



NASA
Space Shuttle Discovery STS-31

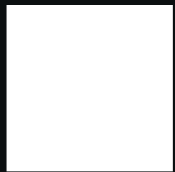
Wingspan:	78.04 ft
Launches:	29
Active:	August 30, 1984 - March 9, 2011
Orbital Velocity:	17,500 mph
Max Altitude:	500 miles
Earth Orbits:	6,830
Time in Space:	1 year, 22 hours, 39 minutes, 33 seconds



NASA **esa**
Hubble Space Telescope

Launch:	April 24, 1990
Launch Mass:	24,290 lbs
Velocity:	4.72 miles
Deploy Altitude:	500 miles

Booklet available in English on
Heft in deutscher Sprache erhältlich auf
Livret disponible en français sur
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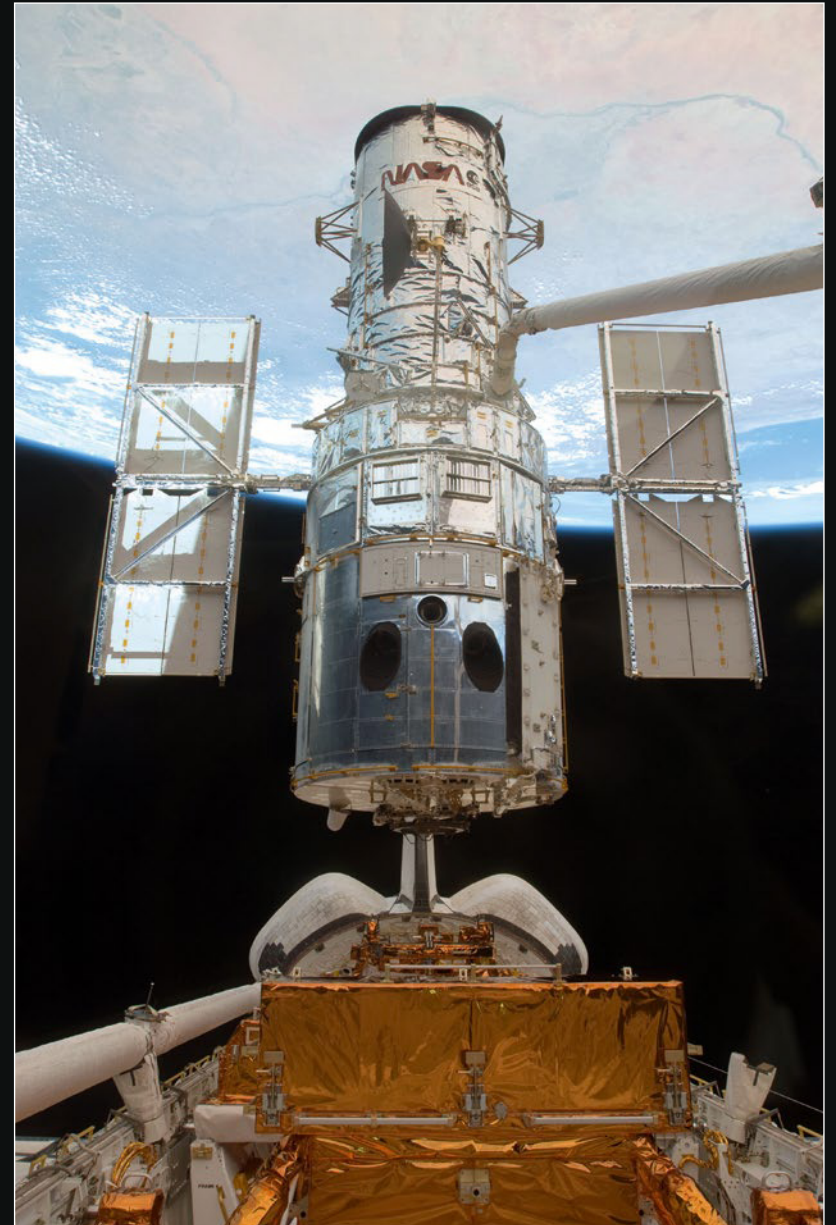
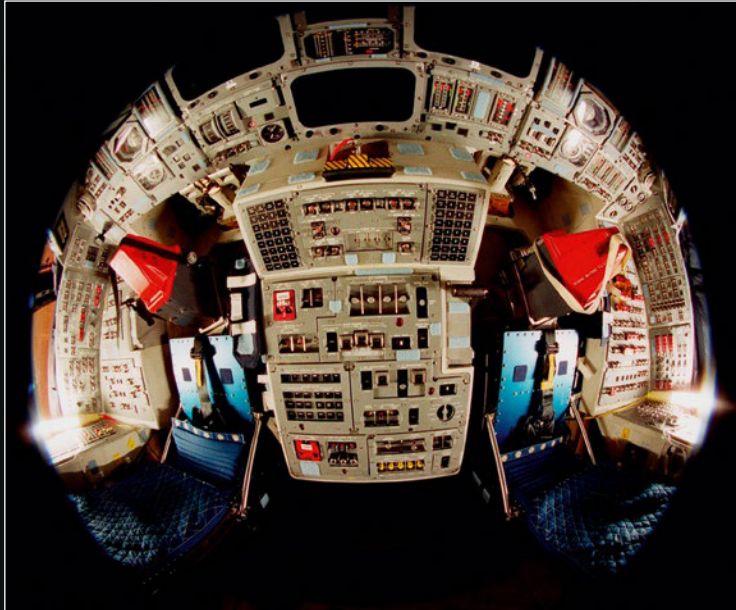


A SPACEFLIGHT ICON

Five Space Shuttle Orbiters made up NASA's Space Transportation System (STS) fleet – *Columbia*, *Challenger*, *Discovery*, *Atlantis* and *Endeavour*. Combined, they flew 135 missions carrying 355 people into space. *Discovery* flew the most missions, carrying the highest number of passengers, while traveling further and higher than the other orbiters. It also was *Discovery*'s assignment to launch and deploy the Hubble Space Telescope in April 1990 as part of the STS-31 mission. In 2021, the 40th Anniversary of the Space Shuttle Program, we take the opportunity to revisit this famous mission.

THE MISSION

The launch and deployment of the Hubble Space Telescope in April 1990 marked the most significant advancement in astronomy since Galileo's telescope. It was the first major optical telescope to be placed in space, the ultimate mountaintop. Above Earth's atmospheric distortion, rain clouds and light pollution, Hubble had an unobstructed view of the universe. Scientists have used Hubble to observe the most distant stars and galaxies, as well as the planets in our solar system.



FROM THE DESIGN TEAM

The Space Shuttle is one of the most complex vehicles ever made, so translating this into a LEGO® set was a little daunting. We needed to create a smooth exterior and an interior capable of holding the payload, but the biggest challenge was adding functional landing gear. Trying to couple the front and main landing gear without removing any space from the payload bay and without compromising the structure of the model was a real puzzle! It's easy to be blown away by the complex engineering and sheer power of these vehicles, but for me the most fascinating thing about space flight is the human element. That's why my favourite part of this model are the tiny blue seats that carried 5 human beings on this special mission. I spent hours as a kid building my own versions of the Lunar Lander and Discovery Orbiter in LEGO bricks, so to be asked to work on this project was so exciting and such a privilege.

LEGO® Designer, Milan Madge



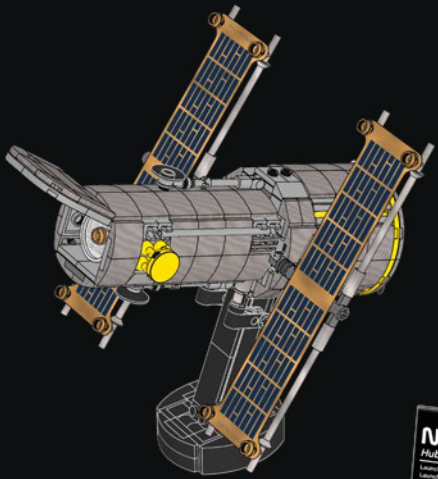
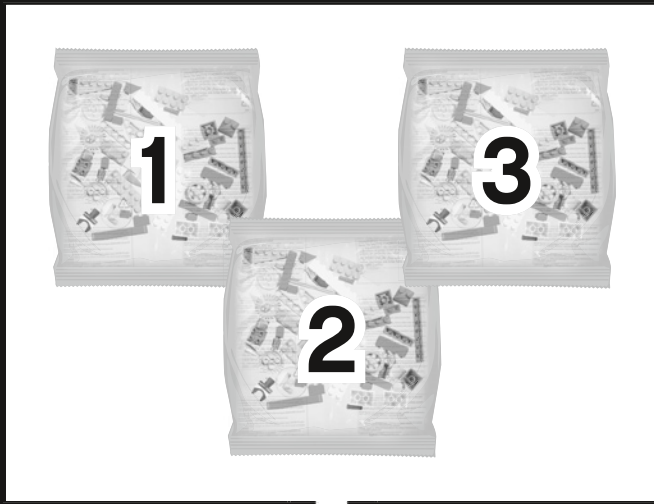


FUTURE ENDEAVOURS

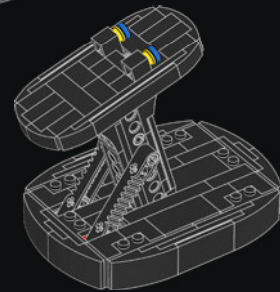
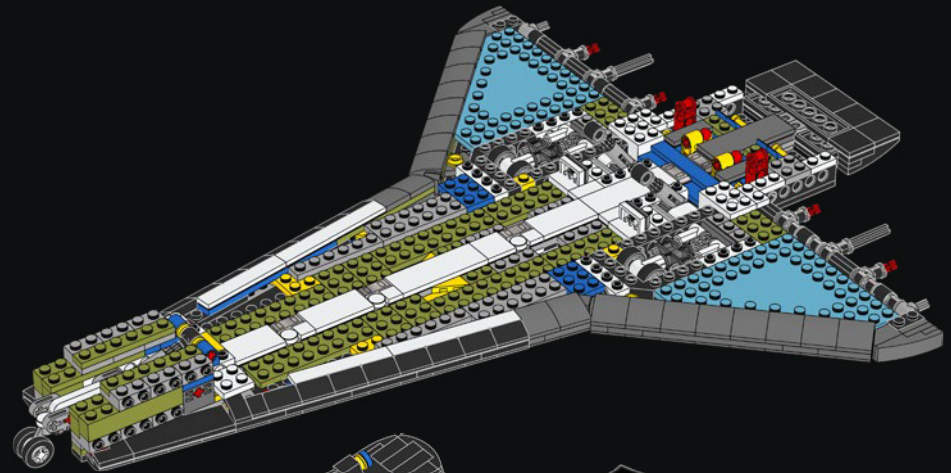
Since retiring the space shuttle in 2011, NASA has created public-private partnerships with the companies Boeing and SpaceX to develop and operate a new generation of spacecraft and launch systems, capable of carrying crews to low-Earth orbit and the International Space Station. Encouraging industry to provide human transportation services to and from low-Earth orbit allows NASA to expand its focus on building spacecraft and rockets for the next giant leap, with space missions to the Moon and Mars.



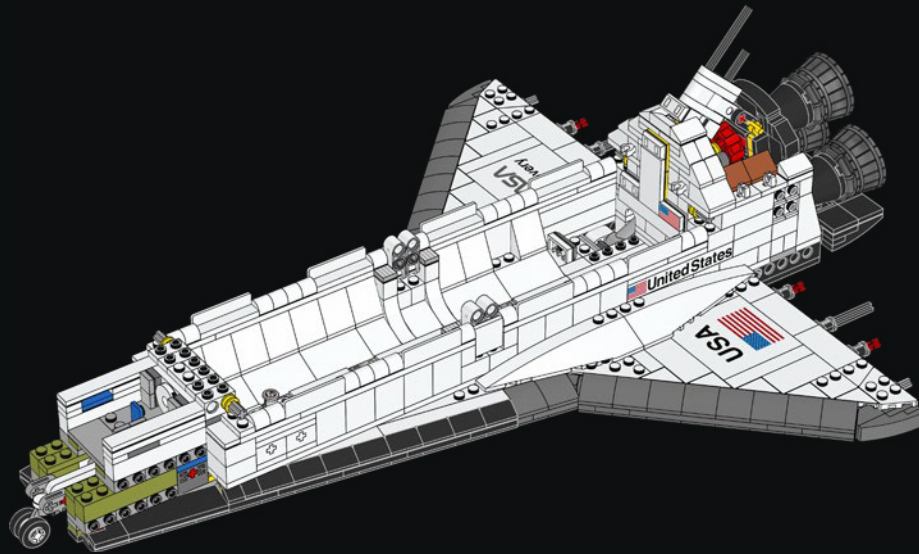
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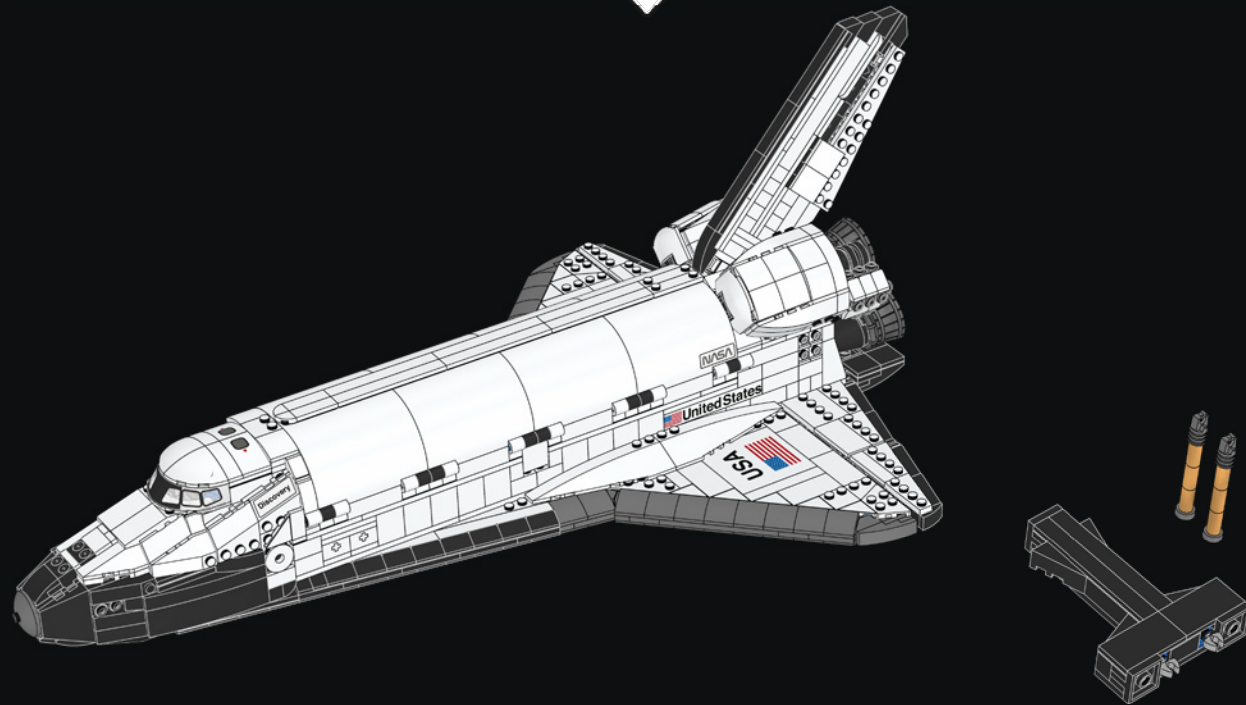


NASA **esa**
Hubble Space Telescope
Launched: April 24, 1990
Launch Weight: 12,400 lbs
Orbiting Altitude: 340 miles



NASA
Space Shuttle Discovery STS-31
Launched: February 24, 1984
Launch Weight: 24,000 lbs
Orbiting Altitude: 207 miles





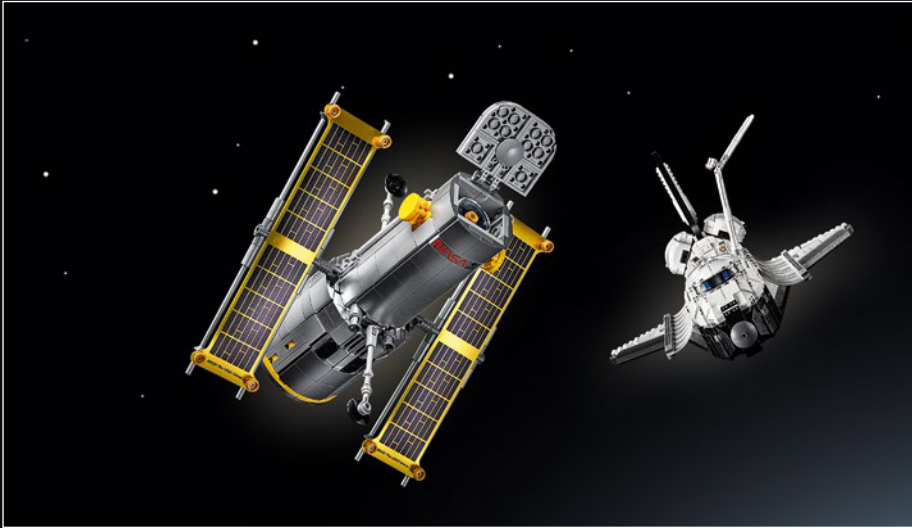
HUBBLE SPACE TELESCOPE

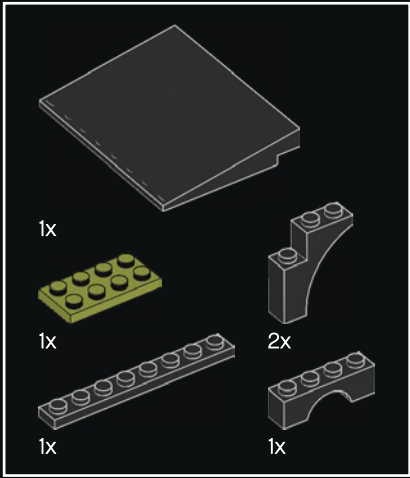
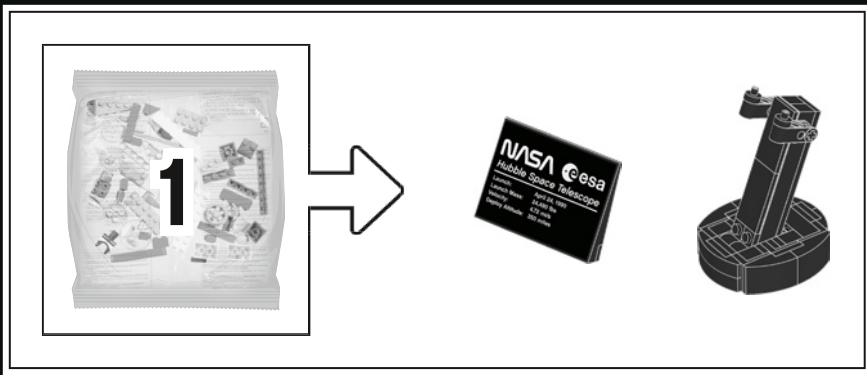
The Hubble Space Telescope was created in a collaboration between NASA and its European partner – the European Space Agency (ESA). From its vantage point approximately 550 km (342 miles) above the Earth, the 13.2 m (43.5 ft.) long and 4.2 m (14 ft.) wide telescope can detect light with 'eyes' currently over 20 times sharper than the best ground-based telescopes.



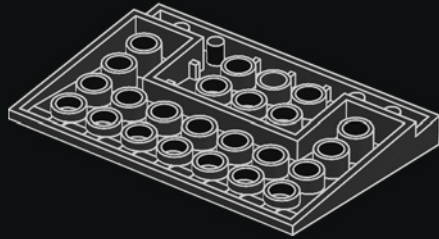
THE FIRST MAJOR OBSERVATORY IN SPACE

Hubble's mission was to spend at least 15 years probing the farthest and faintest reaches of the cosmos. Thanks to five Space Shuttle servicing missions that took place between 1993 and 2009, it has far exceeded this goal, operating and observing the universe for over 30 years. During its time in orbit, the telescope has taken more than 1.4 million observations, and astronomers have used that data to publish more than 17,000 scientific publications on a broad range of topics.

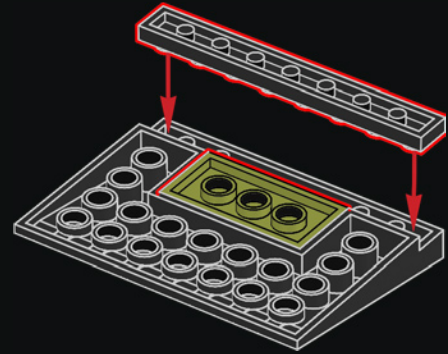




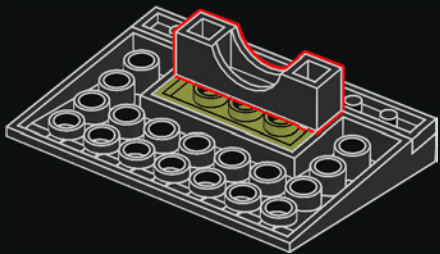
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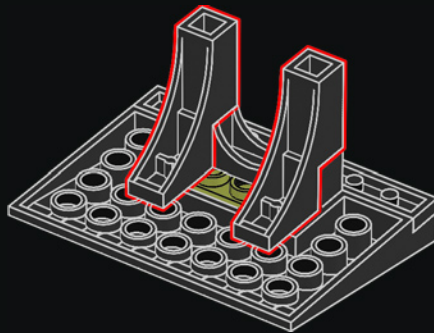
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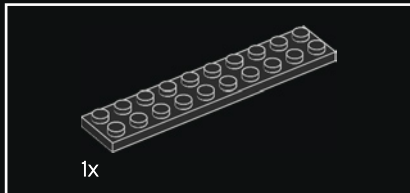
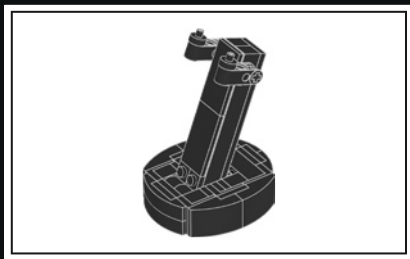


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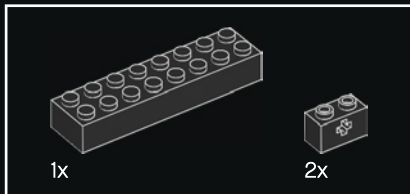
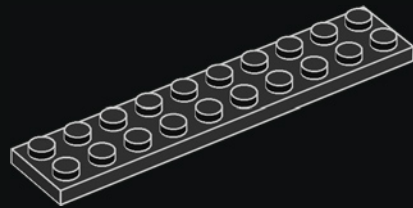


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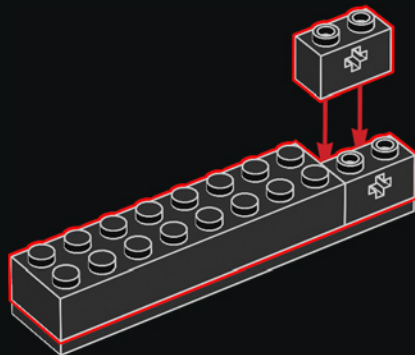




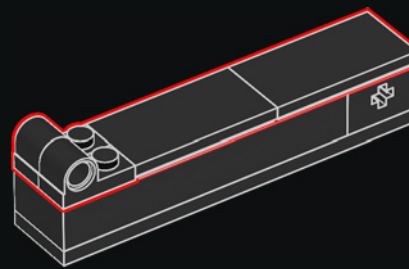
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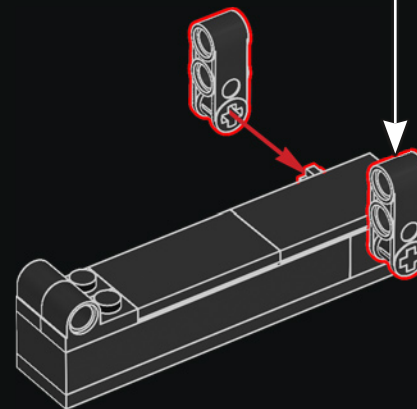
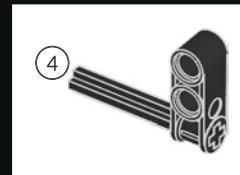
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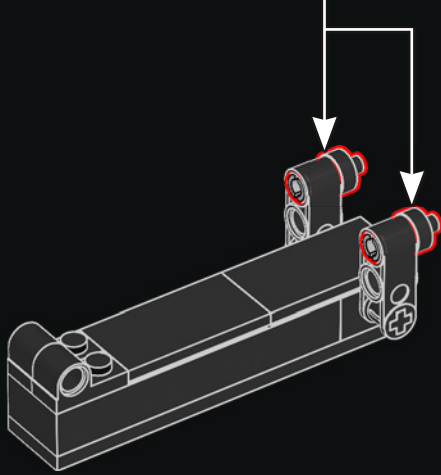
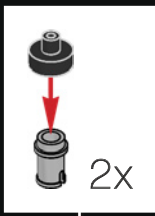


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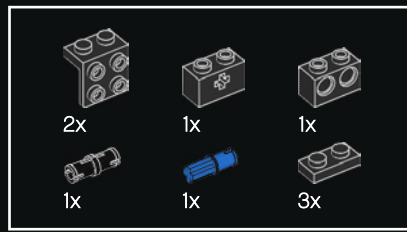
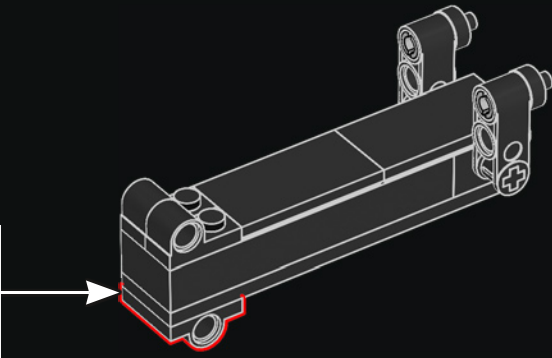




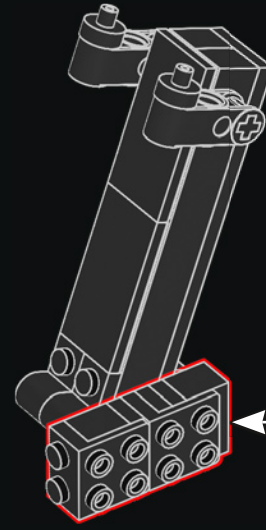
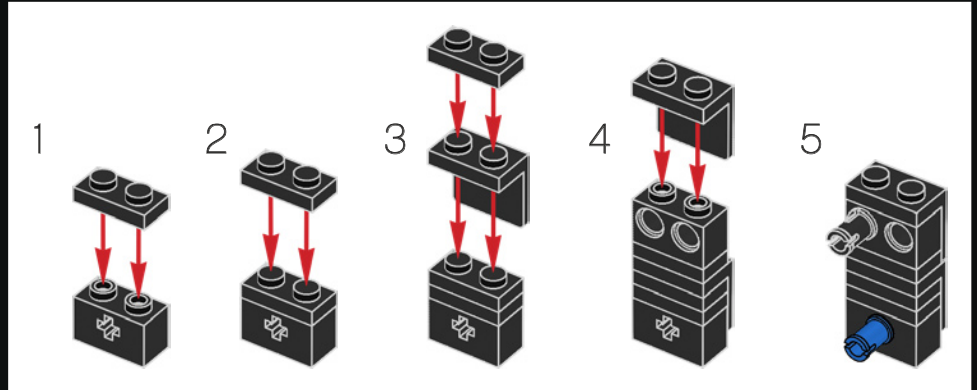
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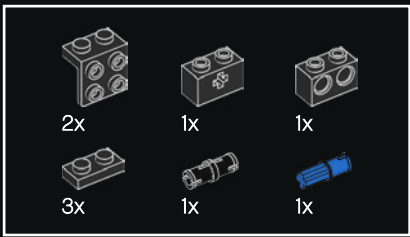


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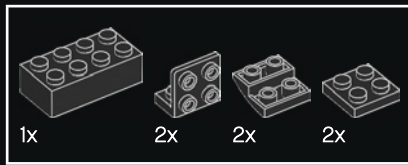
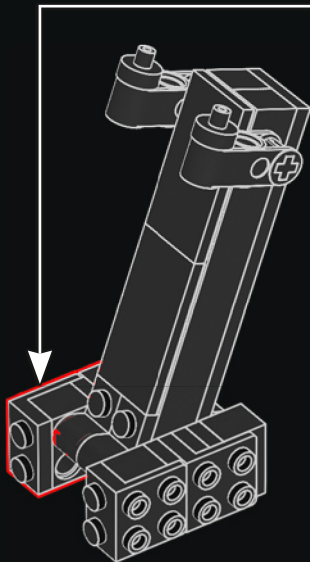
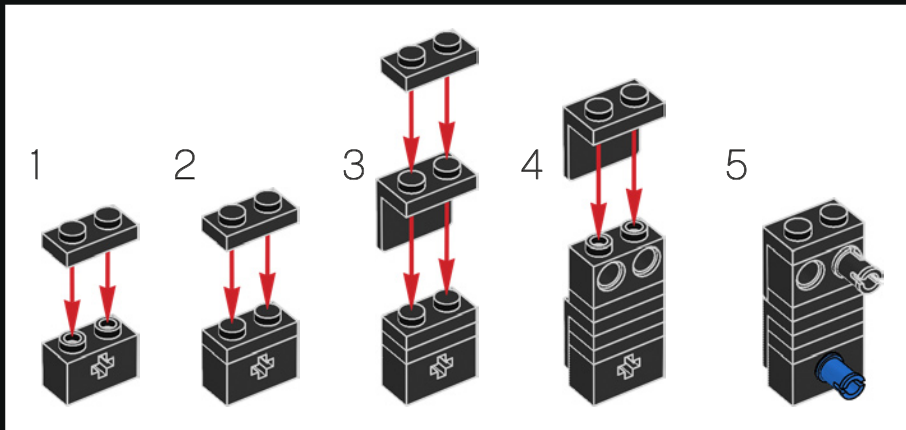


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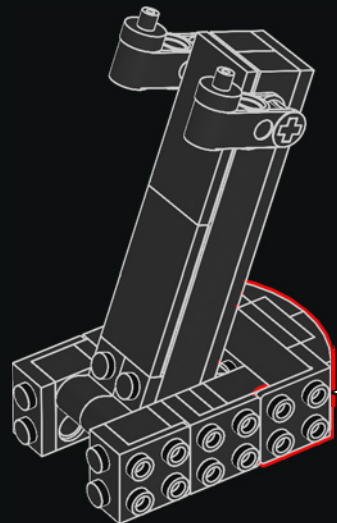
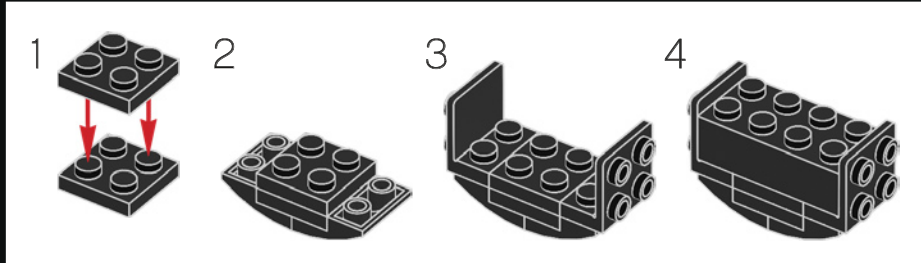




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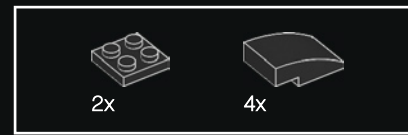
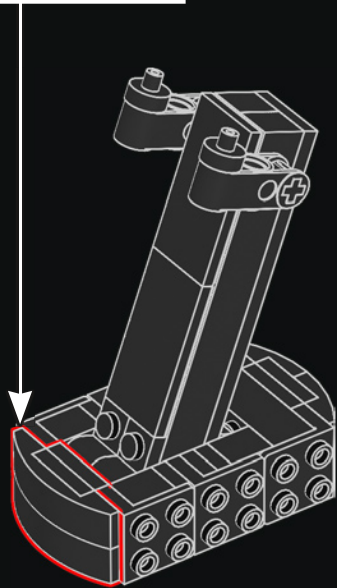
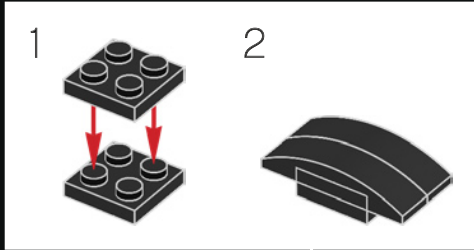


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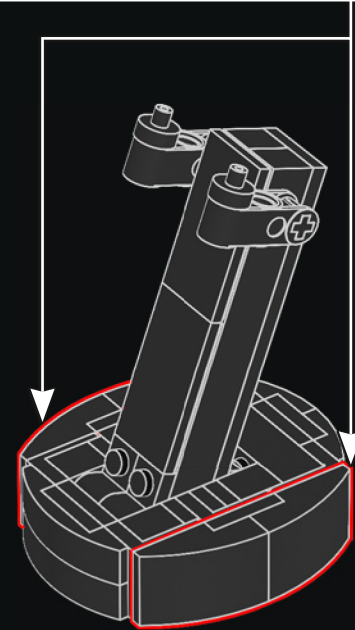
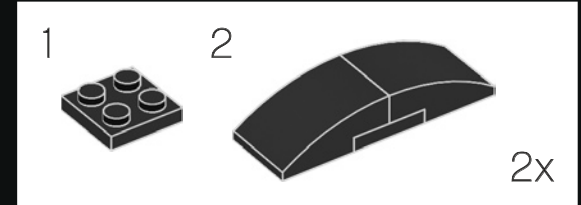




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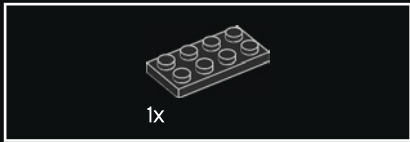
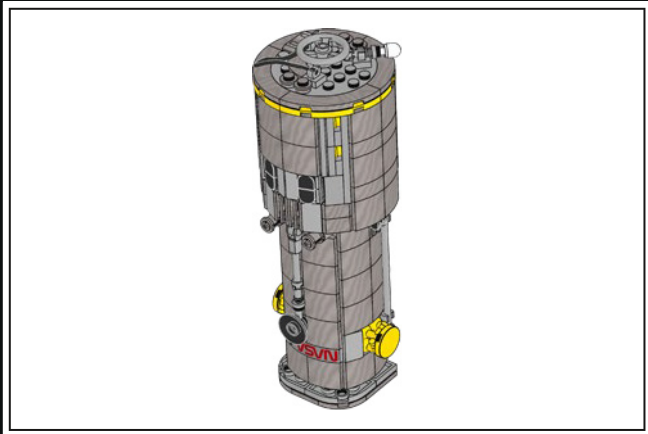
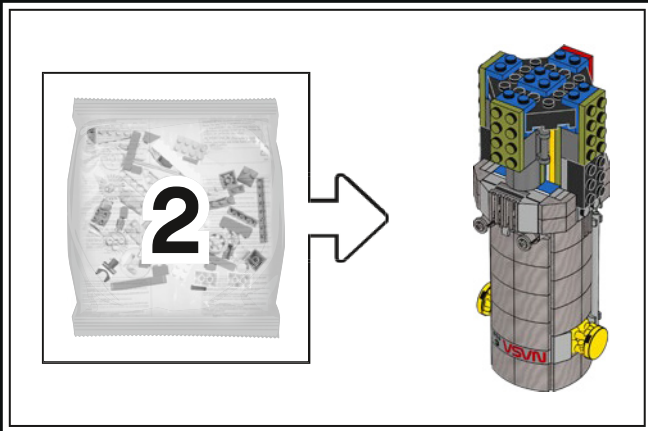


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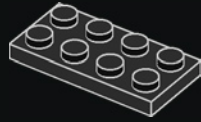


DID YOU KNOW?

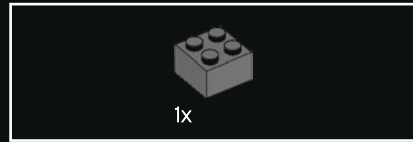
First conceived in the 1940s, the Hubble Space Telescope took decades of planning before its launch in 1990.



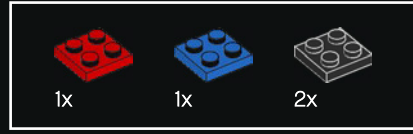
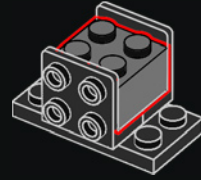
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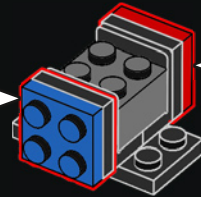
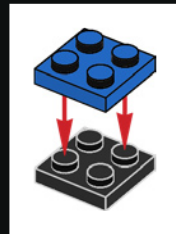
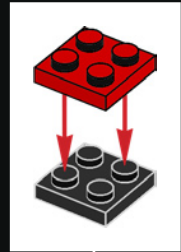
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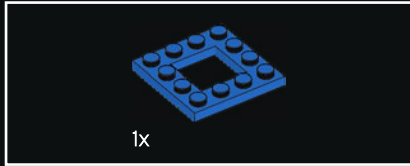
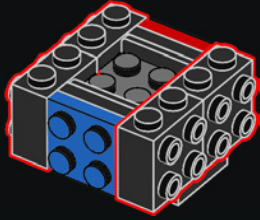


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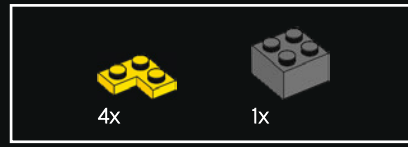
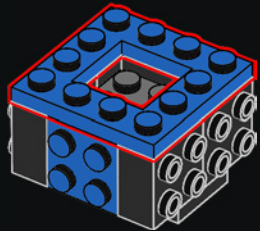




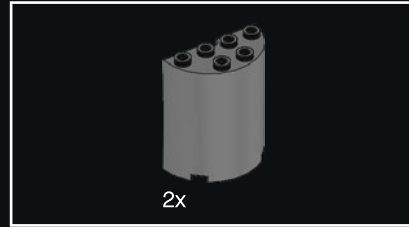
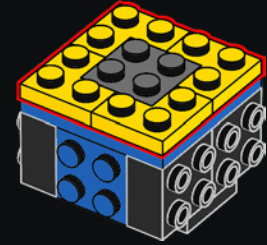
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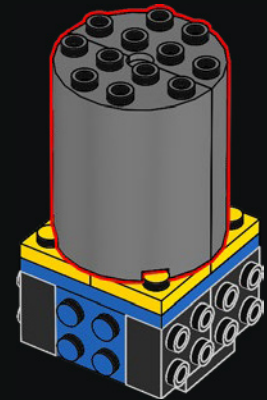
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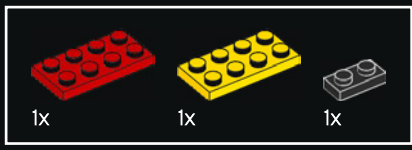


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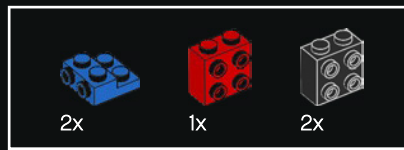
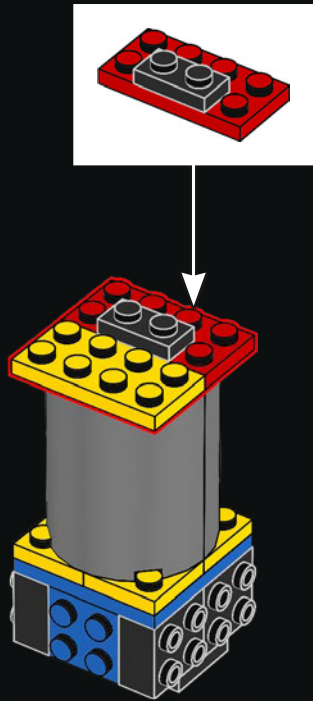


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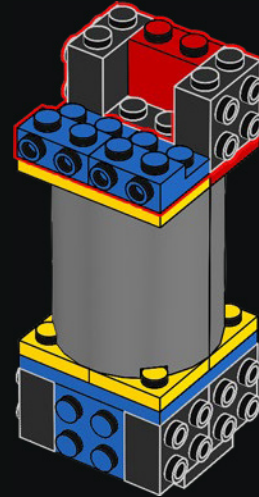




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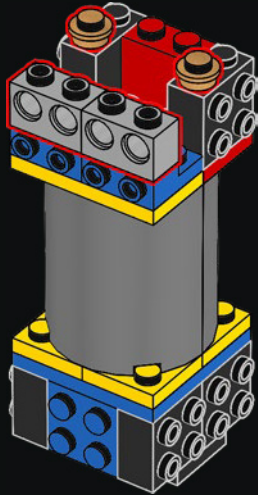


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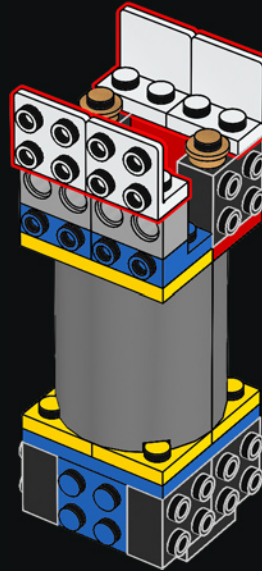


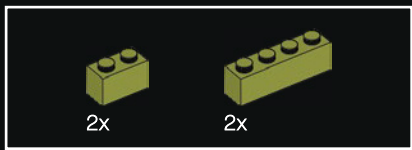


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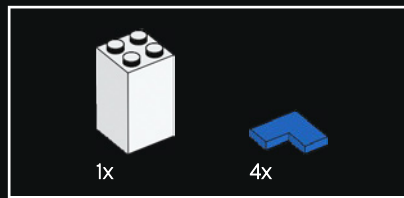
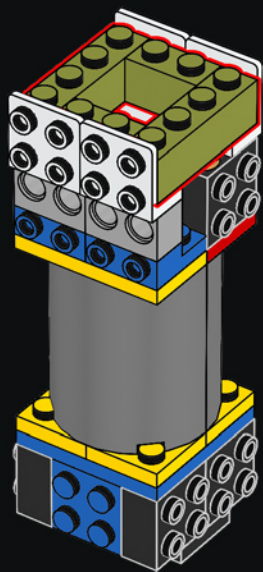


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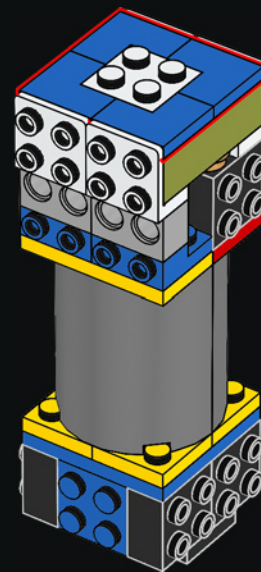


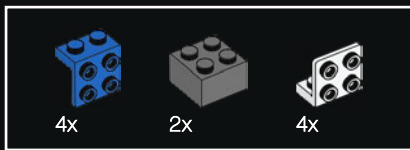


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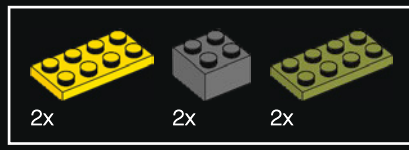
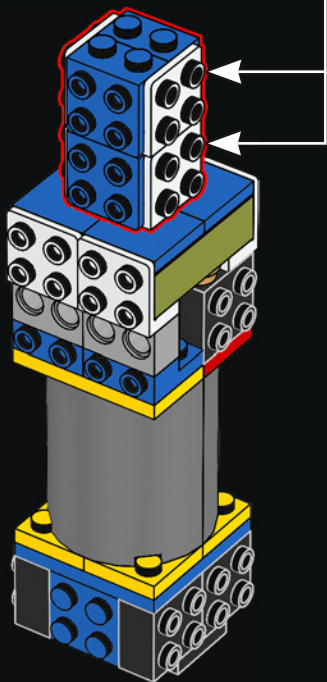
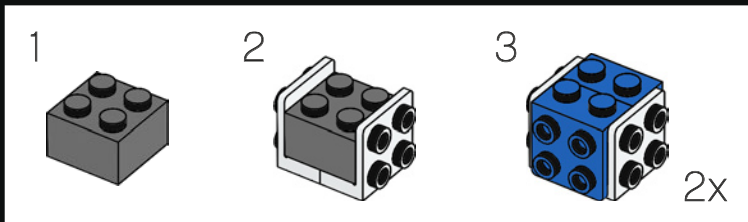


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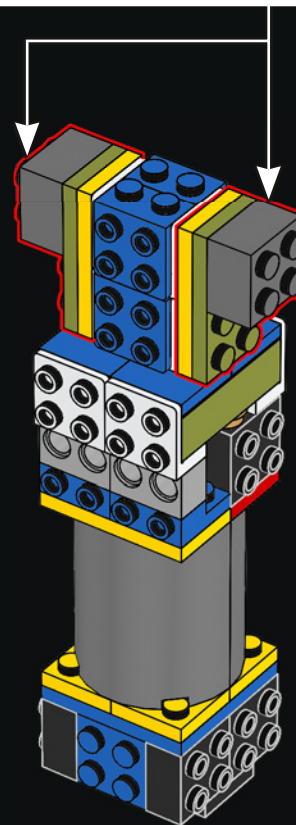
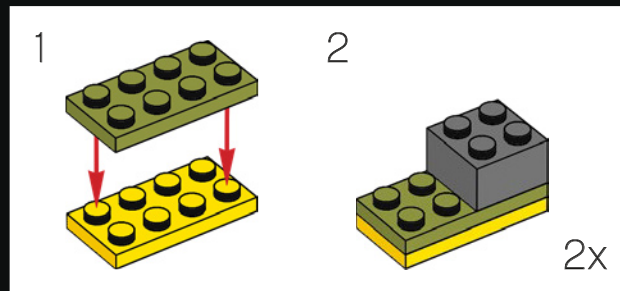


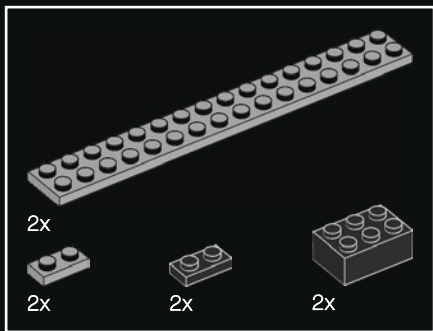


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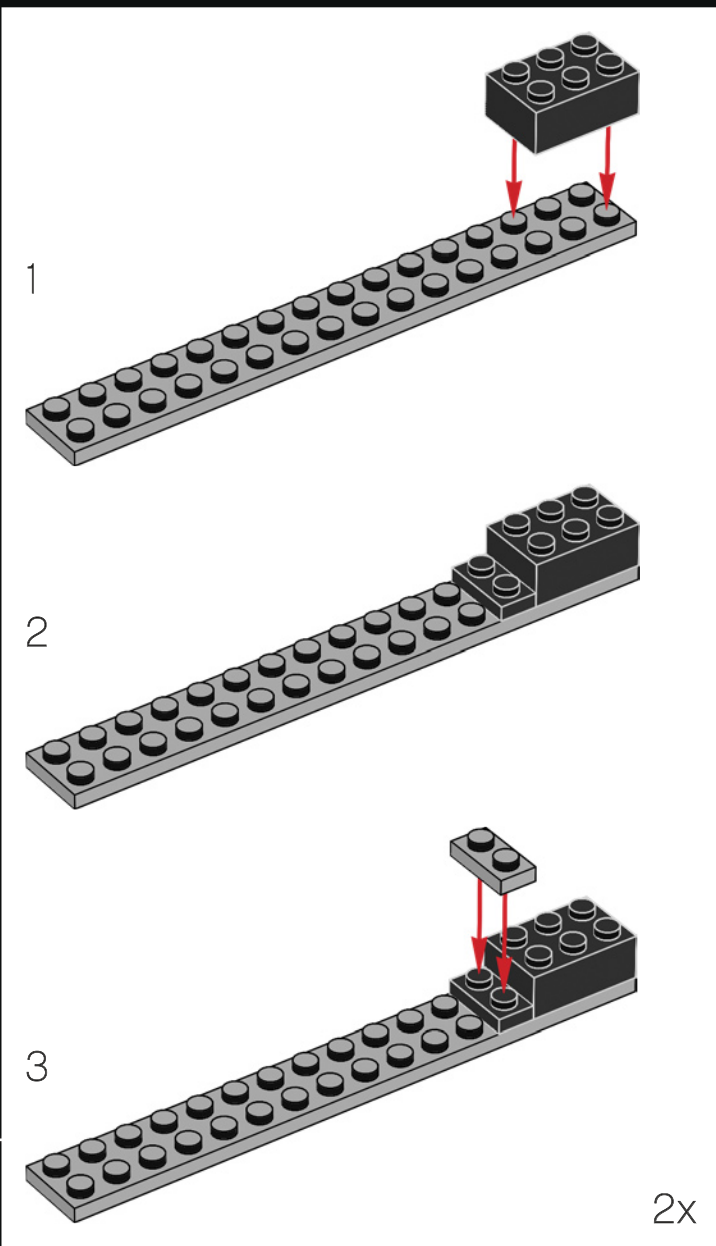
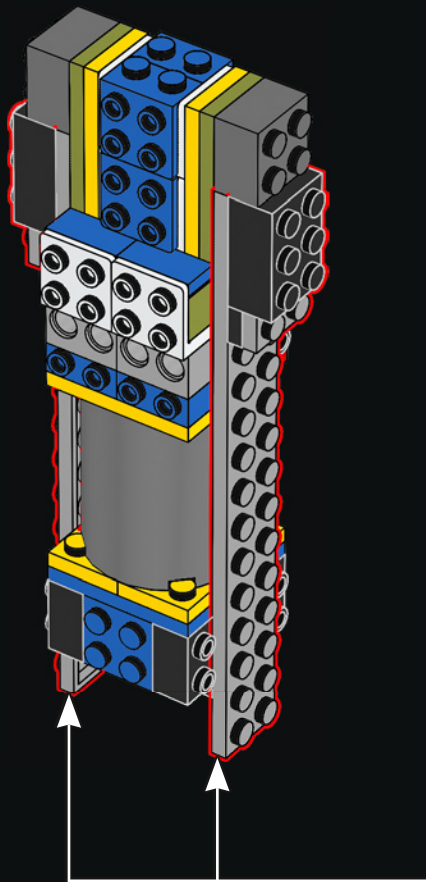


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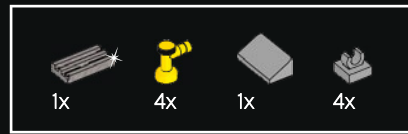
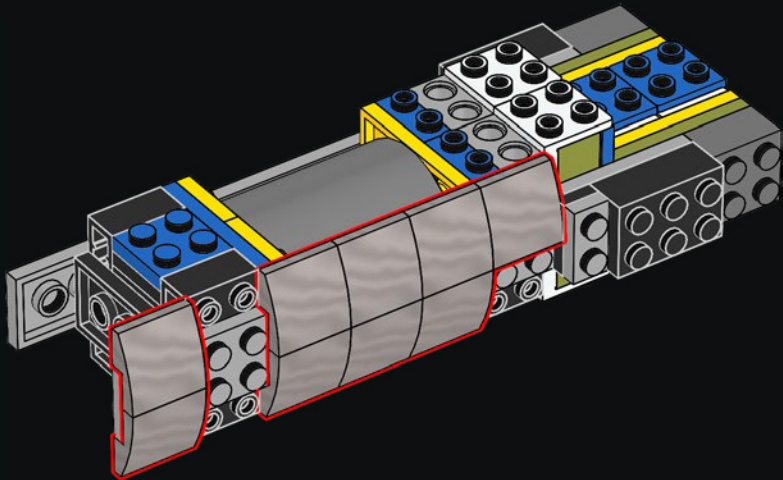


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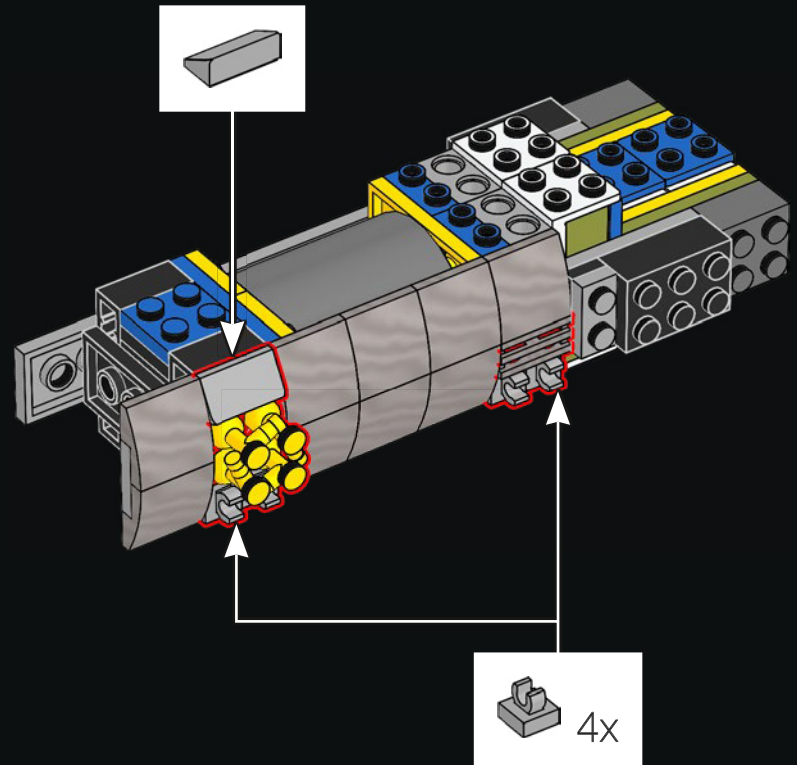




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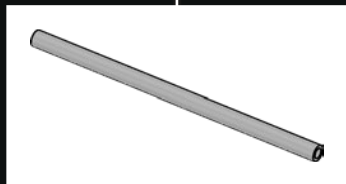
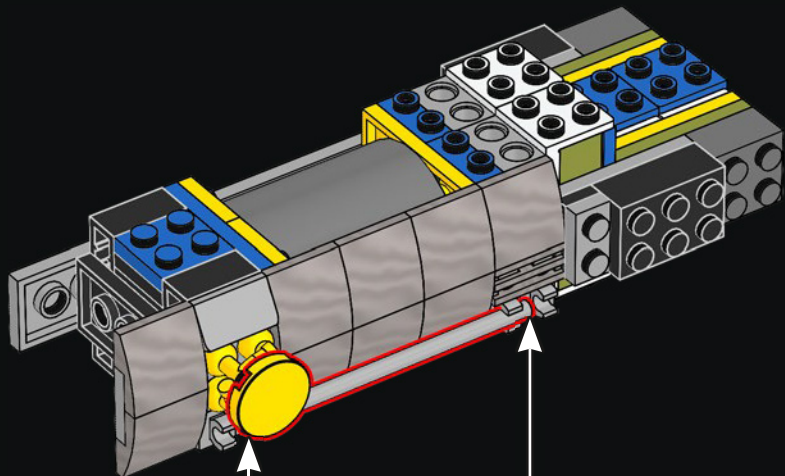


19

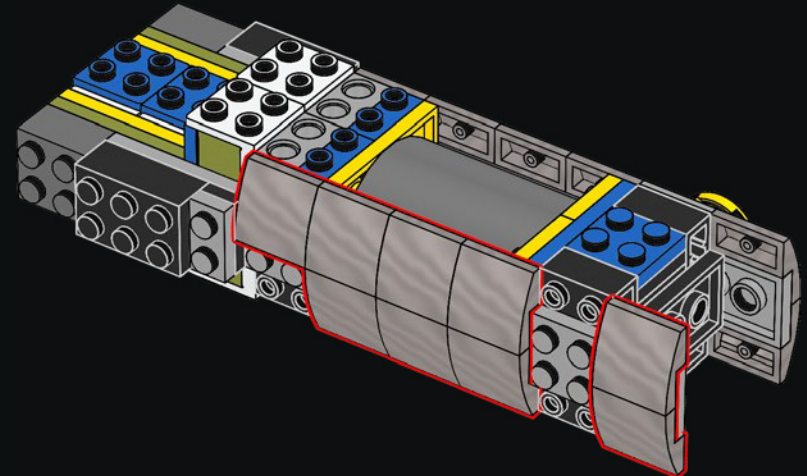


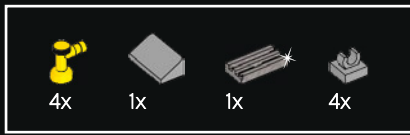


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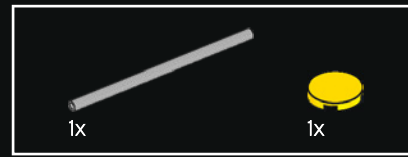
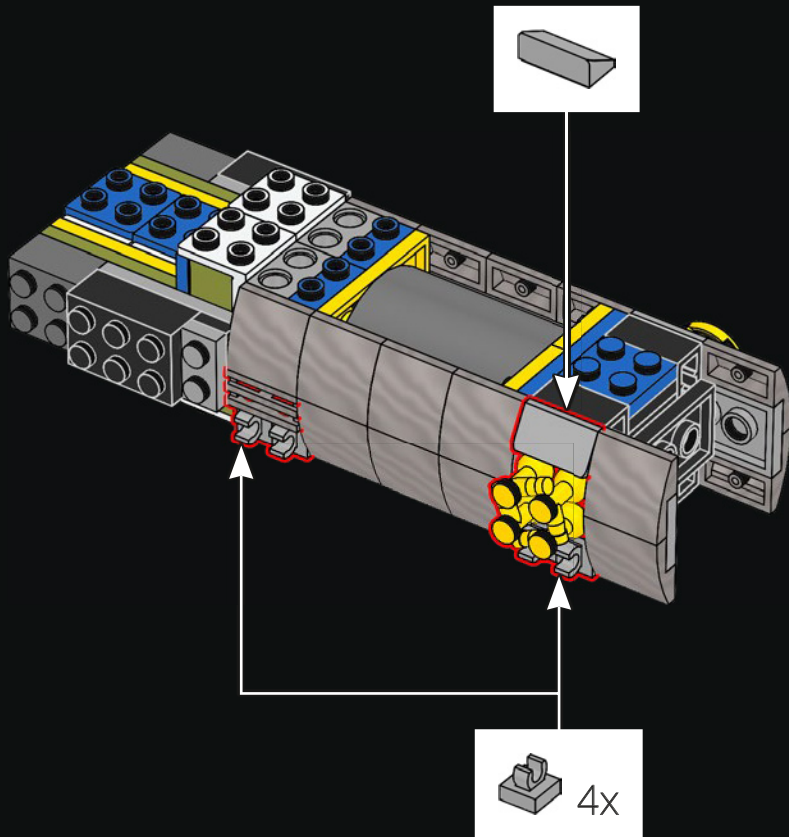


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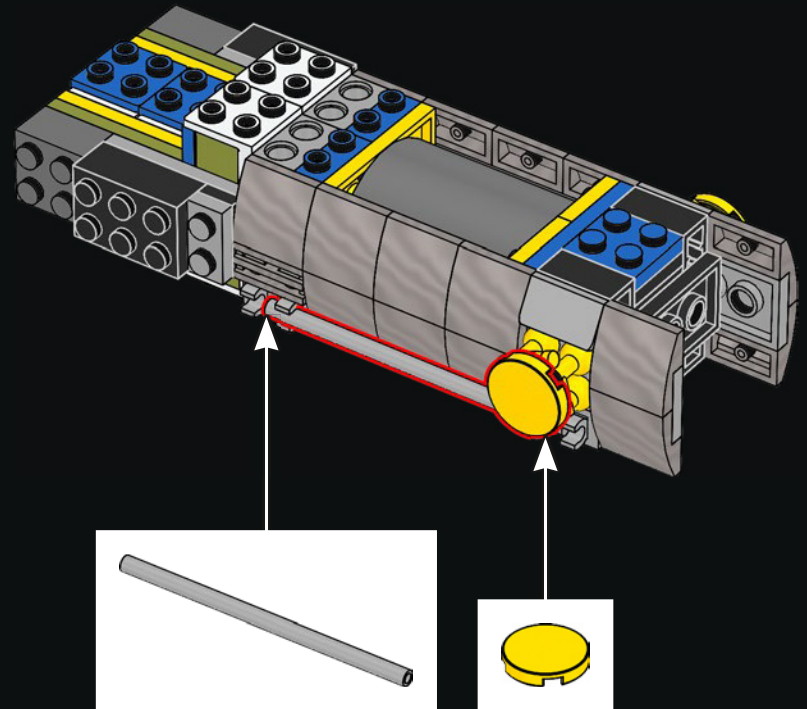


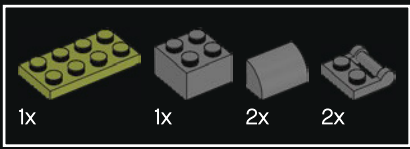


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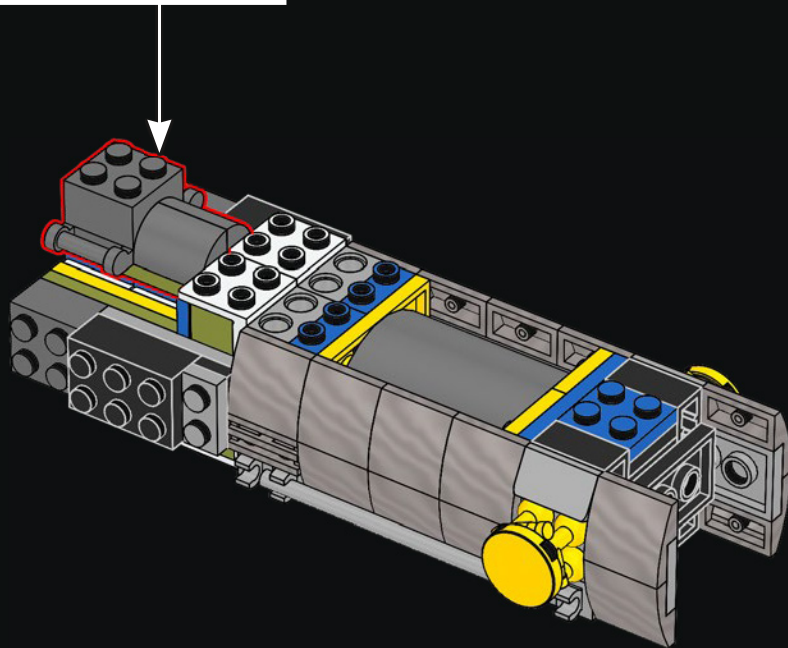
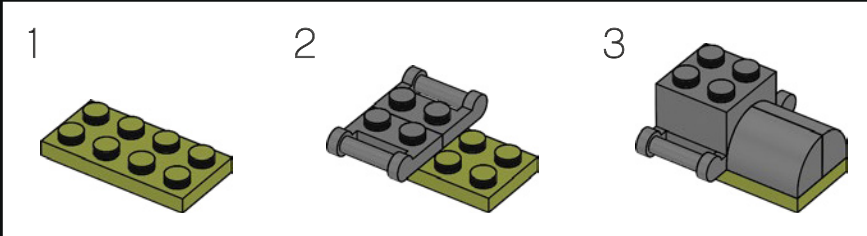


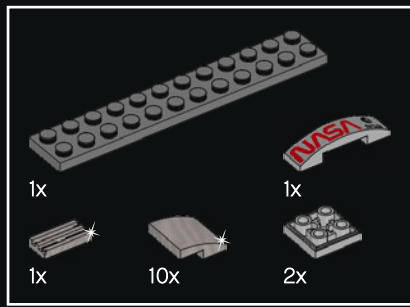
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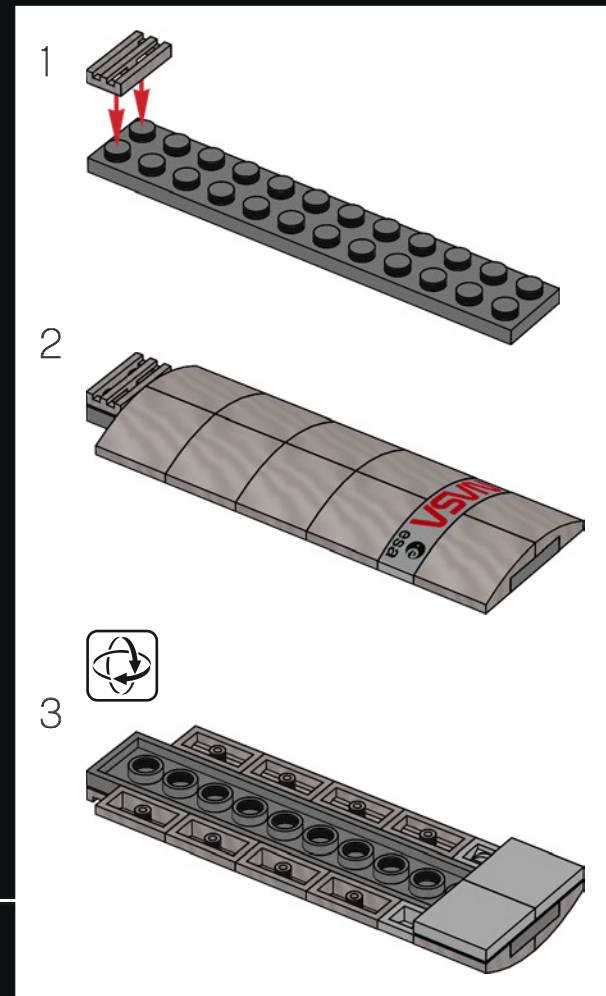
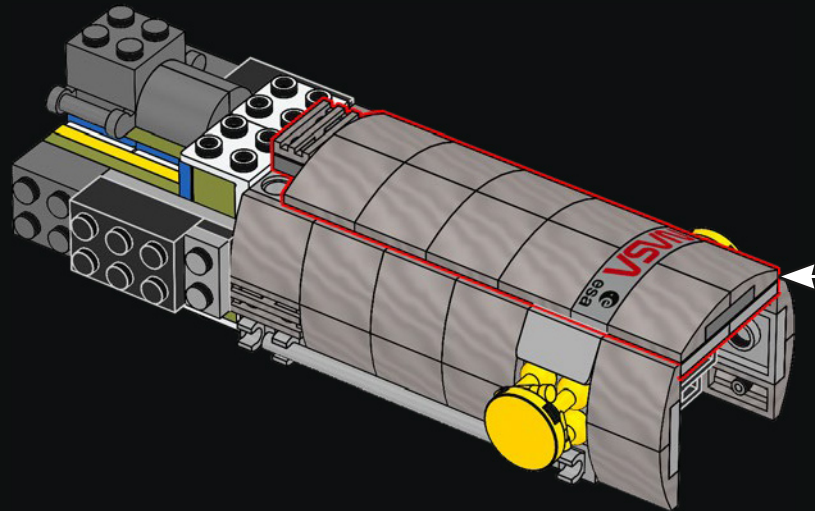


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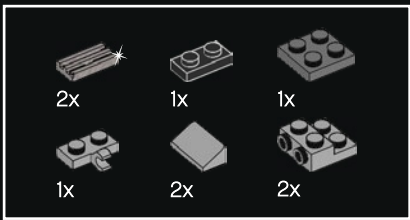


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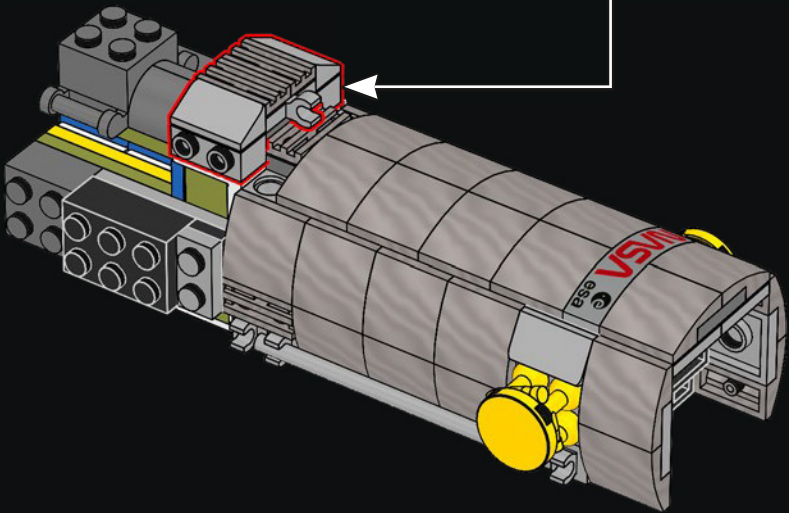
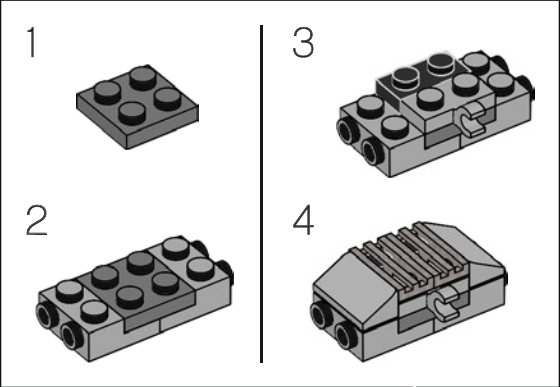


DID YOU KNOW?

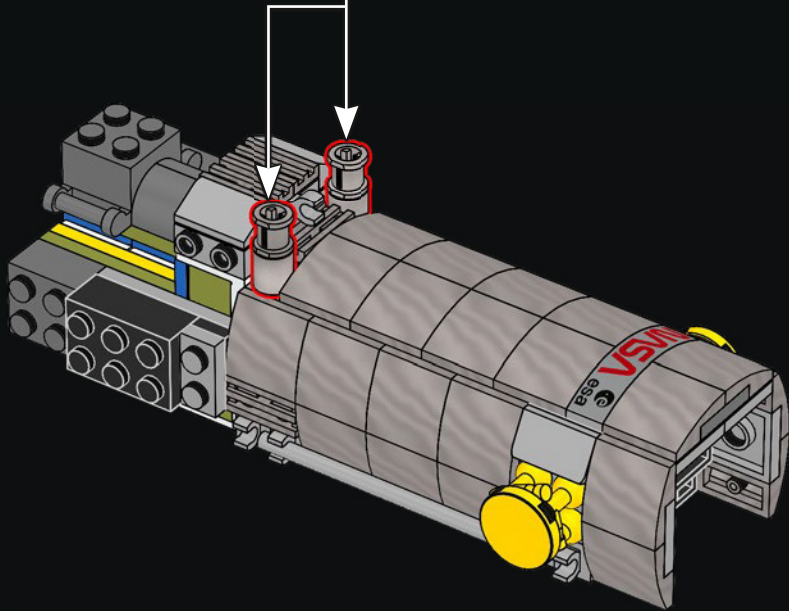
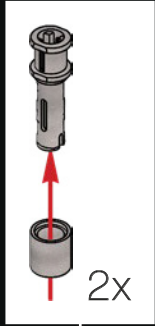
The space telescope was named after American astronomer Edwin Hubble (1889-1953).

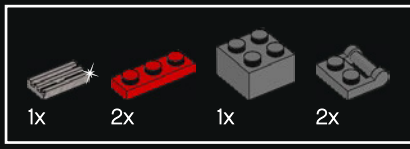


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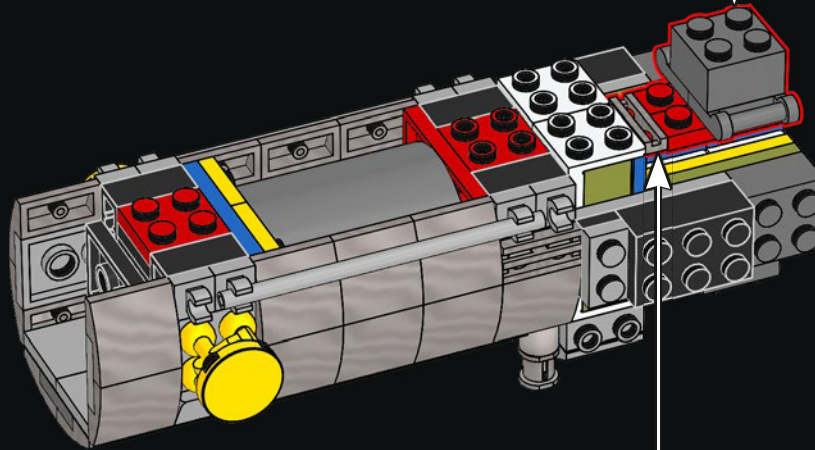
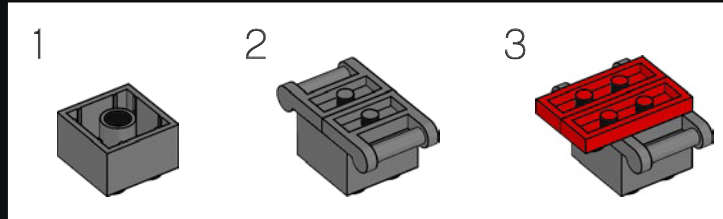


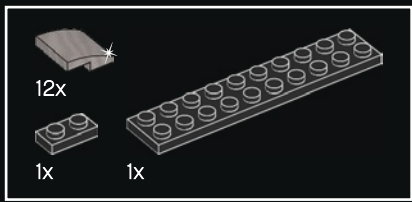
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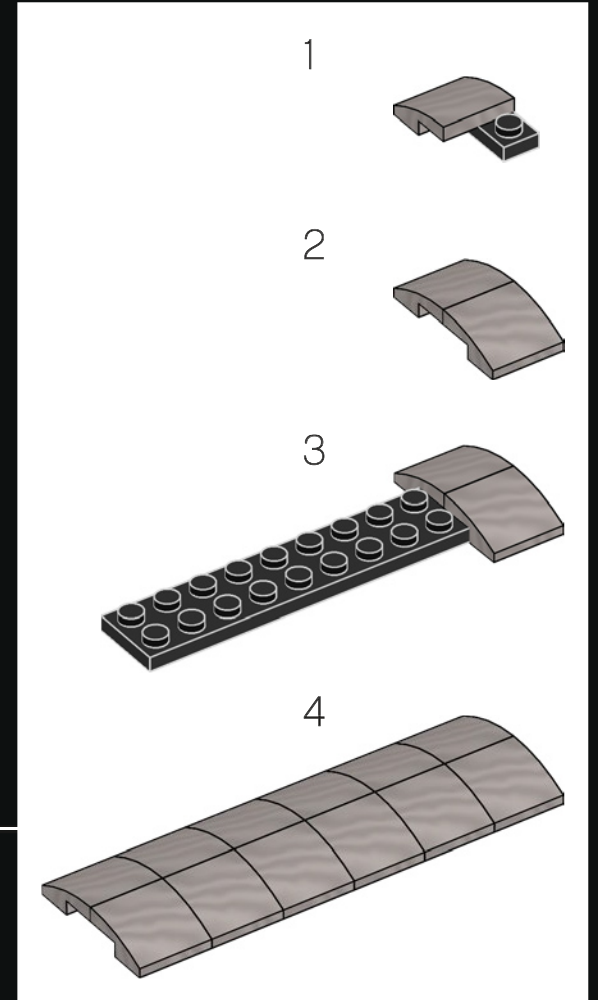
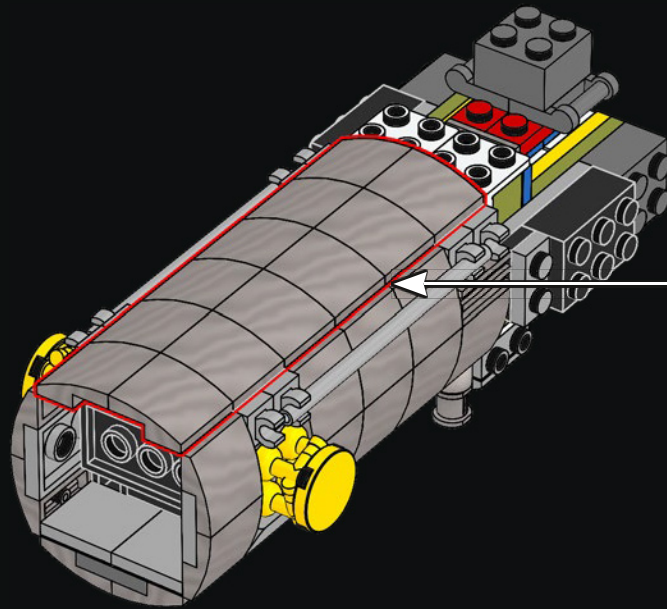


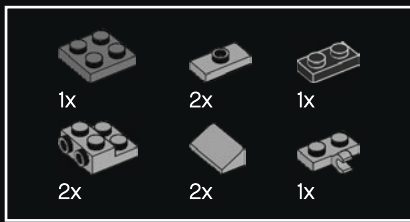
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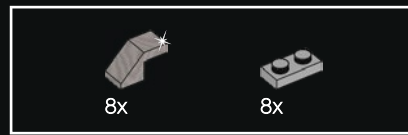
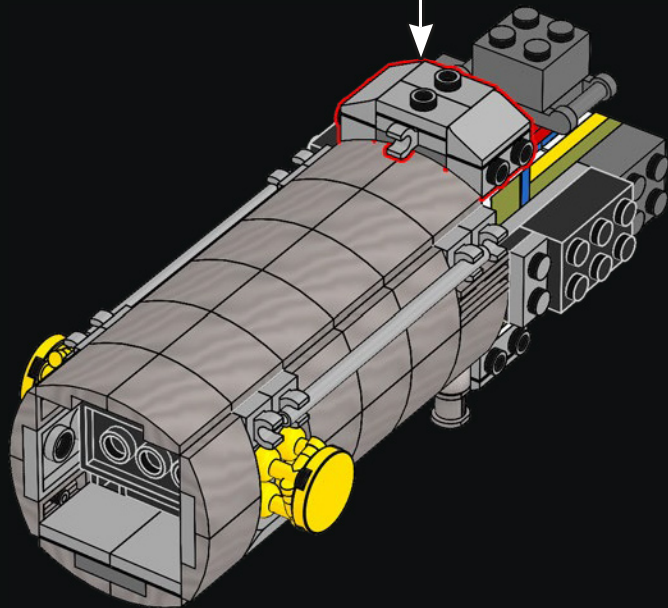
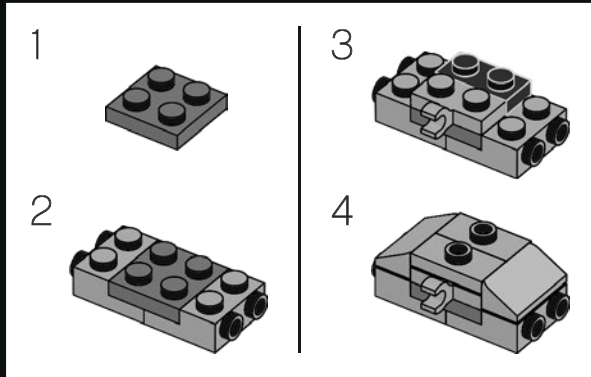


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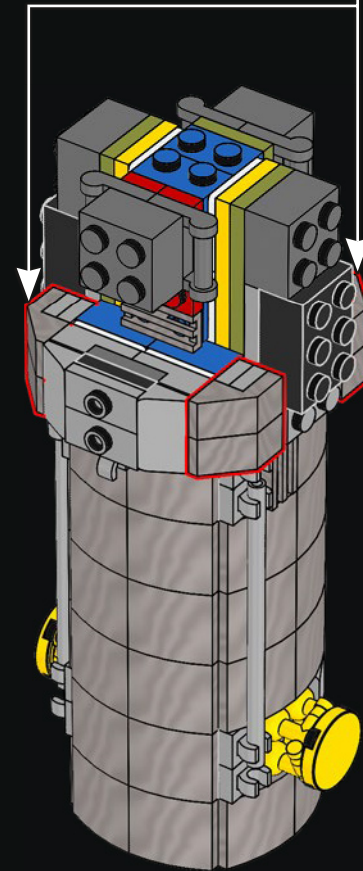
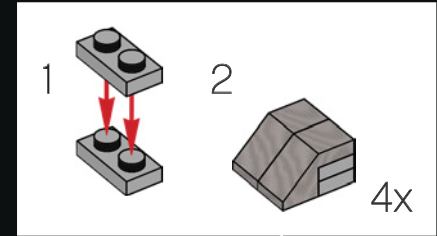


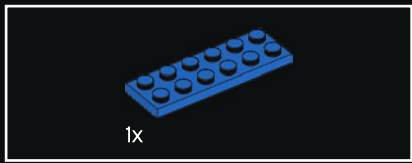


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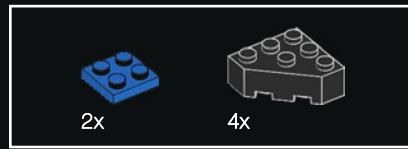
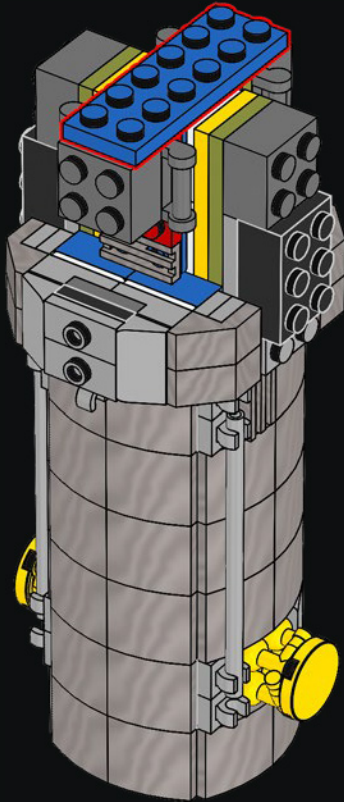


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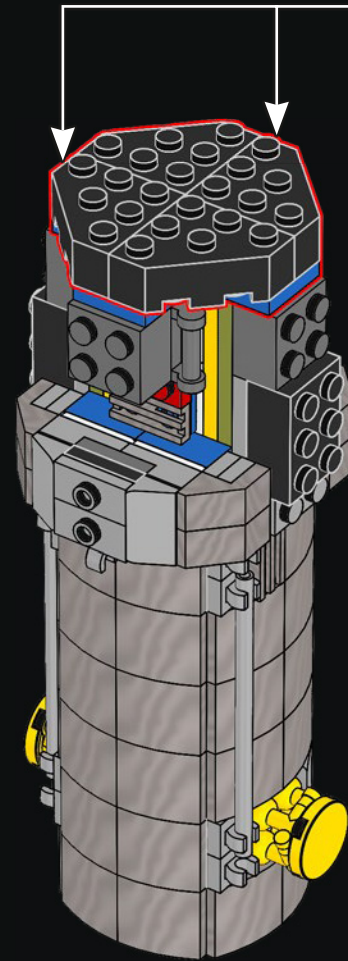
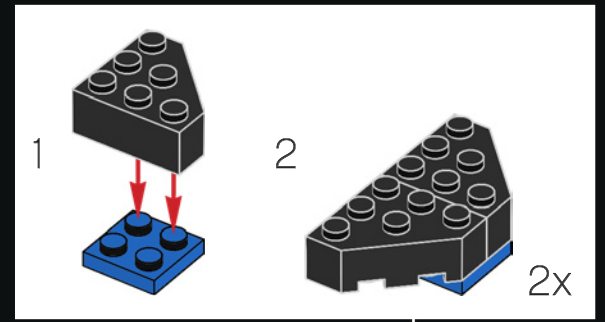


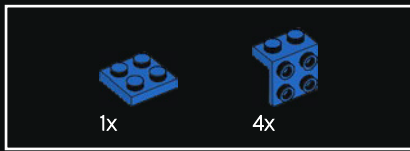


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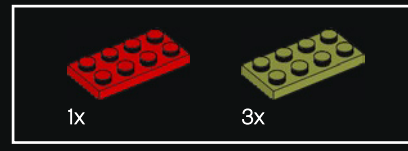
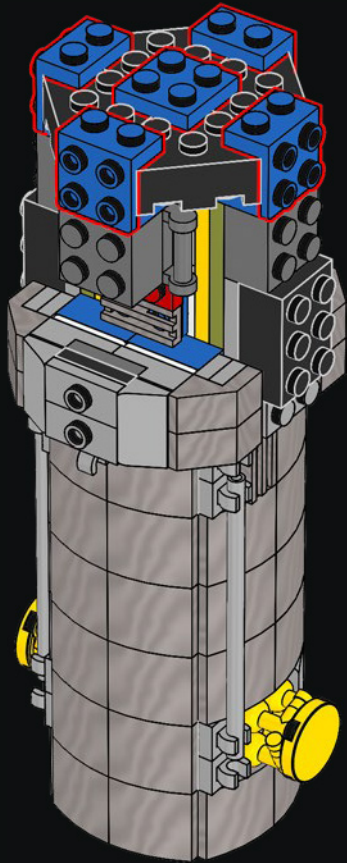


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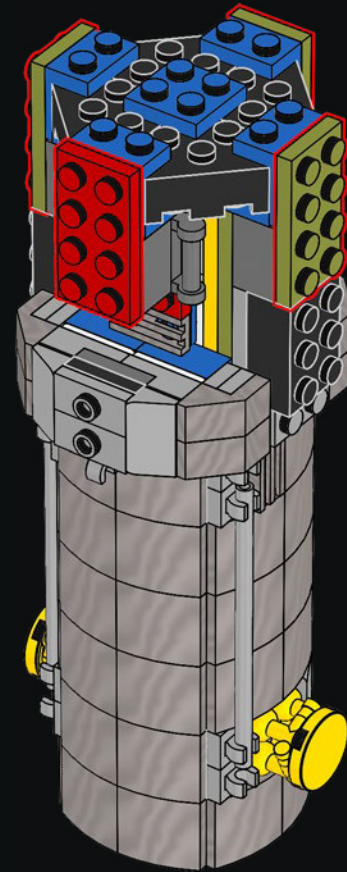




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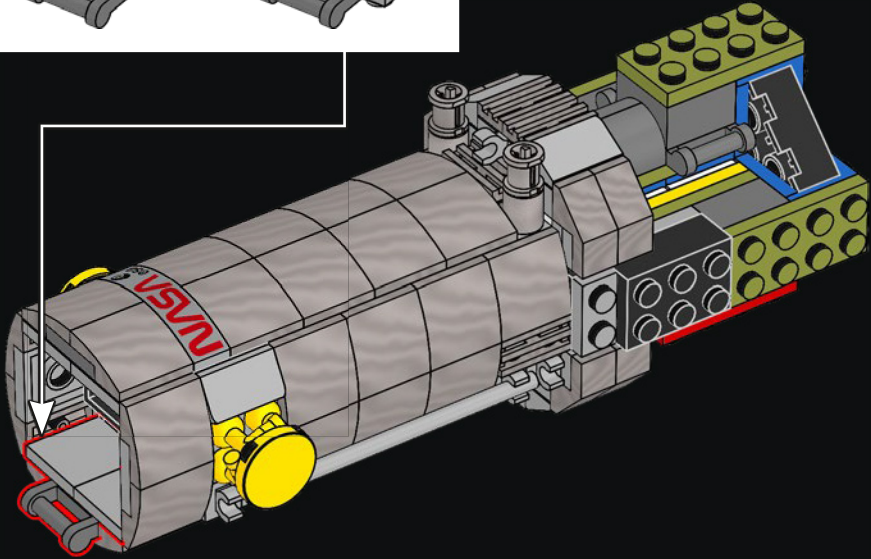
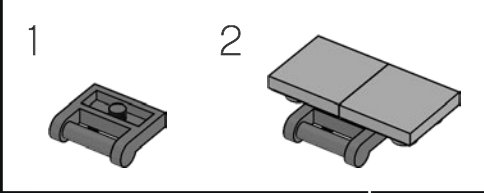


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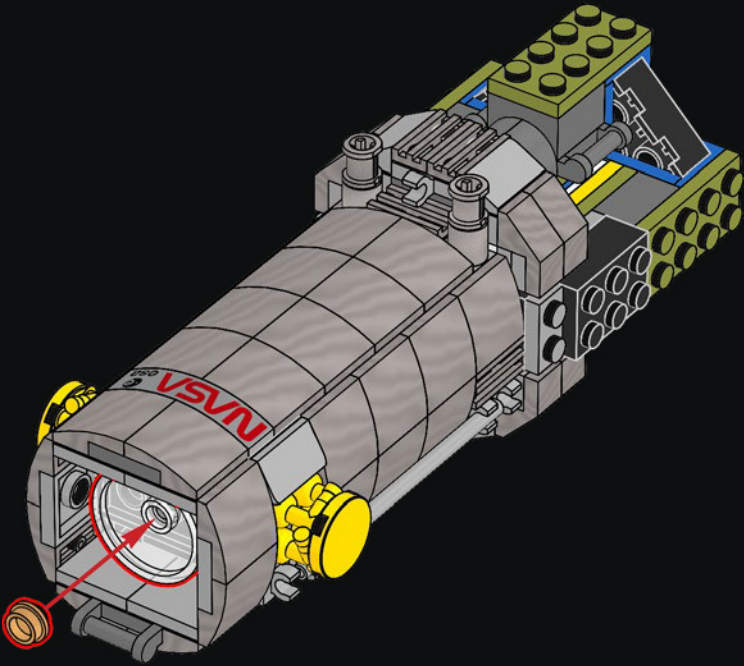


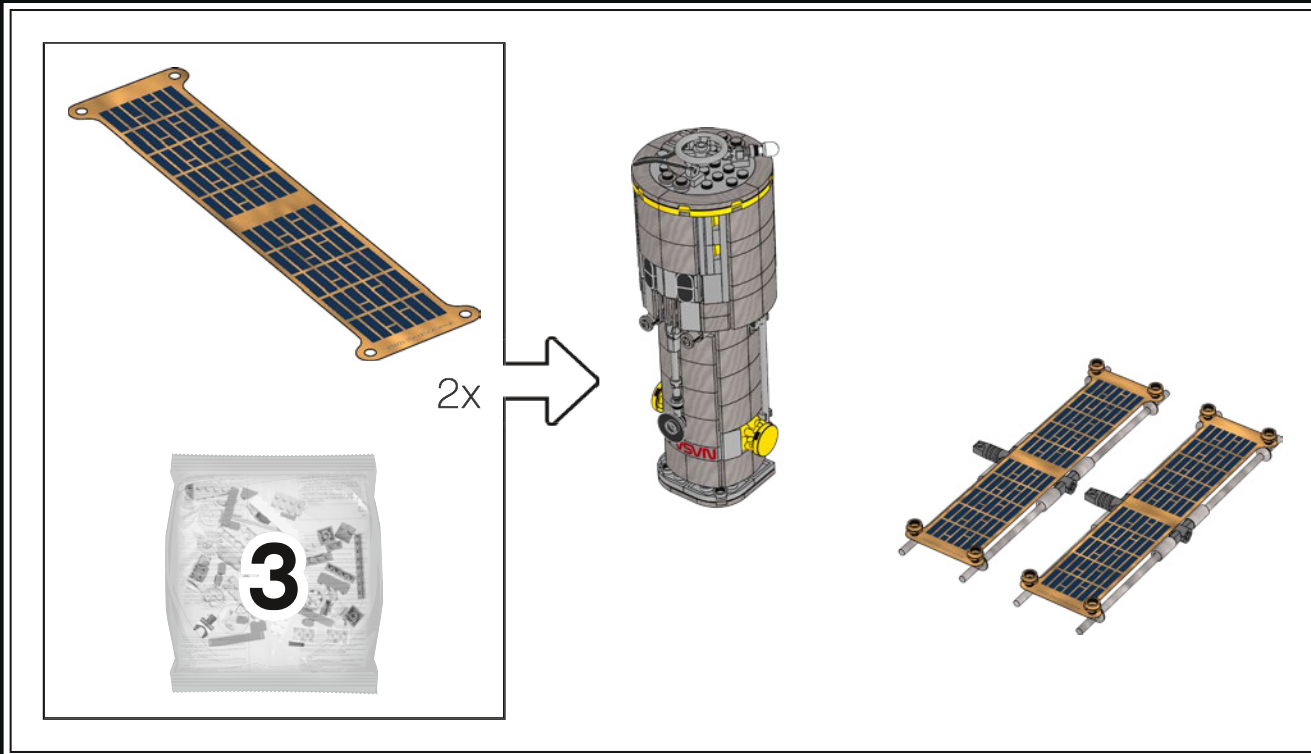


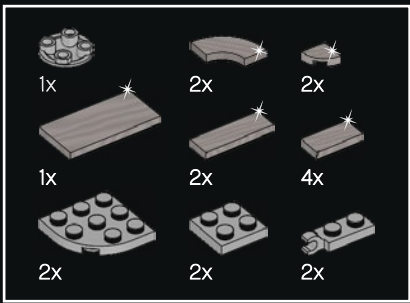
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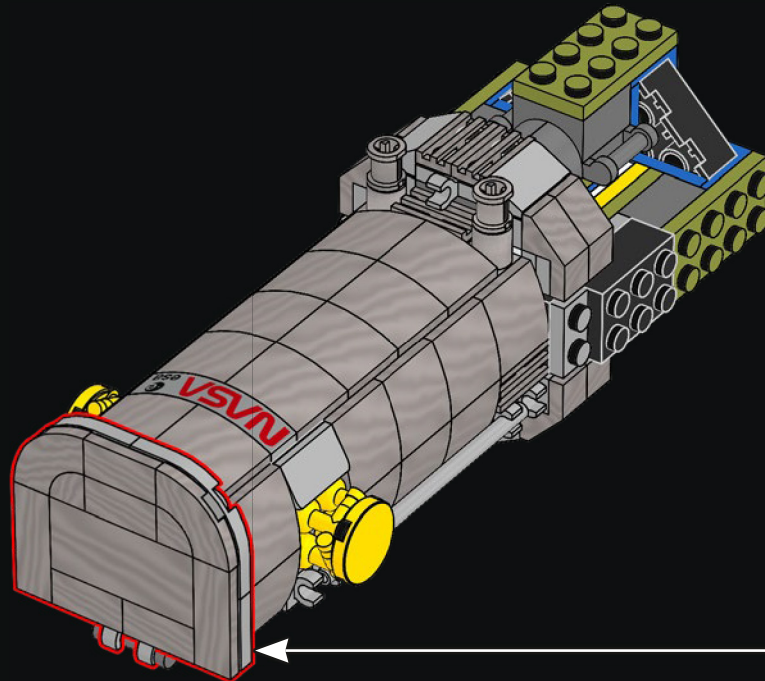
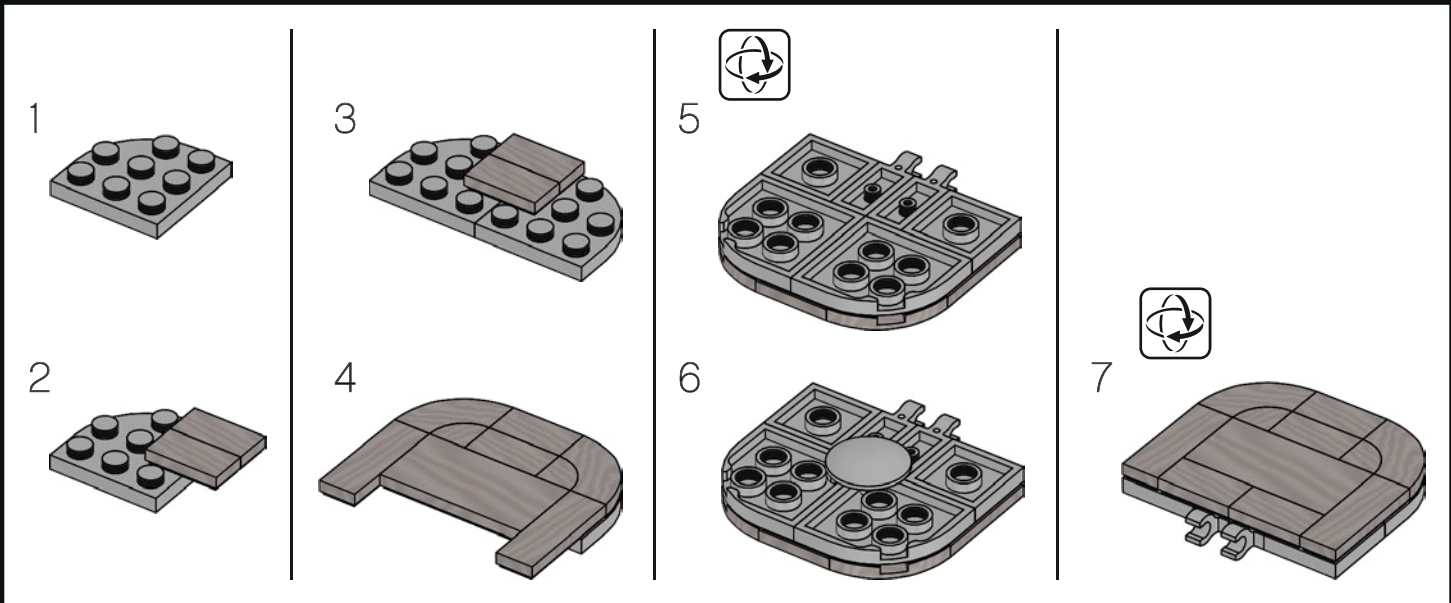
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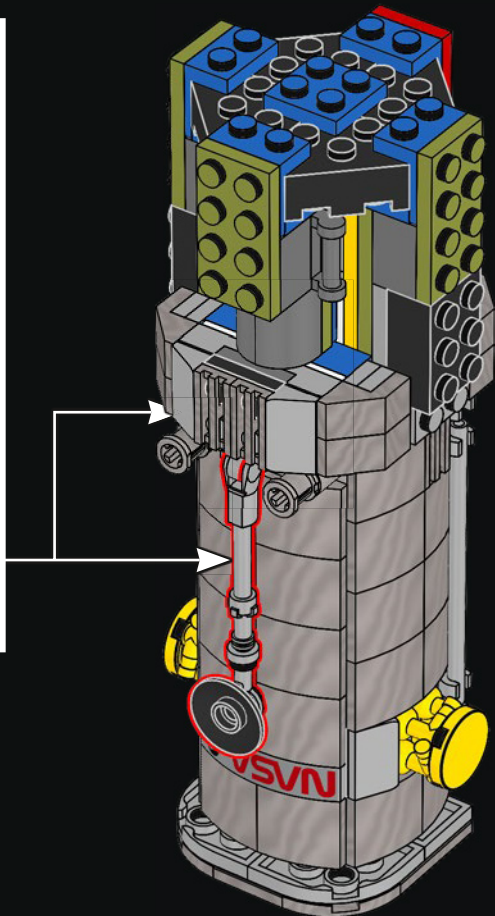
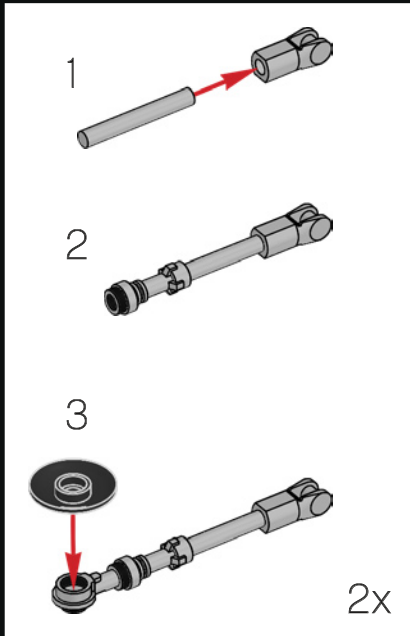


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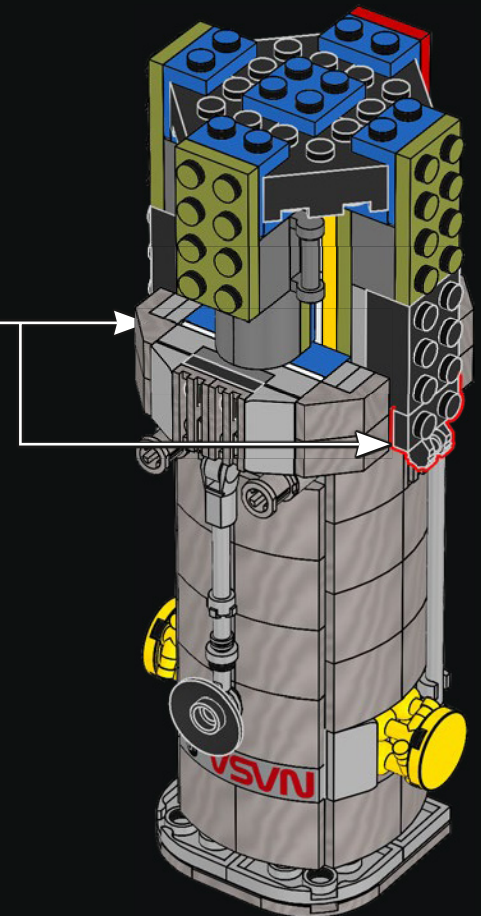


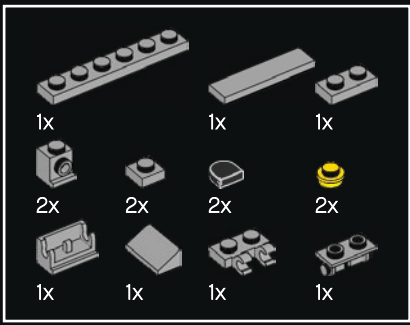


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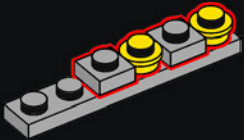


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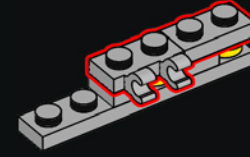
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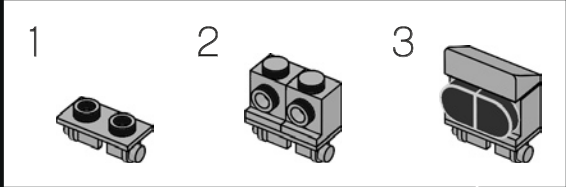
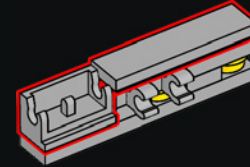
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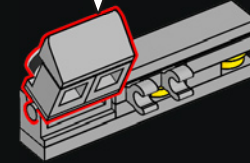
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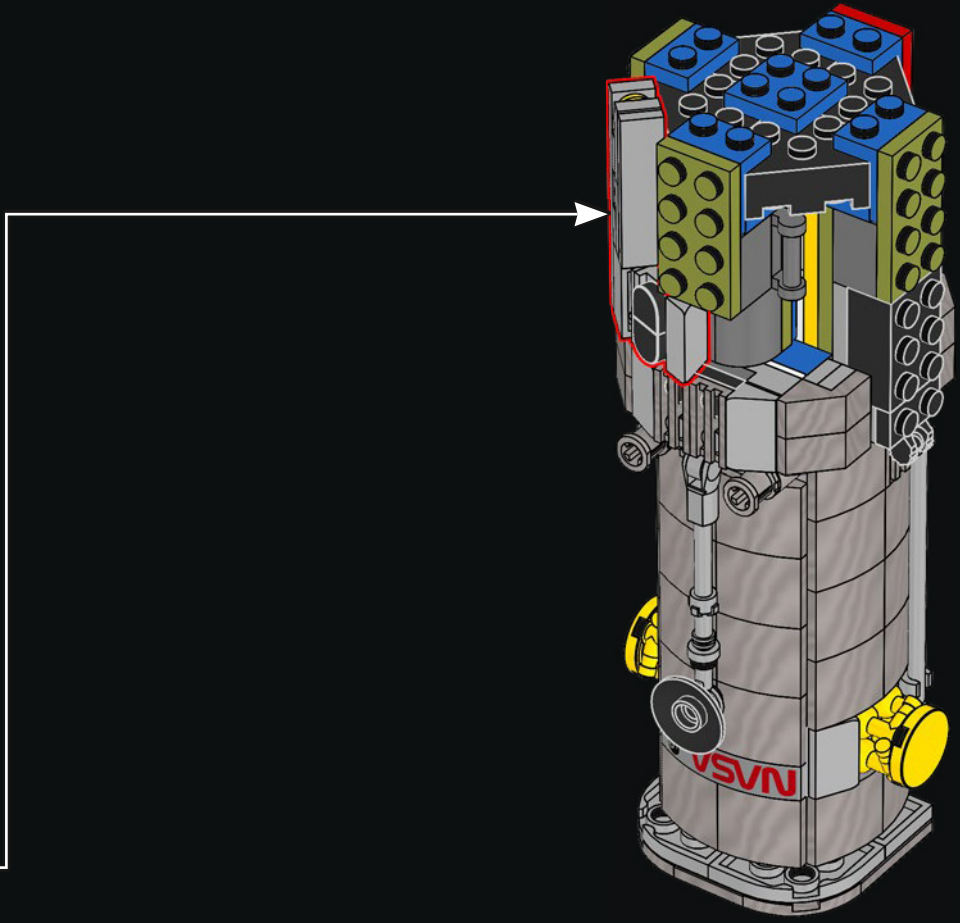


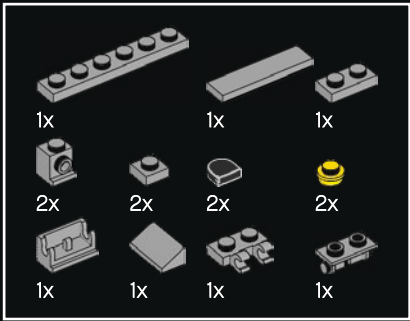
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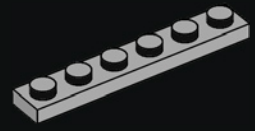




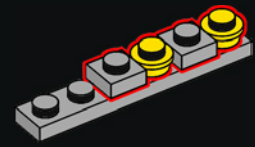


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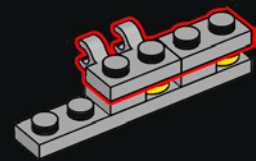
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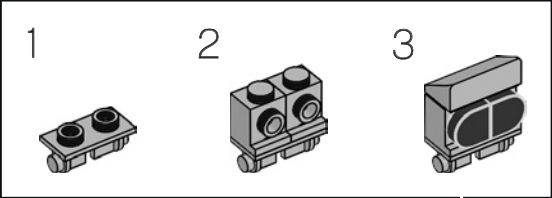
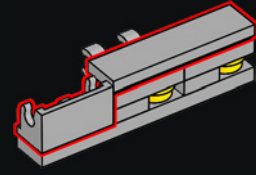
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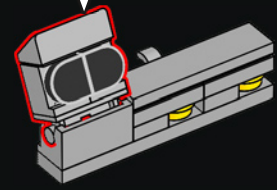
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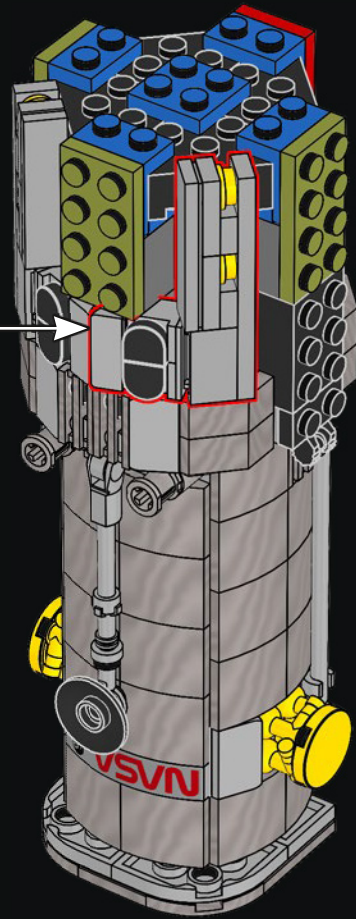


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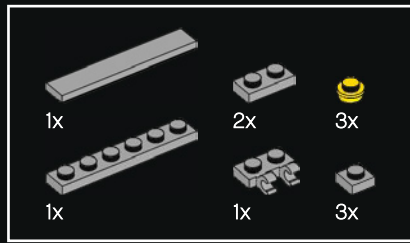
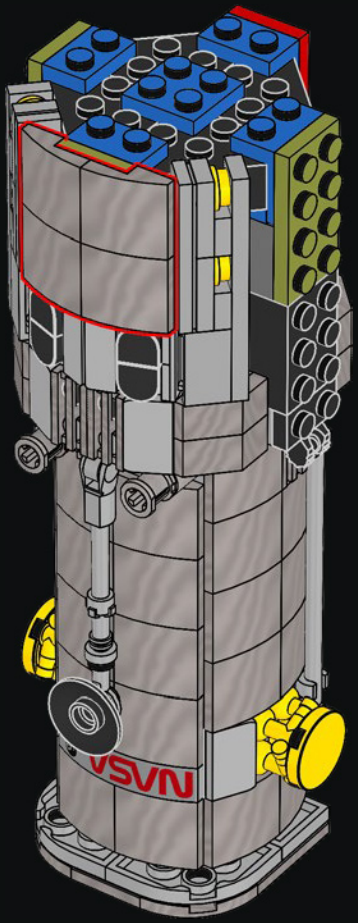
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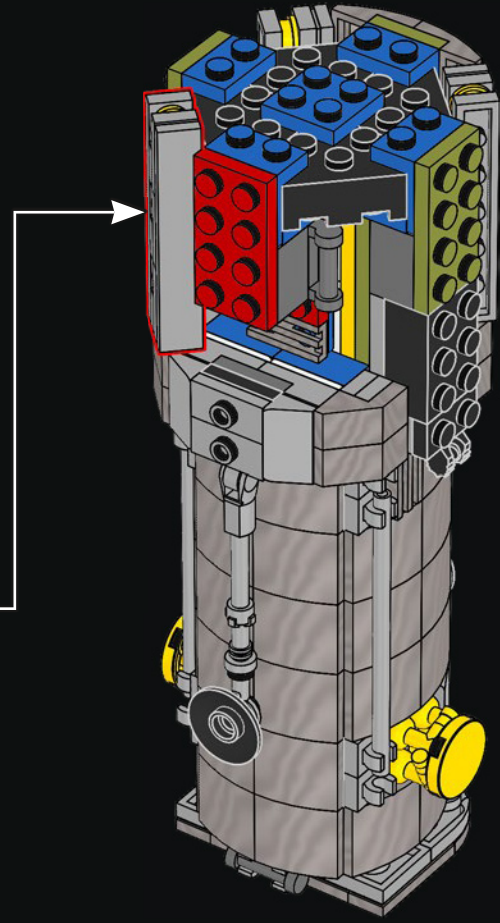
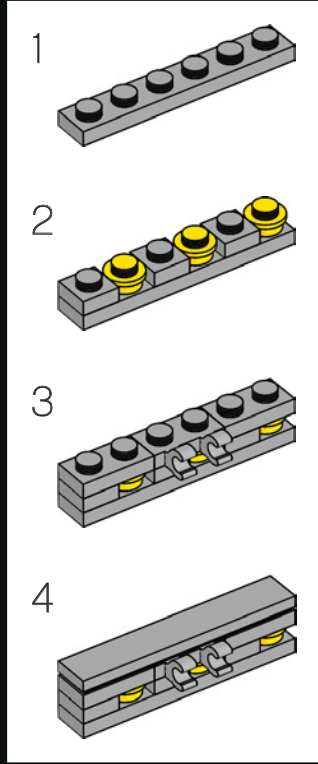


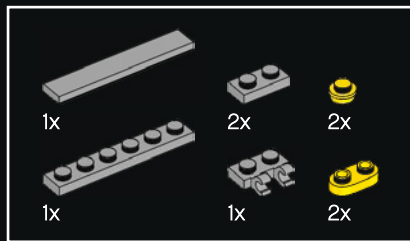


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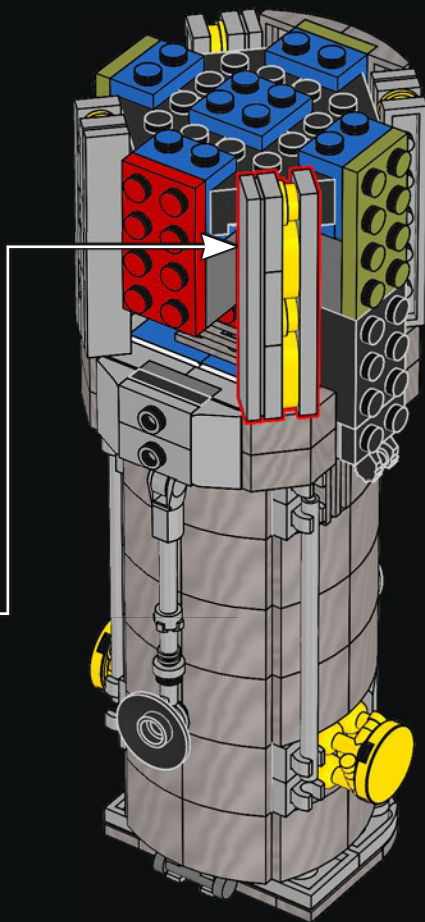
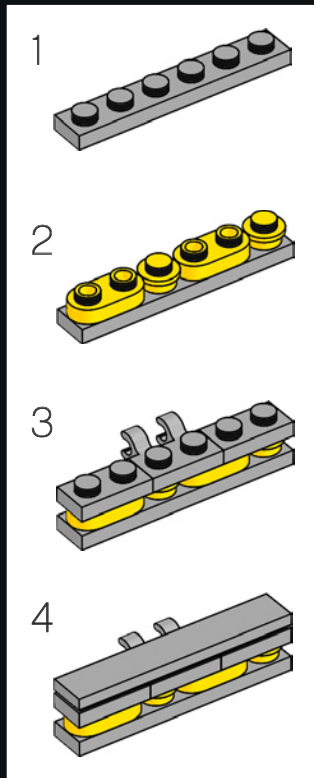


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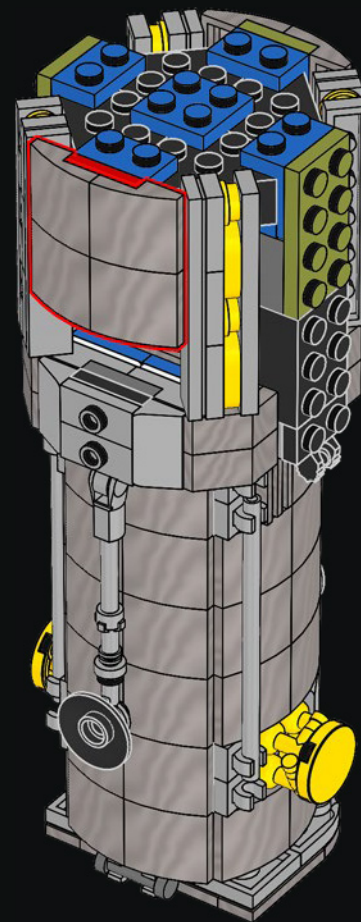




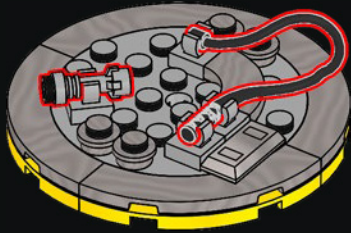
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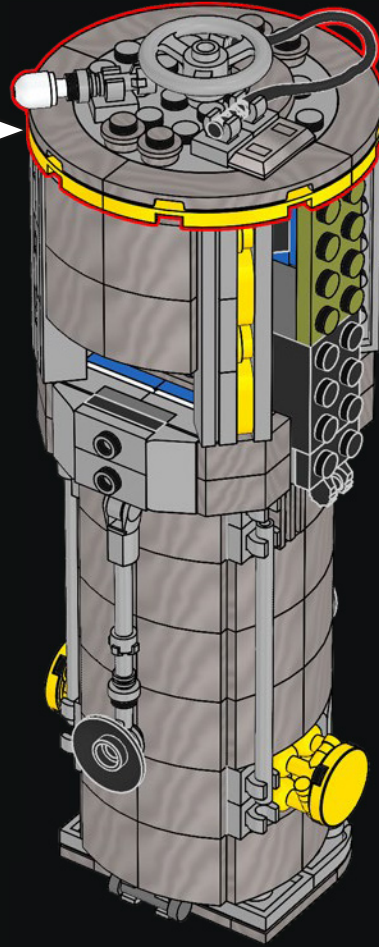
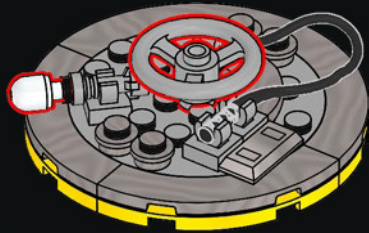
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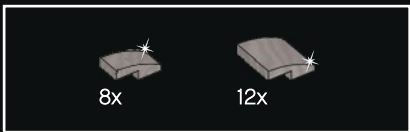


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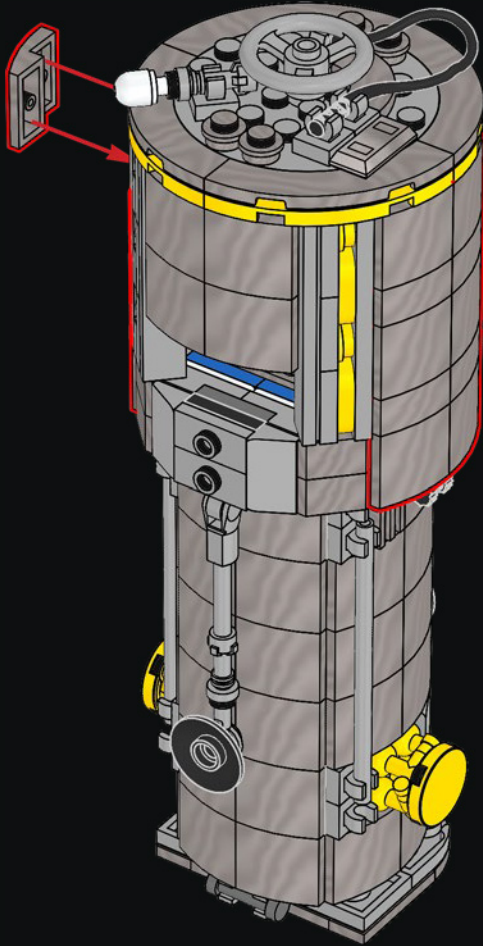


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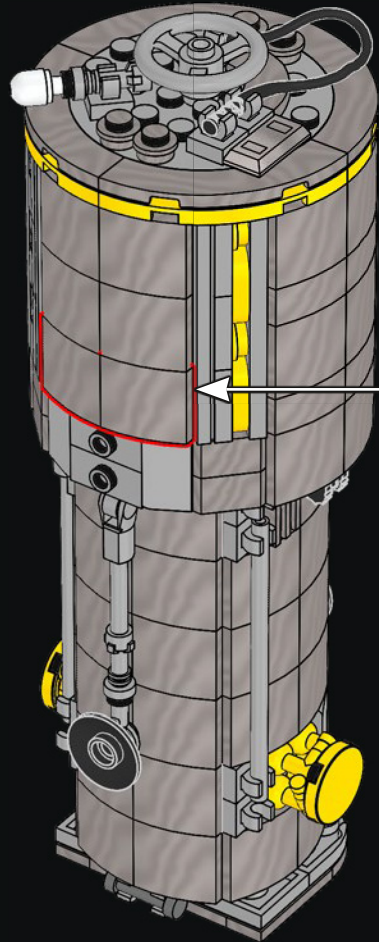
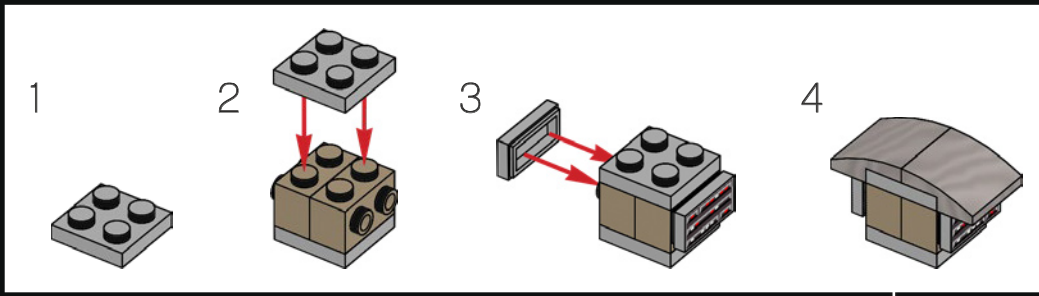


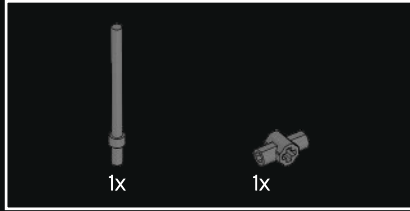
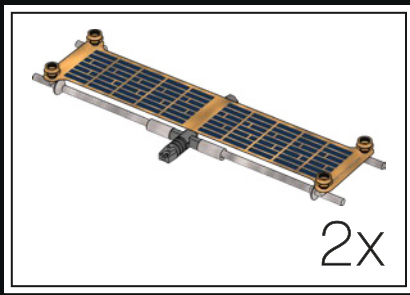
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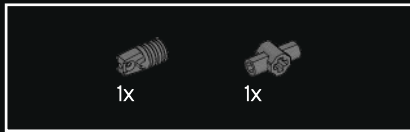
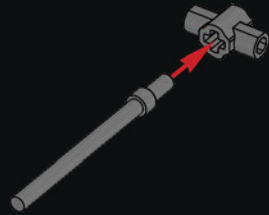


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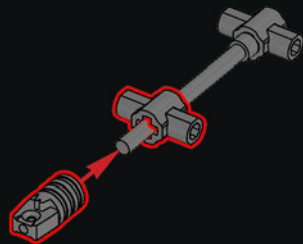




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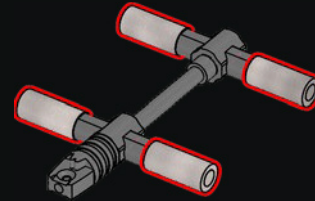
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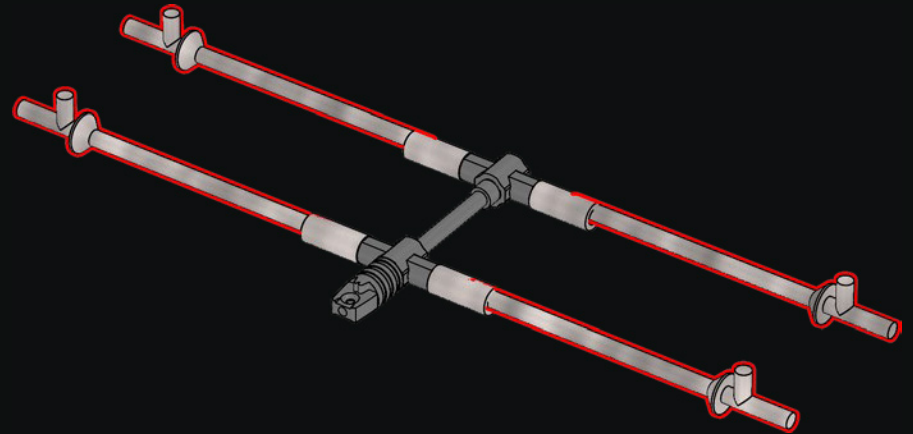
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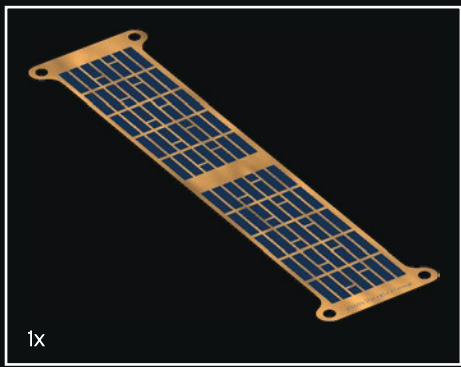


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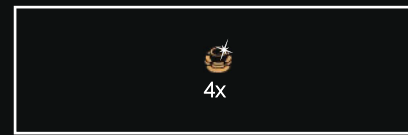
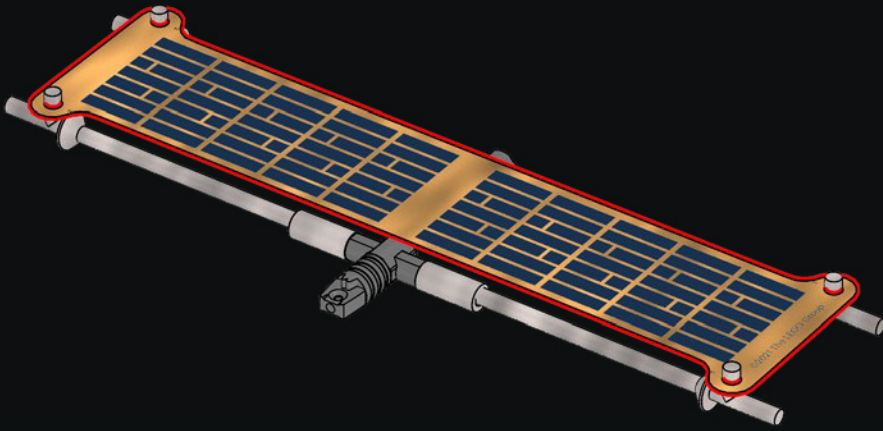


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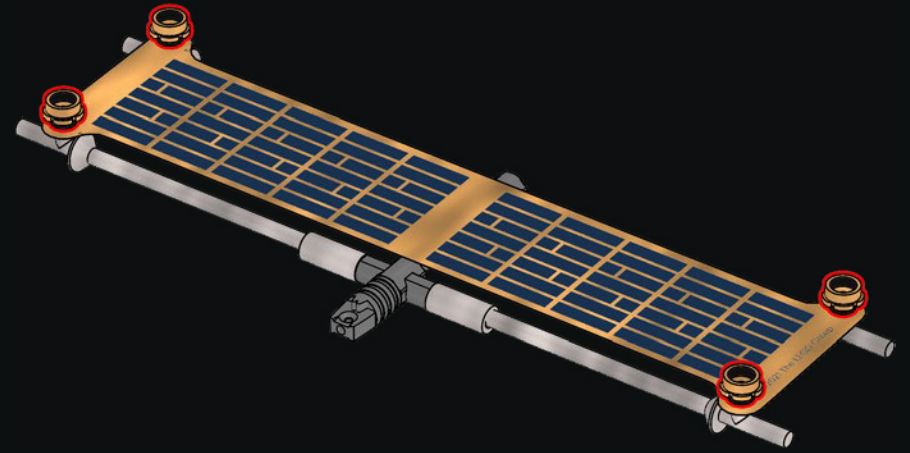




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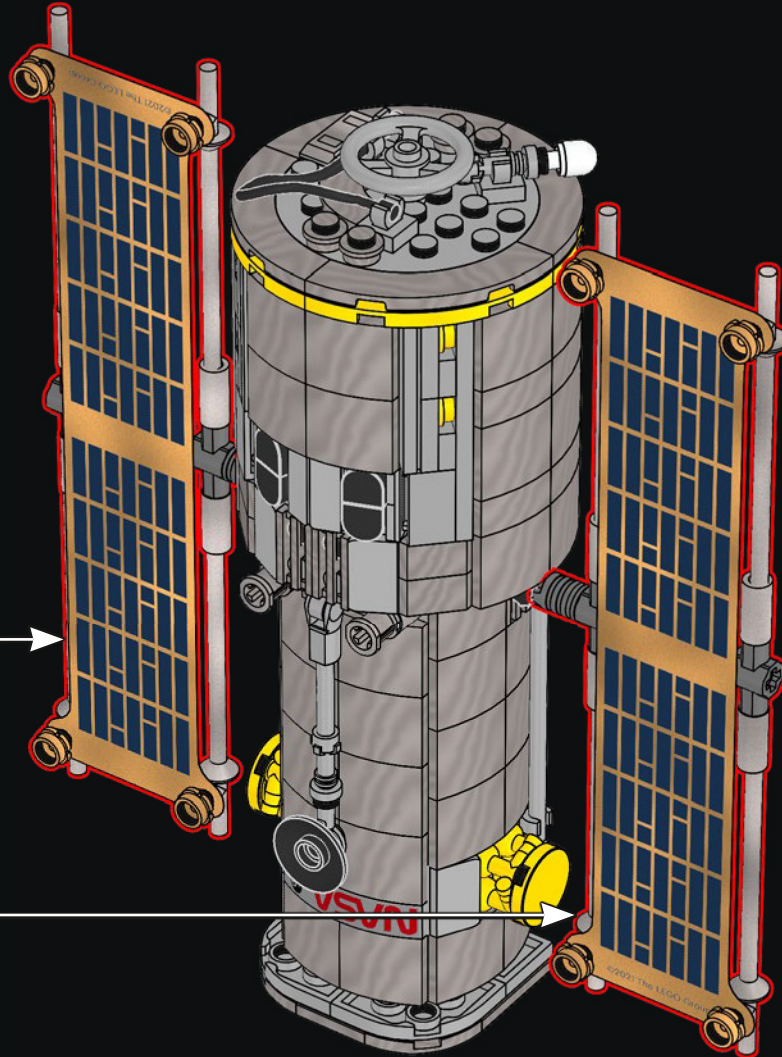


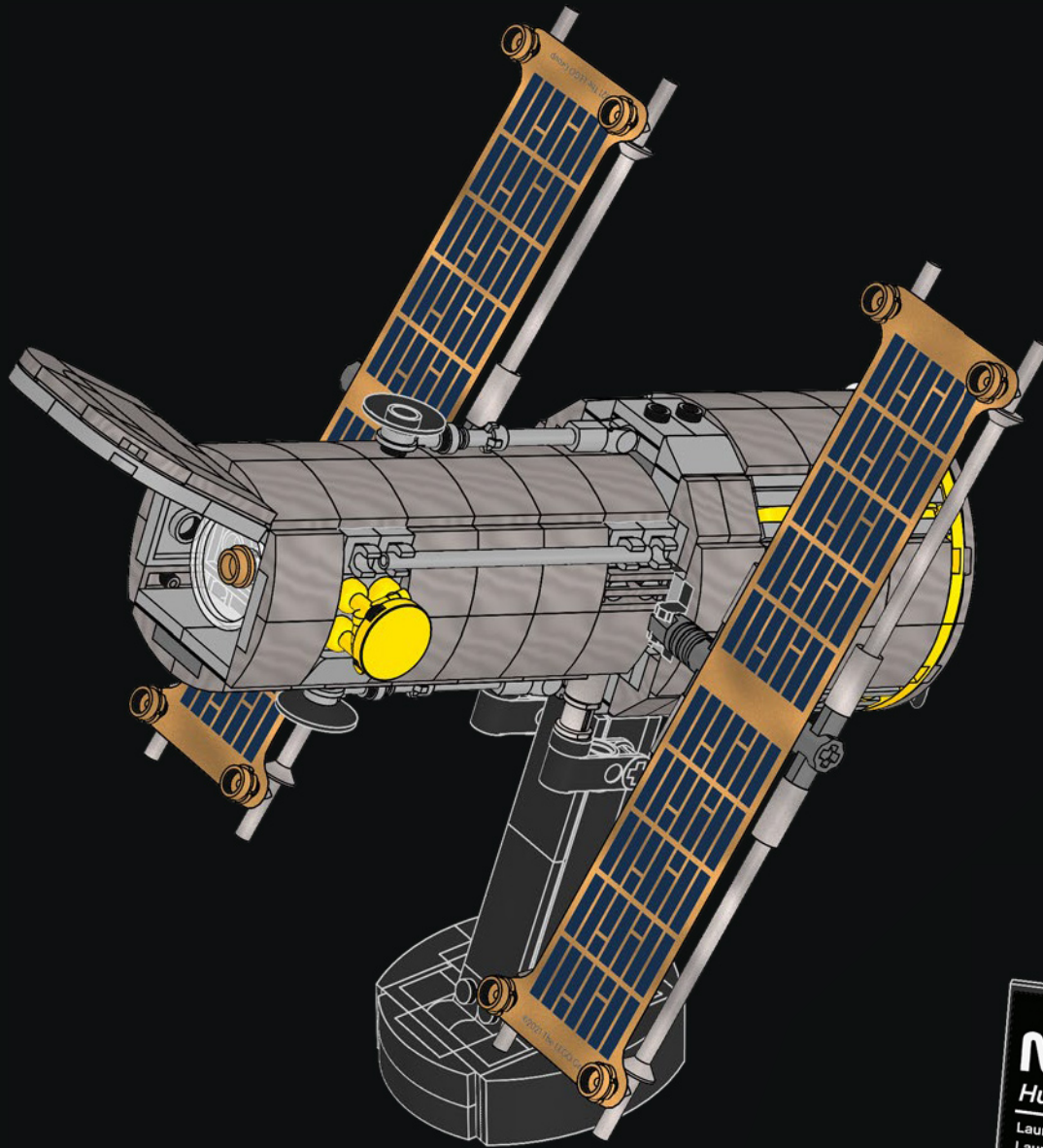
2x

DID YOU KNOW?

The Hubble Space Telescope is responsible for the deepest images of the universe ever recorded, which contain some galaxies over 13 billion light years away.

56





NASA  **esa**
Hubble Space Telescope

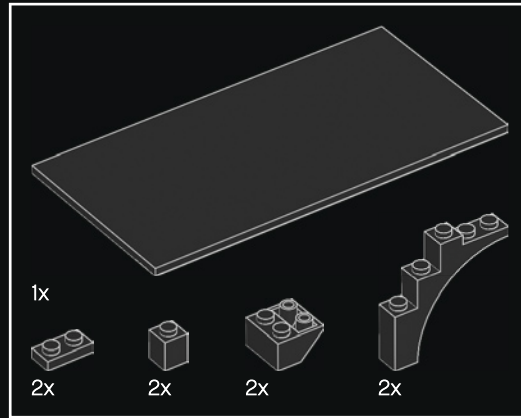
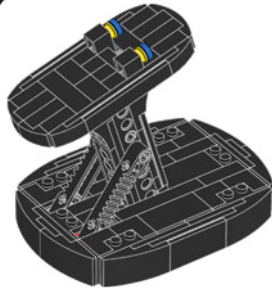
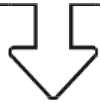
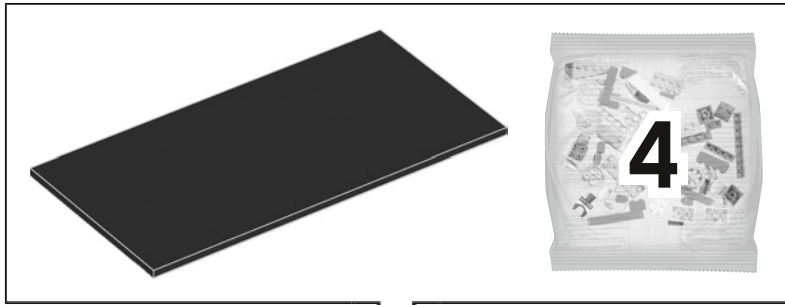
Launch: April 24, 1990
Launch Mass: 24,490 lbs
Velocity: 4.72 mi/s
Deploy Altitude: 350 miles

SPACE SHUTTLE DISCOVERY

The Space Shuttle program was driven by the need for reusable spacecraft that could carry large payloads into orbit. Discovery (OV-103) was NASA's third "Orbital Vehicle" in the fleet, joining in November 1983. It would go on to complete 39 missions, fly 238 kilometres (149 million miles), complete 5,830 orbits of Earth and spend almost 365 days in space throughout its 27 years of service. The 5-day mission to deploy Hubble launched from NASA's Kennedy Space Center on 24 April 1990. The designers created the telescope to fit snugly inside the shuttle's cargo bay.







1x

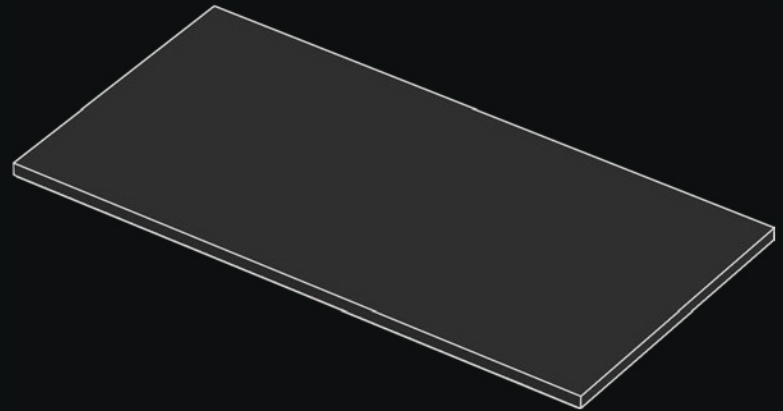
2x

2x

2x

2x

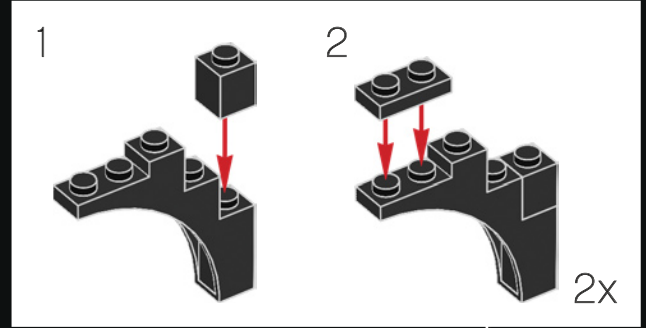
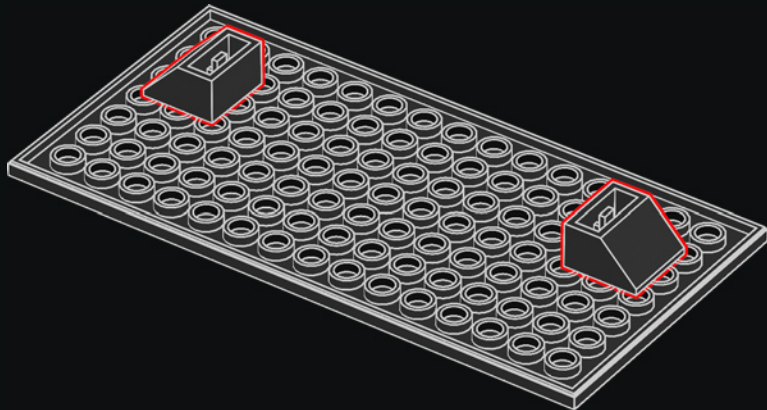
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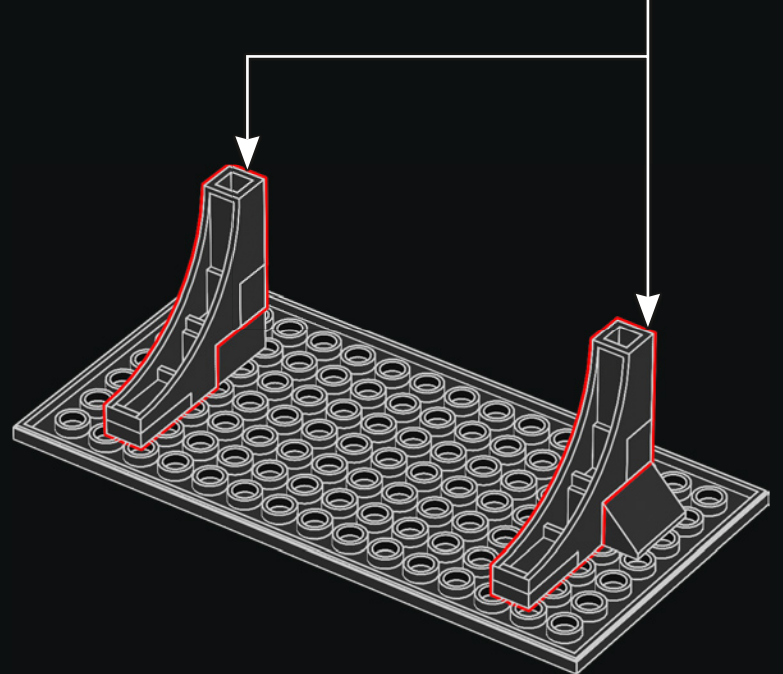
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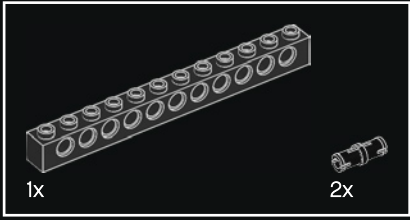
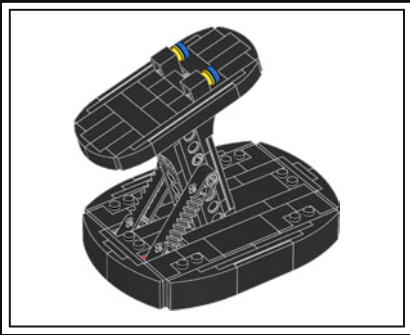


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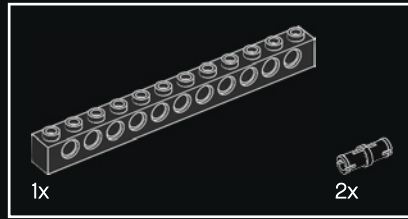
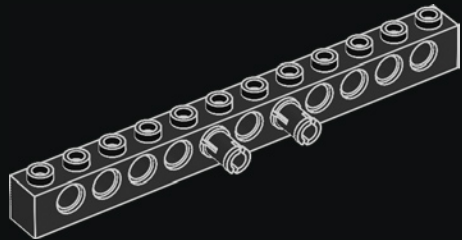


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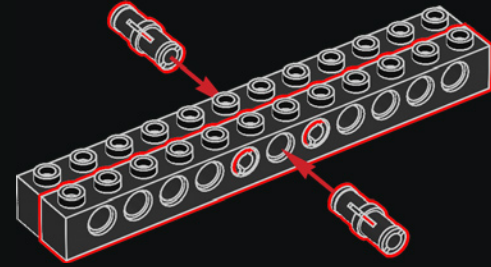




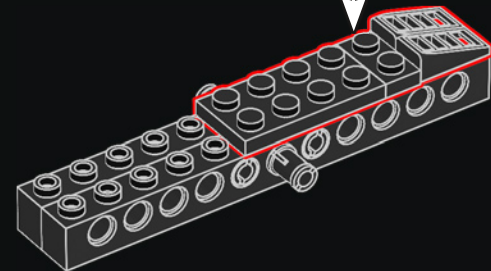
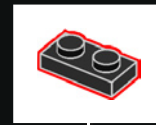
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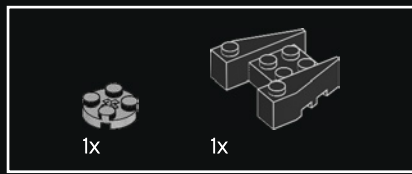


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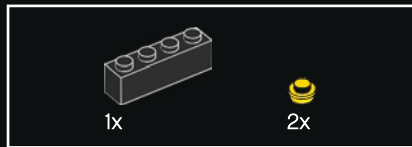
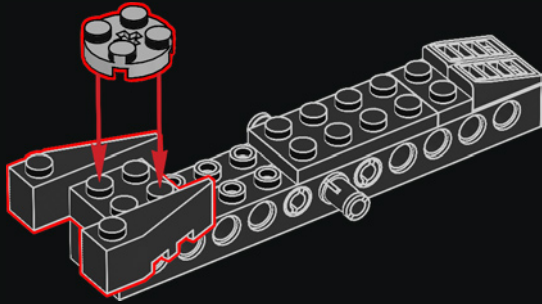


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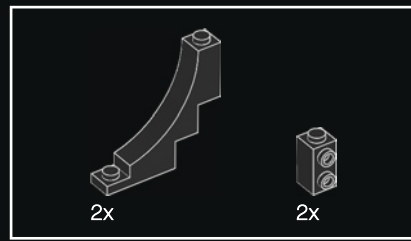
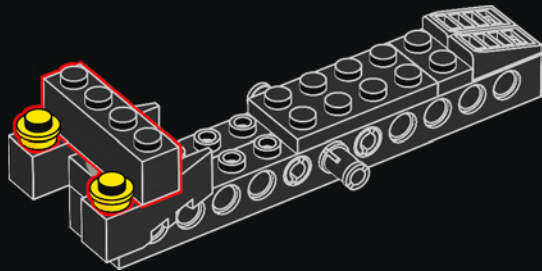




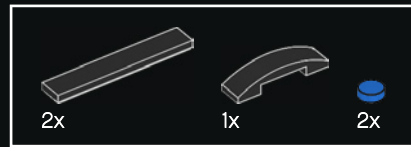
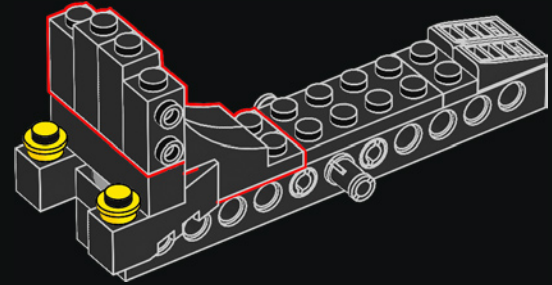
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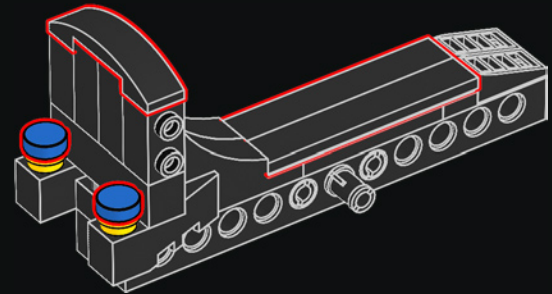
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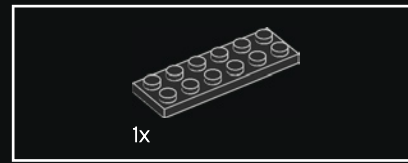
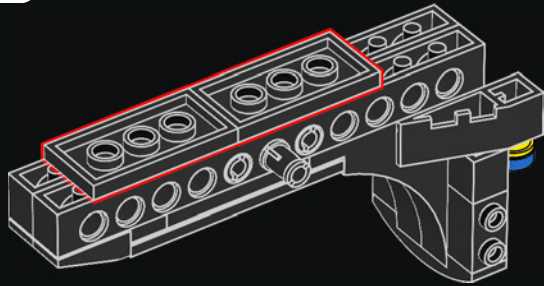


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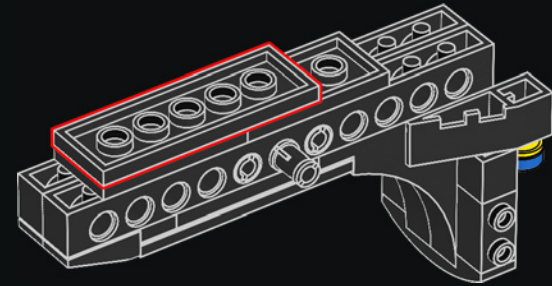


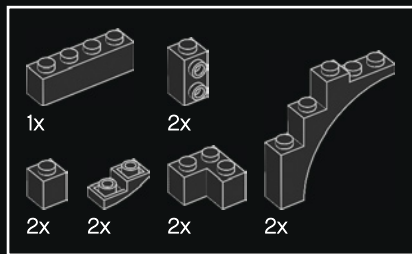


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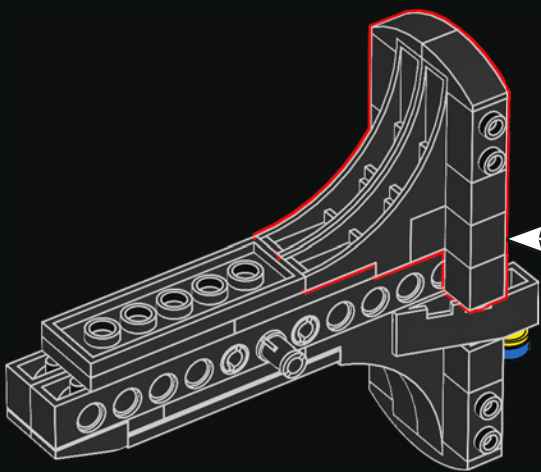
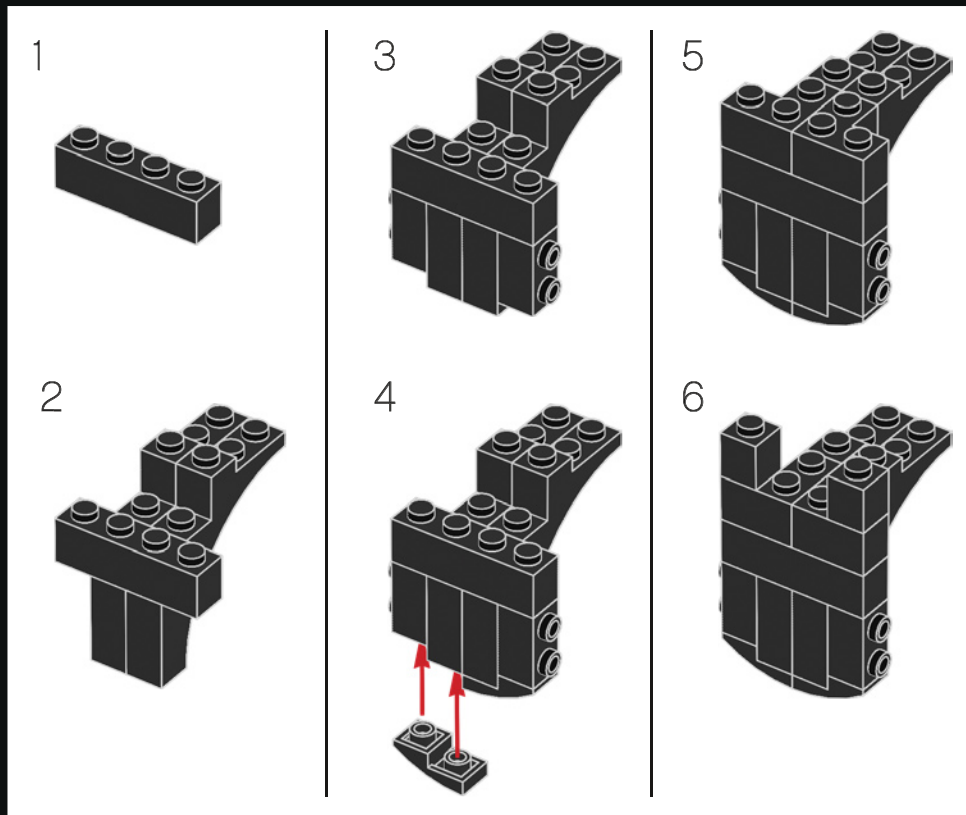


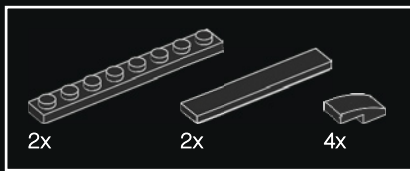
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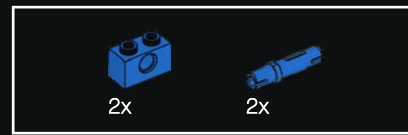
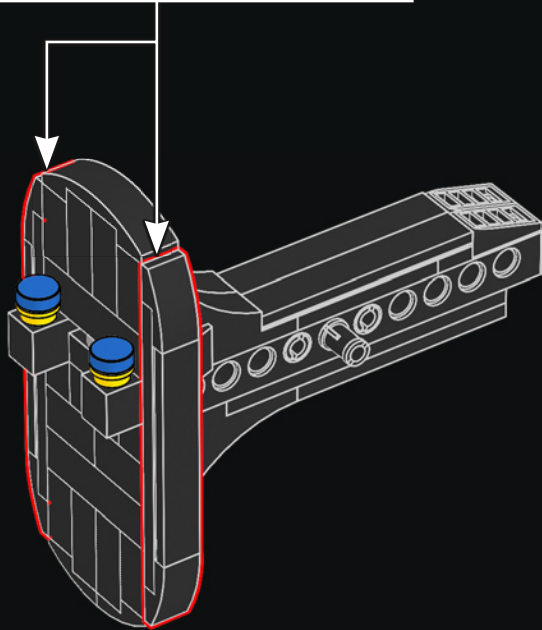
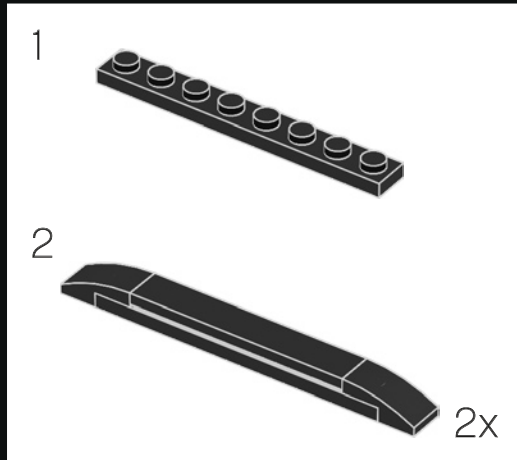


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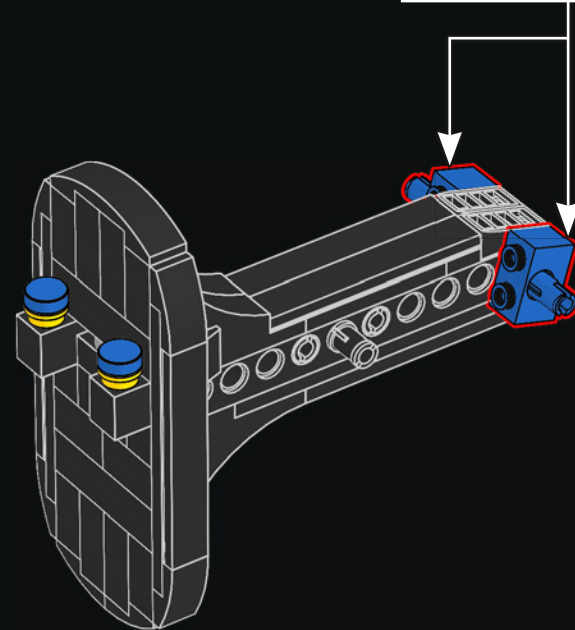
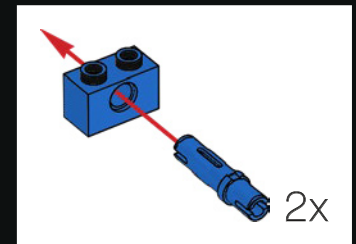


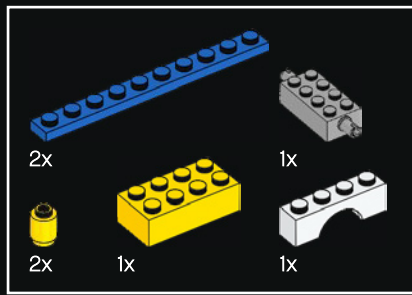


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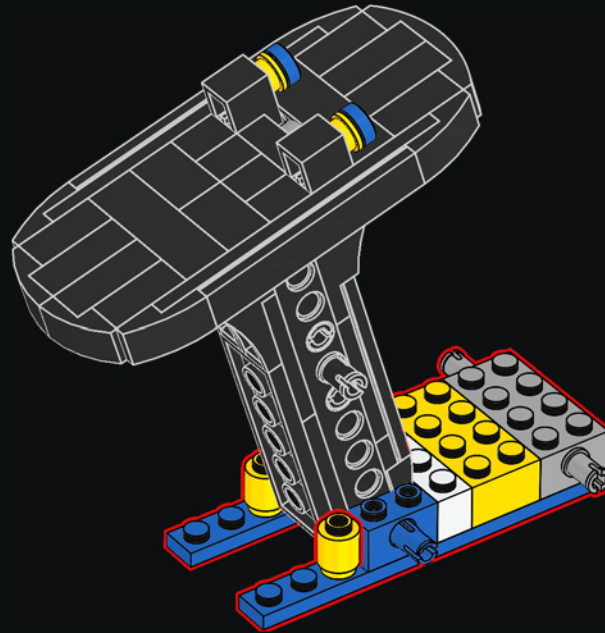
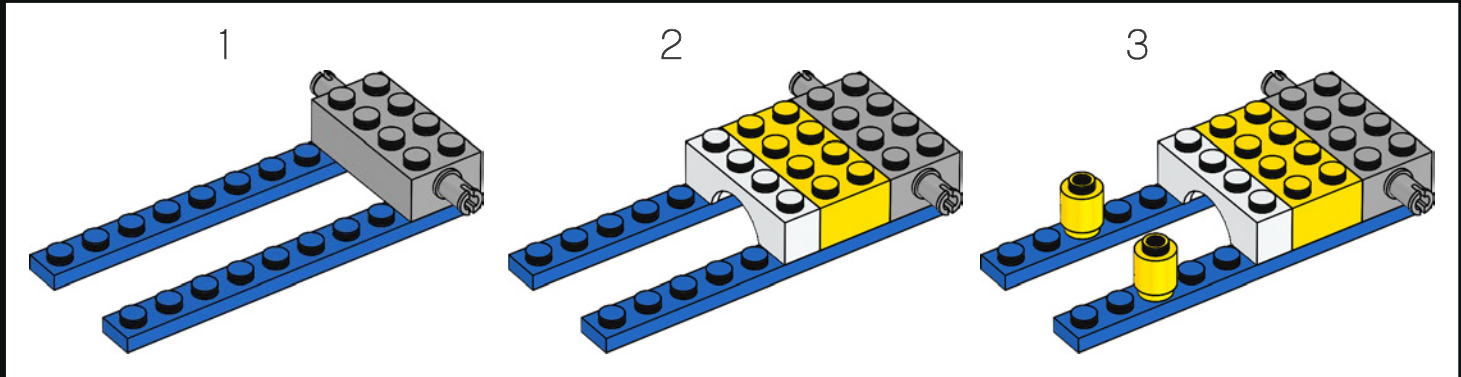


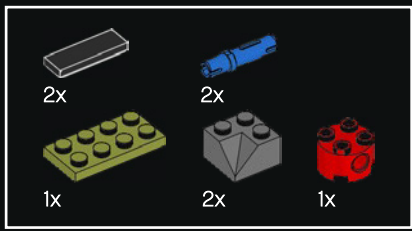
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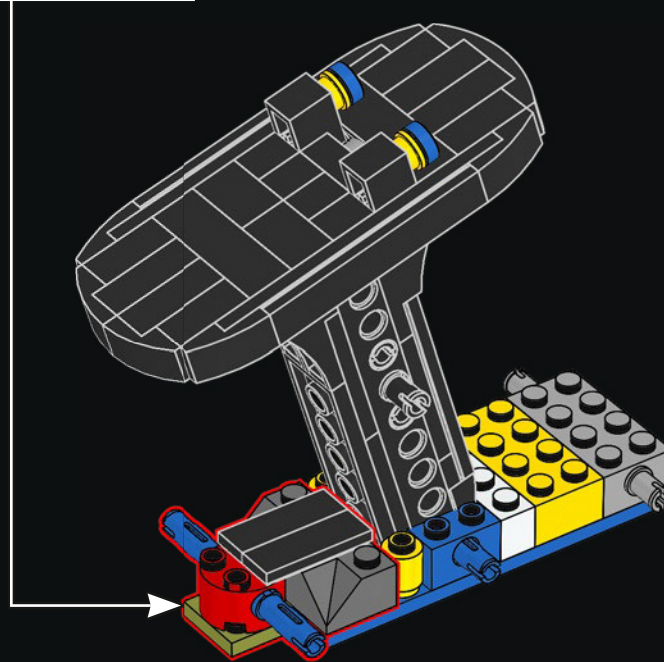
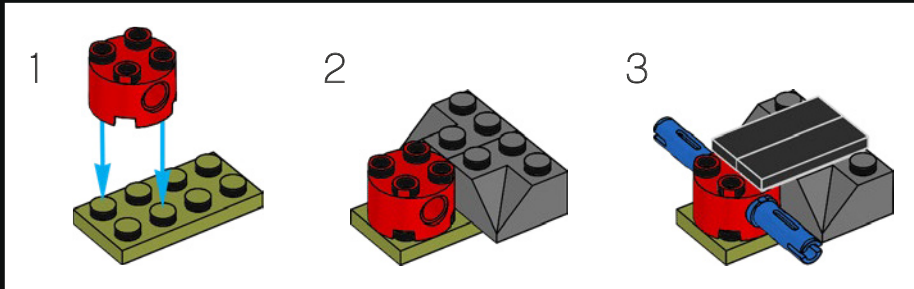


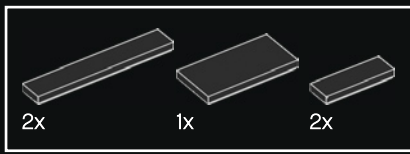
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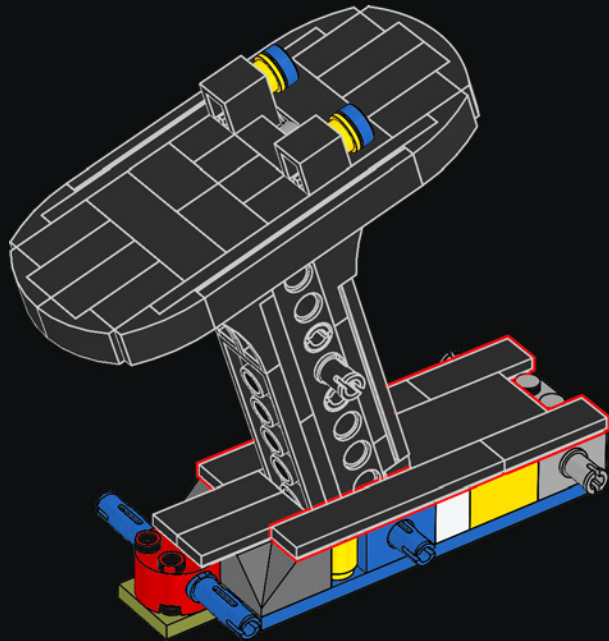


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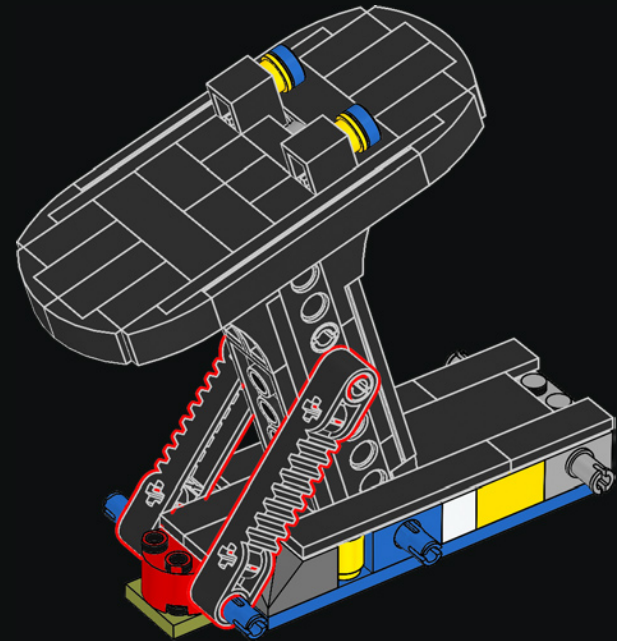


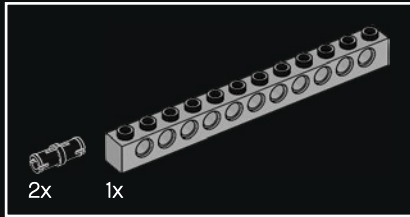
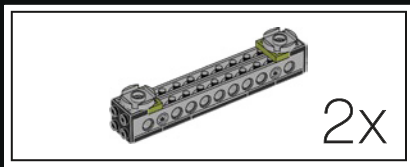


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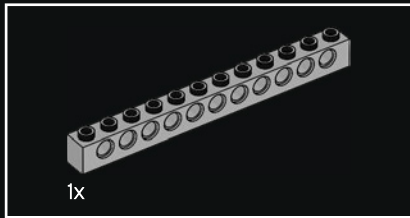
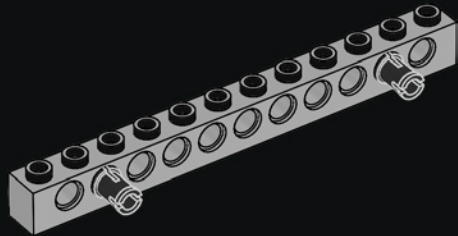


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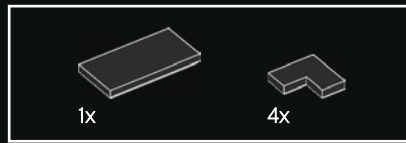
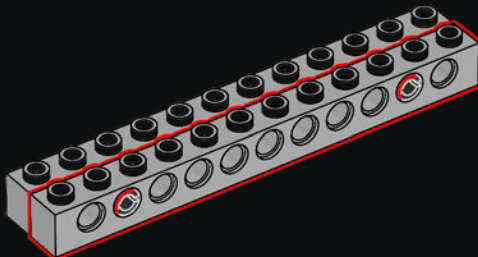




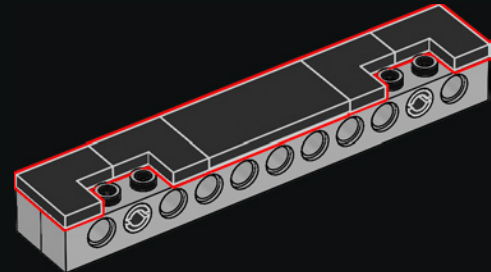
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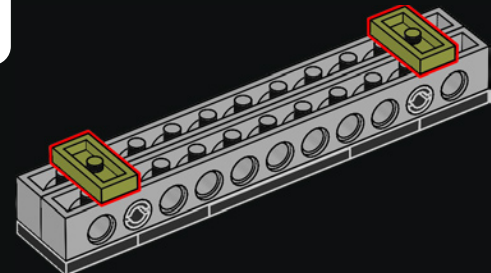
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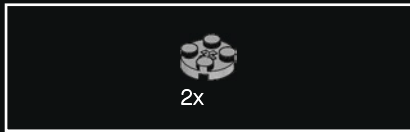
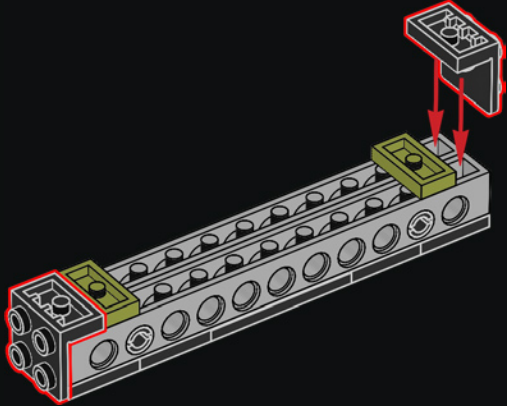


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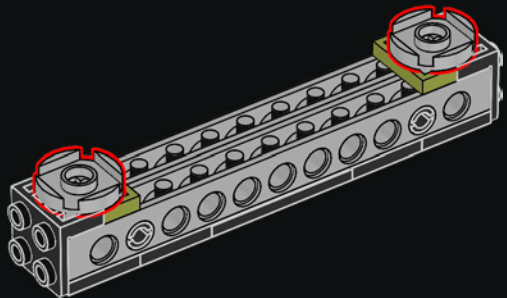




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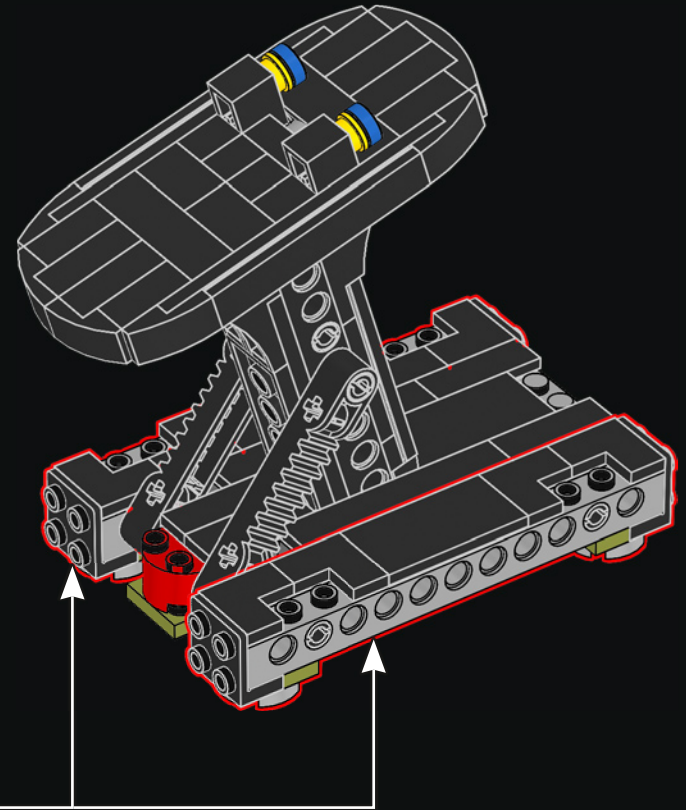


22



2x

23



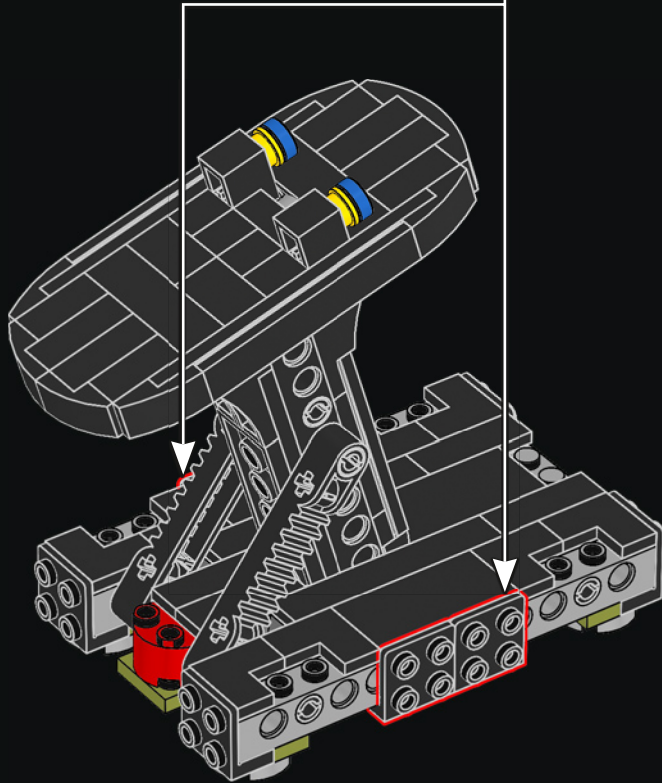


4x

24

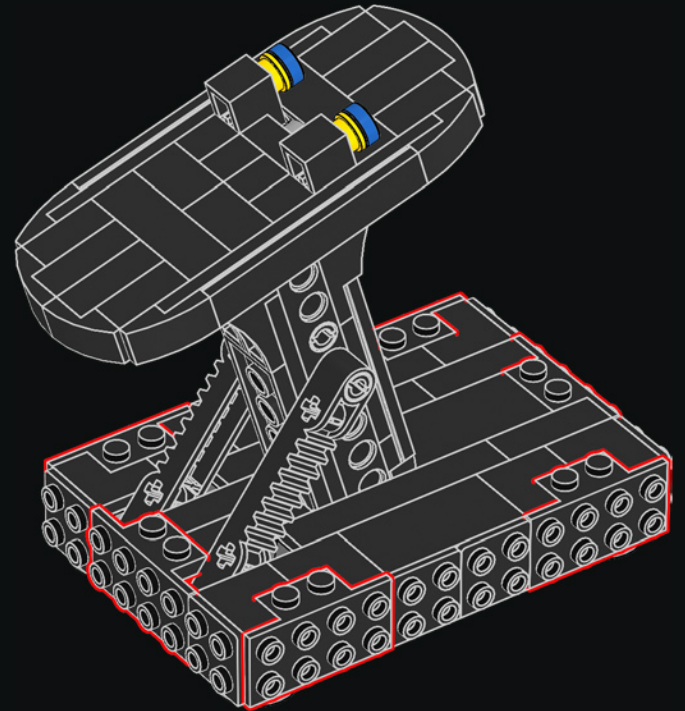


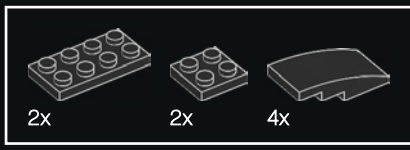
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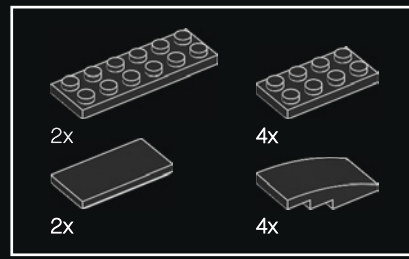
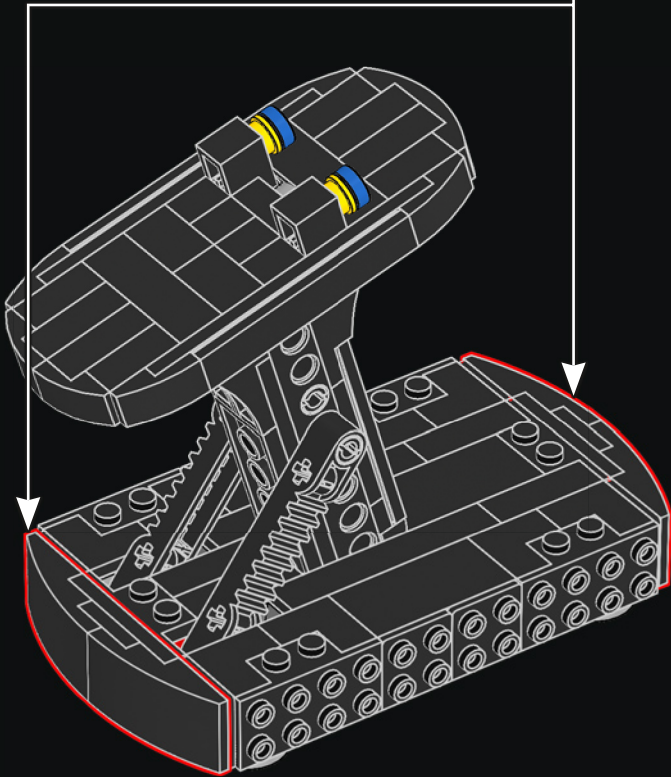
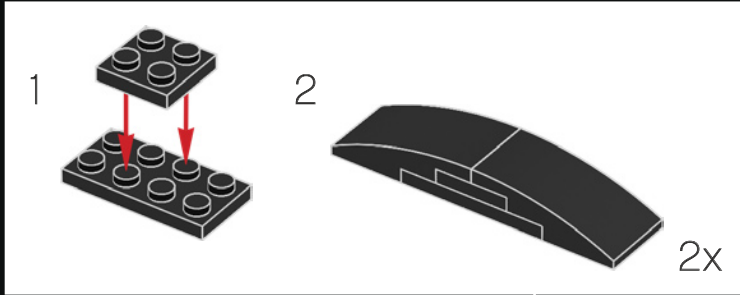
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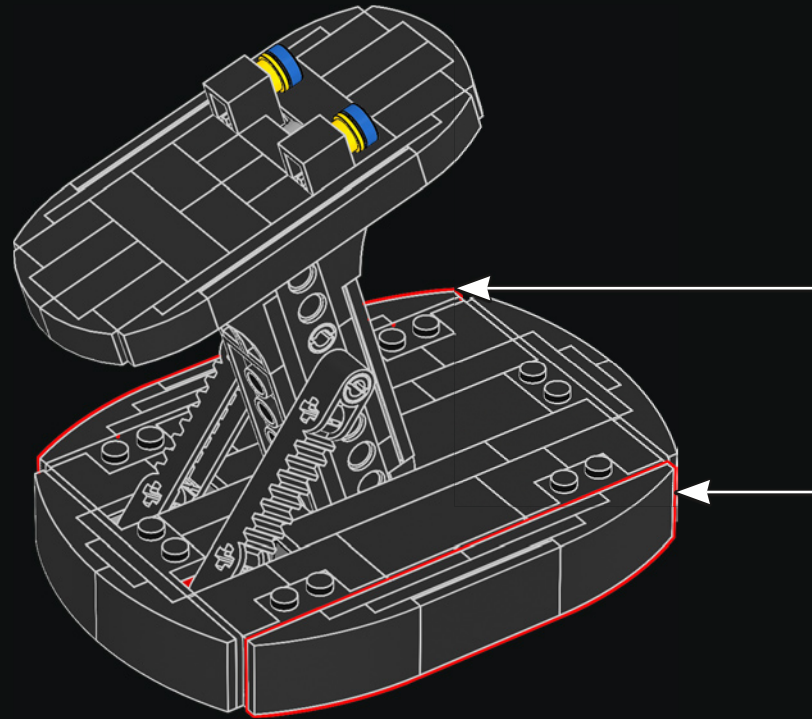
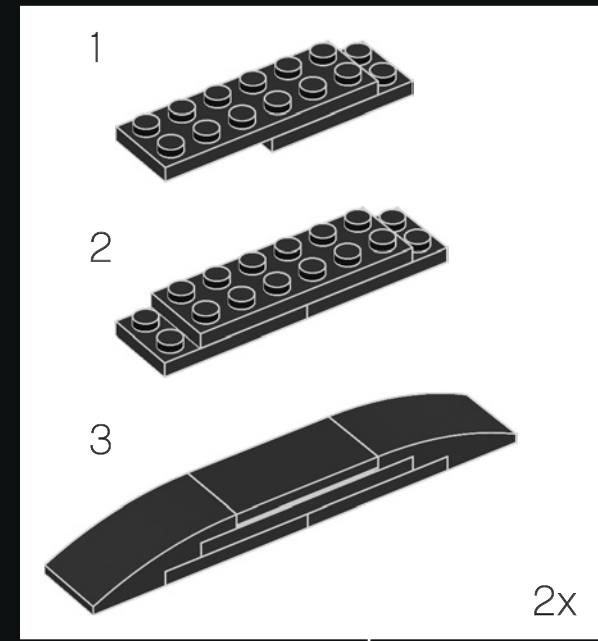


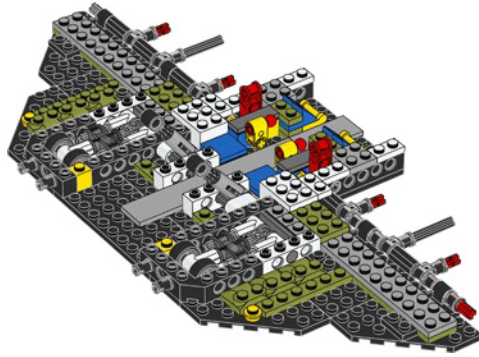


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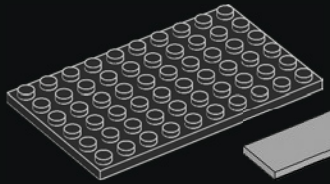
27





DID YOU KNOW?

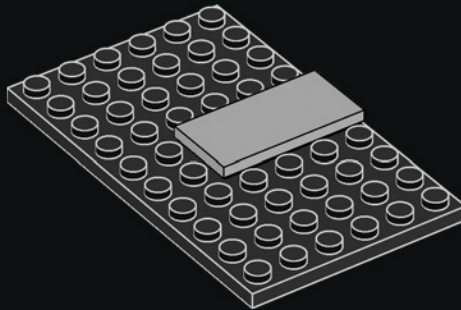
Discovery carried 222 people throughout its time in service, the highest number of any shuttle.

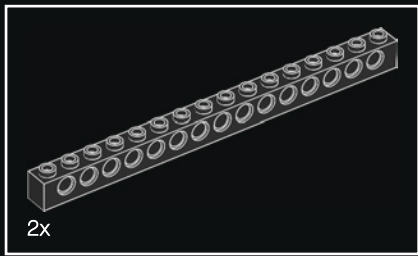


1x

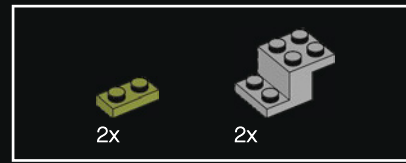
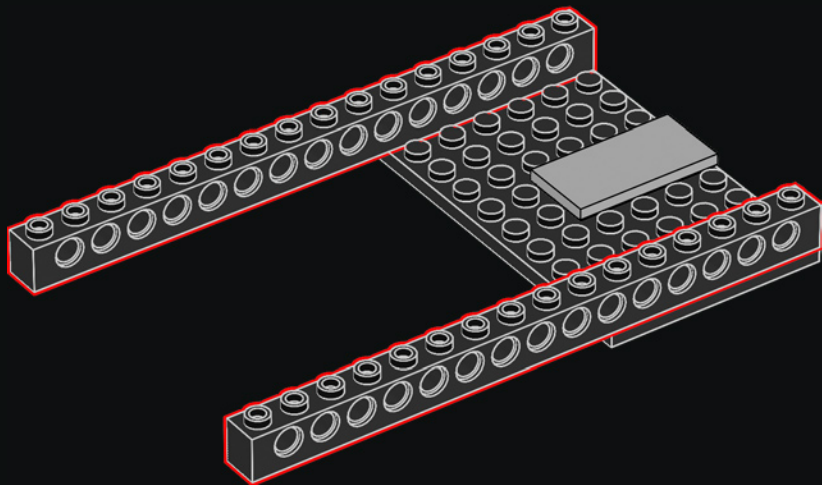
1x

1

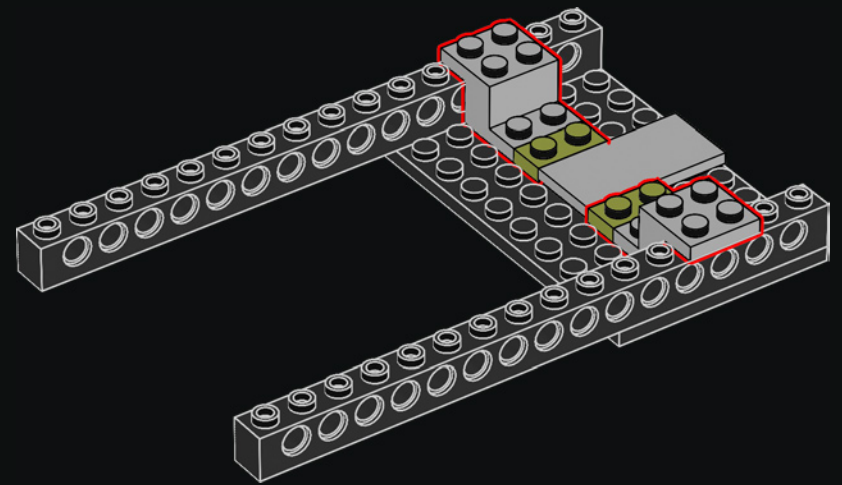




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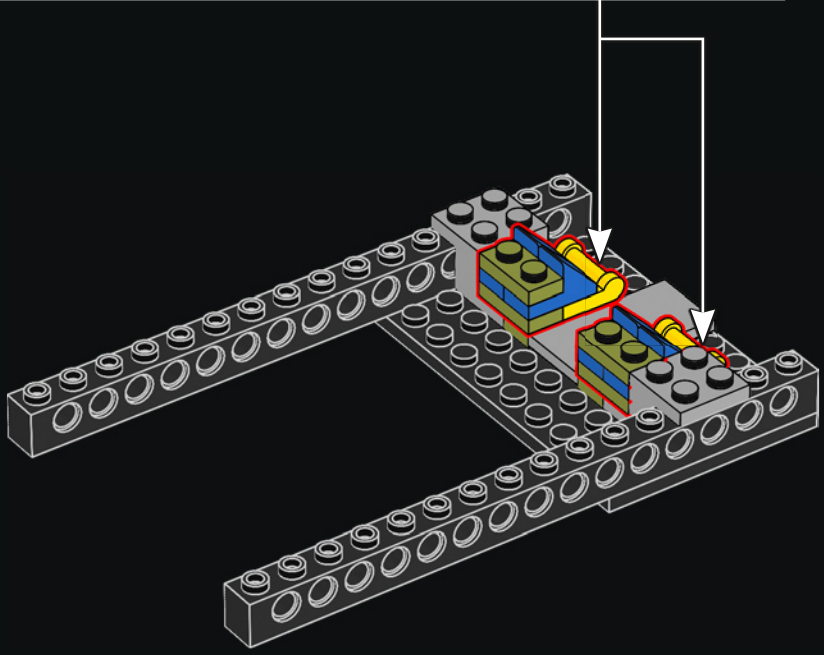
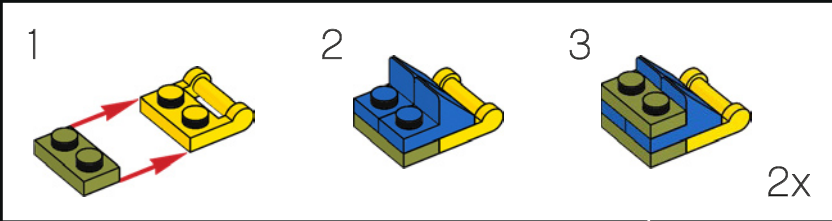


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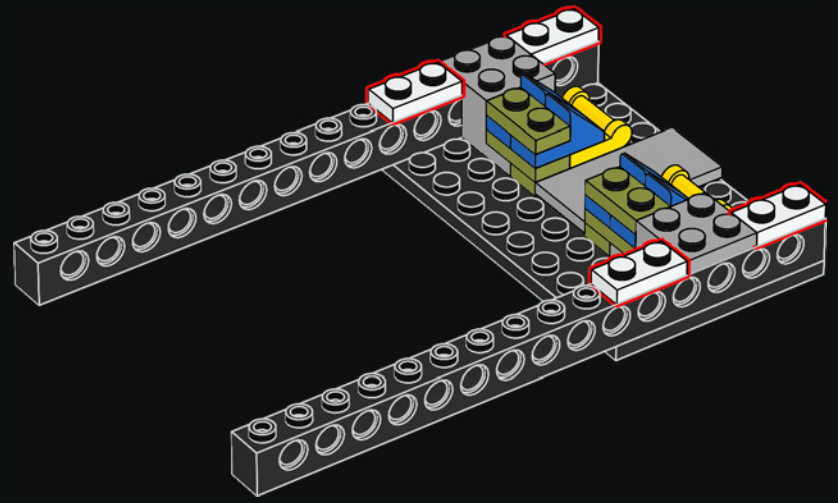




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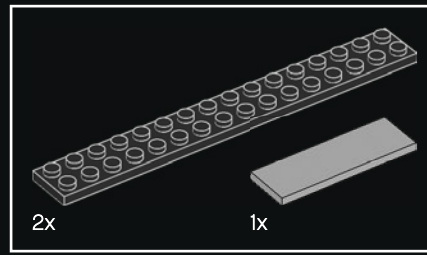
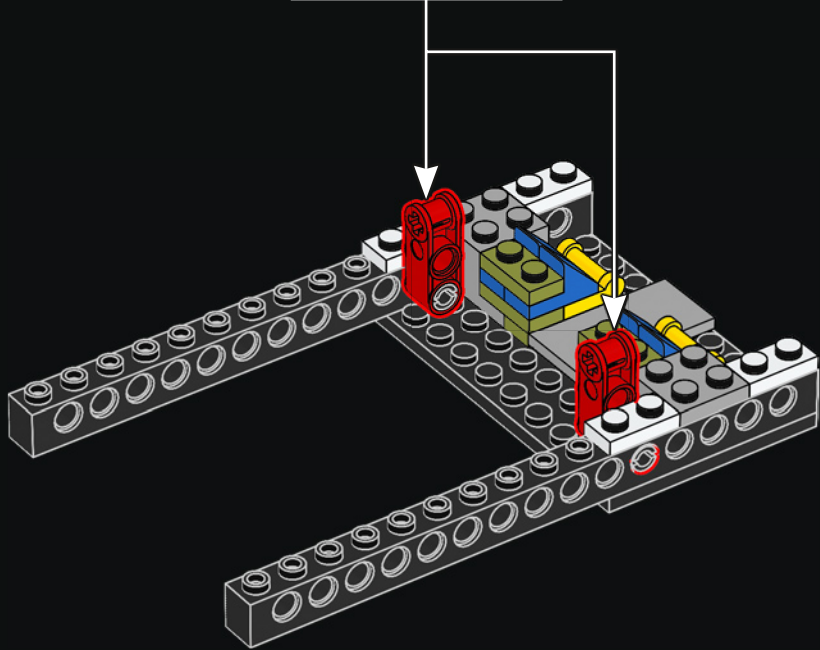
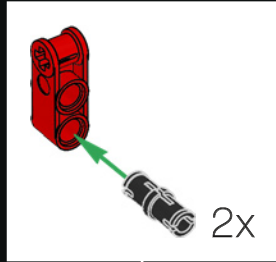


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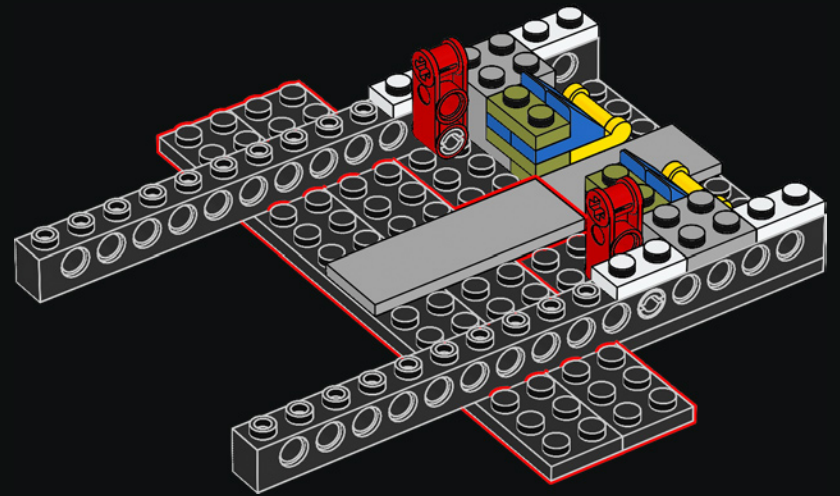




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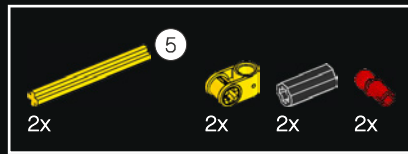
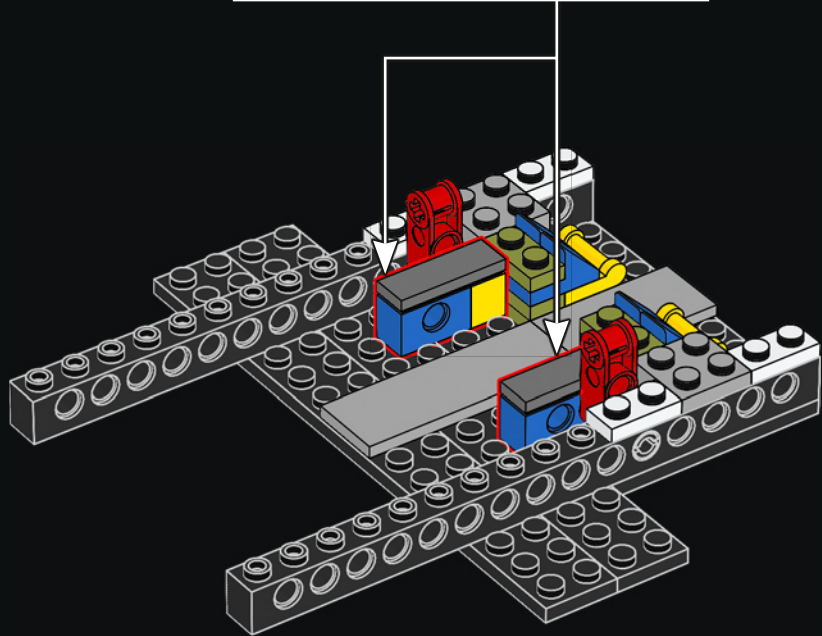
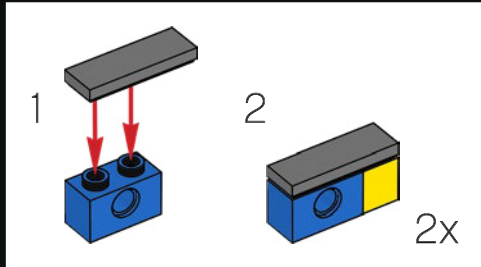


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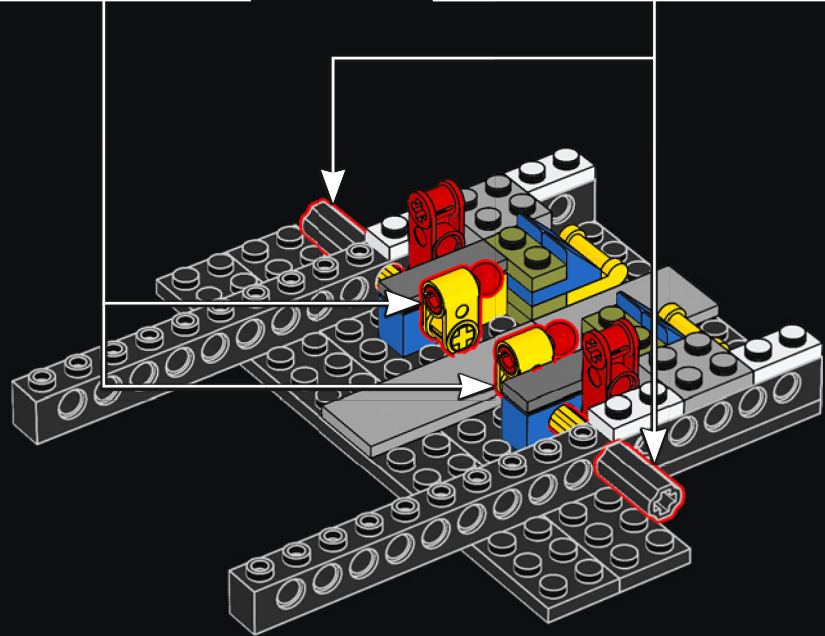
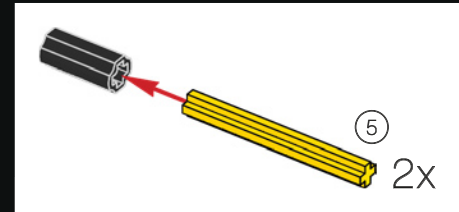
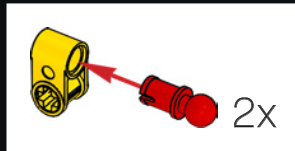




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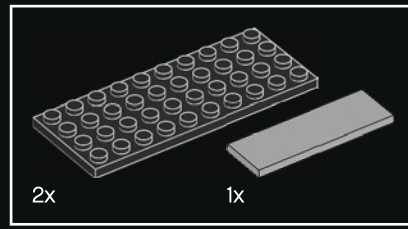
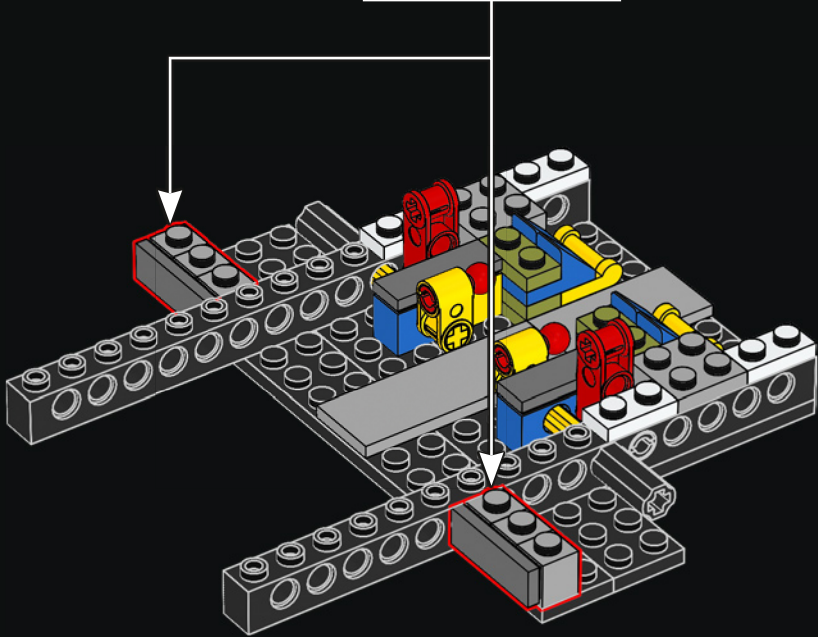
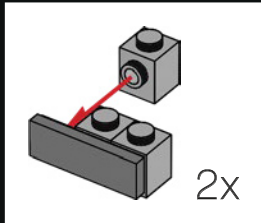


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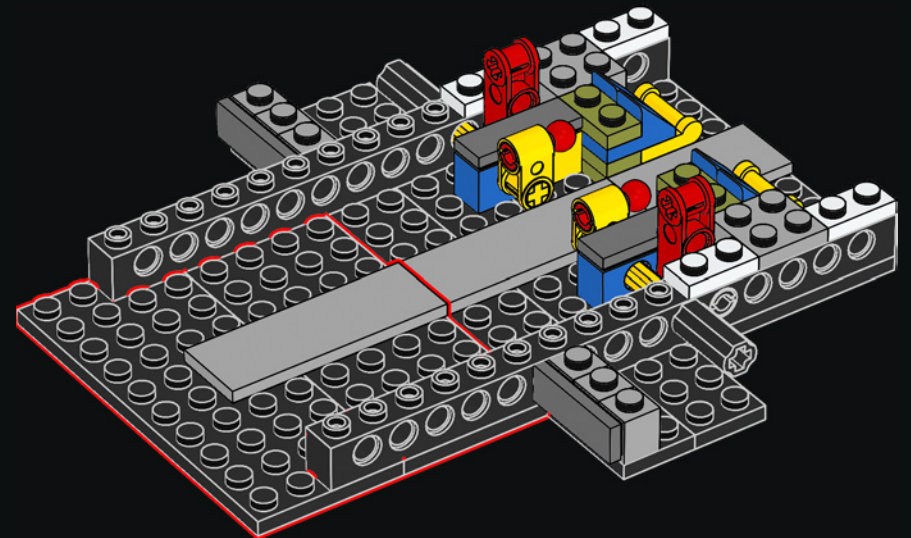


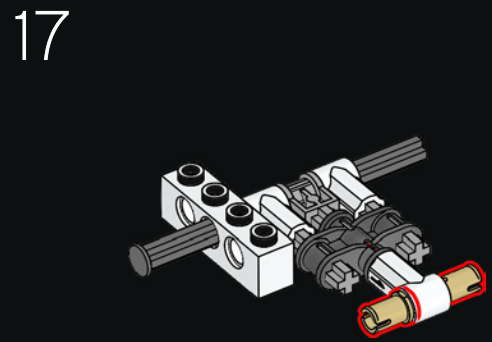
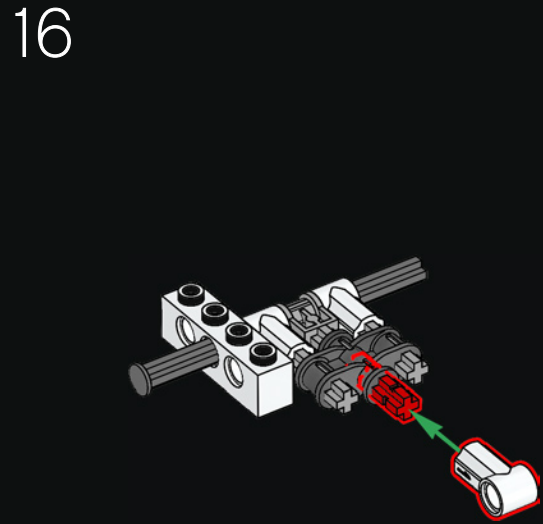
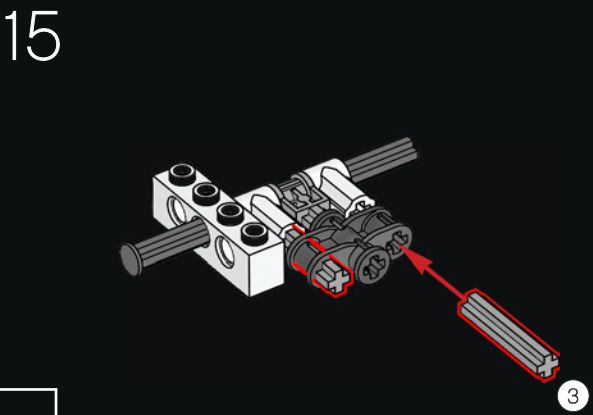
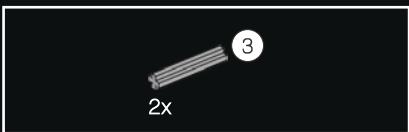
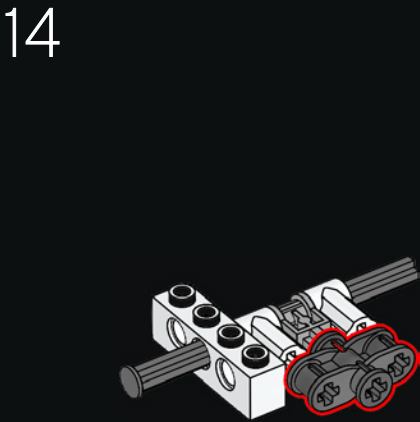
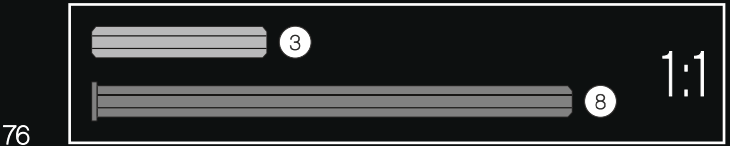
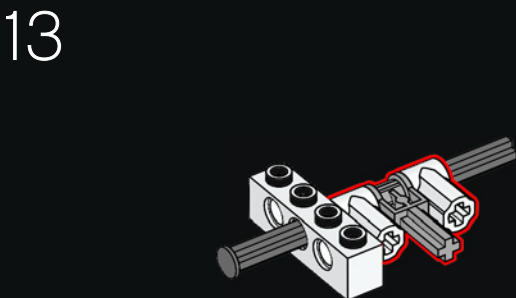
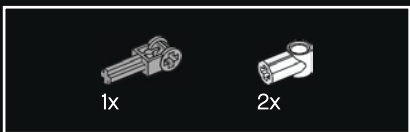
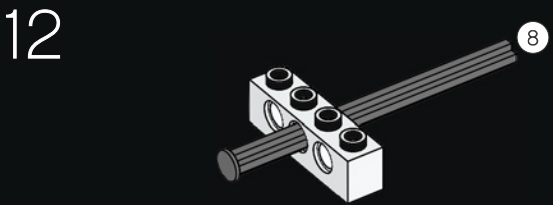
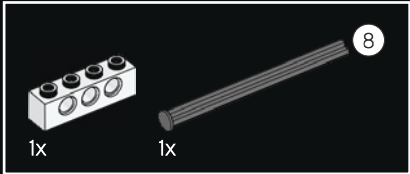
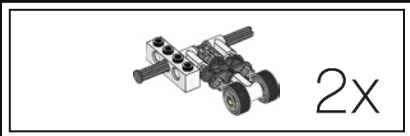


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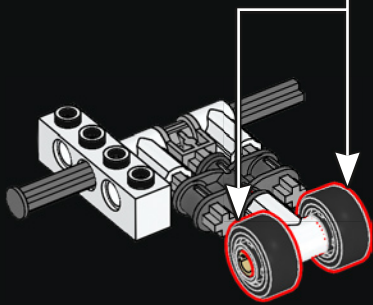
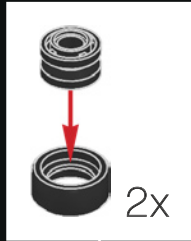
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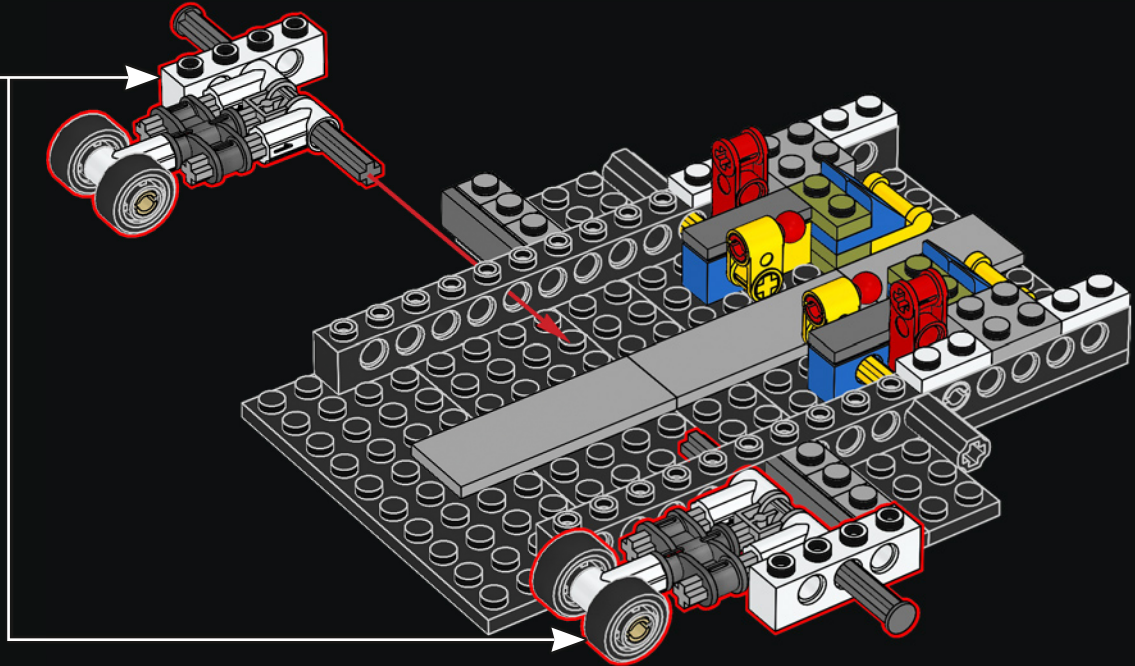




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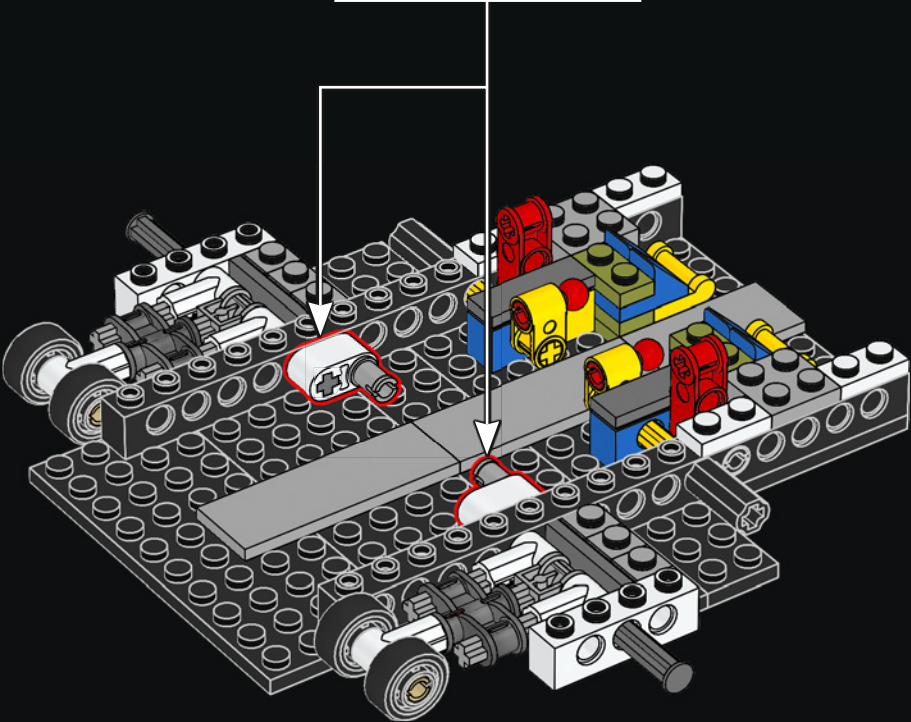
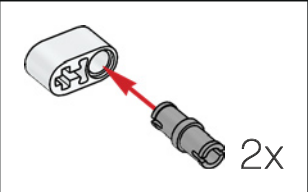


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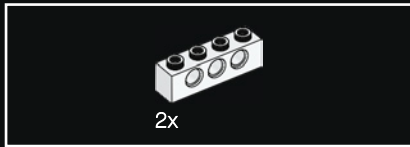
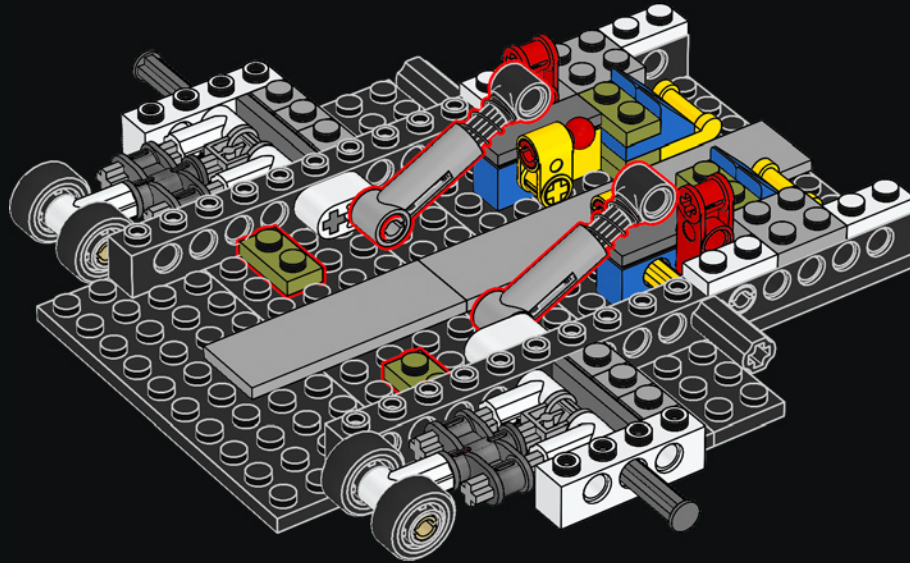


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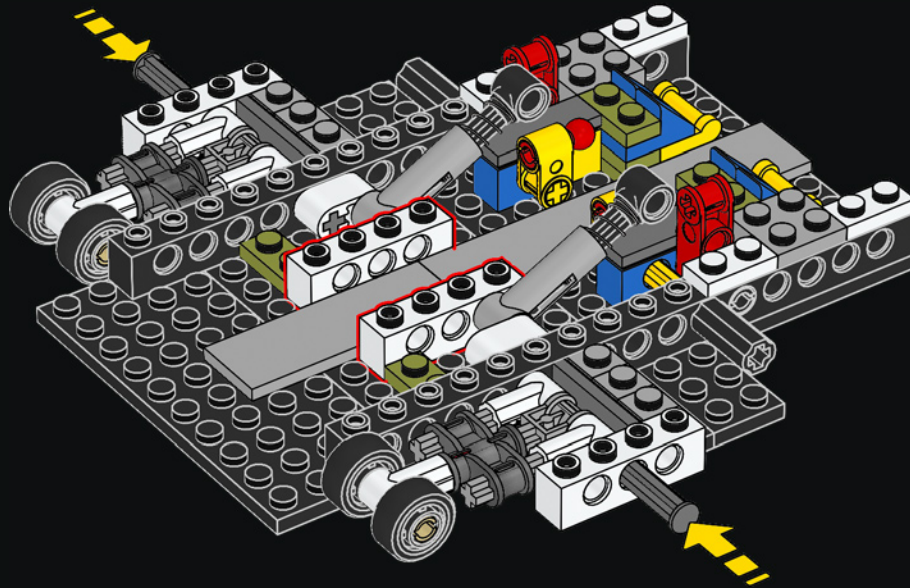


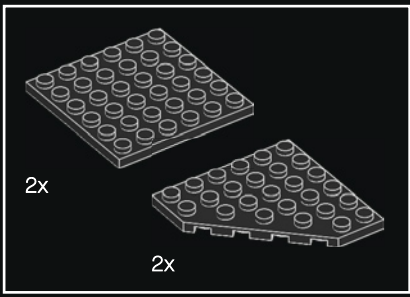


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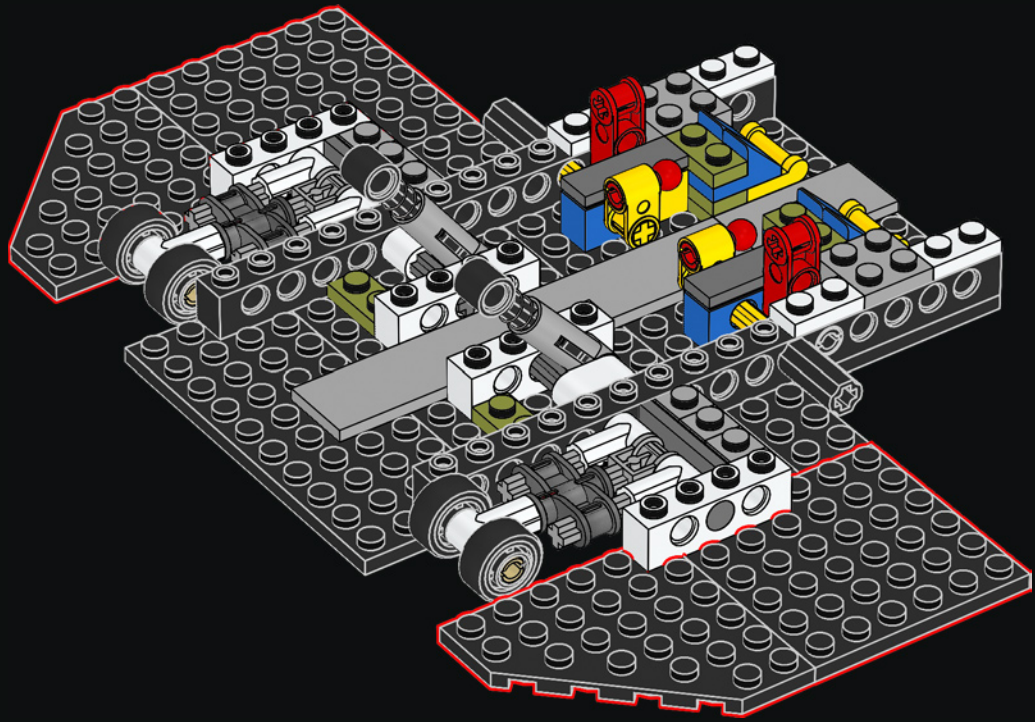


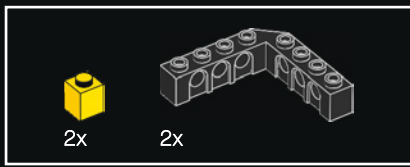
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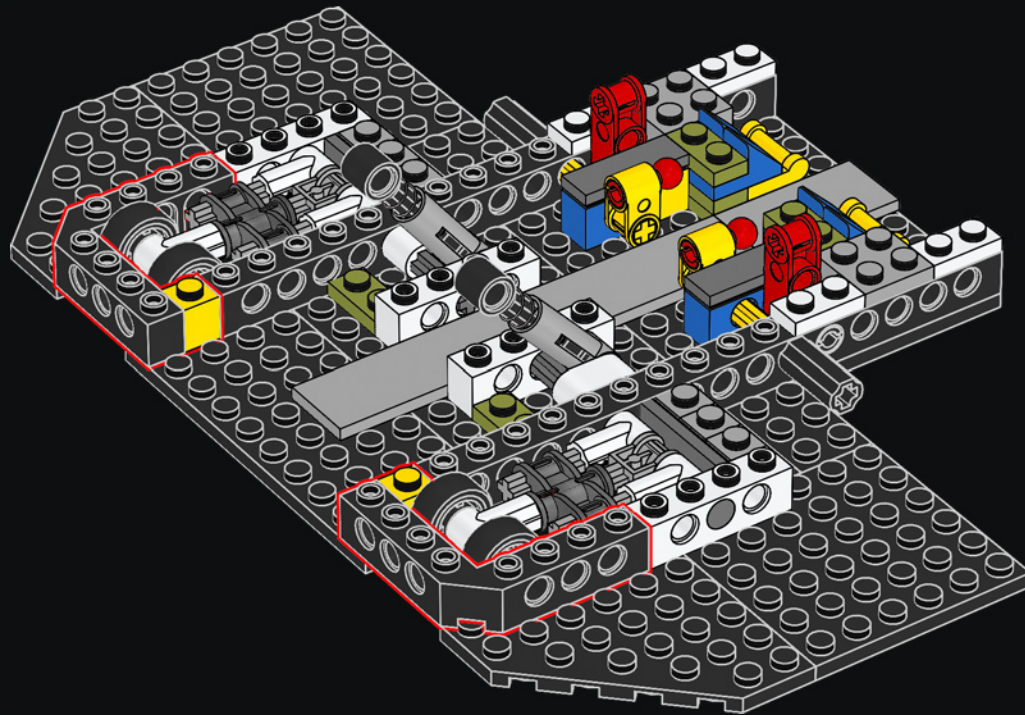


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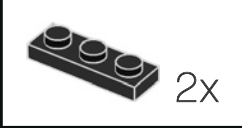
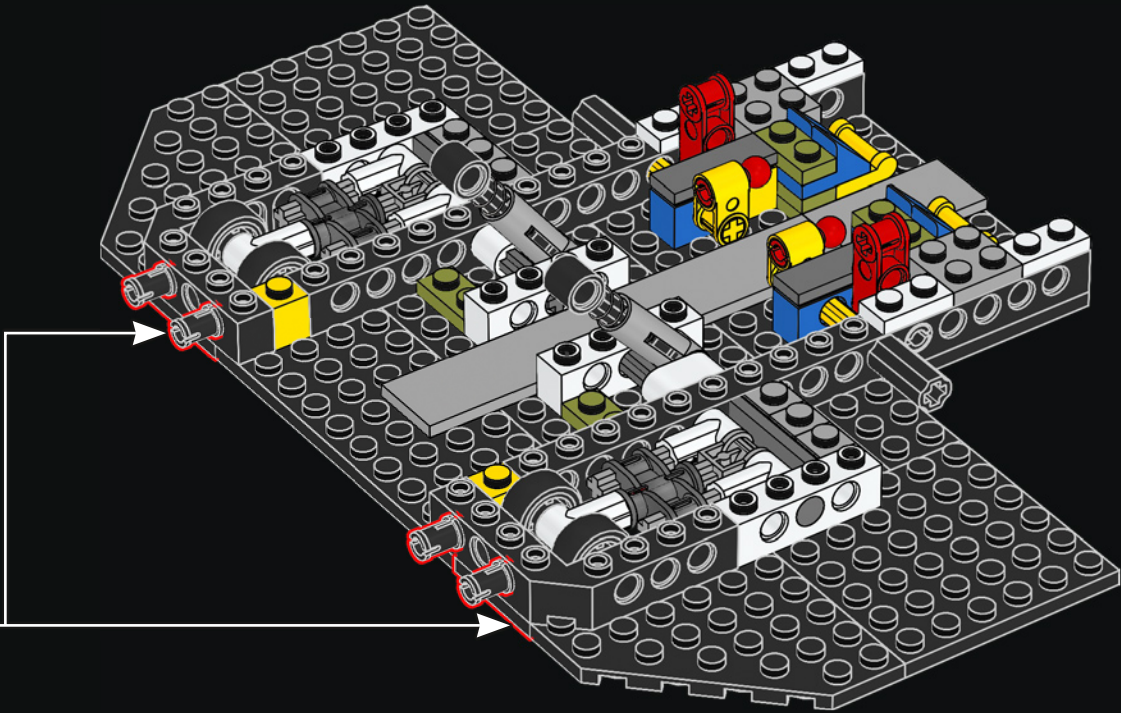


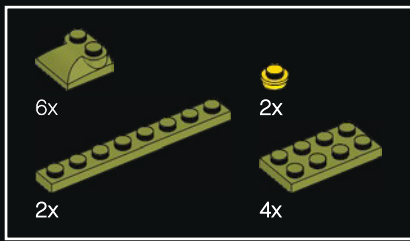
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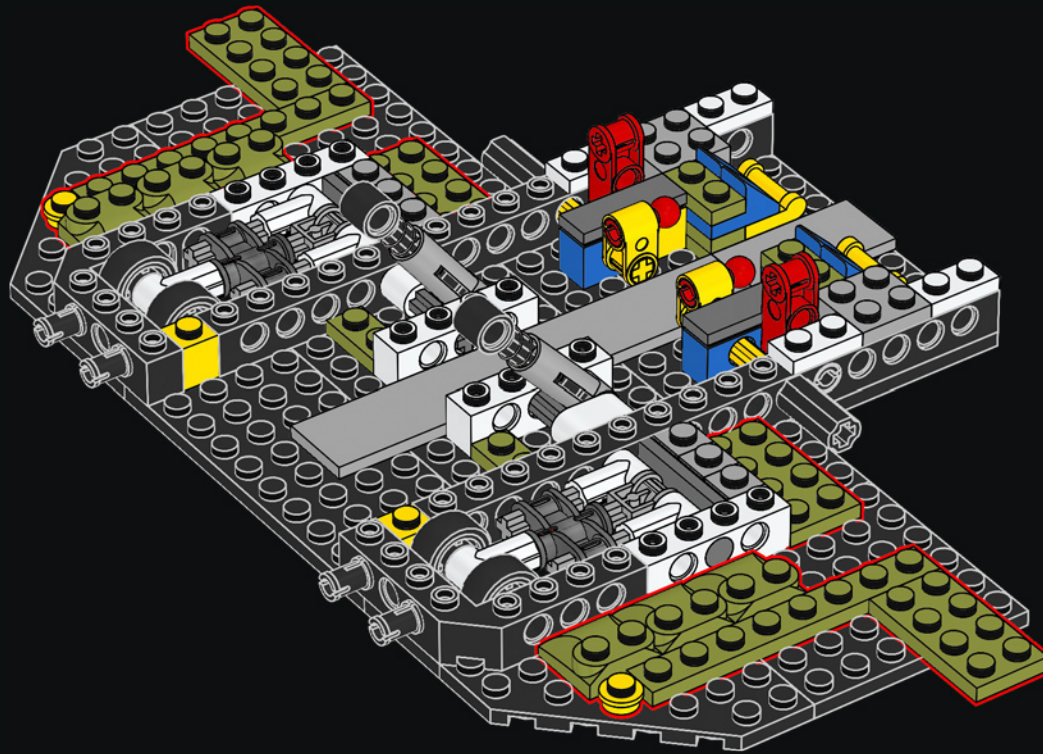


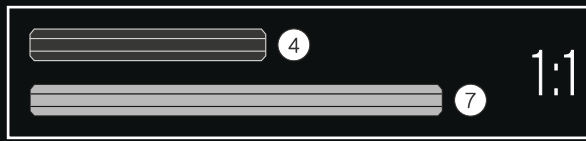
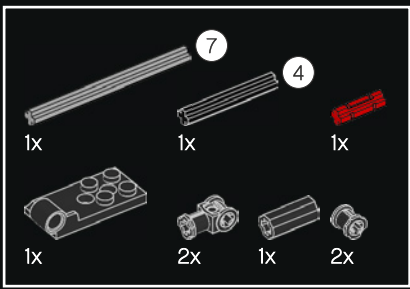
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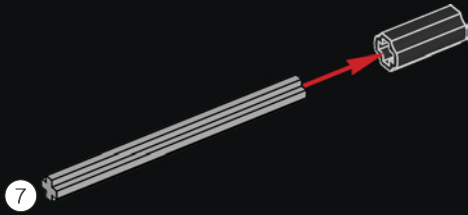
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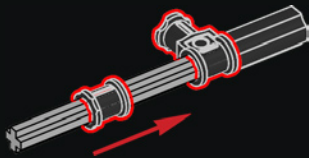


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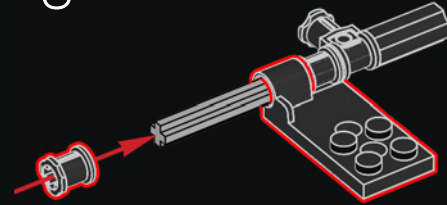
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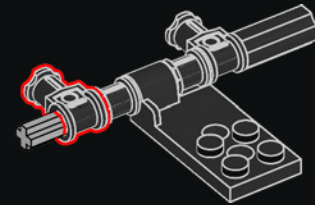
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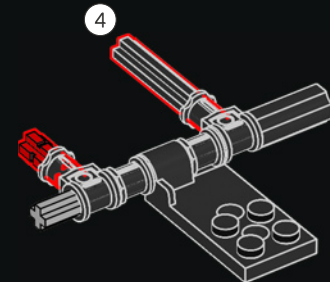
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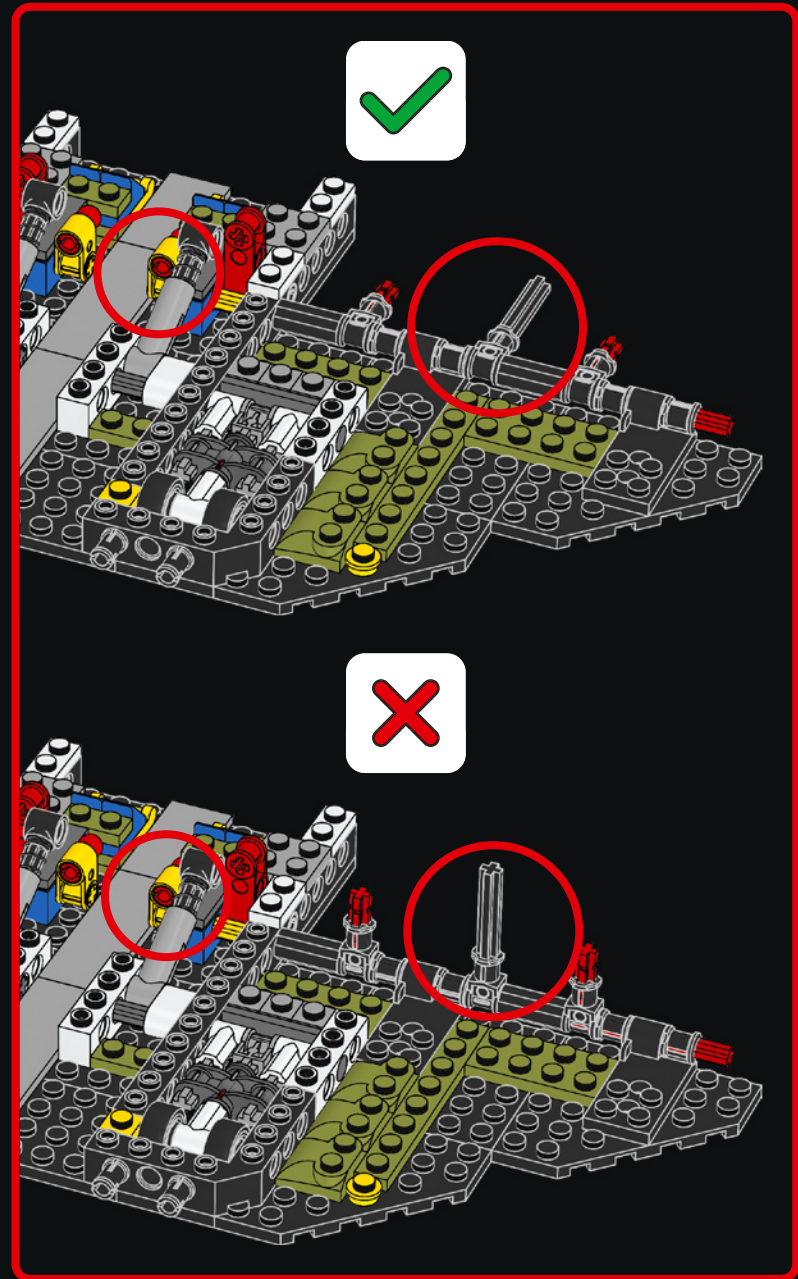
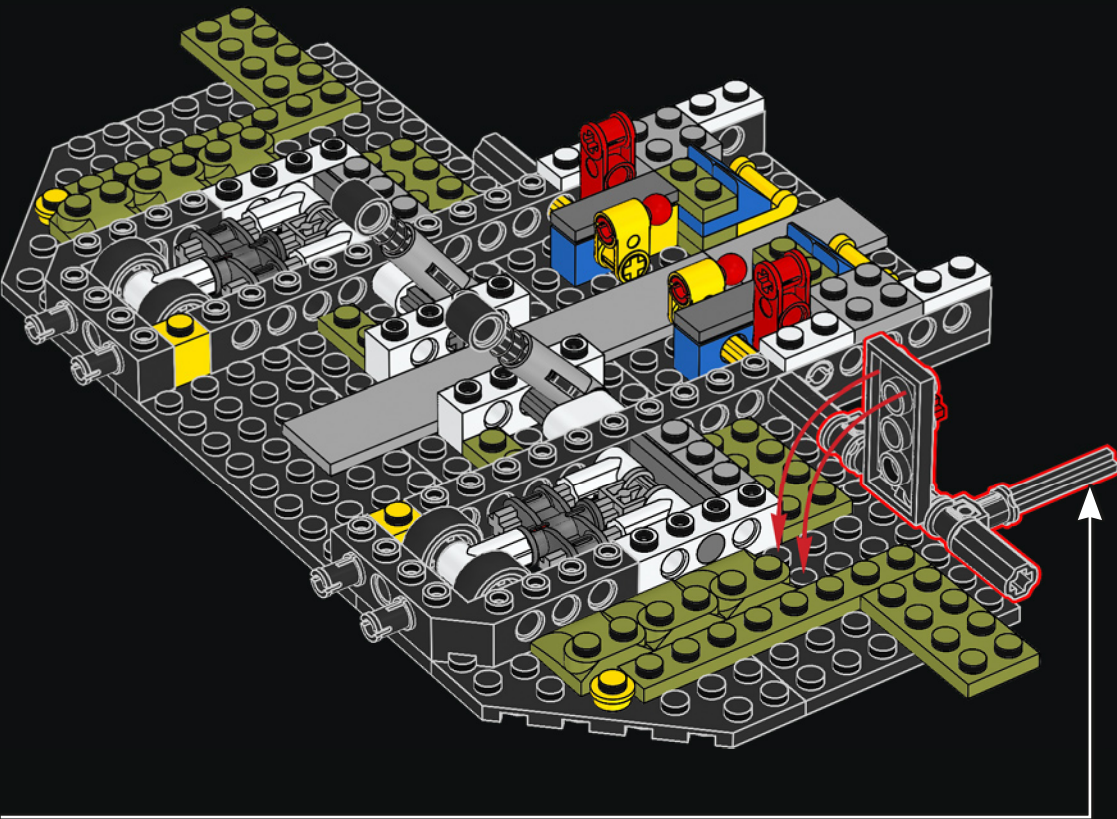


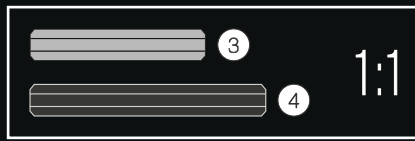
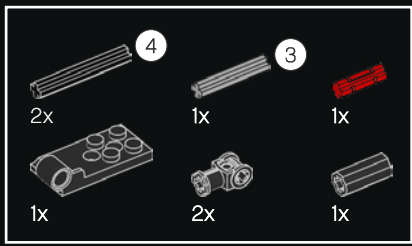
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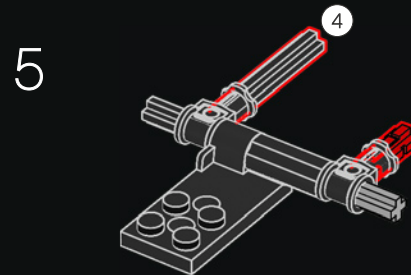
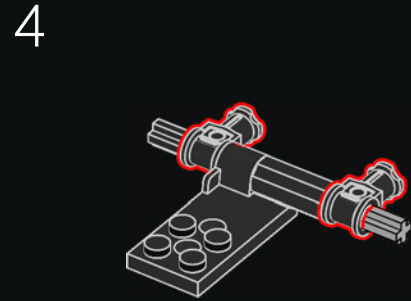
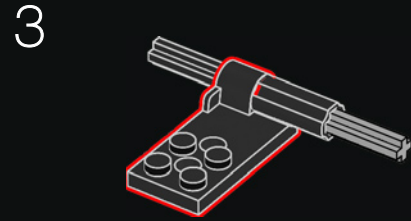
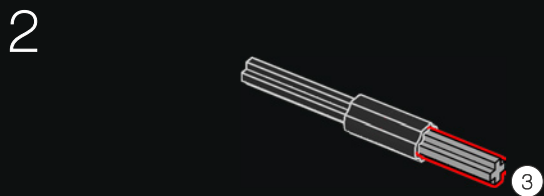
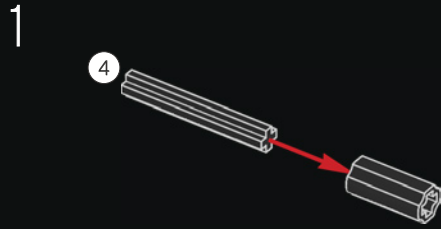
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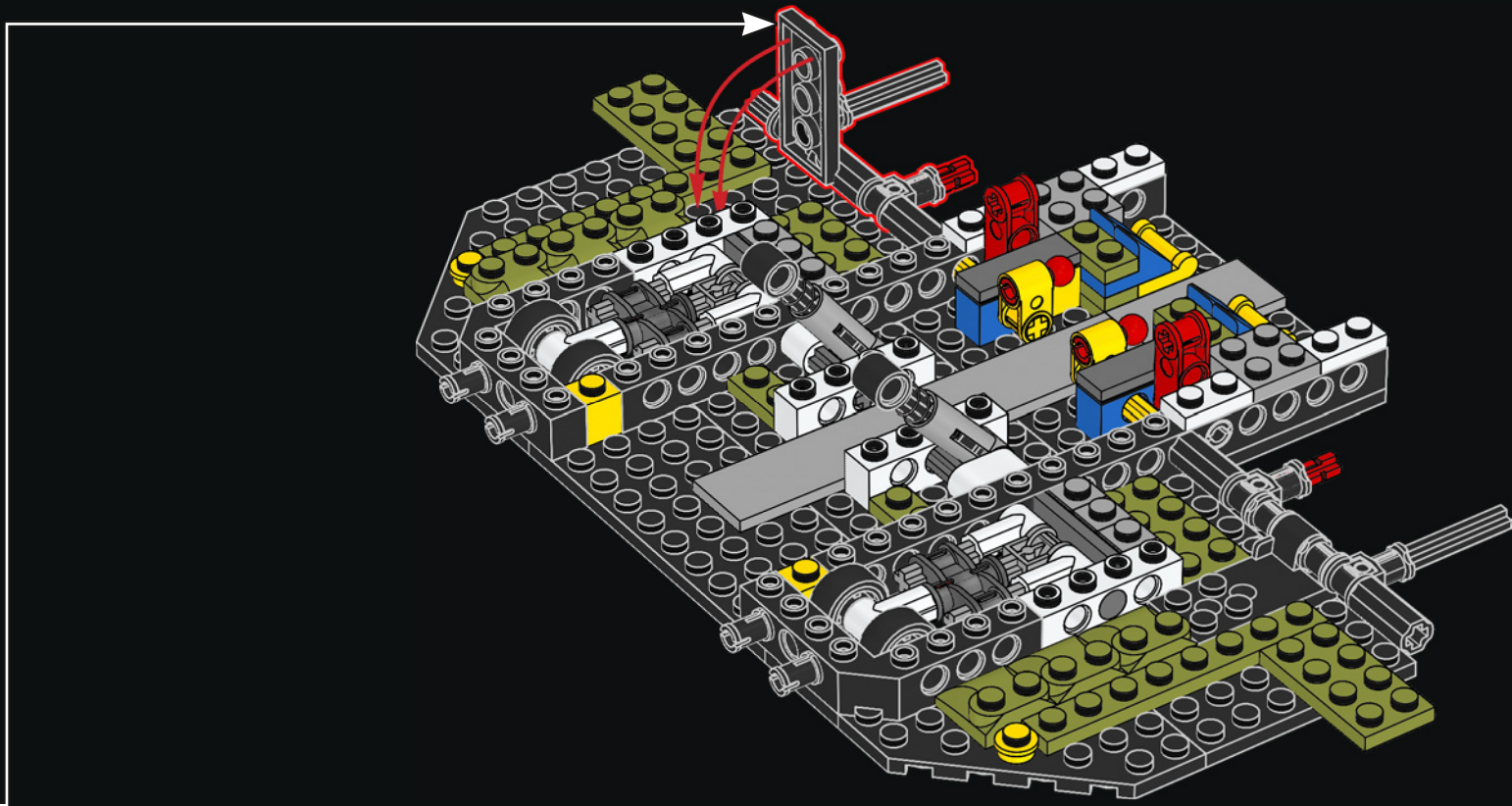


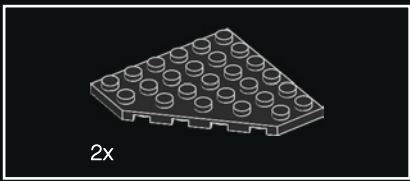




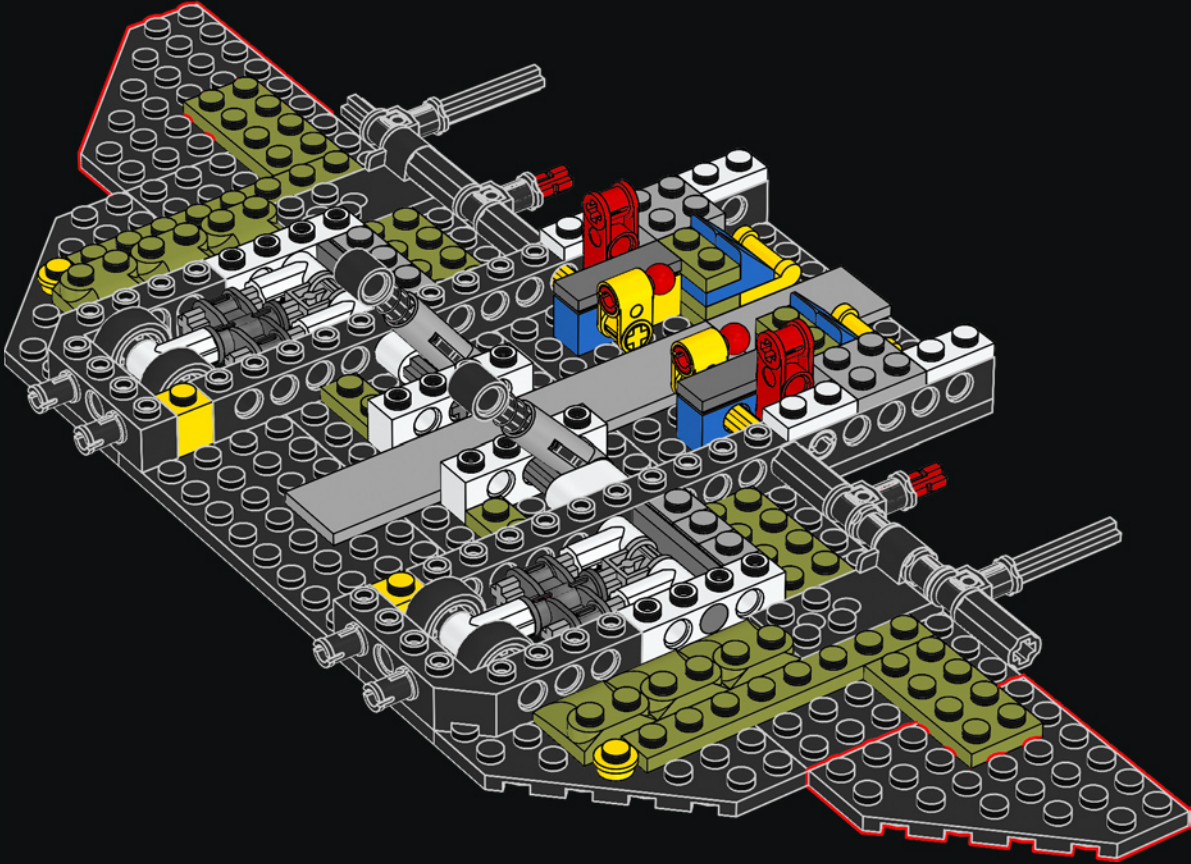
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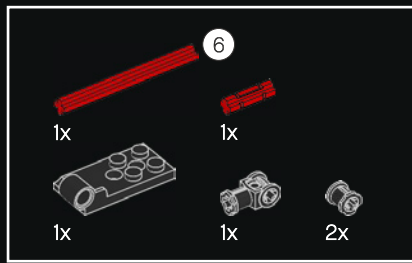




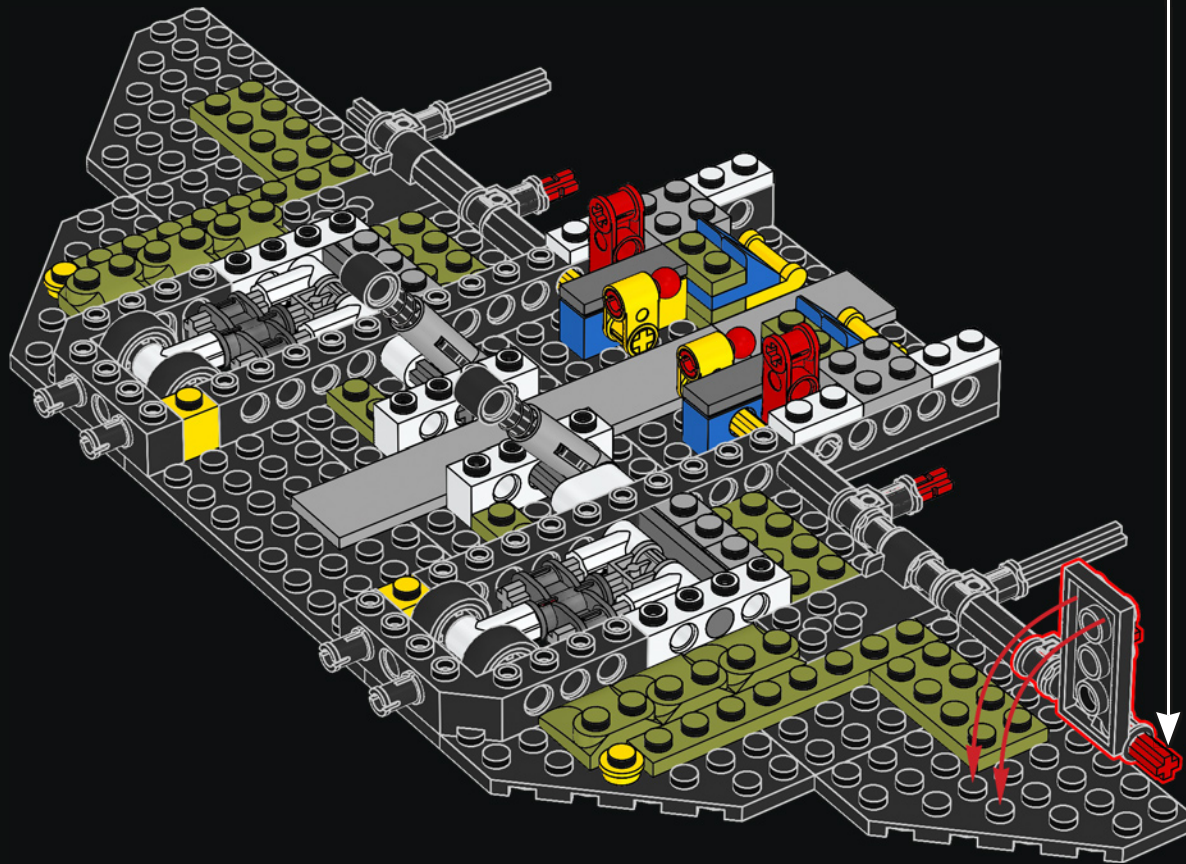
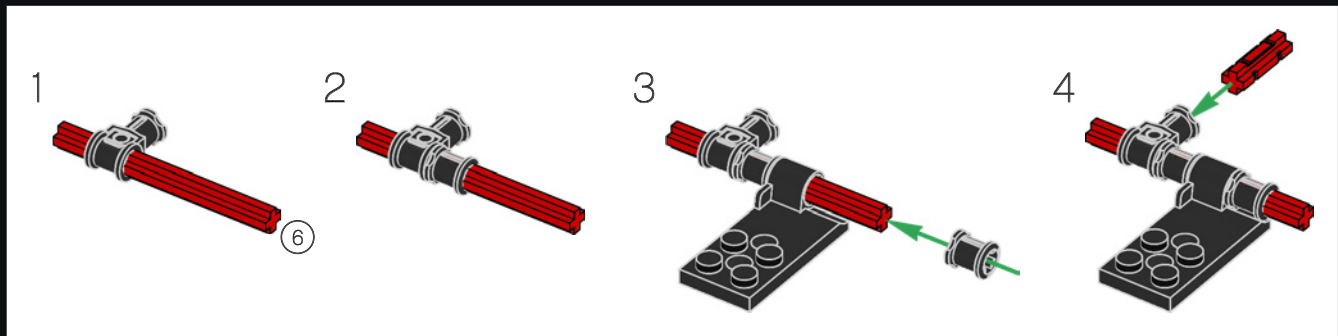


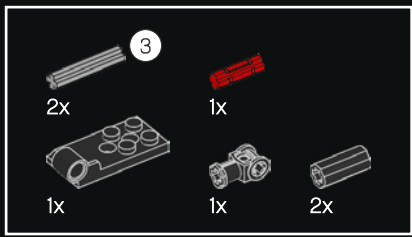
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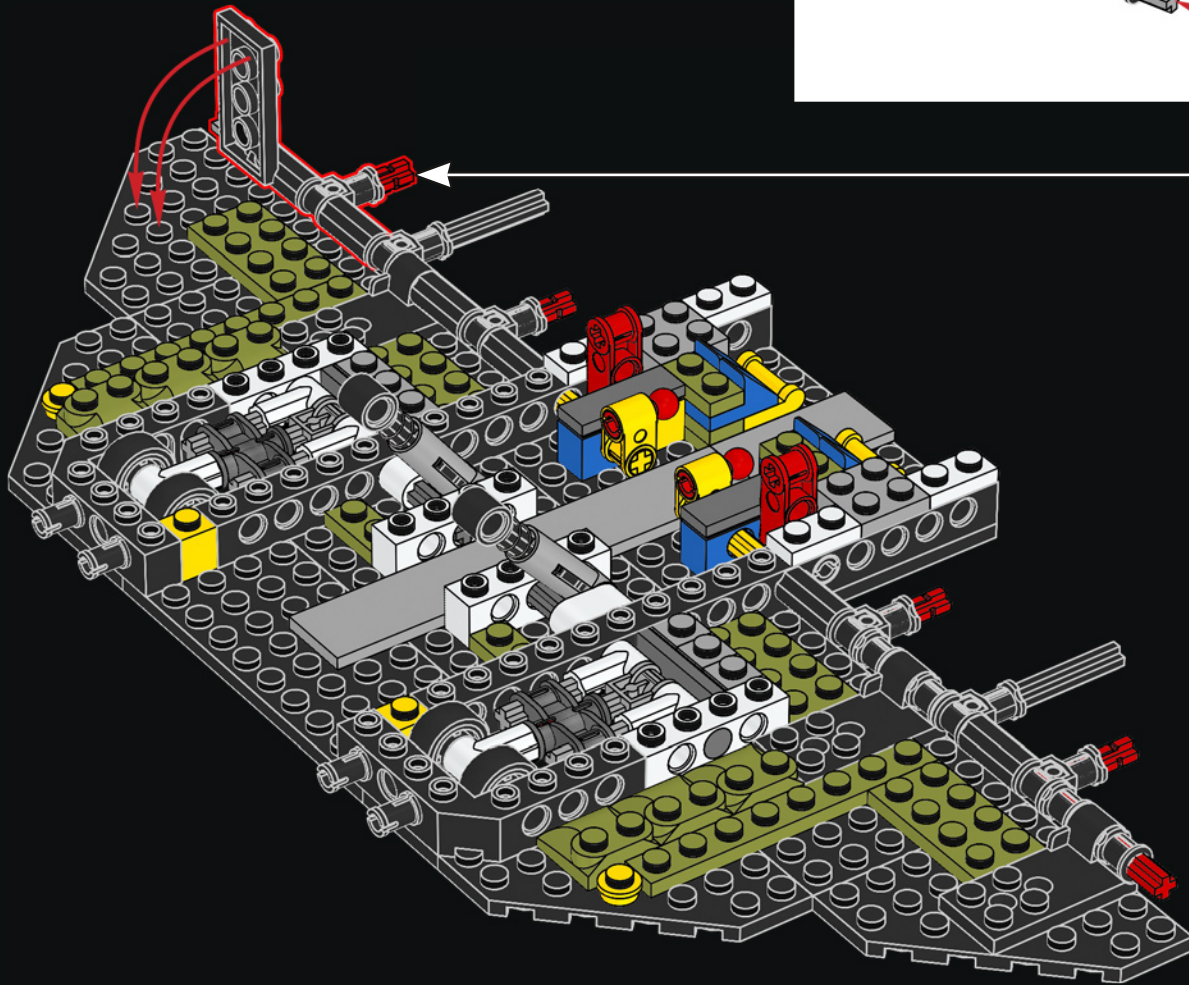
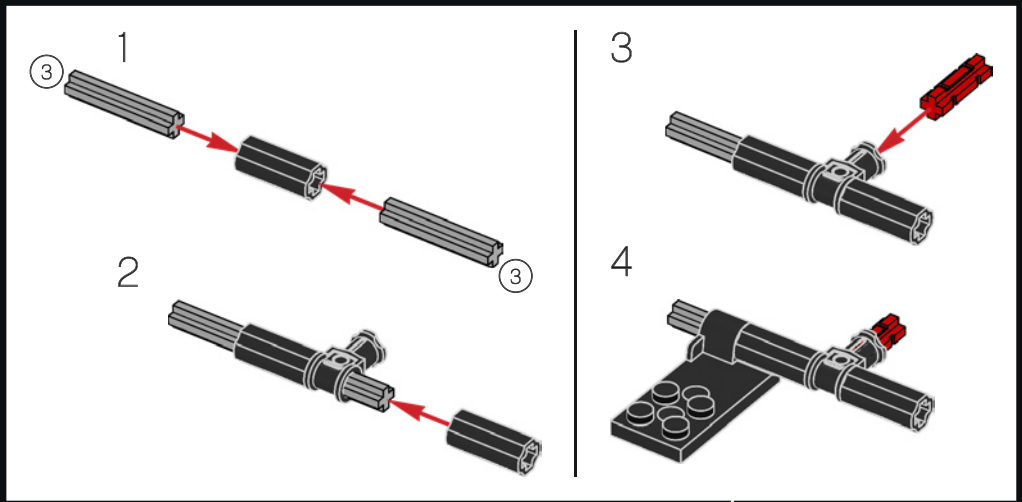


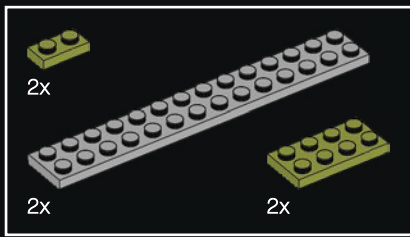
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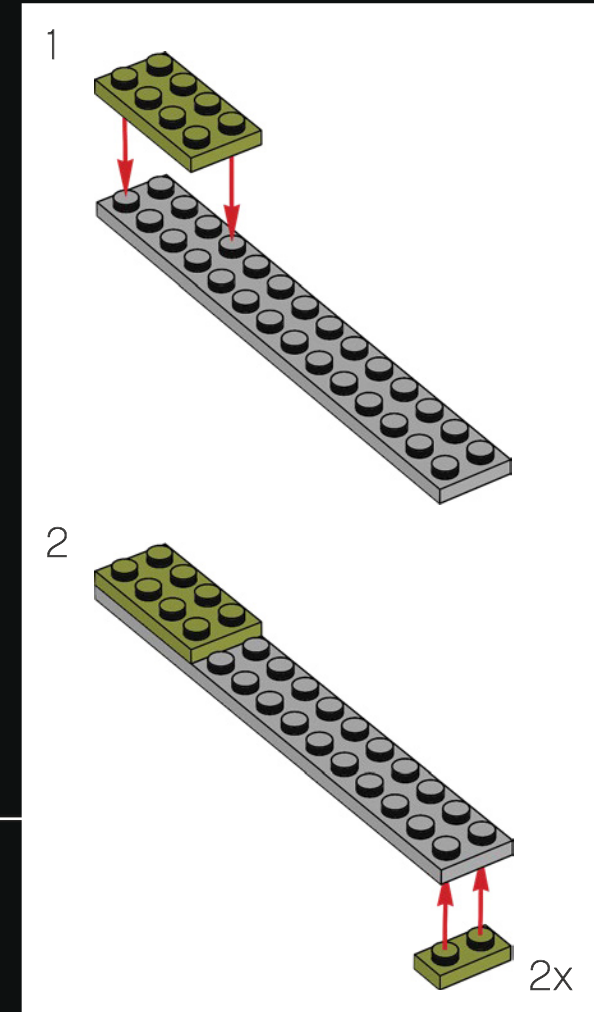
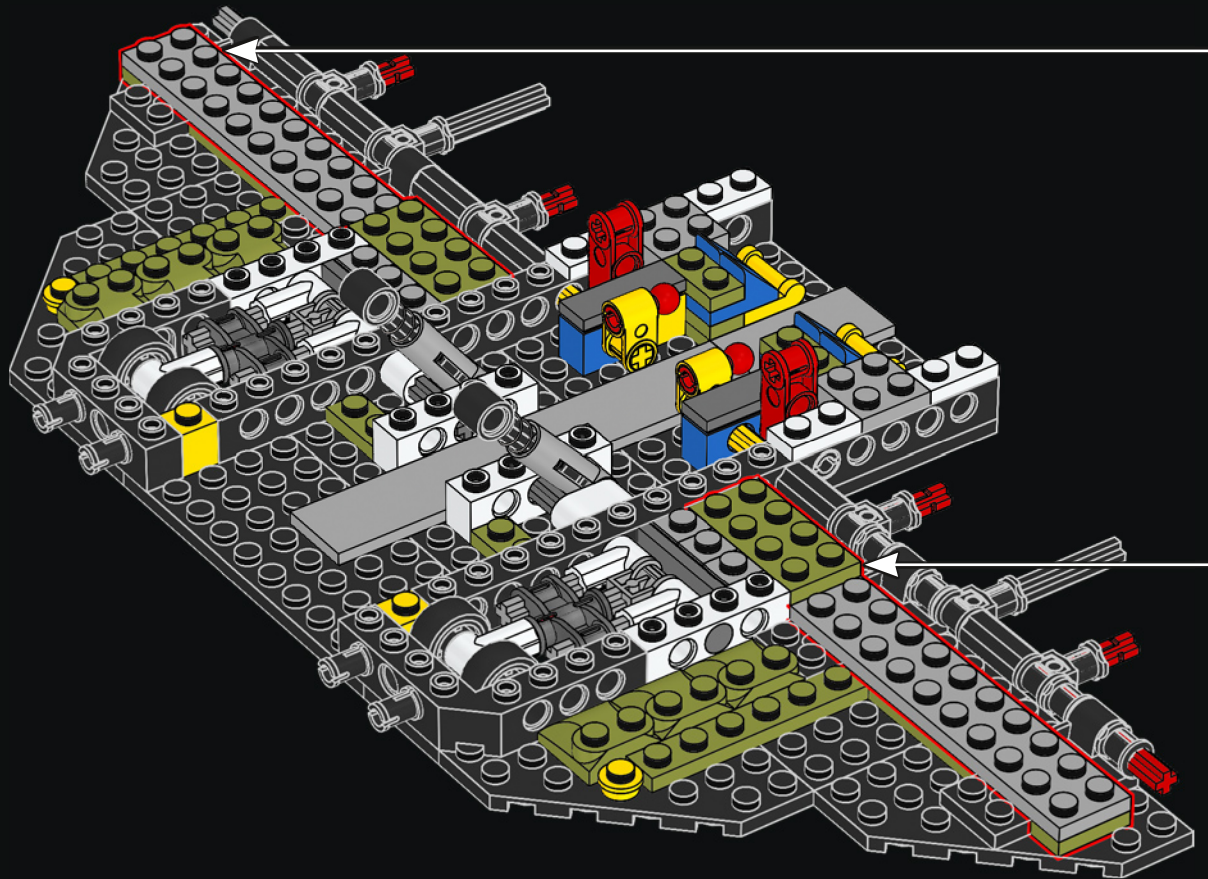


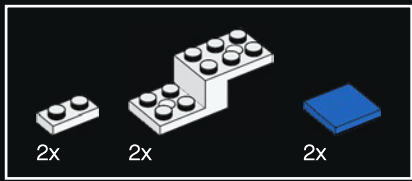
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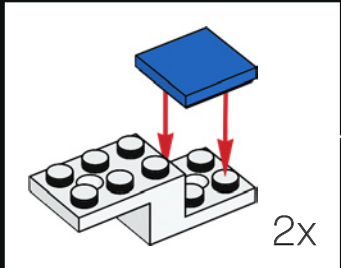
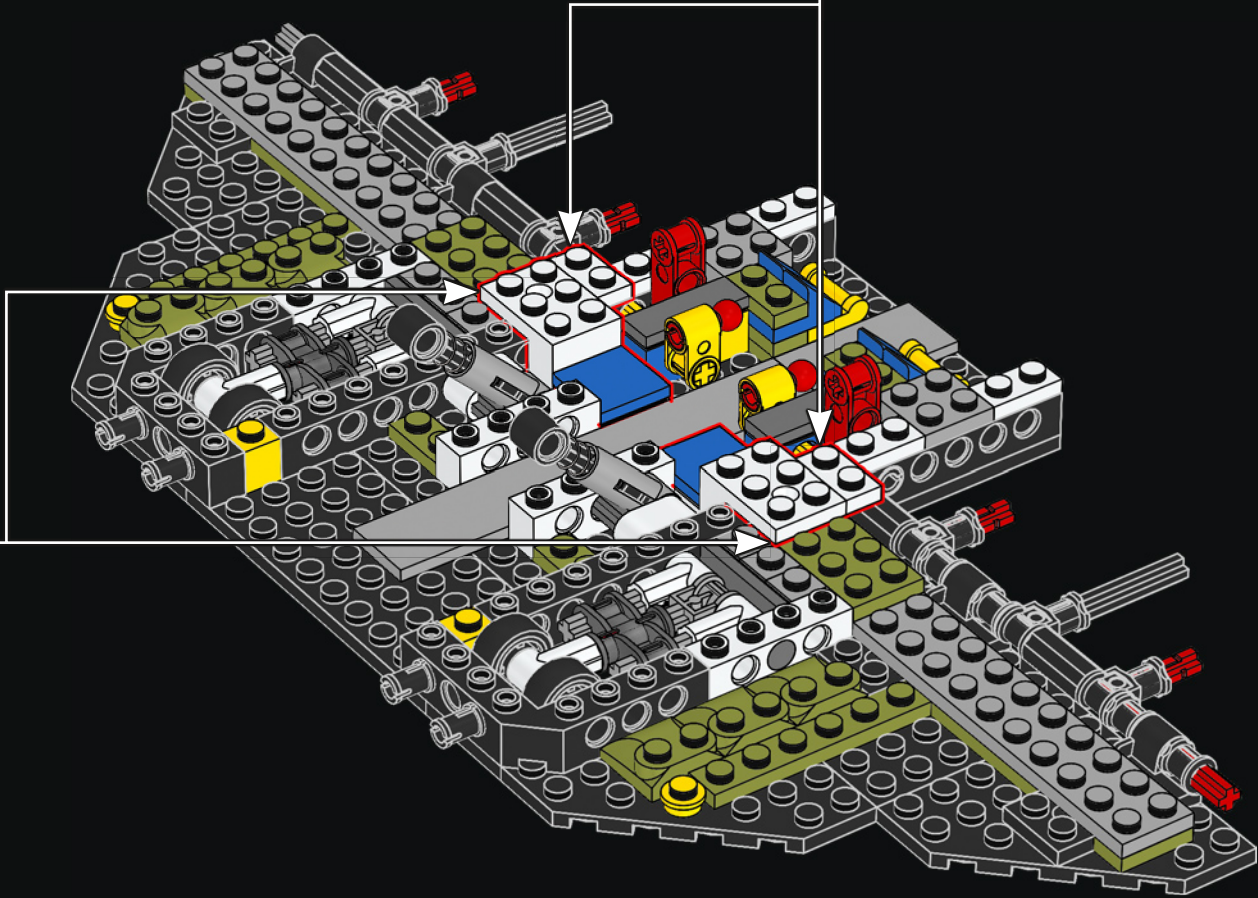
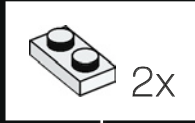


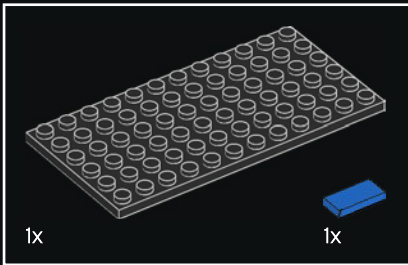
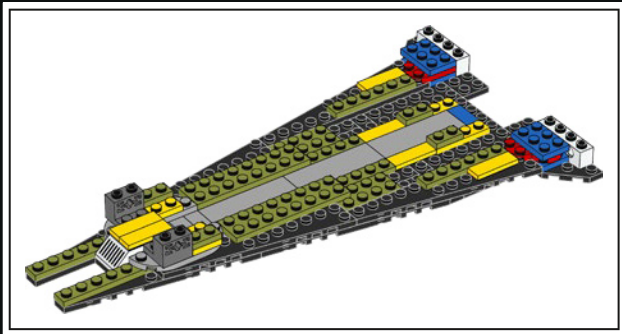
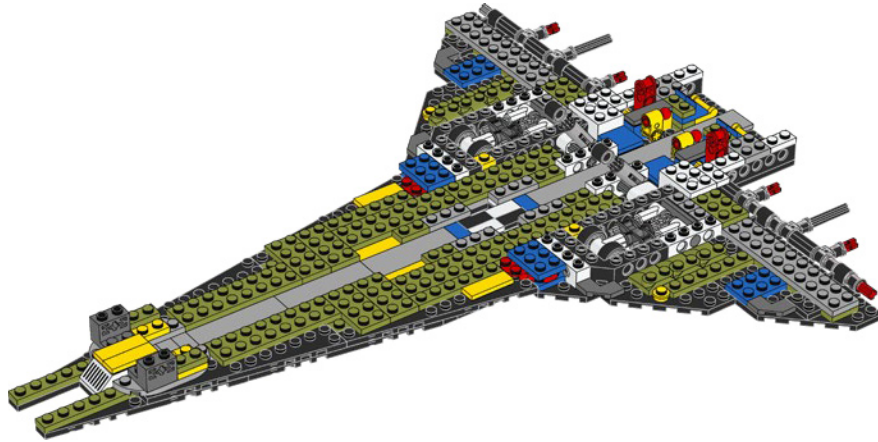
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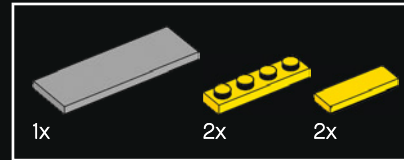
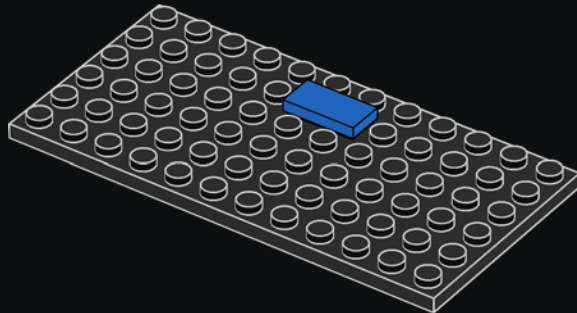


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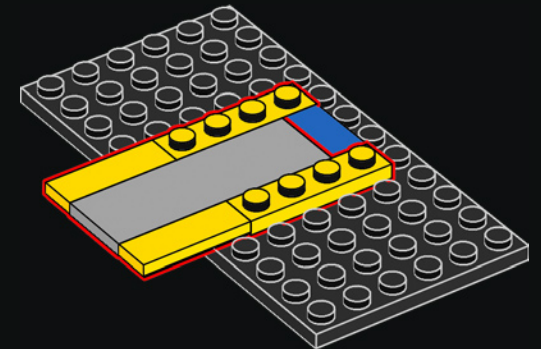


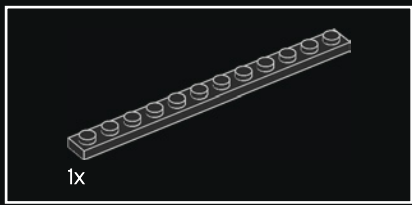


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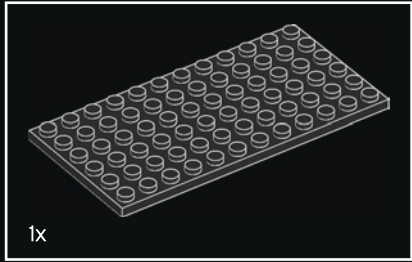
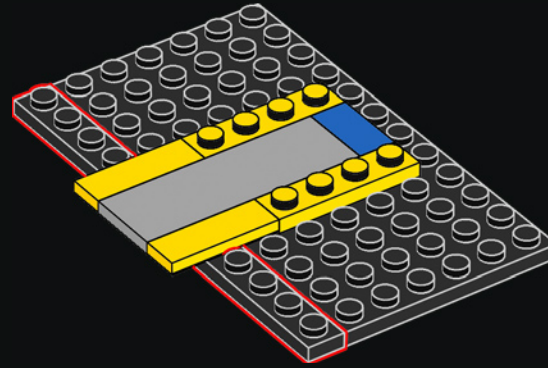


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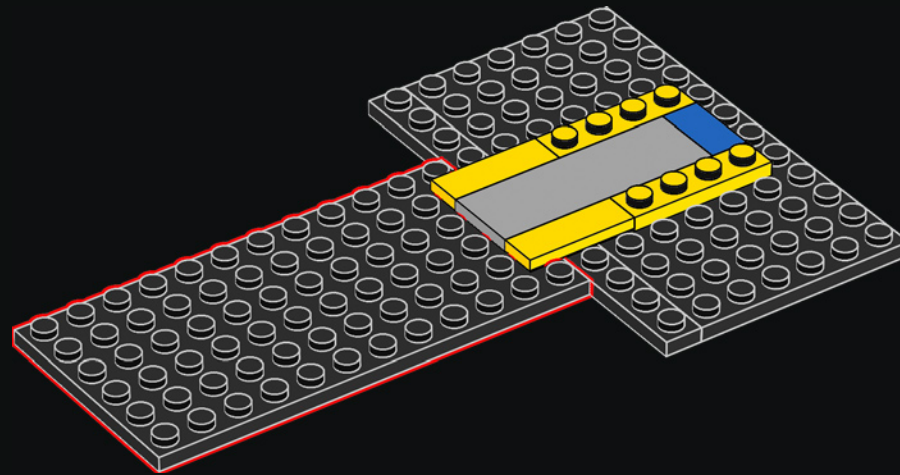


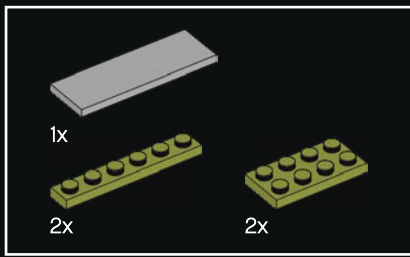


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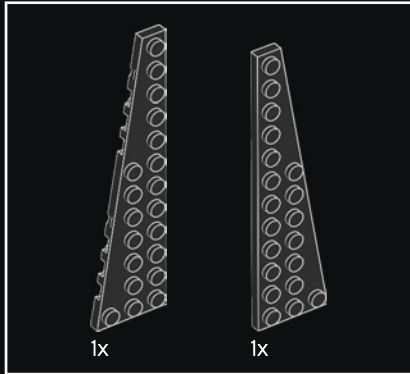
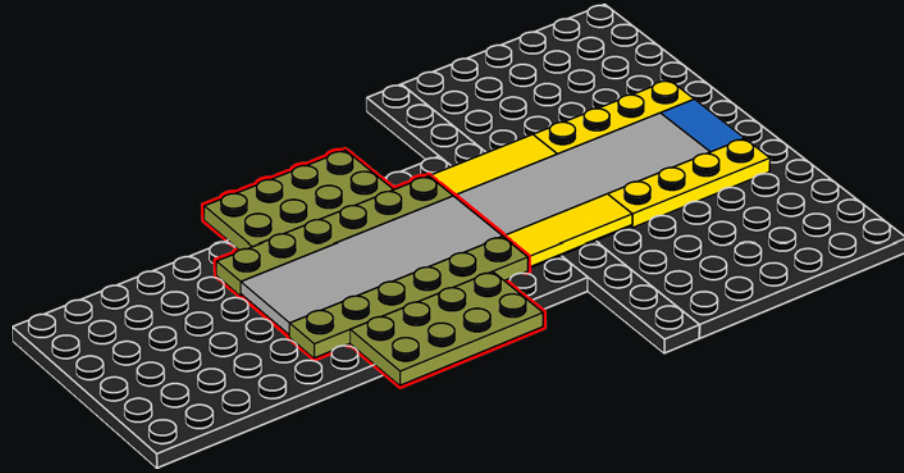


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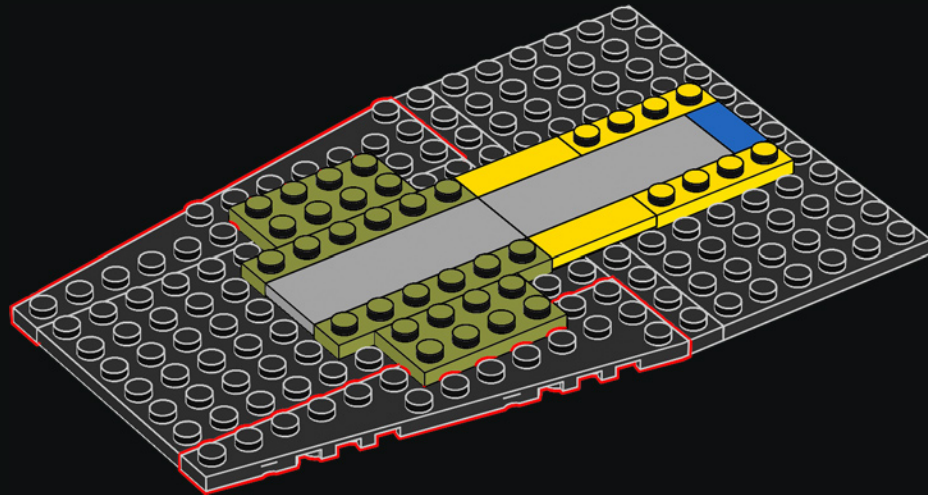


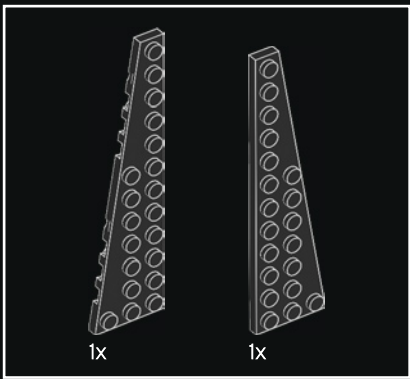


38



39

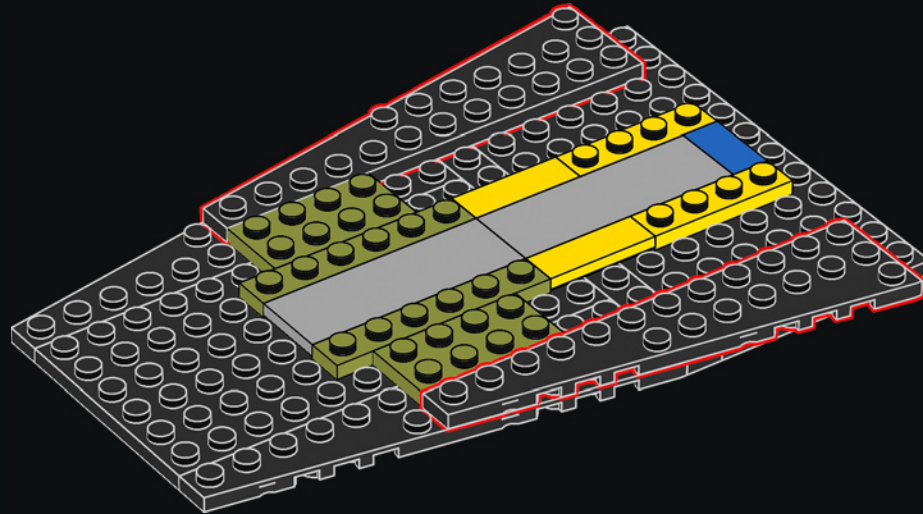


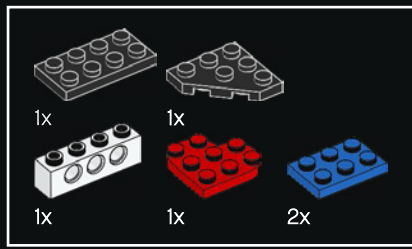


DID YOU KNOW?

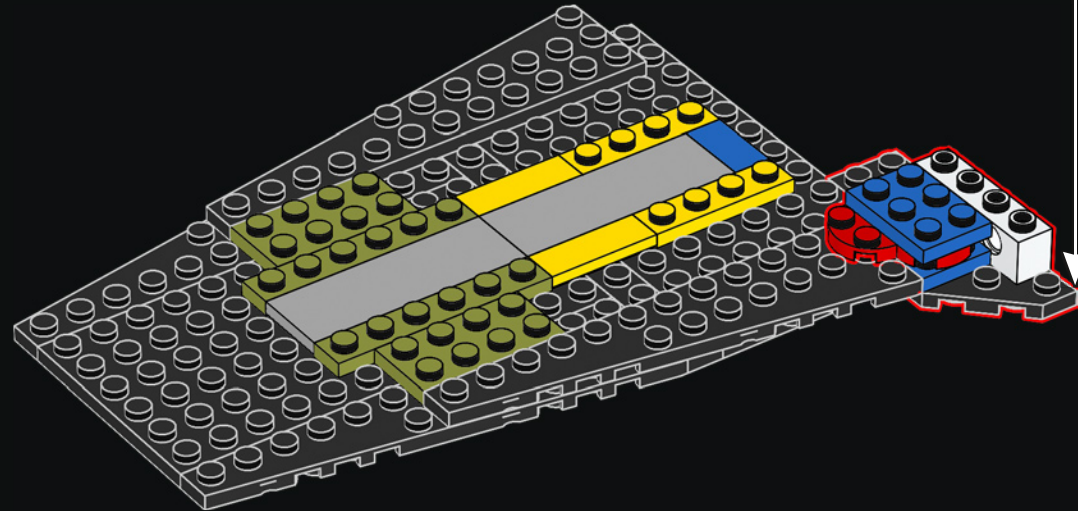
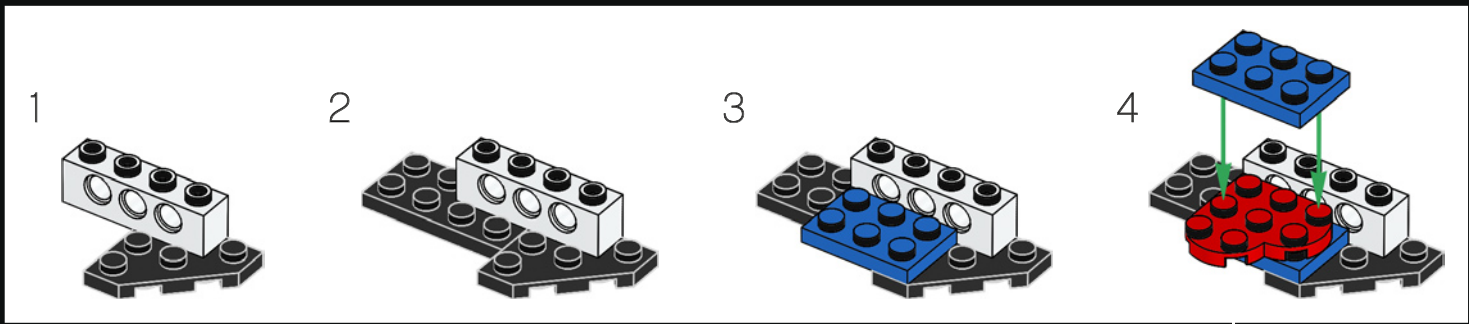
With an orbital velocity of 28,158 km/h (17,500 mph), the Space Shuttle crew travelled fast enough to see a sunrise or sunset every 45 minutes.

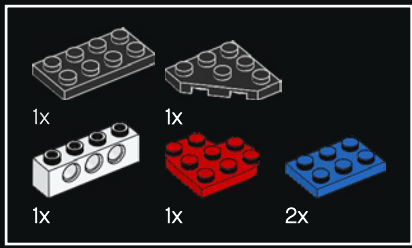
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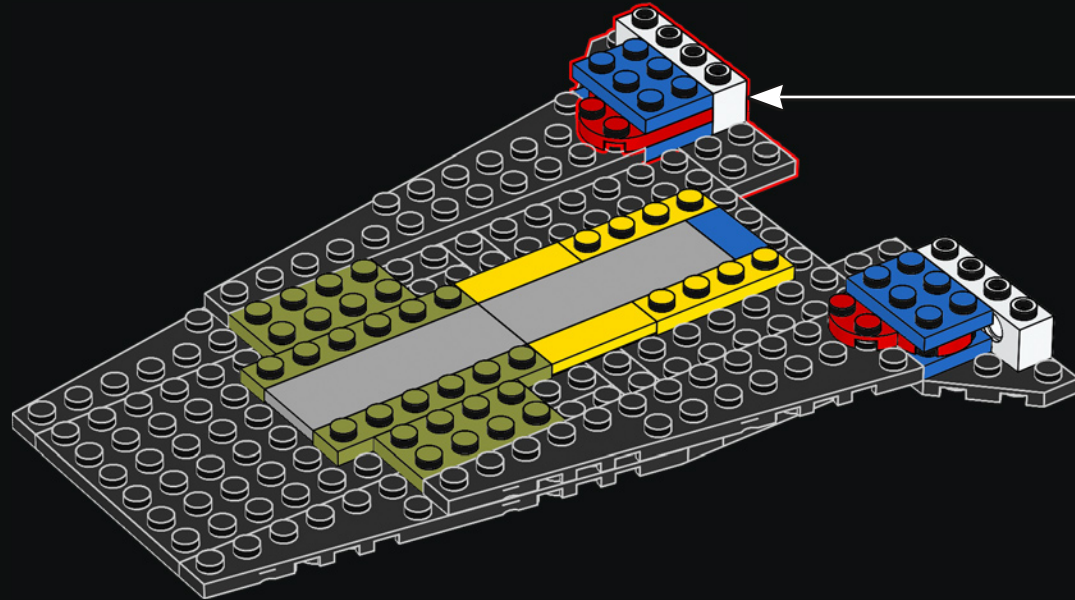
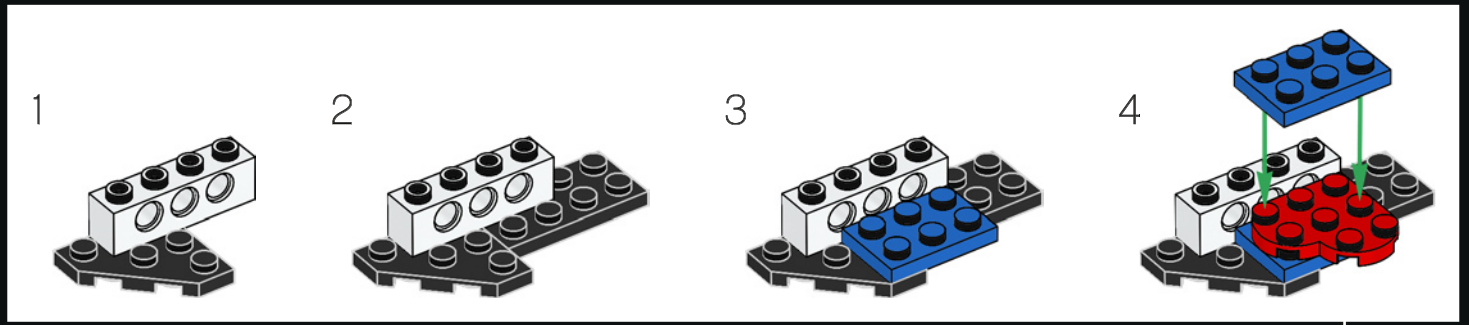


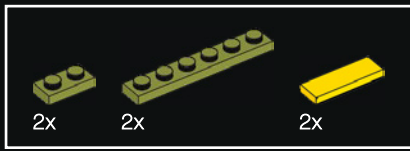
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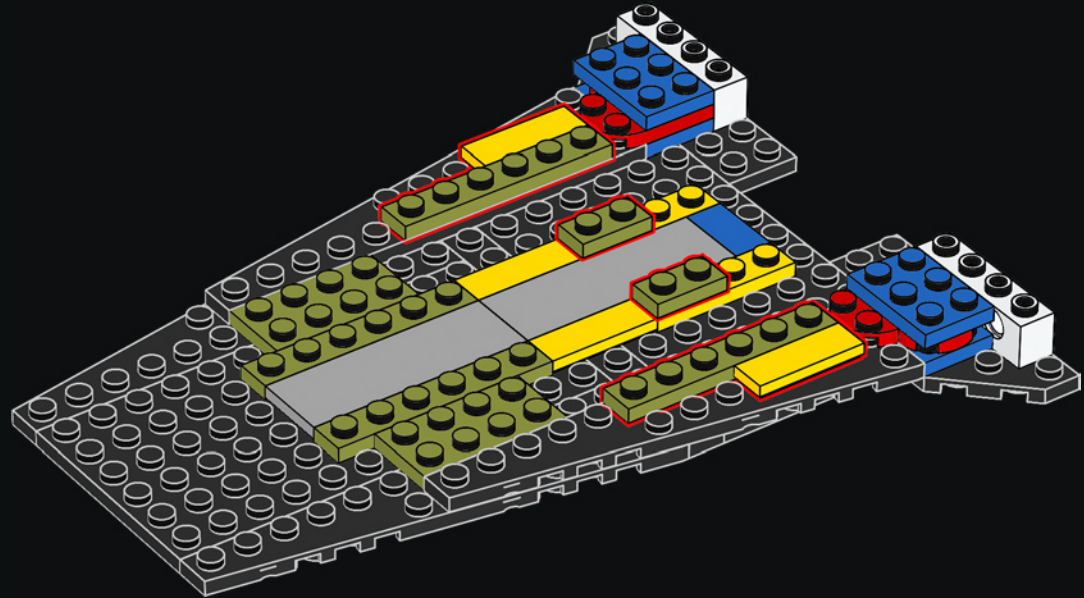


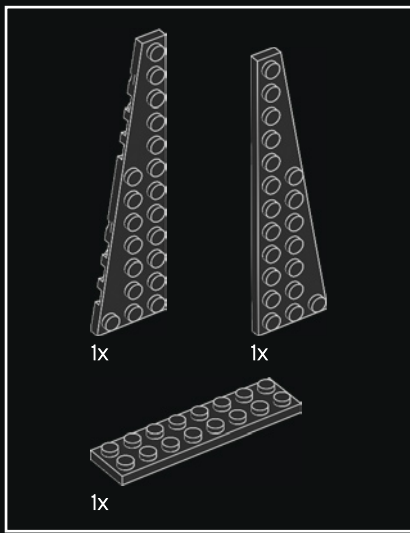
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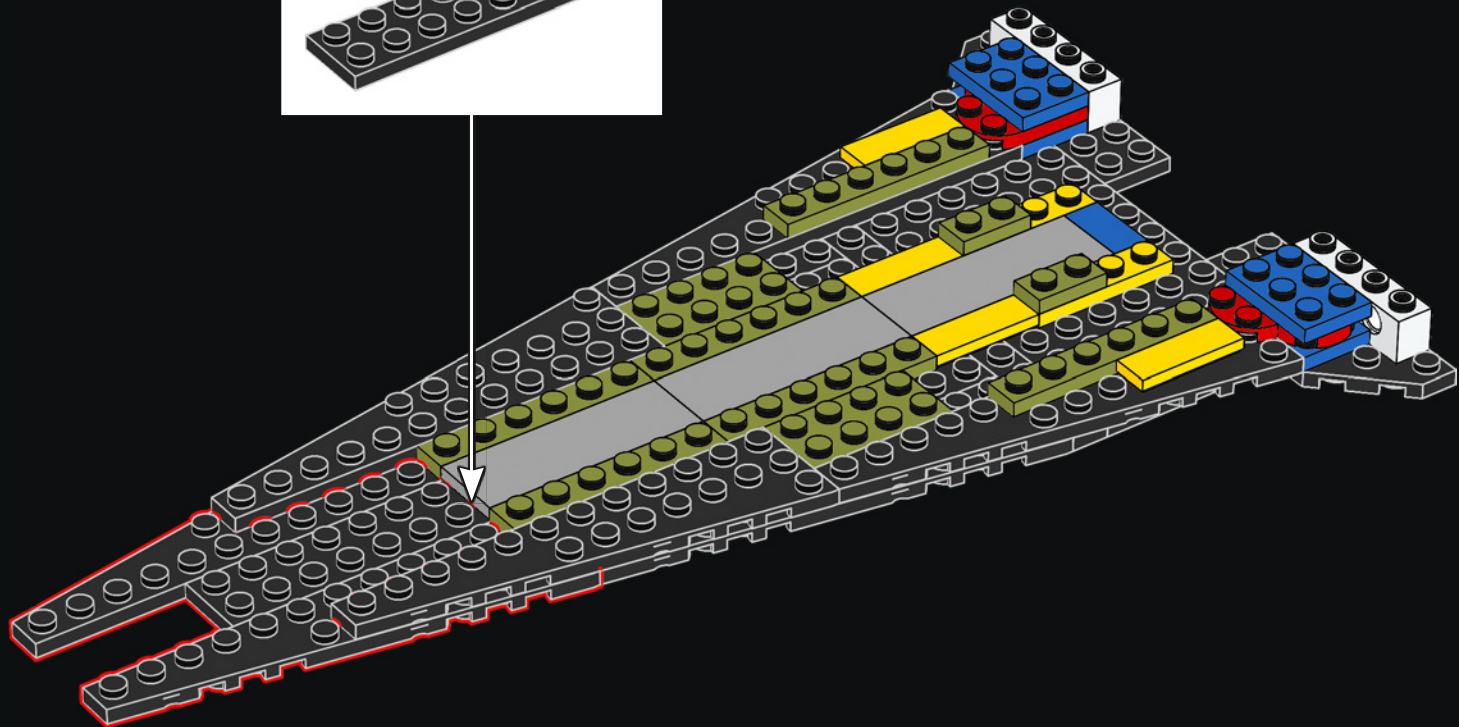
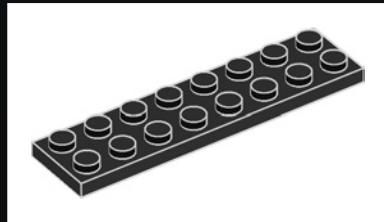


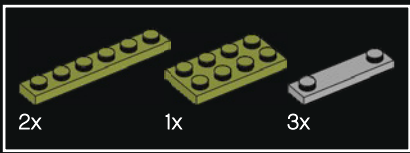
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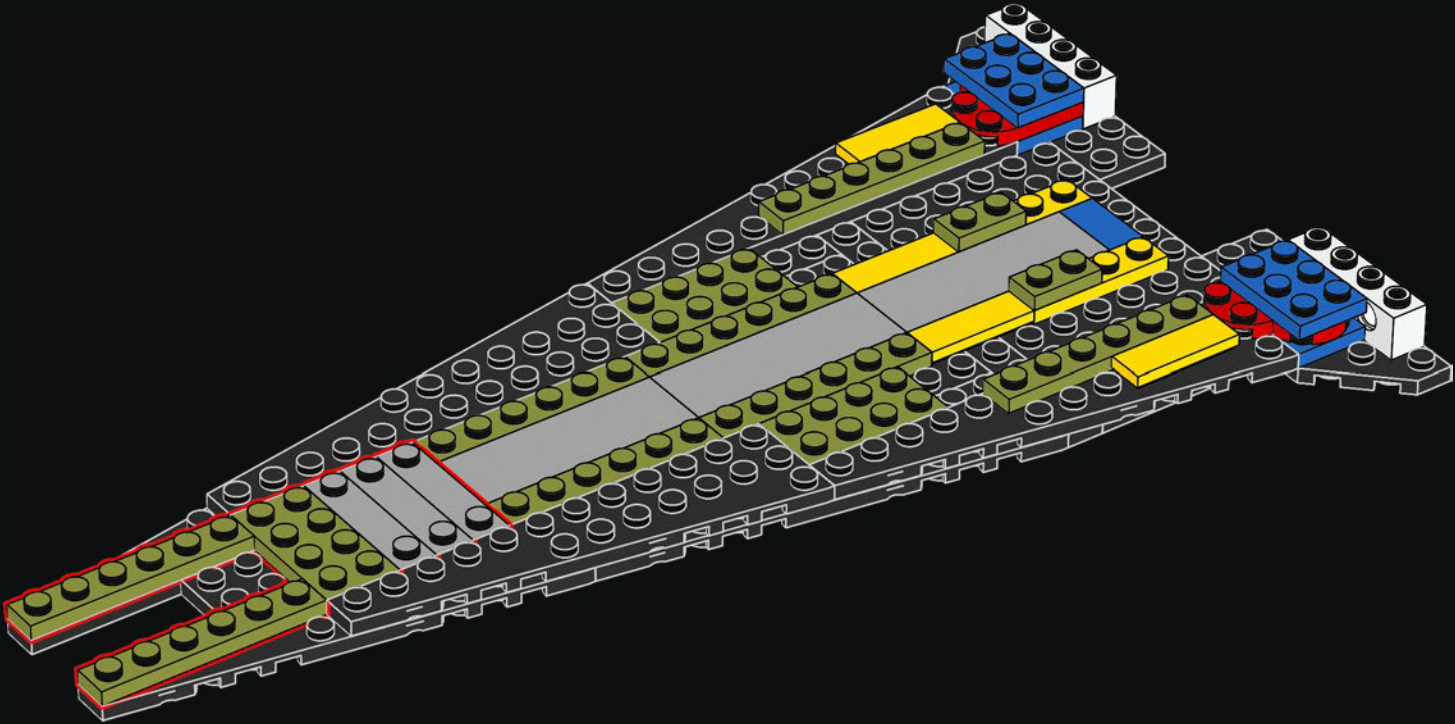


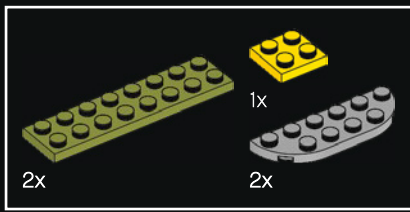
45



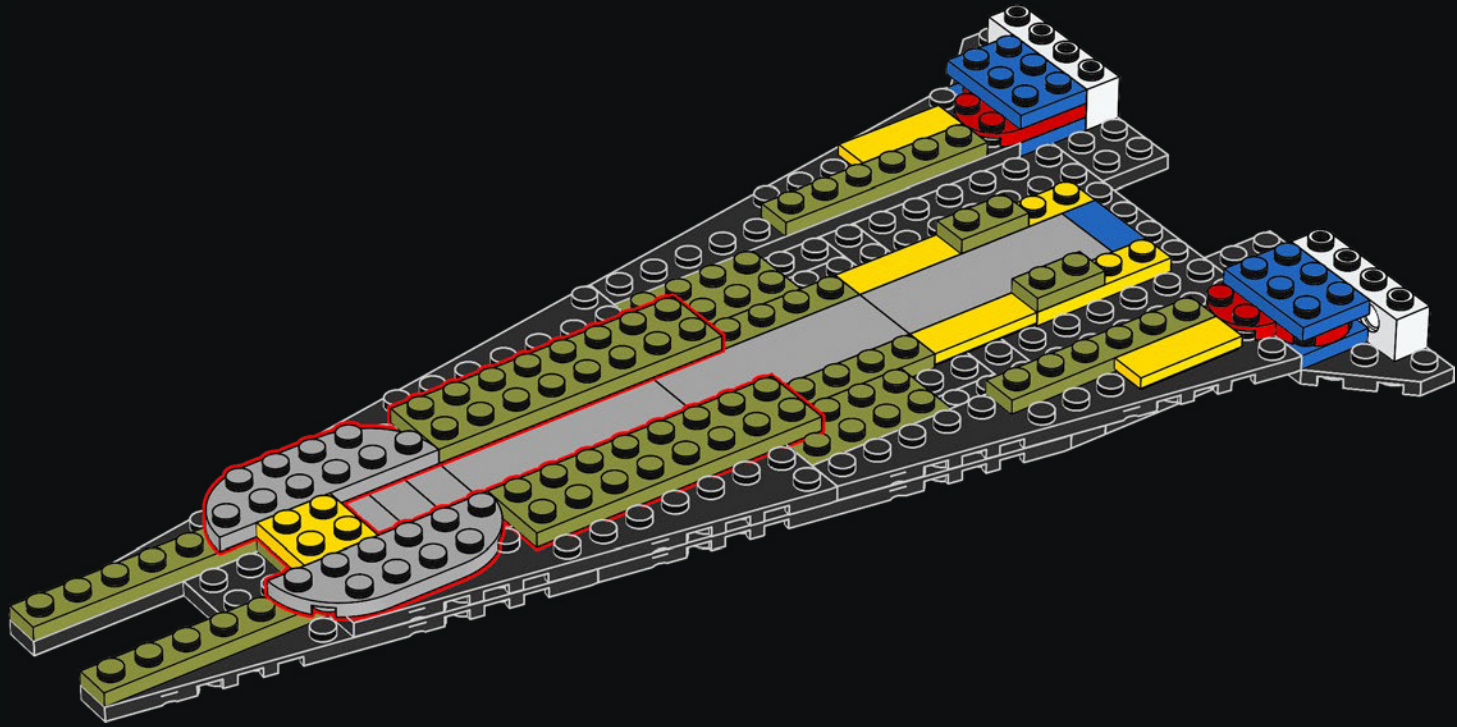


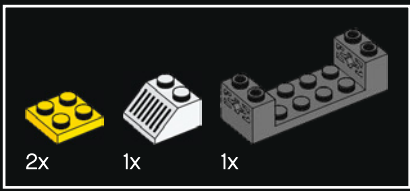
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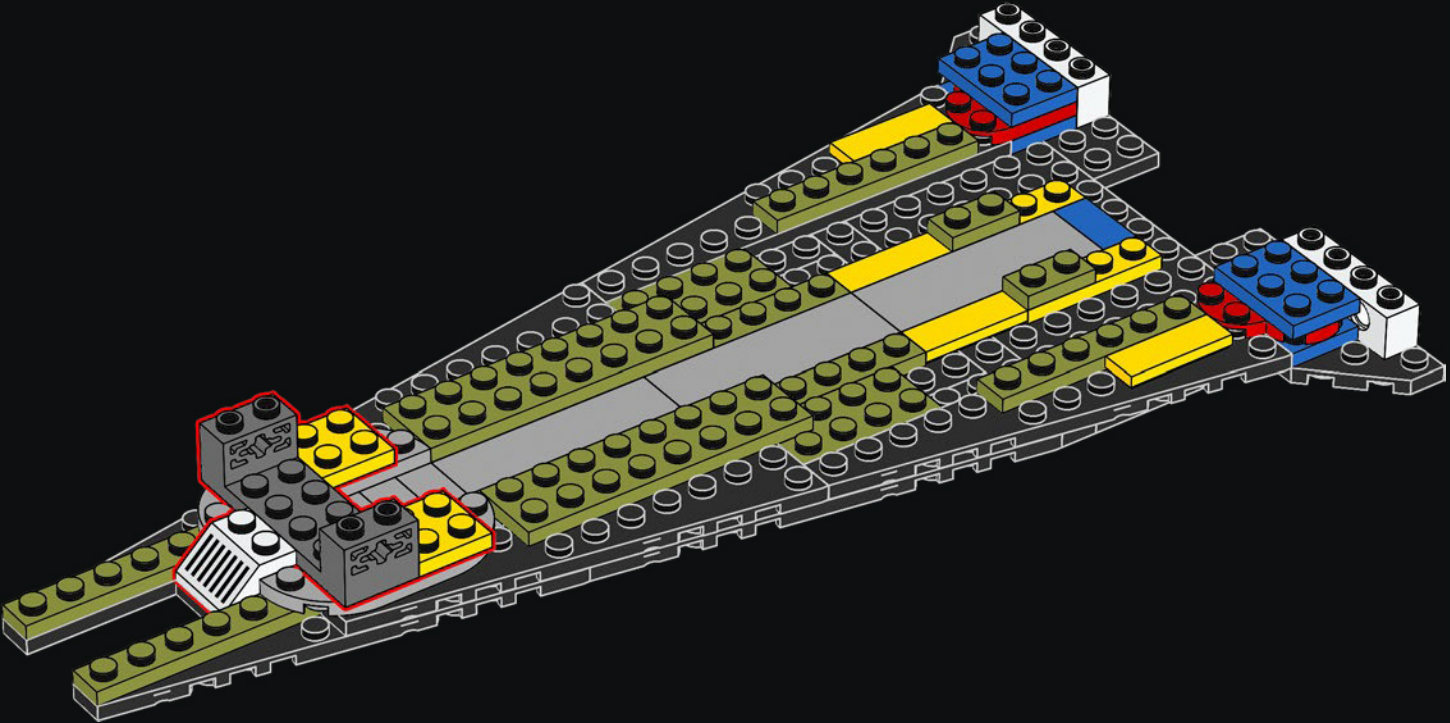


47



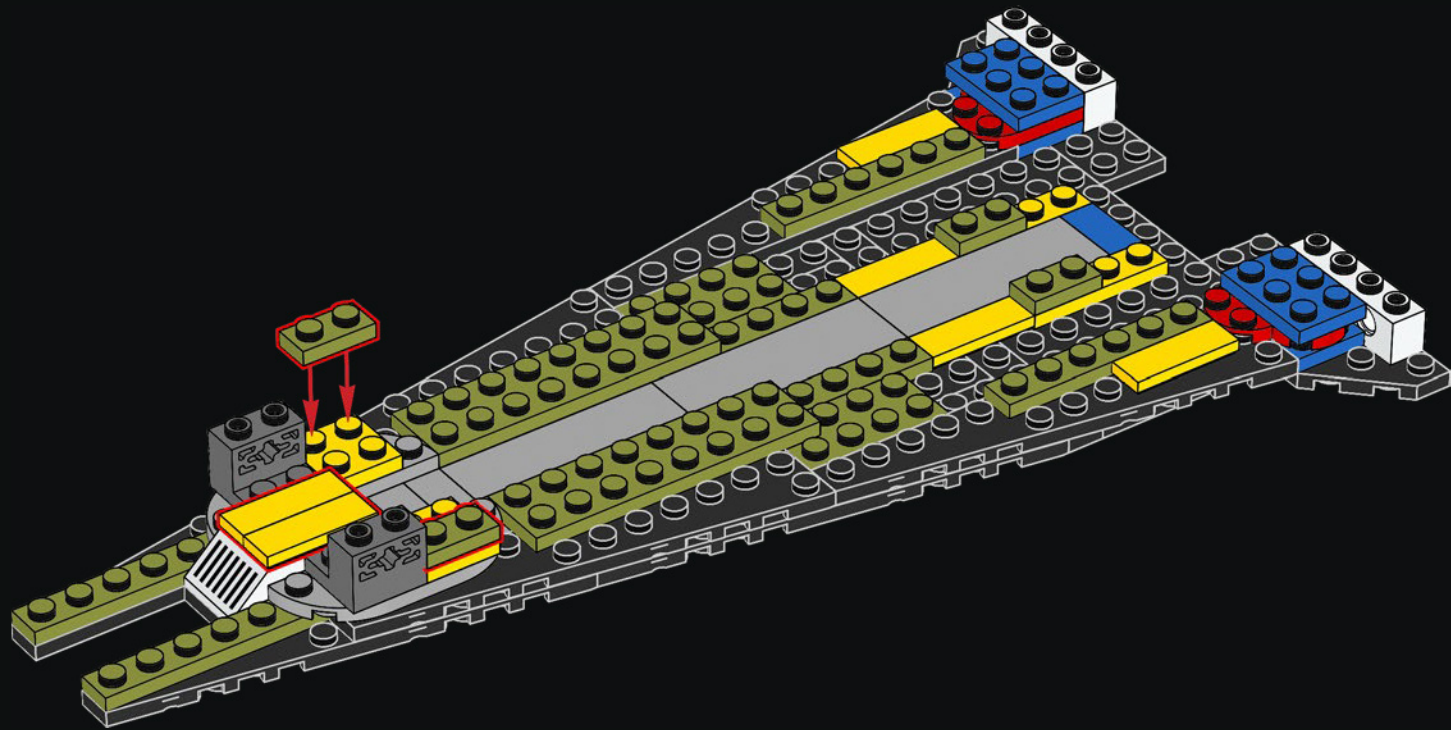


48

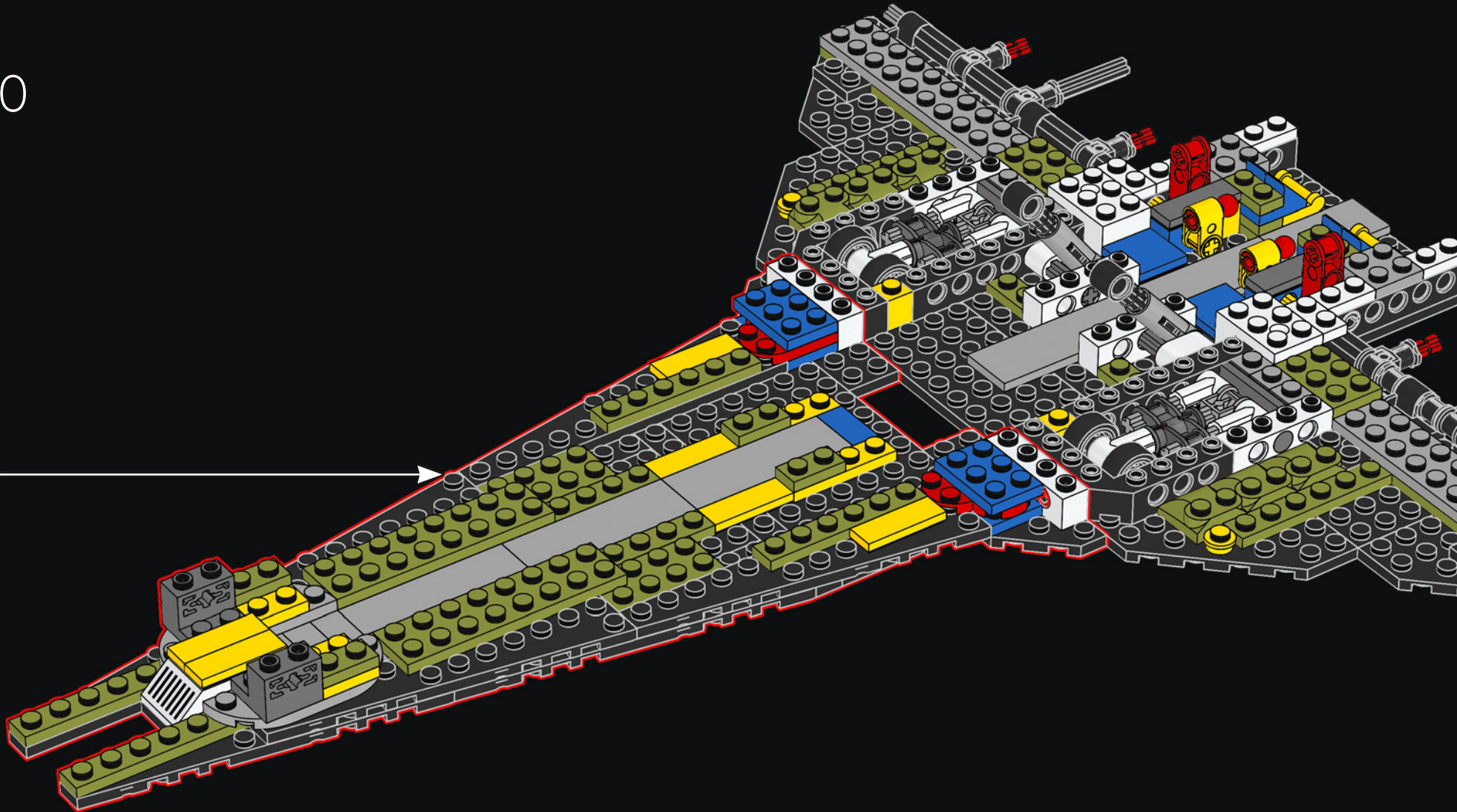


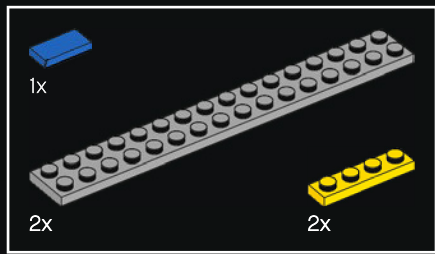


49

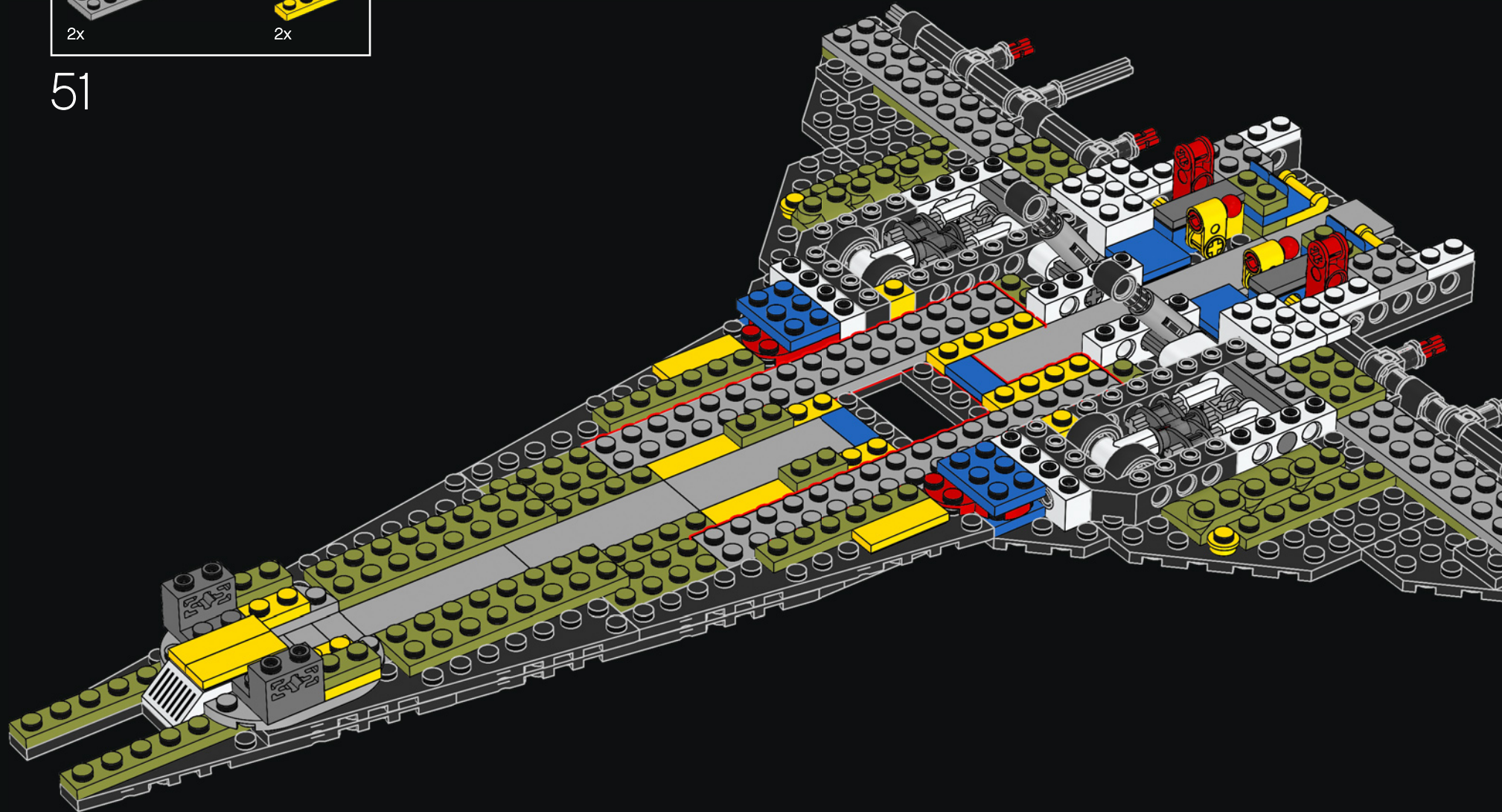


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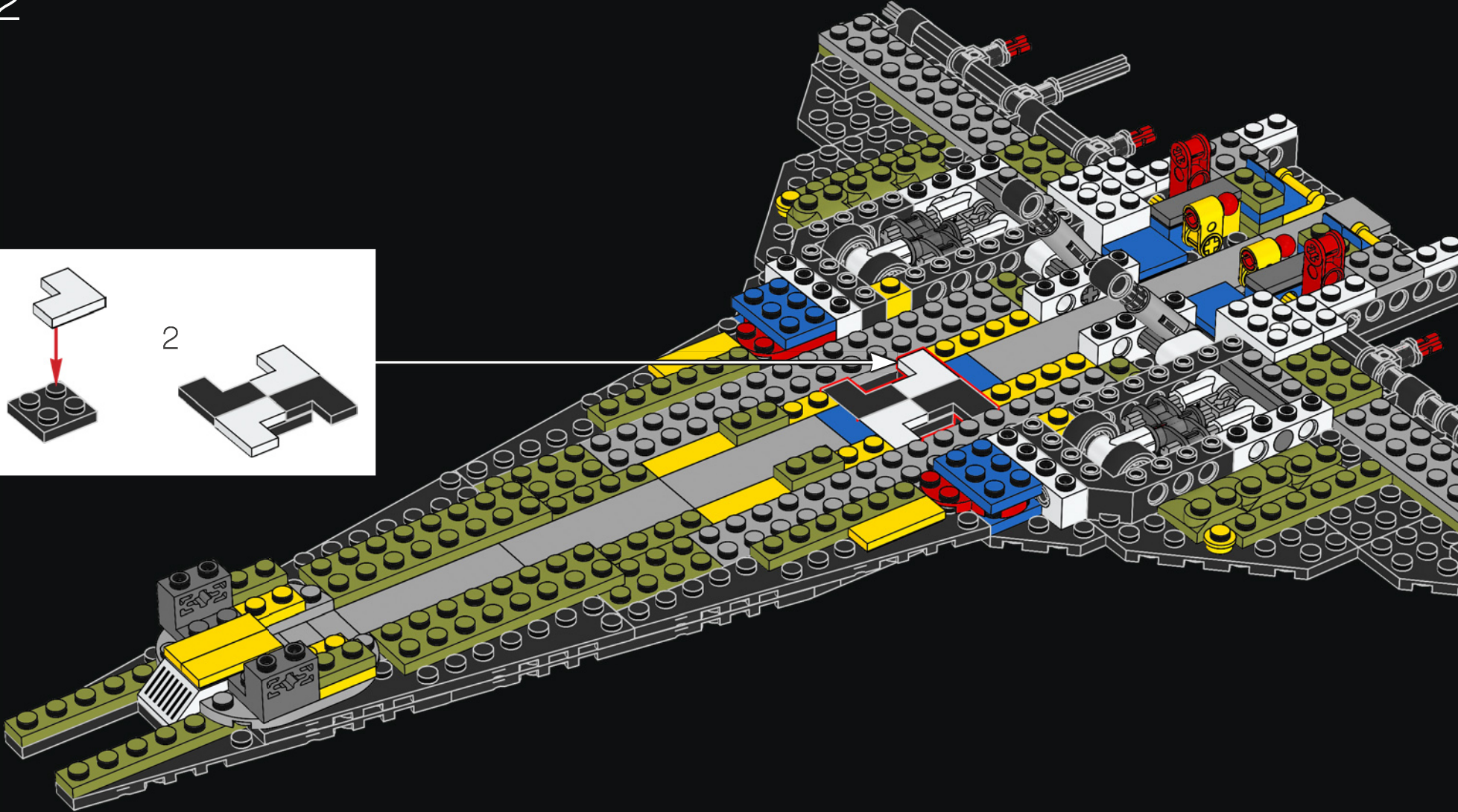
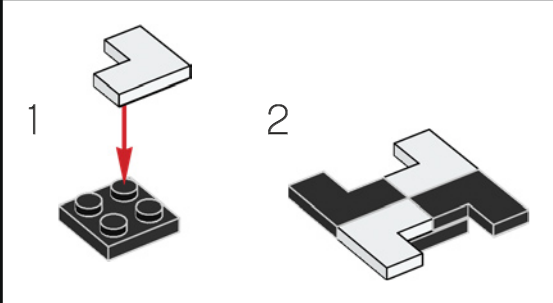


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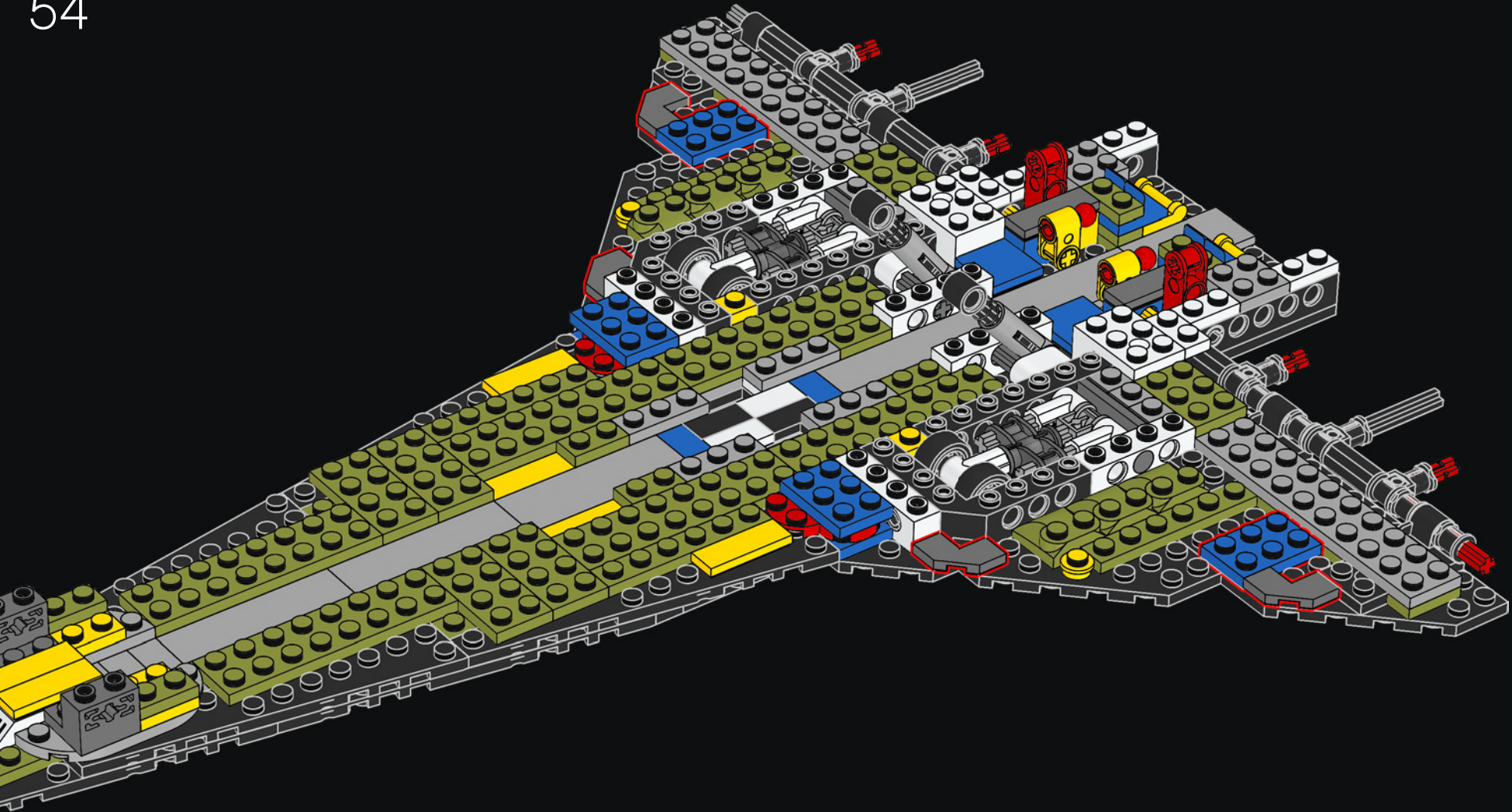


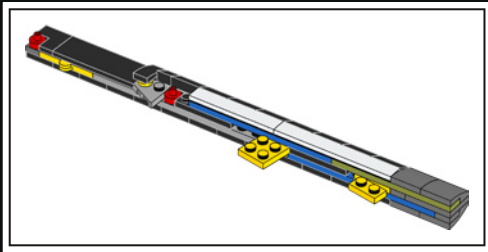
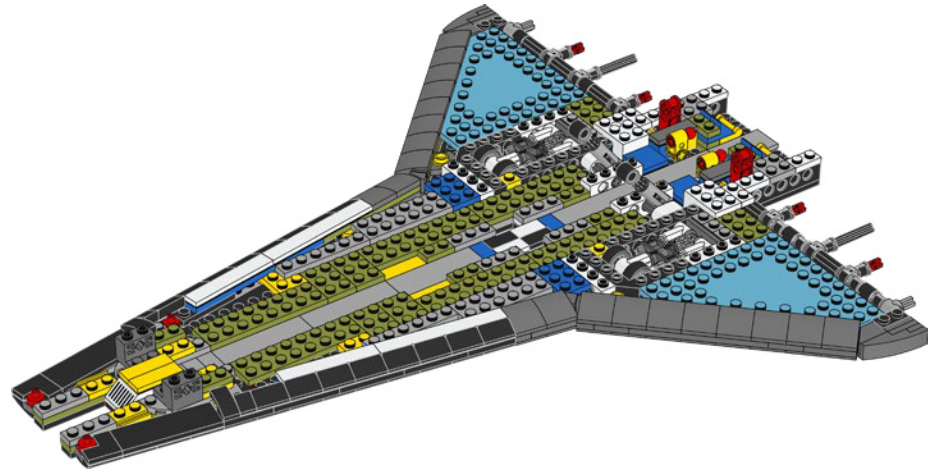
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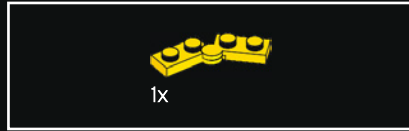
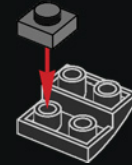


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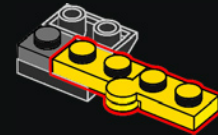




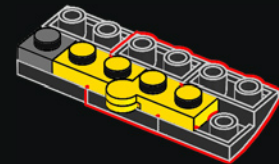
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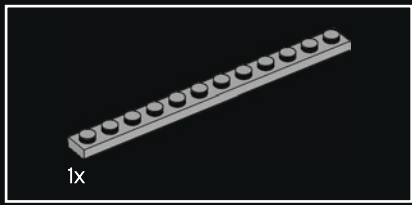


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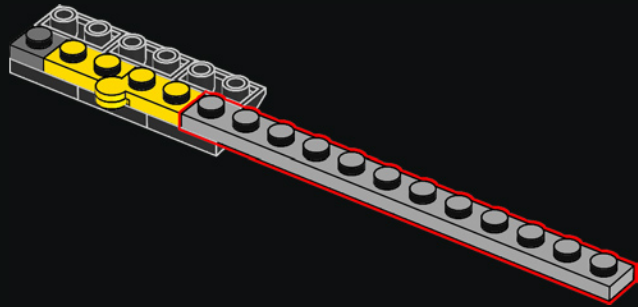


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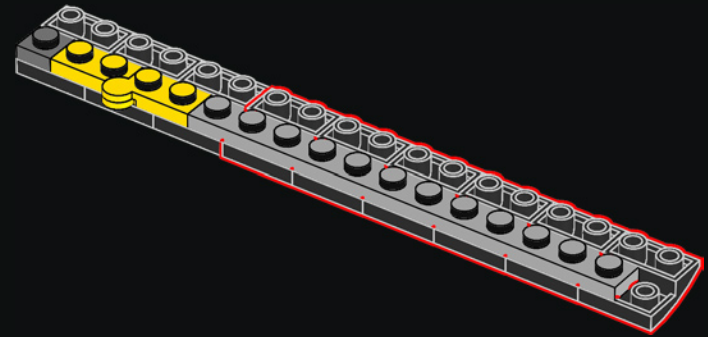


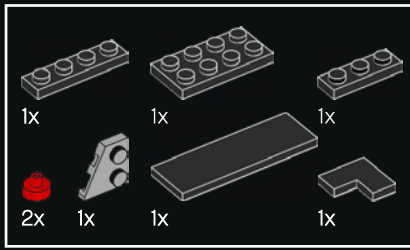


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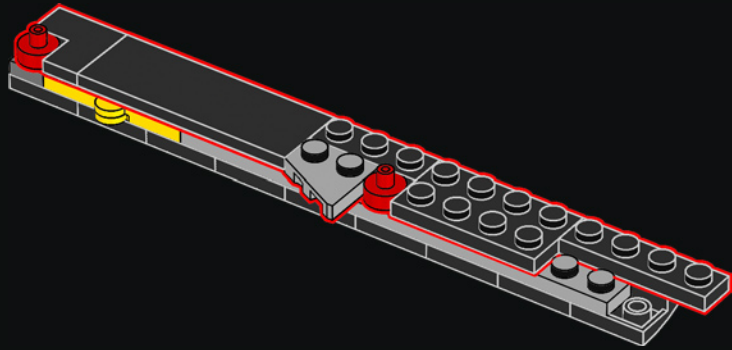


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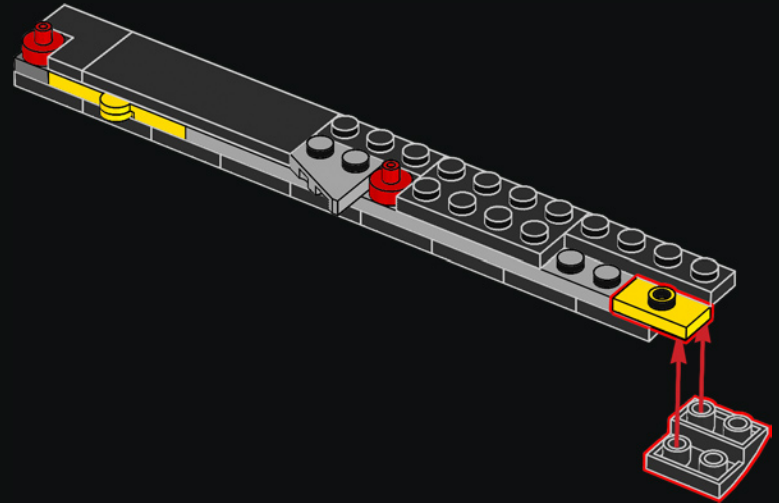


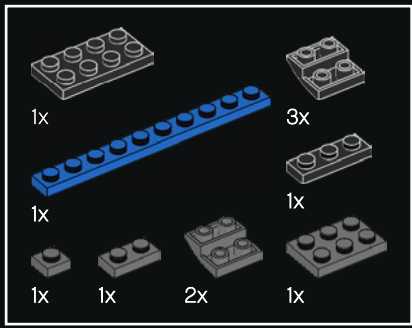


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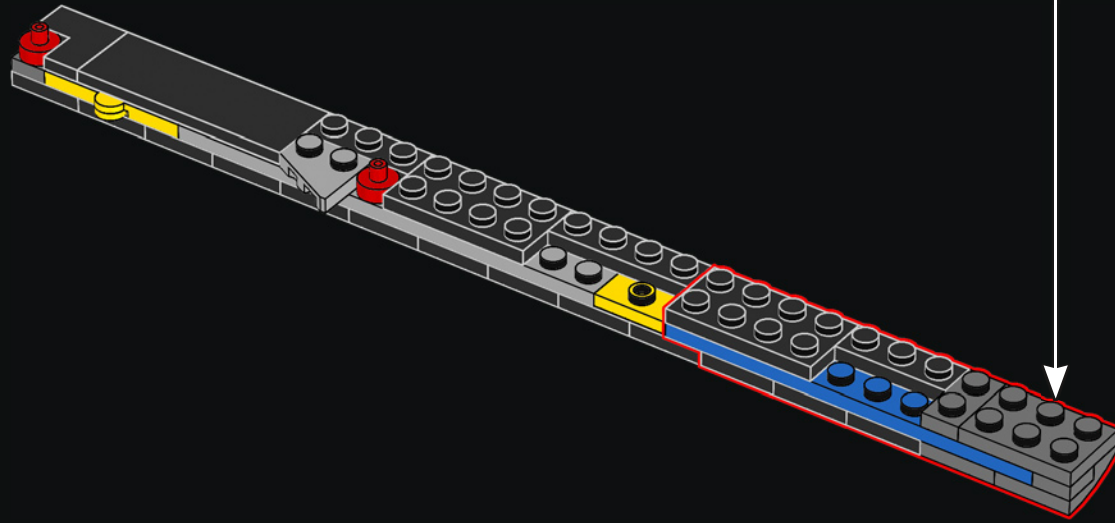
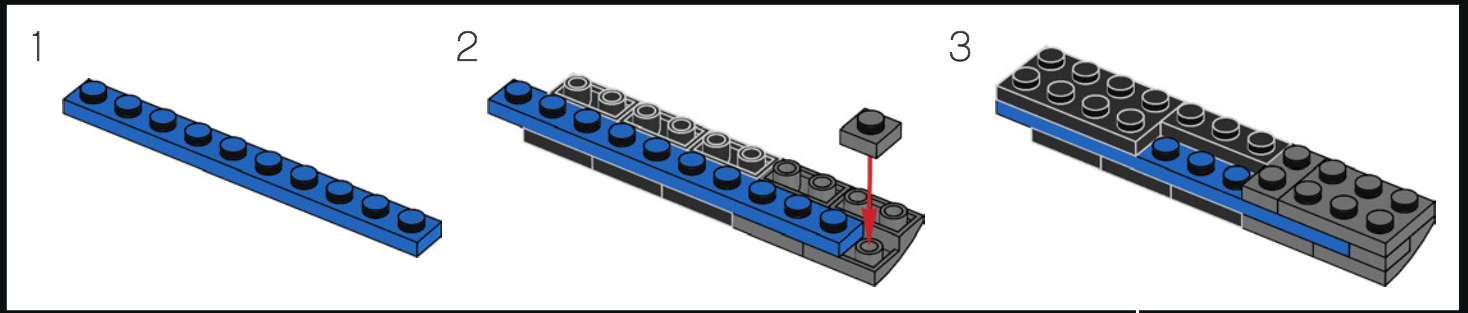


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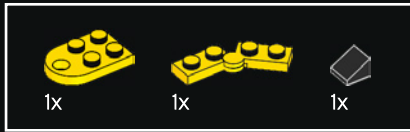
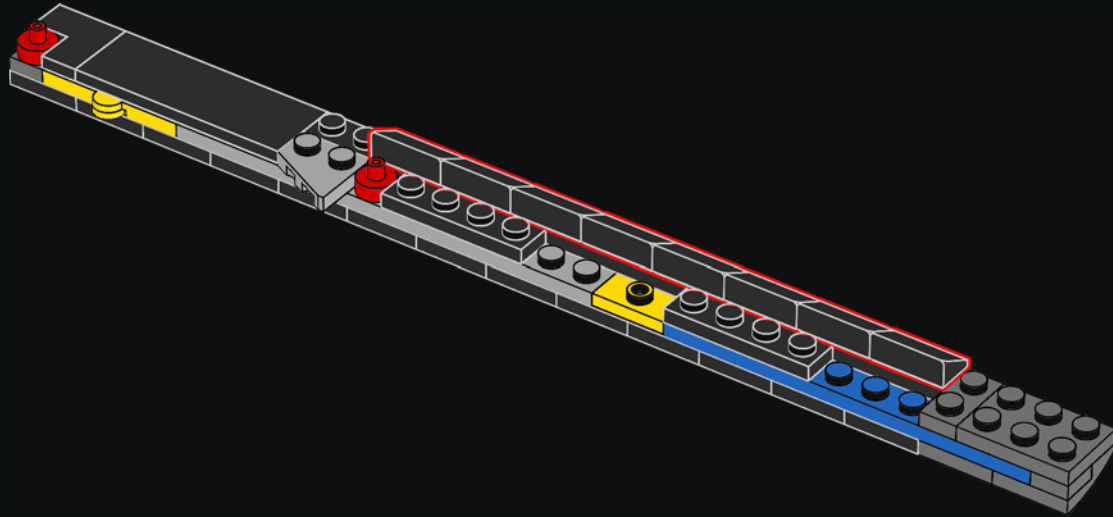


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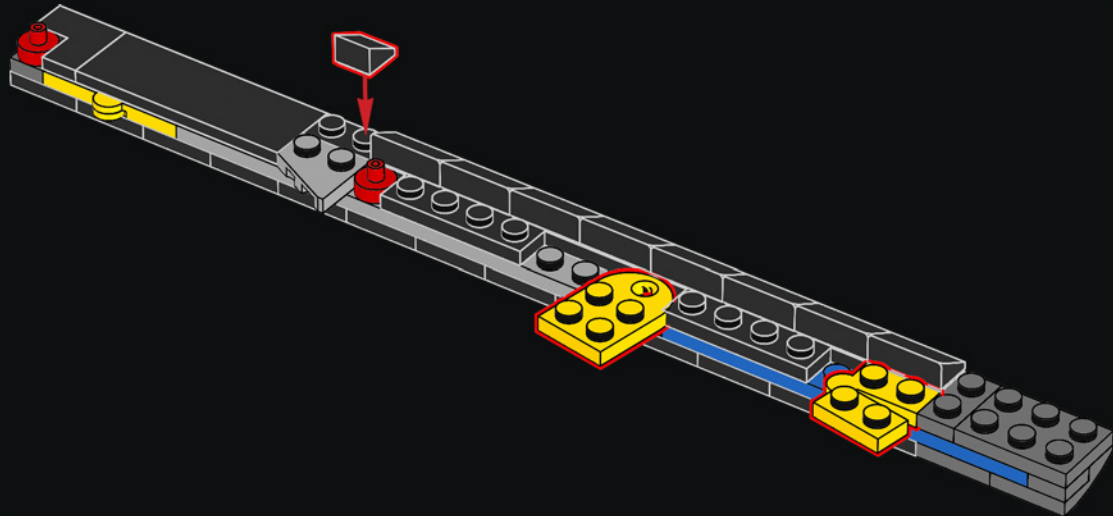


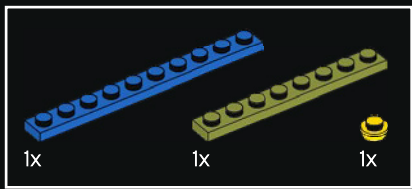


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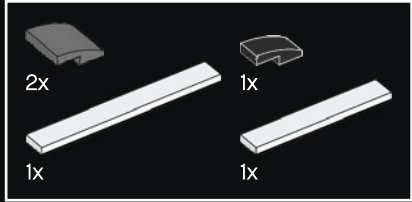
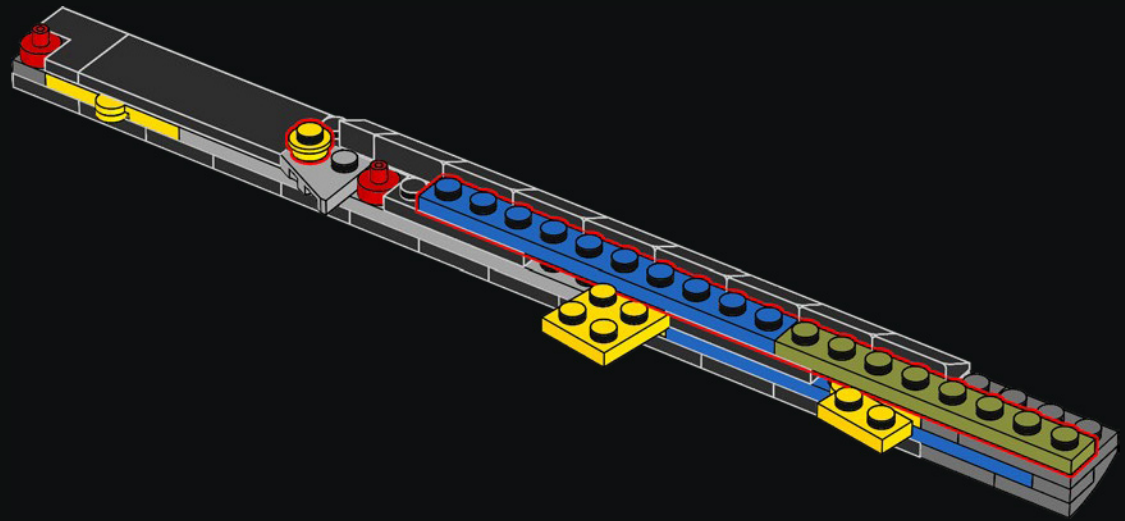


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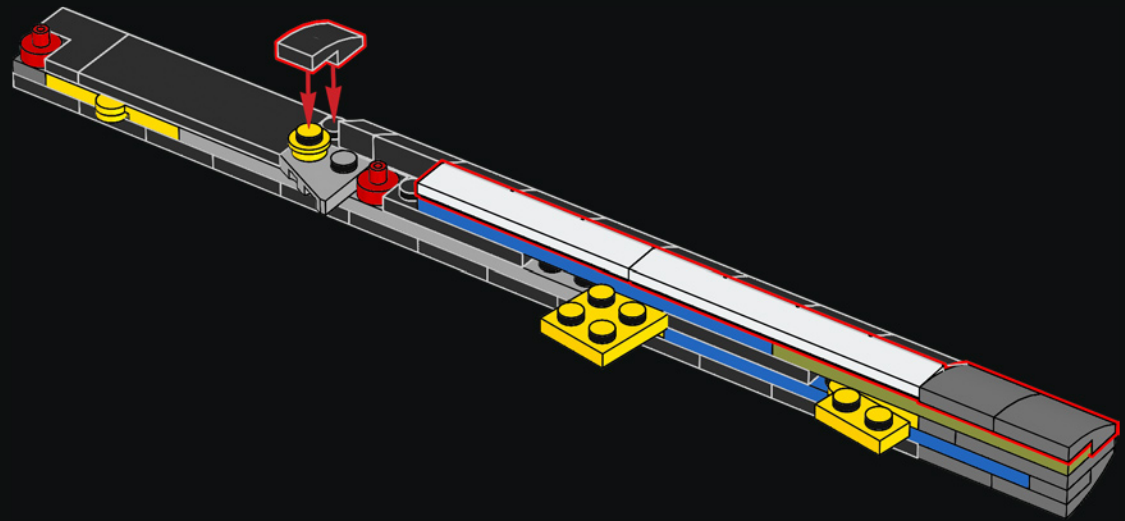




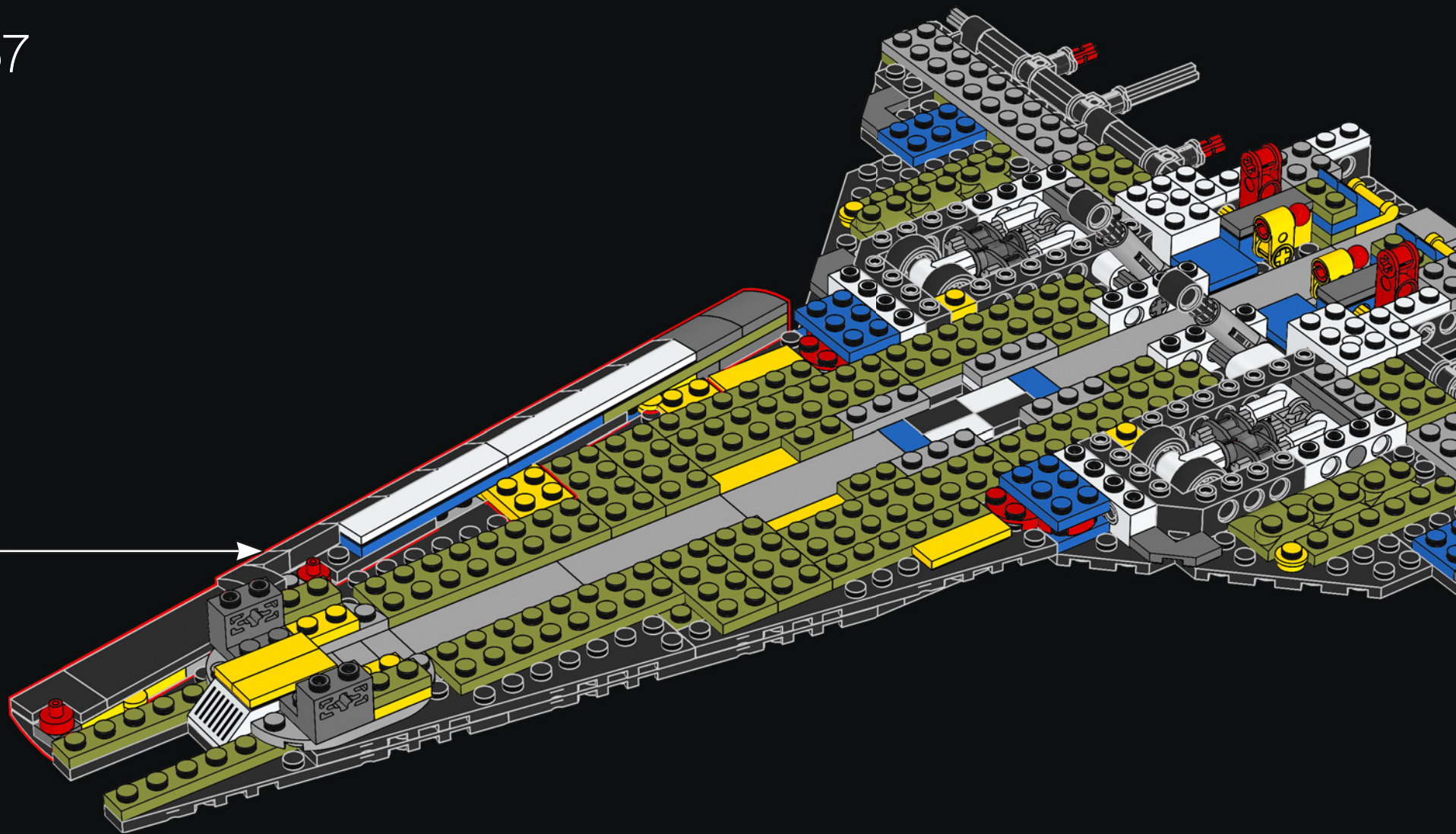
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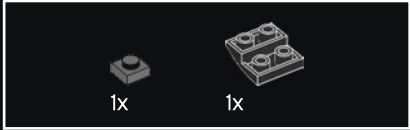
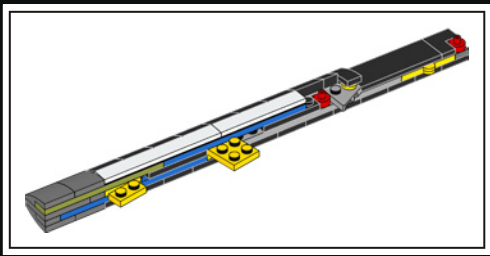


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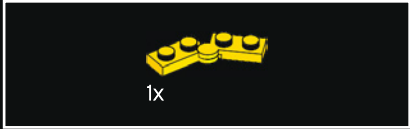
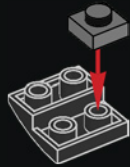


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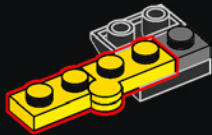




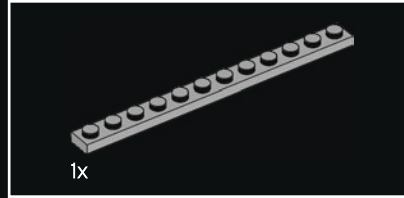
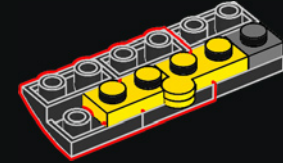
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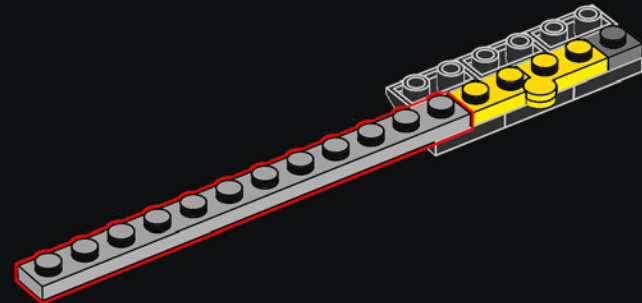
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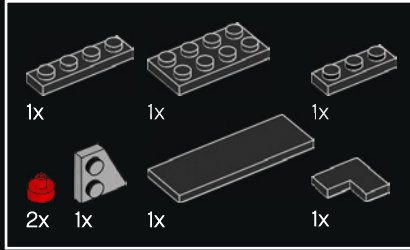
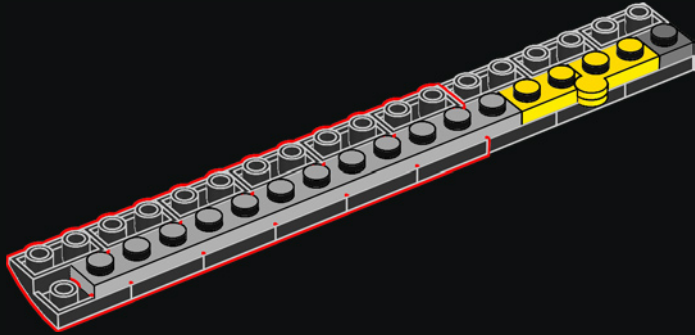


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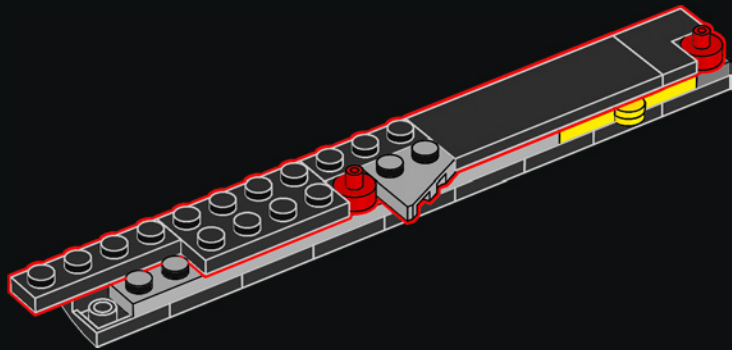




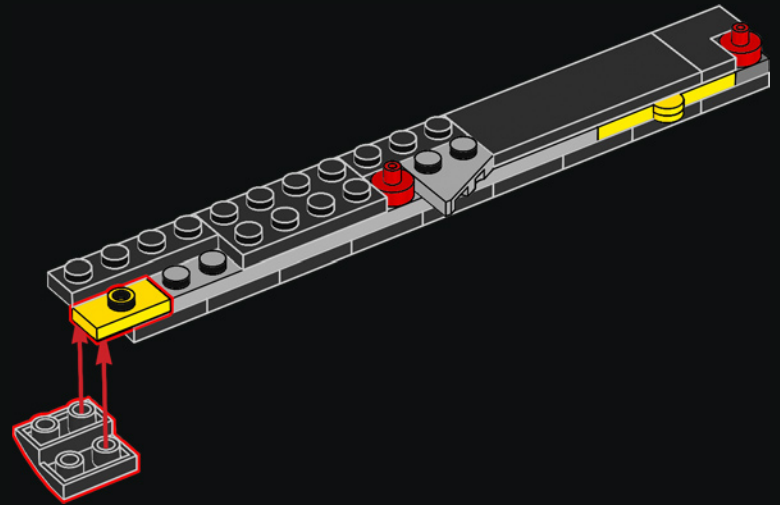
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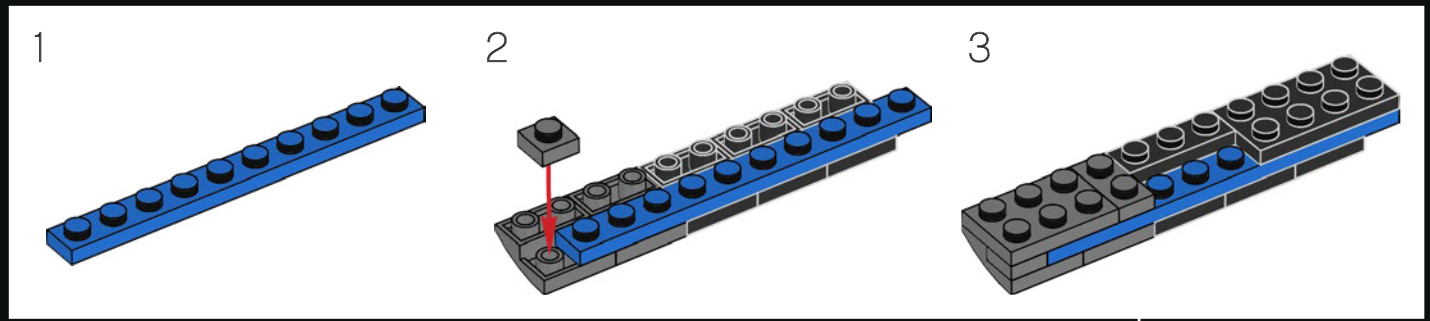
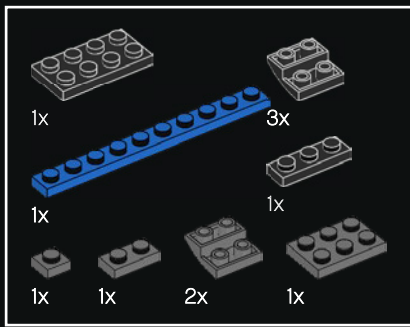


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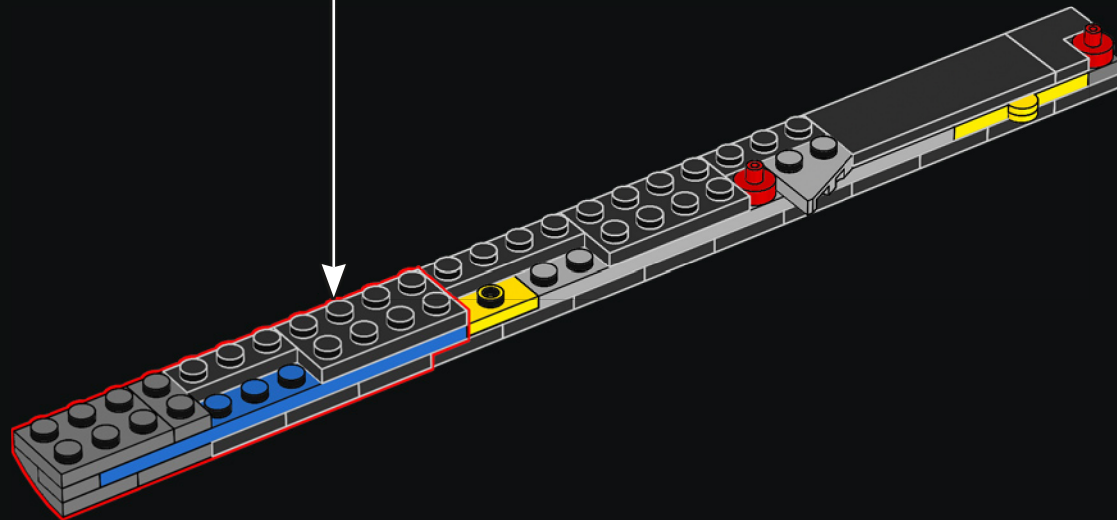


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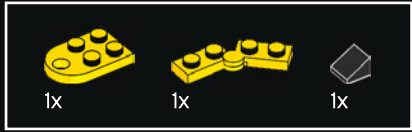
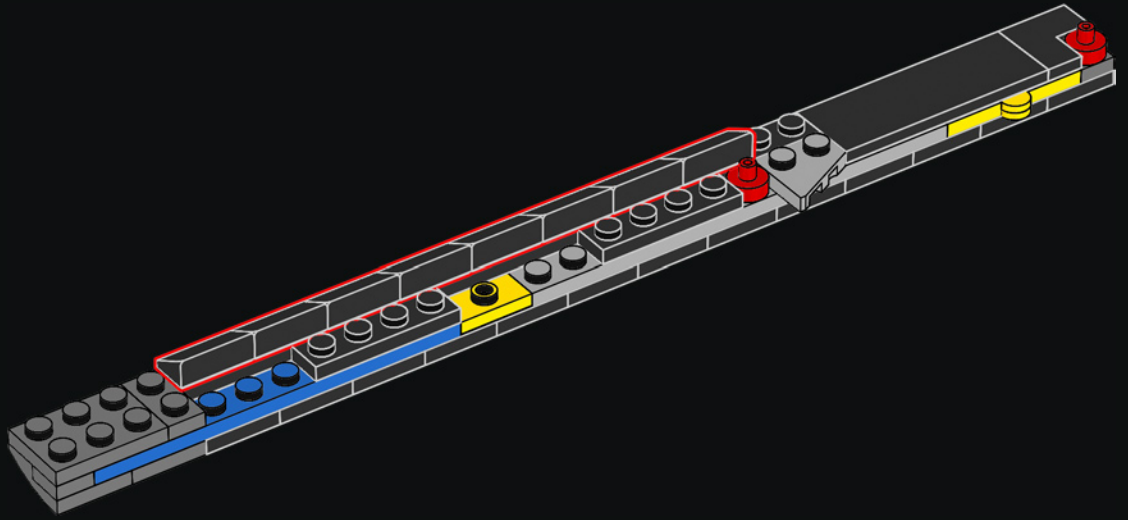


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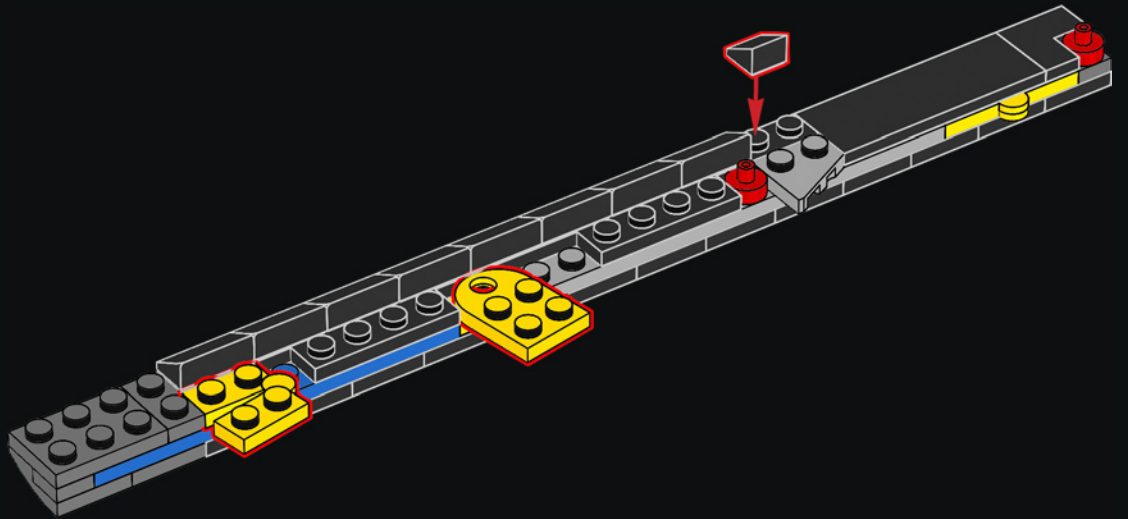


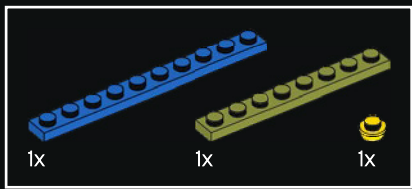


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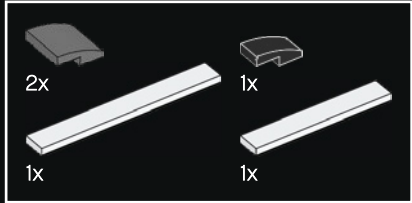
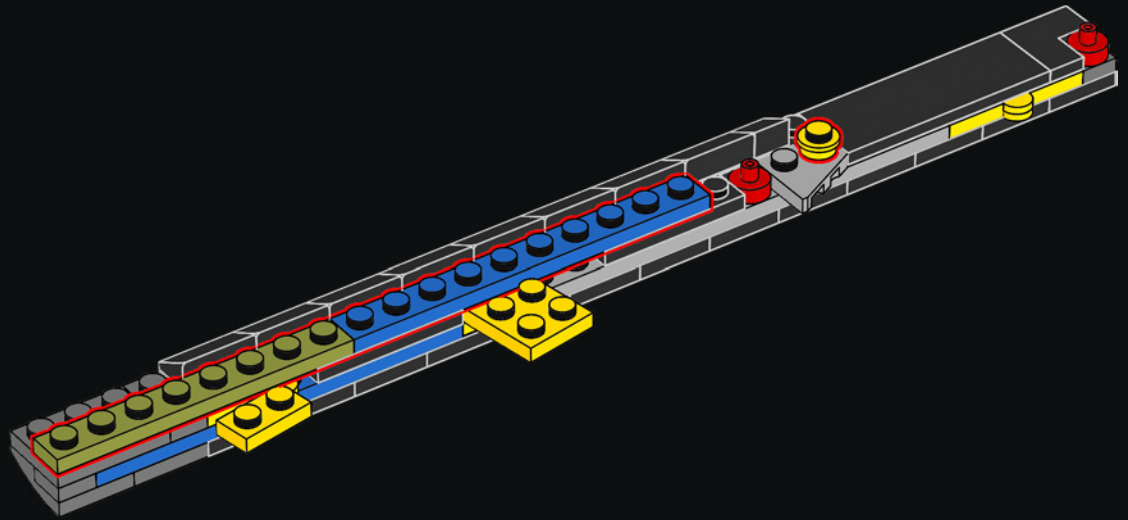


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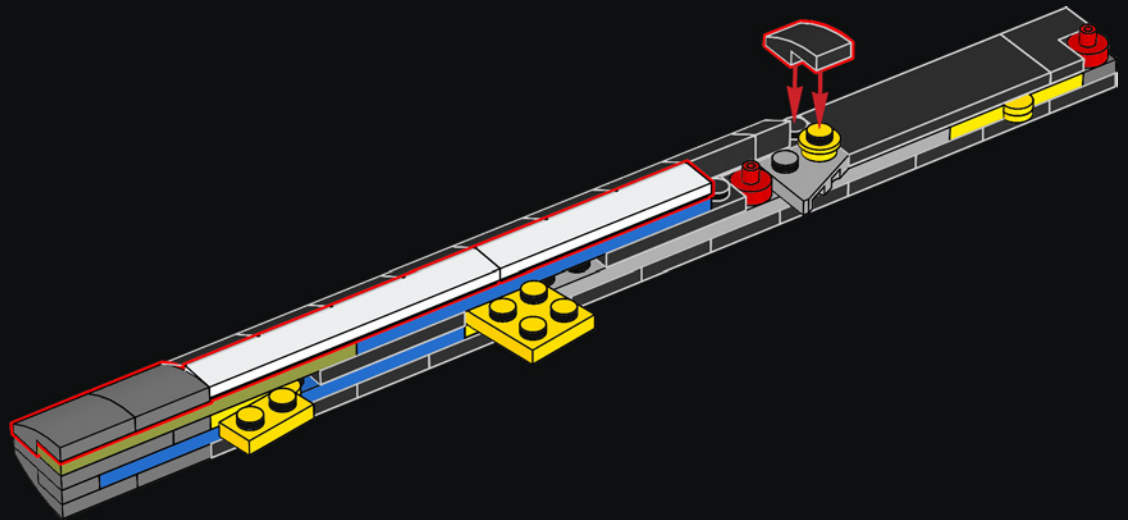




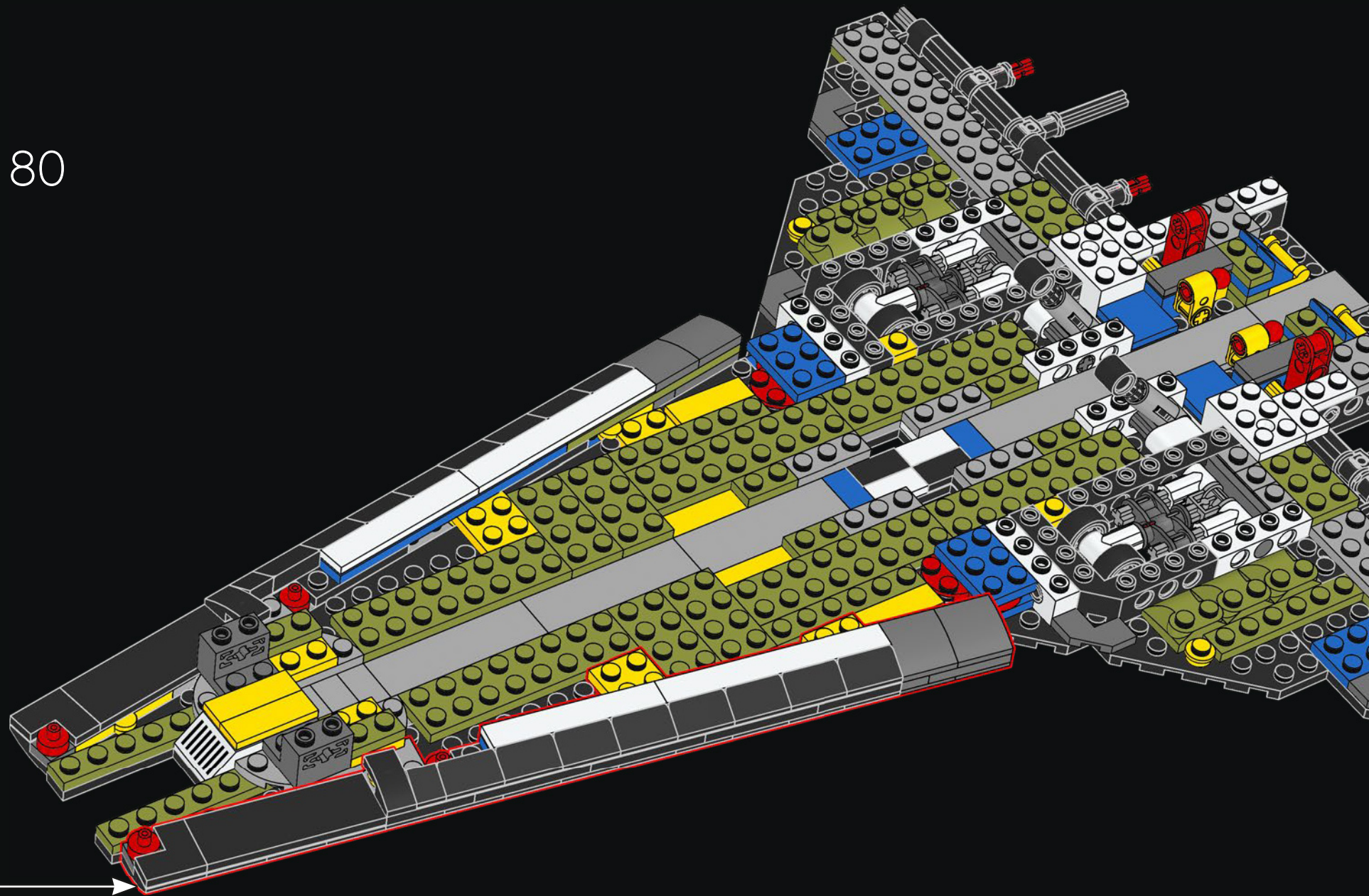
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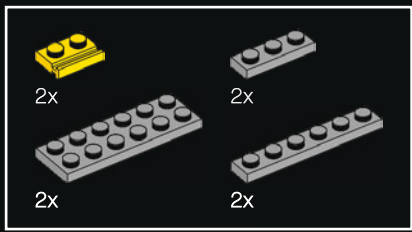


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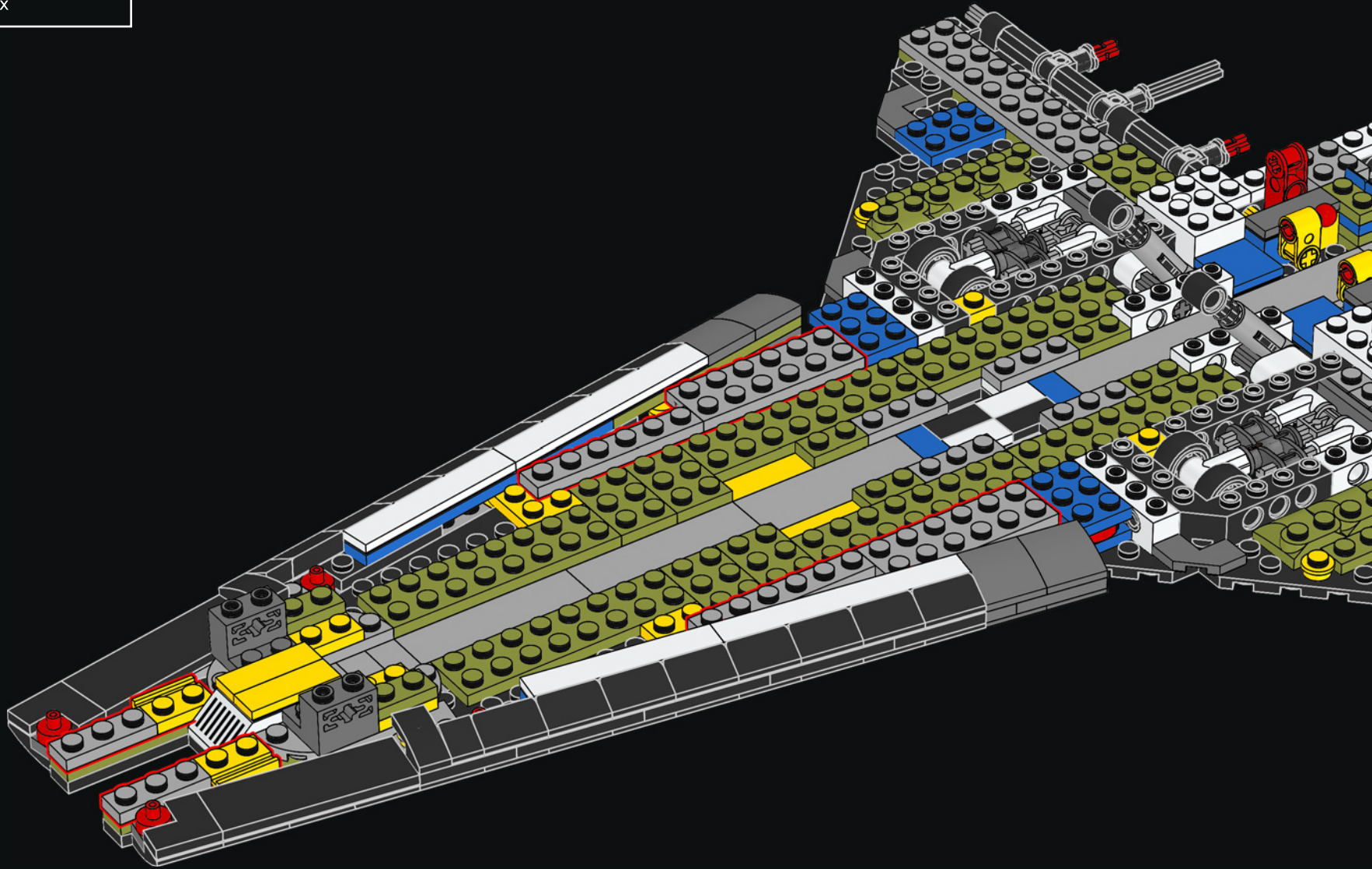


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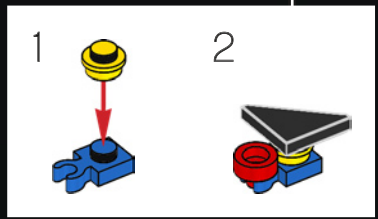
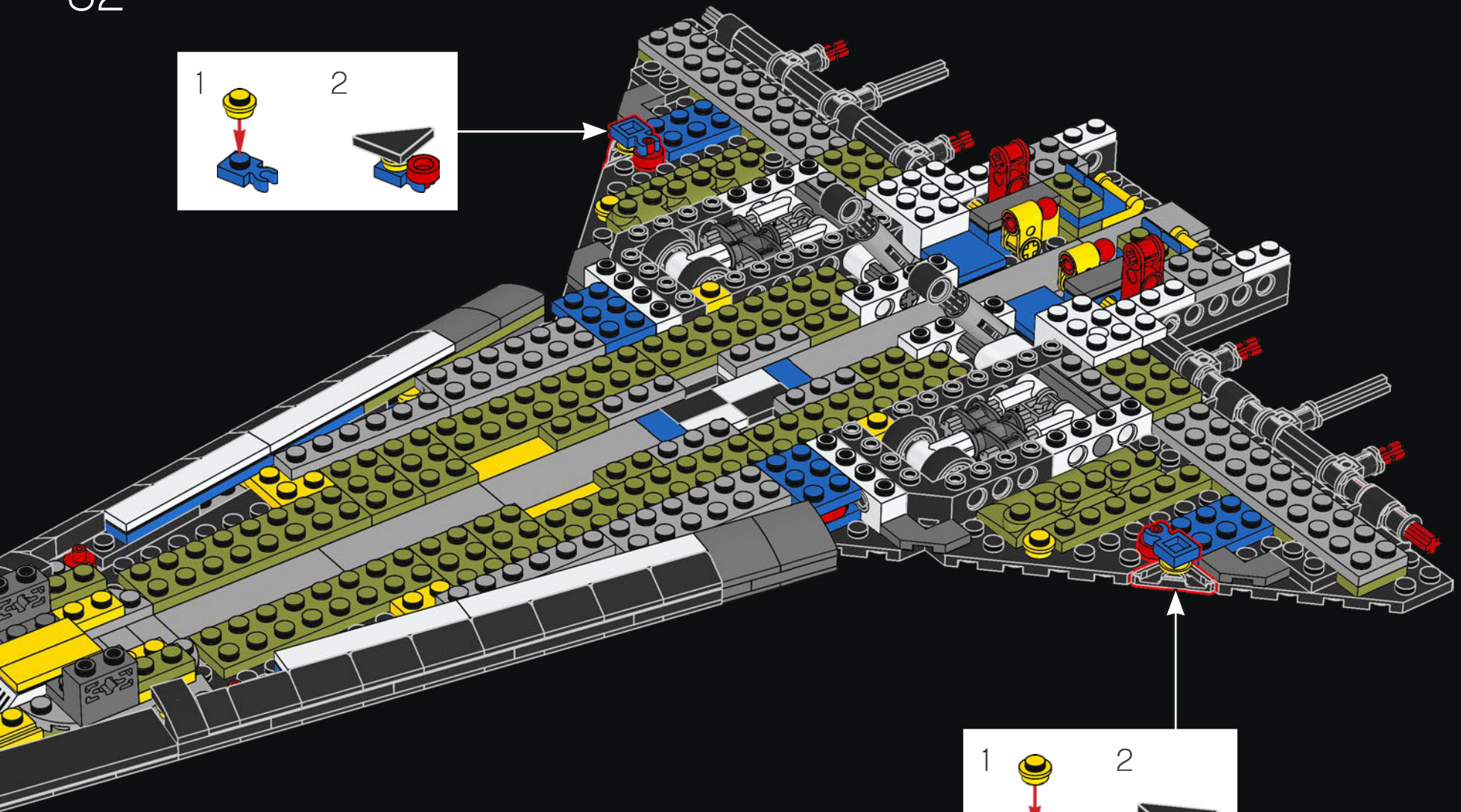
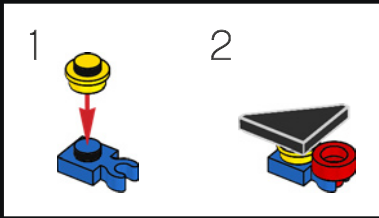


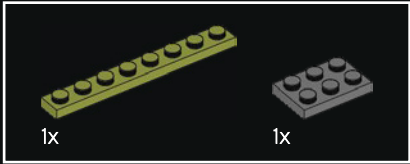
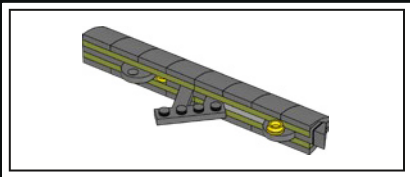
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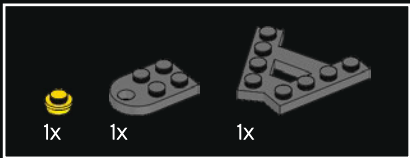
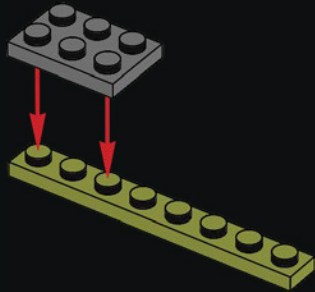
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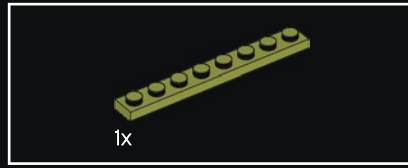
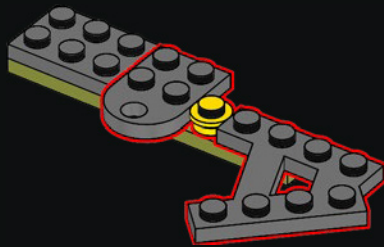




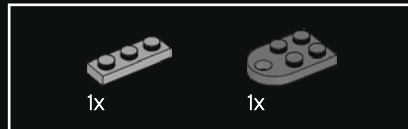
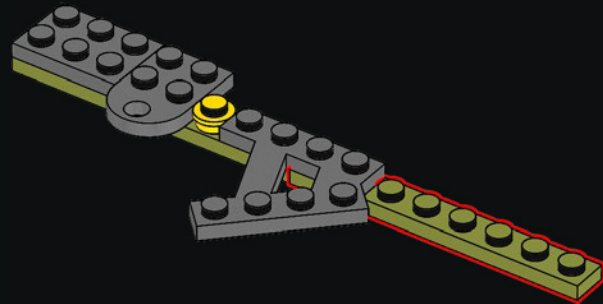
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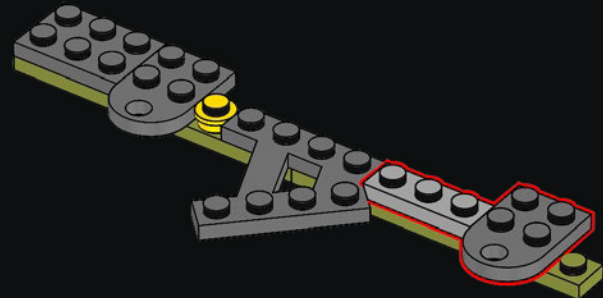
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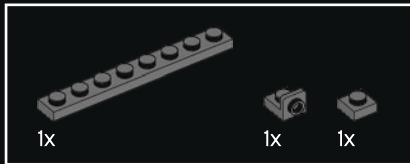
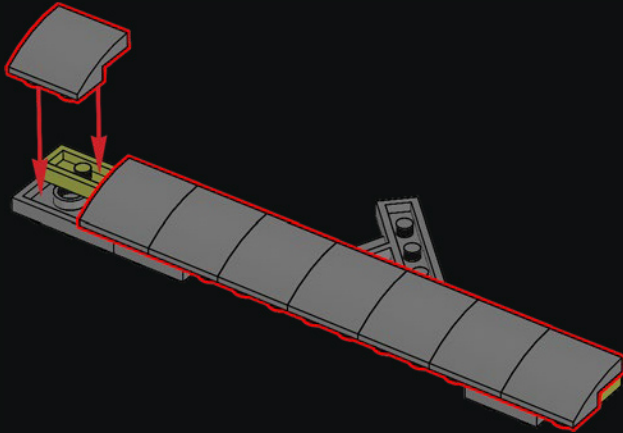


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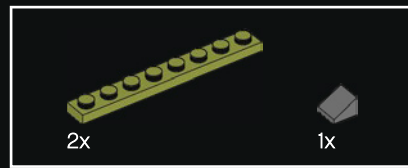
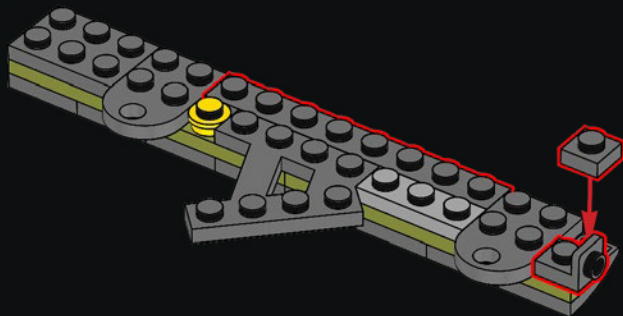




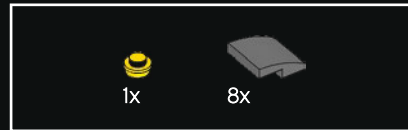
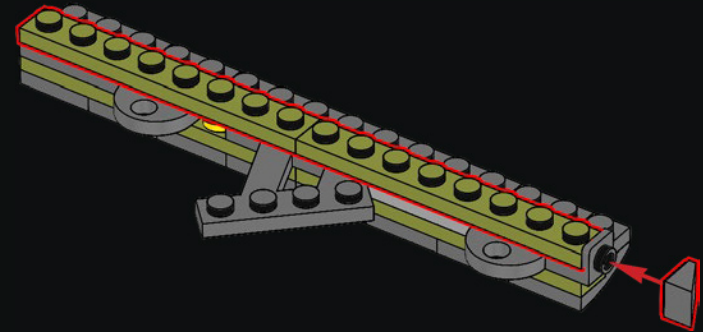
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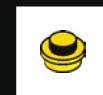
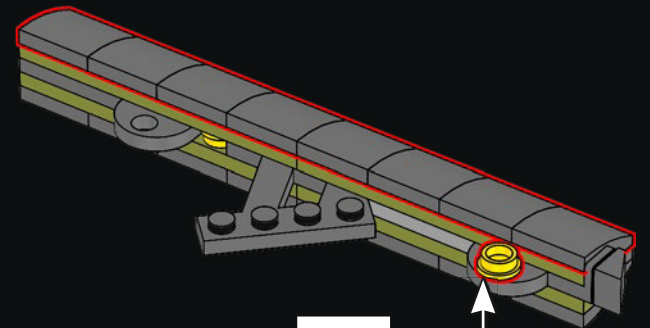
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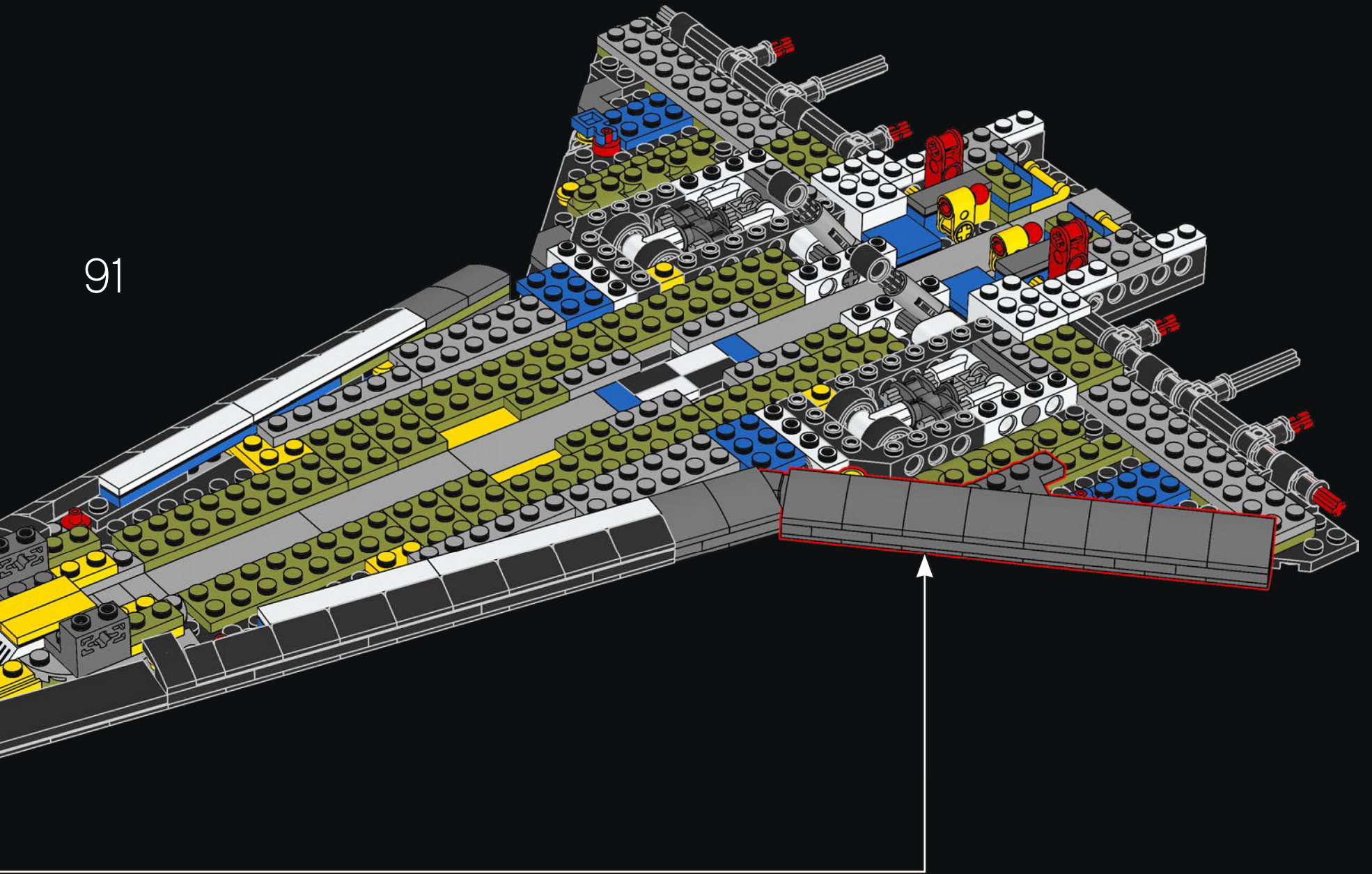
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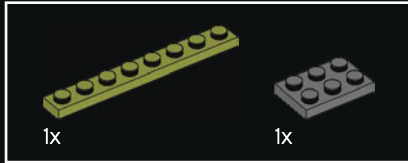
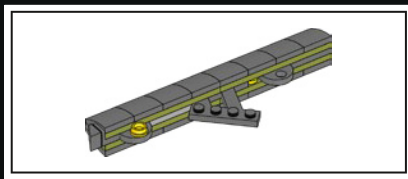


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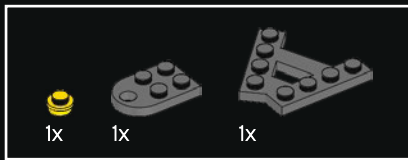
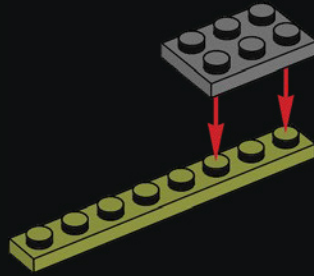


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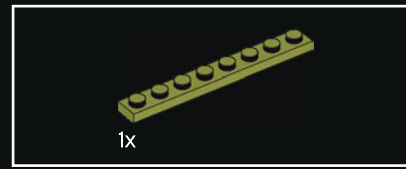
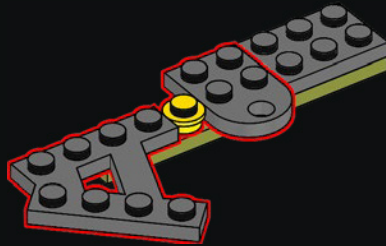




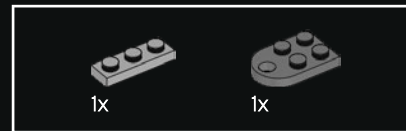
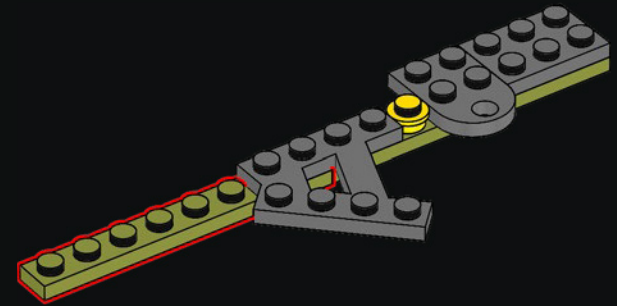
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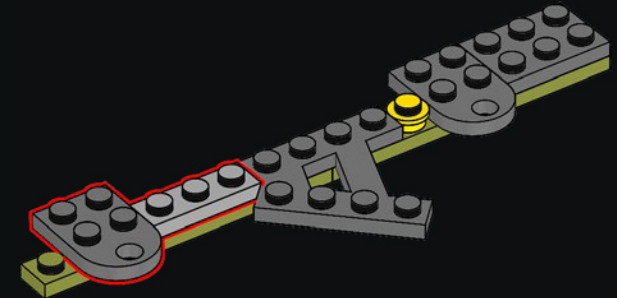
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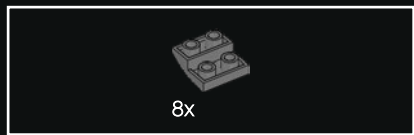


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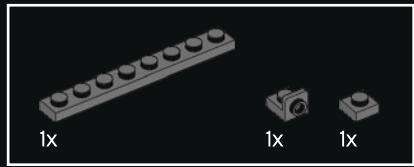
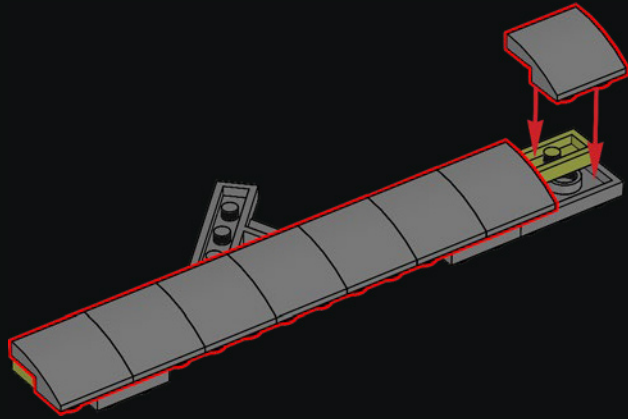


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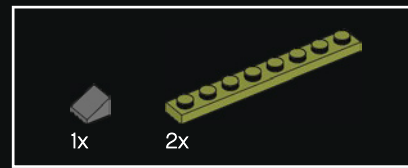
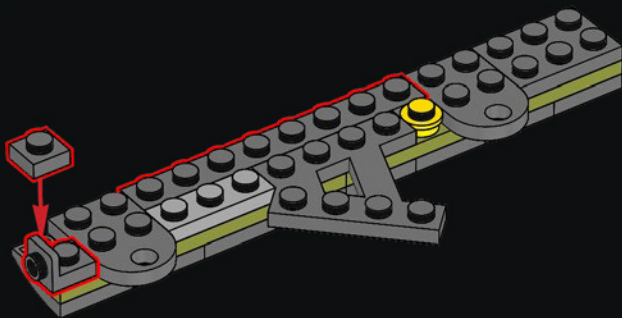




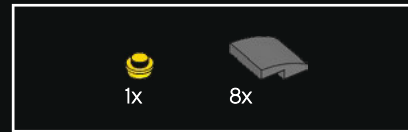
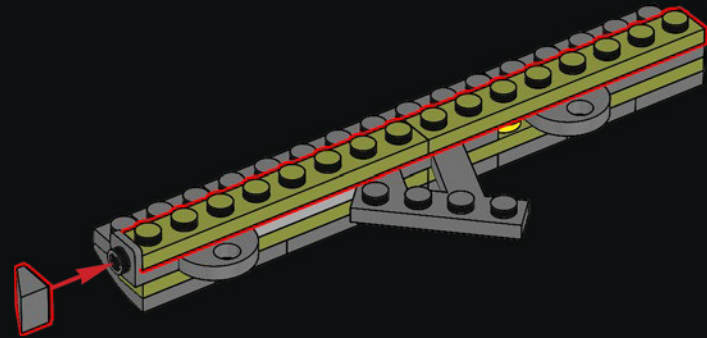
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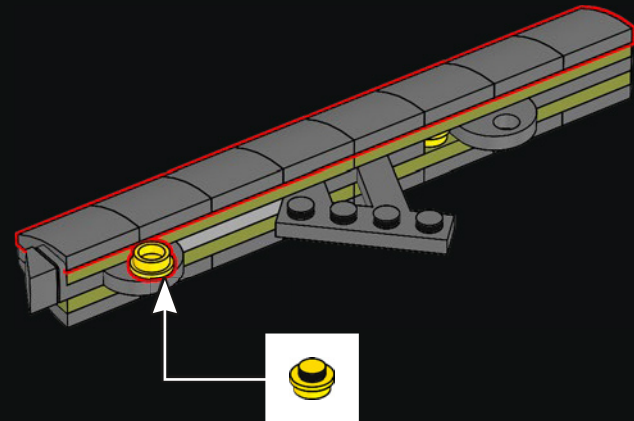
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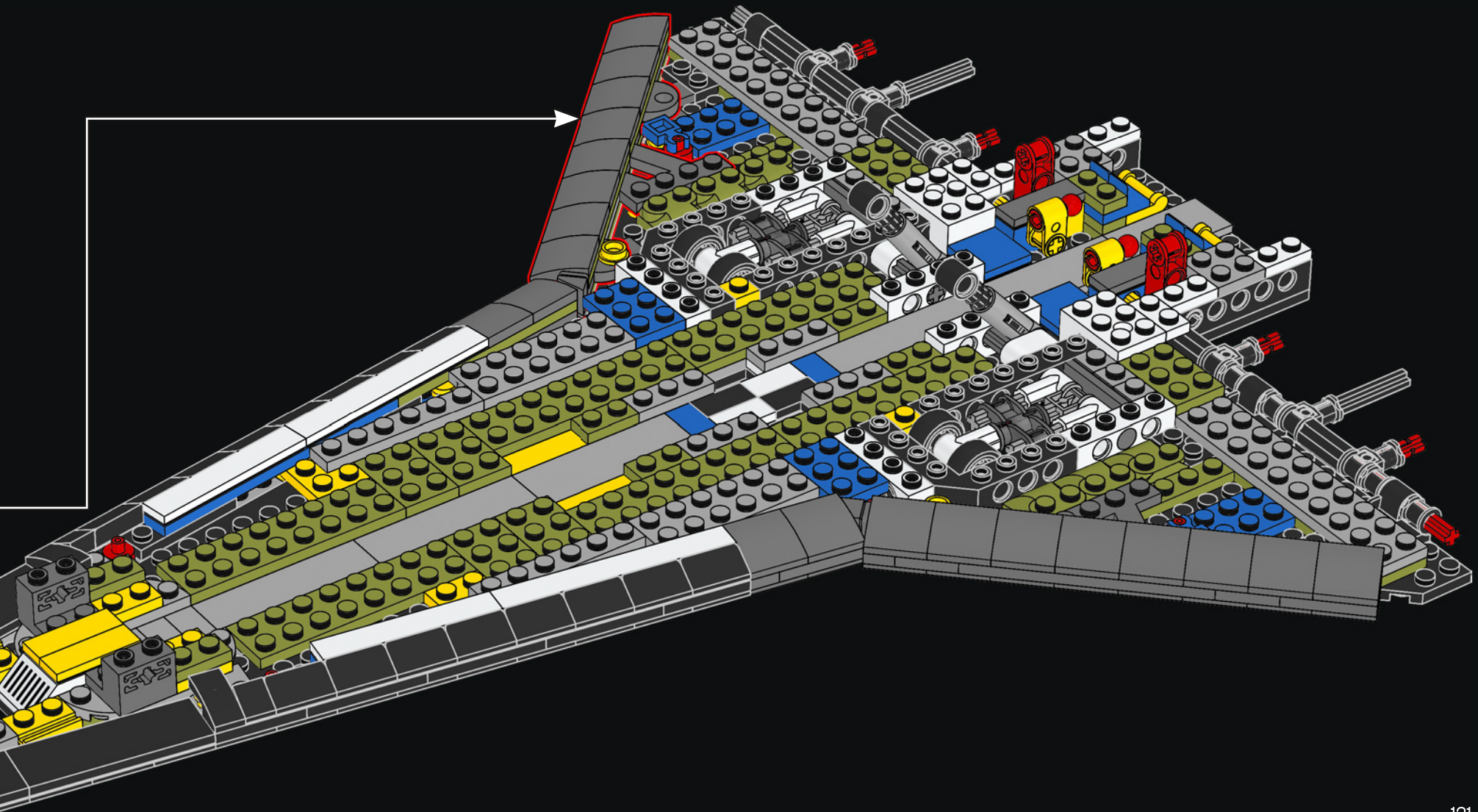
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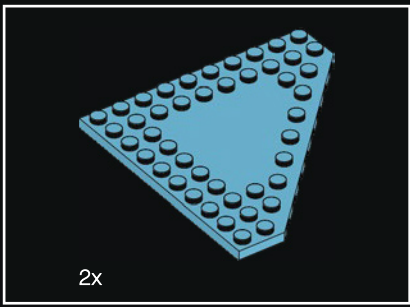


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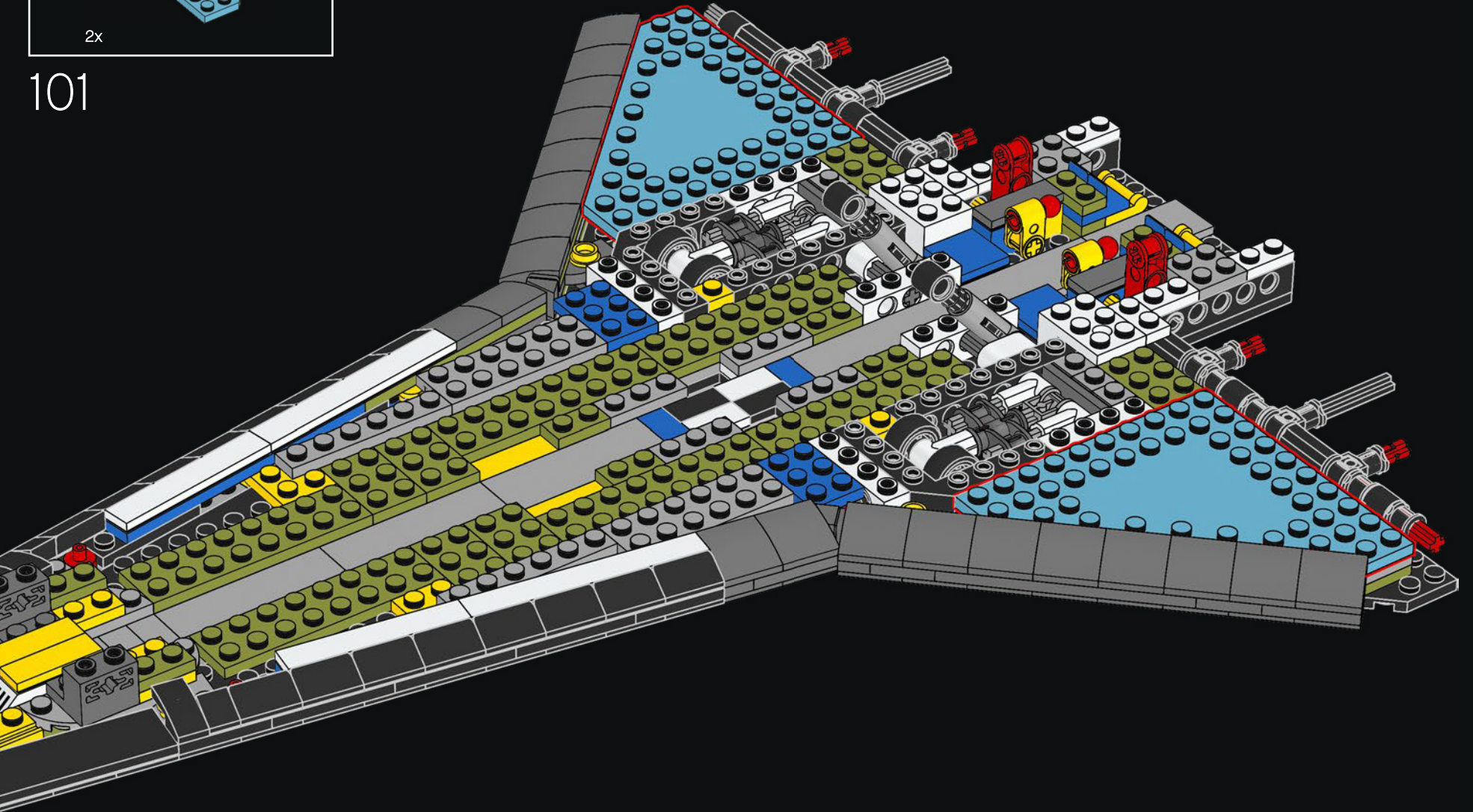


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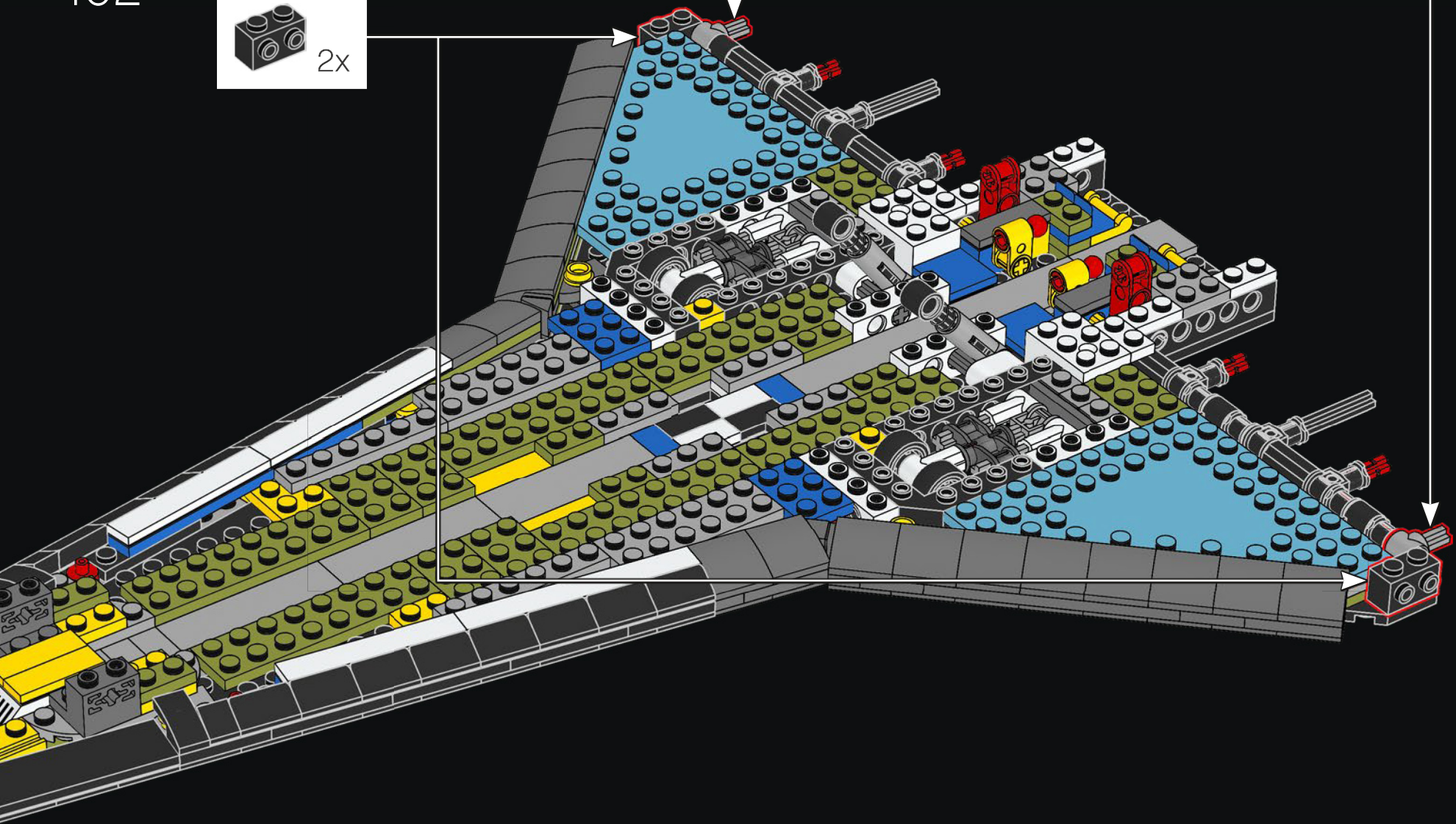
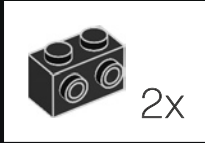


101



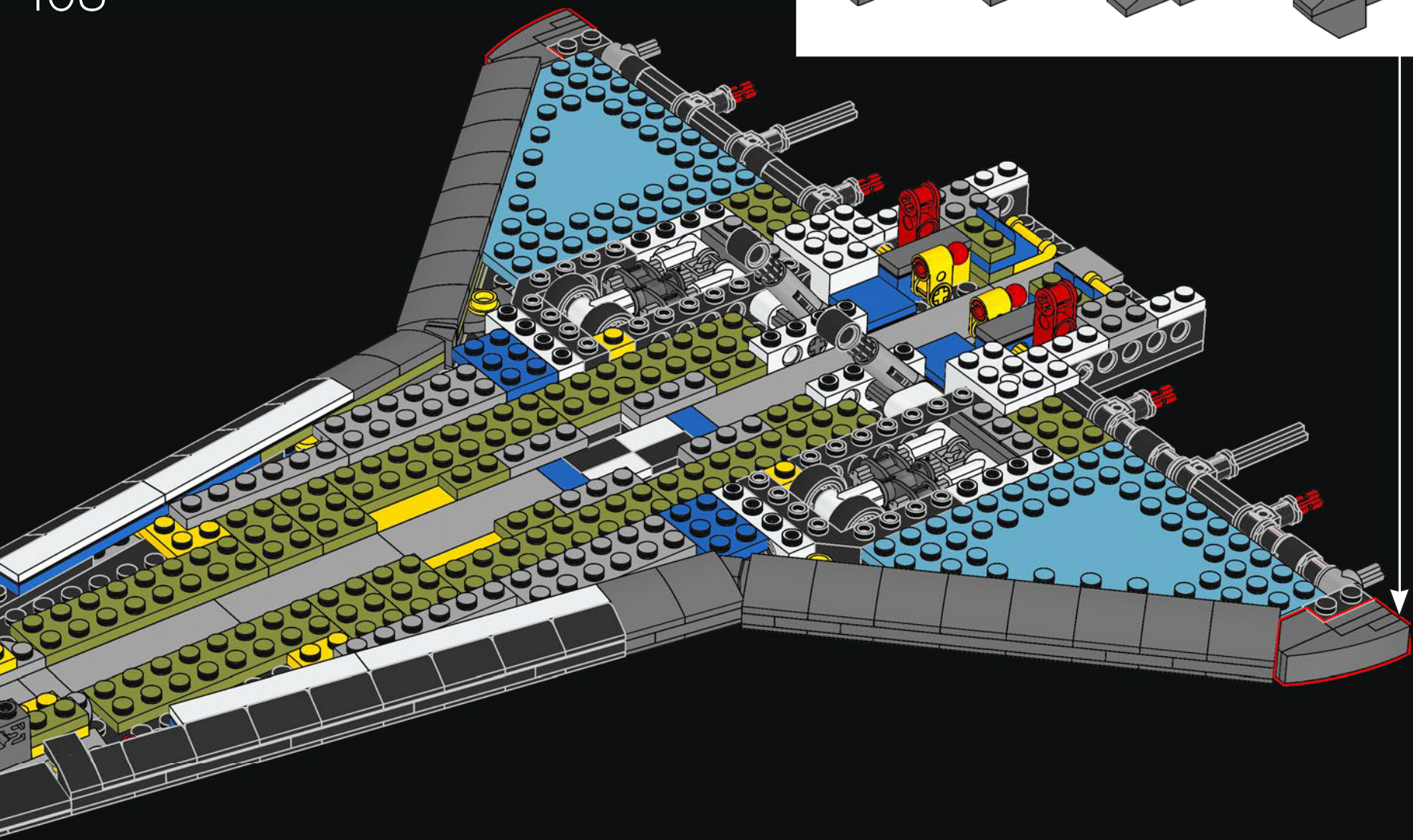
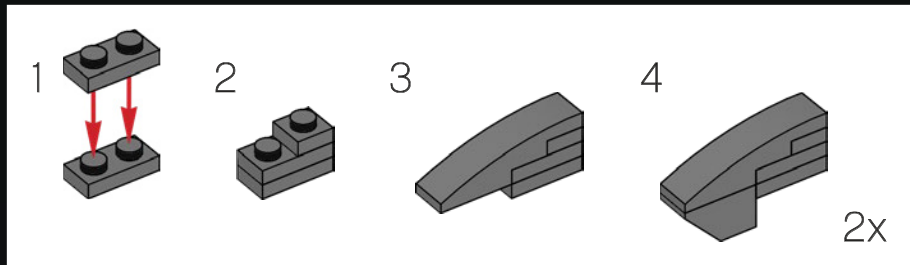


102



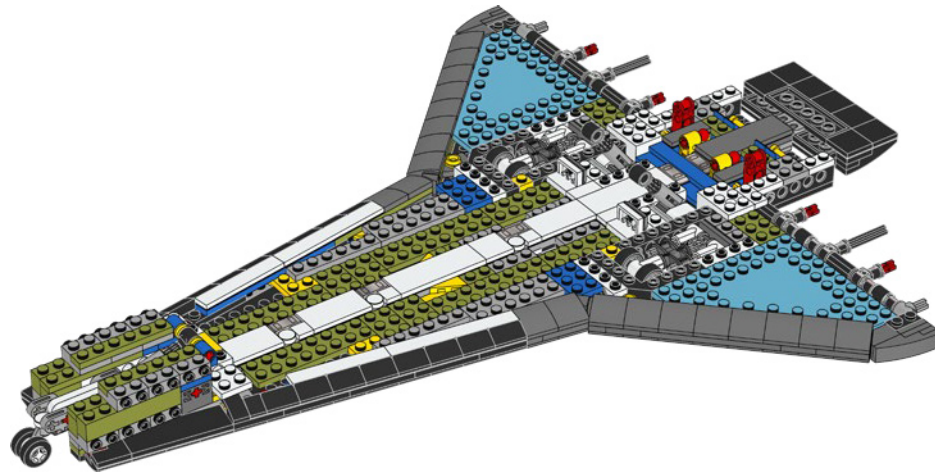
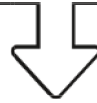


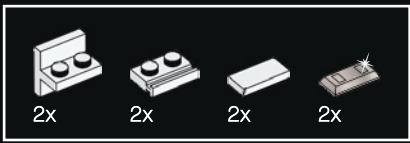
103



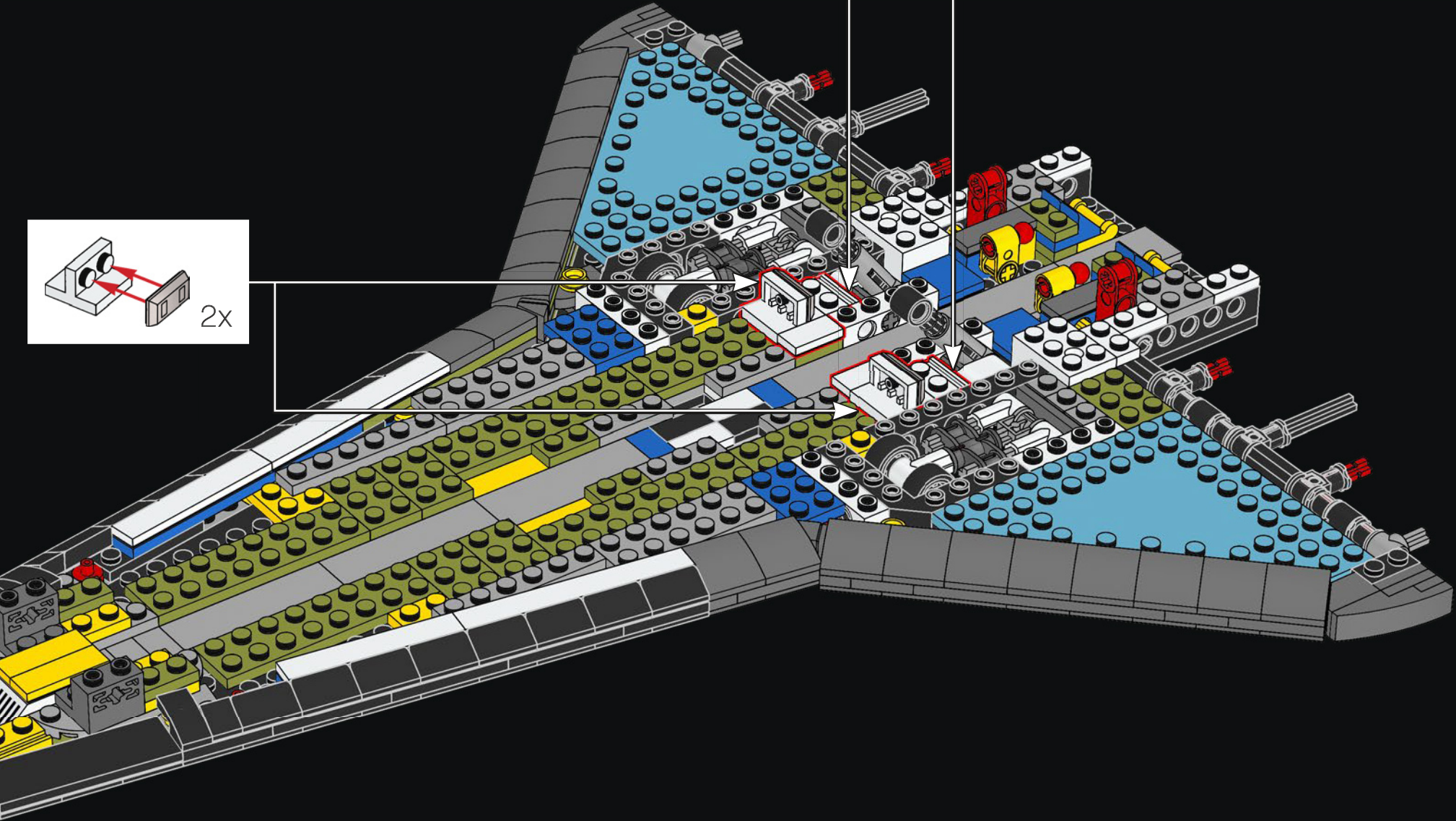
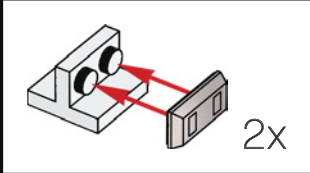
DID YOU KNOW?

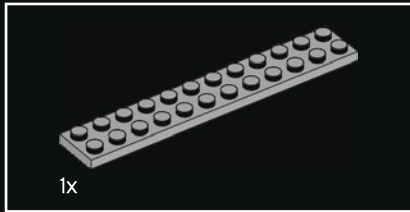
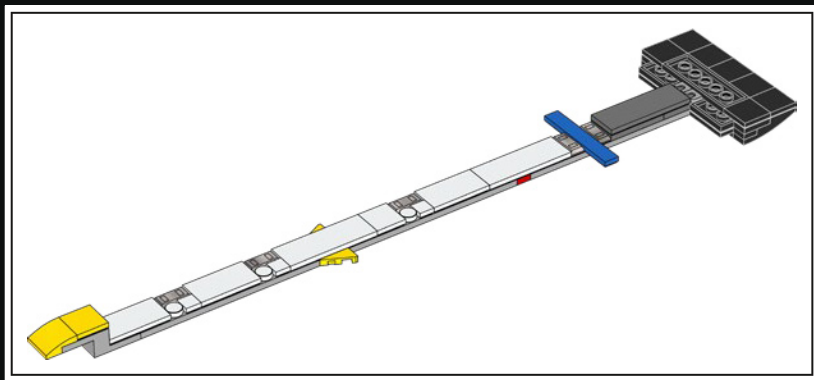
The nose and the leading edges of the wings take most of the re-entry heat – up to 1,600 degrees Celsius (2,912 degrees Fahrenheit)!



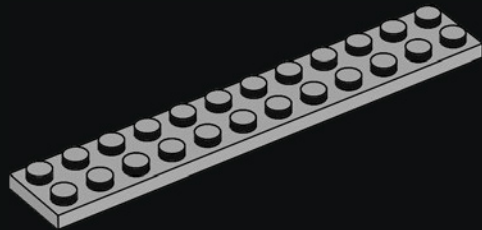


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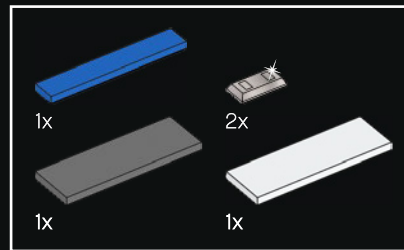
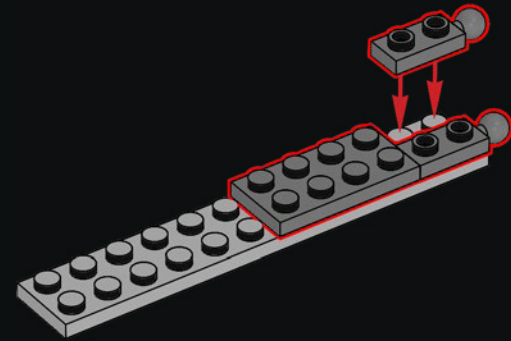




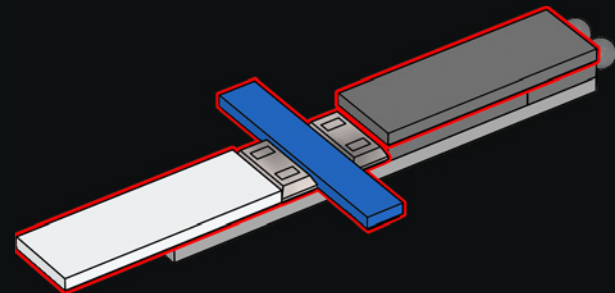
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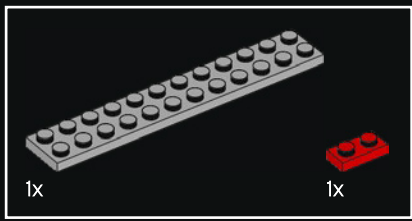


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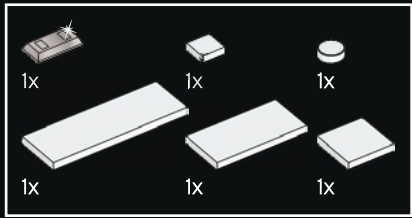
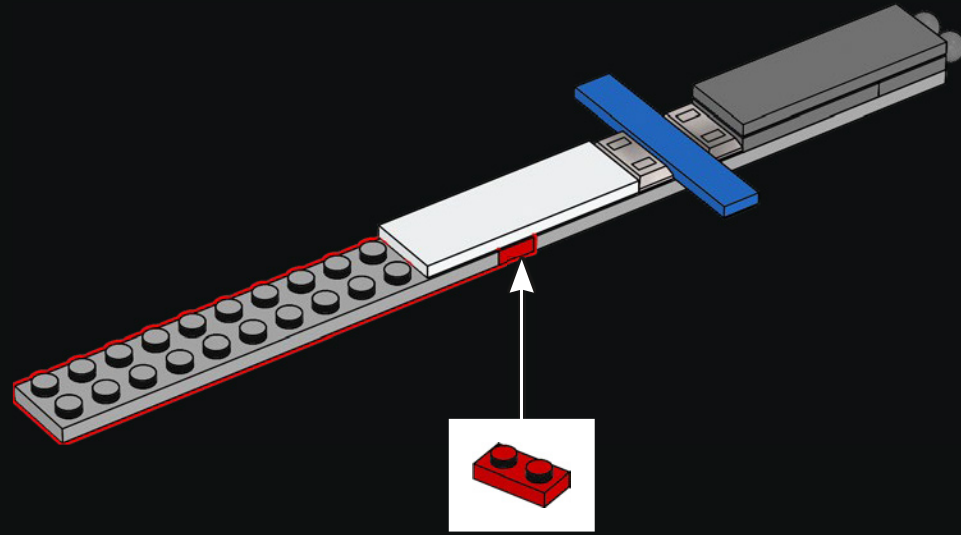


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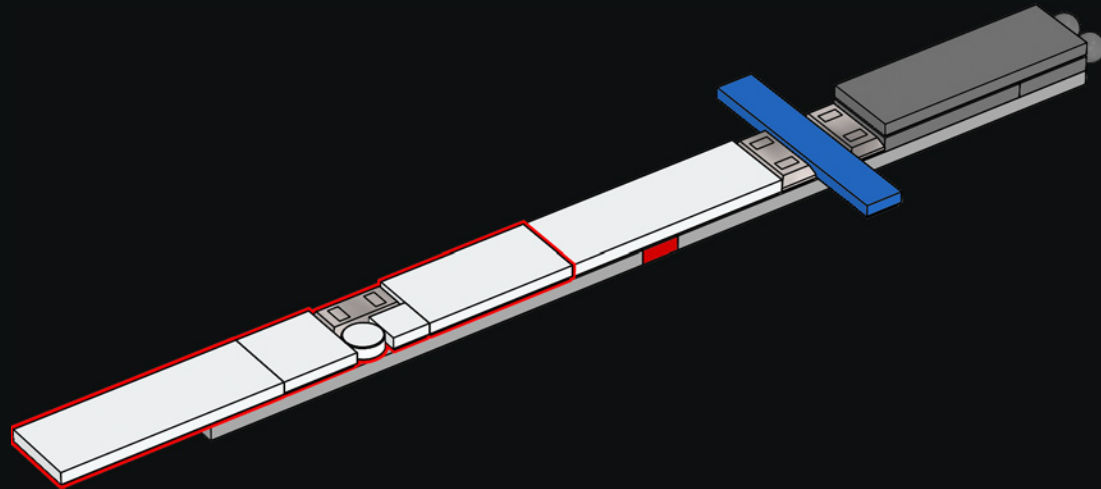


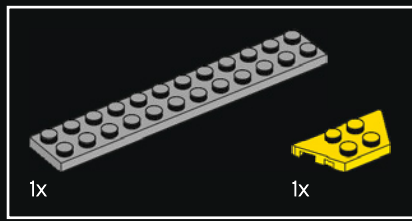


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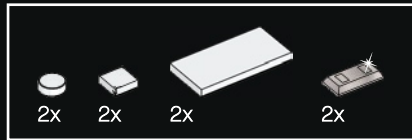
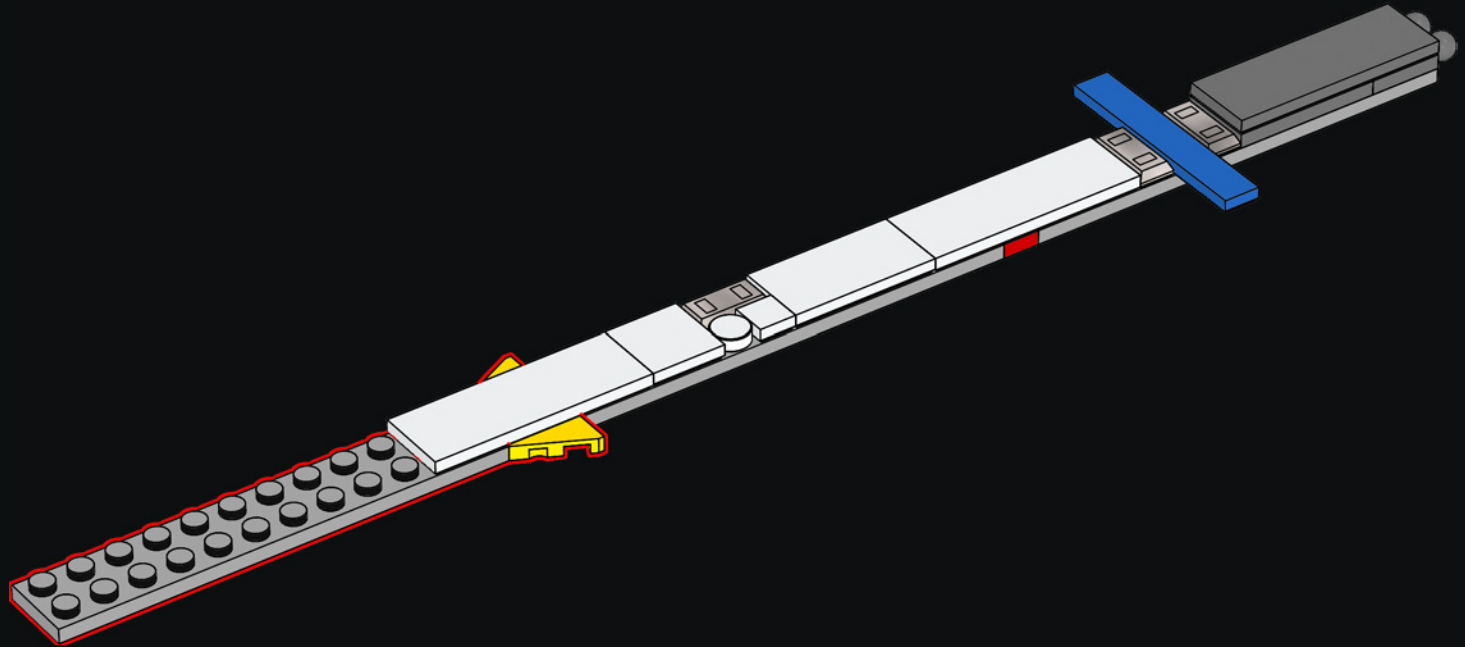


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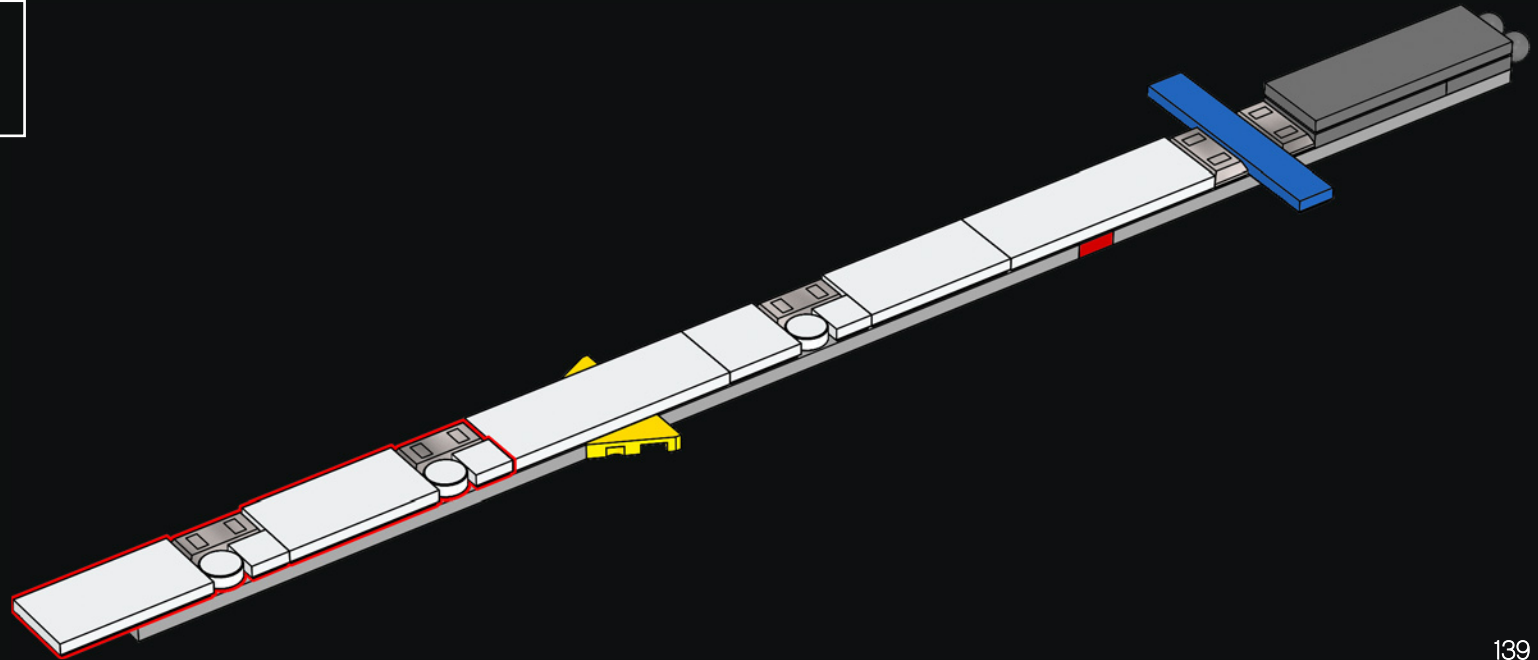


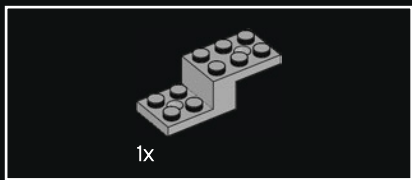


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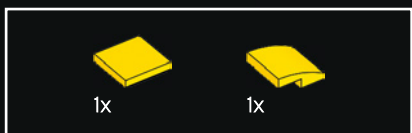
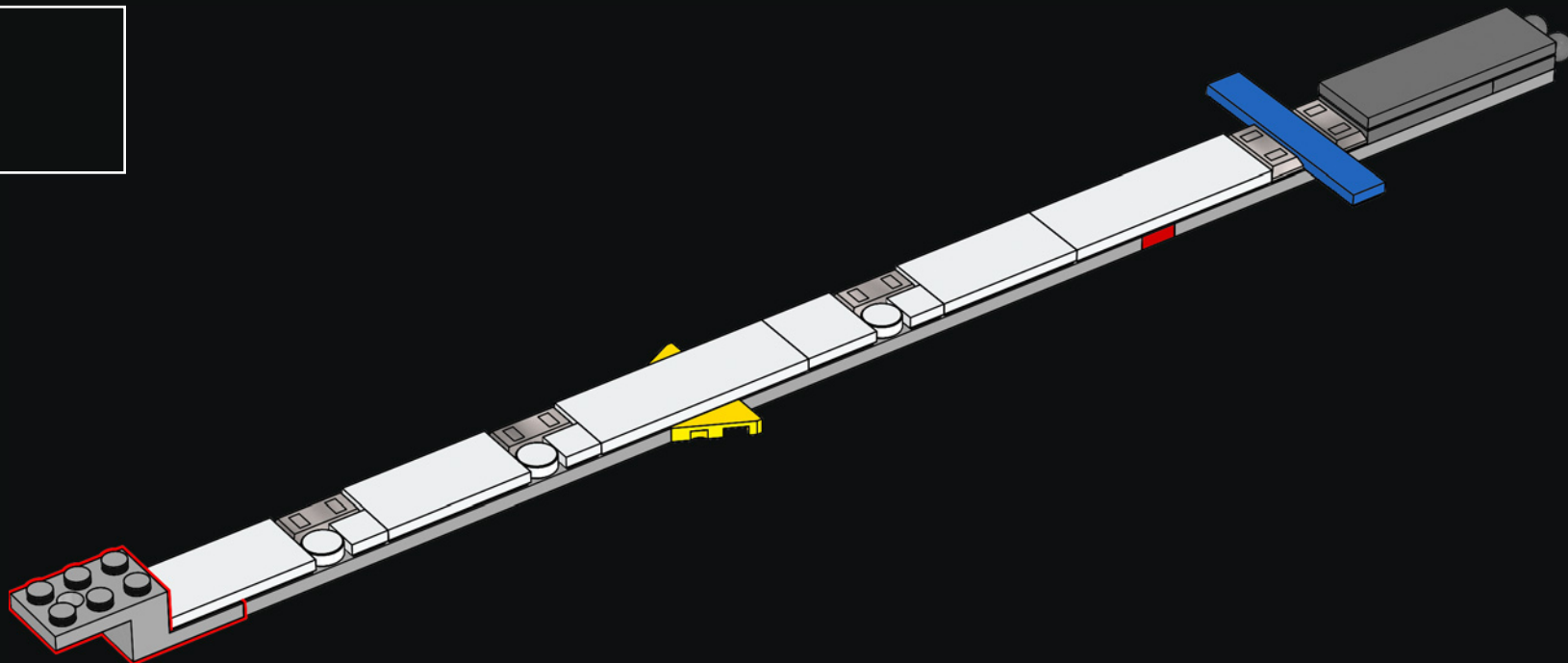


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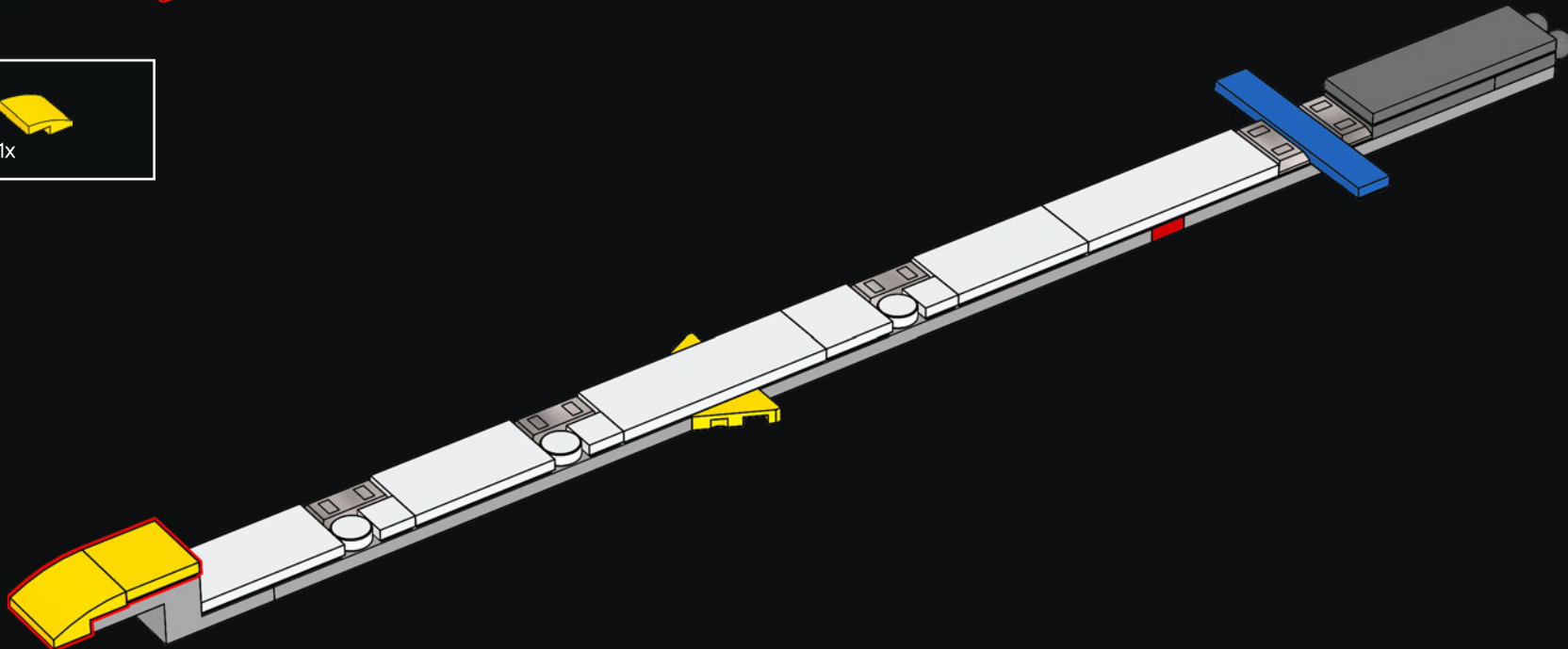


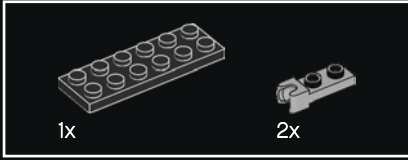
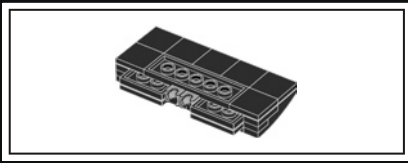


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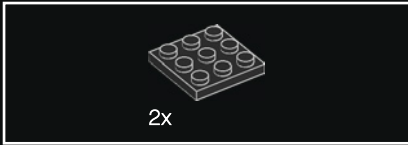
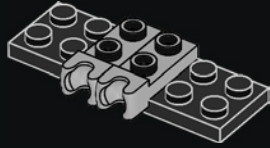


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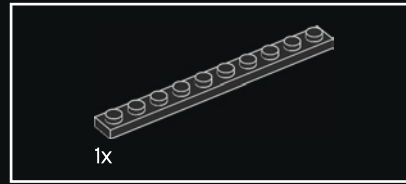
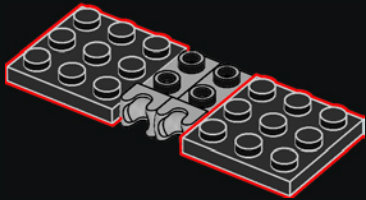




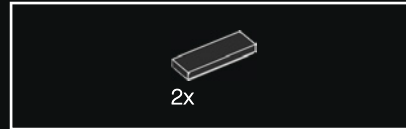
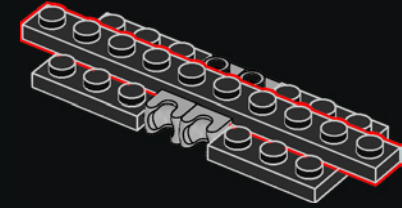
114



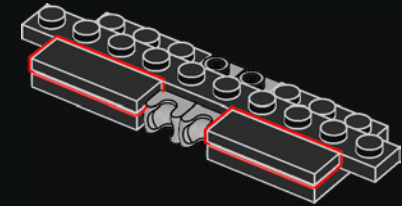
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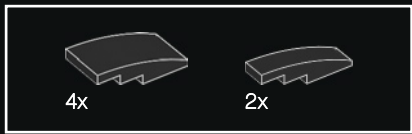


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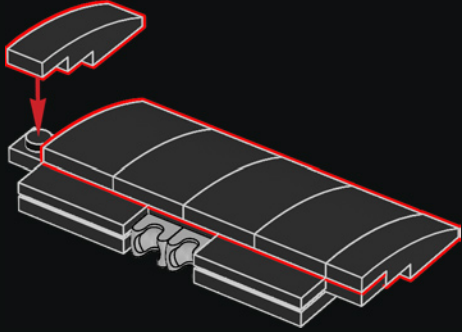


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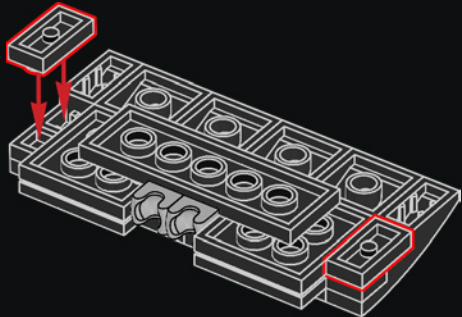




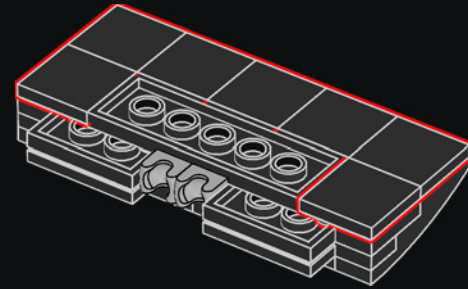
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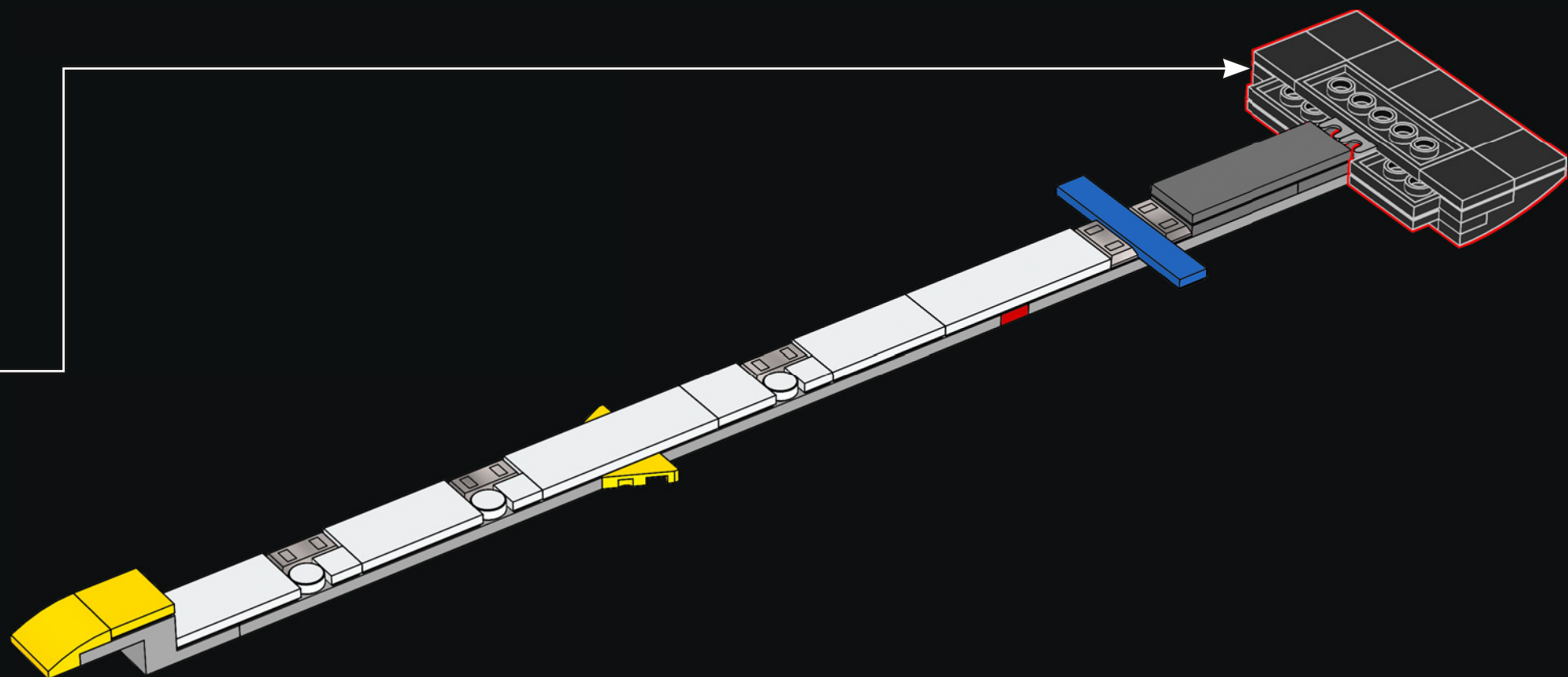
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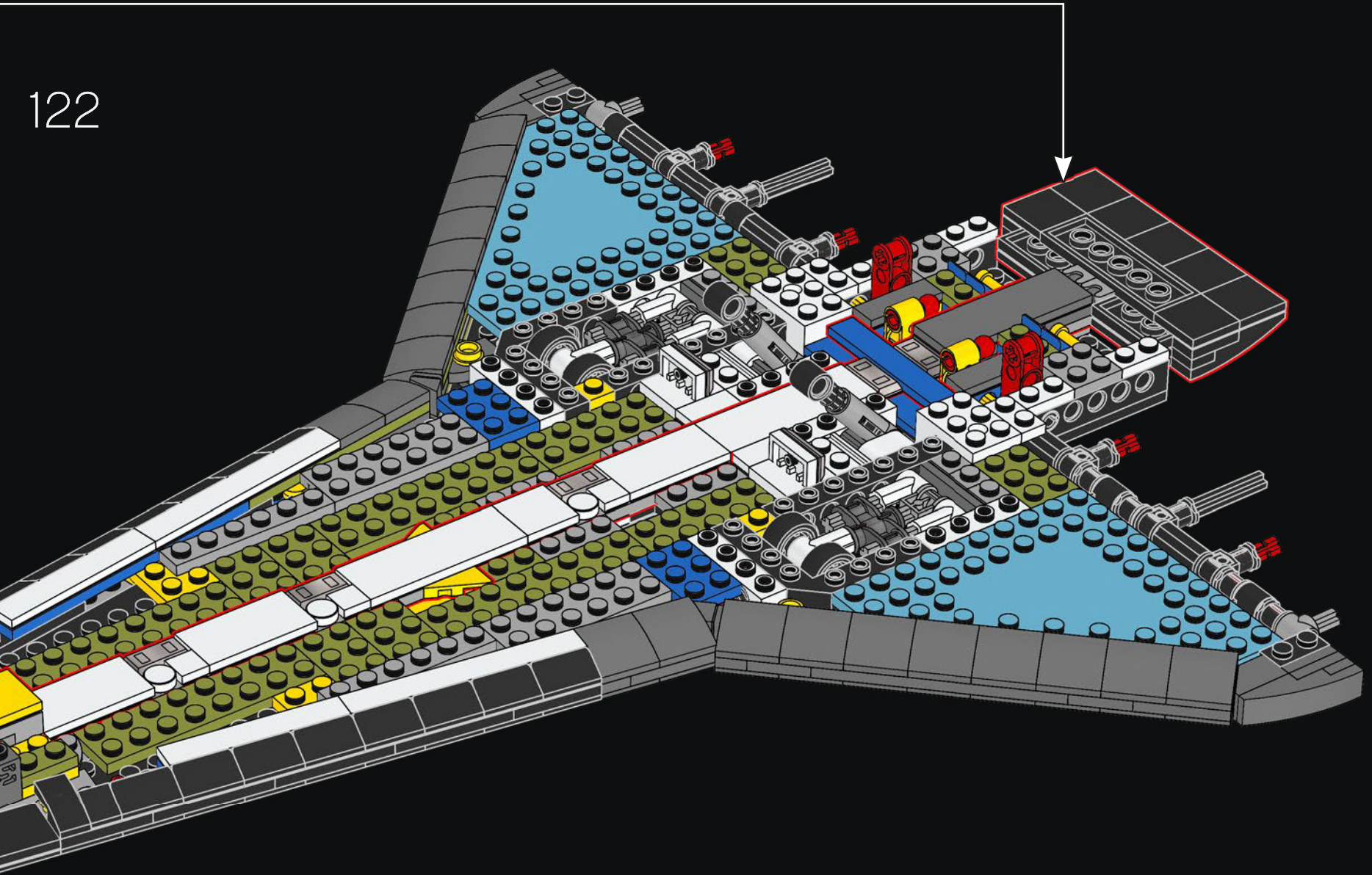
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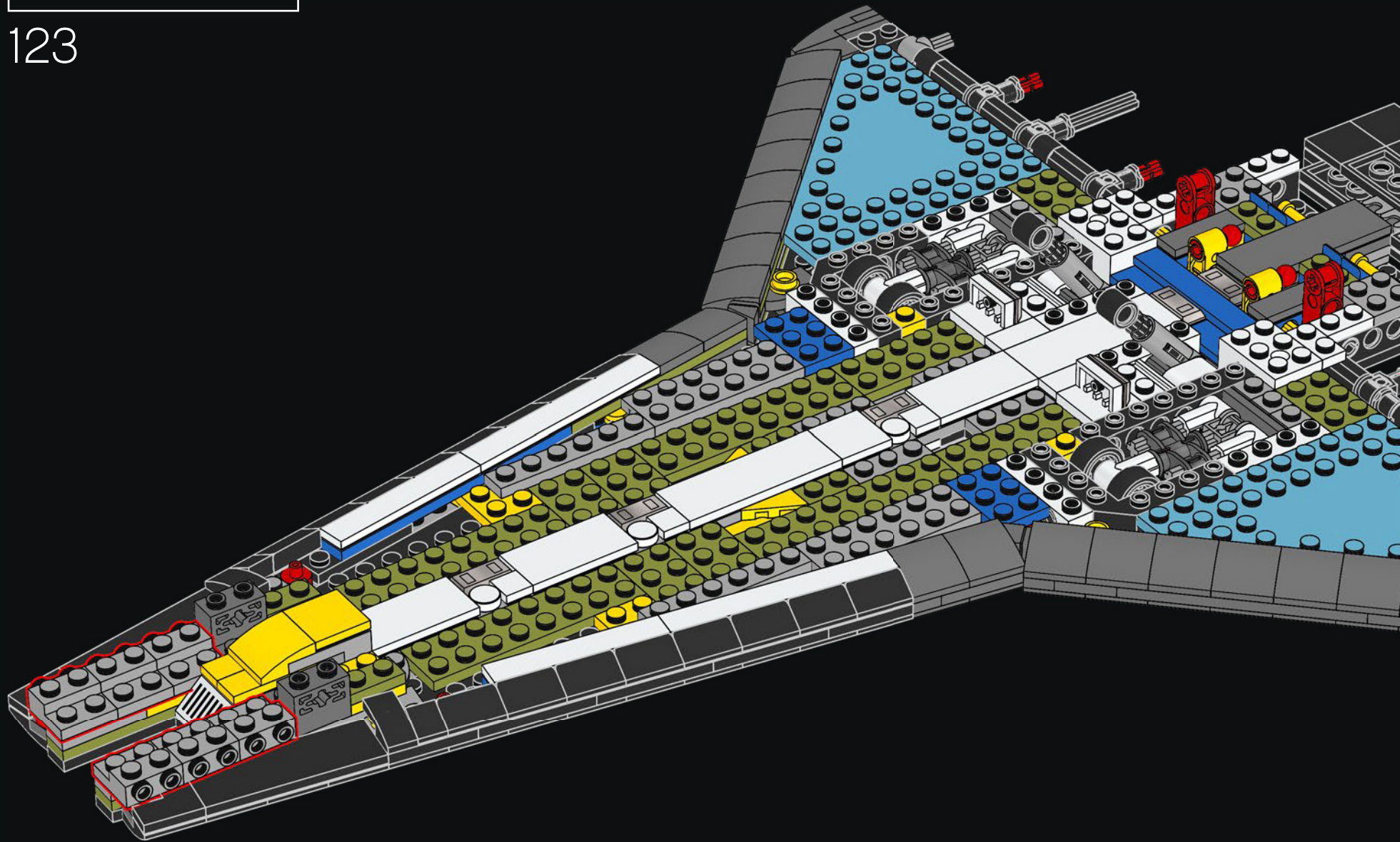


122





123

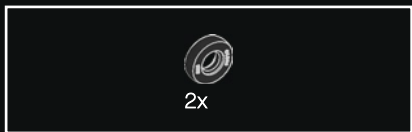




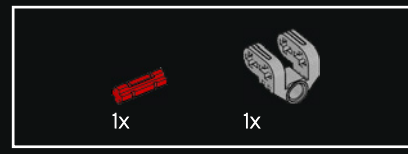
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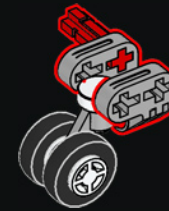
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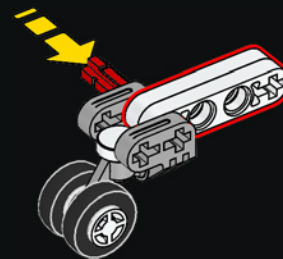
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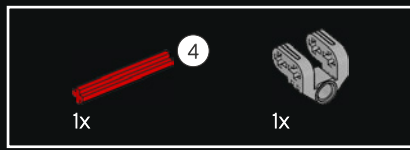


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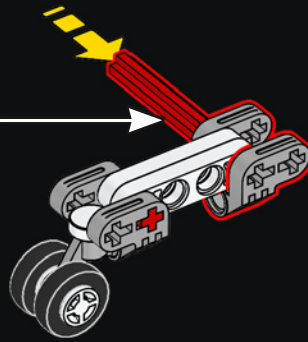
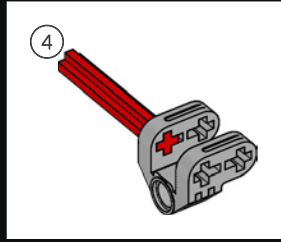


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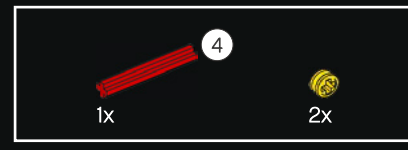
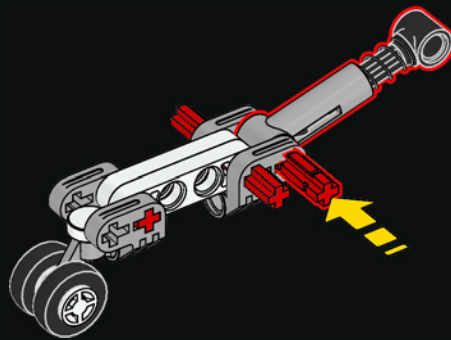




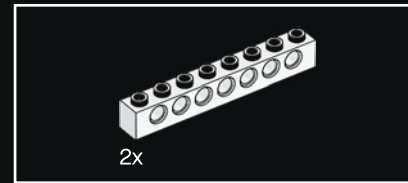
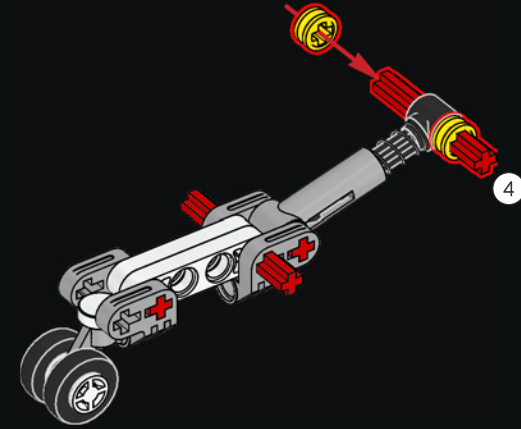
129



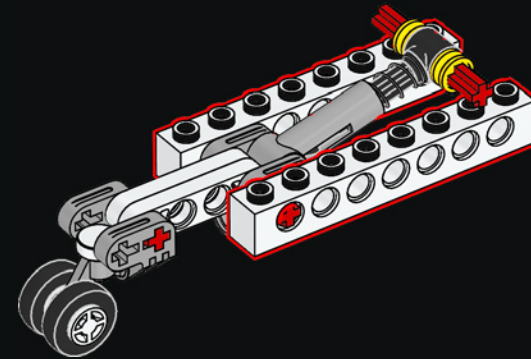
130



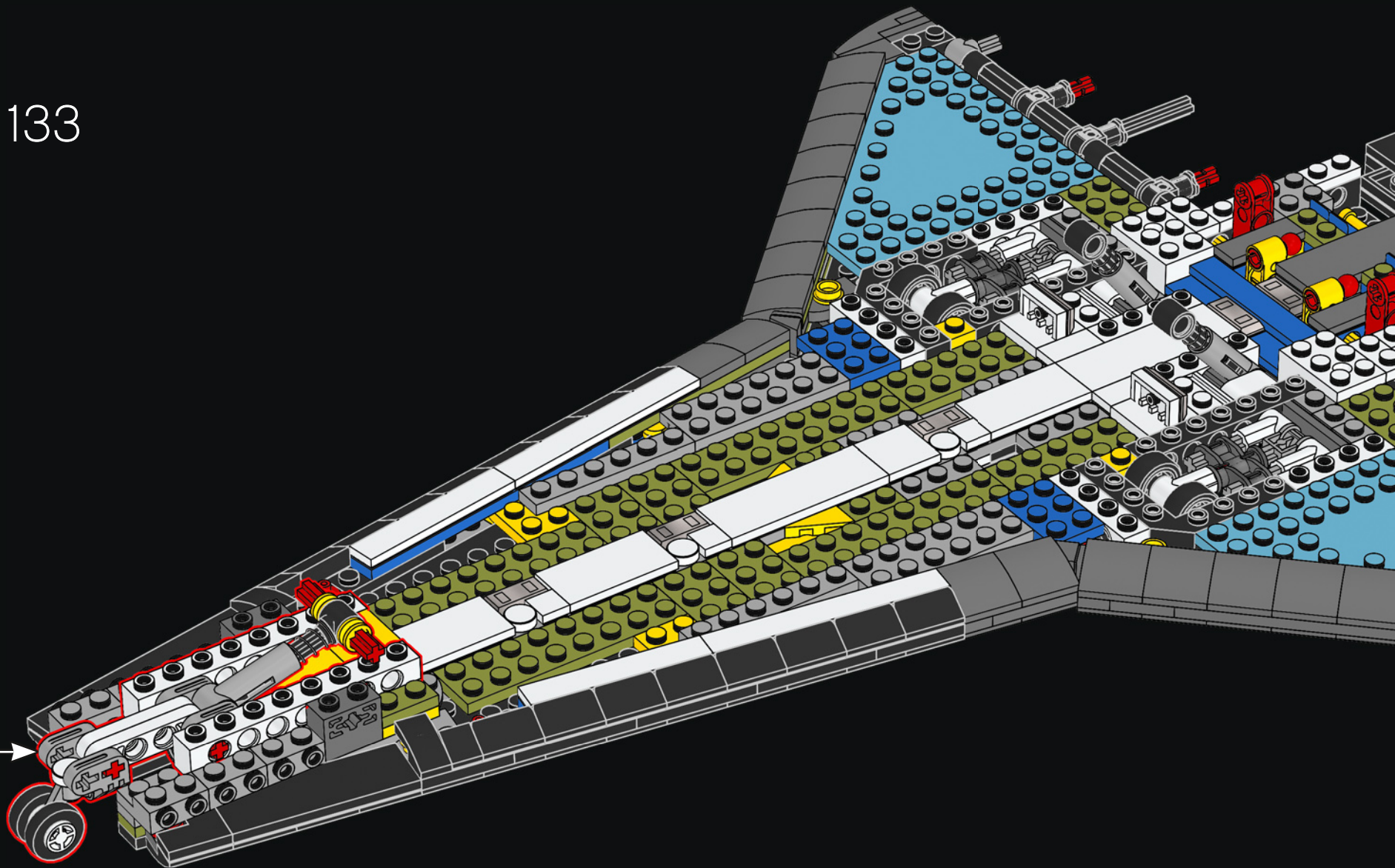
131



132

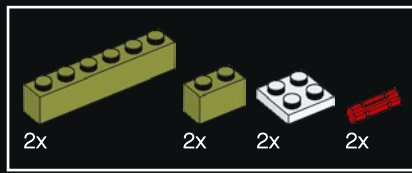


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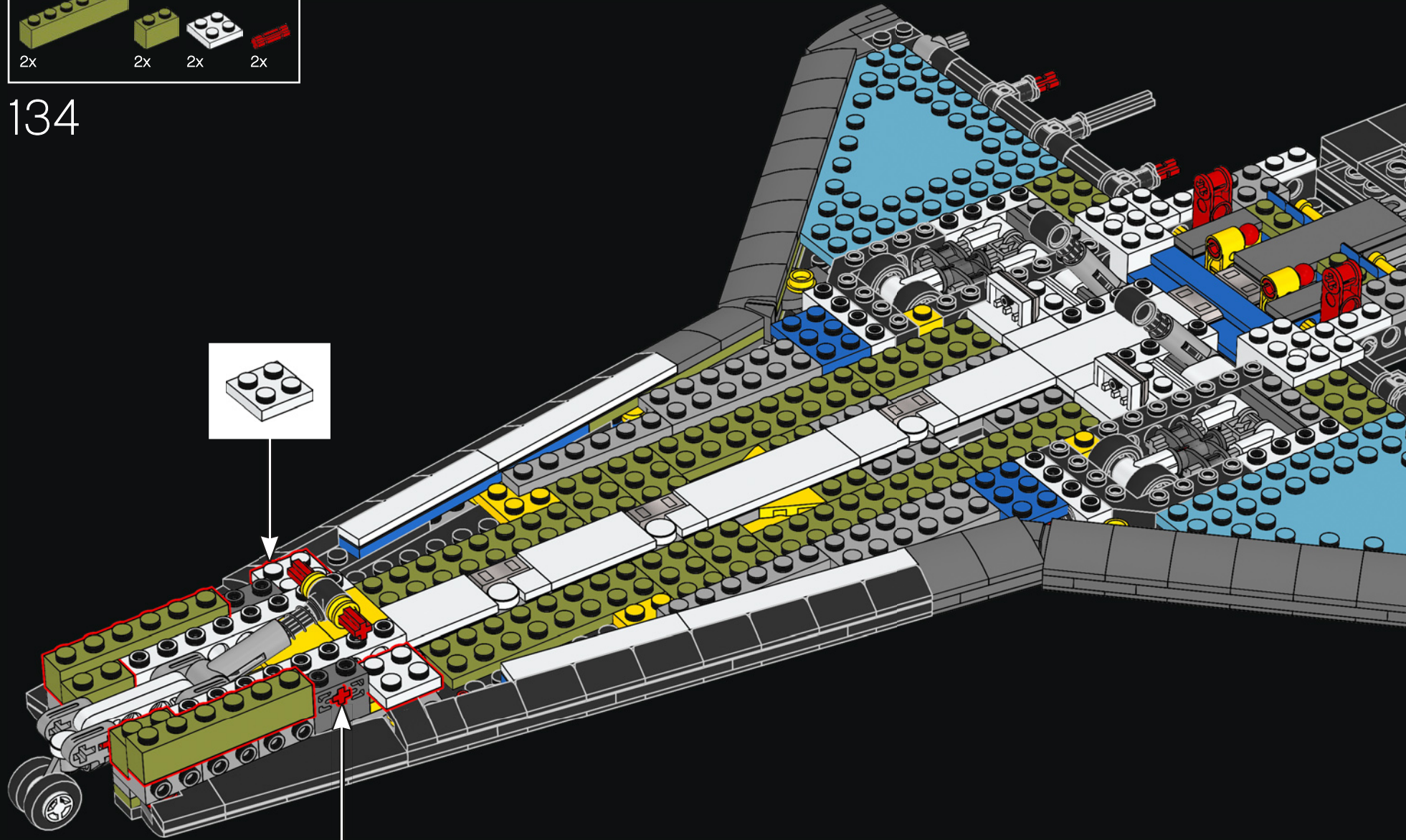


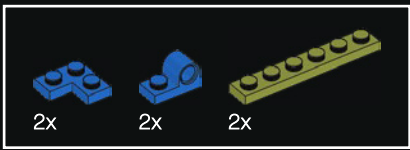
DID YOU KNOW?

As a glider, the Shuttle only had one chance to land. Once the landing gear was deployed, it could not be retracted.

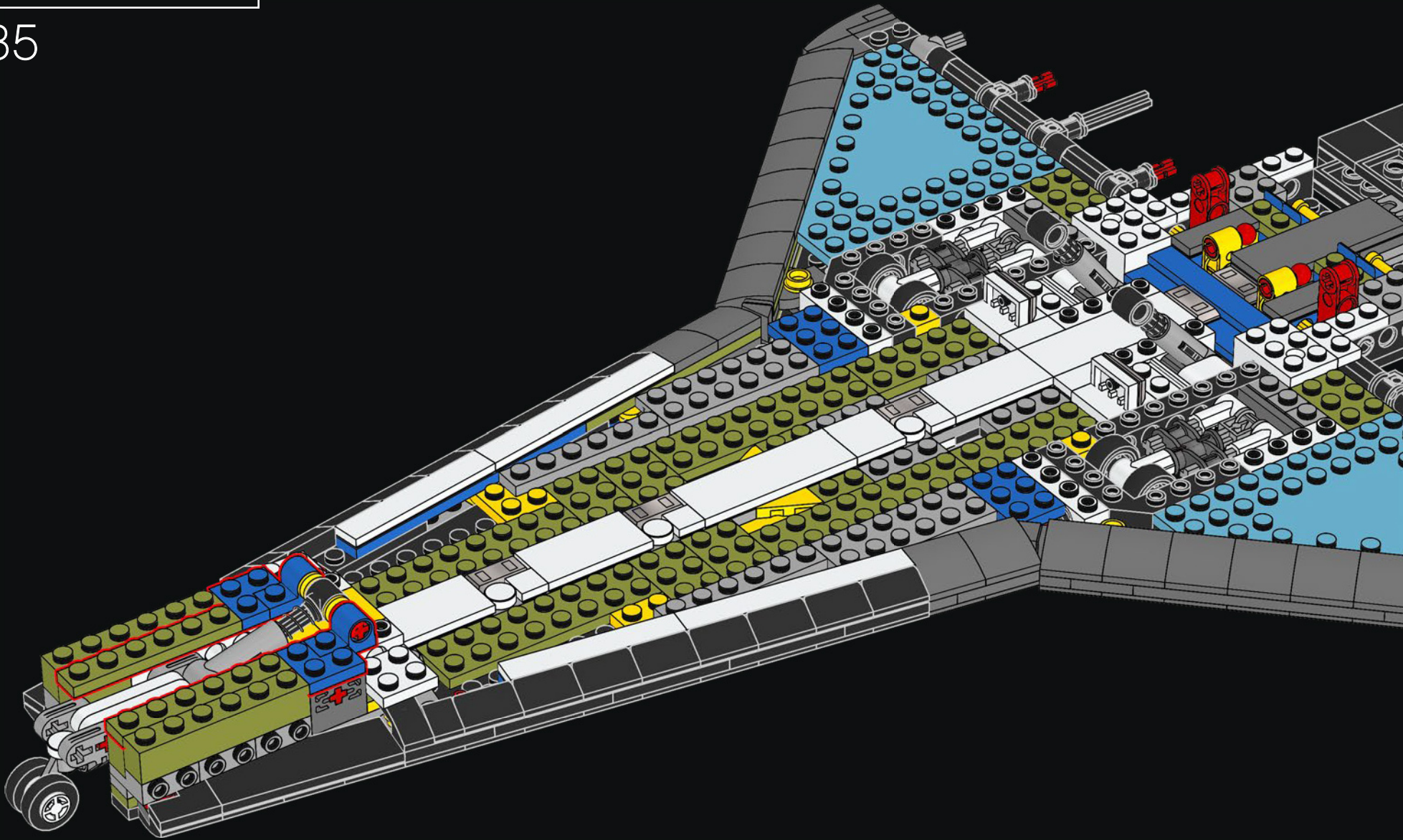


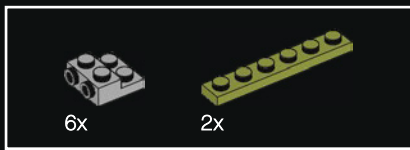
134



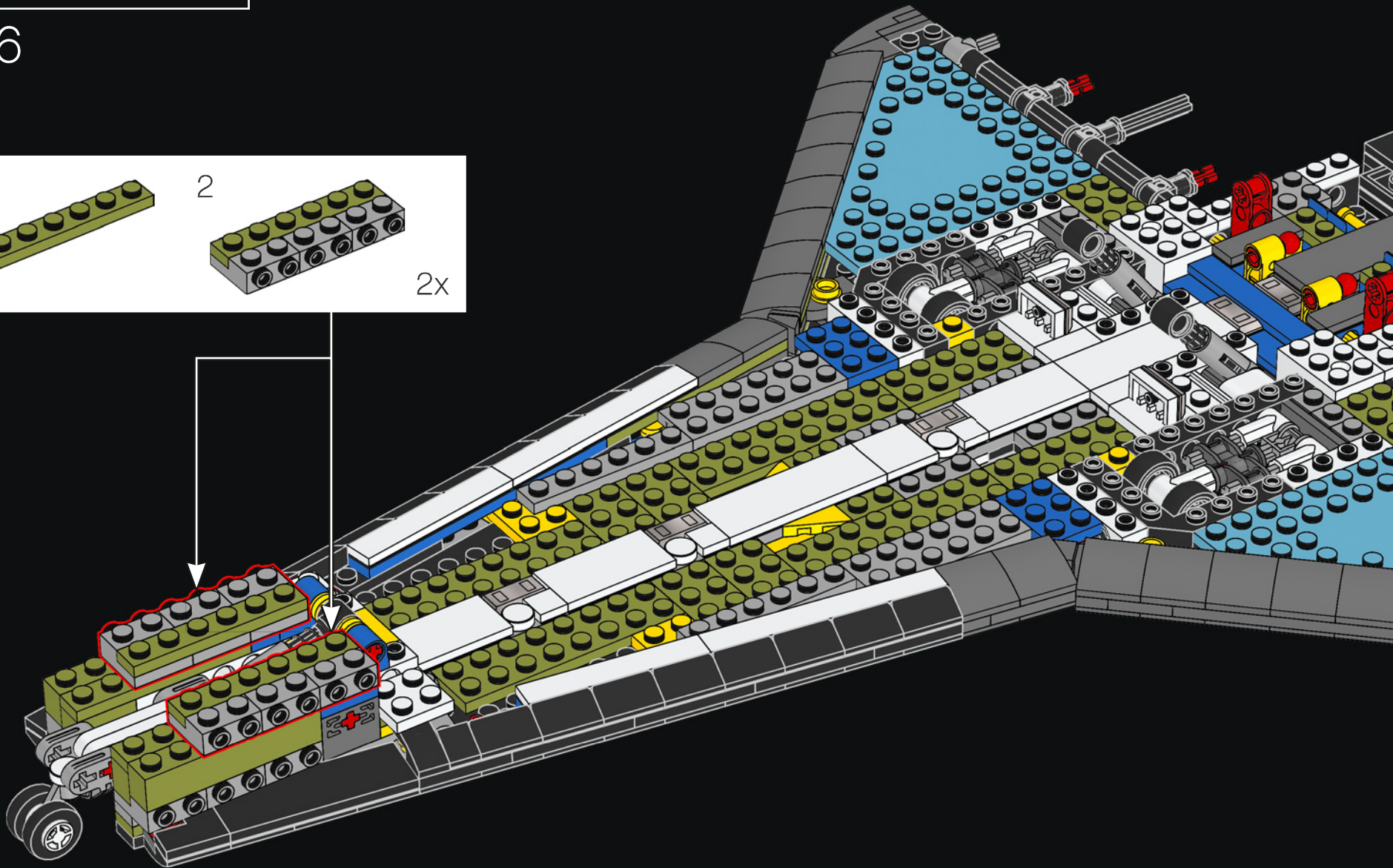
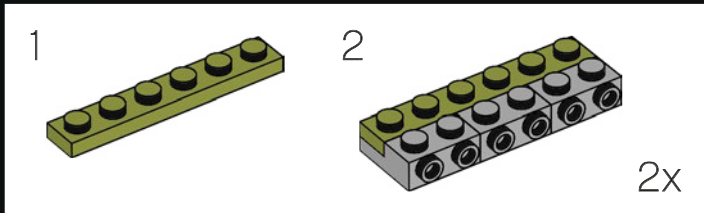


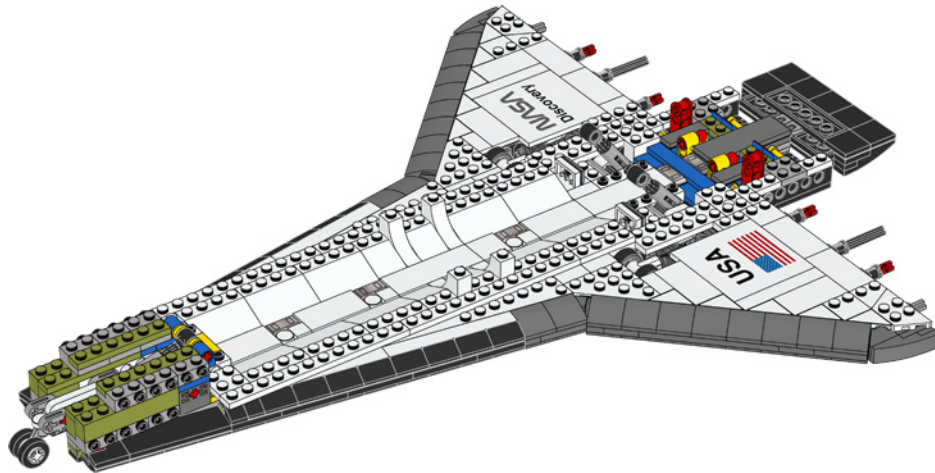
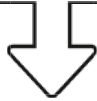
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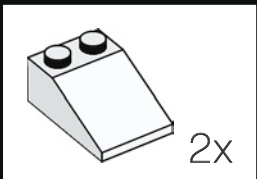
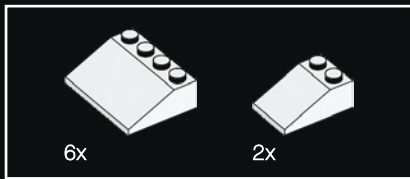




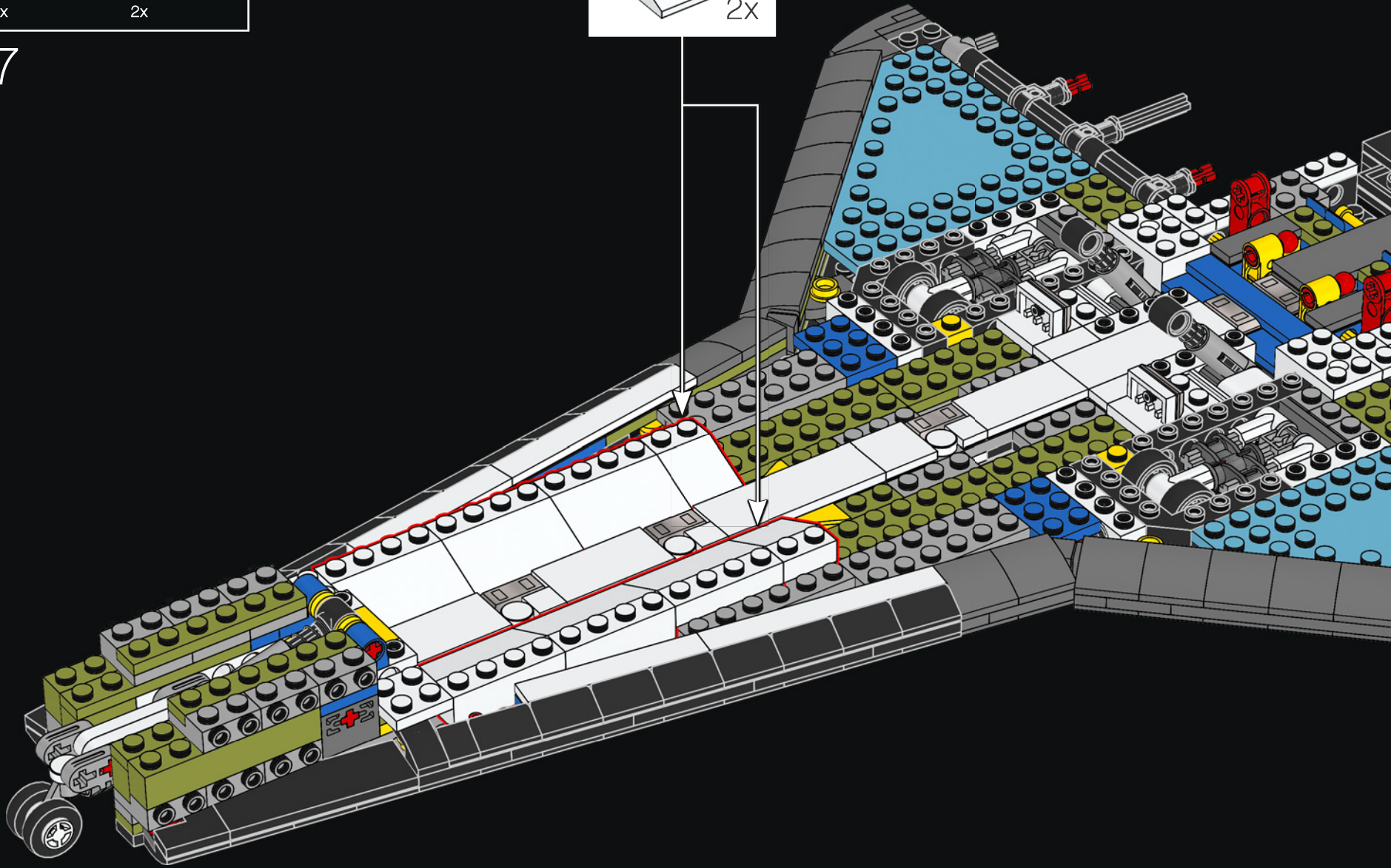
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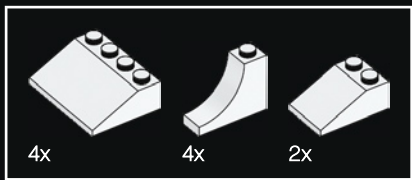




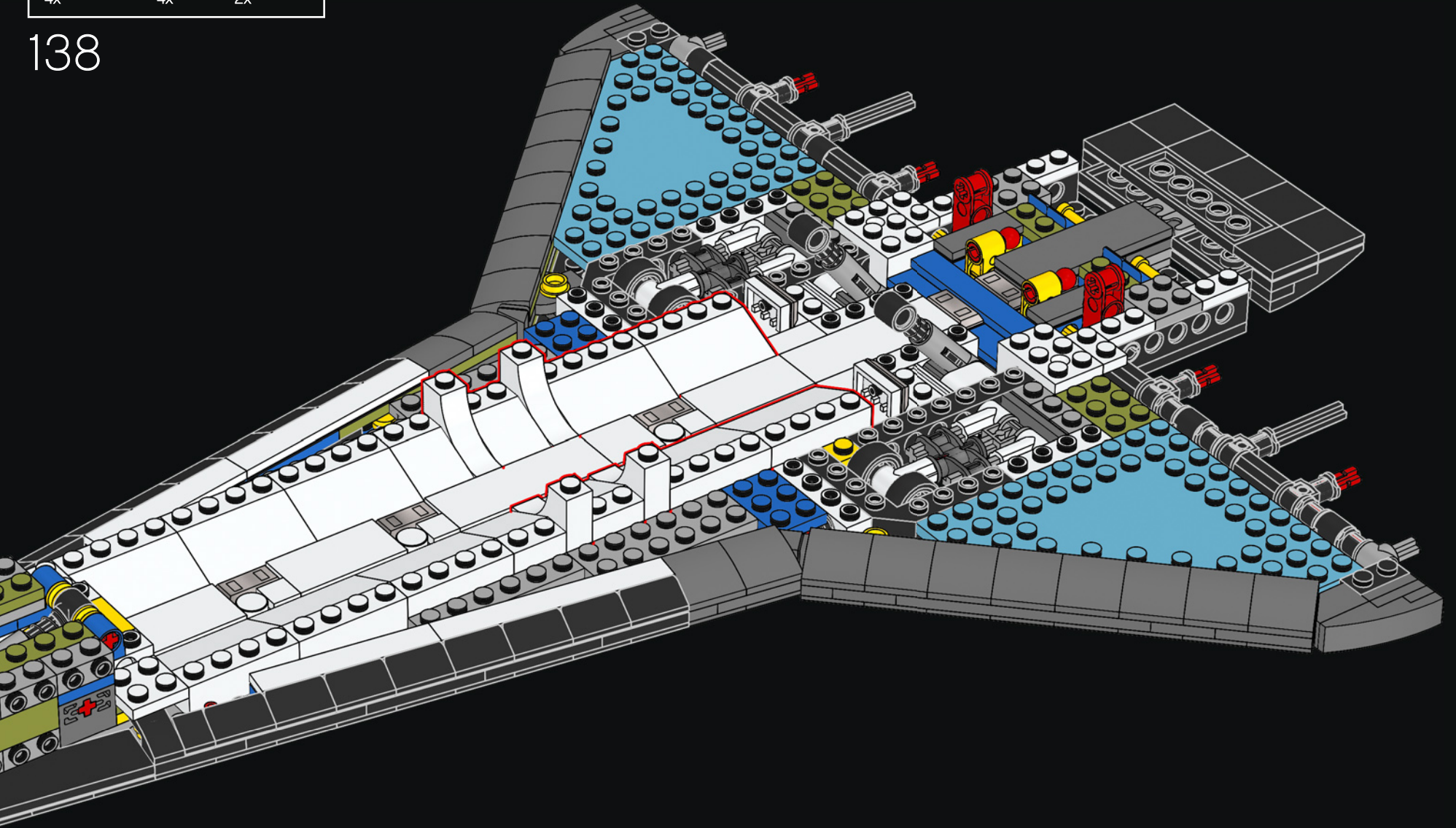


137



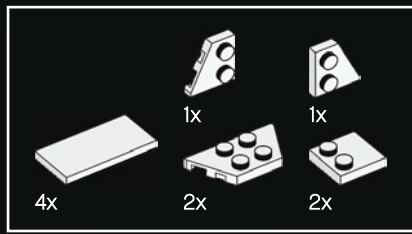


138

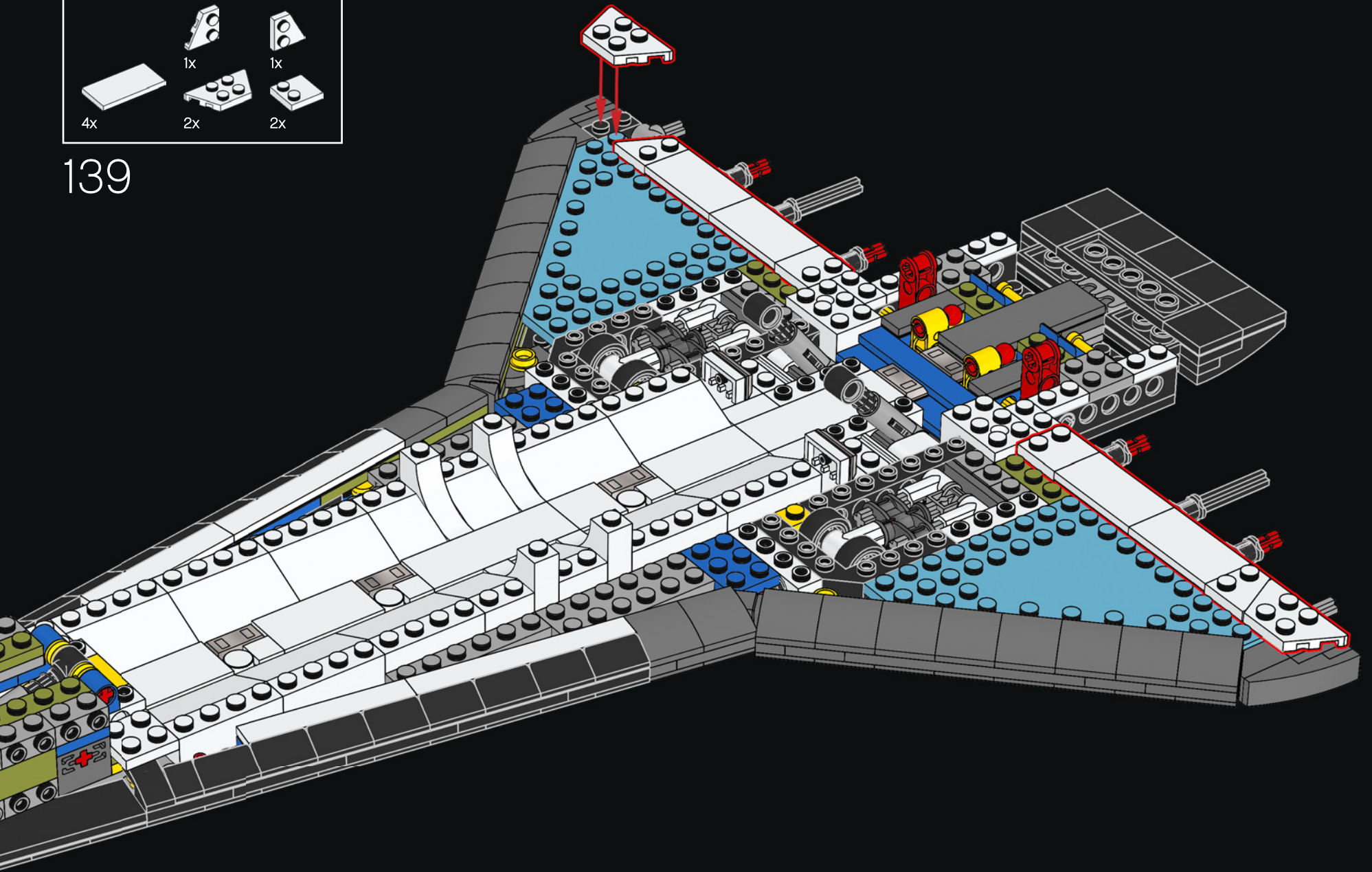


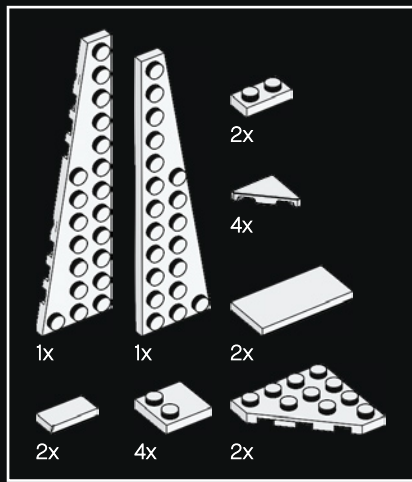
DID YOU KNOW?

When the Orbiter enters the atmosphere at Mach 25, its velocity is so high that it super-heats the surrounding air and returns to the Earth in the glow of plasma.

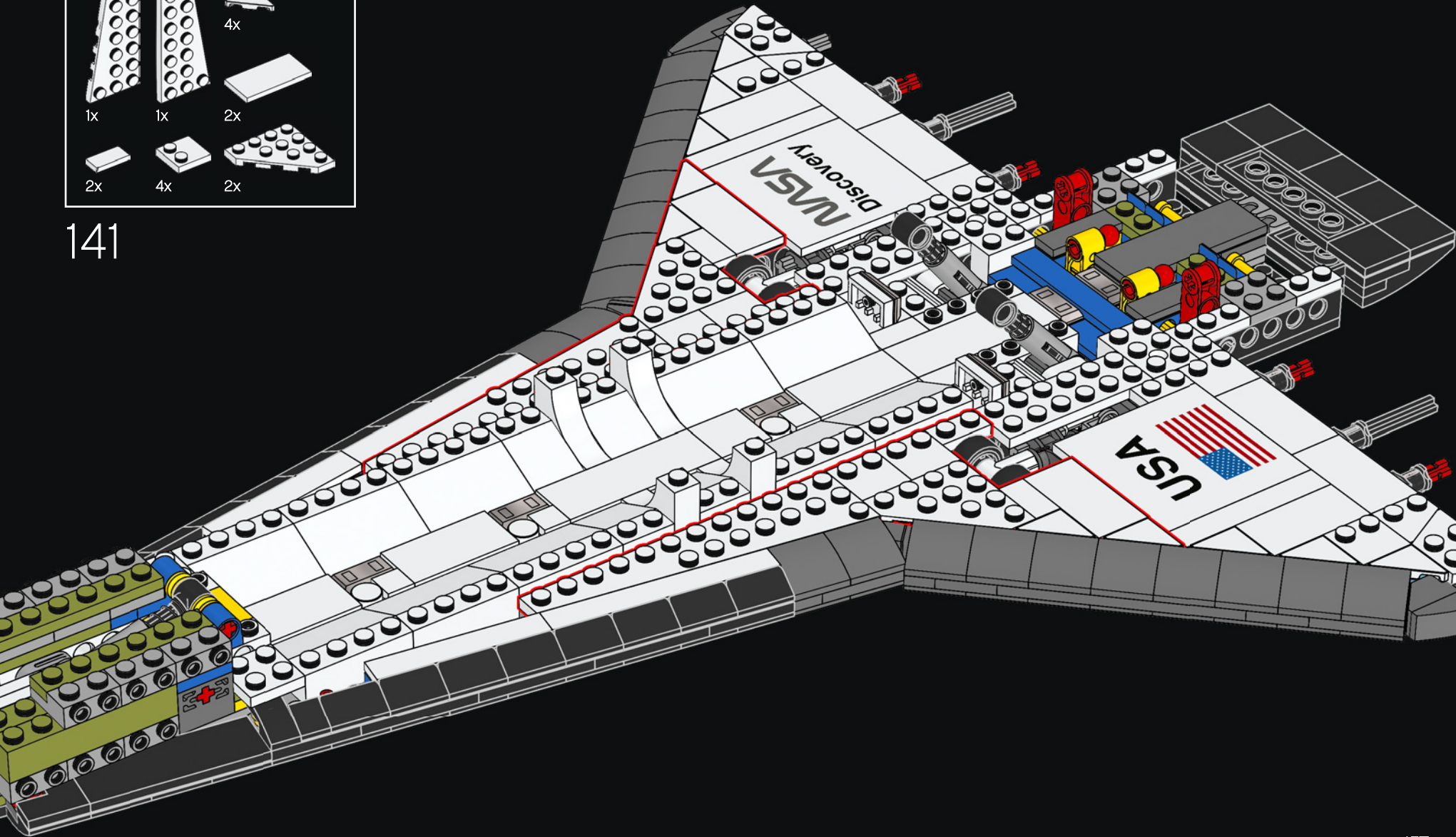


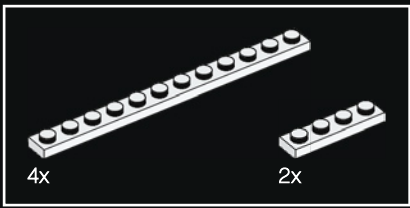
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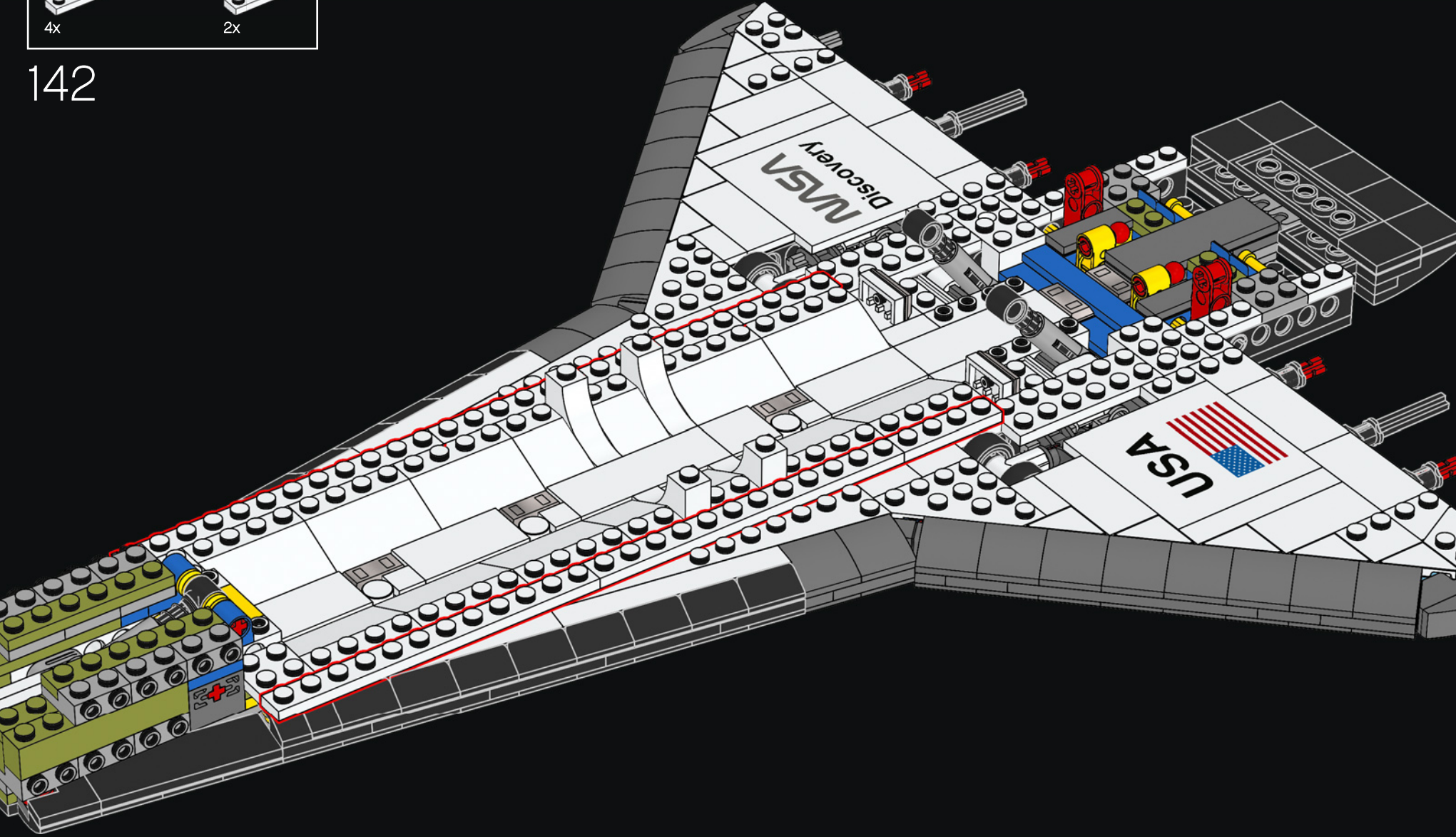


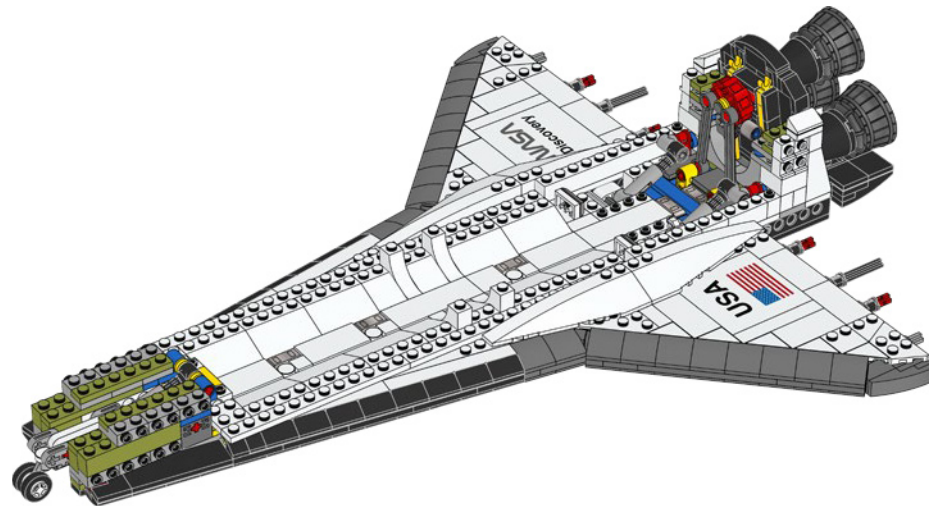
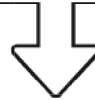
141





142

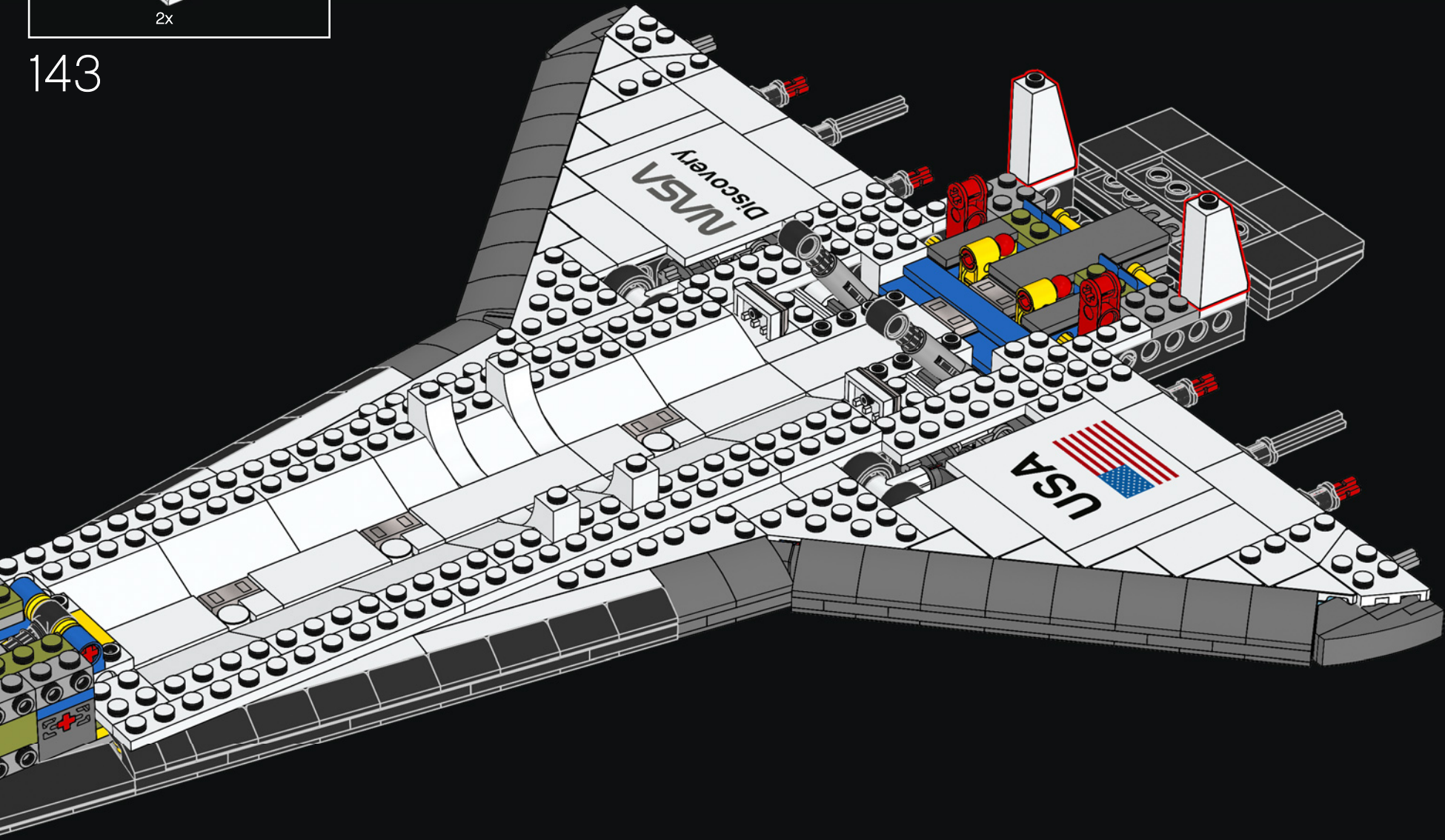






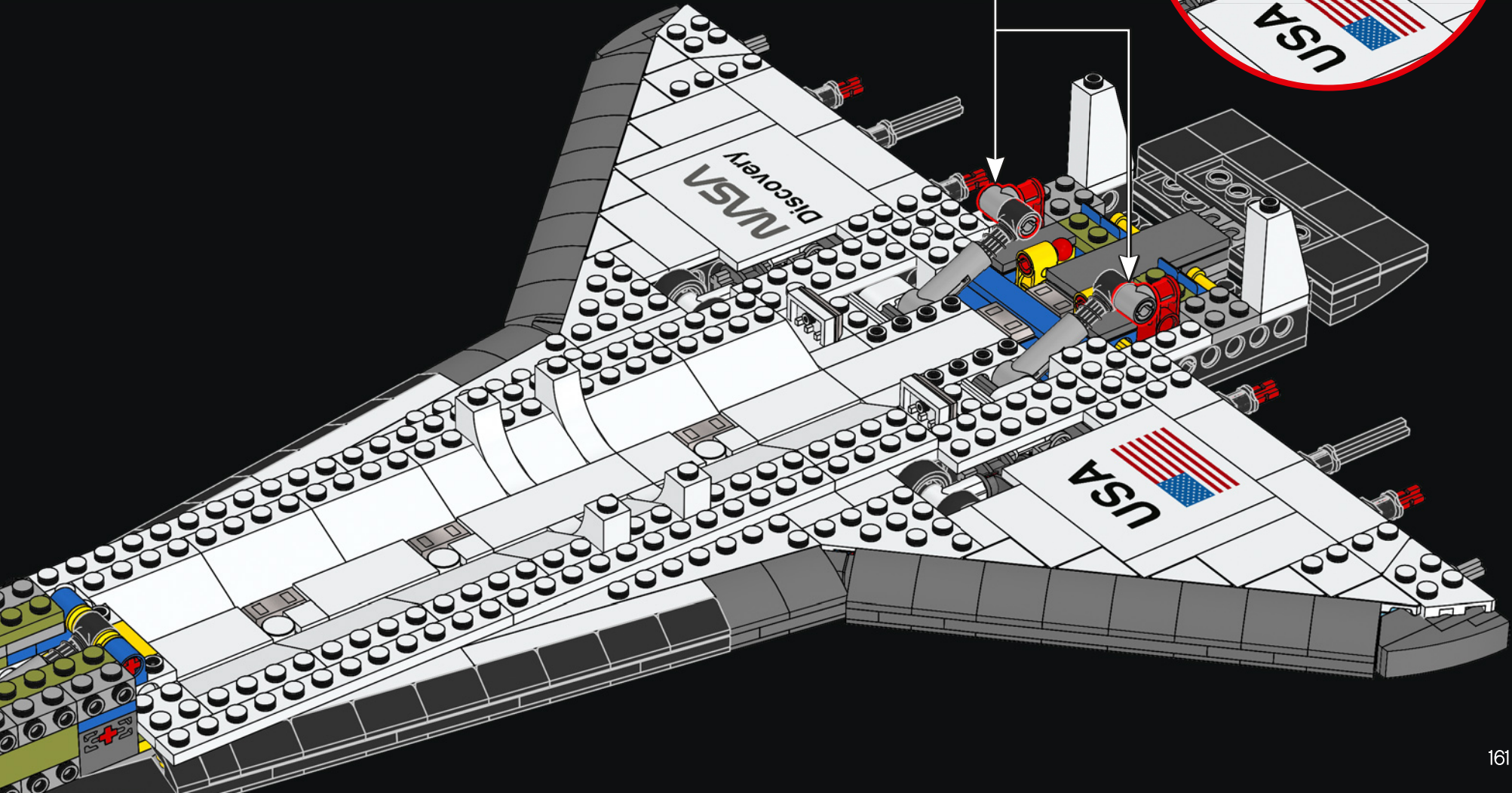
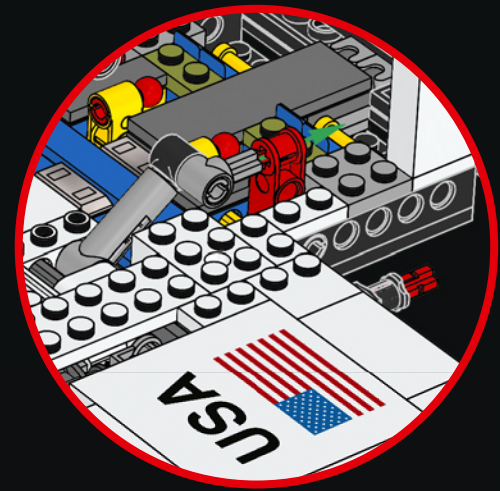
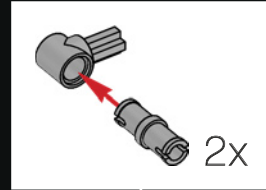
2x

143



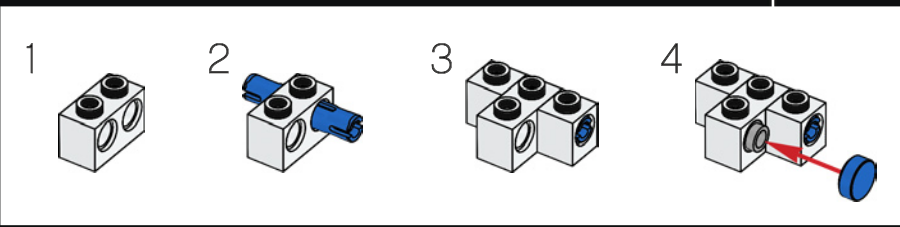
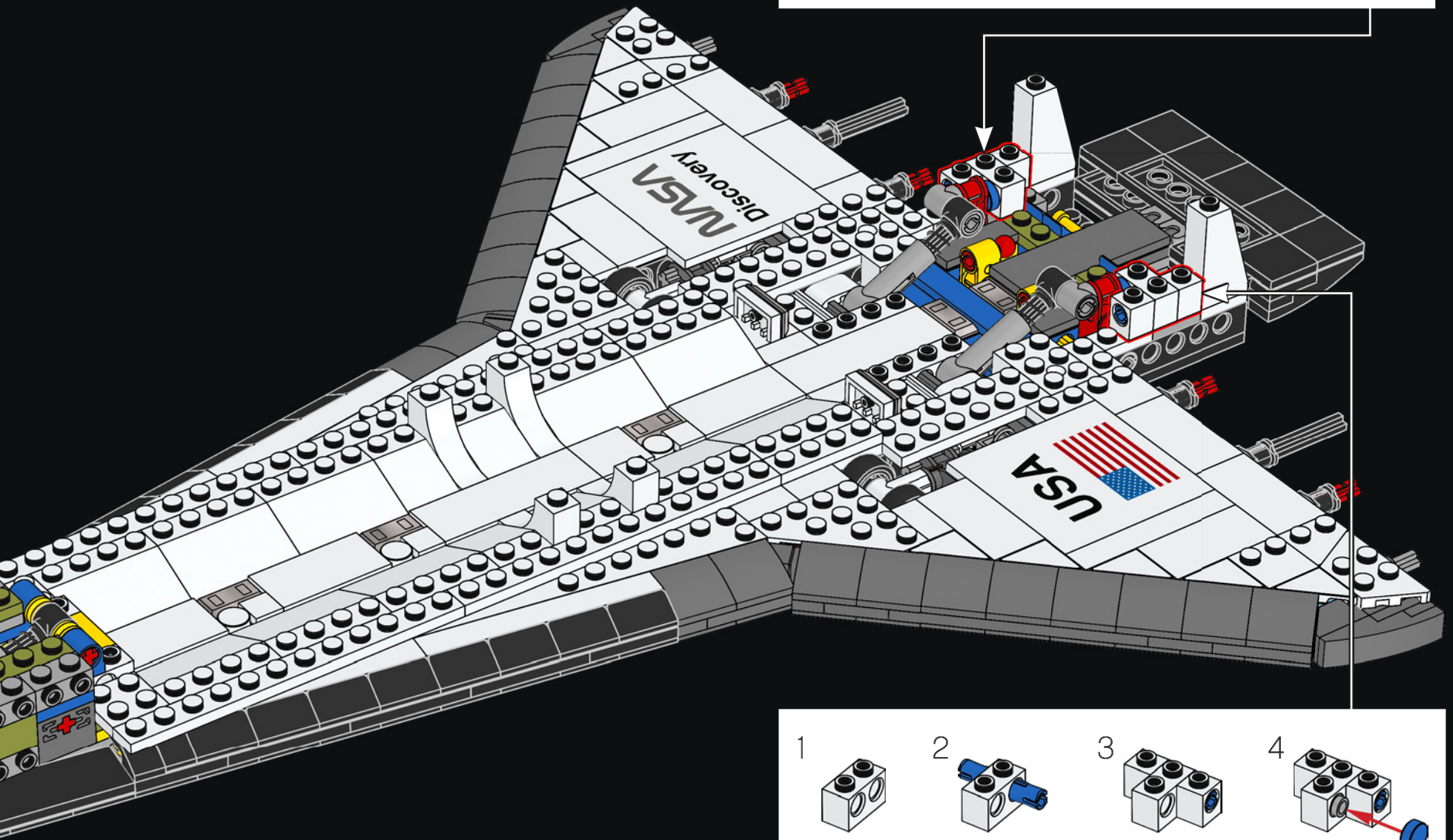
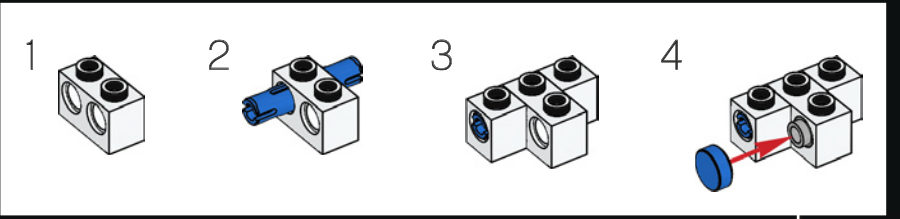


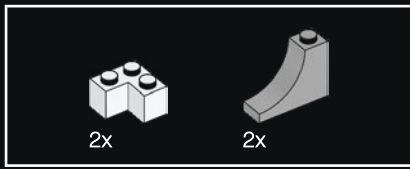
144



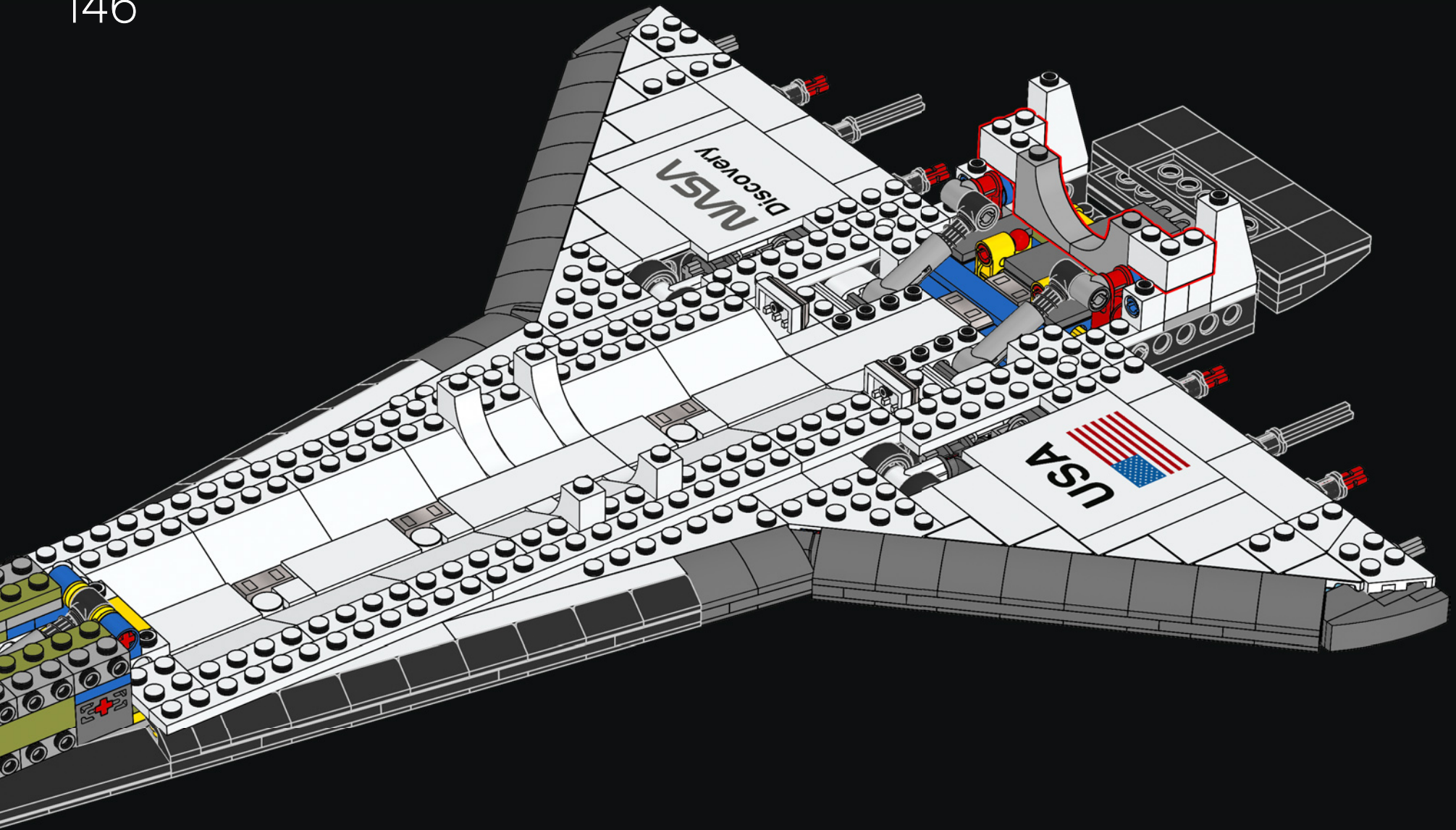


145



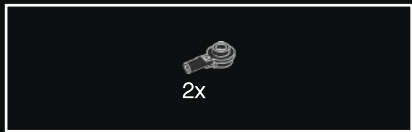


146





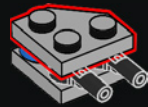
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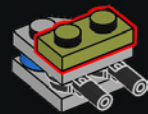
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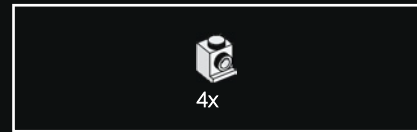
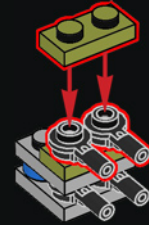
149



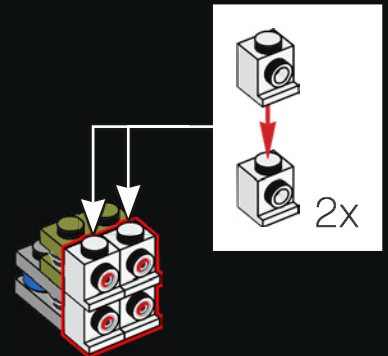
150

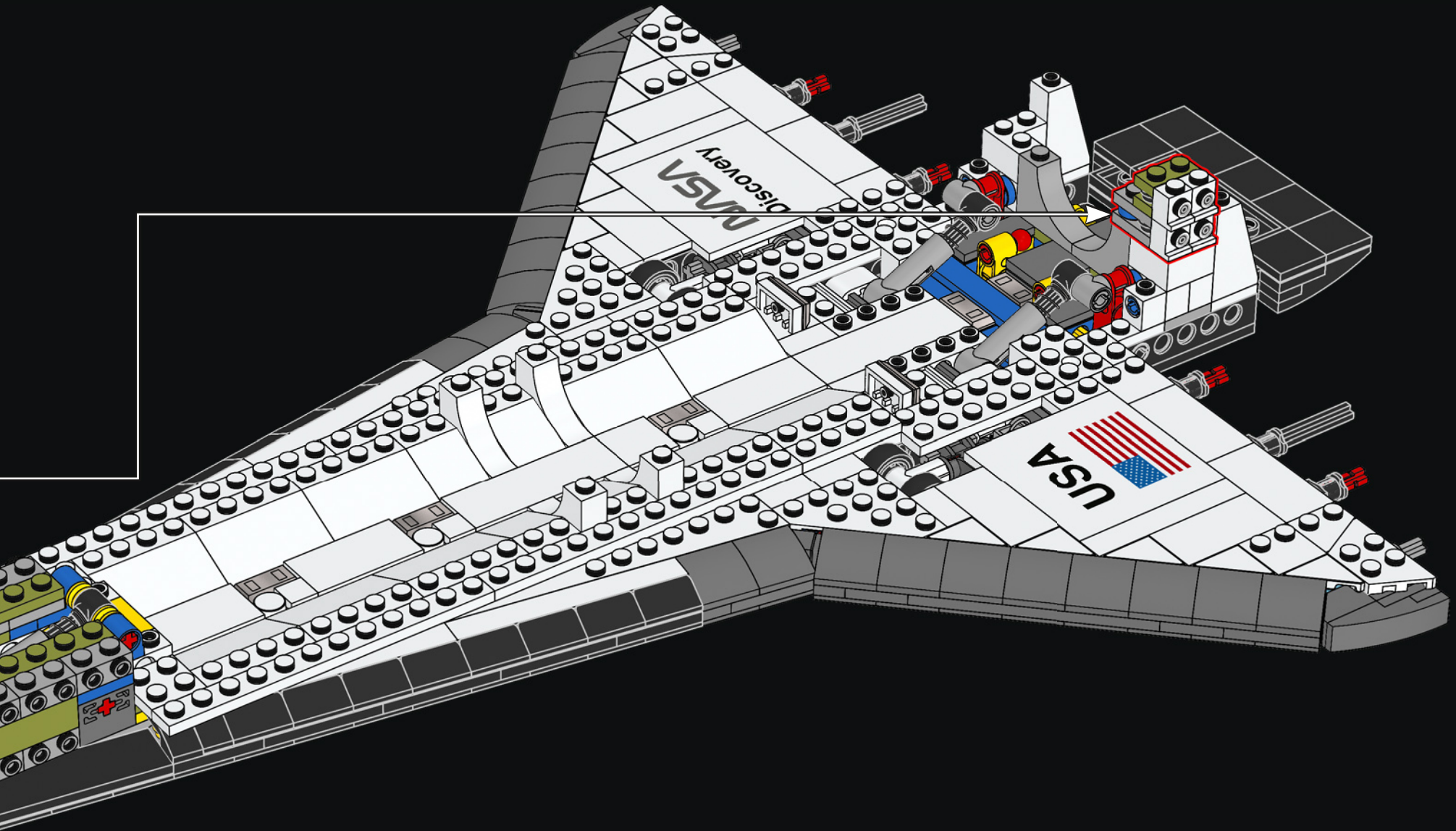


151



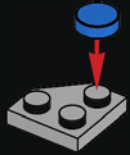
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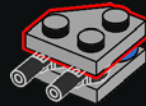
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155



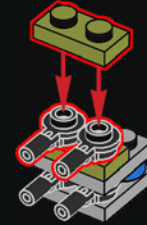
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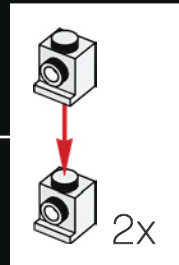
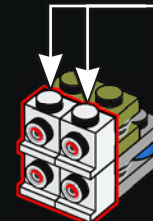
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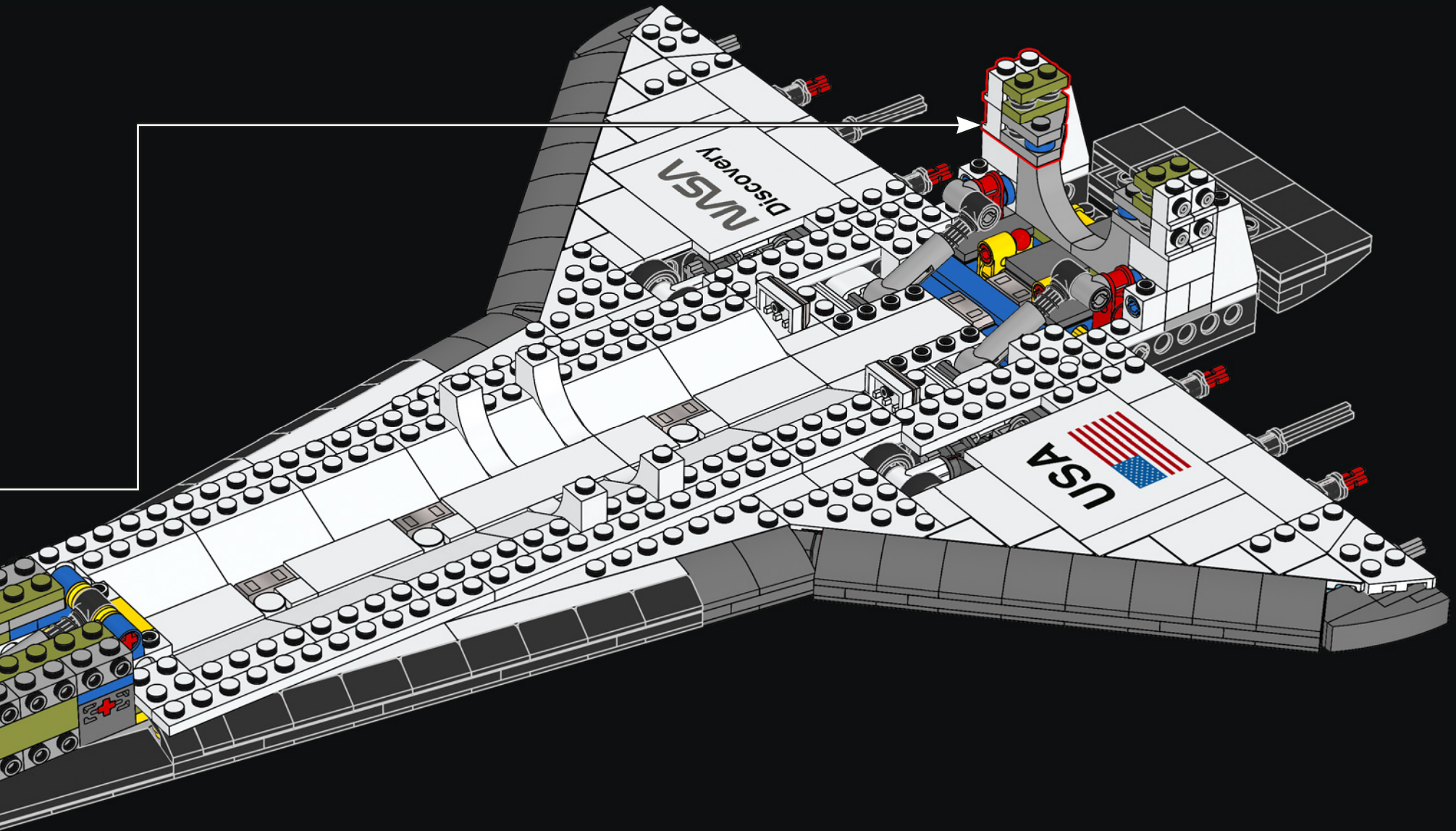


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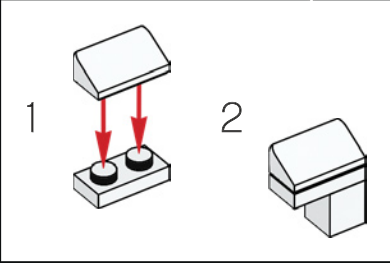
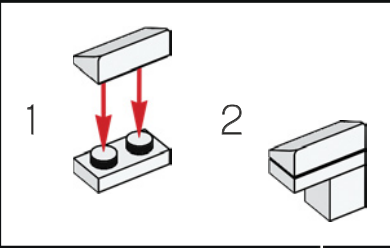
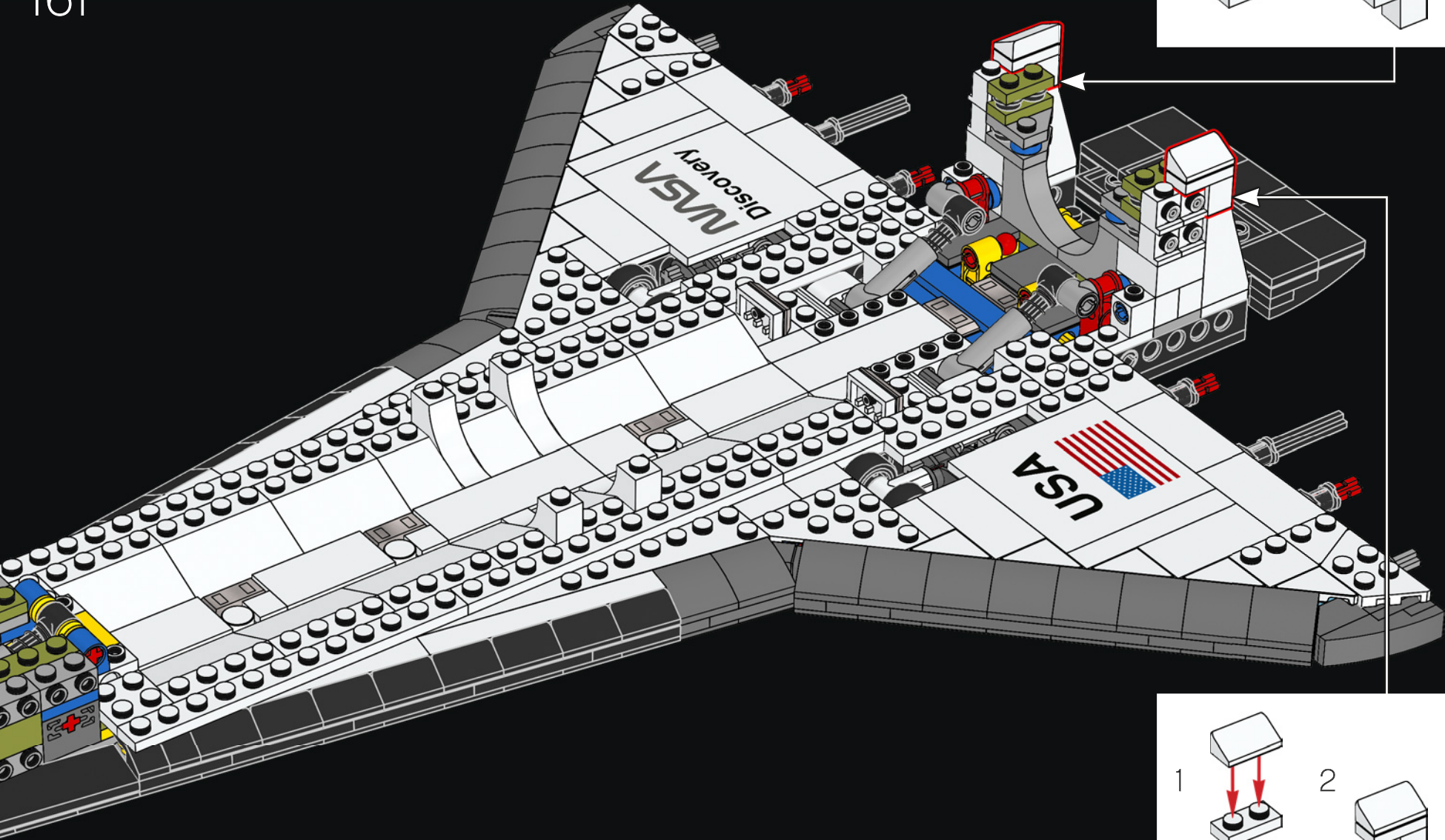
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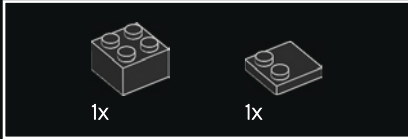
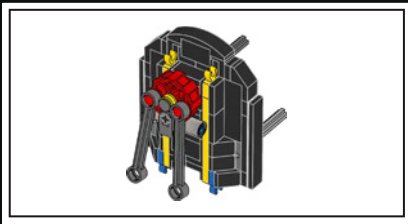




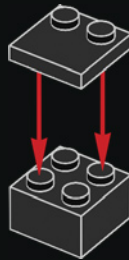


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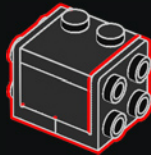




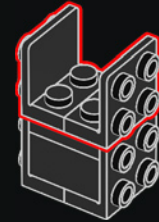
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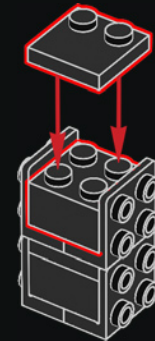
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164

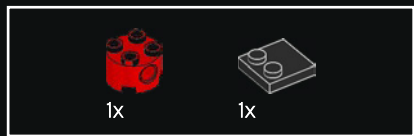


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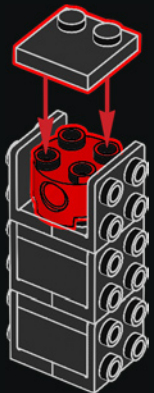




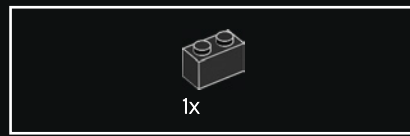
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167



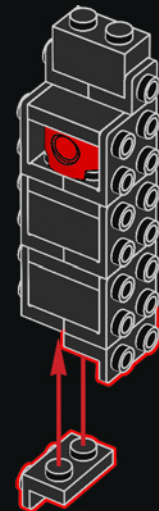
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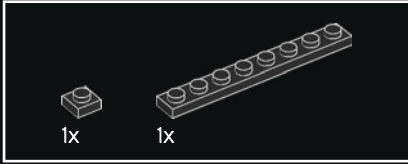
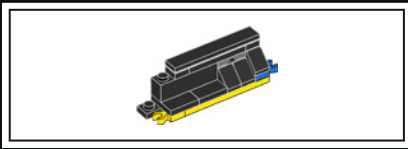


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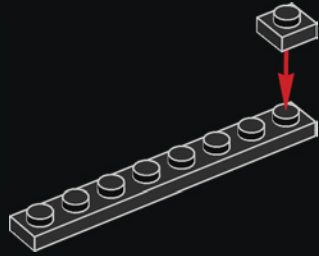


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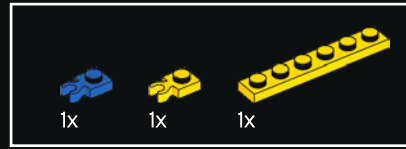
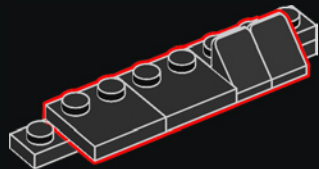




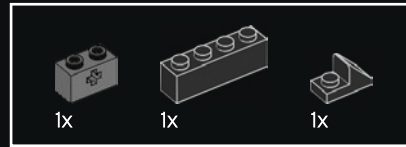
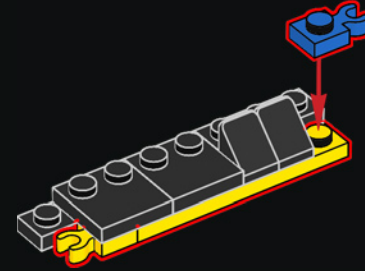
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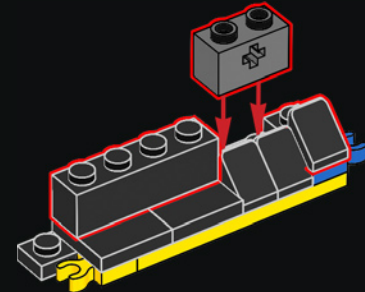
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173

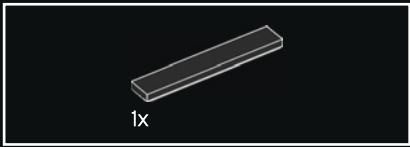
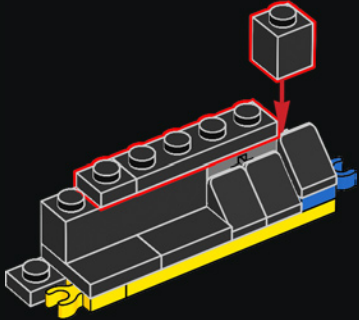


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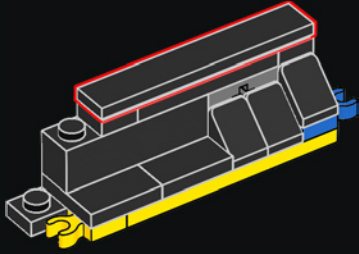




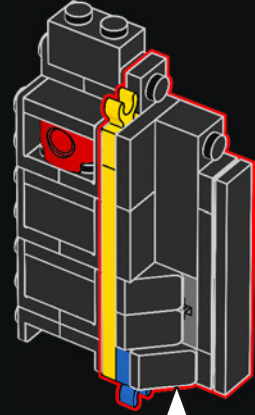
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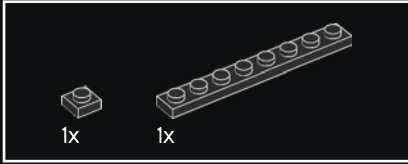
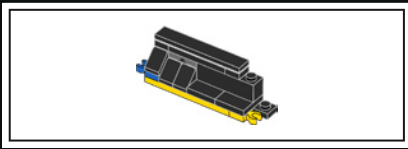


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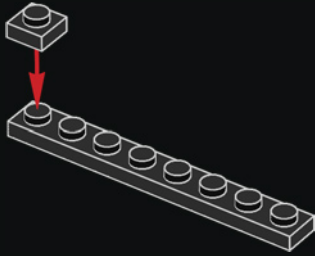


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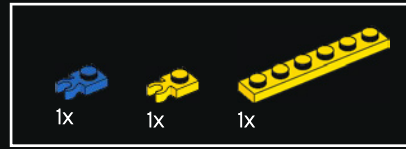
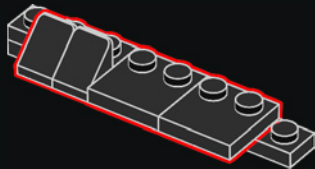




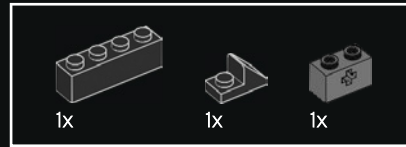
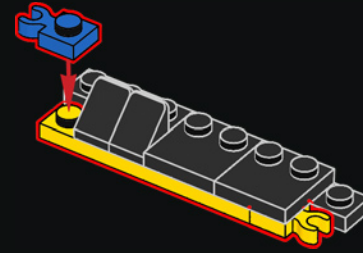
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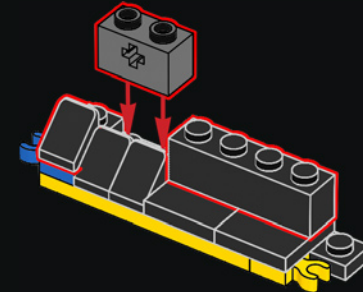
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180

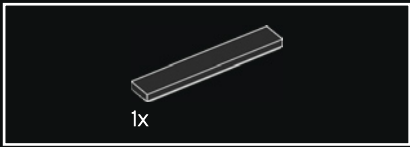
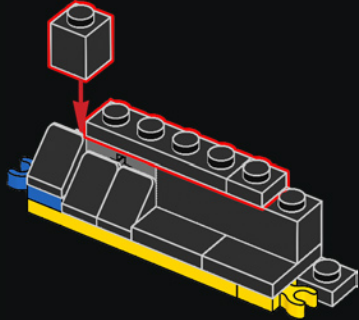


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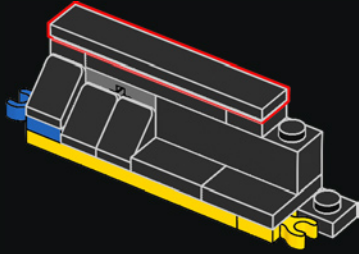




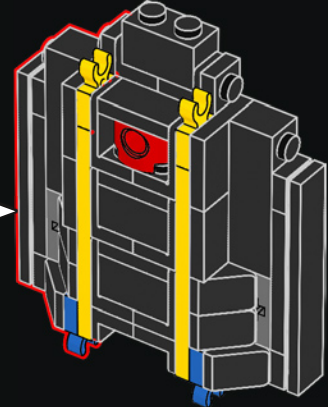
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183

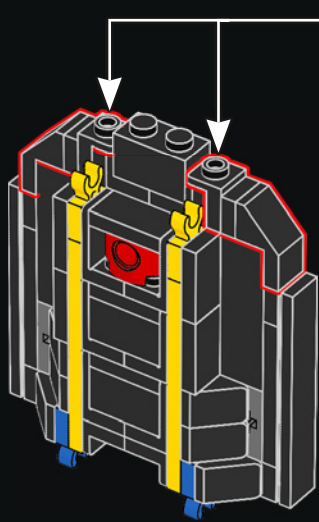
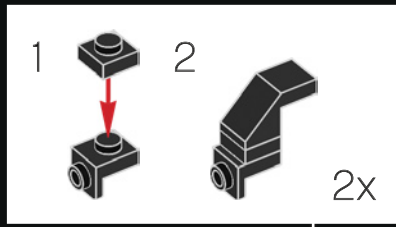


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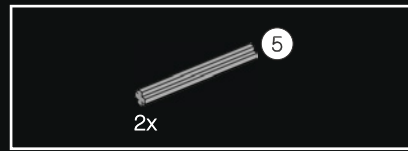
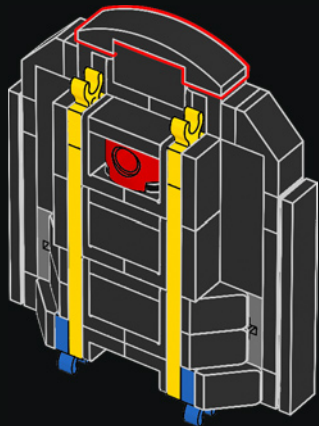




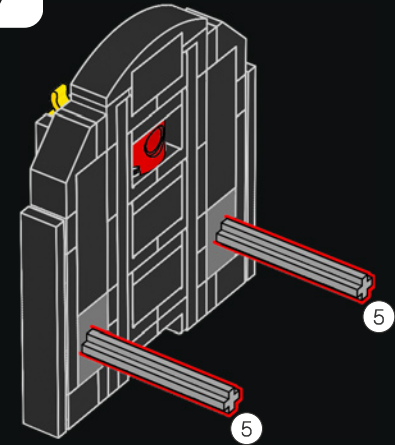
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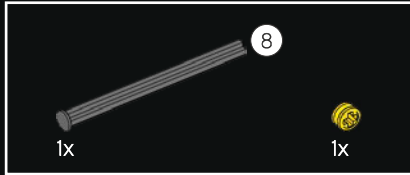
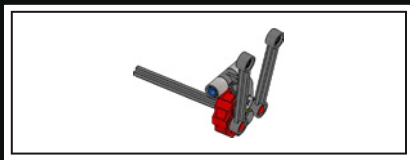


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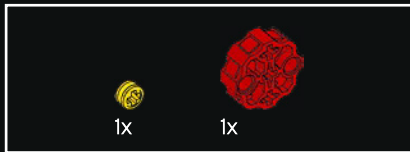
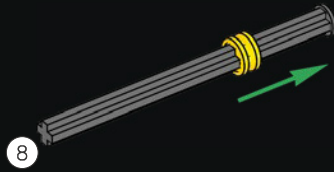


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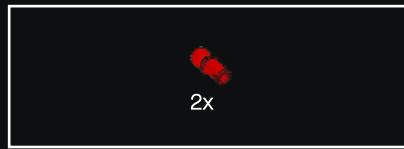
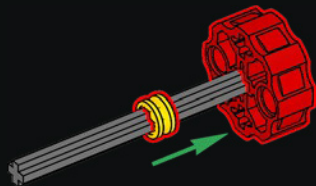




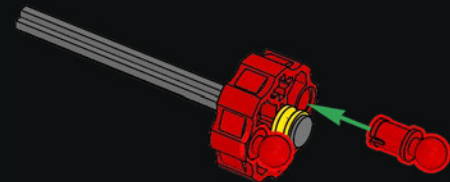
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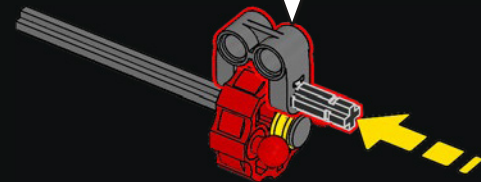
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190

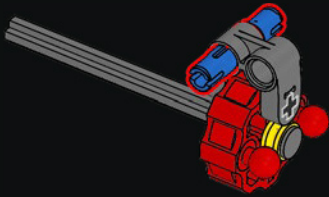


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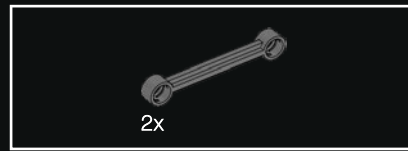
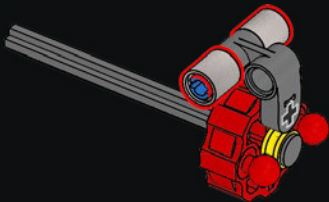




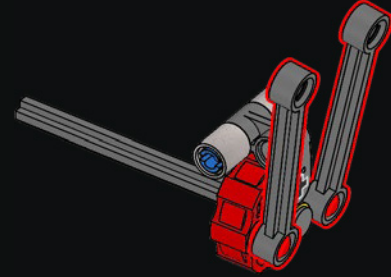
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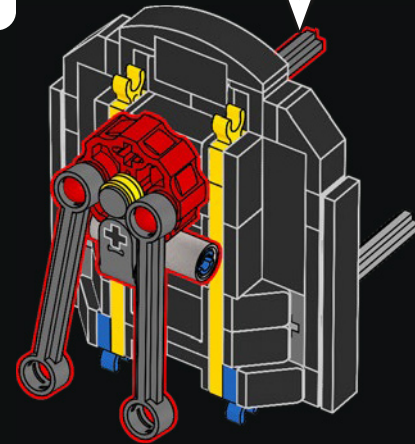
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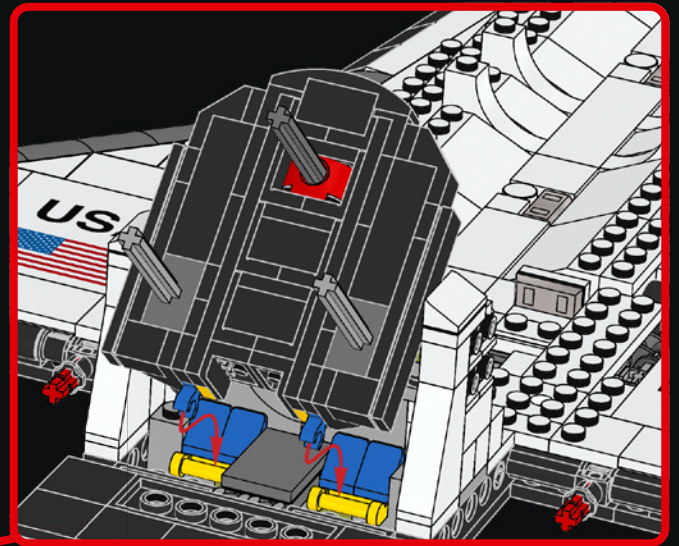
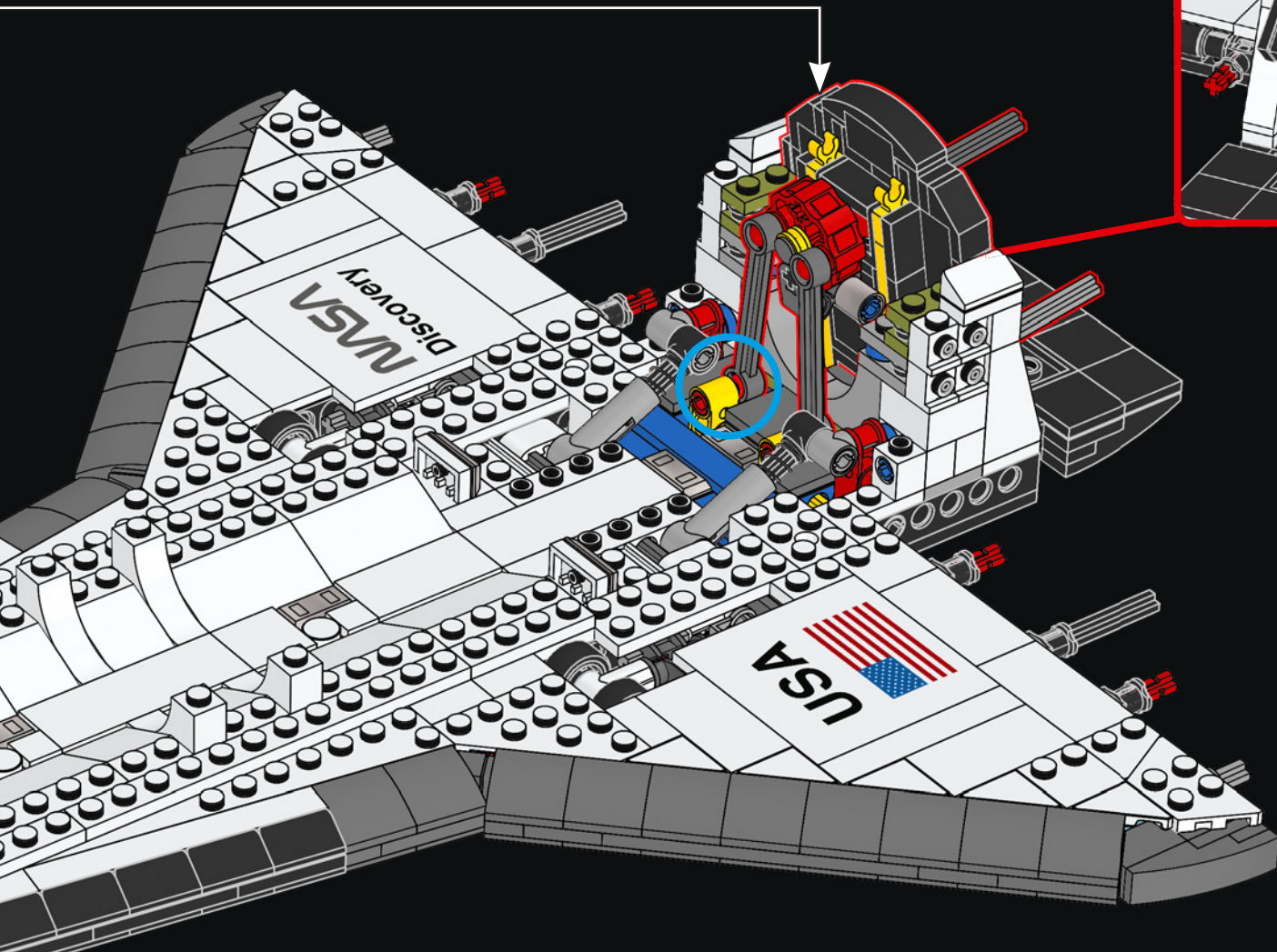


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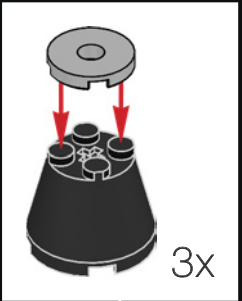
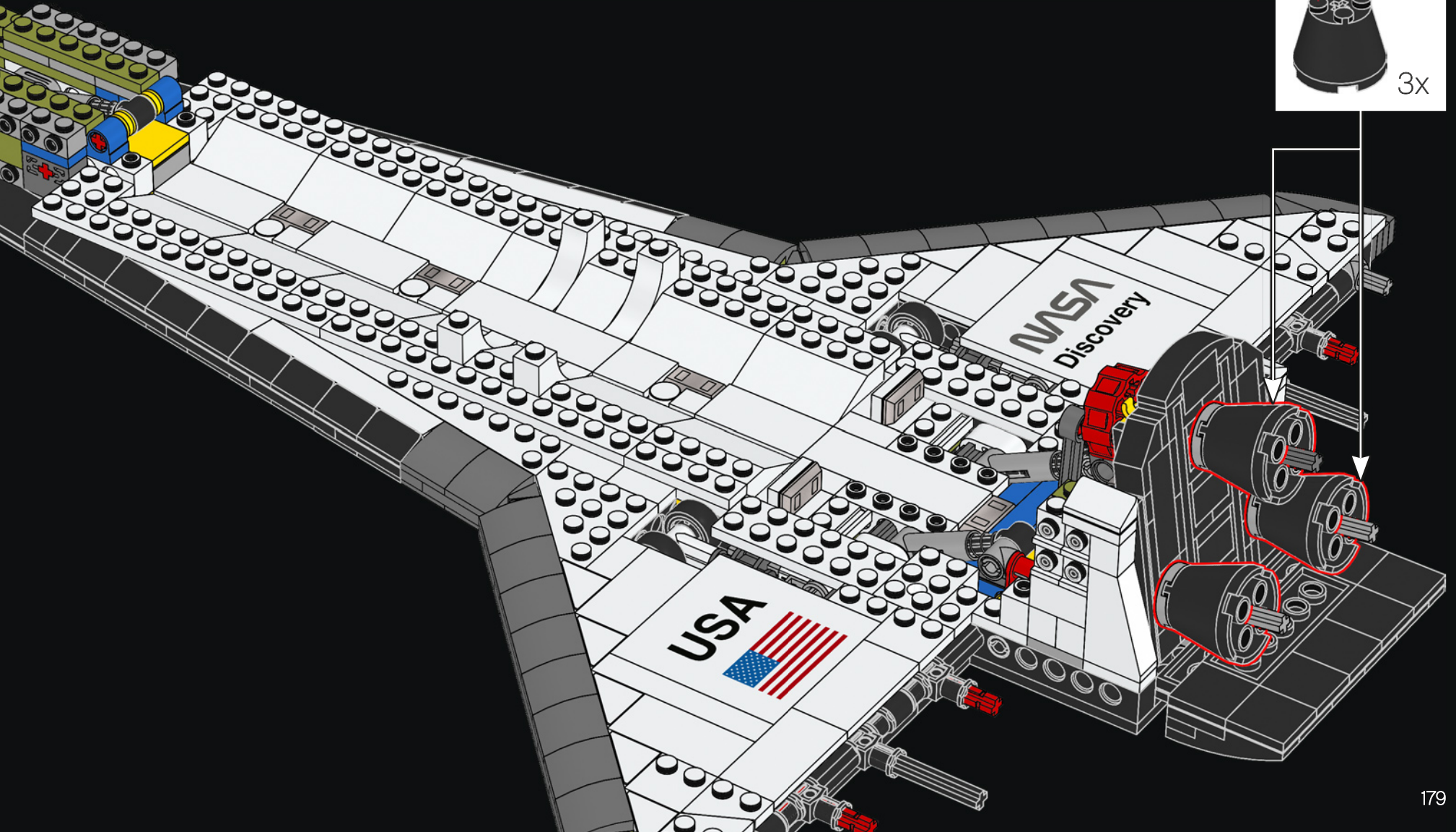
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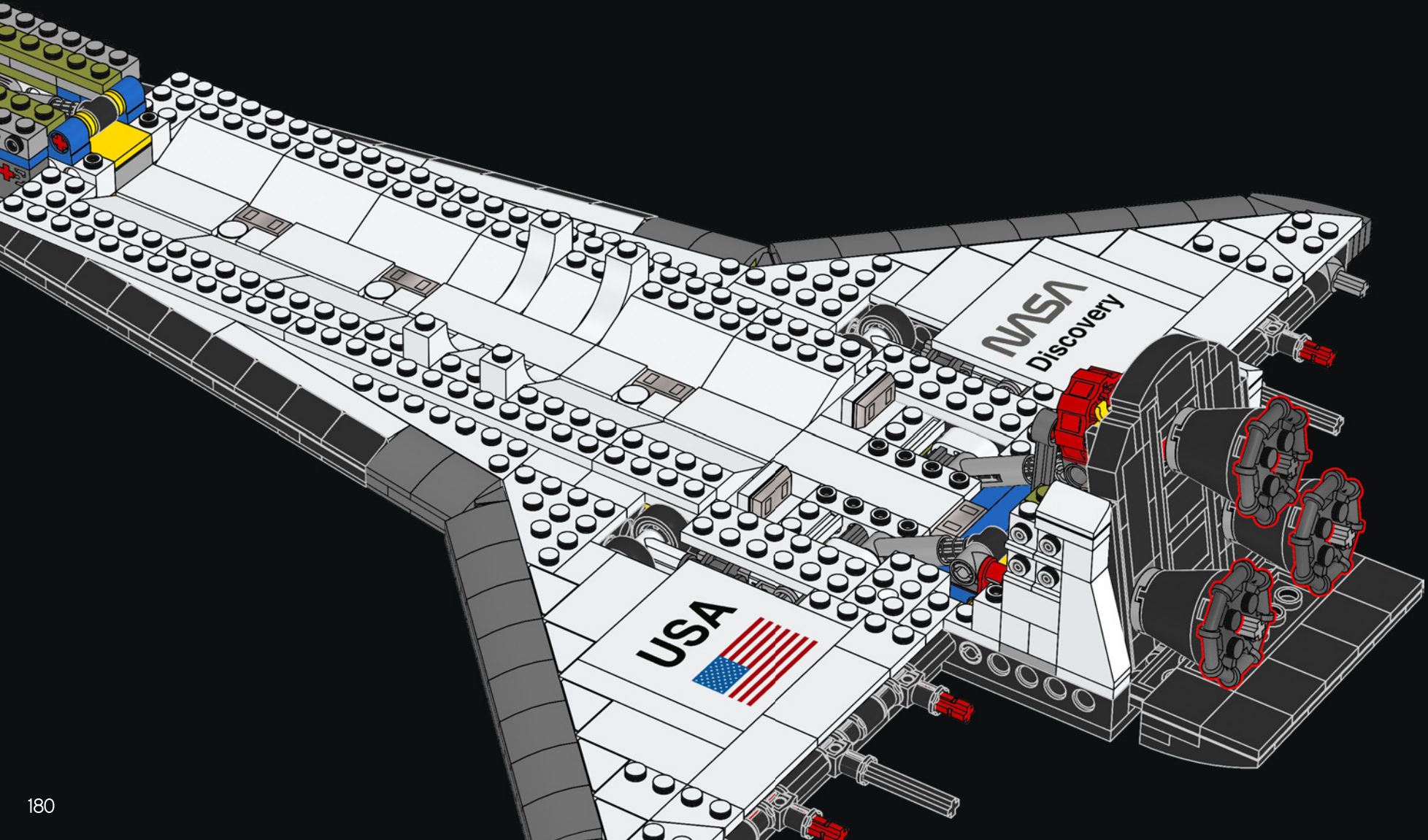


197





198



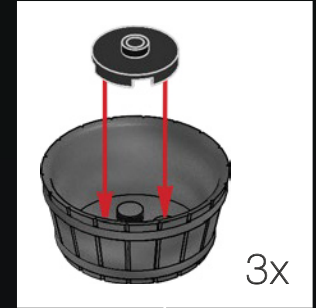
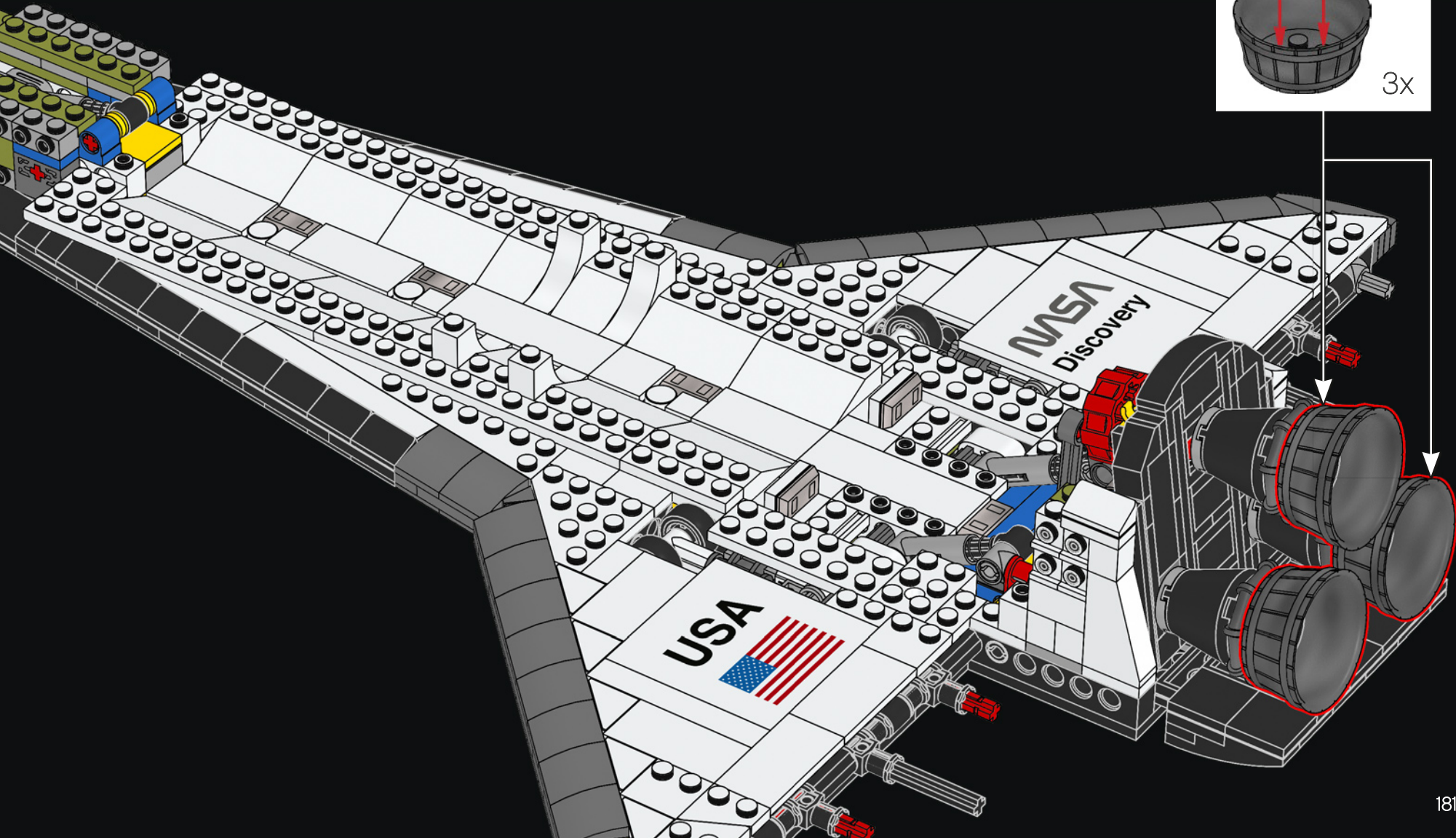
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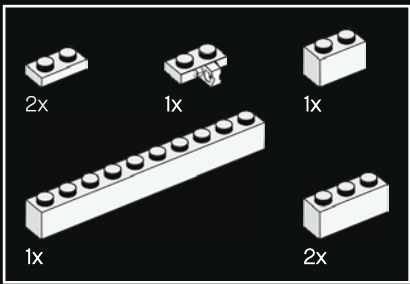


DID YOU KNOW?

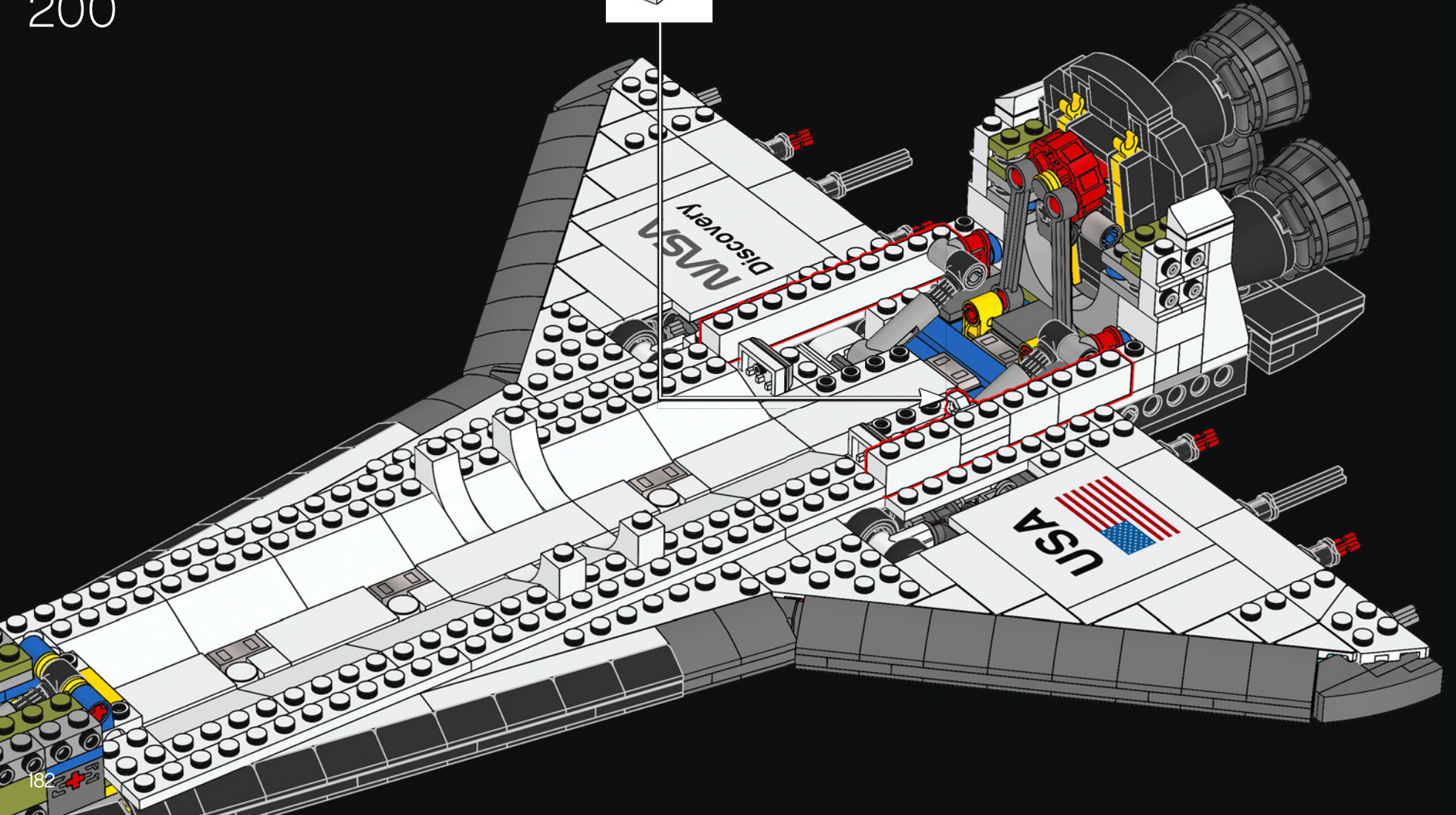
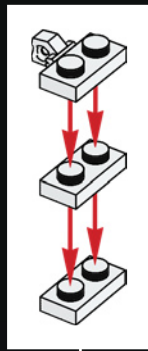
By pumping super-cold liquid hydrogen fuel through 1,080 tubes in the nozzle wall before it enters the main combustion chamber, the engine is kept at a cool 10 degrees Celsius (50 degrees Fahrenheit).

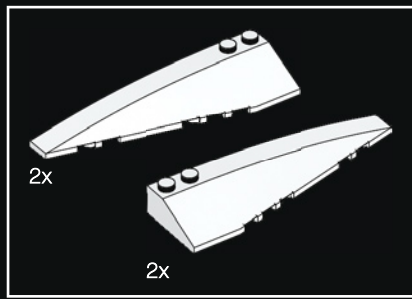
199



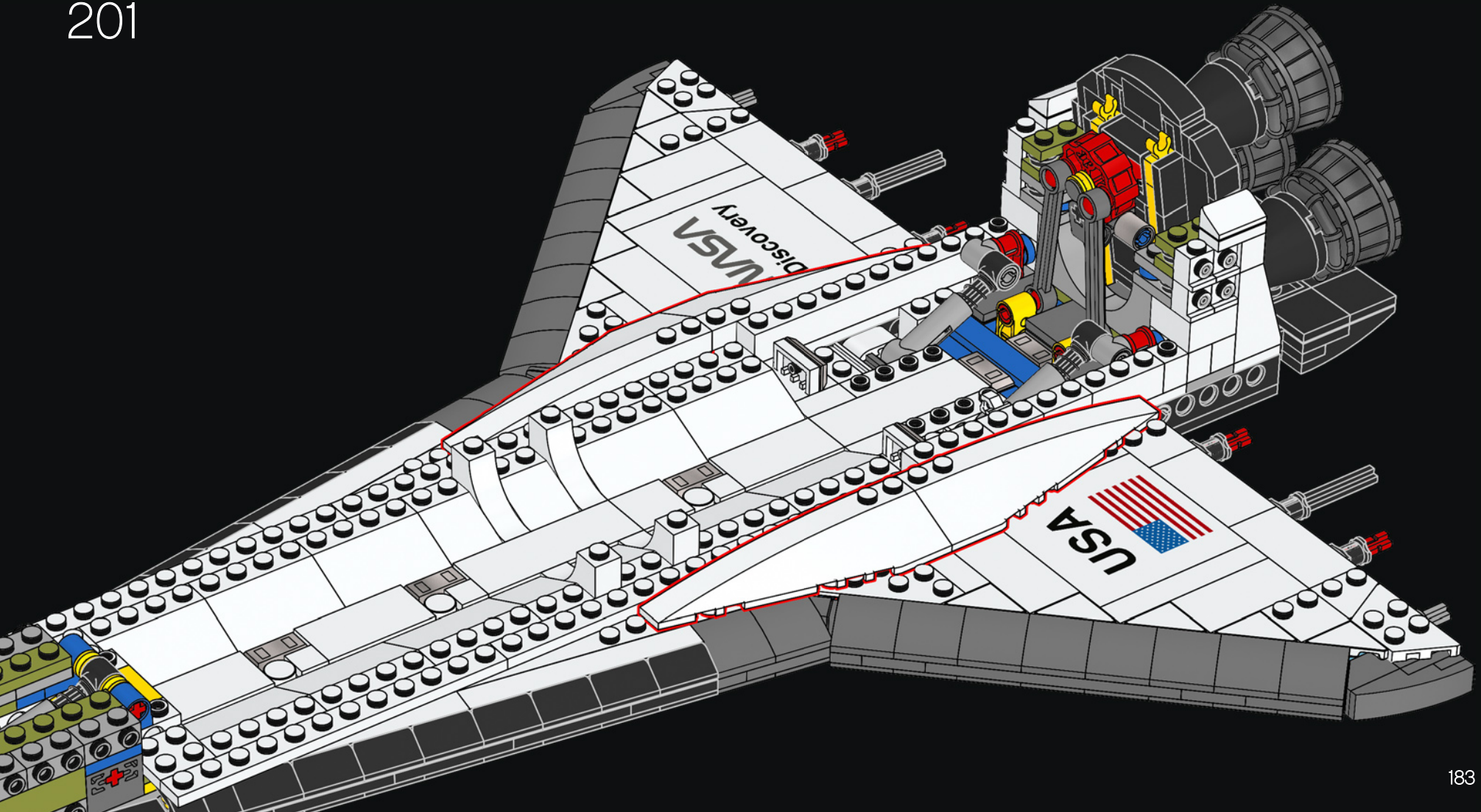


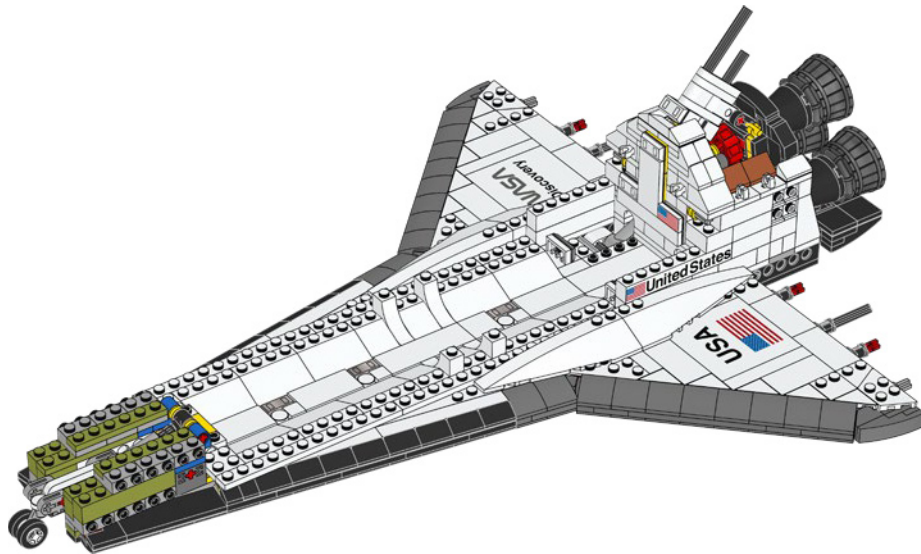
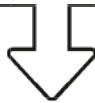
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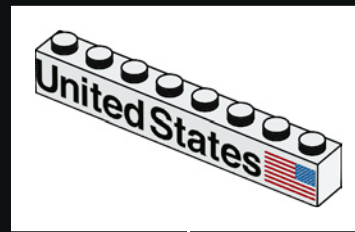
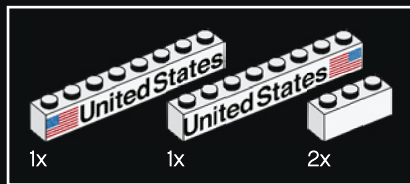




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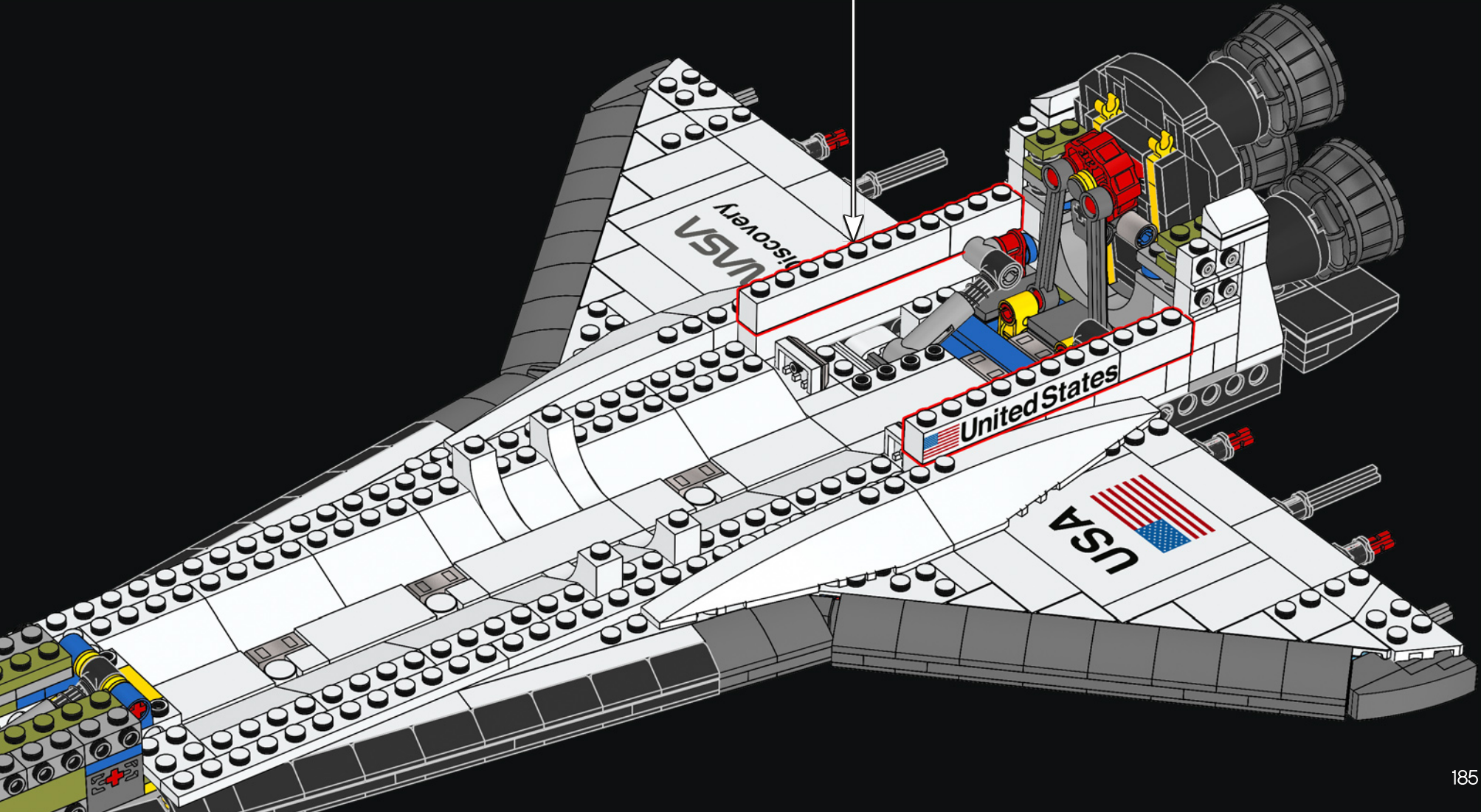


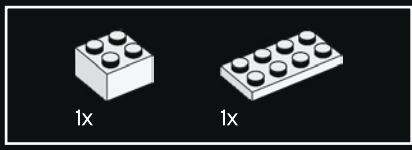


DID YOU KNOW?

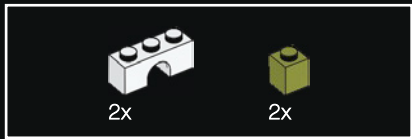
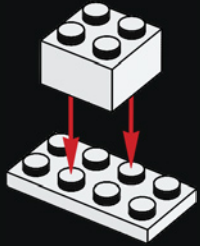
As regulations require that the stars always face forwards as if the flag is trailing in the wind, the American flag on the starboard side of Discovery's fuselage flies backwards.

202

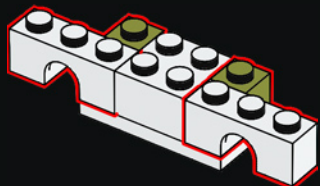




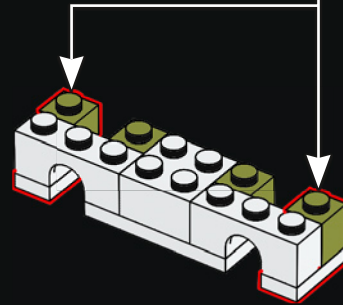
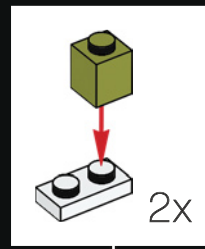
203



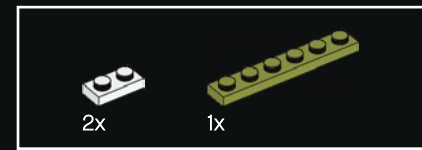
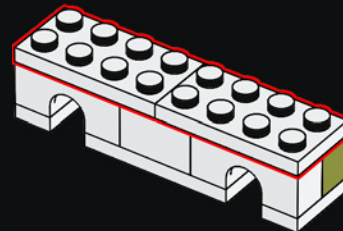
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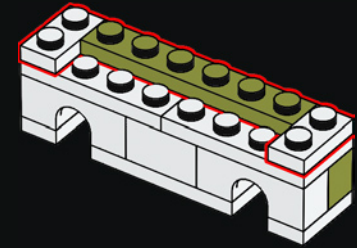
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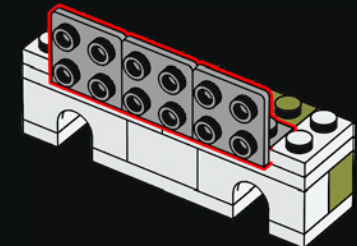
206



207

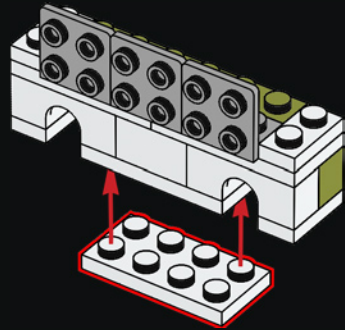


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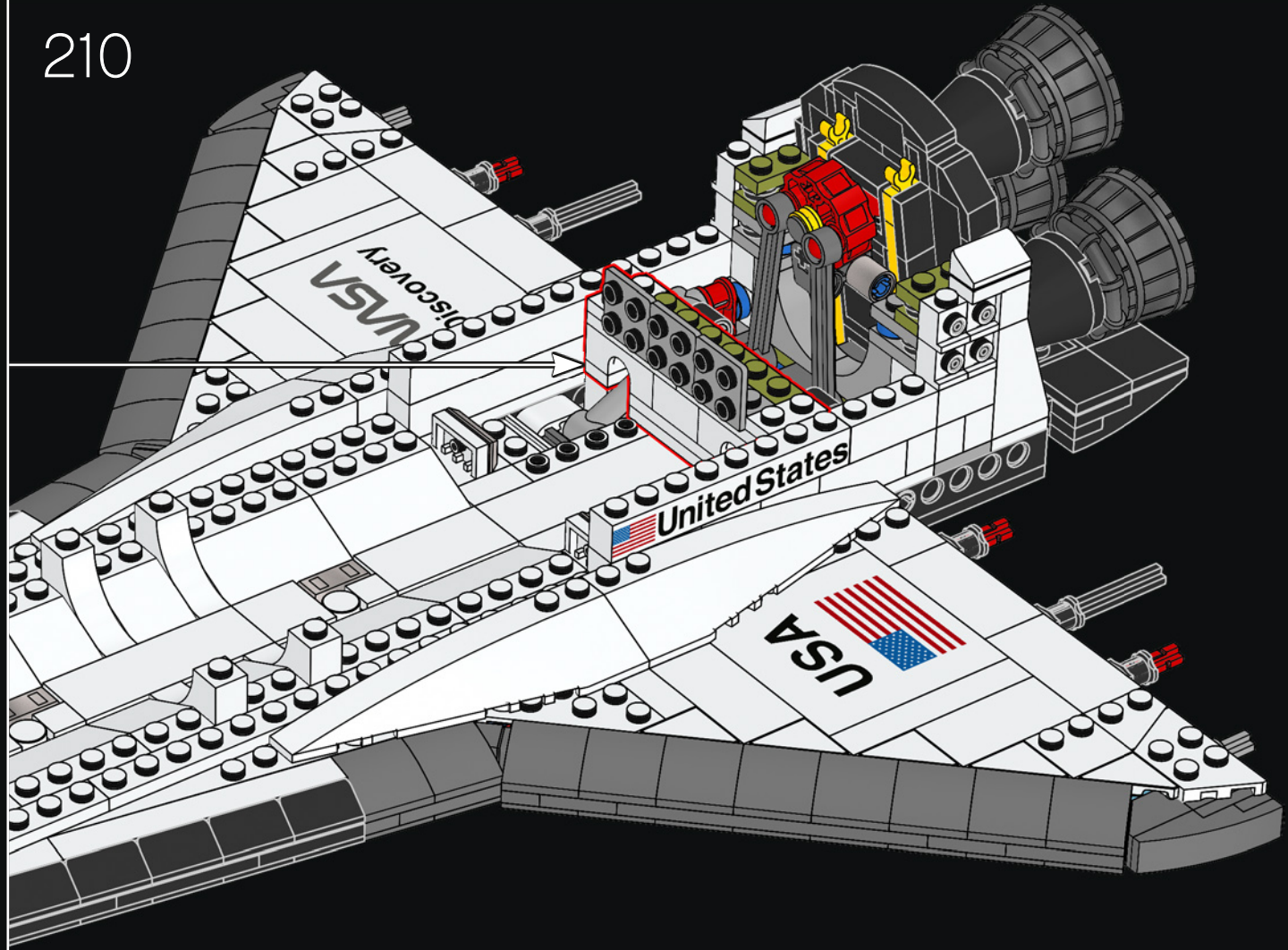


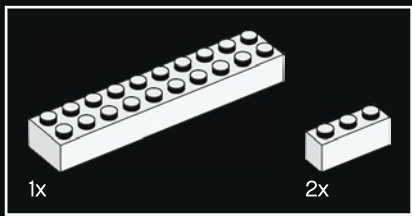


209

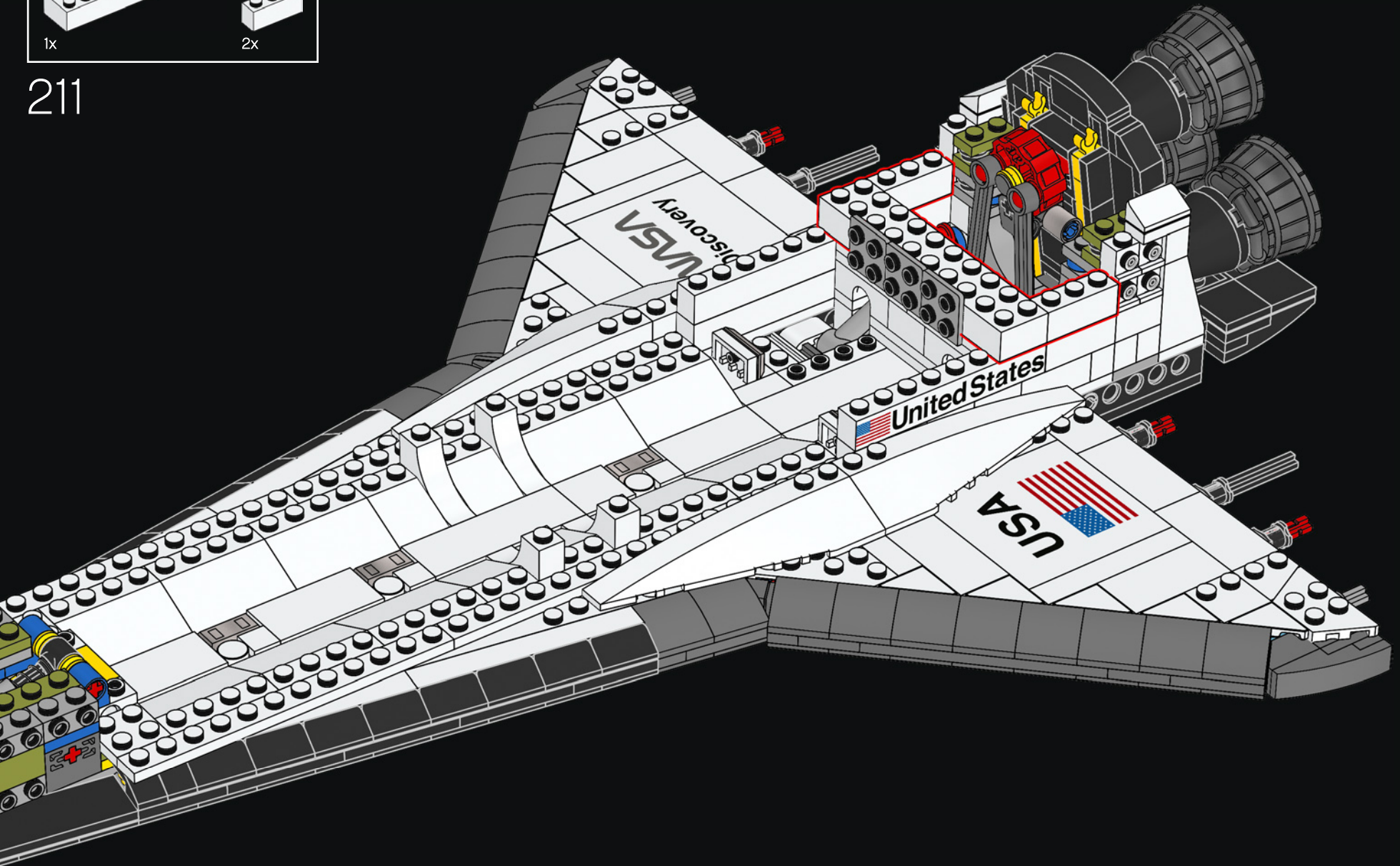


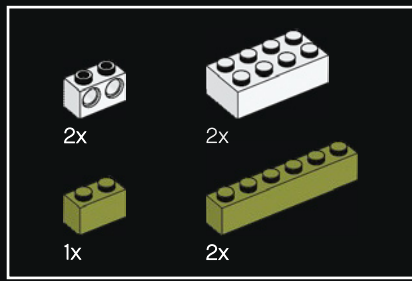
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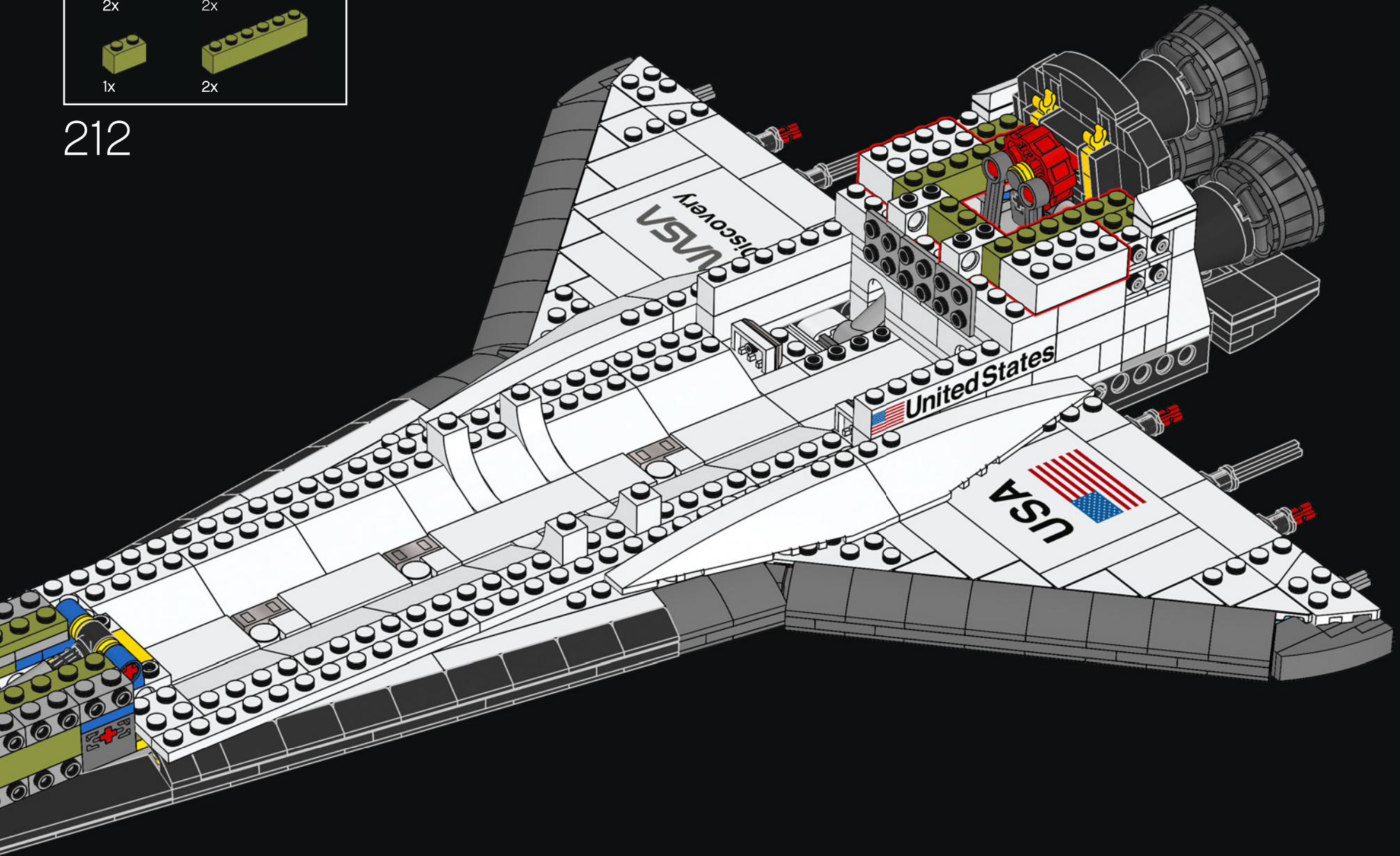


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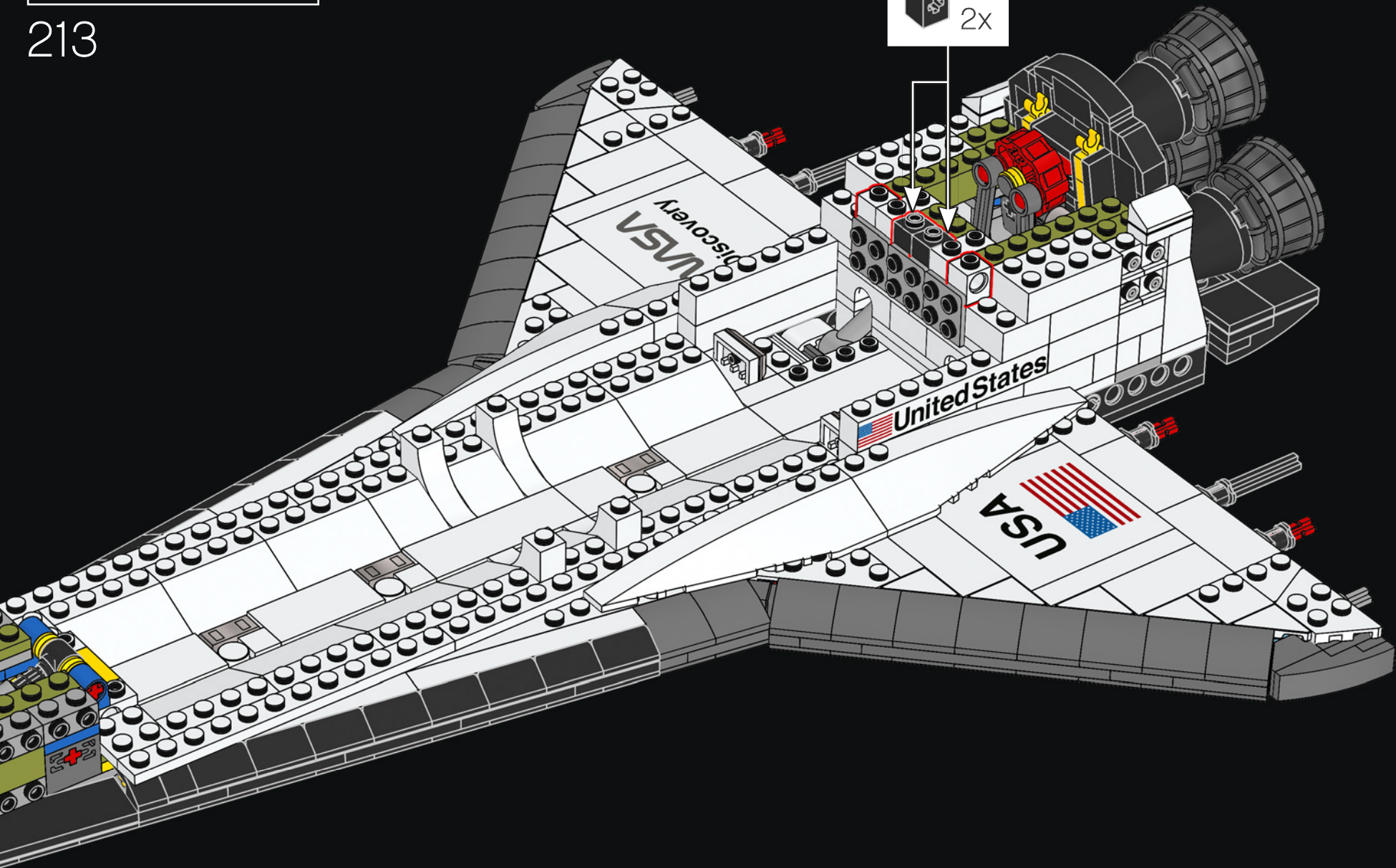
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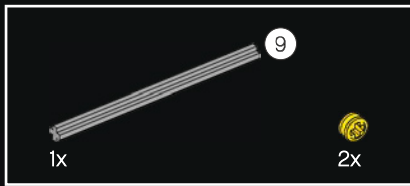


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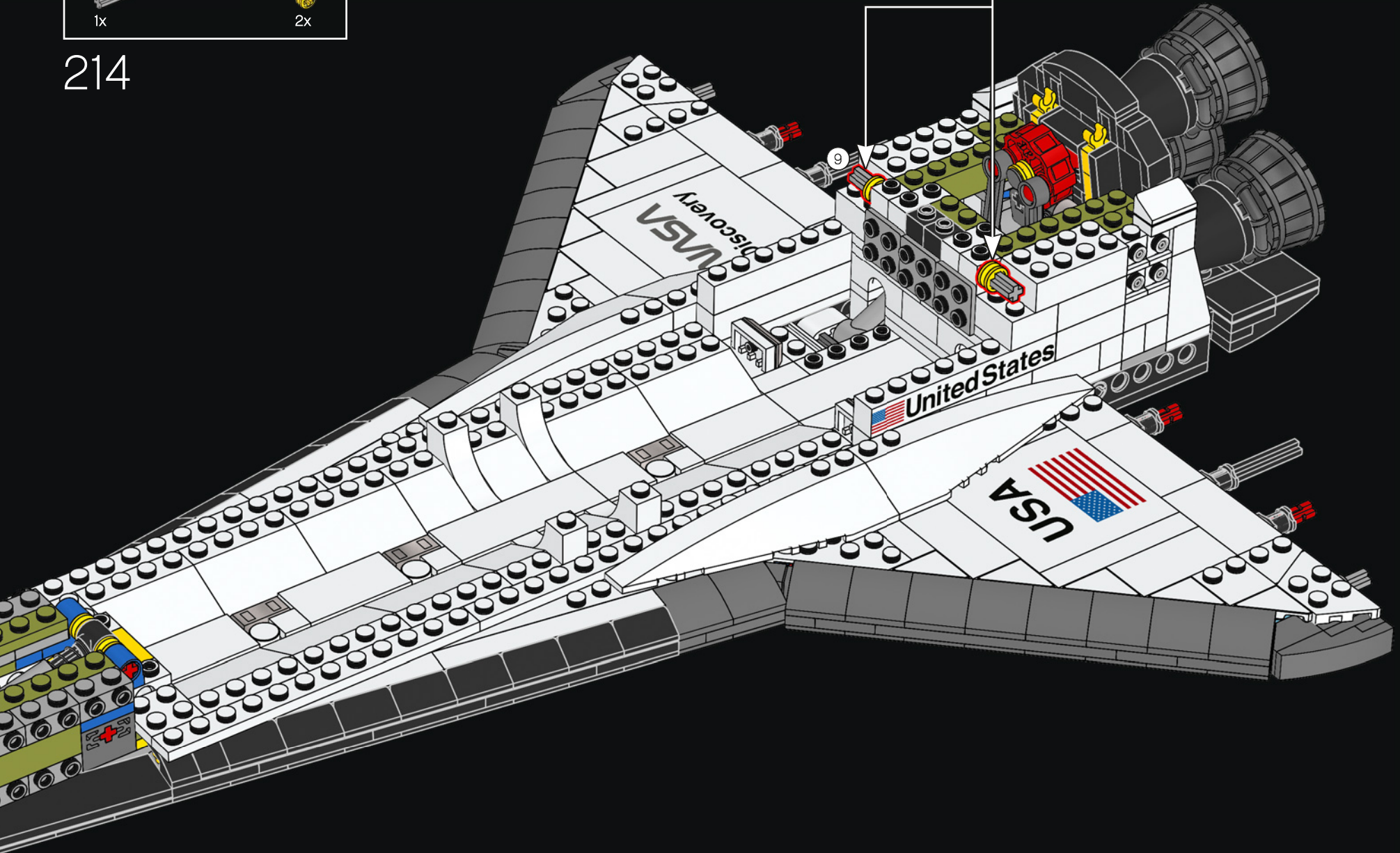
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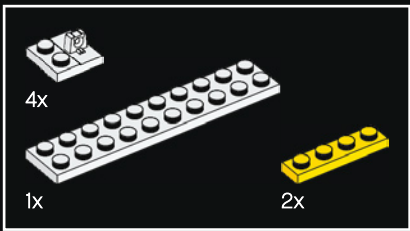
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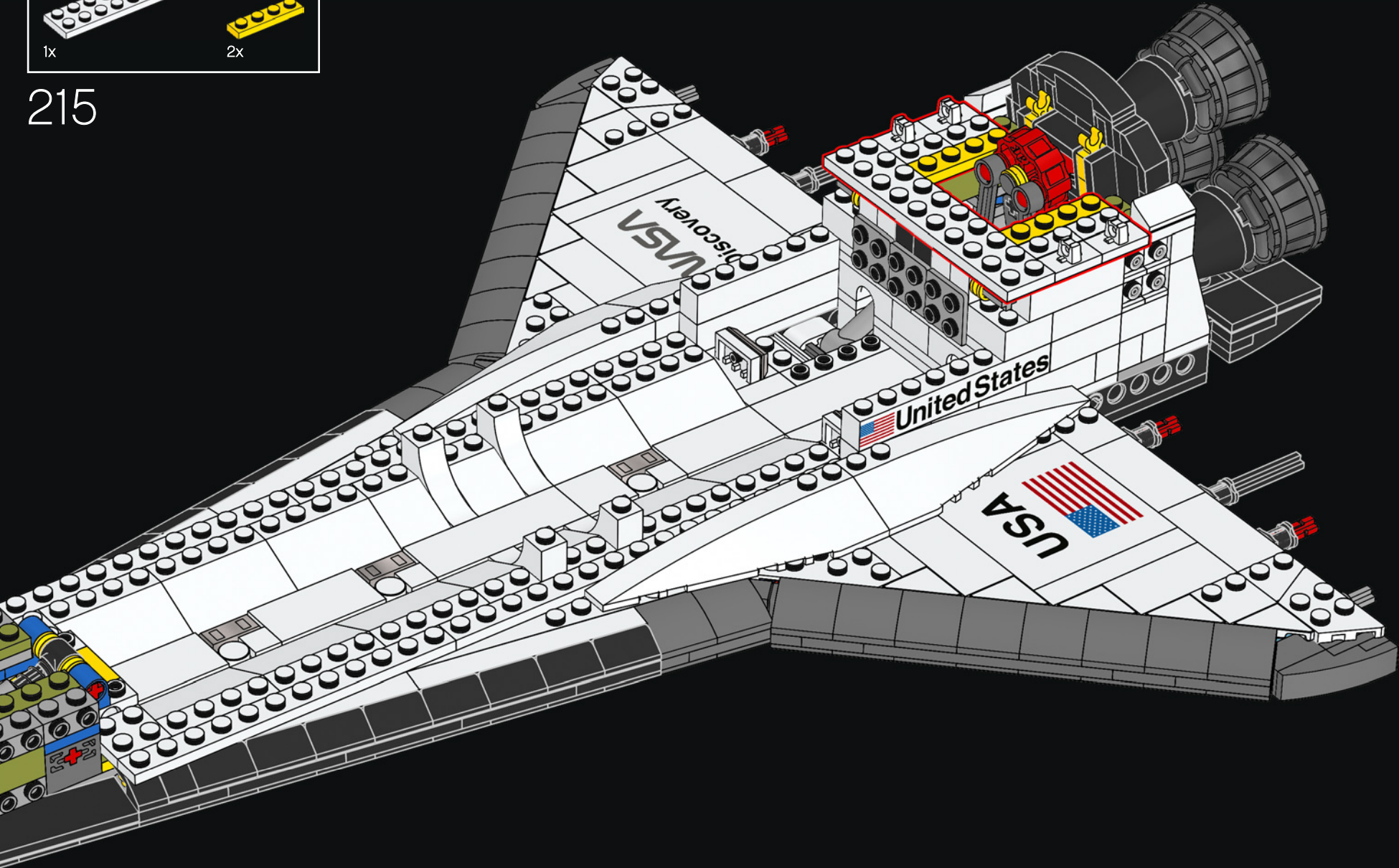


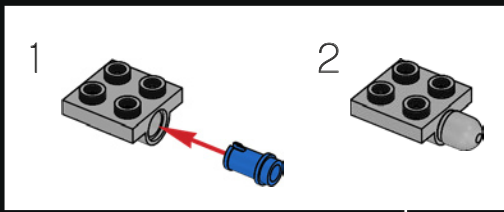
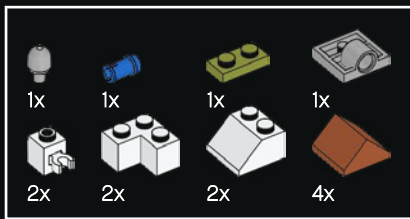
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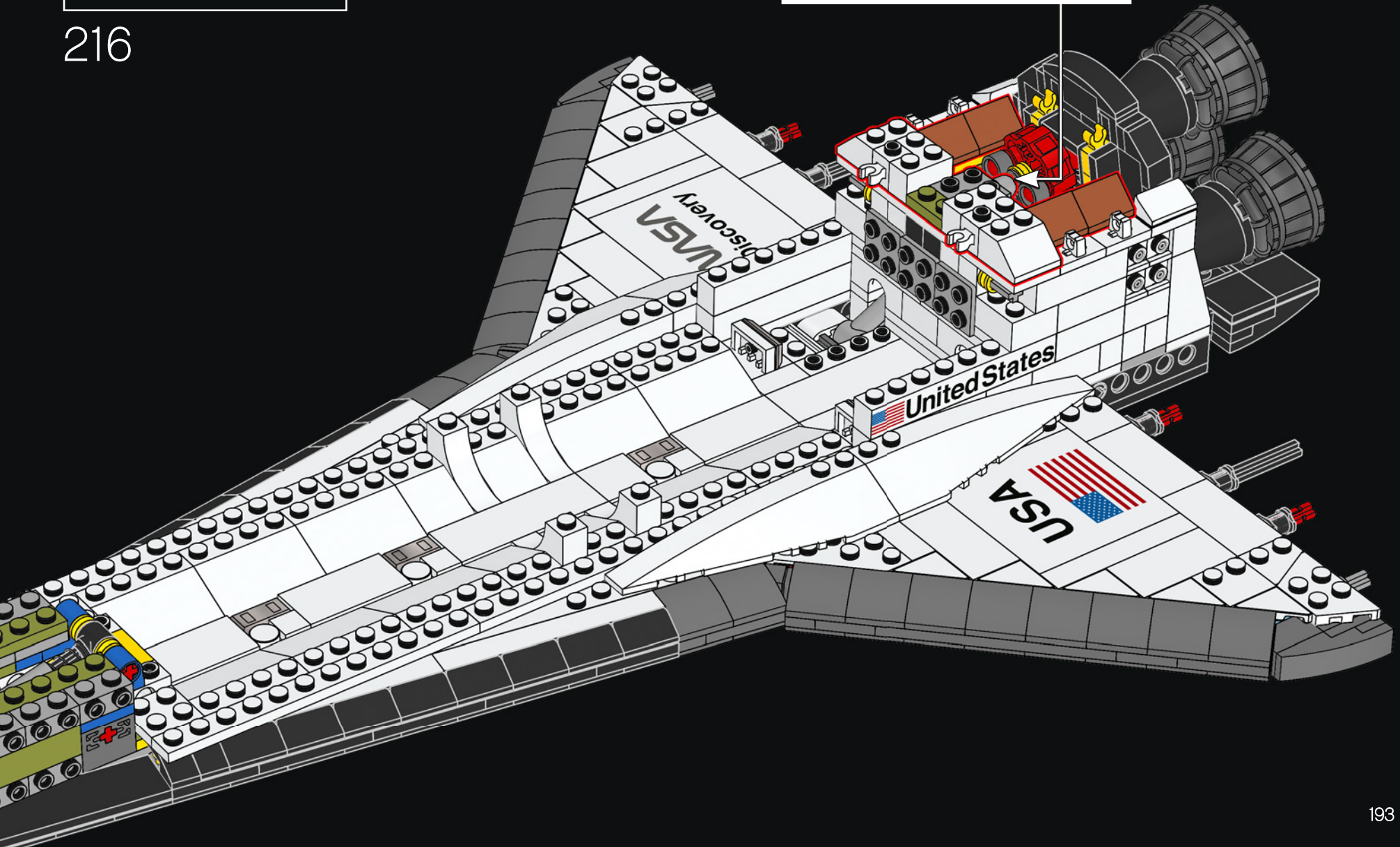


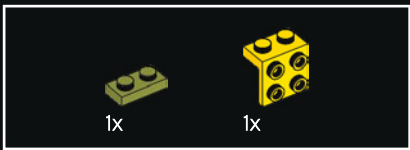
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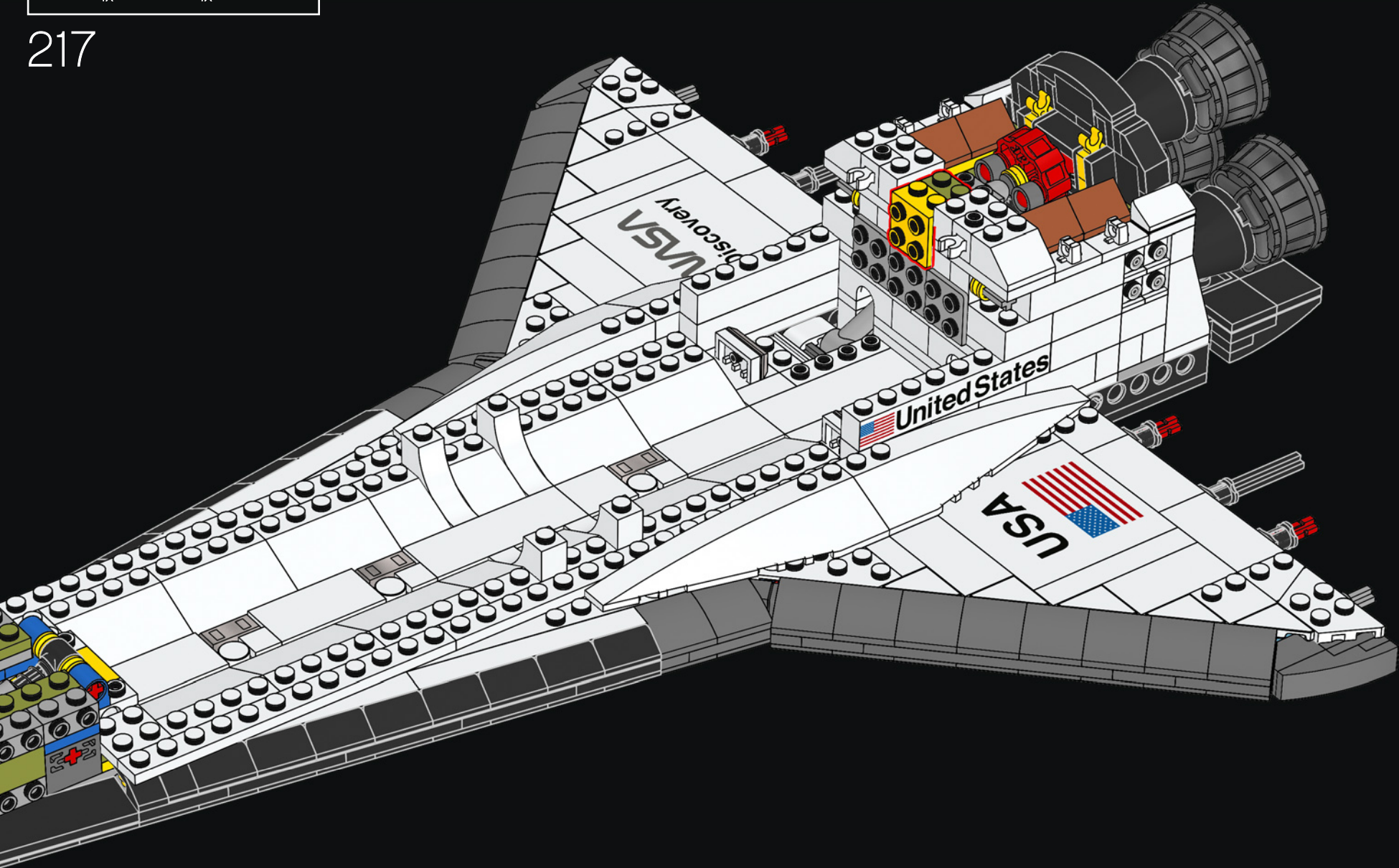


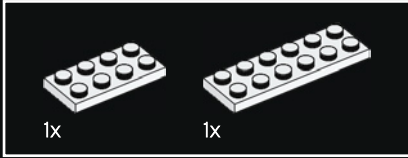
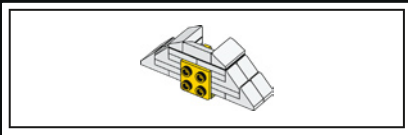
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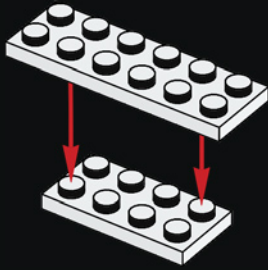


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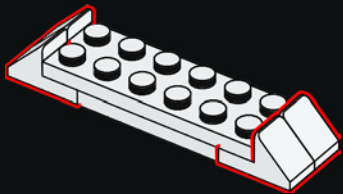




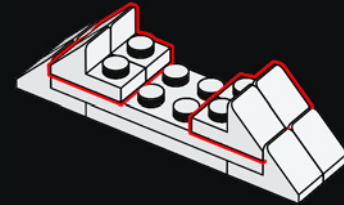
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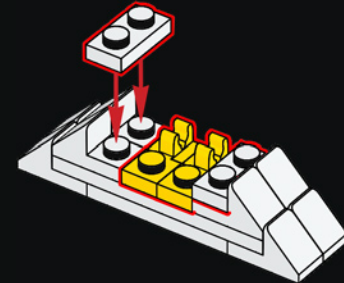
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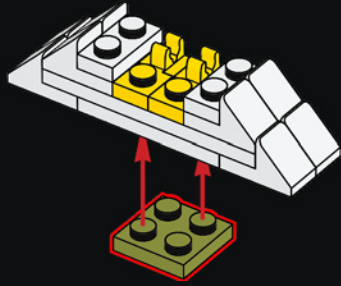


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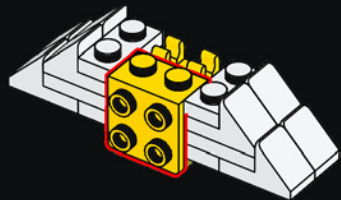




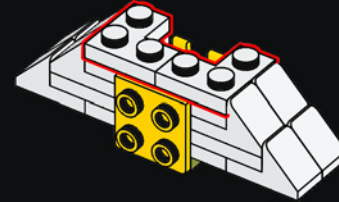
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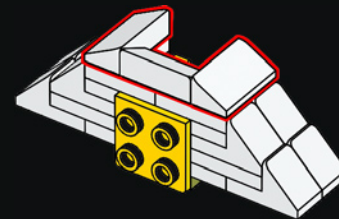
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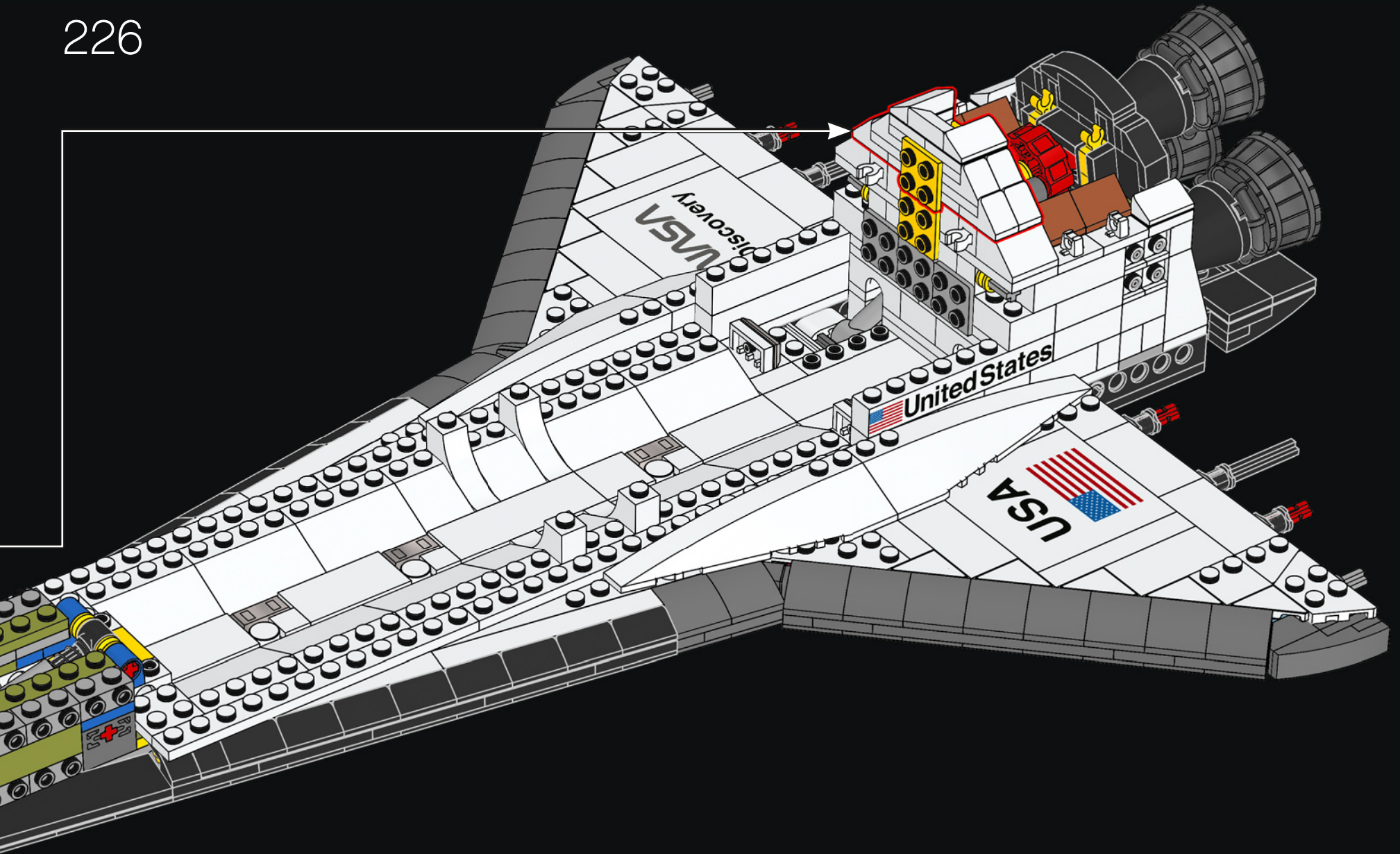
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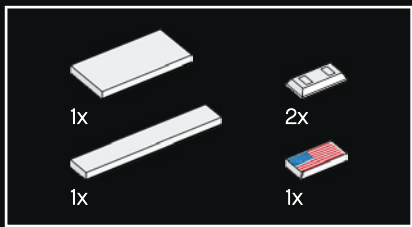


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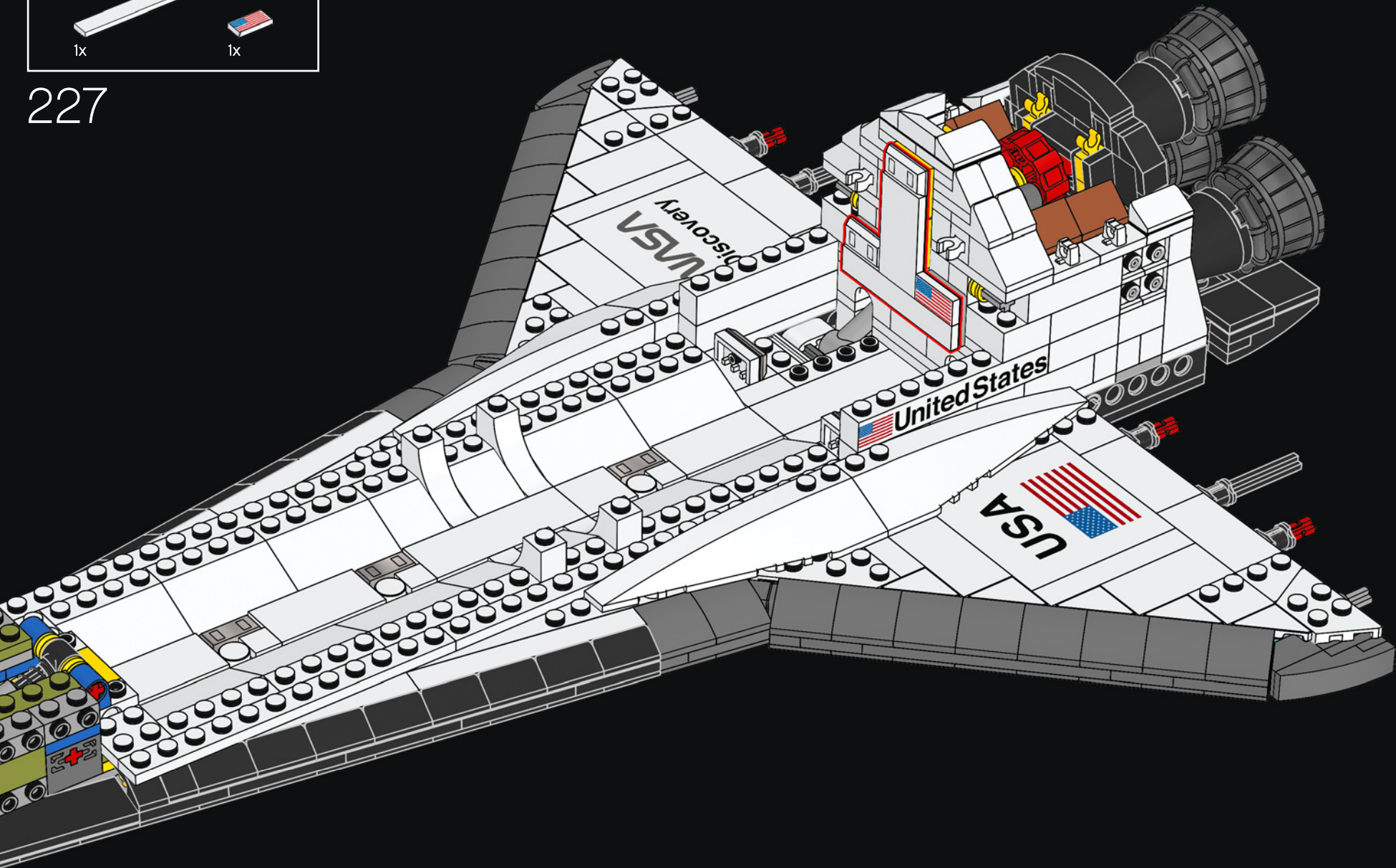


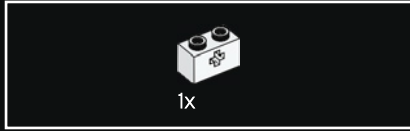
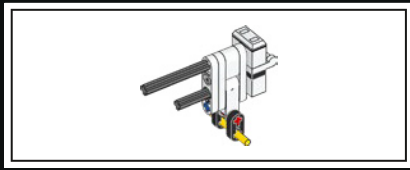
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227





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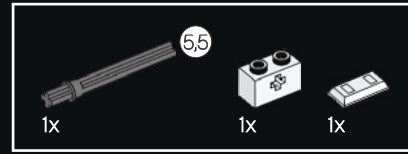
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1x

1x

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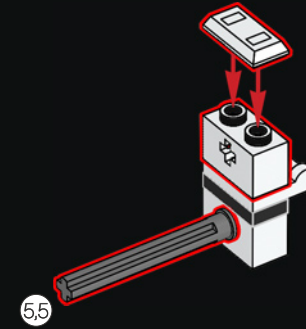


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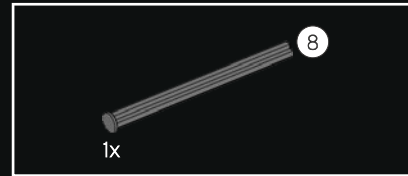
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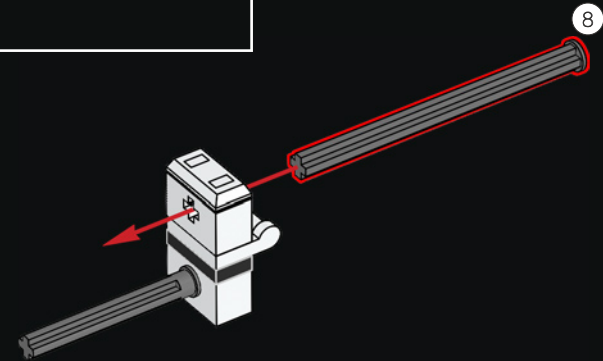
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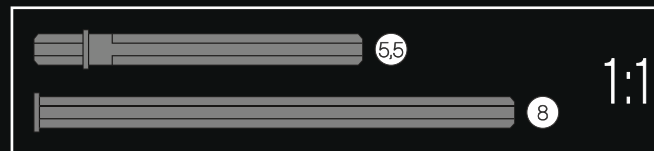
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8



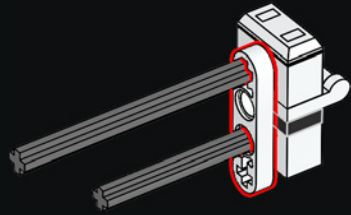
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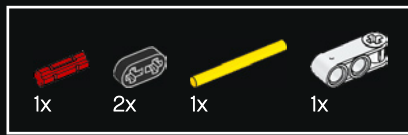
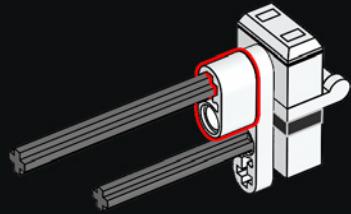
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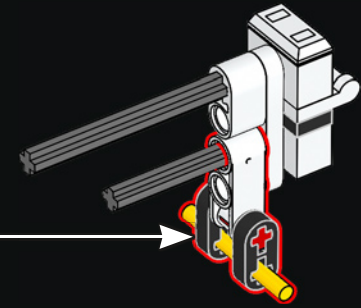
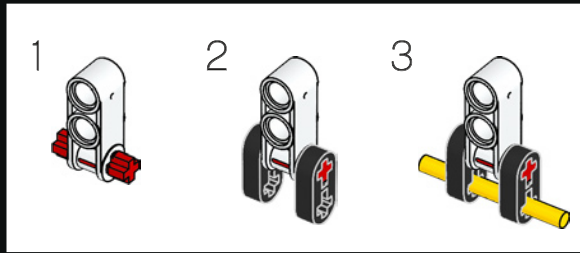
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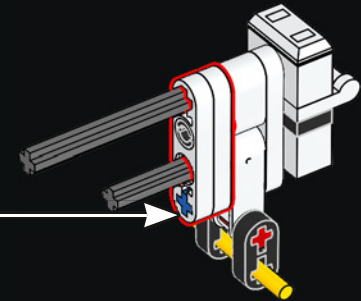
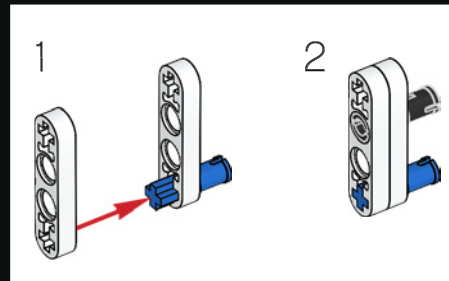
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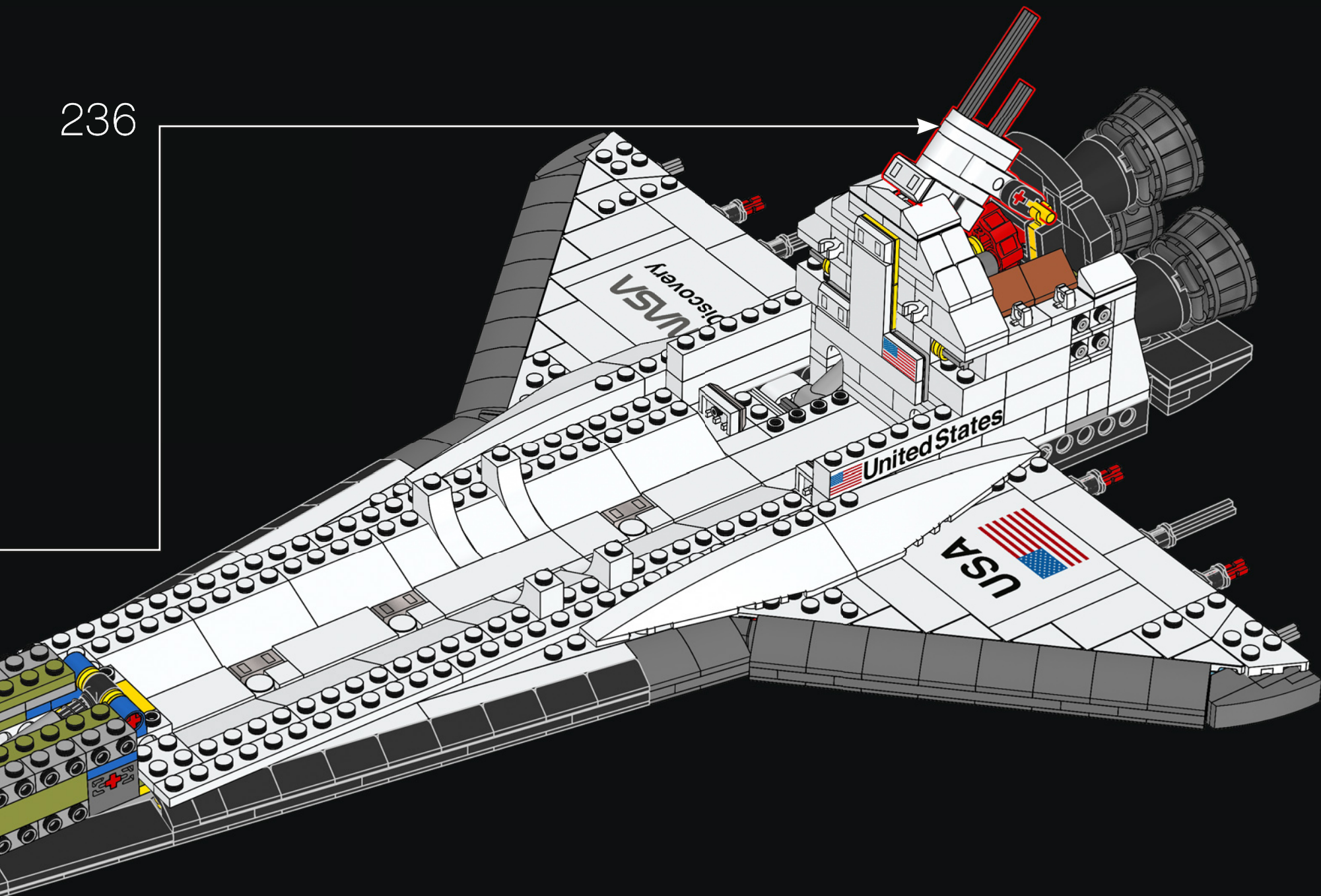
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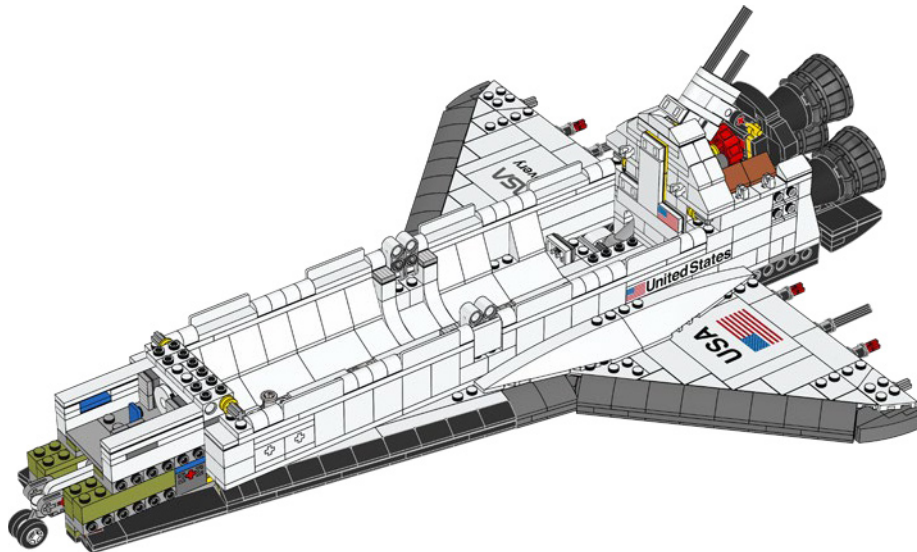
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236

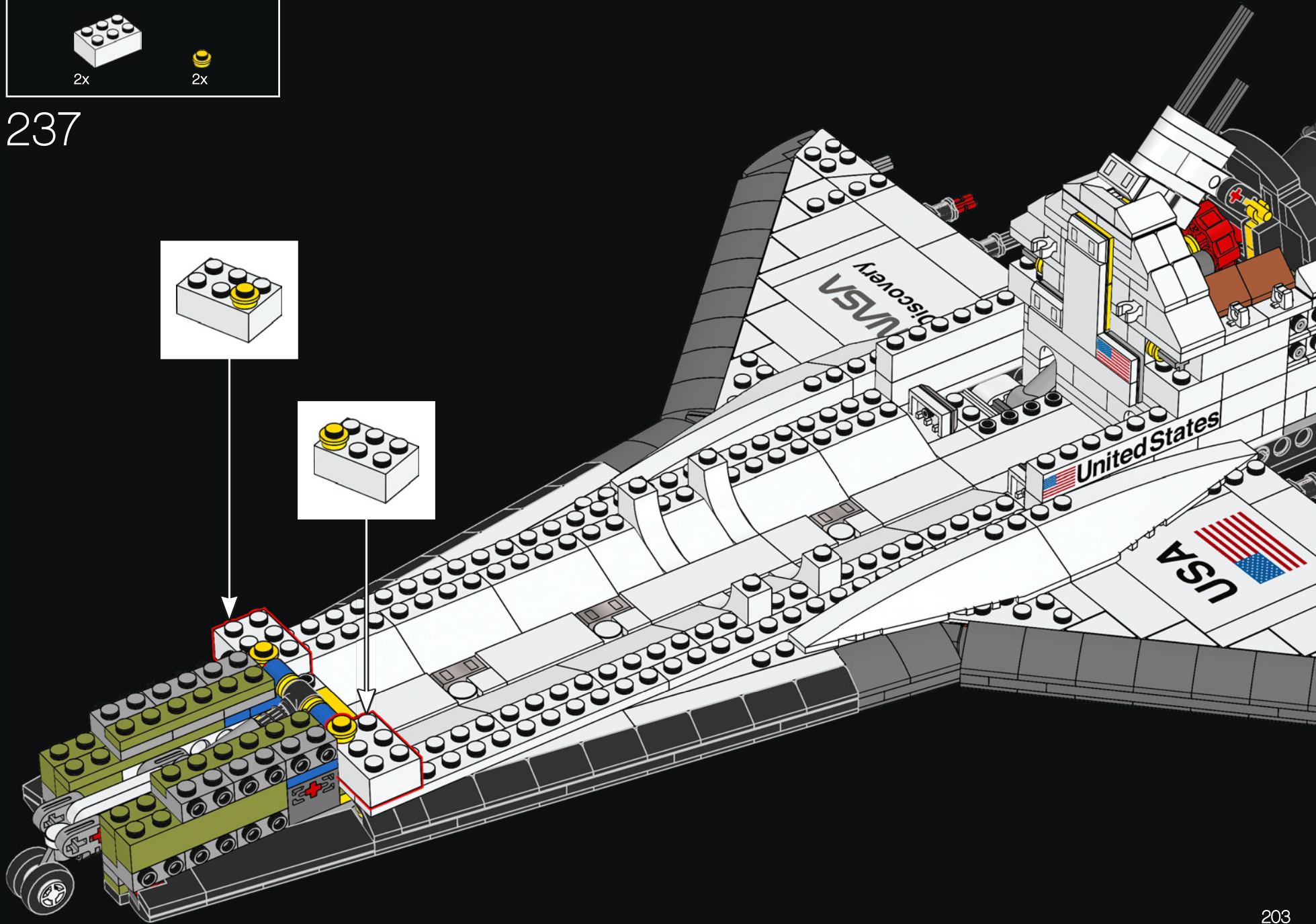
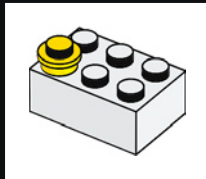
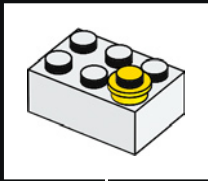


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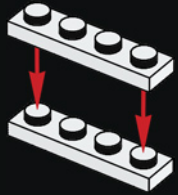


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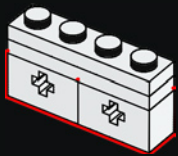




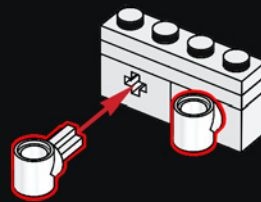
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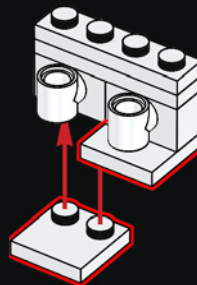
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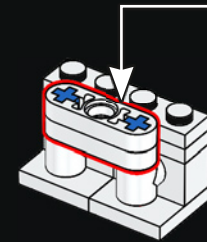
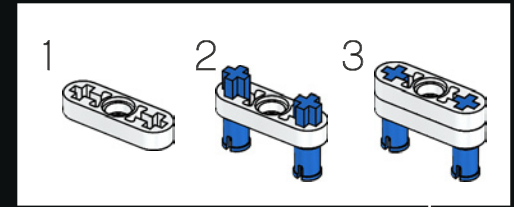
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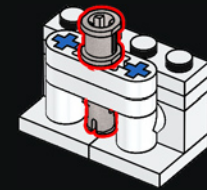
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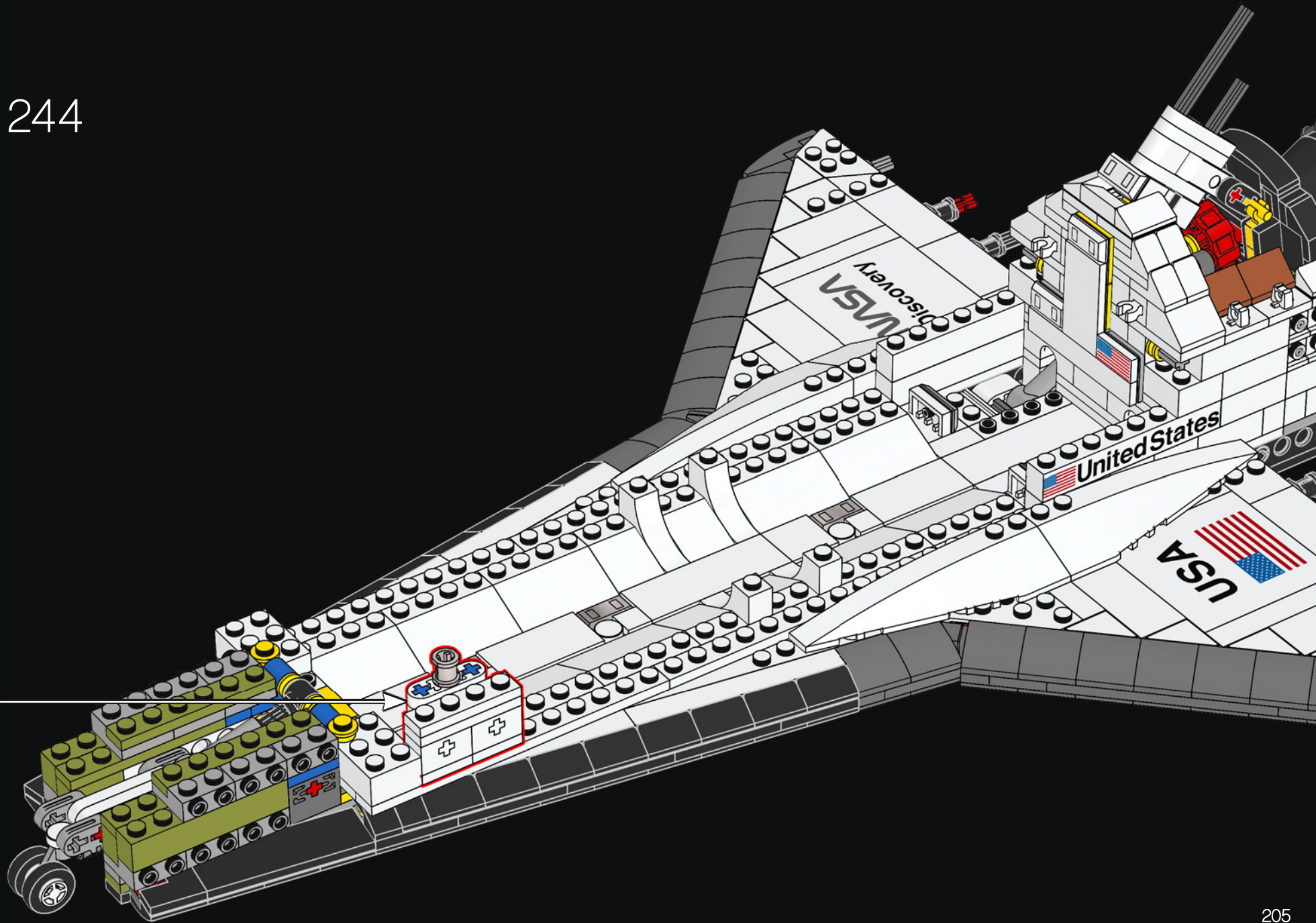


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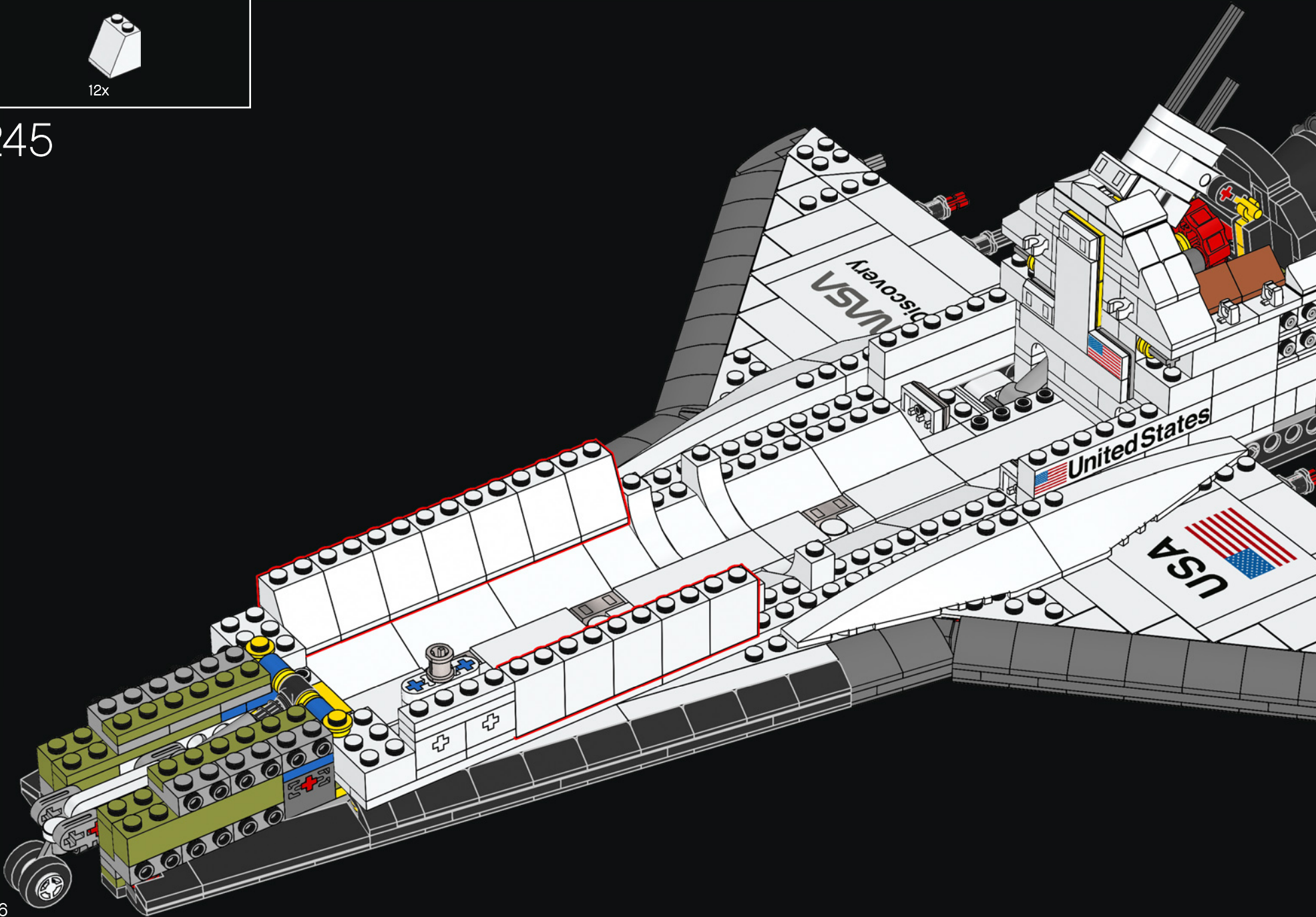
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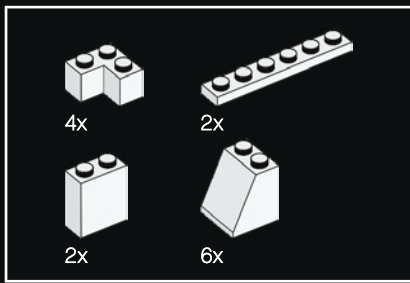




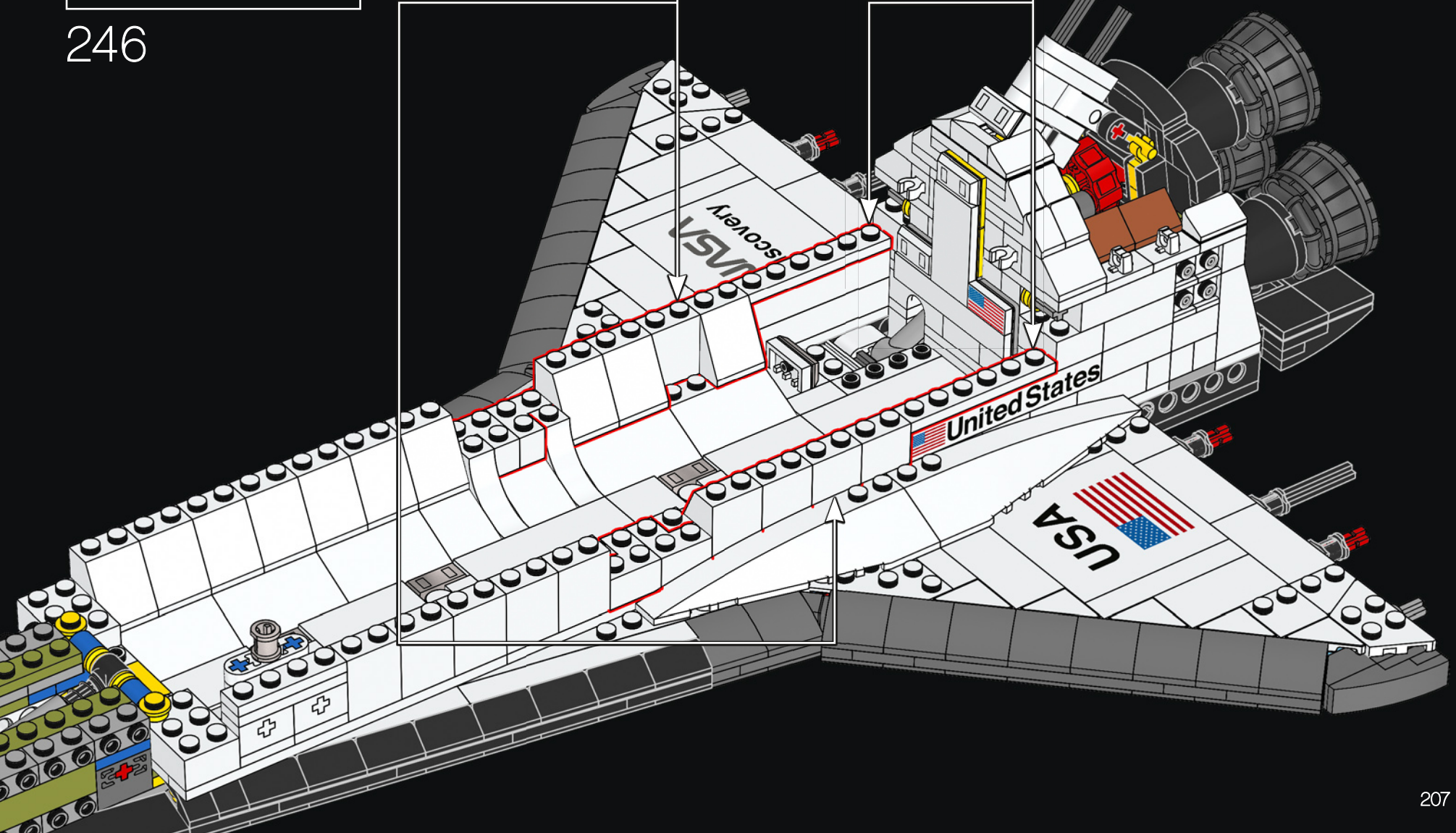
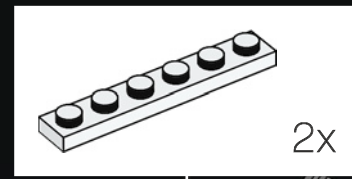
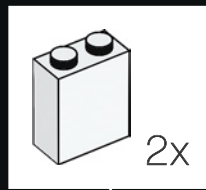


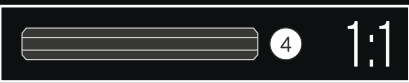
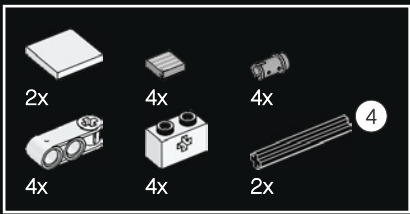
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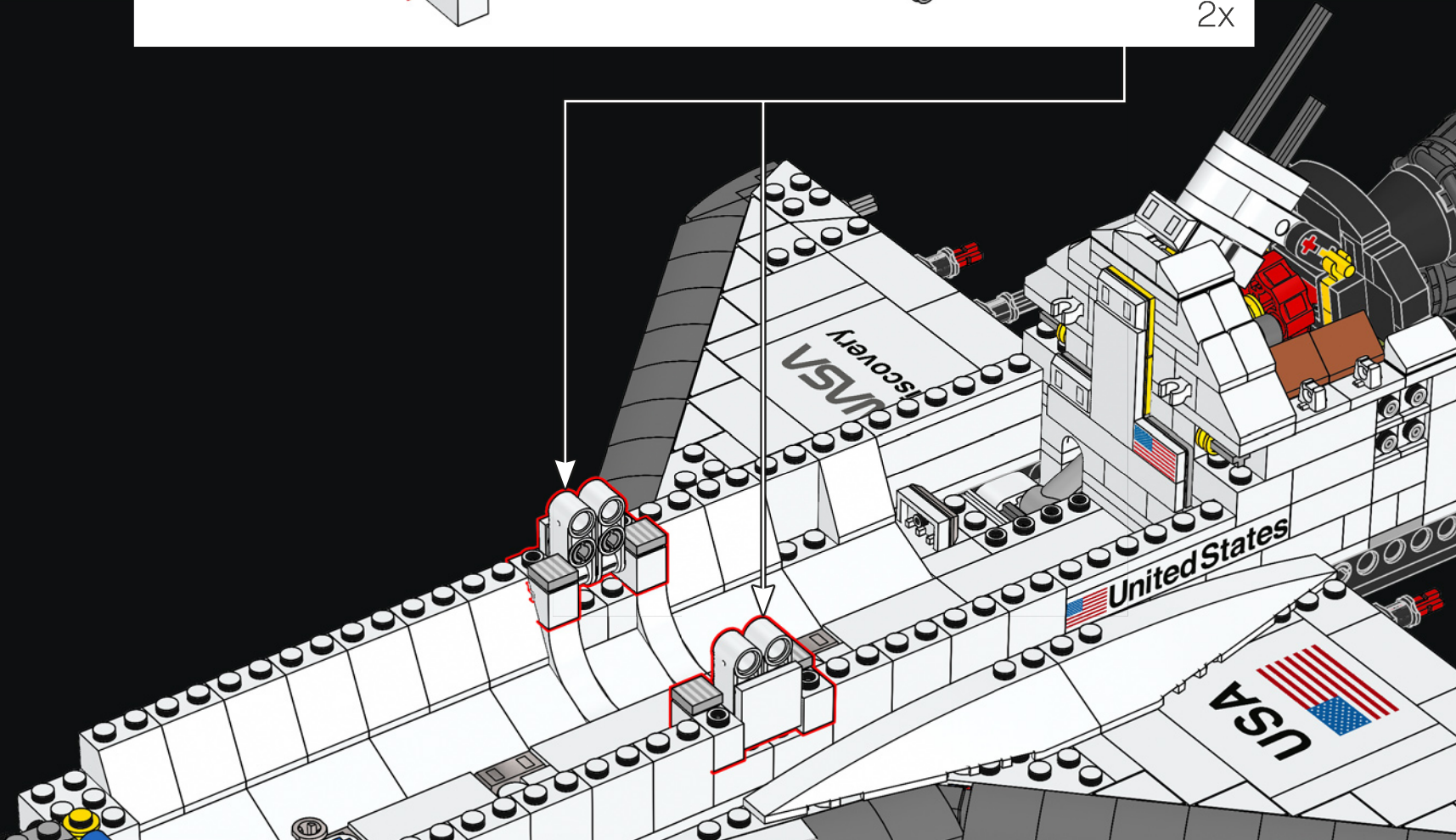
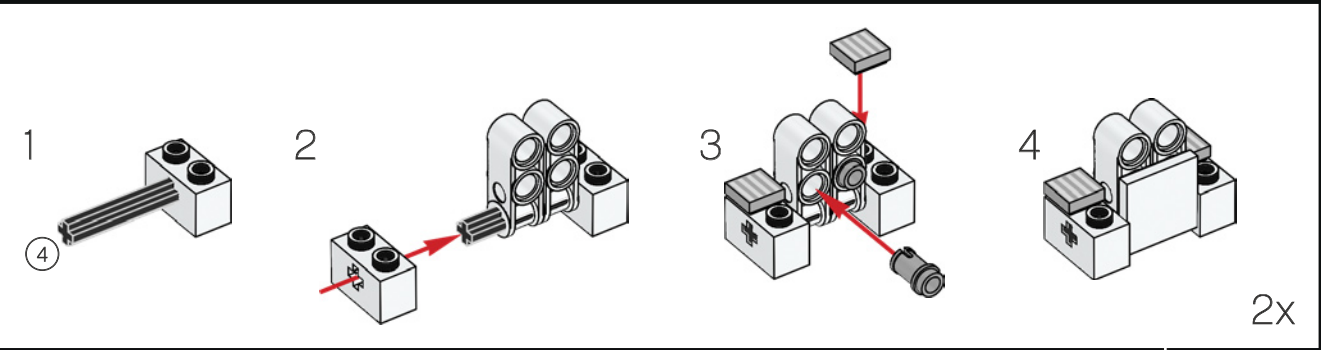


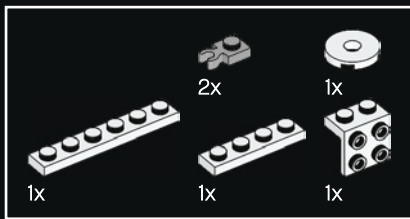
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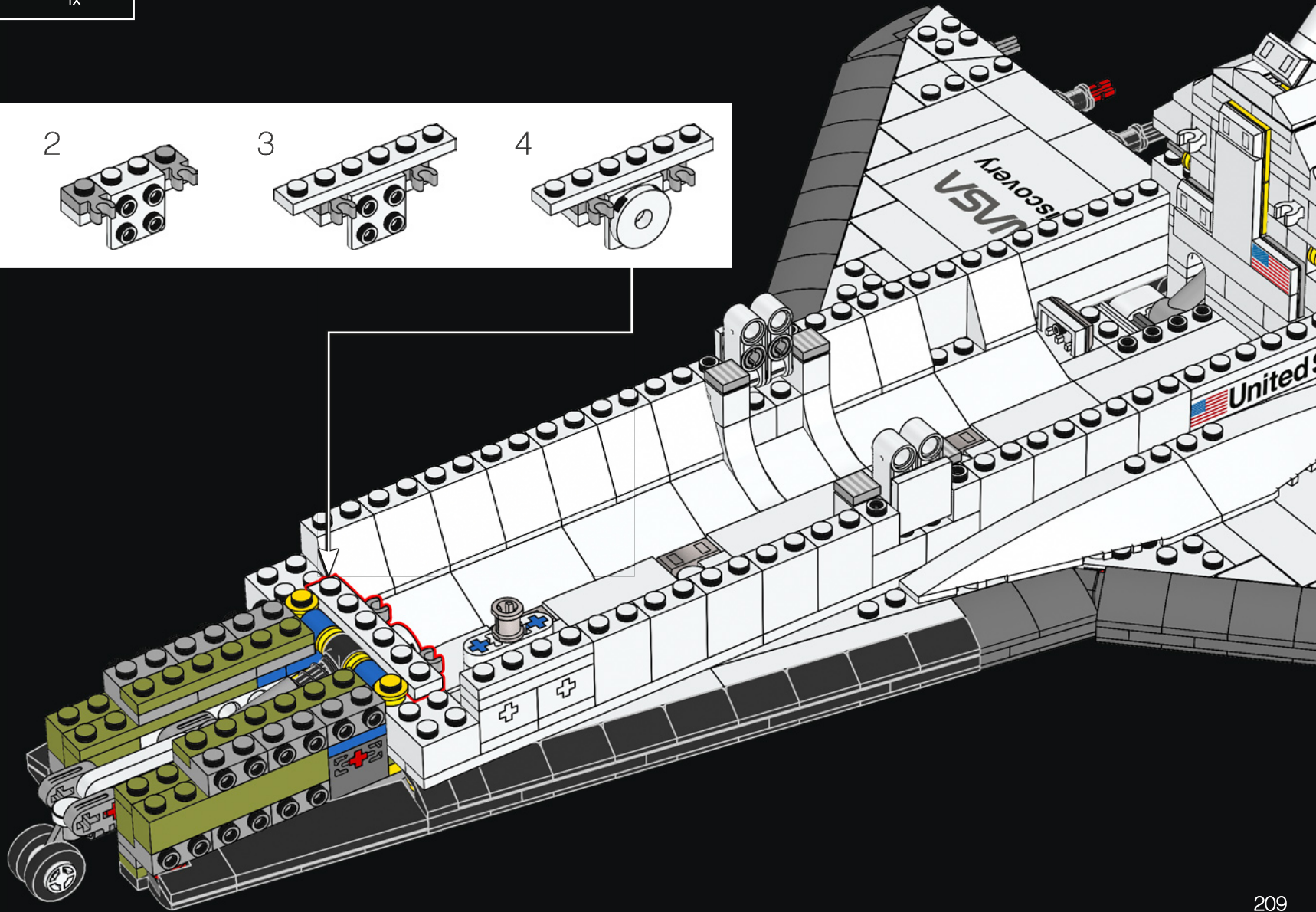
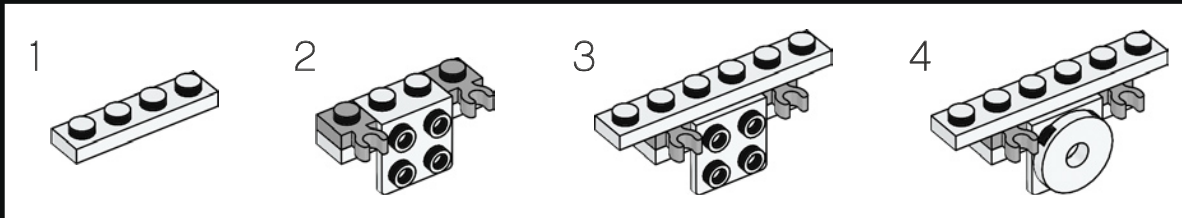


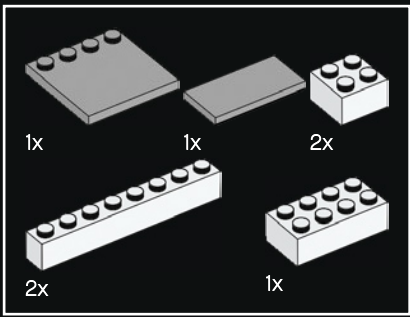
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248

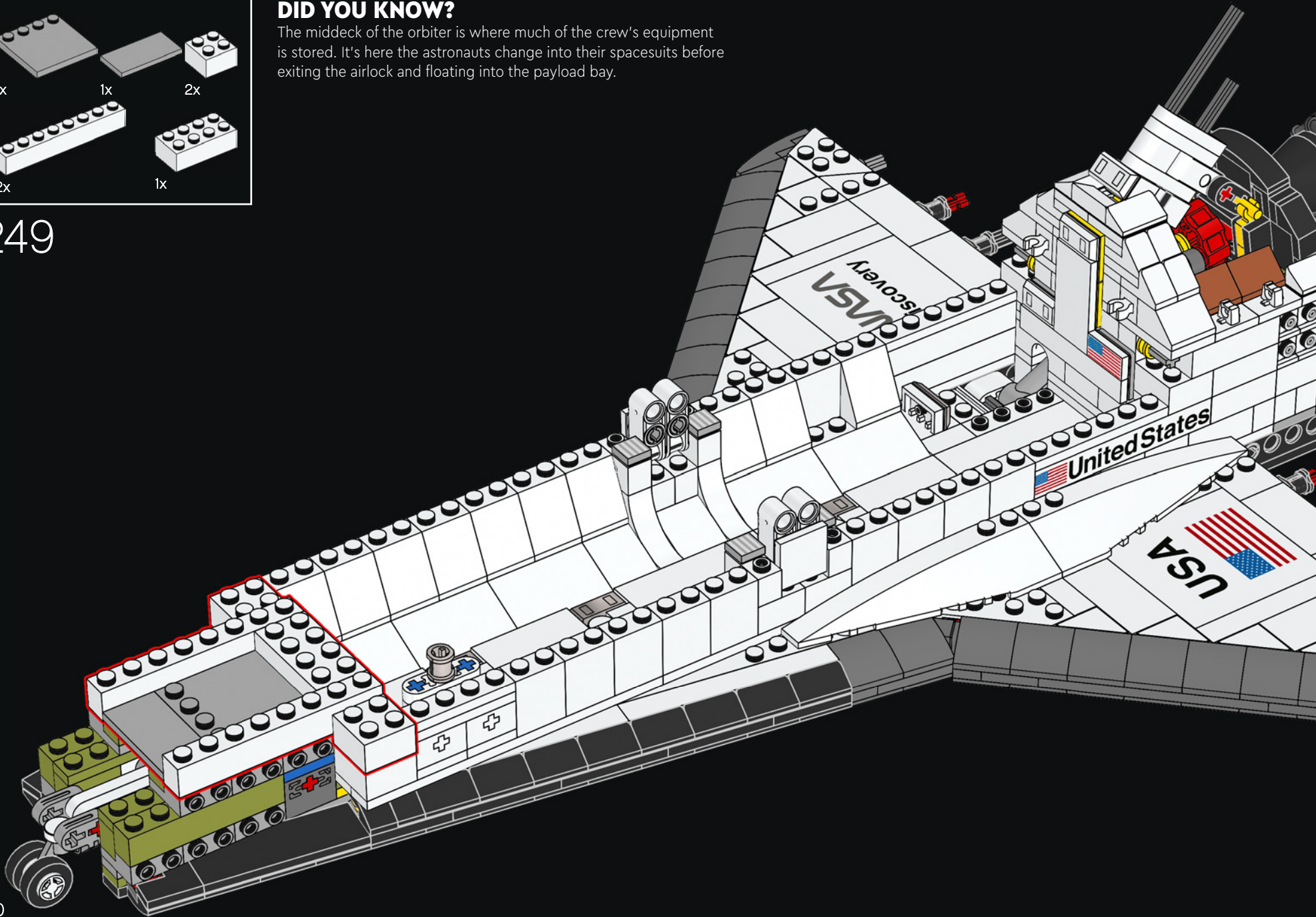


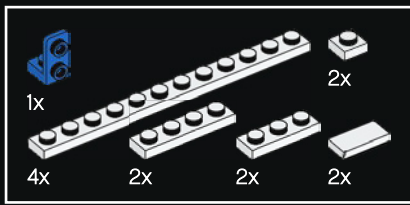


DID YOU KNOW?

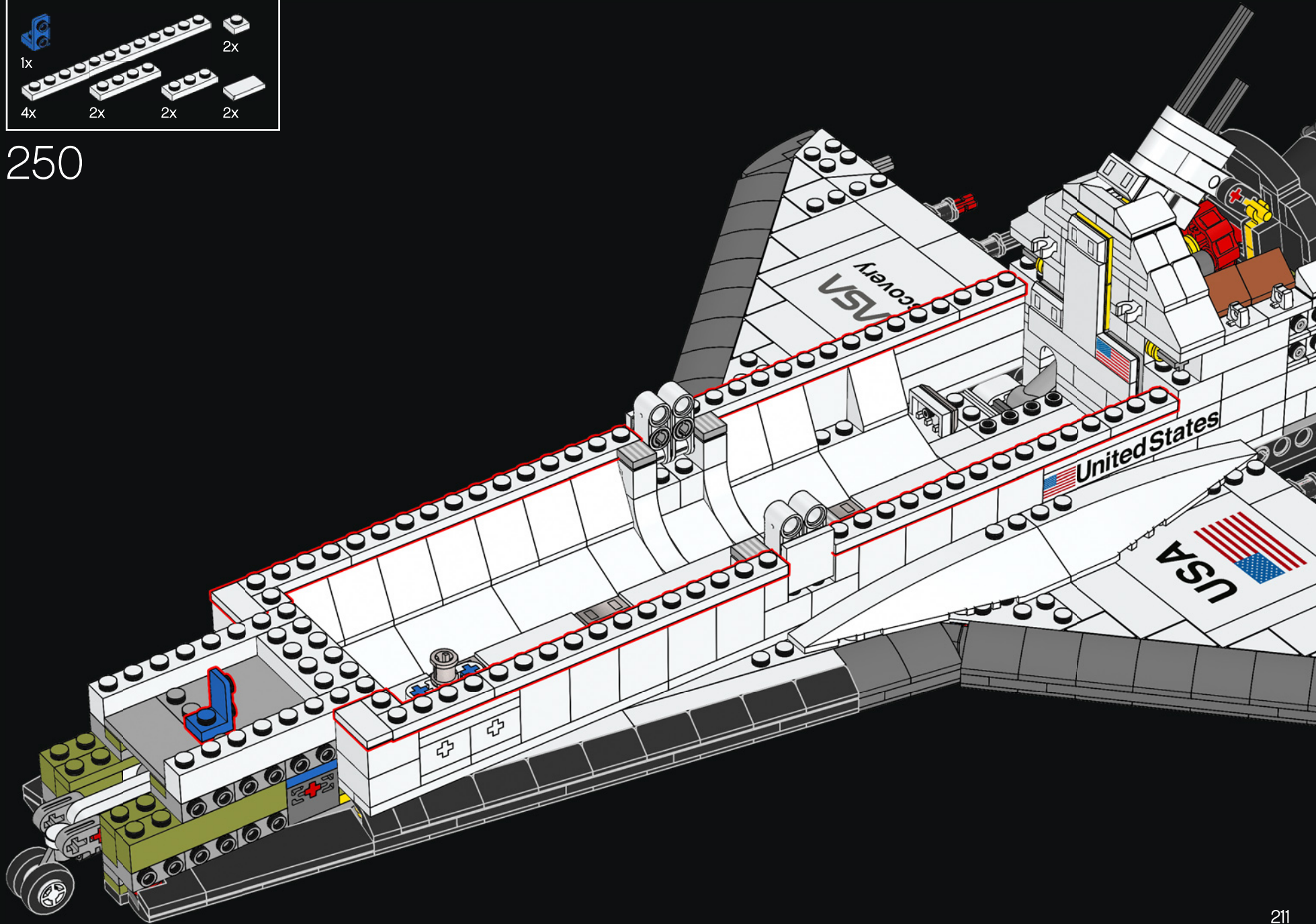
The middeck of the orbiter is where much of the crew's equipment is stored. It's here the astronauts change into their spacesuits before exiting the airlock and floating into the payload bay.

249



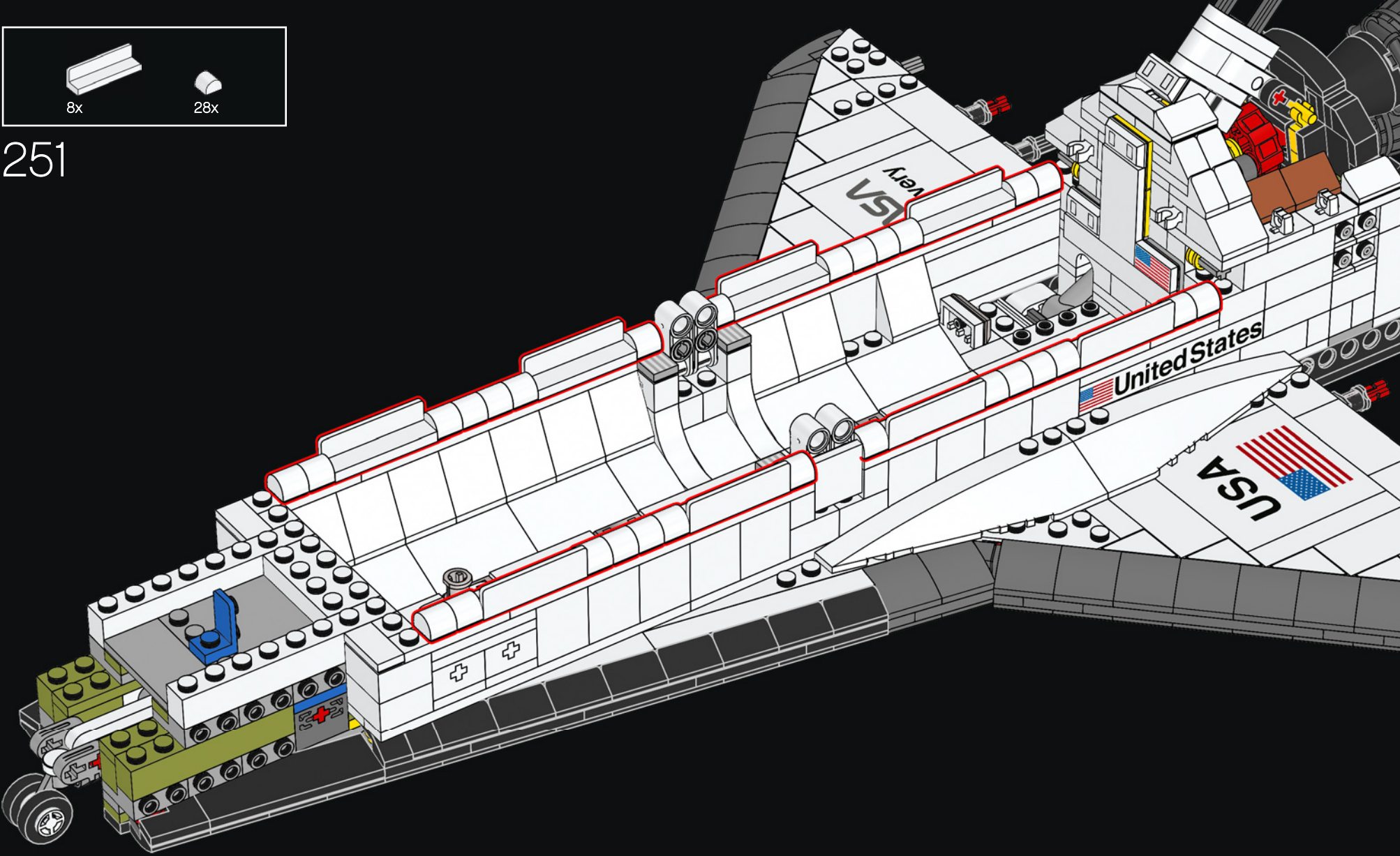


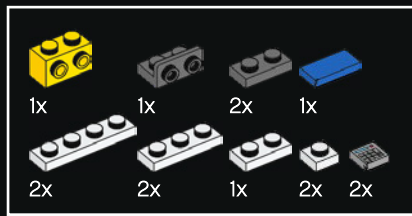
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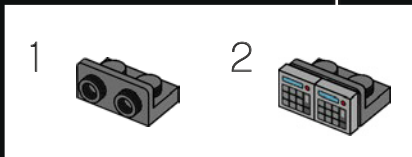
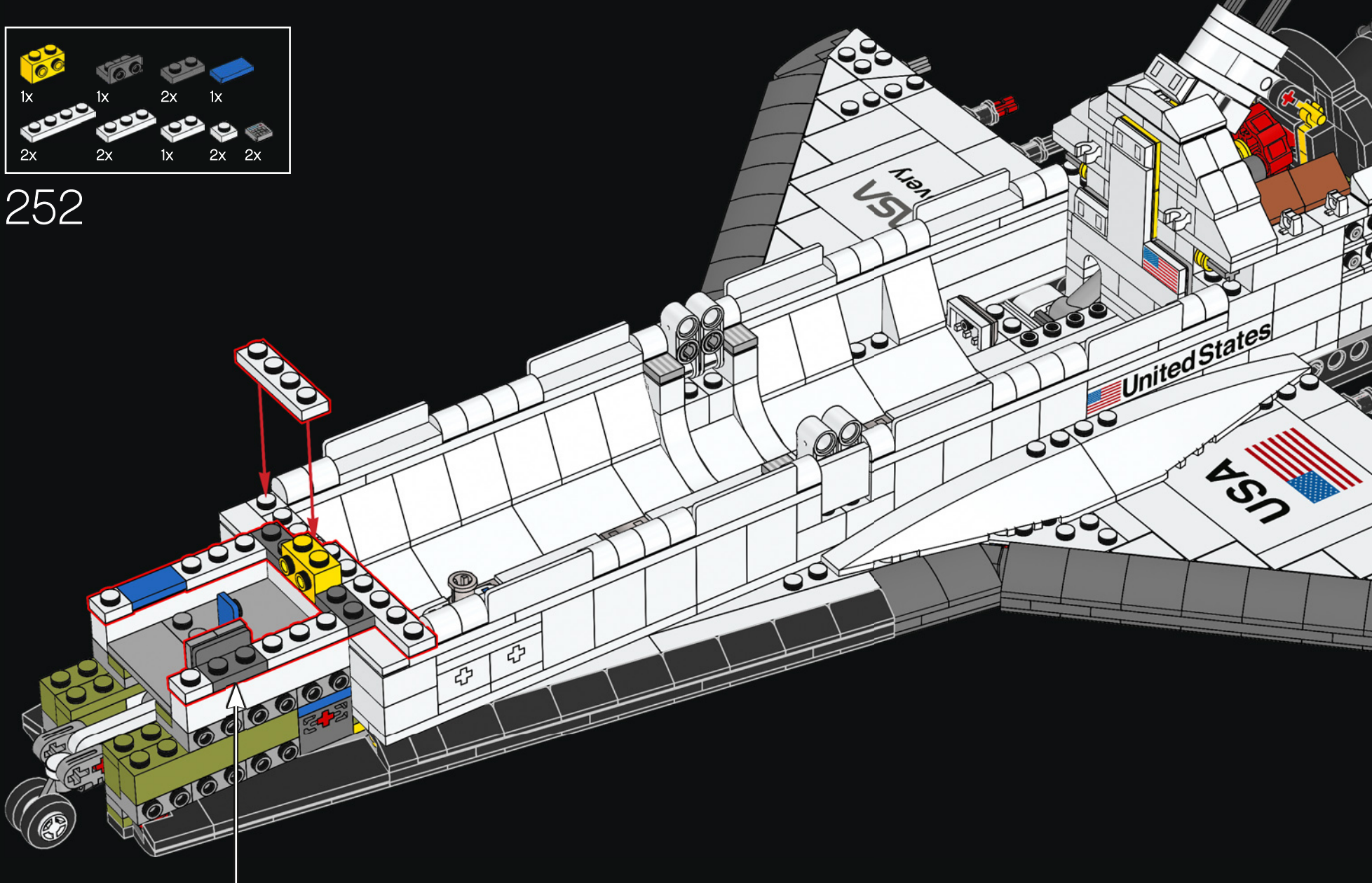


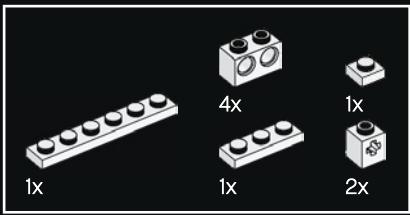
251



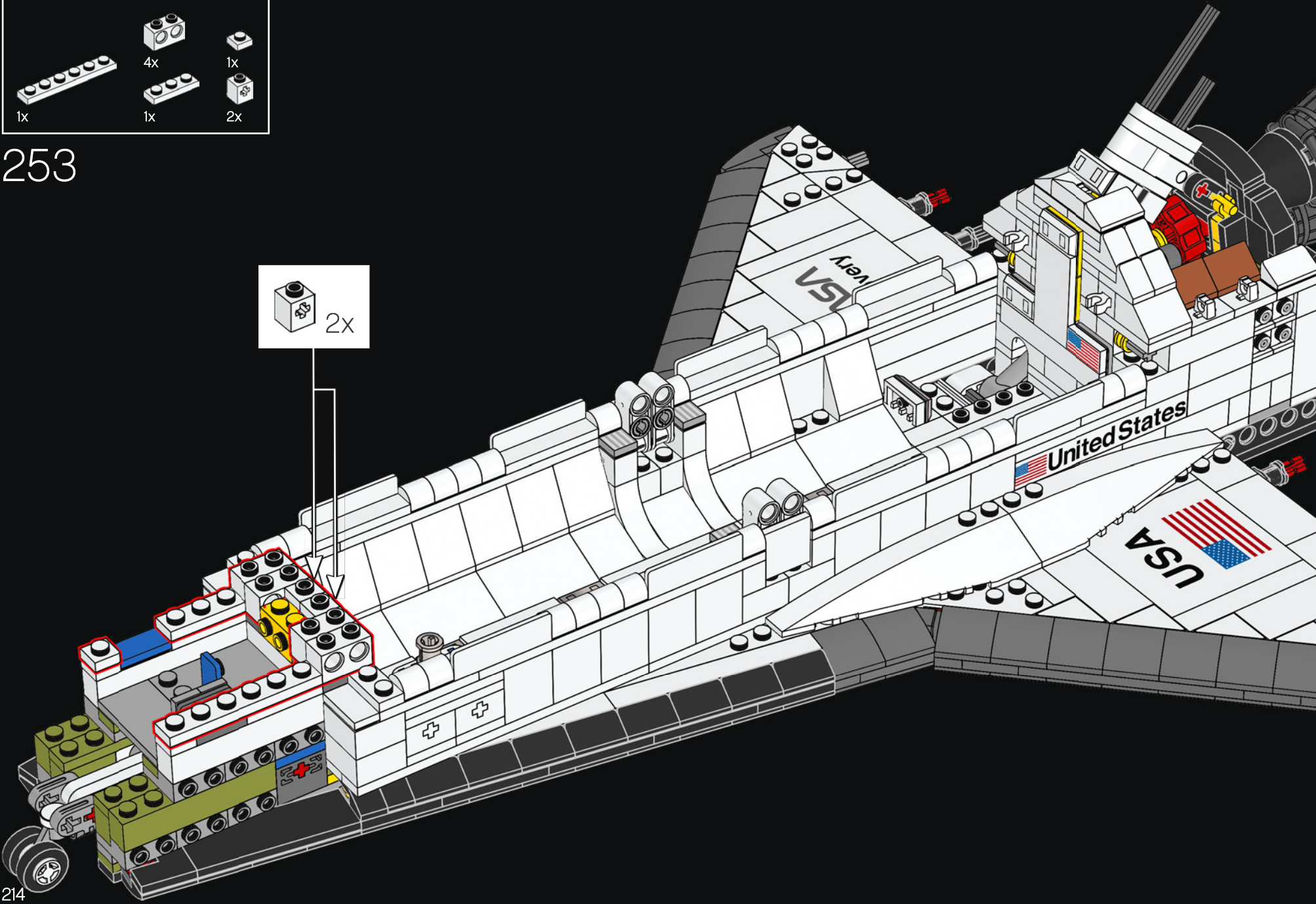
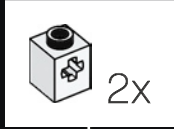


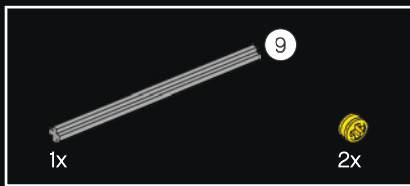
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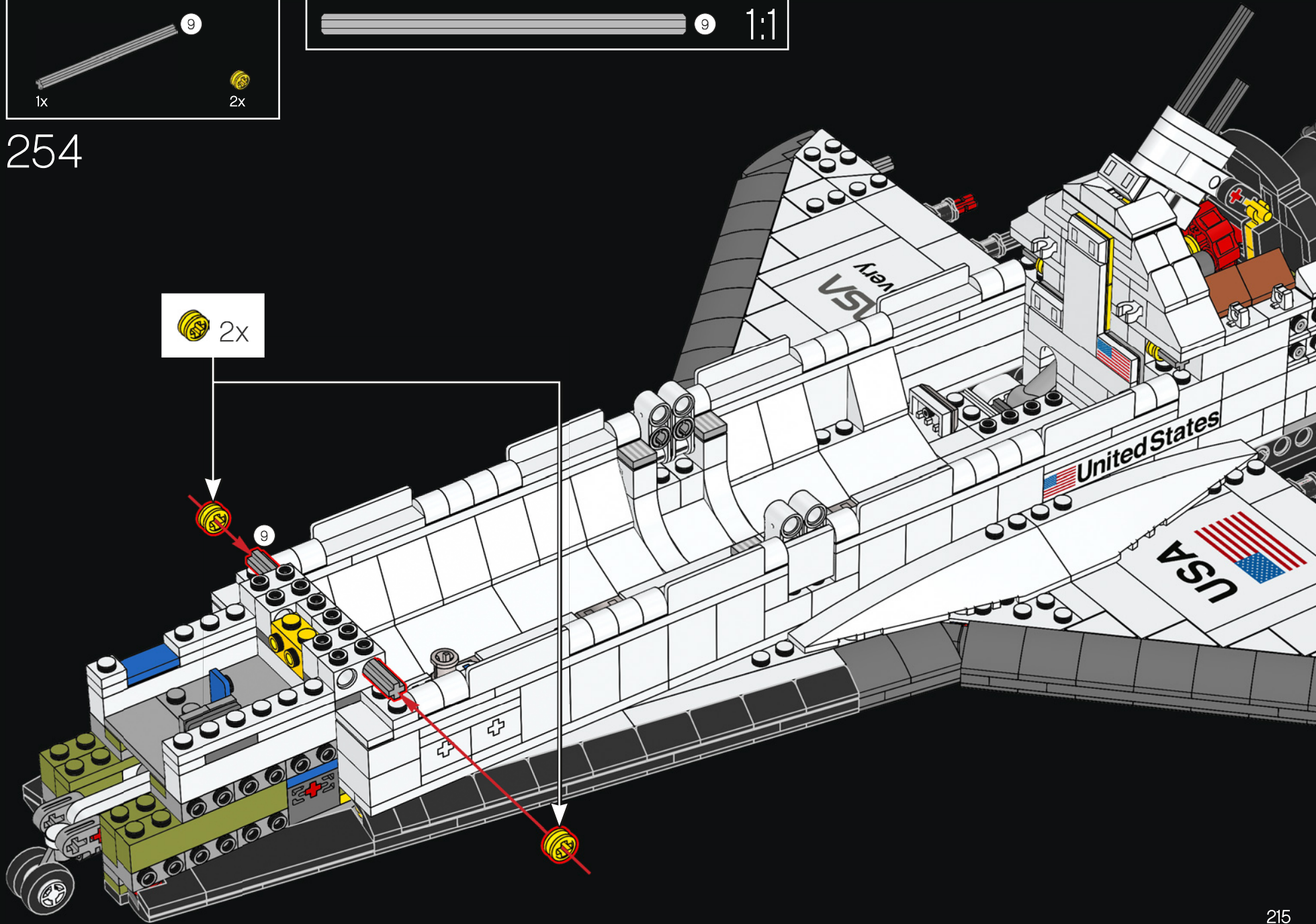
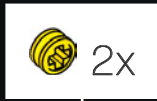


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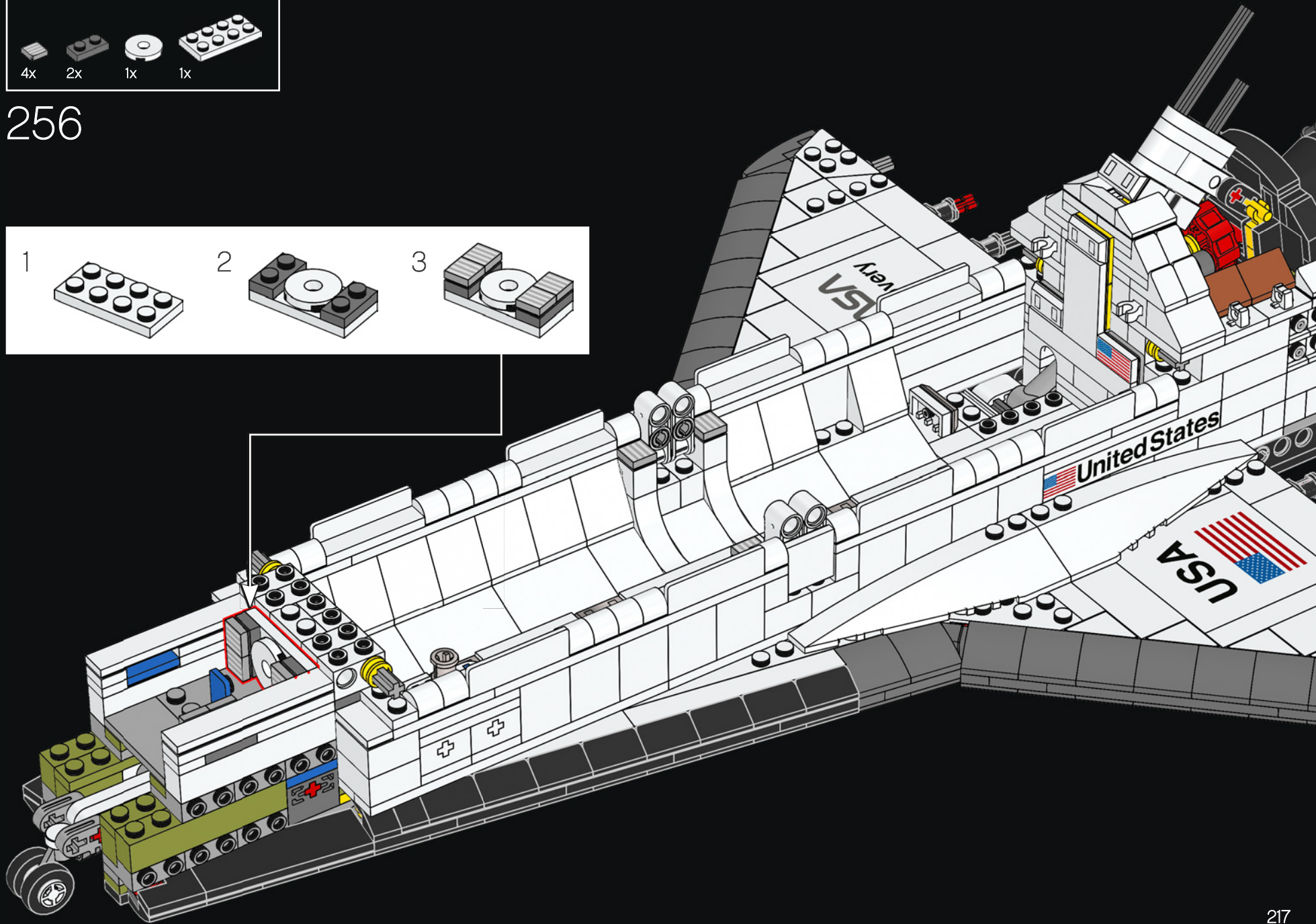
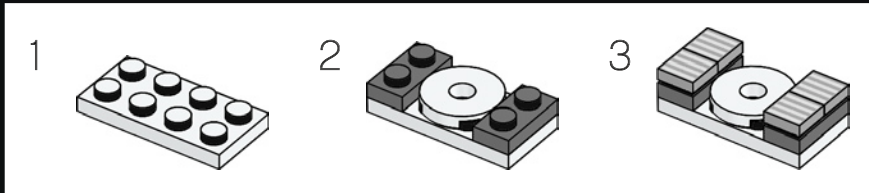


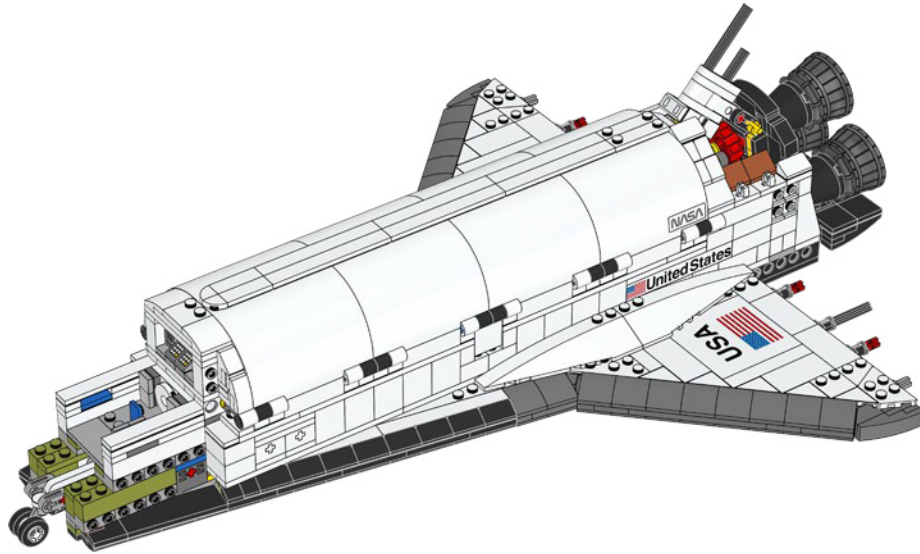
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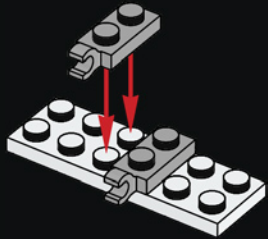


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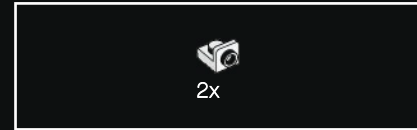
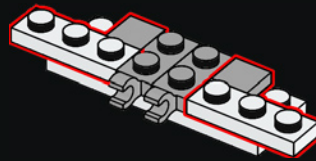




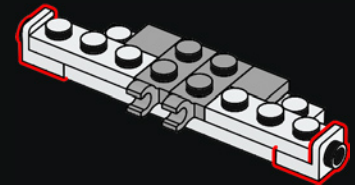
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258

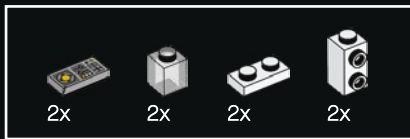
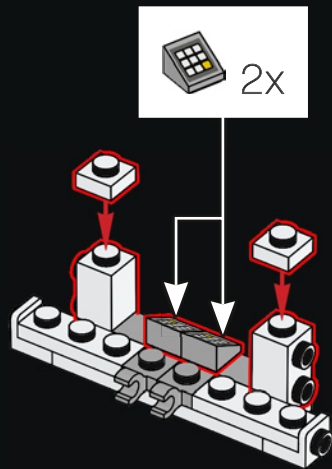


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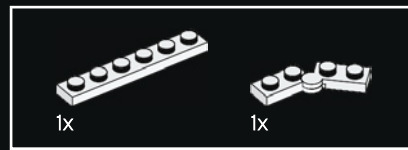
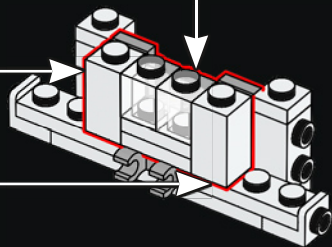
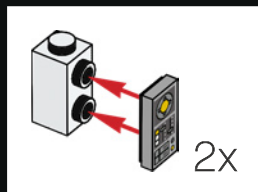
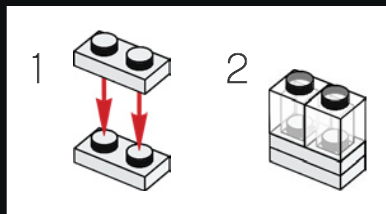




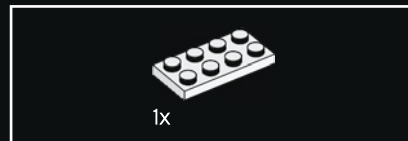
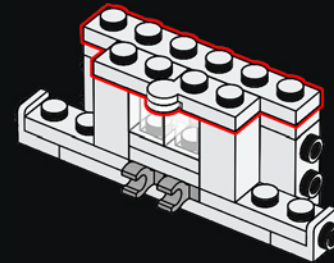
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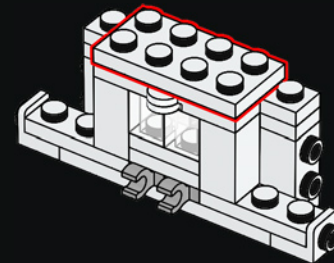
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262

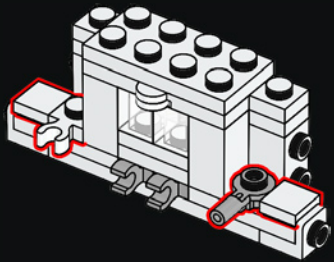


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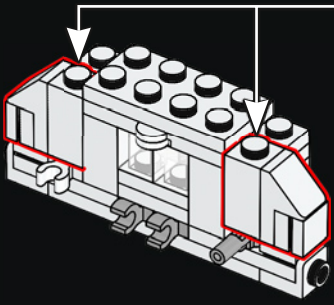
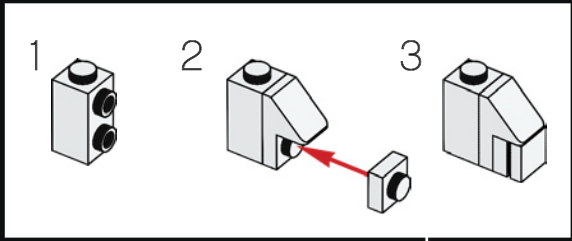




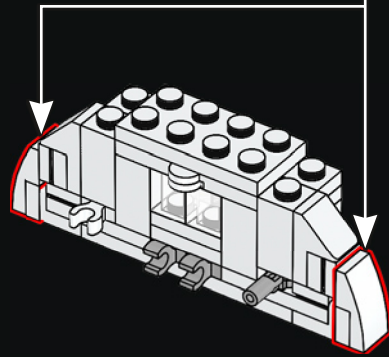
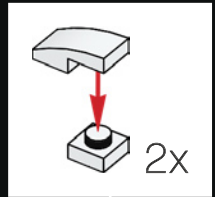
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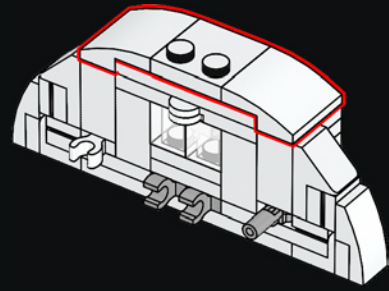
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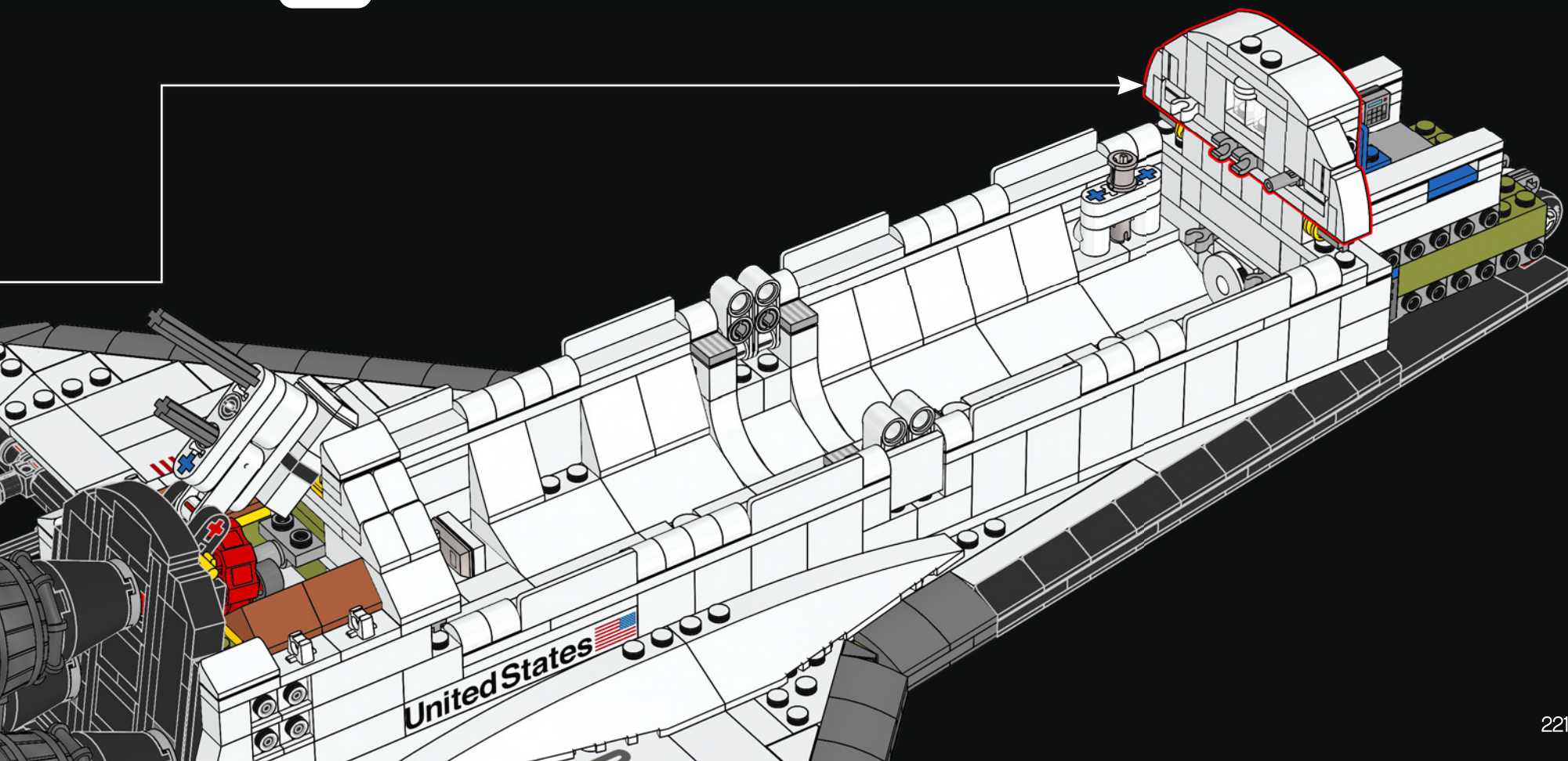


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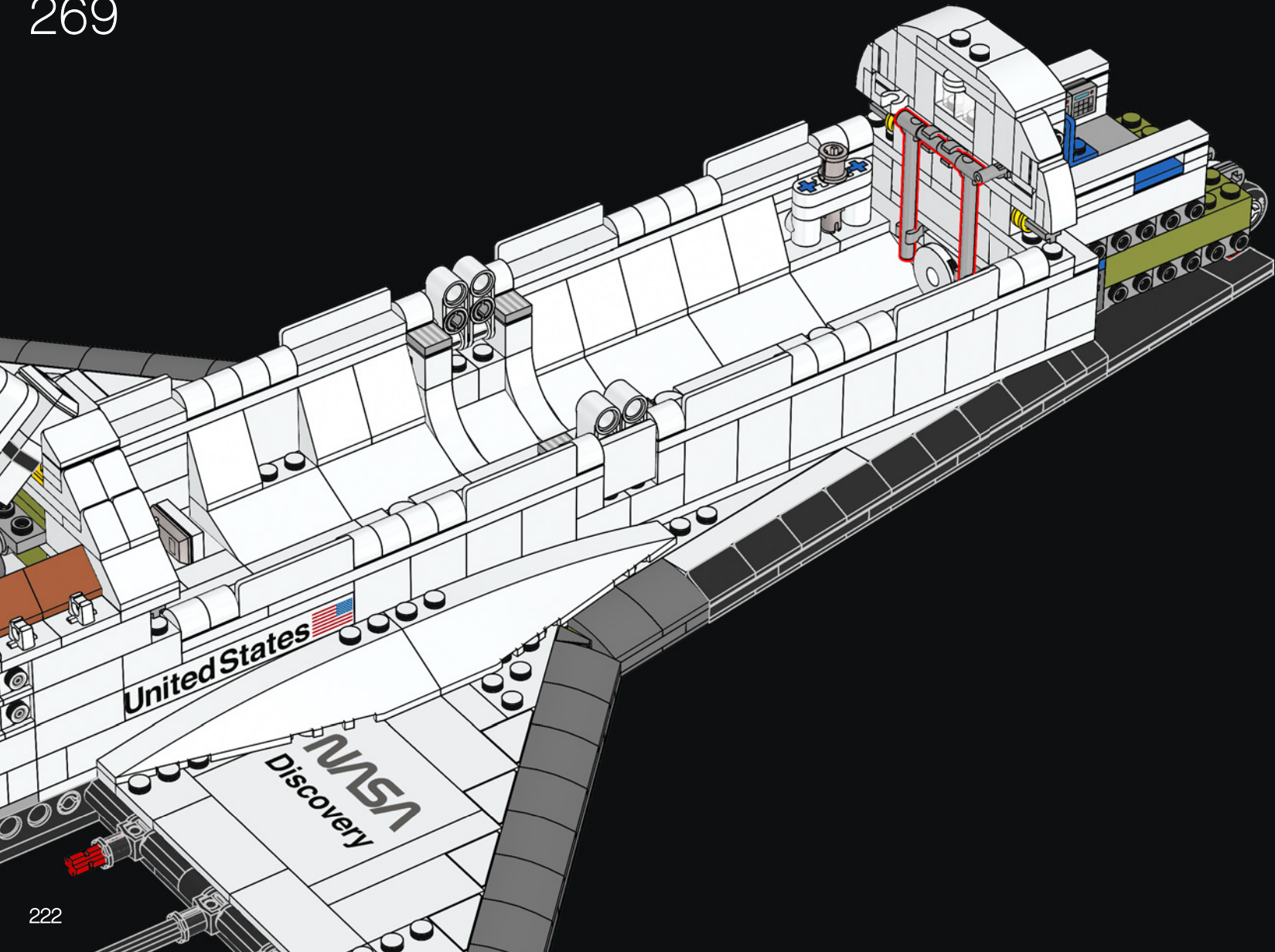
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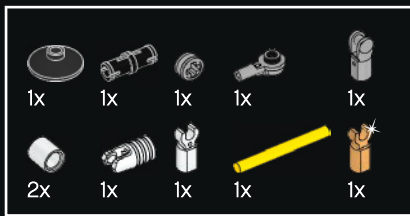




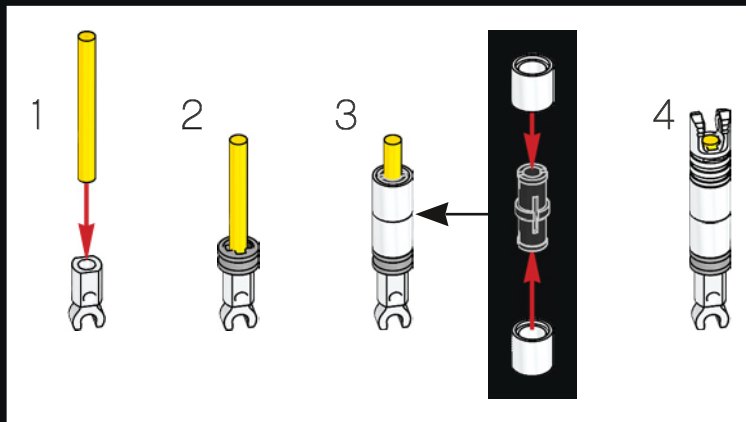
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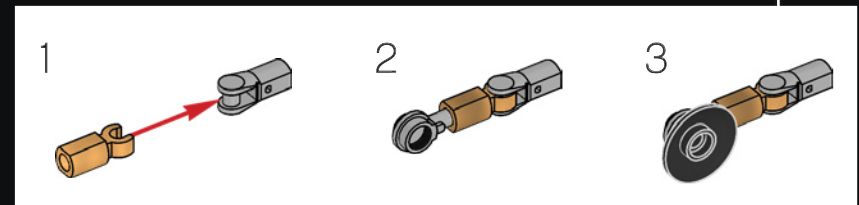
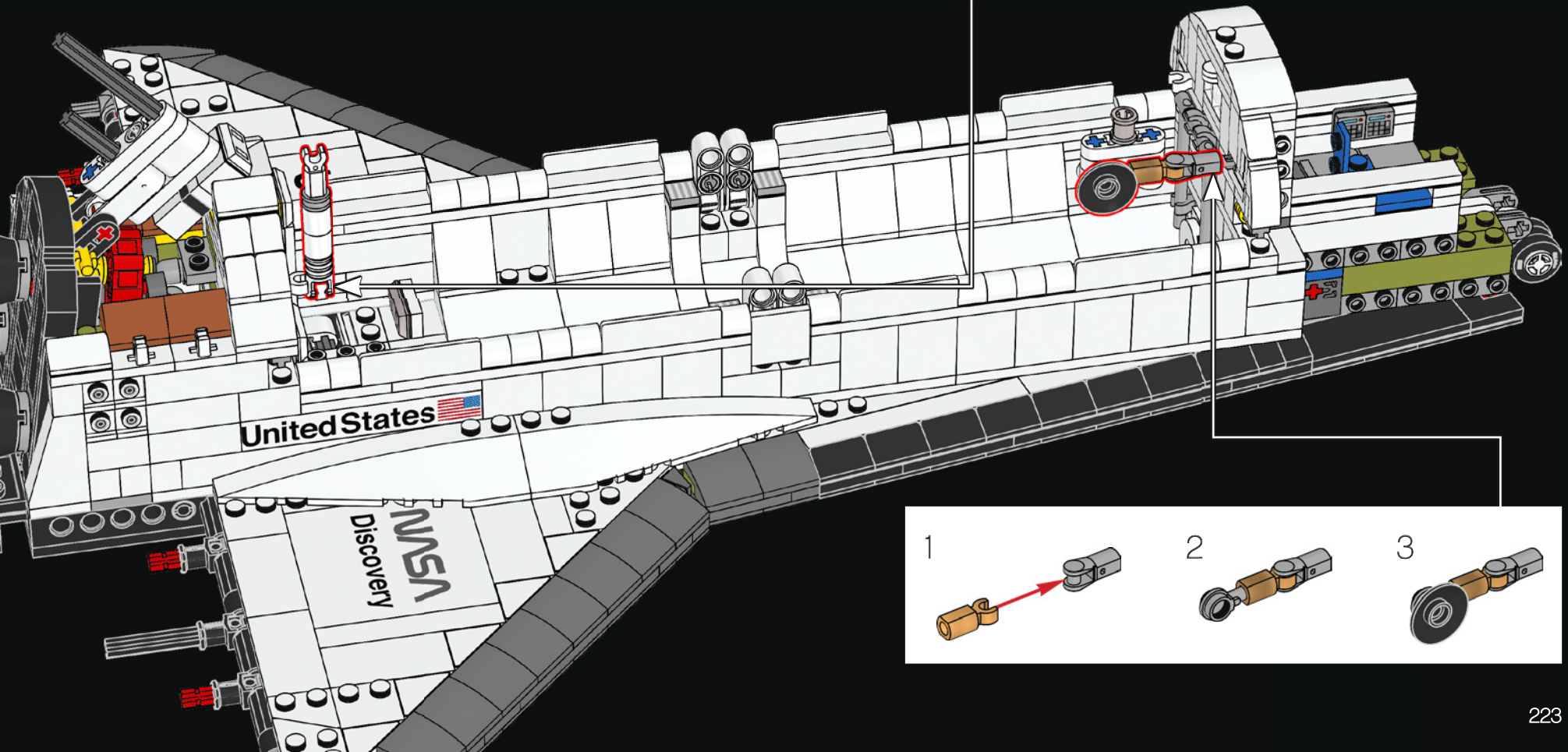


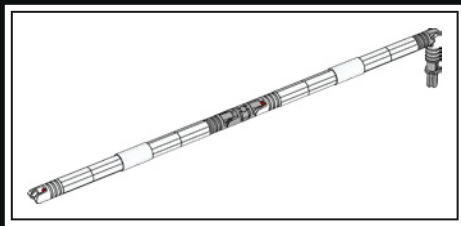
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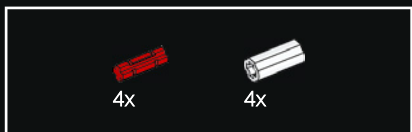
DID YOU KNOW?

The Ku-band antenna is deployed in orbit and allows the crew of the shuttle to send and receive communications from Earth.

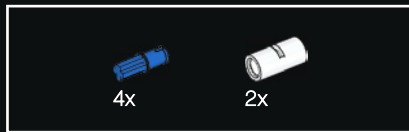
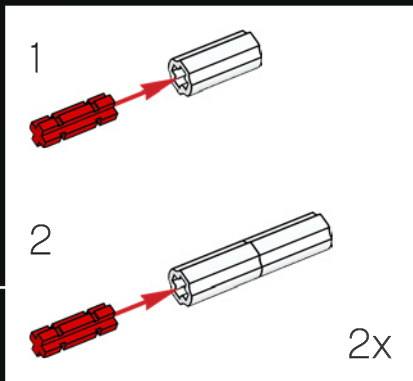
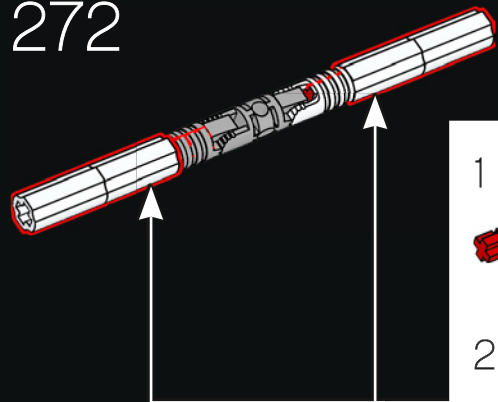




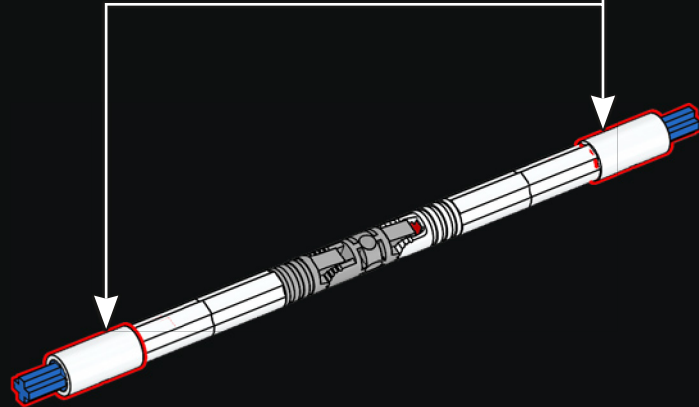
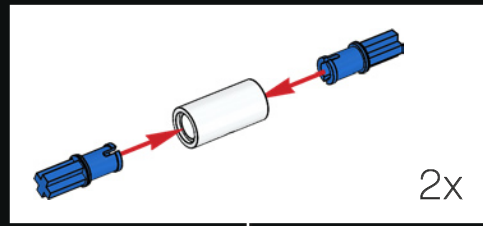
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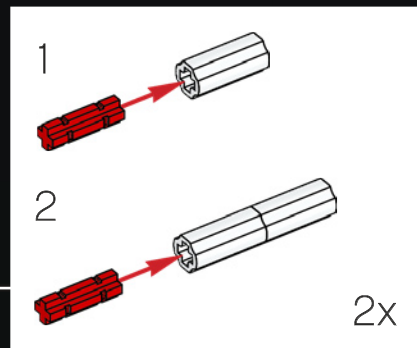
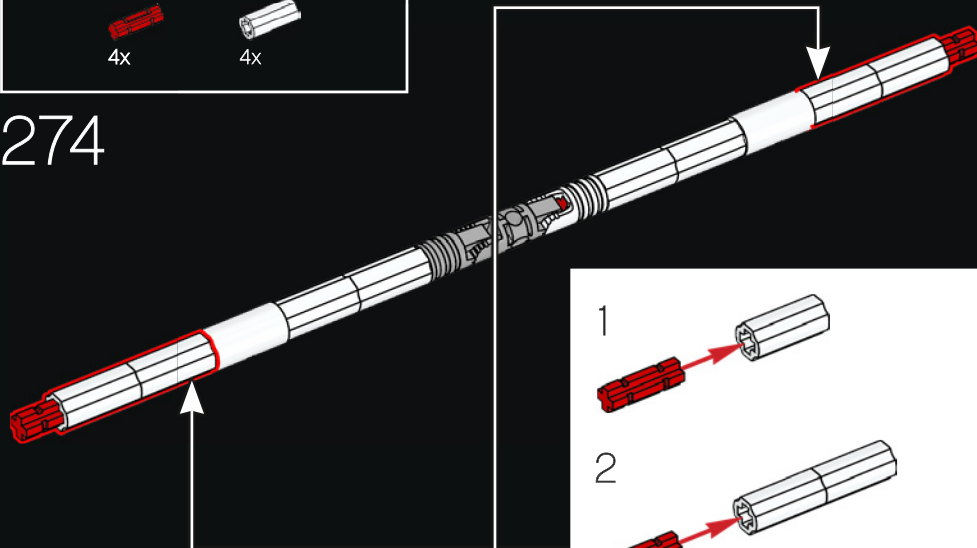
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273

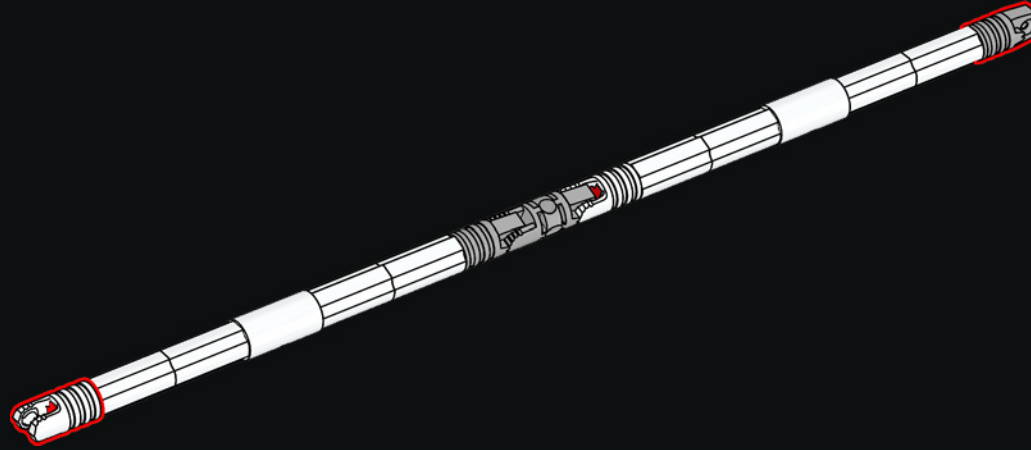


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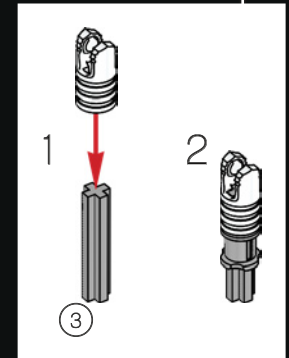
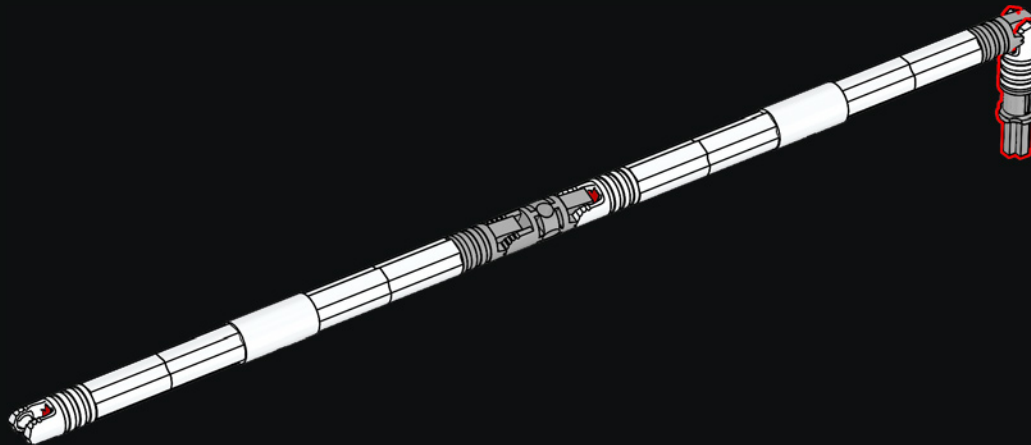




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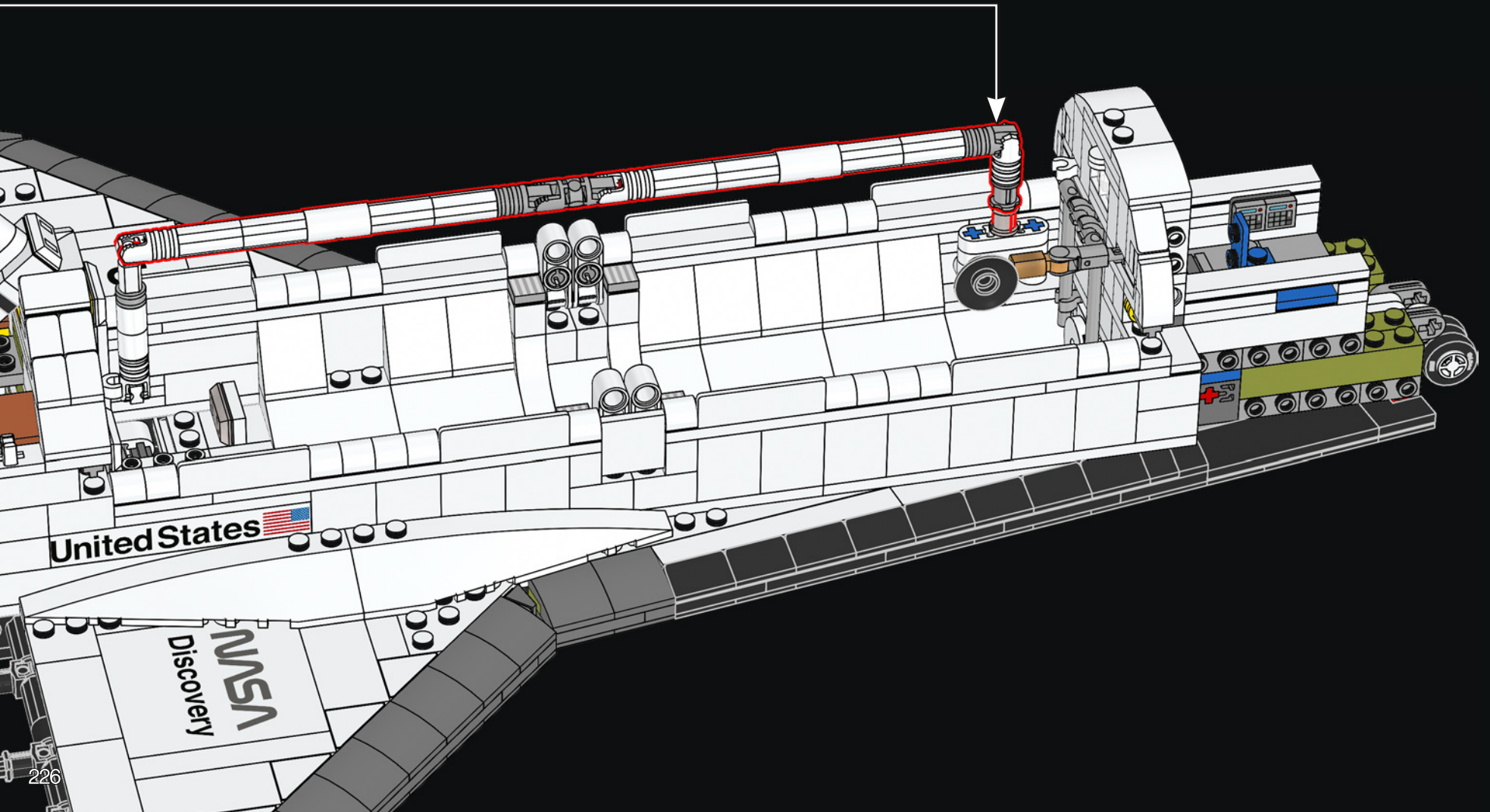
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DID YOU KNOW?

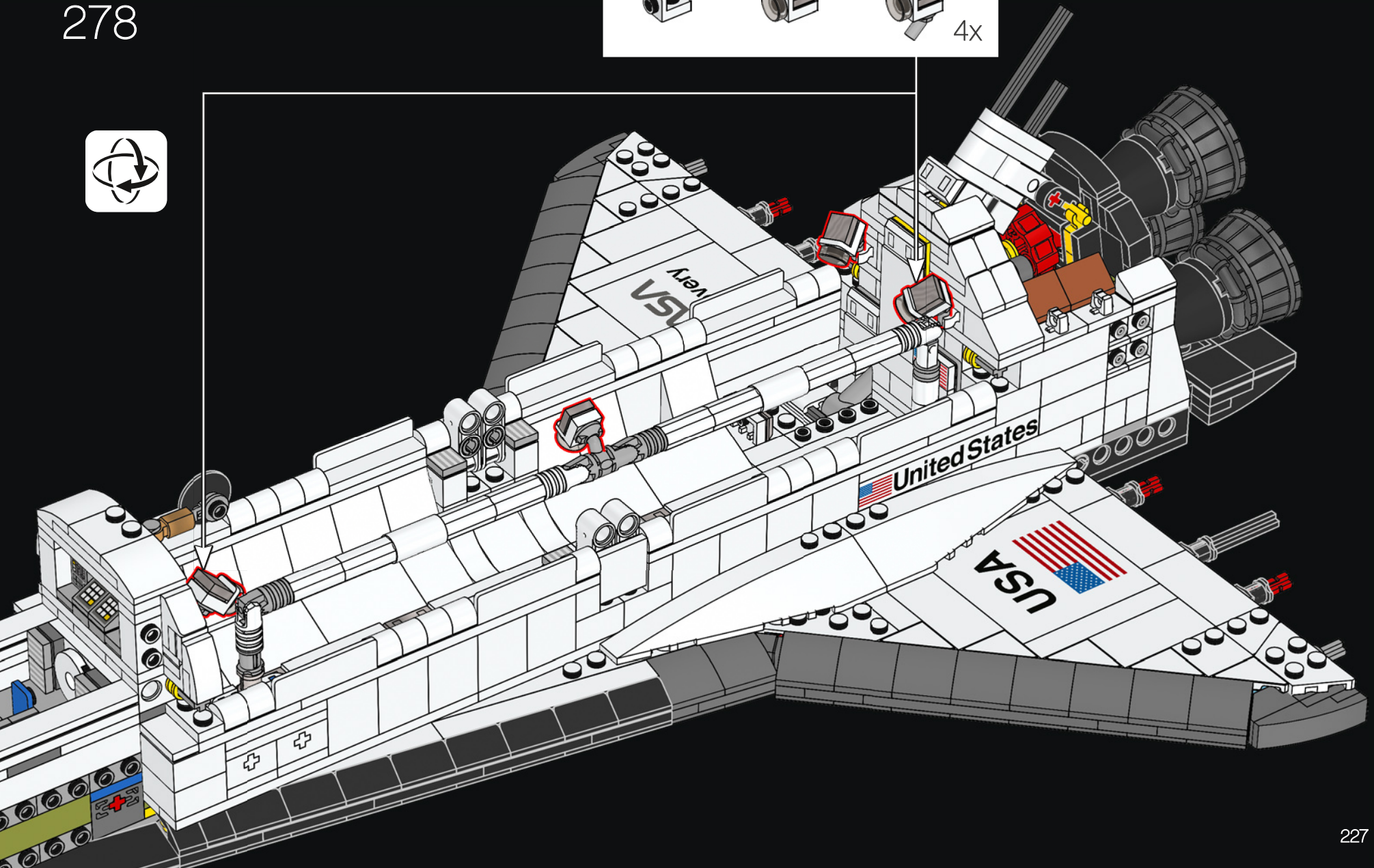
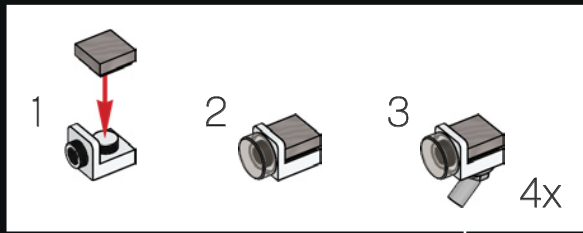
The shuttle's Remote Manipulator System (RMS) was used by astronauts inside to deploy and manoeuvre cargo in the payload bay and astronauts during spacewalks.

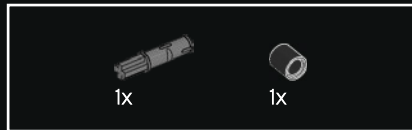
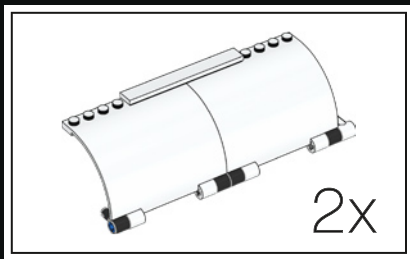
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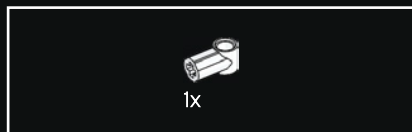
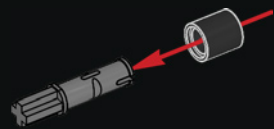


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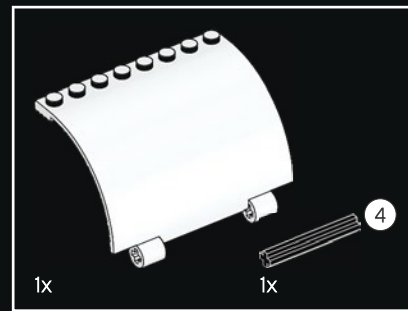




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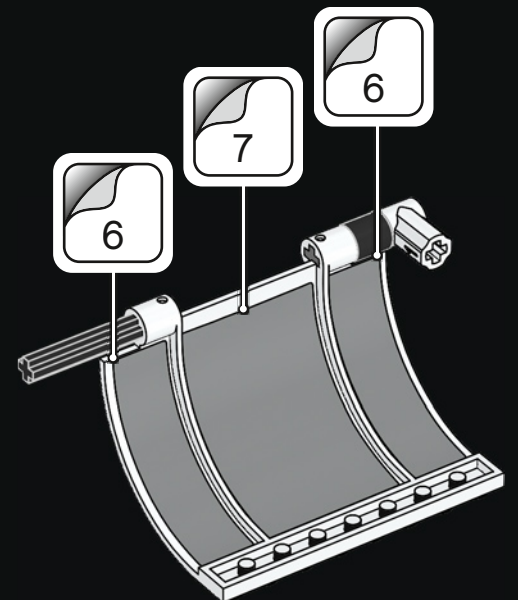
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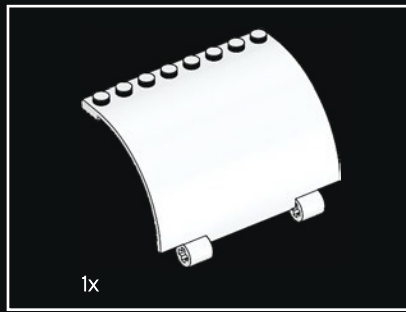
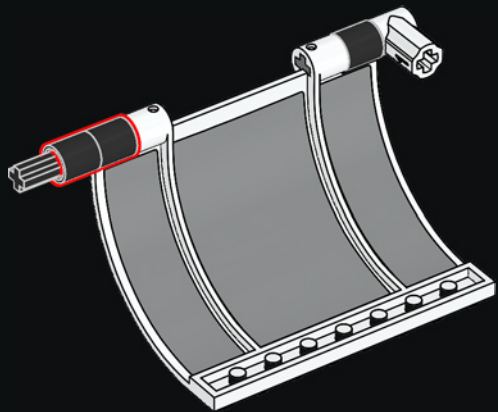


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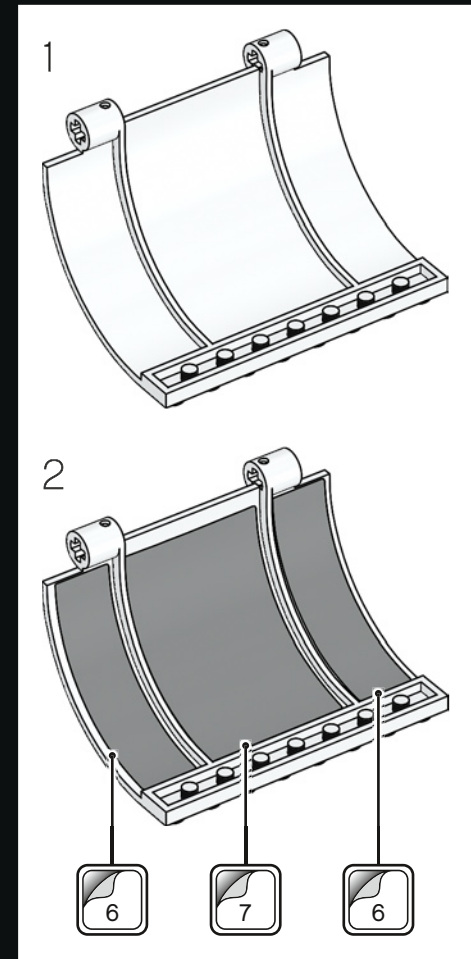
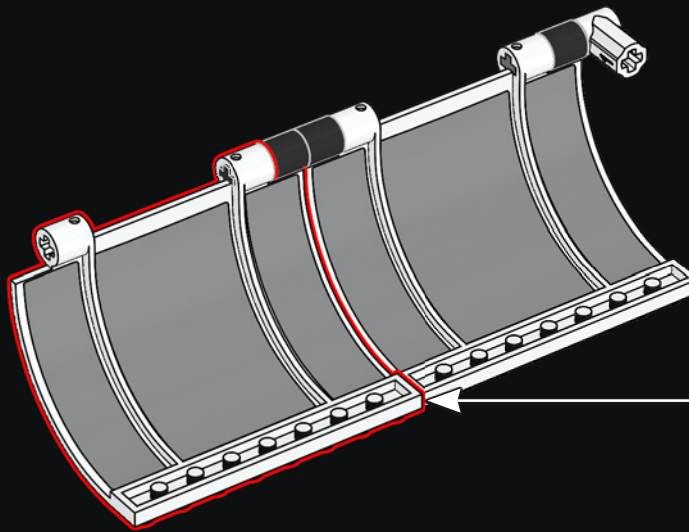




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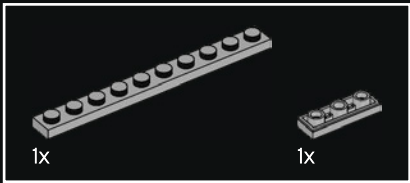
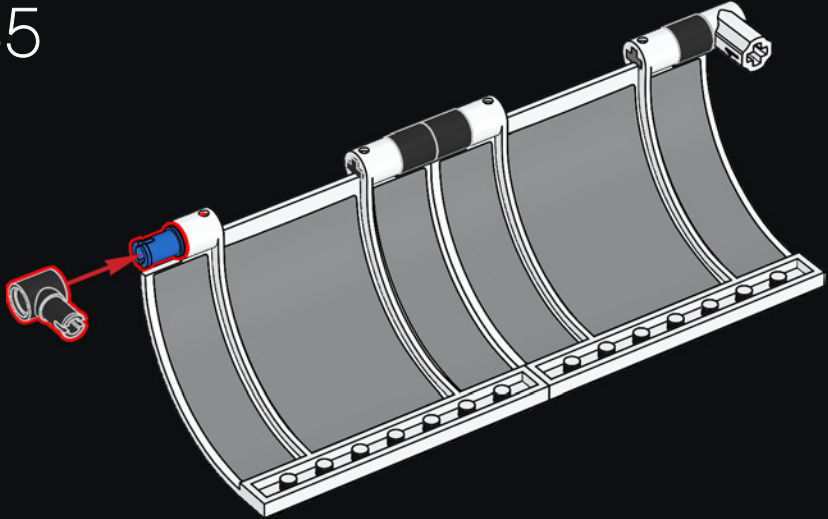


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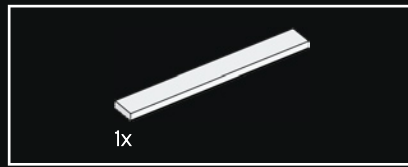
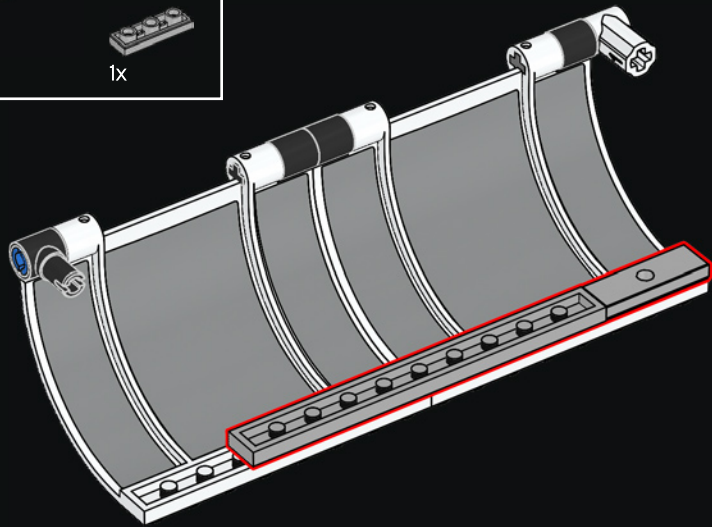




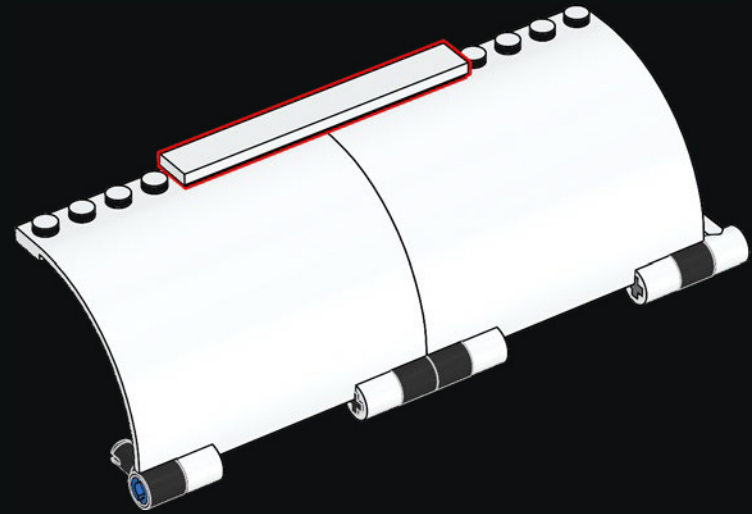
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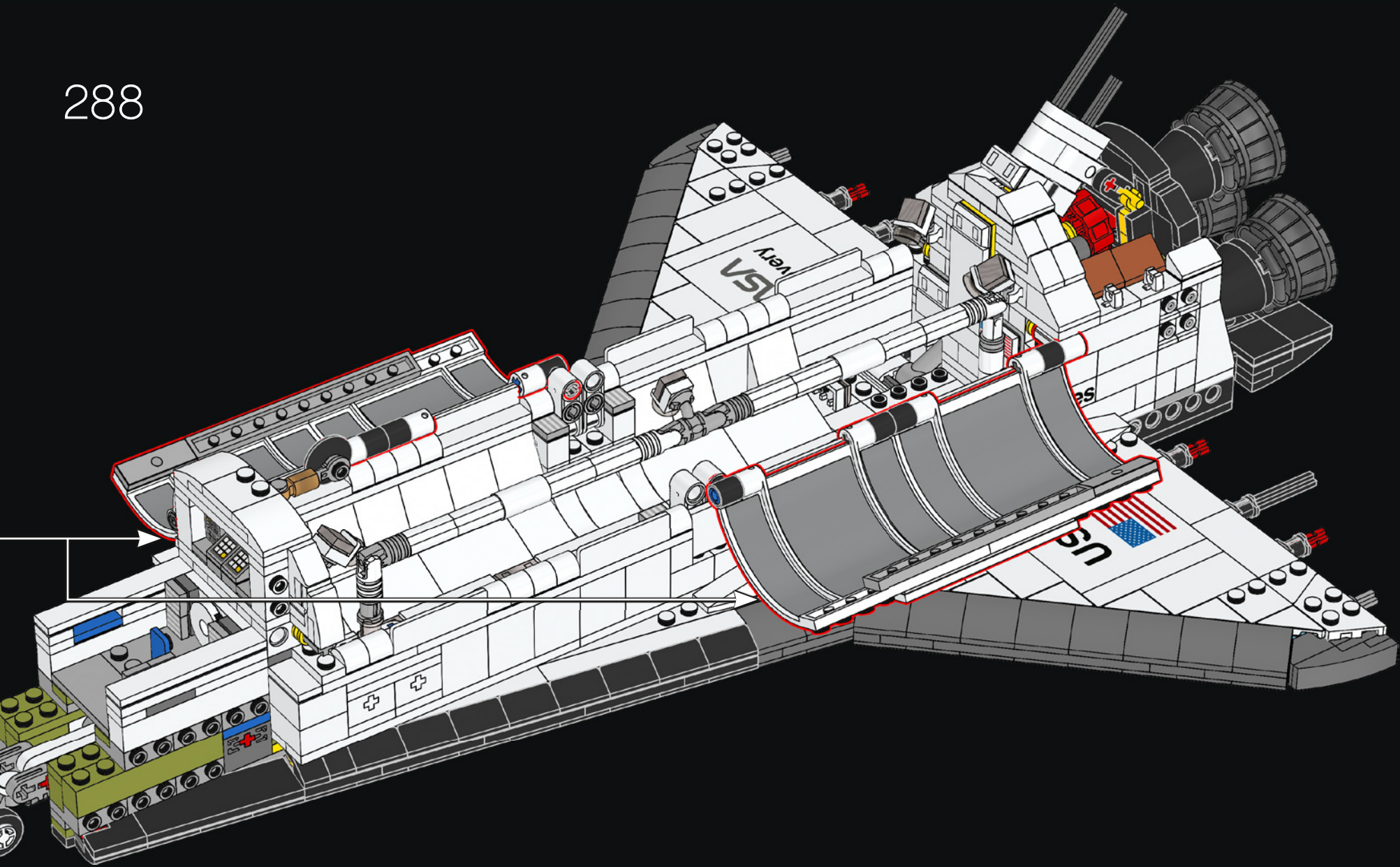
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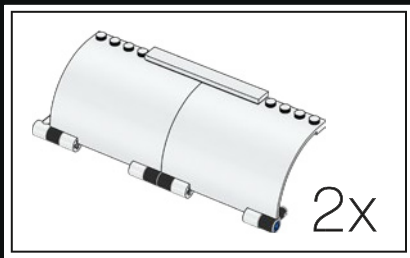


287



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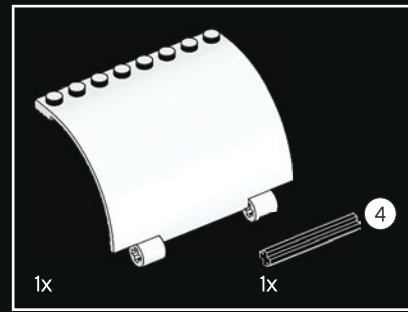
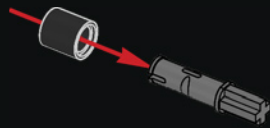




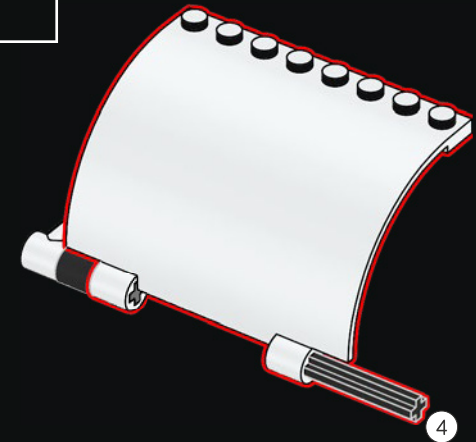
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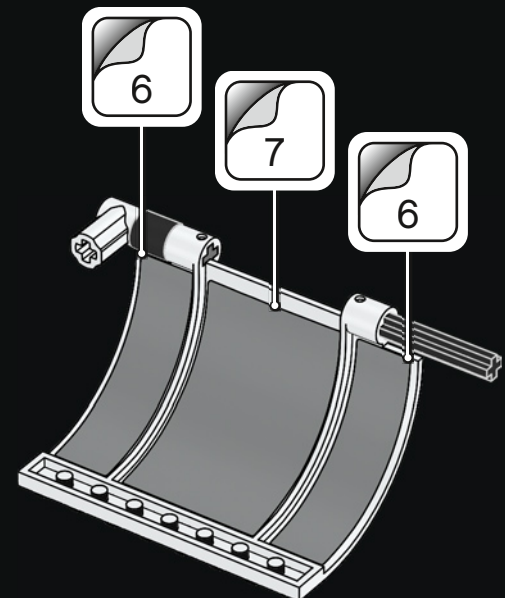
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291

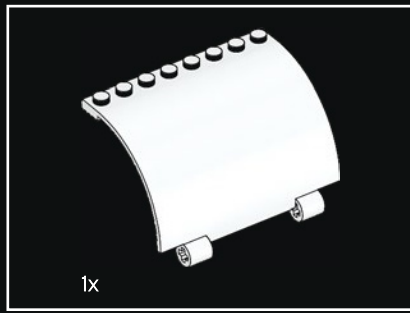


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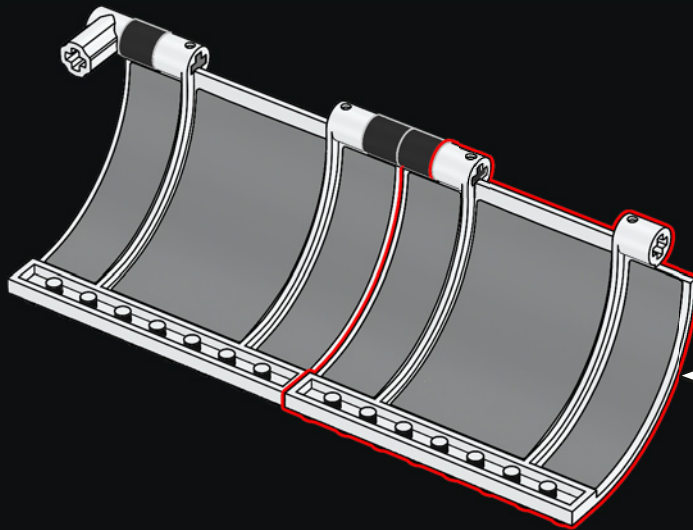
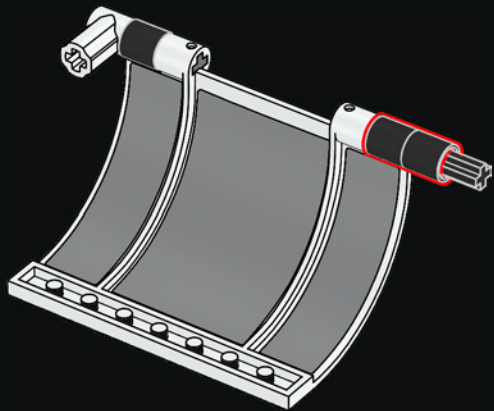
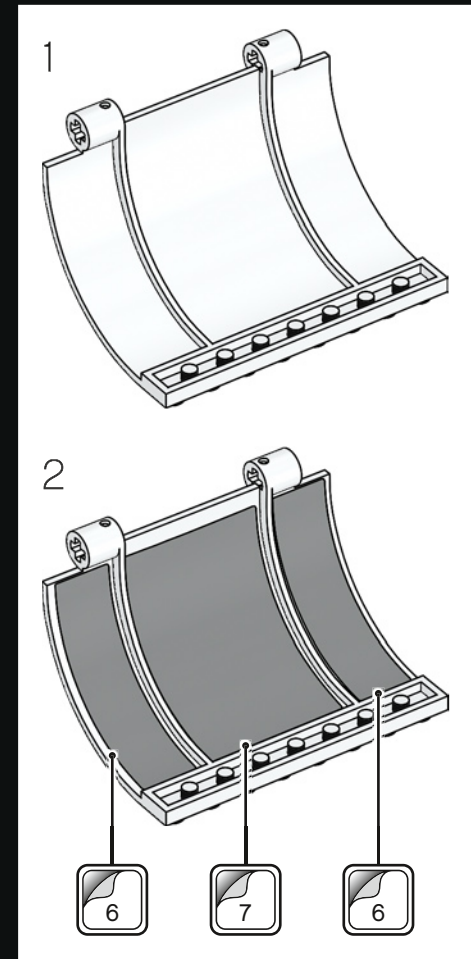




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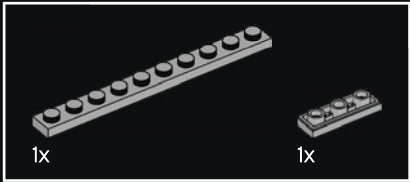
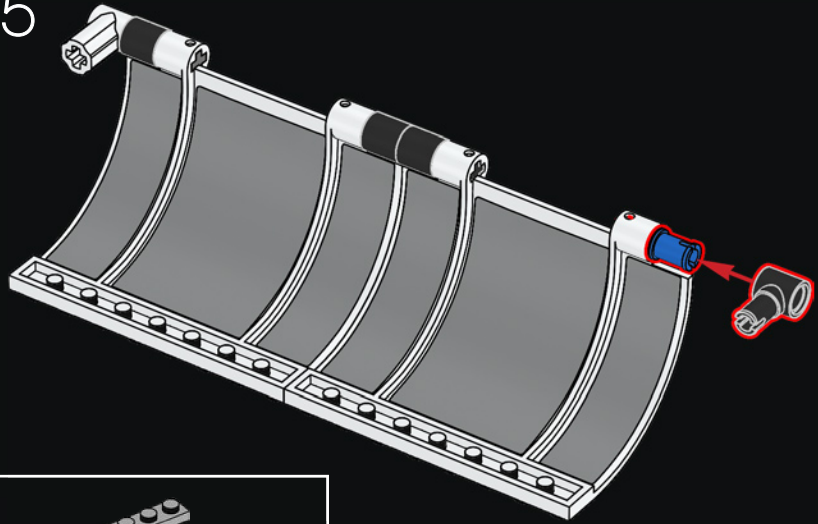


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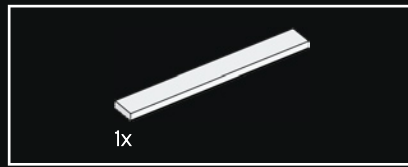
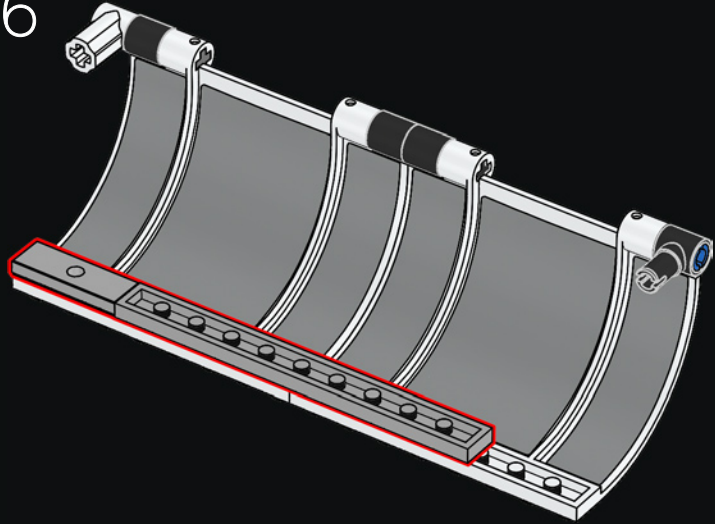




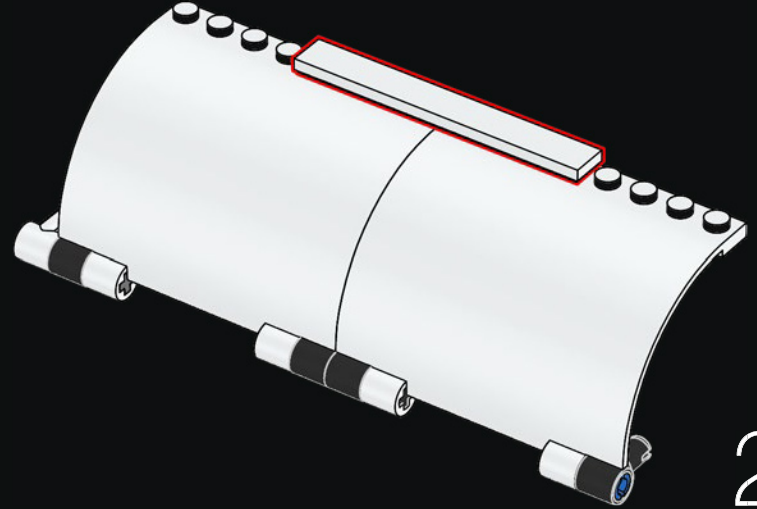
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296



297

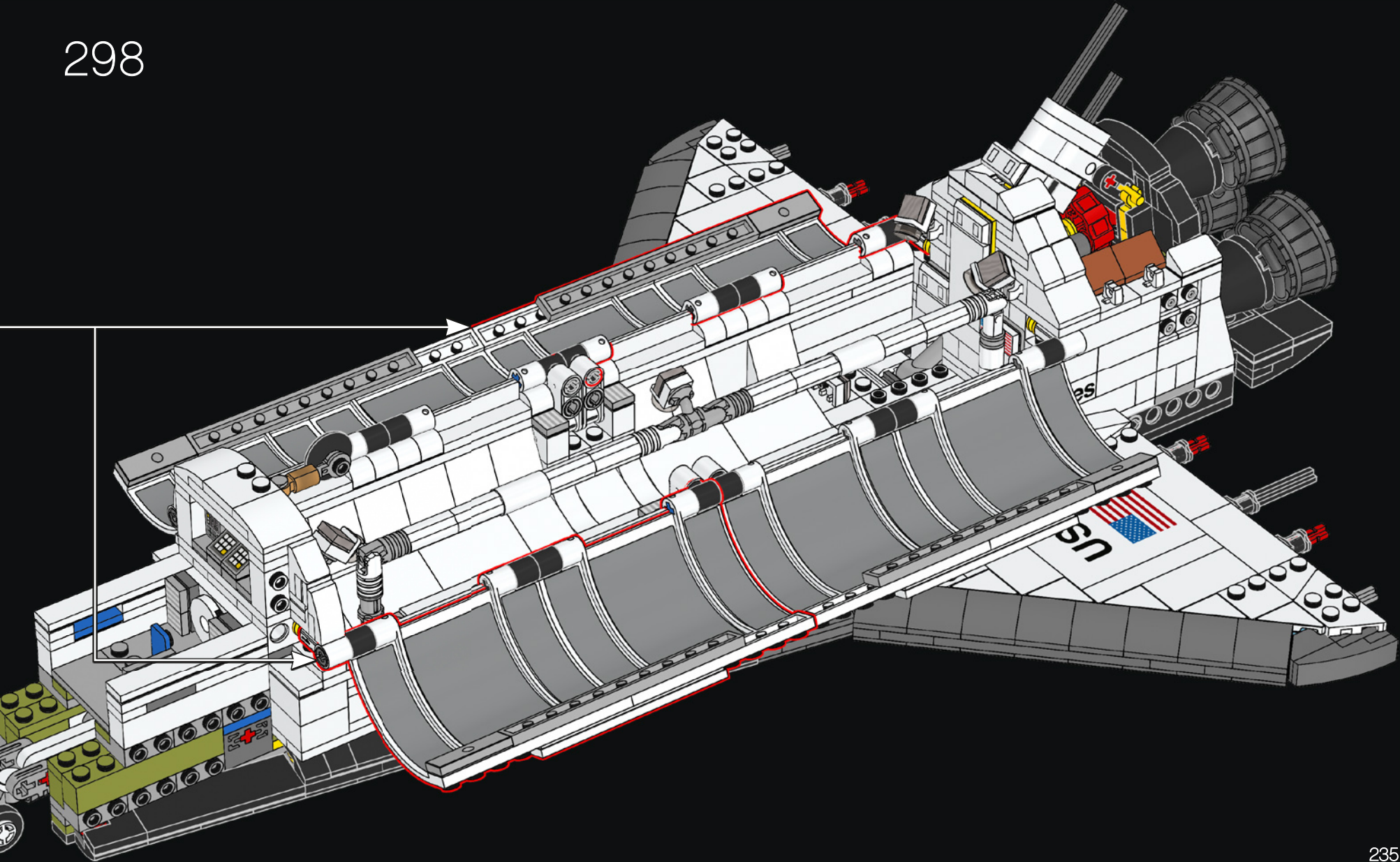


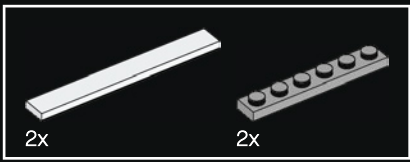
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DID YOU KNOW?

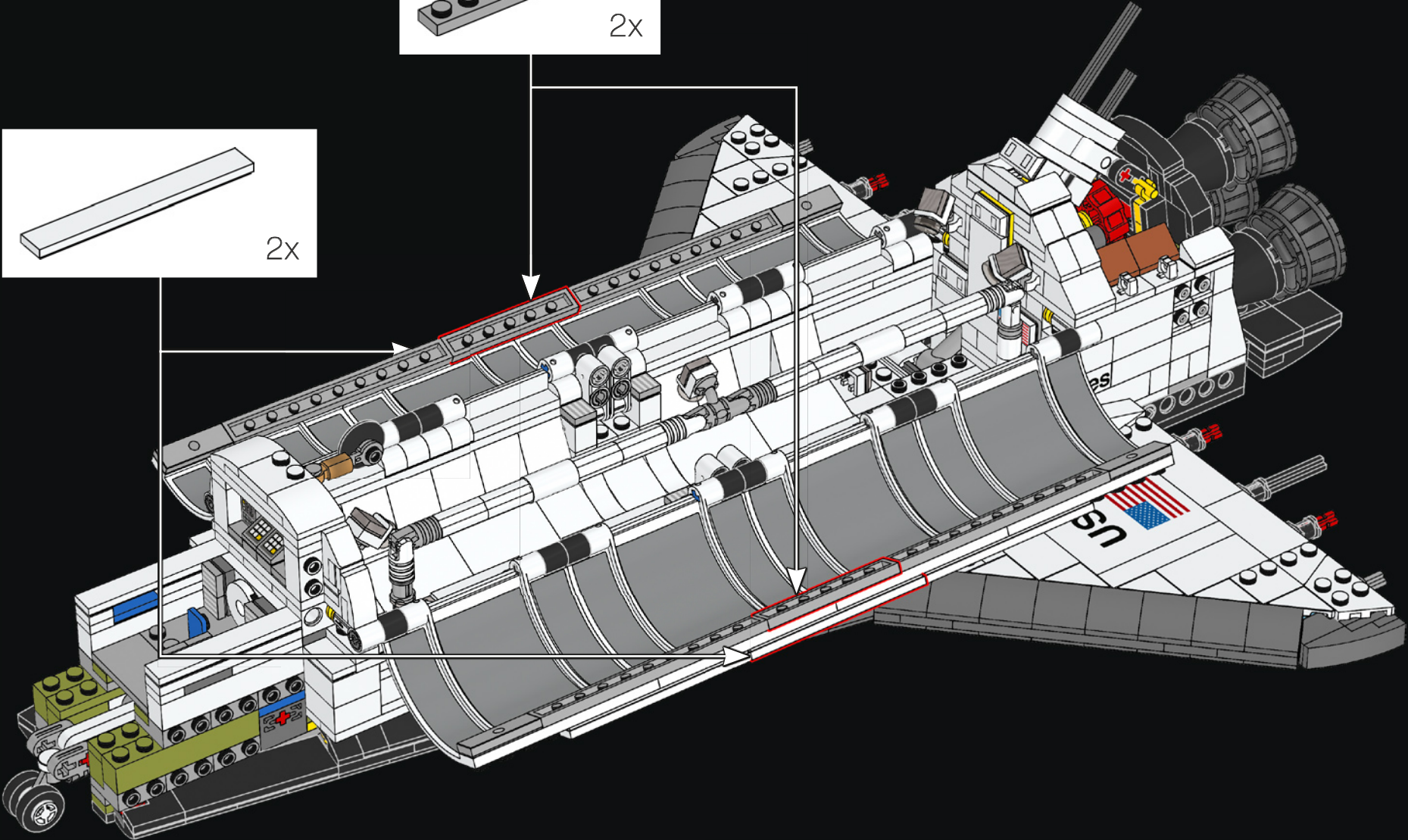
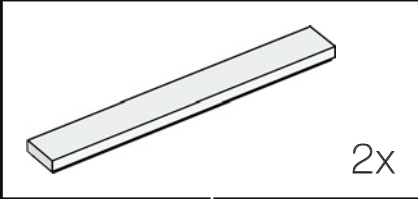
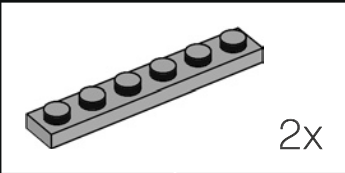
The 18.2 m (60 ft.) long payload bay doors are always opened to activate radiators for cooling the shuttle after it has reached orbit.

298



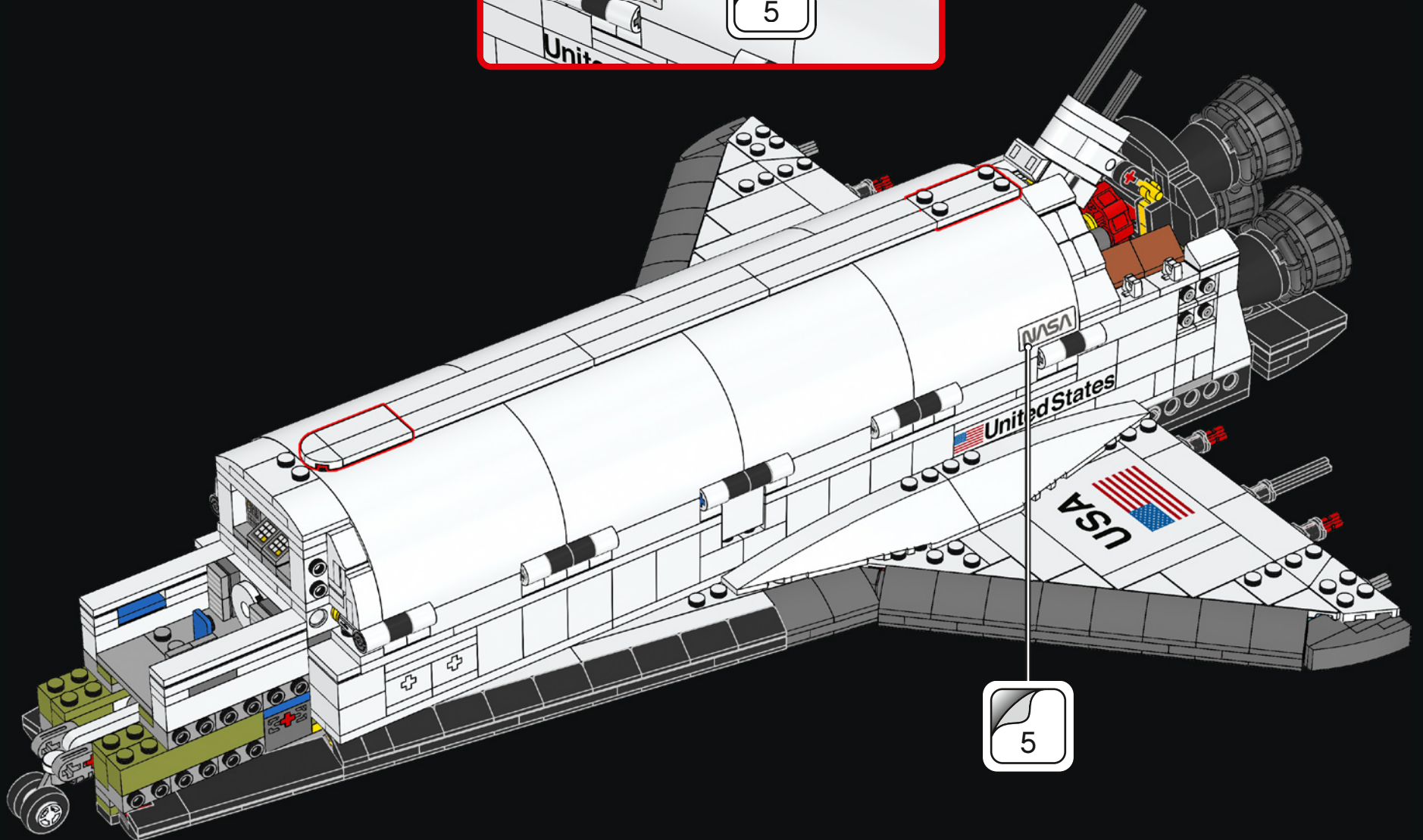
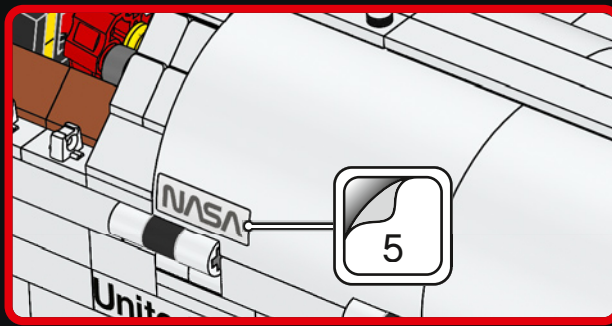


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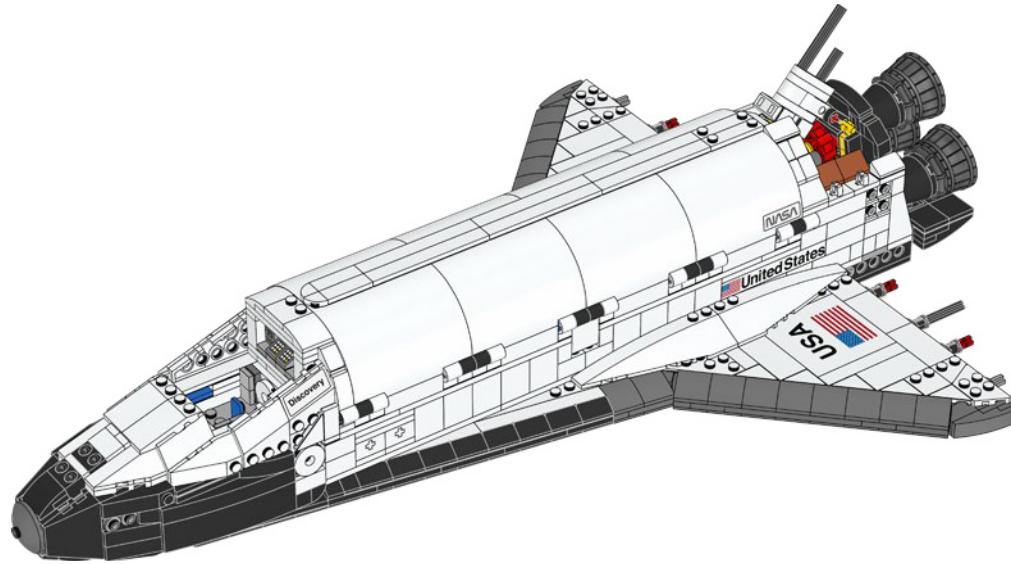


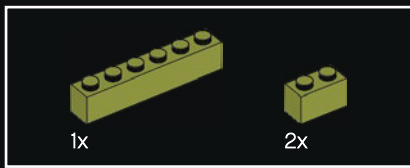


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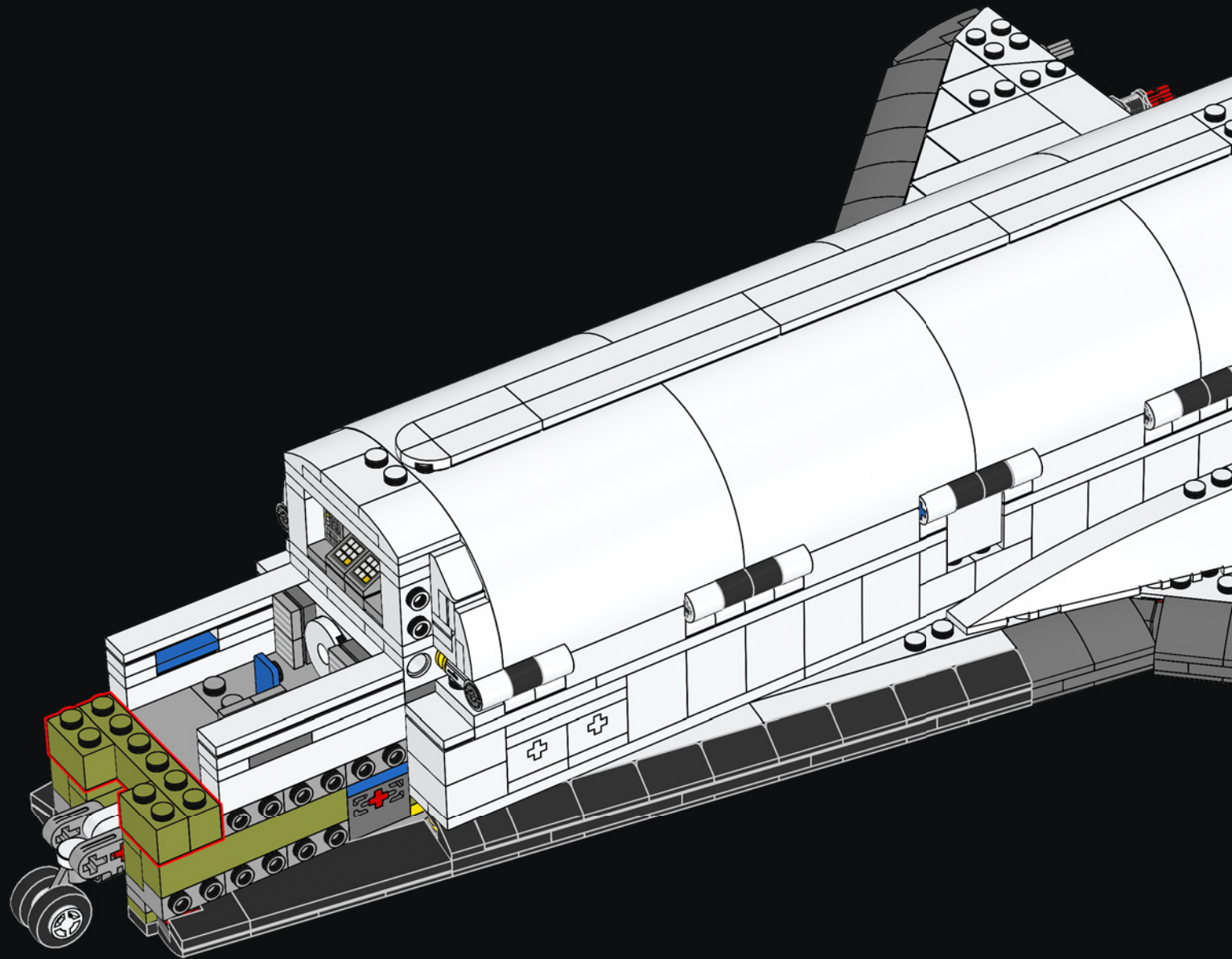


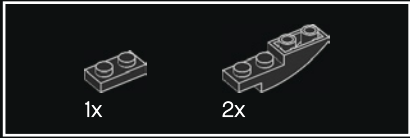
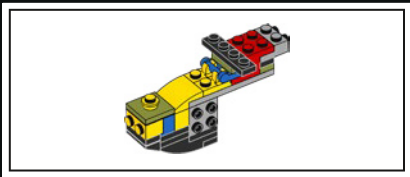
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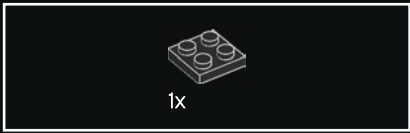
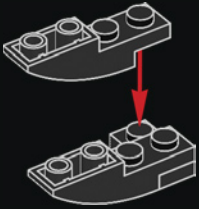


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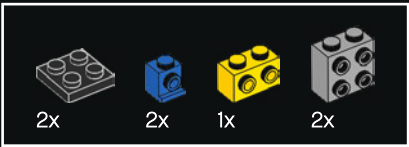
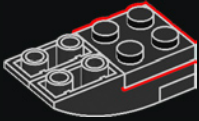




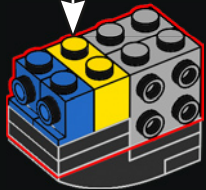
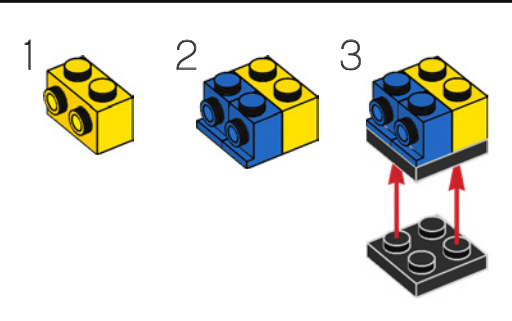
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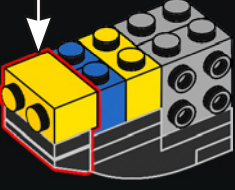
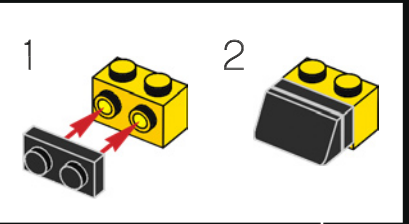
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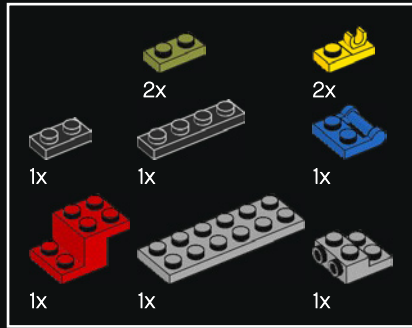


304

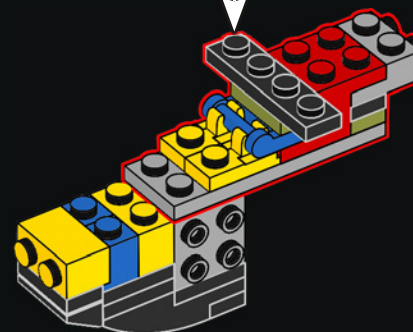
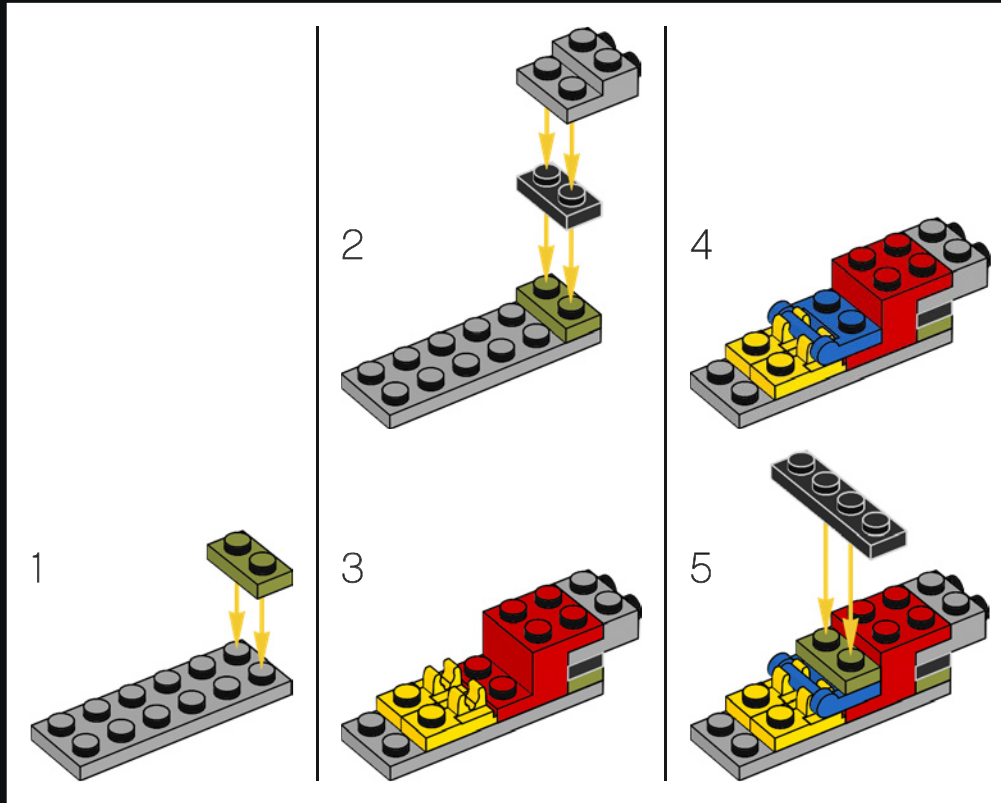


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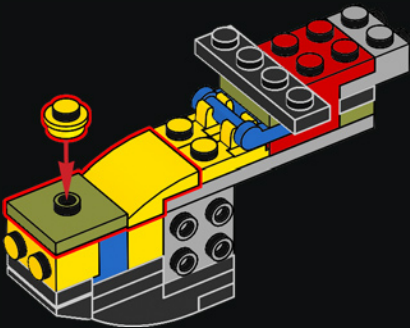


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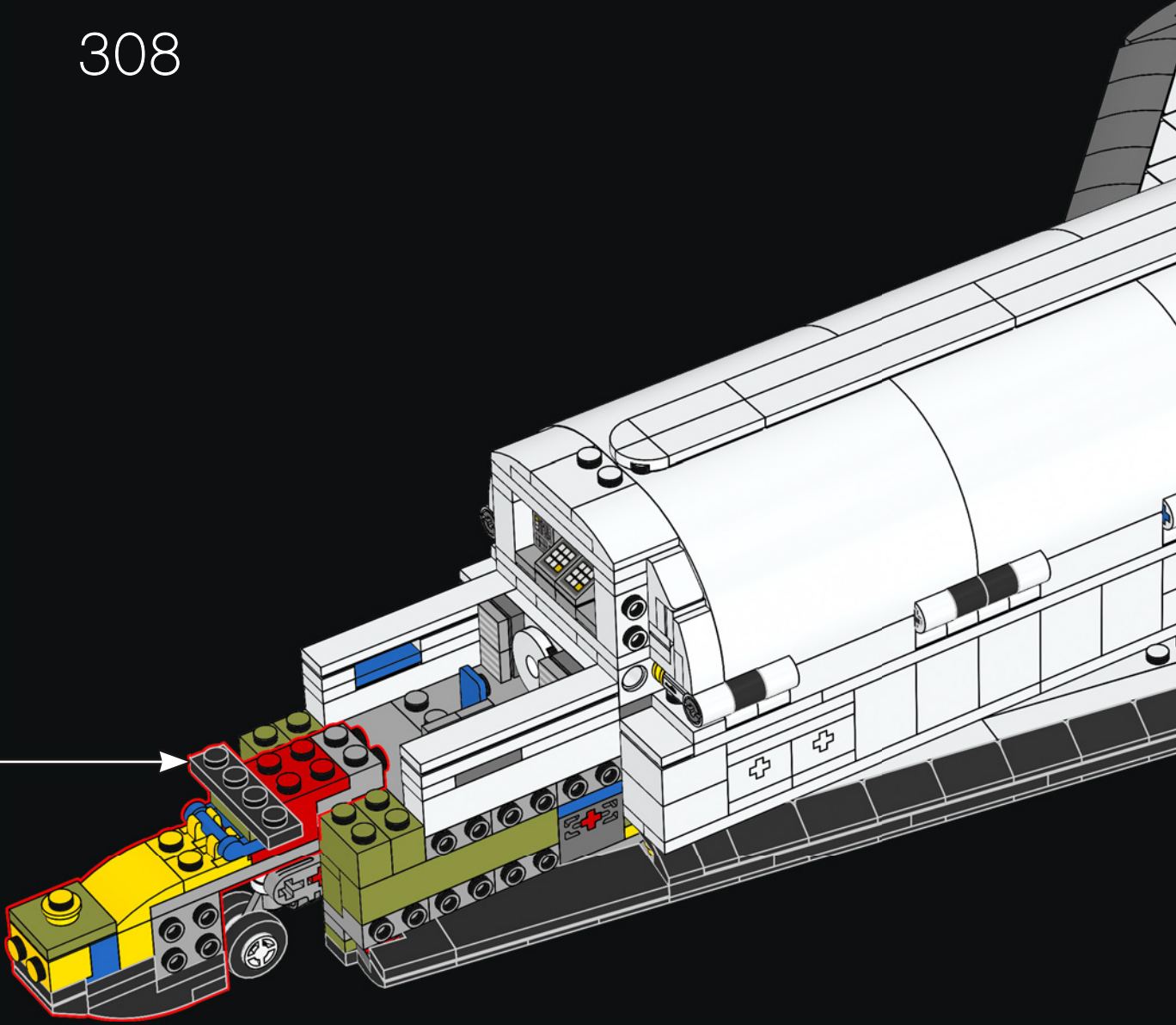


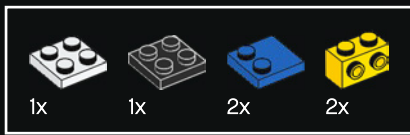


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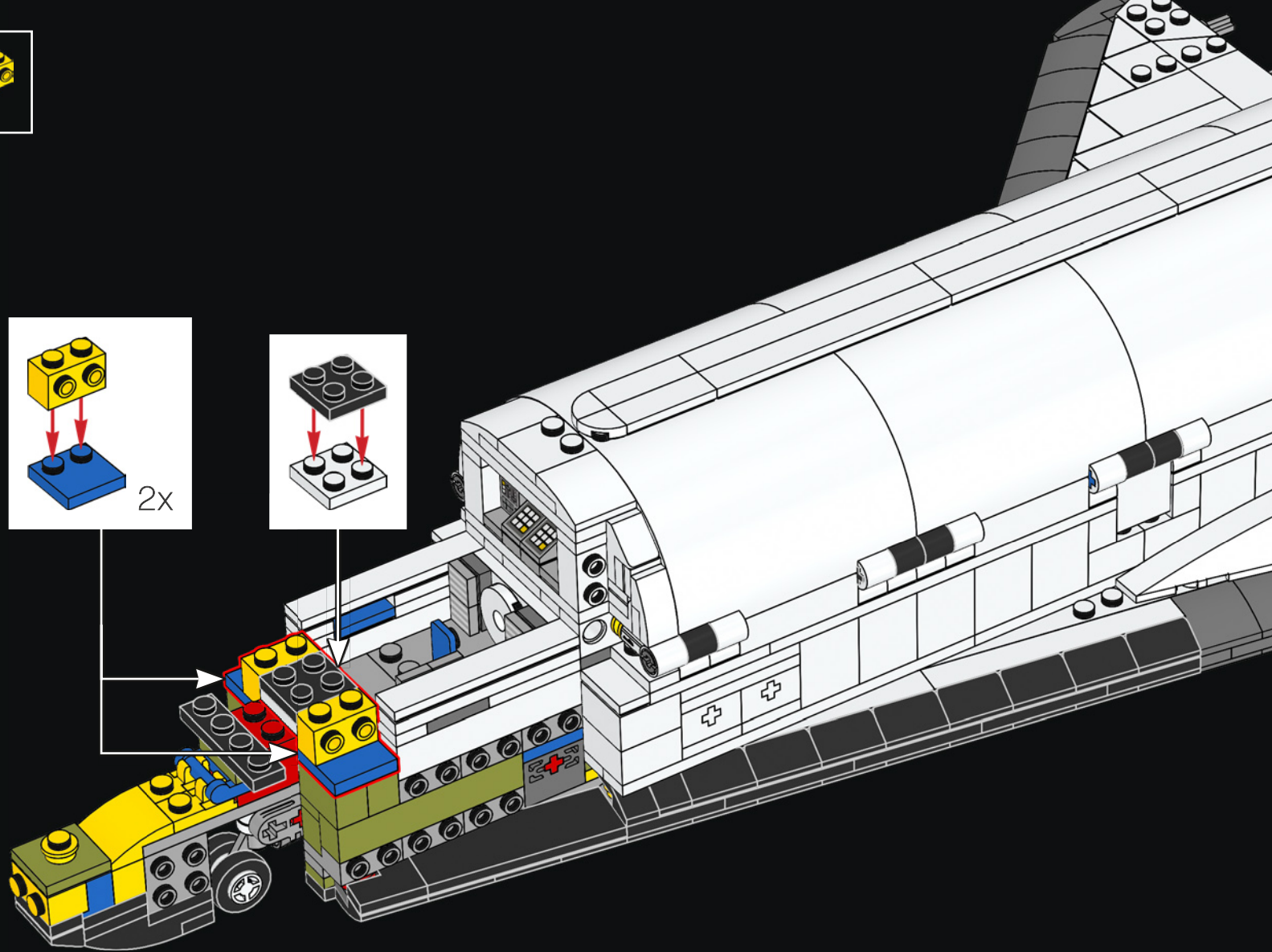
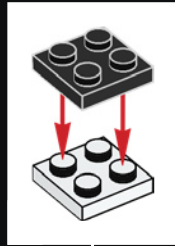
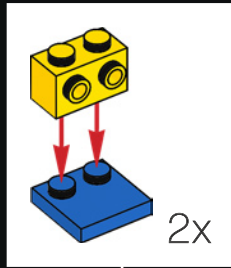


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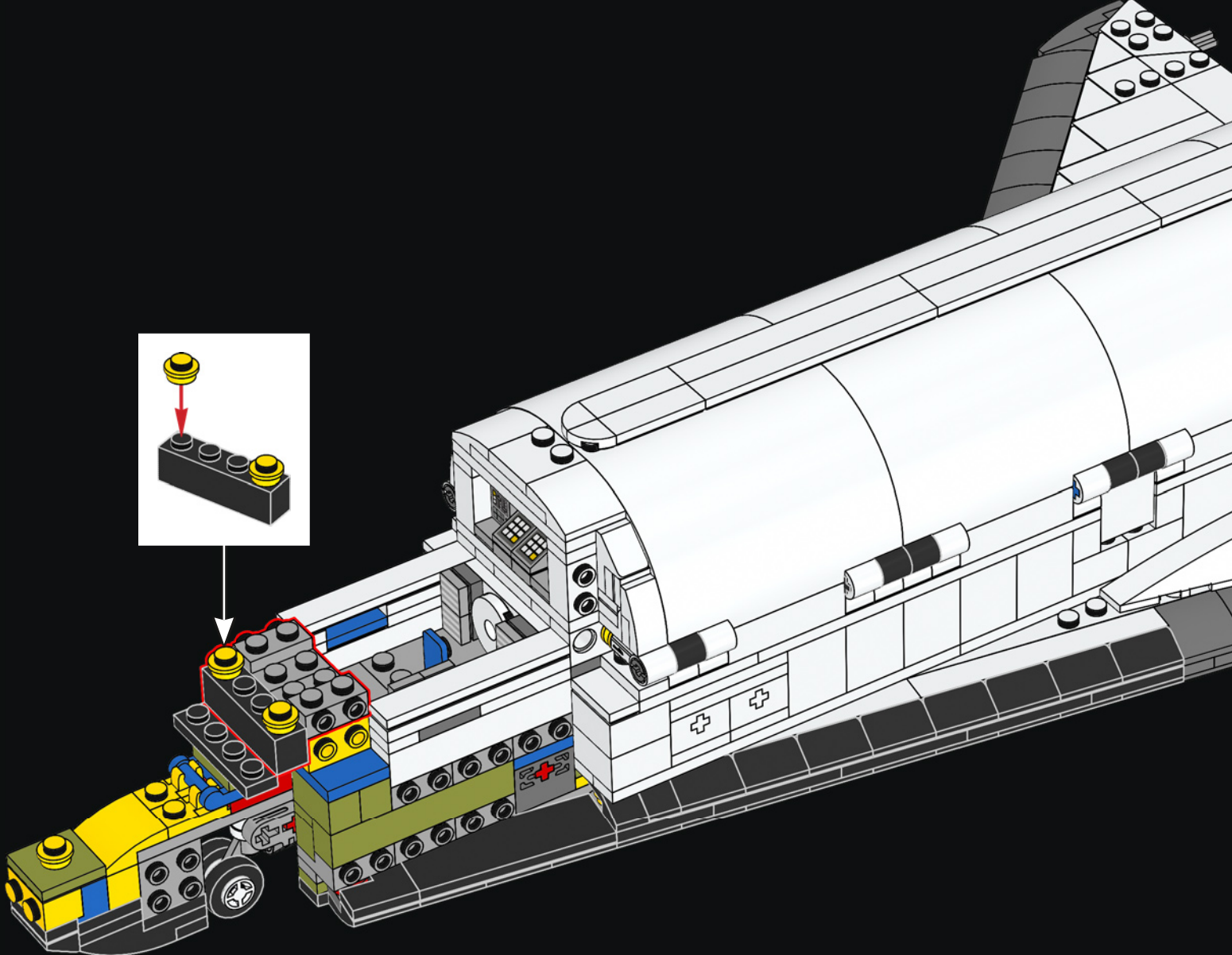
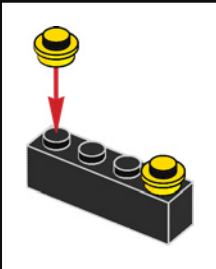


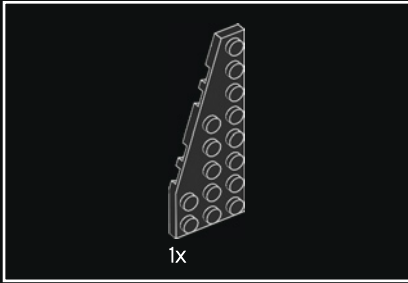
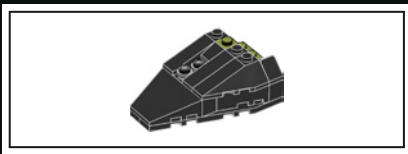
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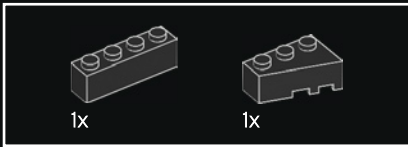
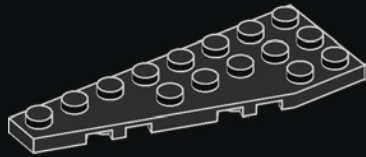


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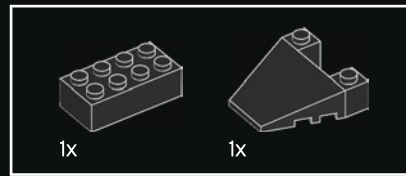
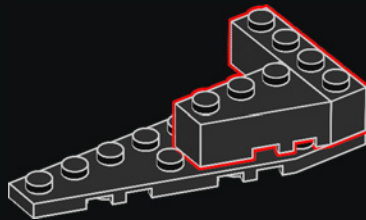




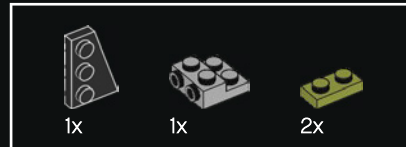
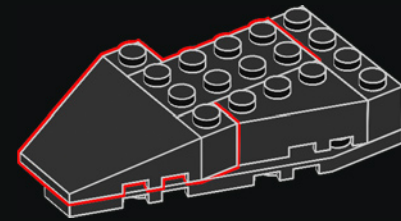
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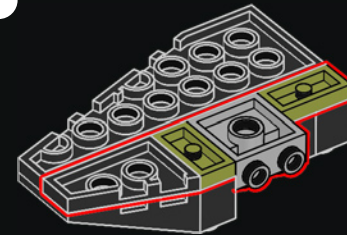
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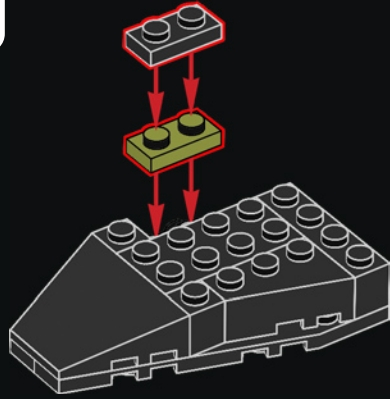


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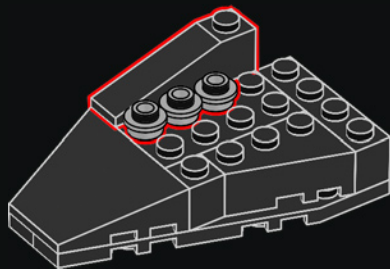




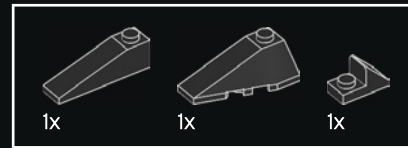
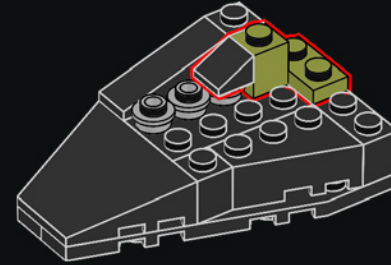
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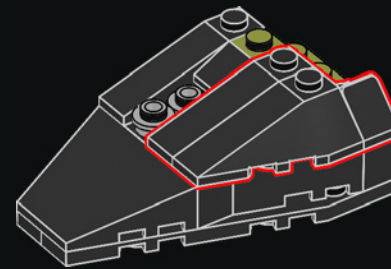
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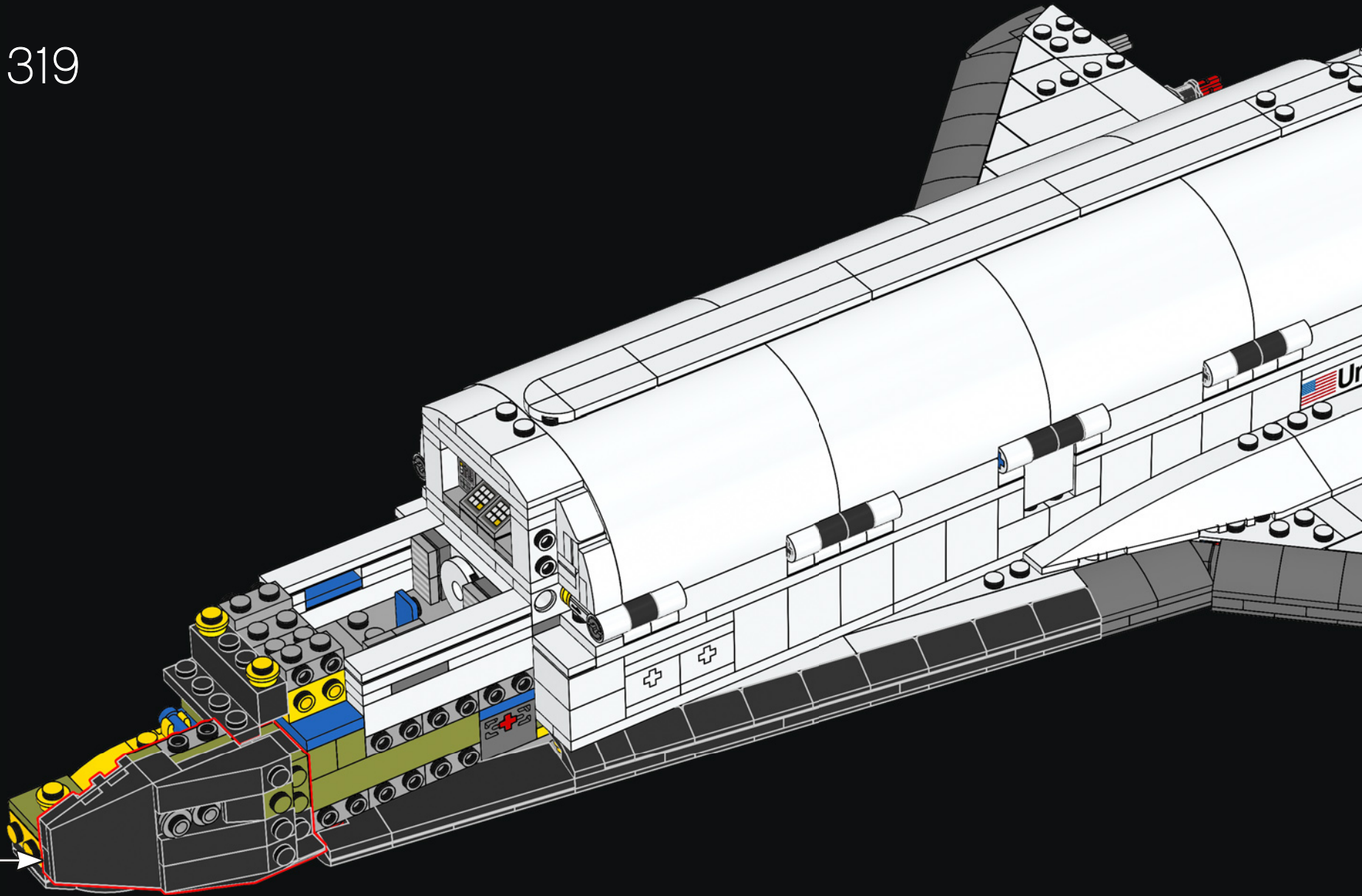
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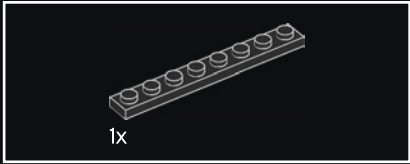
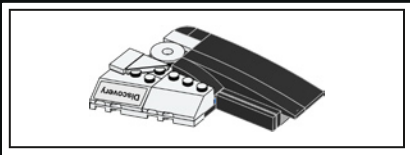


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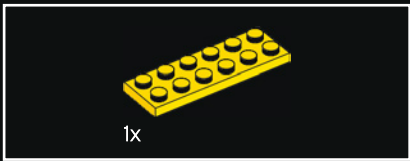
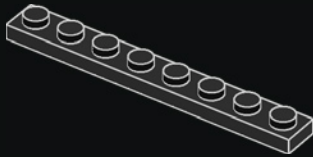


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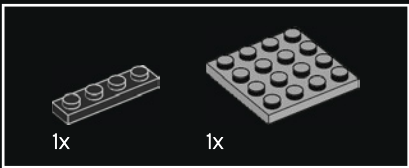
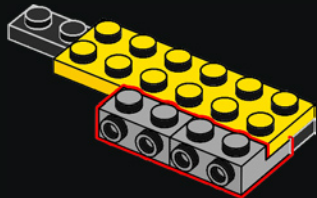
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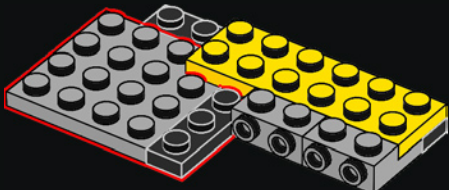
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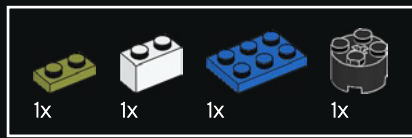


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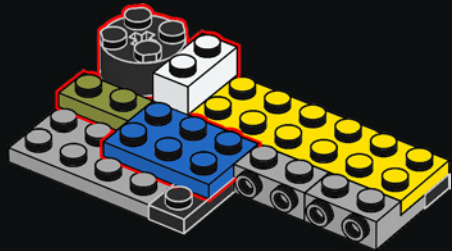


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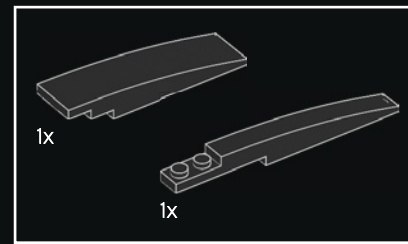
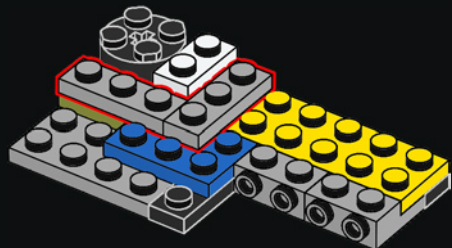




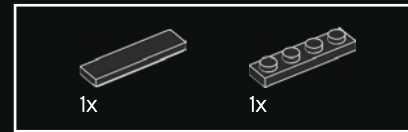
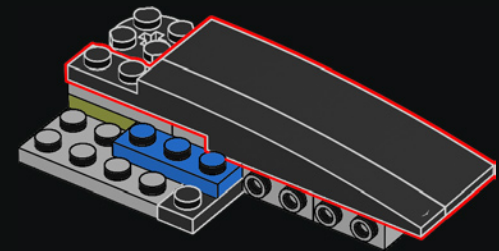
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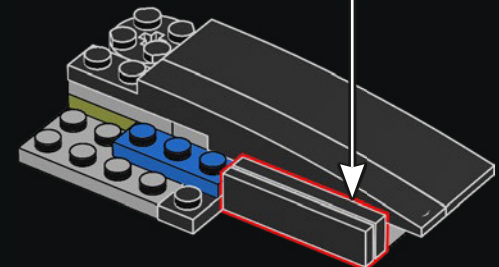
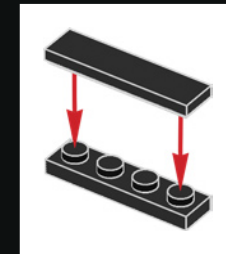
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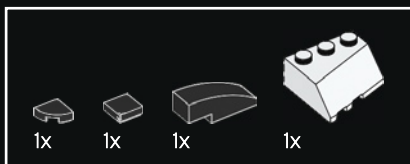
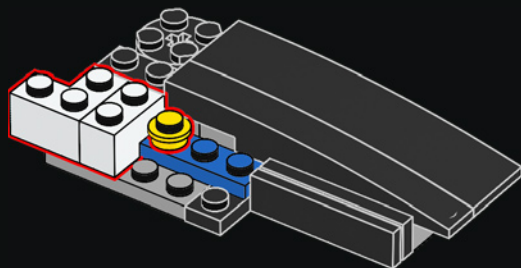


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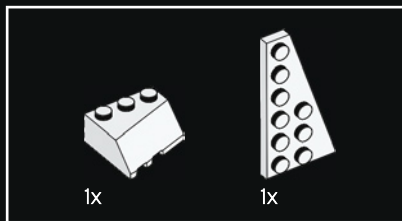
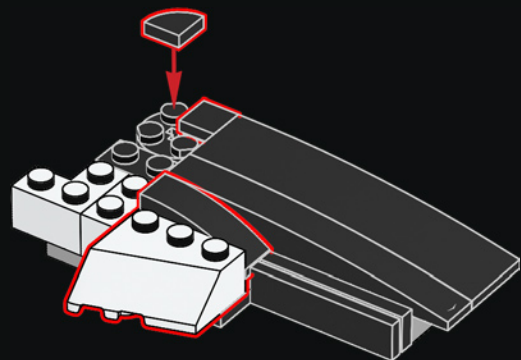




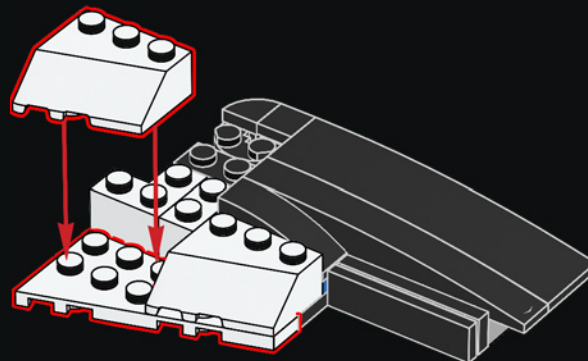
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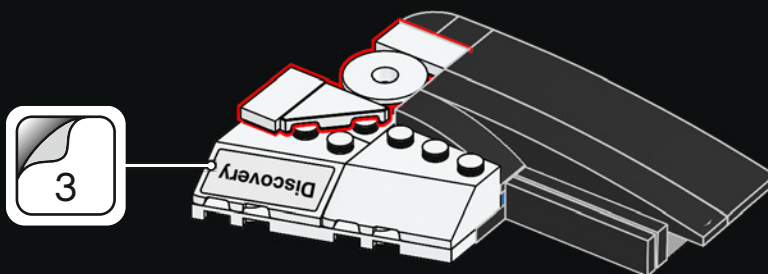
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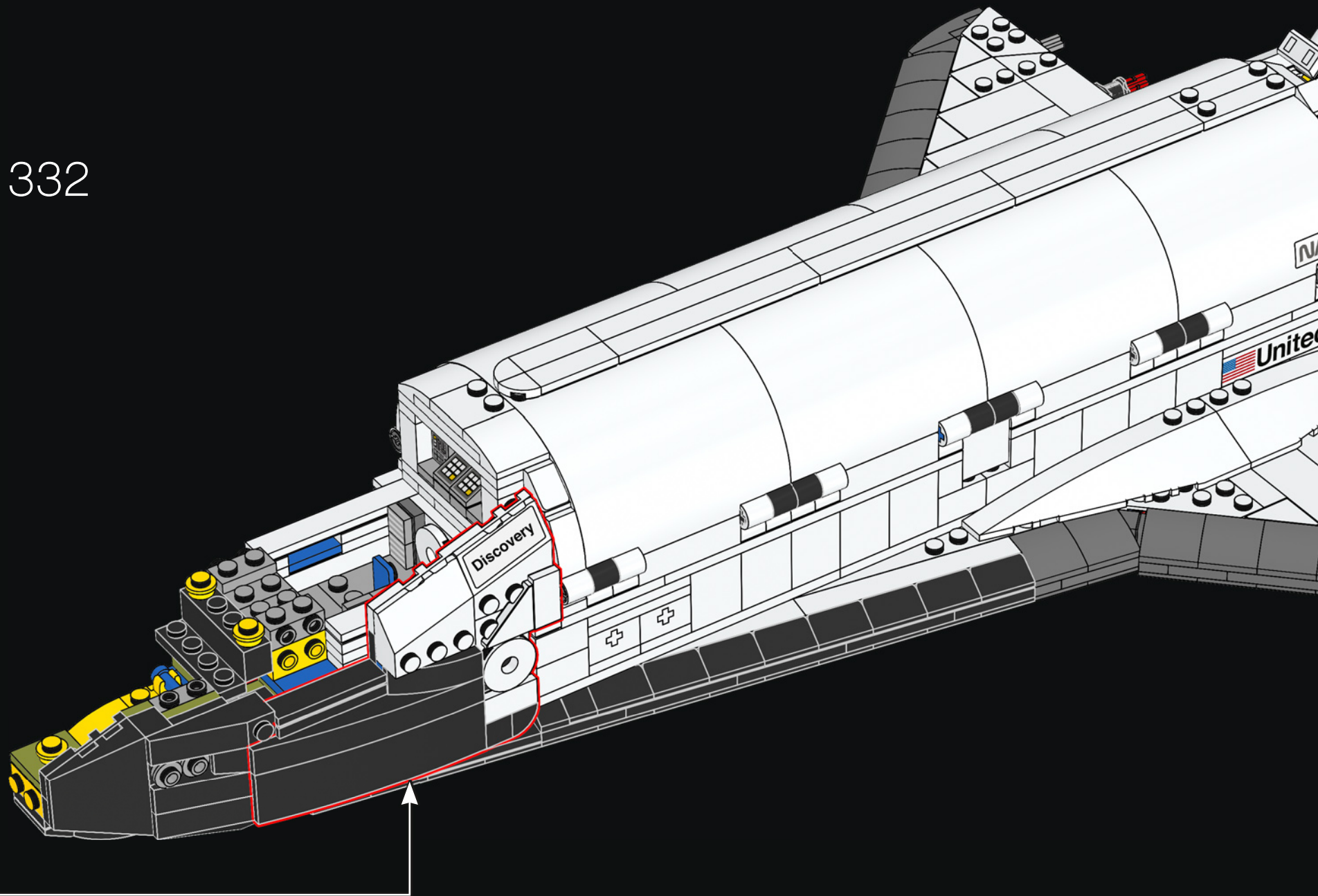
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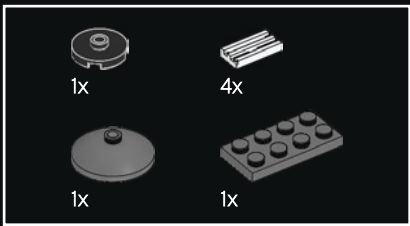


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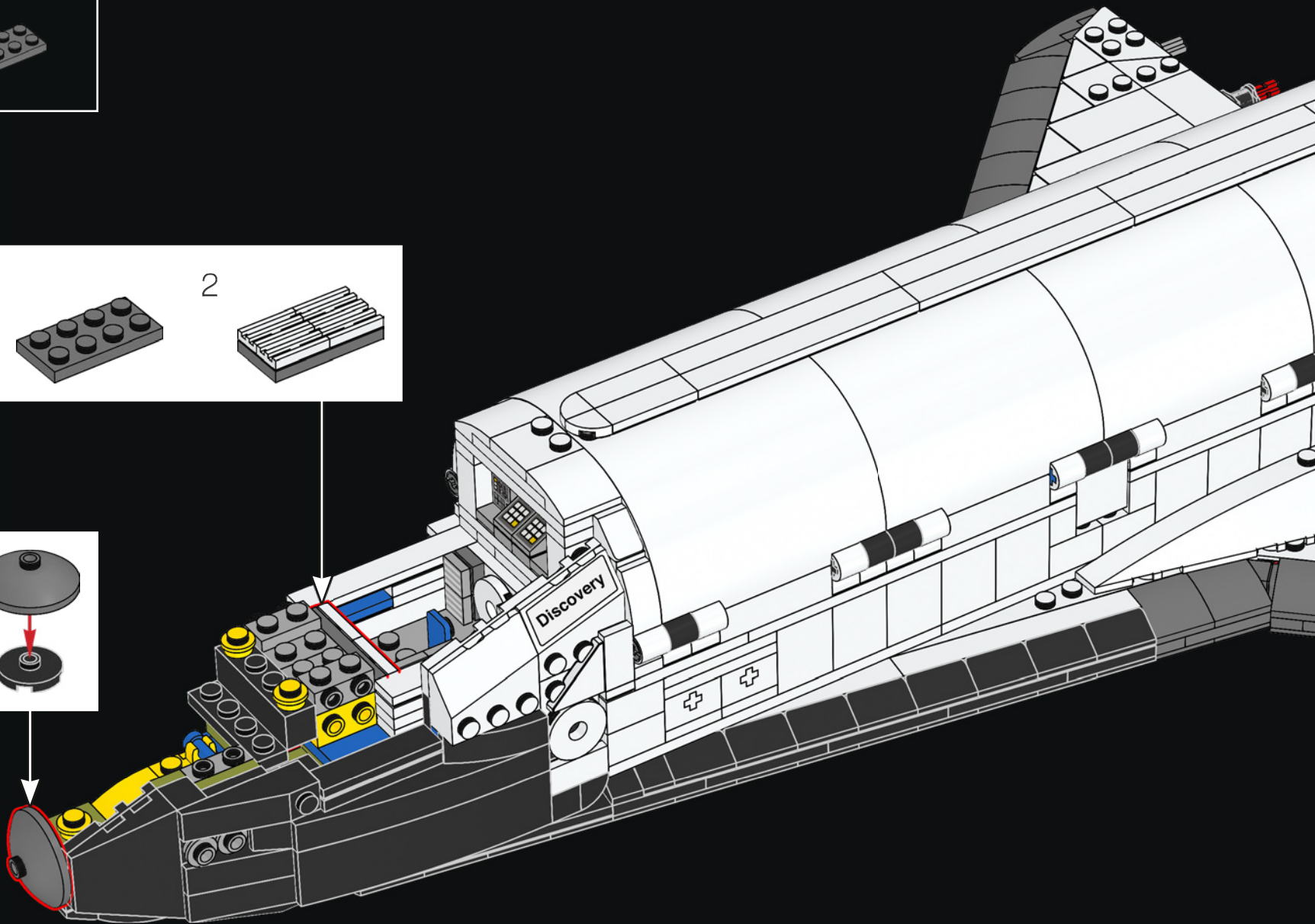
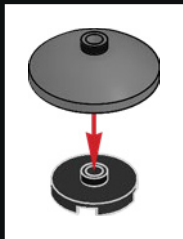
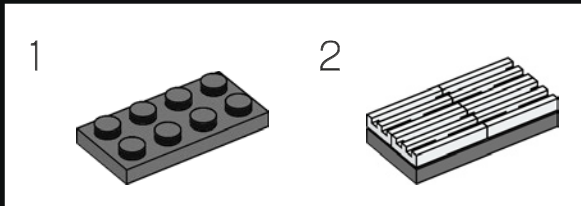


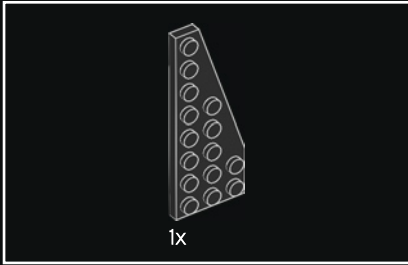
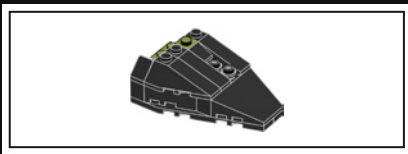
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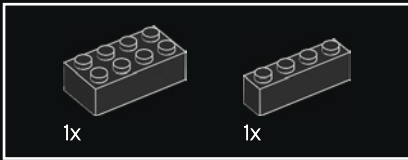
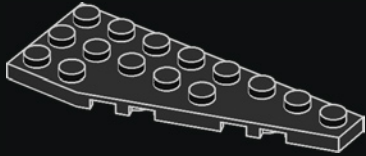


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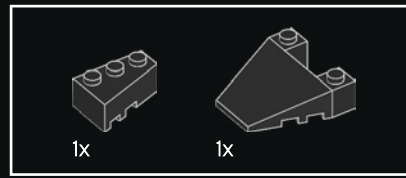
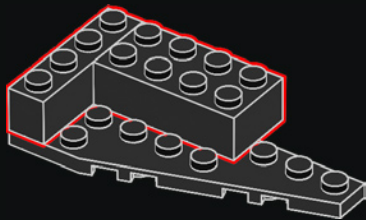




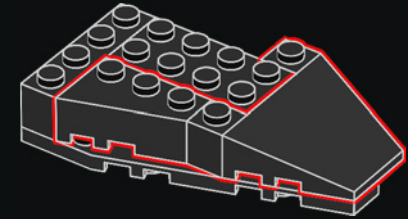
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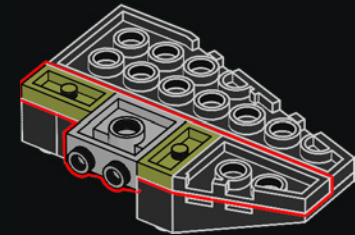
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336

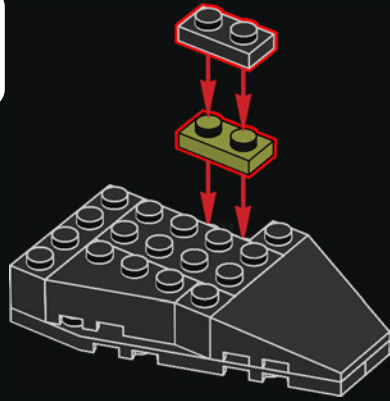


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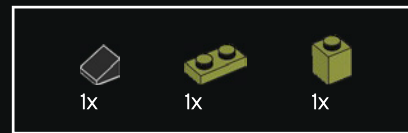
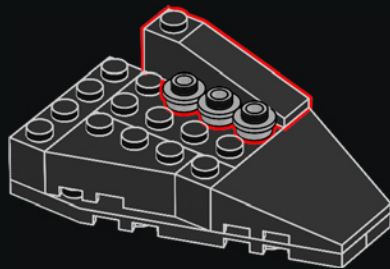




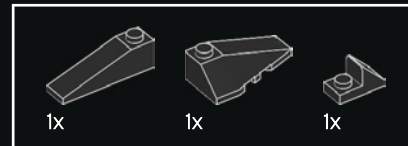
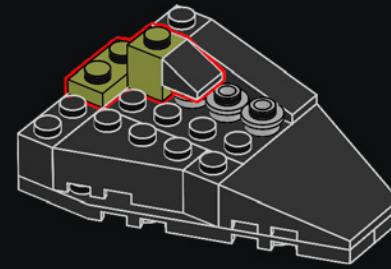
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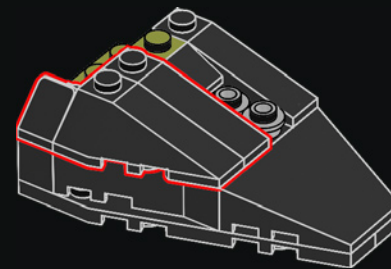
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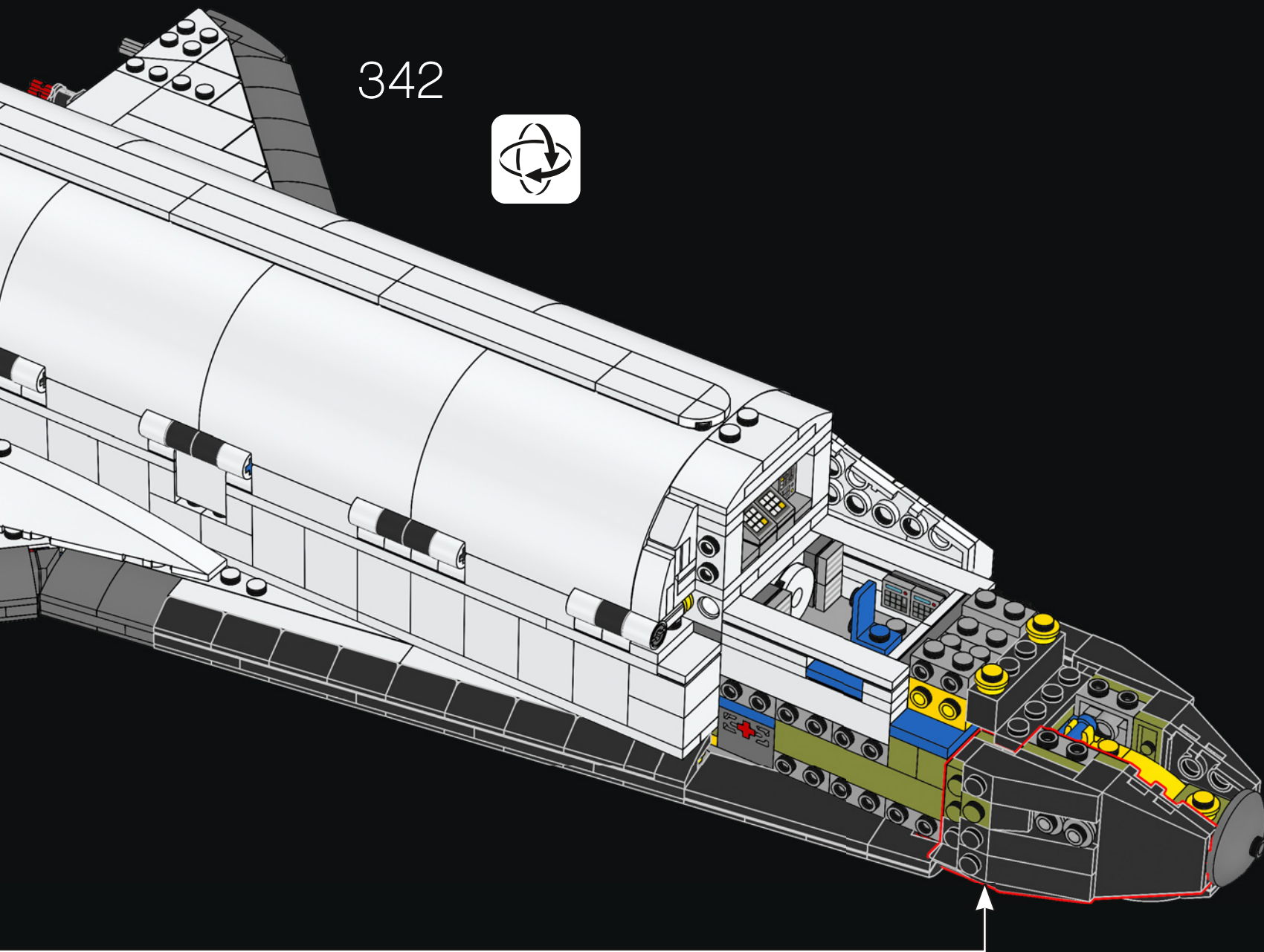
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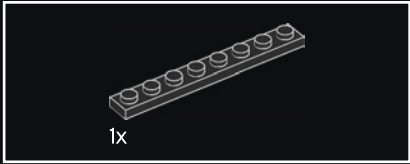
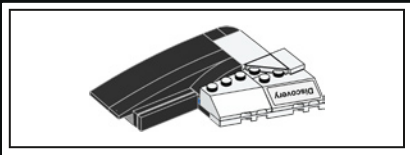


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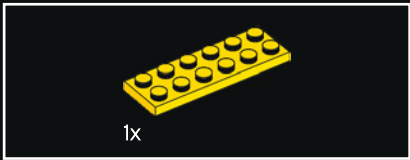
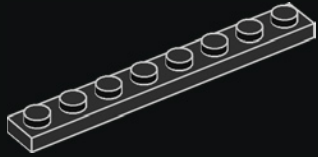


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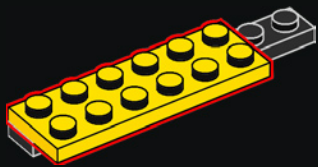




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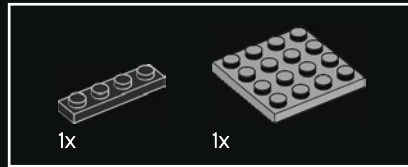
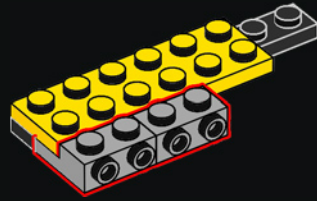


344



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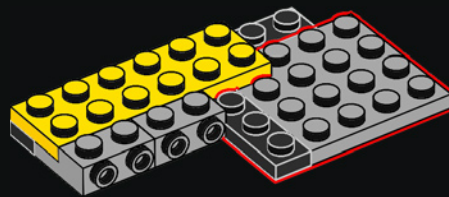
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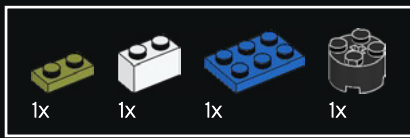


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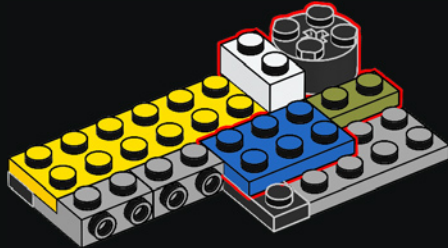
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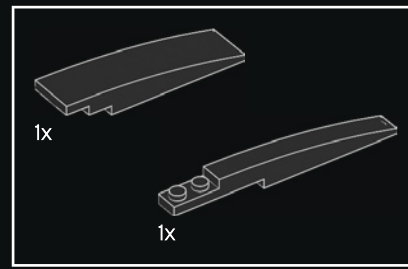
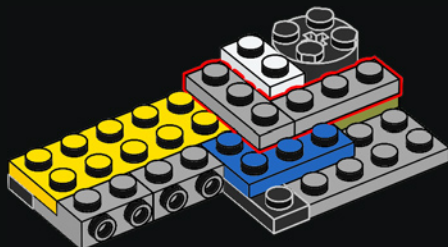




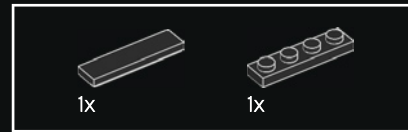
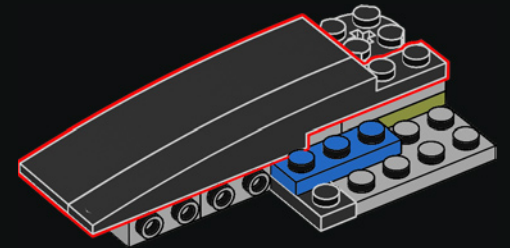
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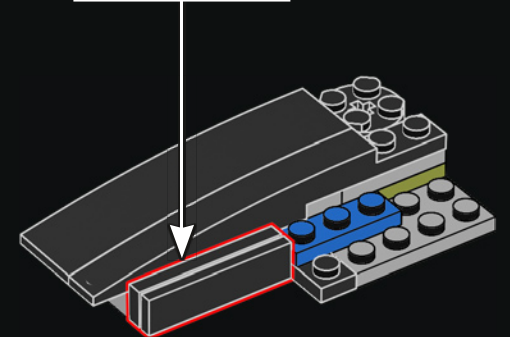
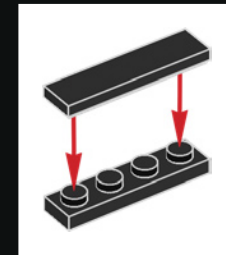
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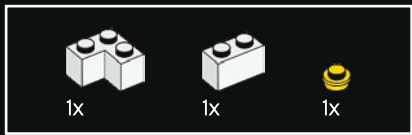


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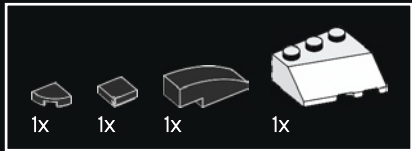
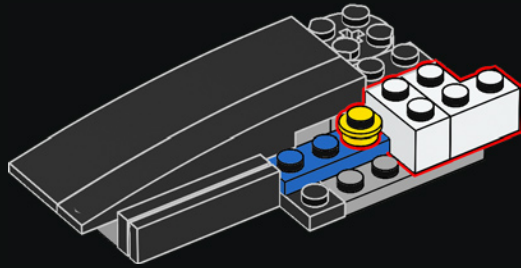


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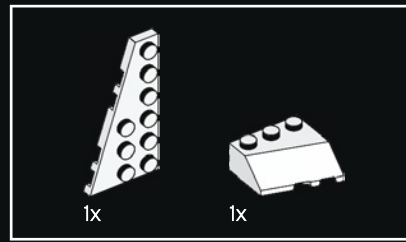
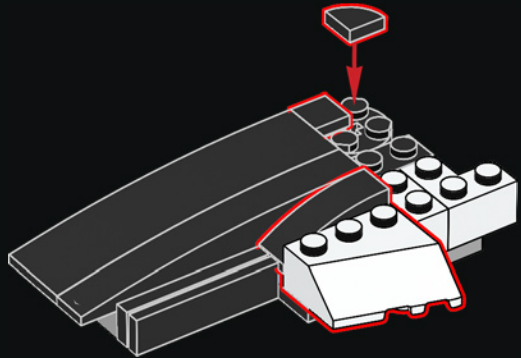




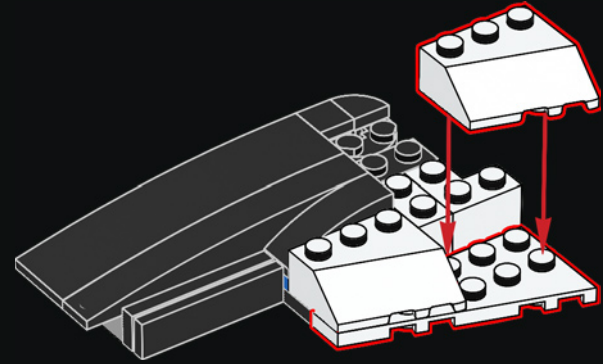
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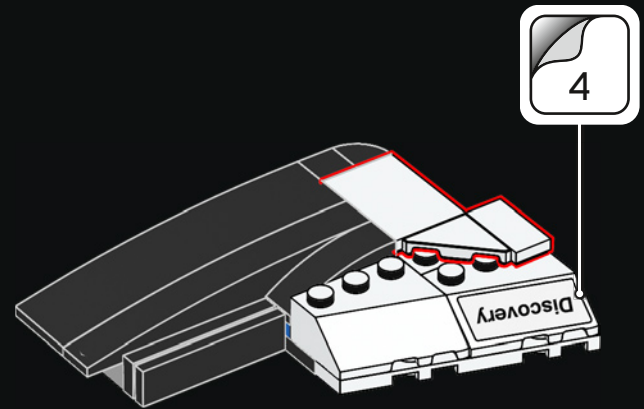
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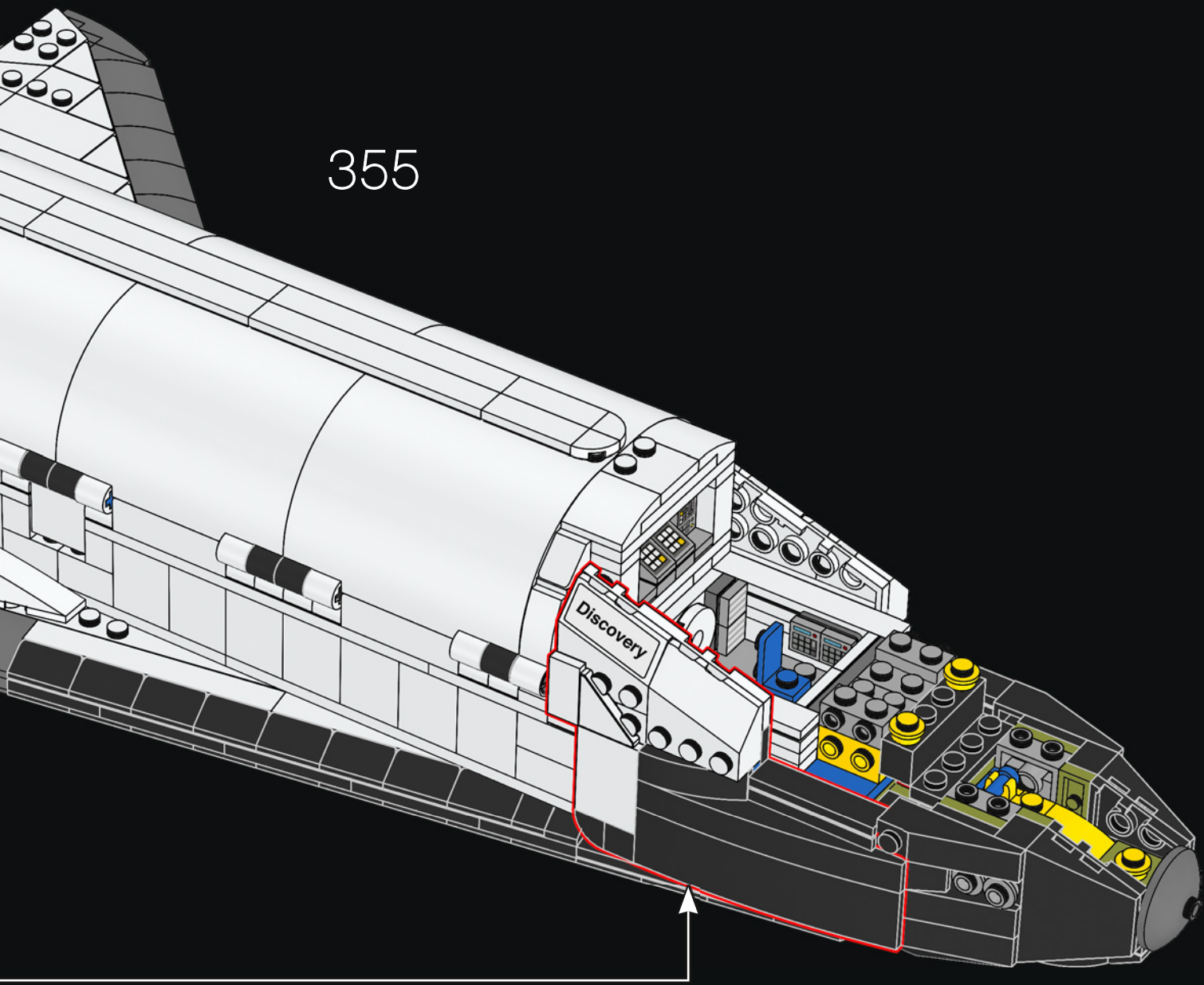
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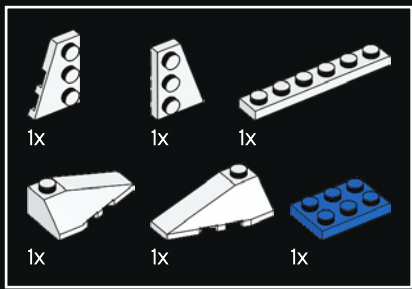


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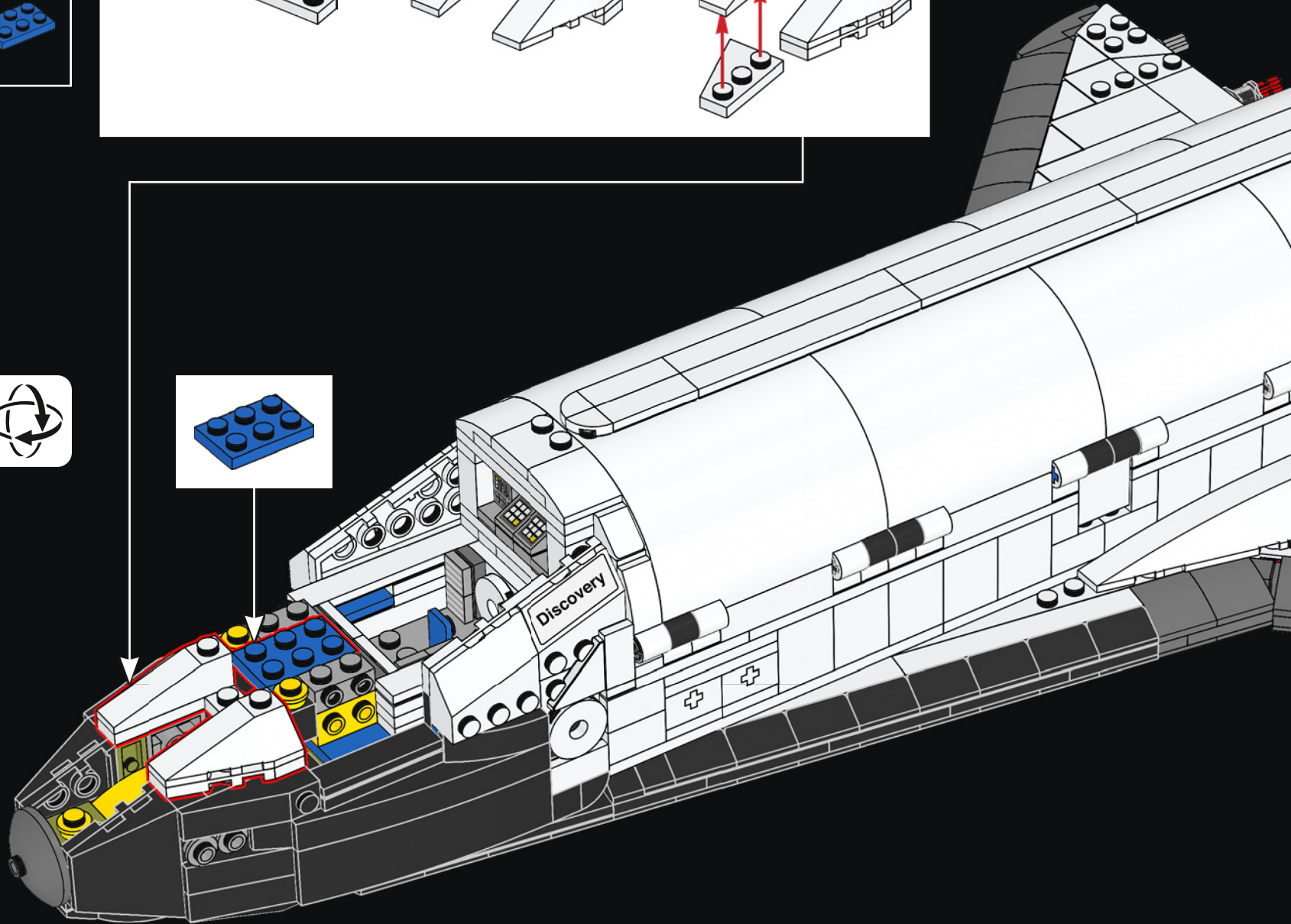
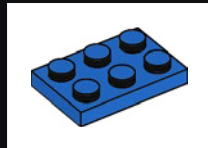
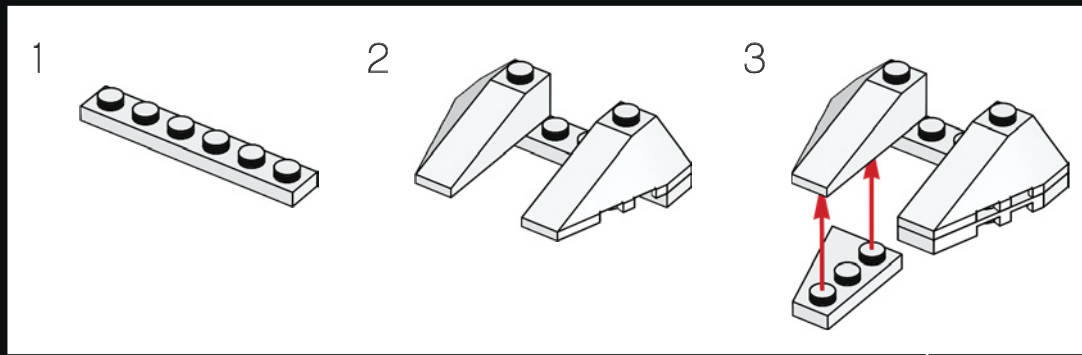


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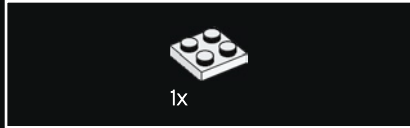
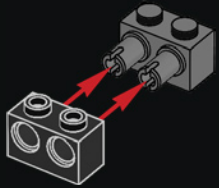


356





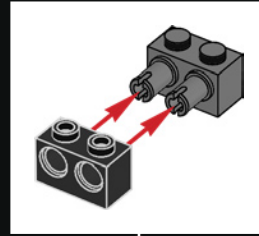
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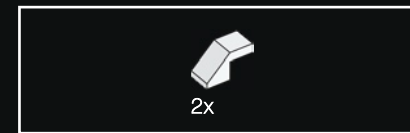
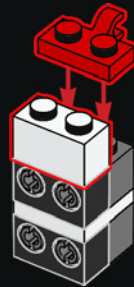
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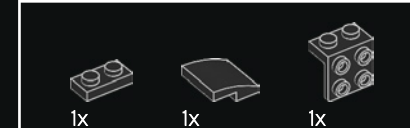
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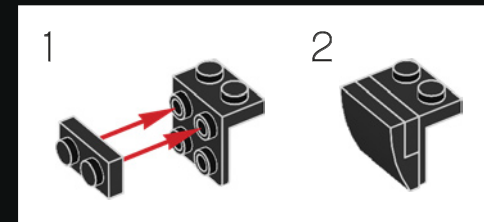
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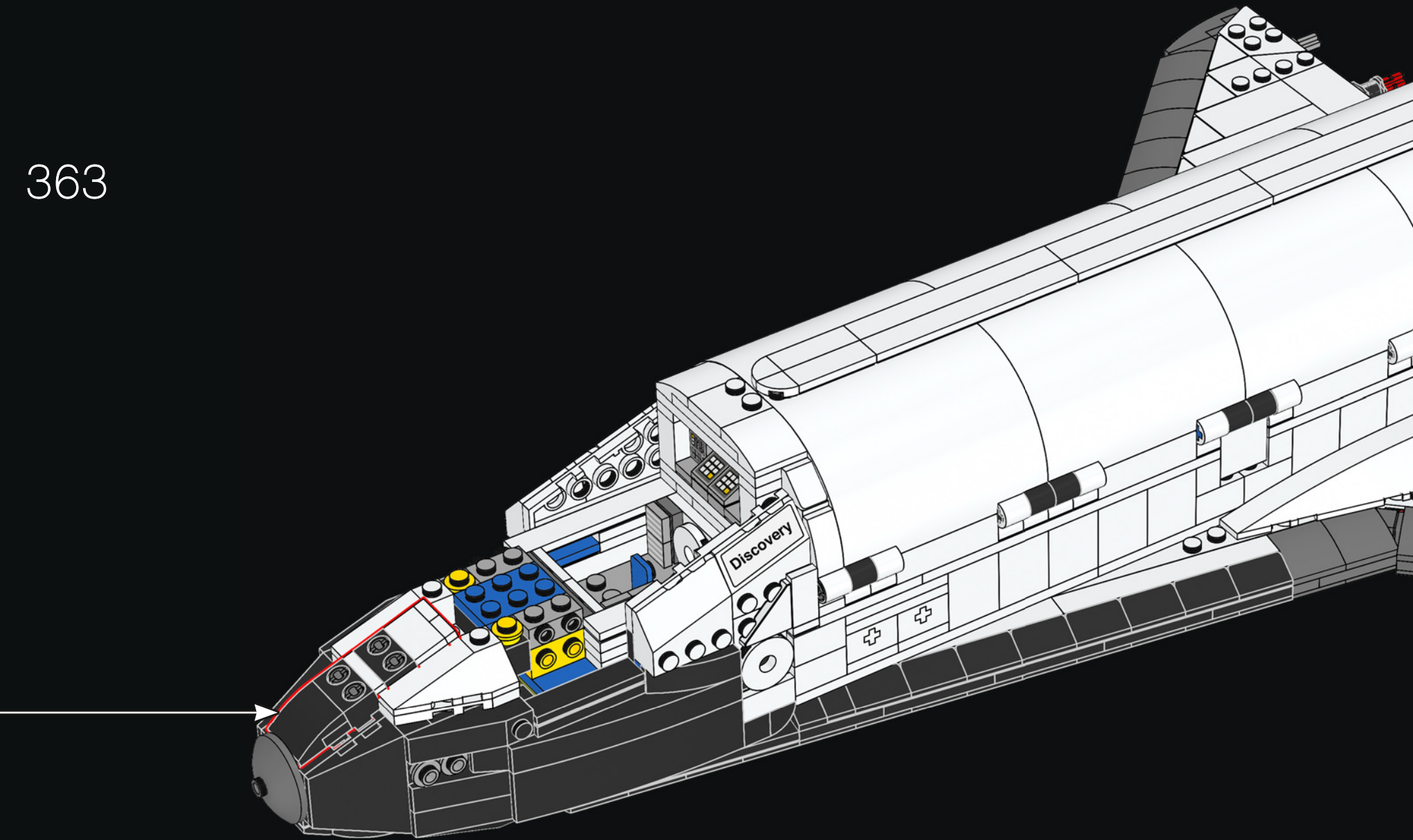
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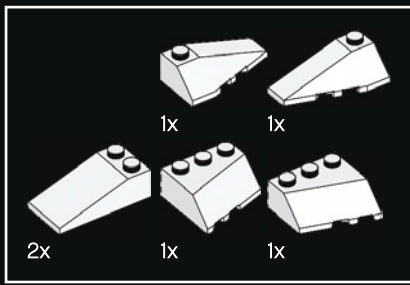


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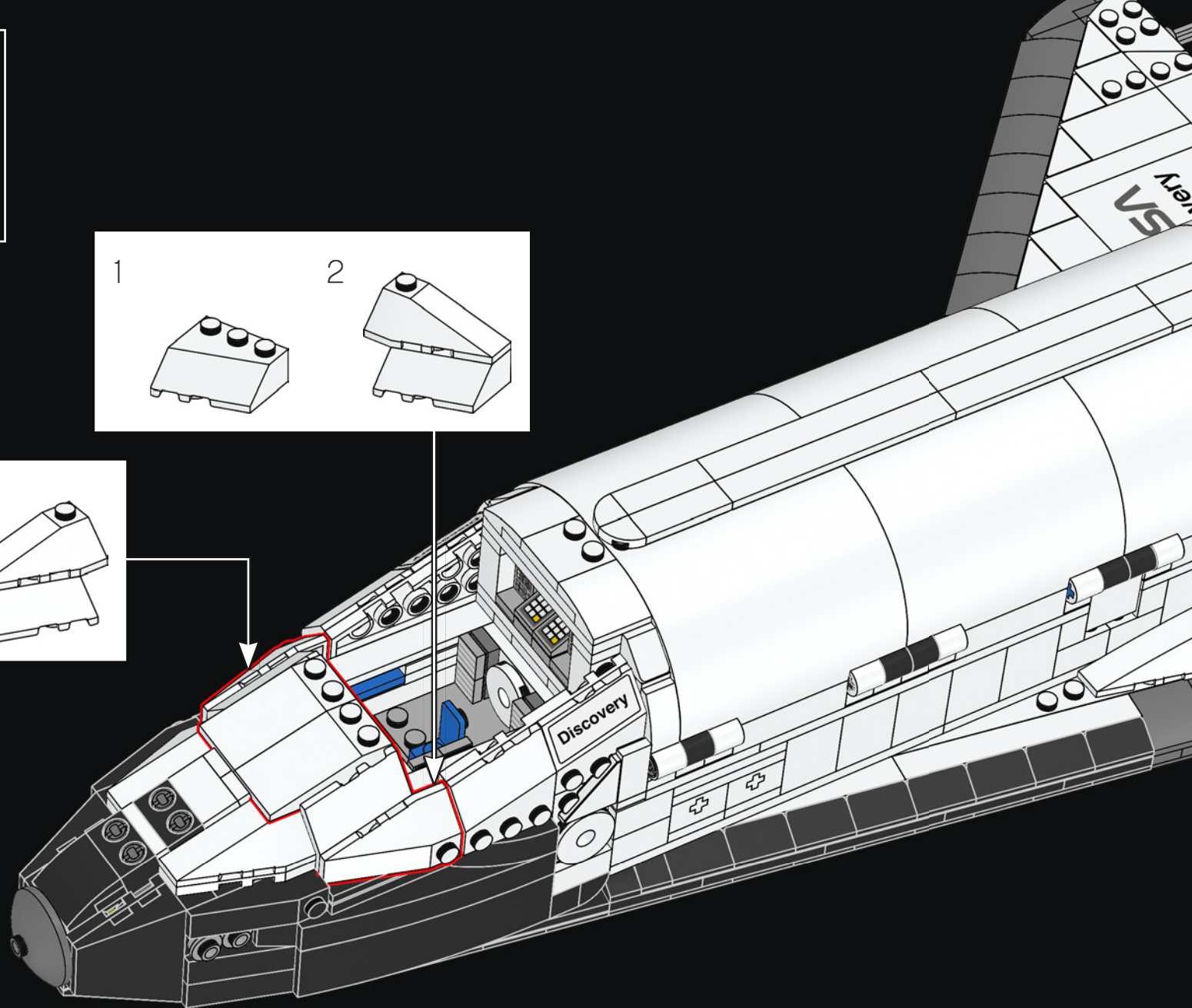
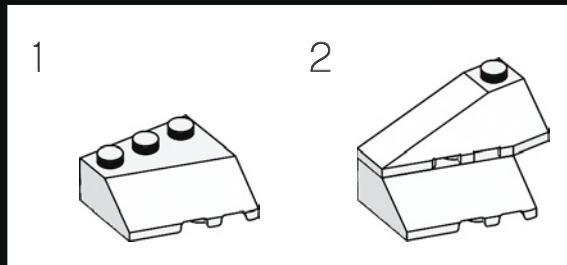
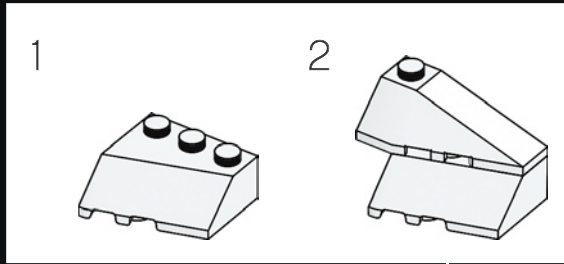


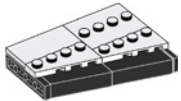
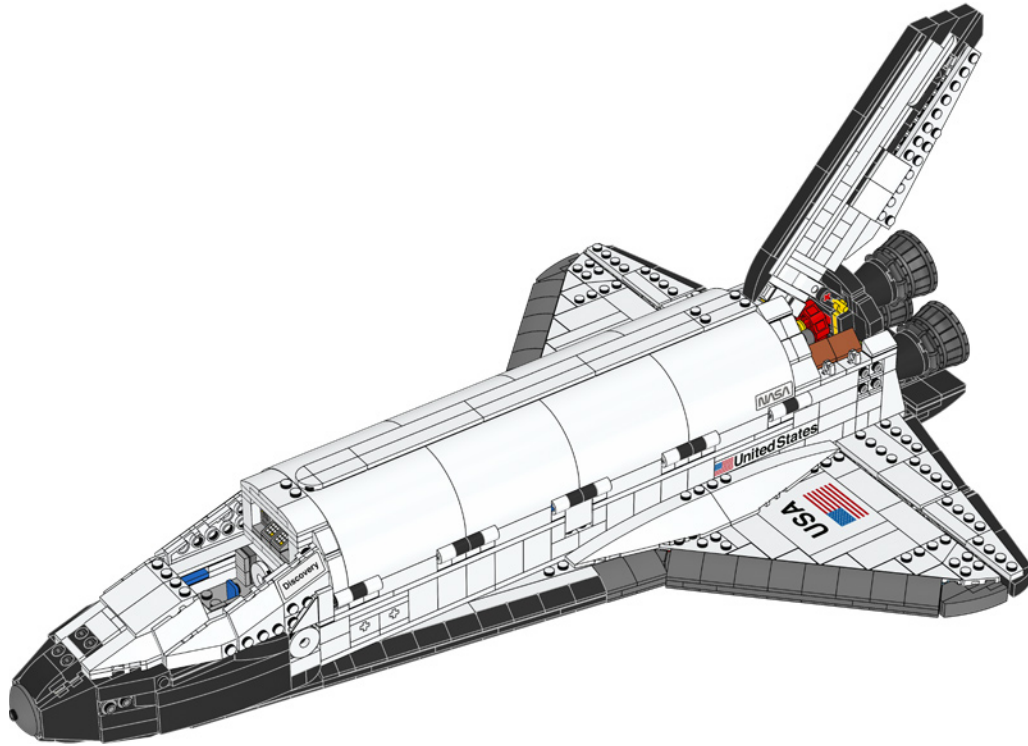
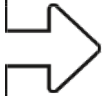
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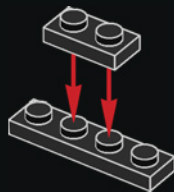


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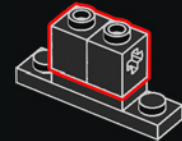
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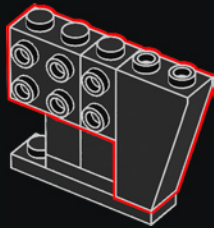
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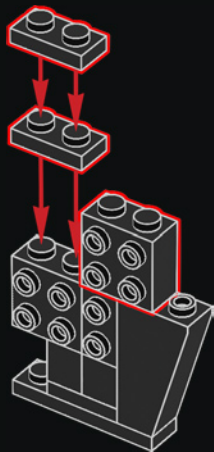




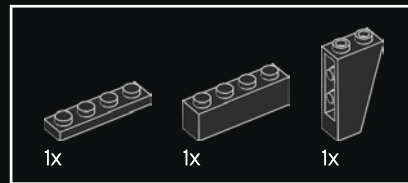
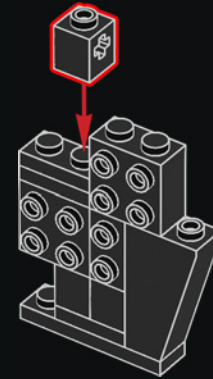
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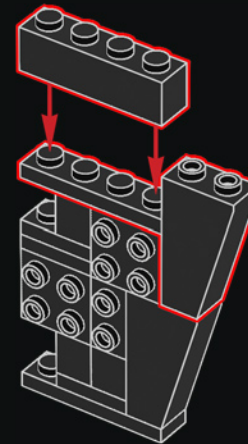
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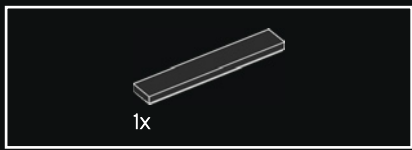


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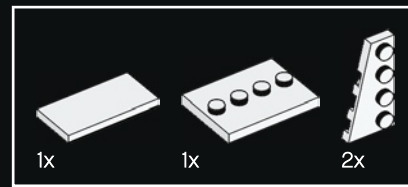
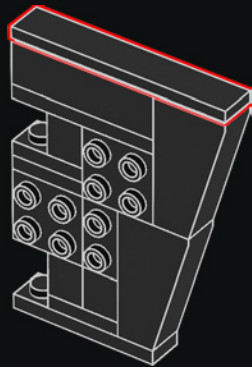


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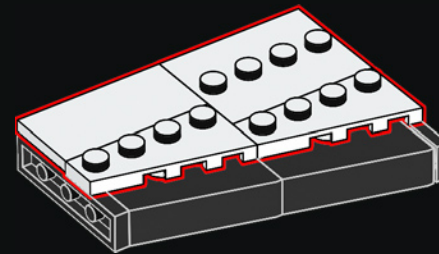




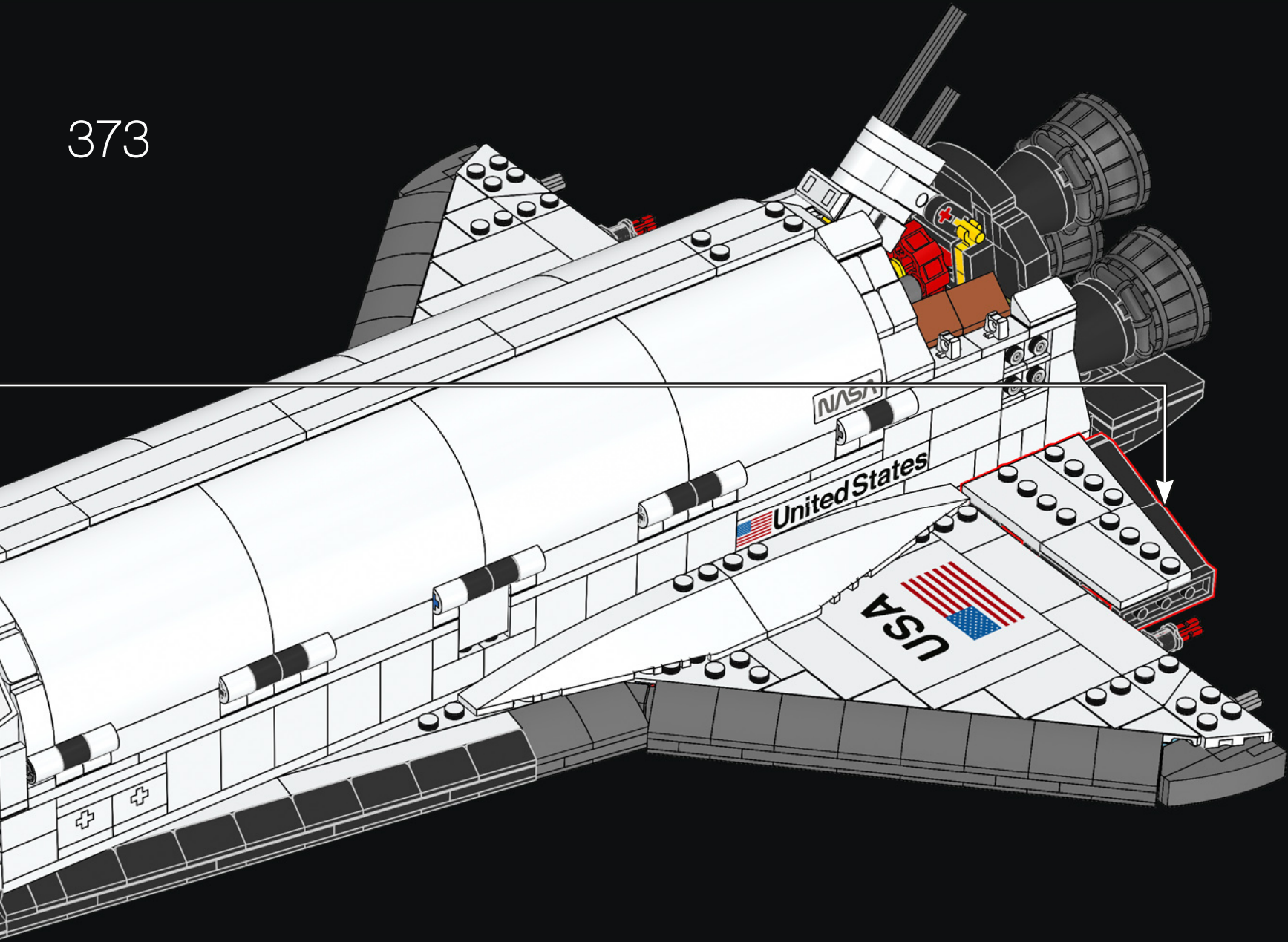
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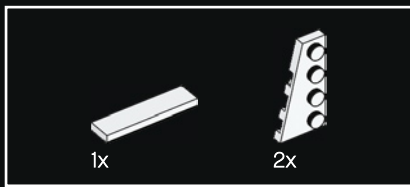


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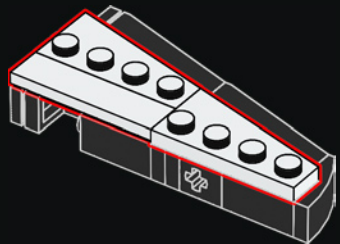


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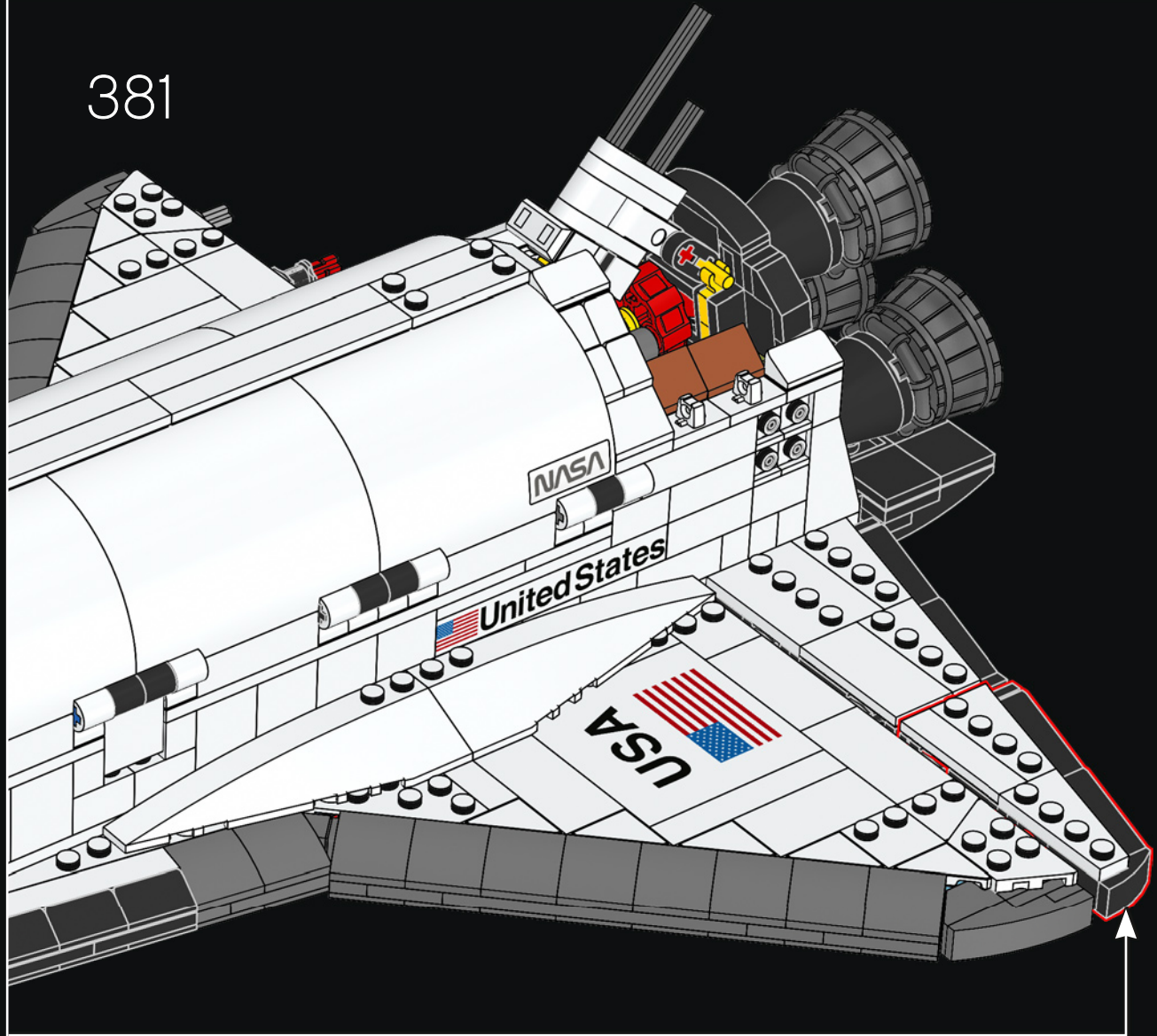


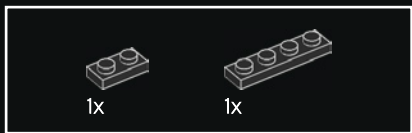


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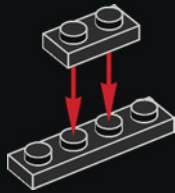


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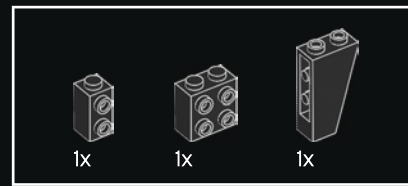
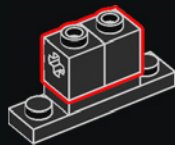




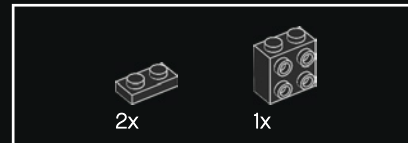
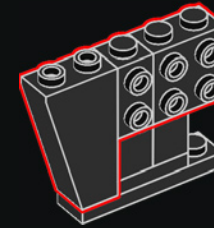
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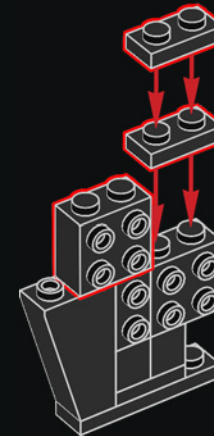
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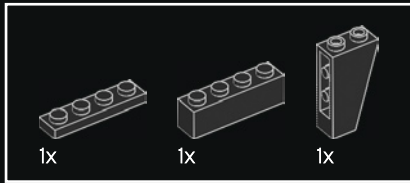
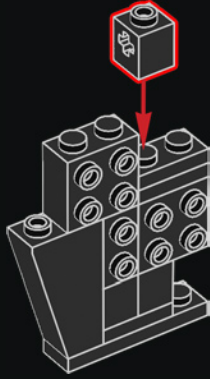


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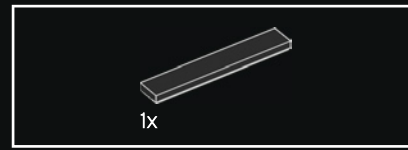
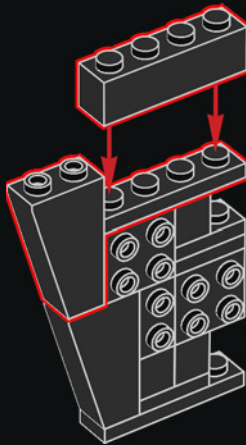




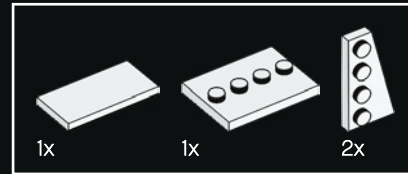
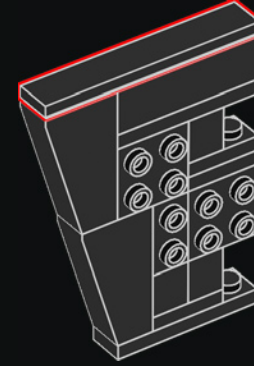
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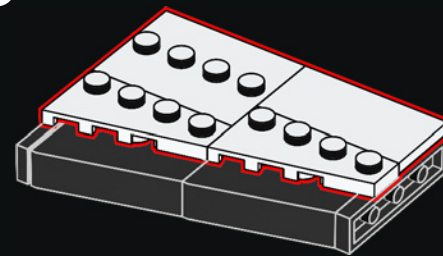
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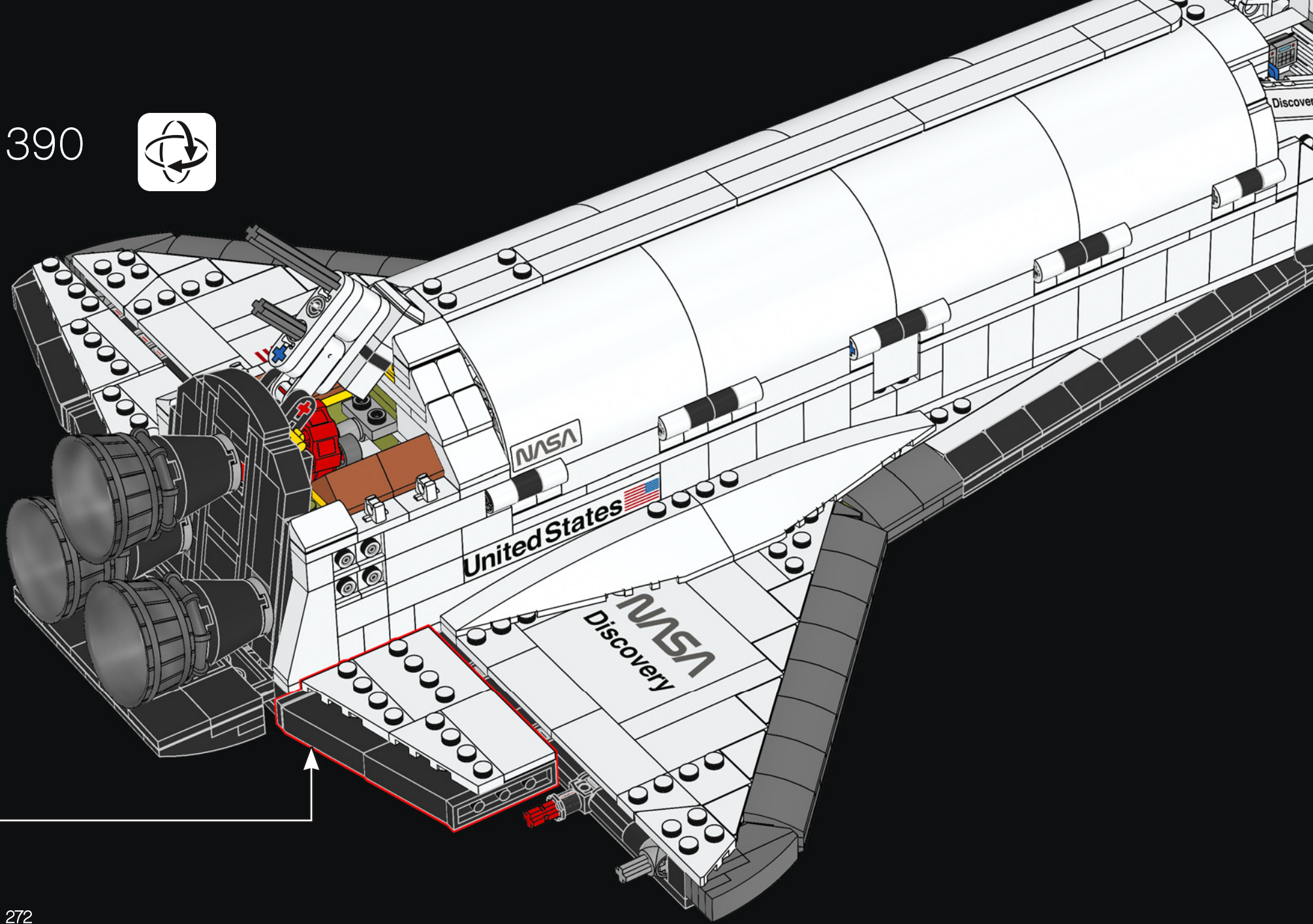
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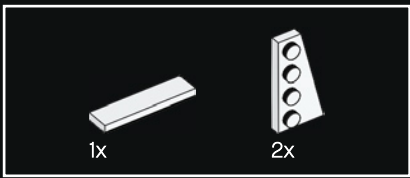


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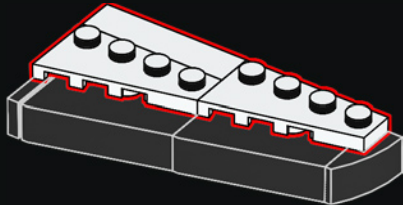


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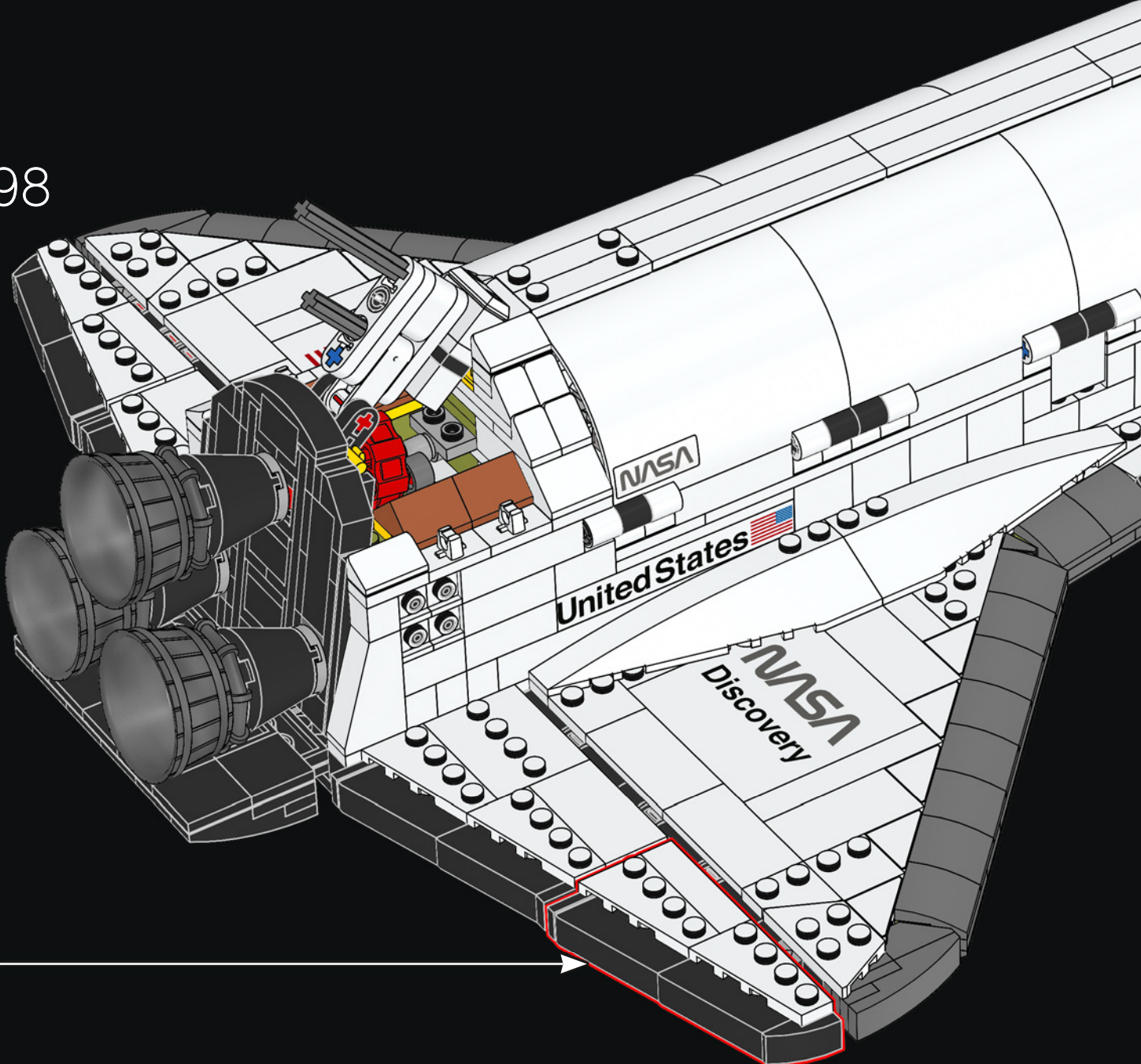


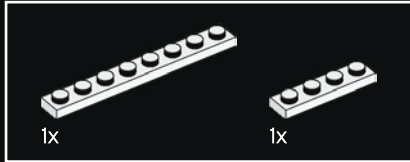
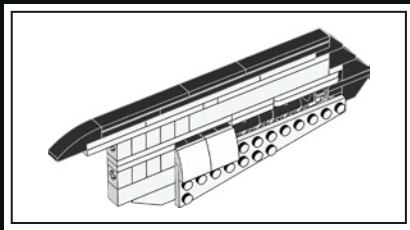


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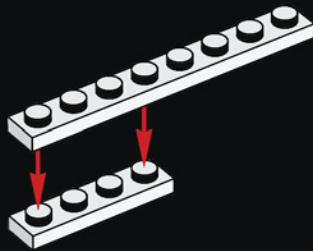


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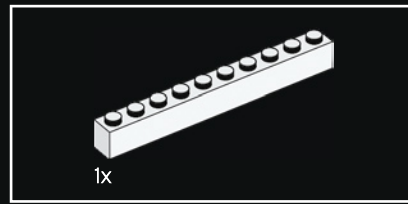
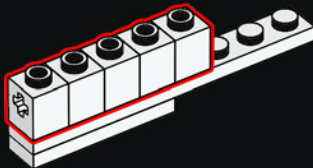




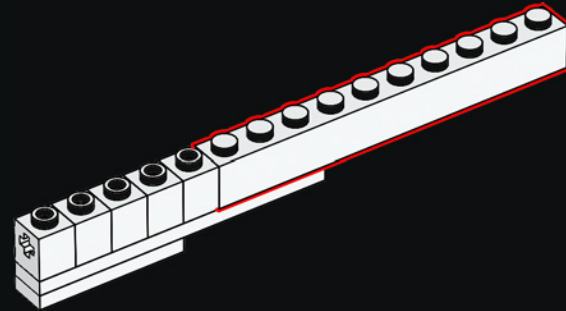
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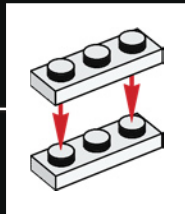
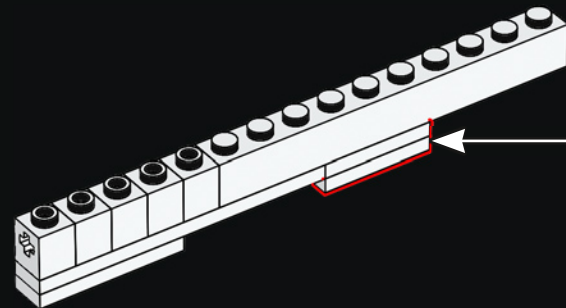
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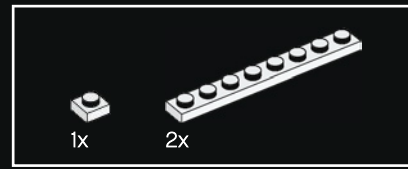
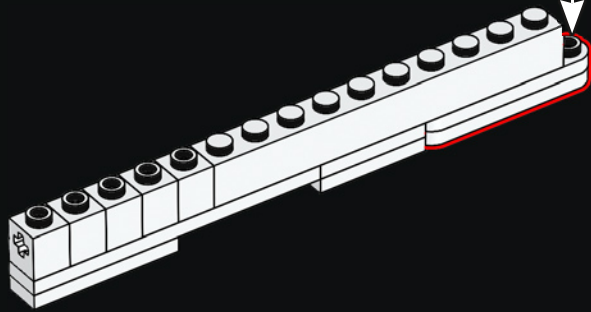
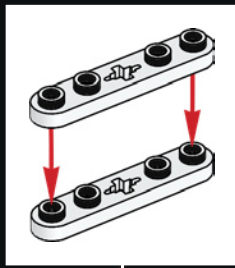


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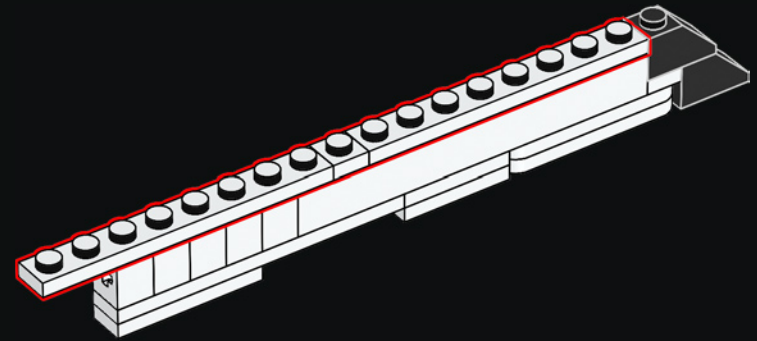




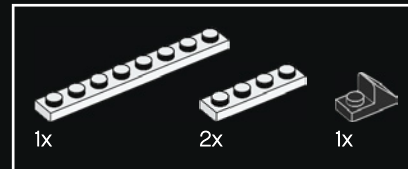
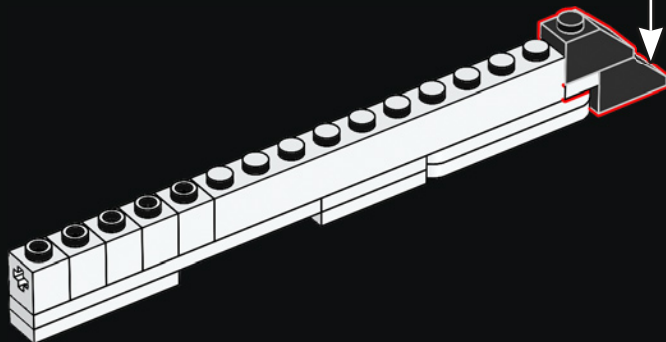
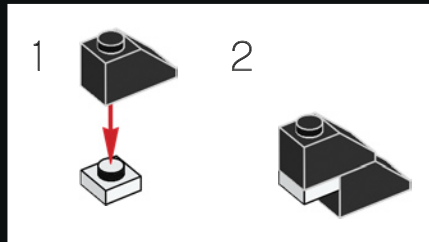
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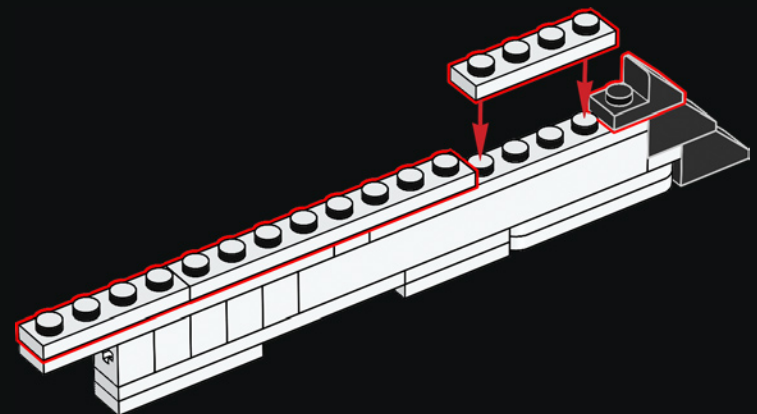
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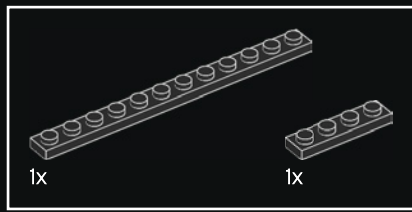


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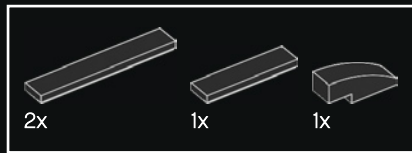
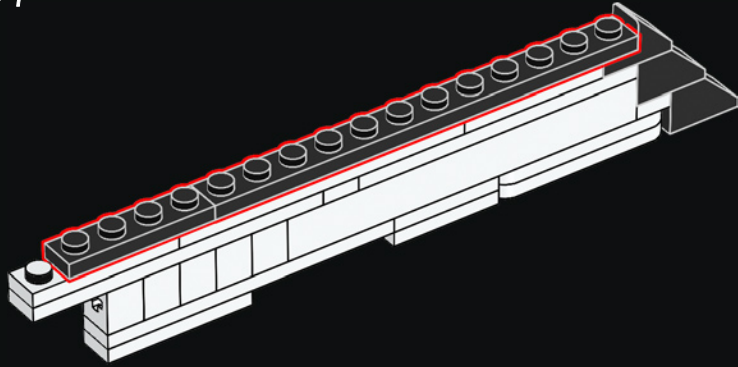


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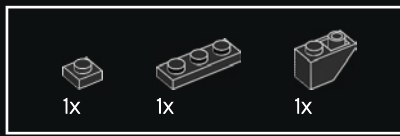
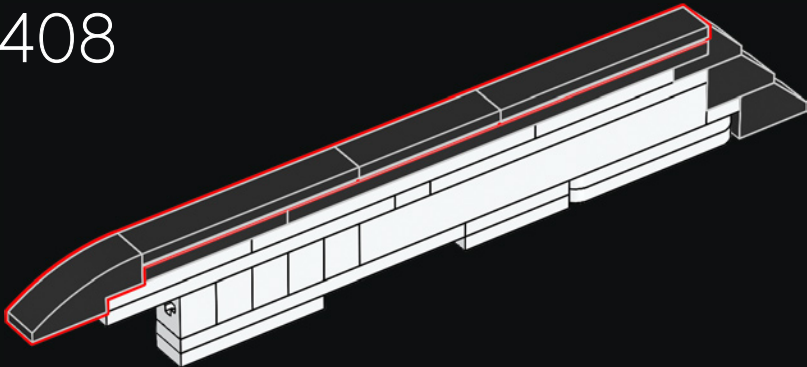




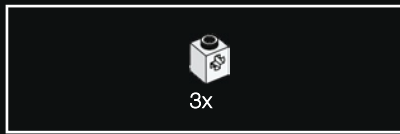
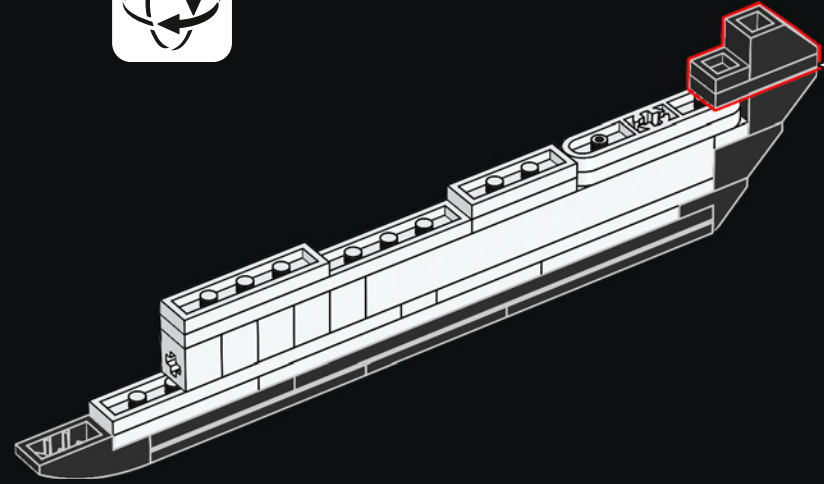
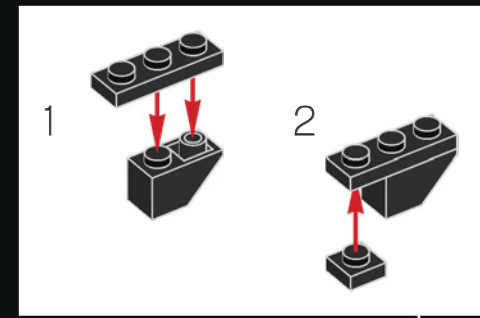
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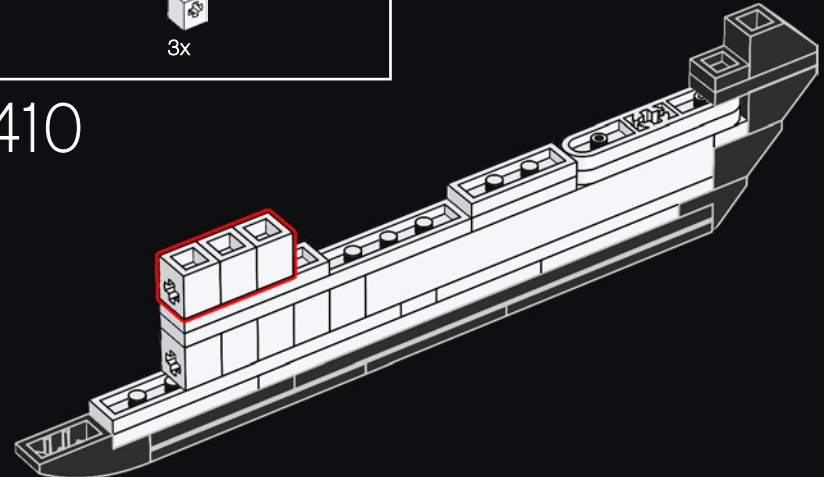
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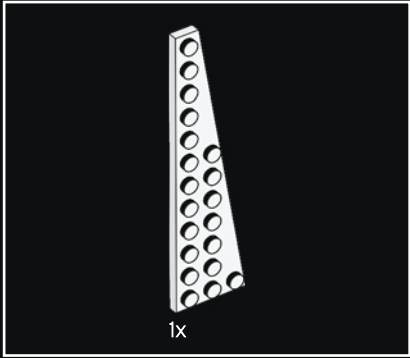
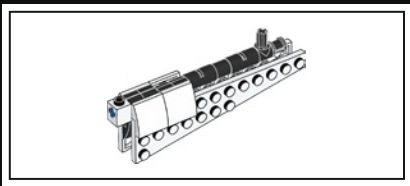


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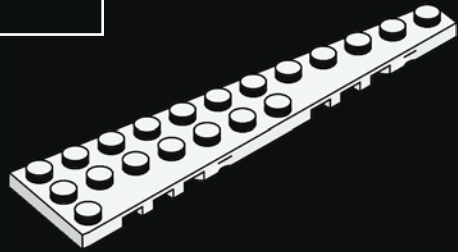


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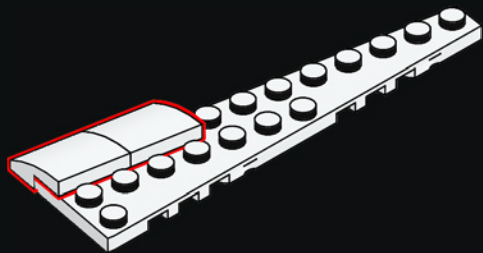




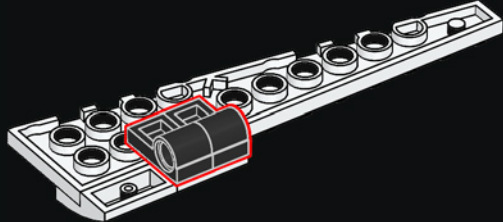
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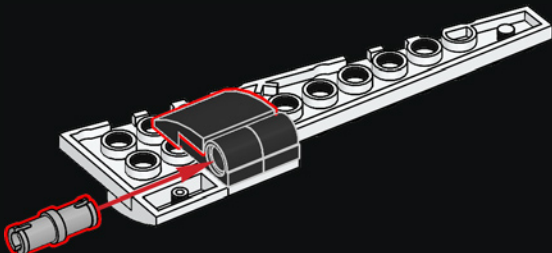
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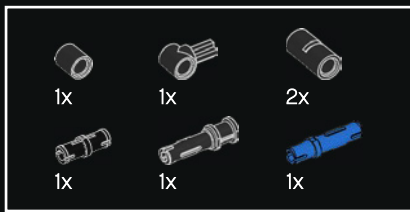


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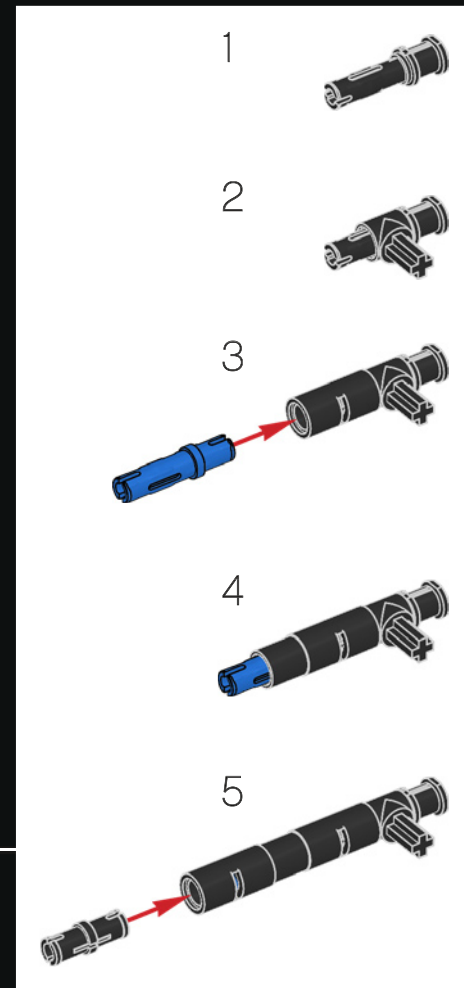
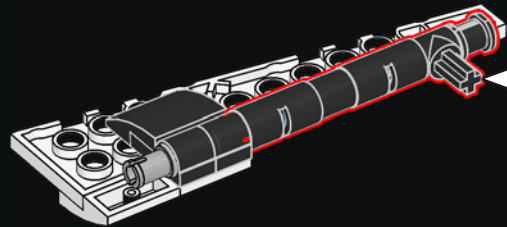


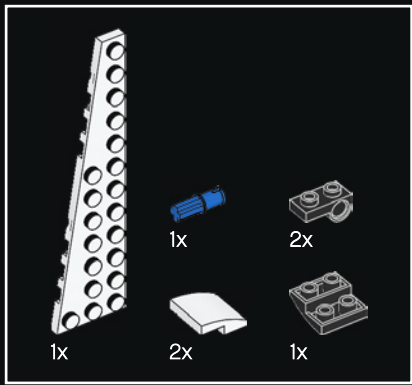
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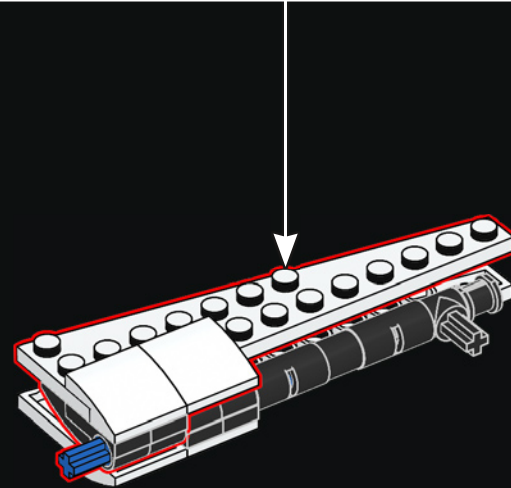
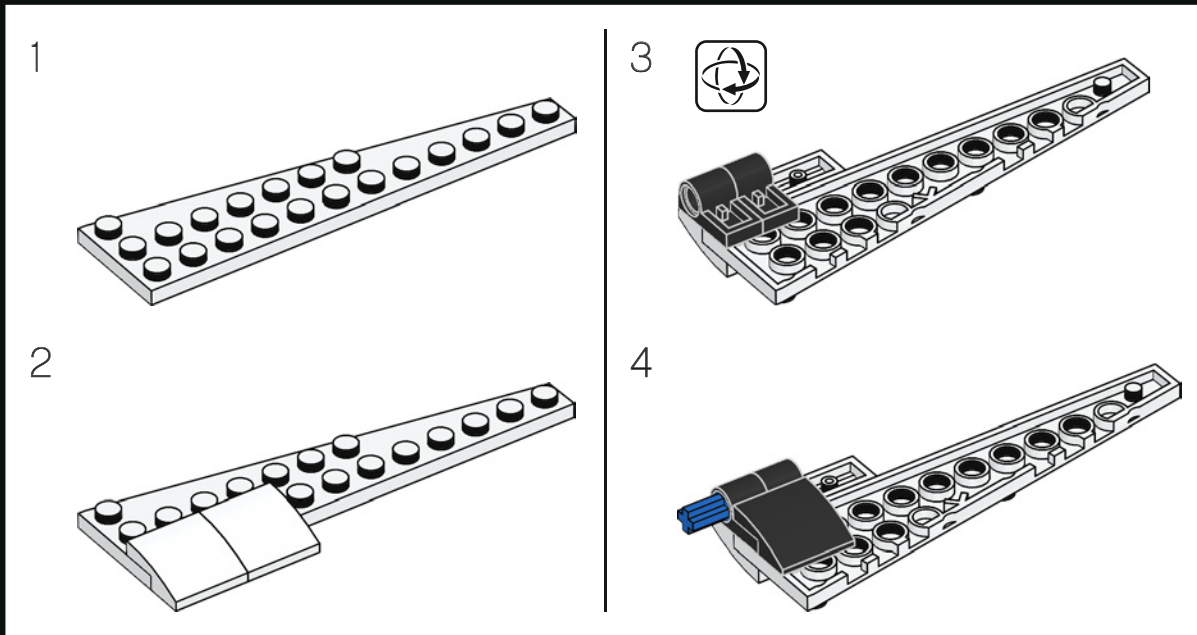


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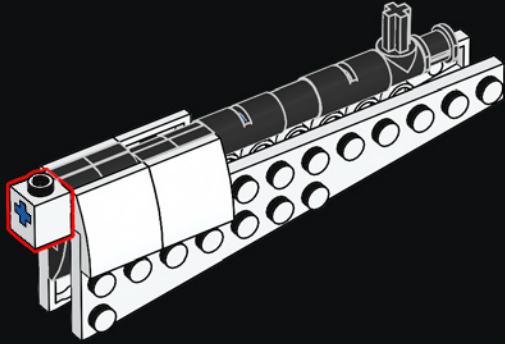


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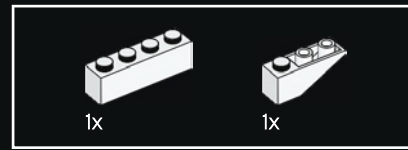
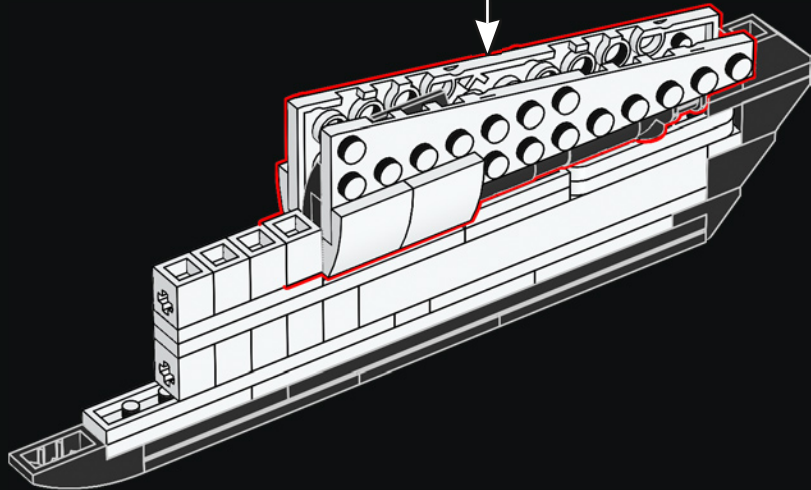




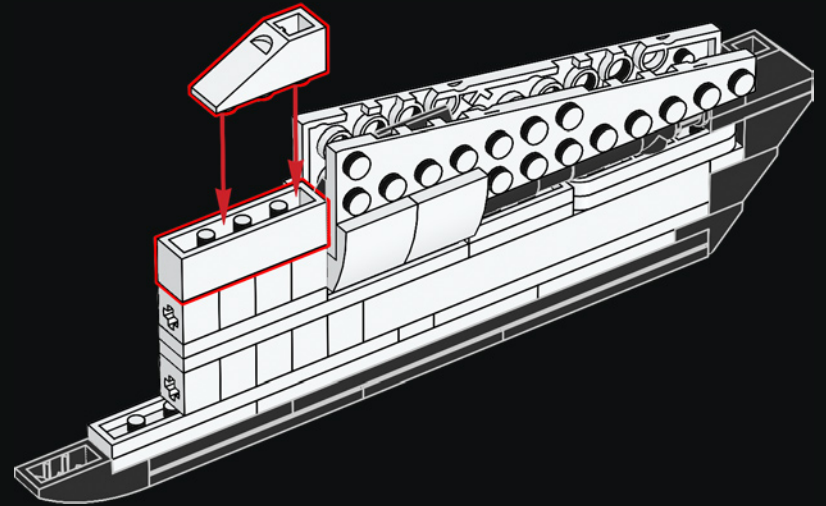
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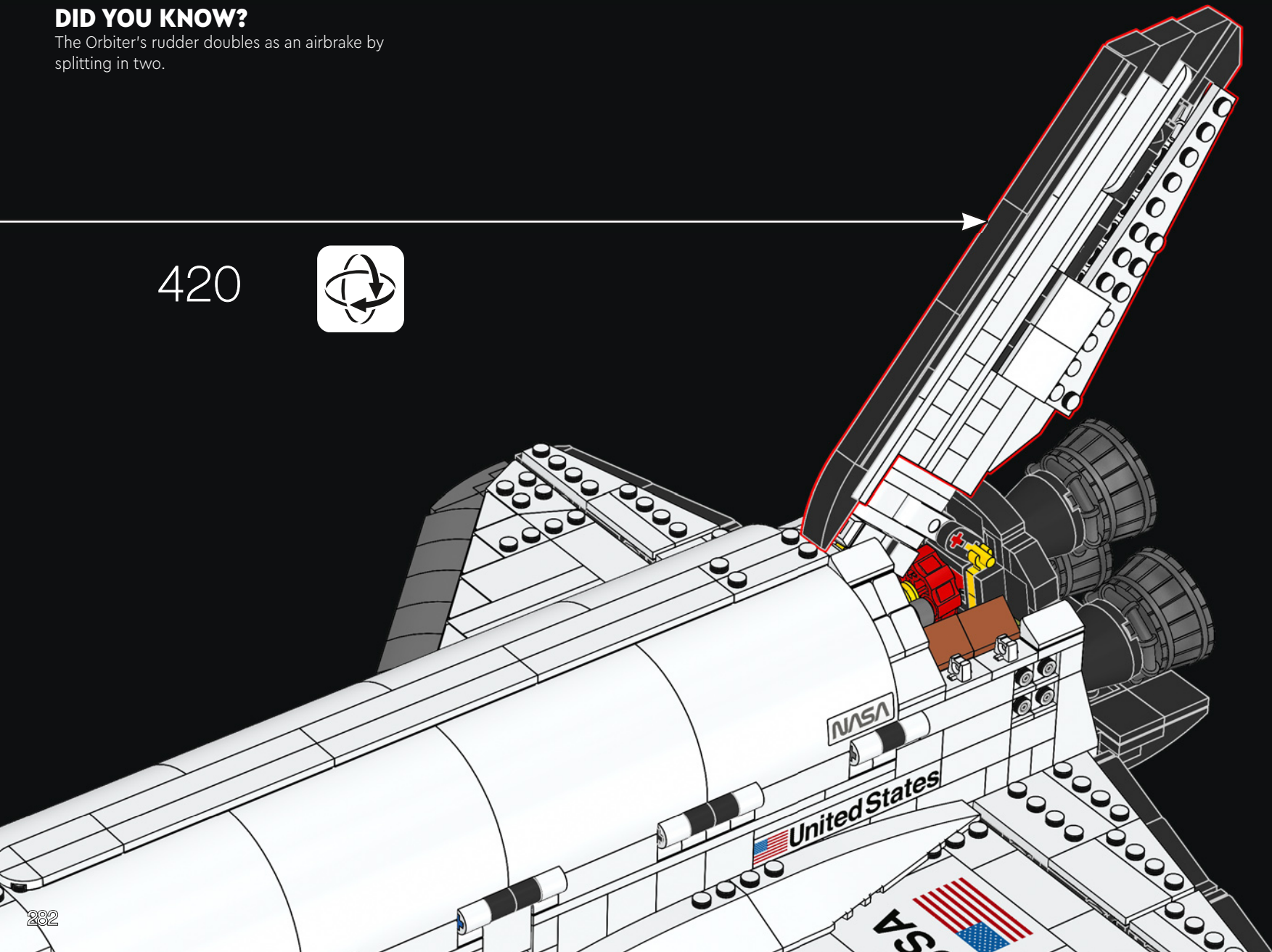
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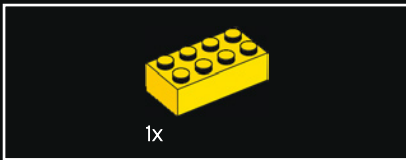
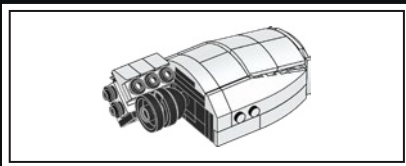
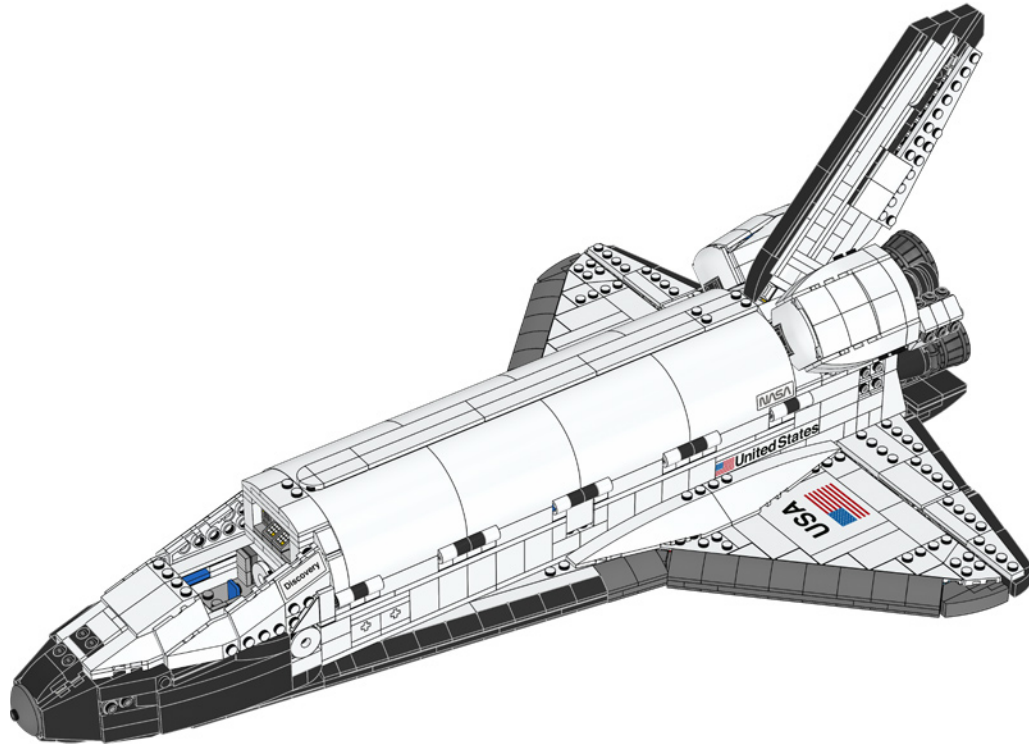


DID YOU KNOW?

The Orbiter's rudder doubles as an airbrake by splitting in two.

420

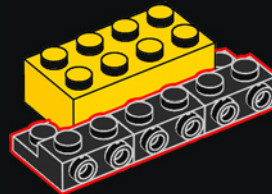




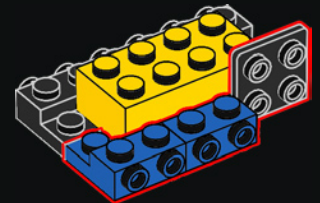
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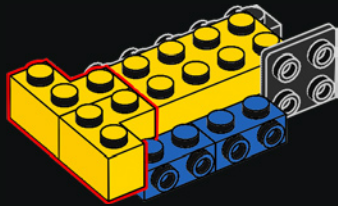


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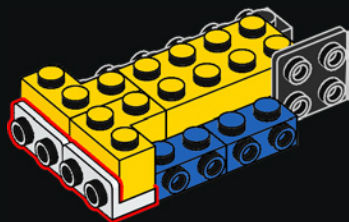




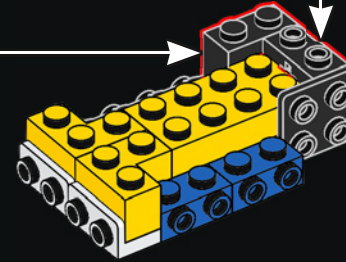
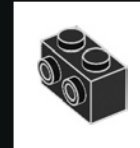
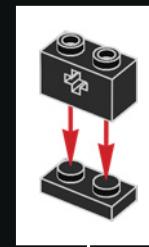
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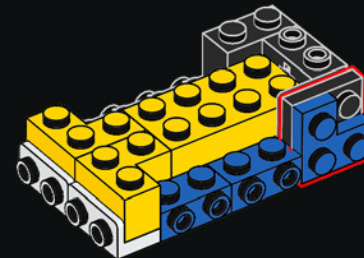
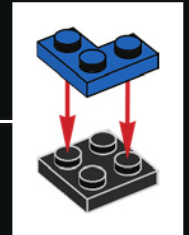
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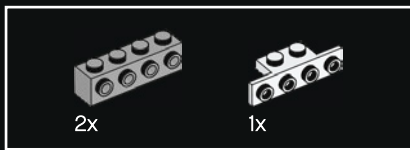


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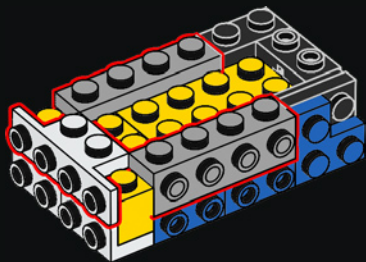


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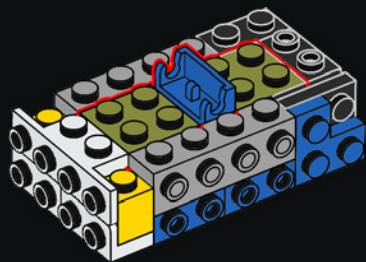




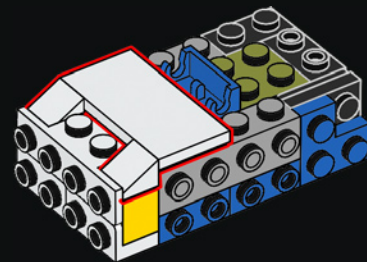
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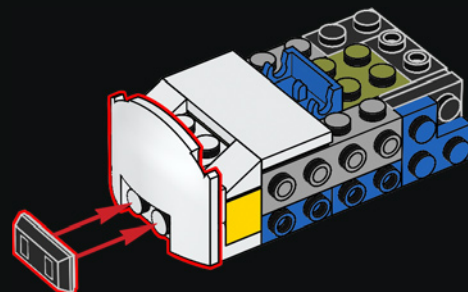
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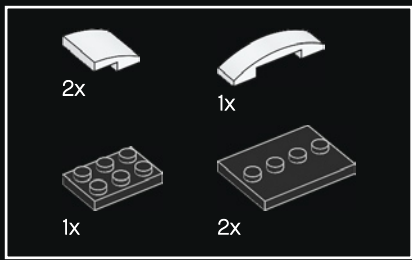


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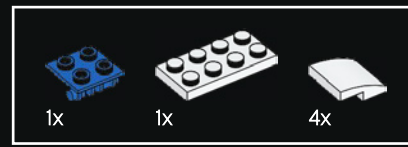
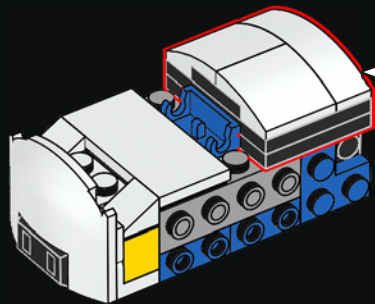
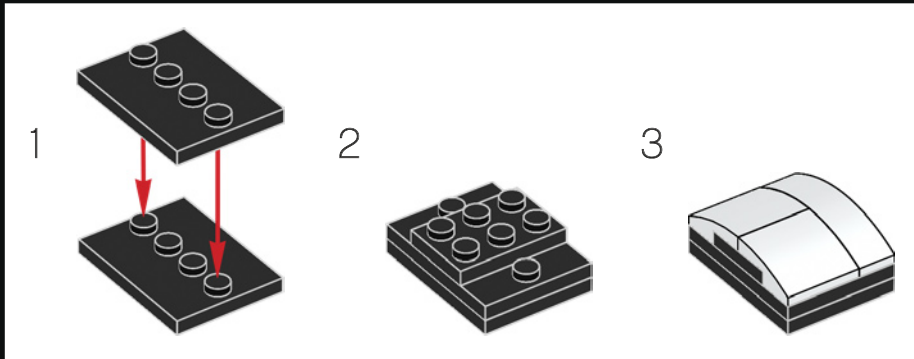


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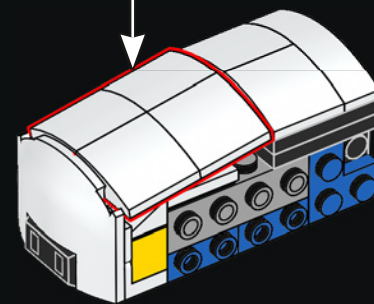
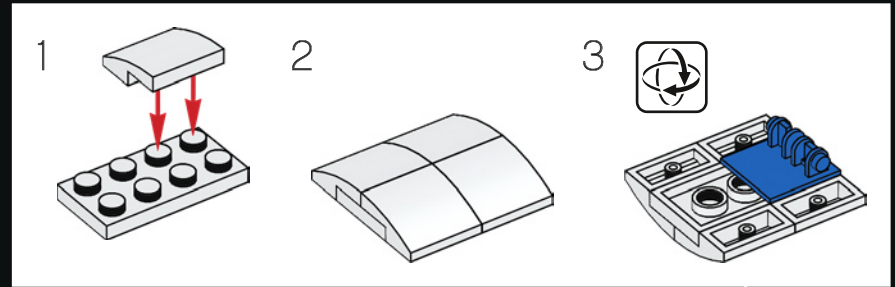




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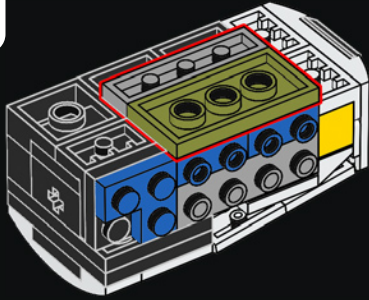


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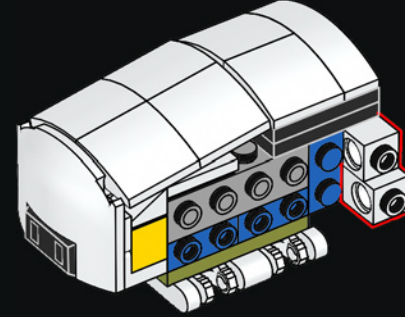




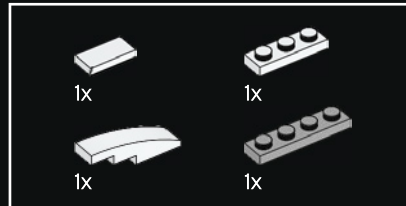
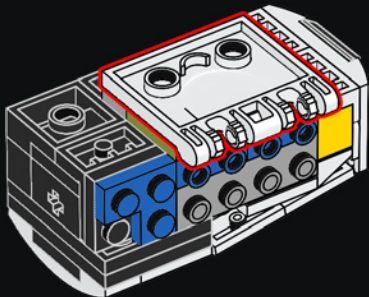
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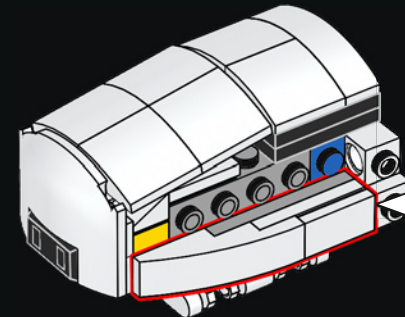
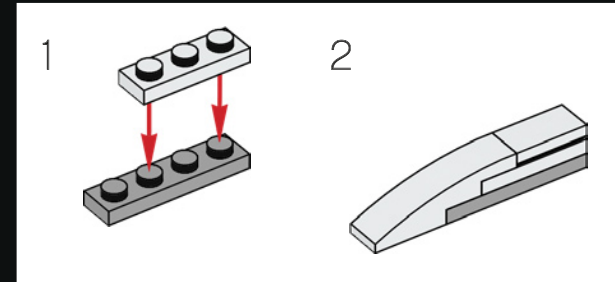
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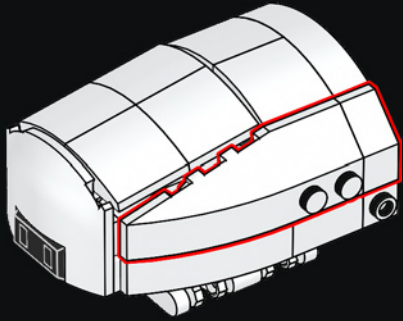


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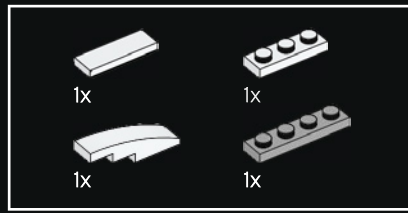
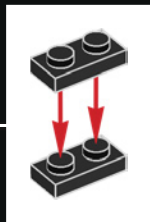
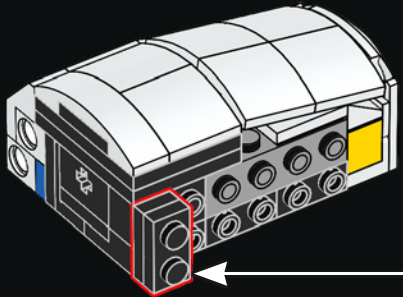




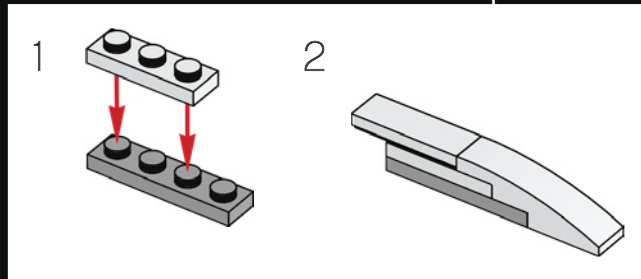
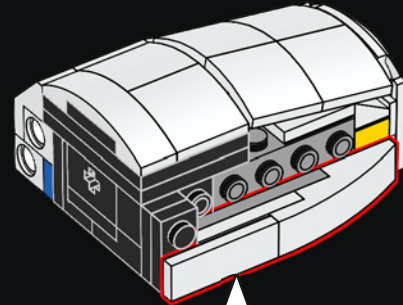
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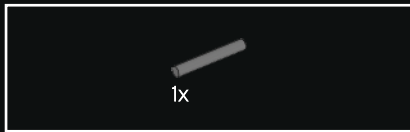
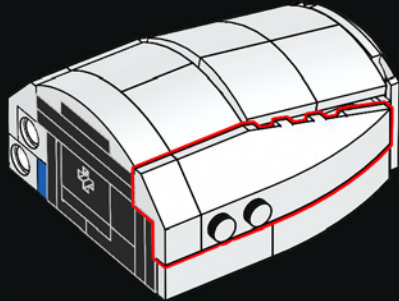


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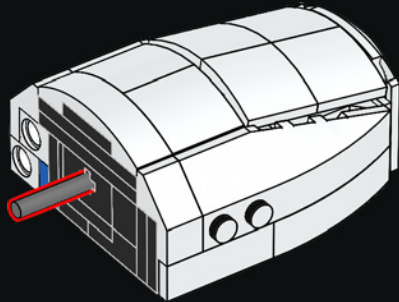




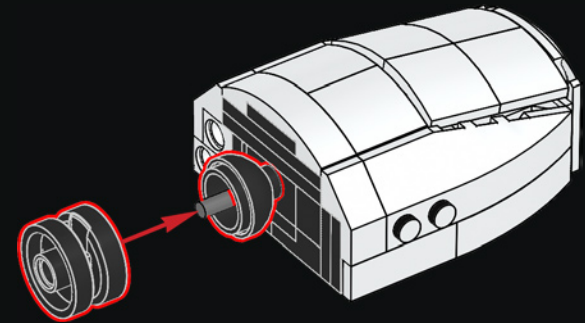
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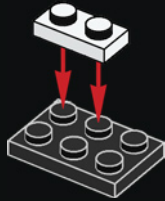


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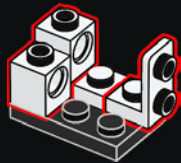




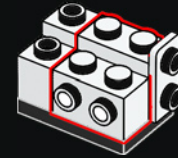
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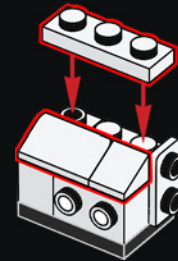
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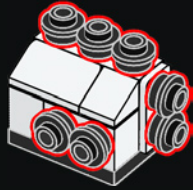


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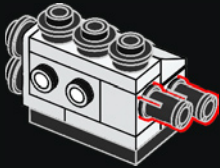




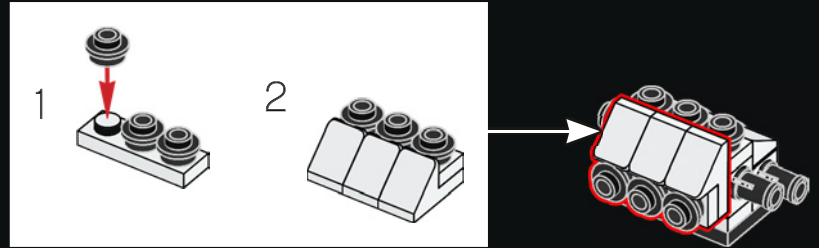
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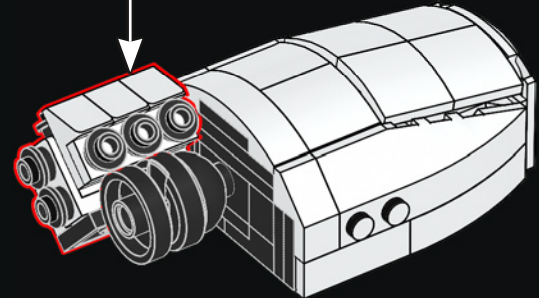
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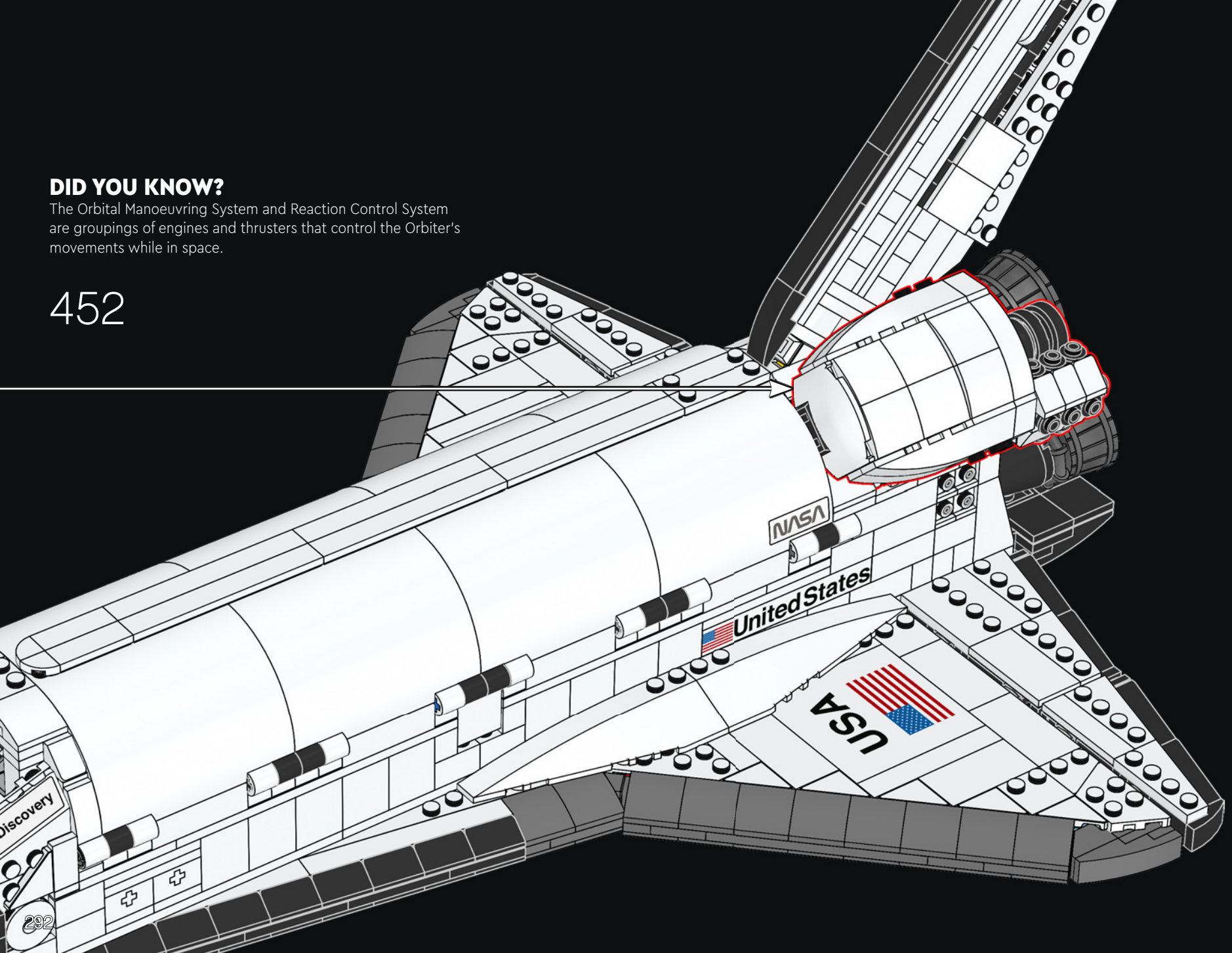
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DID YOU KNOW?

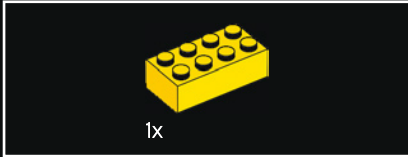
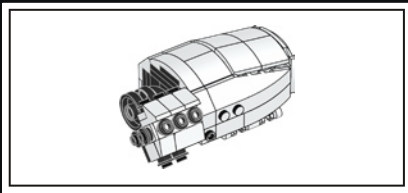
The Orbital Manoeuvring System and Reaction Control System are groupings of engines and thrusters that control the Orbiter's movements while in space.

452



Discovery

292



1x

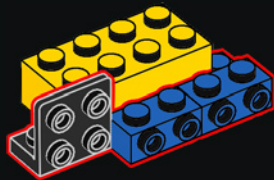
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1x

2x

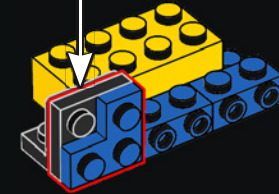
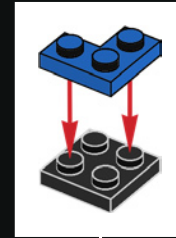
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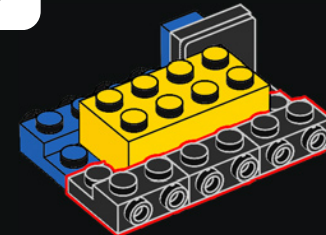
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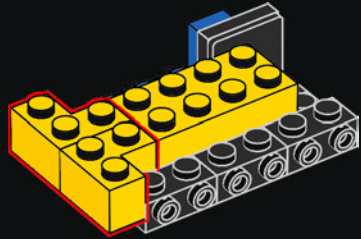
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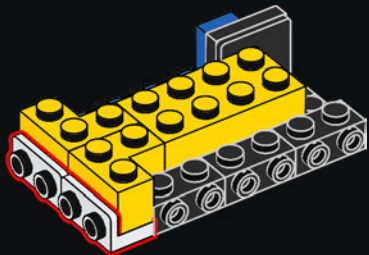




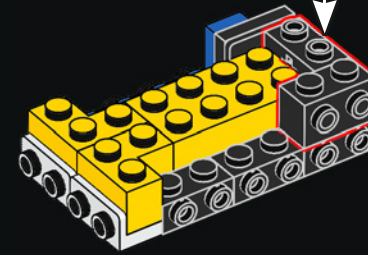
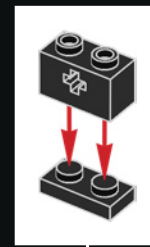
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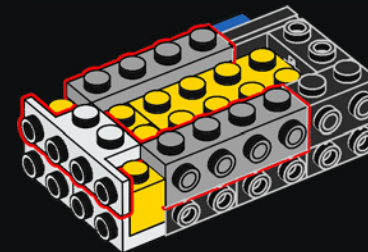
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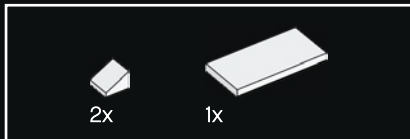
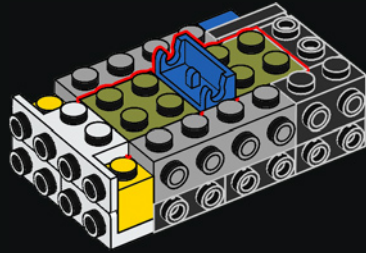


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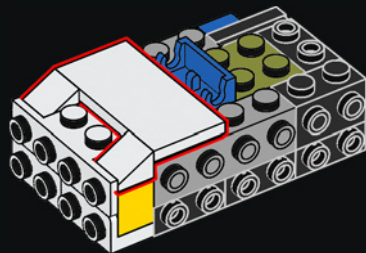




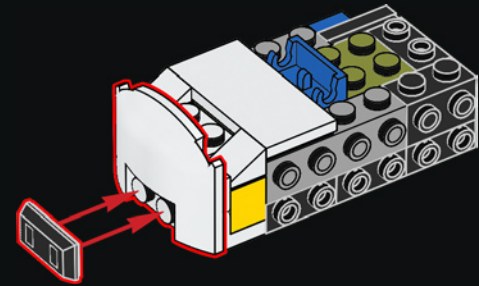
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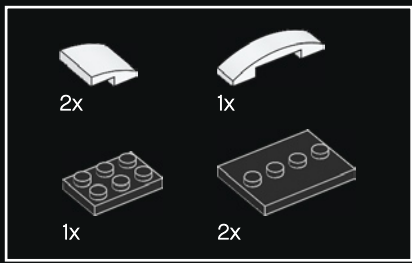


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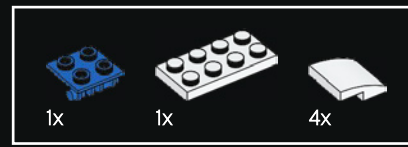
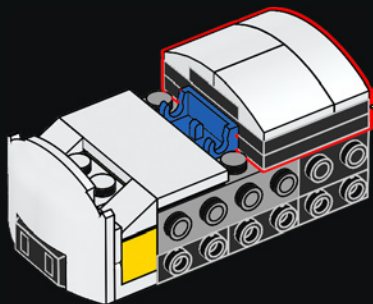
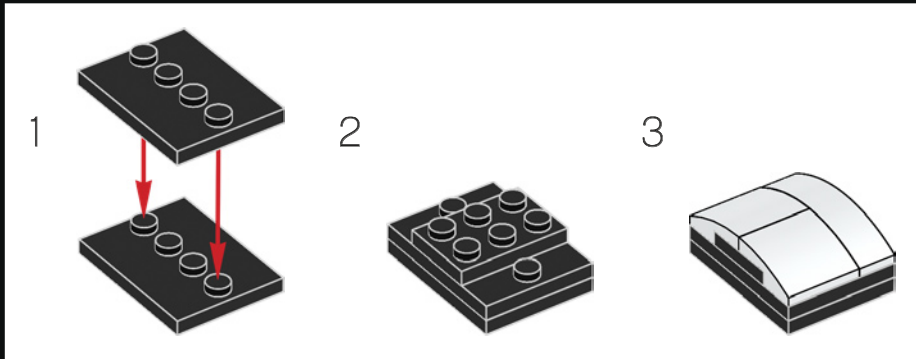


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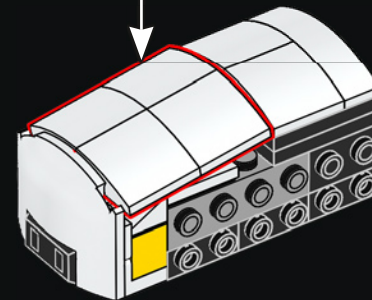
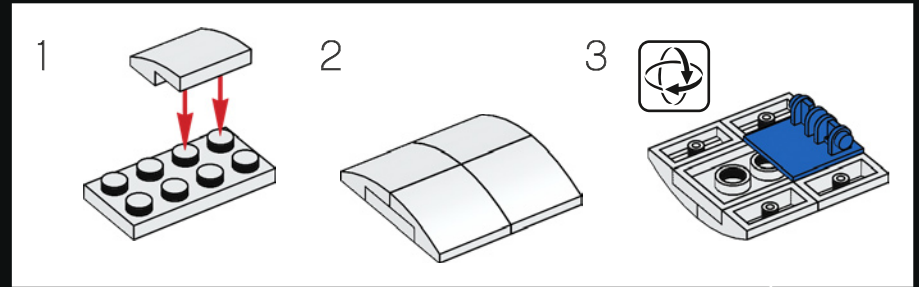




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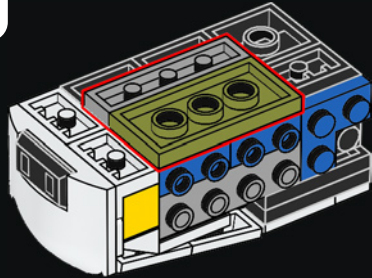


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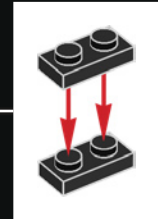
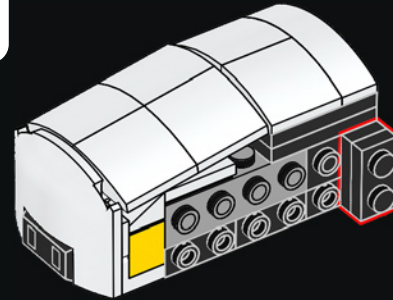




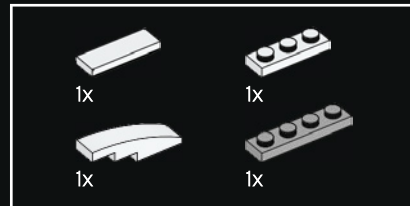
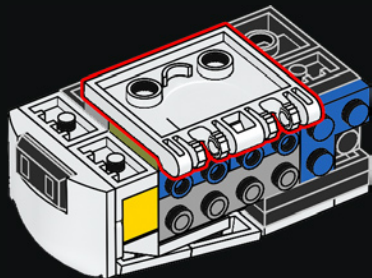
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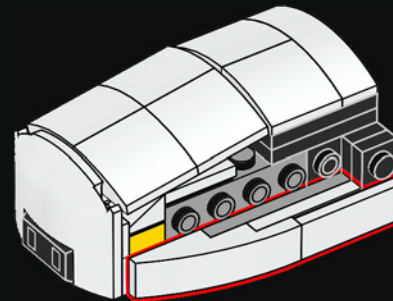
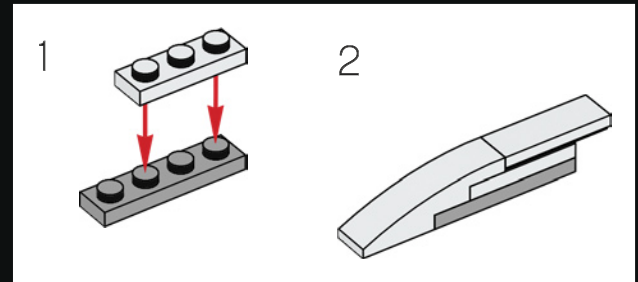
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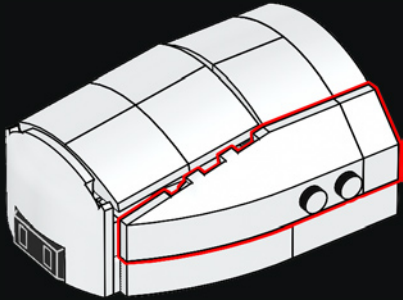


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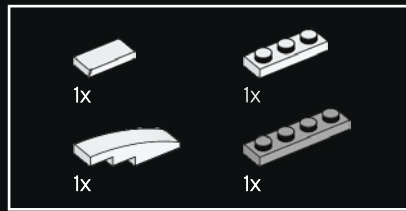
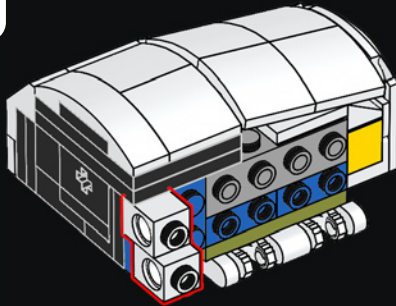




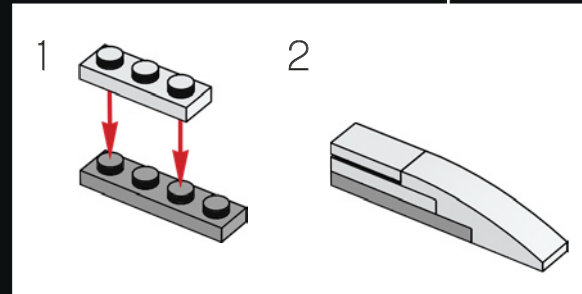
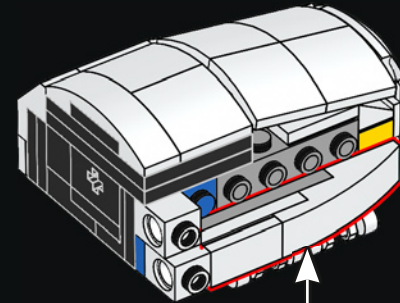
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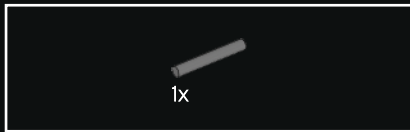
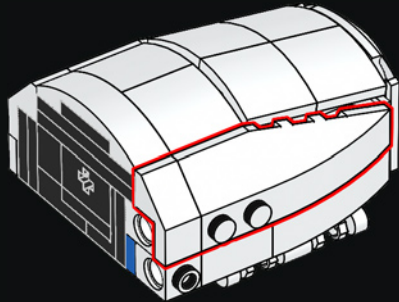


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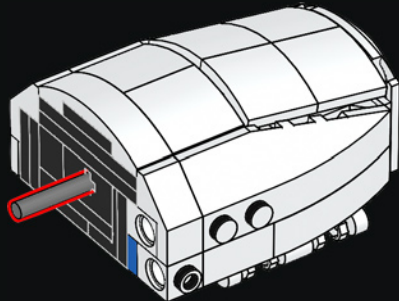




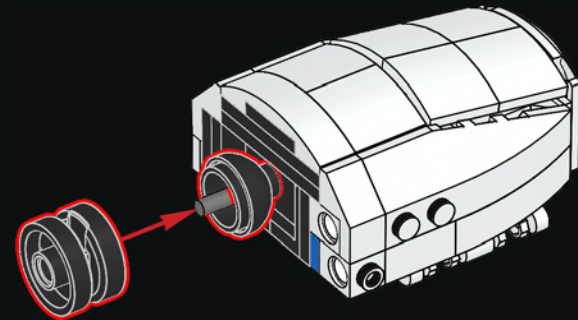
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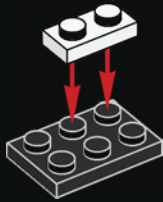


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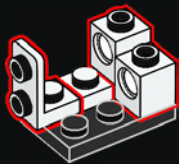




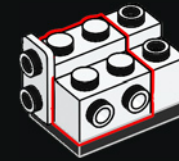
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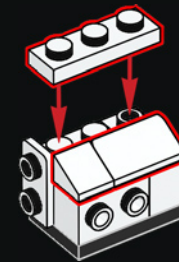
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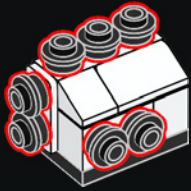


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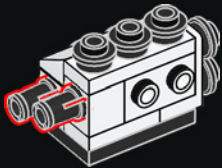




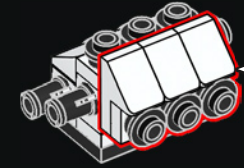
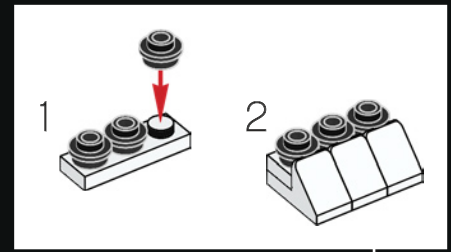
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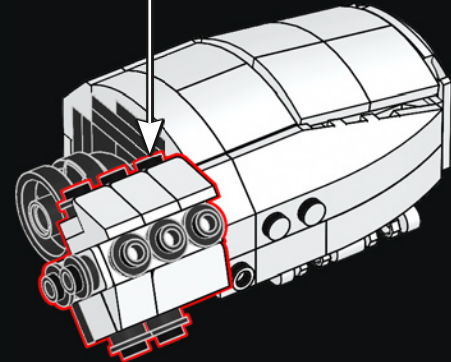
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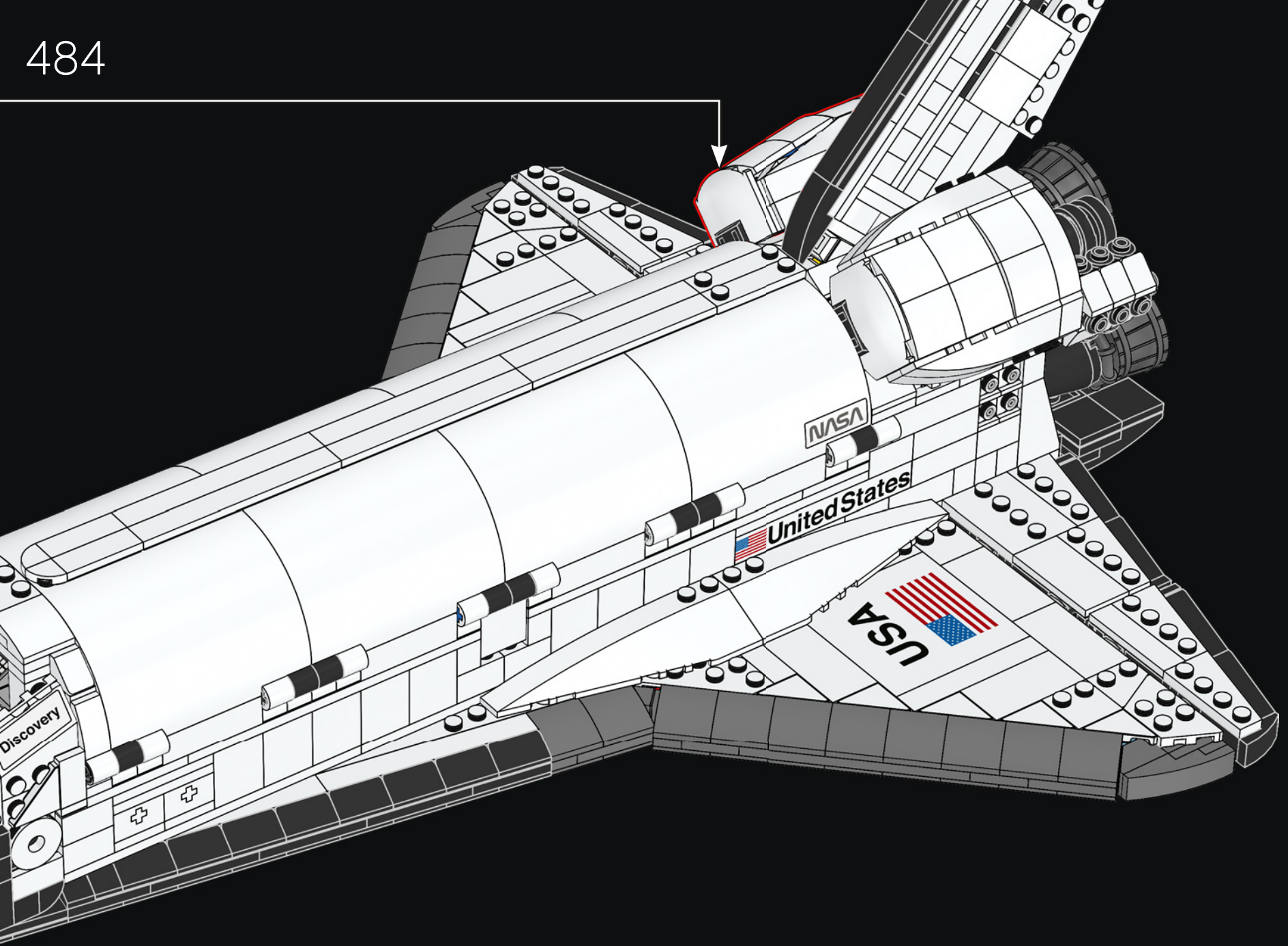


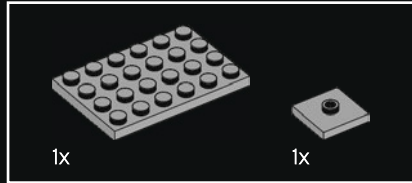
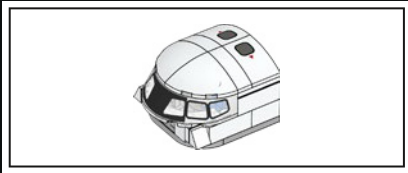
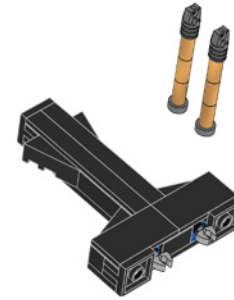
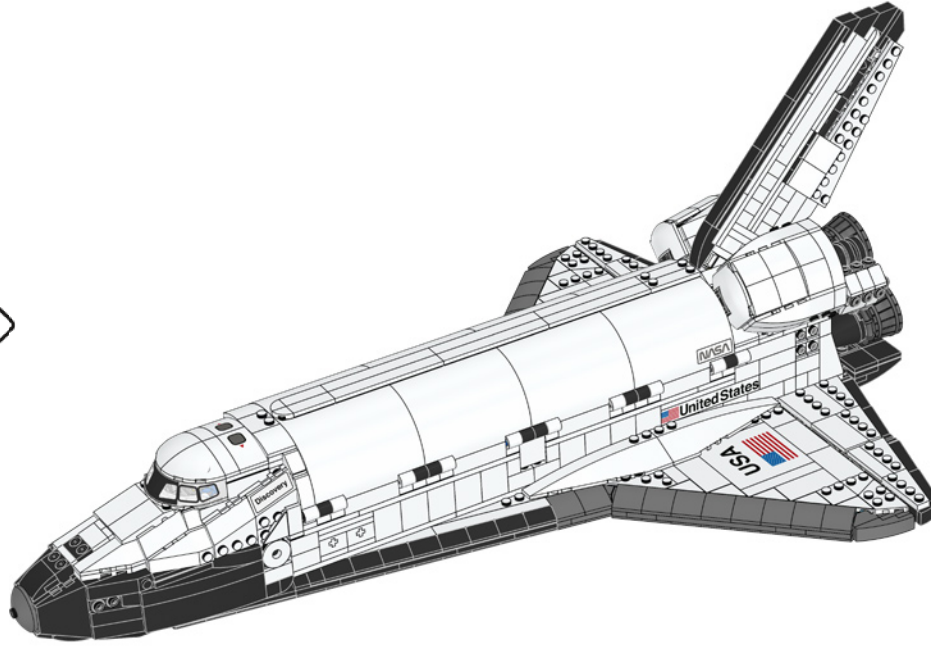
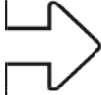
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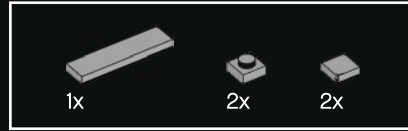
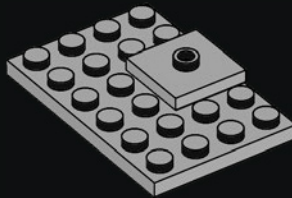
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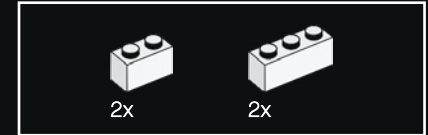
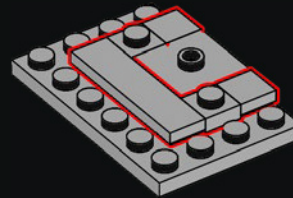




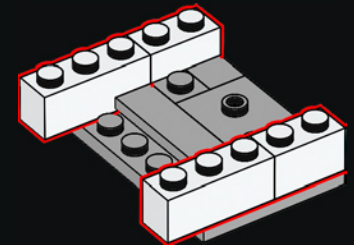
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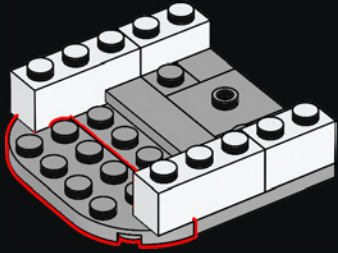


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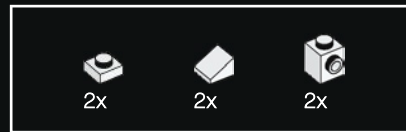
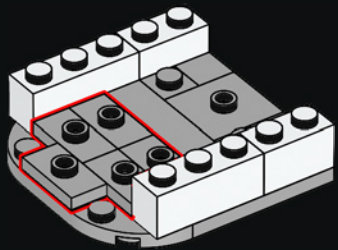




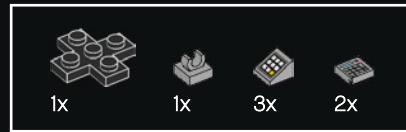
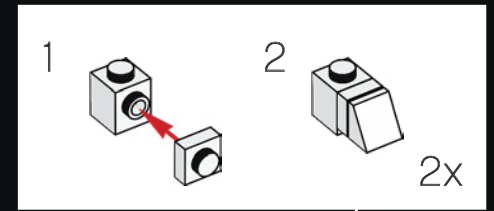
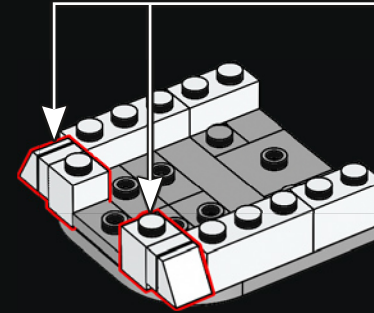
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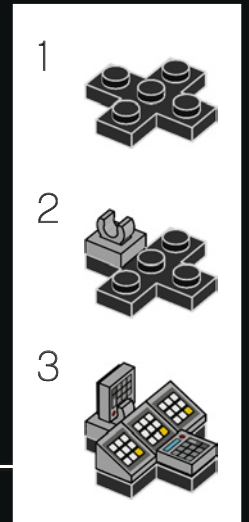
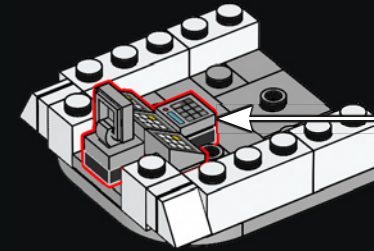
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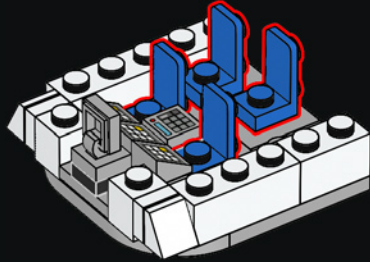


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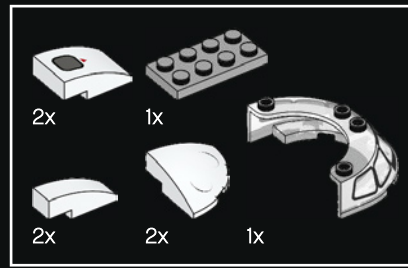
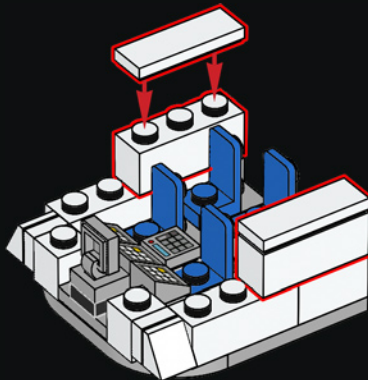




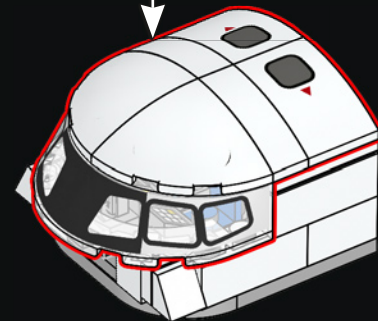
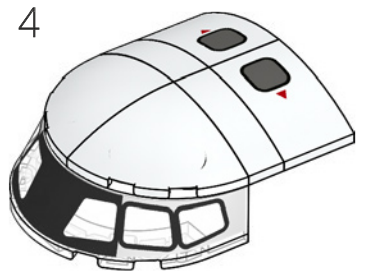
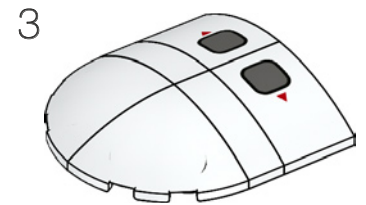
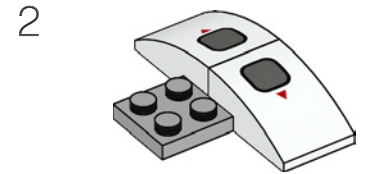
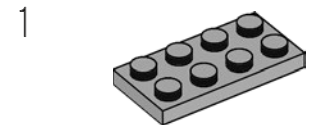
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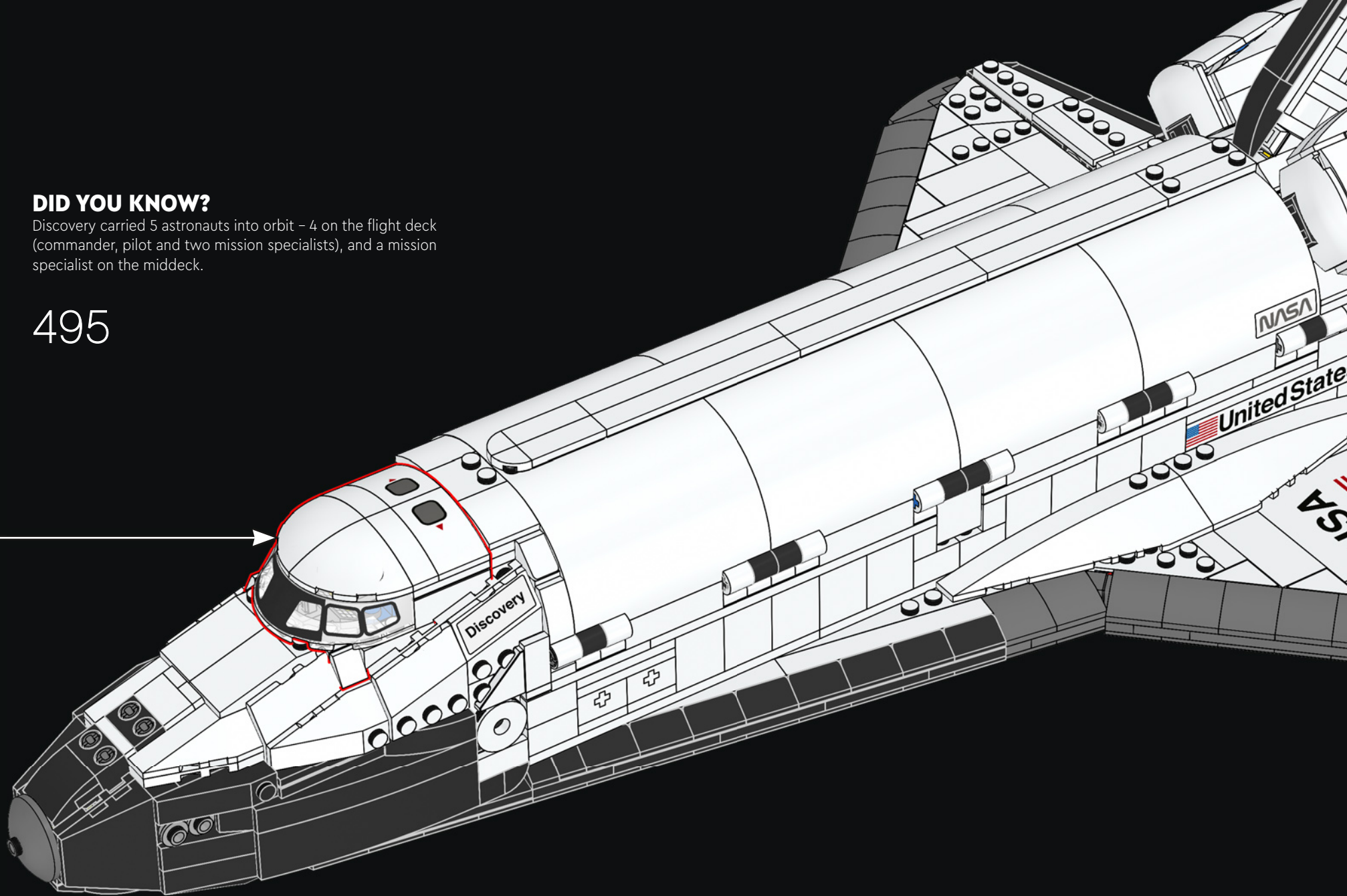
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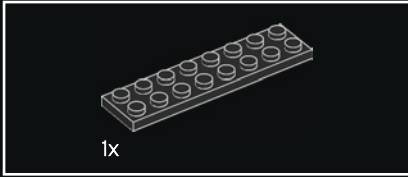
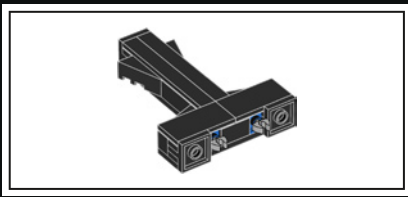


DID YOU KNOW?

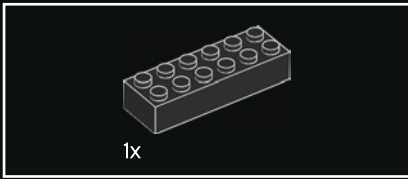
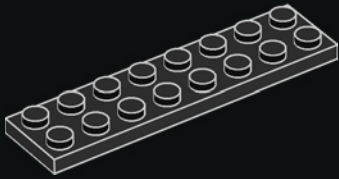
Discovery carried 5 astronauts into orbit – 4 on the flight deck (commander, pilot and two mission specialists), and a mission specialist on the middeck.

495

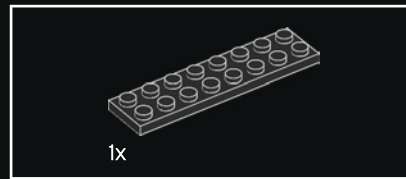
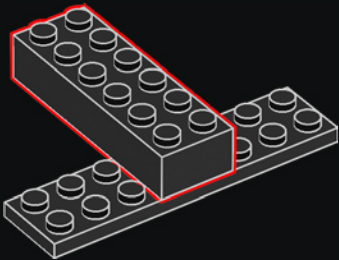




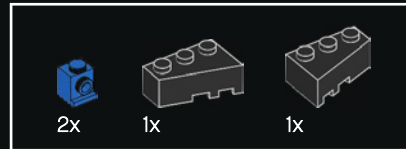
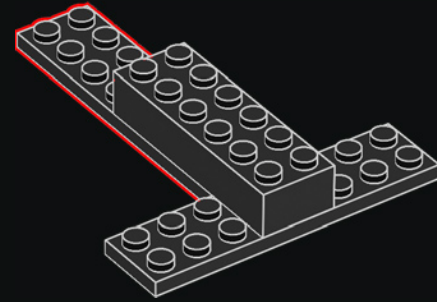
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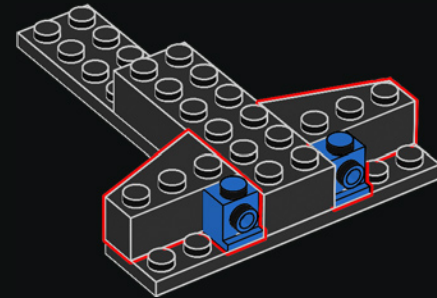
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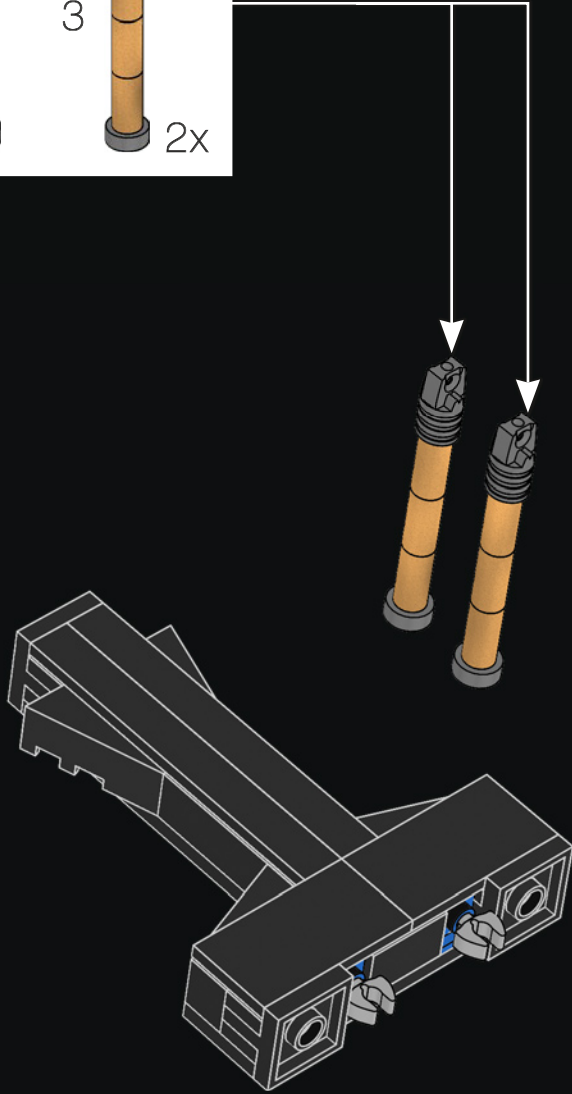
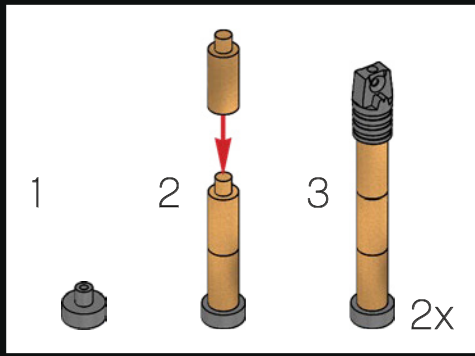


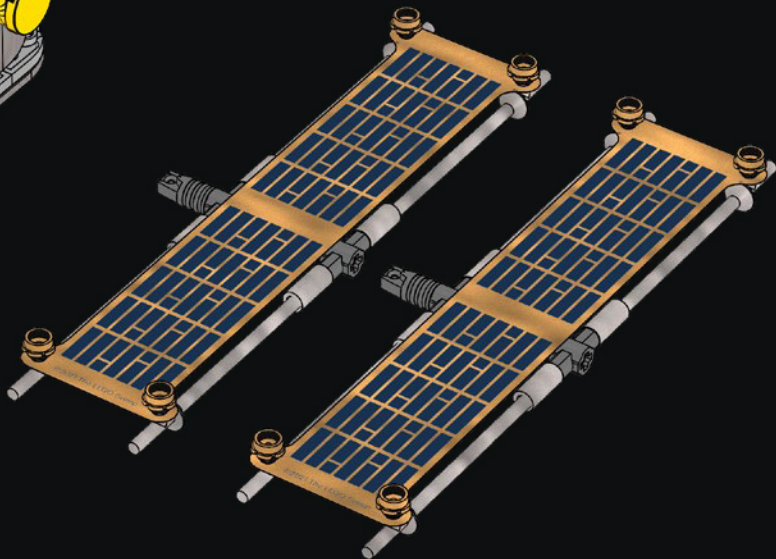
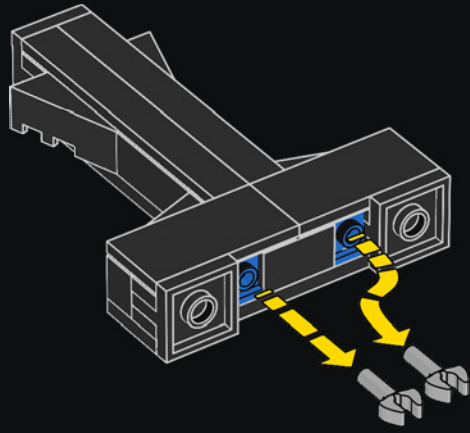
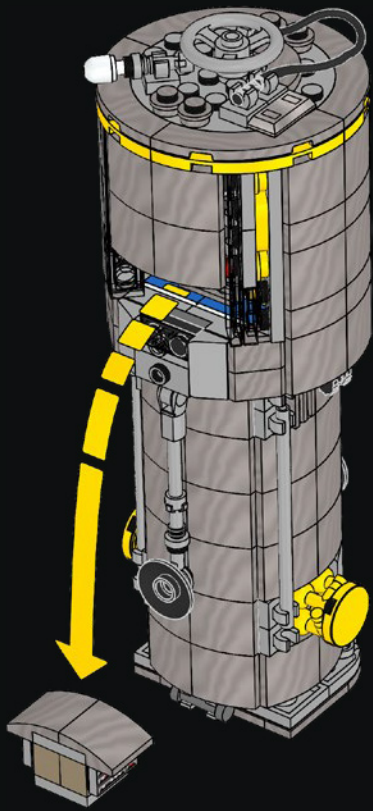
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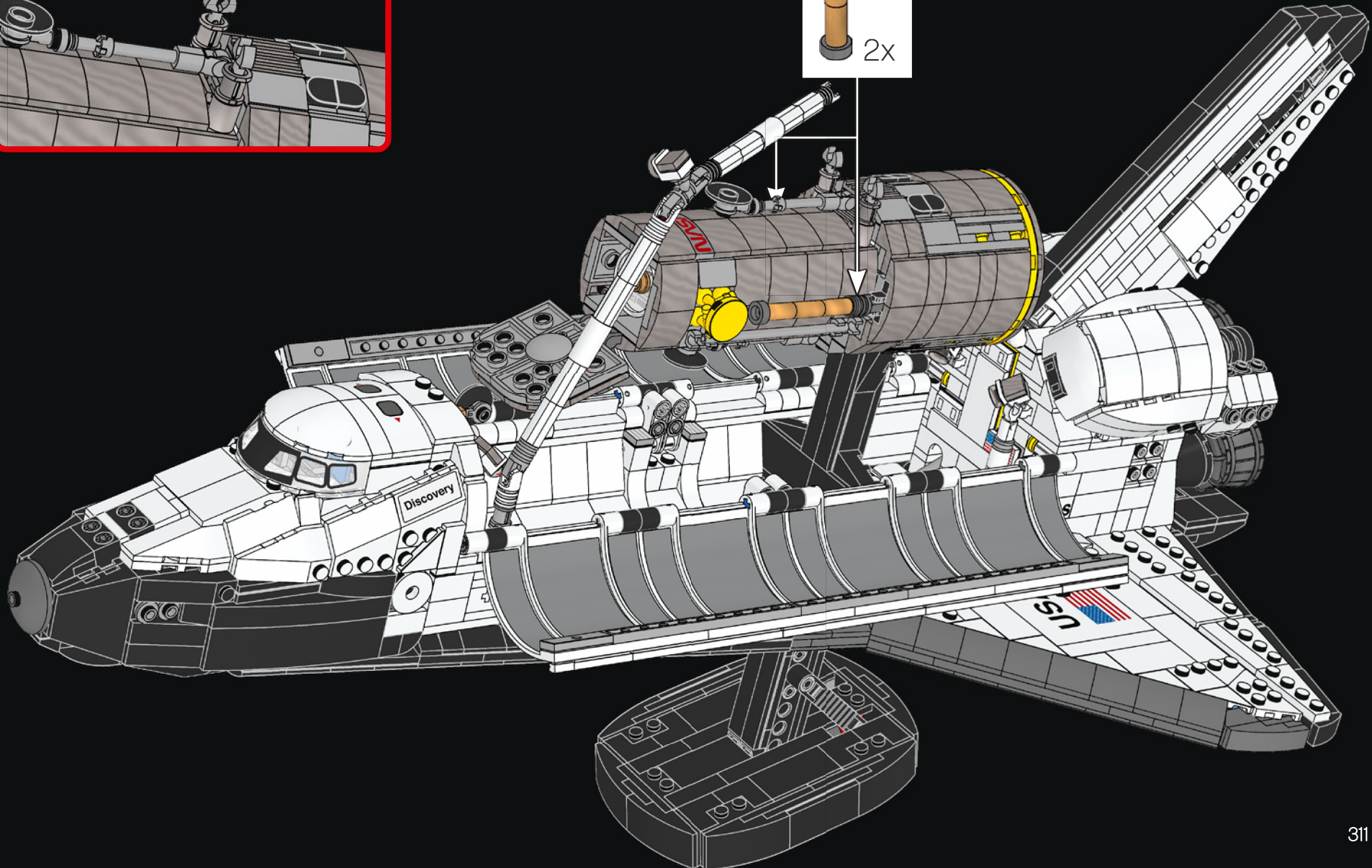
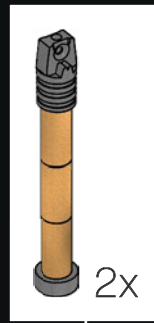
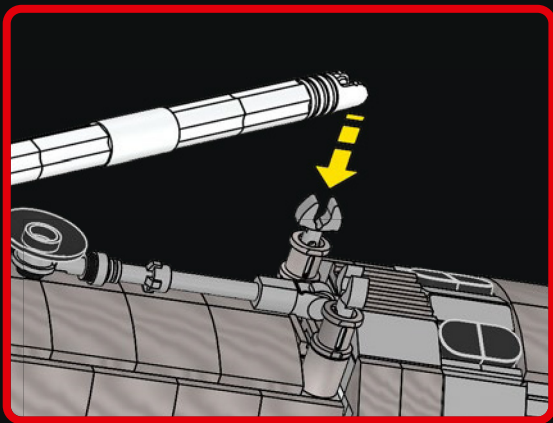


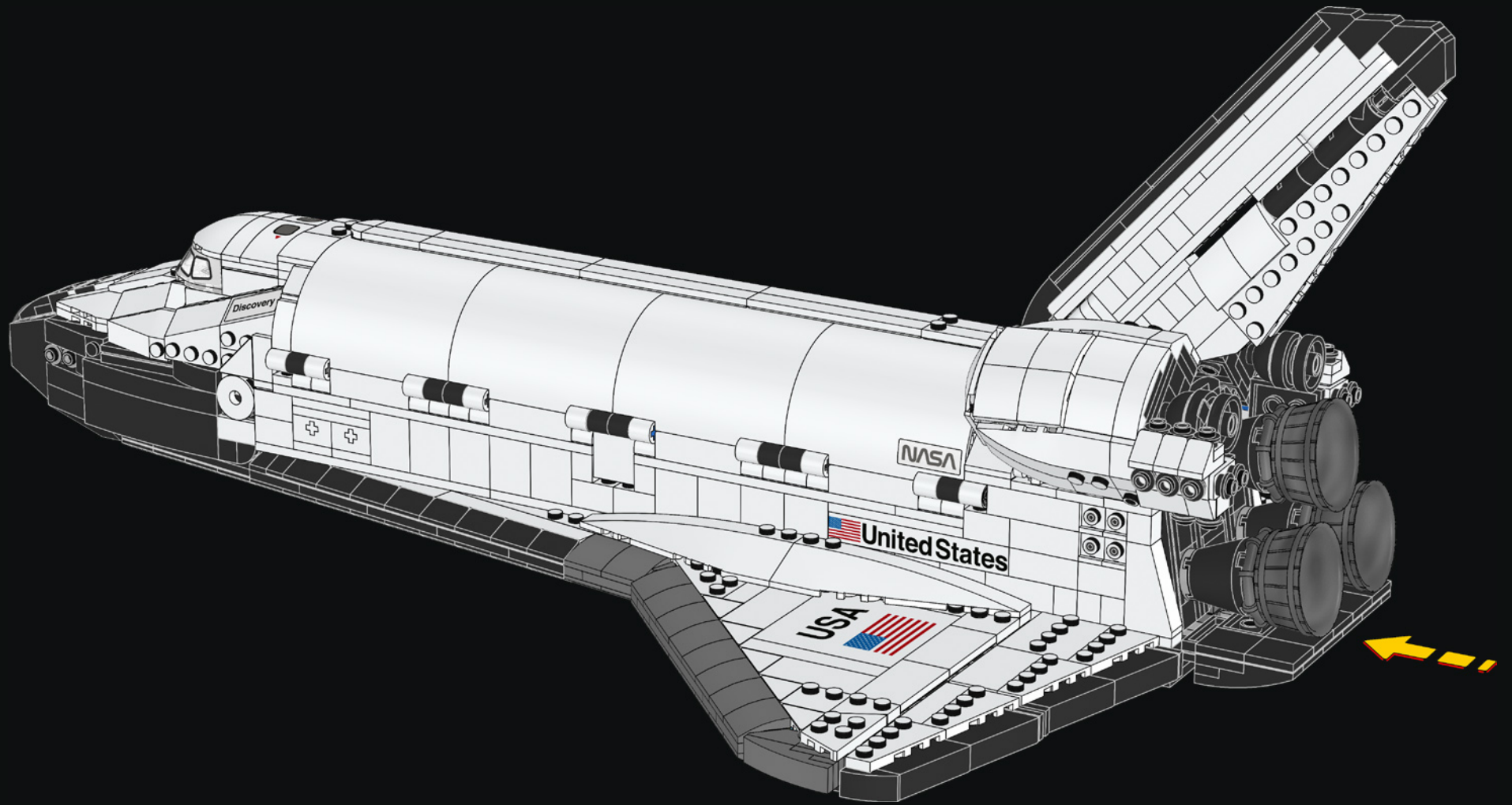


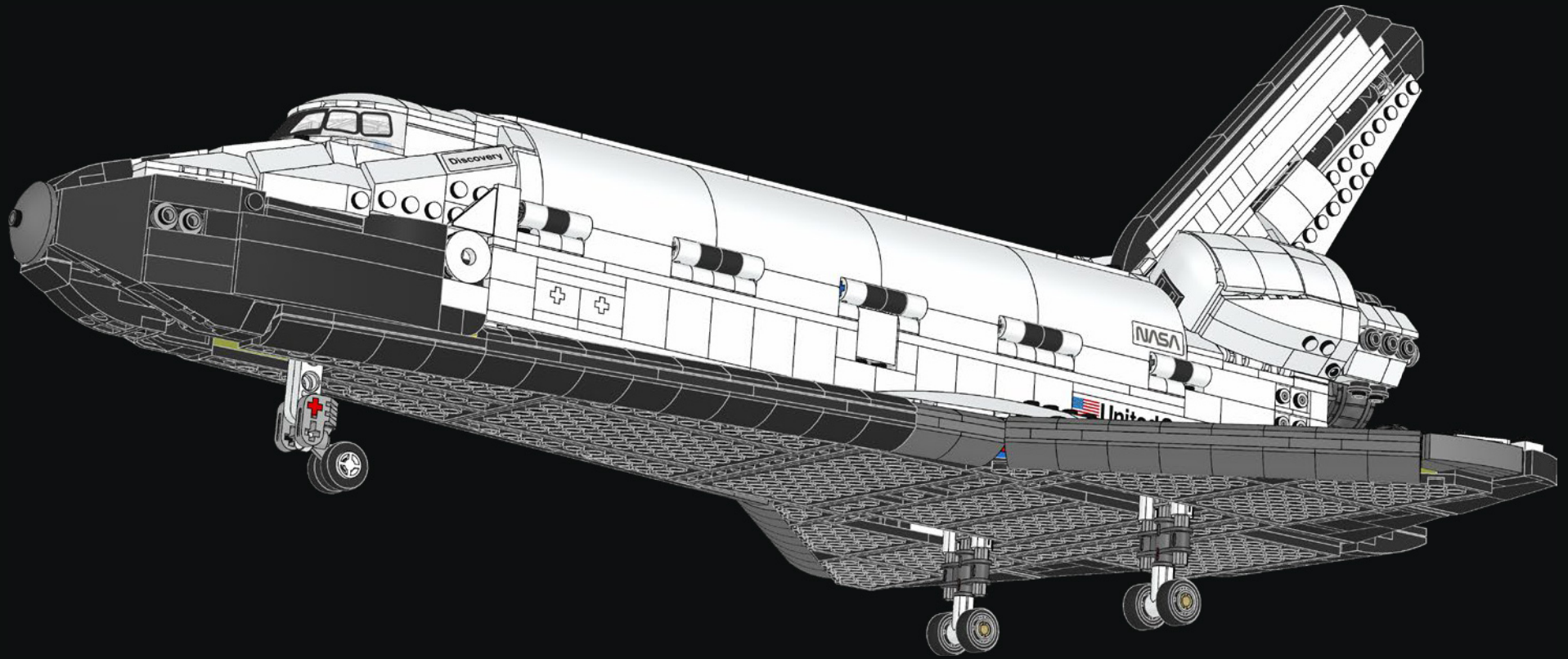
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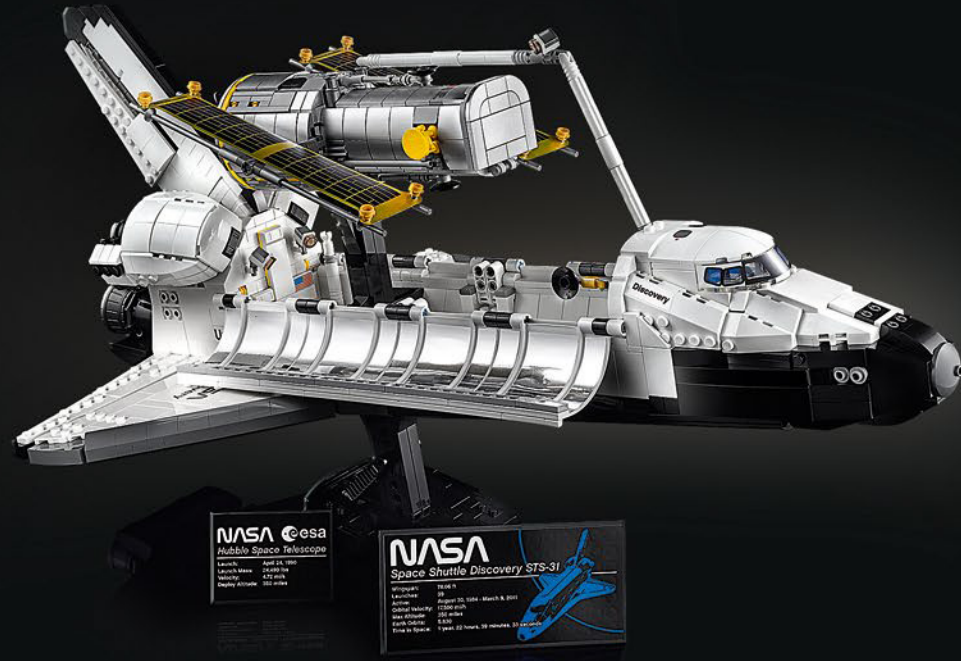














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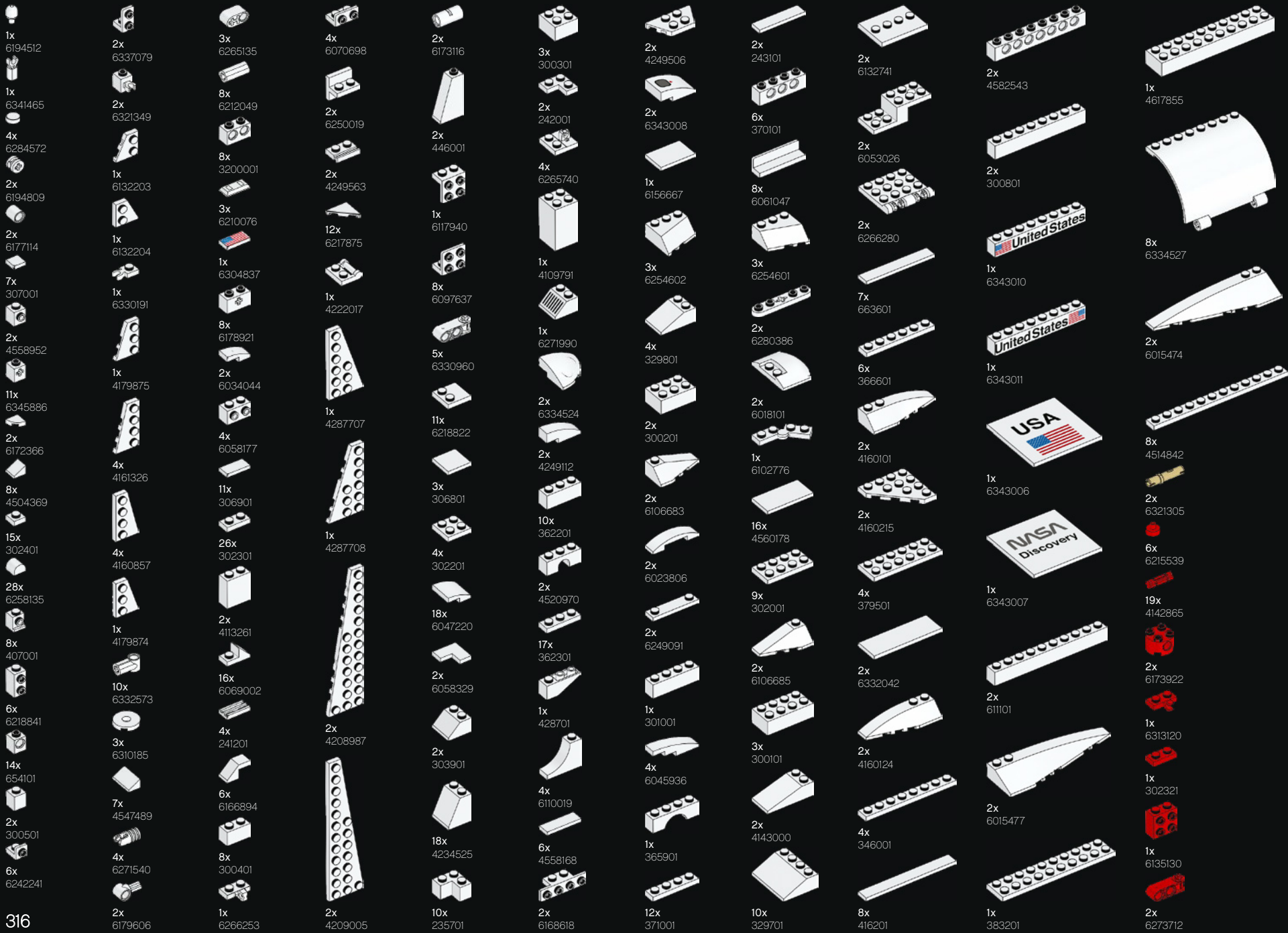
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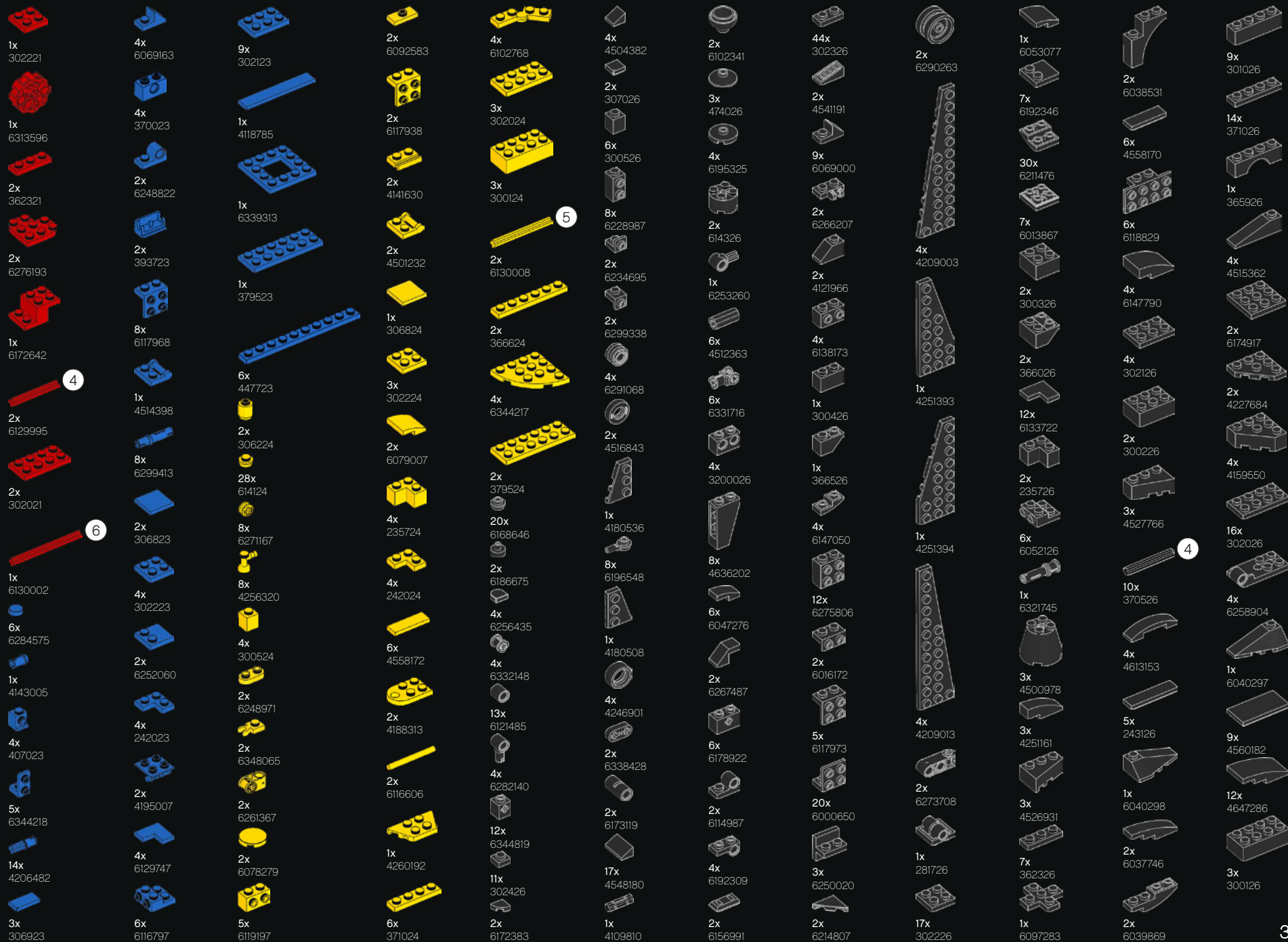
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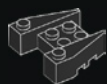


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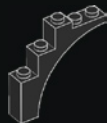
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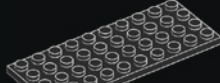
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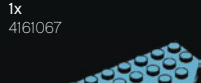
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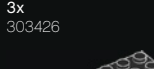
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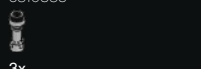
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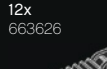
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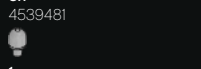
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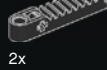
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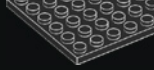
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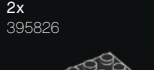
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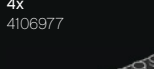
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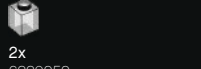
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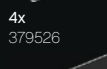
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