

# World Robot Olympiad 2025

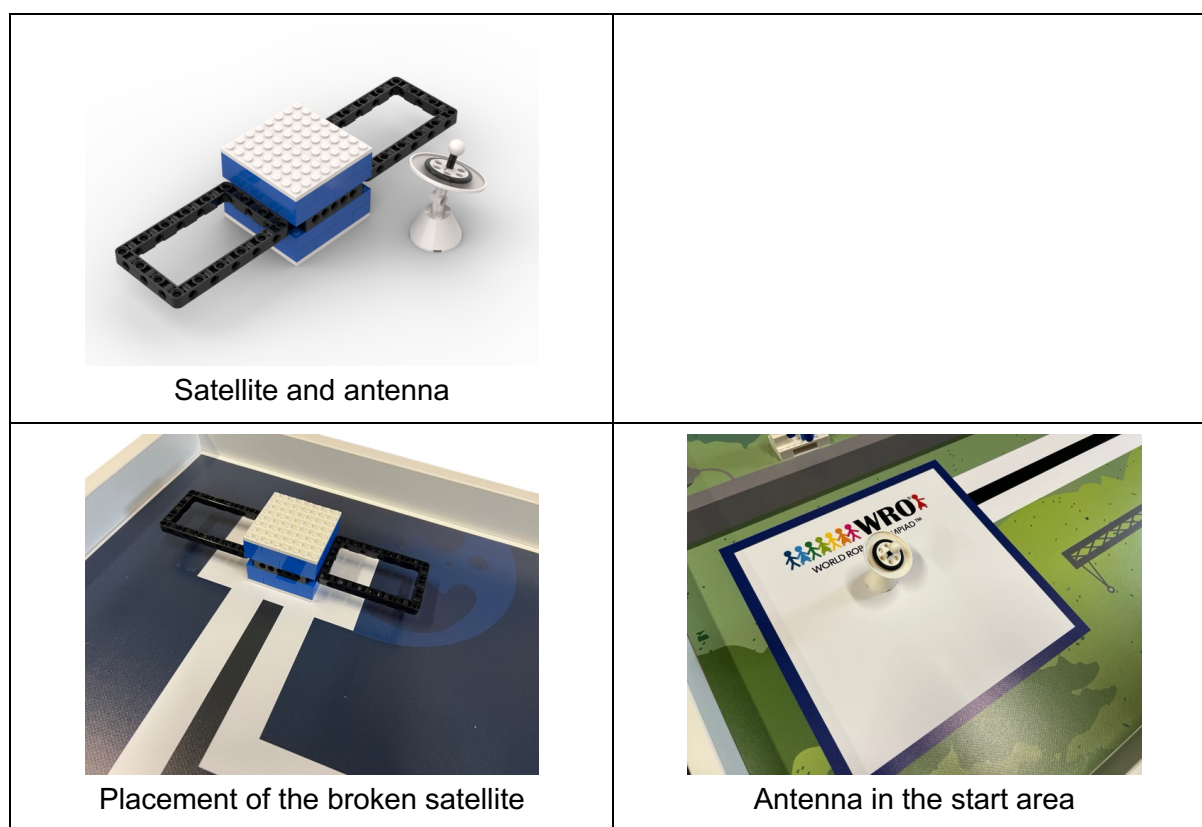
## RoboMission – Elementary

### Extra-Task “Broken Satellite” for the International Final published on October 9<sup>th</sup> 2025

*It is not necessary to solve this extra challenge to participate in the International Final,  
but it will always be placed on the game field!*

A broken satellite is placed on the free area in the top left corner of the game field. The satellite has lost its antenna and needs a new one. At the beginning, the new antenna starts in the start area and can be placed on the robot.

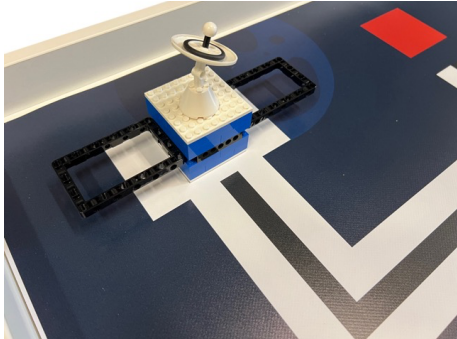
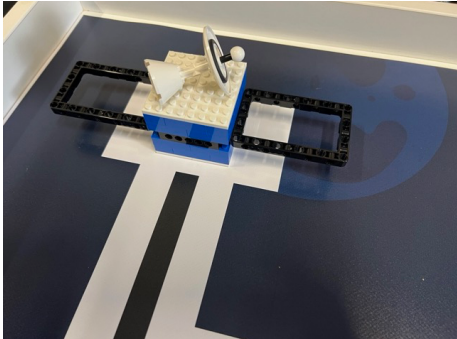
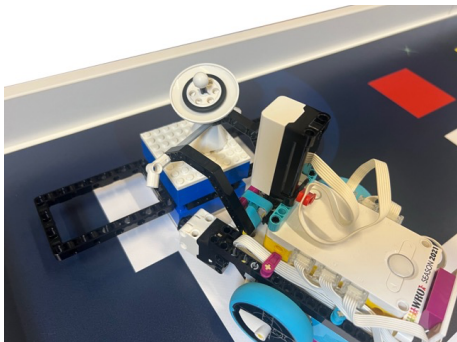
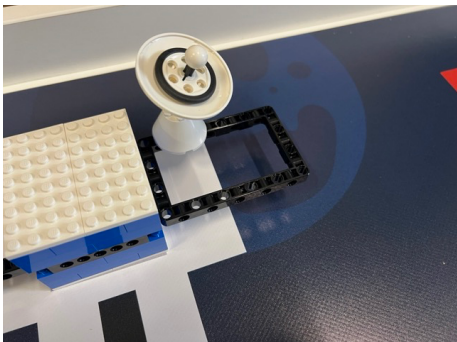
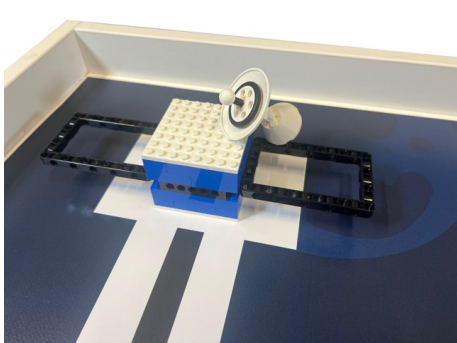
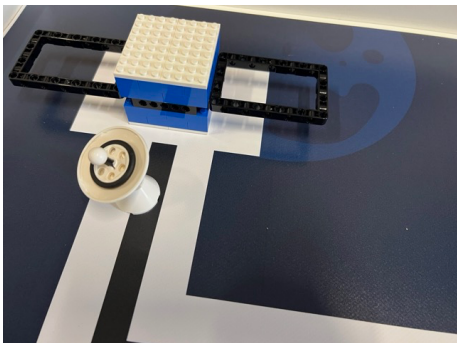
The antenna does not count towards the size restrictions of the robot. The antenna needs to be placed on top of the broken satellite (on top of the white plates).



Additional scoring lines will be added to the scoring sheet:

Extra-Task: Fix broken satellite		
Antenna is placed on top of the broken satellite	15	15
<b>New maximum score</b>		<b>170</b>

## Scoring Interpretation

 <p>15 points (antenna is on top of satellite)</p>	 <p>15 points (antenna is on top of satellite)</p>
 <p>15 points (robot is allowed to touch the antenna)</p>	 <p>0 points (antenna placed on wing)</p>
 <p>0 points (antenna not fully on top of satellite)</p>	 <p>0 points (antenna not on satellite)</p>

# New Full Scoring Sheet

Team name: \_\_\_\_\_

Round: \_\_\_\_\_

Tasks	Each	Max.	#	Total
<b>Fuel the rocket</b>				
Fuel is completely inside the rocket fuel area (no matter if standing or lying)	10	10		
Fuel is touching the rocket fuel area	5			
<b>Launch the rocket</b>				
Rocket reached the orbit (Rocket is beyond 2nd red marker)	15	15		
Rocket is in flight (Rocket is beyond 1st red marker, but not beyond 2nd red marker)	5			
<b>Collect the satellites and bring them into space (only one satellite per orbit)</b>				
Satellite is completely in satellite orbit of the correct colour	20	80		
Satellite is partly touching any satellite orbit	5			
<b>Collect space debris and bring it back</b>				
Space debris is touching the start area	10	30		
<b>Bonus for astronauts &amp; barrier</b>				
Astronaut is not damaged or moved	5	10		
Barrier is not damaged or moved	10	10		
<b>Extra-Task: Fix broken satellite</b>				
Antenna is placed on top of the broken satellite	15	15		
<b>New maximum score</b>		170		
<b>Surprise Rule</b>				
<b>Total Score in this run</b>				
<b>Time in full seconds</b>				



4x  
2780  
Black



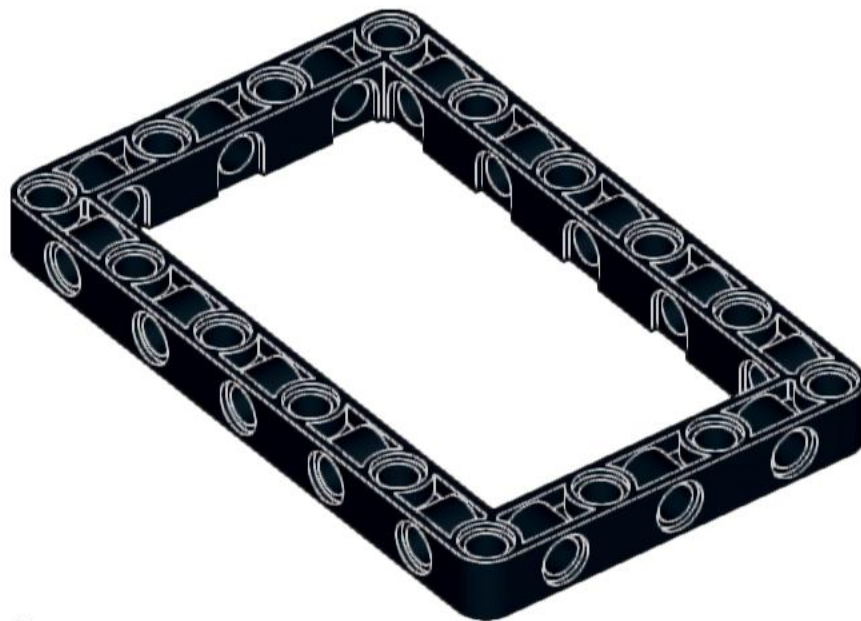
1x  
3705  
Black



1x  
2815  
Black



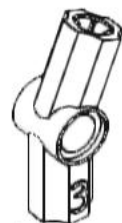
6x  
3894  
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2x  
39794  
Black



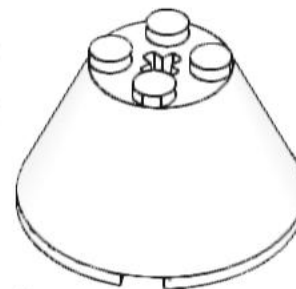
1x  
32474  
White



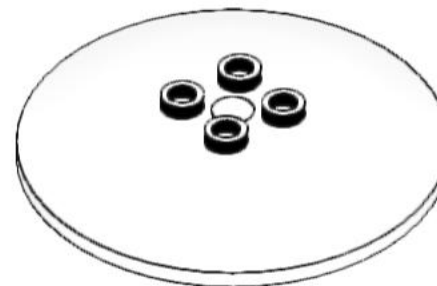
1x  
32016  
White



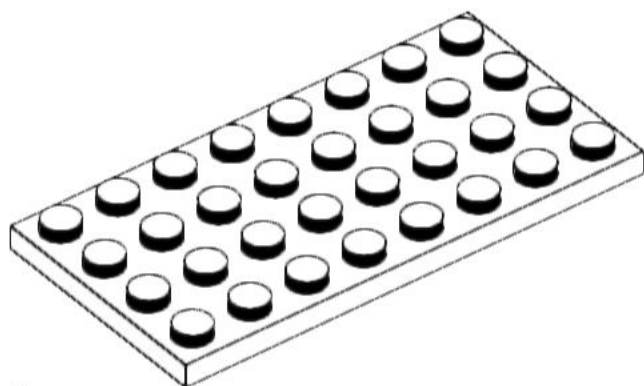
1x  
4185  
White



1x  
3943b  
White



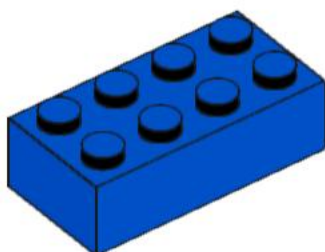
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44375a  
White



4x  
3035  
White



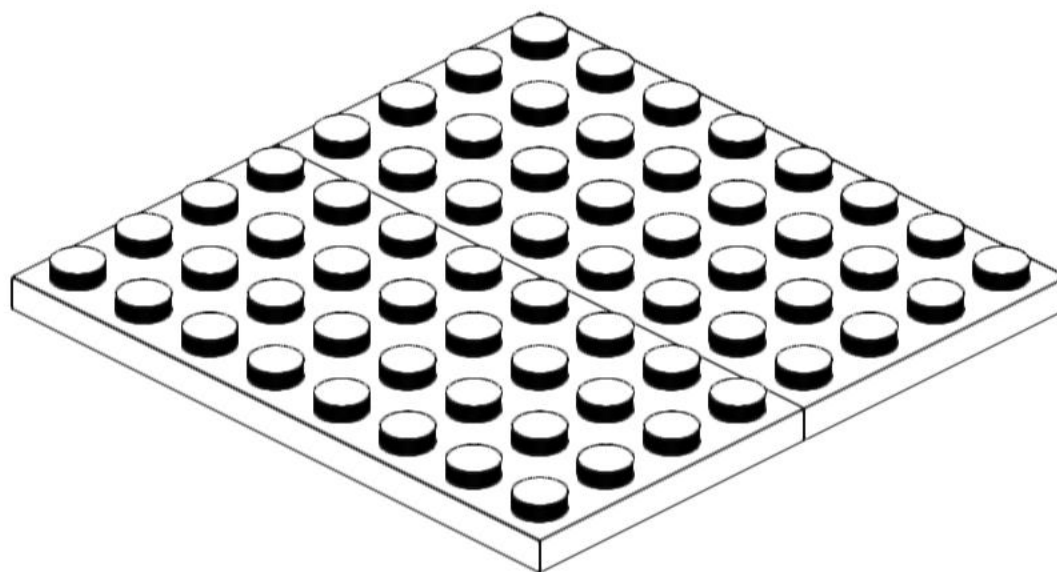
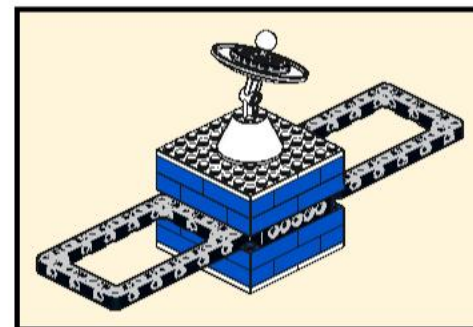
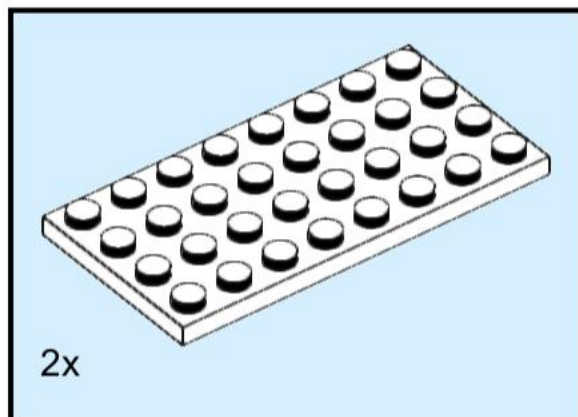
1x  
32062  
Red



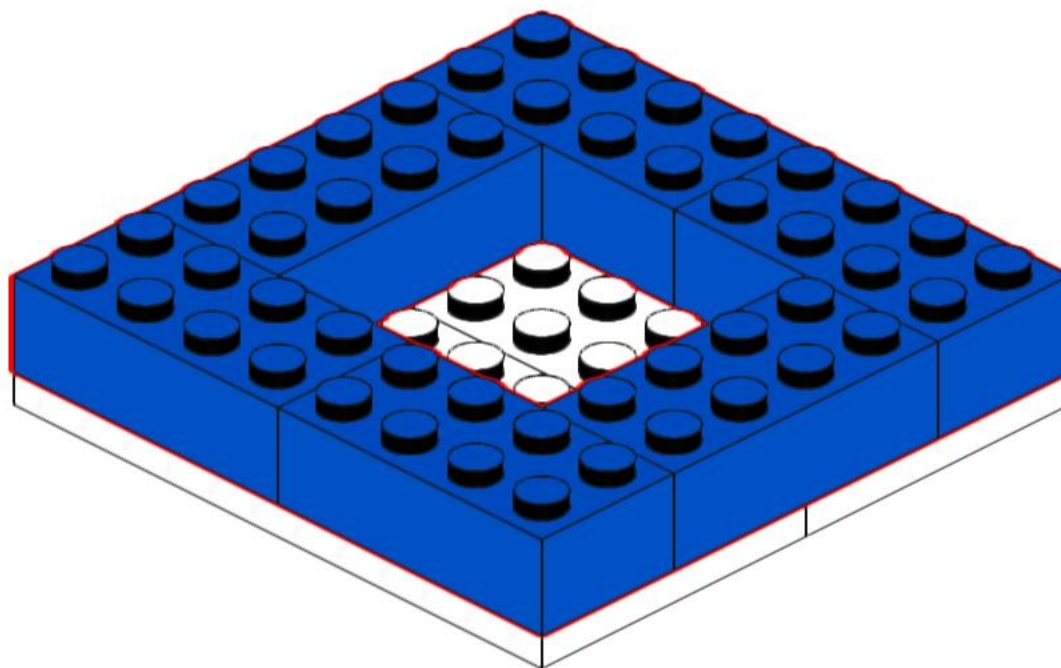
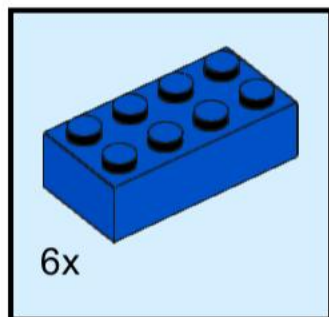
24x  
3001  
Blue



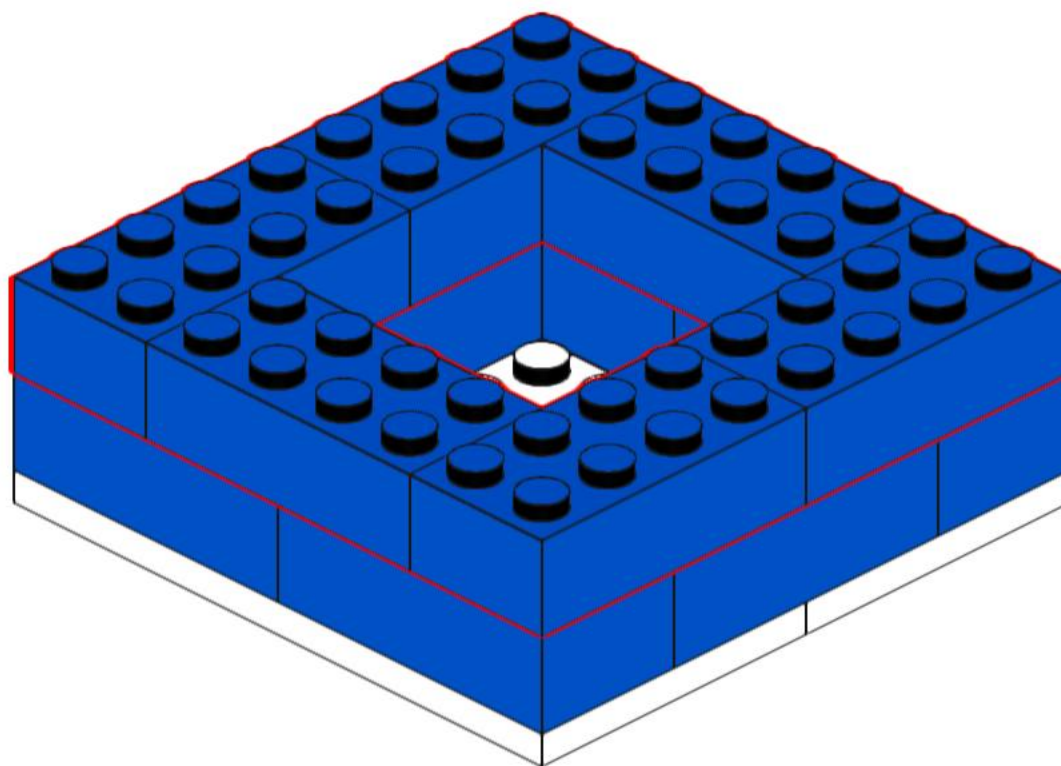
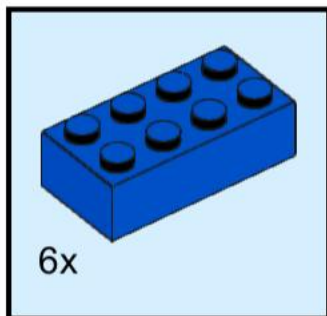
1



2

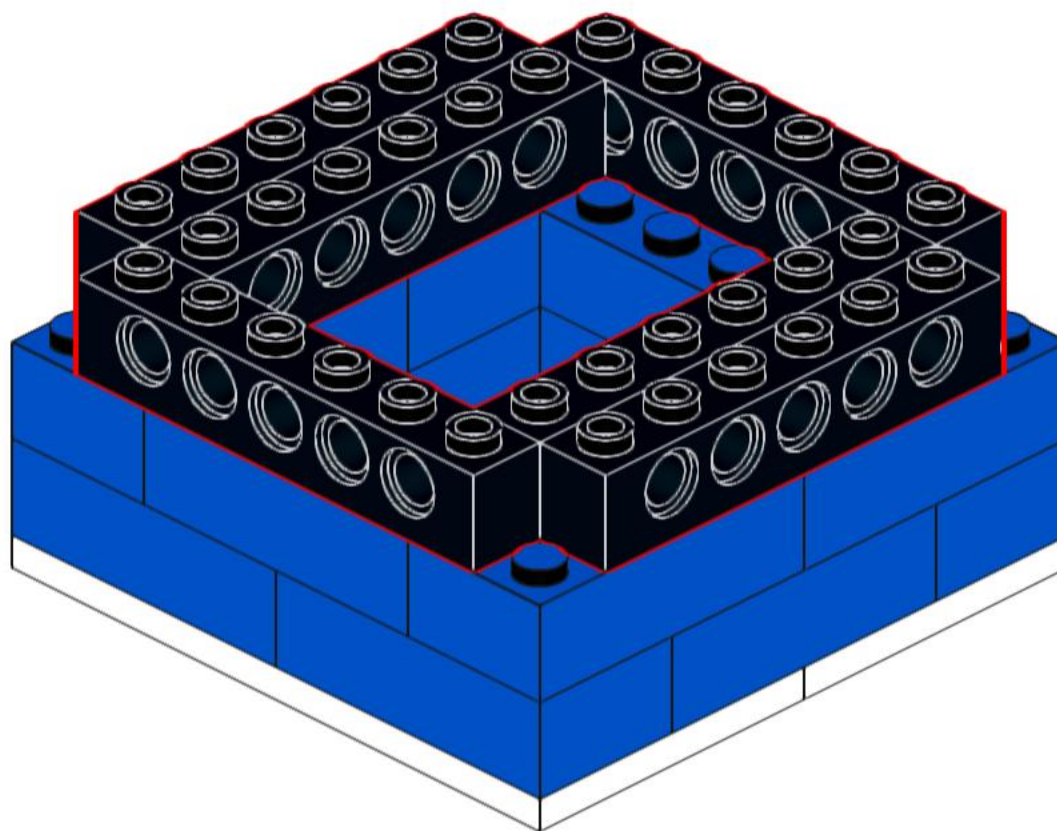
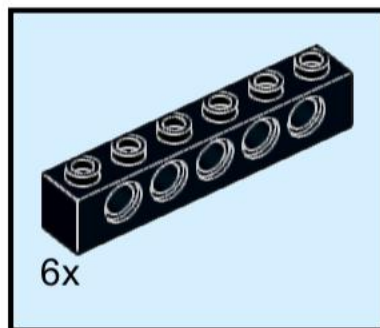


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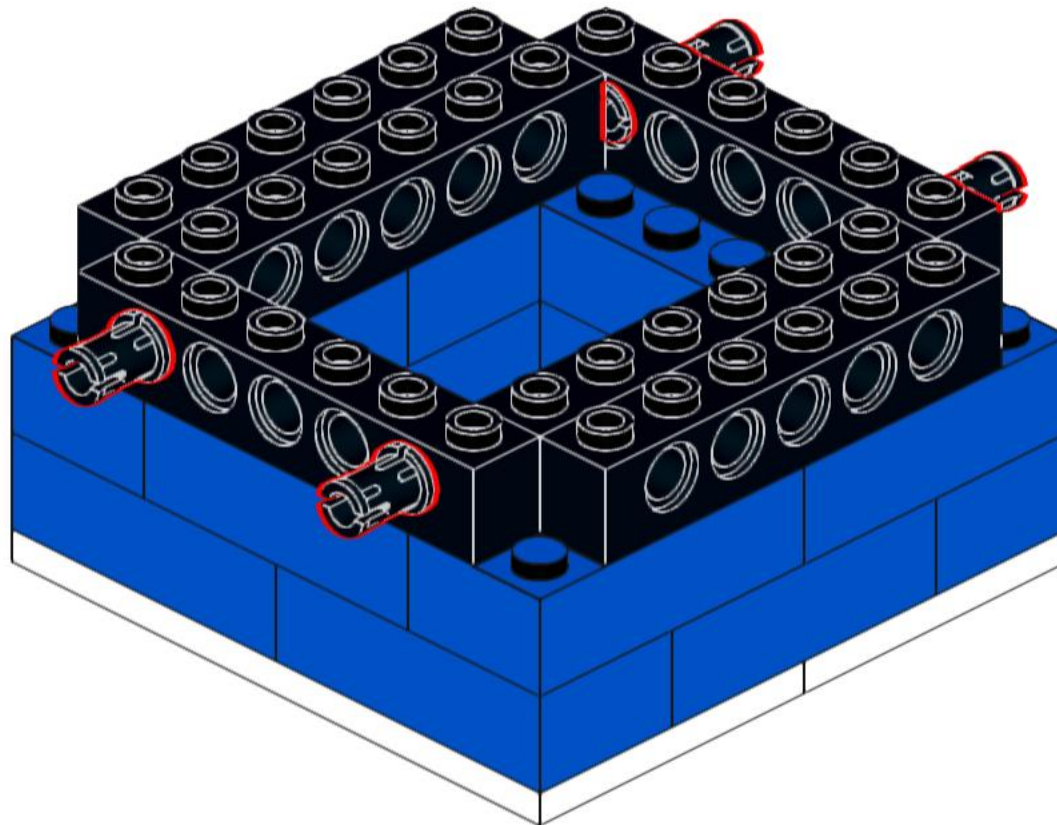




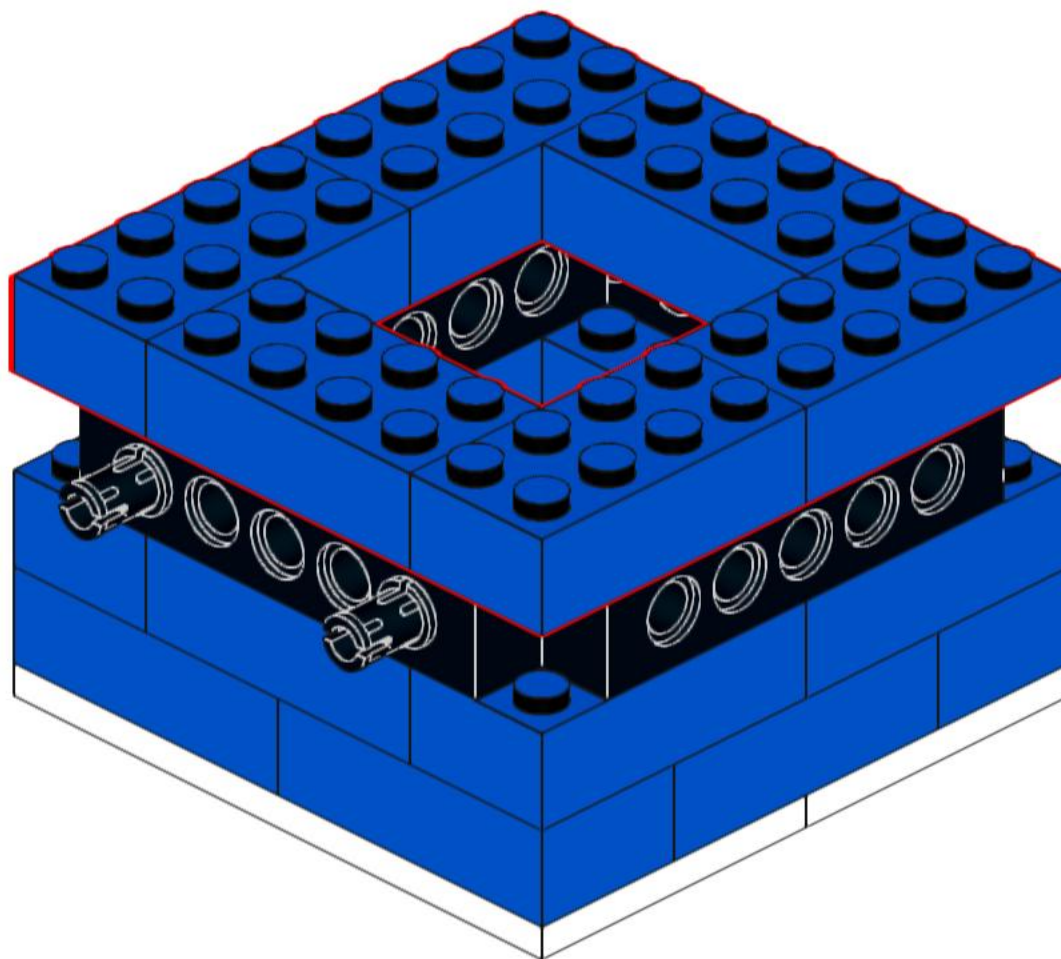
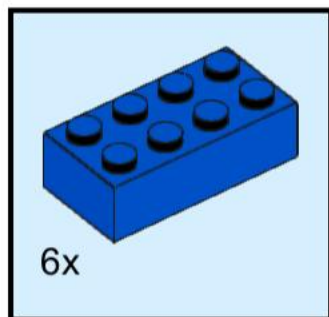
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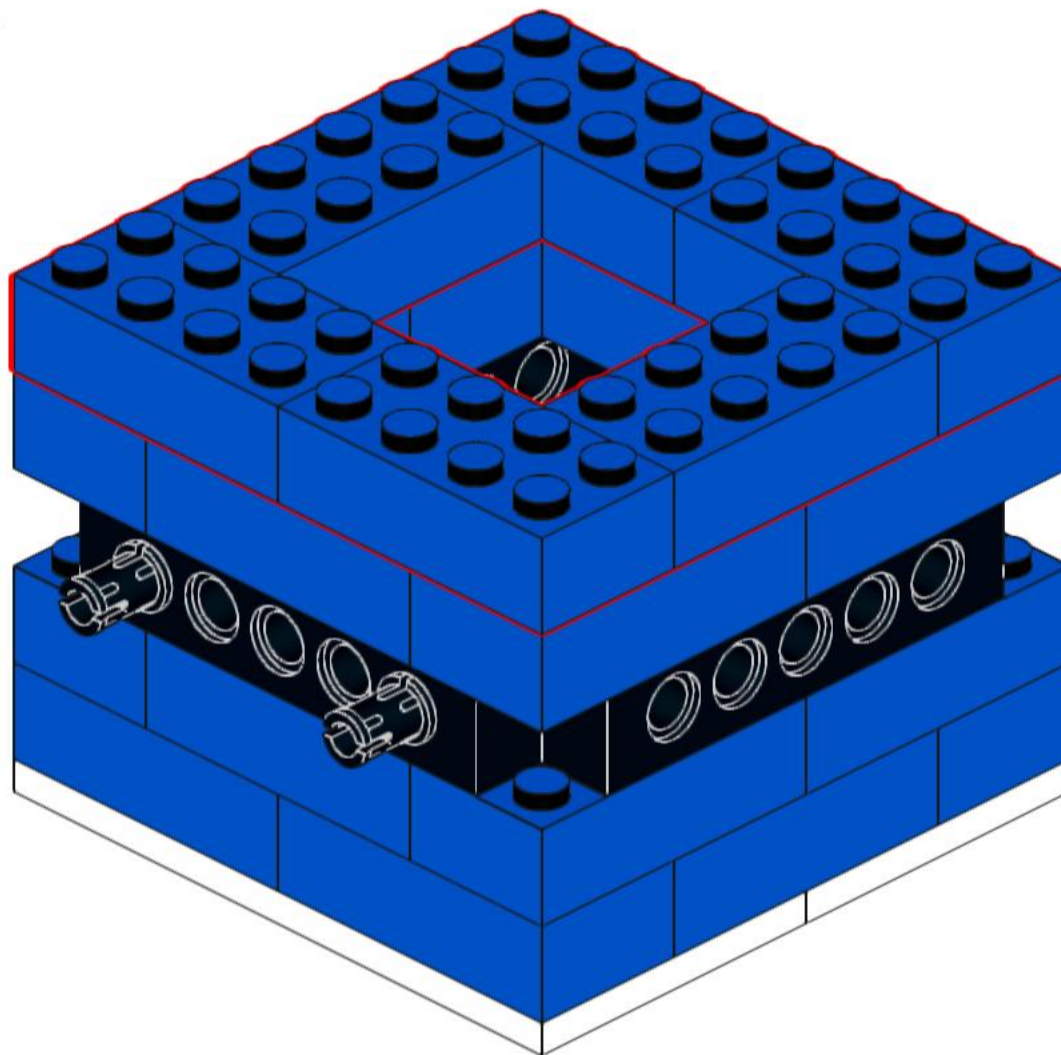
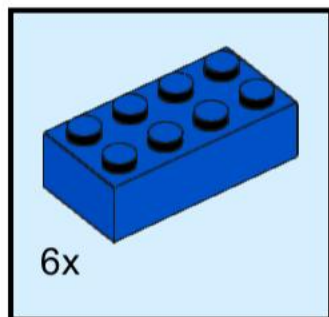
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6

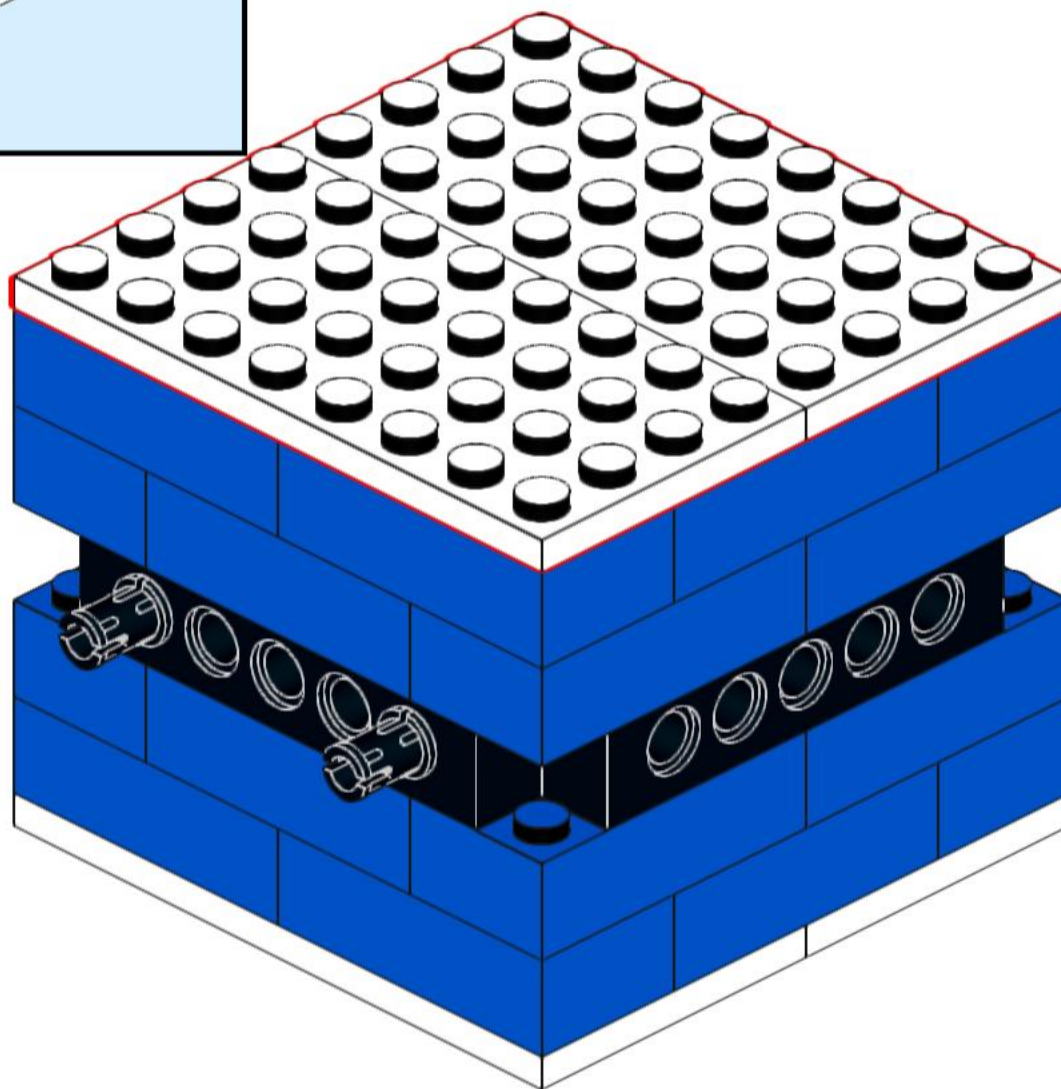
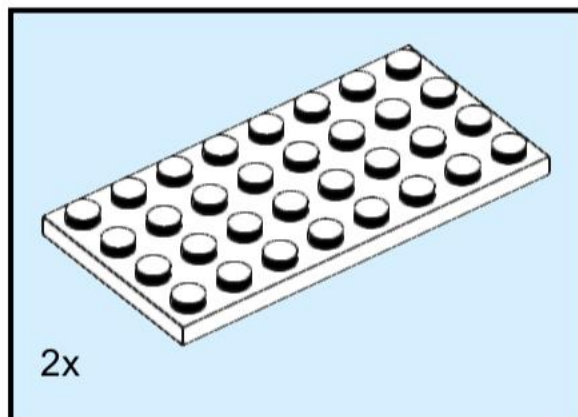


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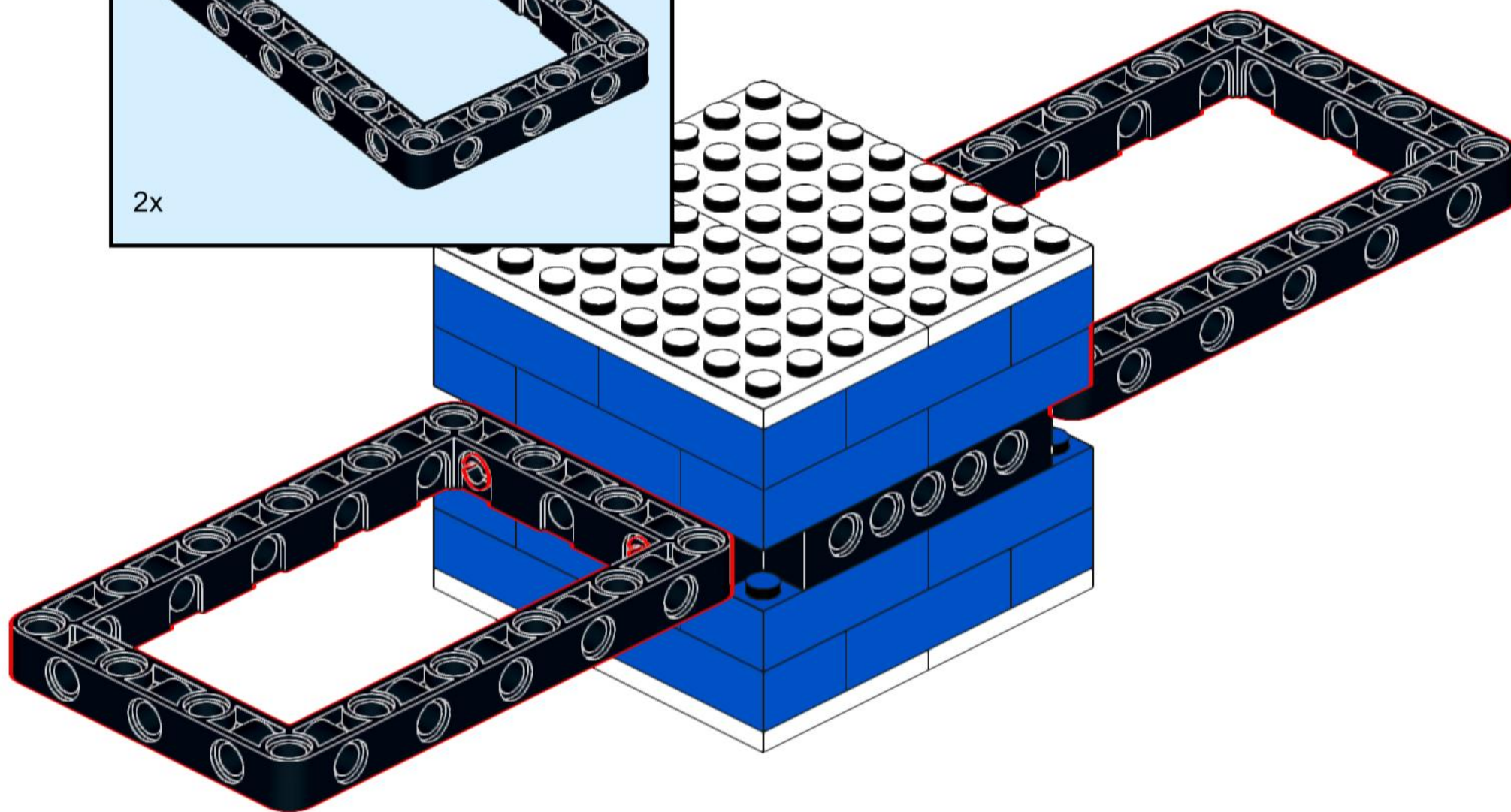
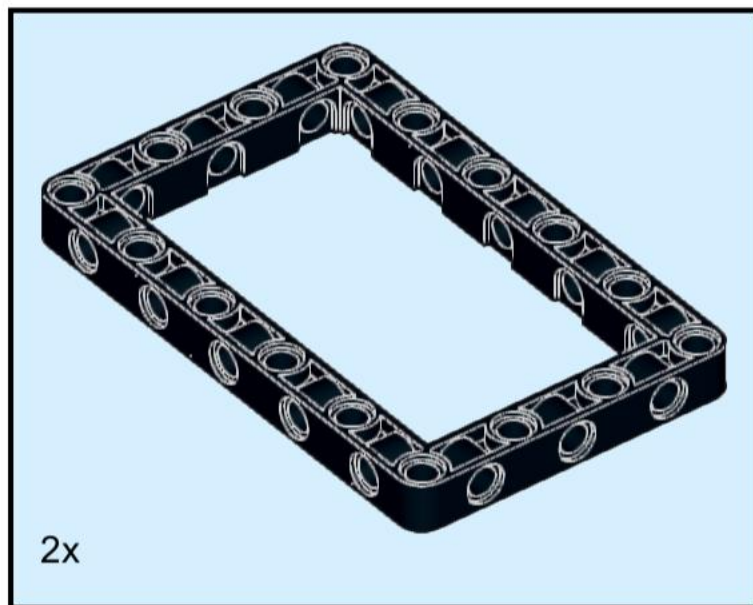




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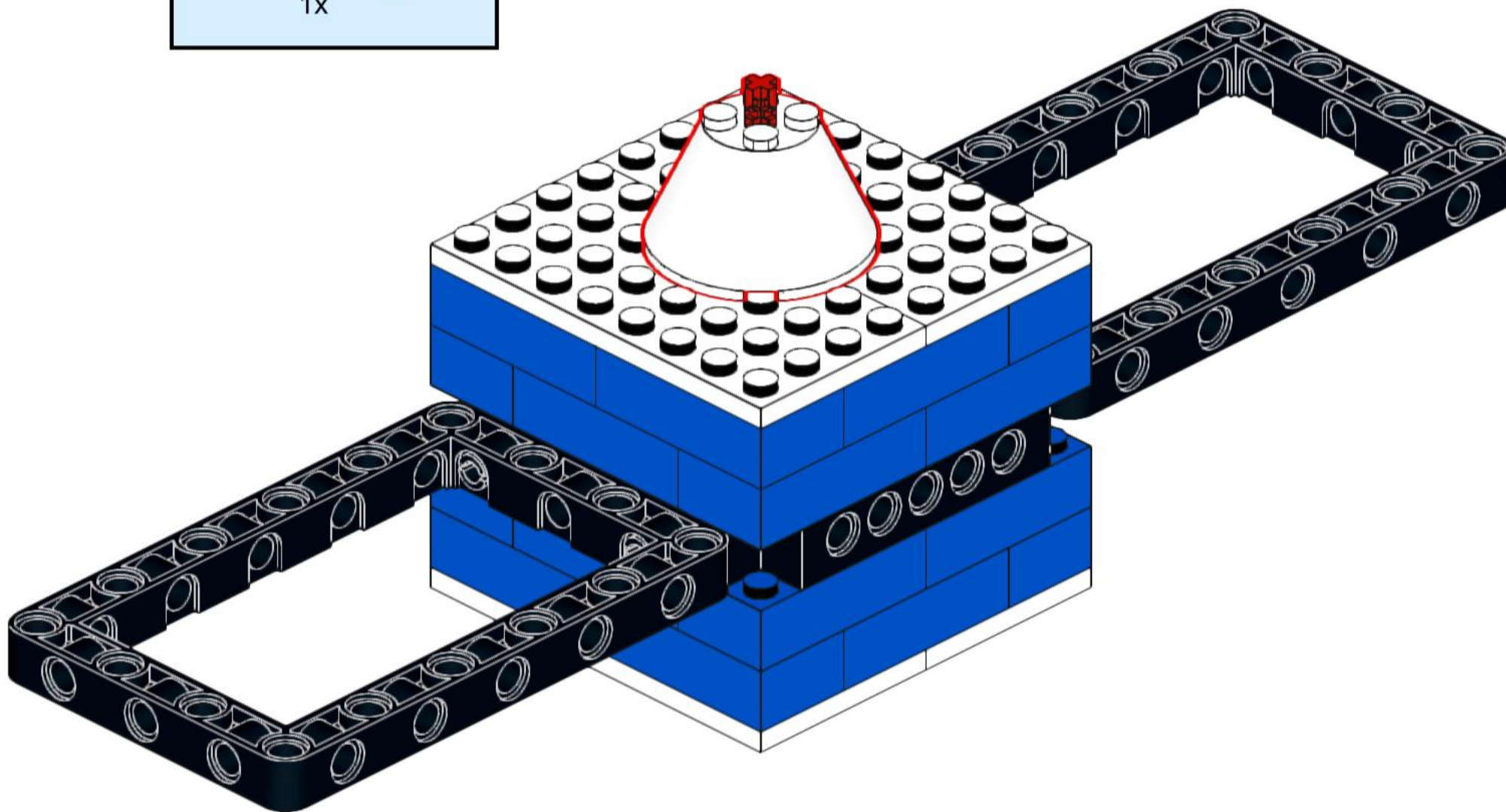
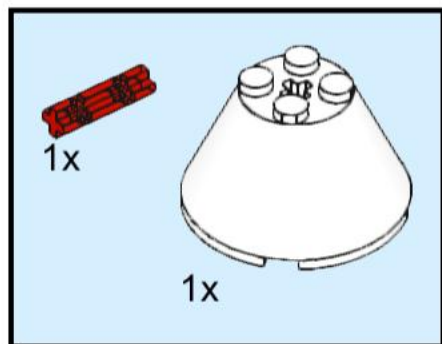


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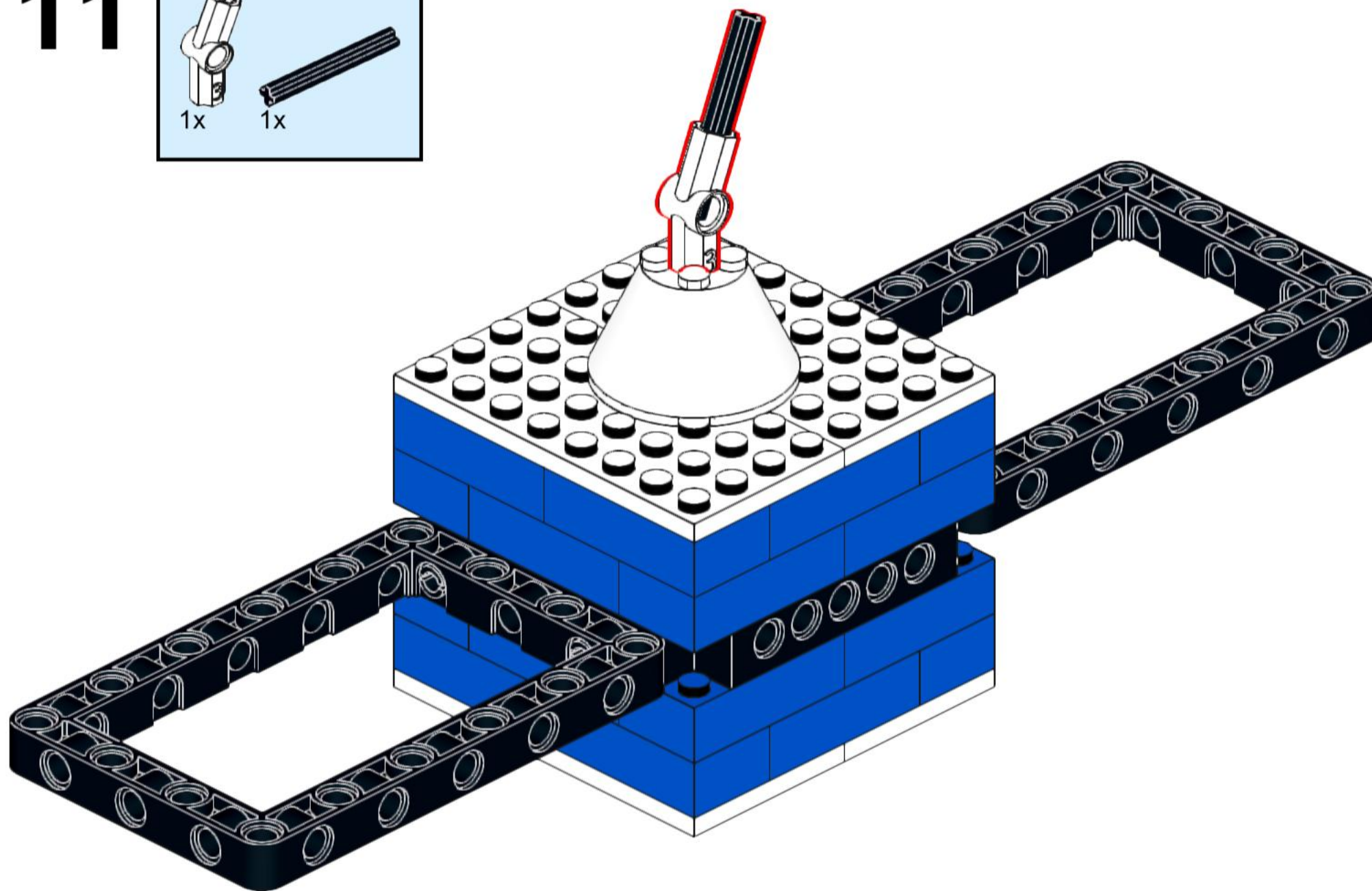
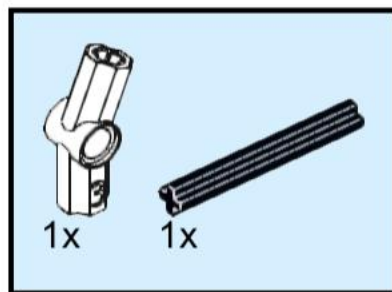




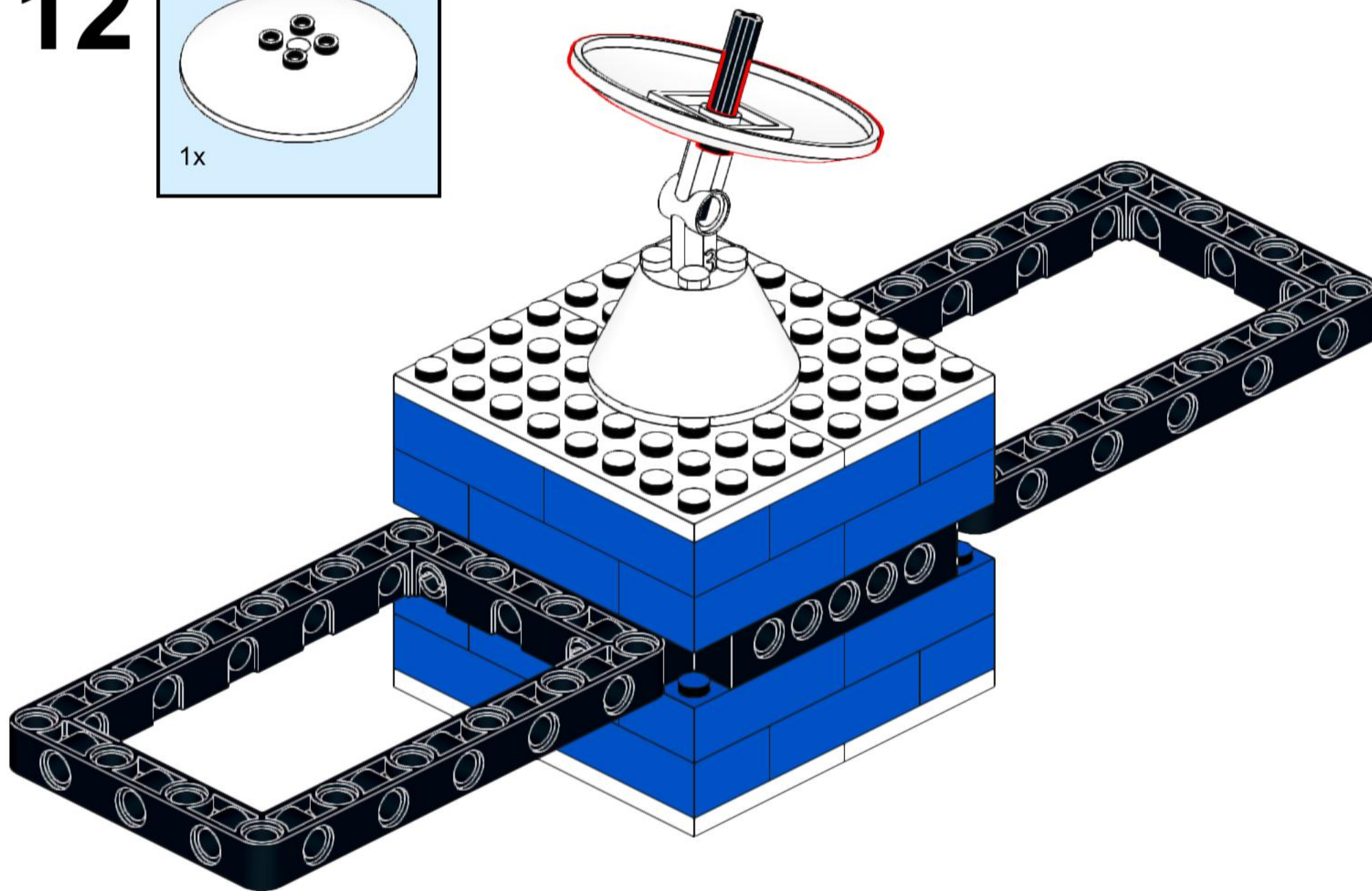
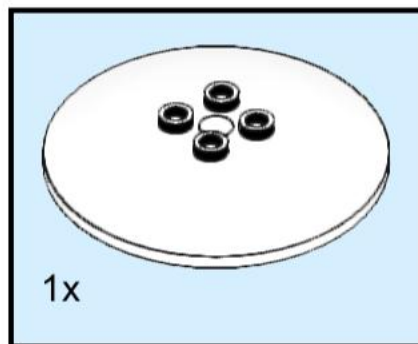
# 10



# 11

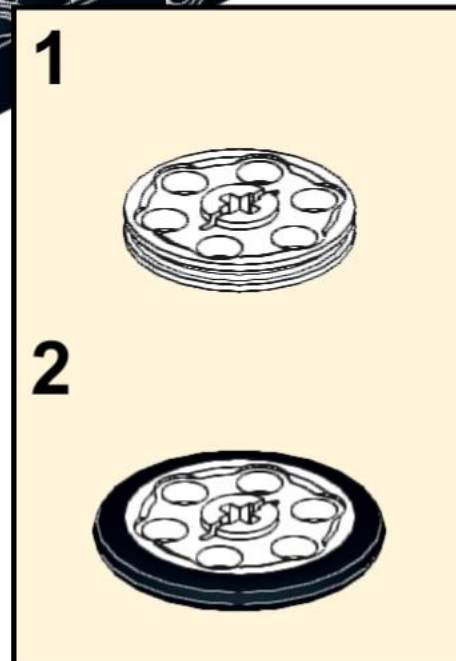
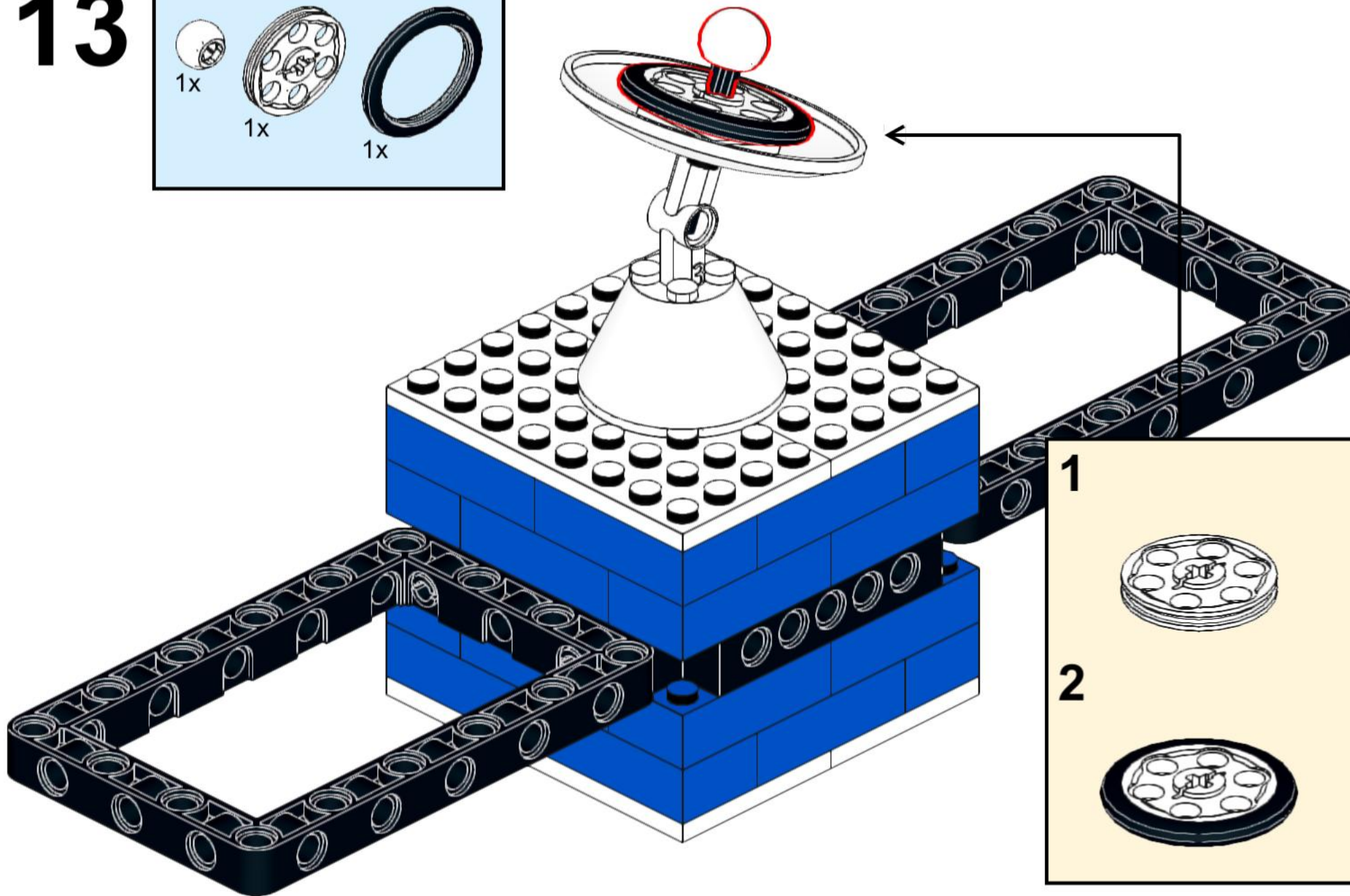
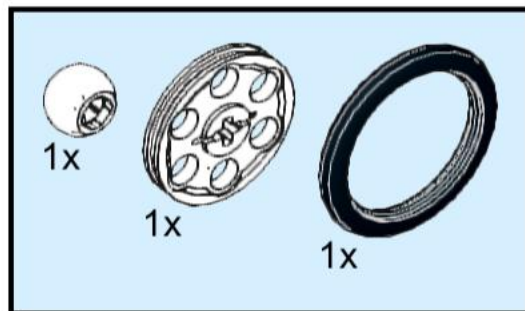


# 12





# 13



14

