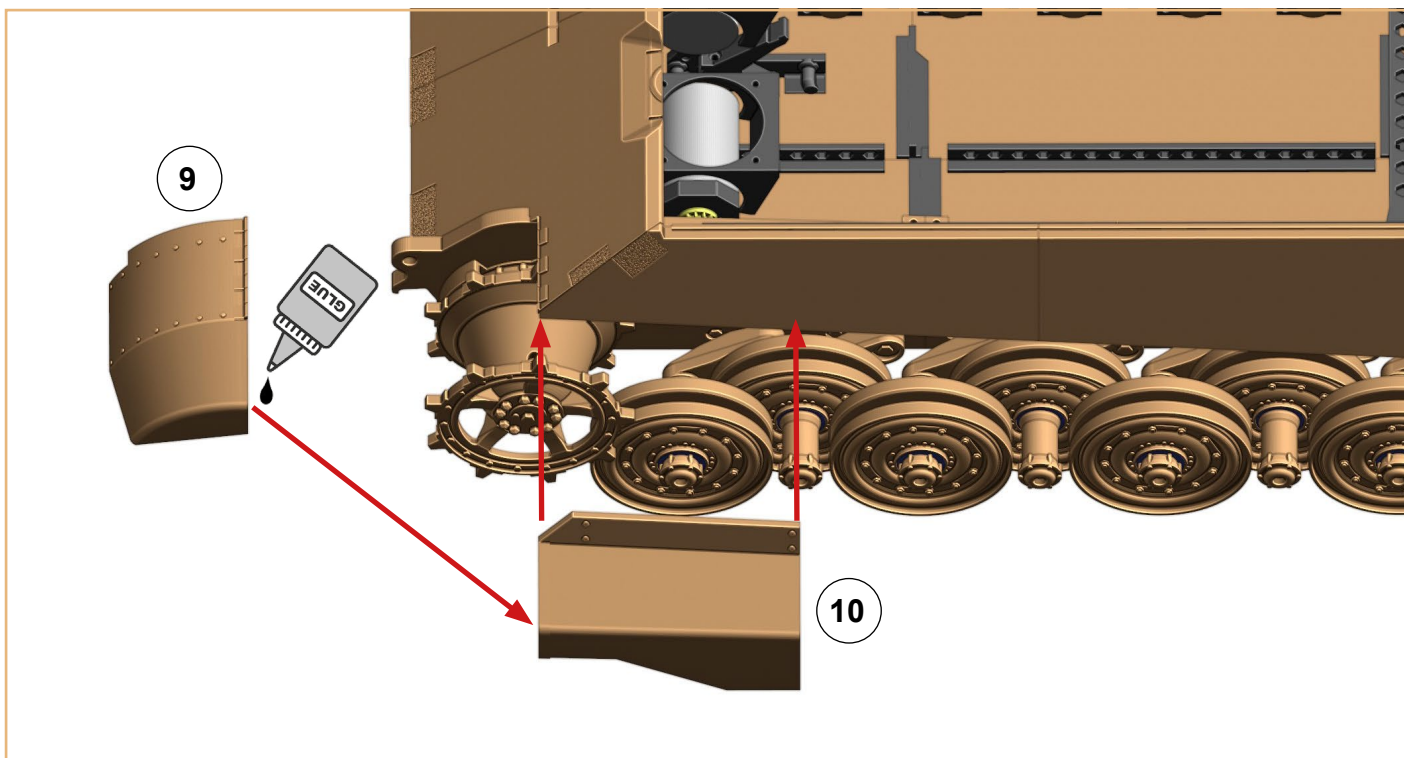
**6x screw M2 8 mm**



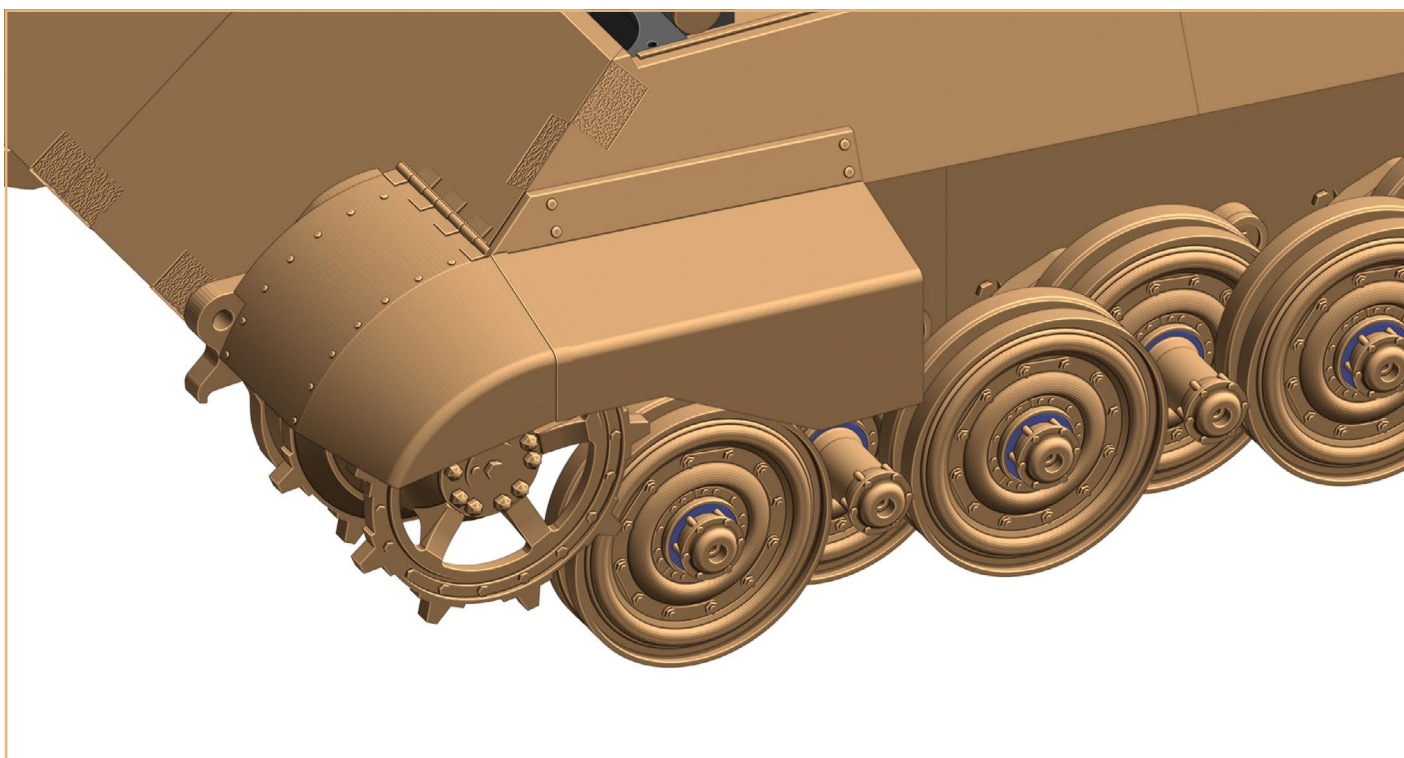
**6x screw M2 10 mm**



**Fenders:**

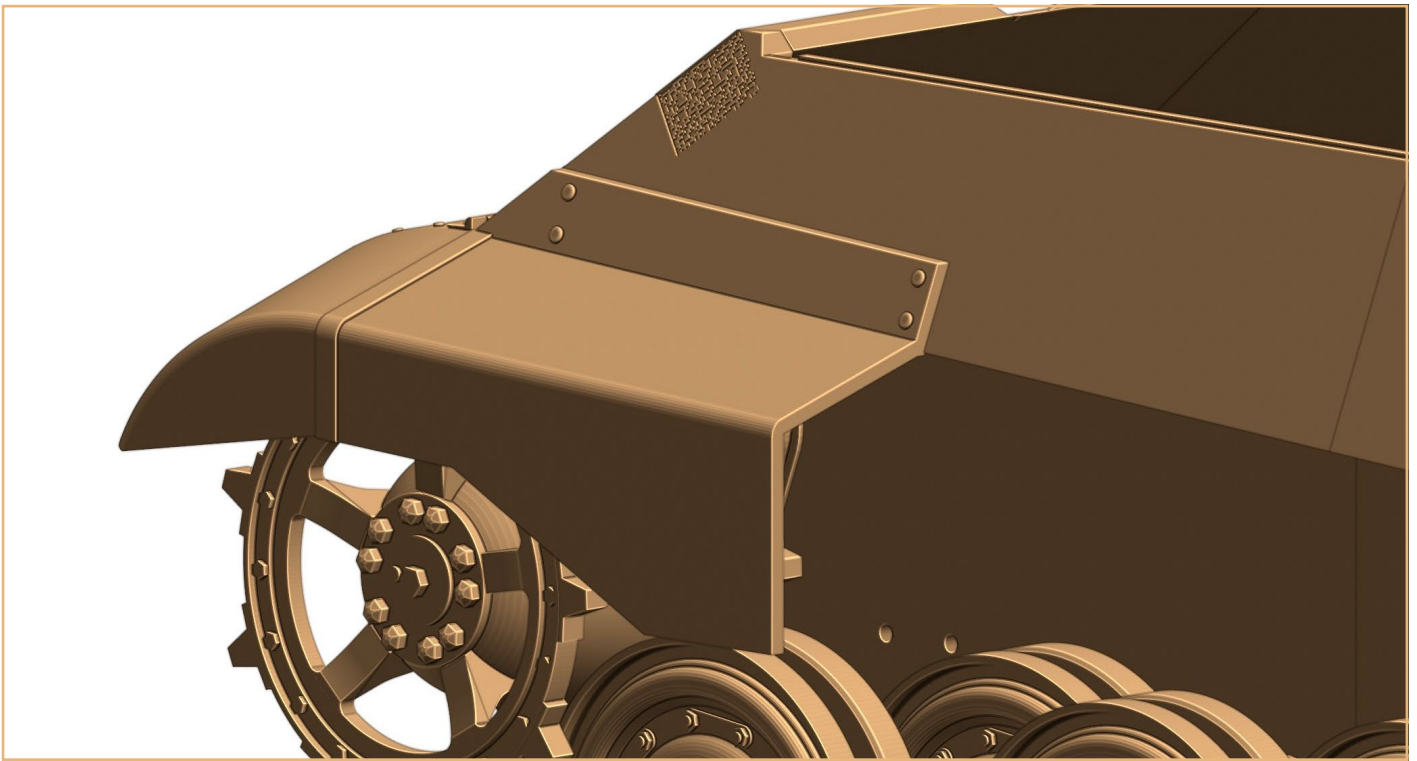


**Exact position:**

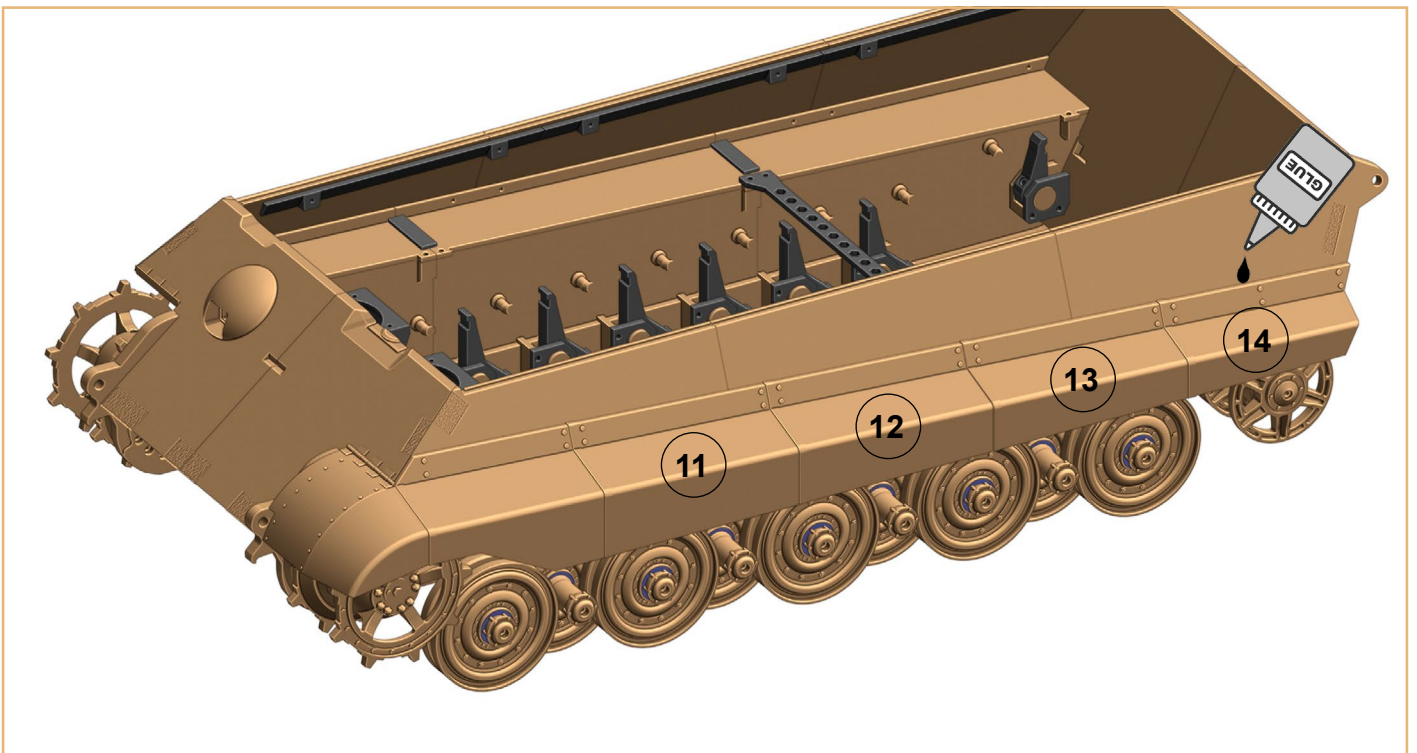




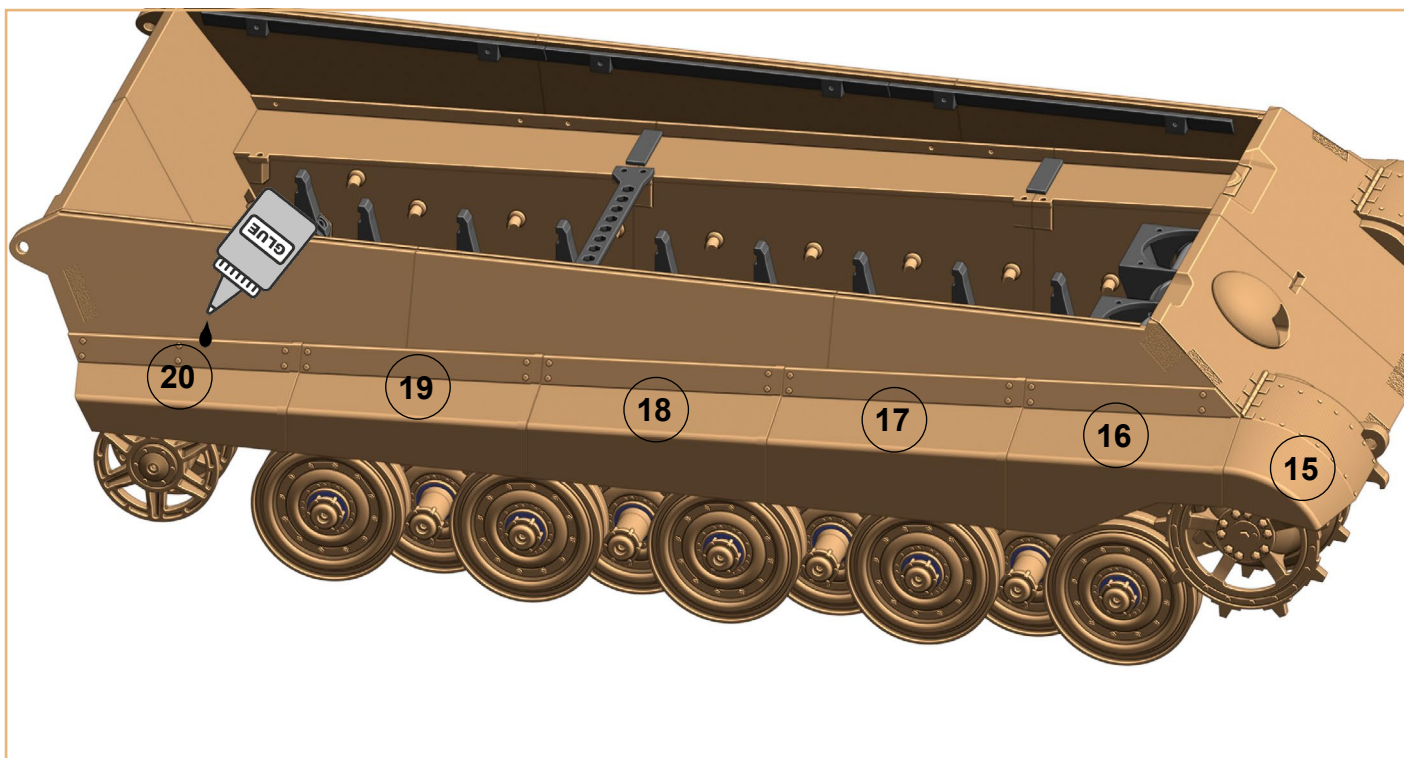
**Exact position:**



**Fenders:**

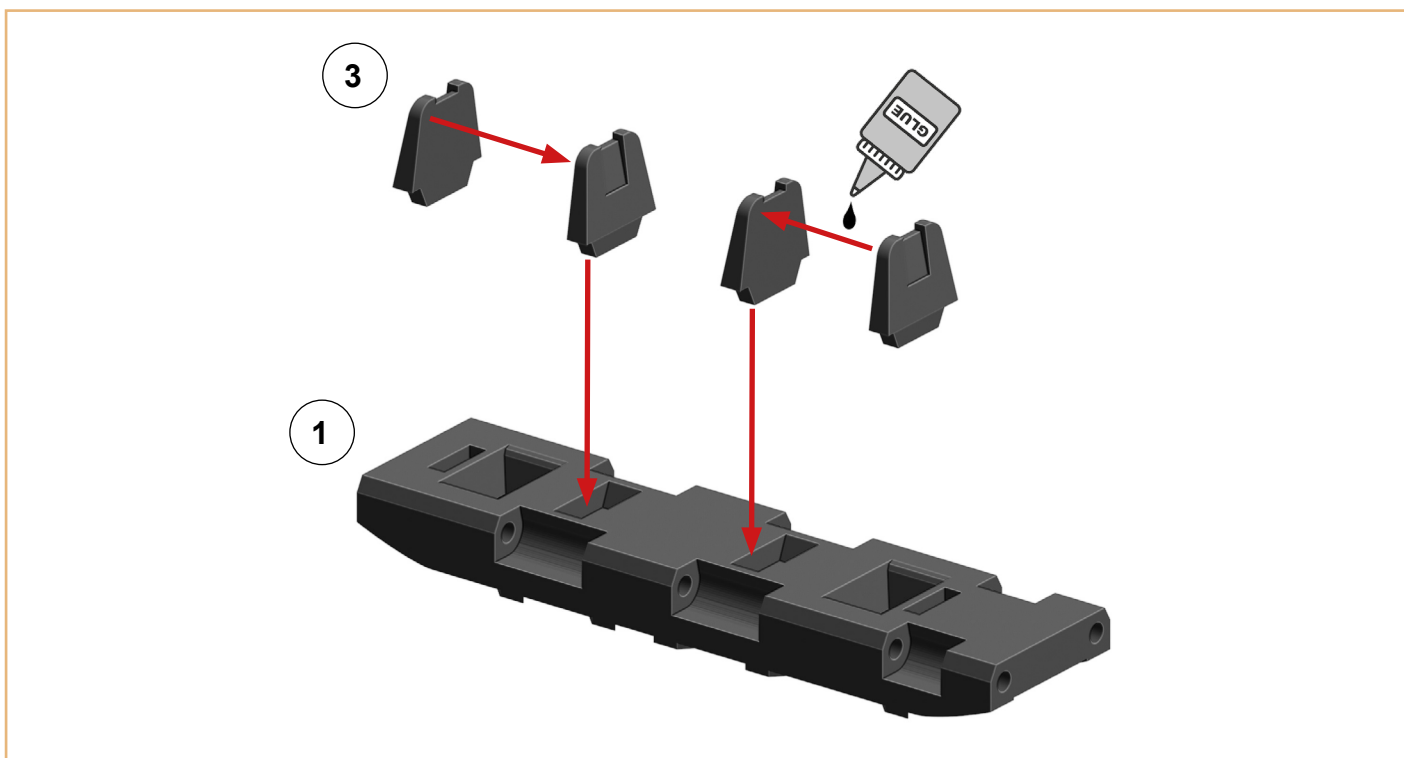


**Fenders:**



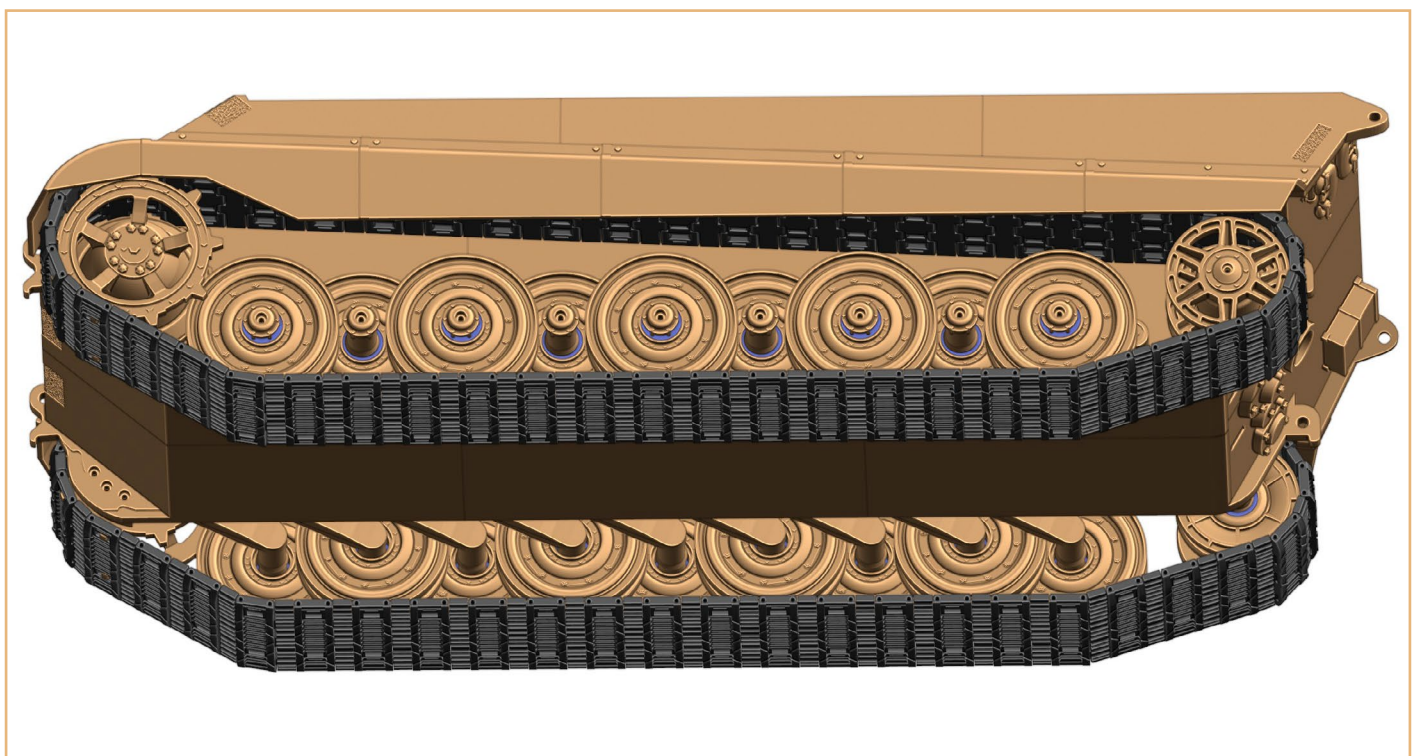
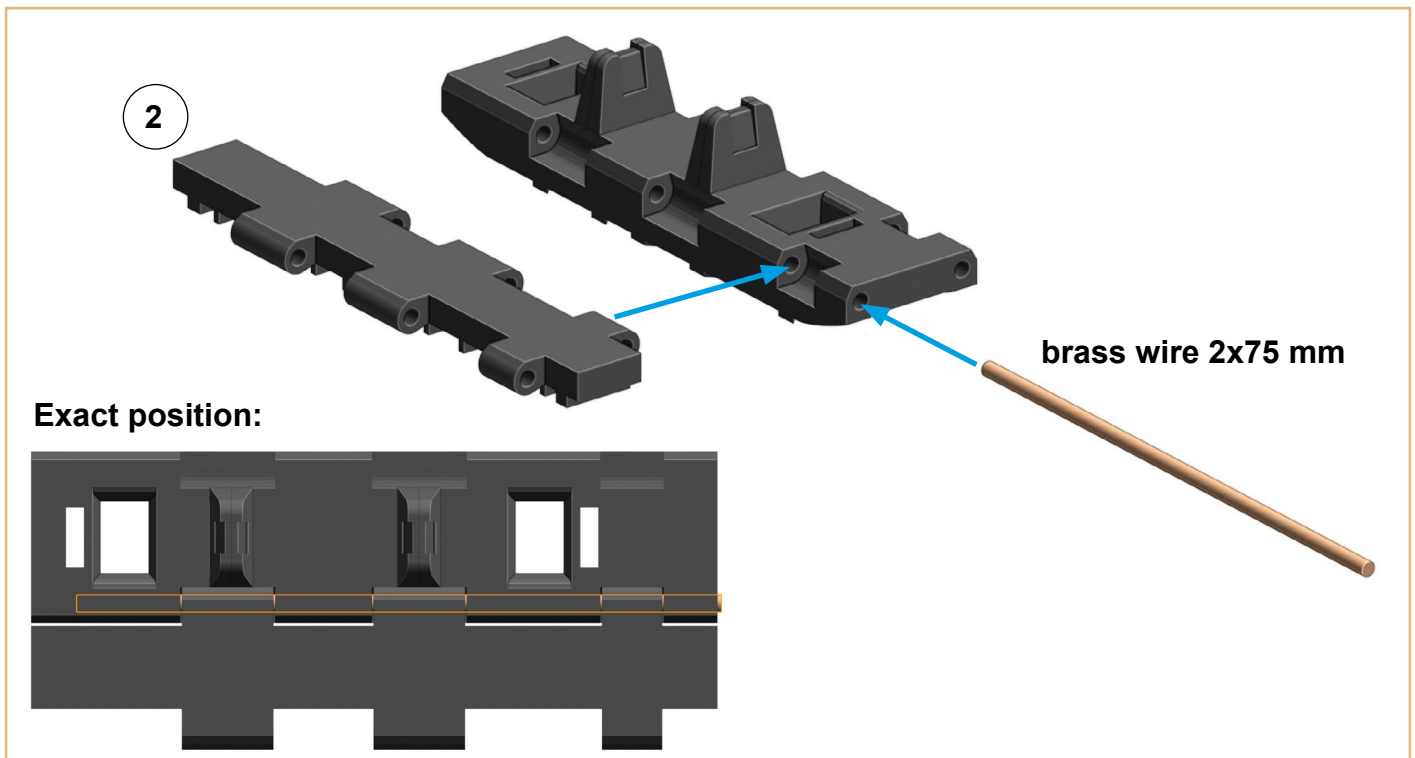
**Tracks:**

**92x**

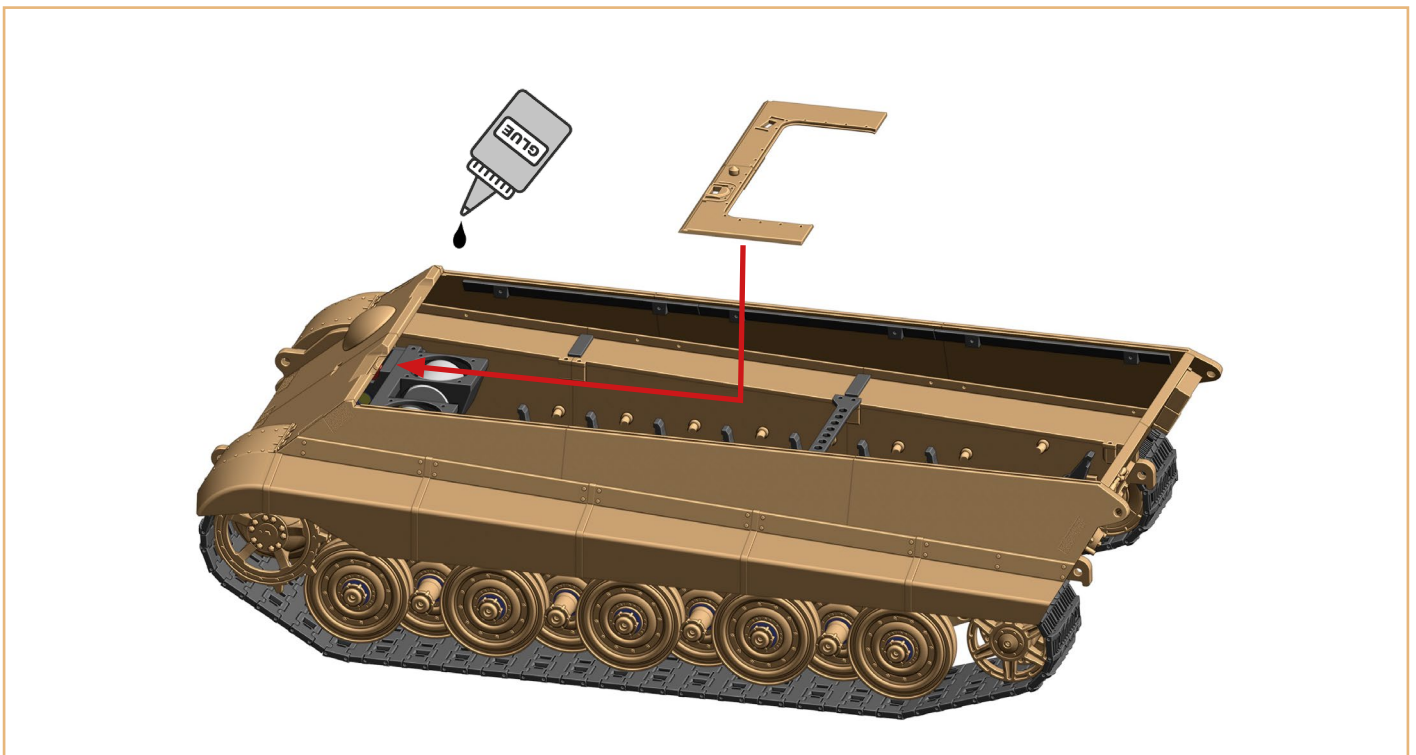
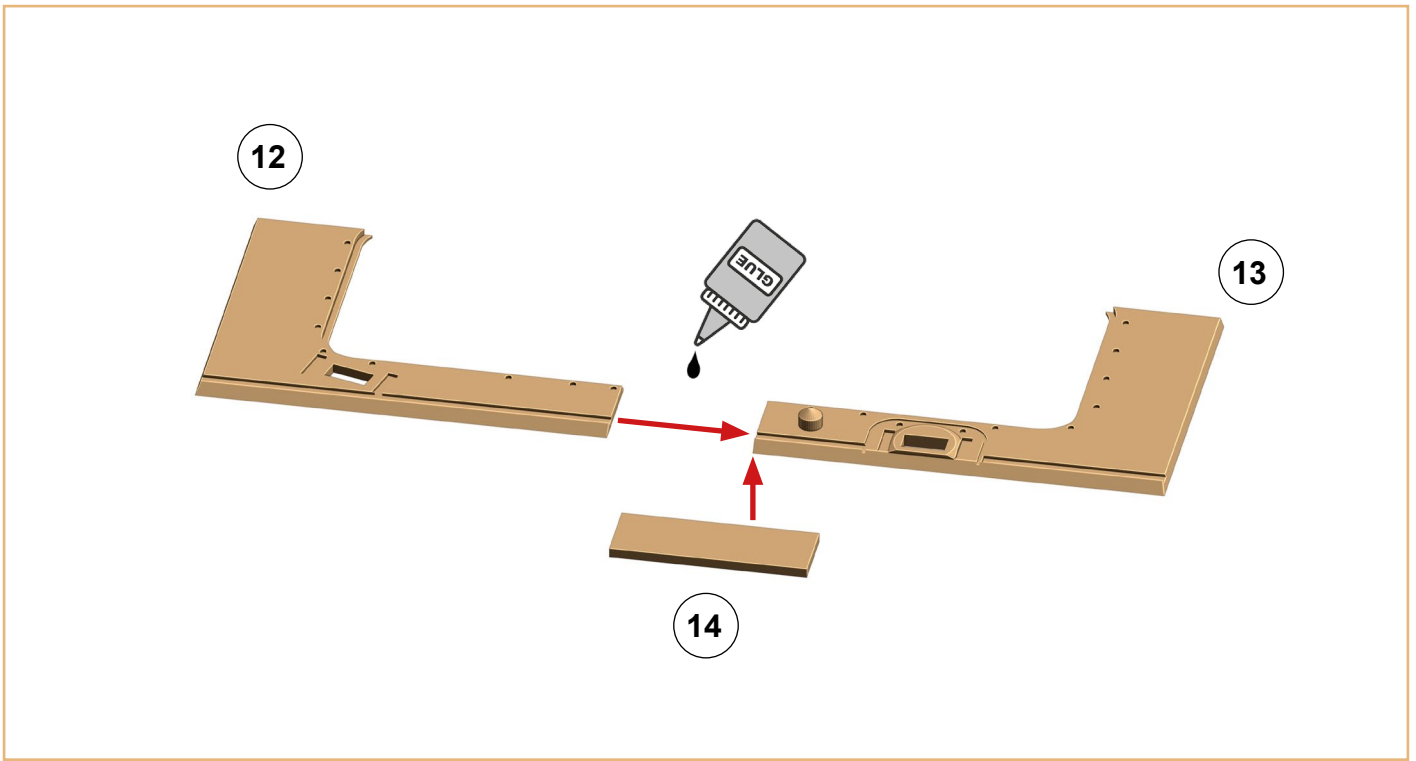


**Tracks:**

**92x**

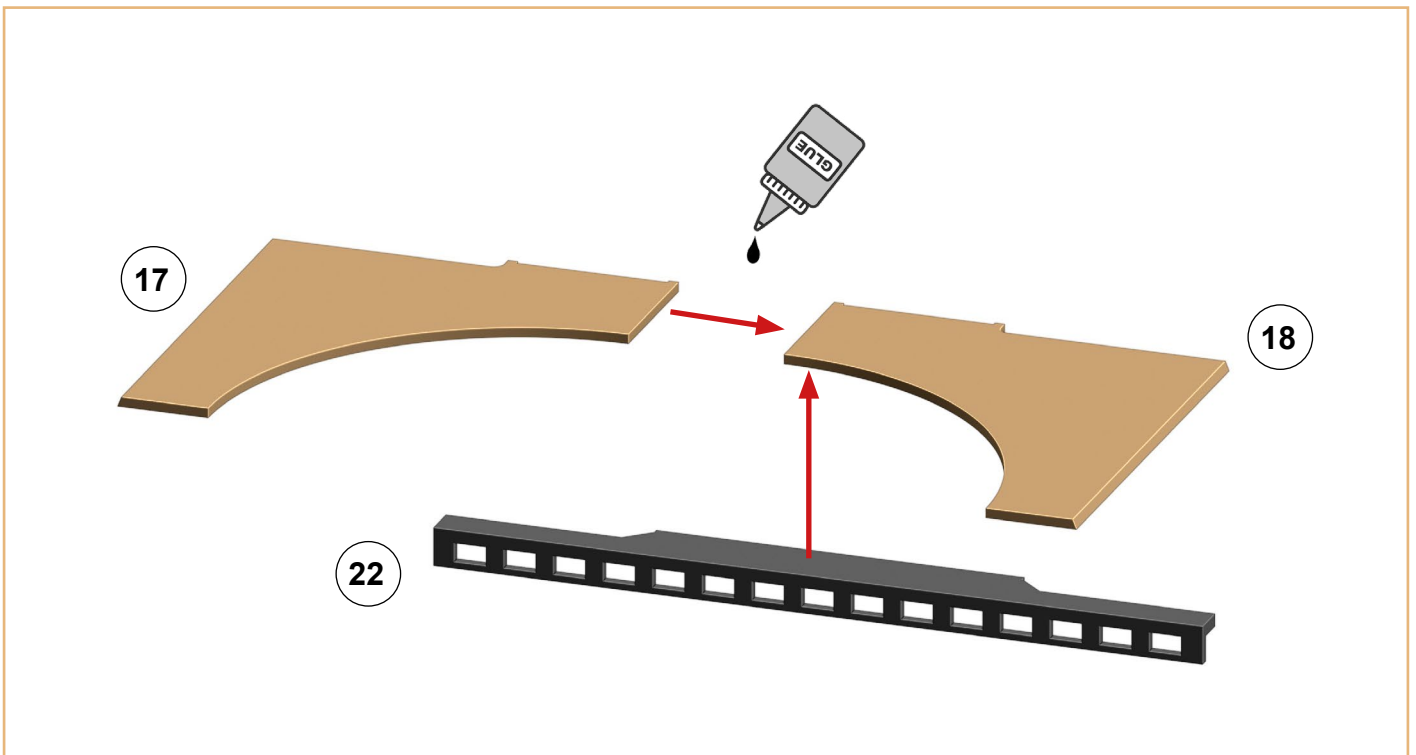
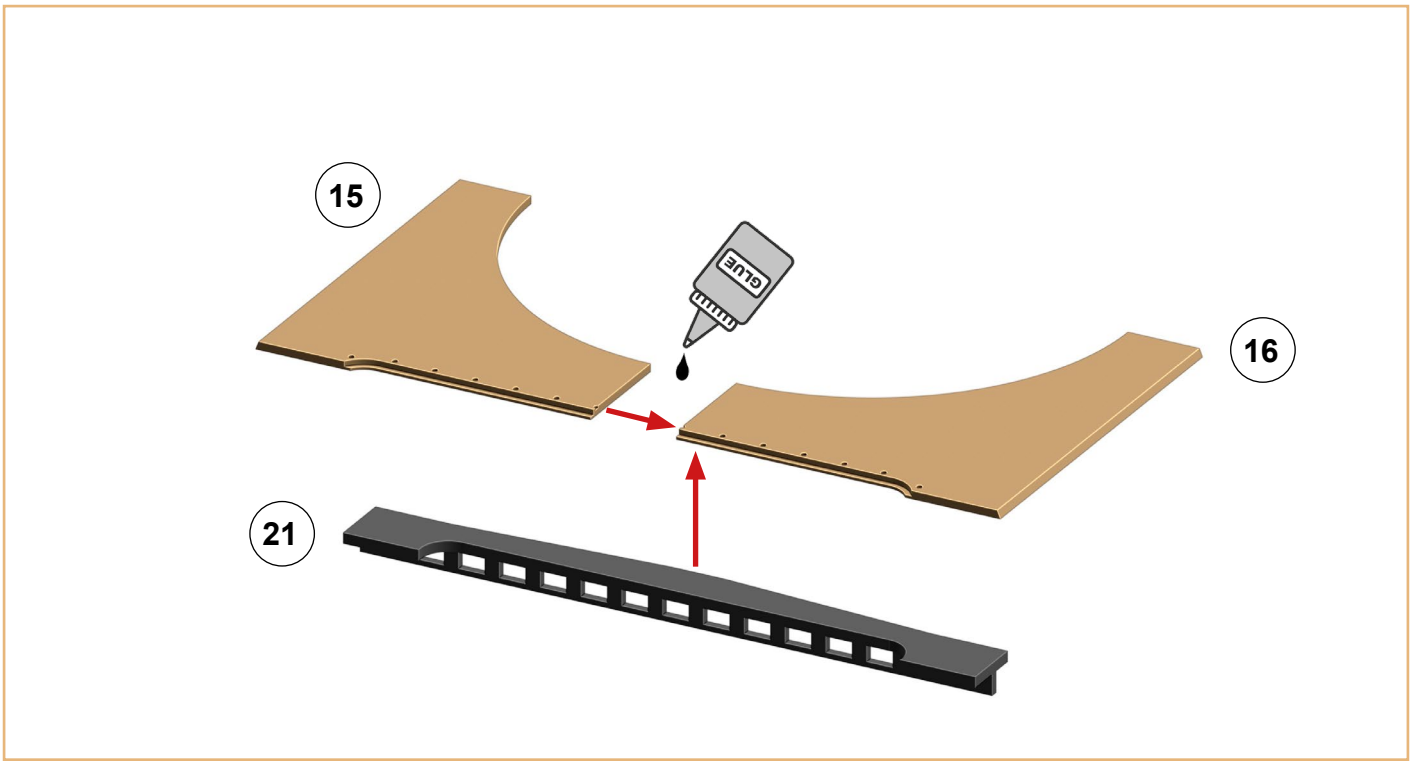


Hull:



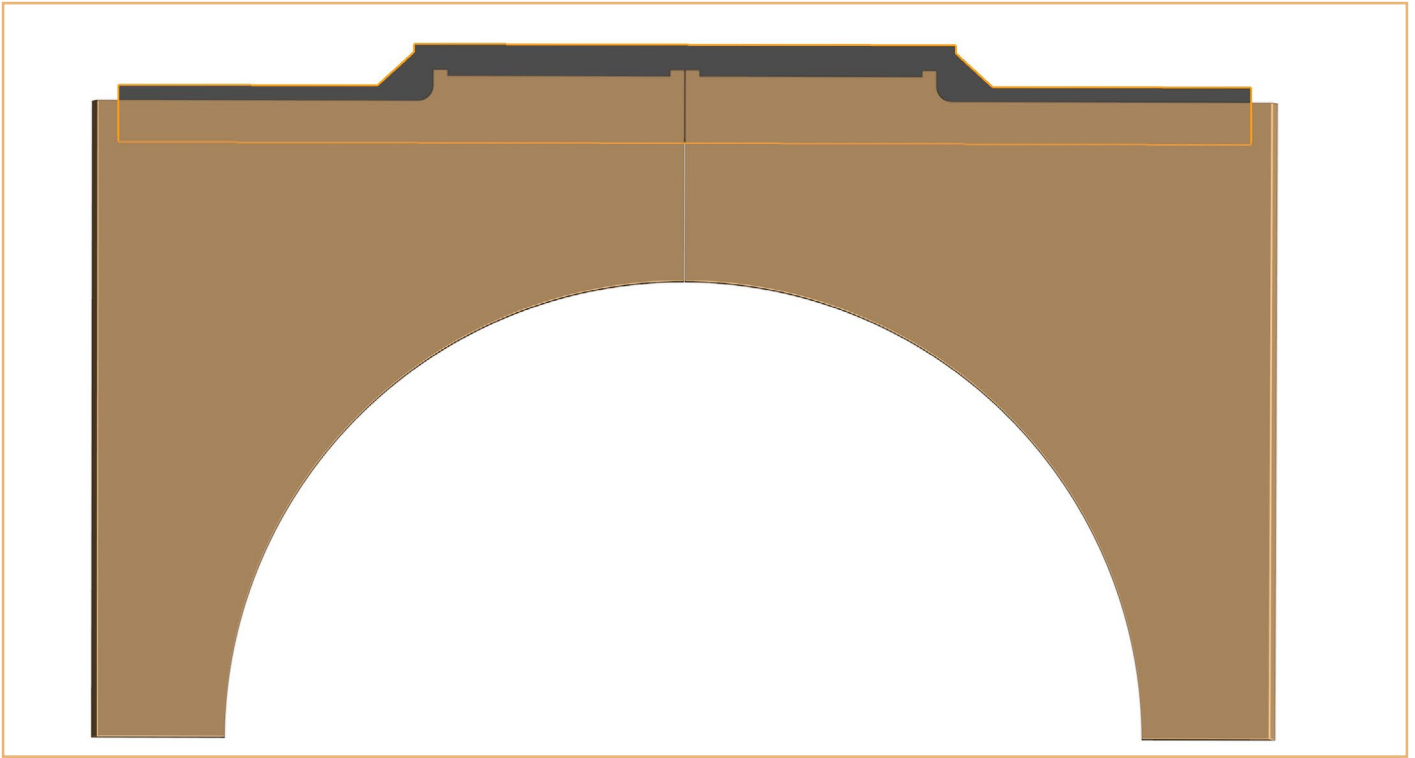


Hull:

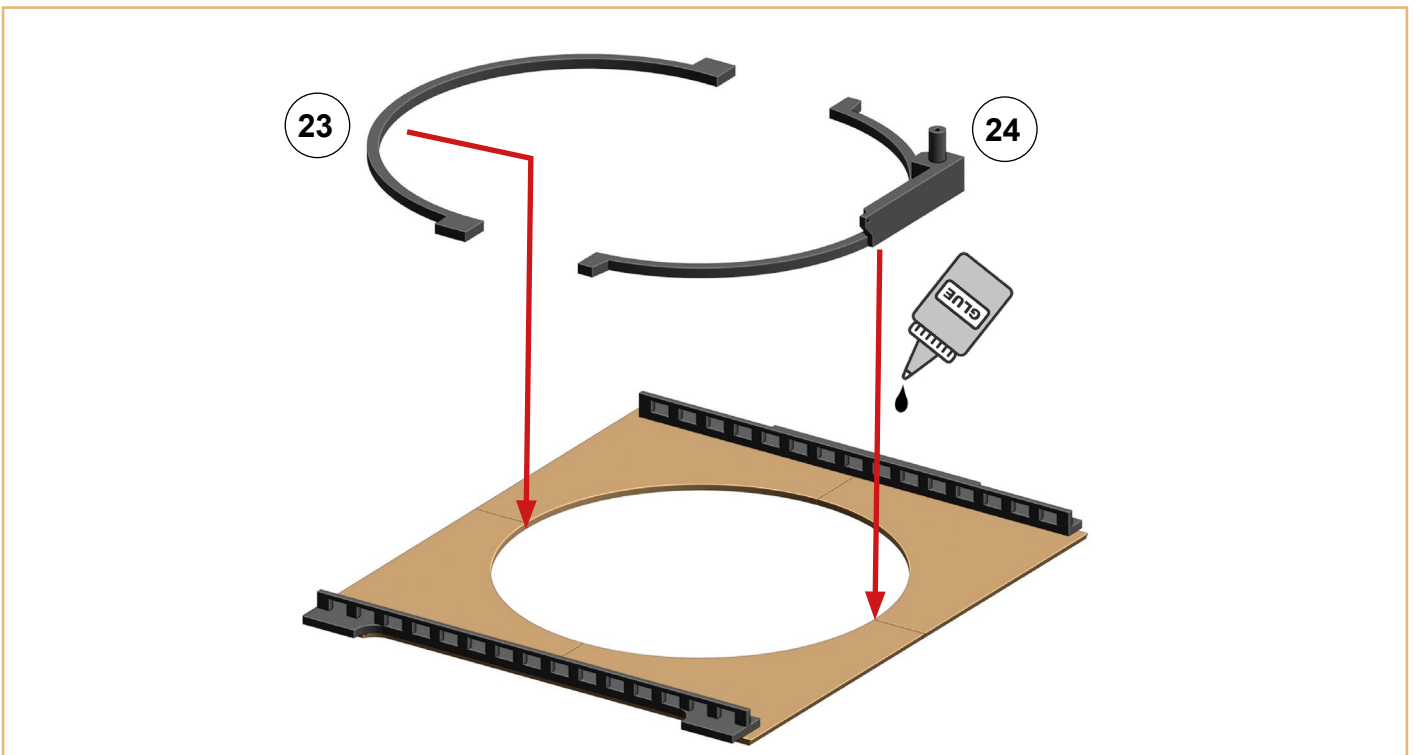




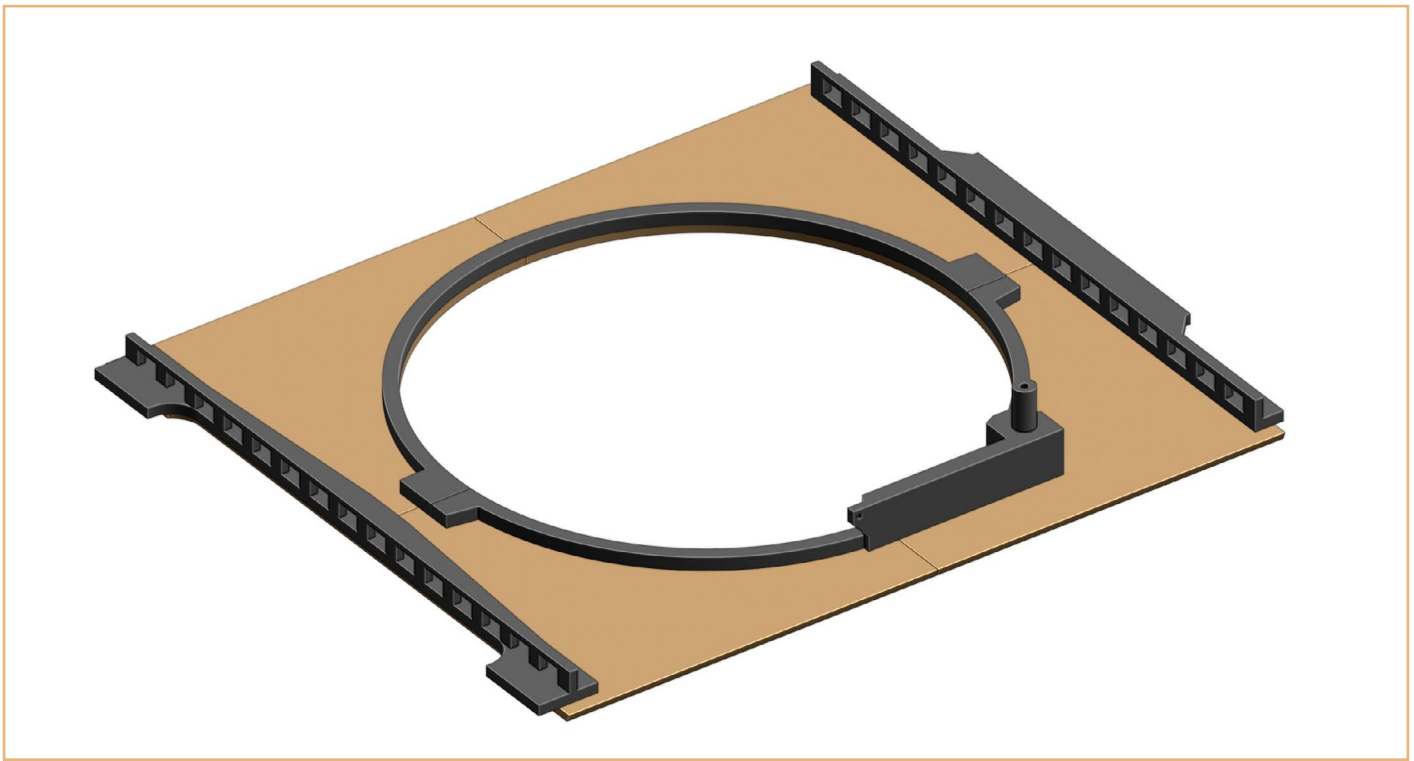
**Exact position:**



**Hull:**

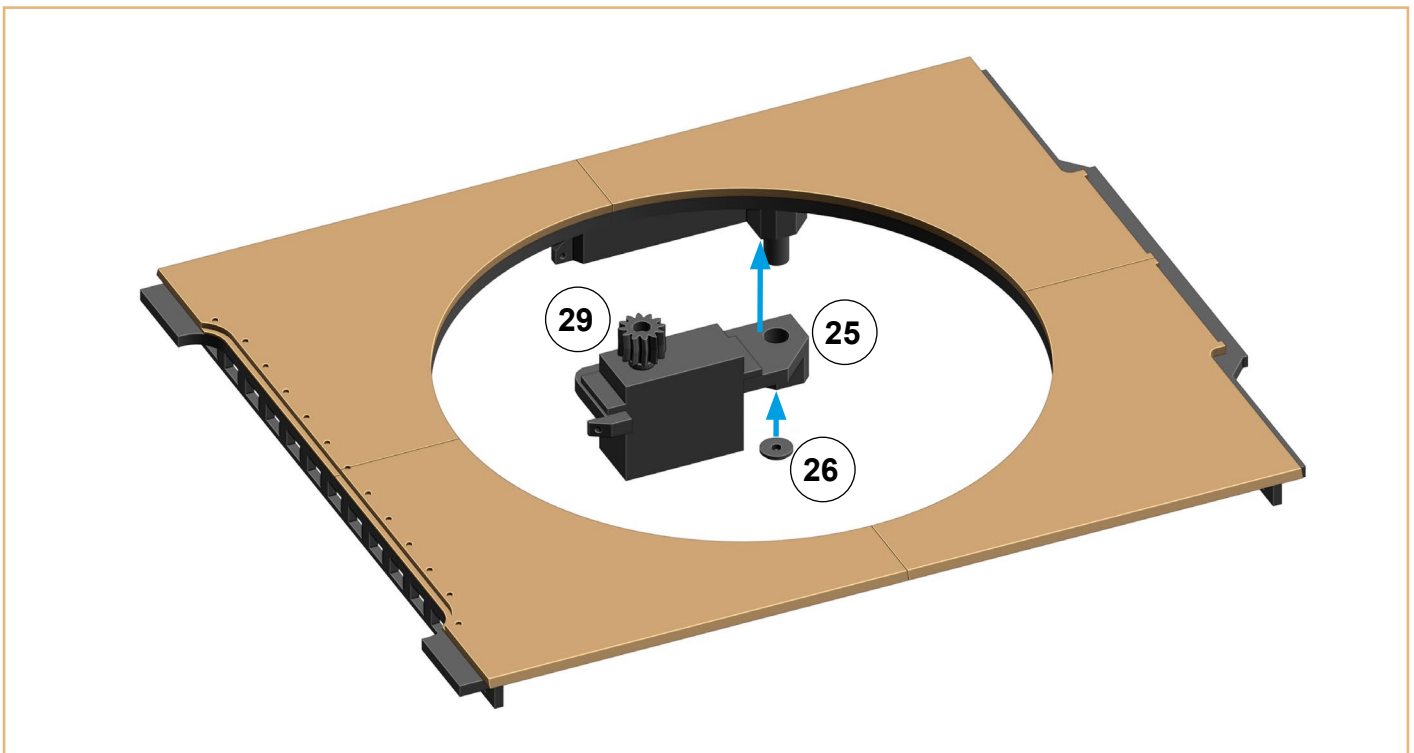


**Exact position:**

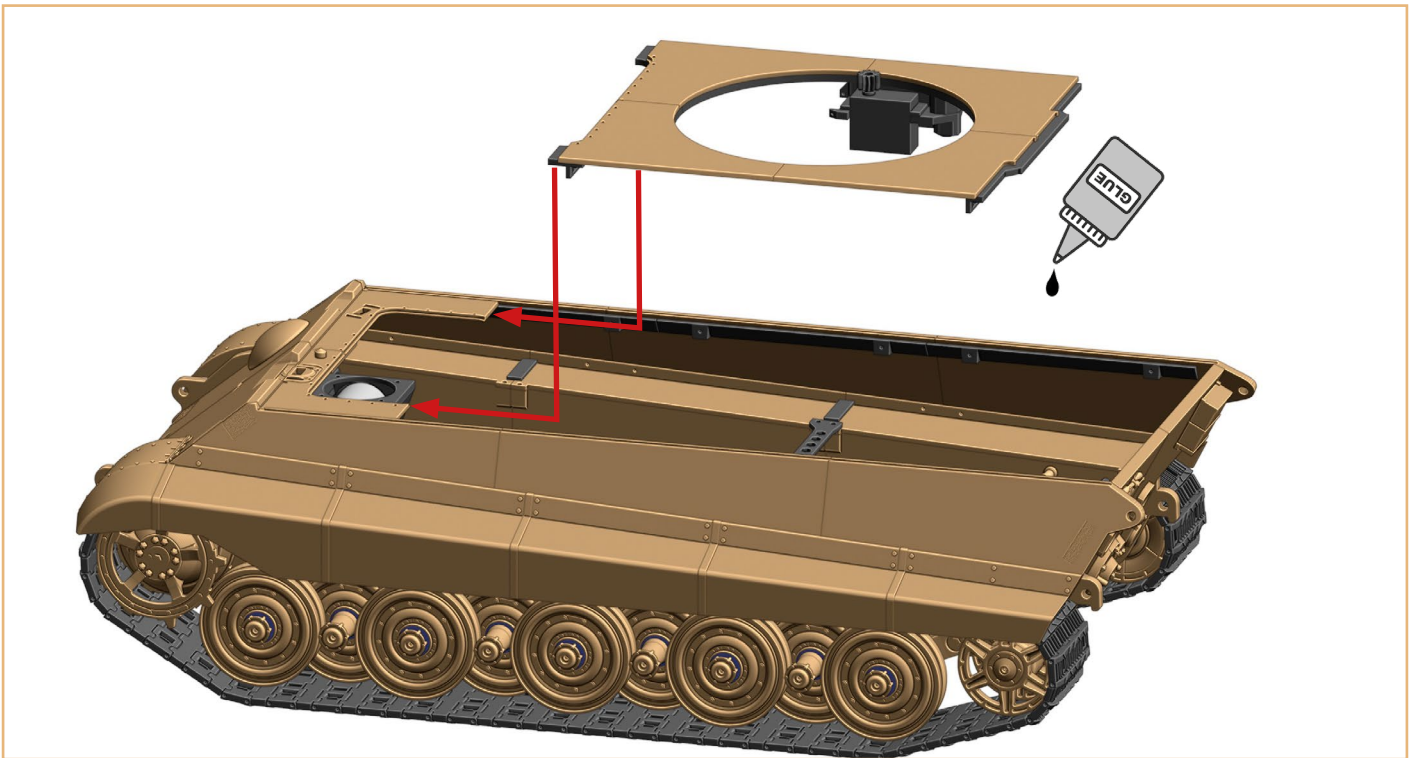
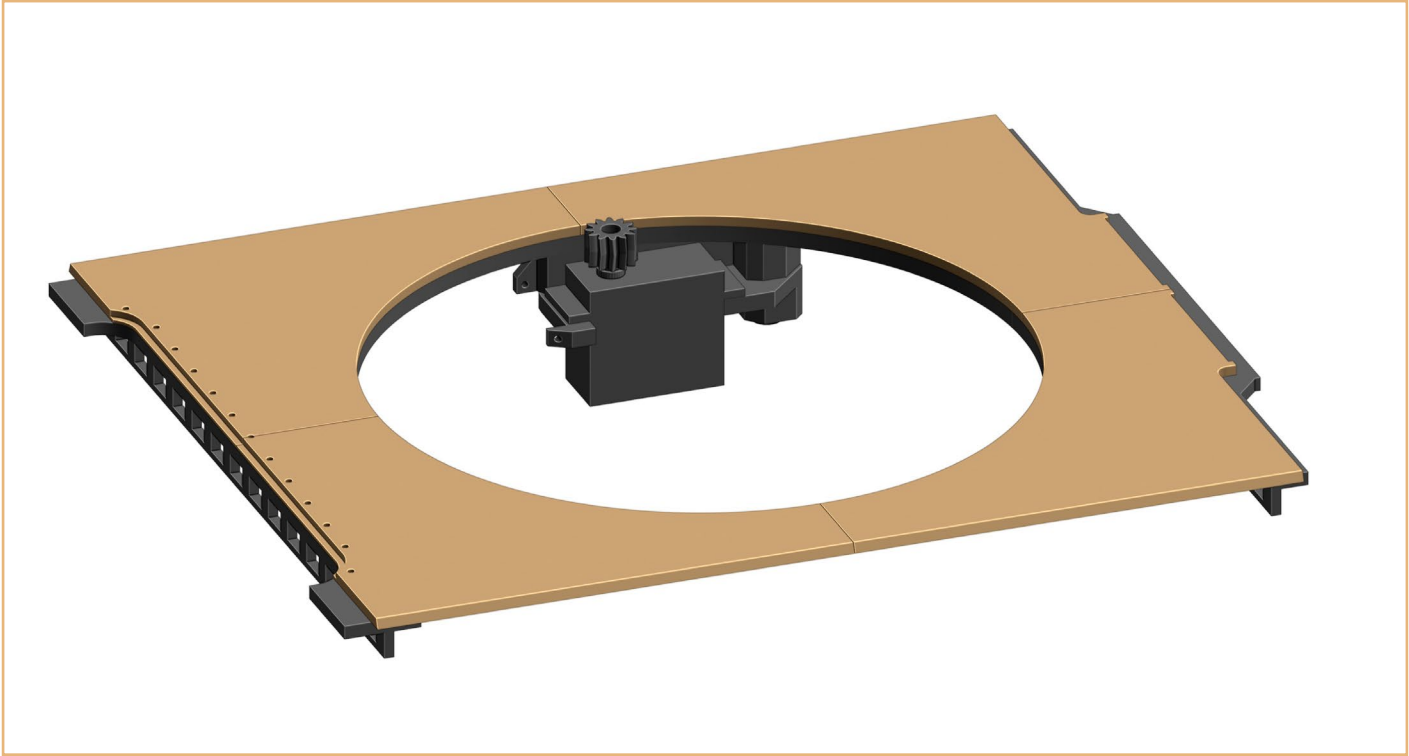


**Hull:**

**screw M3 8 mm, tension spring (3x12 mm etc.), Hi-tec servo standard size**

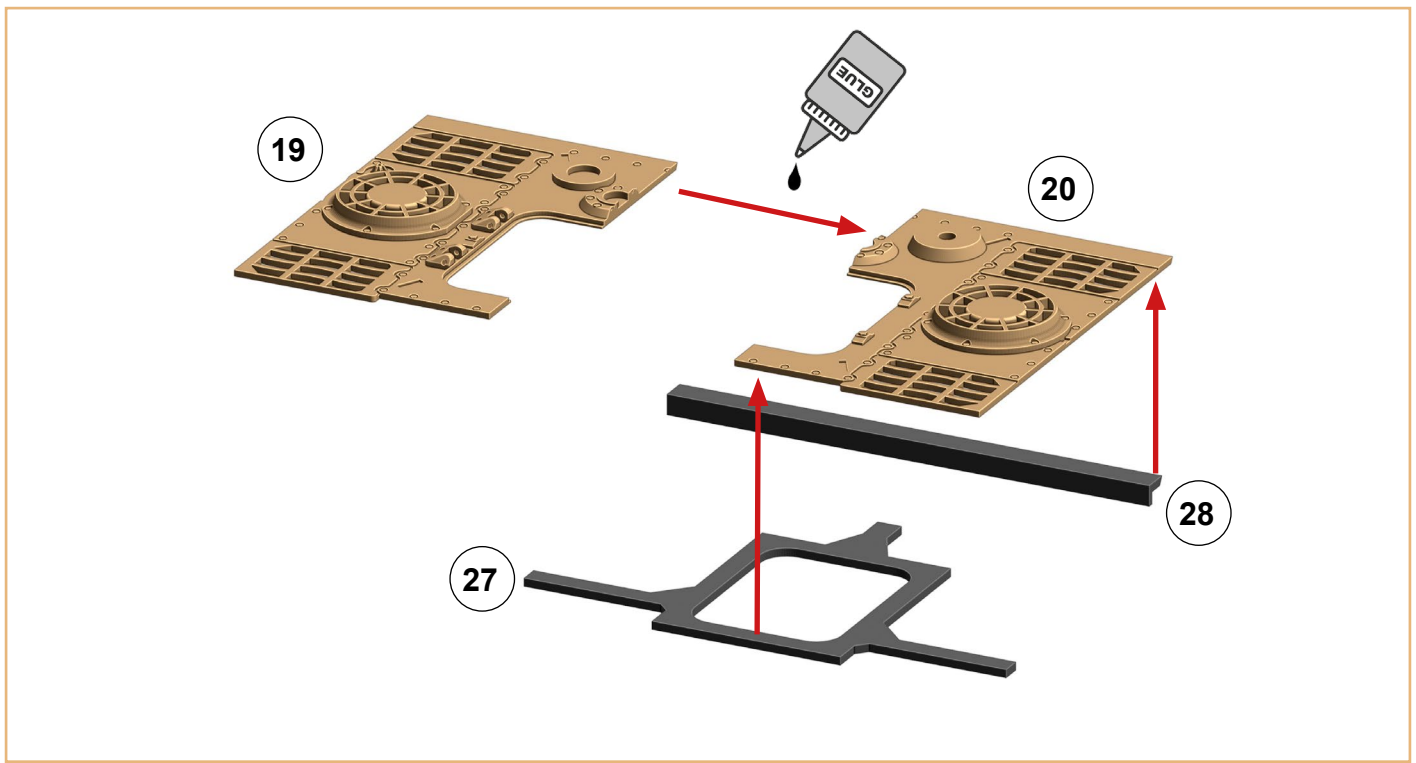




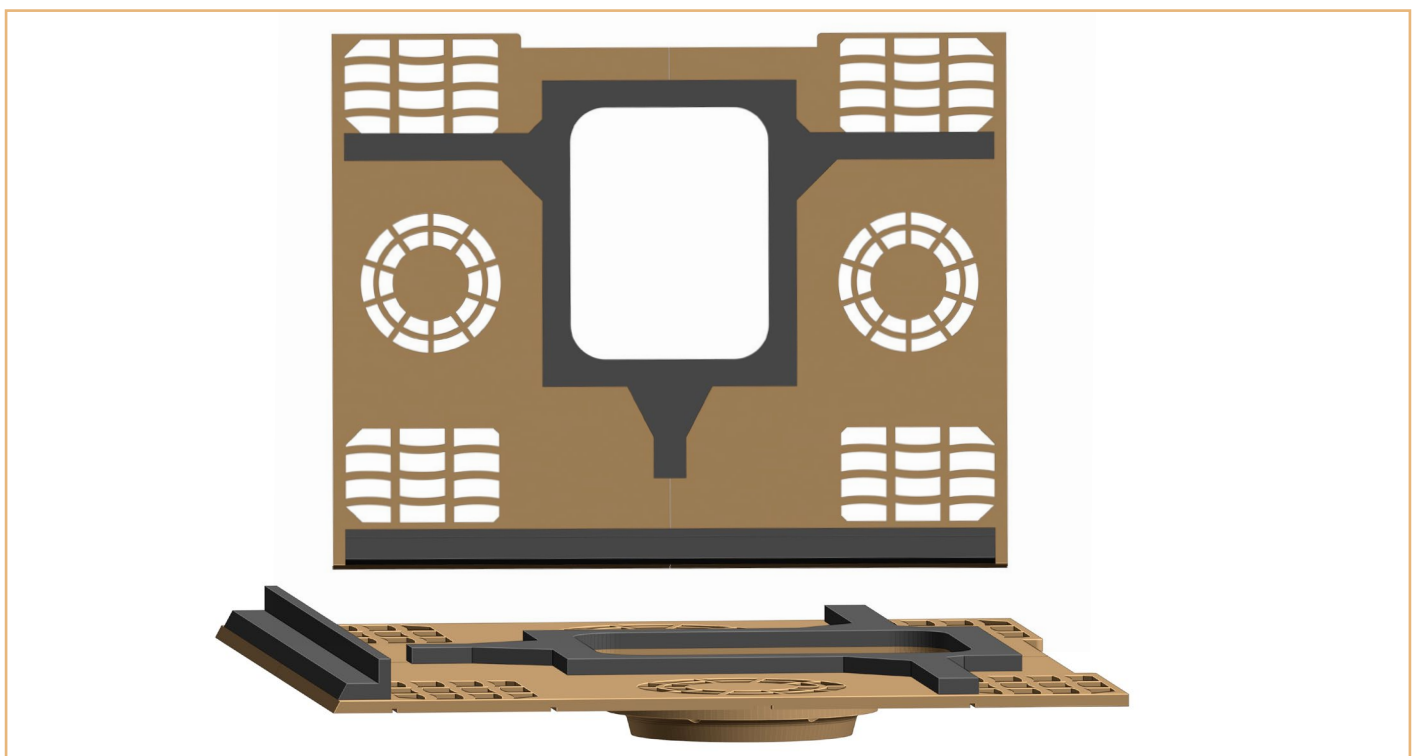




**Hull:**

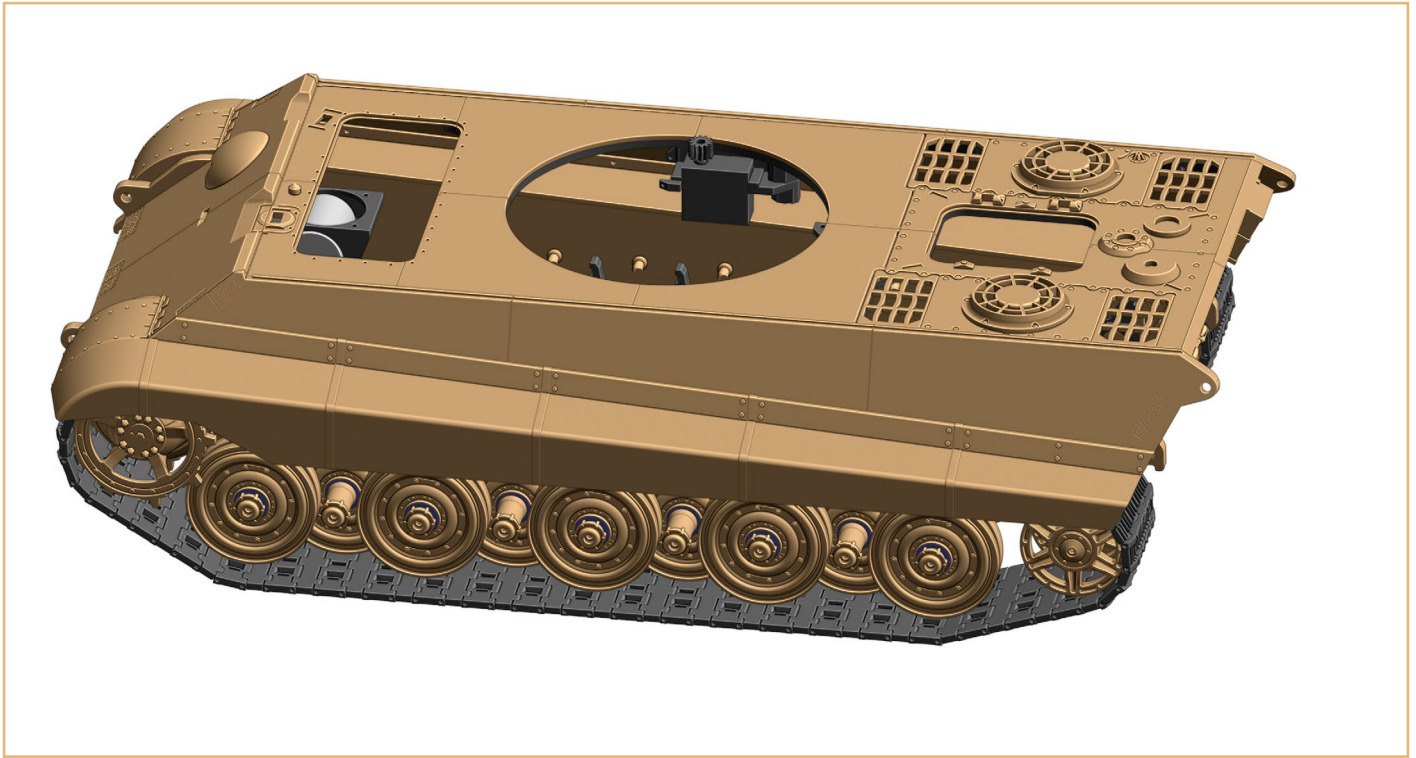


**Exact position:**

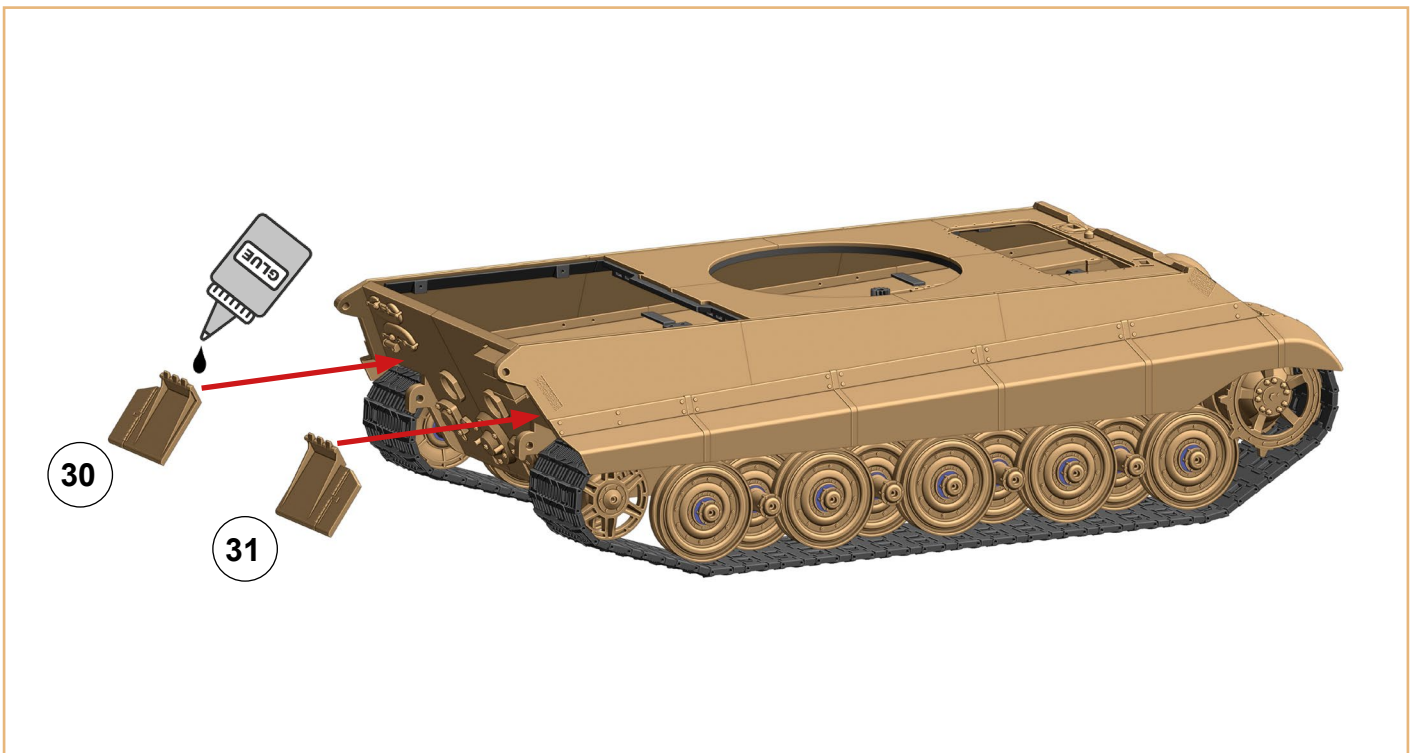




Temporary place of the back cover - it has to be removable:

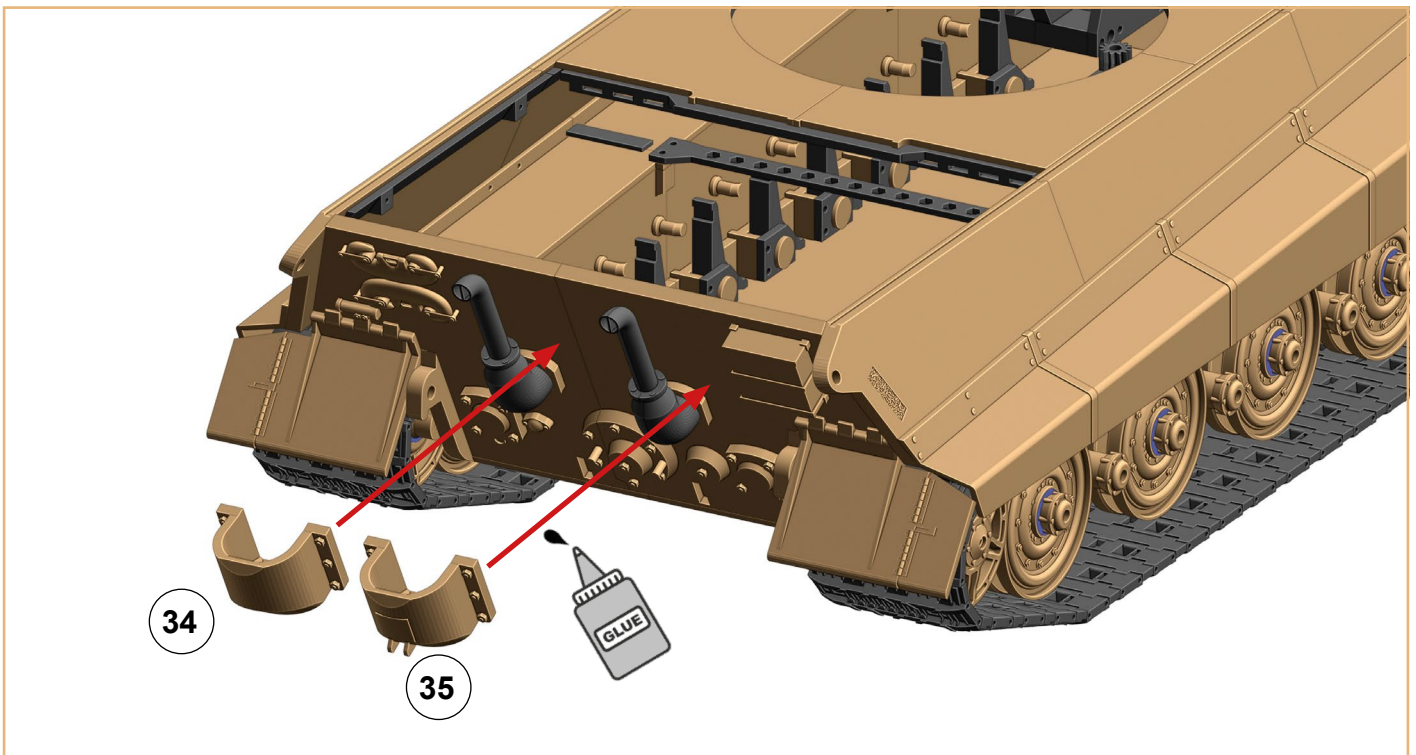
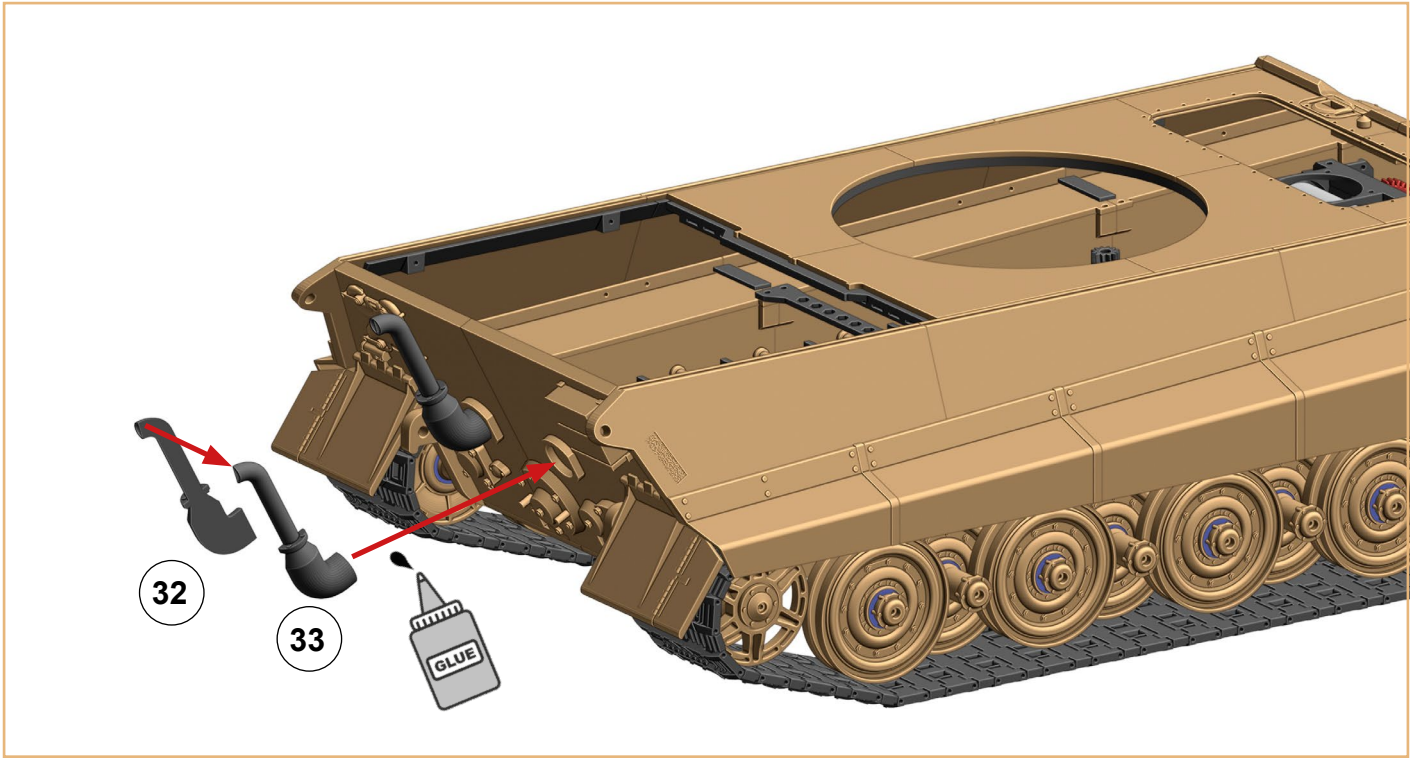


Hull:



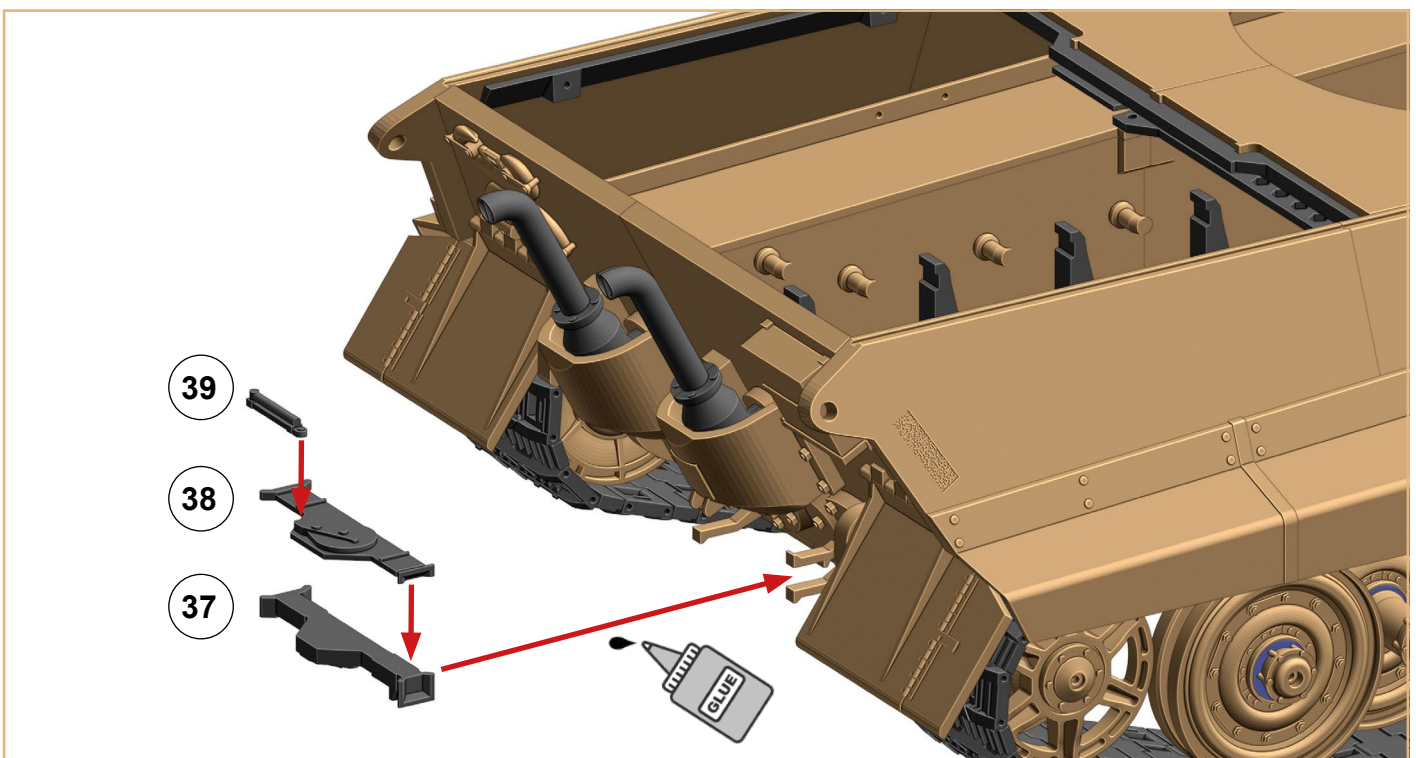
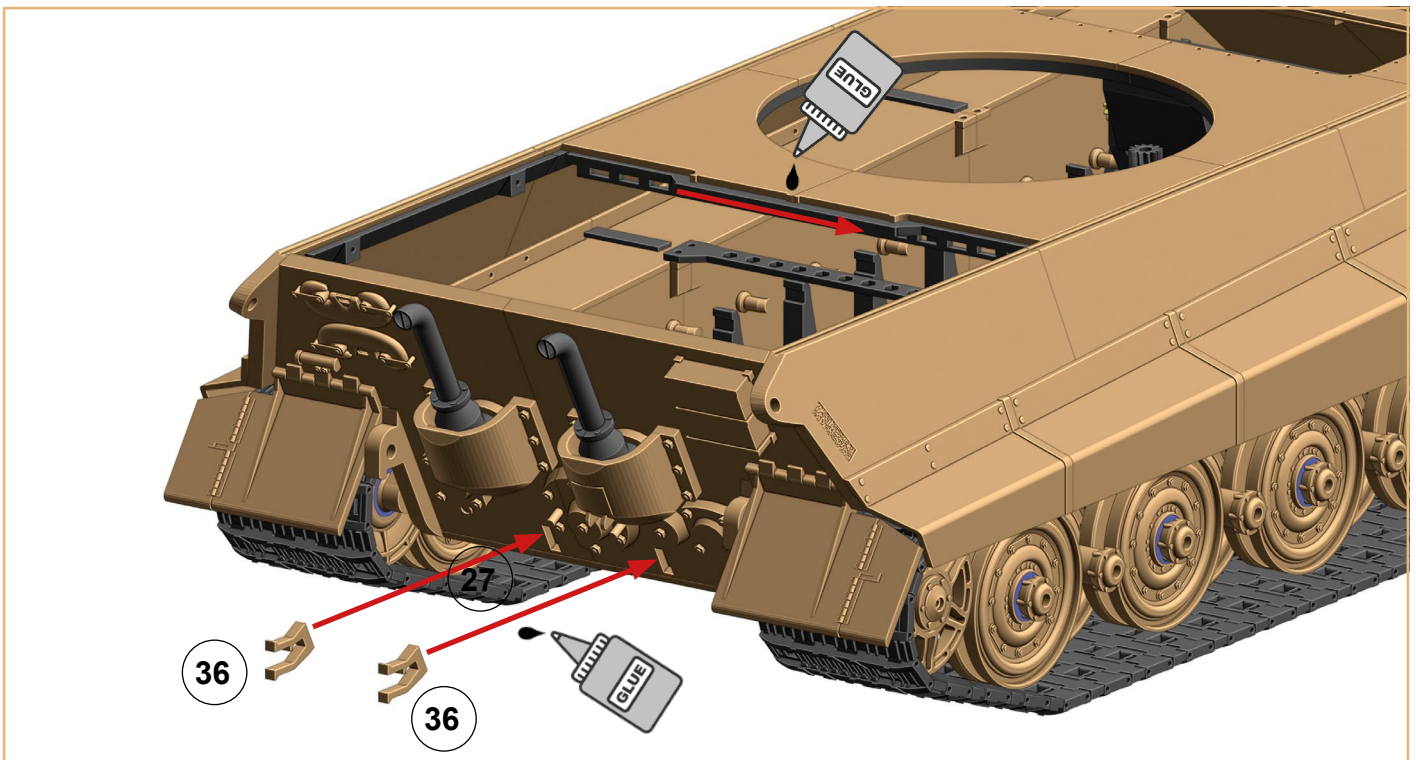
**Hull:**

**2x**

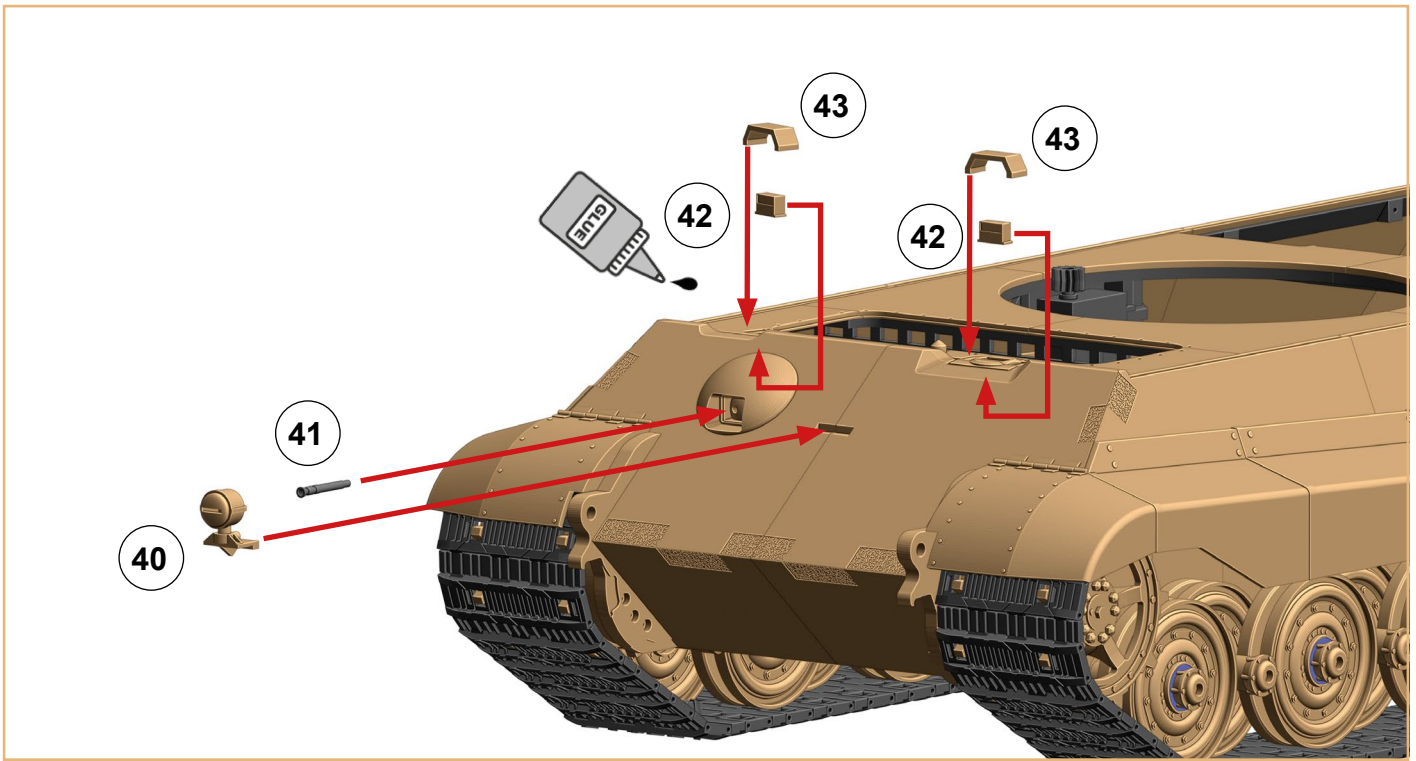




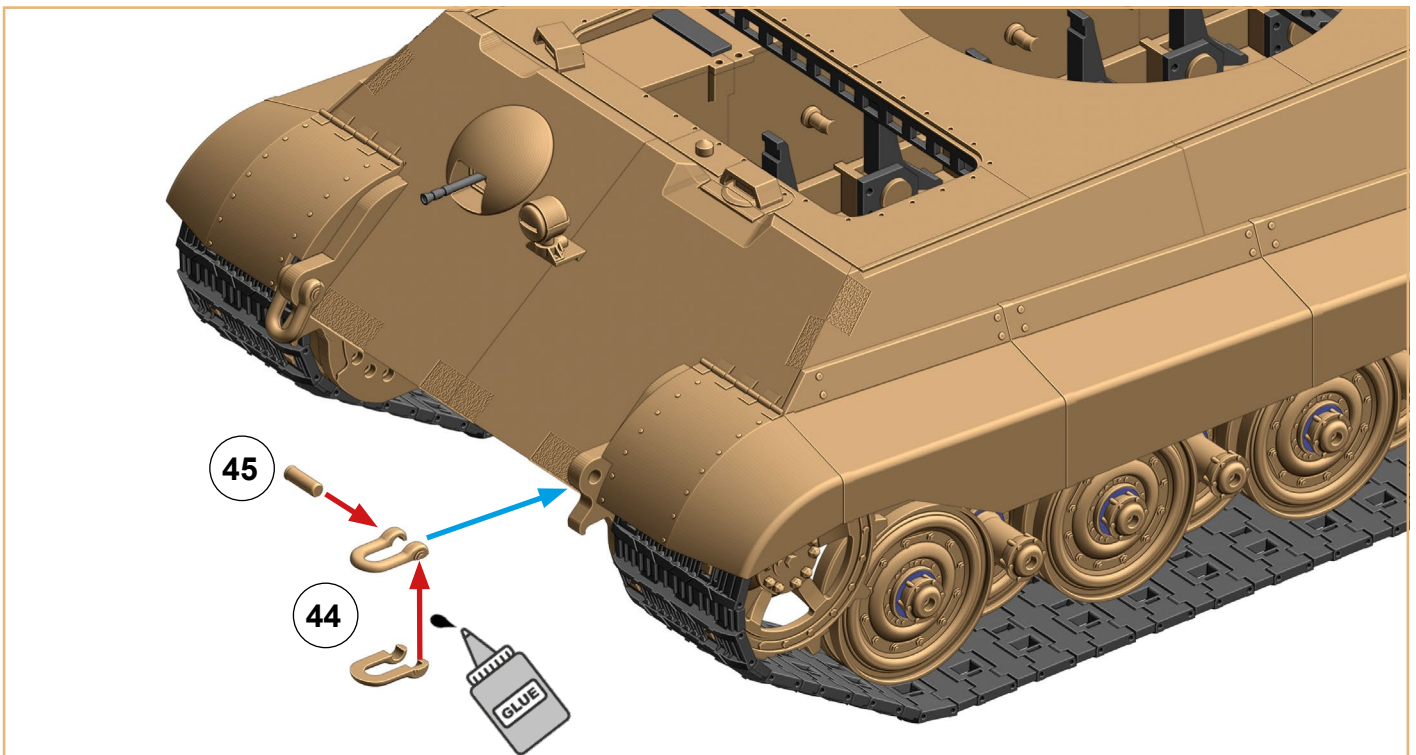
## Hull:



Hull:



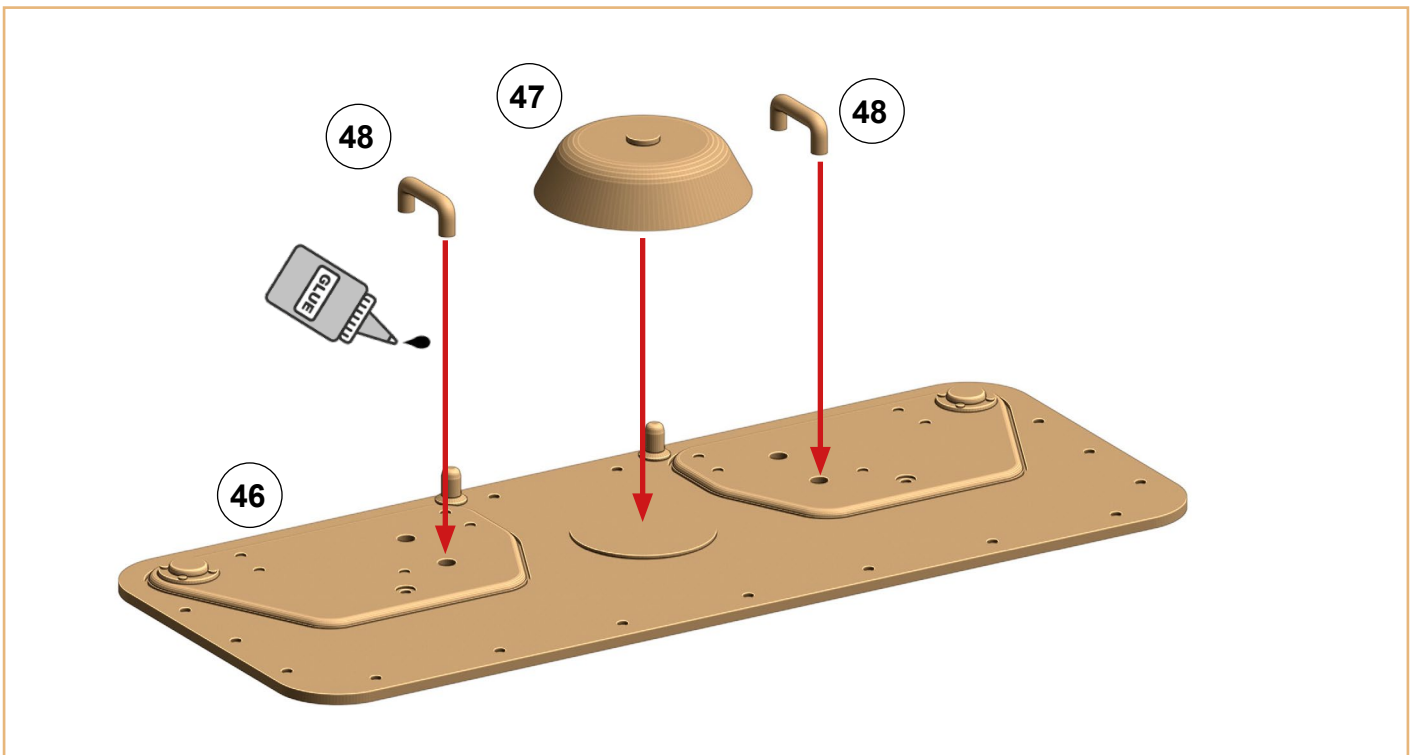
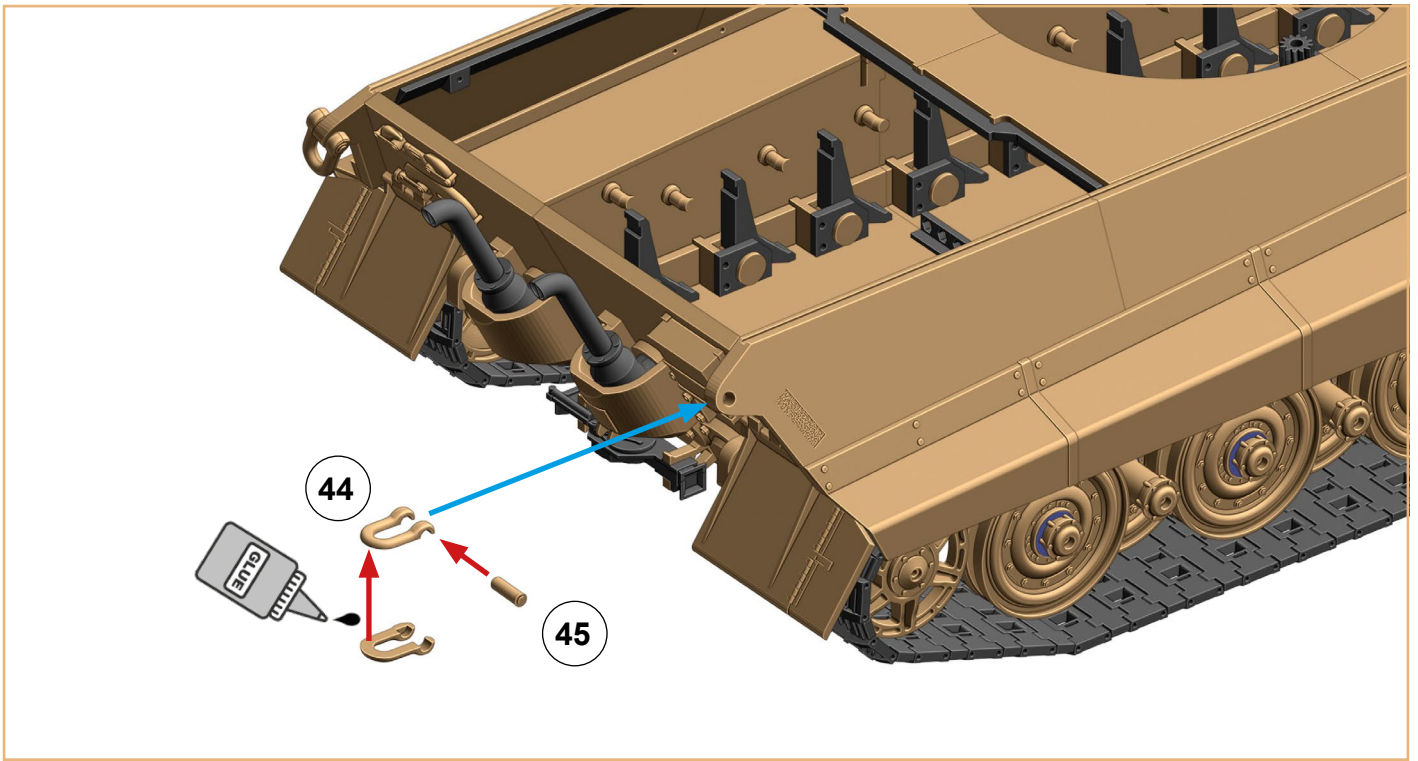
2x



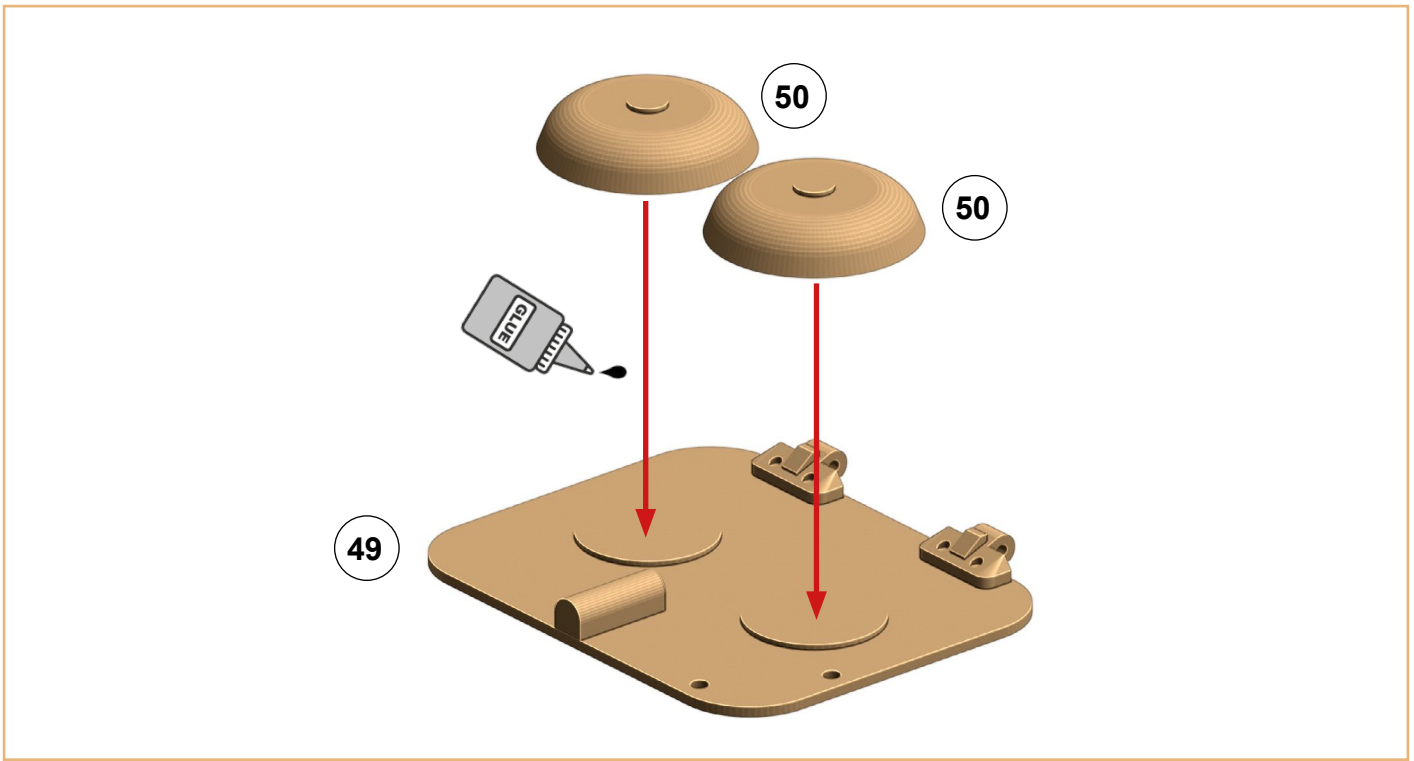


Hull:

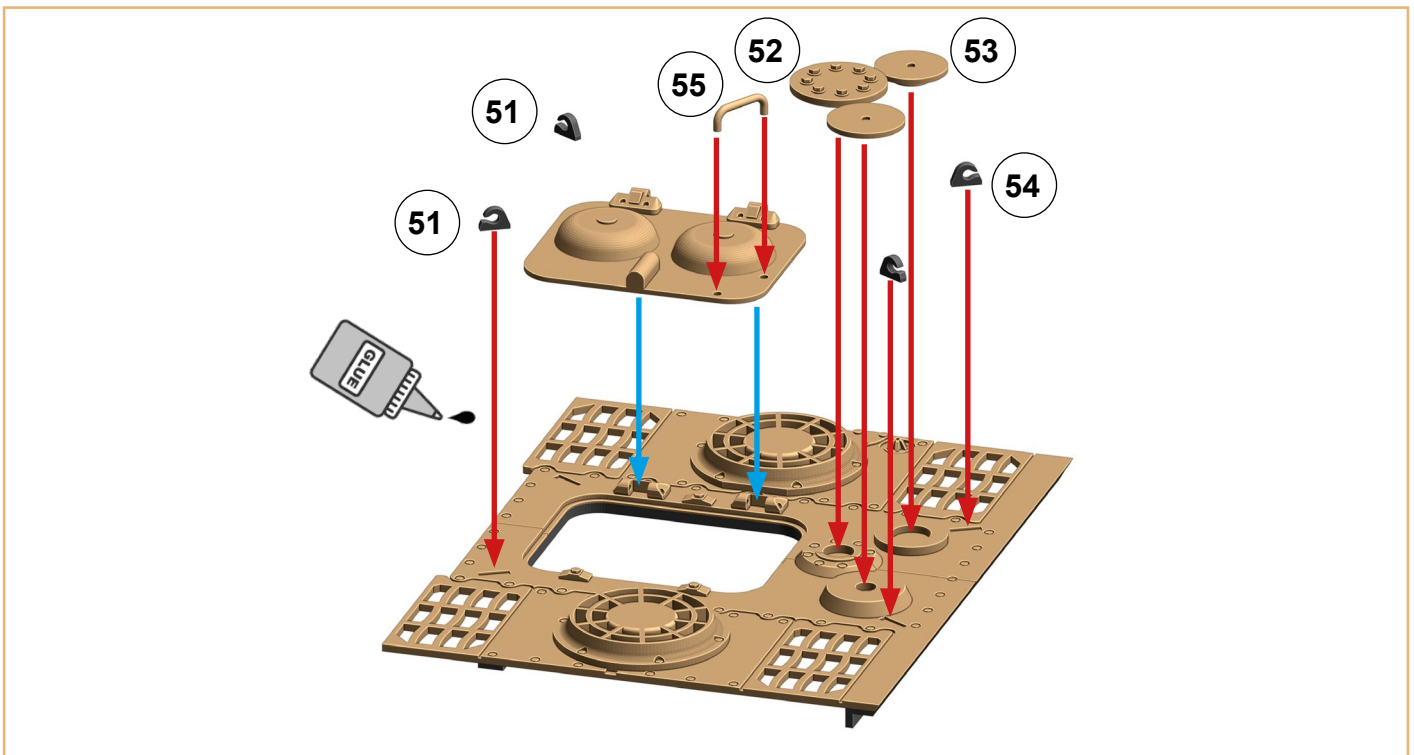
2x



**Hull:**

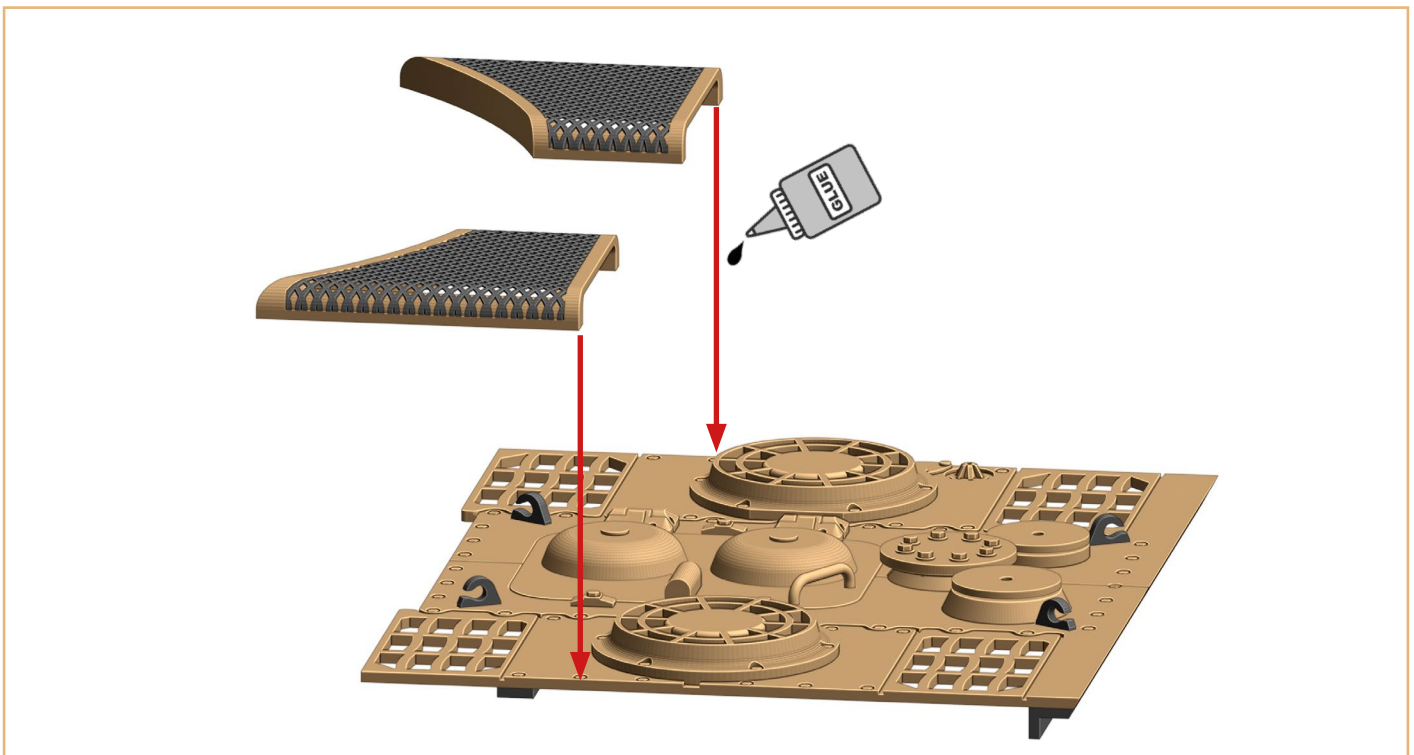
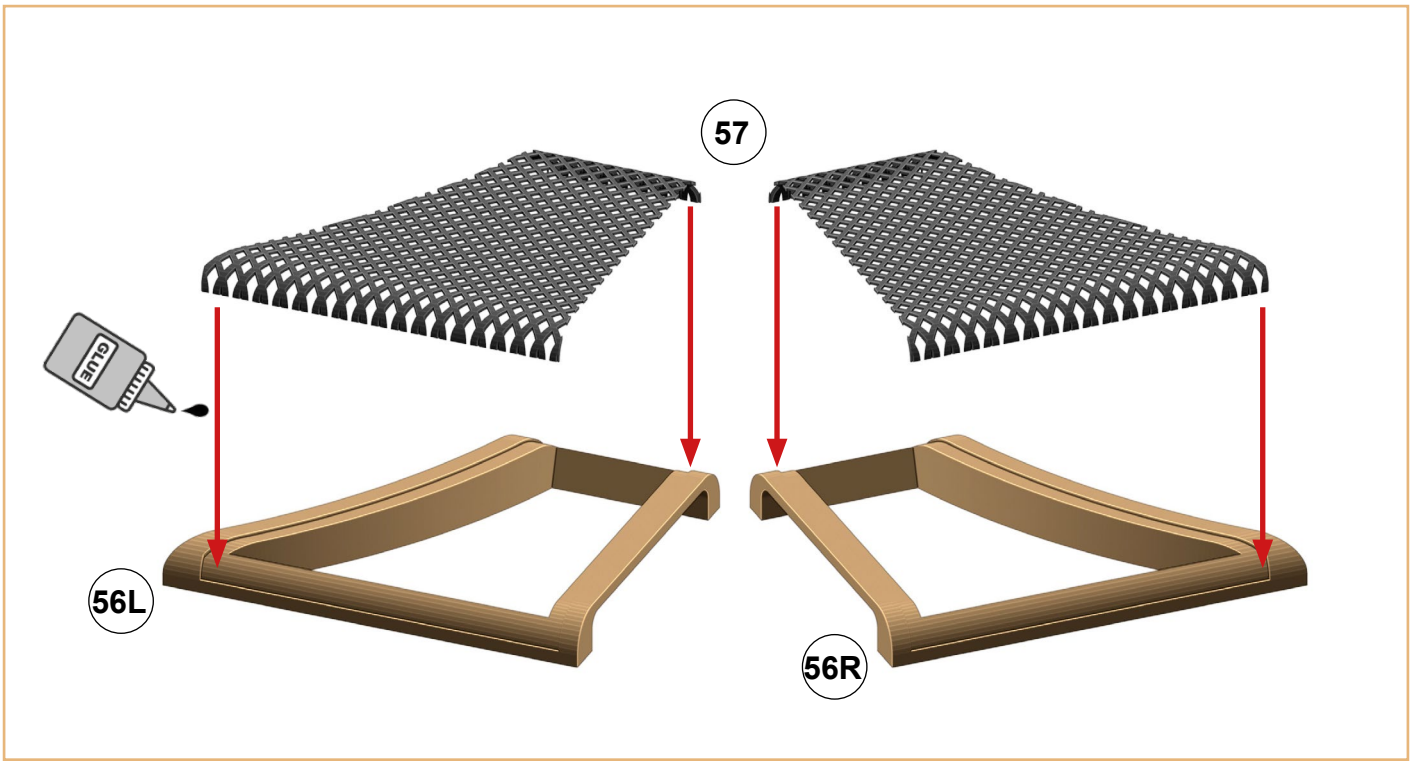


**2x rod 2x15 mm**

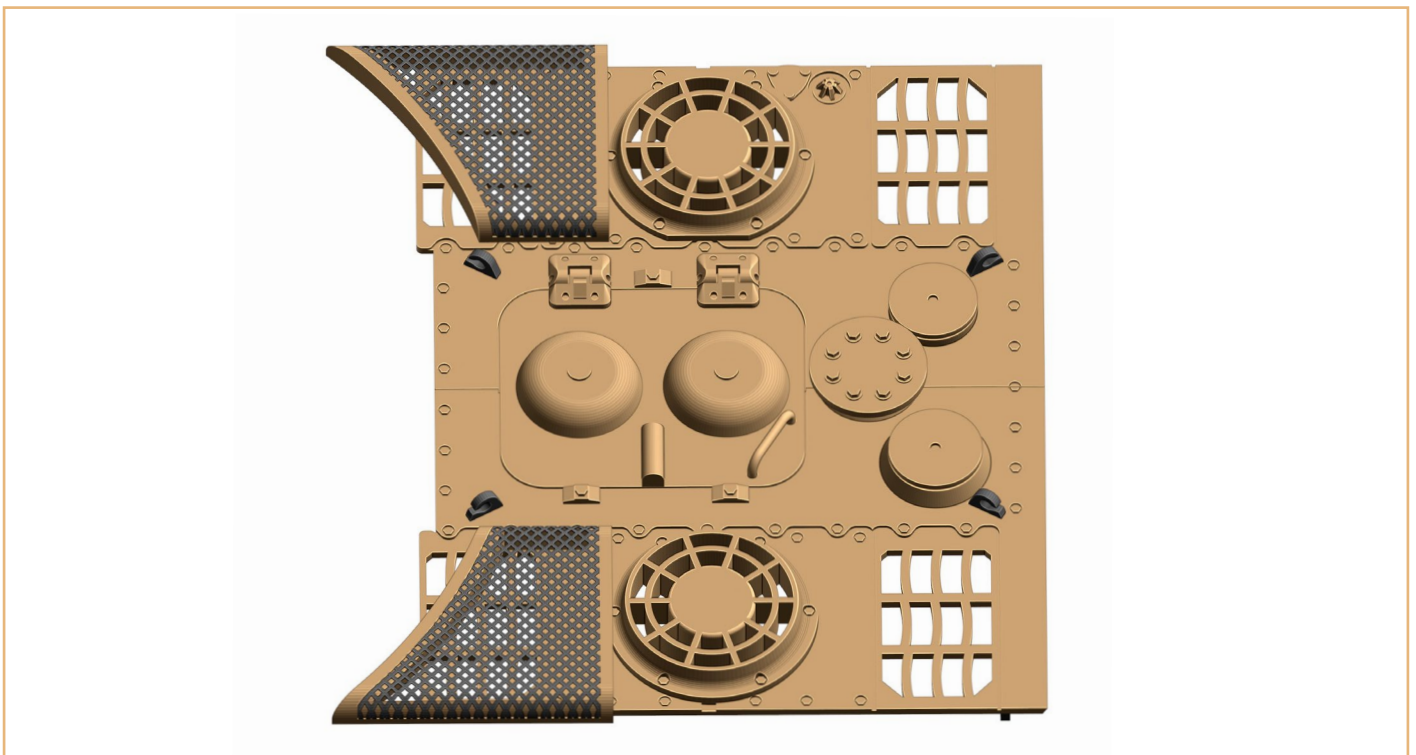
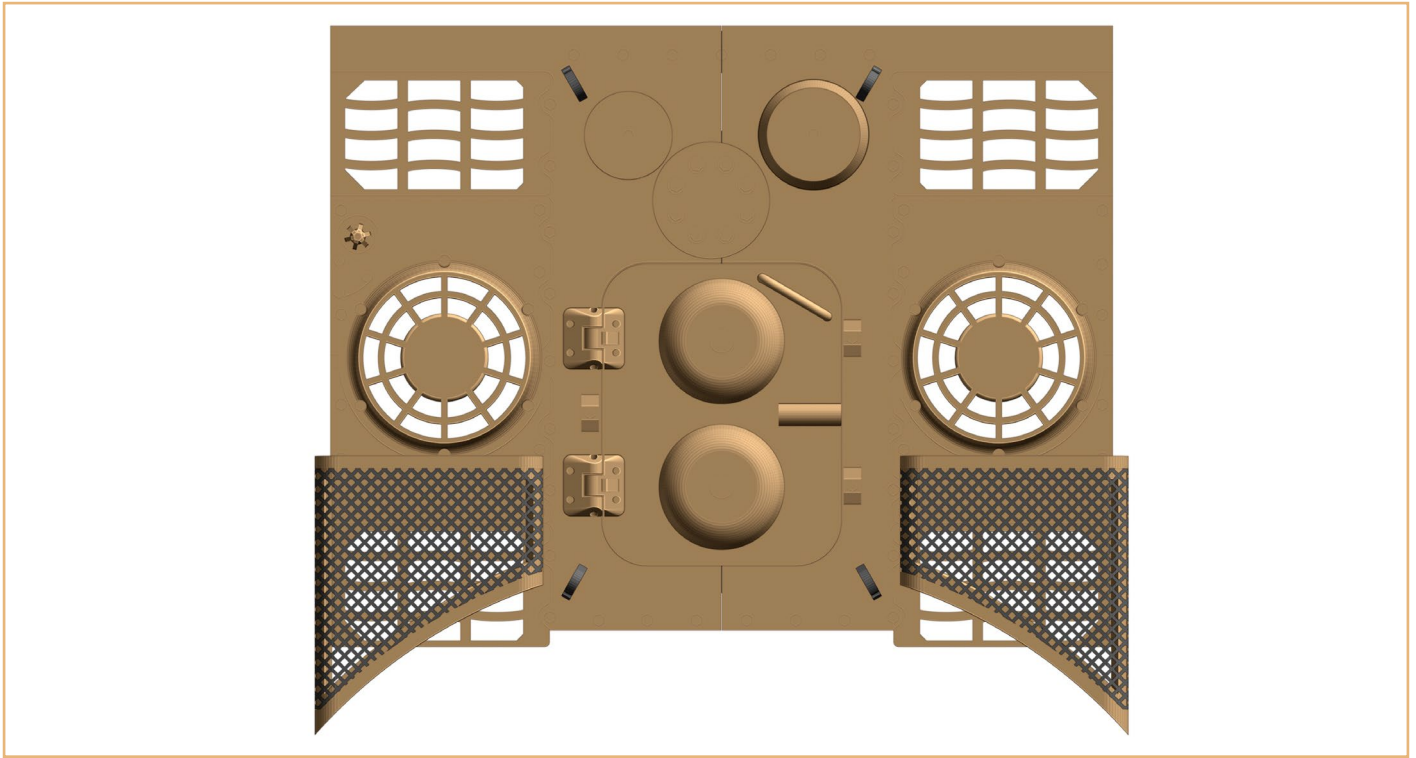


**Hull:**

Print part 57 with 50% infill, 1 perimeter and no top and bottom layers.

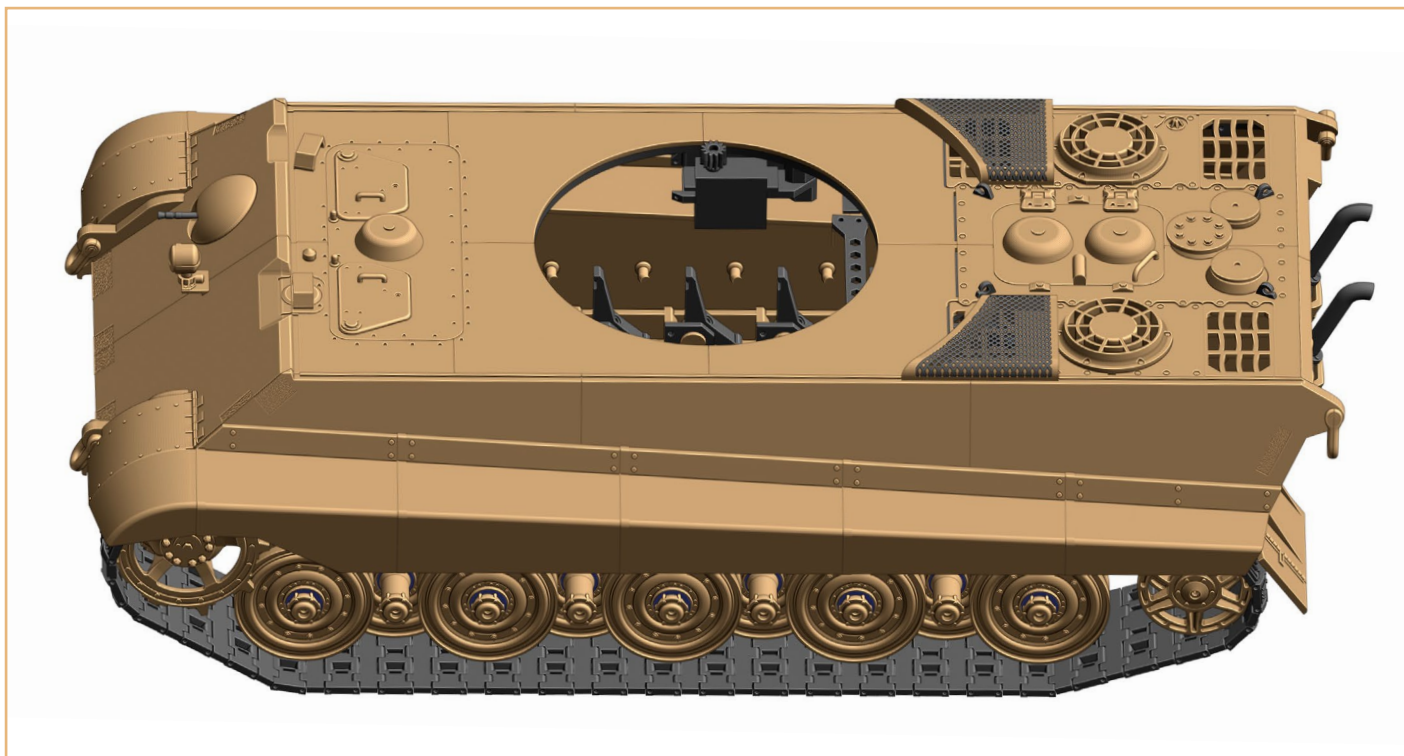


Exact position:

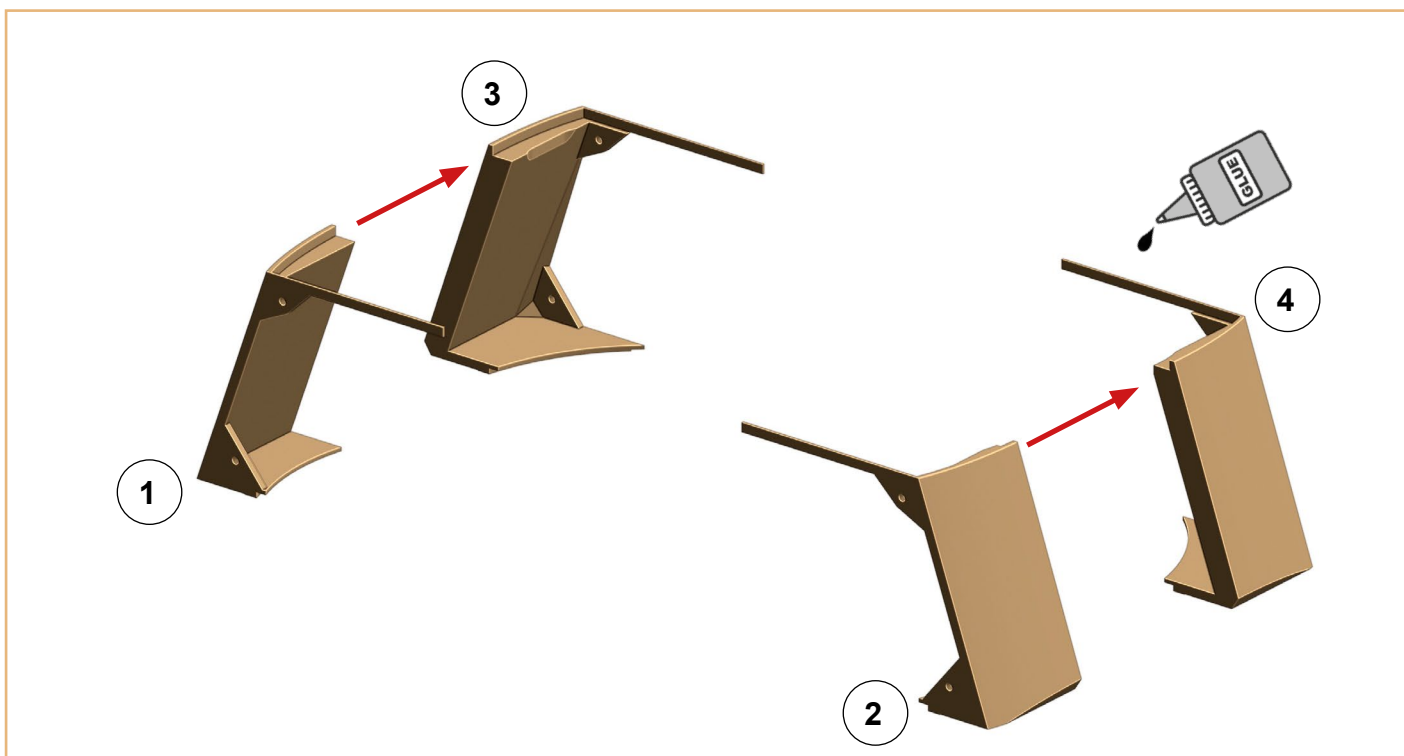




Leave the decks removable:



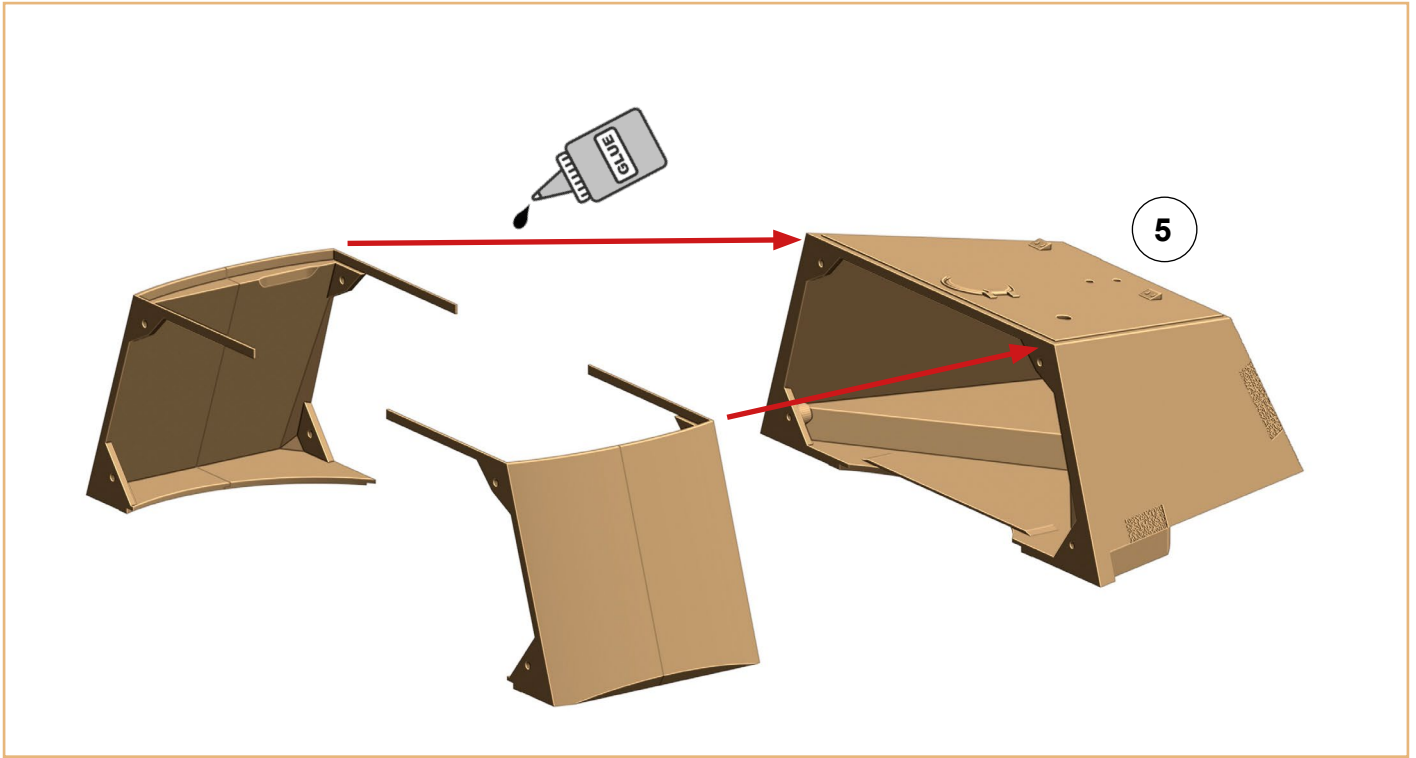
Turret:



**Turret:**

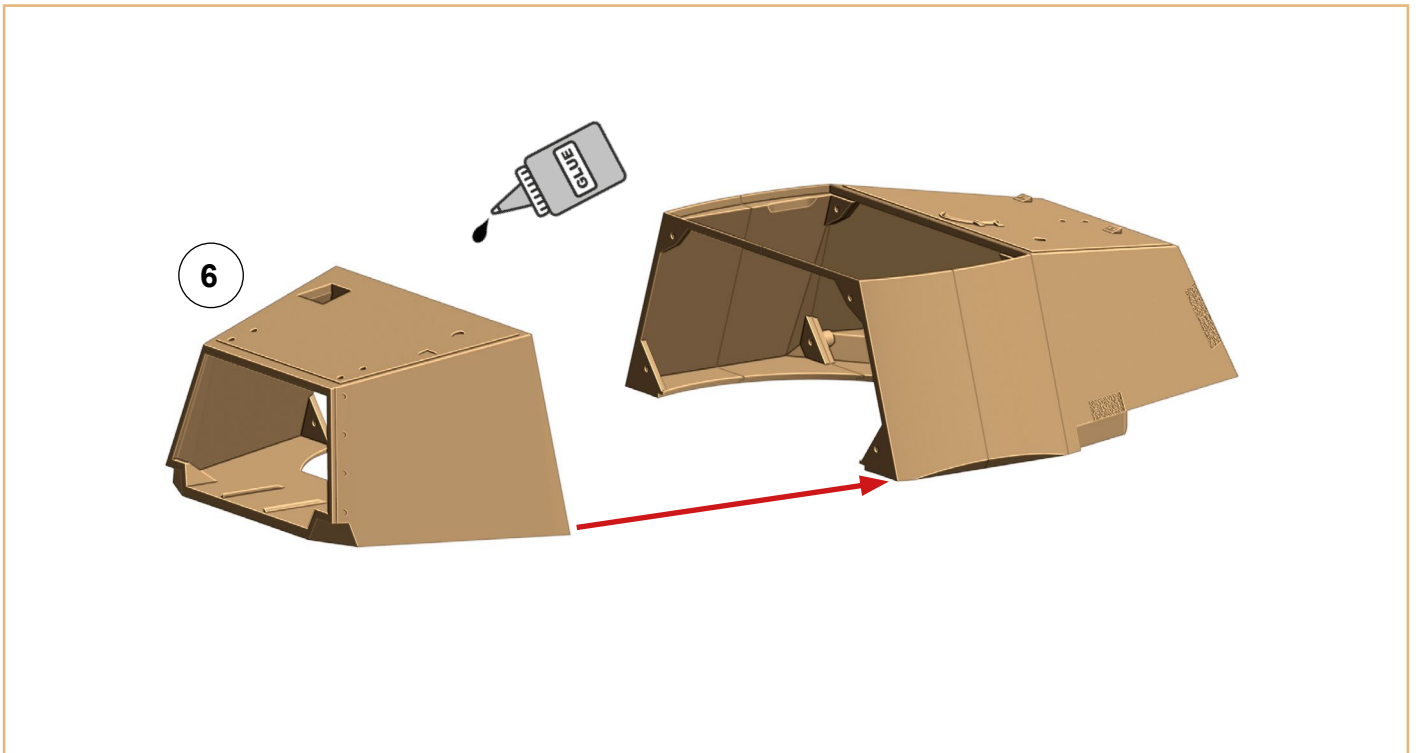
**4x screw M3 10 mm**

**2x nut M3**

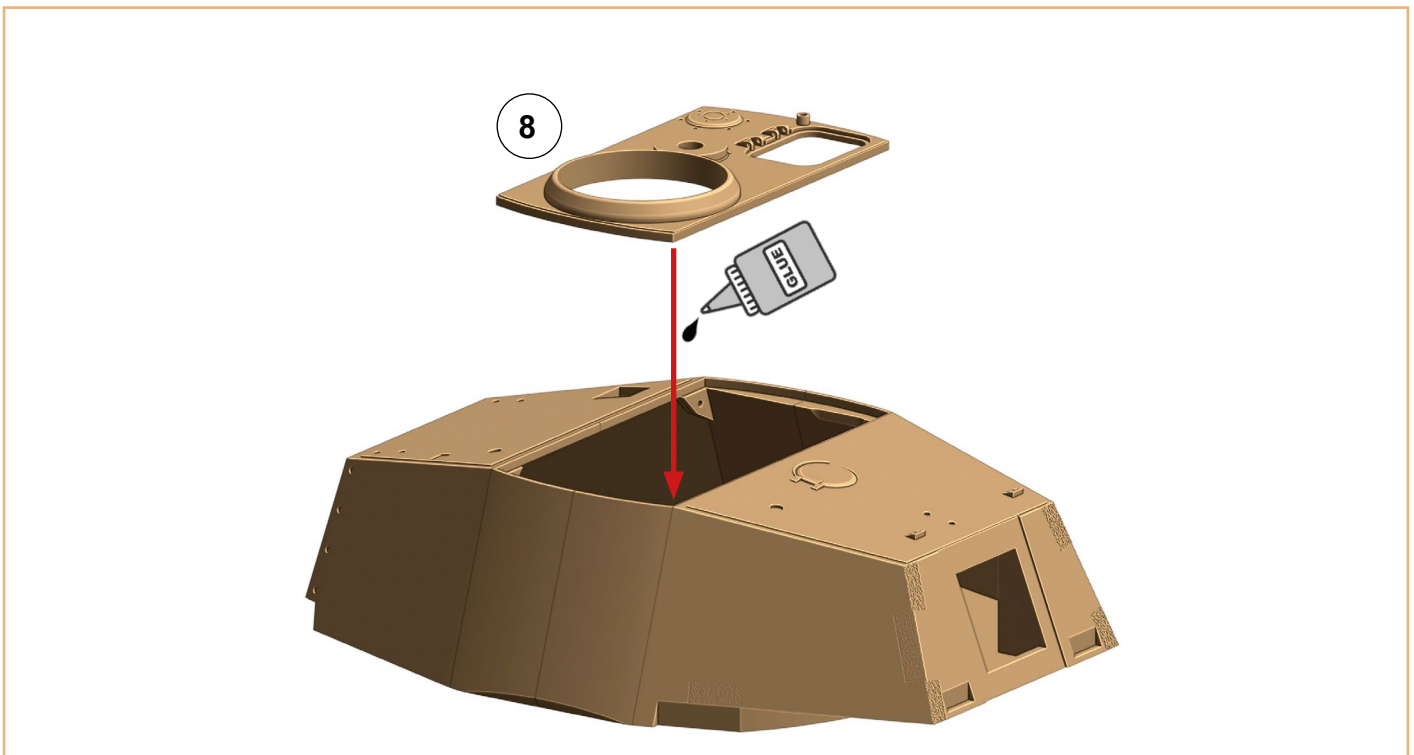
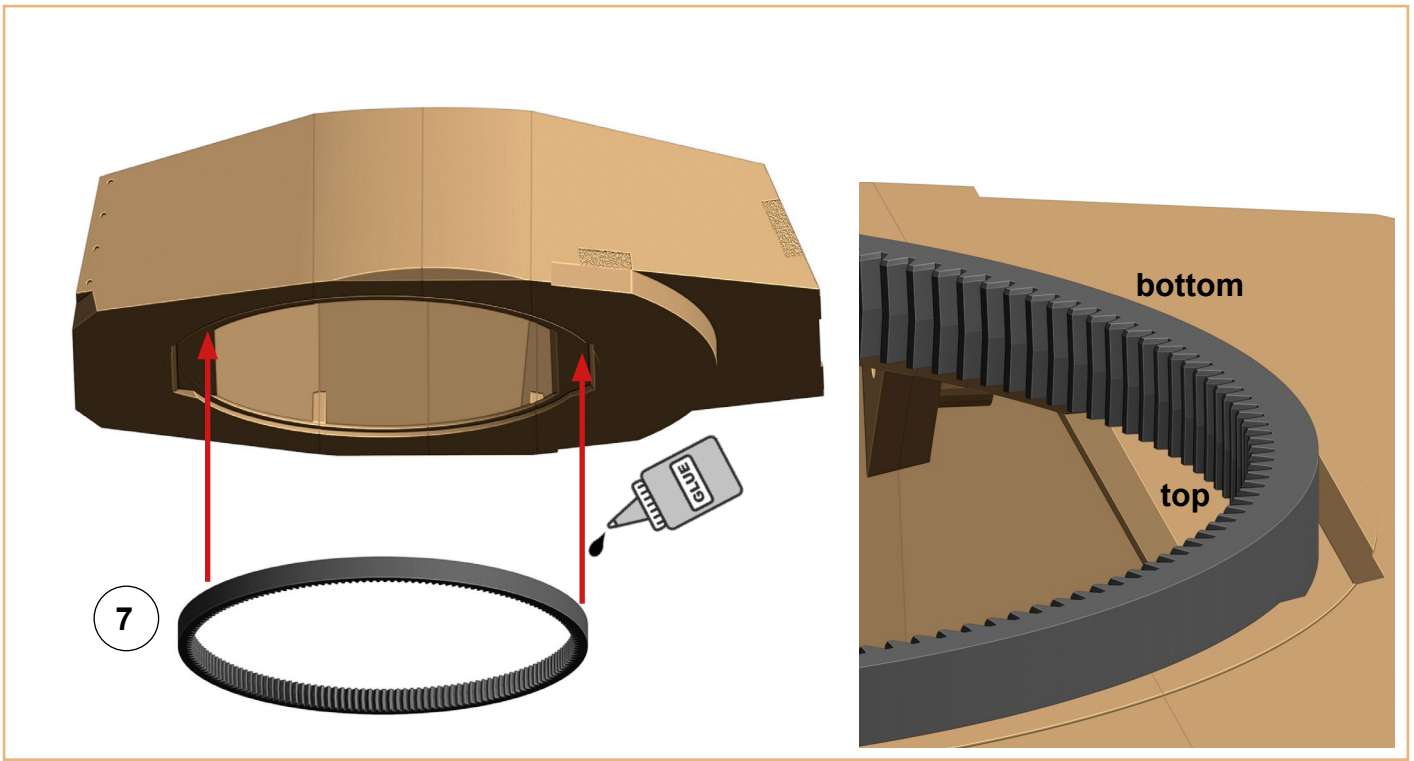


**4x screw M3 10 mm**

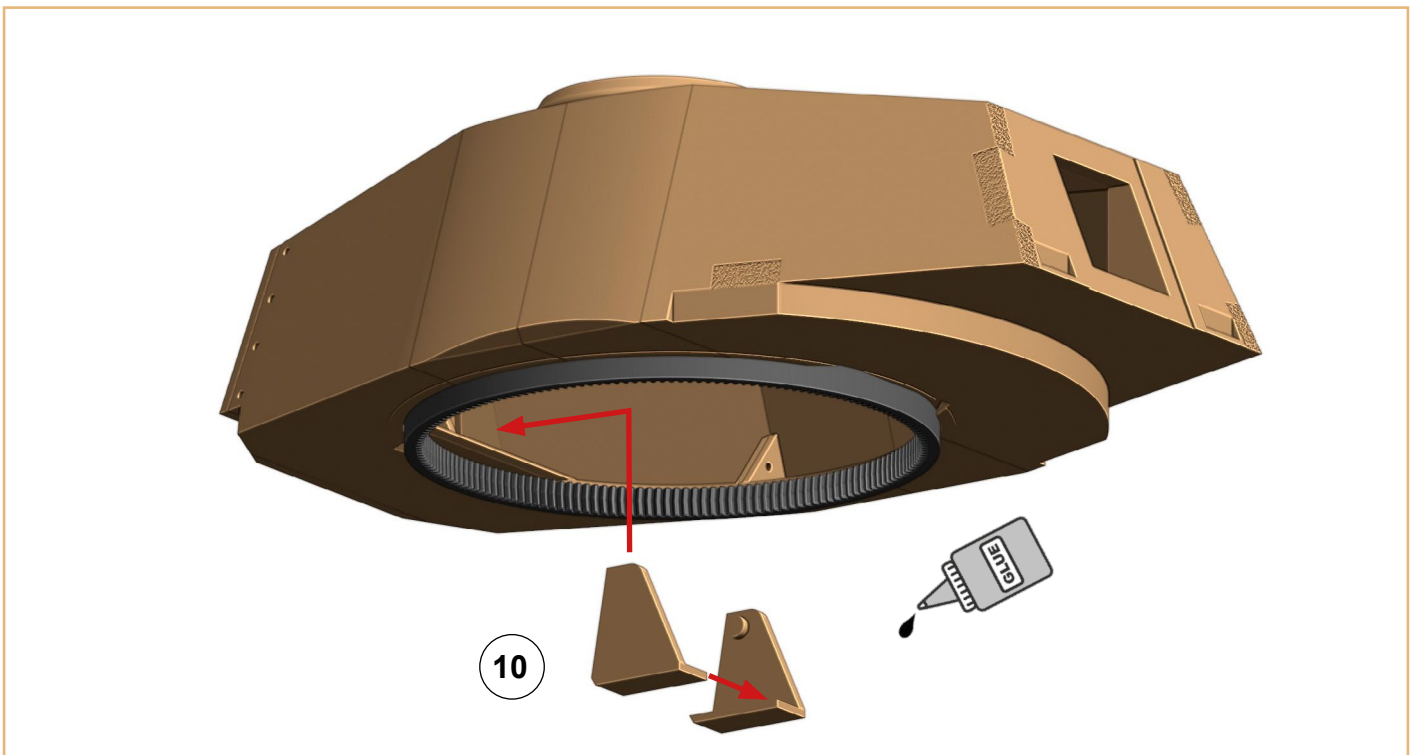
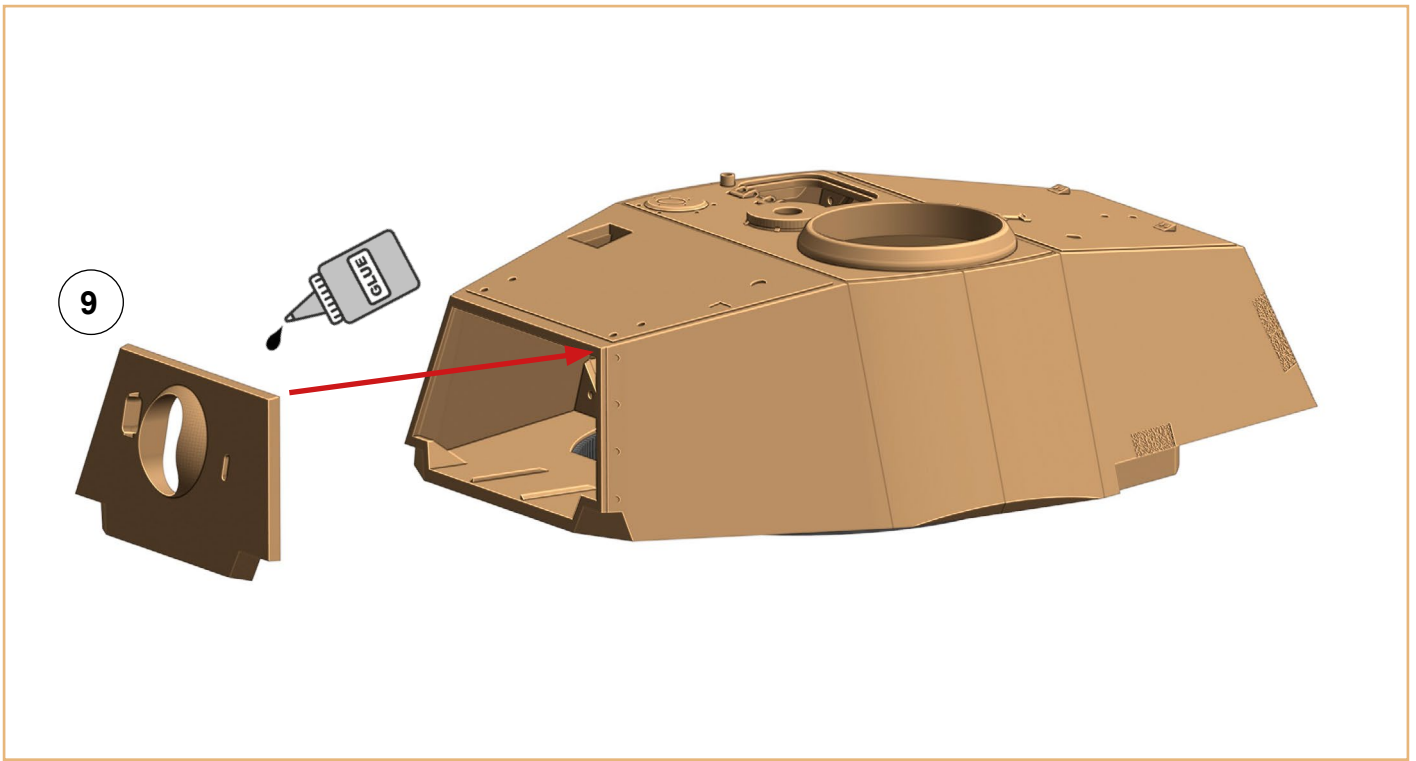
**4x nut M3**



**Turret:**



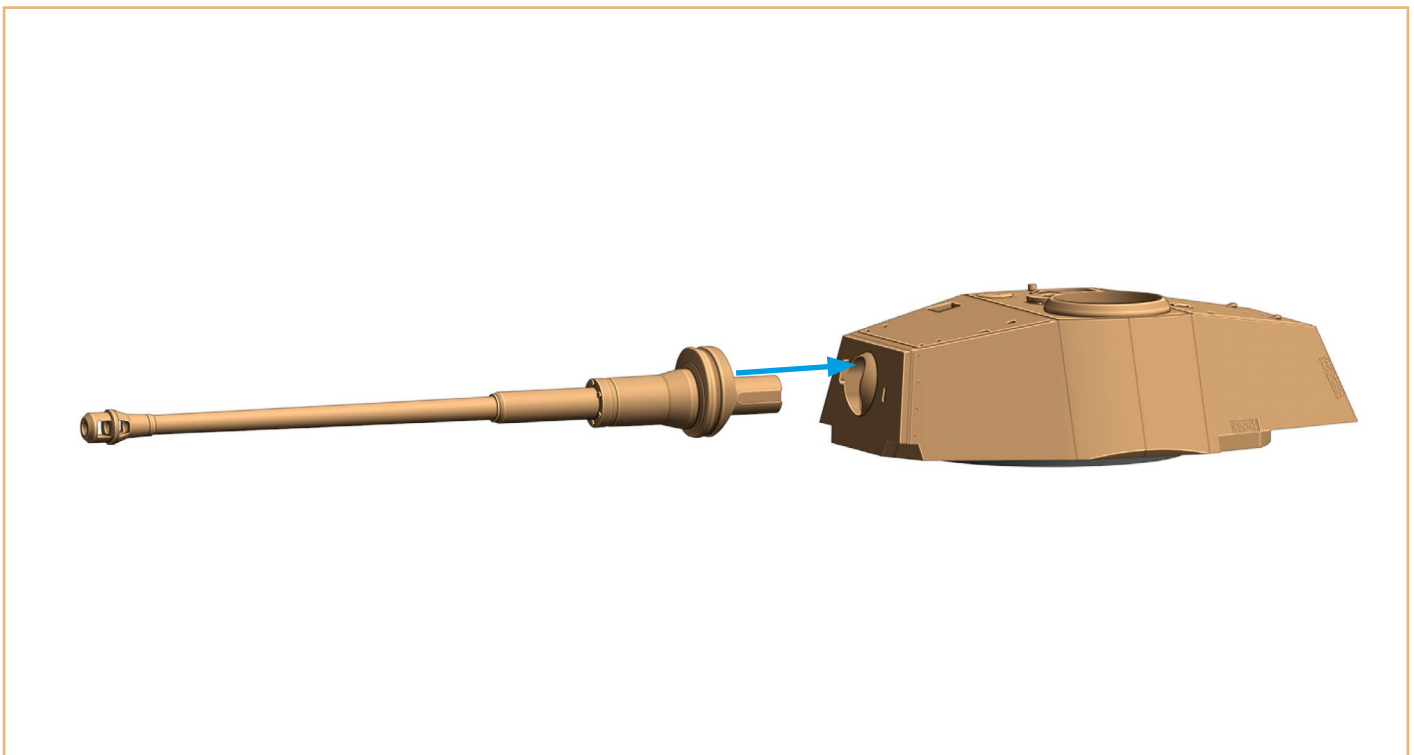
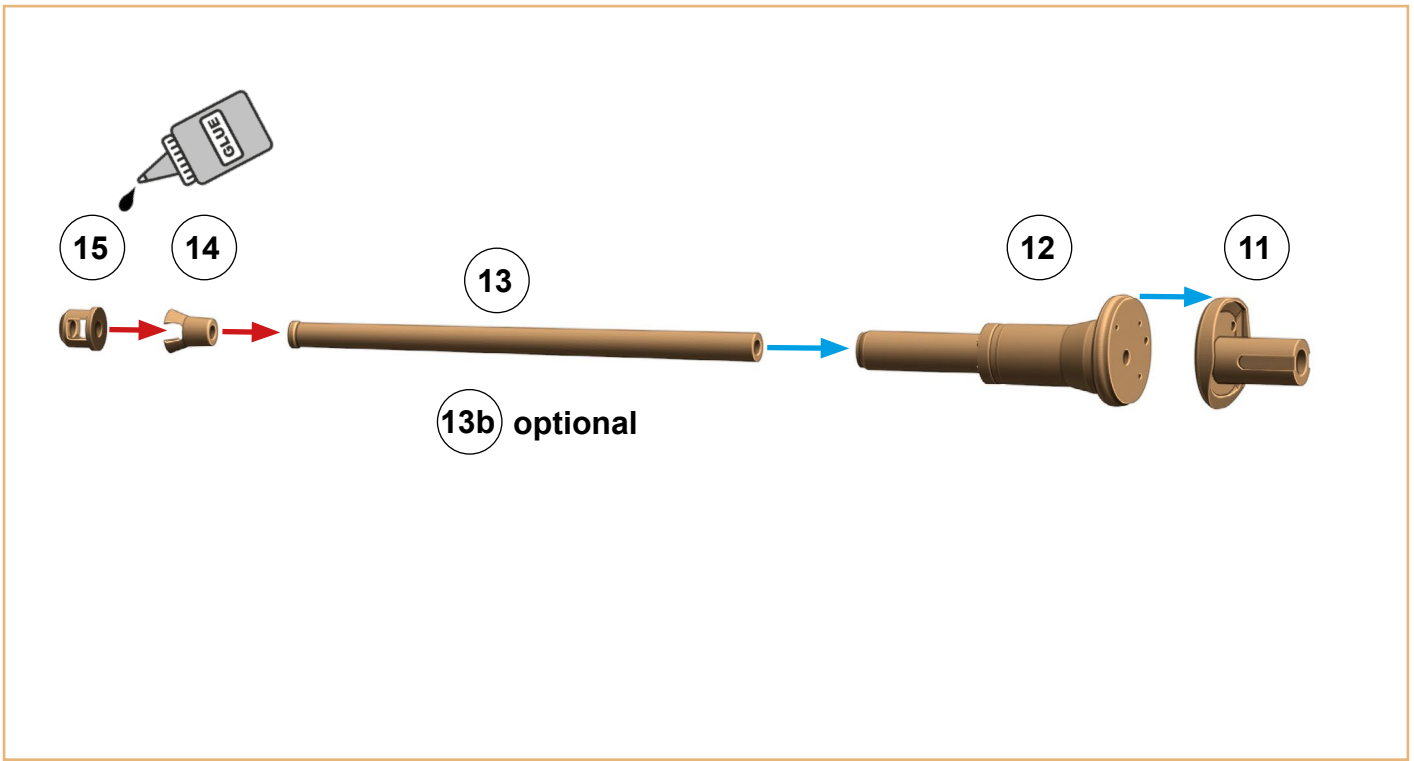
**Turret:**



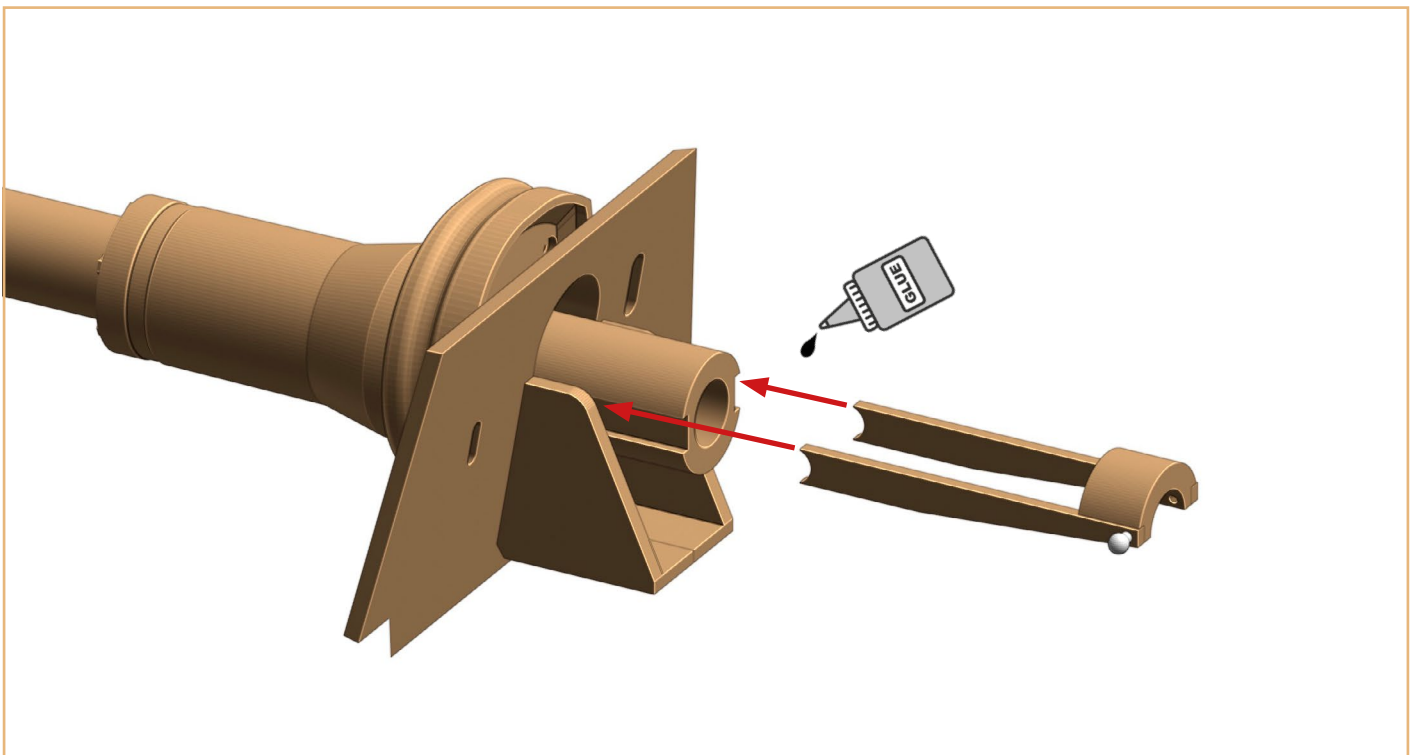
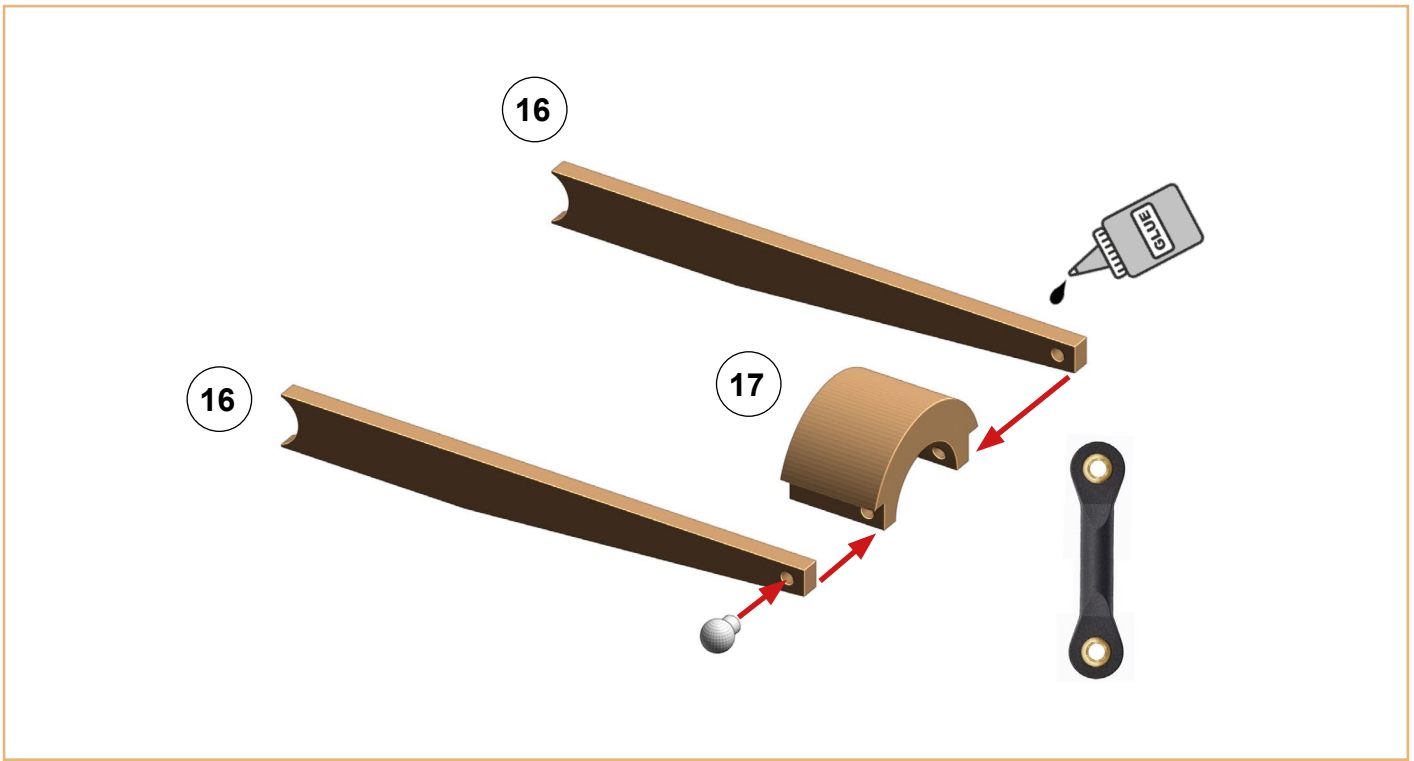


**Turret:**

**3x screw M3 8 mm**

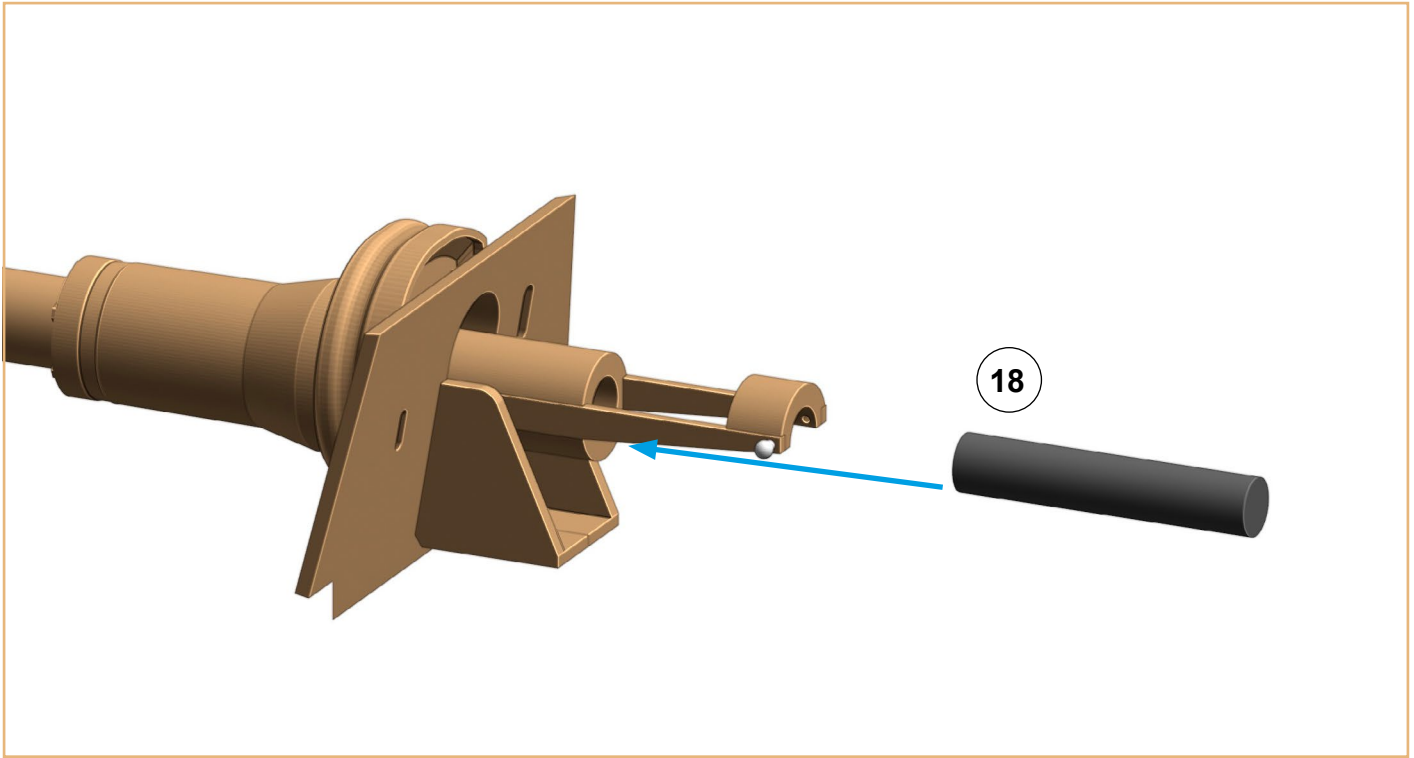


**Turret:  
end ball + endball joint 20 mm**

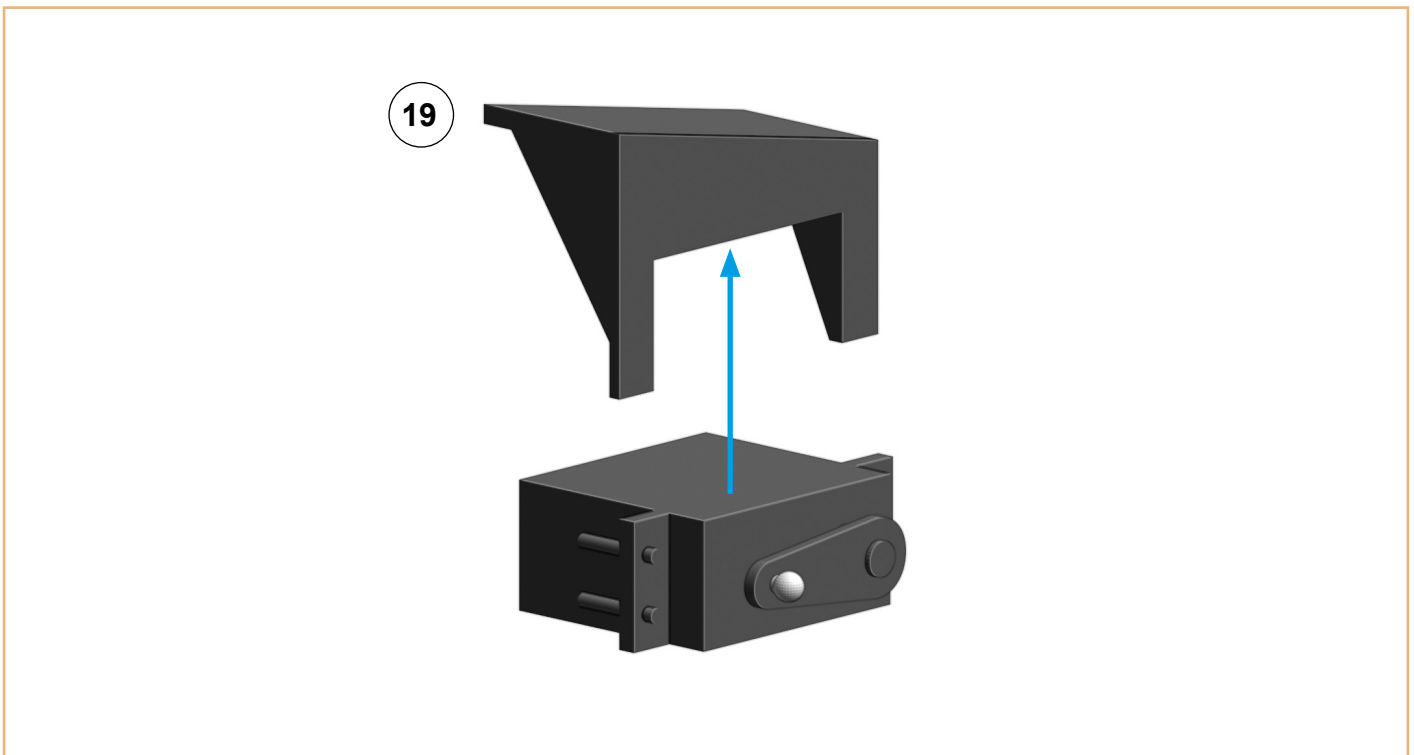


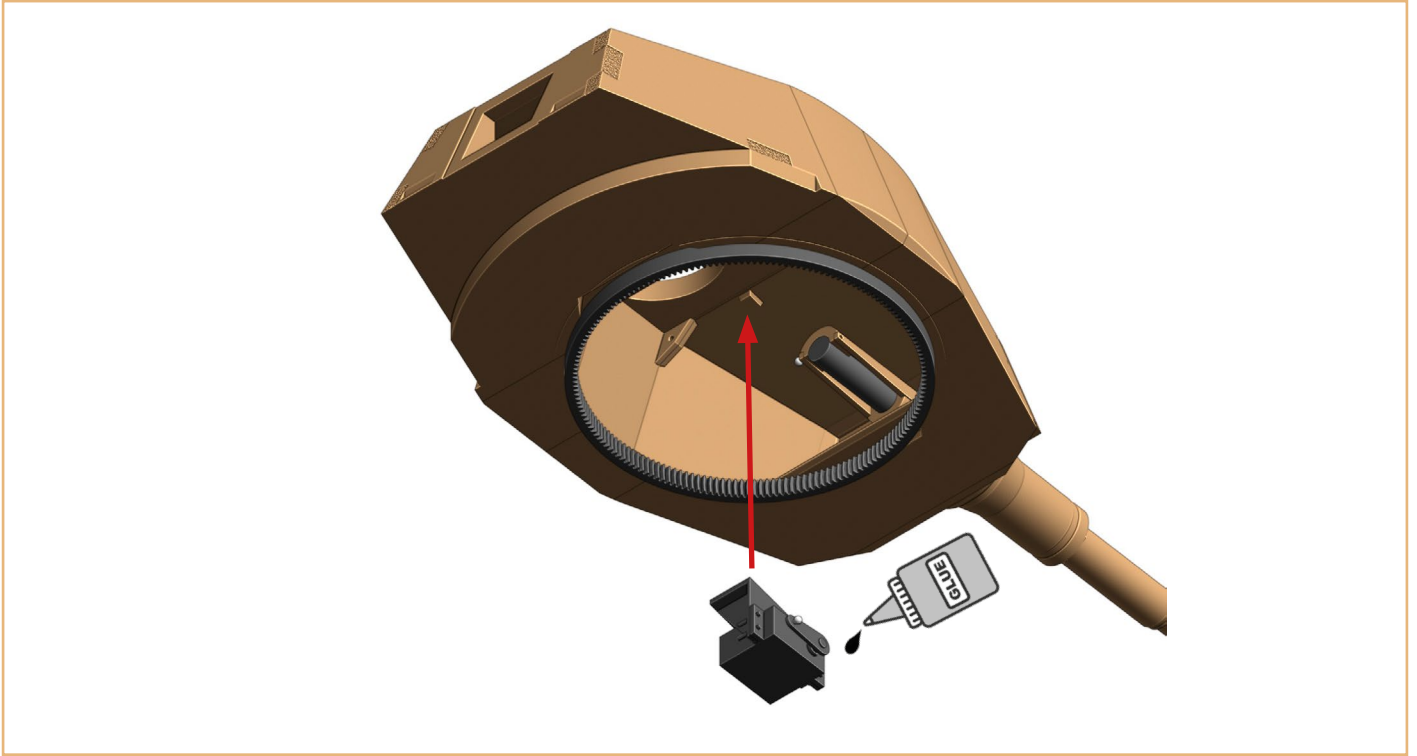
**Turret:**

**If you do not use airsoft mechanics, place part 18 instead.**

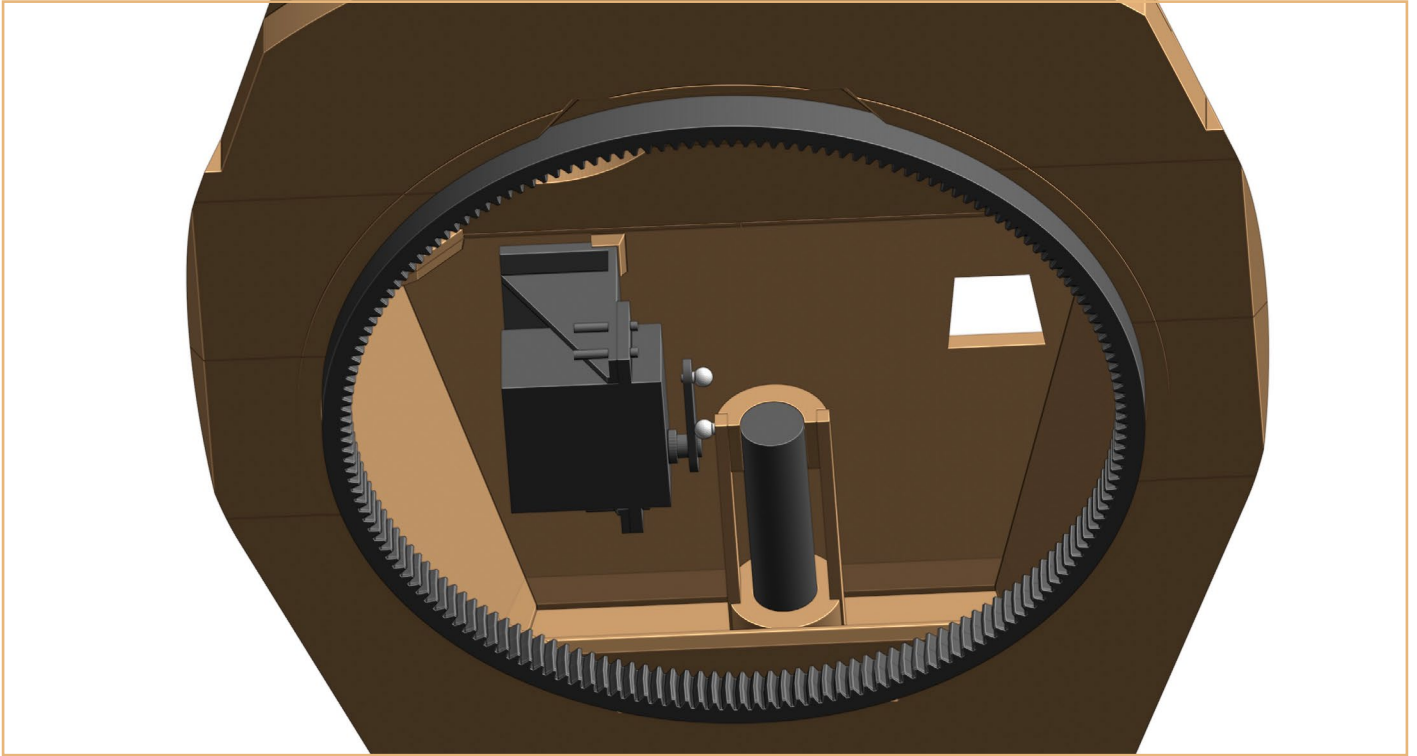


**4x screw M2,5 10 mm**  
**end ball**



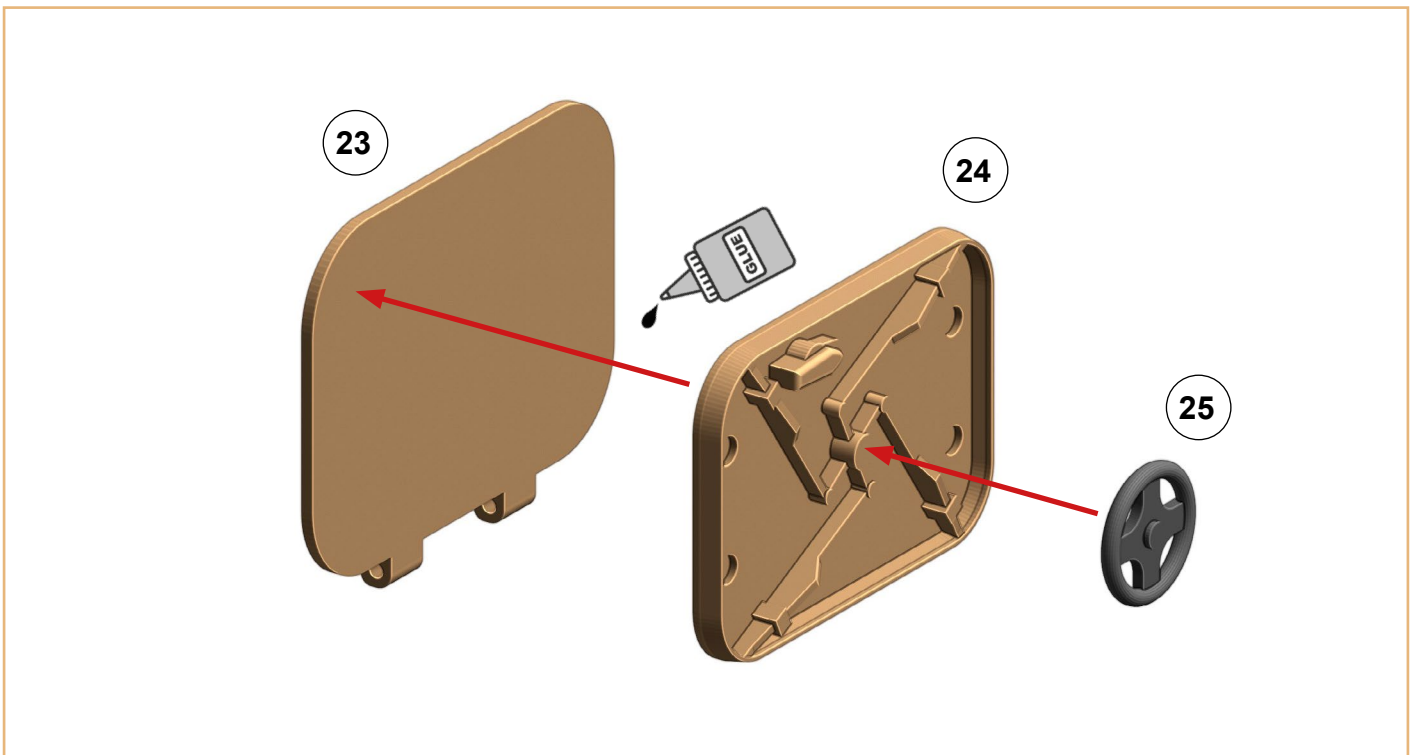
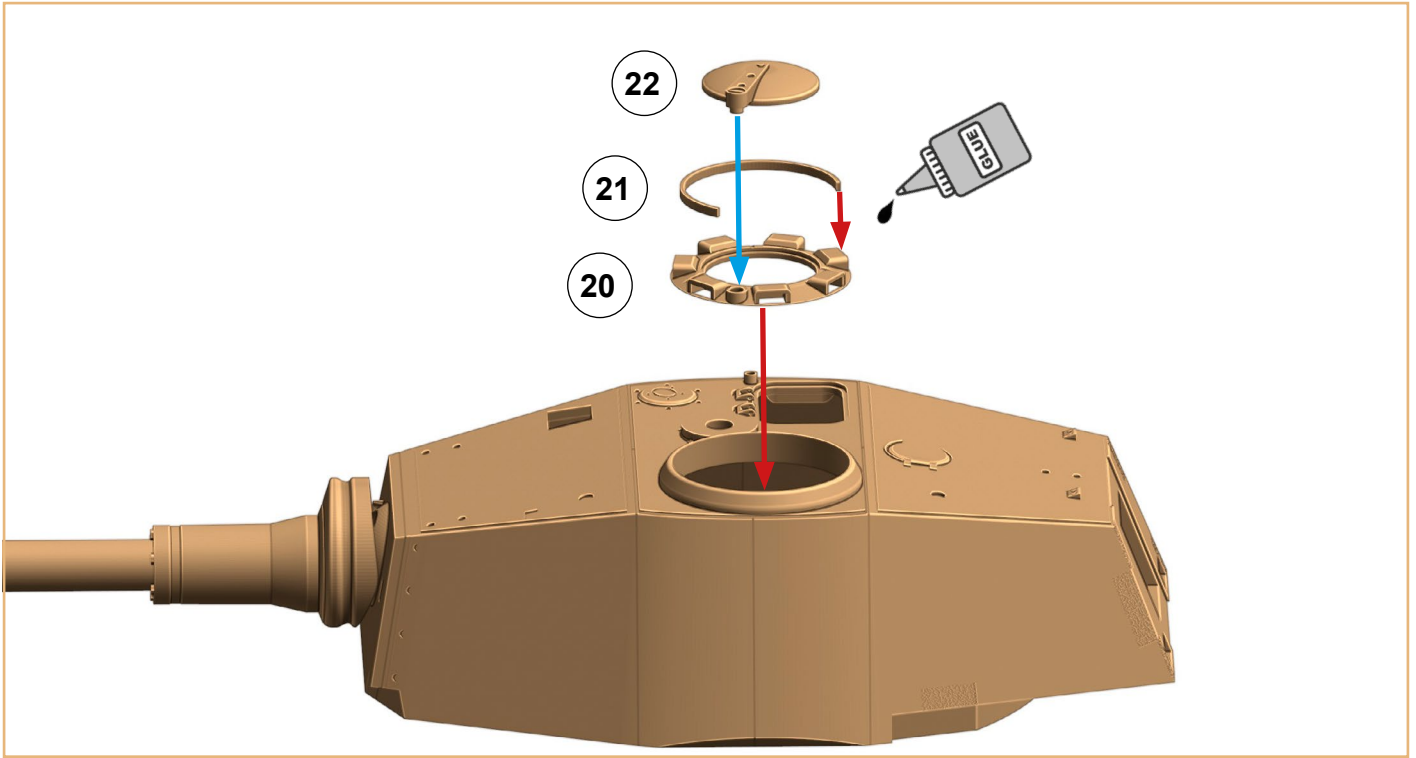


**Exact position:**



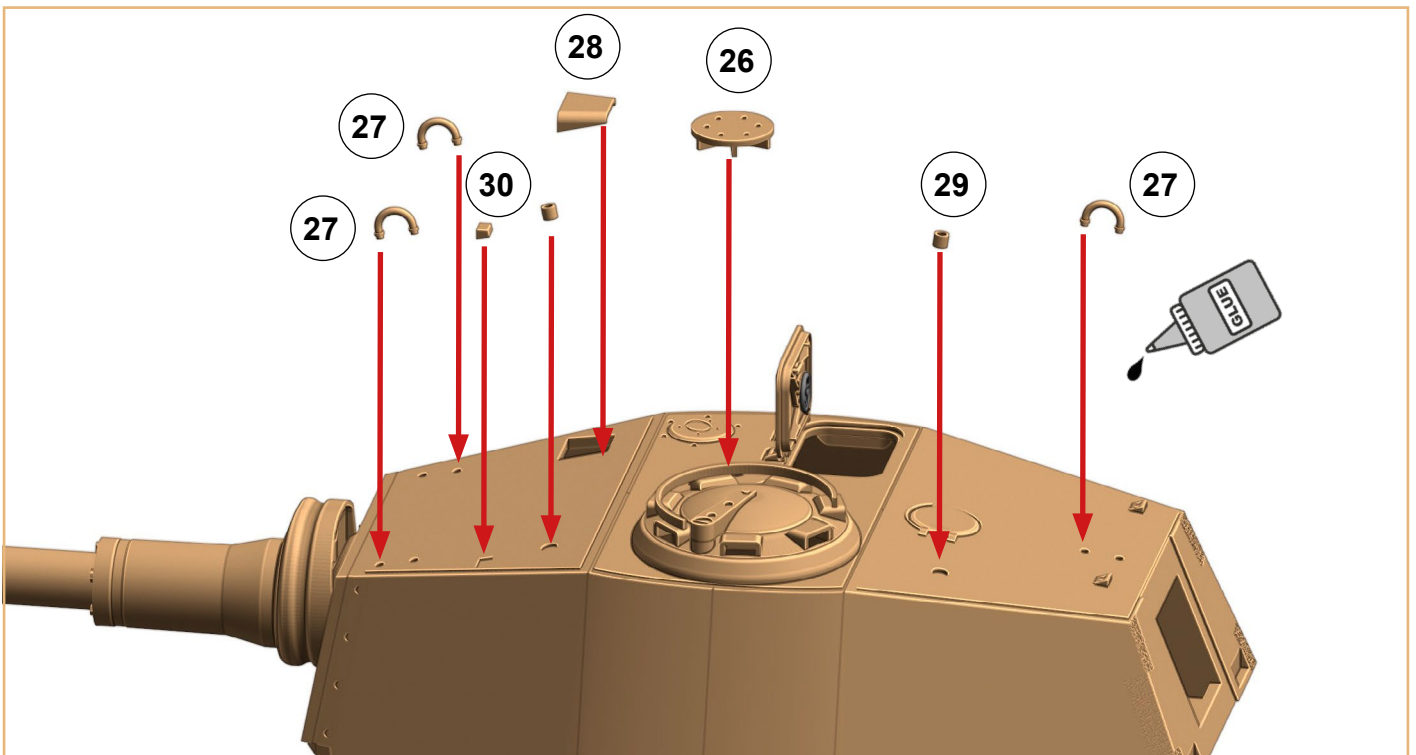
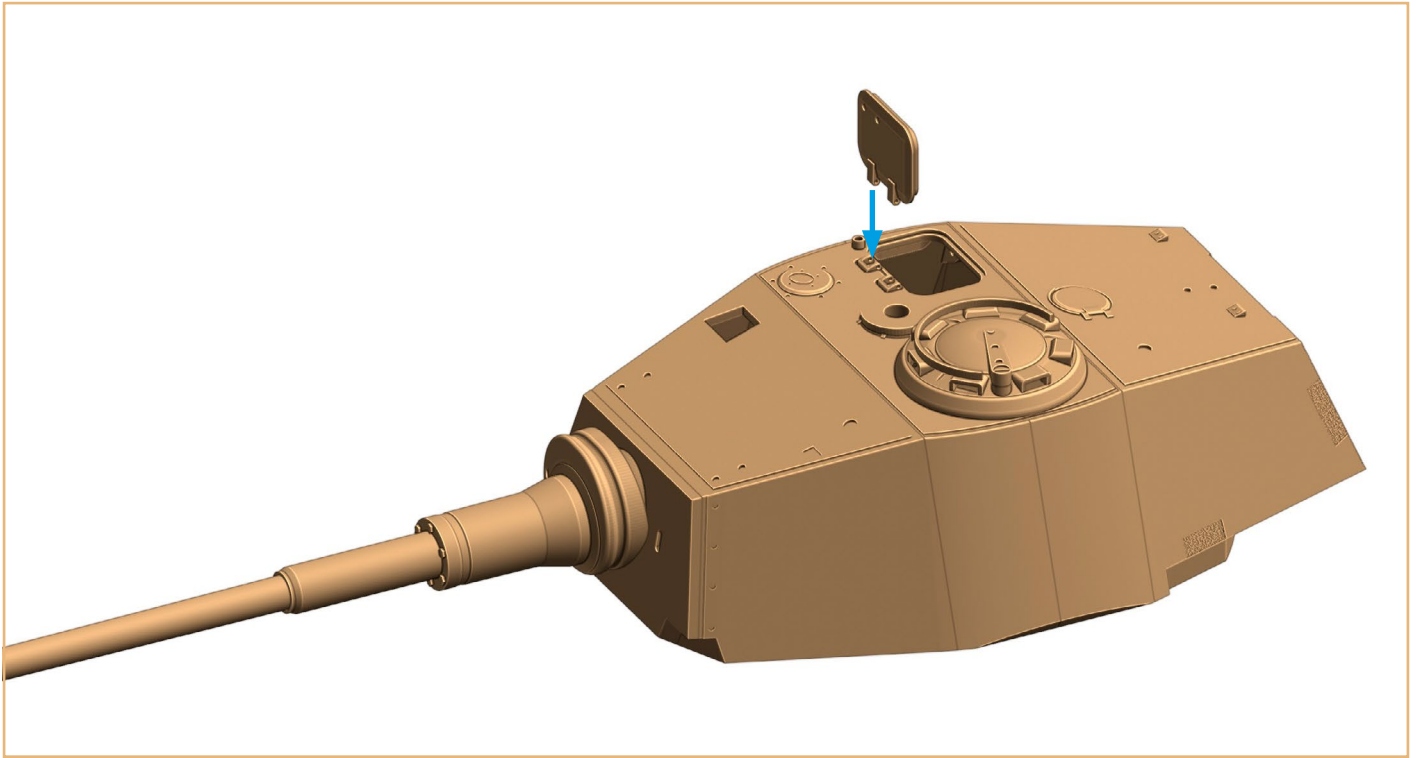


**Turret:**

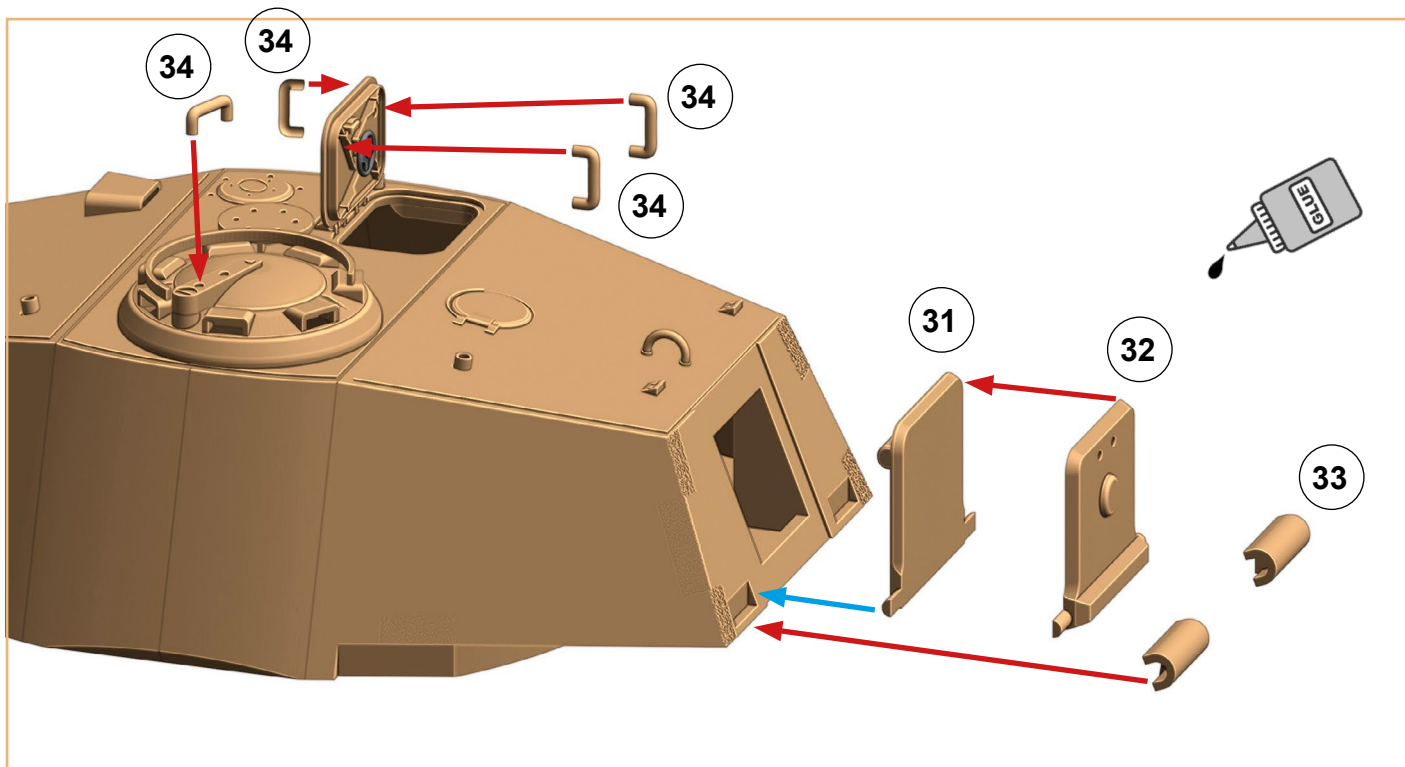


**Turret:**

**2x rod 1,5x10 mm**

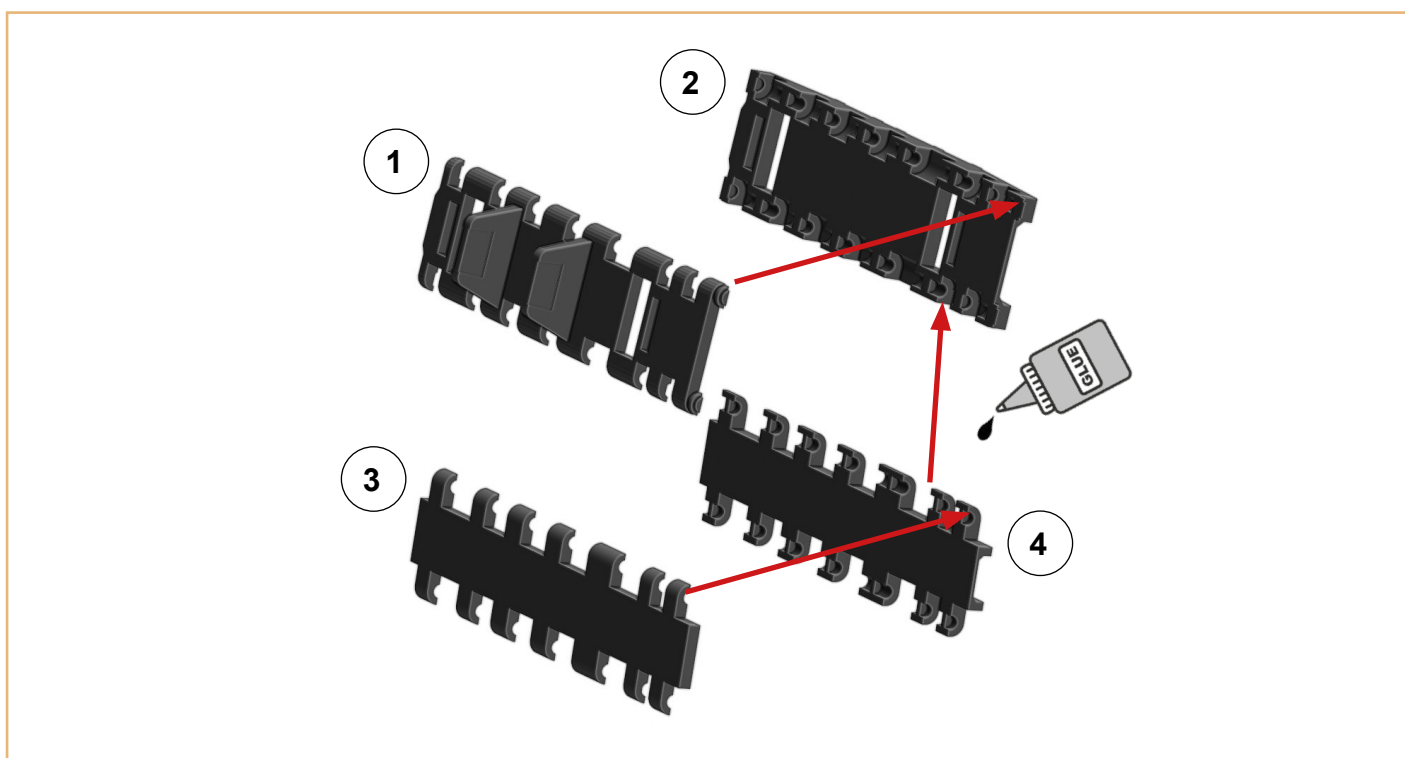


## Turret:



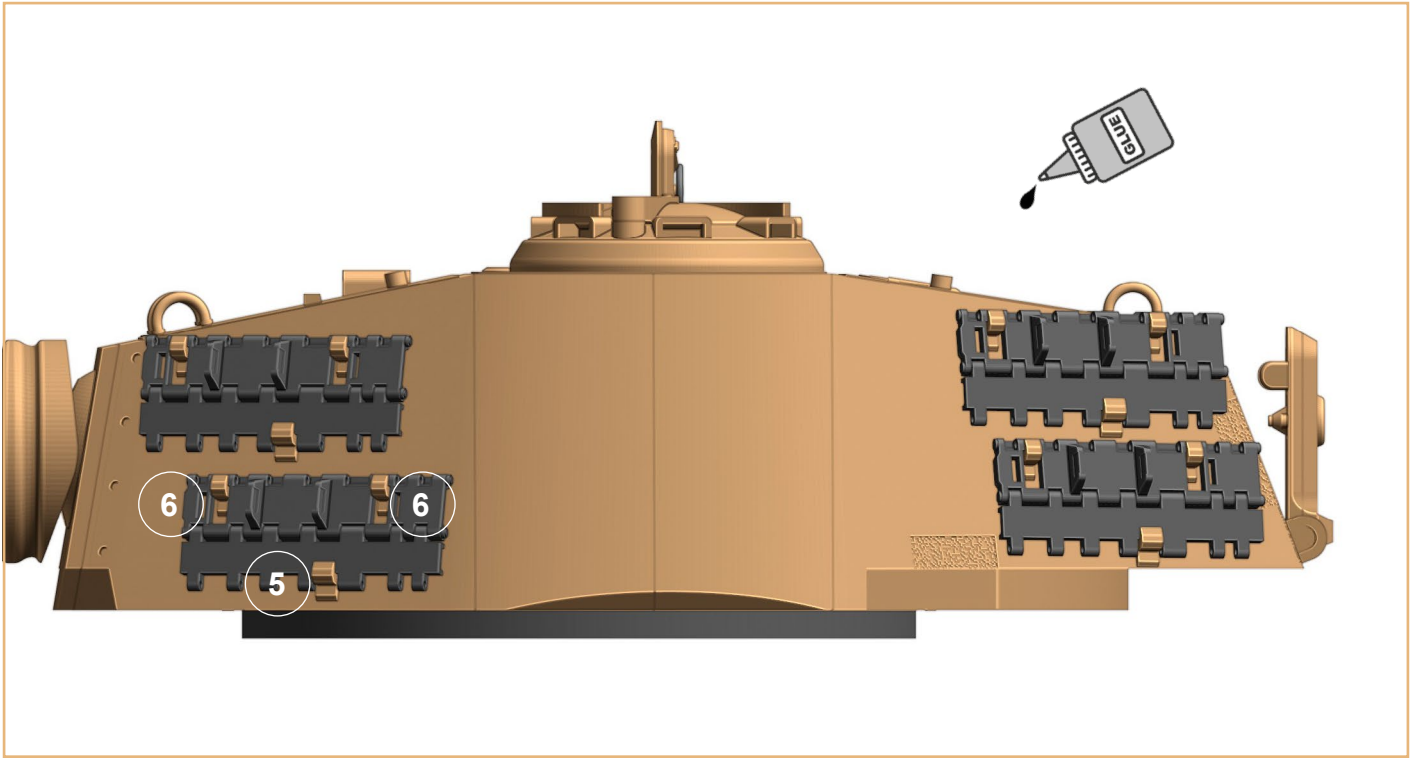
## Accessories:

8x

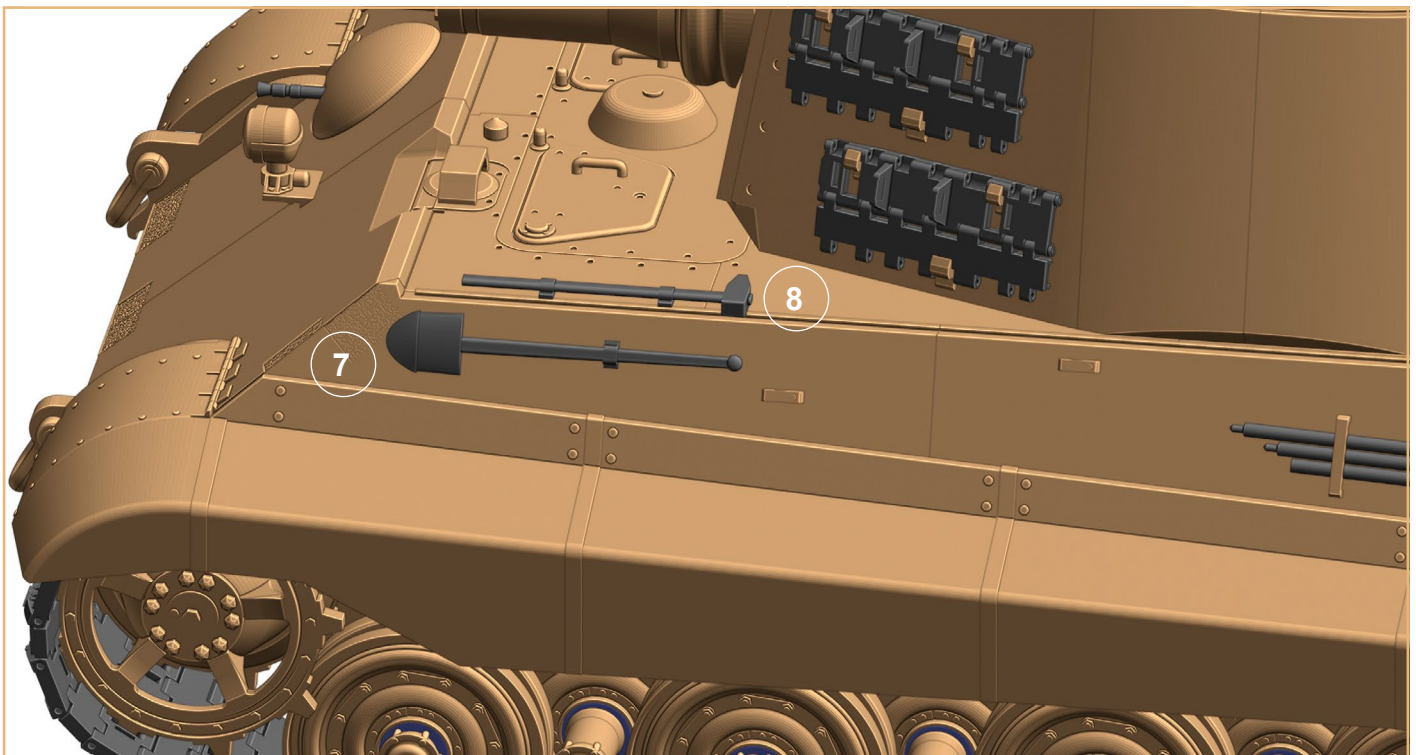


**Accessories:**

**exact position of spare tracks (8x):**

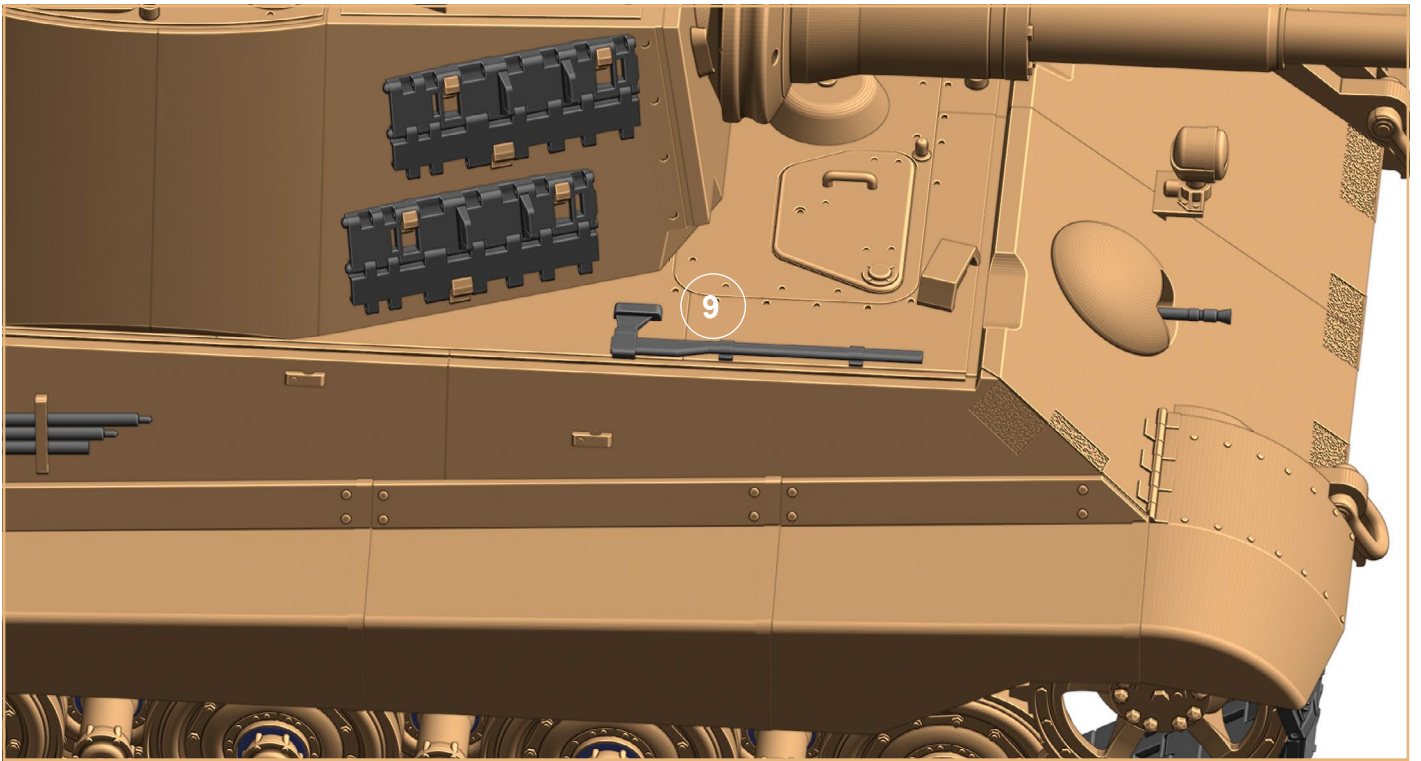


**Accessories:**

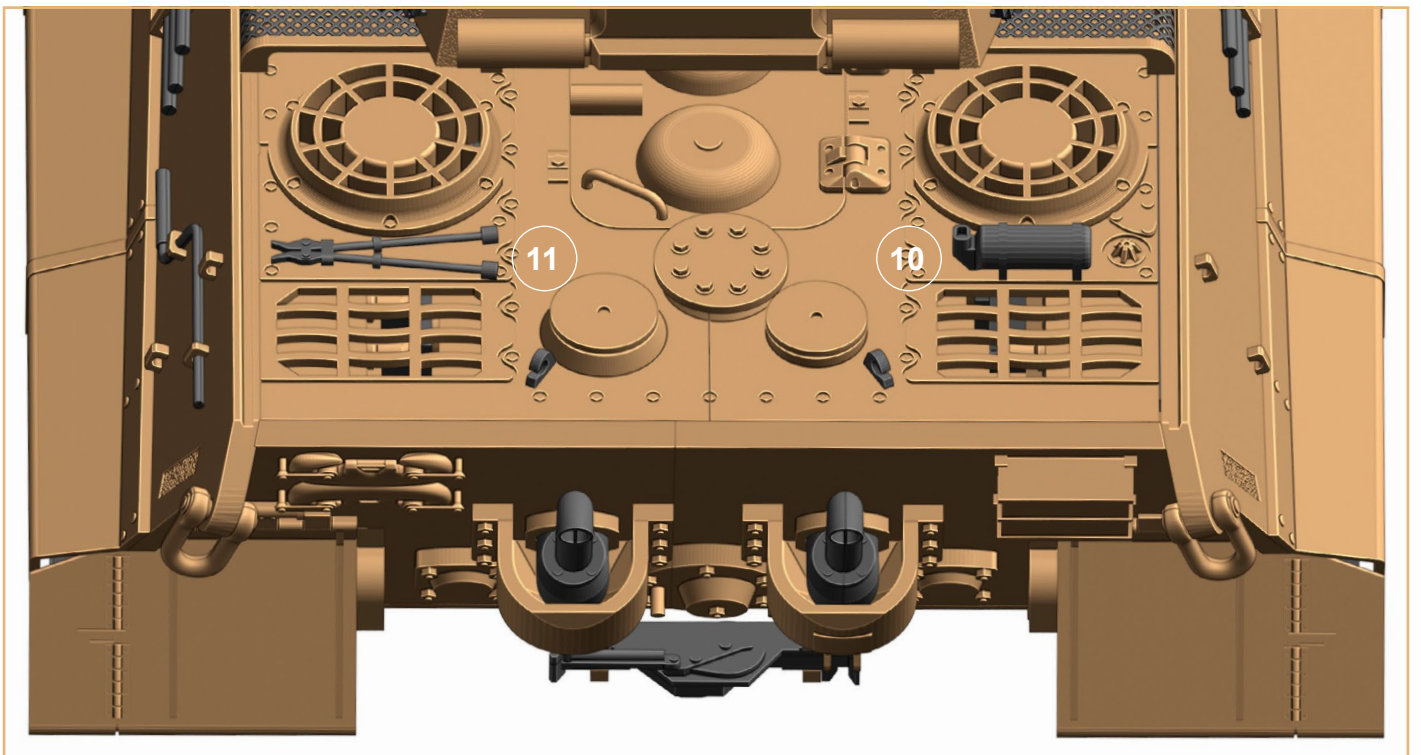




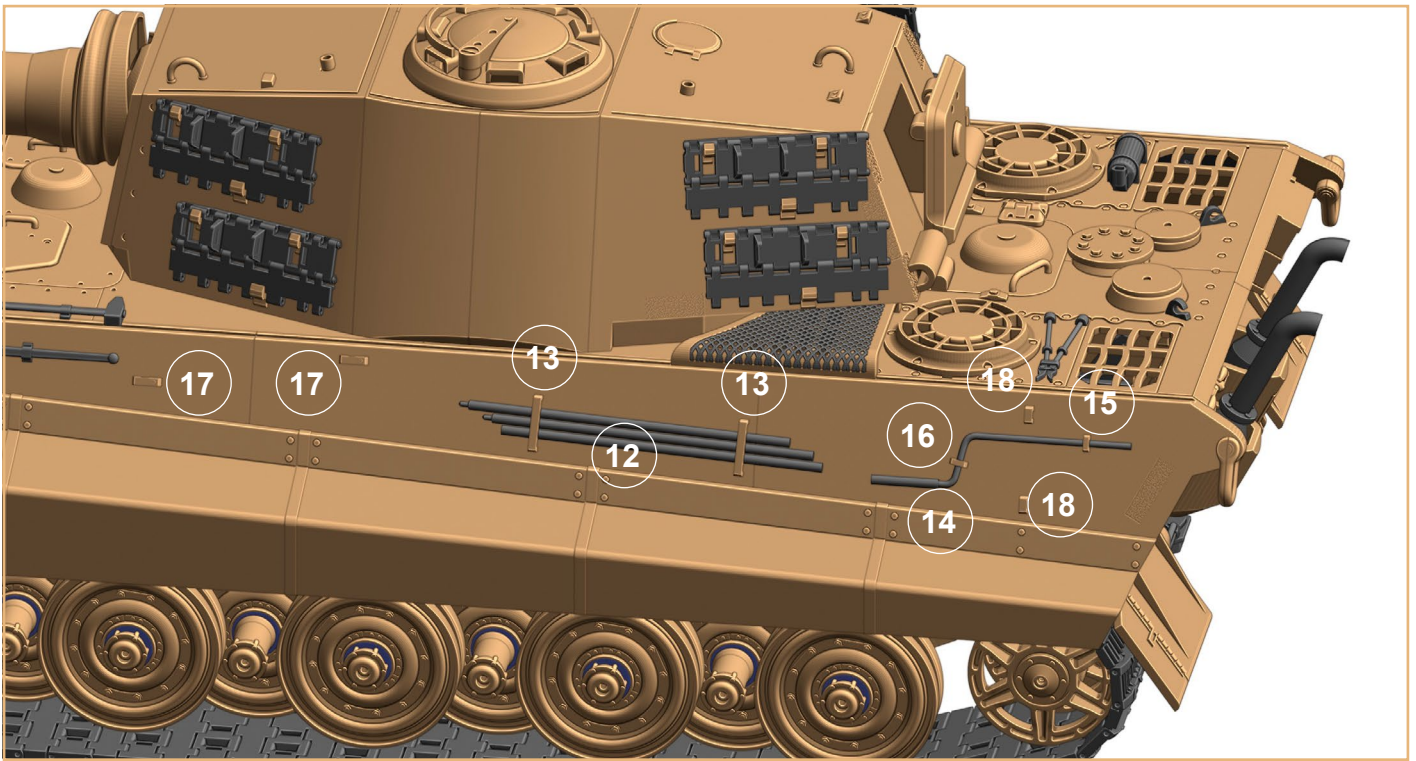
**Accessories:**



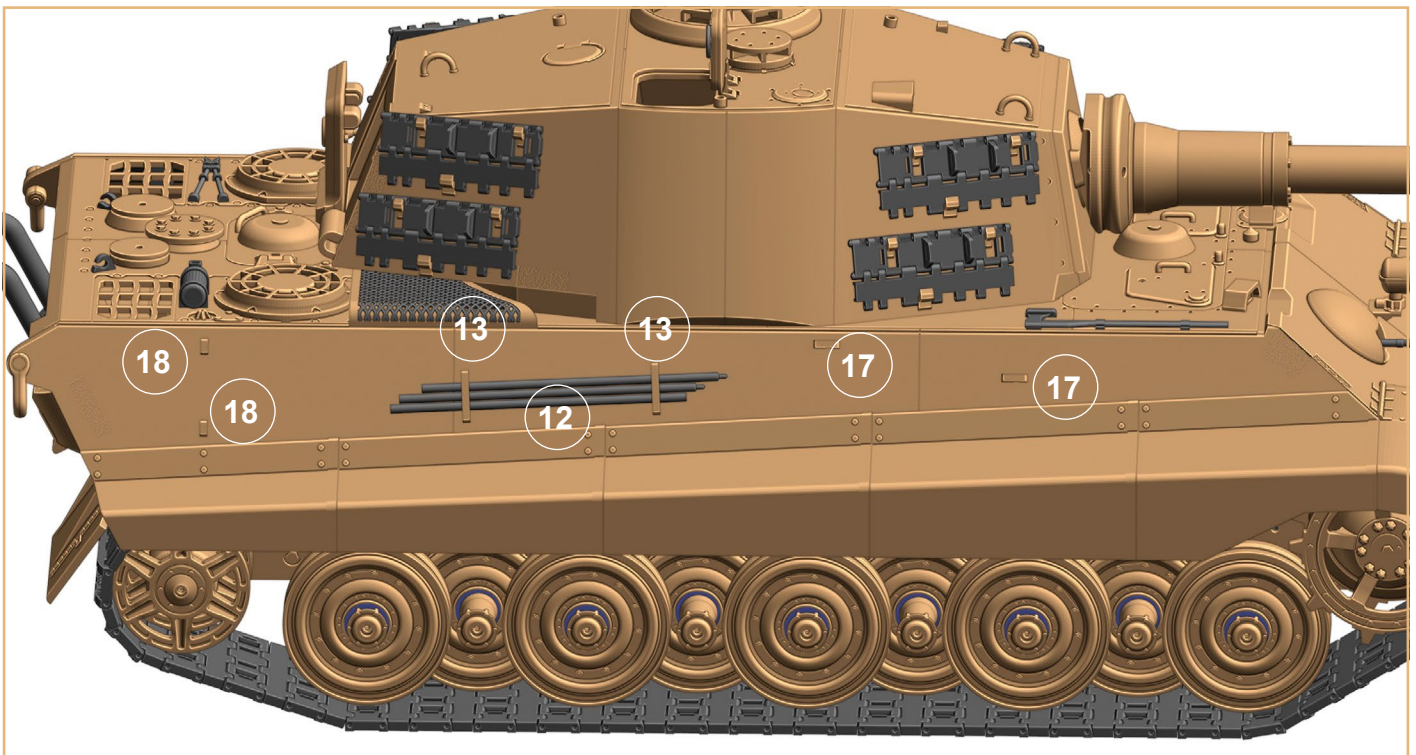
**Accessories:**



**Accessories:**



**Accessories:**





Detail:

