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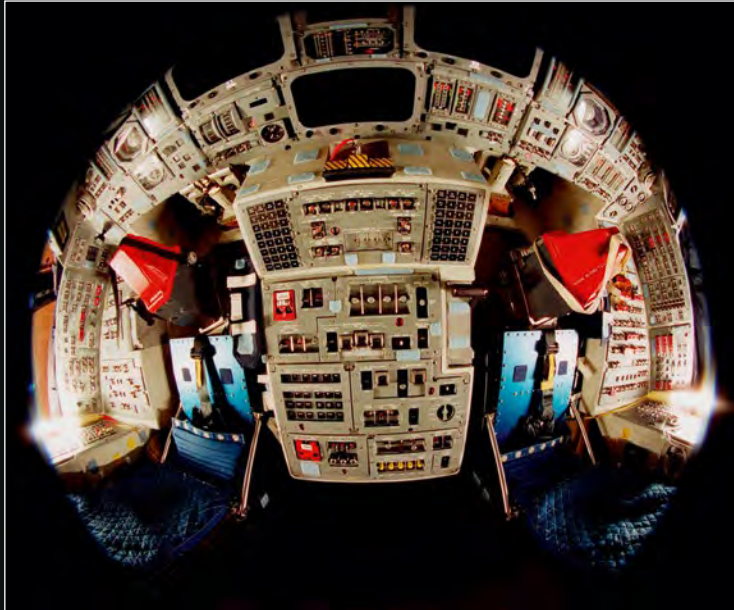


A SPACEFLIGHT ICON

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



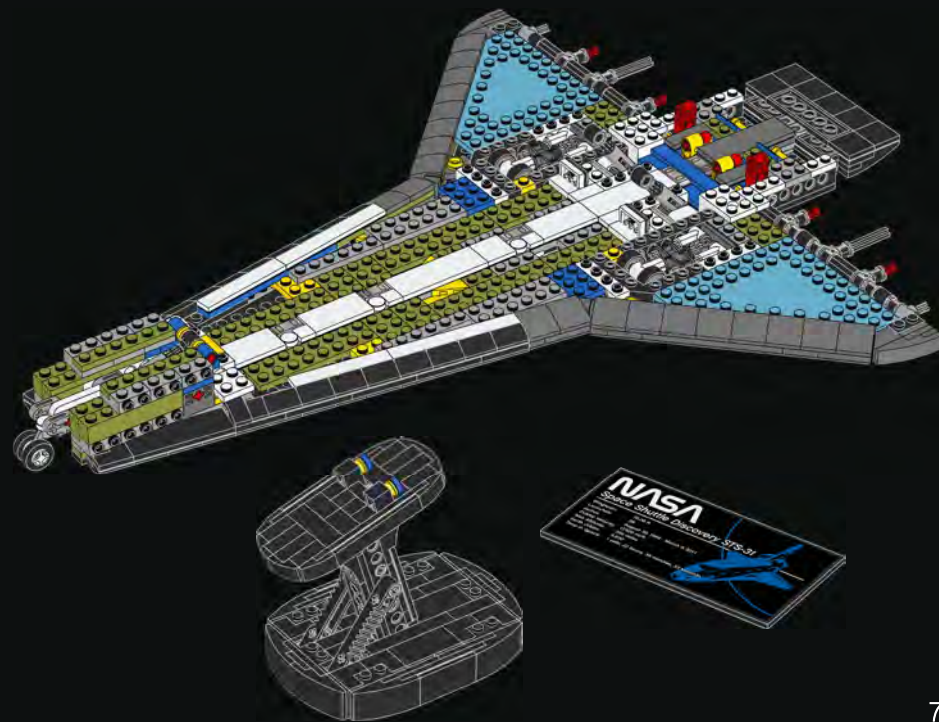
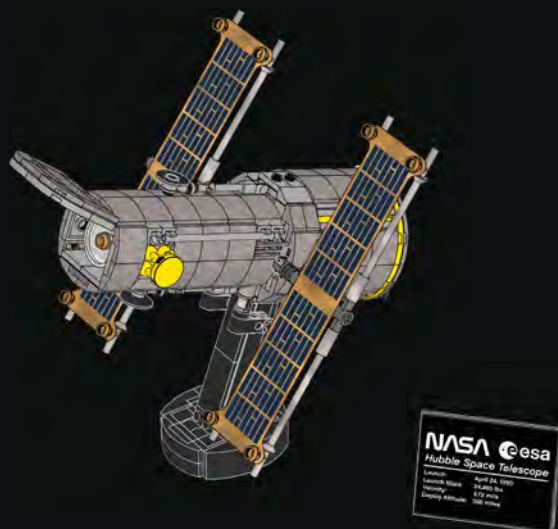


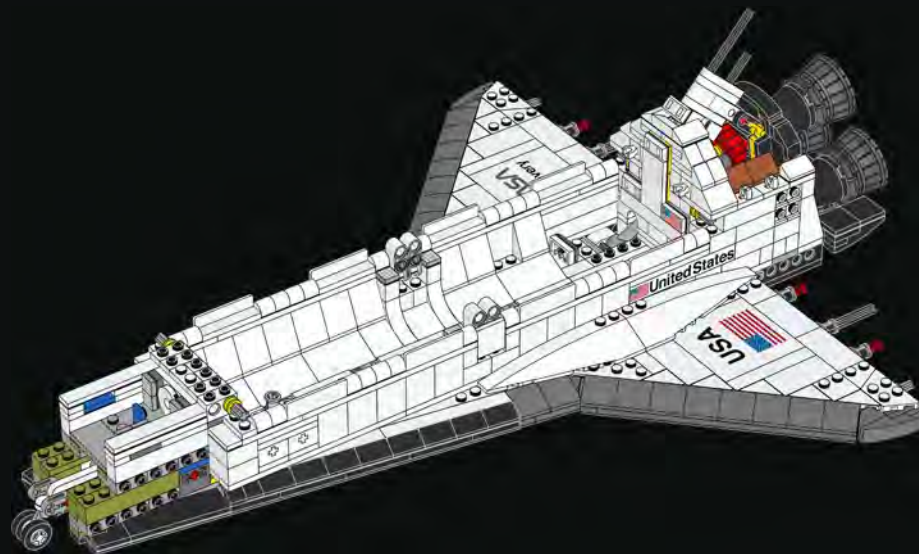
FUTURE ENDEAVOURS

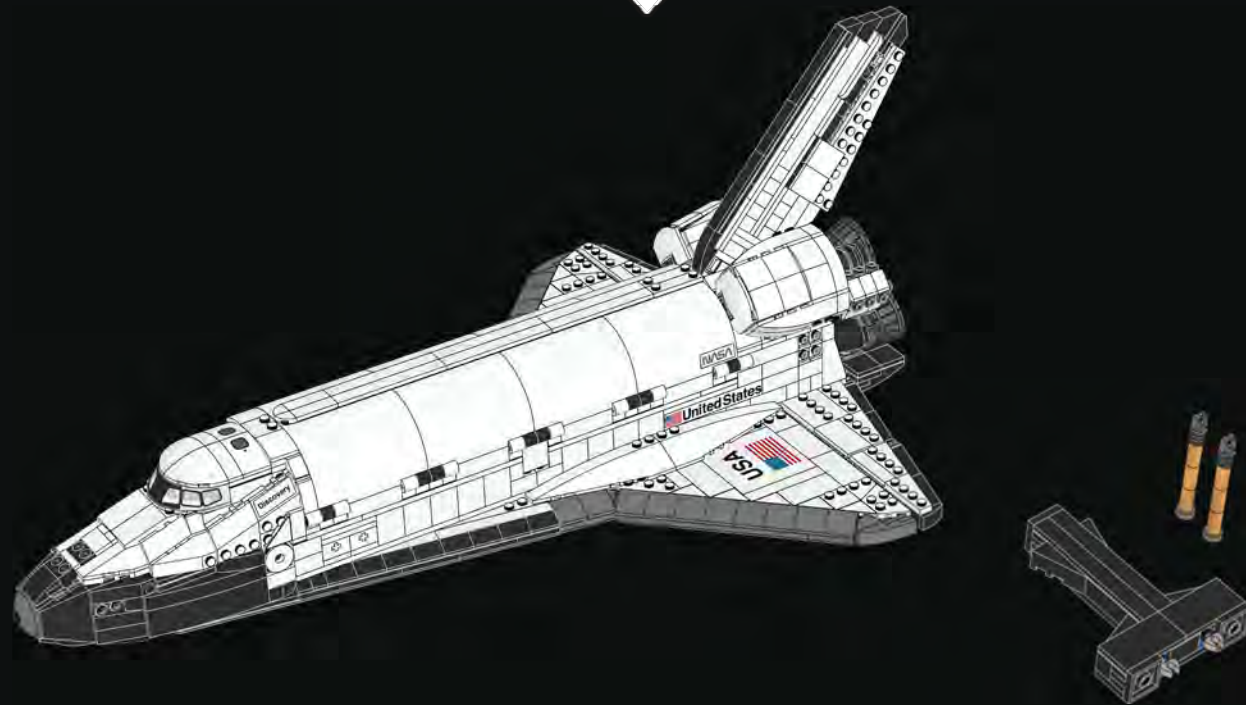
Since retiring the space shuttle in 2011, NASA has created public-private partnerships with the companies Boeing and SpaceX to develop and operate a new generation of spacecraft and launch systems, capable of carrying crews to low-Earth orbit and the International Space Station. Encouraging industry 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.



LEGO.com/brickseparator







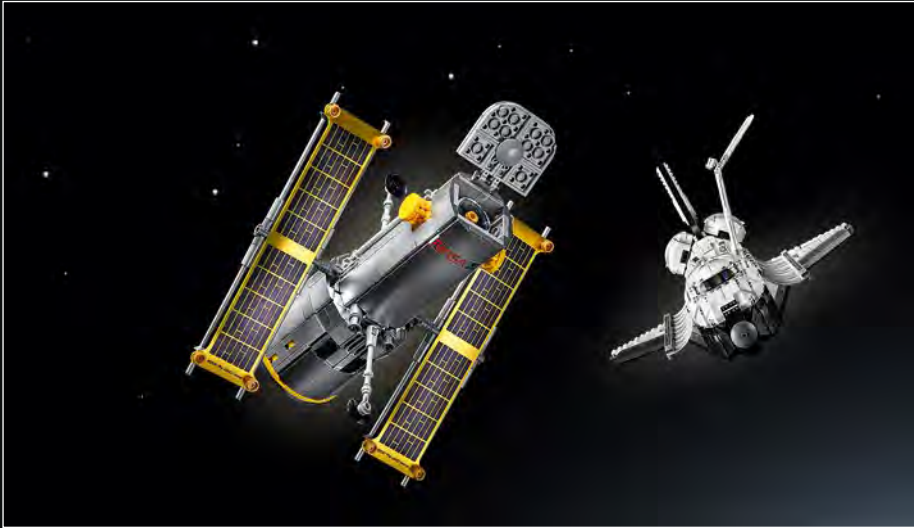
HUBBLE SPACE TELESCOPE

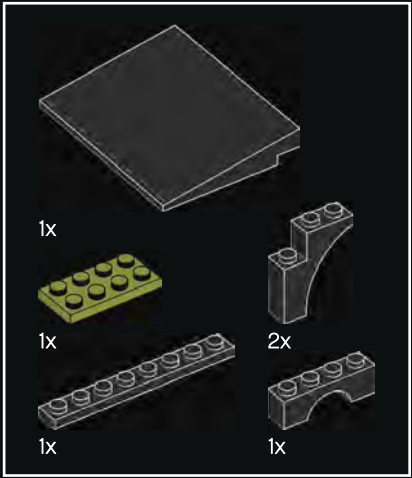
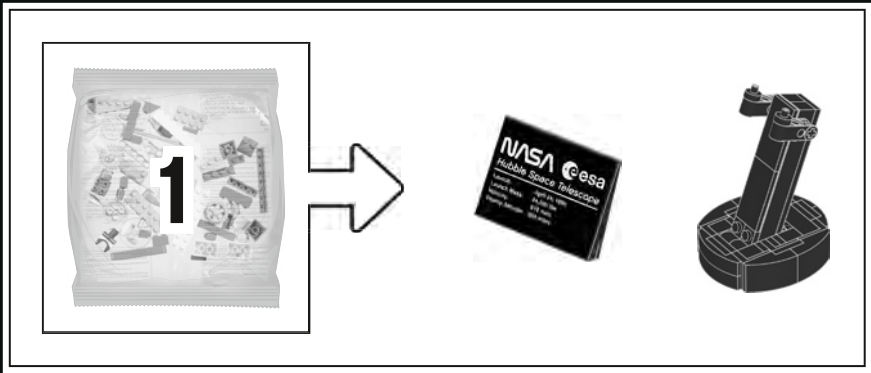
The Hubble Space Telescope was created in a collaboration between NASA and its European partner – the European Space Agency (ESA). From its vantage point approximately 550 km (342 miles) above the Earth, the 13.2 m (43.5 ft.) long and 4.2 m (14 ft.) wide telescope can detect light with 'eyes' currently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



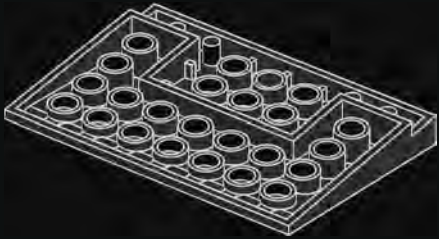
THE FIRST MAJOR OBSERVATORY IN SPACE

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.

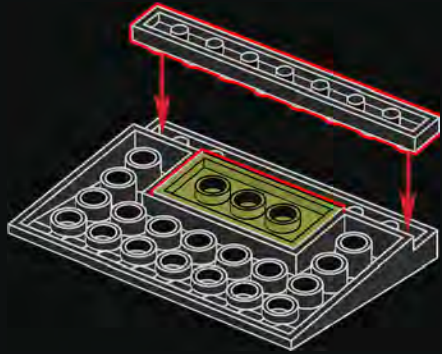




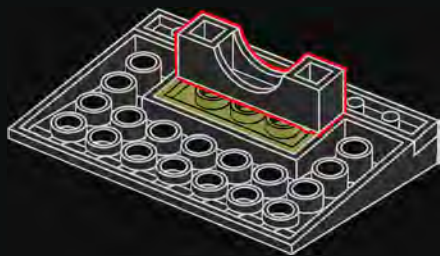
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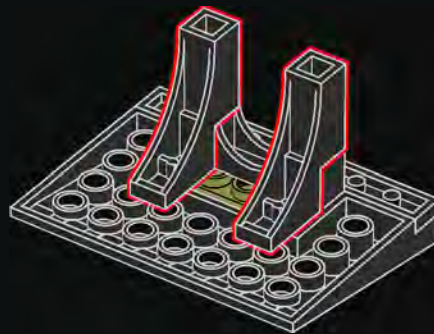
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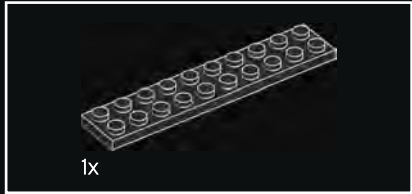
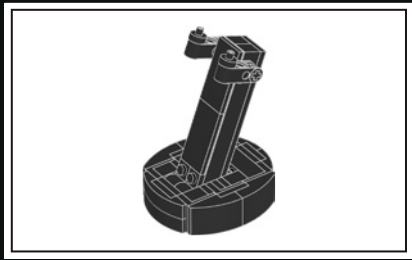


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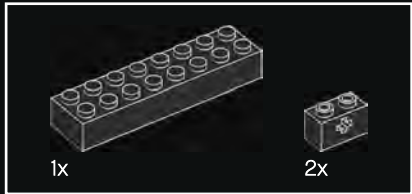
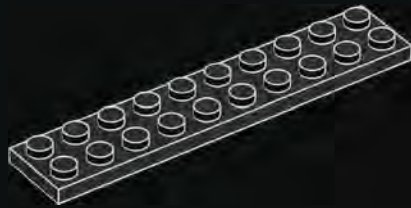


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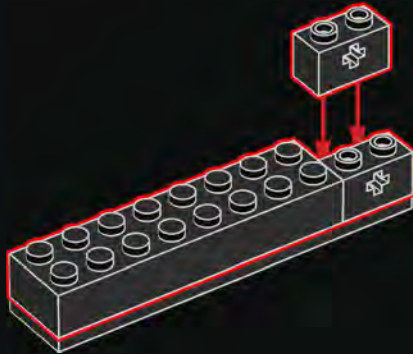




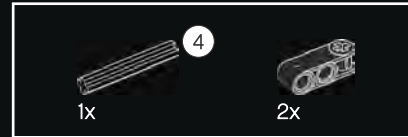
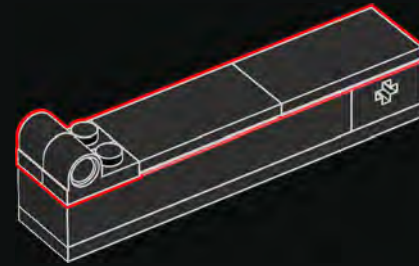
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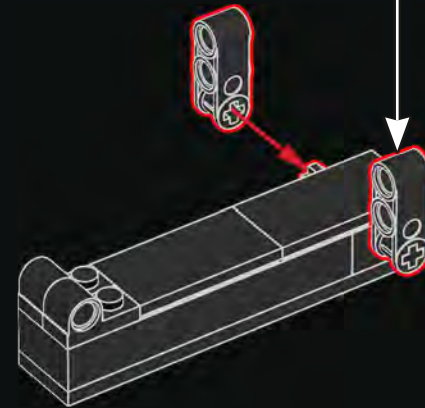
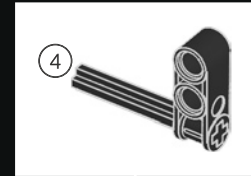
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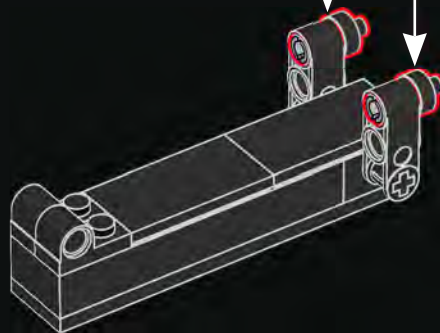


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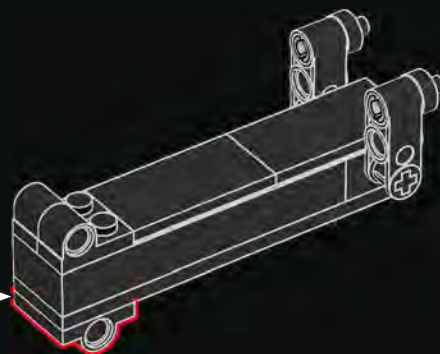




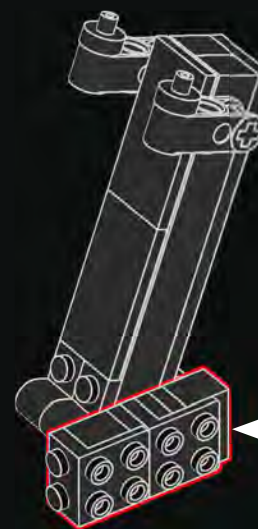
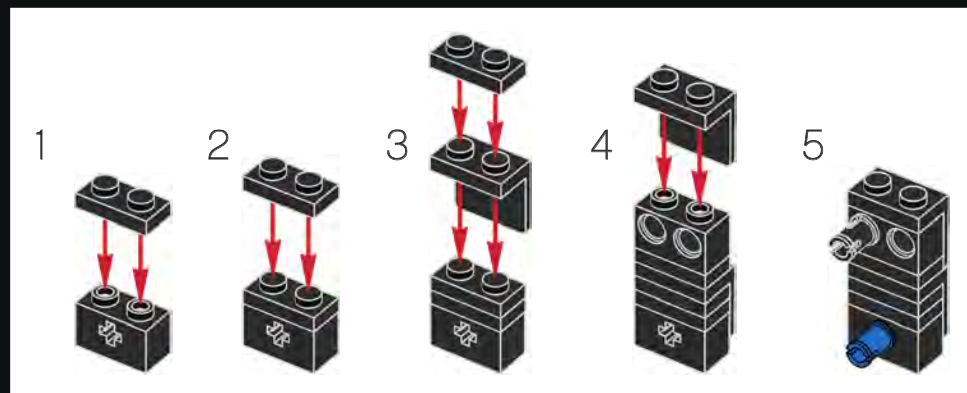
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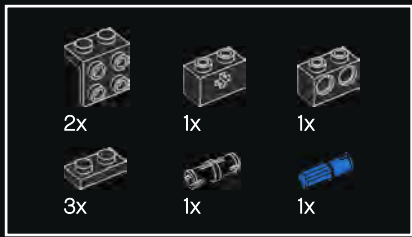


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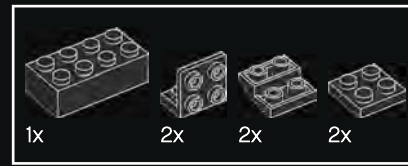
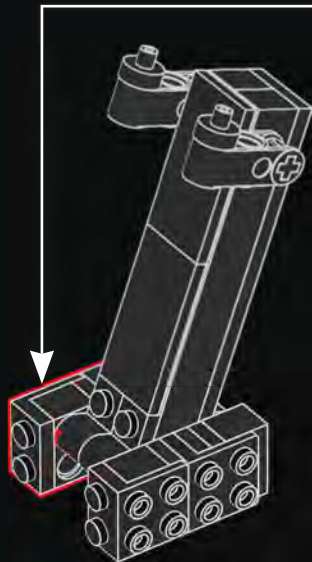
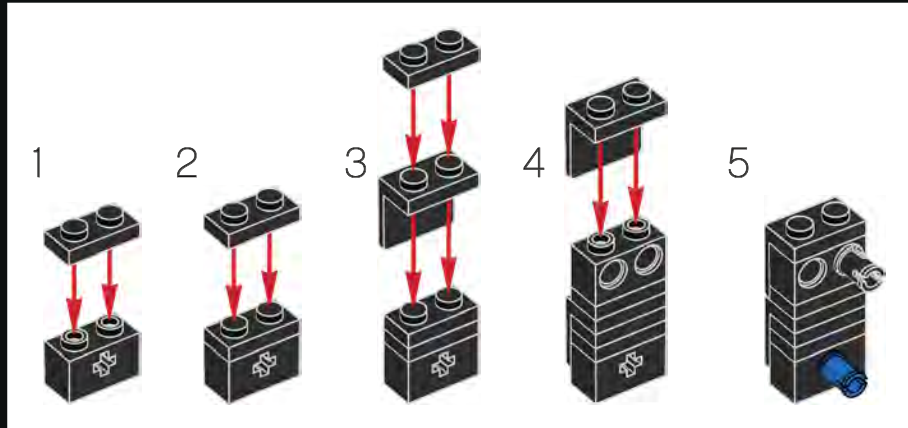


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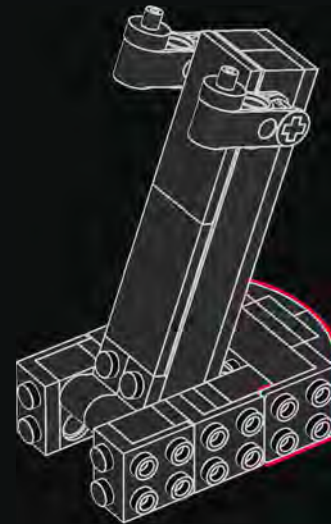
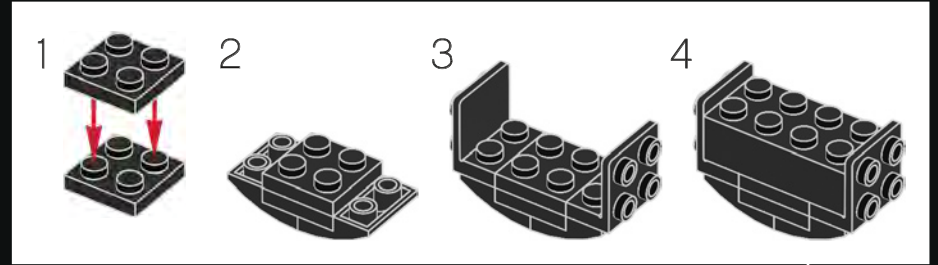




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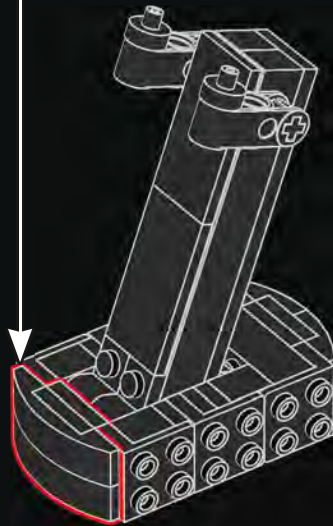
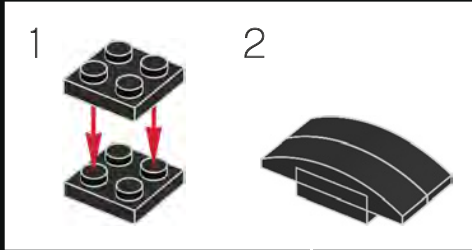


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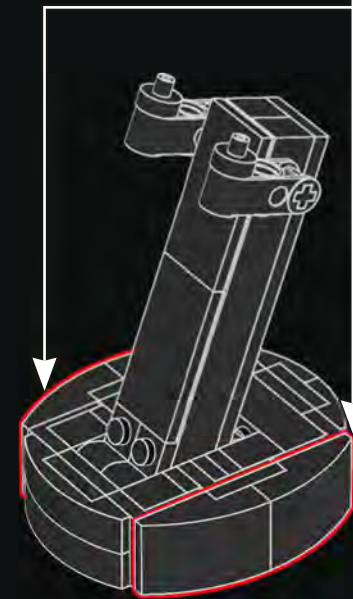
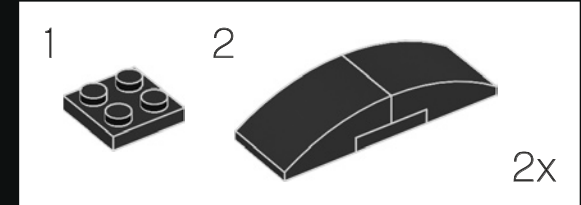




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DID YOU KNOW?

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



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1



2x

2



1x

3



1x

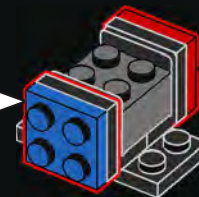
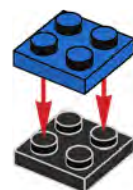


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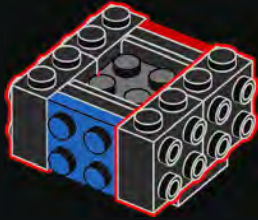
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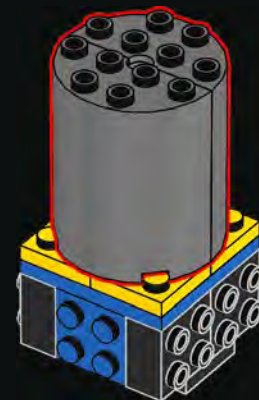
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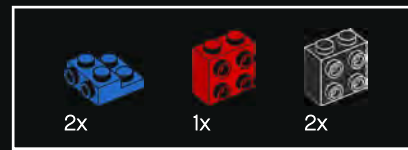
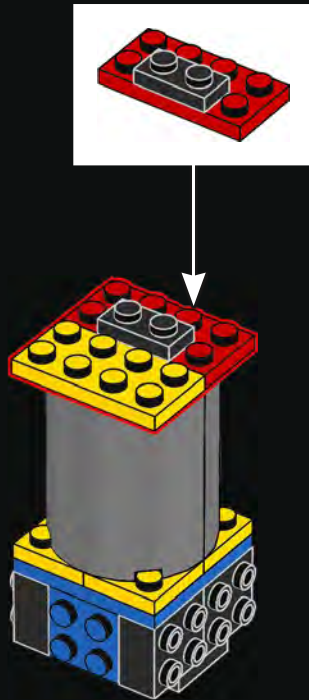


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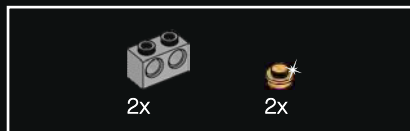


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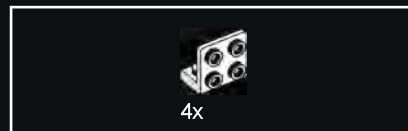
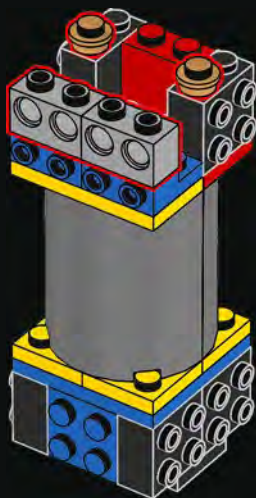


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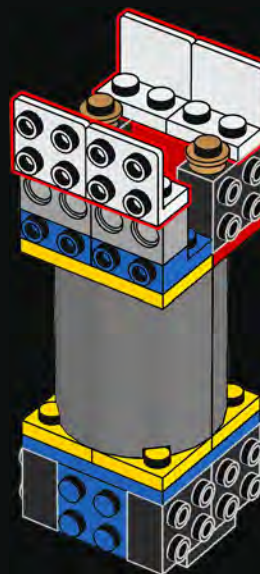




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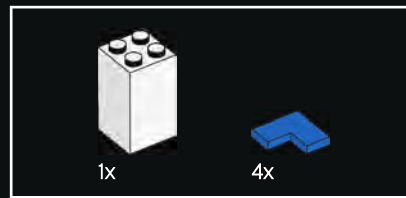
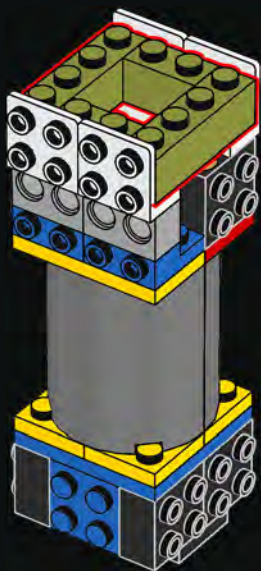


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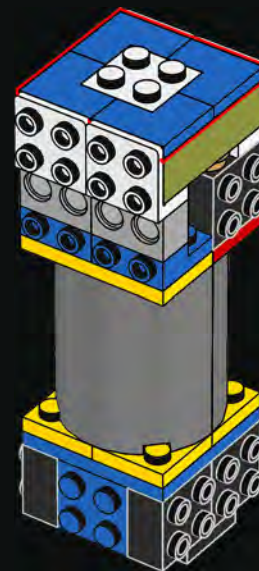


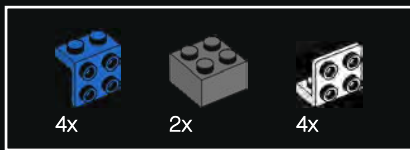


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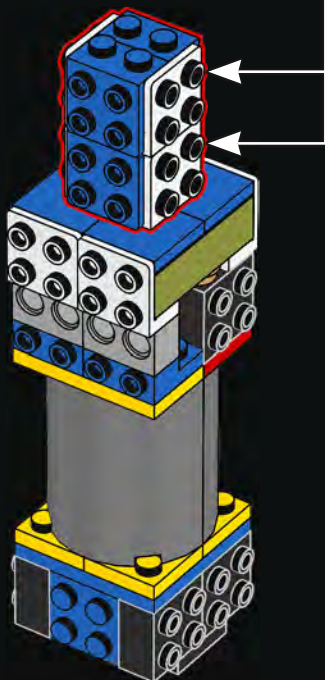
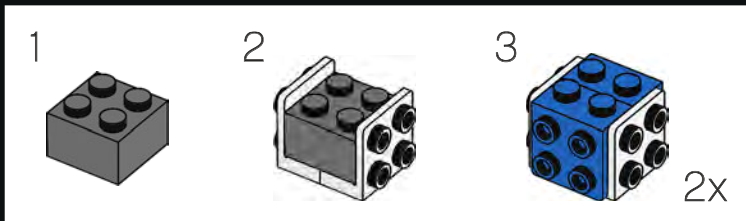


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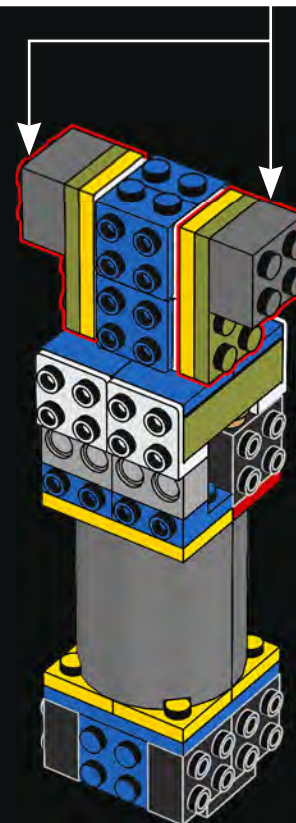
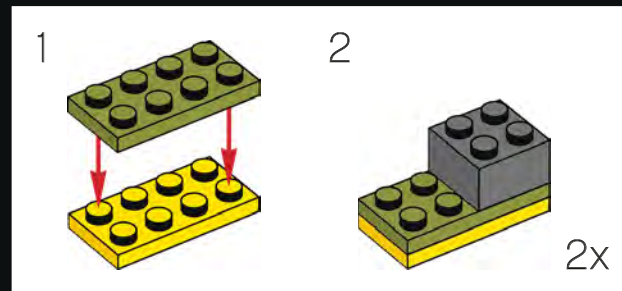


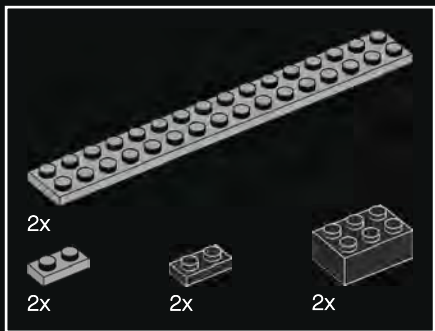


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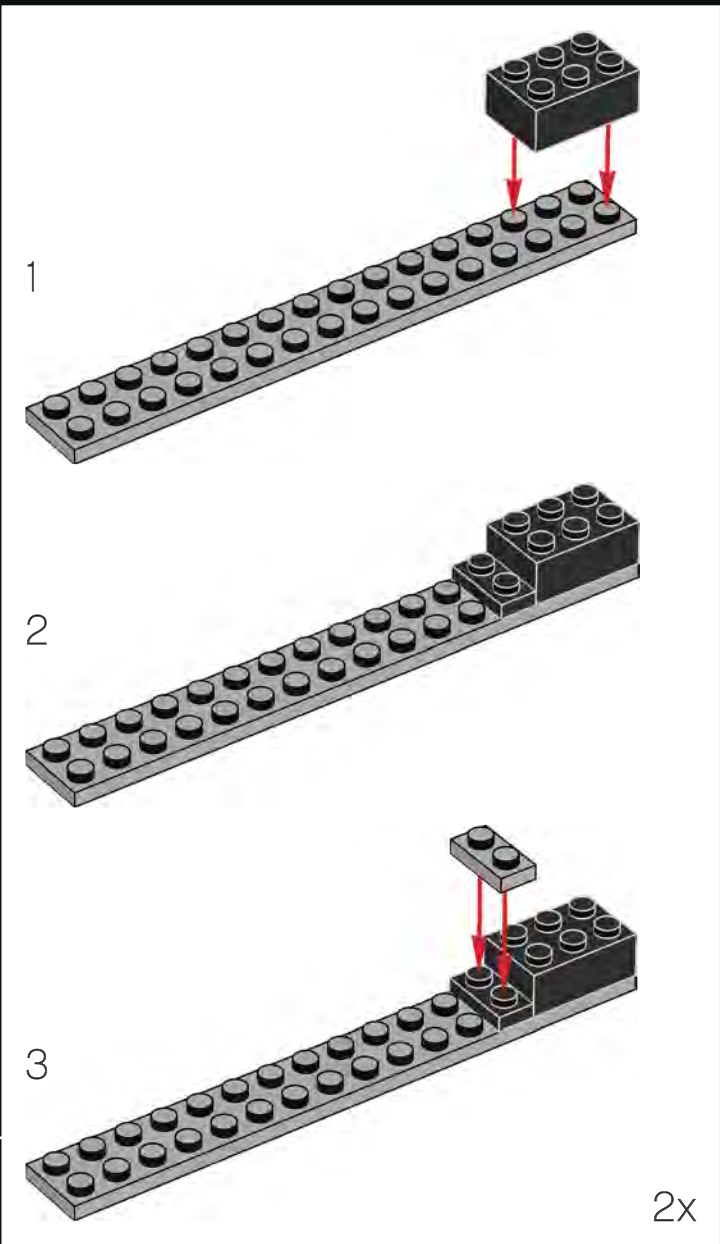
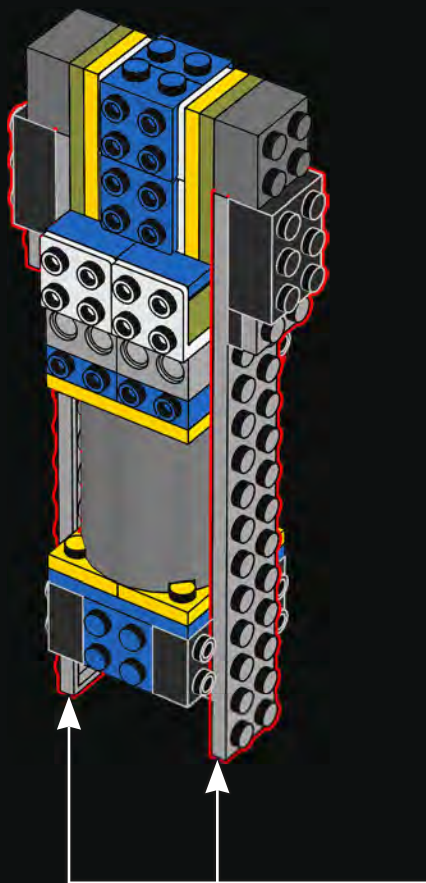


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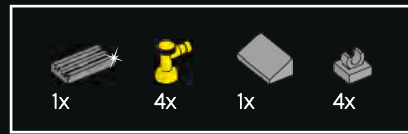
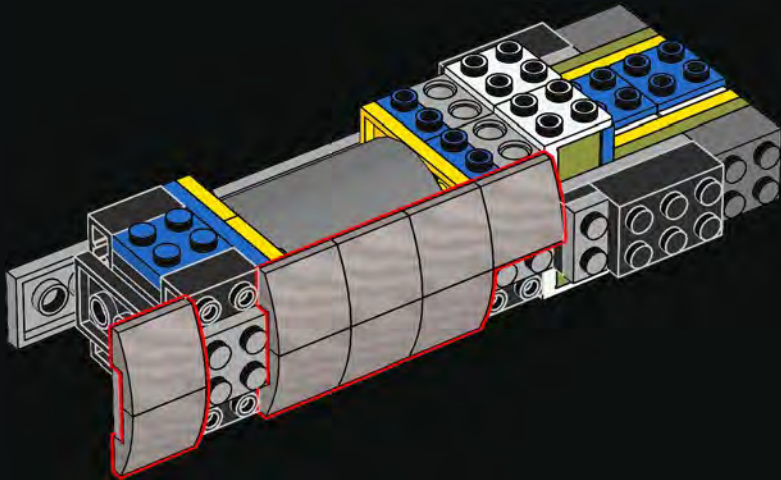


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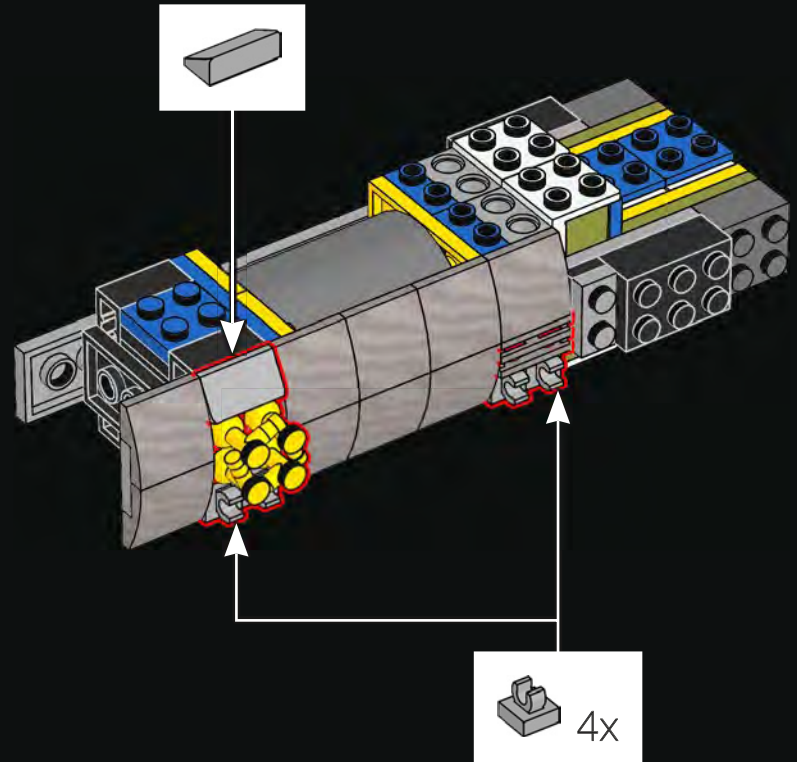




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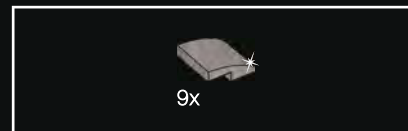
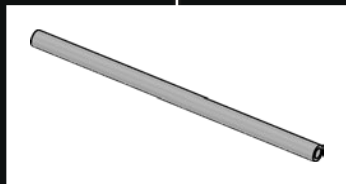
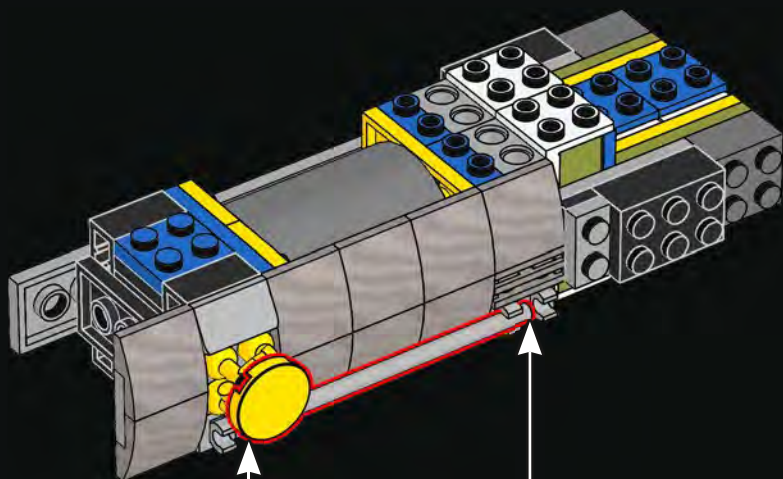


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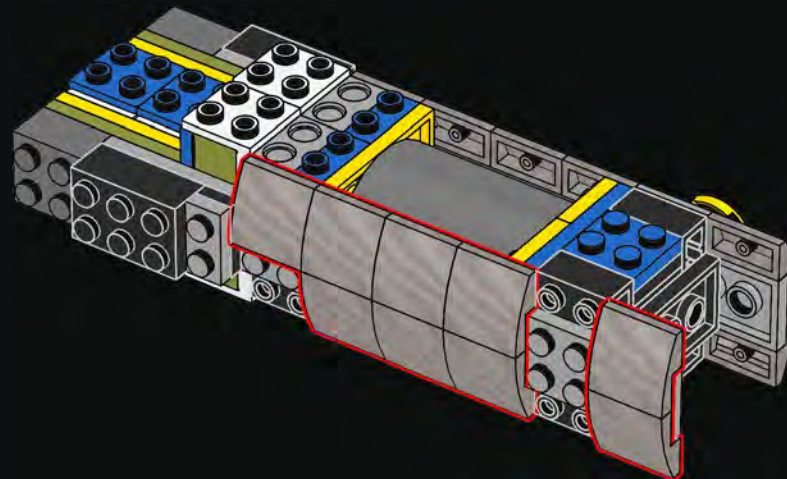




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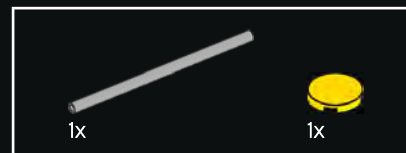
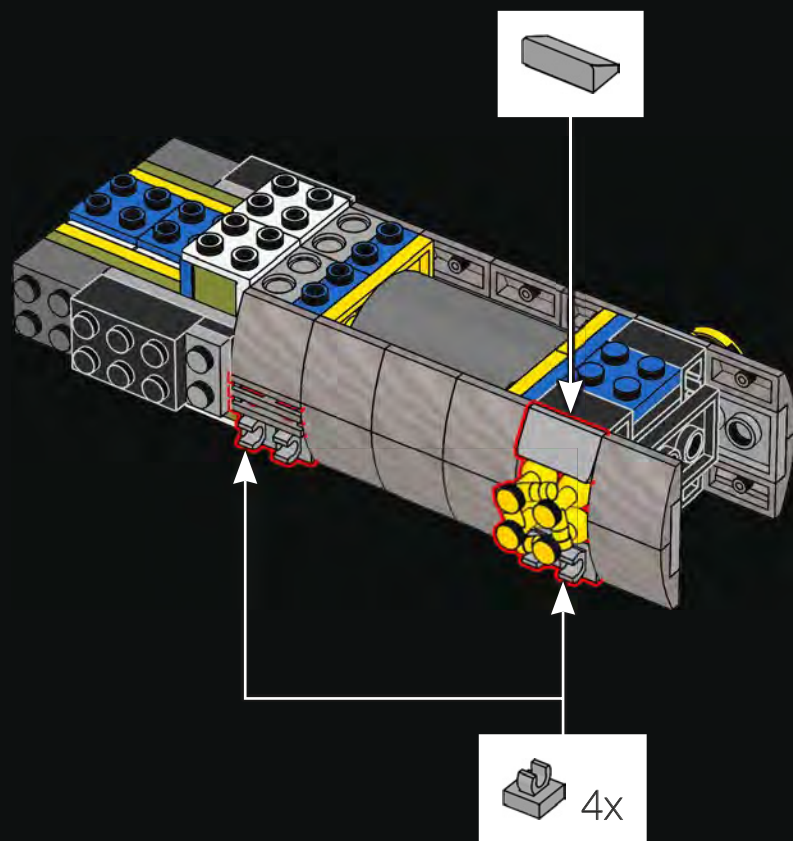


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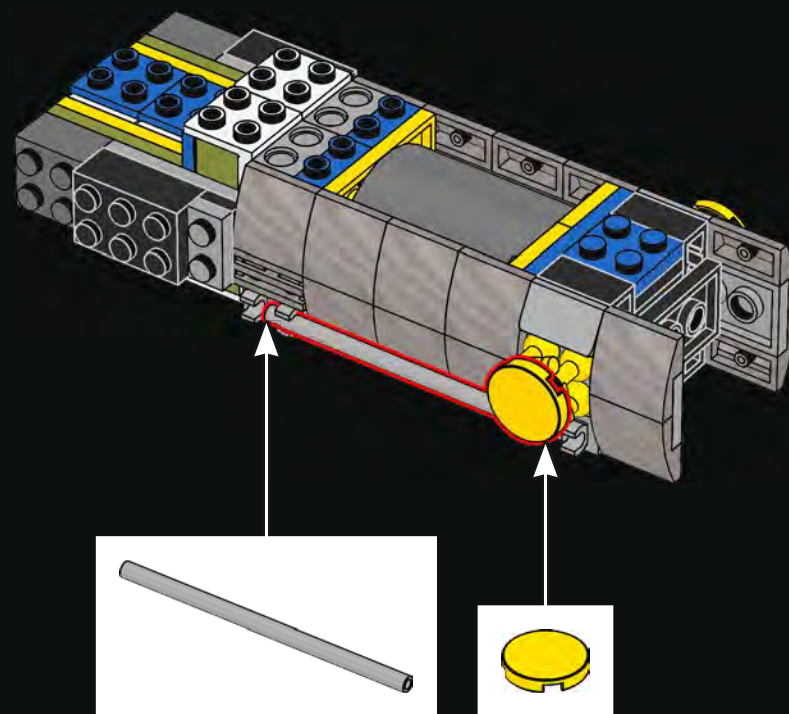


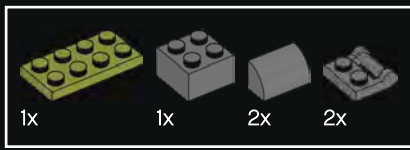


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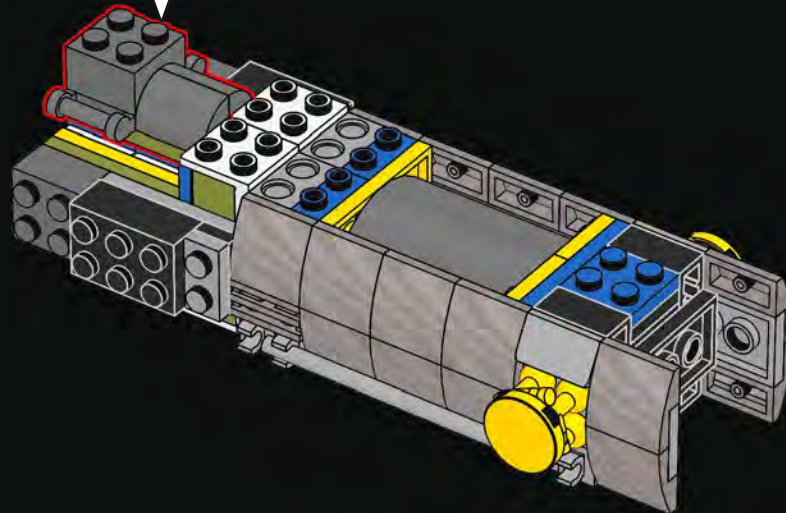
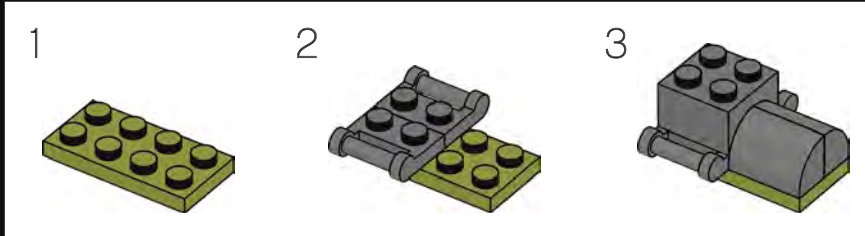


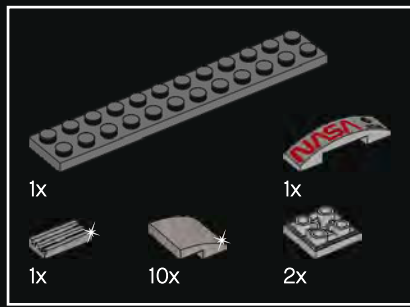
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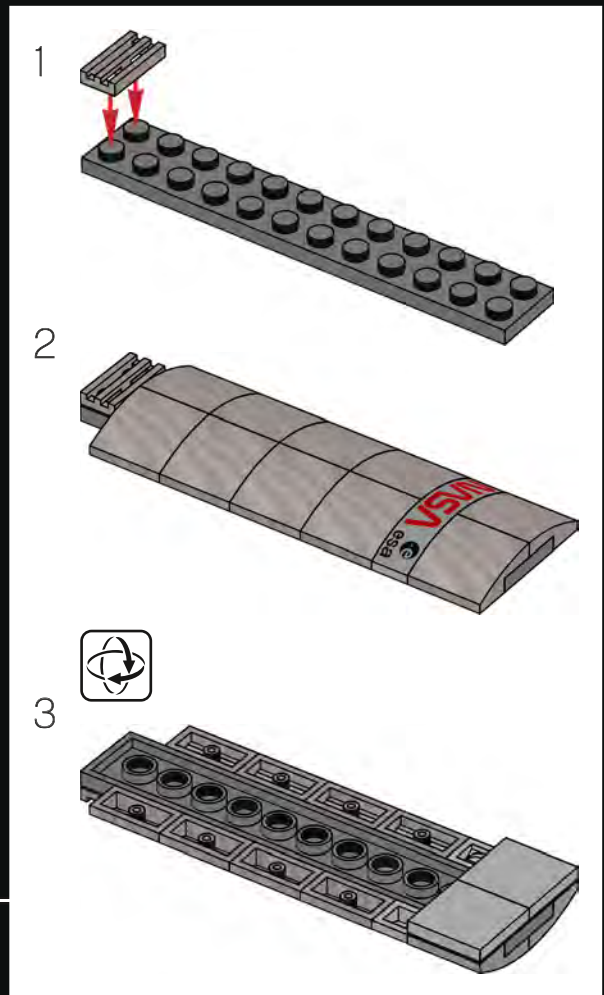
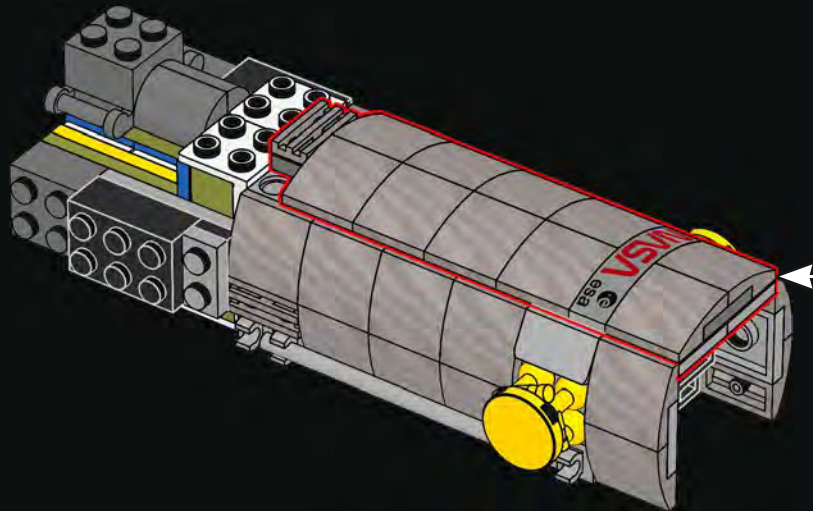


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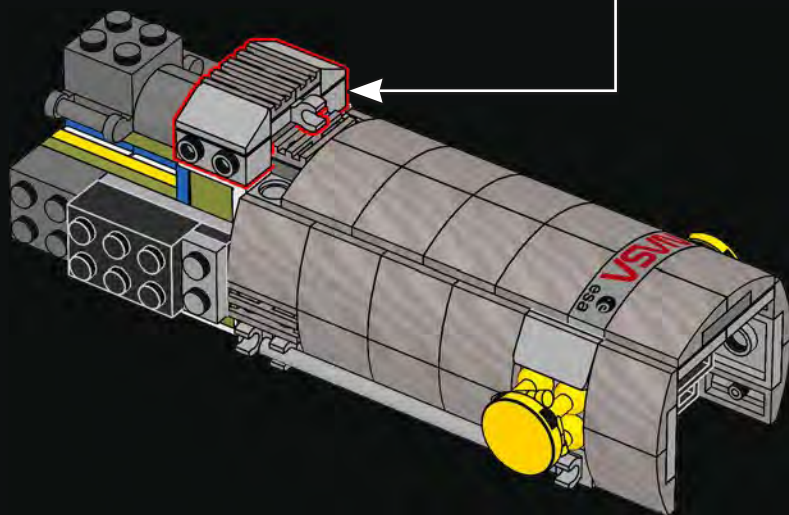
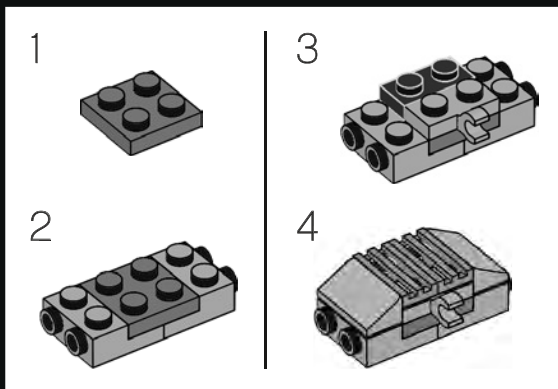


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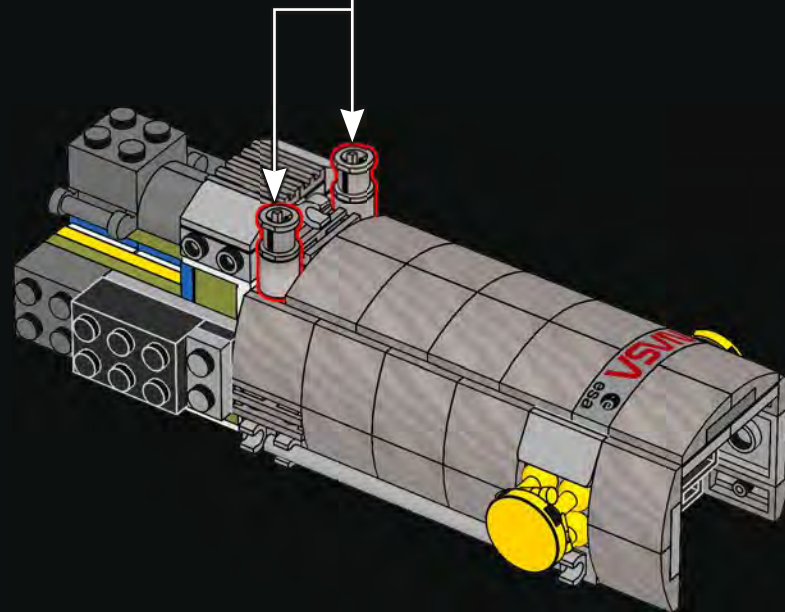
The space telescope was named after American astronomer Edwin Hubble (1889-1953).

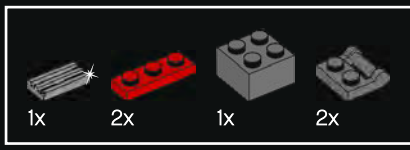


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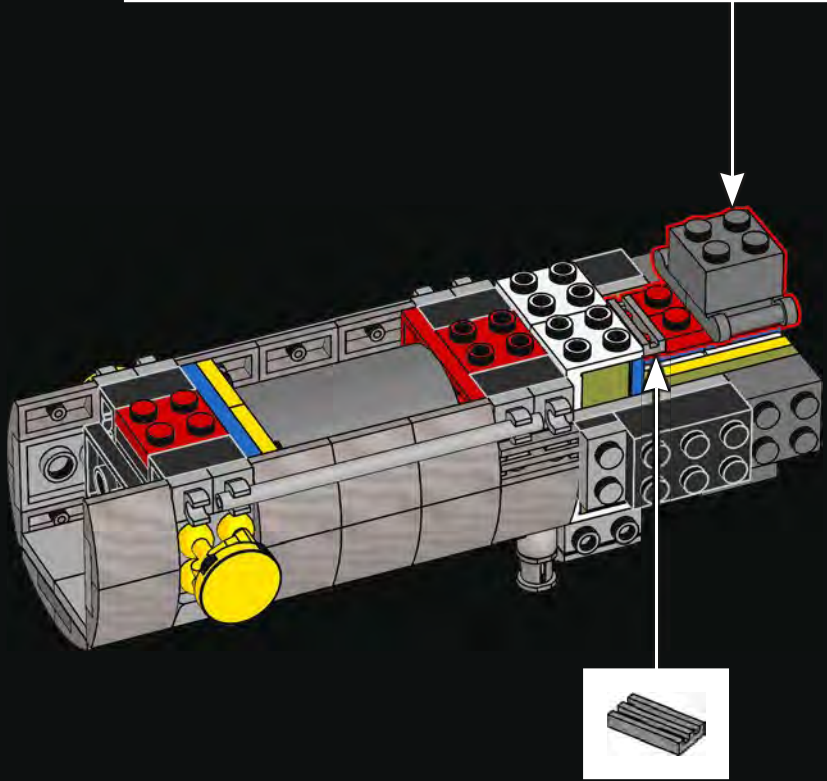
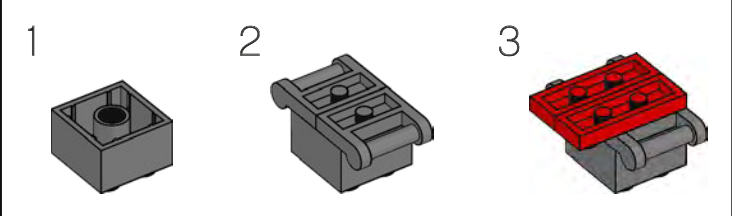


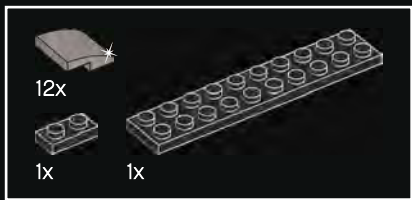
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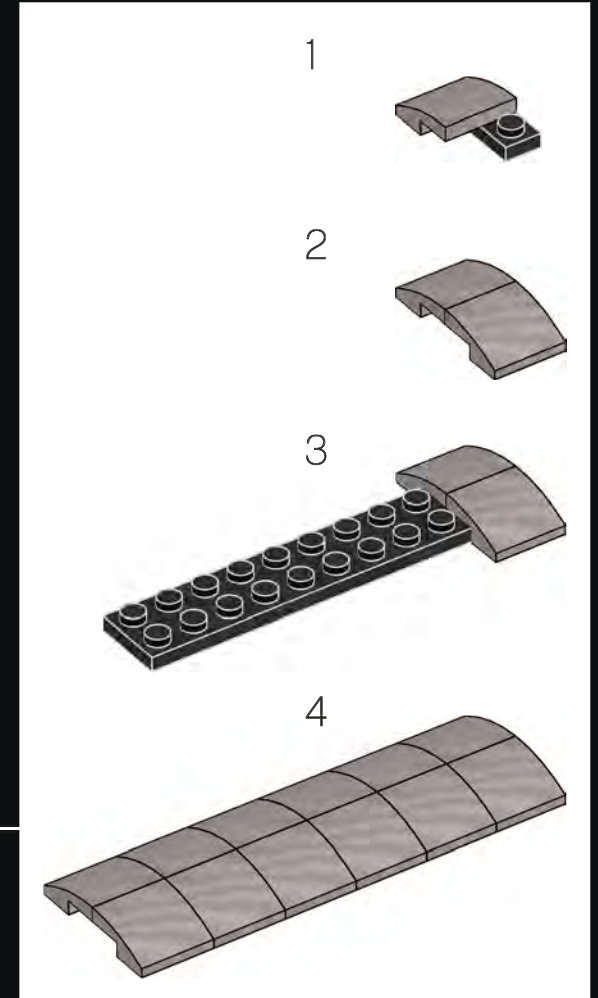
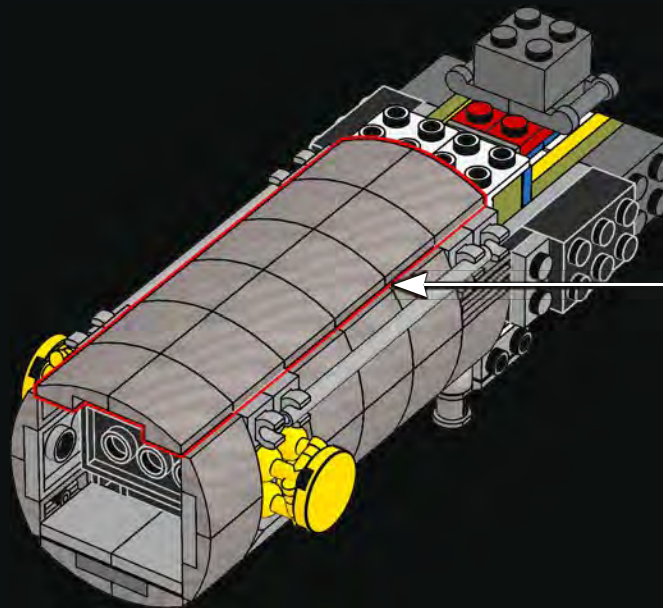


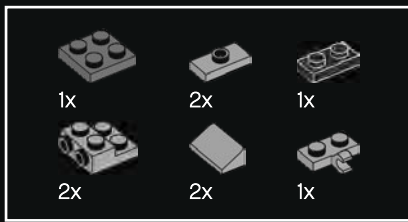
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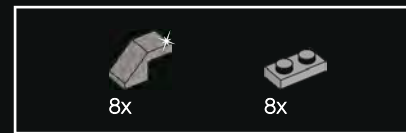
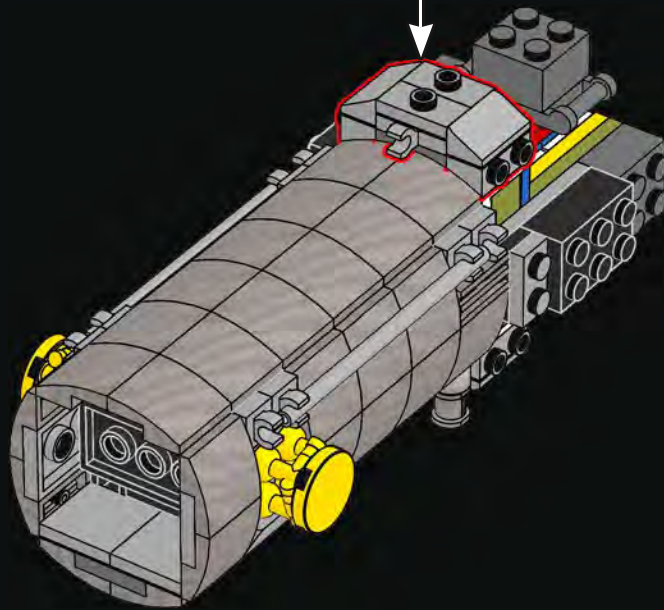
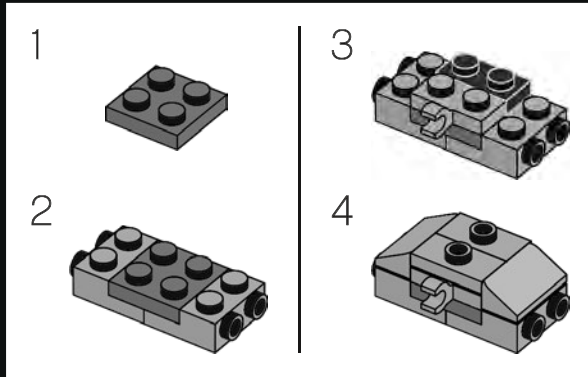


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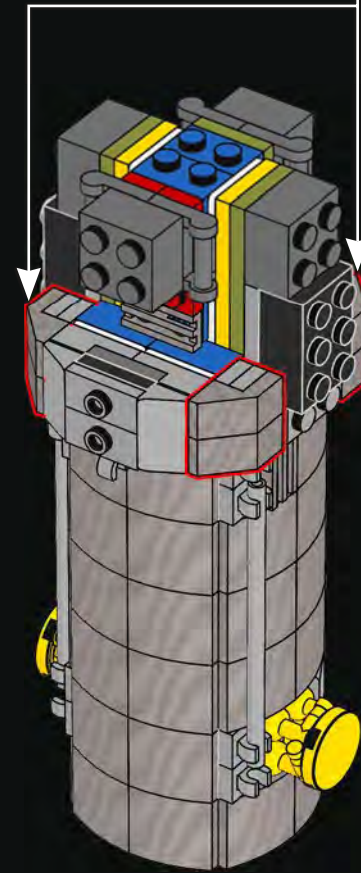
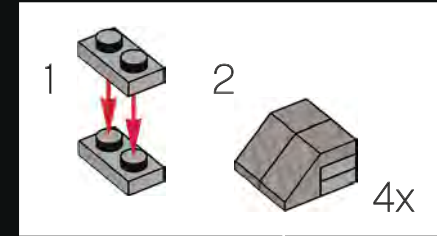




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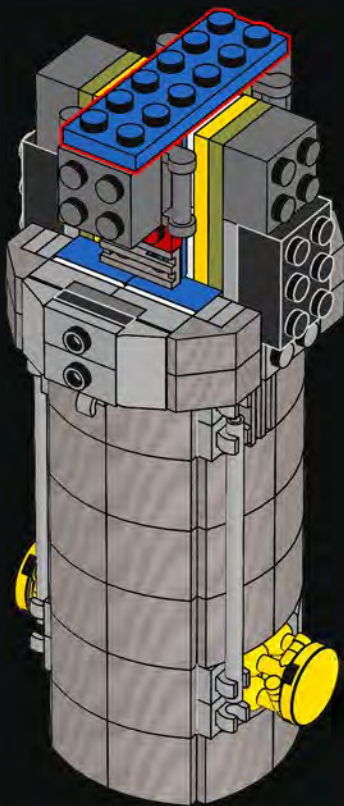


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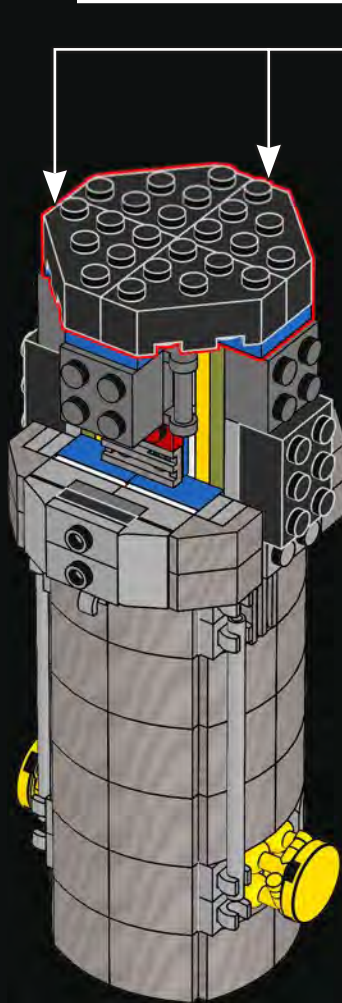
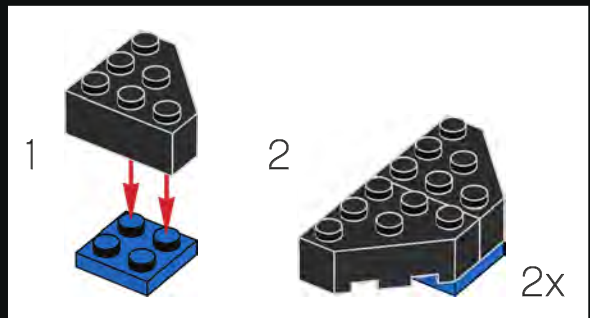




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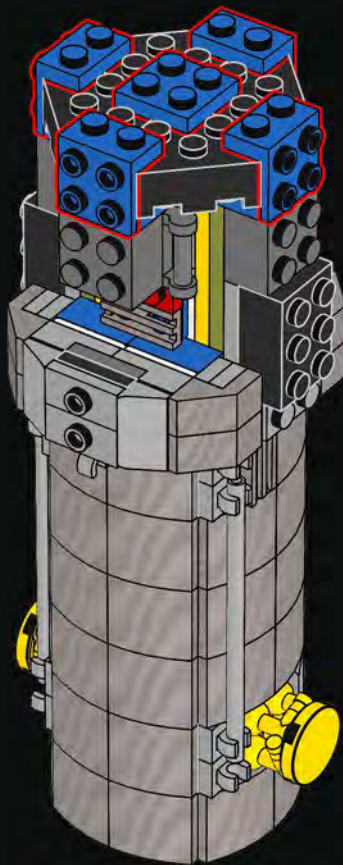


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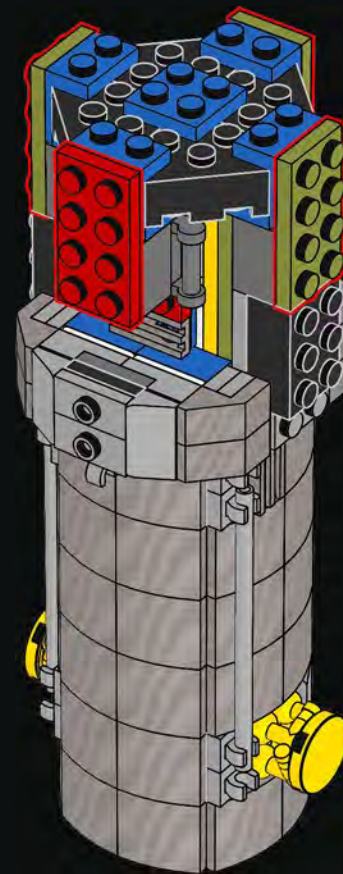


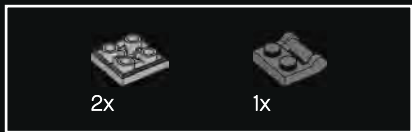


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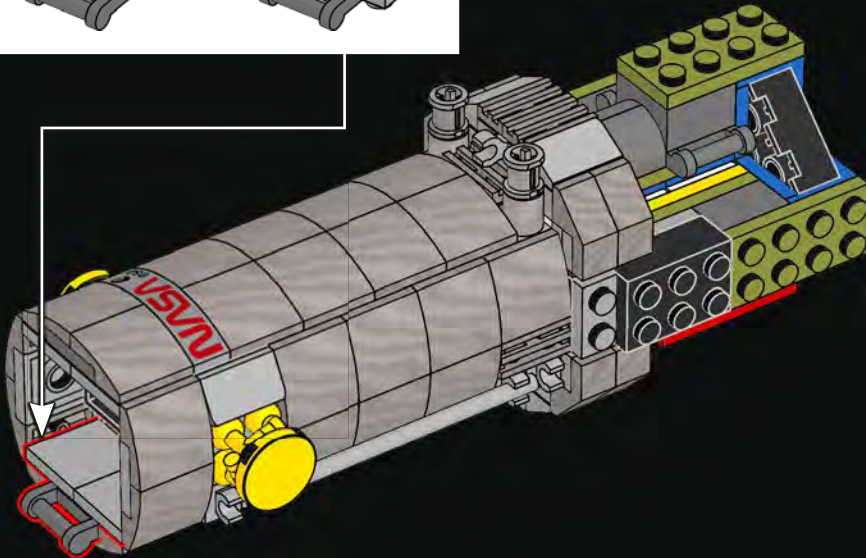
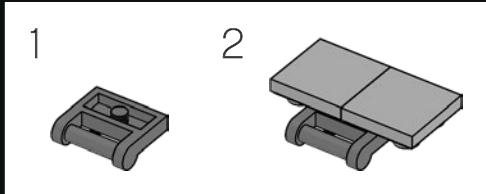


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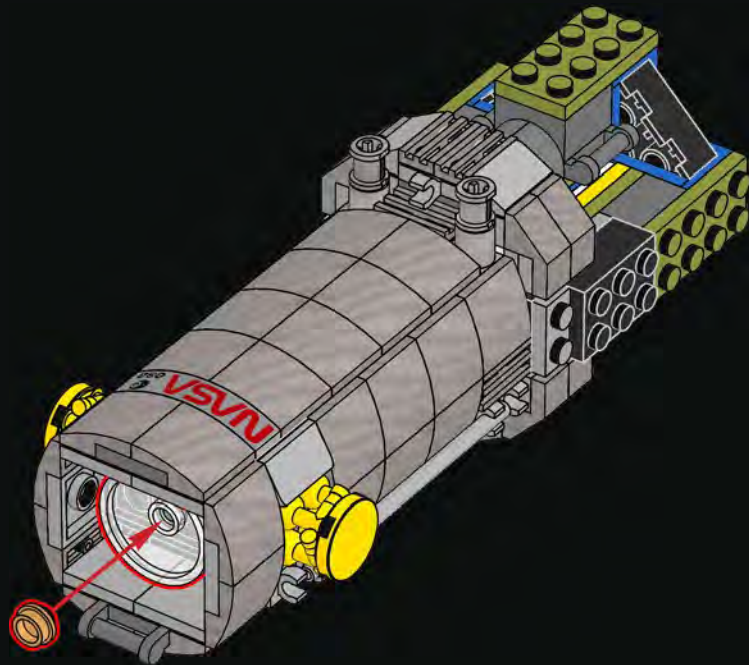


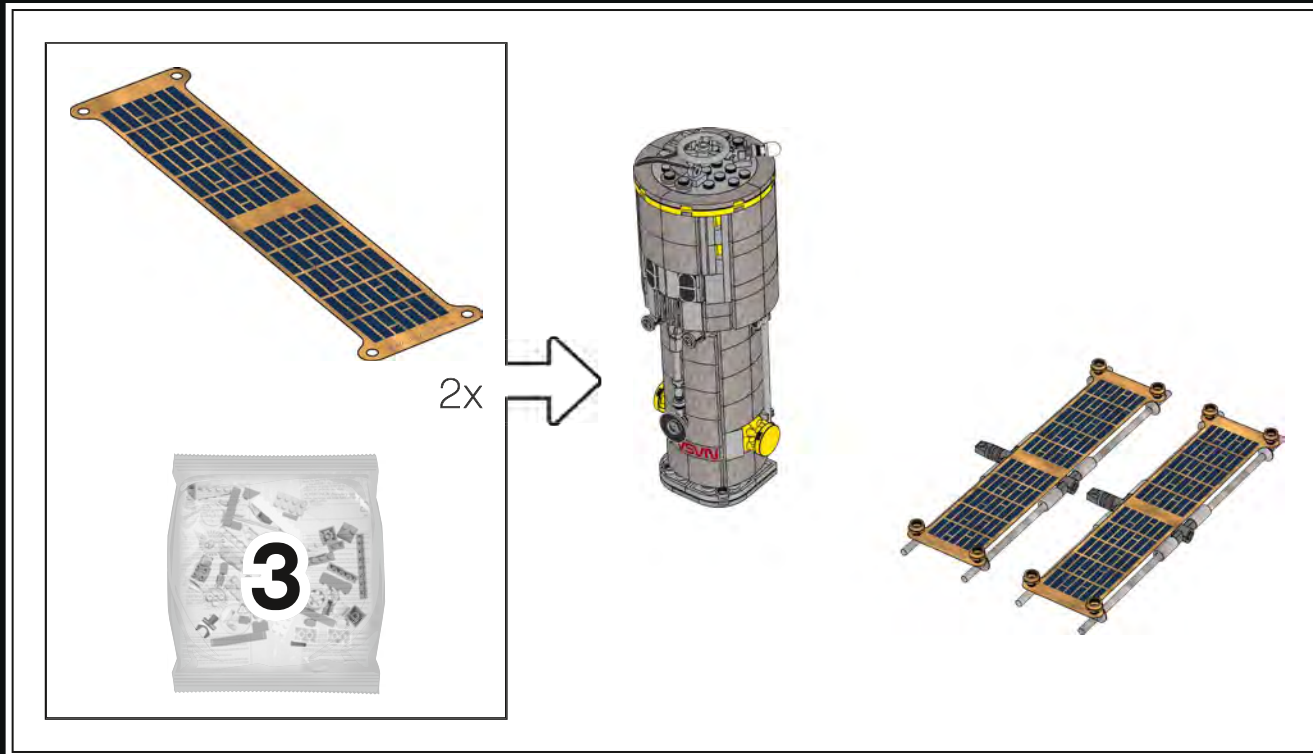


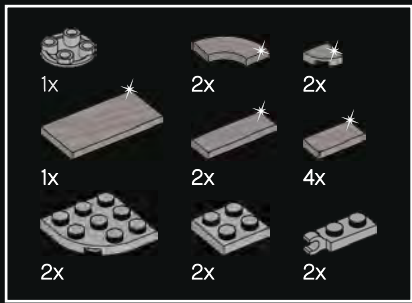
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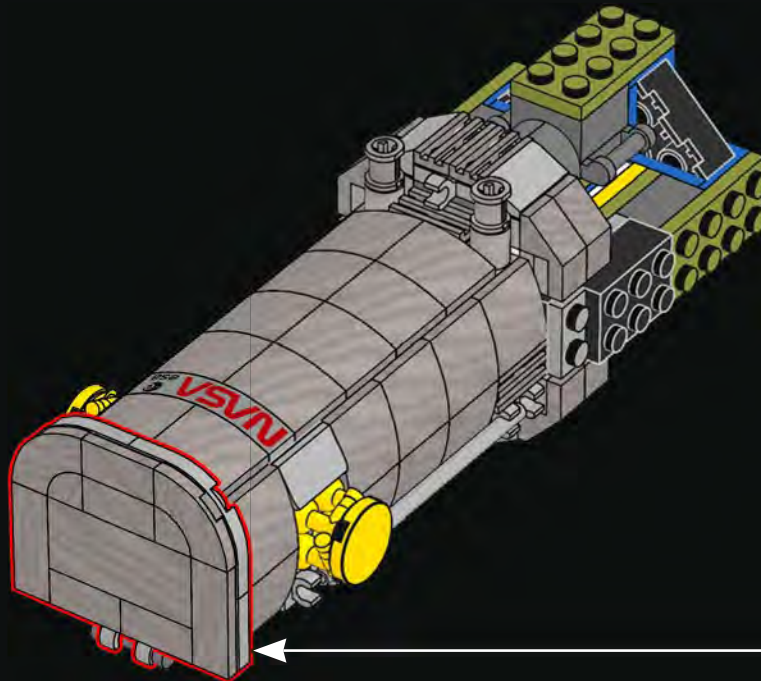
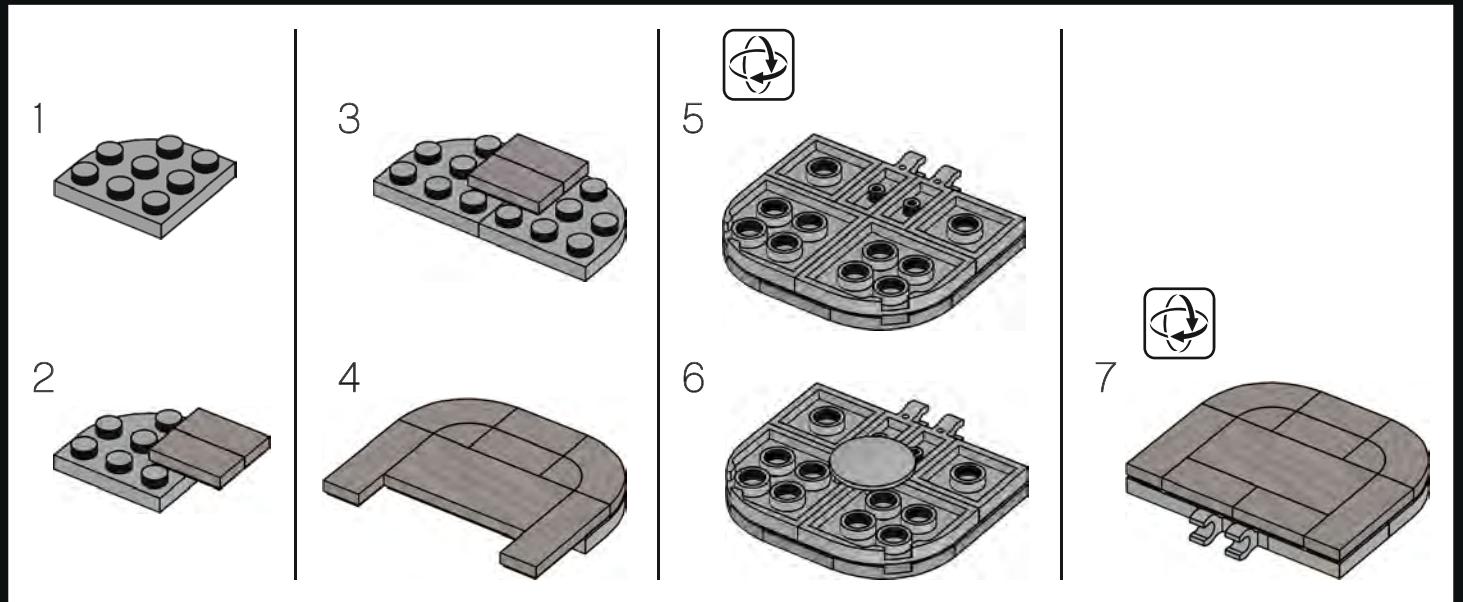
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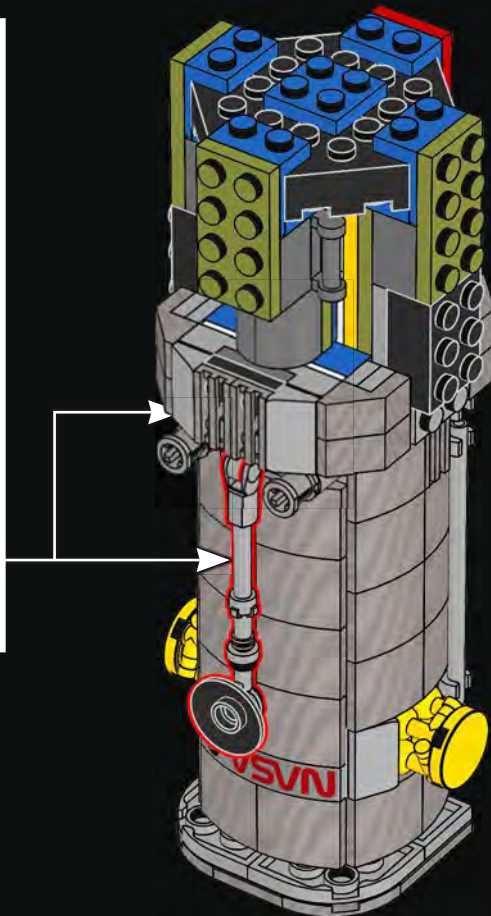
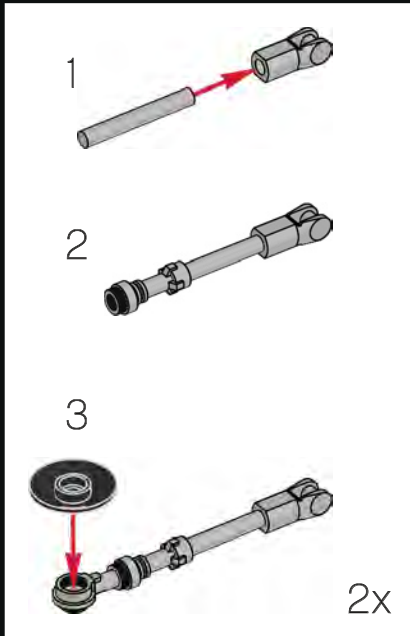


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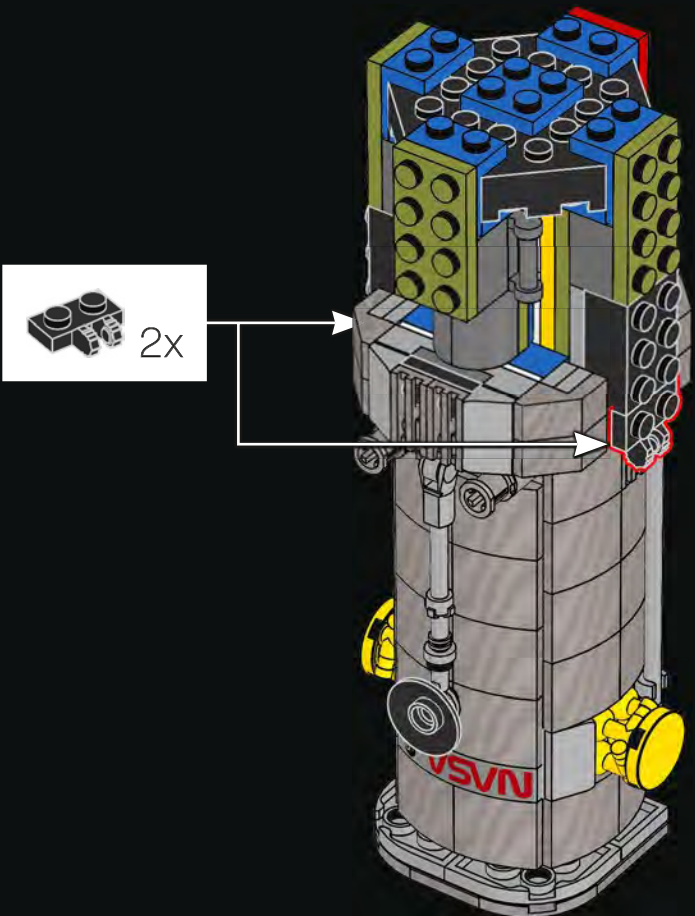


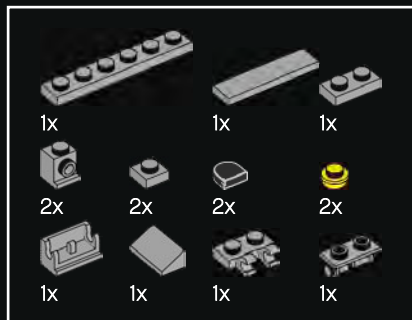


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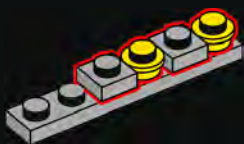


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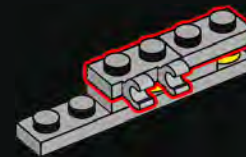
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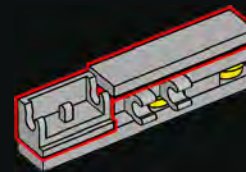
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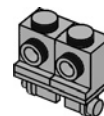
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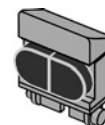
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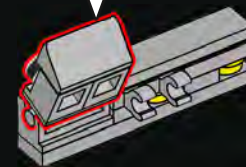
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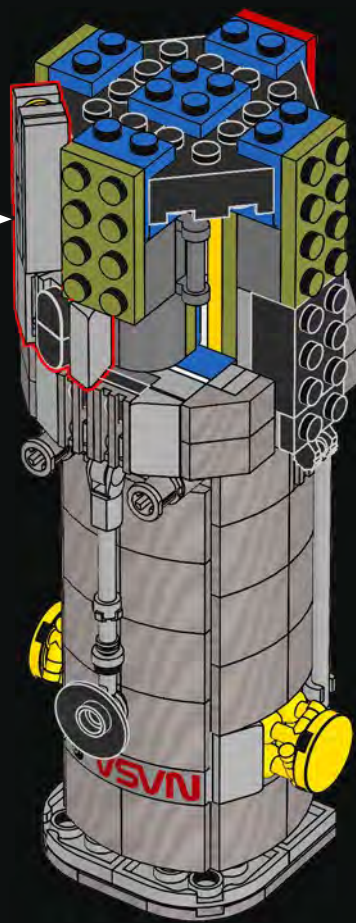


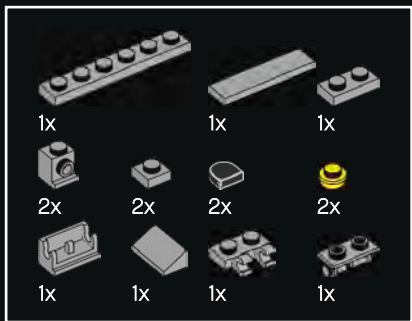
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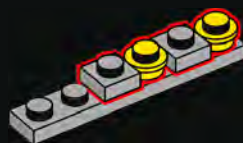


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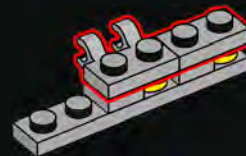
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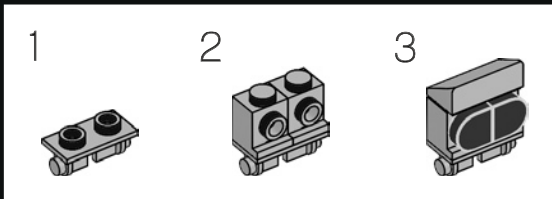
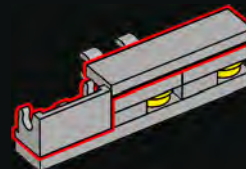
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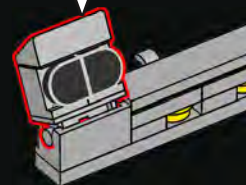
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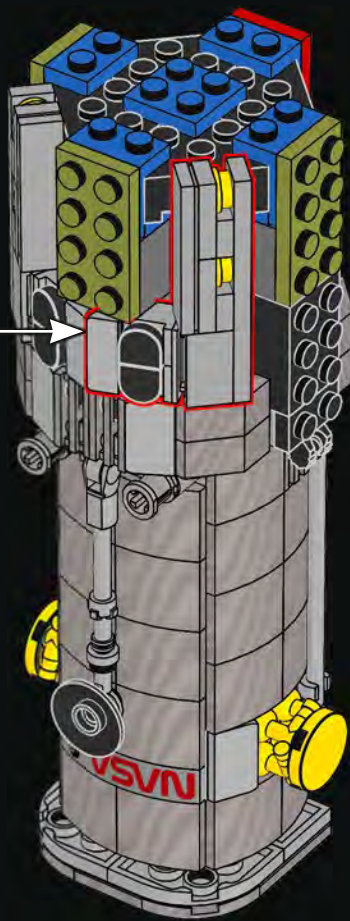


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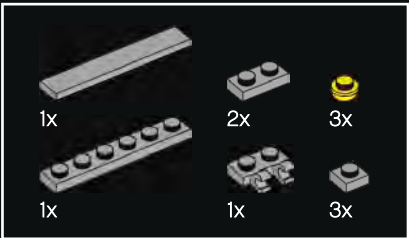
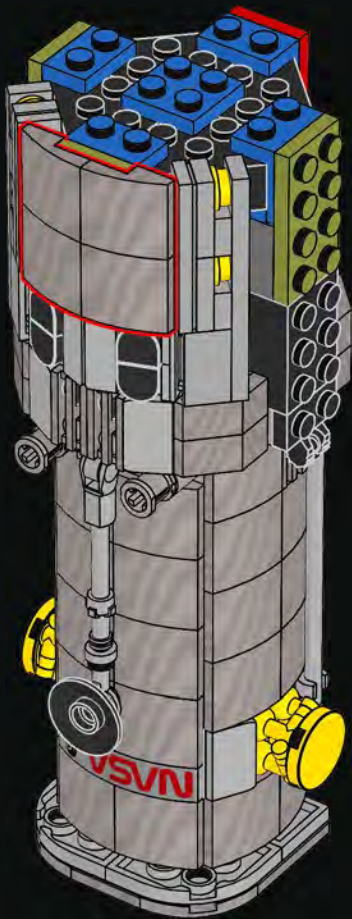
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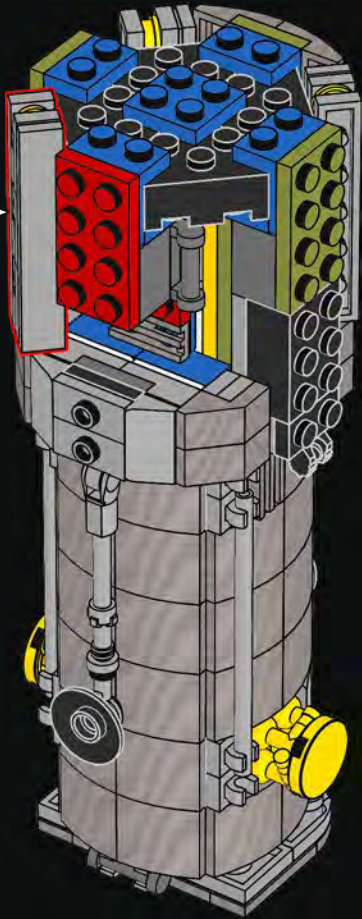
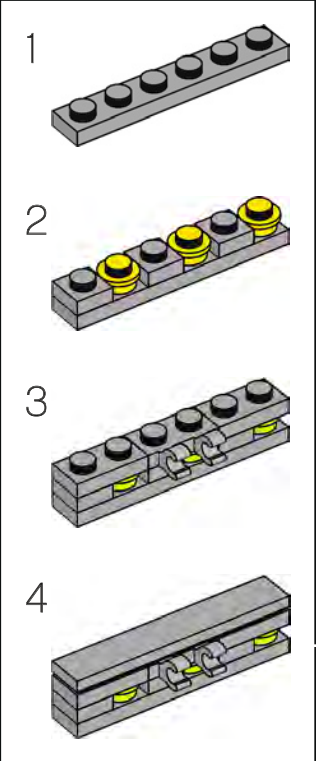


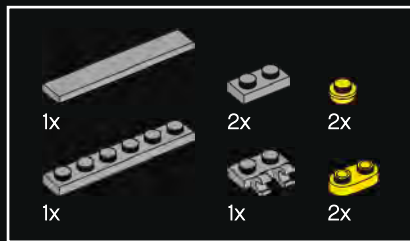


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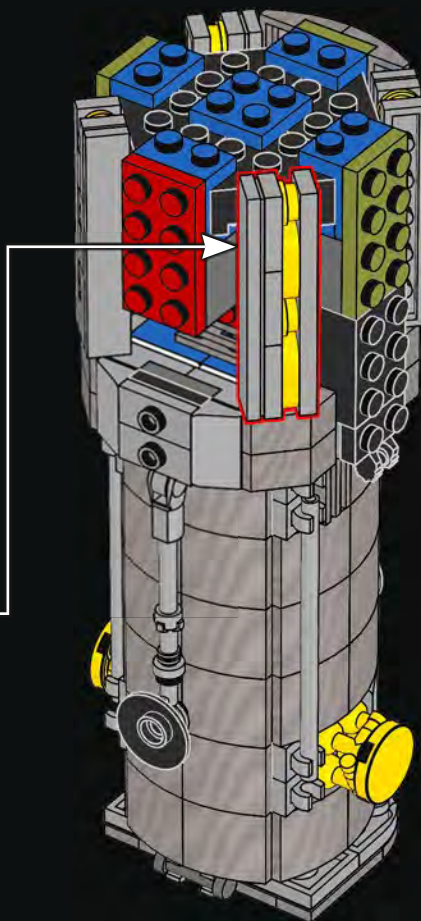
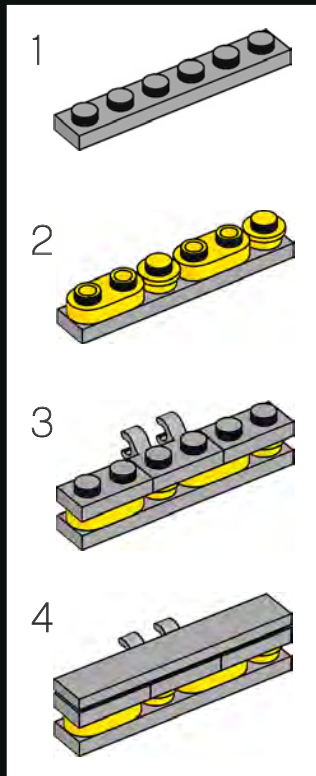


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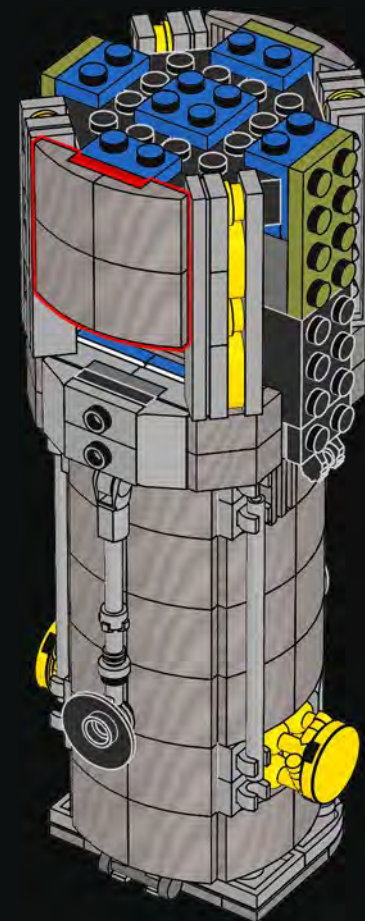


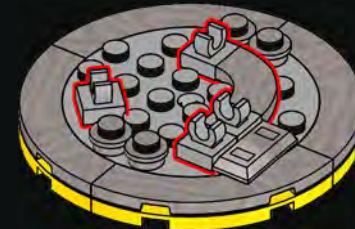
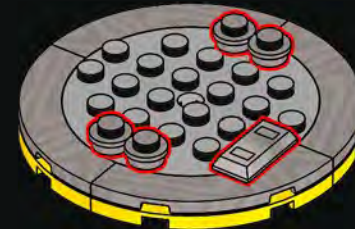


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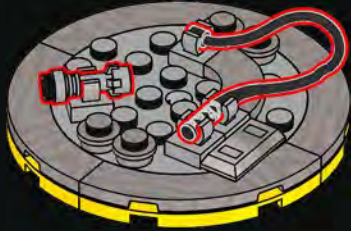


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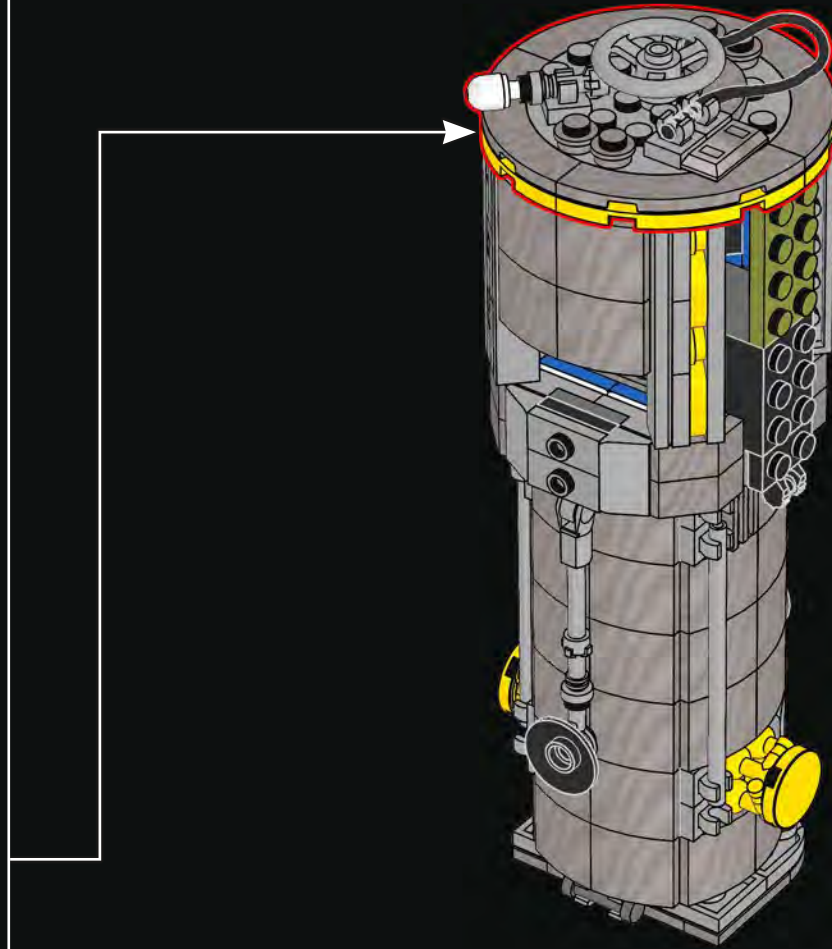
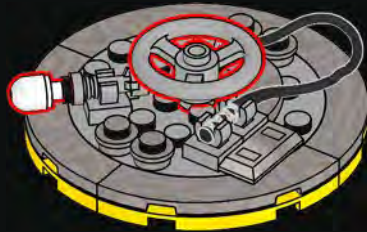




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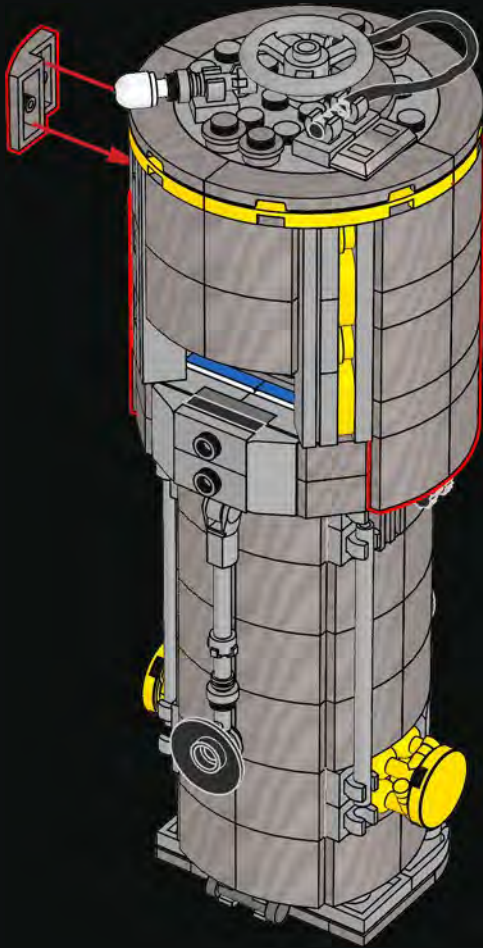


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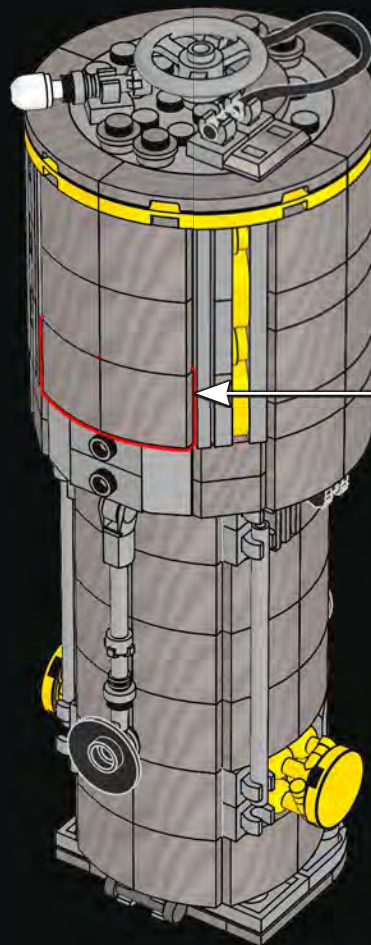
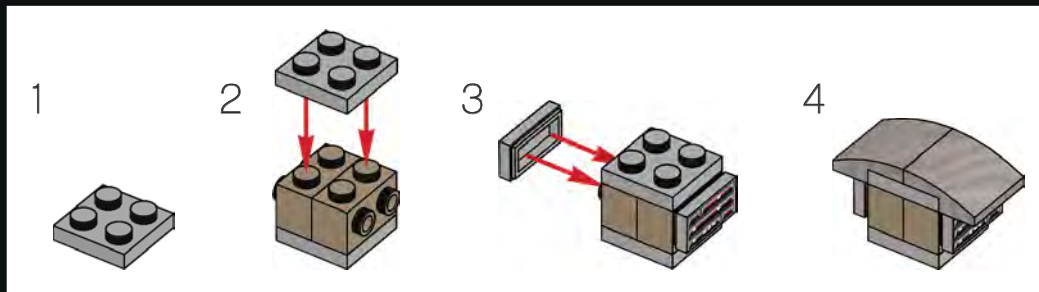


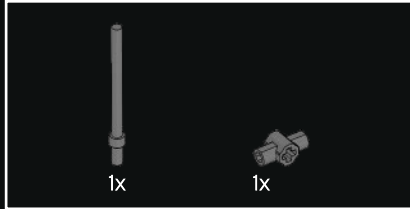
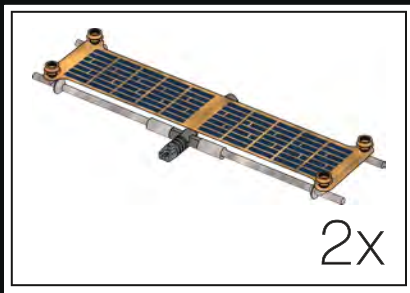
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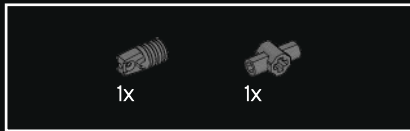


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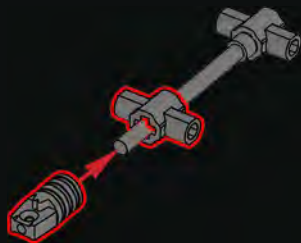




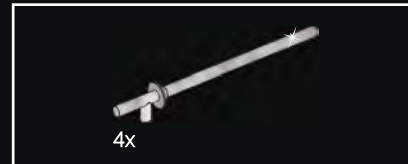
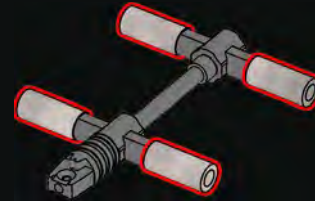
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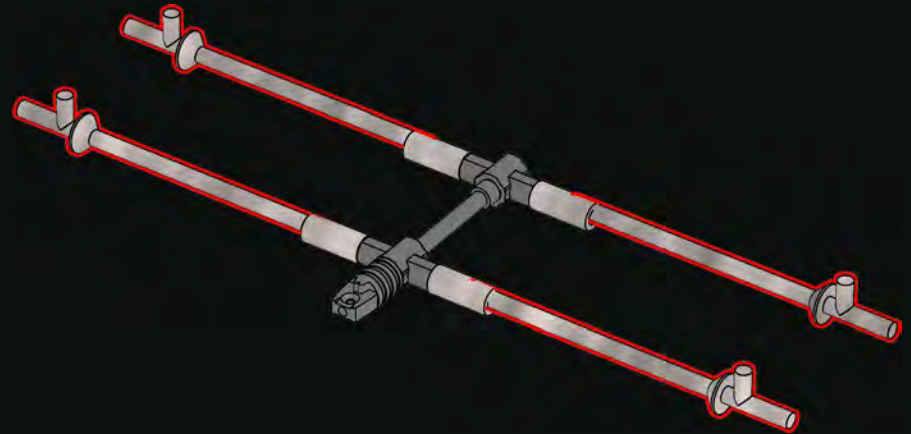
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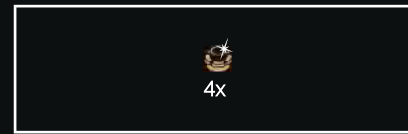
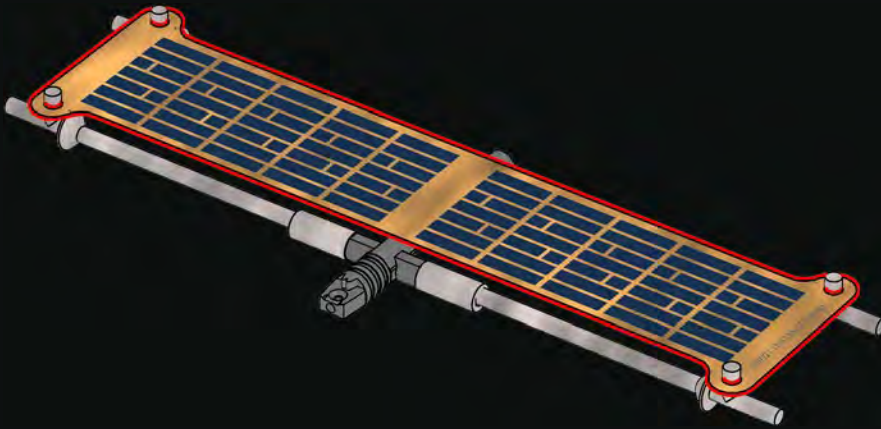


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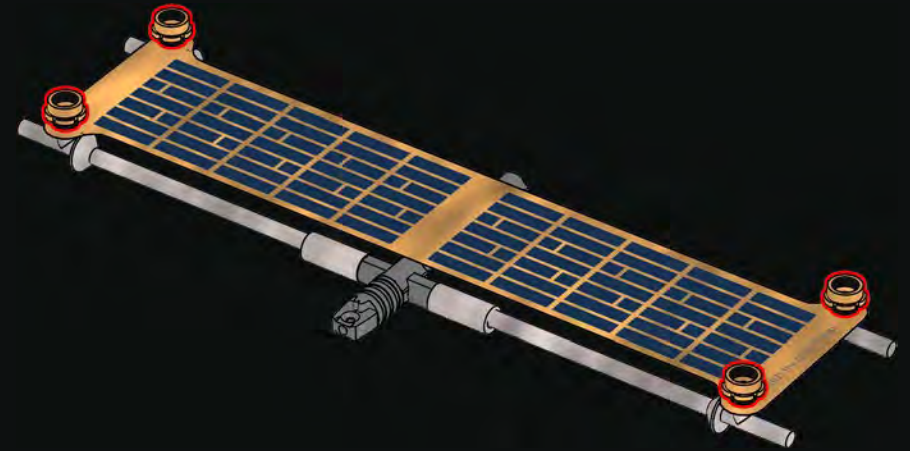




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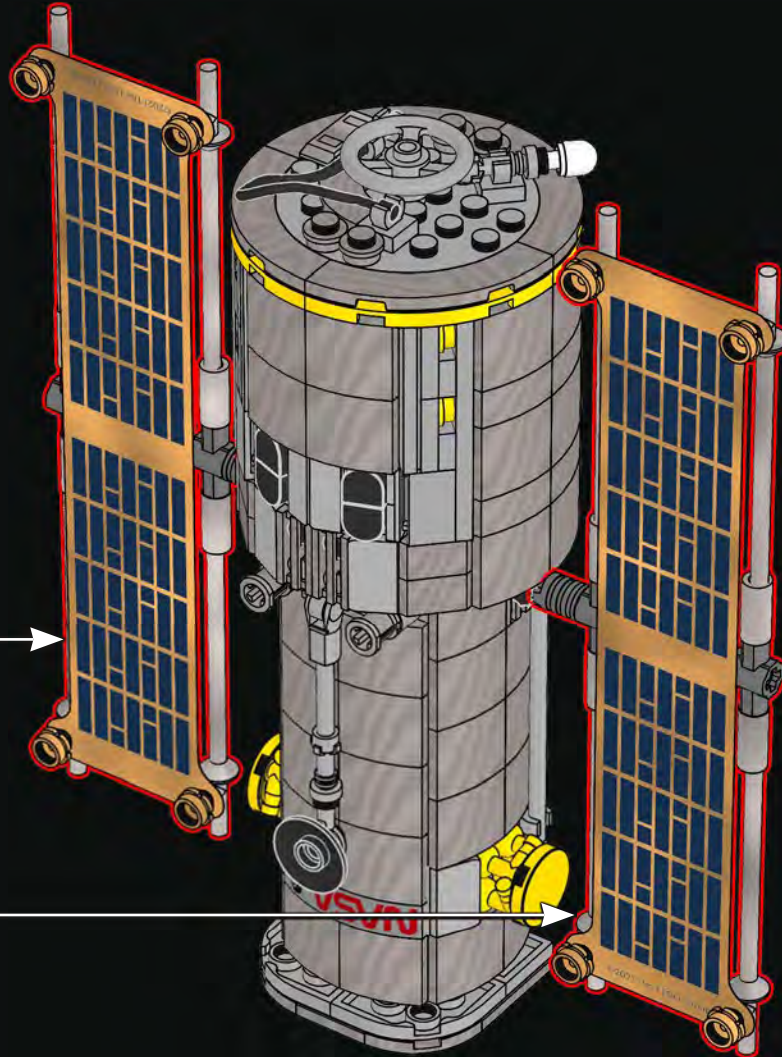


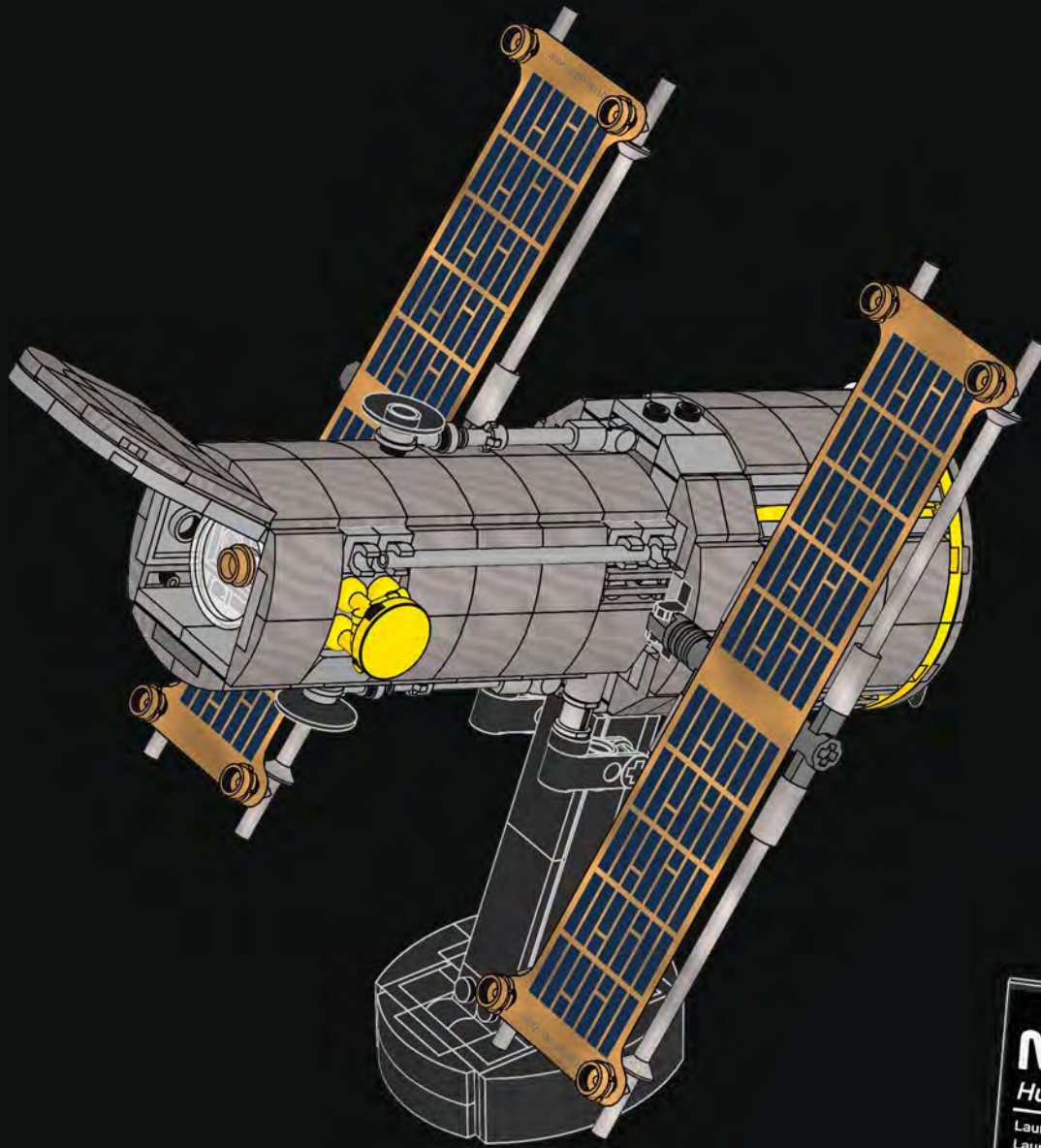
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DID YOU KNOW?

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



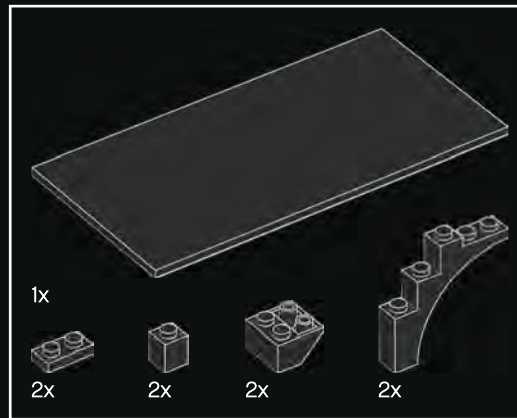
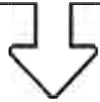
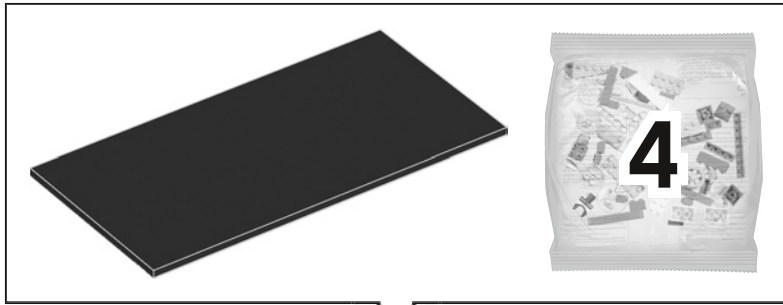


SPACE SHUTTLE DISCOVERY

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.







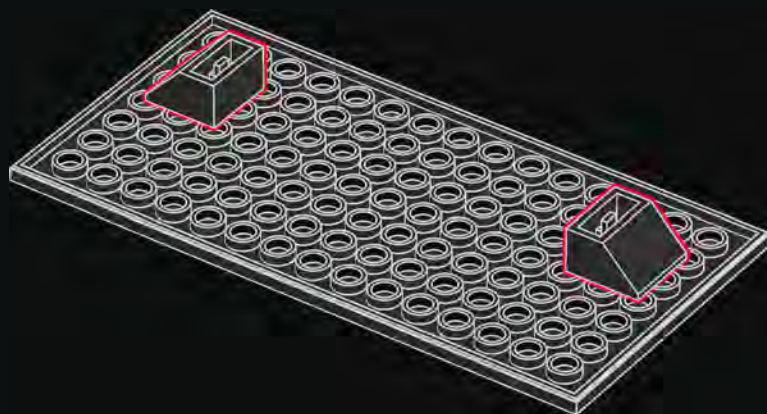
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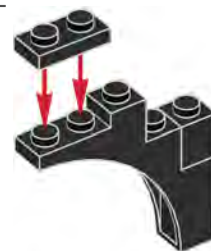
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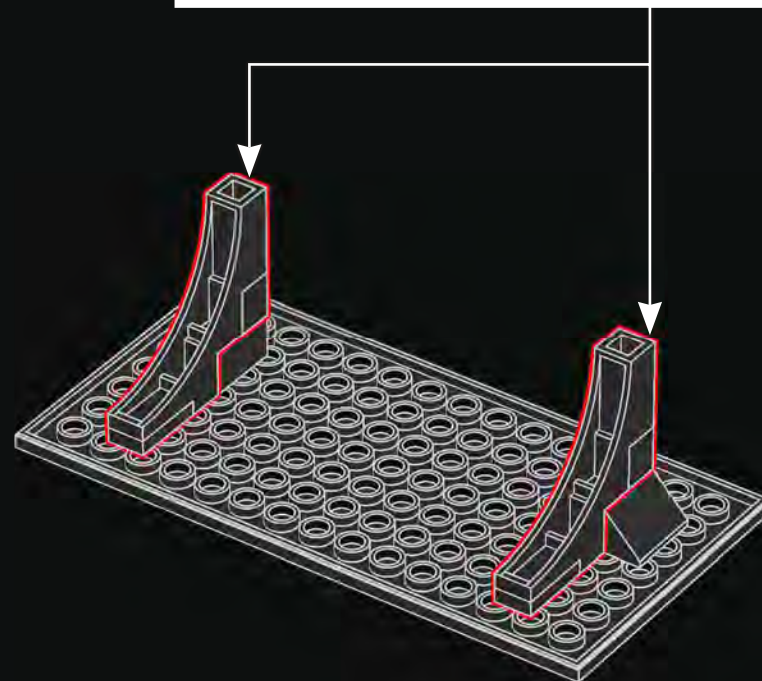


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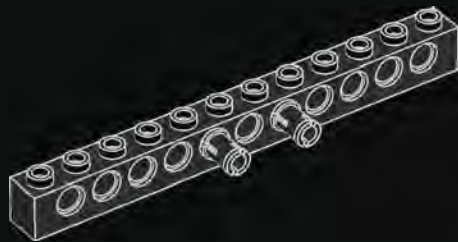
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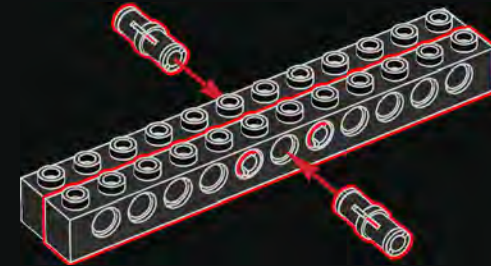




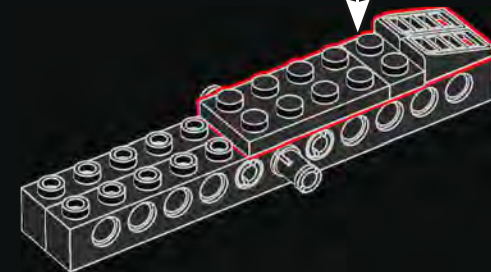
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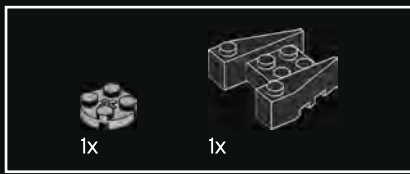


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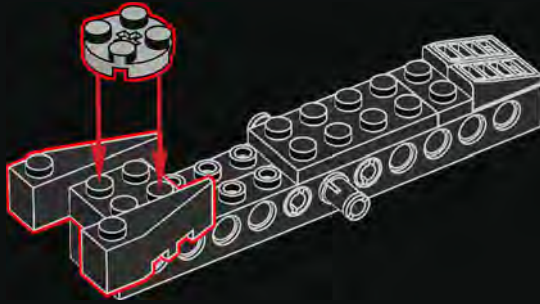


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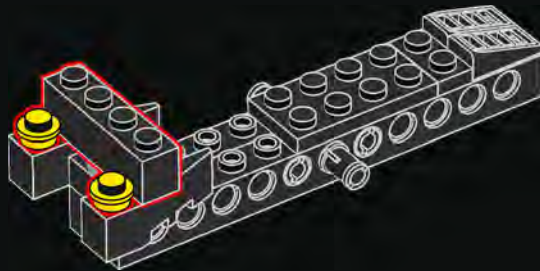




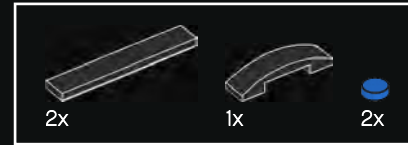
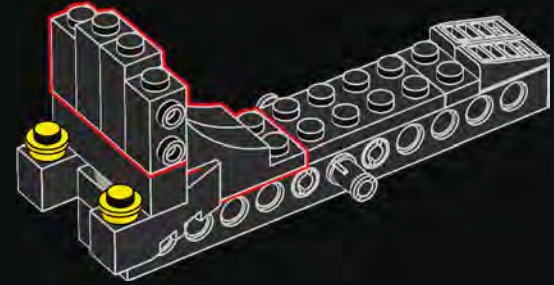
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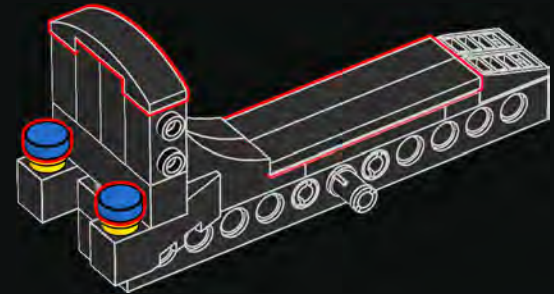
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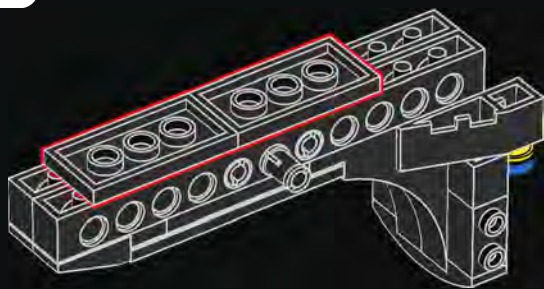


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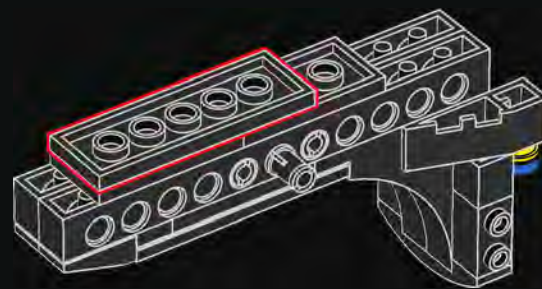


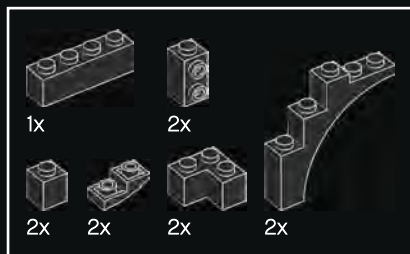


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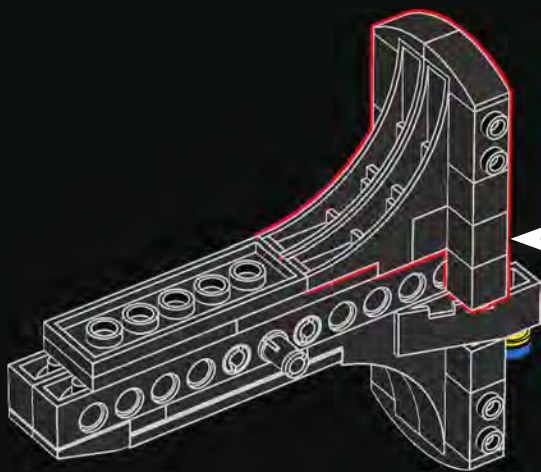
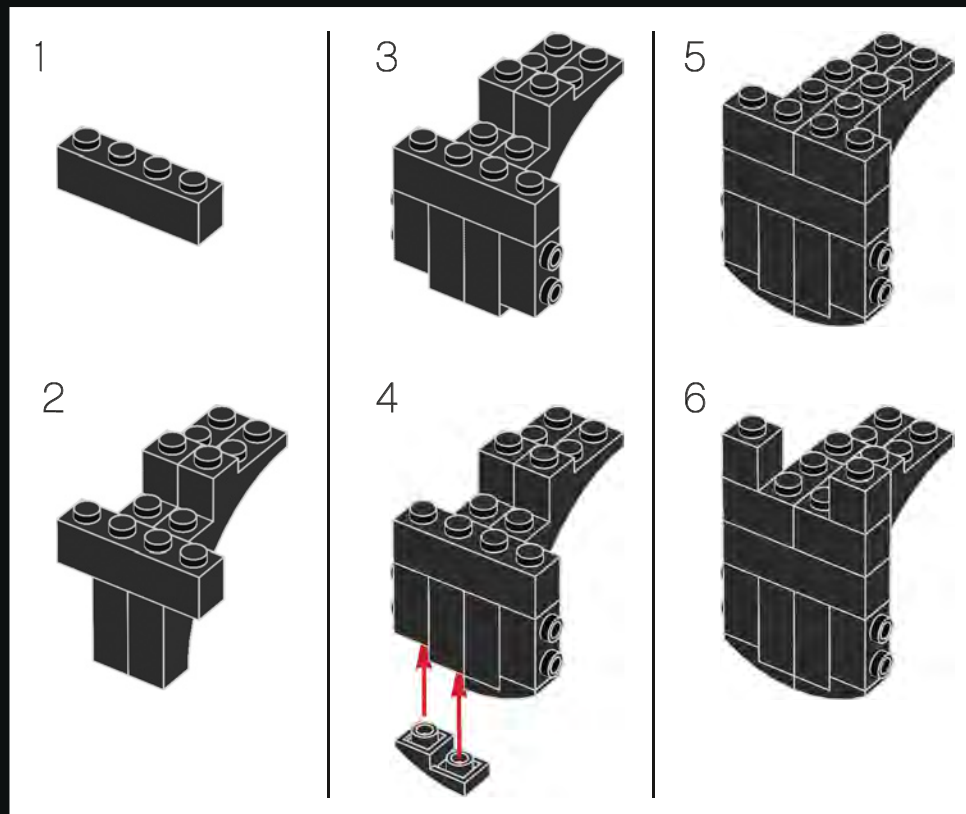


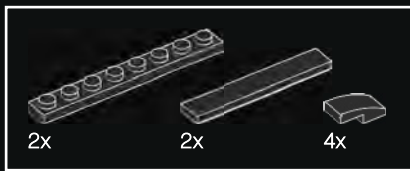
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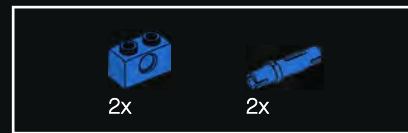
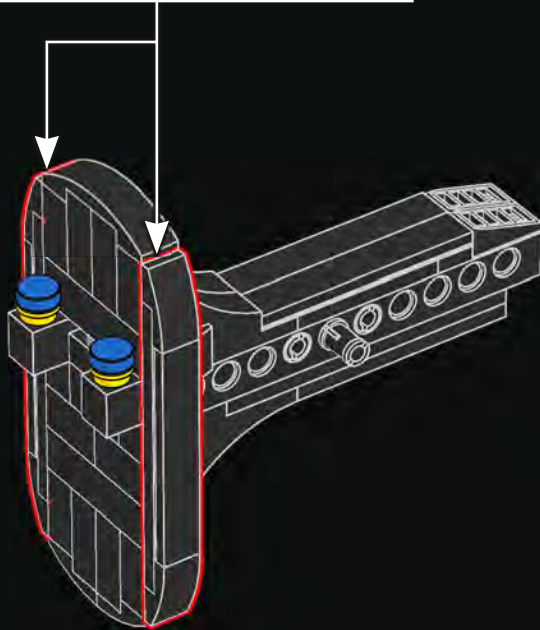
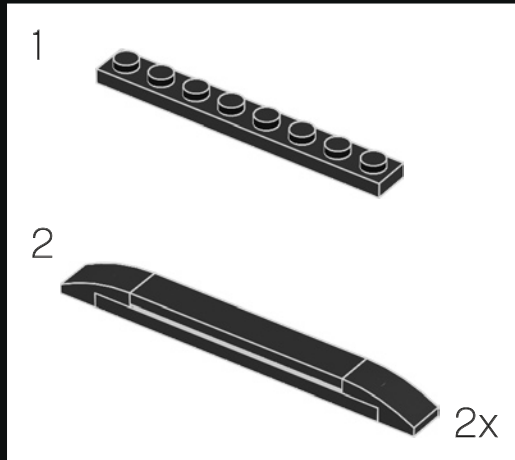


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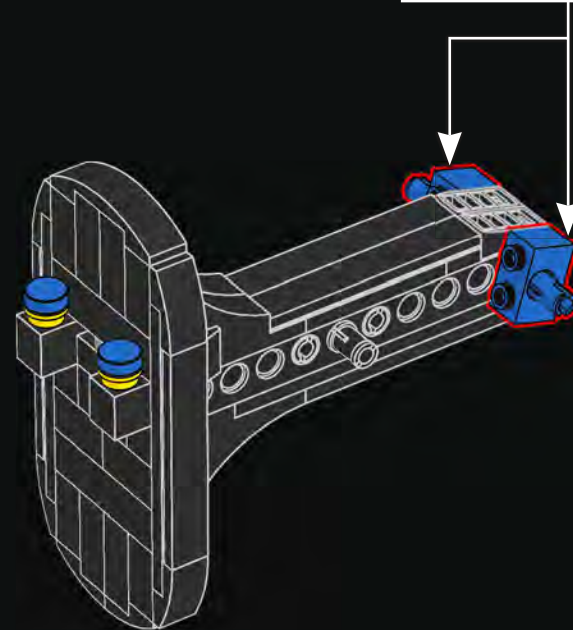
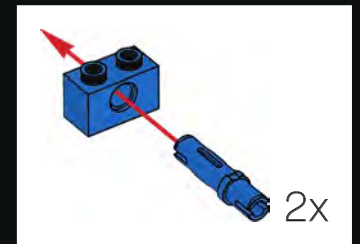


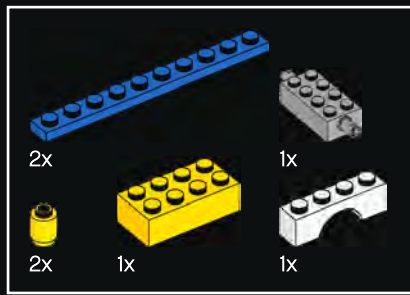


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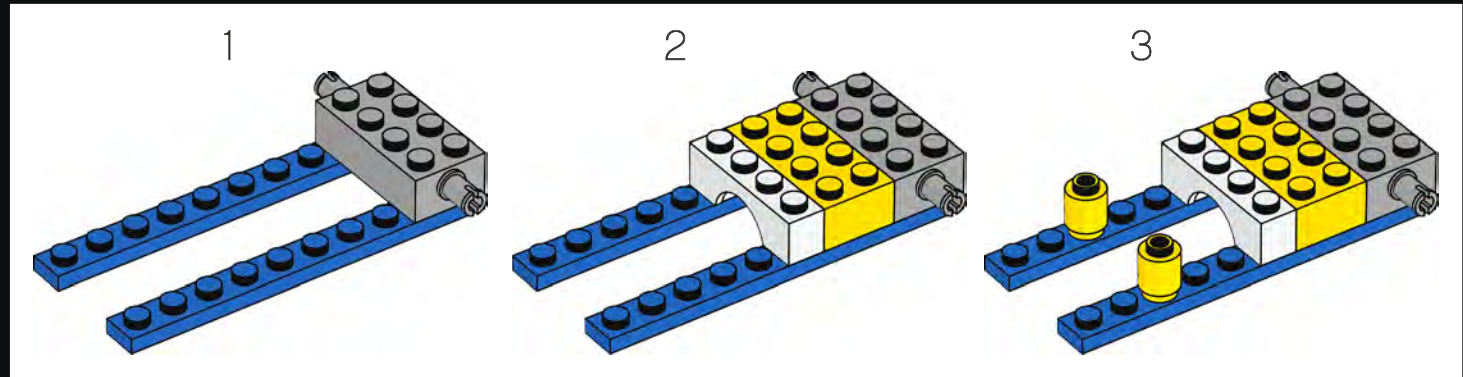


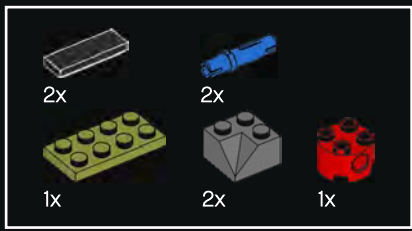
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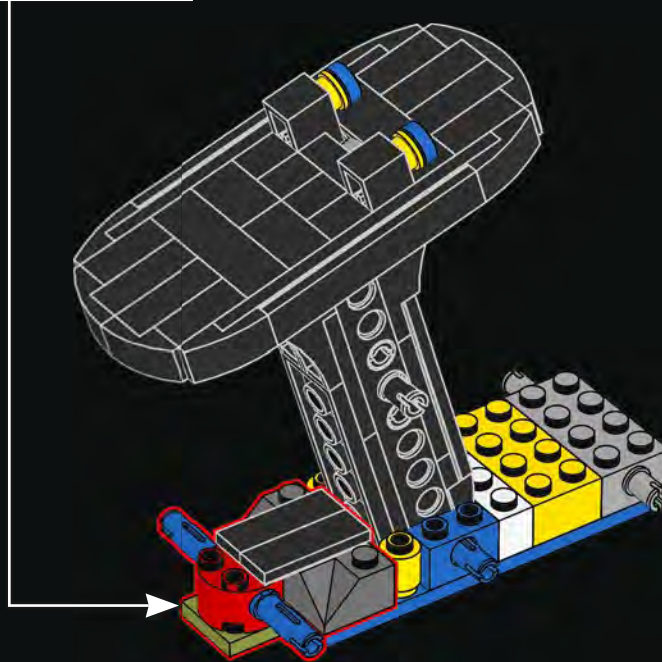
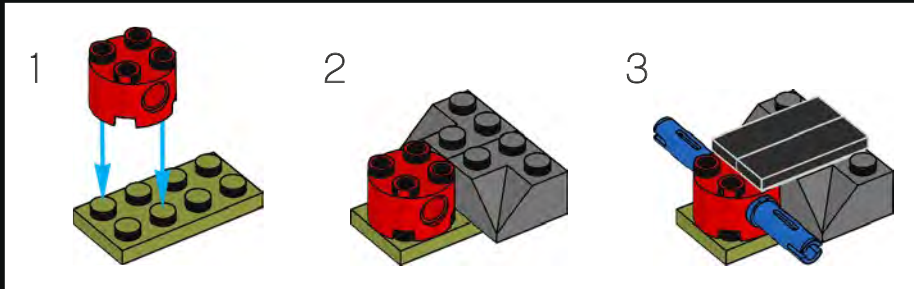


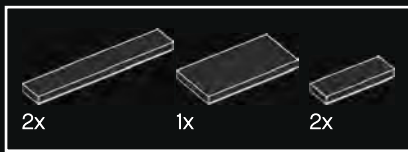
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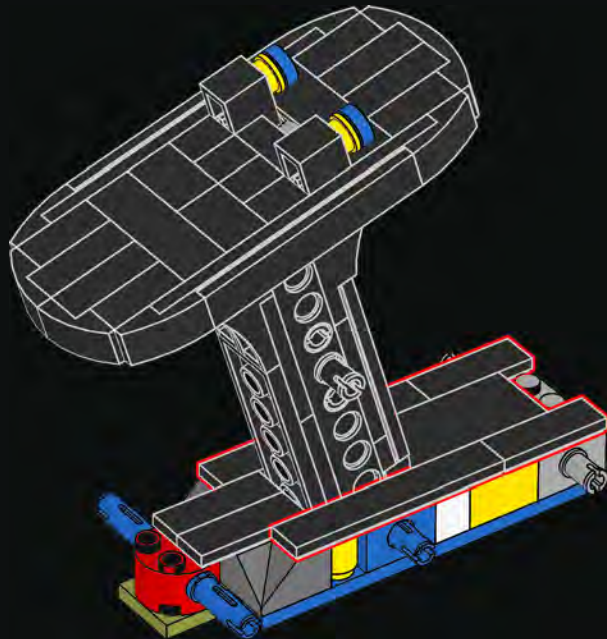


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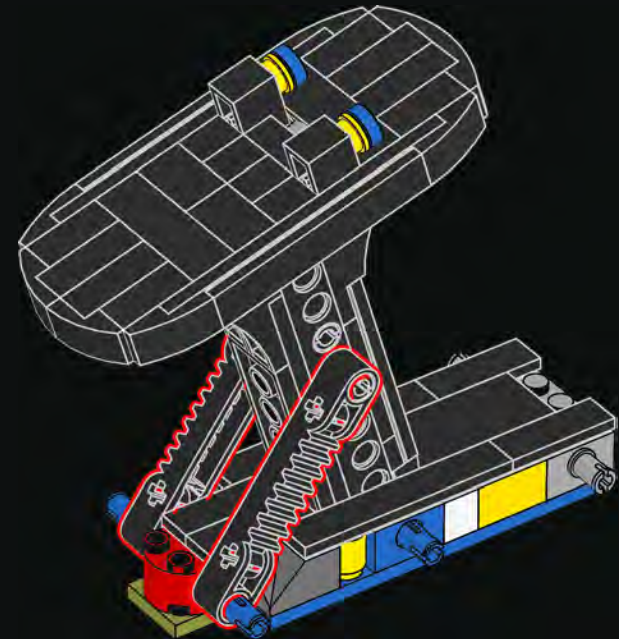


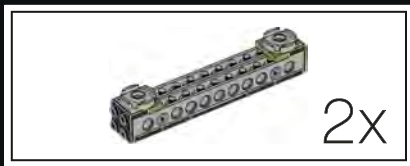


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16





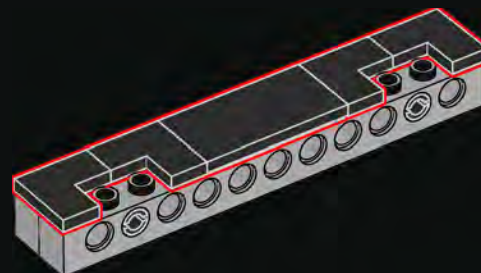
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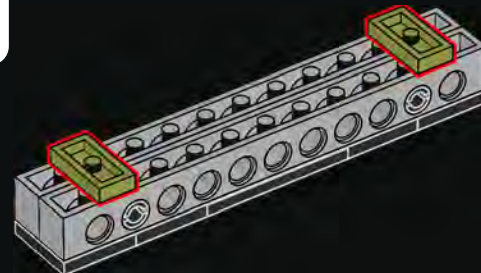
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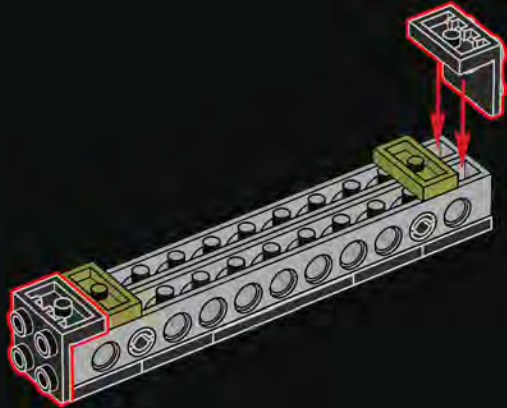


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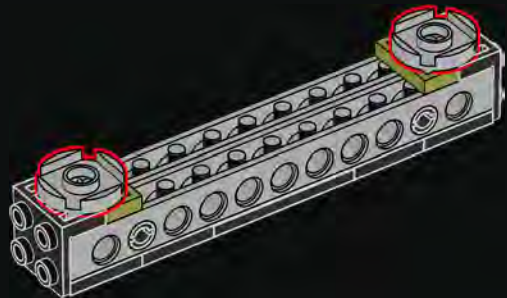




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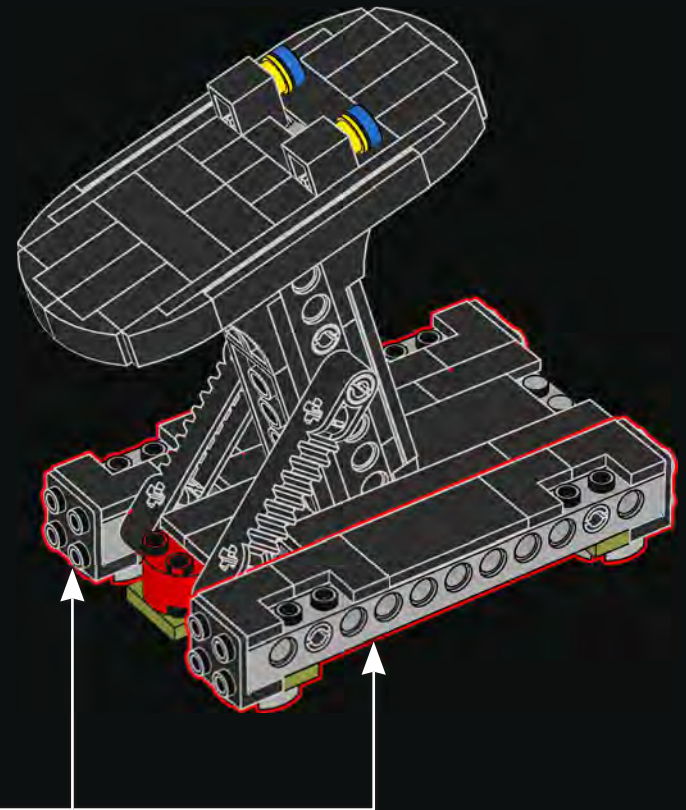


22



2x

23



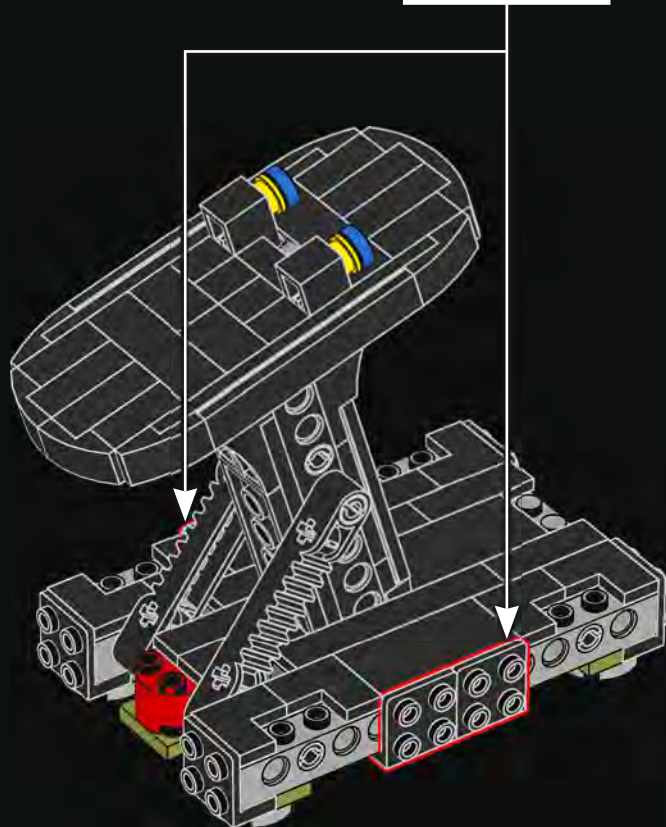


4x

24

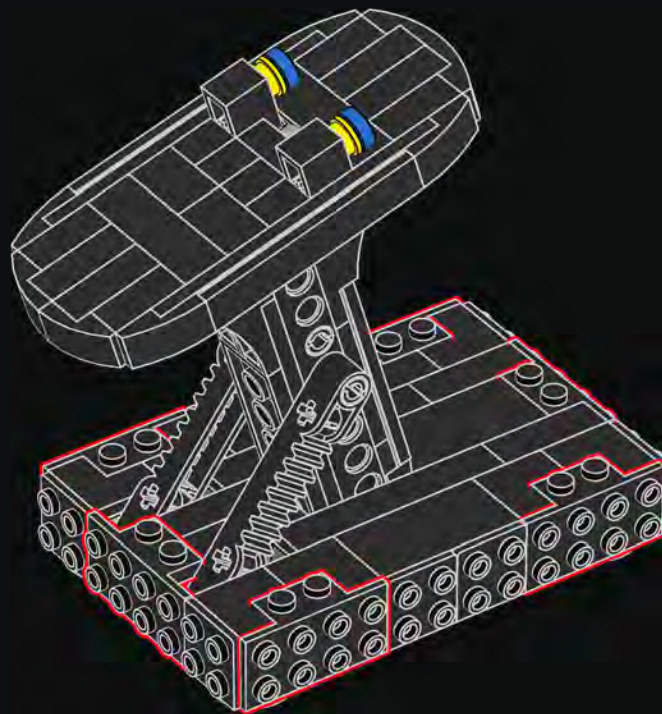


4x



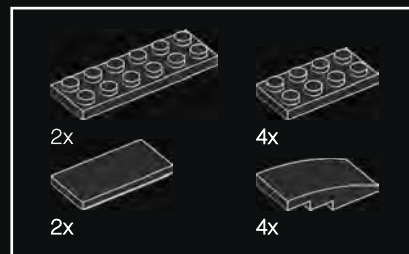
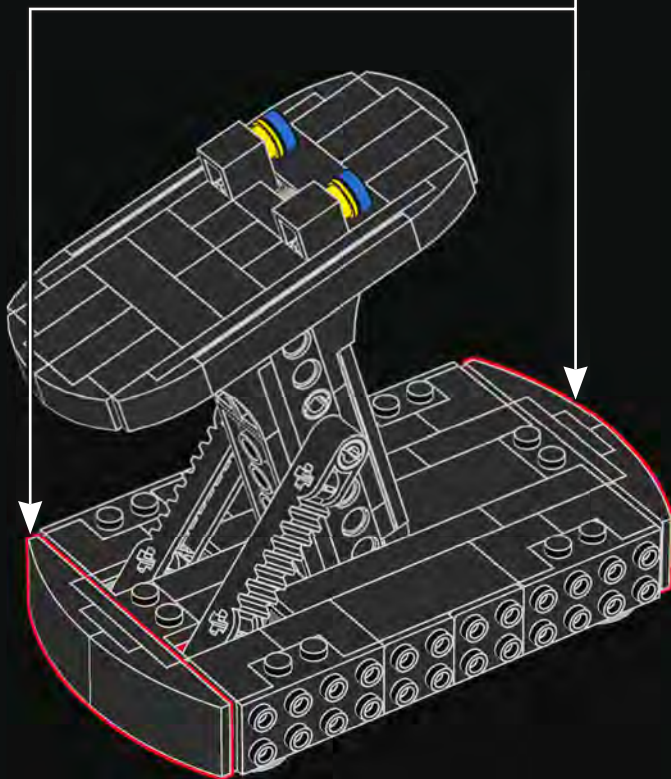
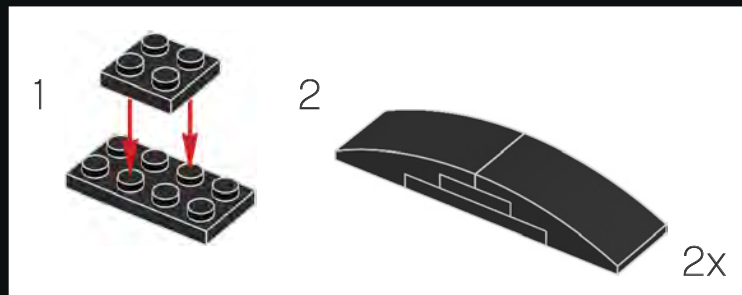
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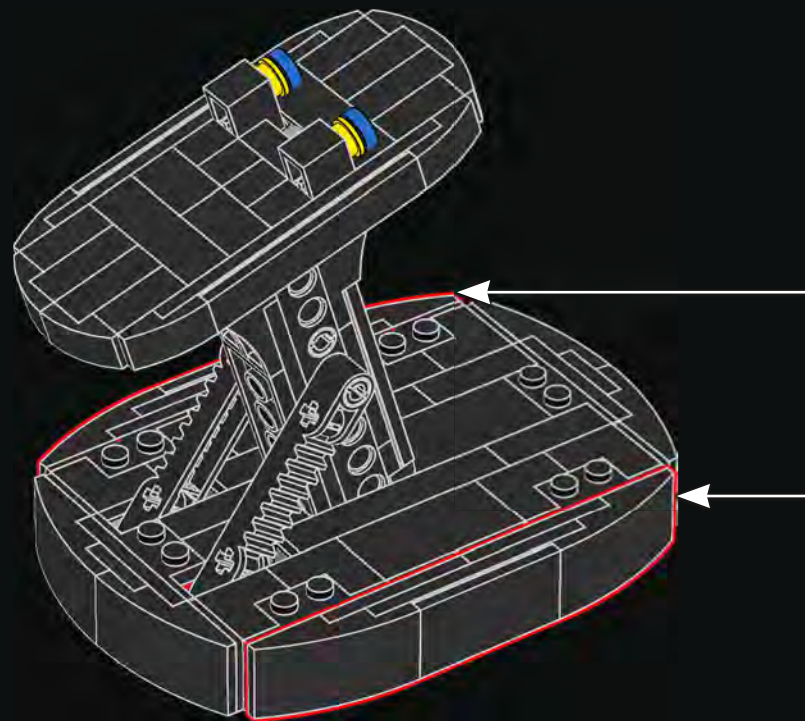
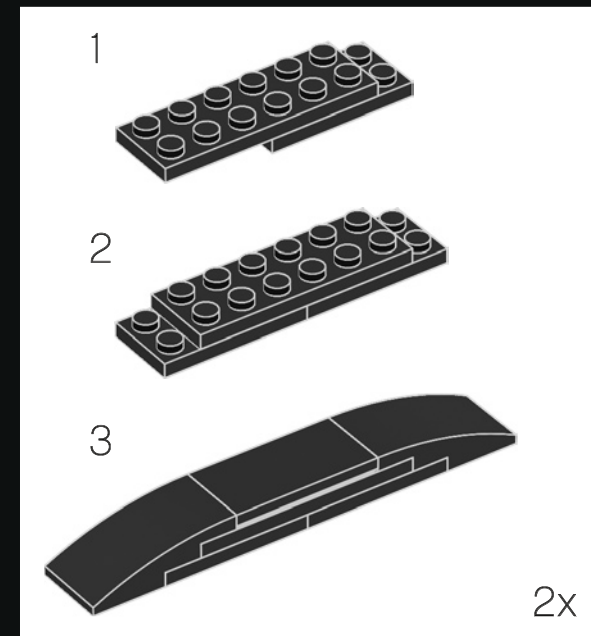


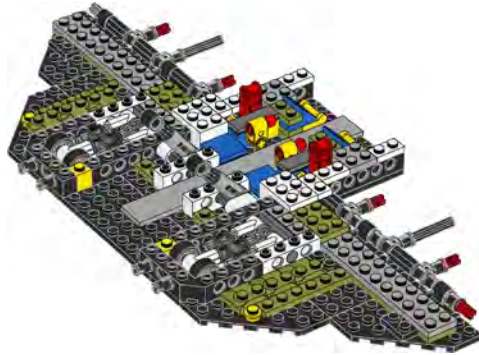
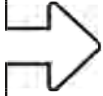


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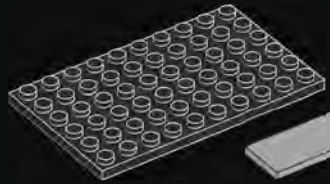
27





DID YOU KNOW?

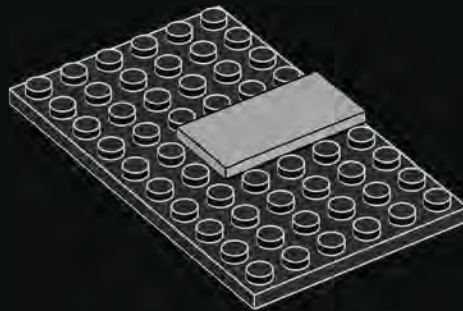
Discovery carried 222 people throughout its time in service, the highest number of any shuttle.



1x

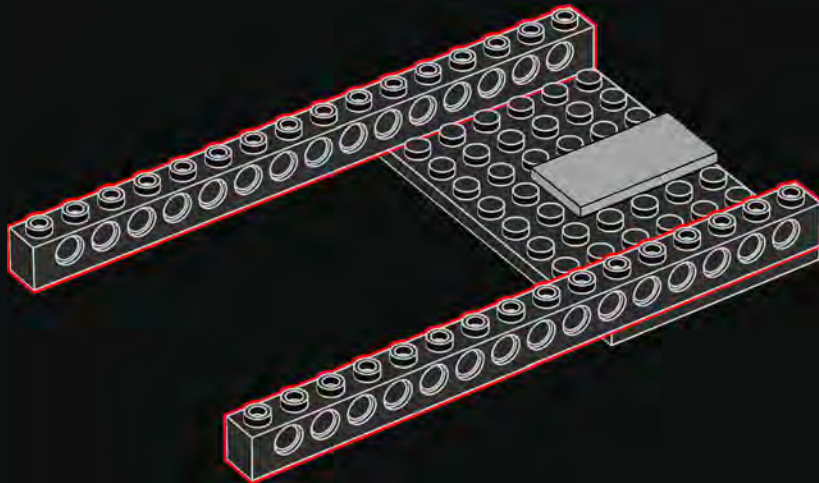
1x

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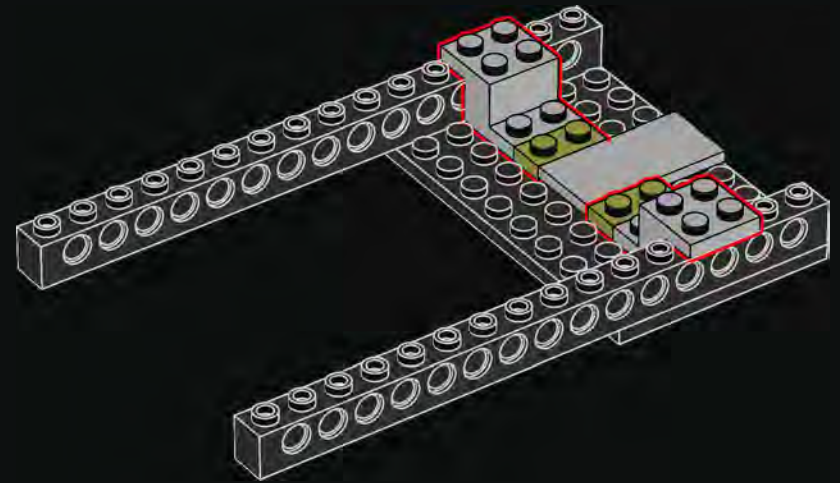


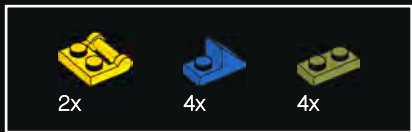


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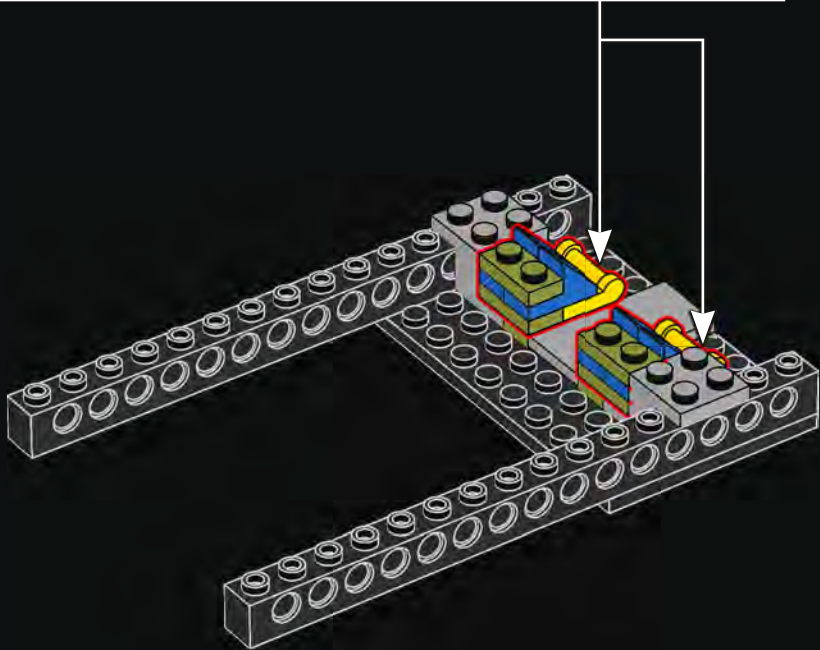
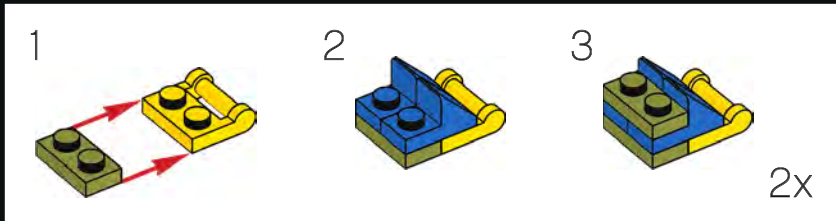


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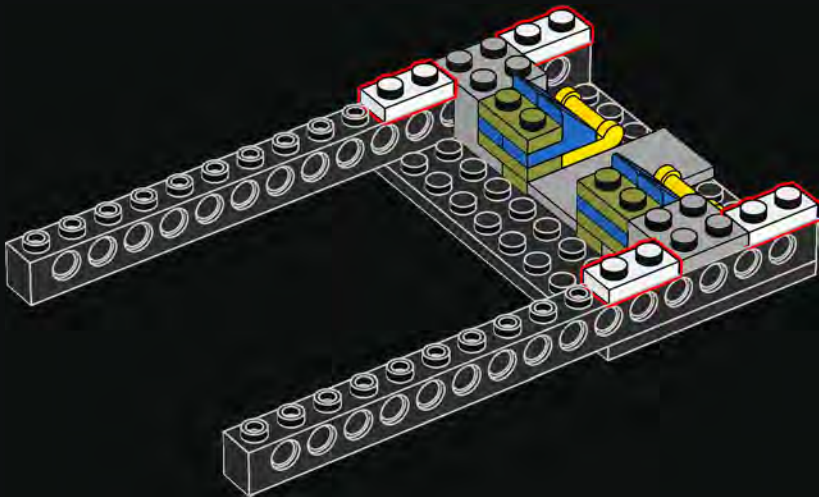




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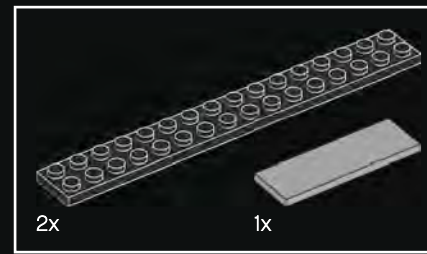
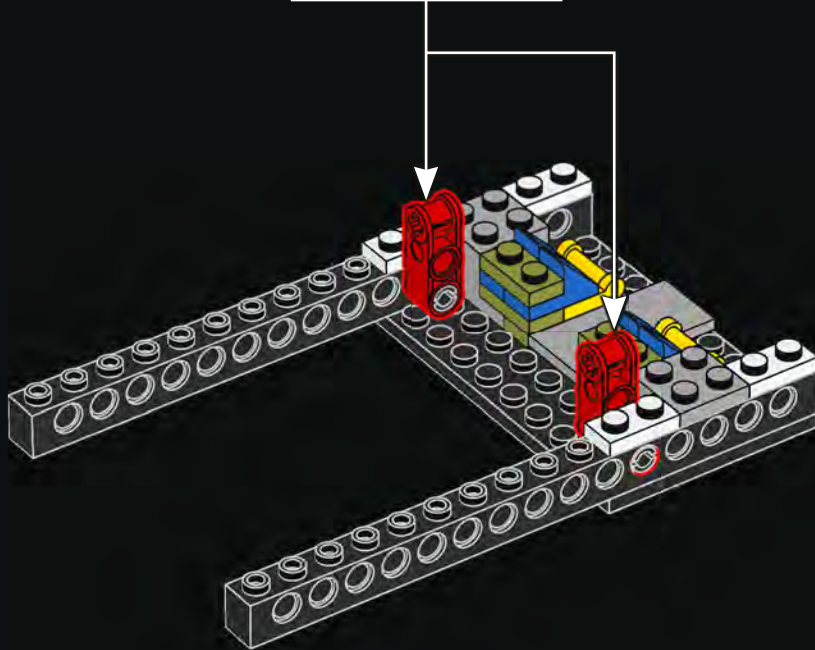
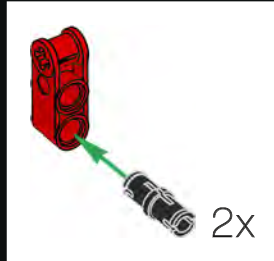


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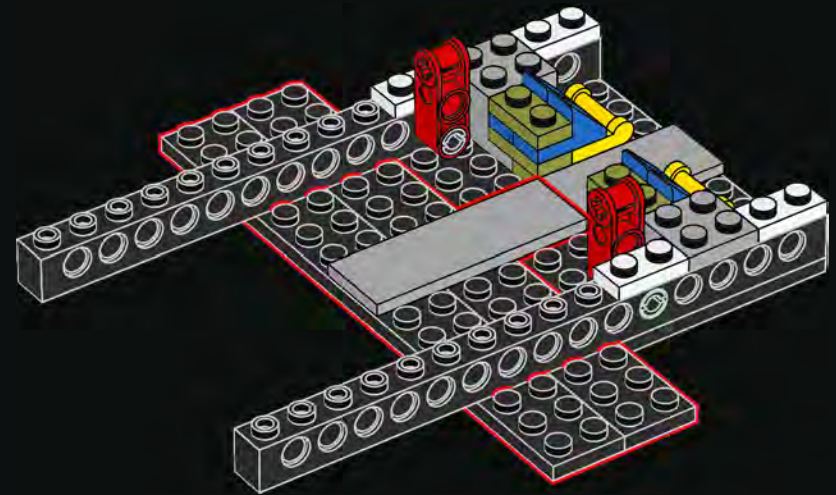




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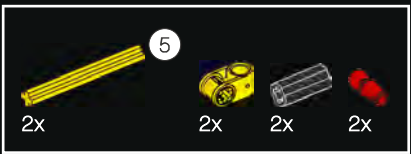
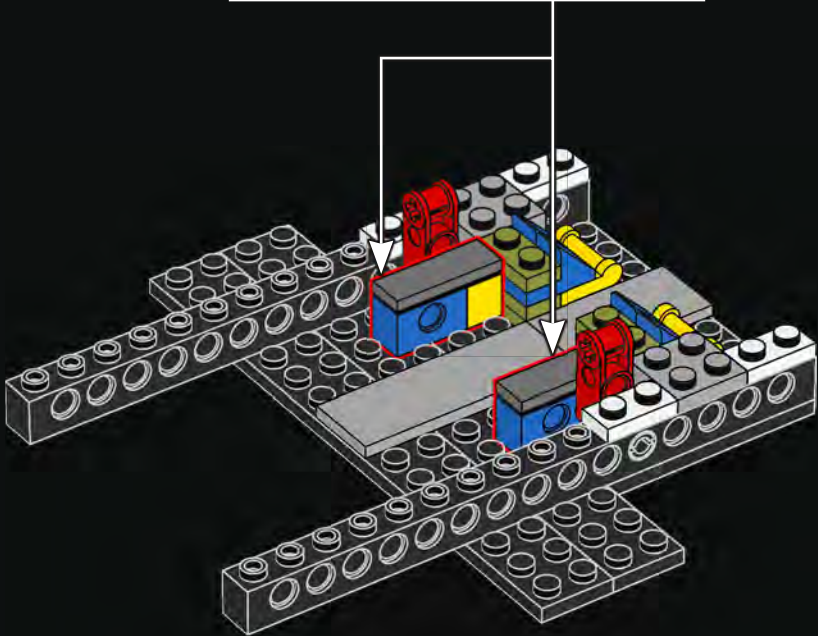
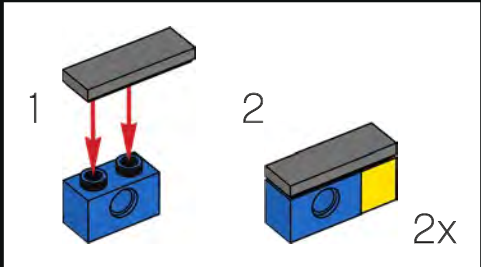


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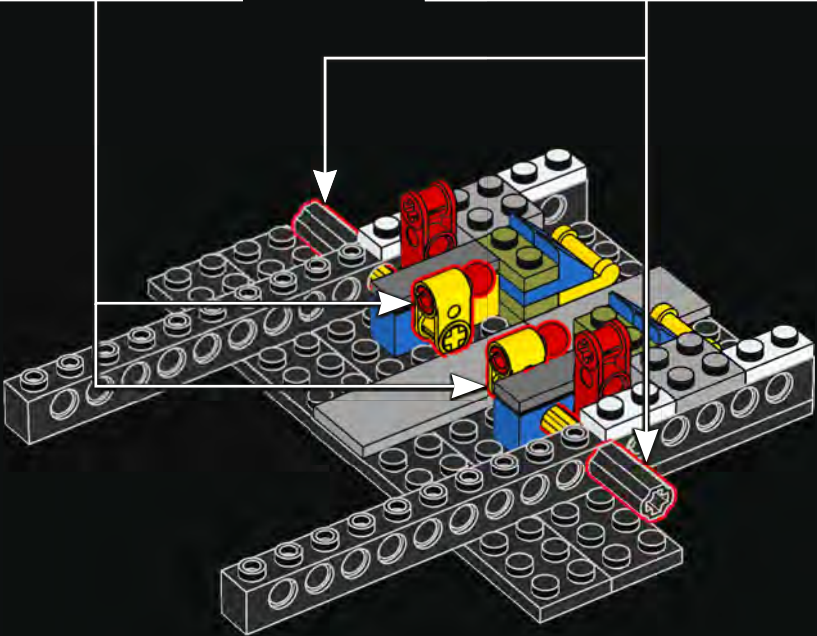
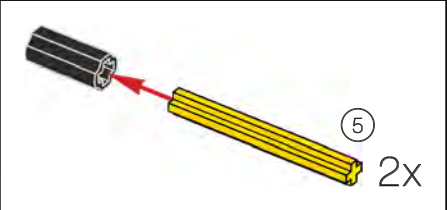


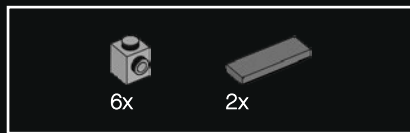


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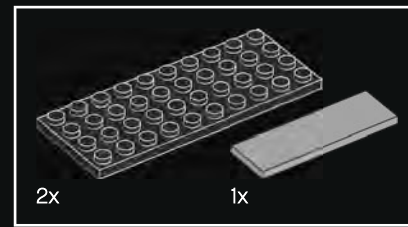
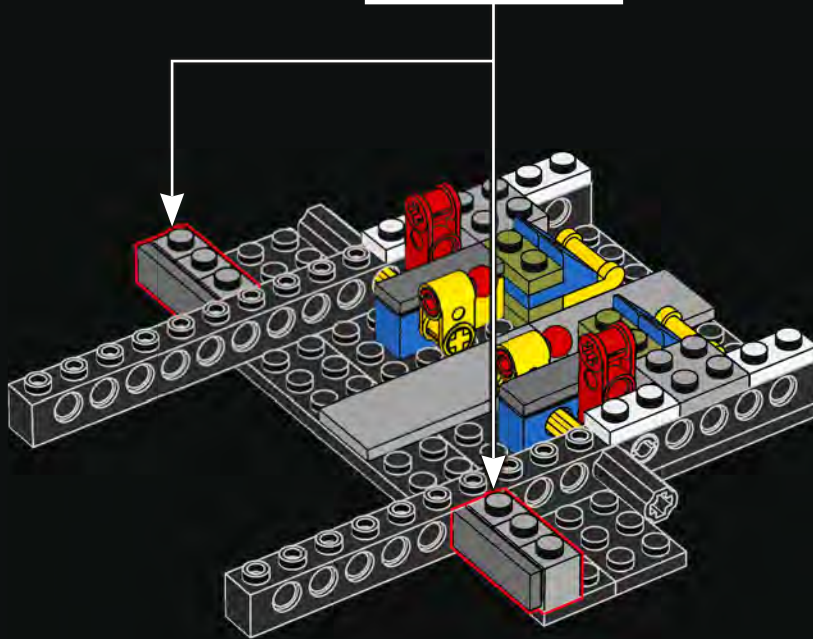
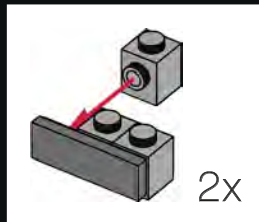


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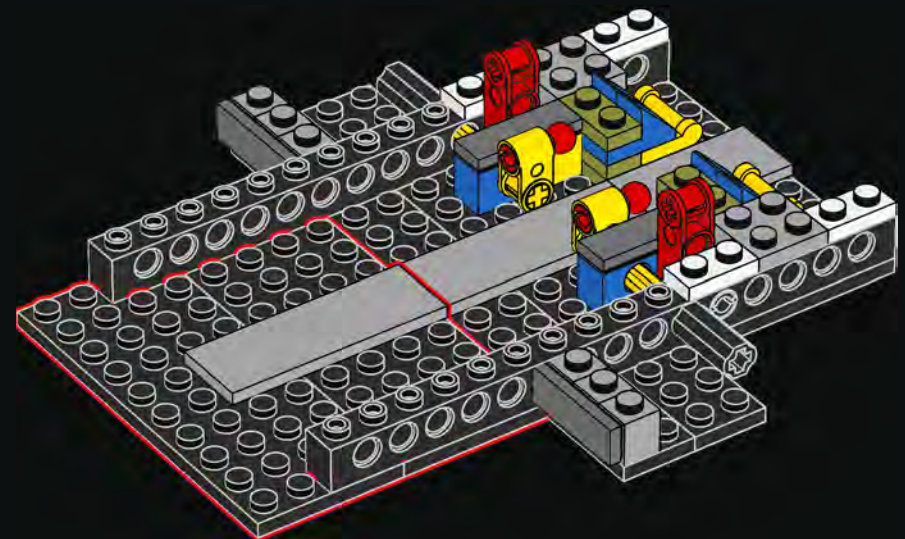


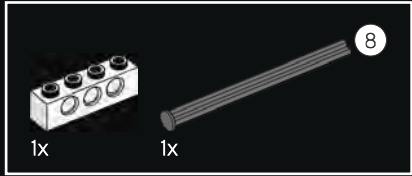
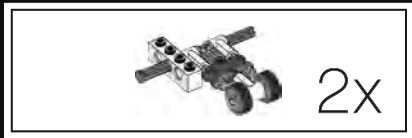


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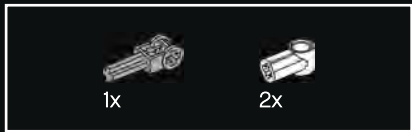


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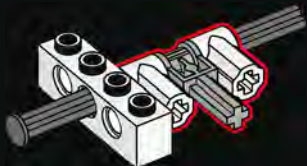




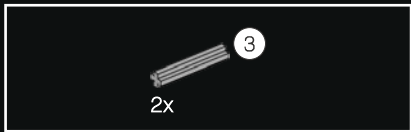
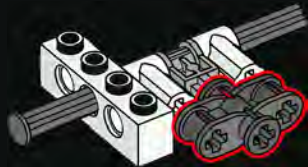
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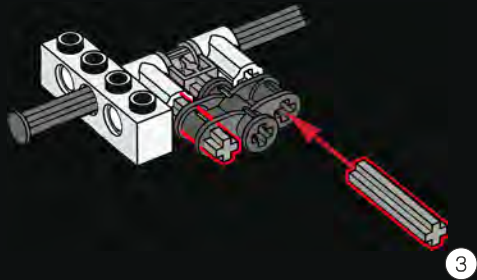
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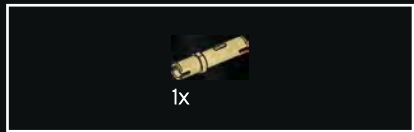
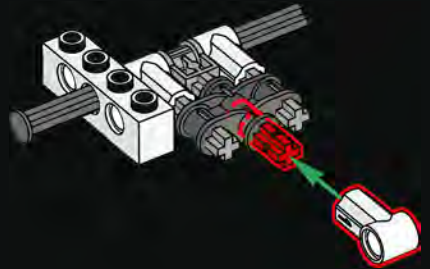
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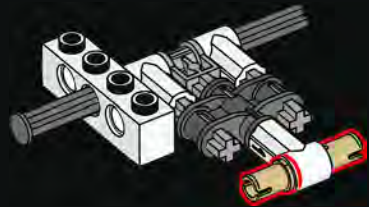
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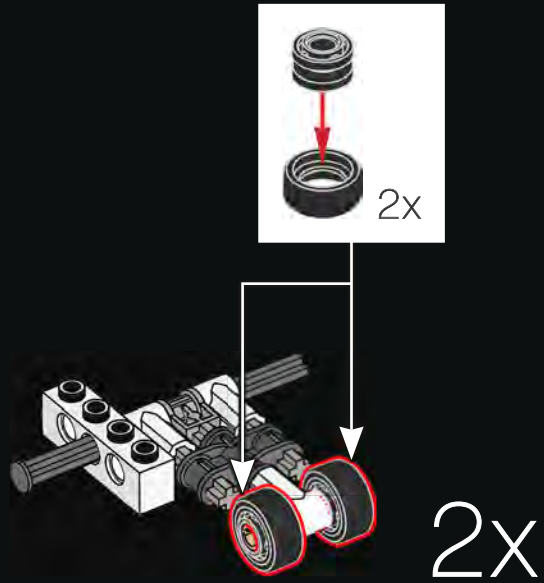


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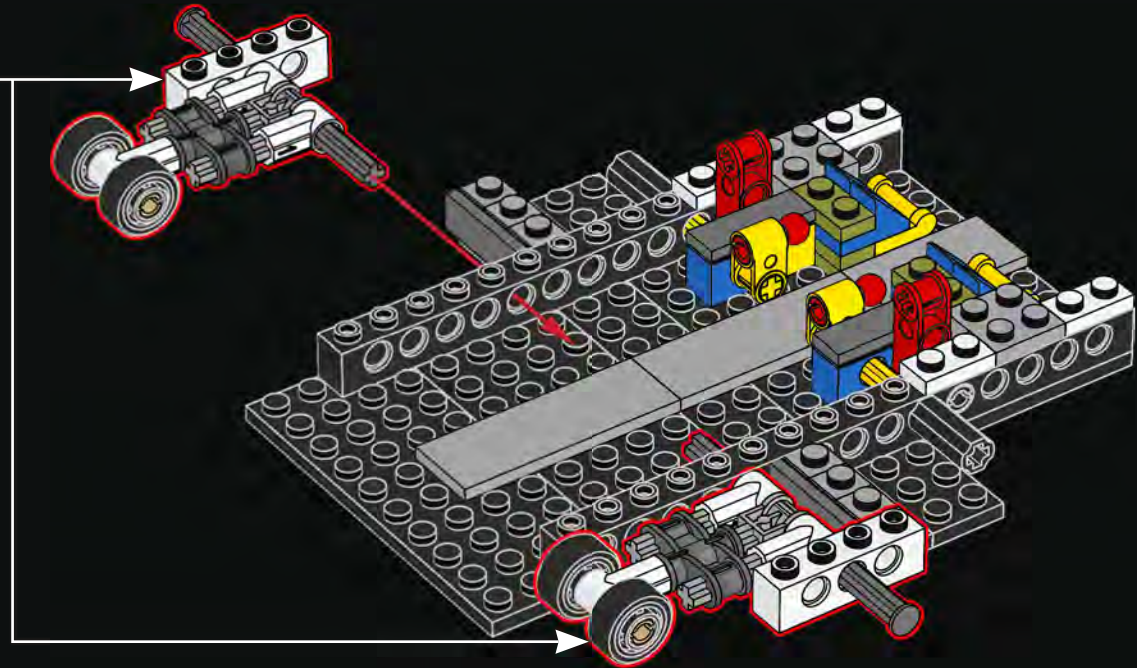




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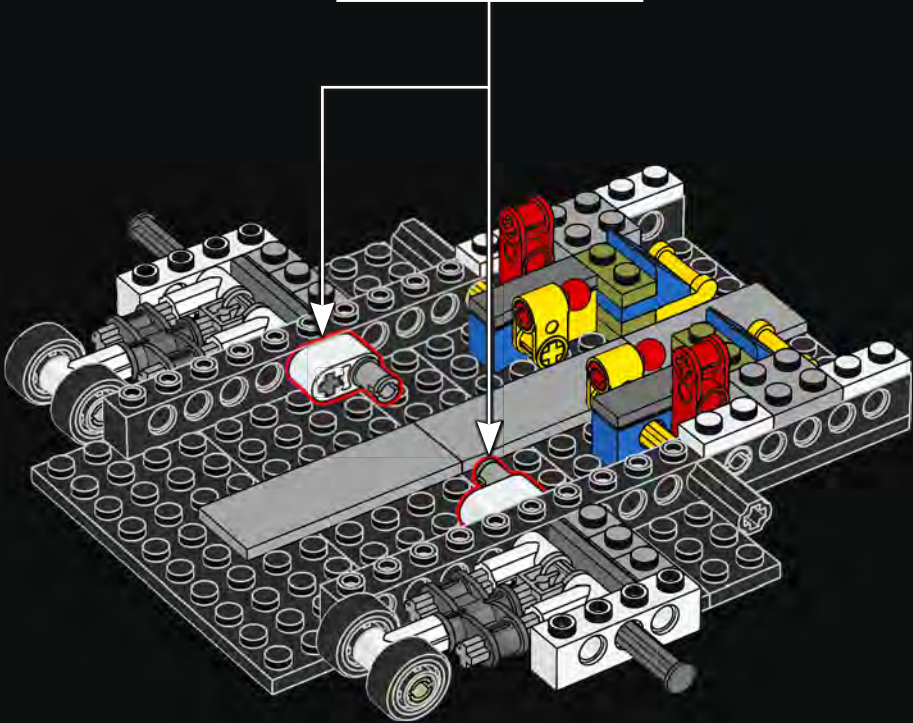
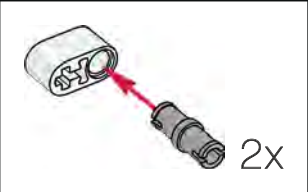


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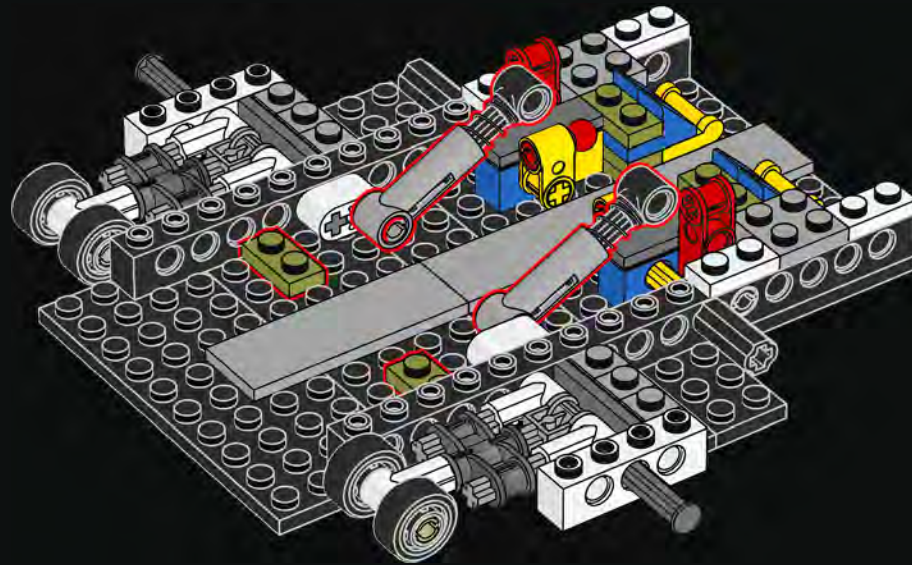


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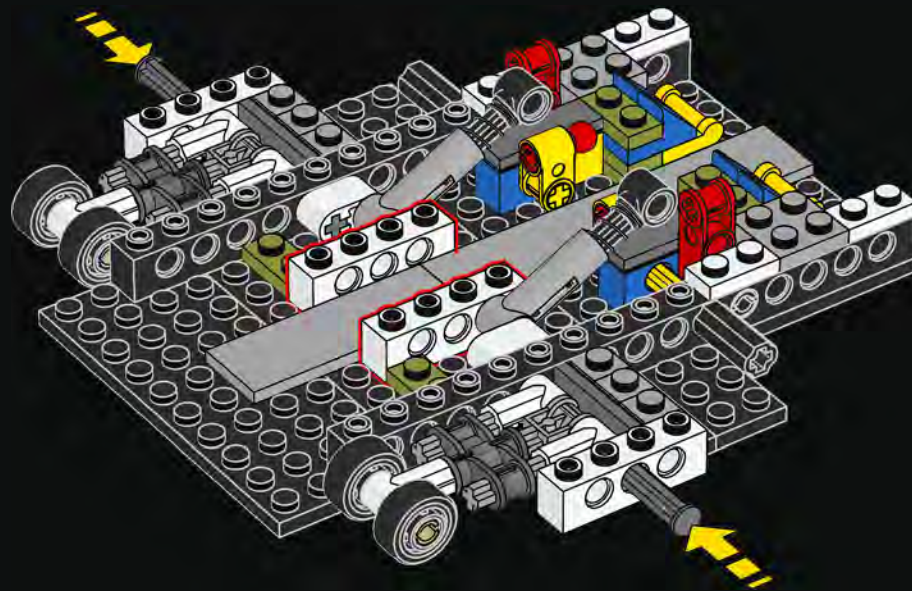


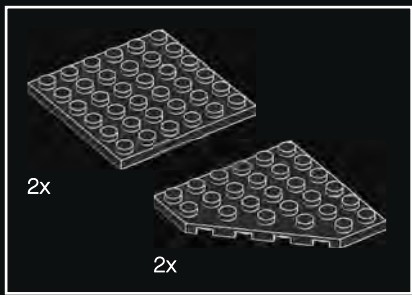


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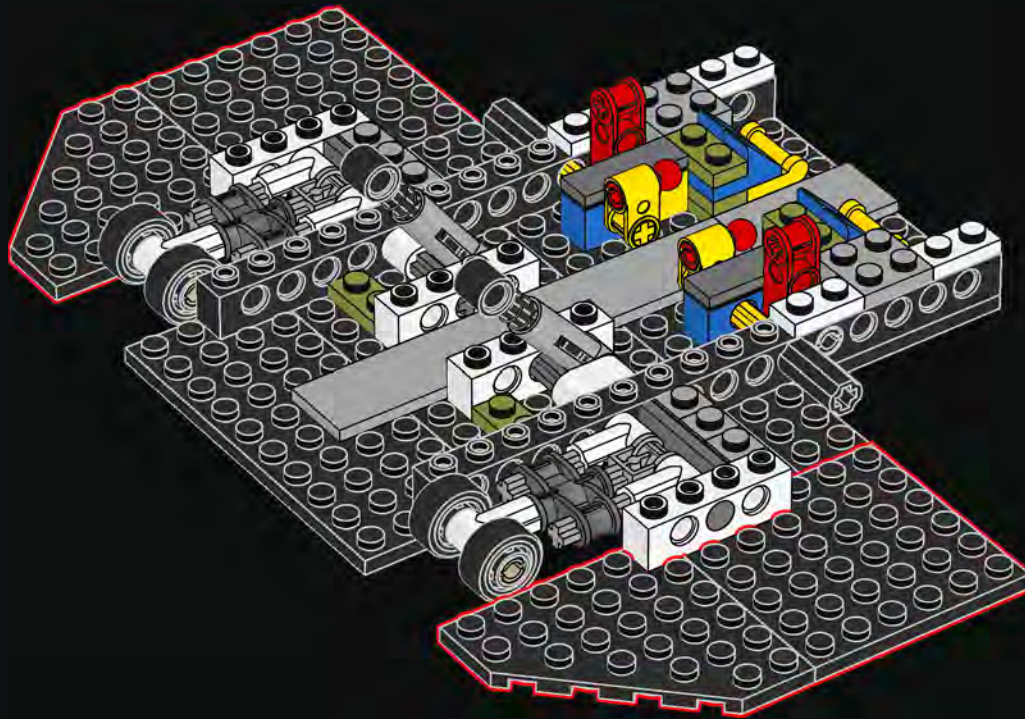


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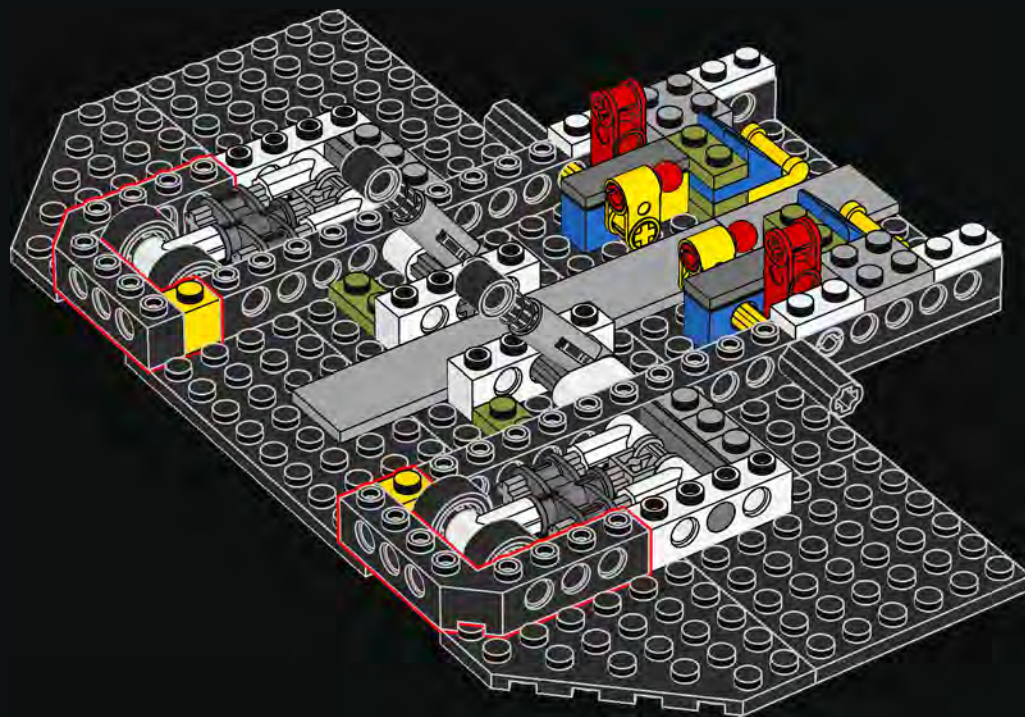


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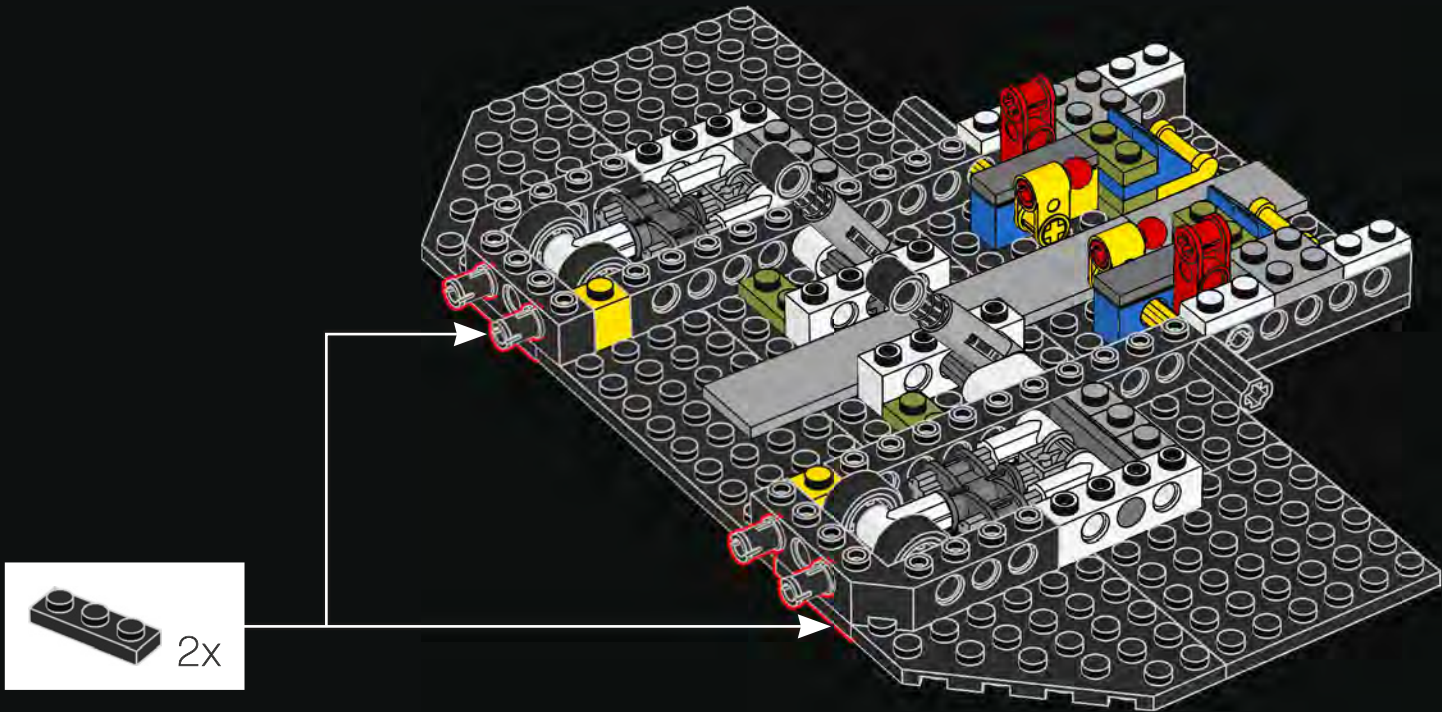


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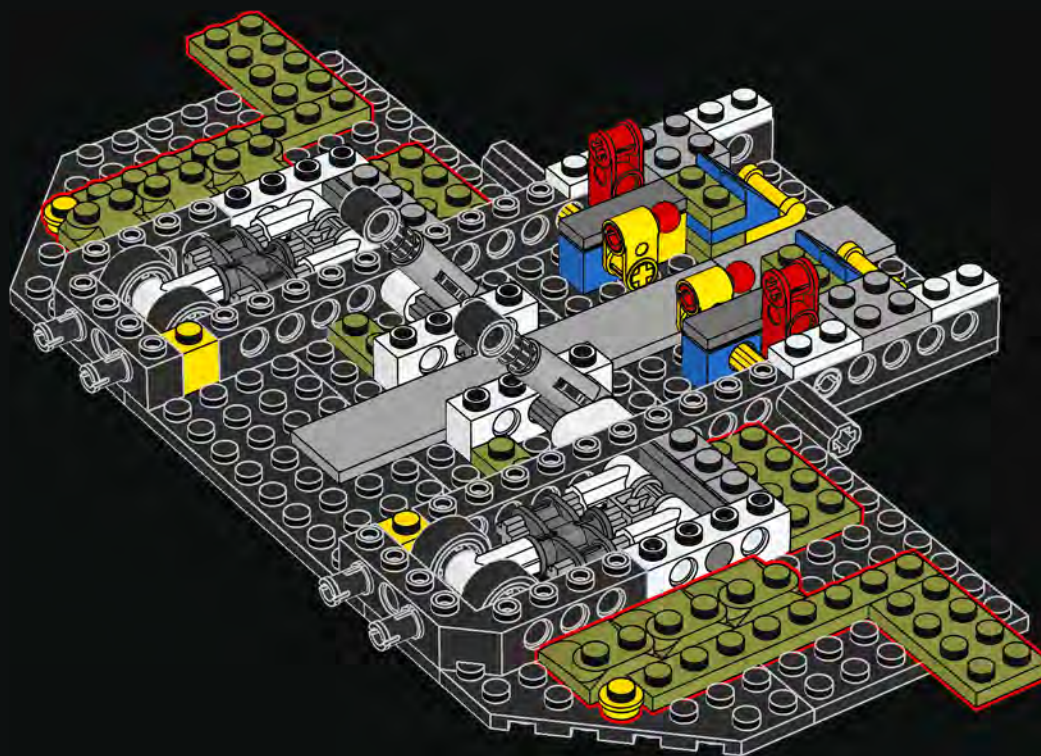


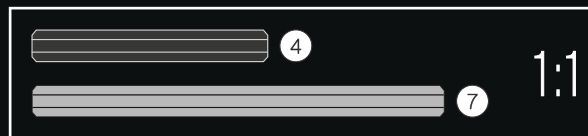
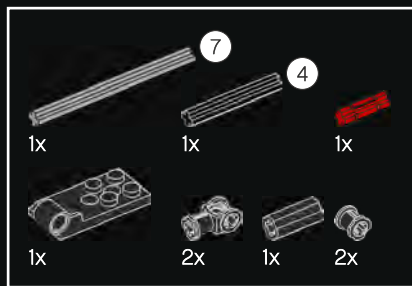
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26





27

1



2



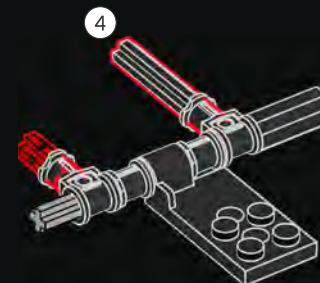
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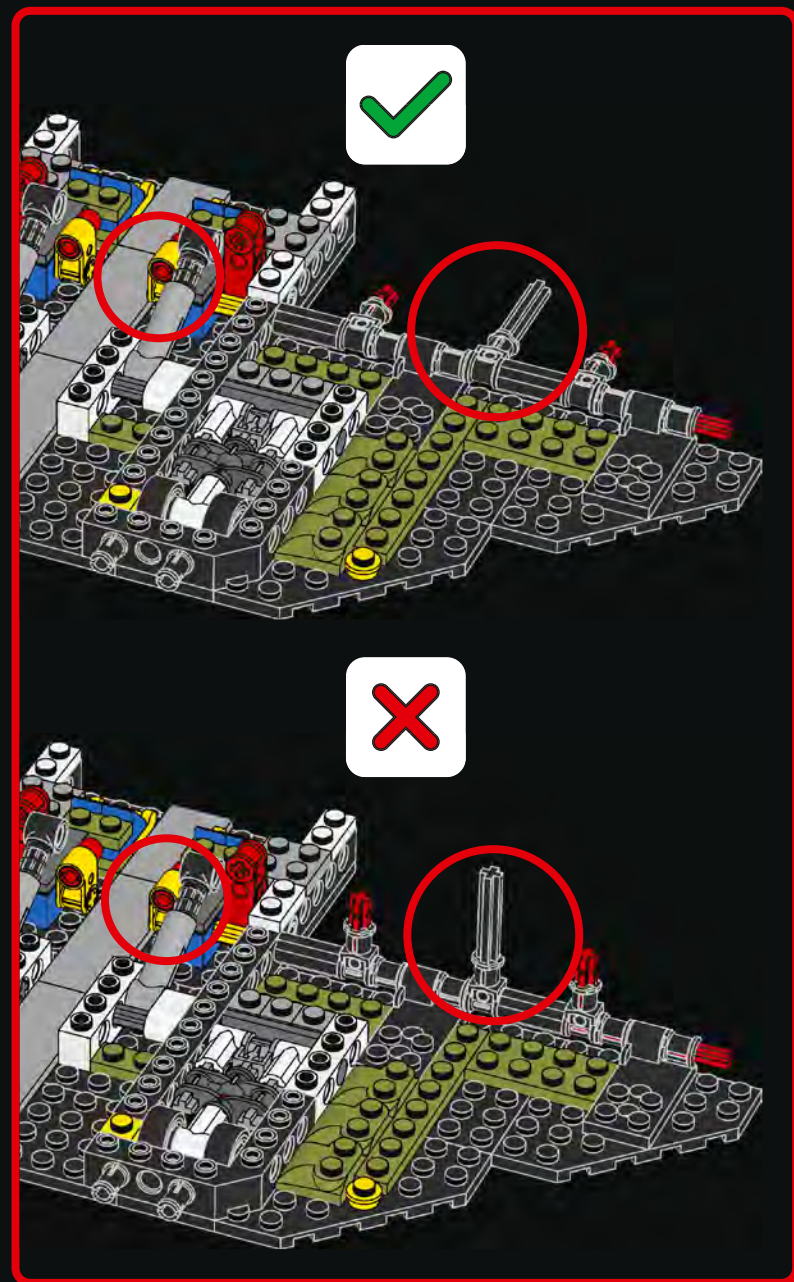
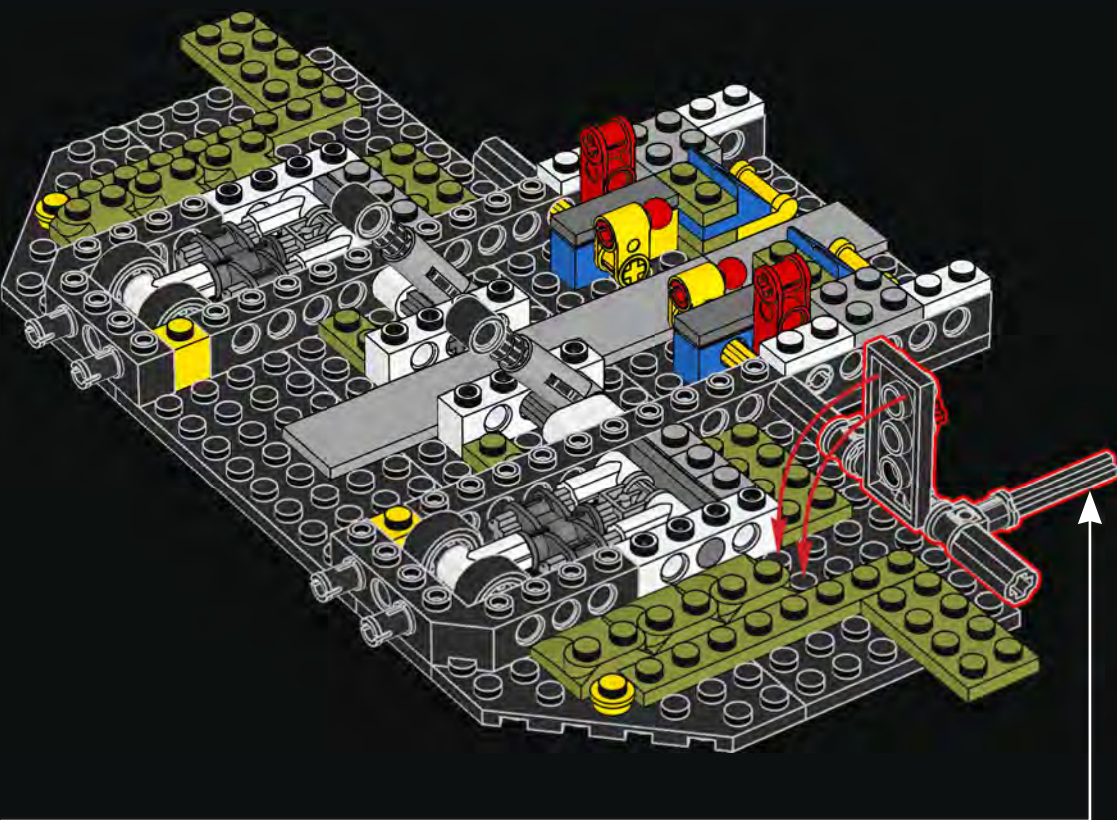


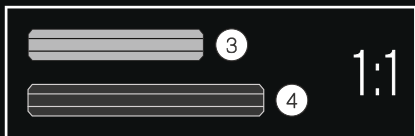
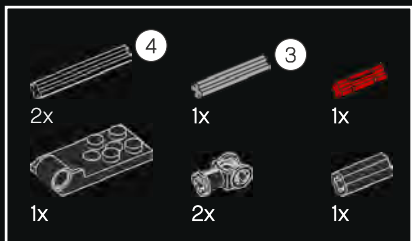
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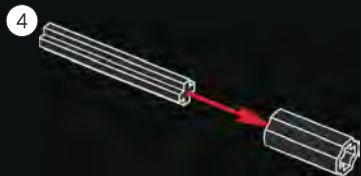






28

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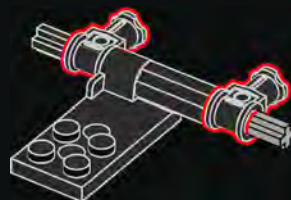
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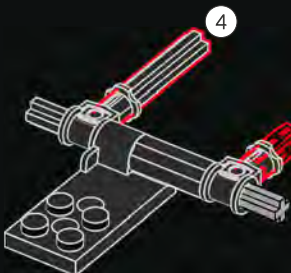
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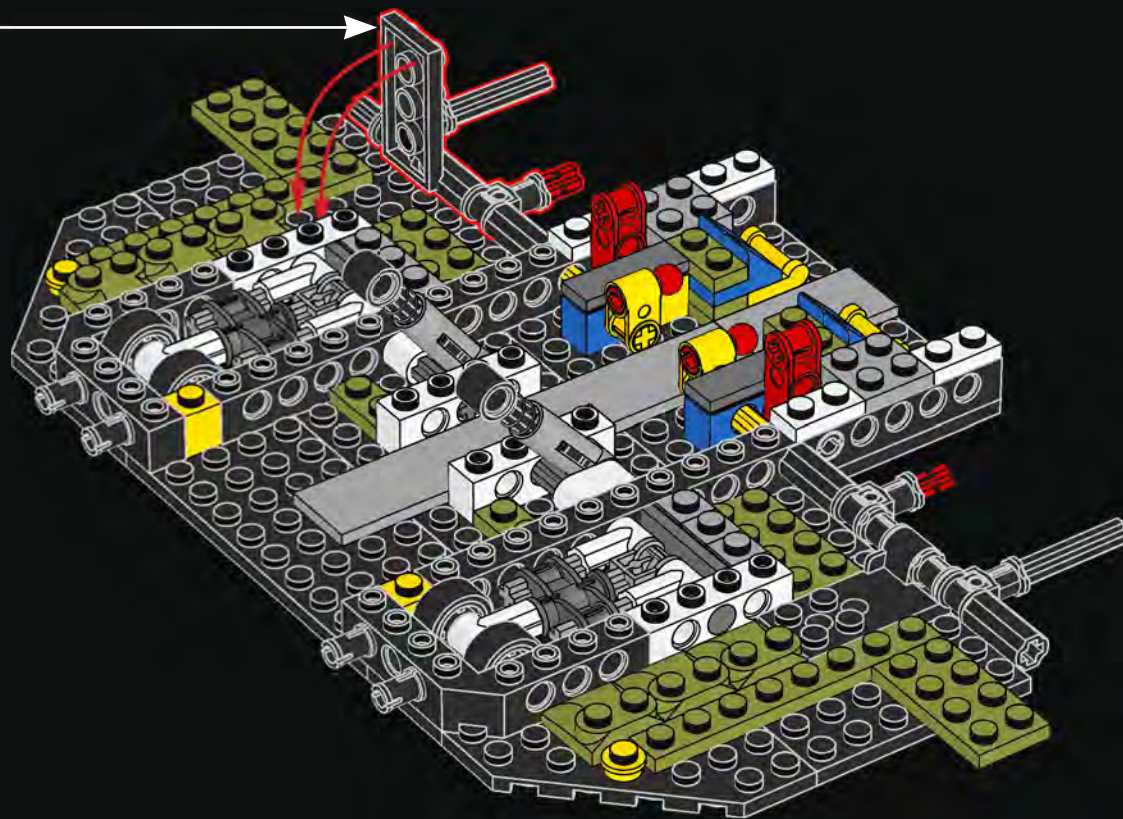


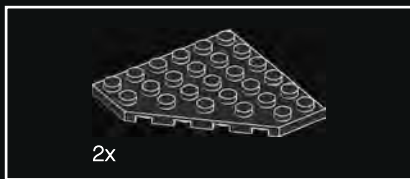
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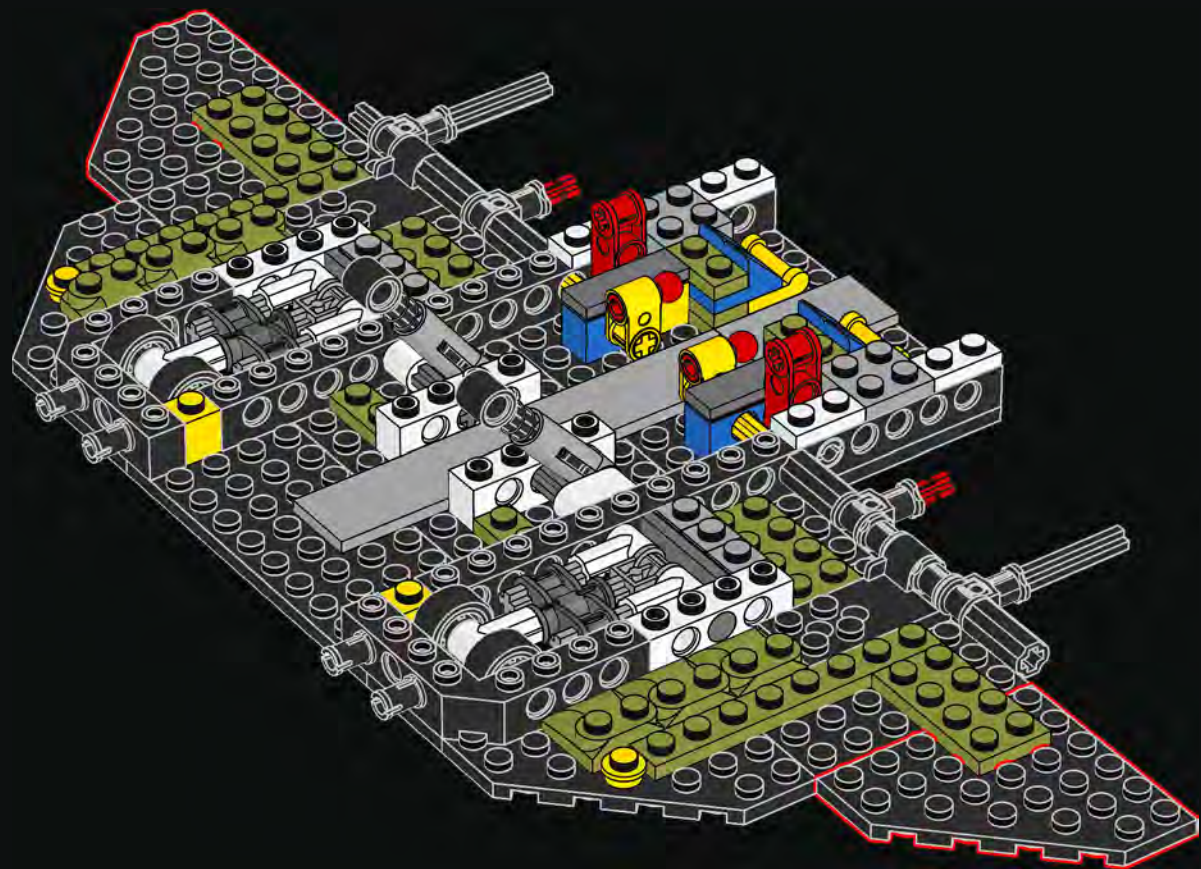
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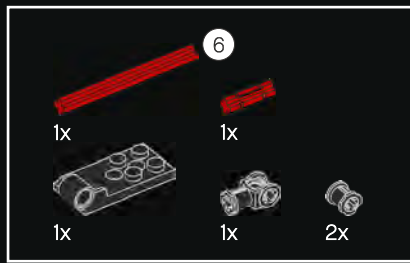




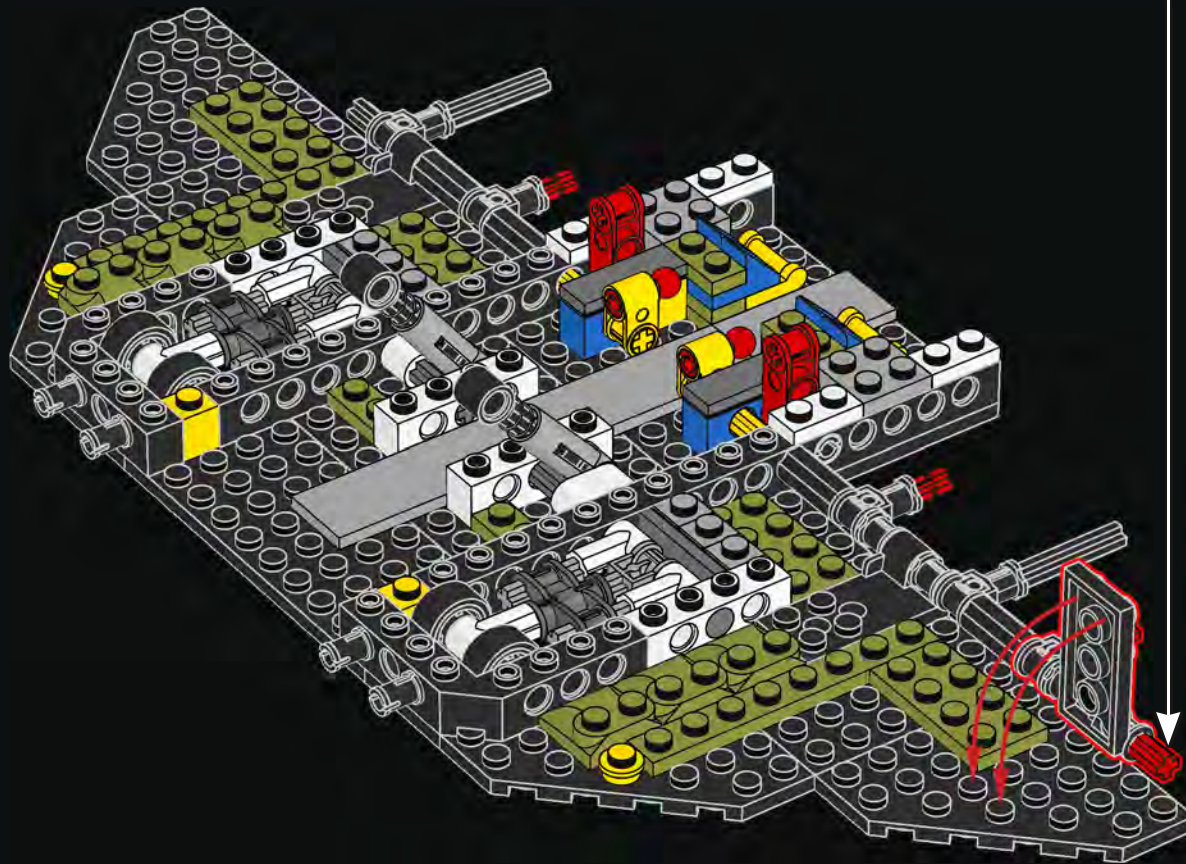
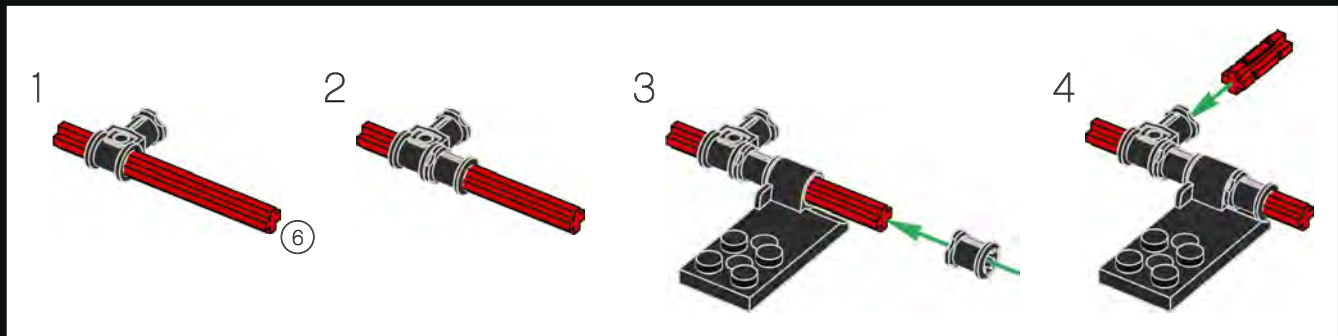


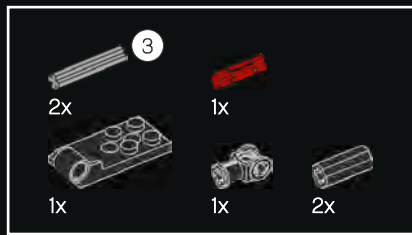
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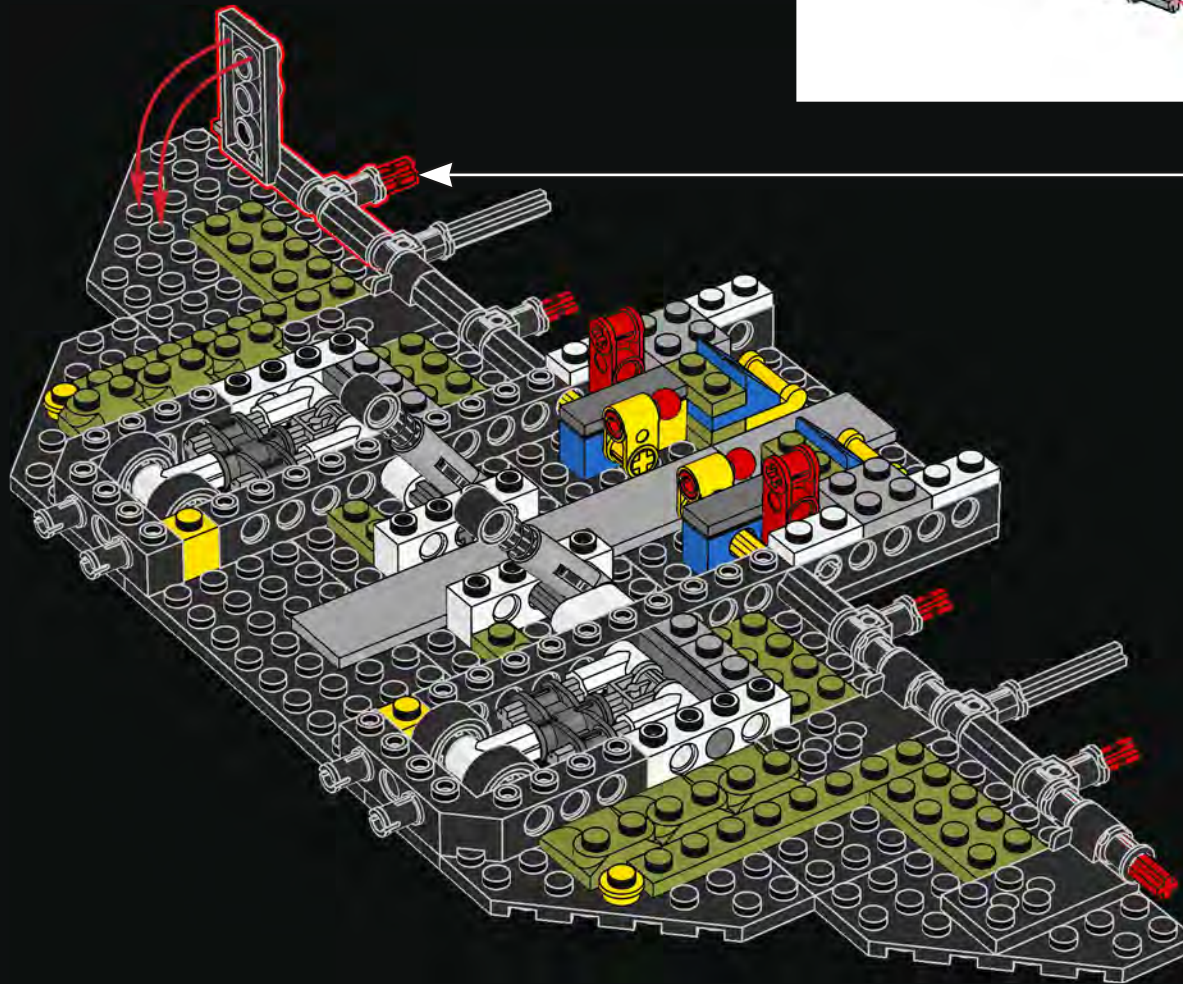
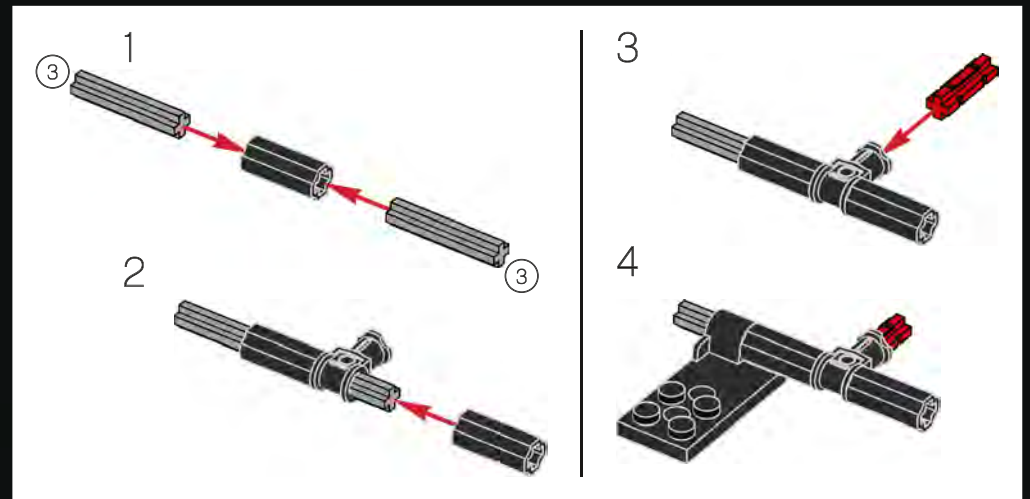


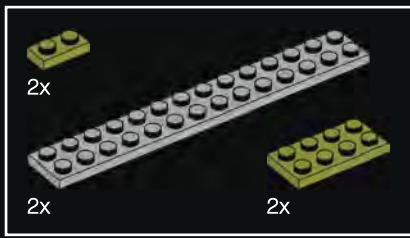
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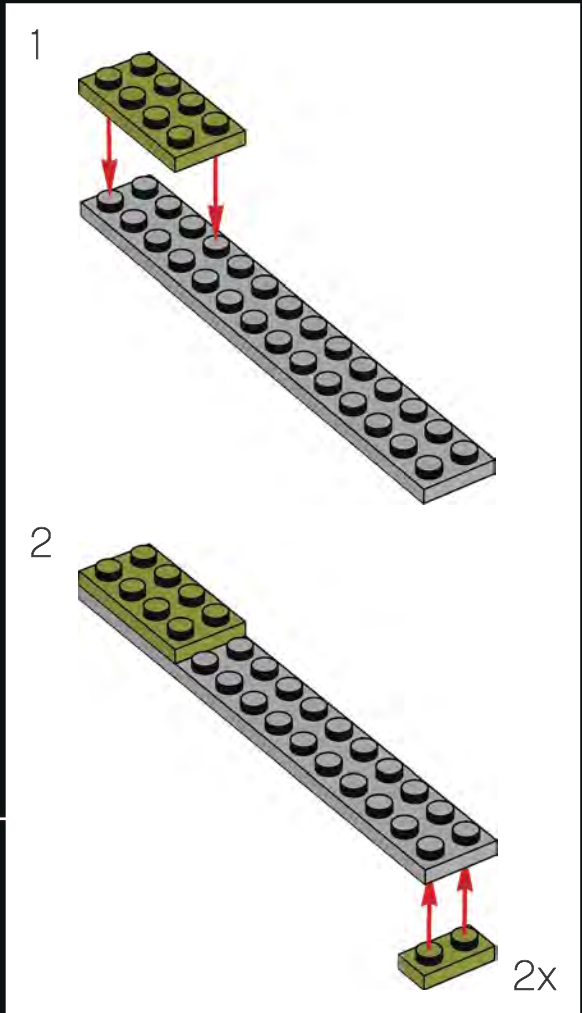
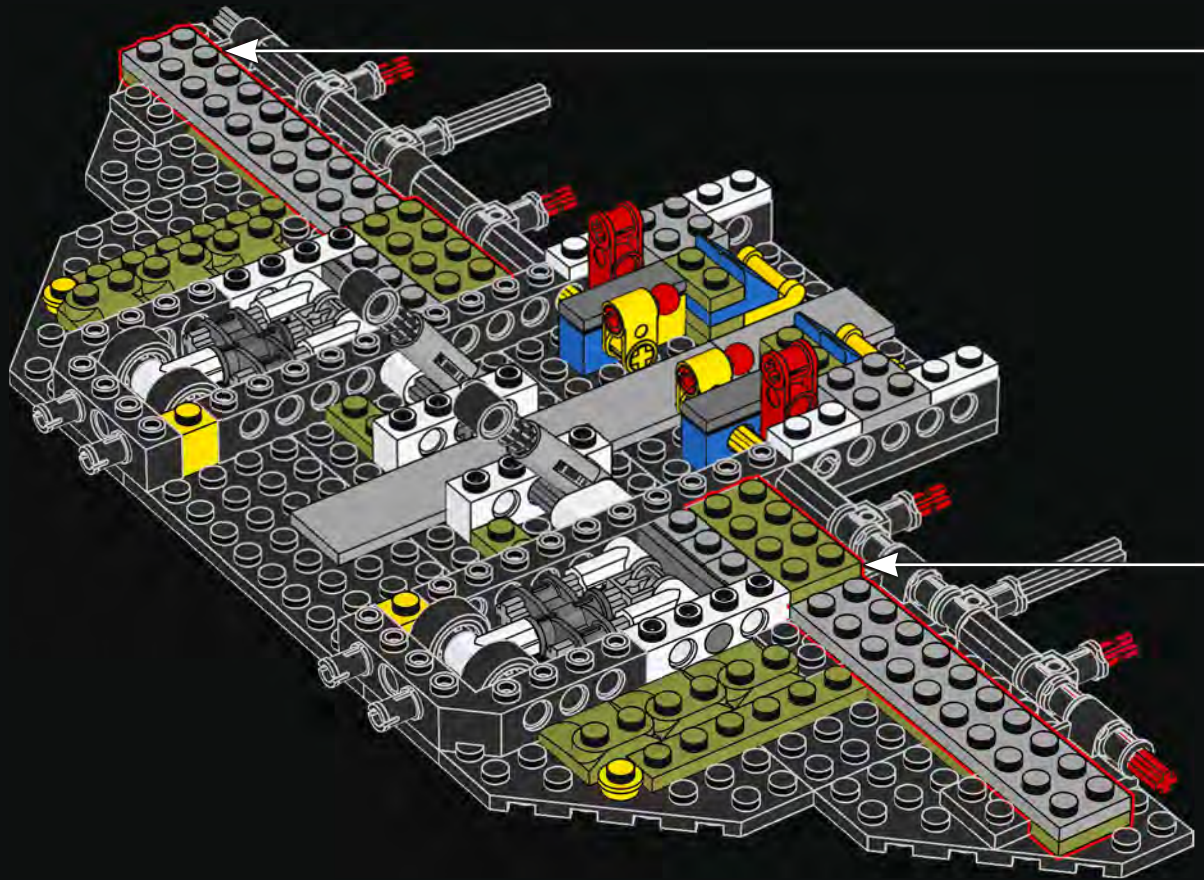


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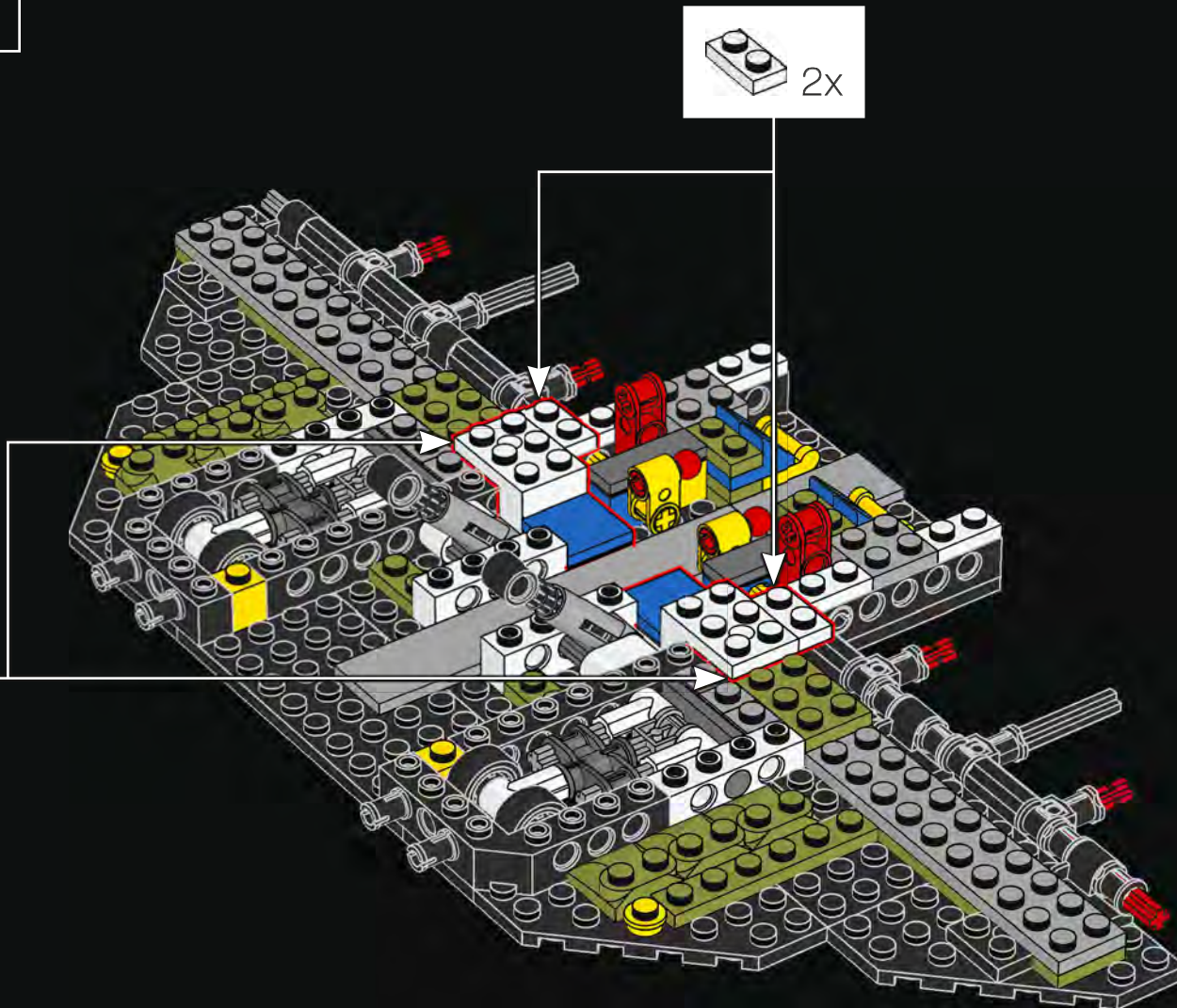
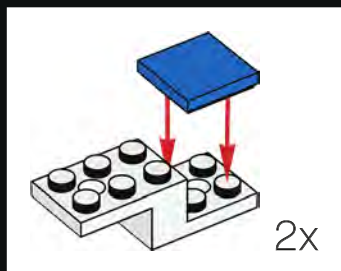


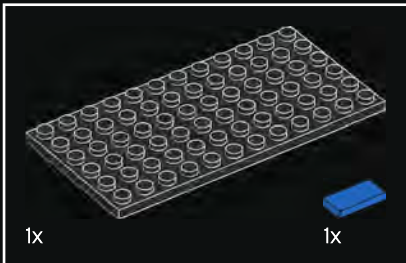
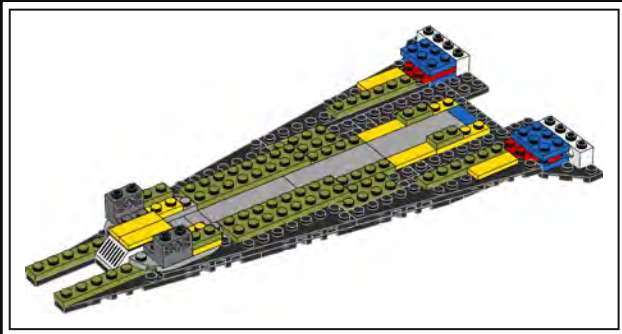
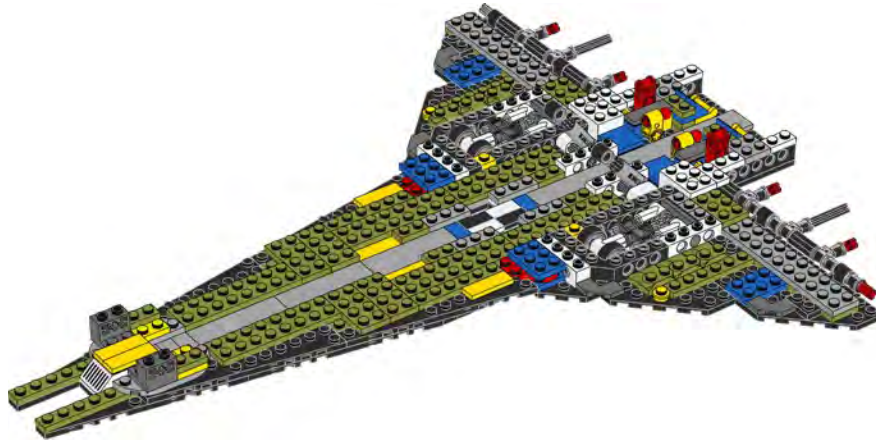
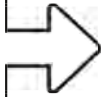
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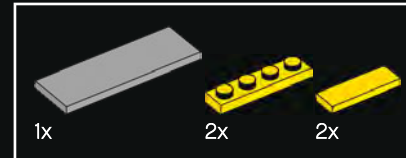
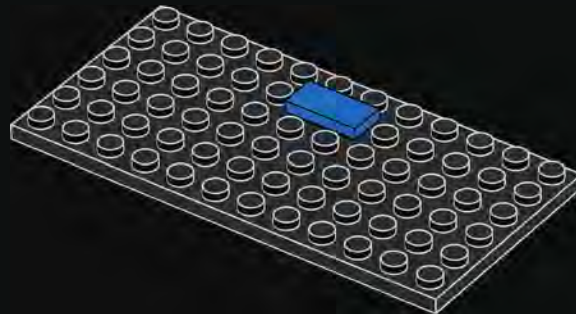


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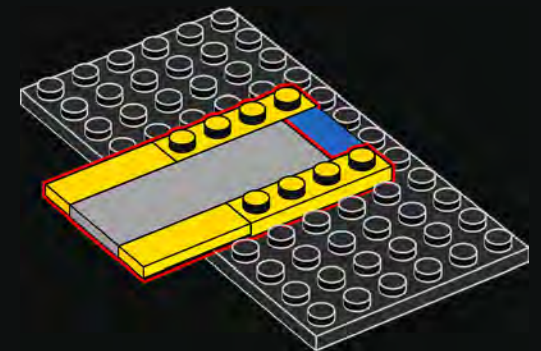




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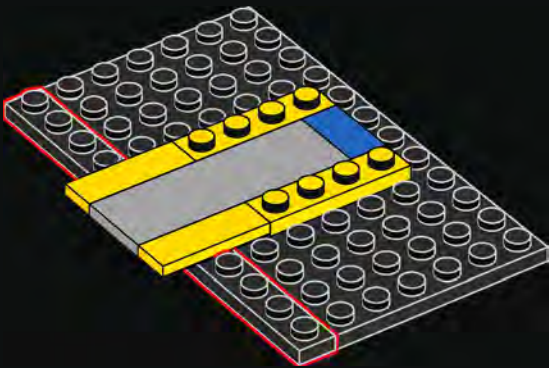


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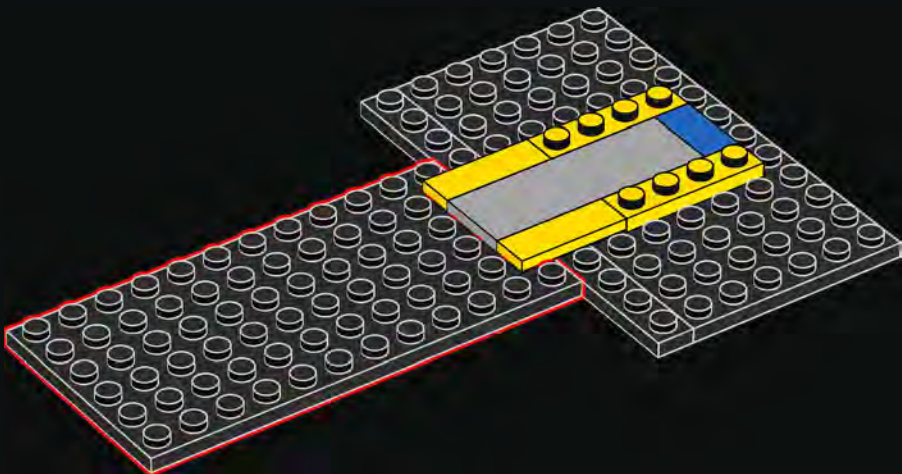


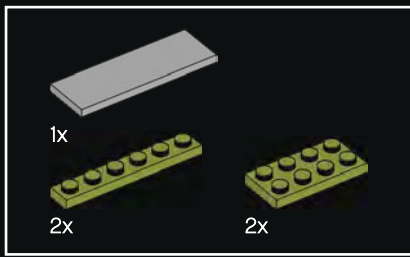


36

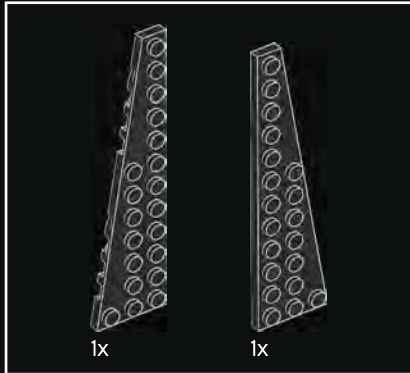
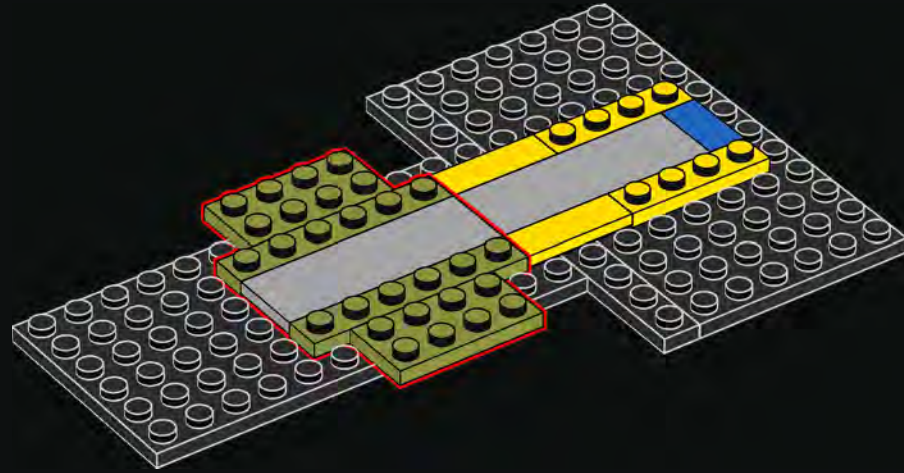


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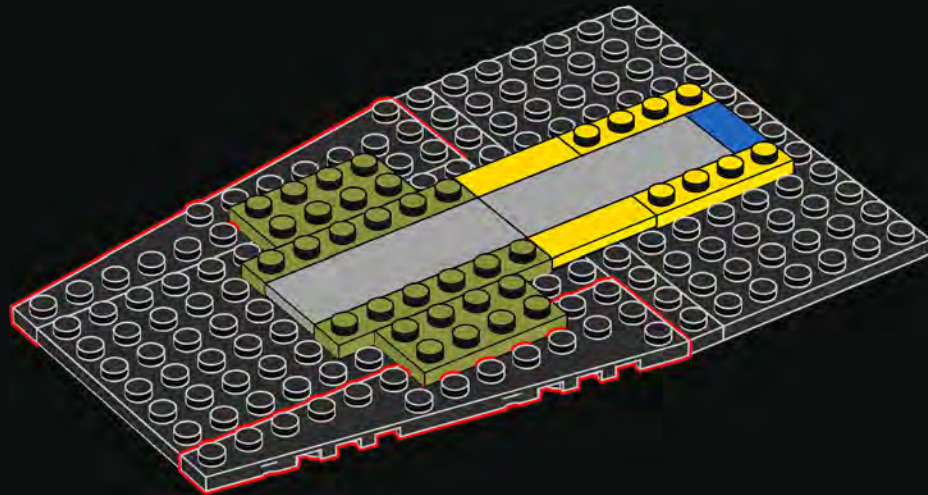


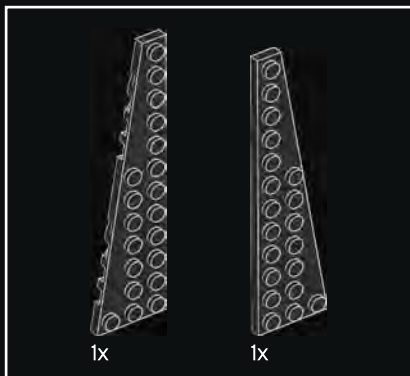


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39

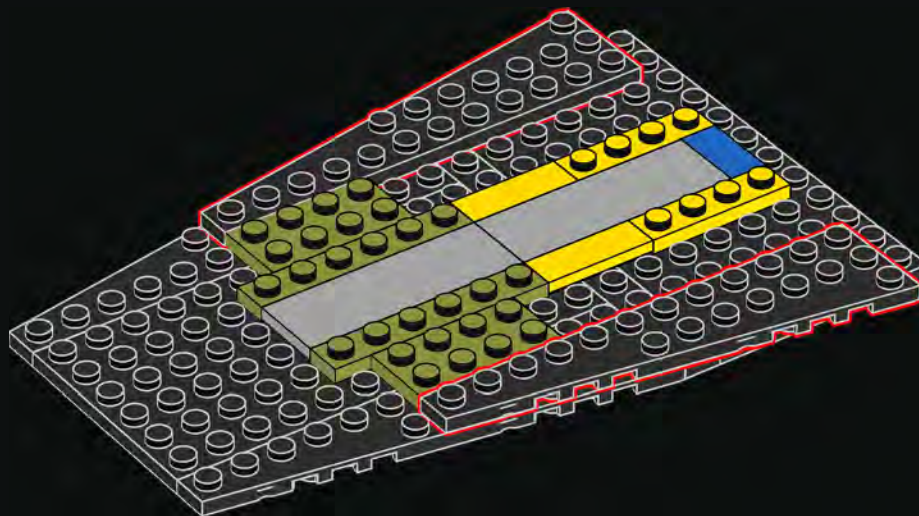


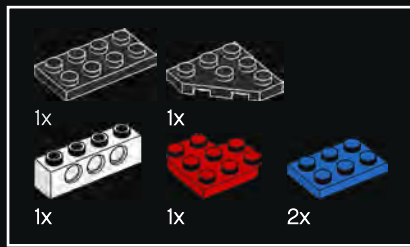


DID YOU KNOW?

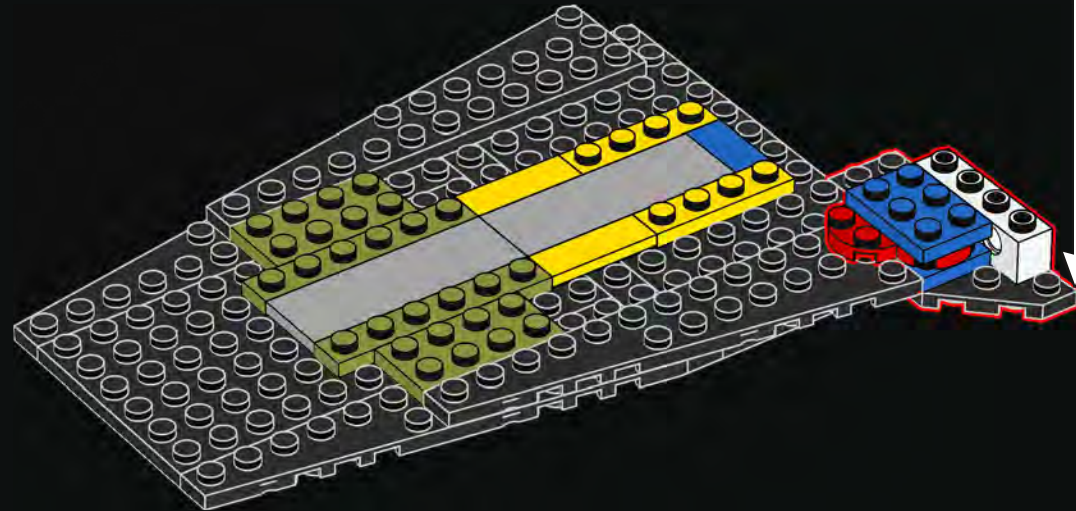
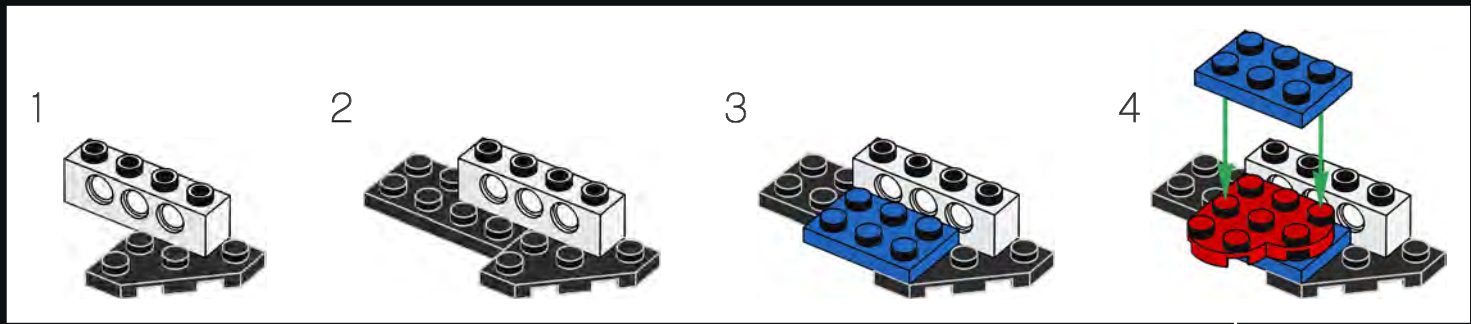
With an orbital velocity of 28,158 km/h (17,500 mph), the Space Shuttle crew travelled fast enough to see a sunrise or sunset every 45 minutes.

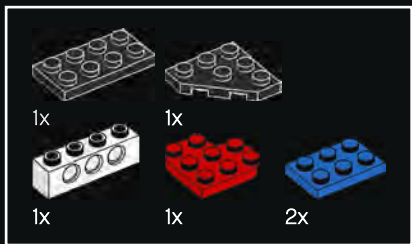
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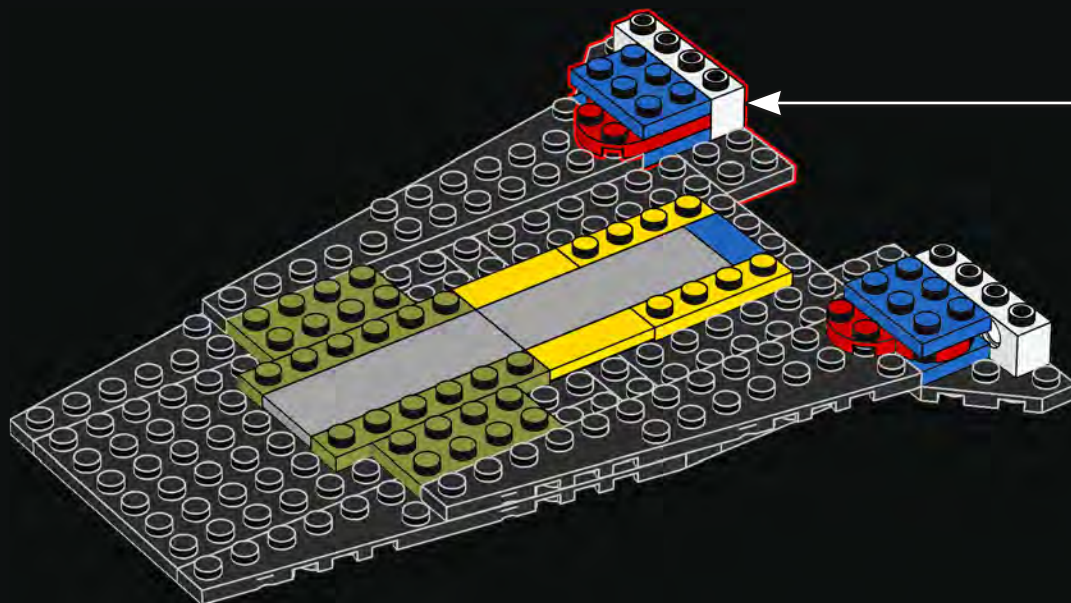


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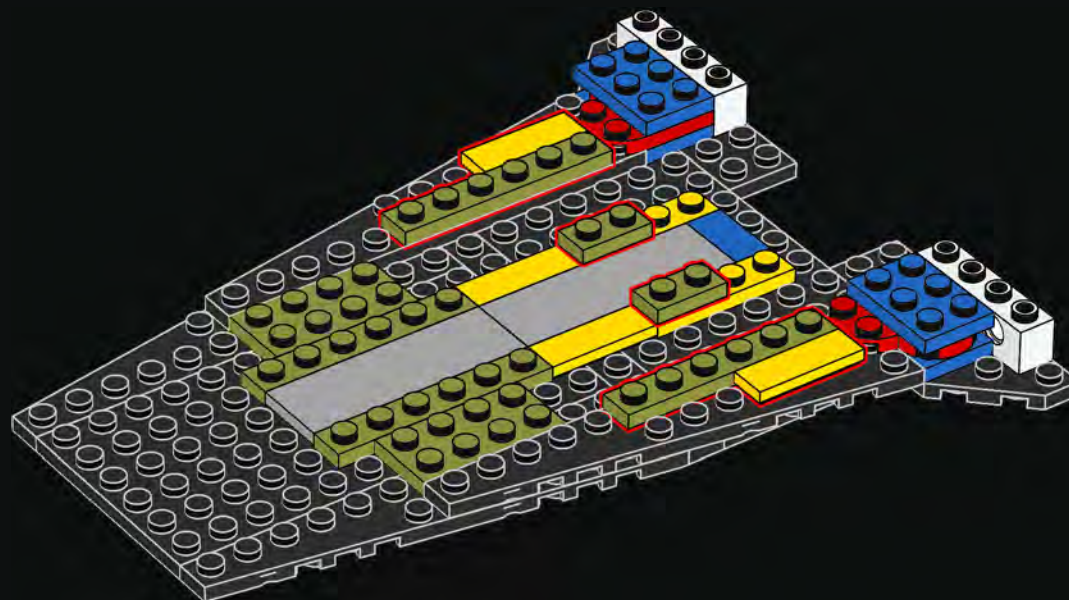


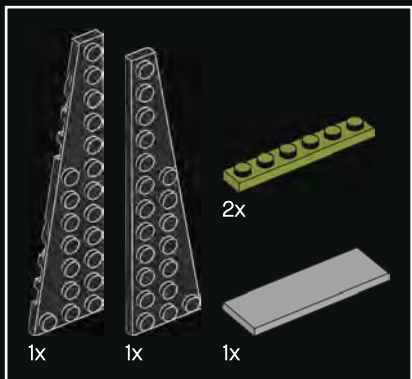
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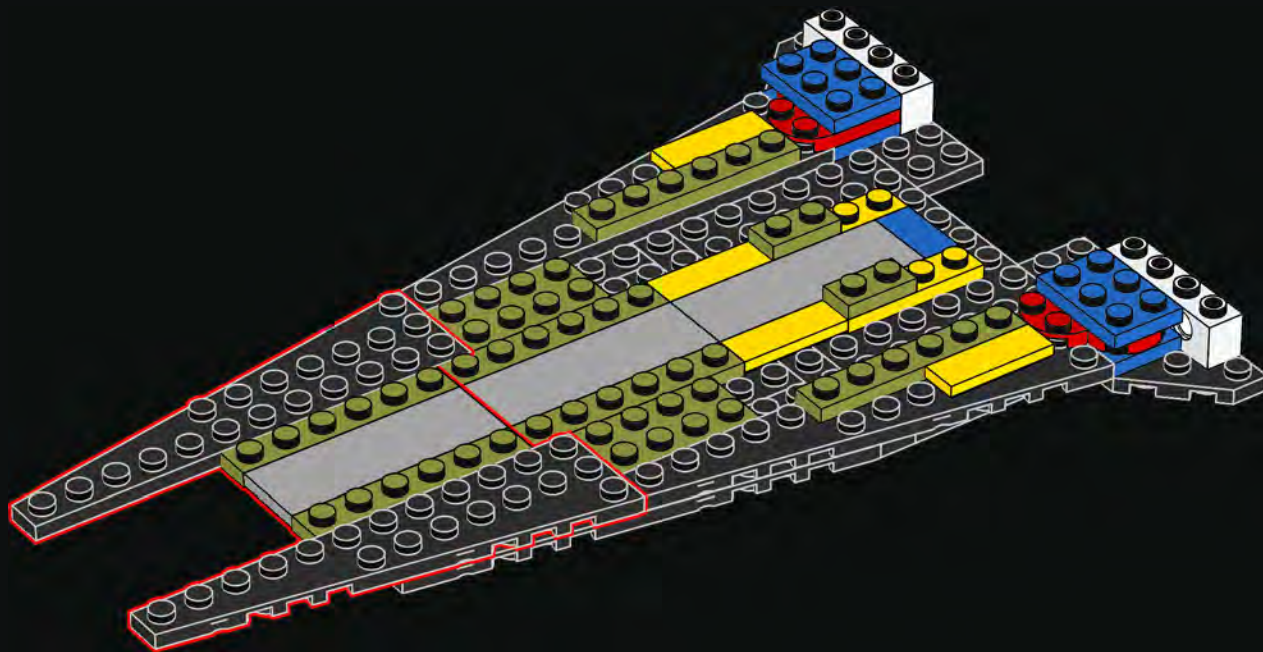


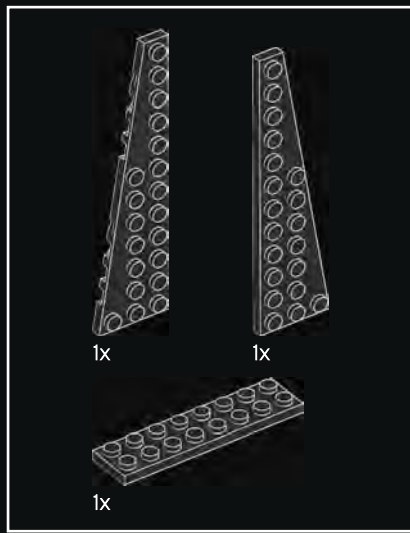
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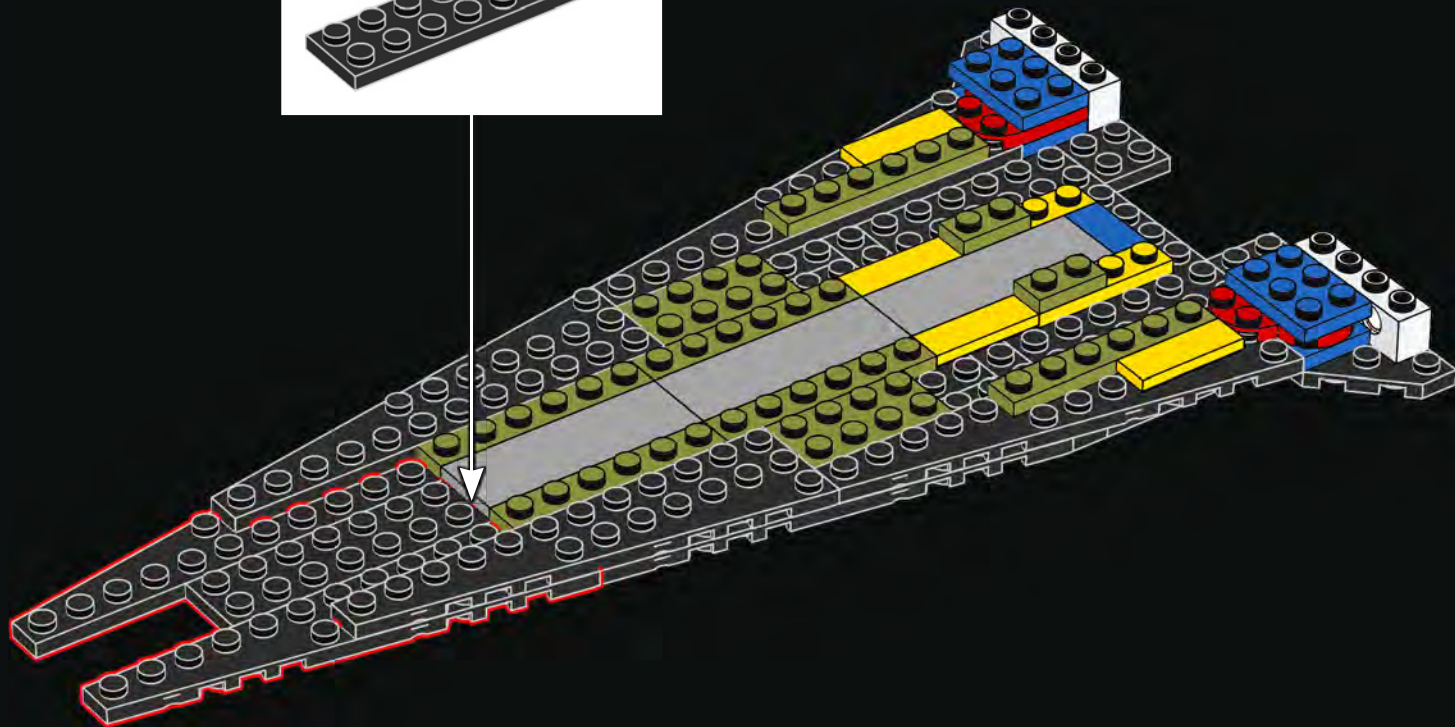
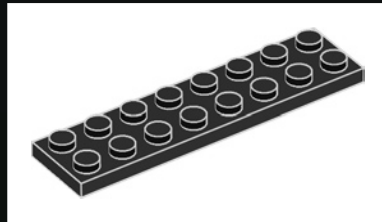


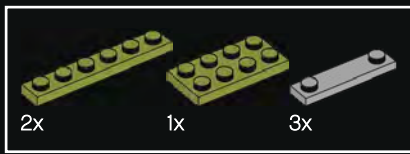
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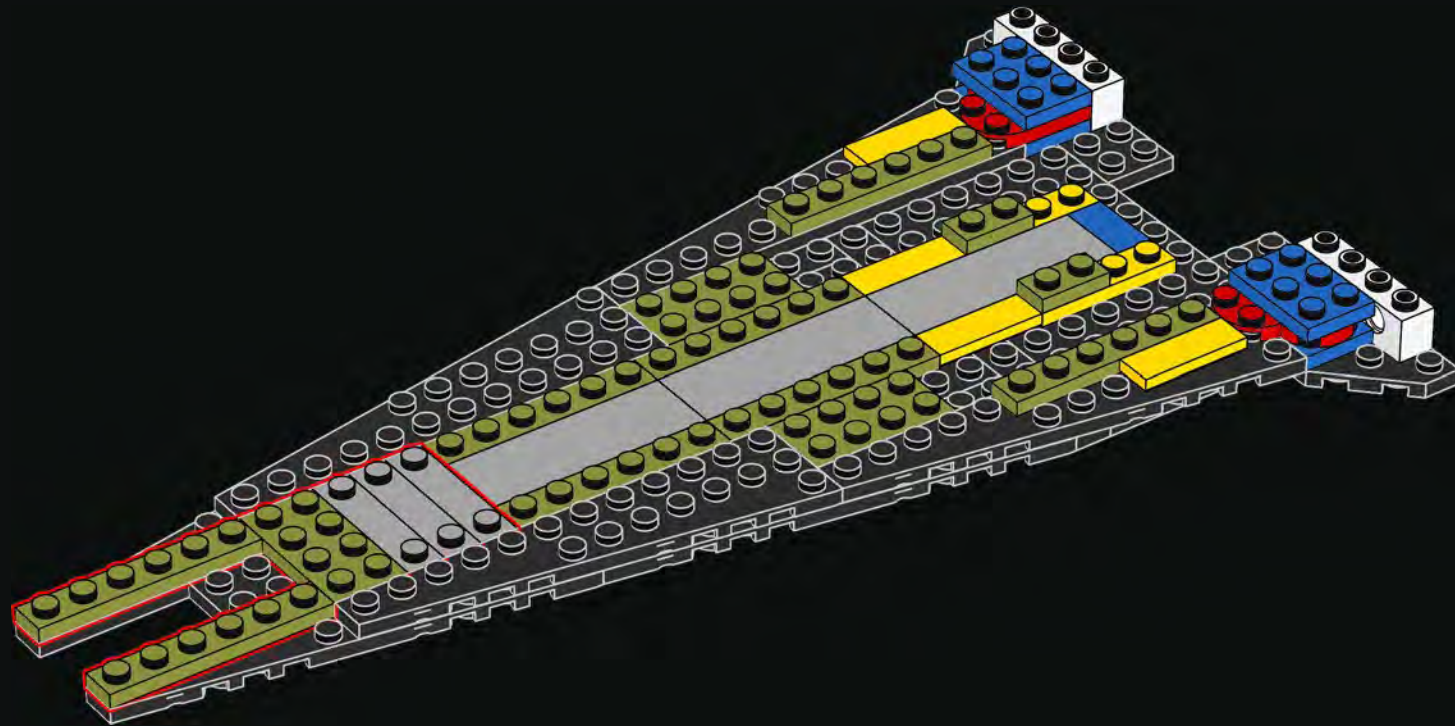


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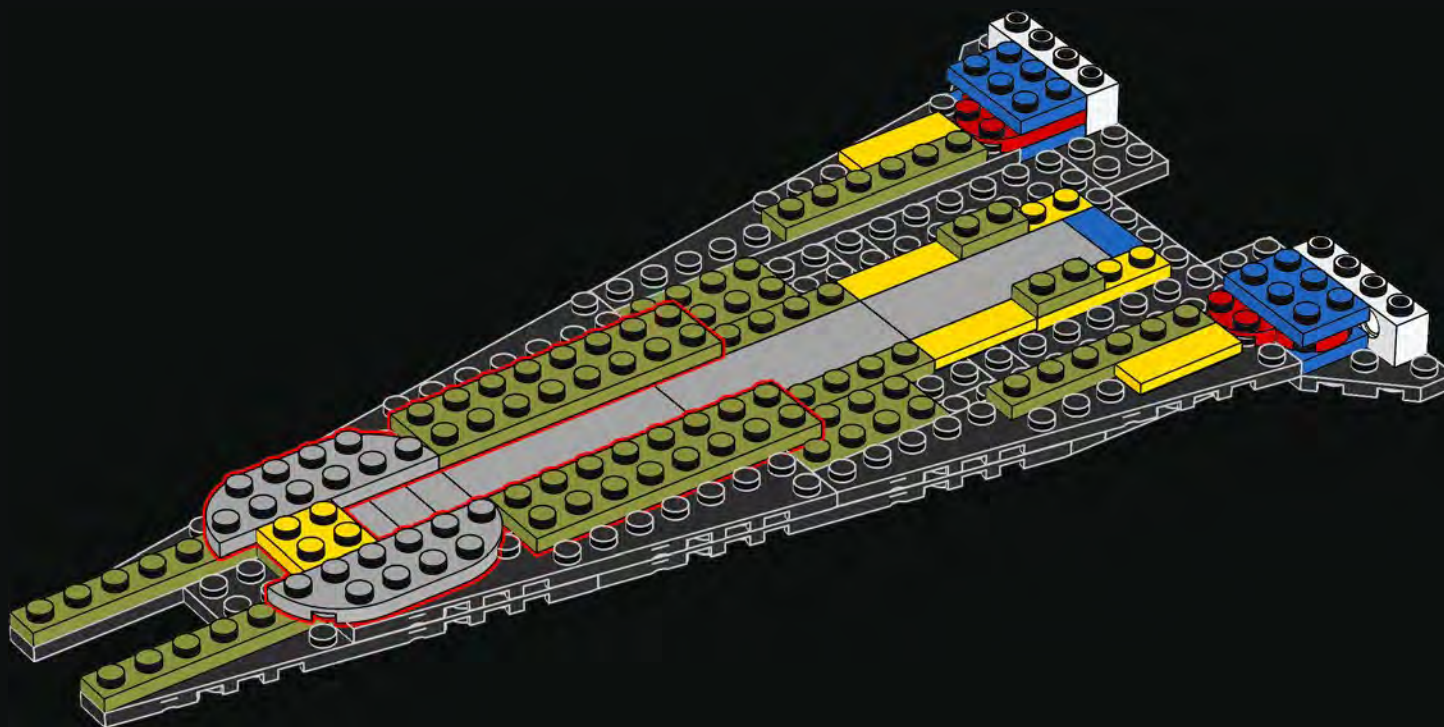


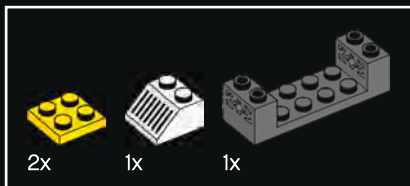
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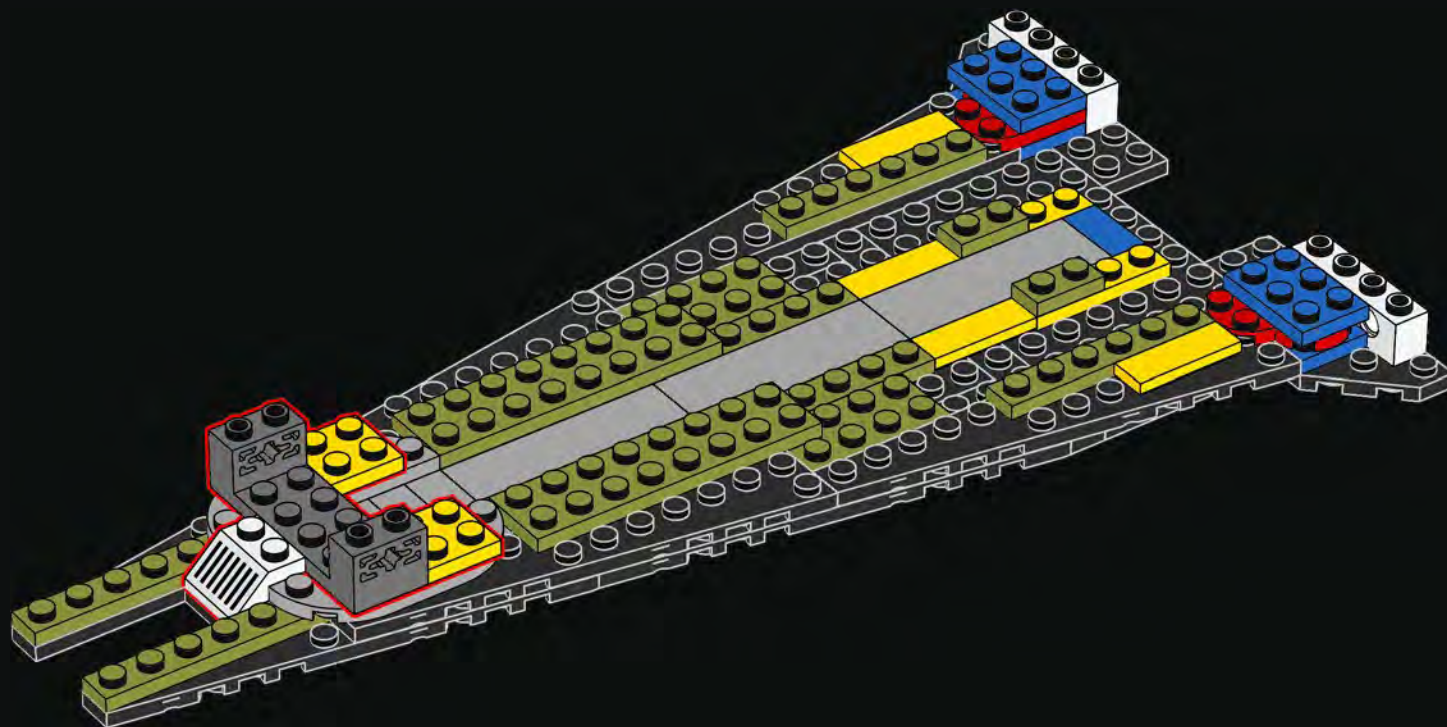


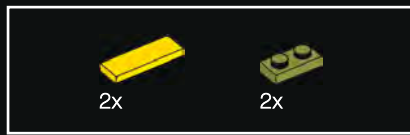
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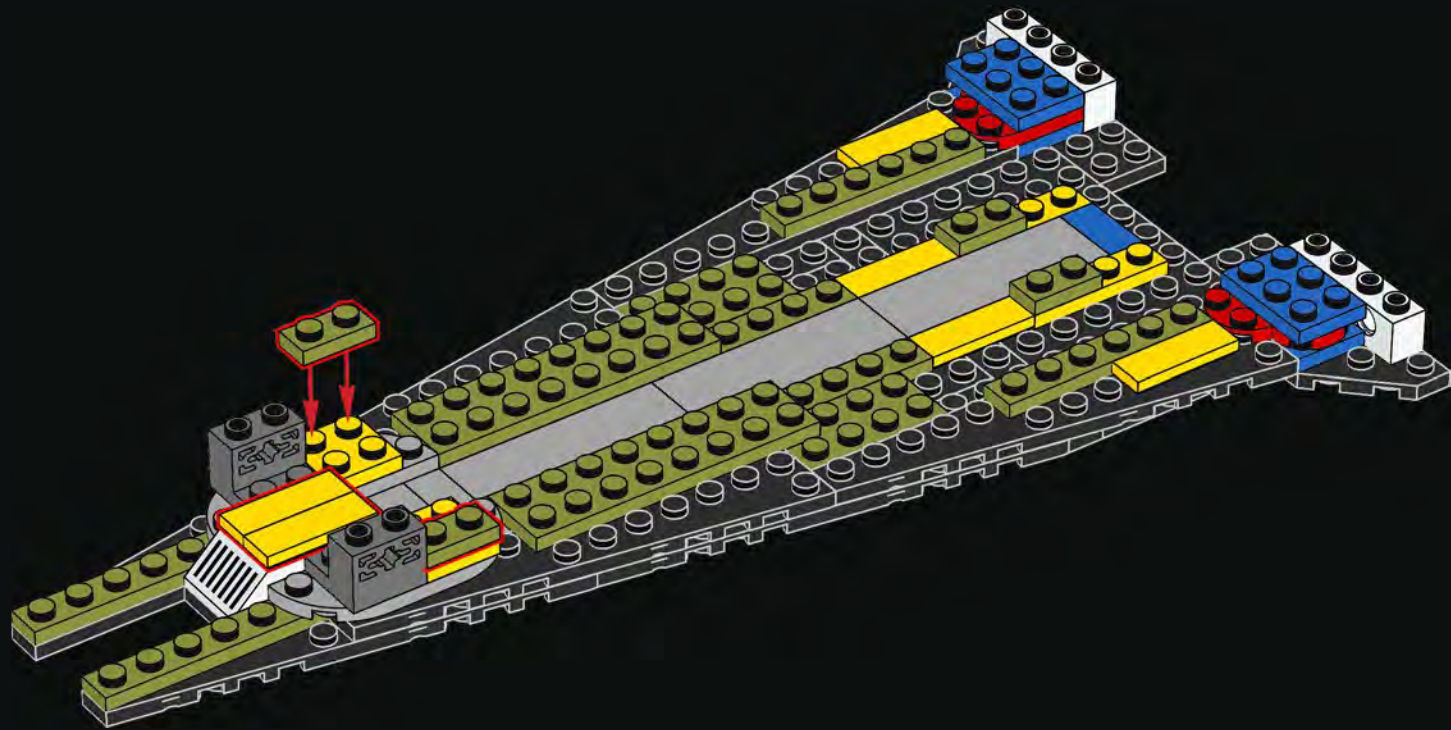


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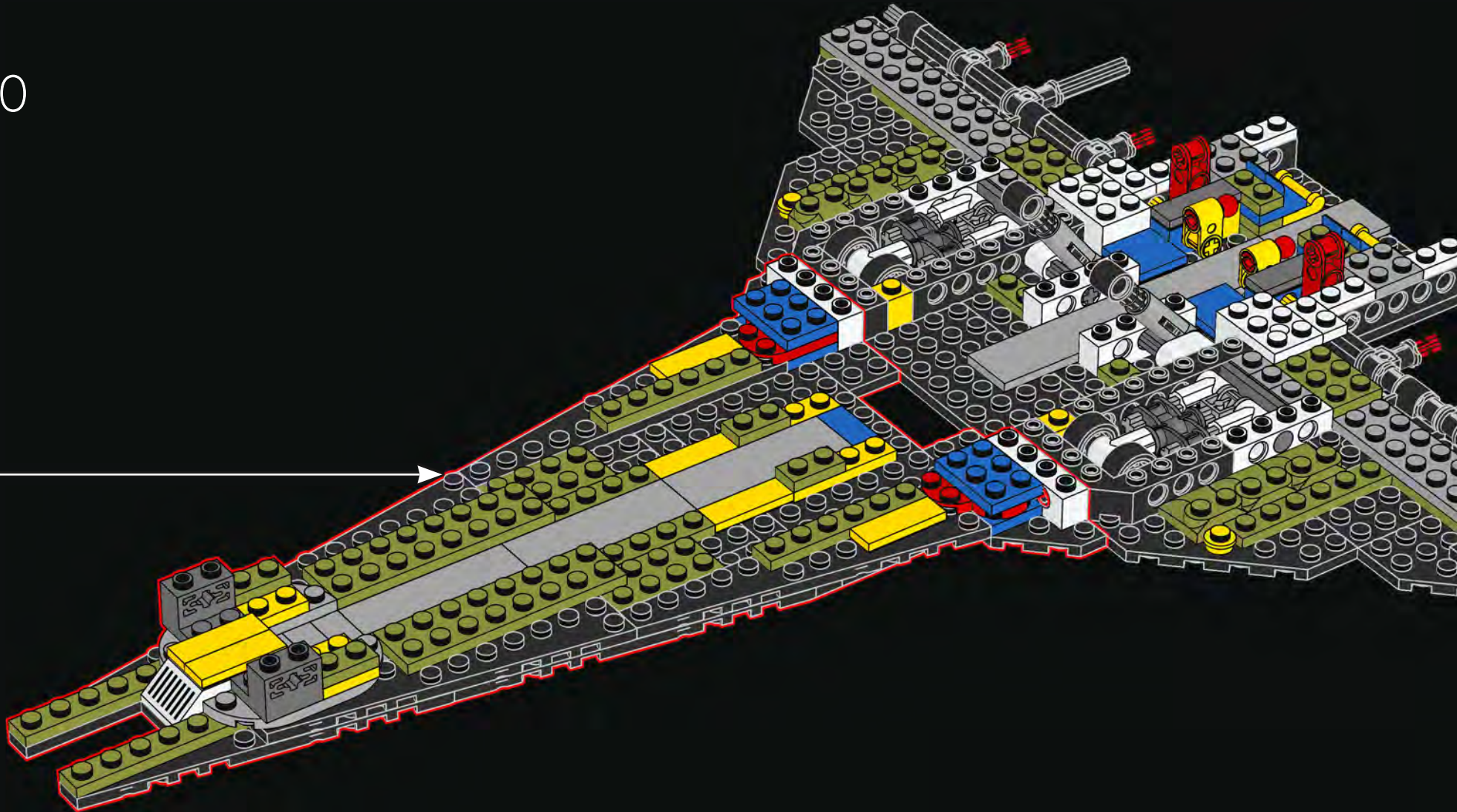


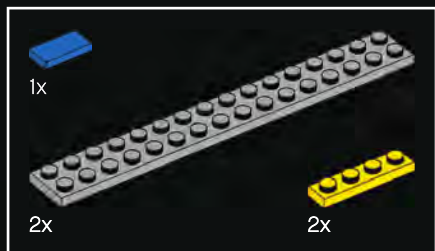


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50



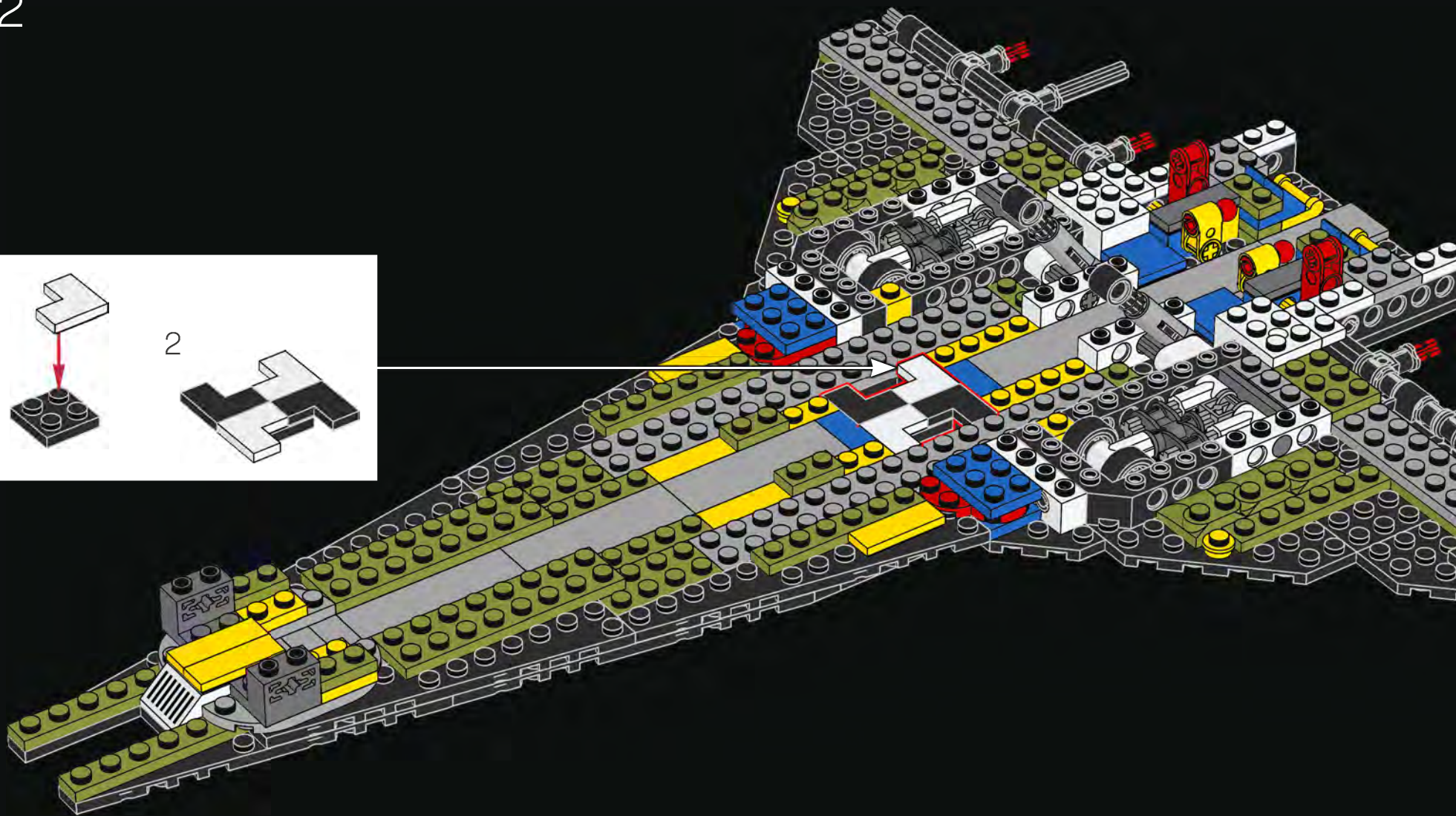
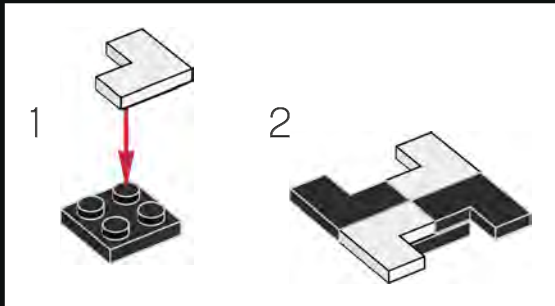


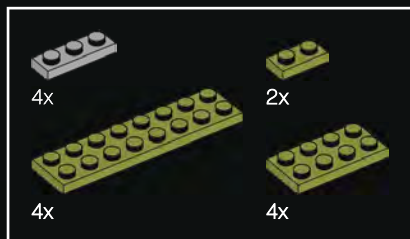
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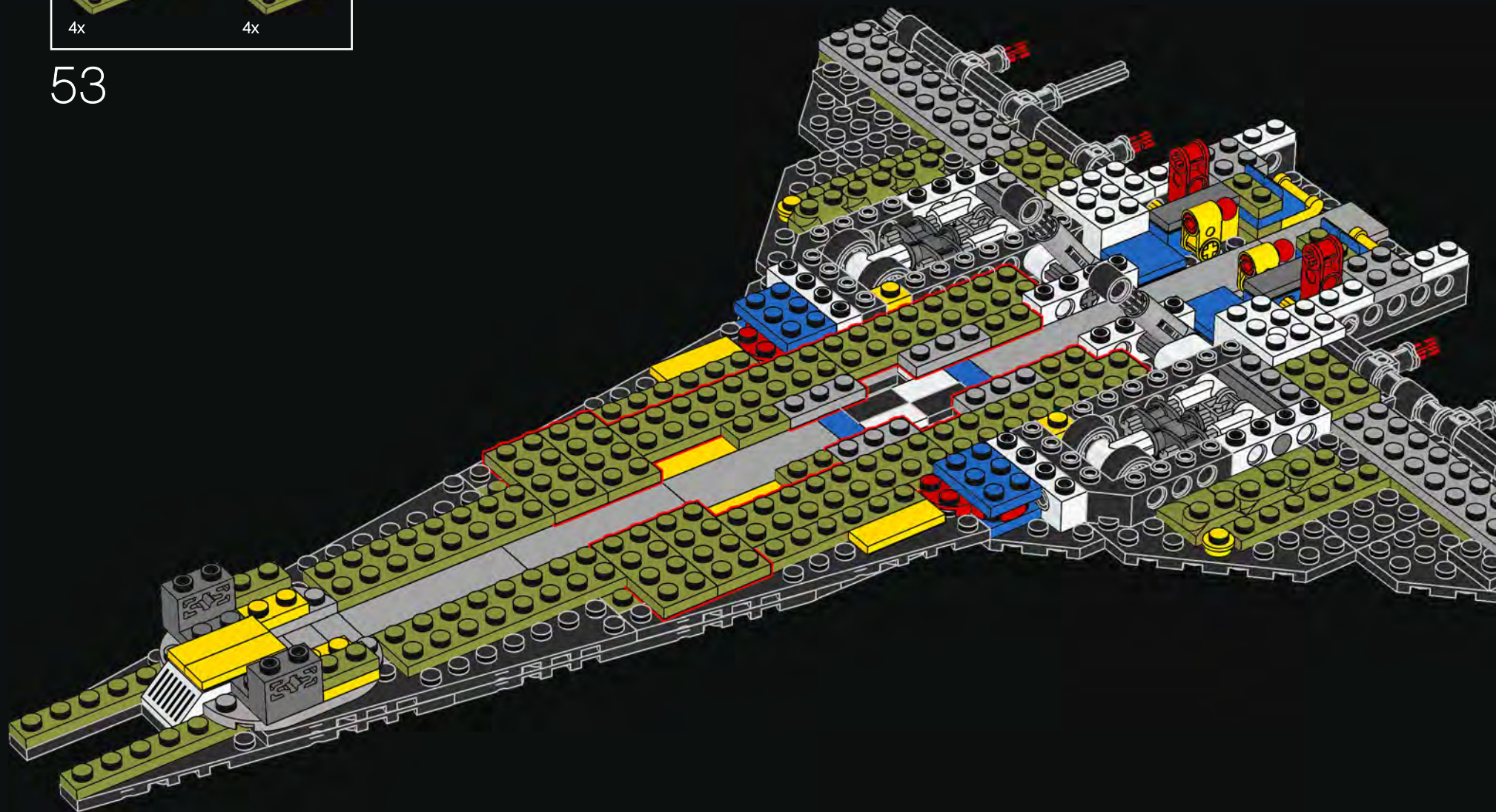


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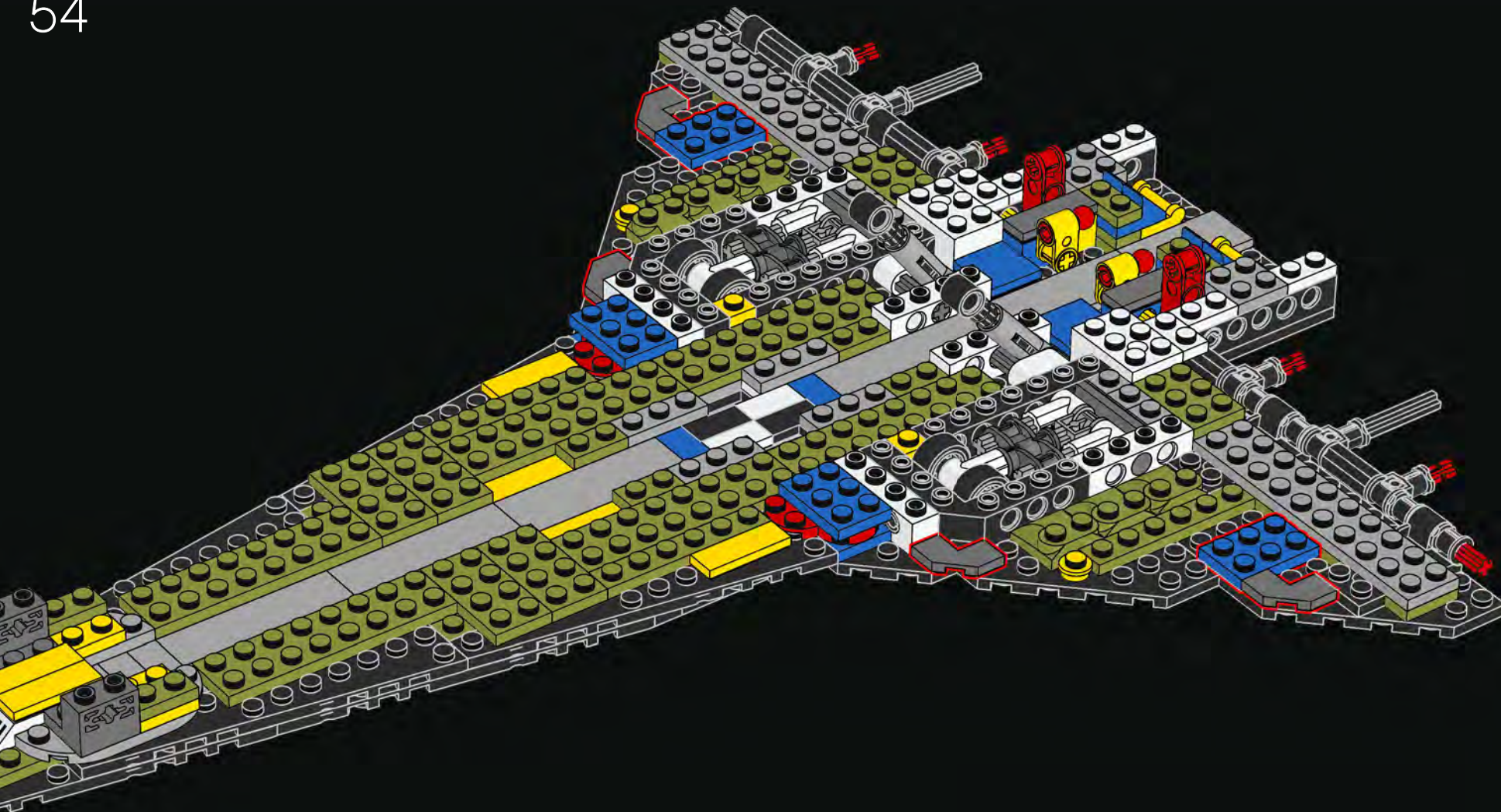


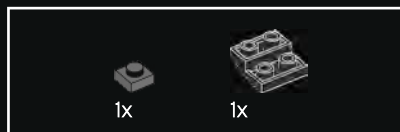
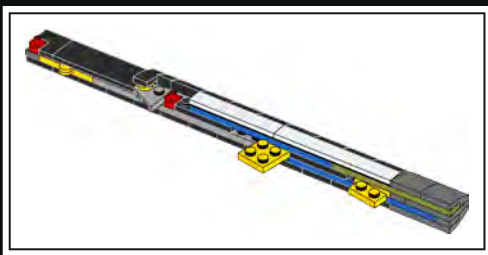
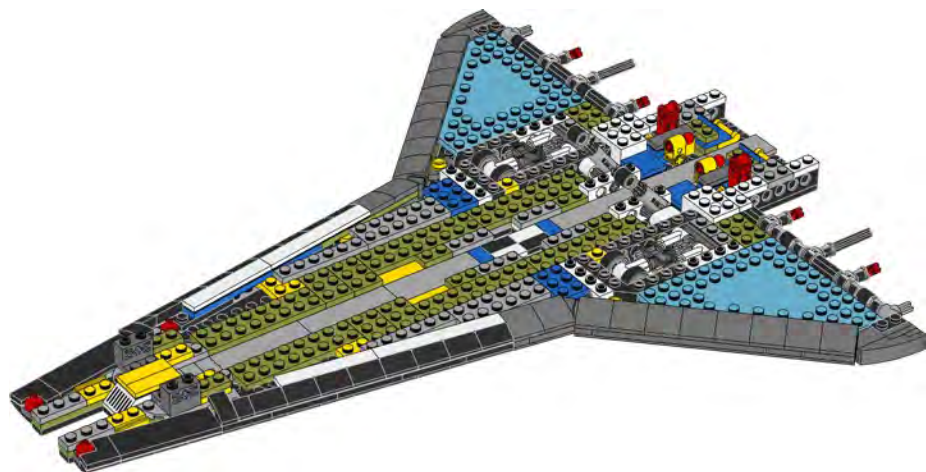
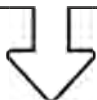
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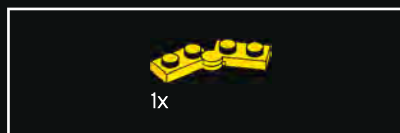


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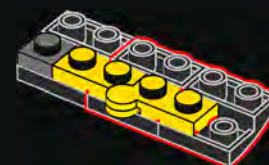
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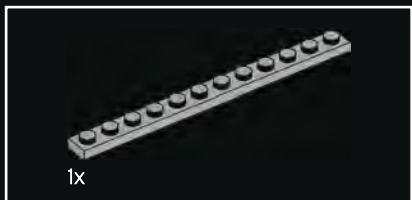


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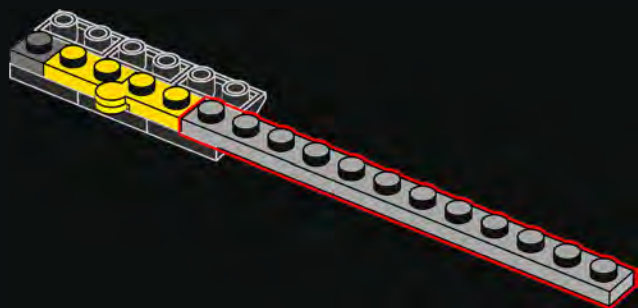


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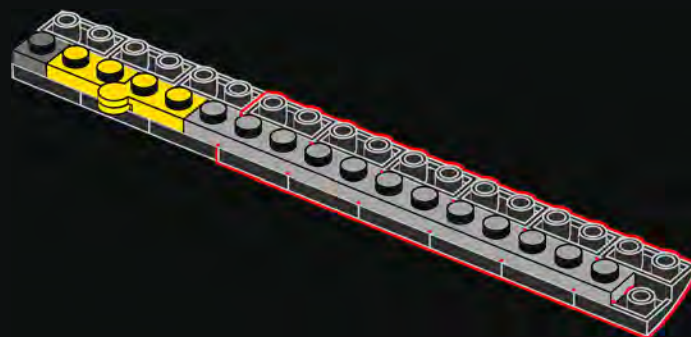


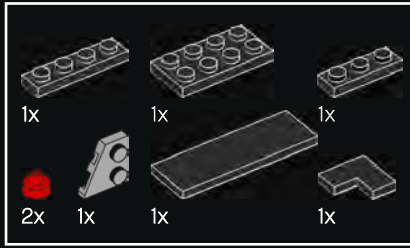


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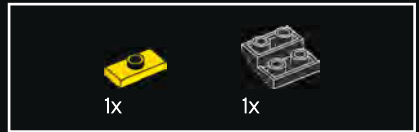
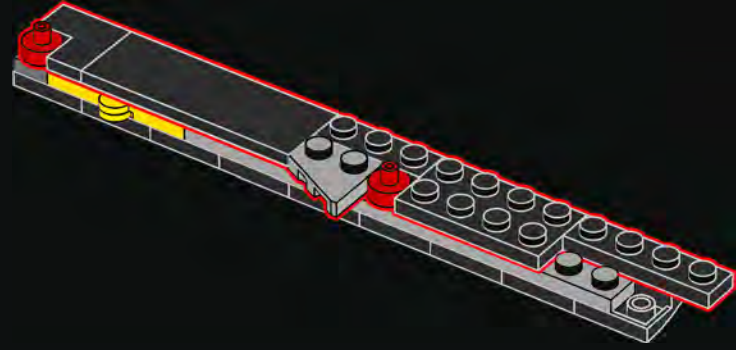


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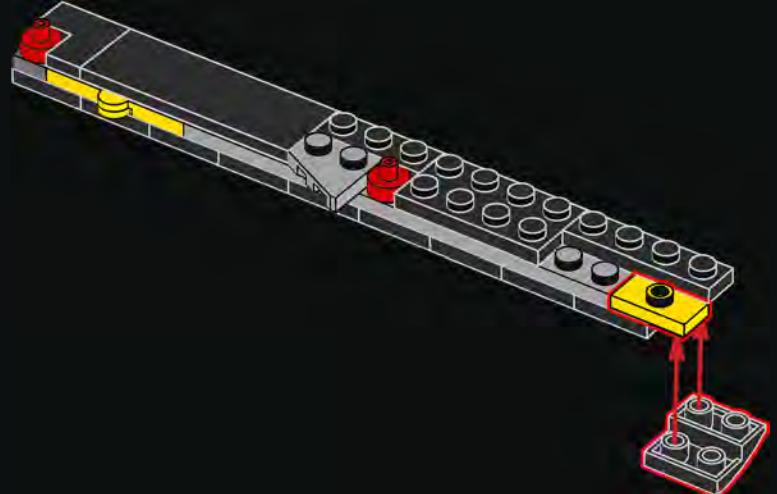


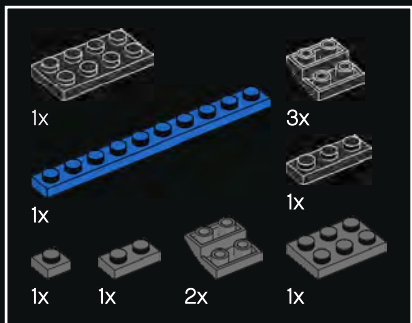


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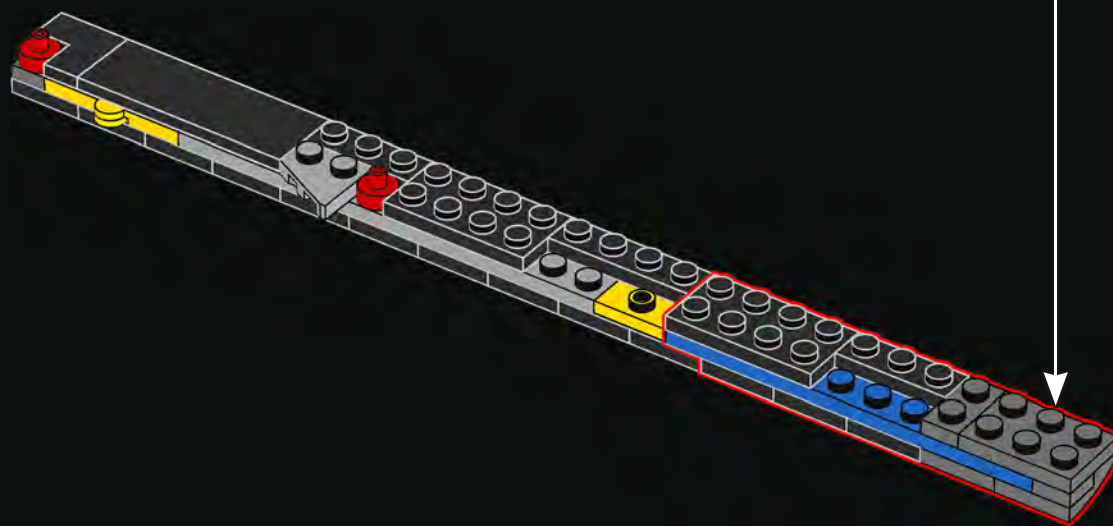
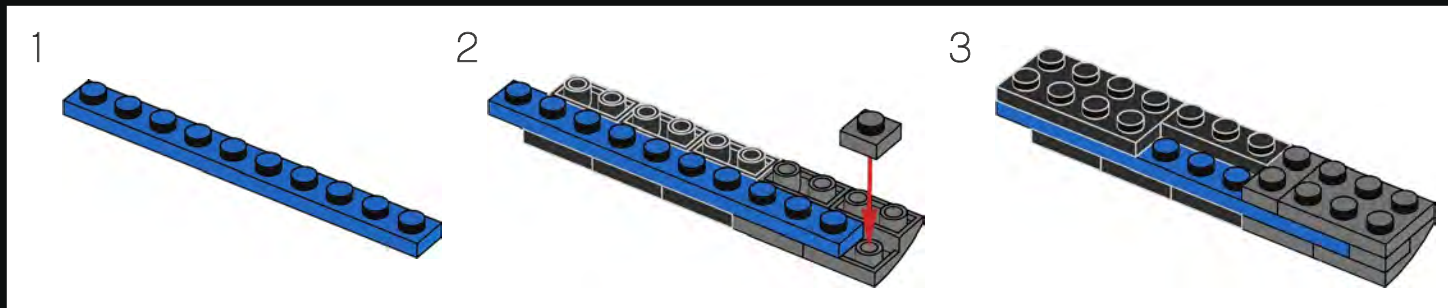


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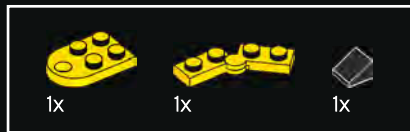
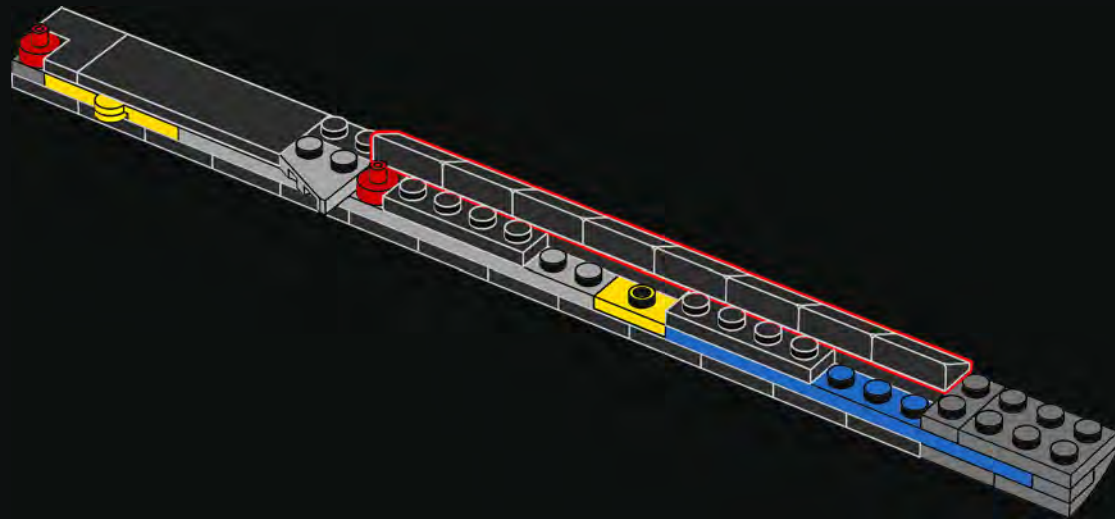


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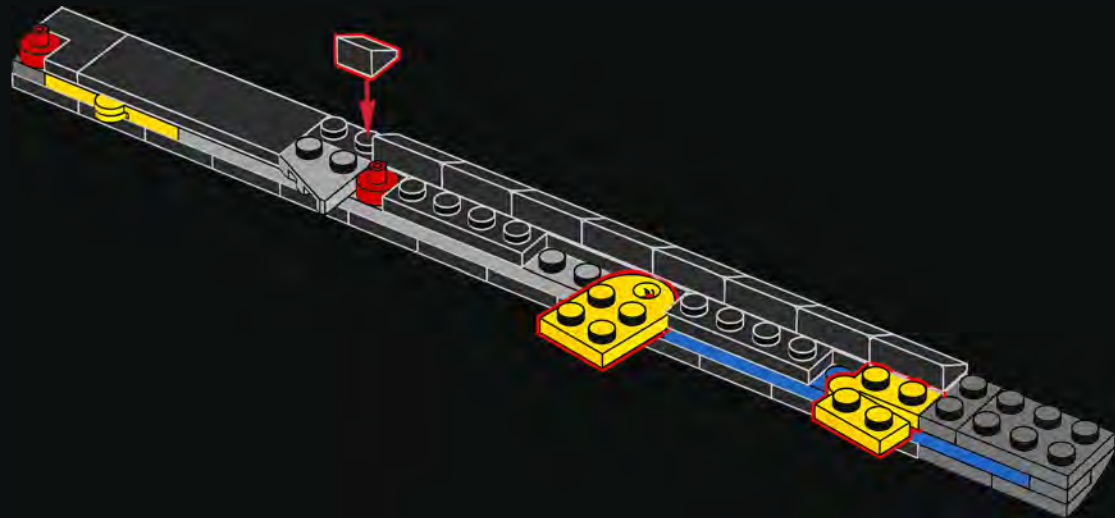


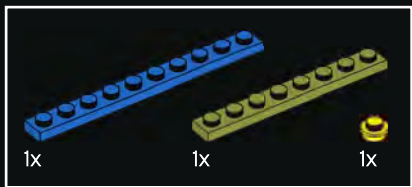


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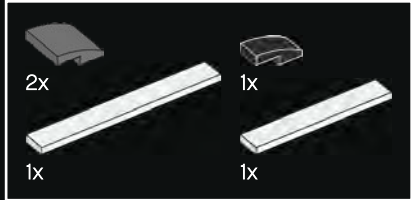
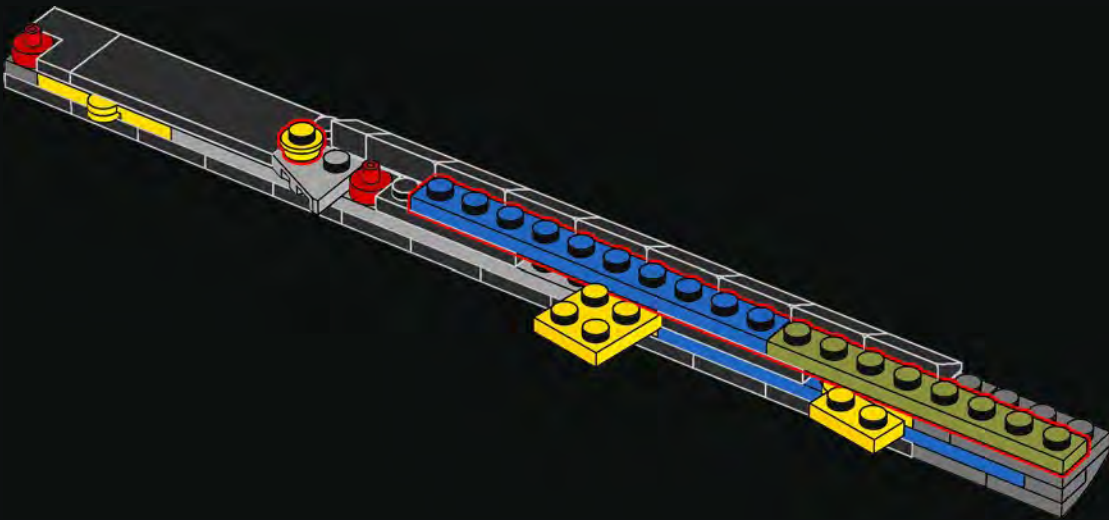


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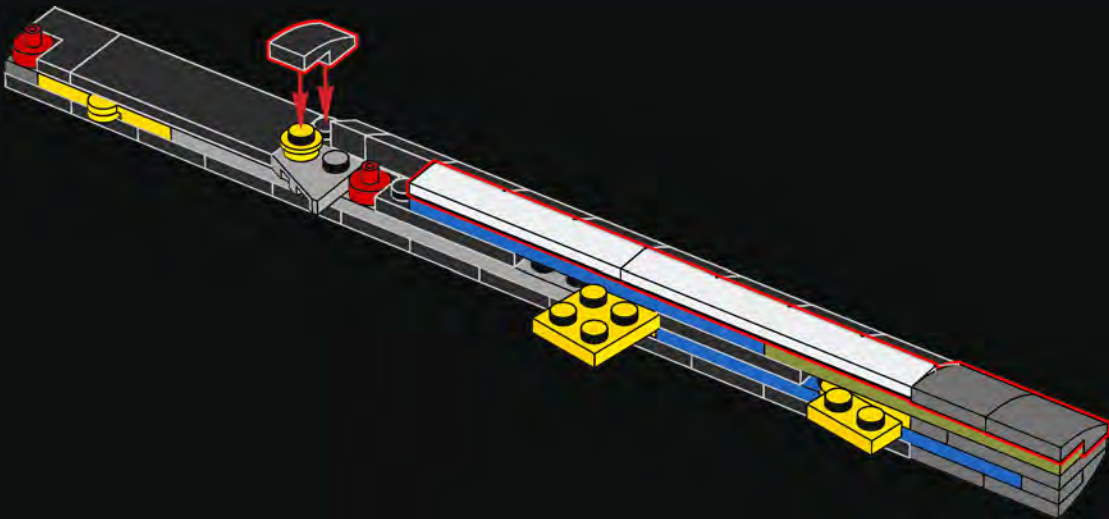




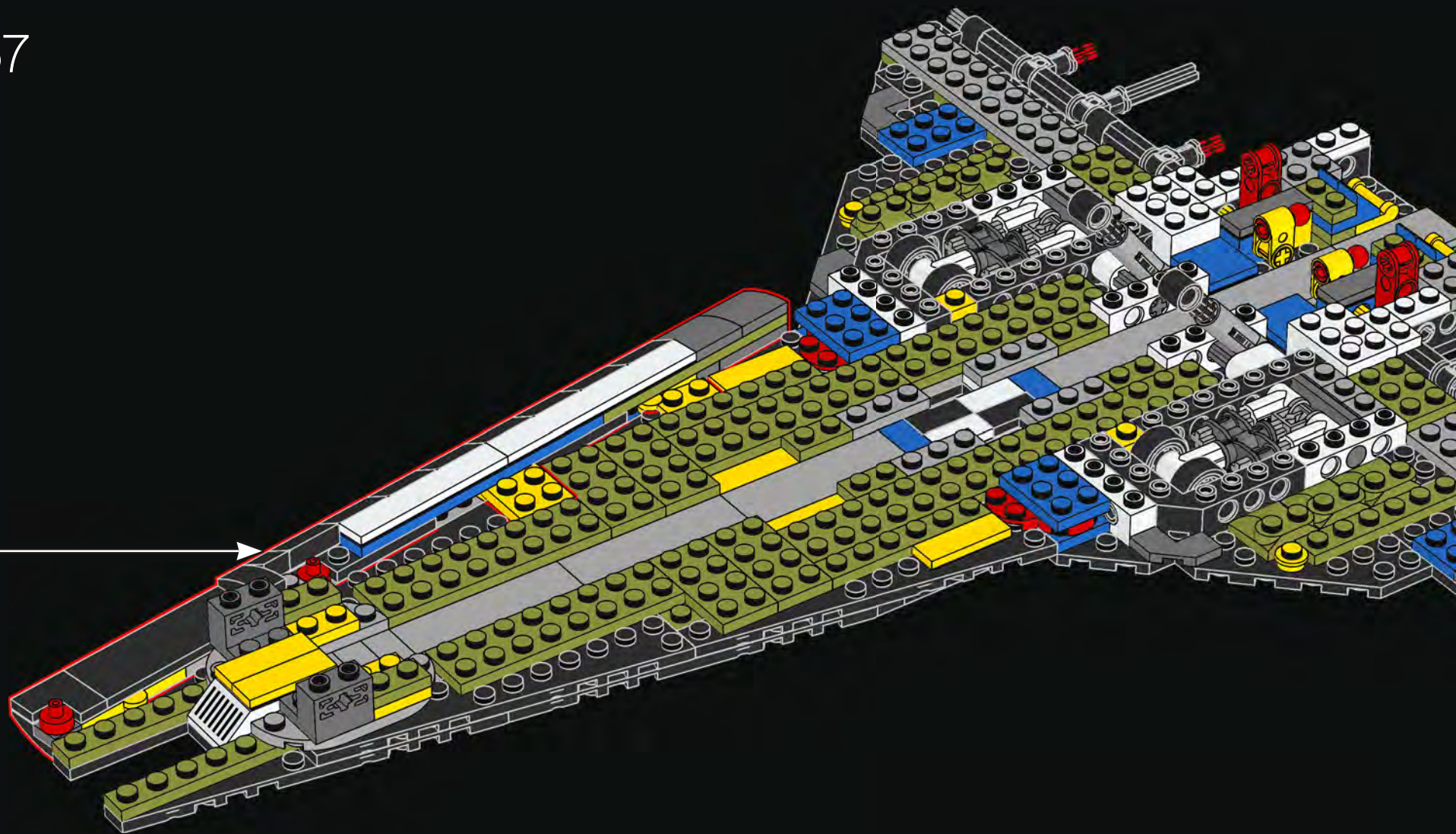
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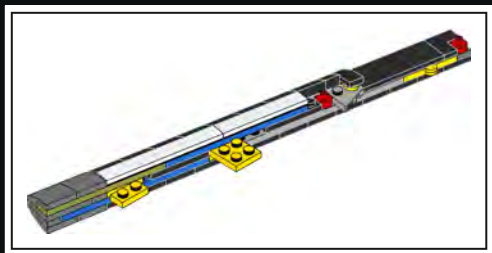


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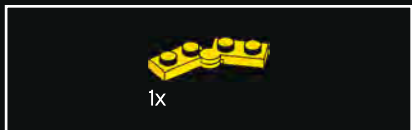
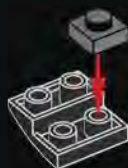


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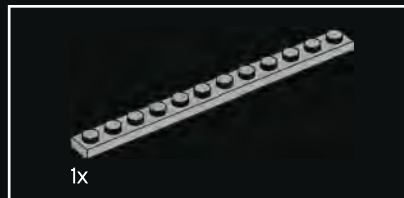
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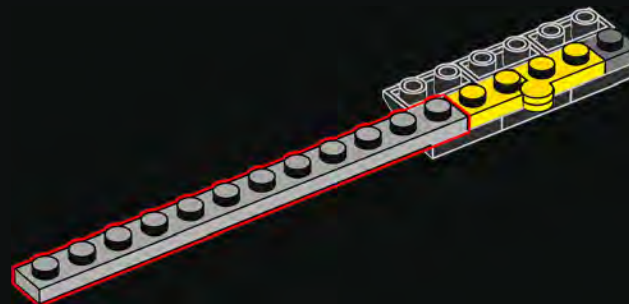
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70

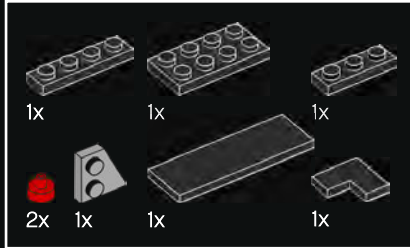
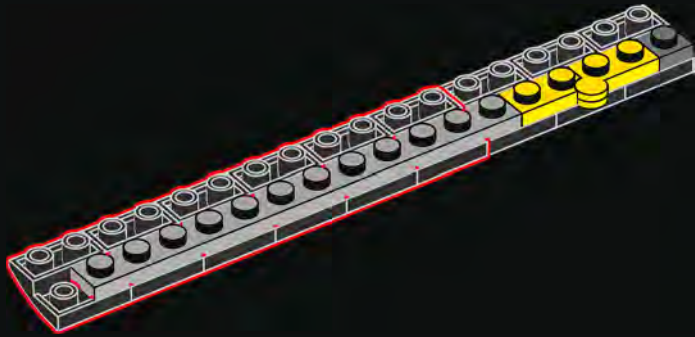


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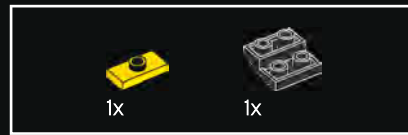
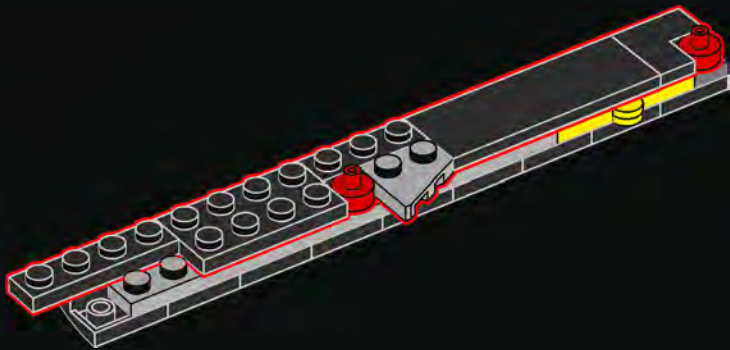




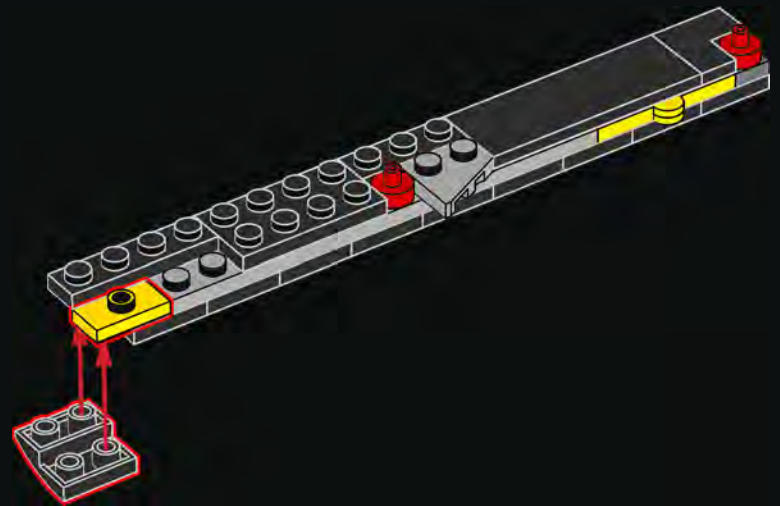
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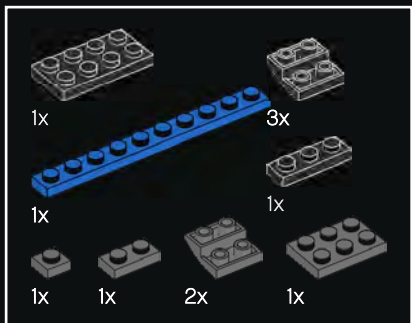


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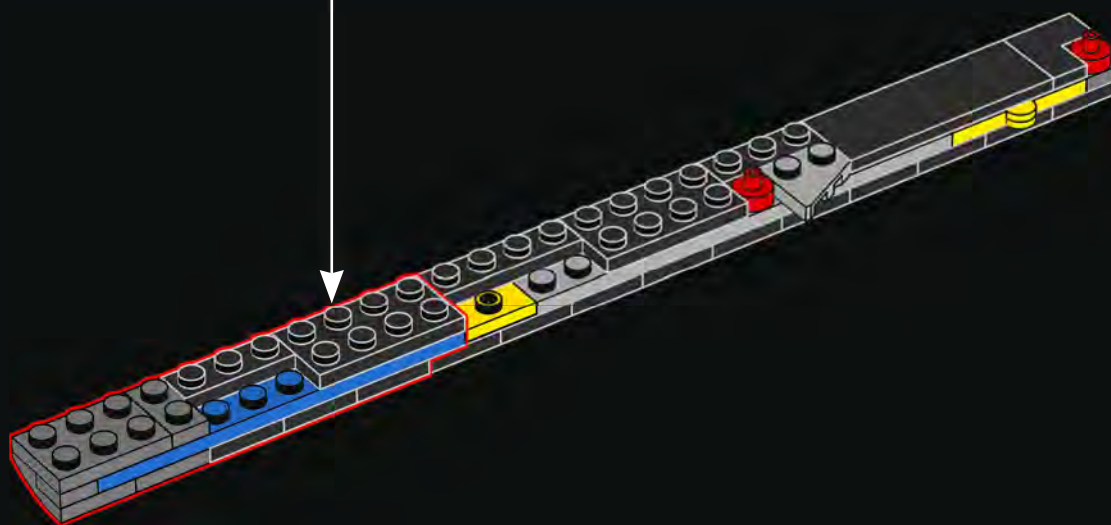
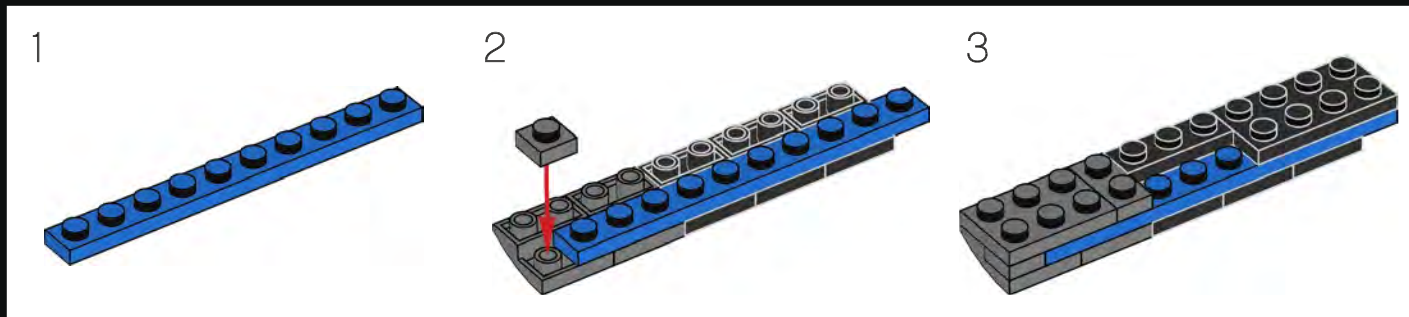


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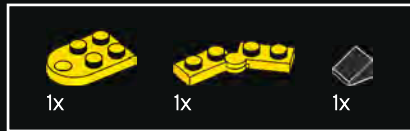
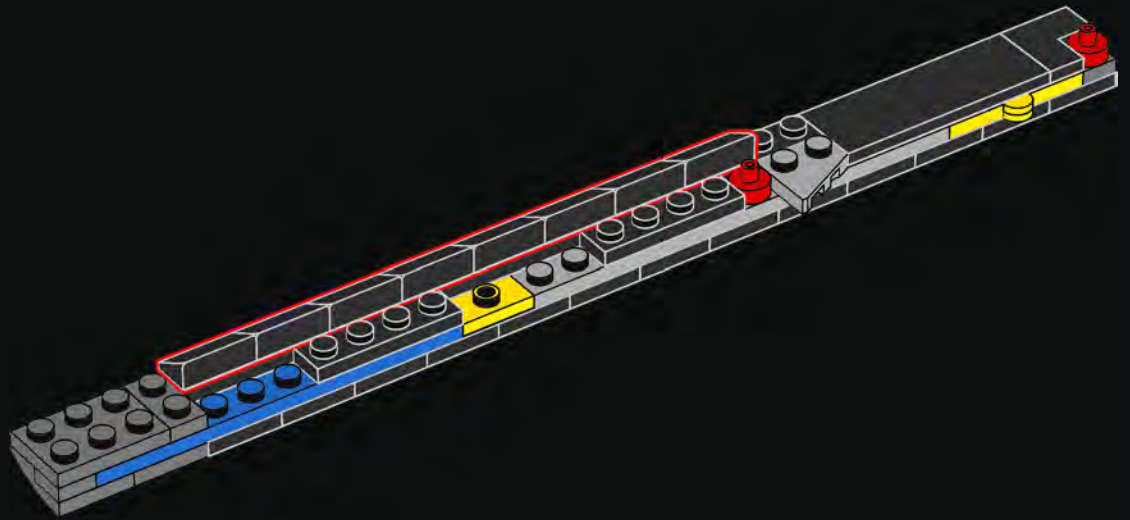


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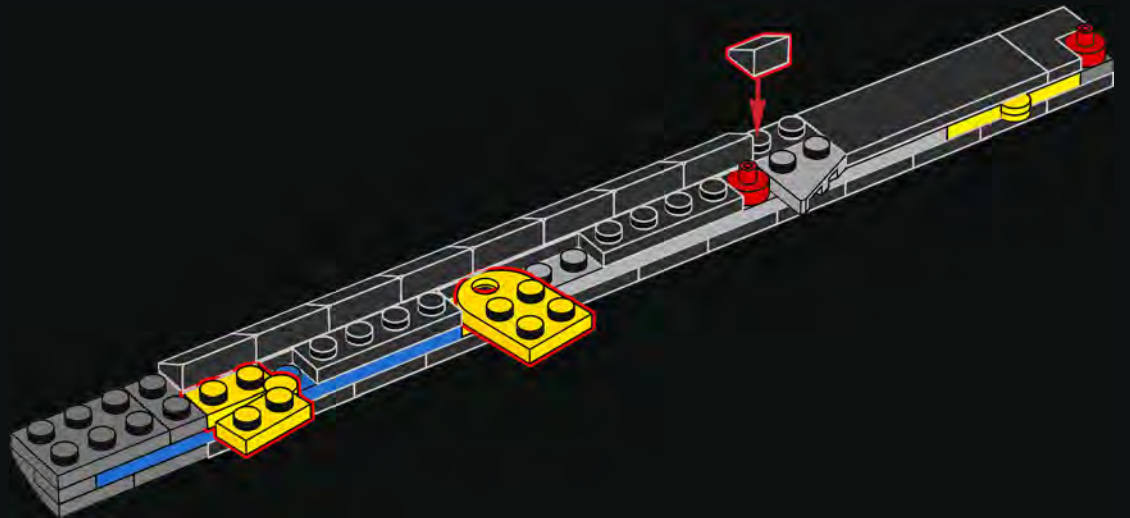


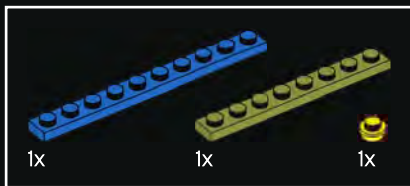


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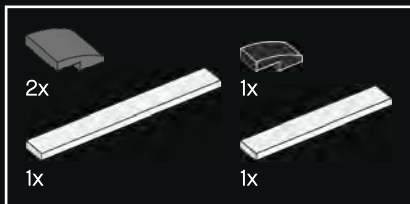
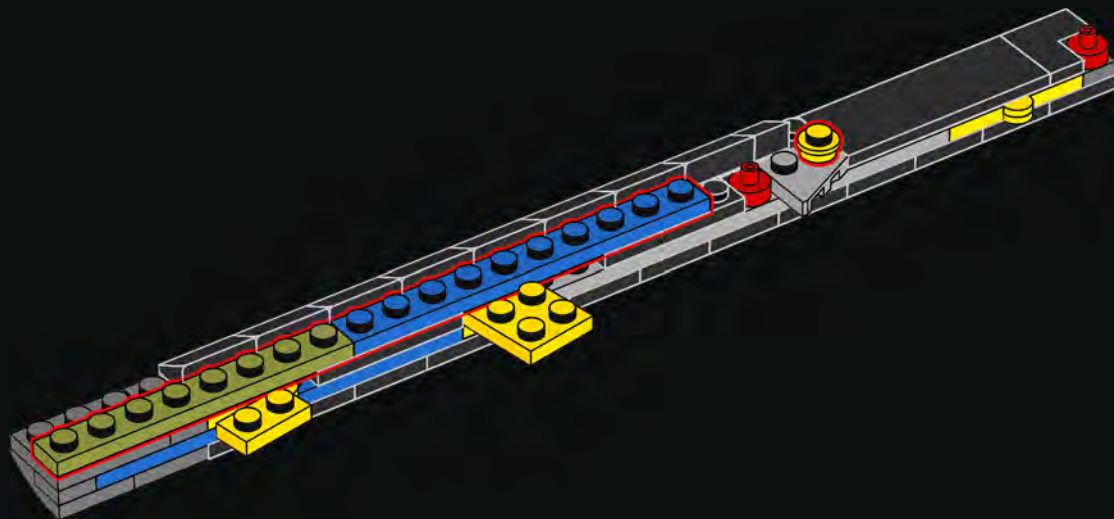


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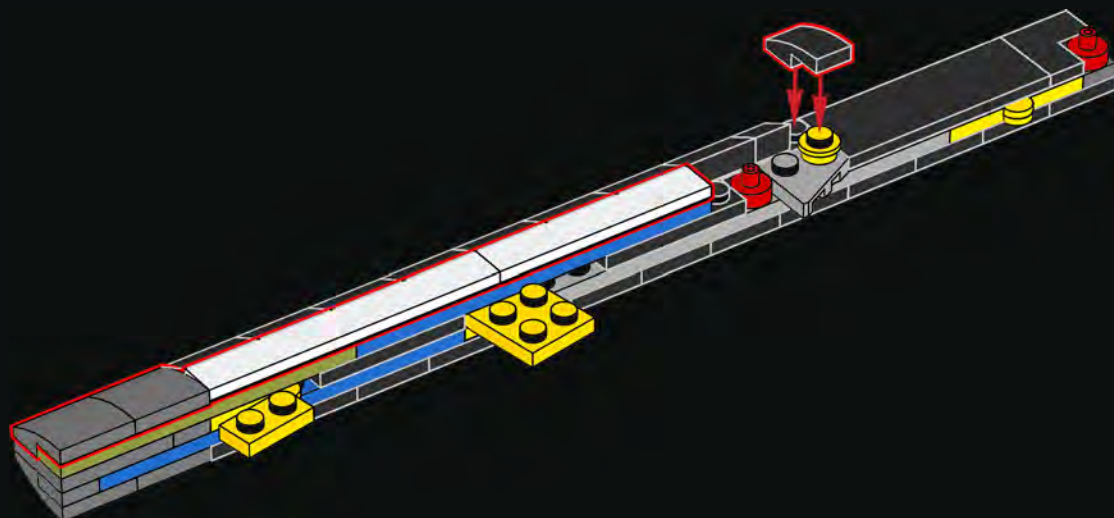




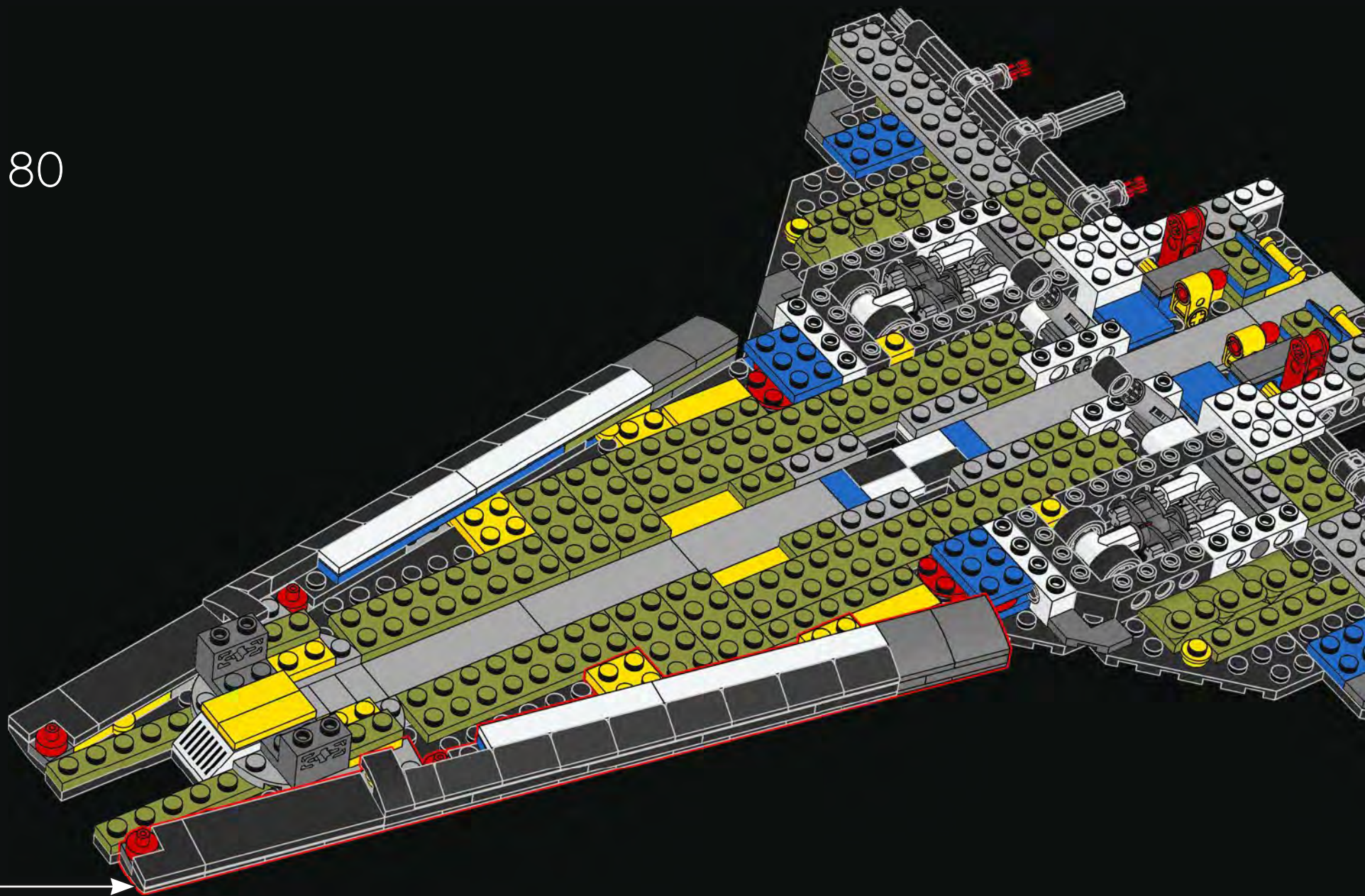
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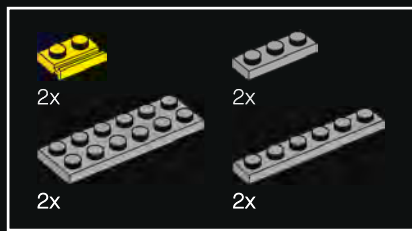


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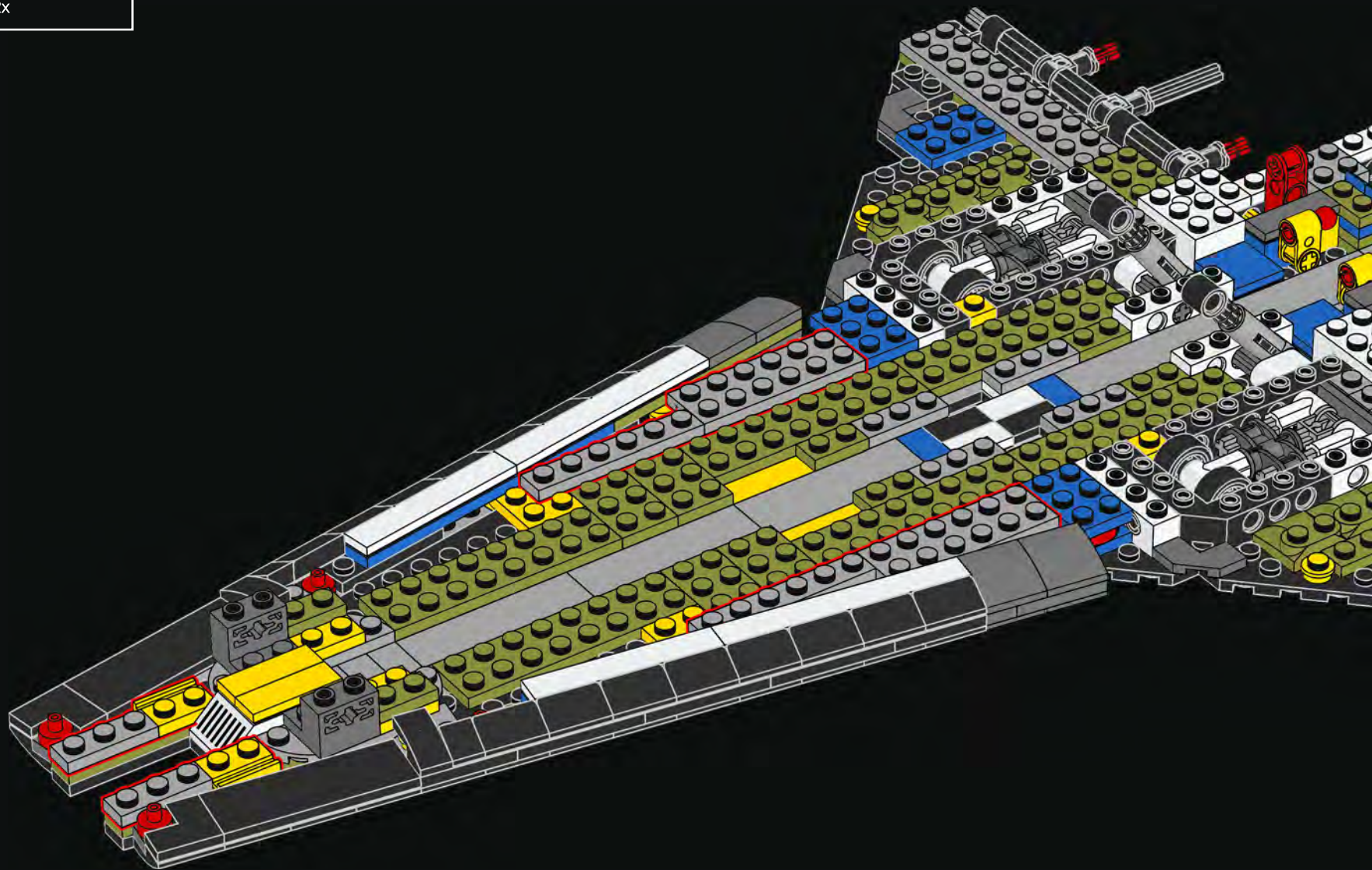


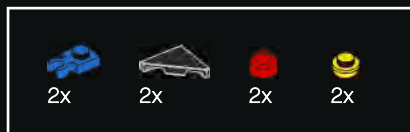
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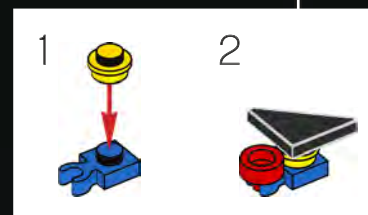
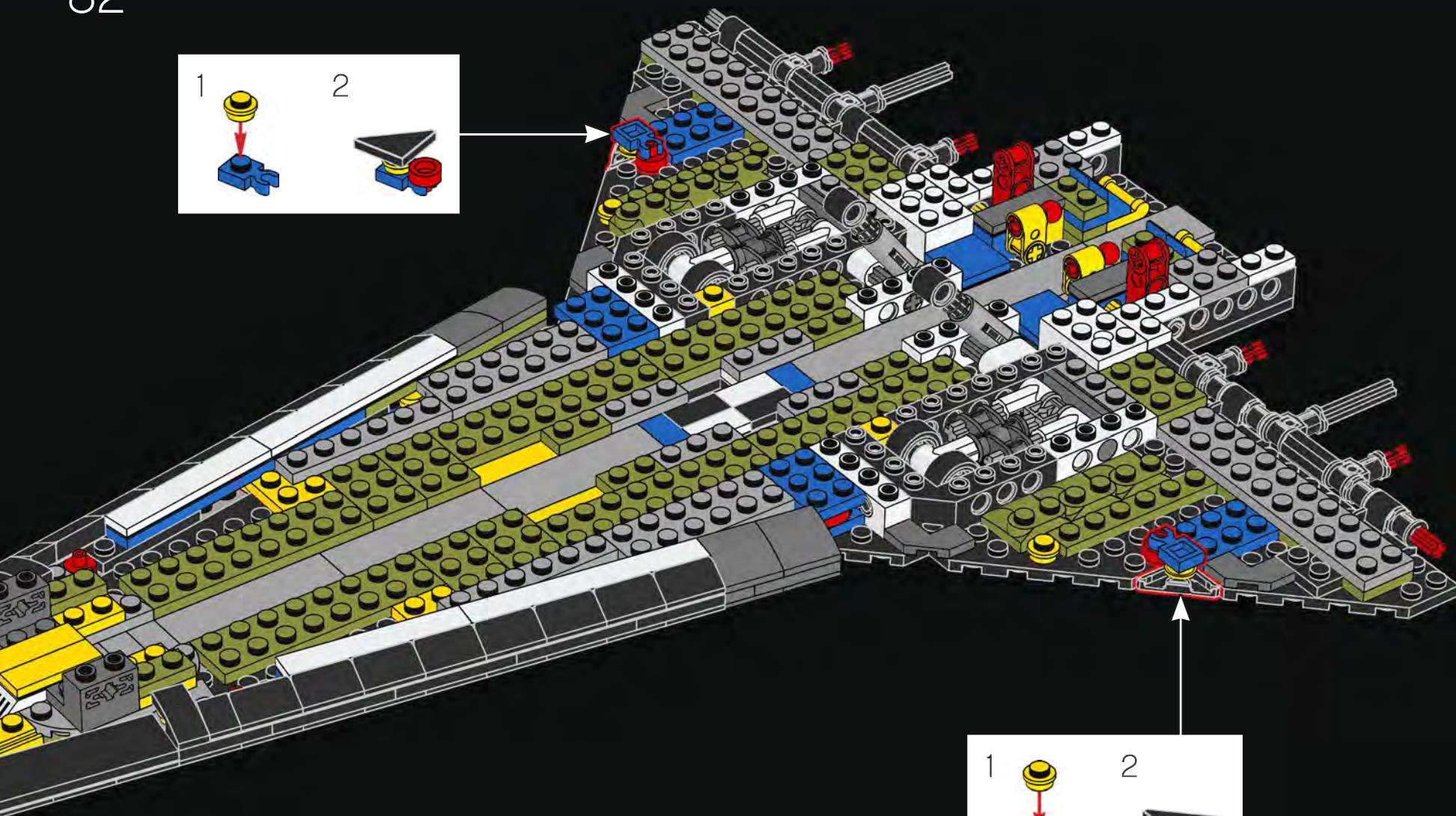
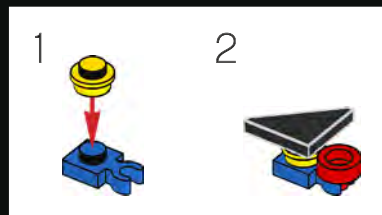


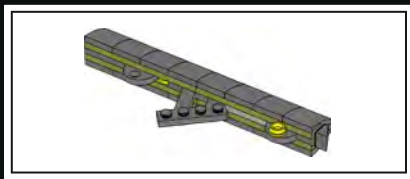
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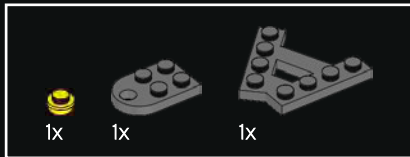
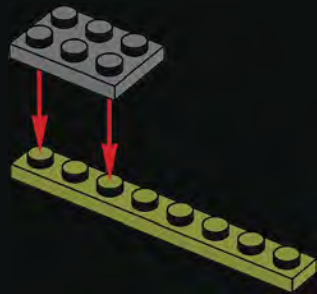


82

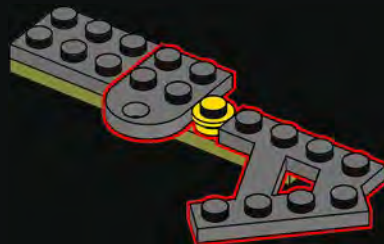




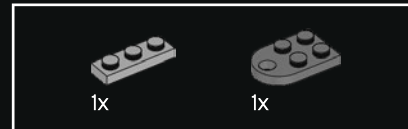
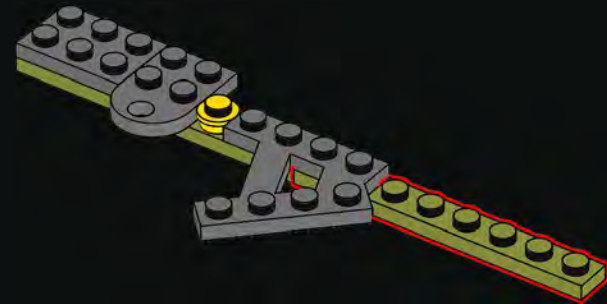
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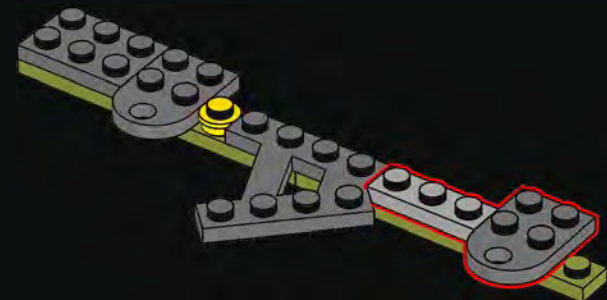
84



85

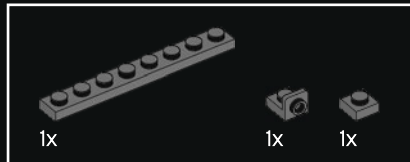
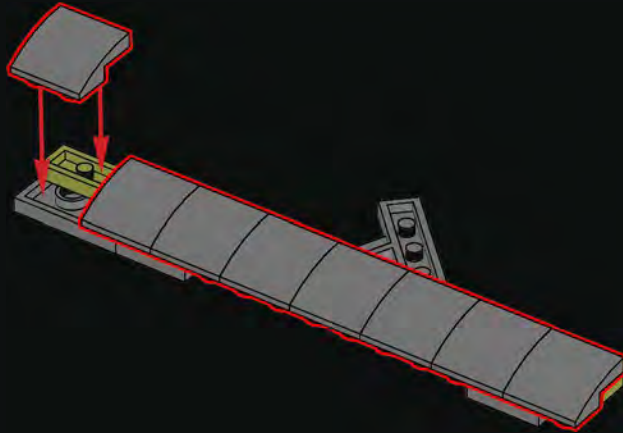


86

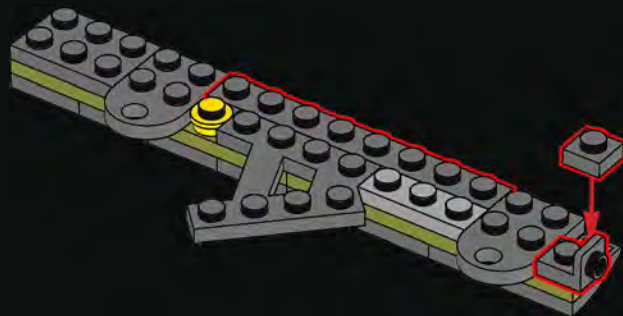




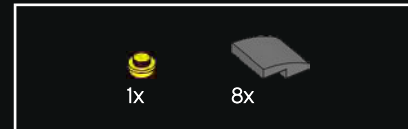
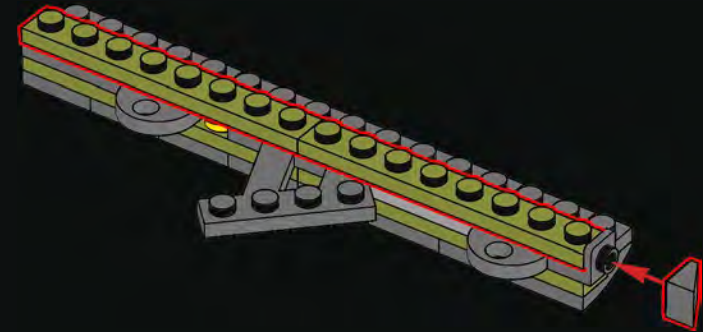
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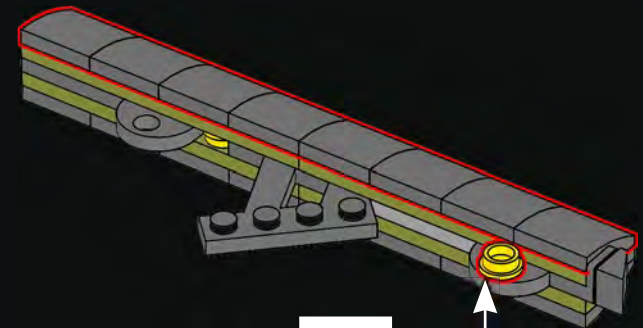
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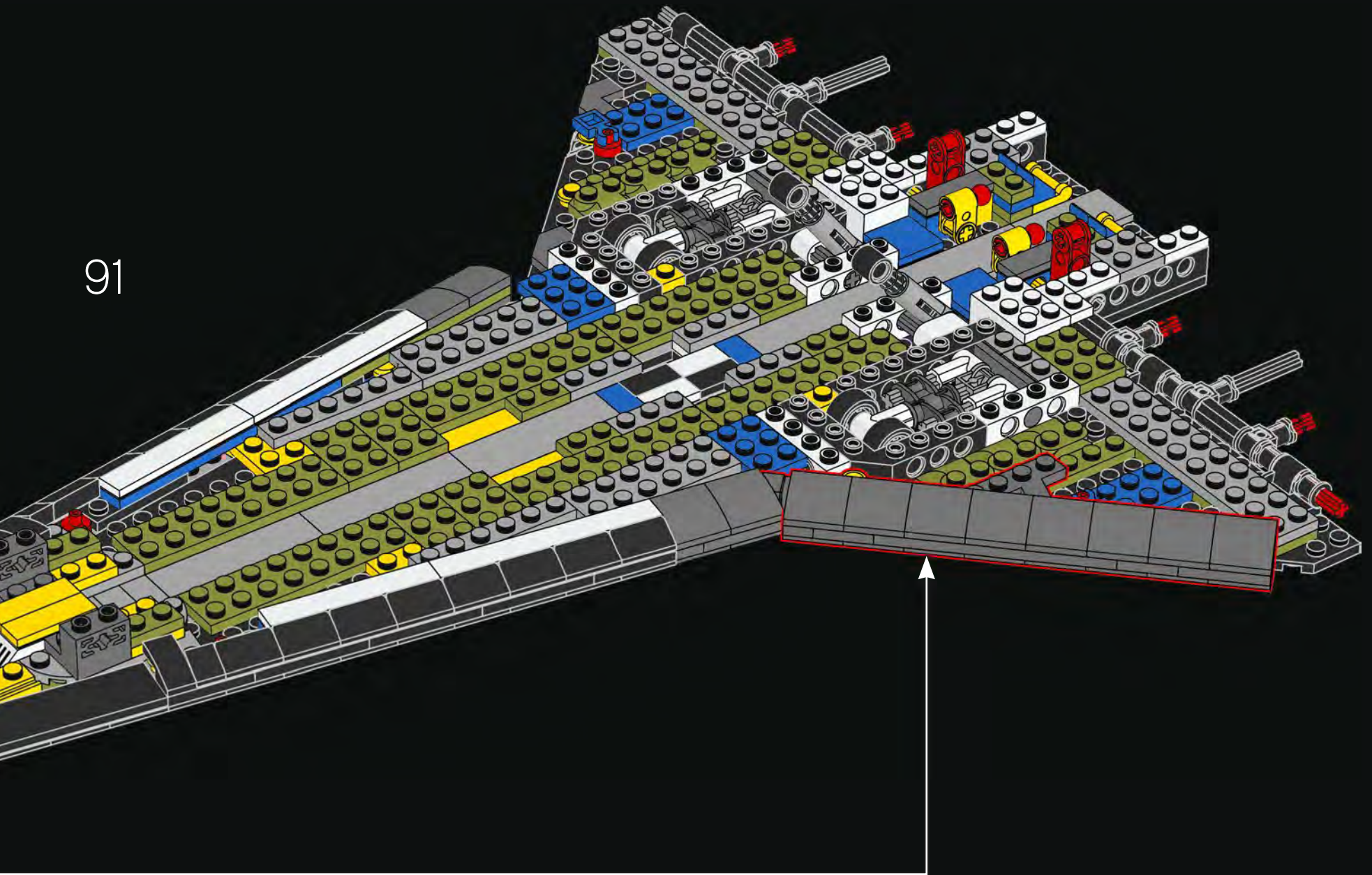
89

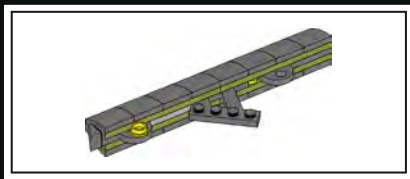


90

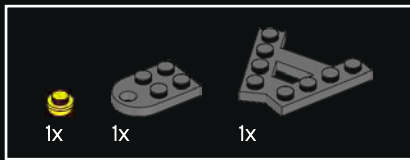
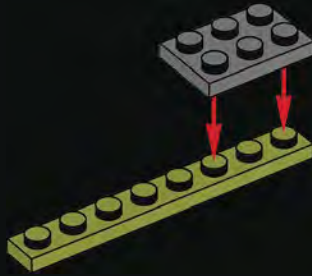


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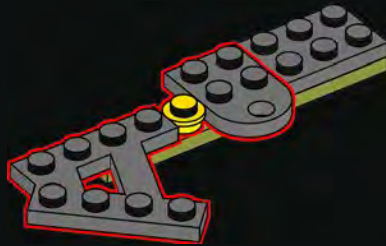




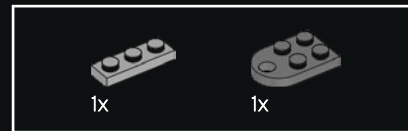
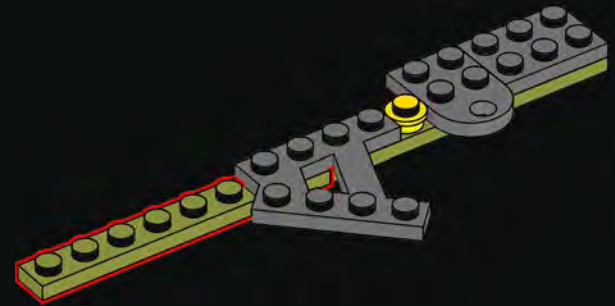
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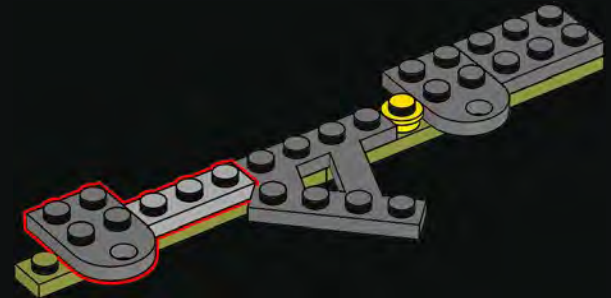
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94

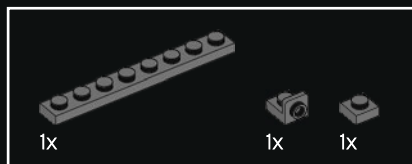
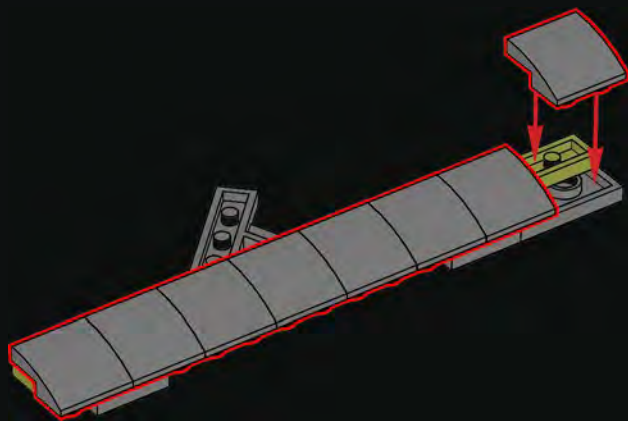


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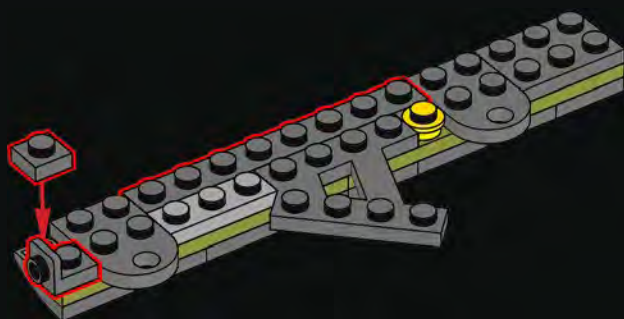




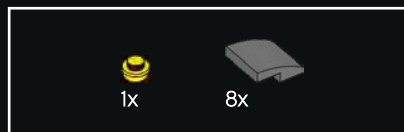
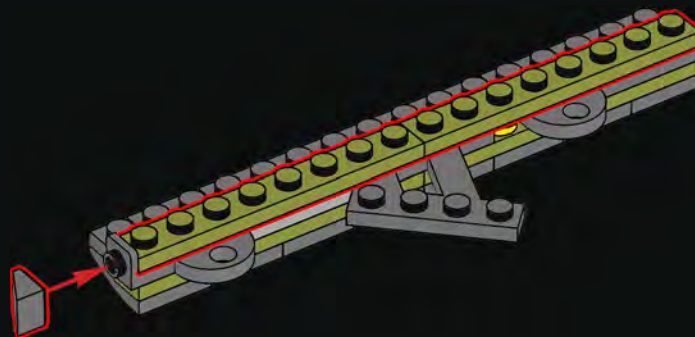
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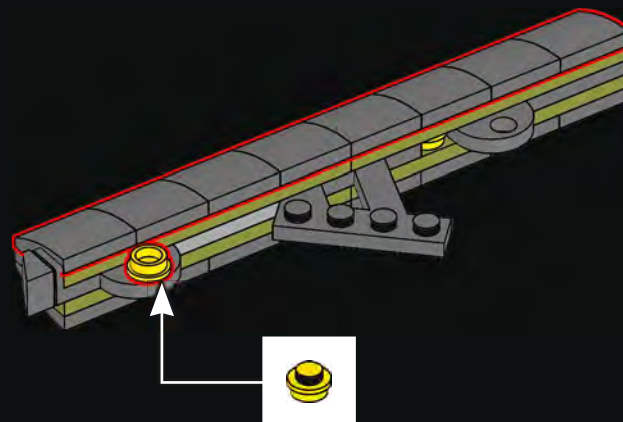
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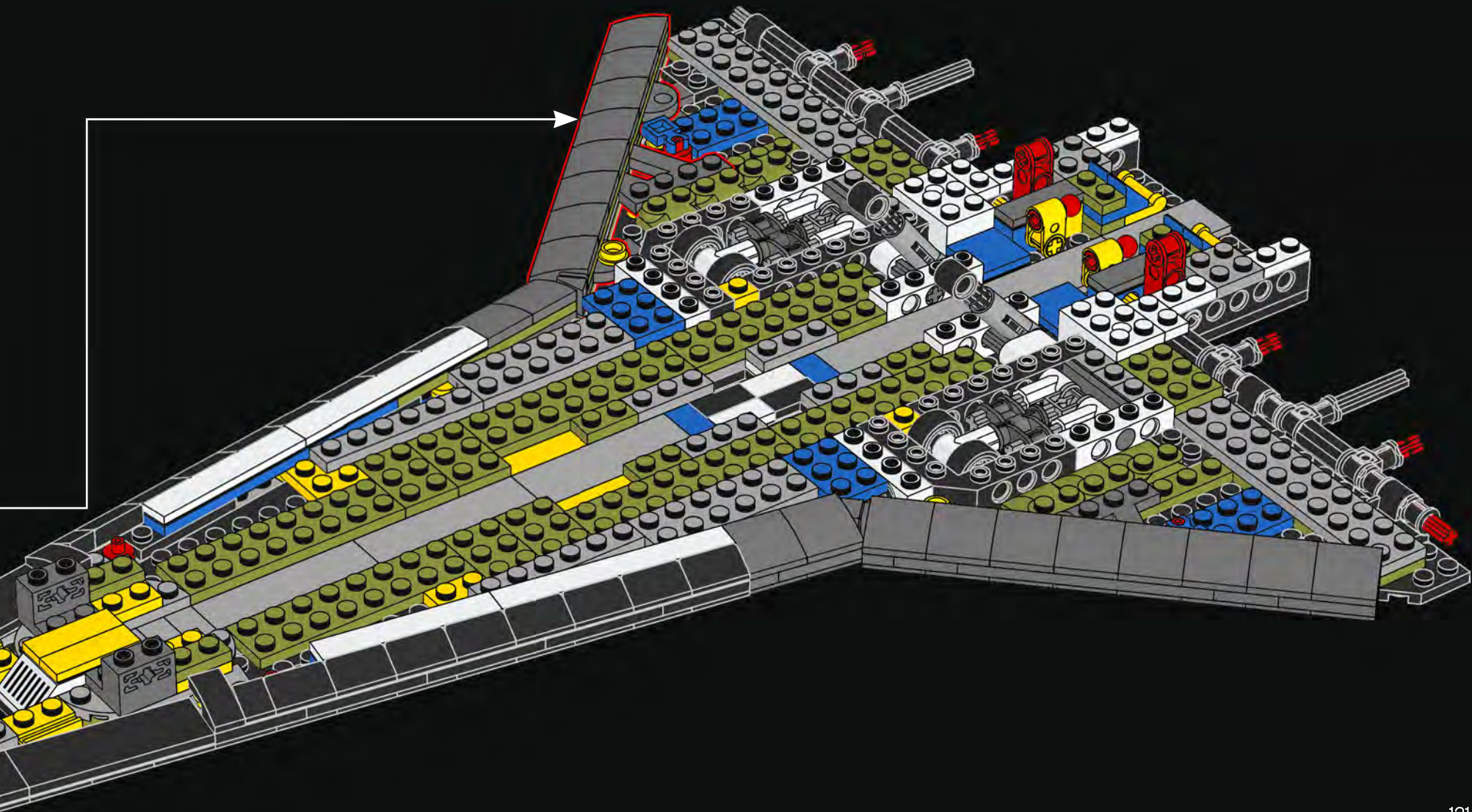
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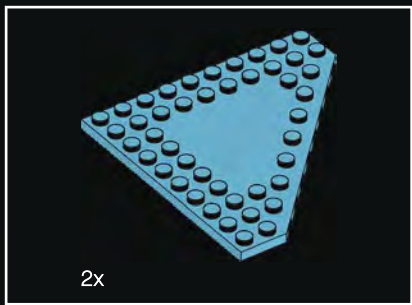


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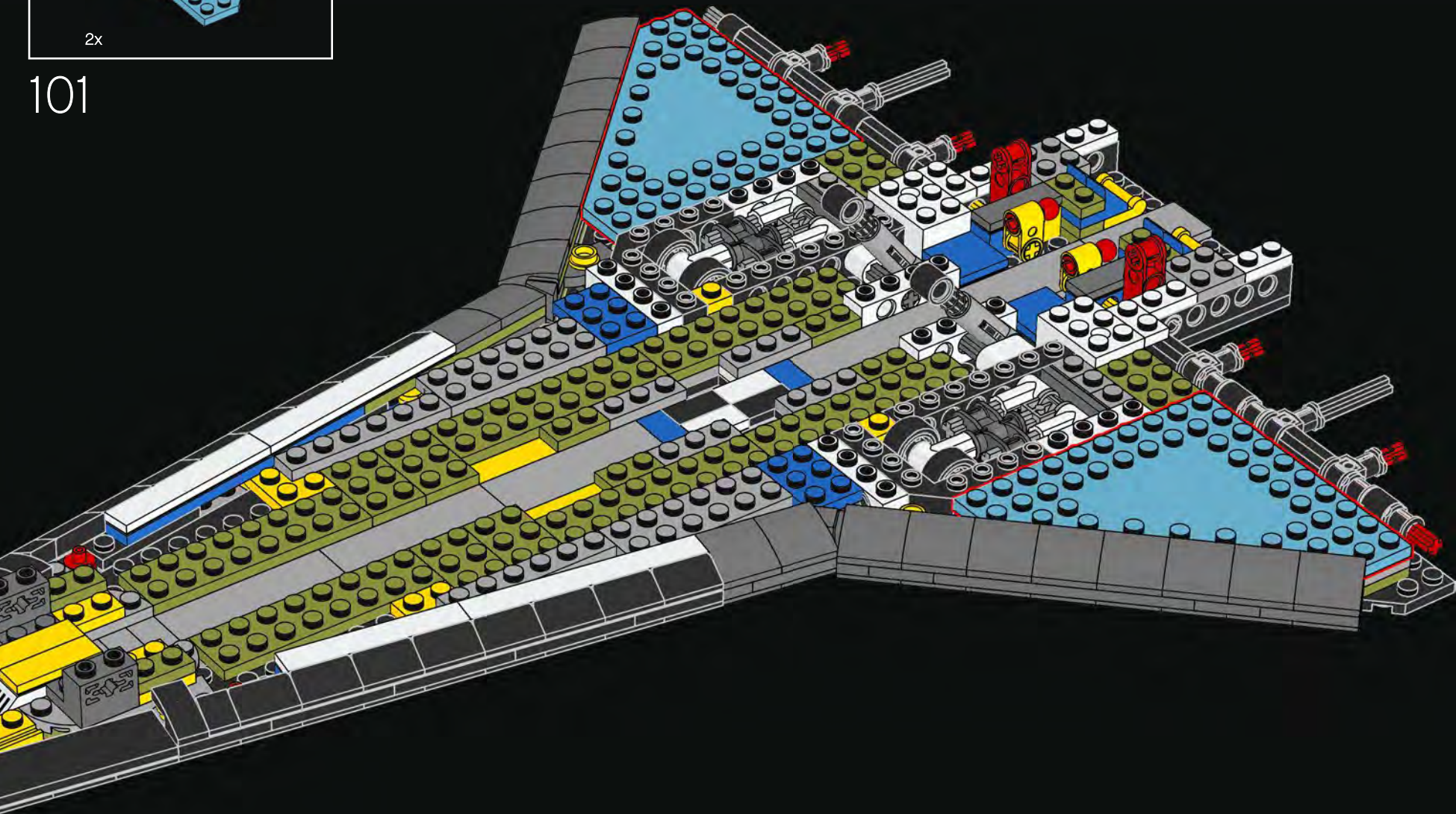


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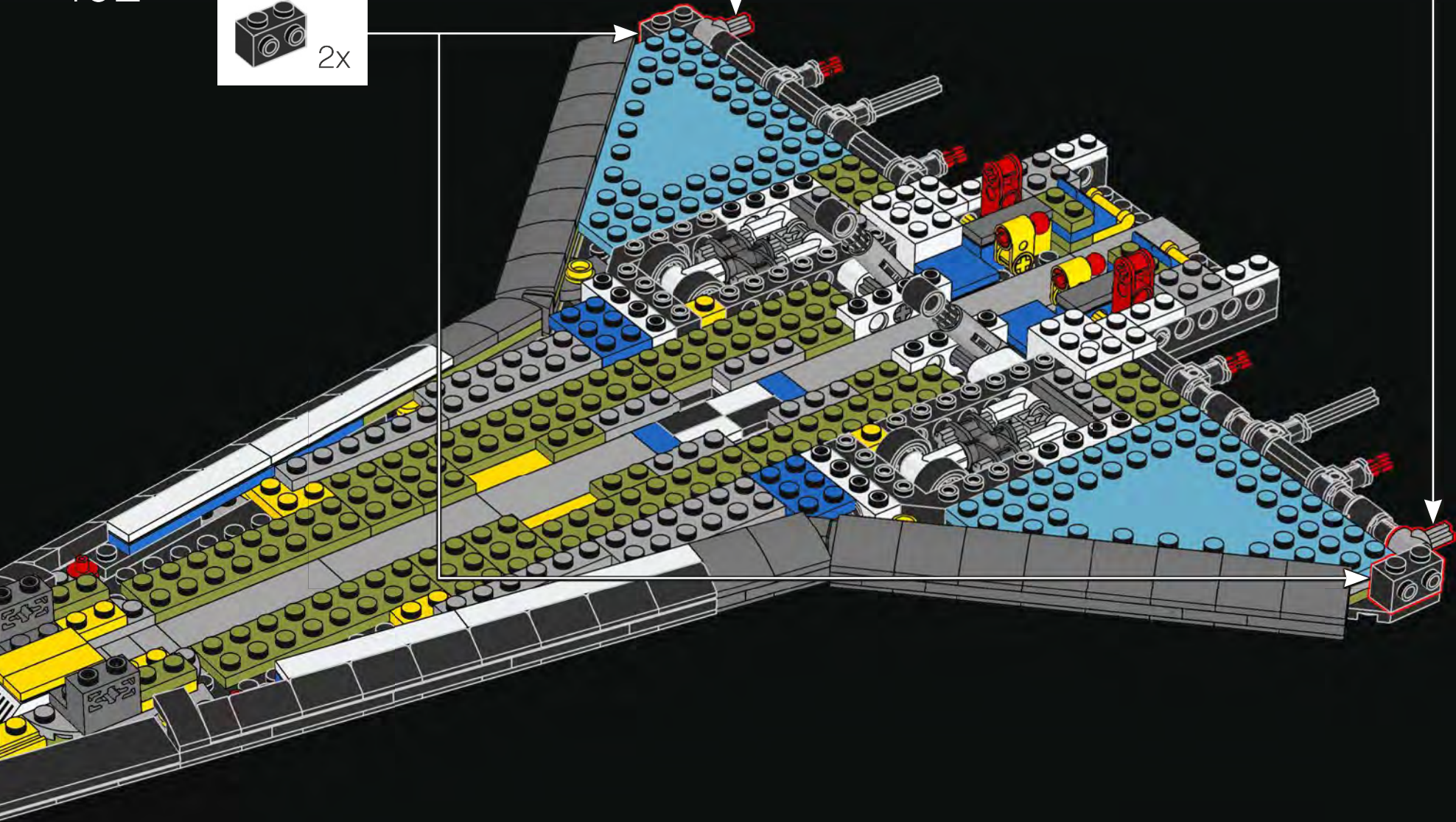
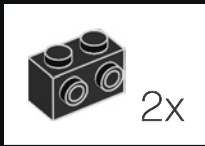


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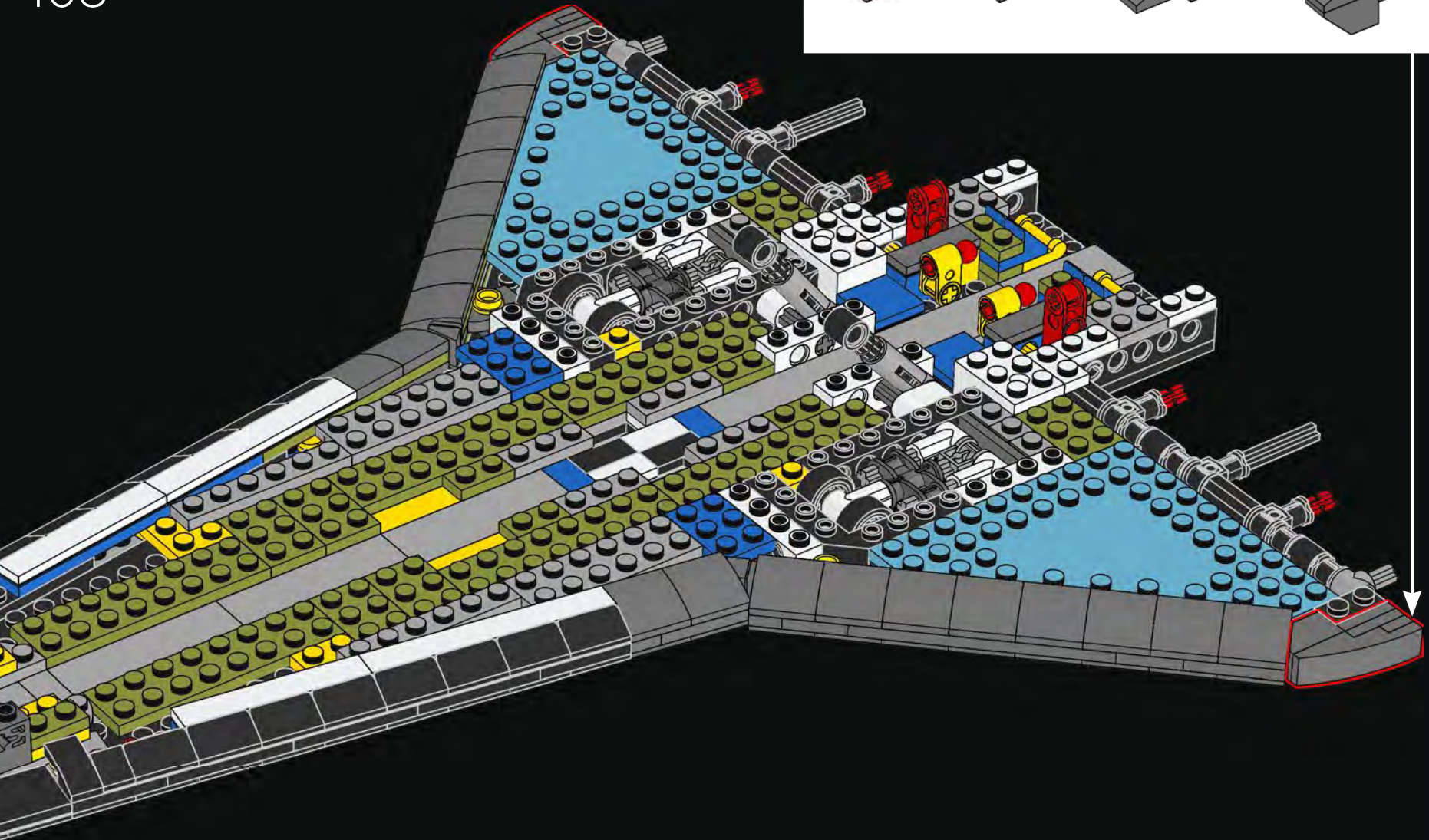
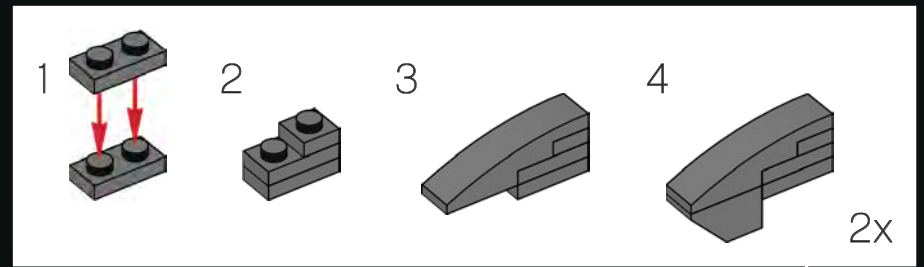


102



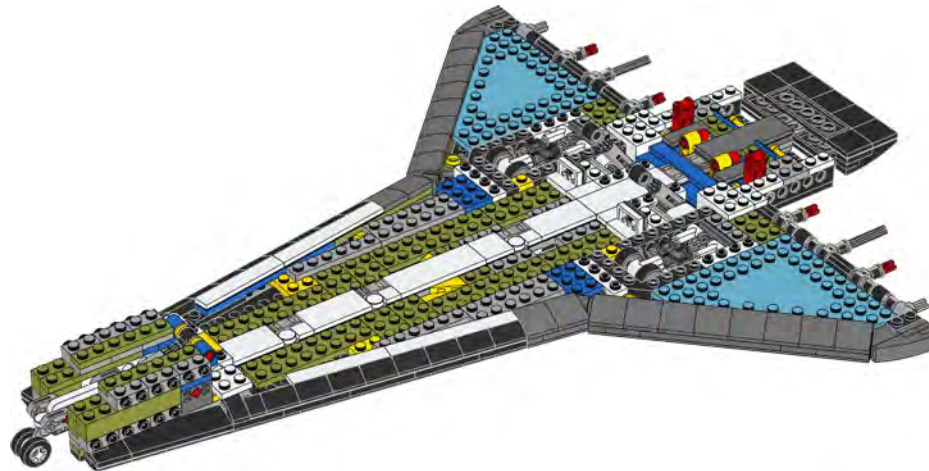
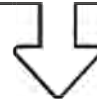


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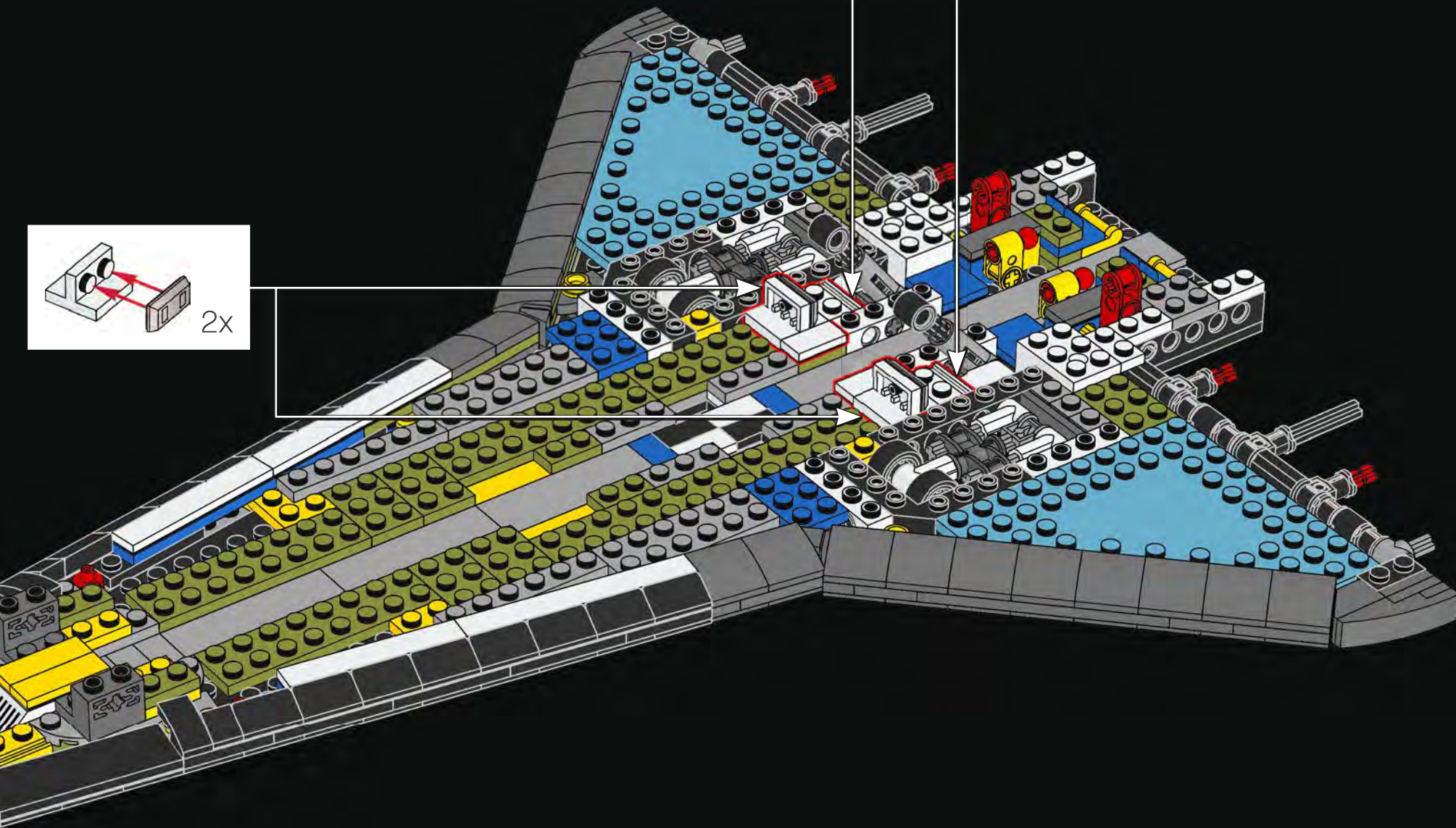
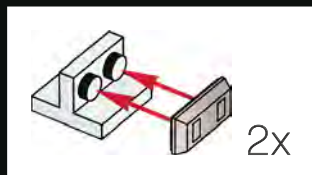
DID YOU KNOW?

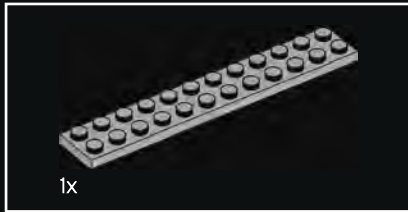
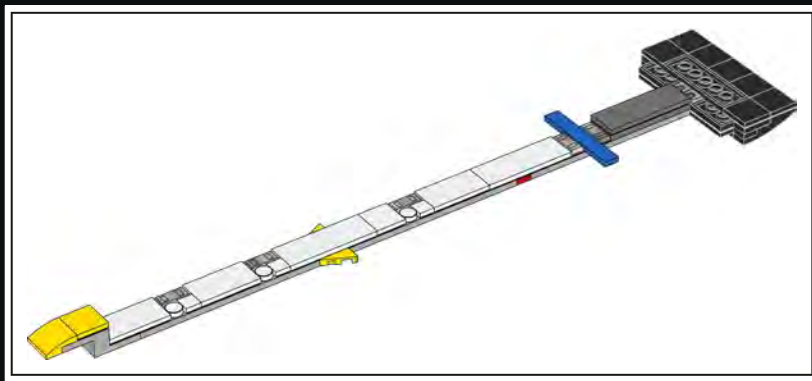
The nose and the leading edges of the wings take most of the re-entry heat – up to 1,600 degrees Celsius (2,912 degrees Fahrenheit)!





104

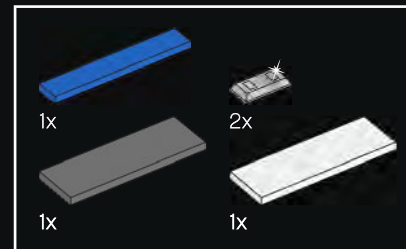
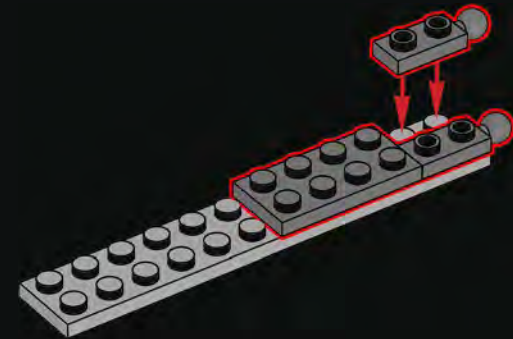




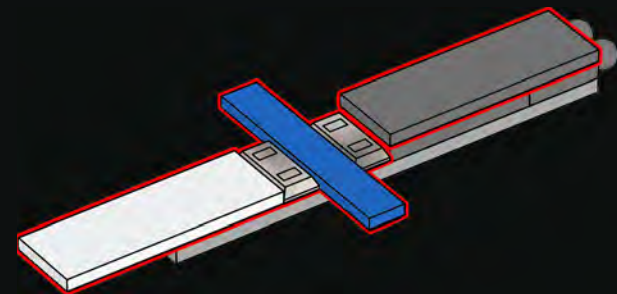
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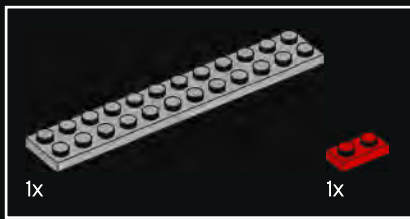


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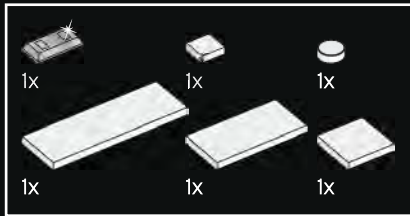
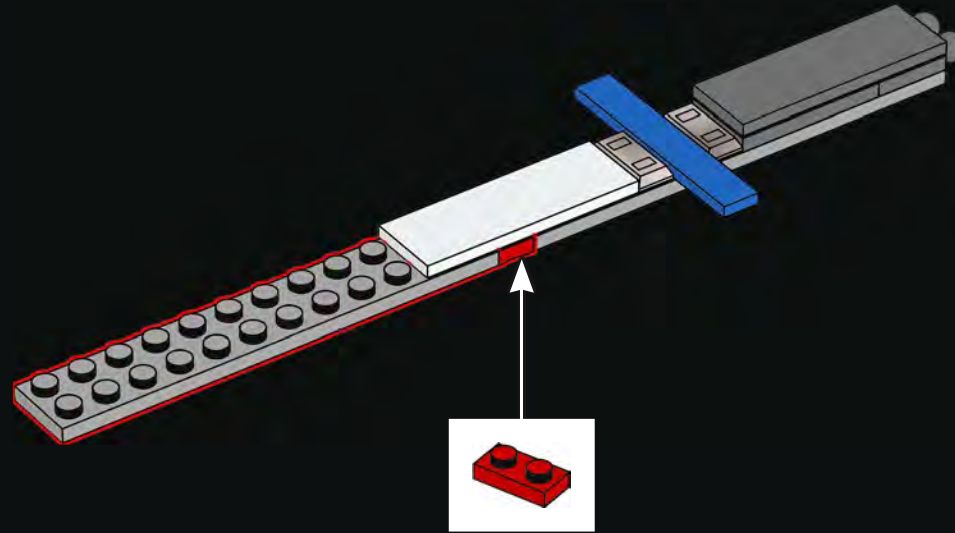


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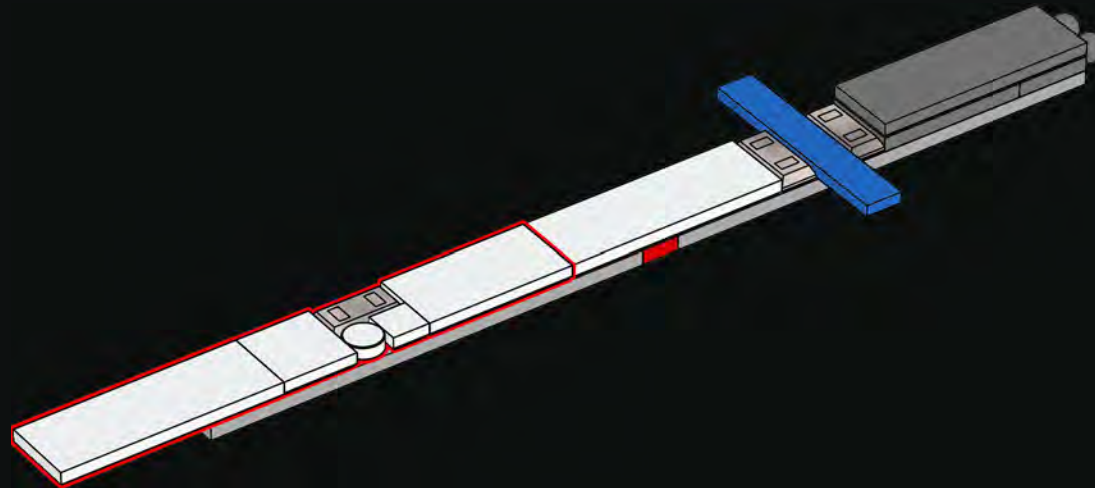




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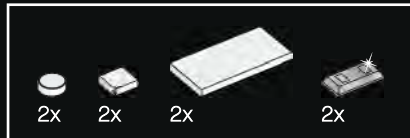
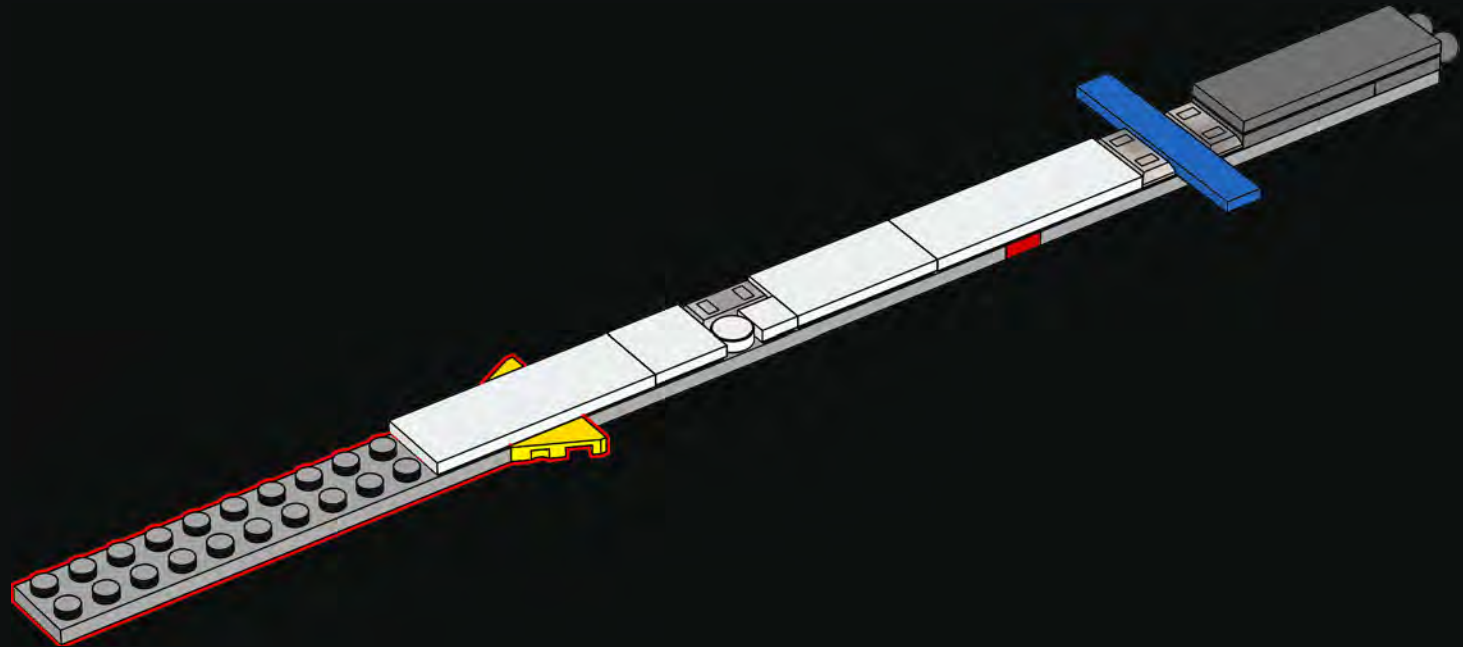


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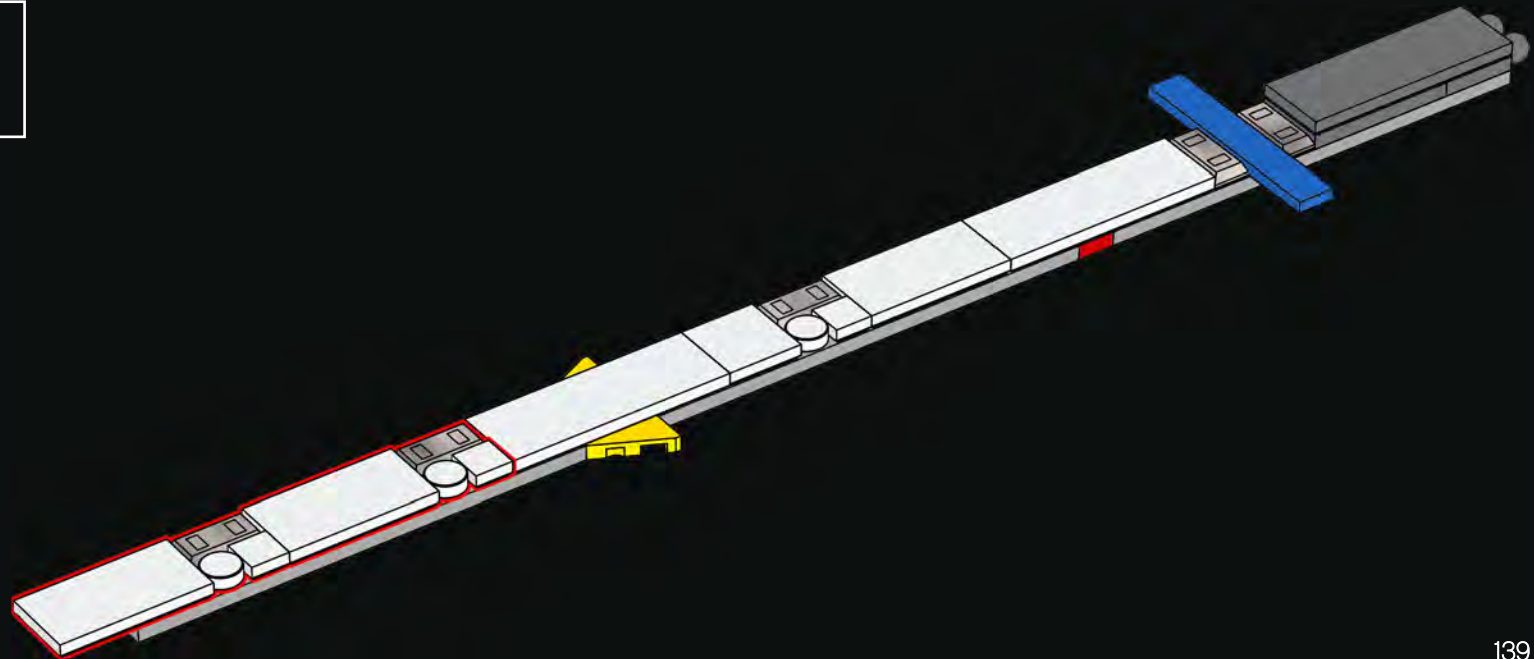


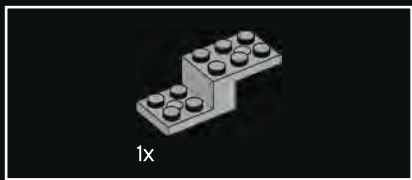


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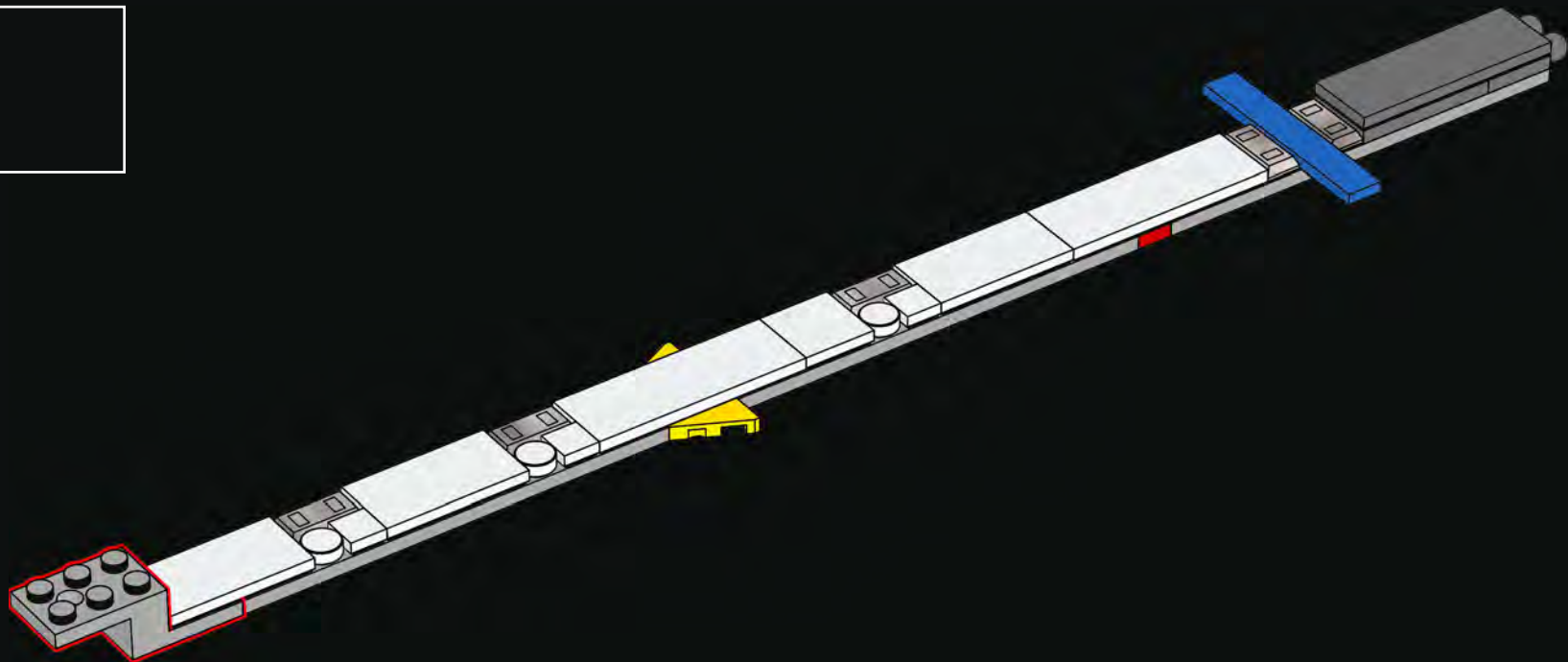


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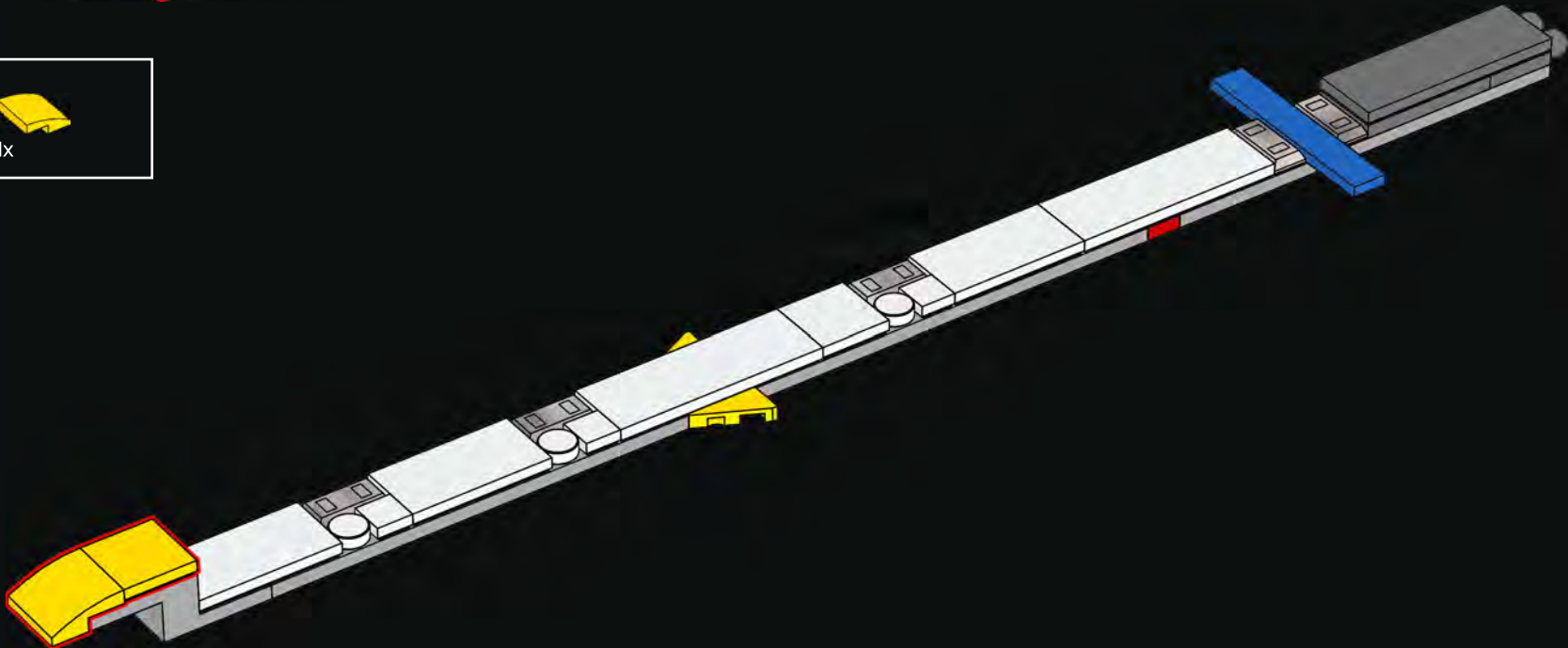


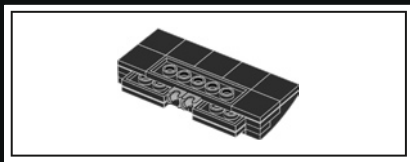


112



113





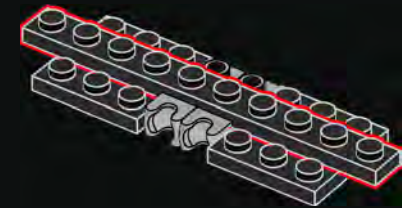
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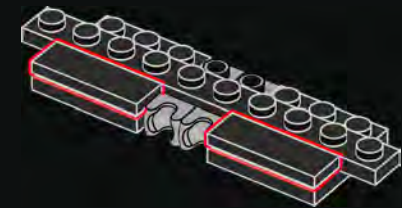
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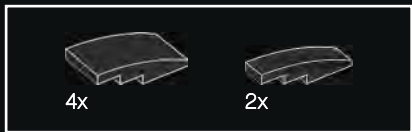


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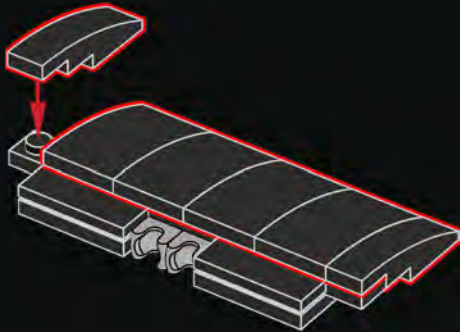


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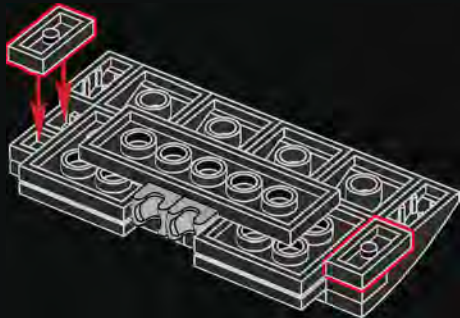




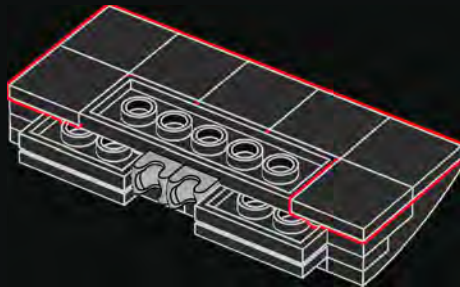
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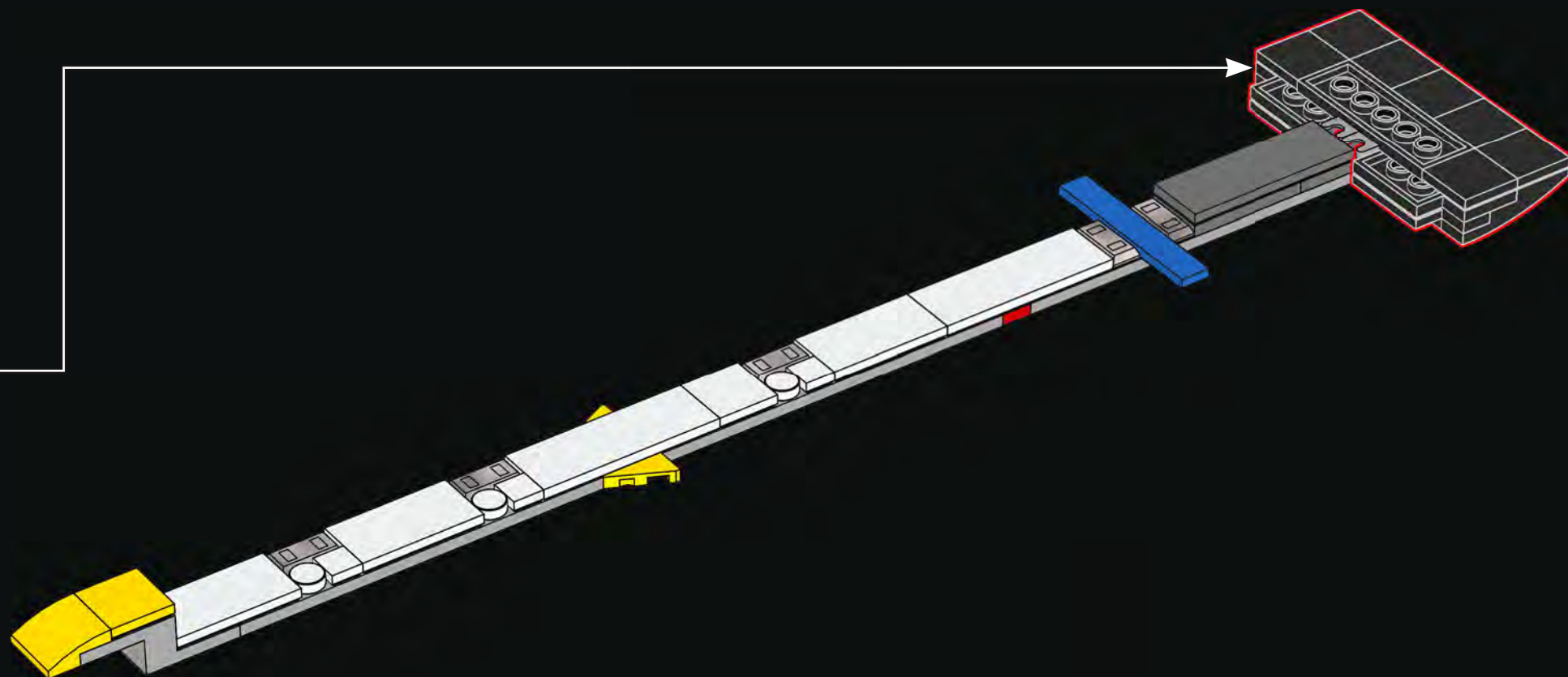
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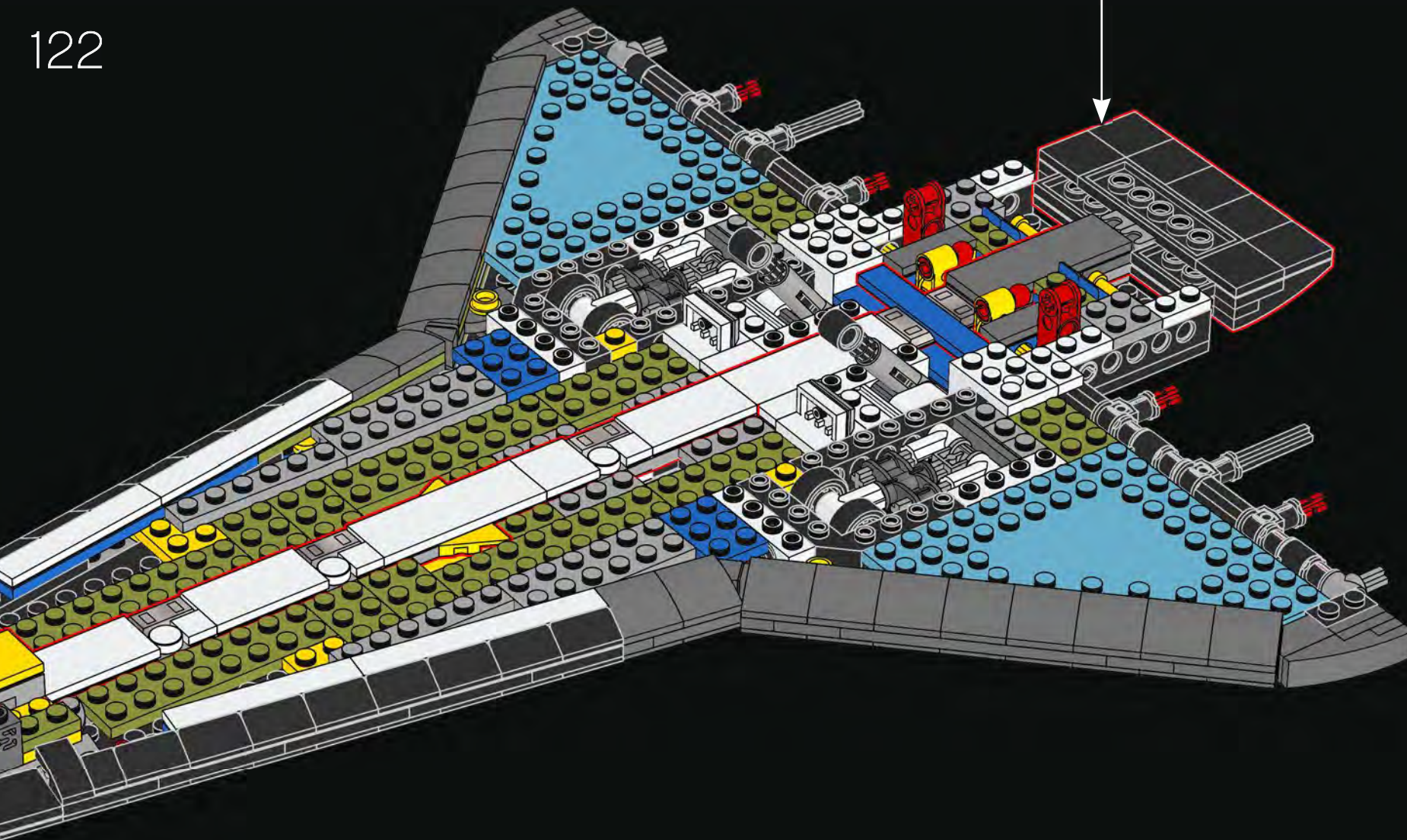
120



121



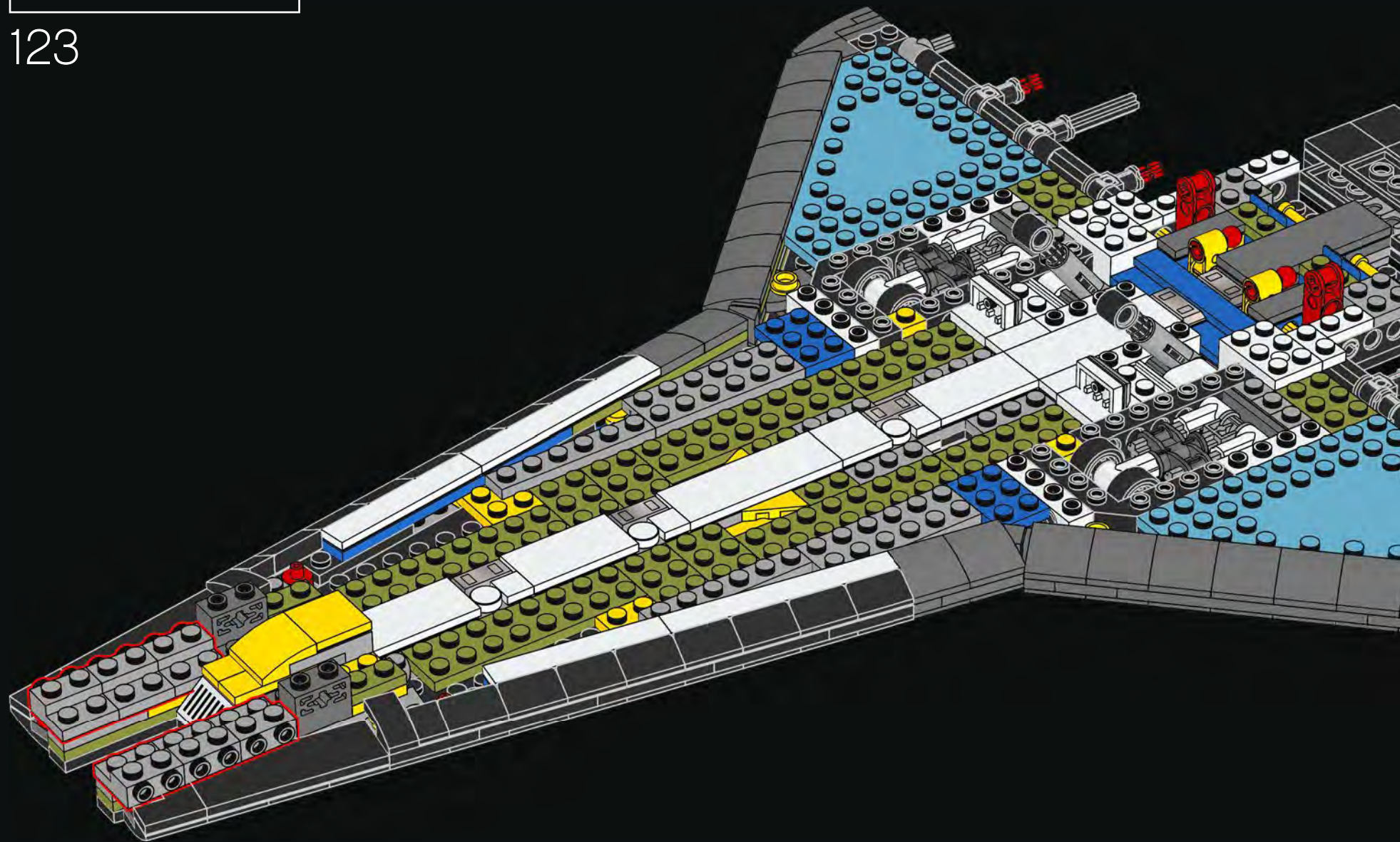
122





6x

123





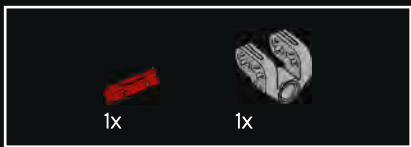
124



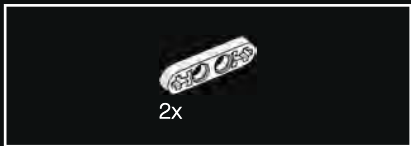
125



126

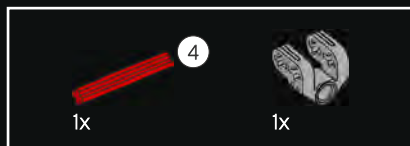


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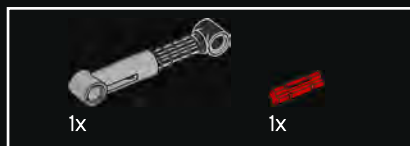
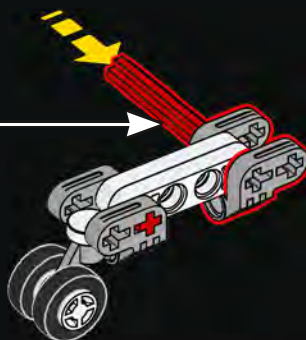
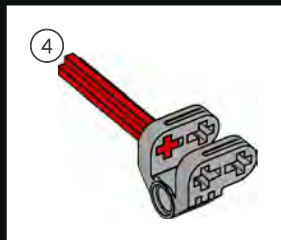


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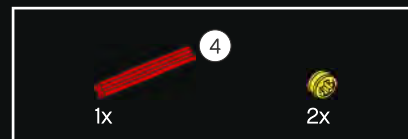




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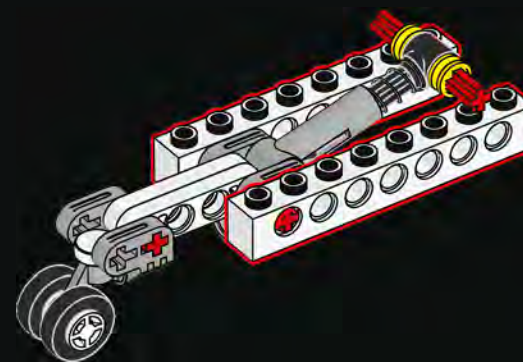
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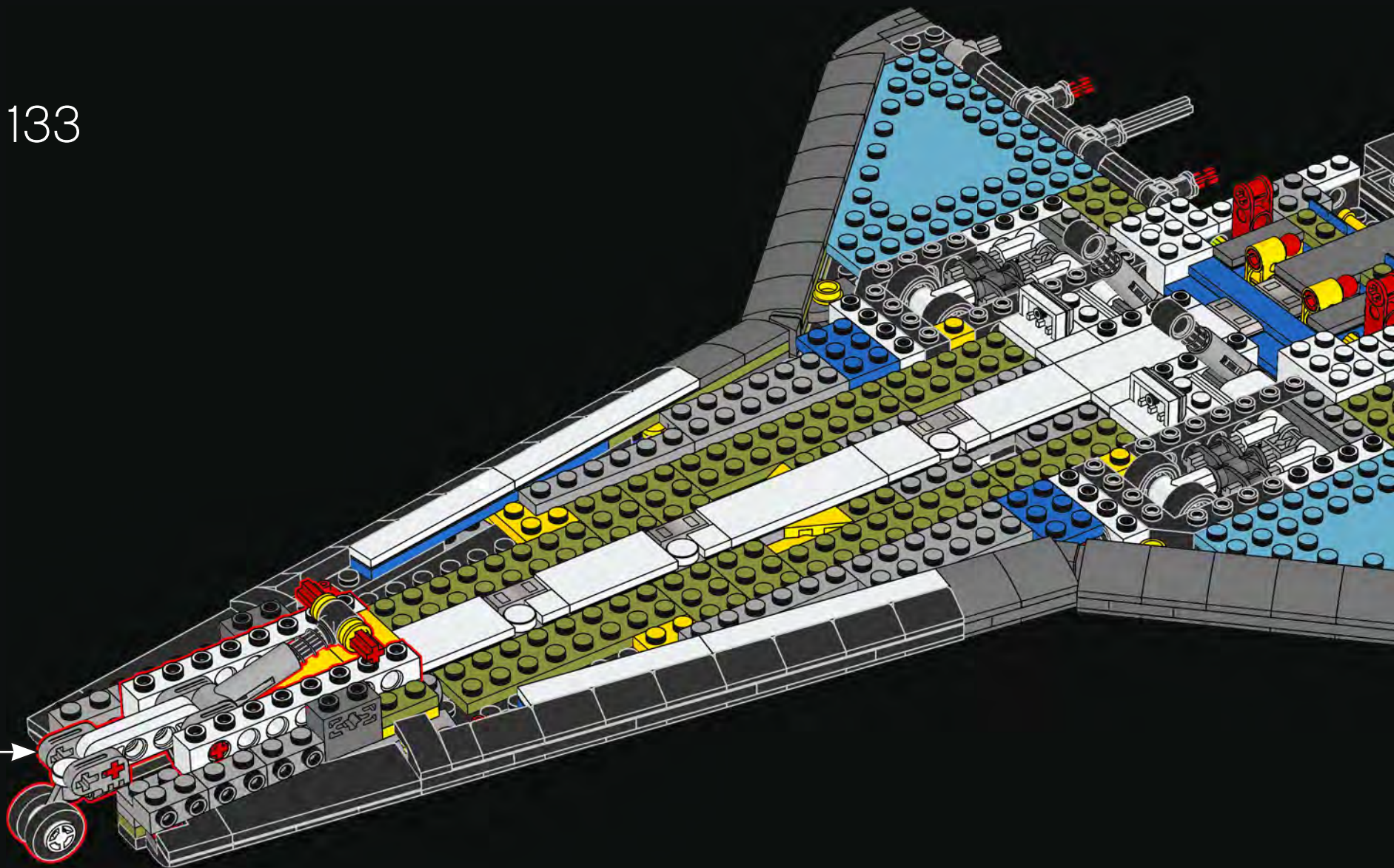
131



132

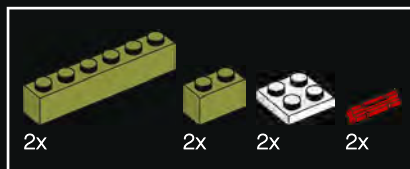


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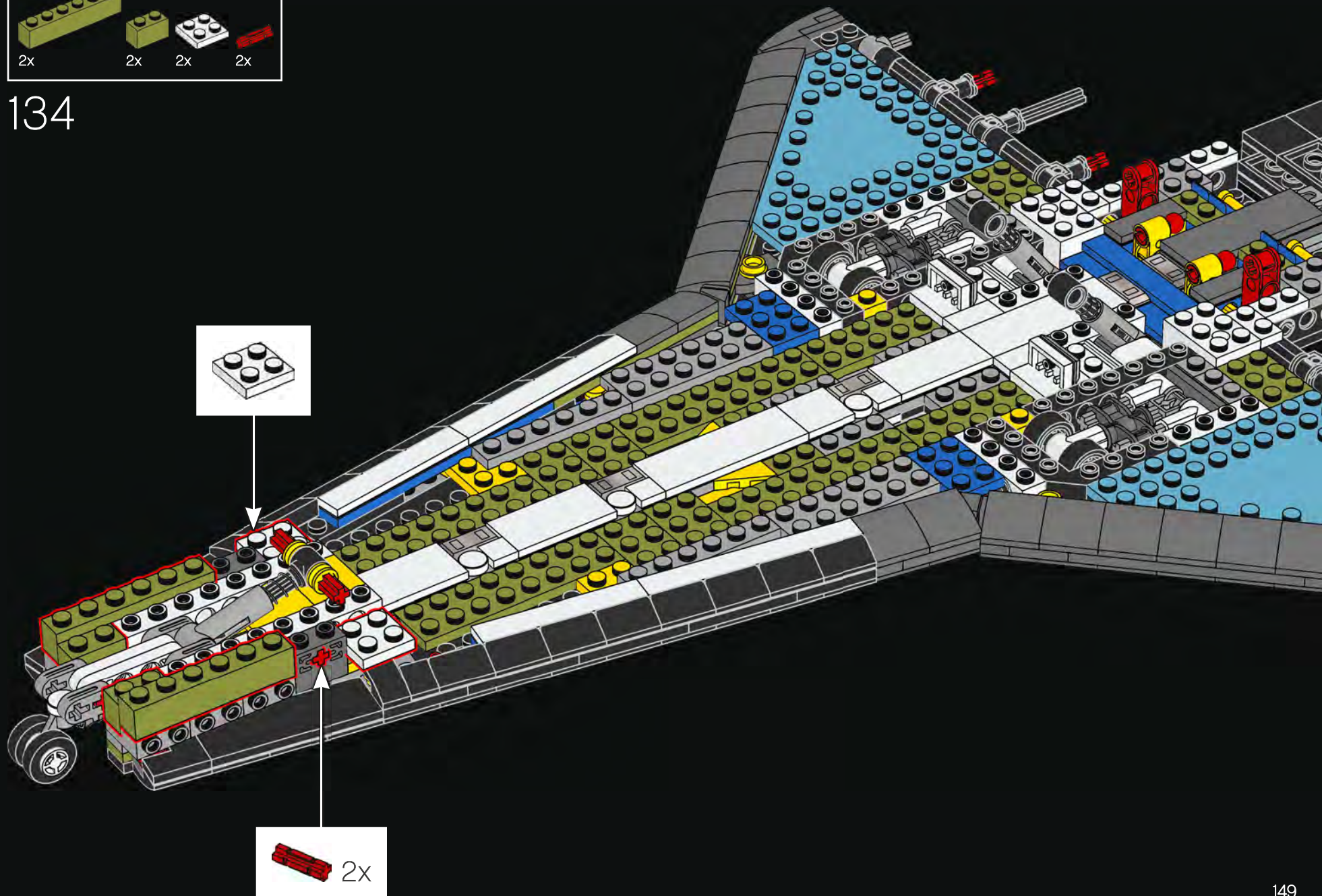


DID YOU KNOW?

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

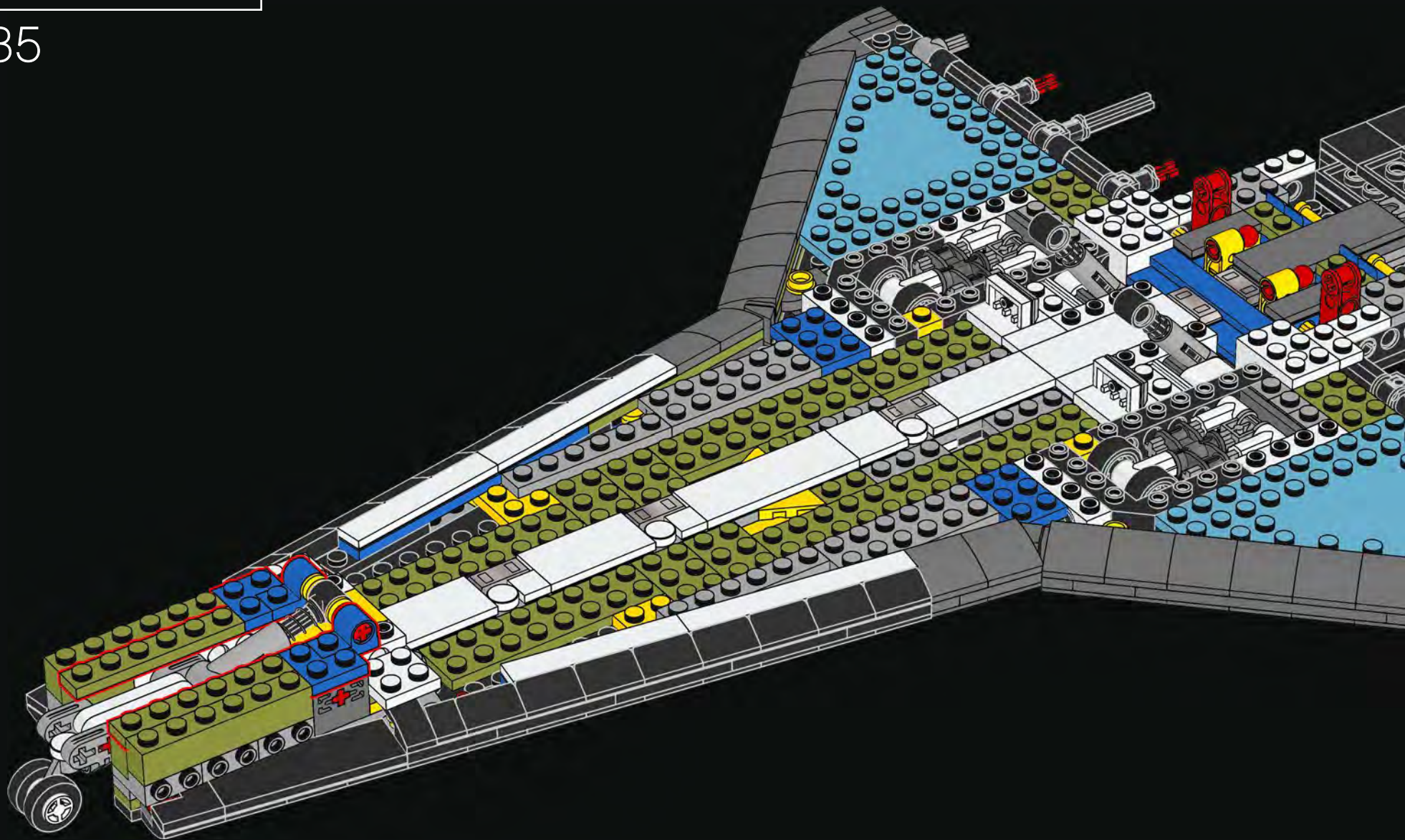


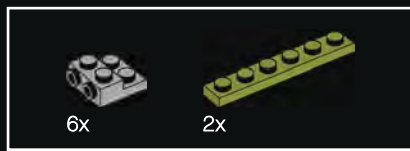
134



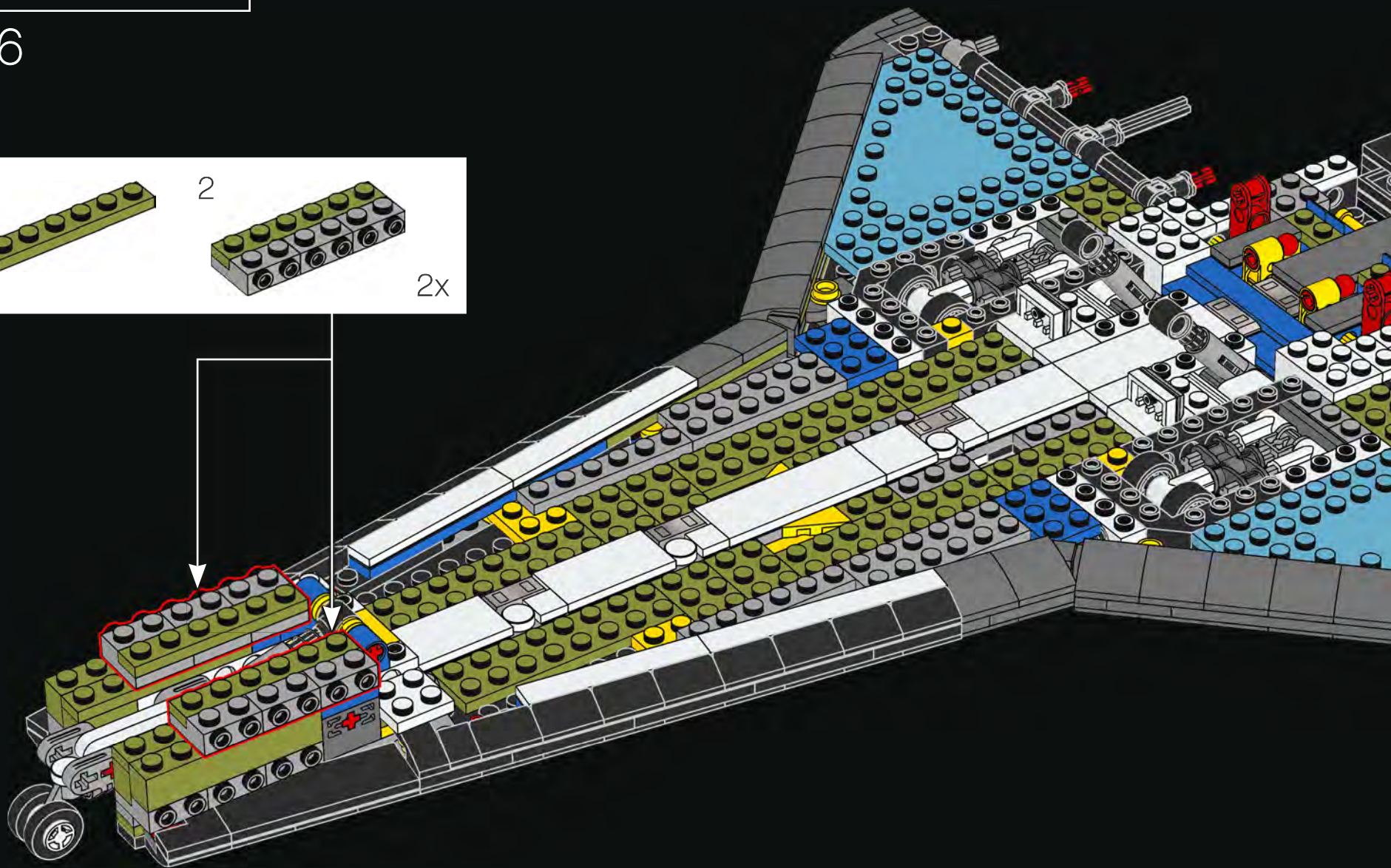
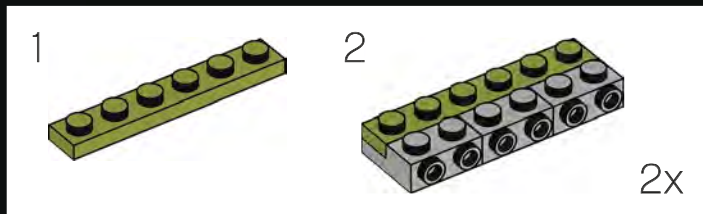


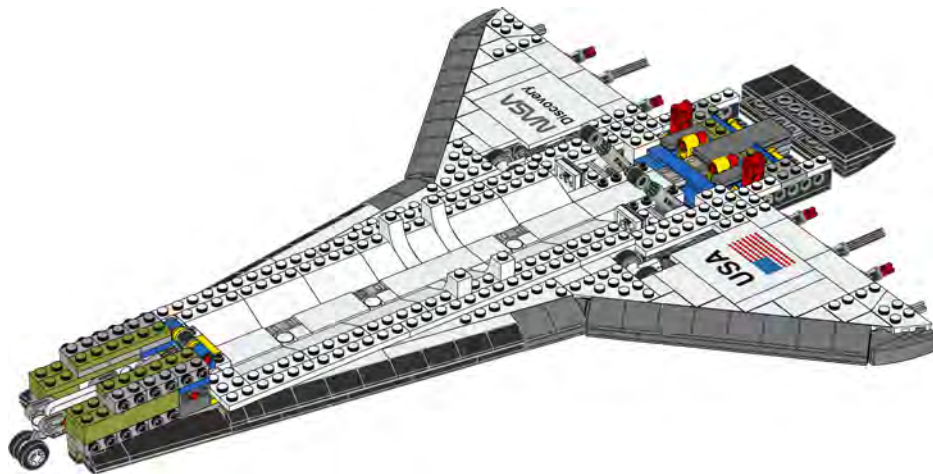
135

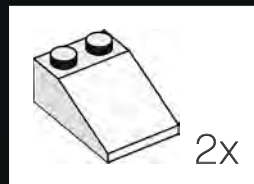
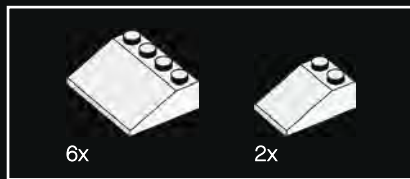




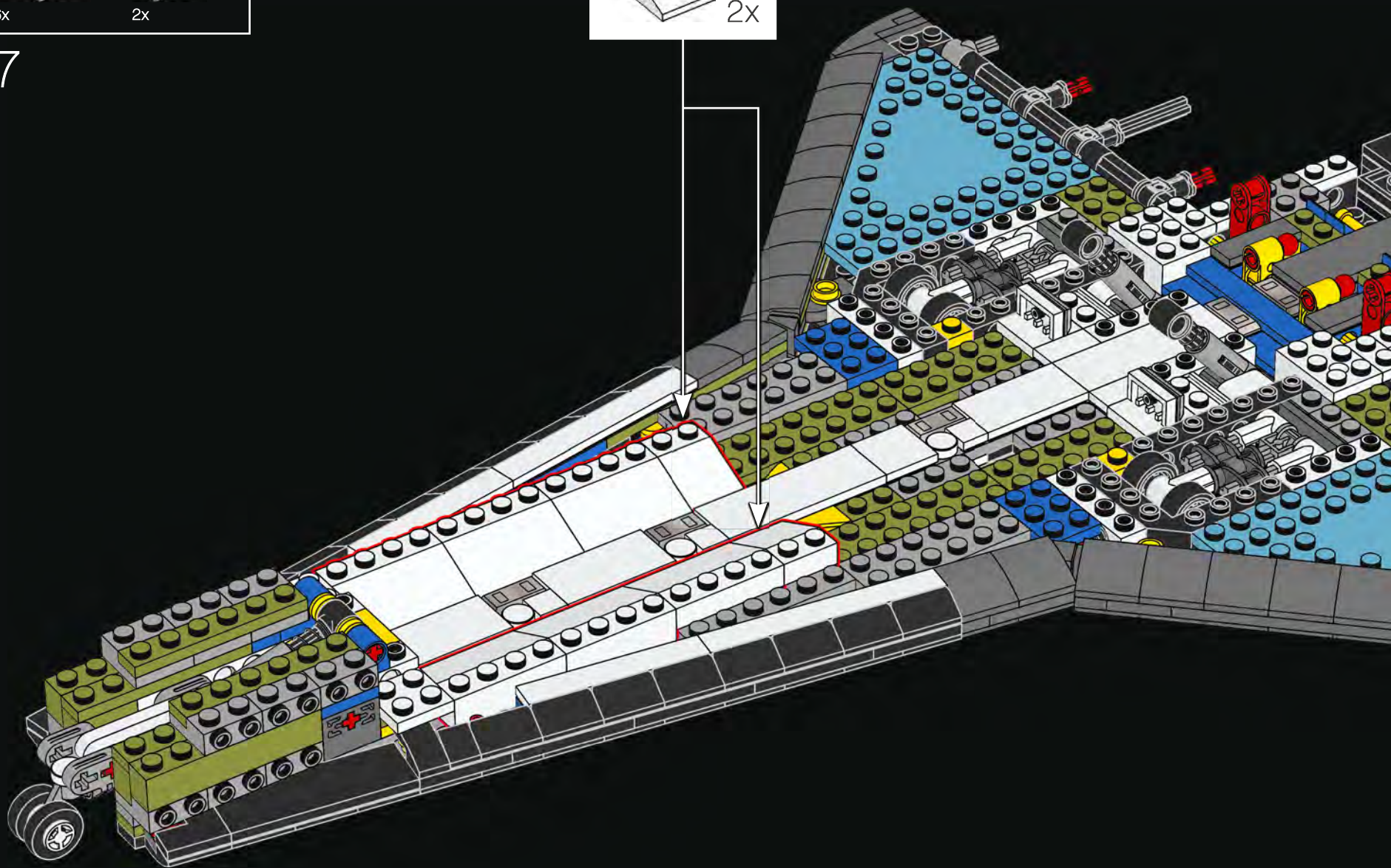
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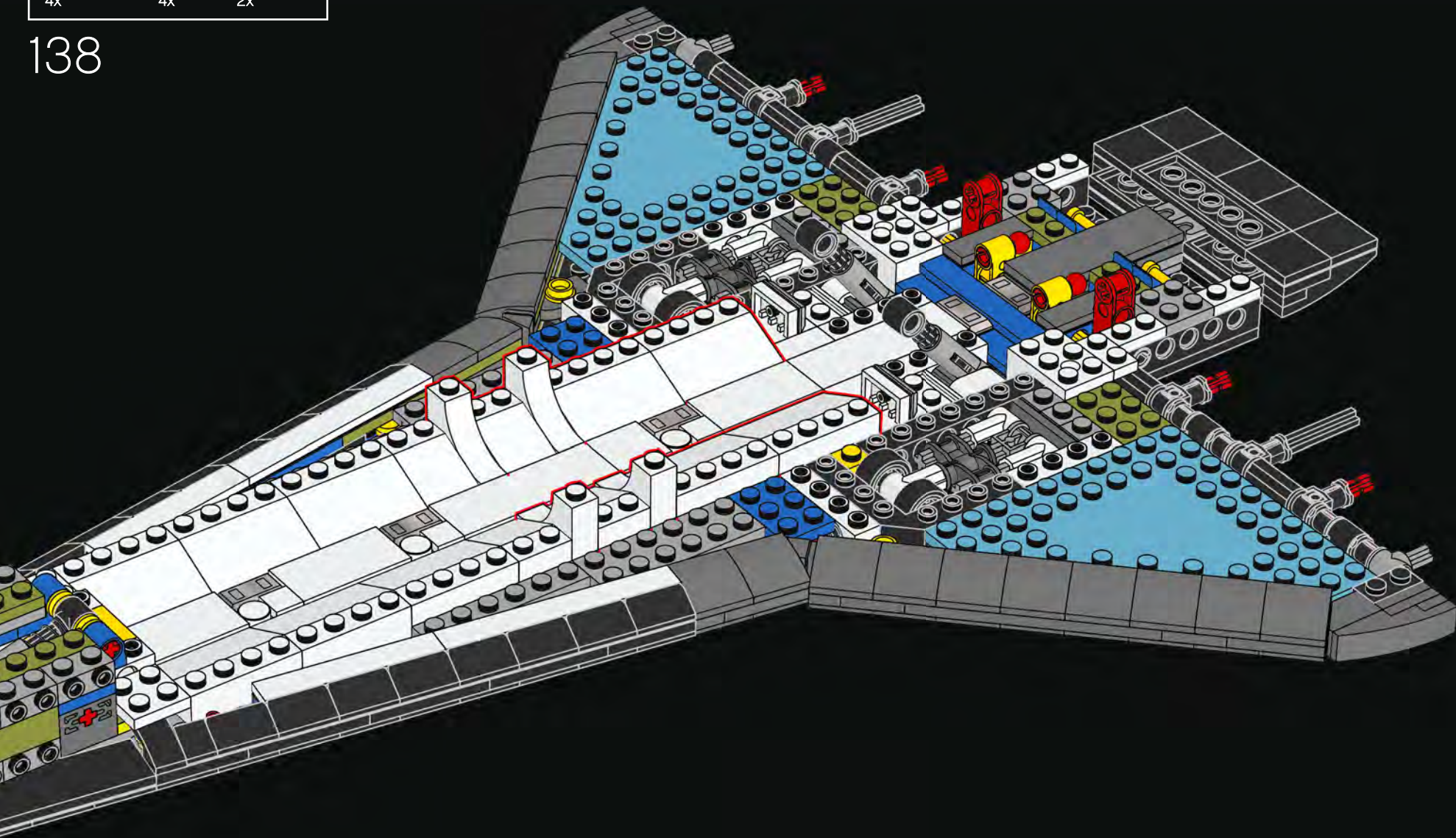


137



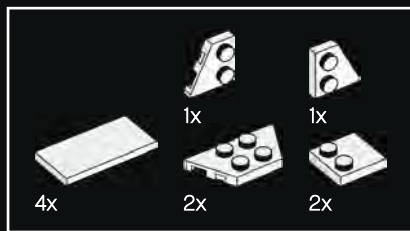


138

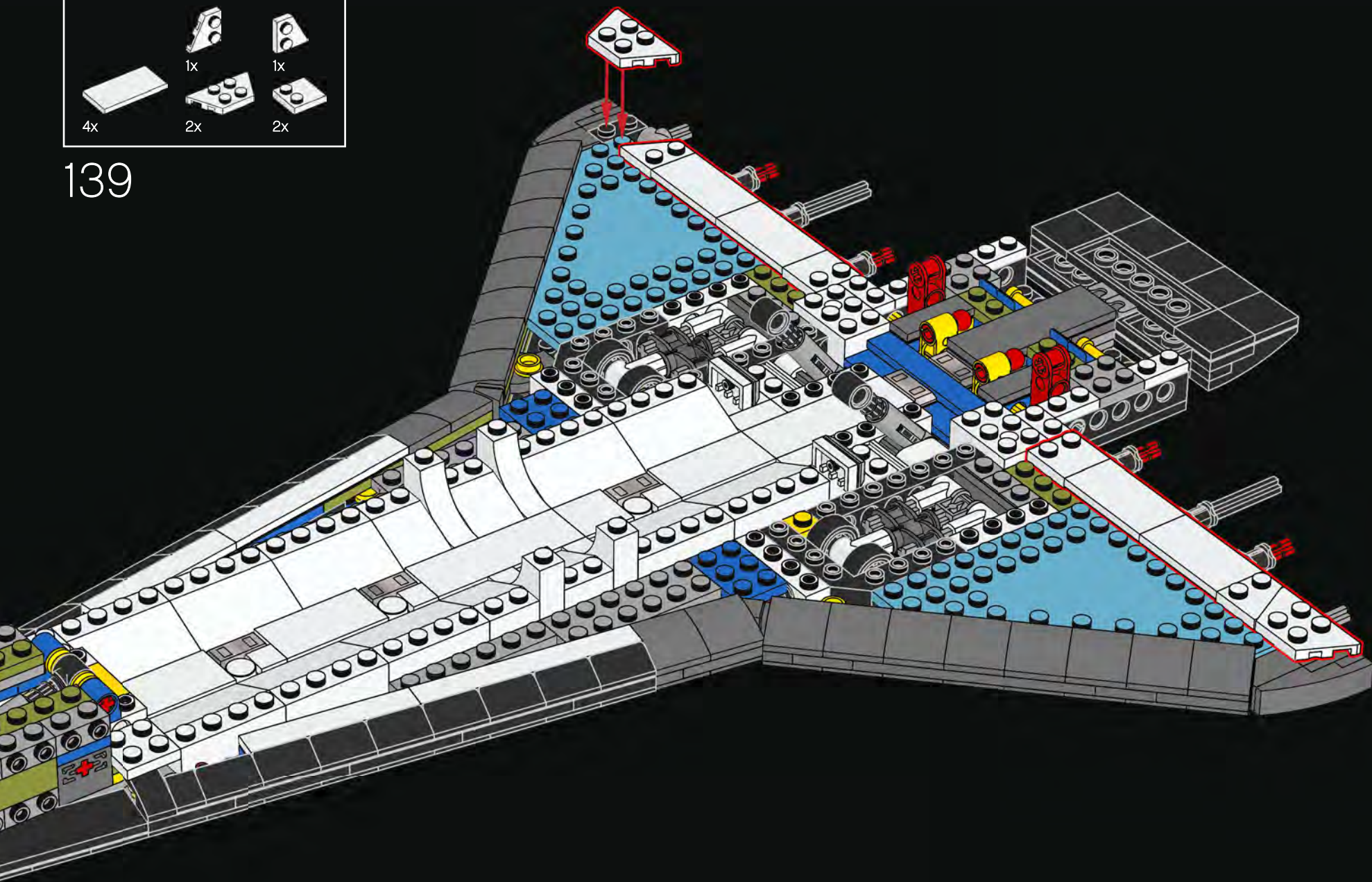


DID YOU KNOW?

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.

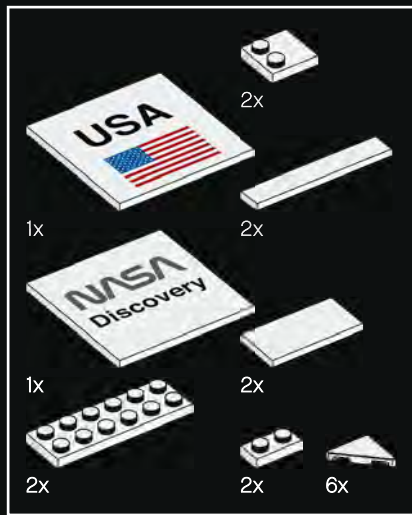


139

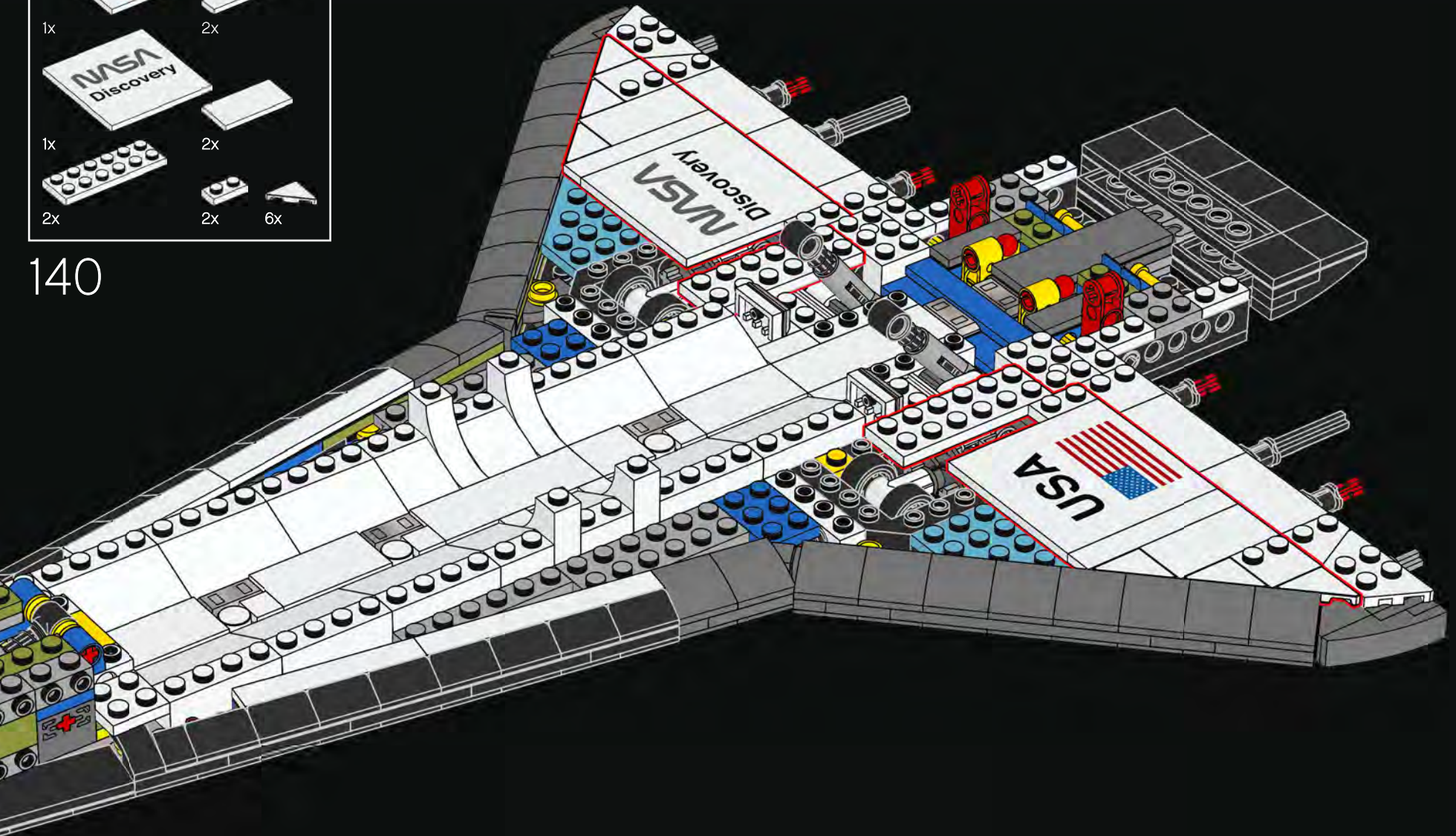


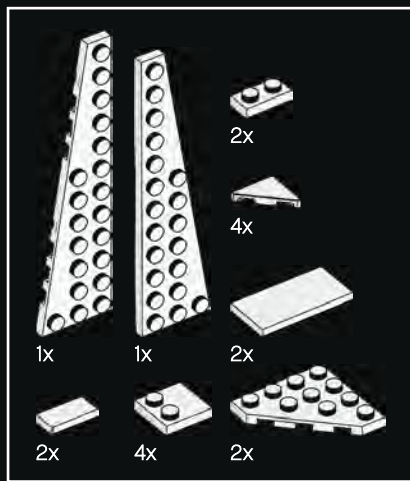
DID YOU KNOW?

Space Shuttle Discovery is covered in approximately 23,000 ceramic insulating tiles, to protect the vehicle from the intense heat of re-entry into the Earth's atmosphere.

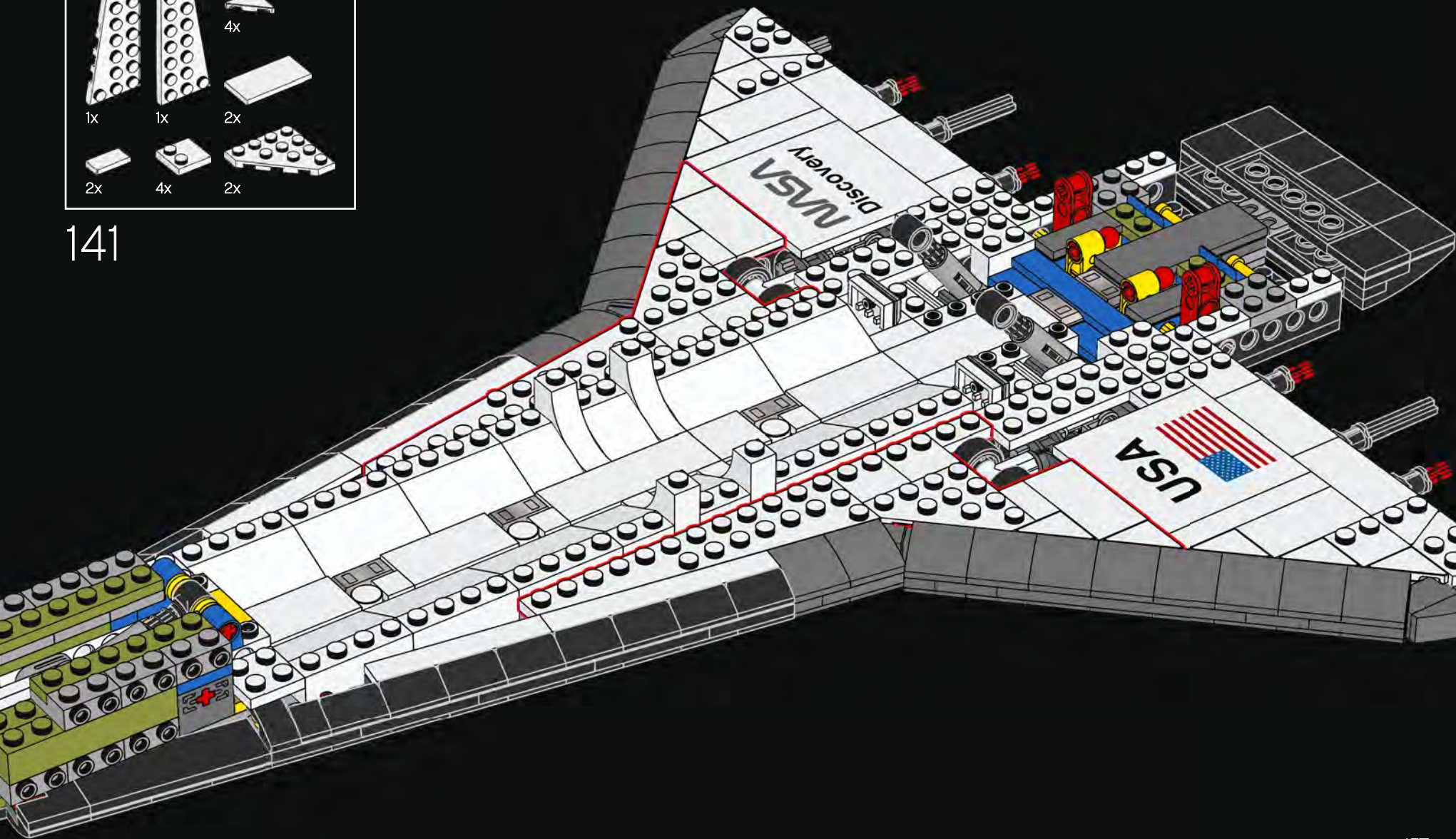


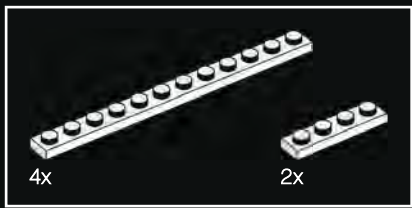
140



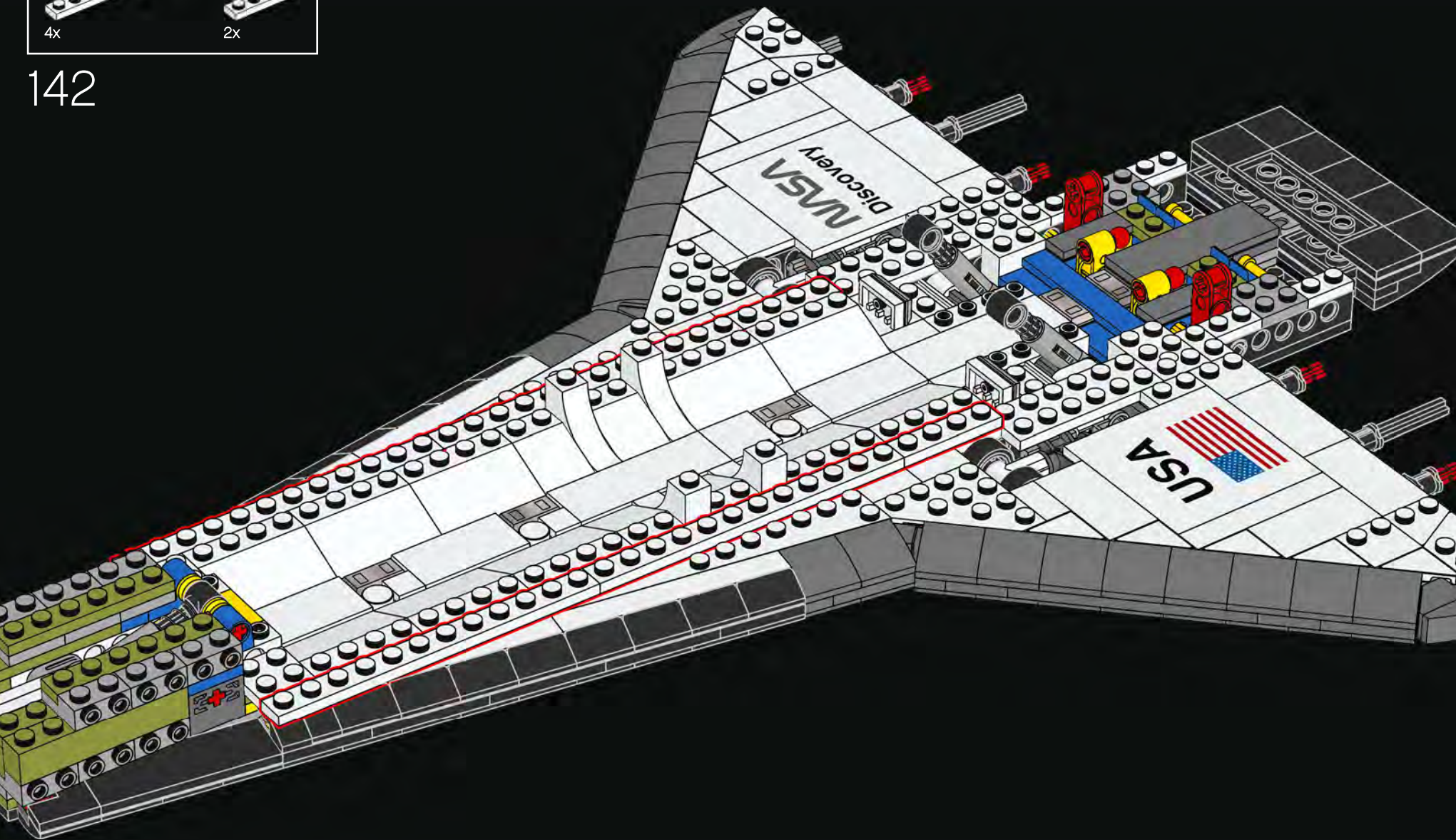


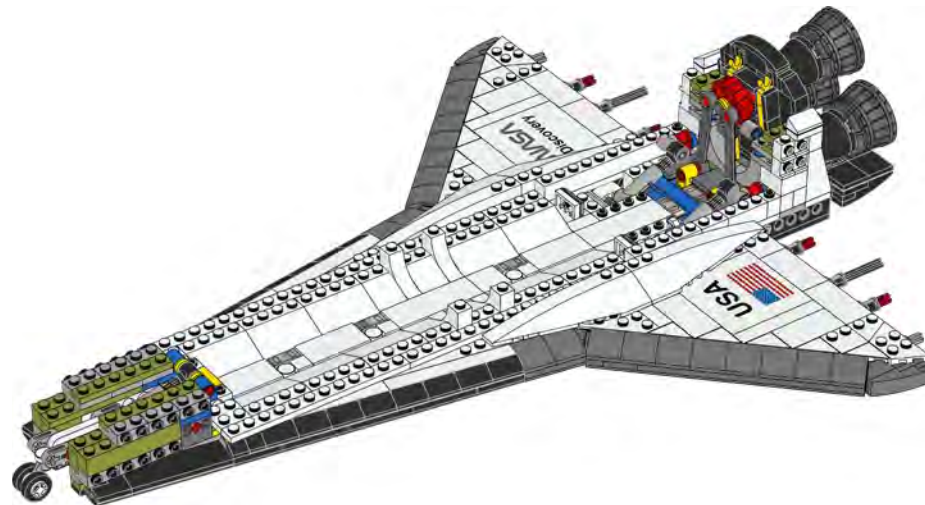
141





142

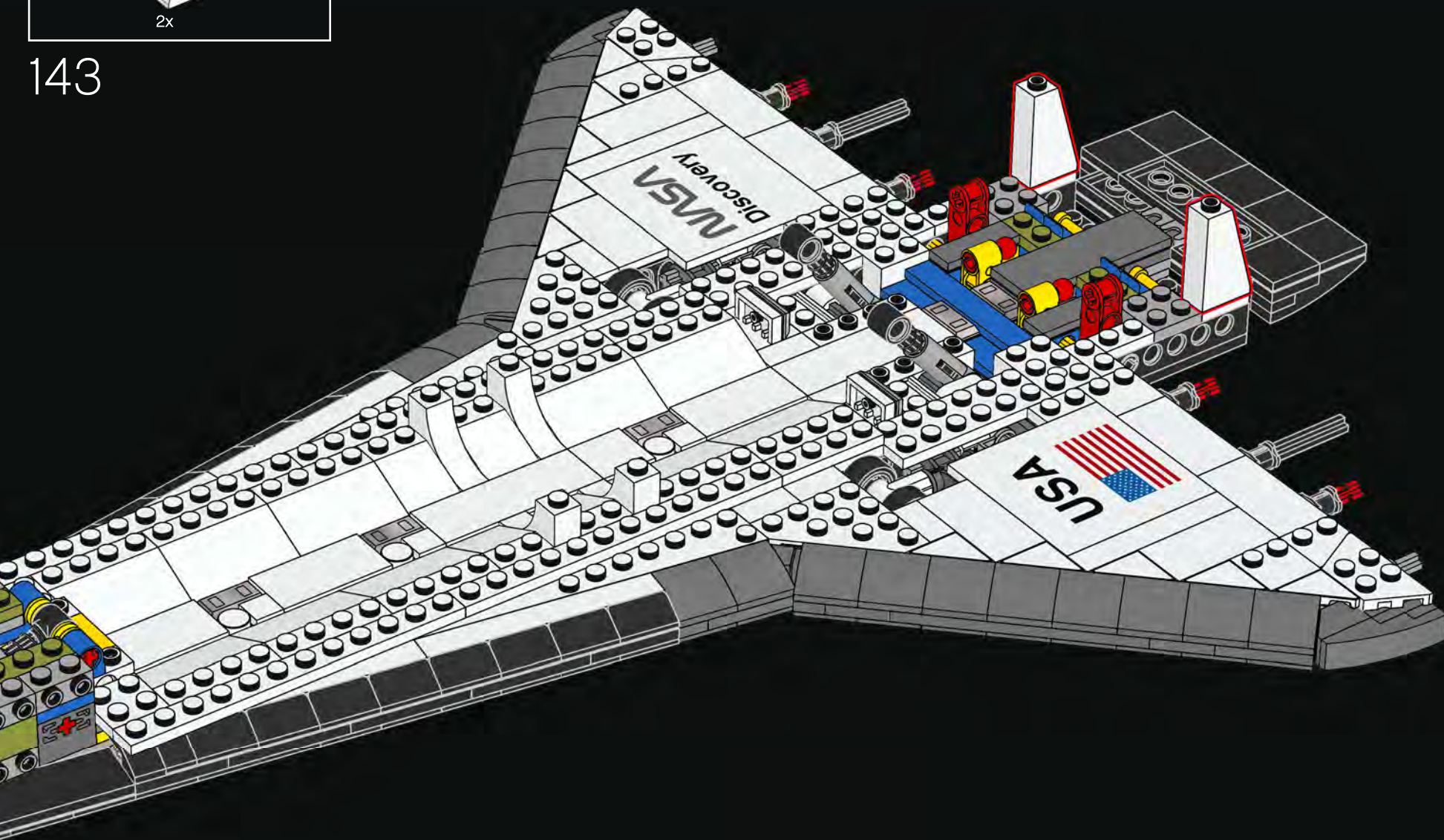






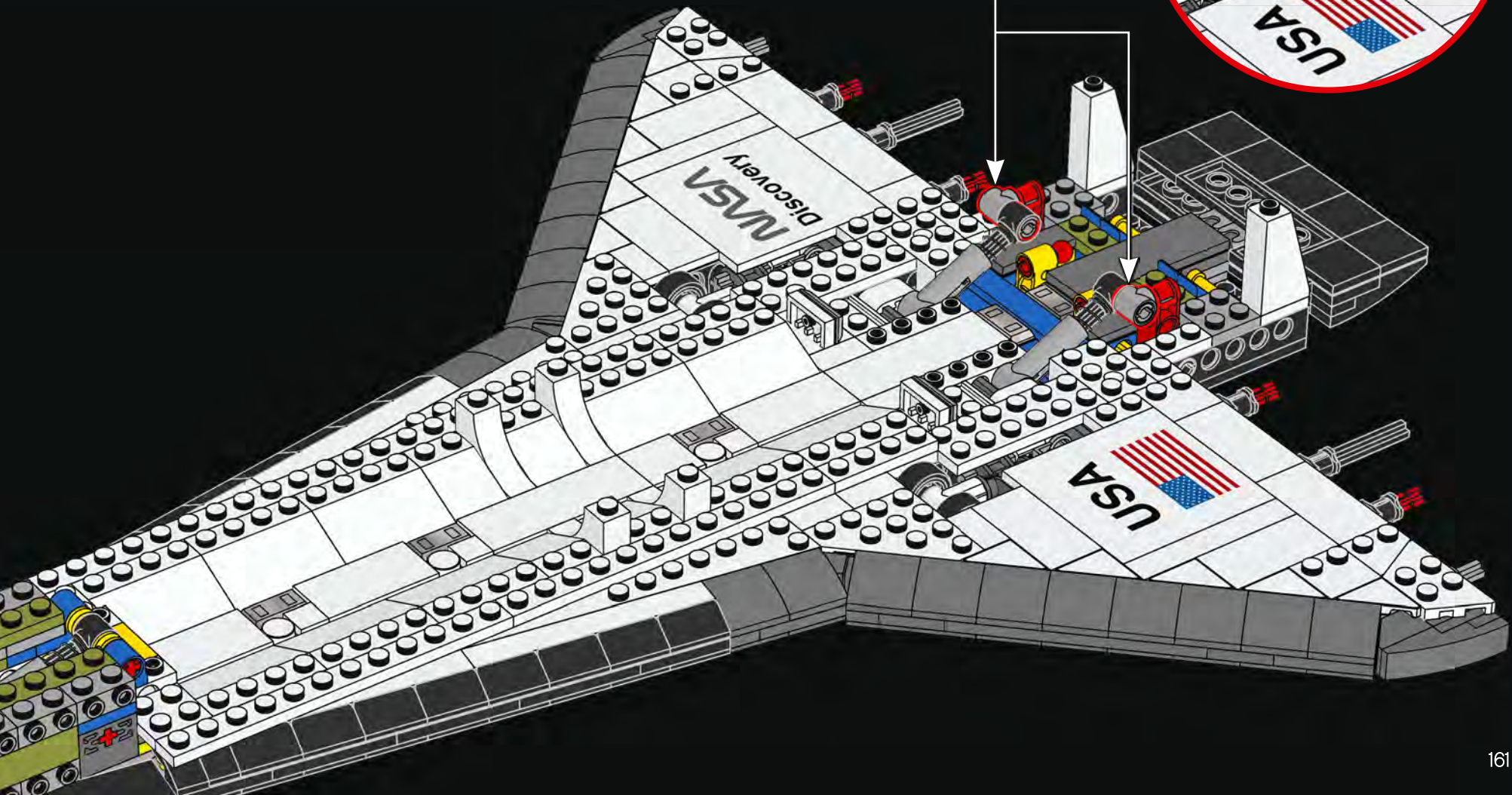
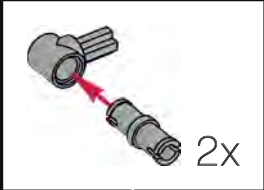
2x

143



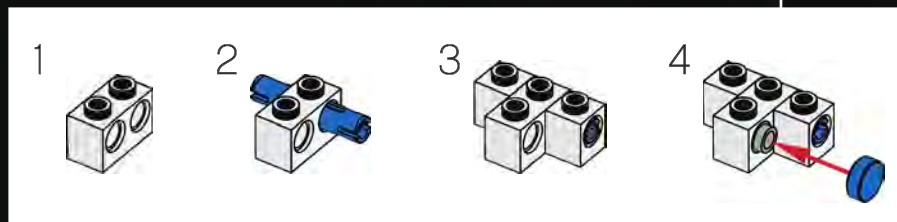
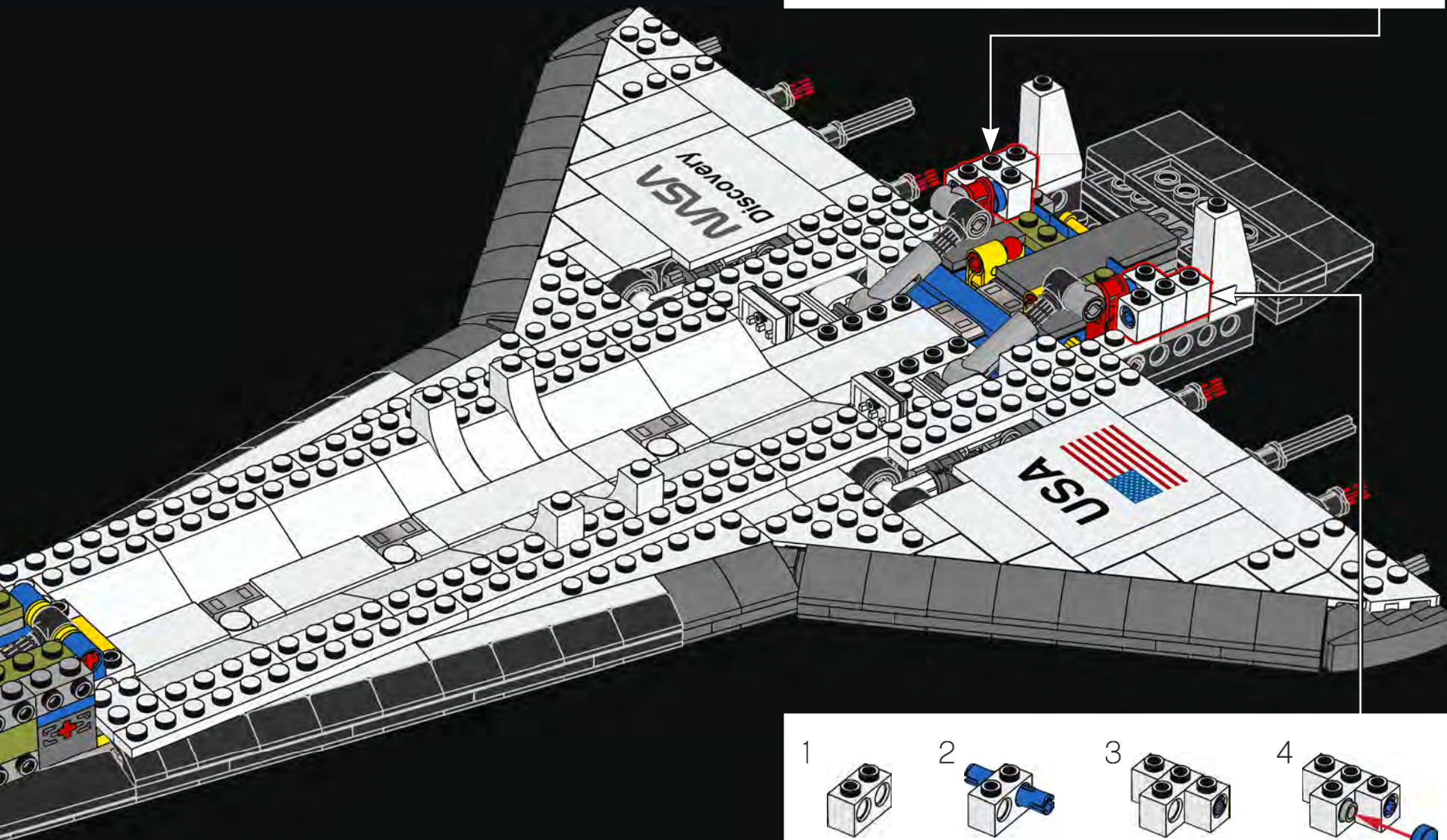
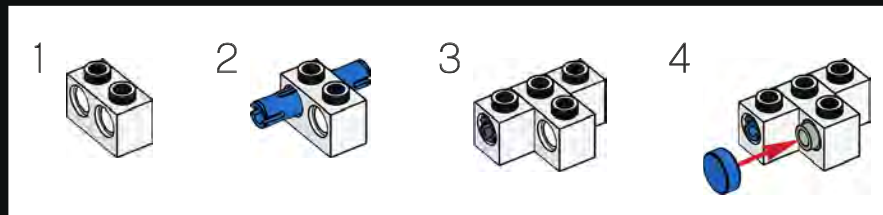


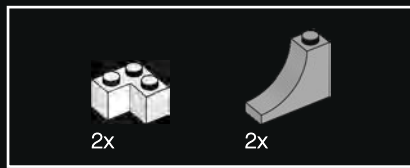
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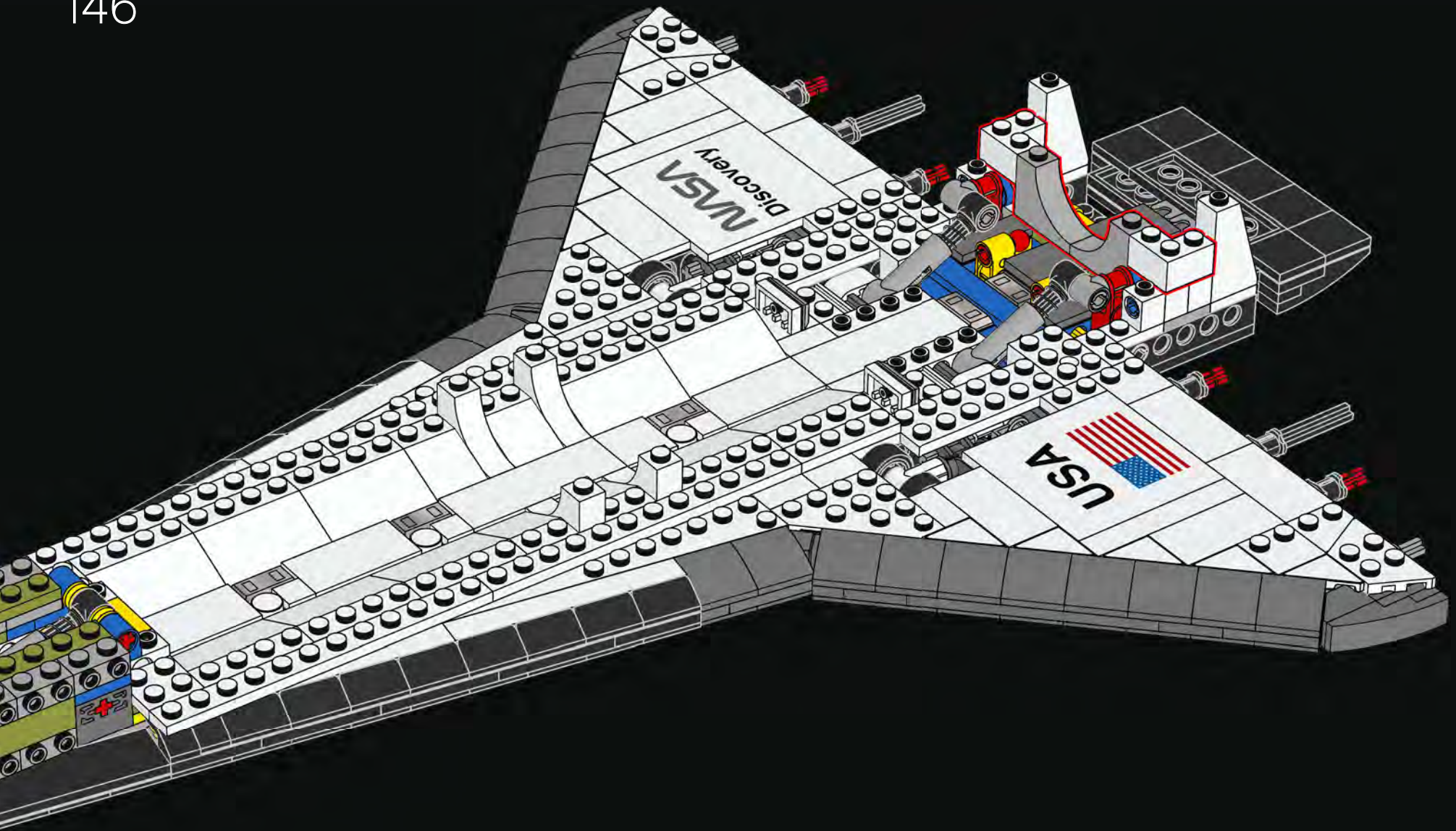


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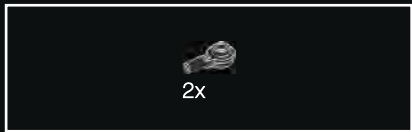


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147



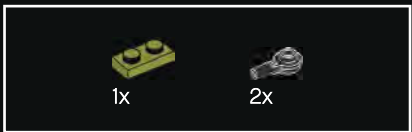
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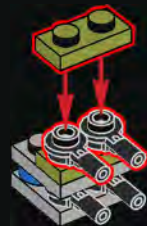
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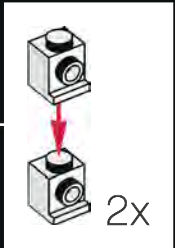
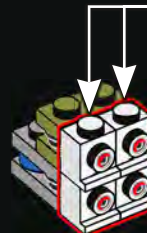
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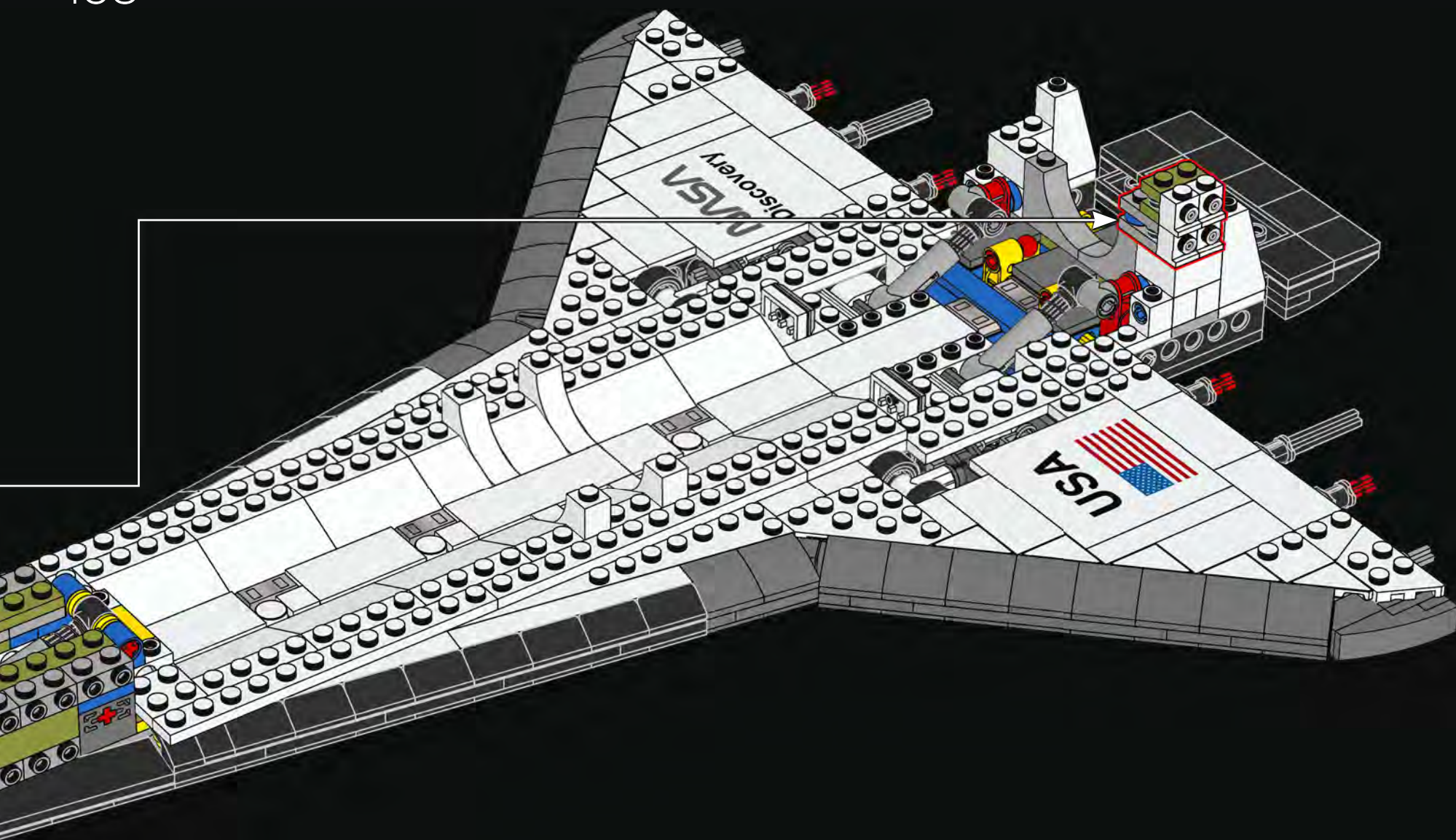


151



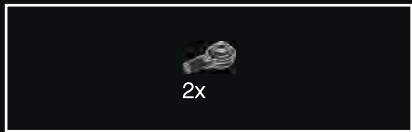
152







154



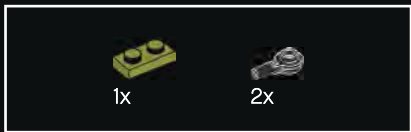
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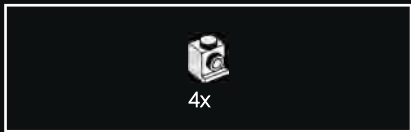
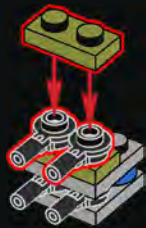
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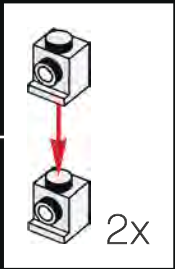
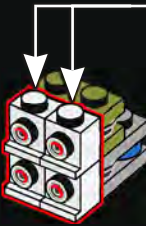
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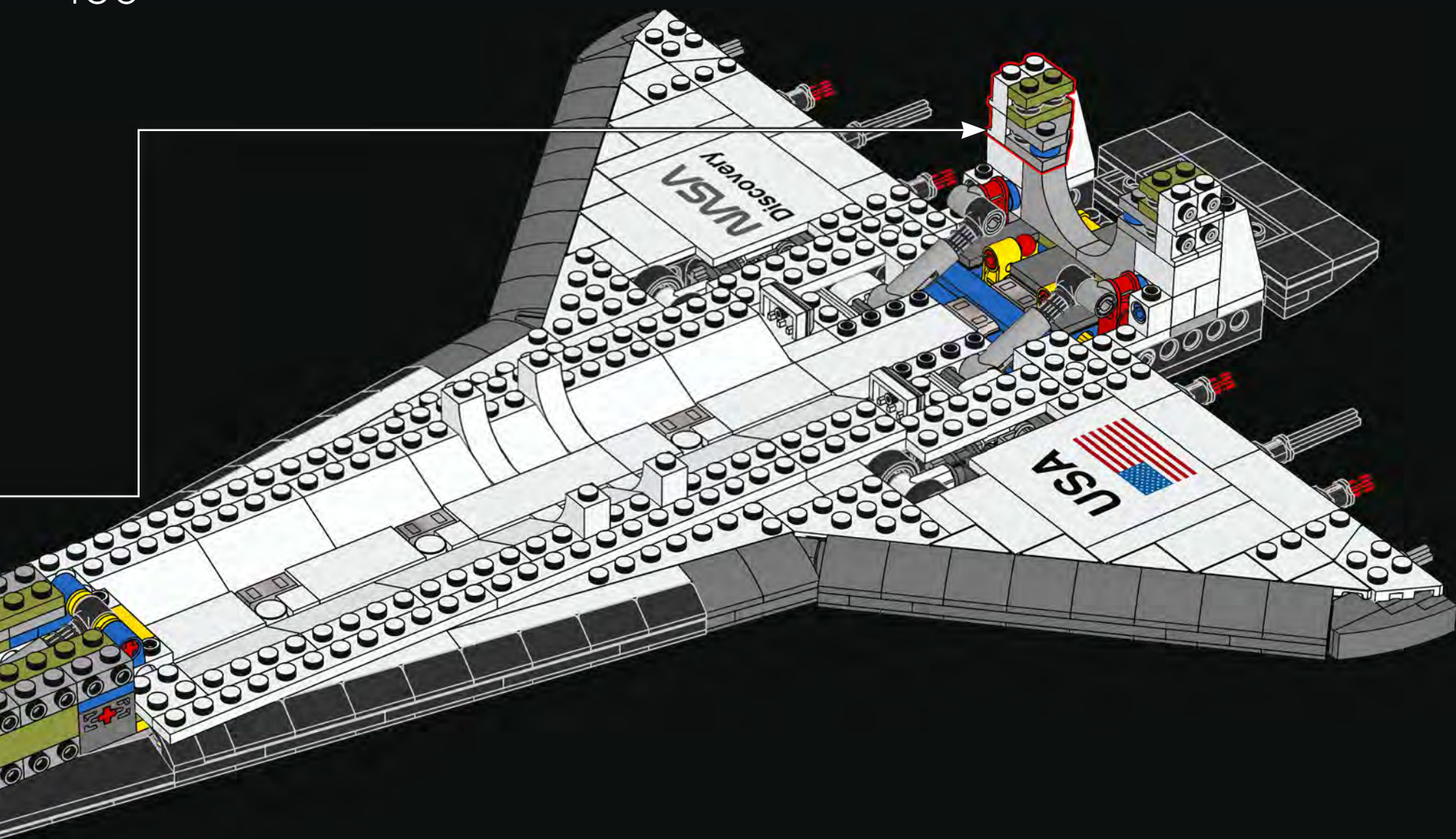
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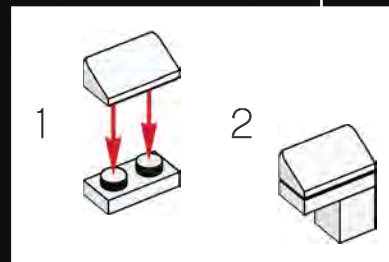


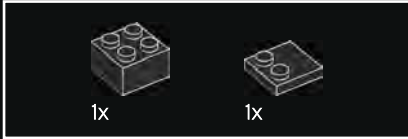
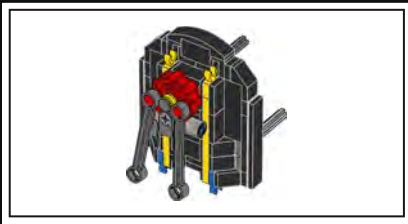
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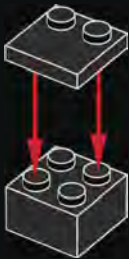
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162



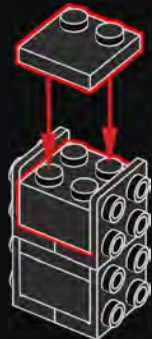
163



164



165





2x

166



1x



1x

167



2x

168



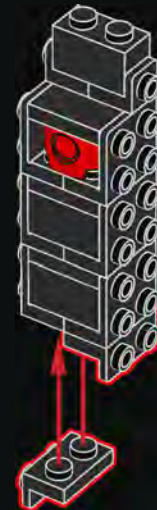
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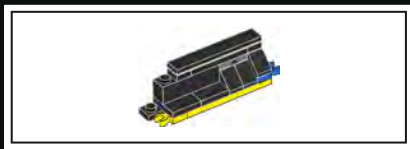
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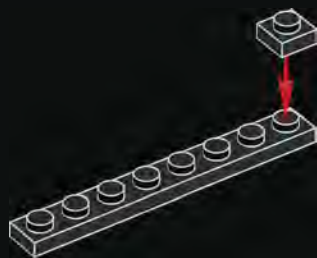
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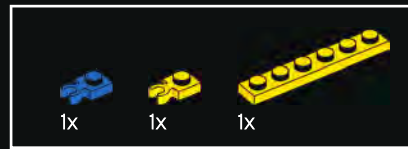




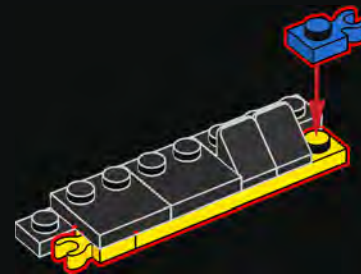
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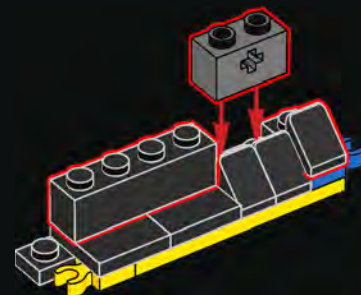
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173

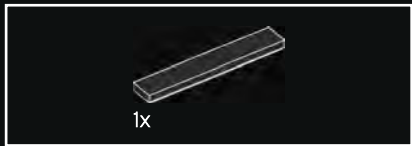
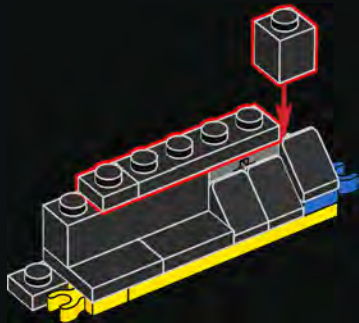


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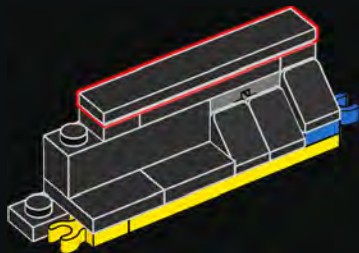




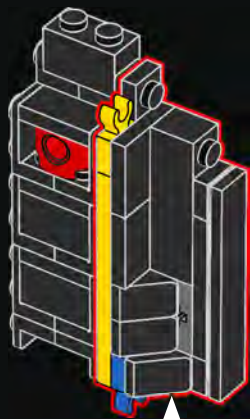
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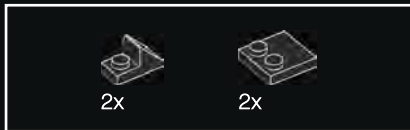
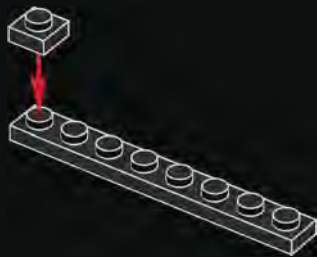


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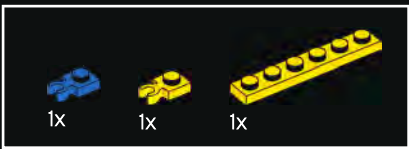




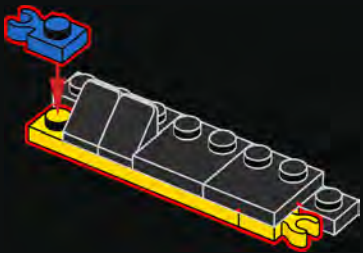
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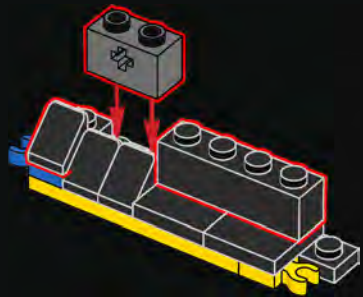
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180

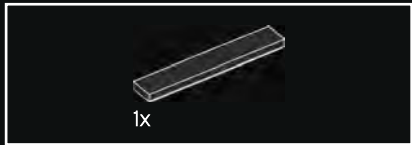
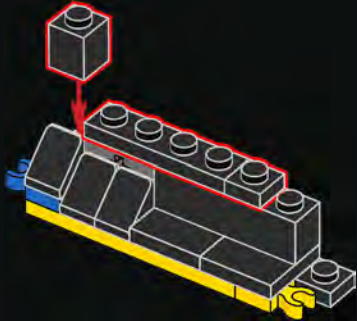


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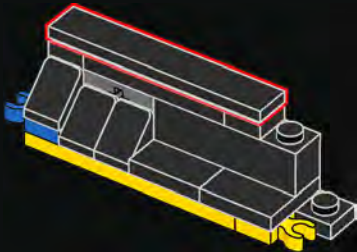




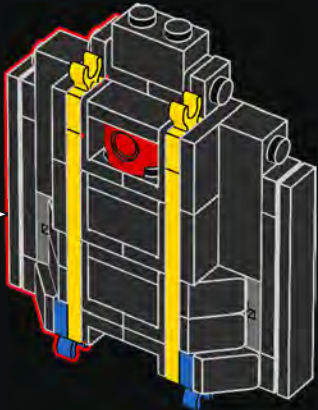
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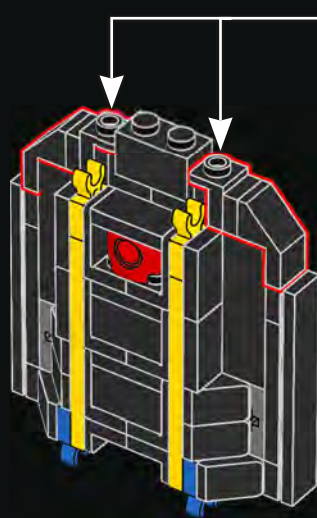
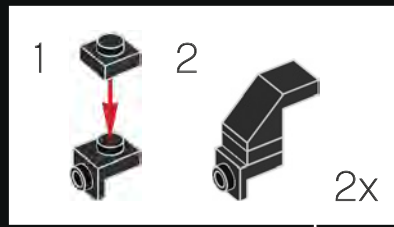


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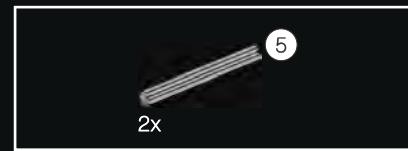
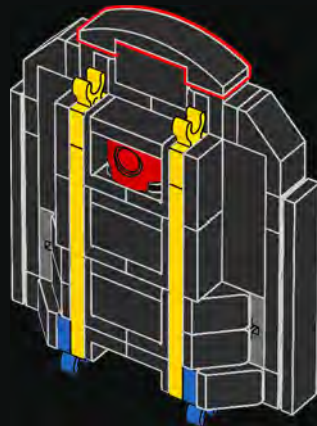




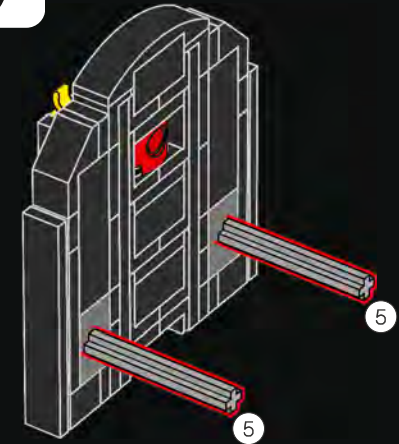
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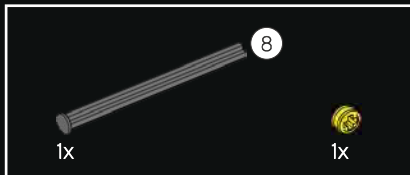


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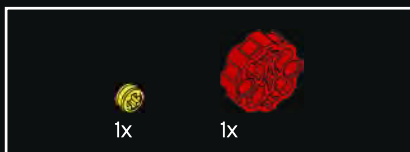


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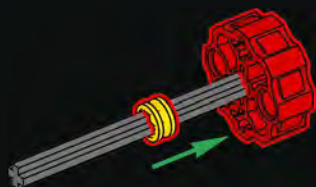




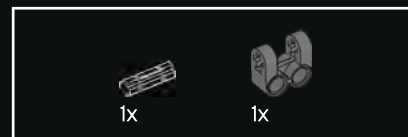
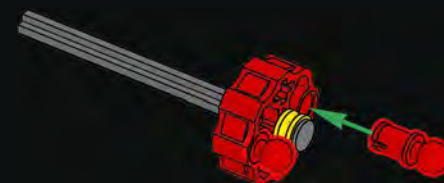
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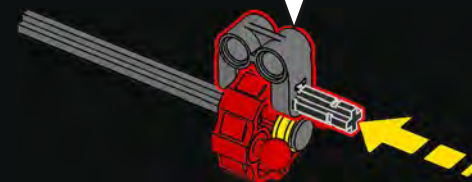
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190

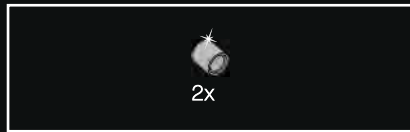
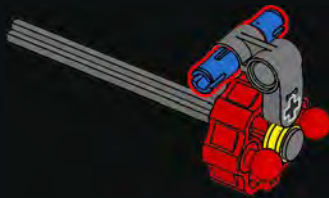


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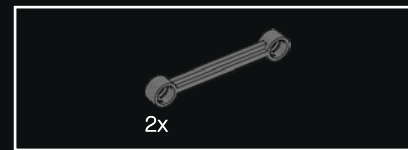
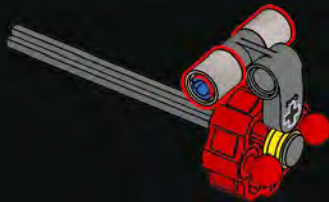




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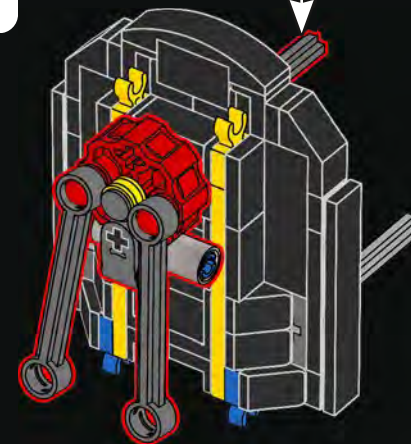
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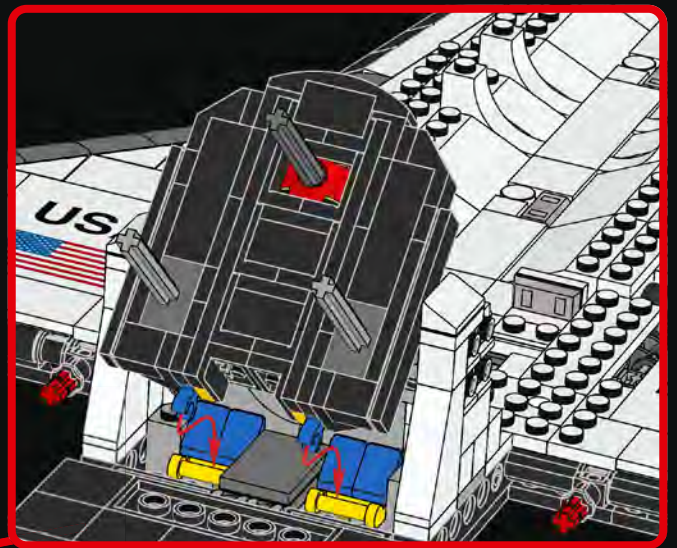
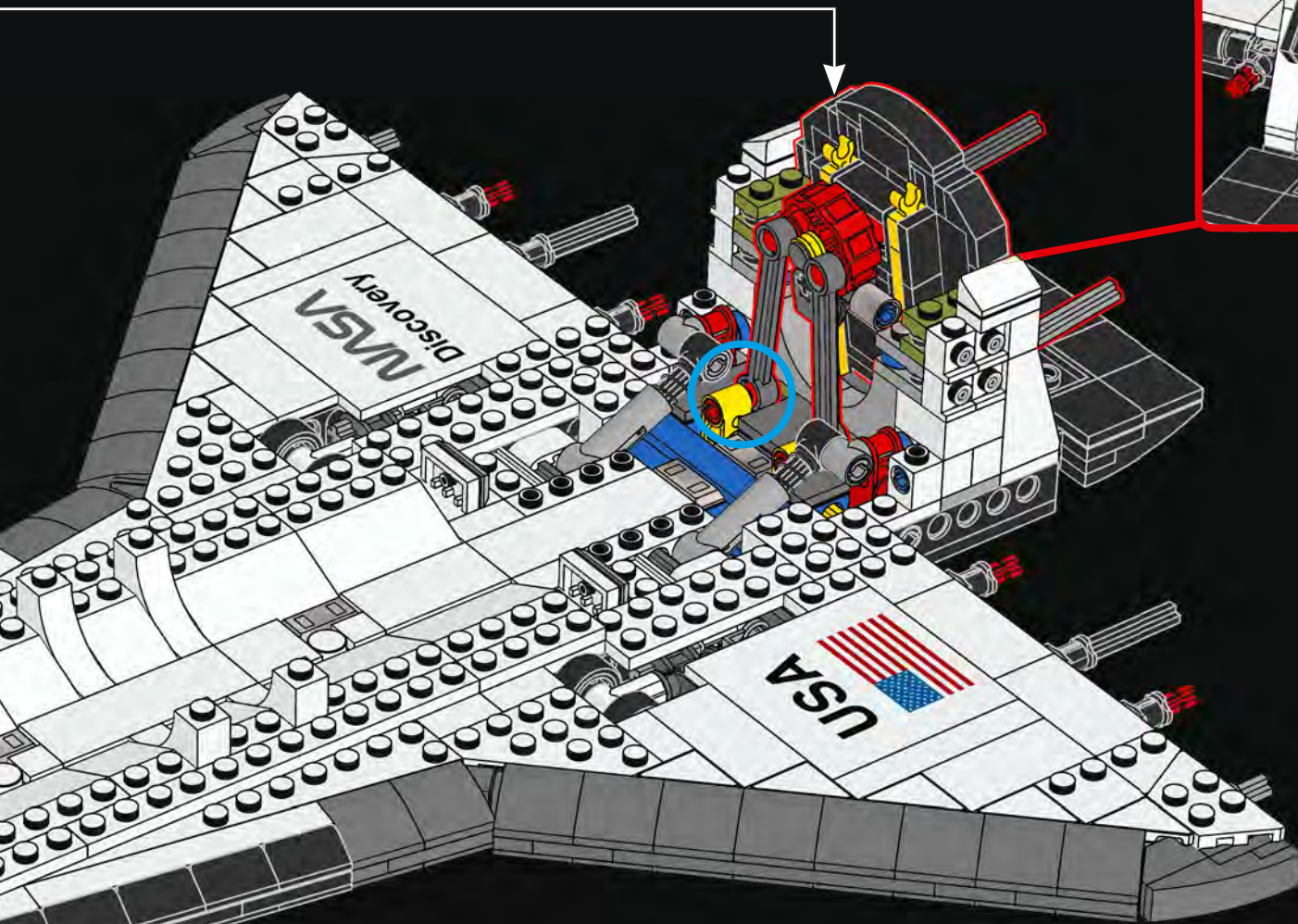
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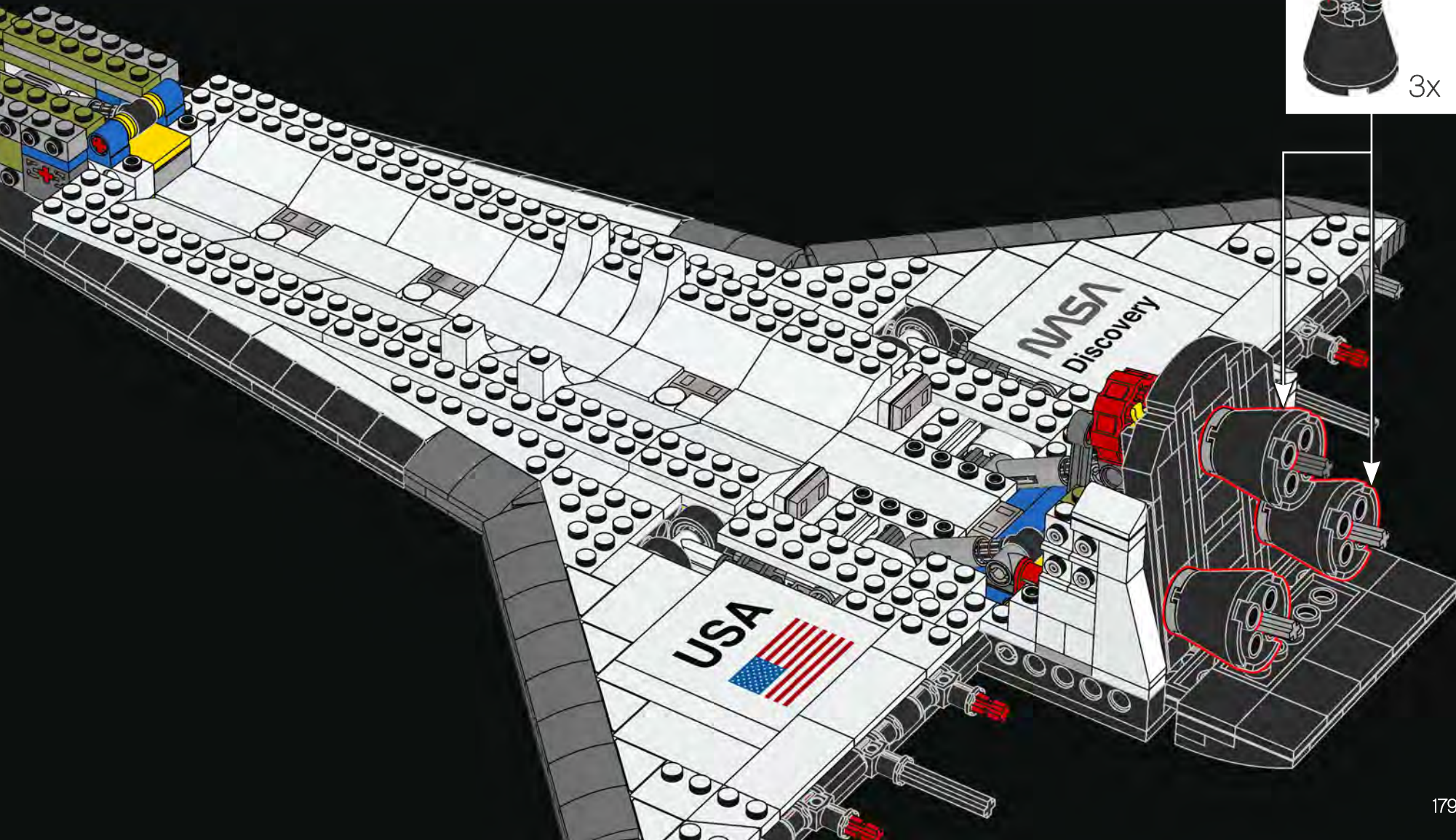


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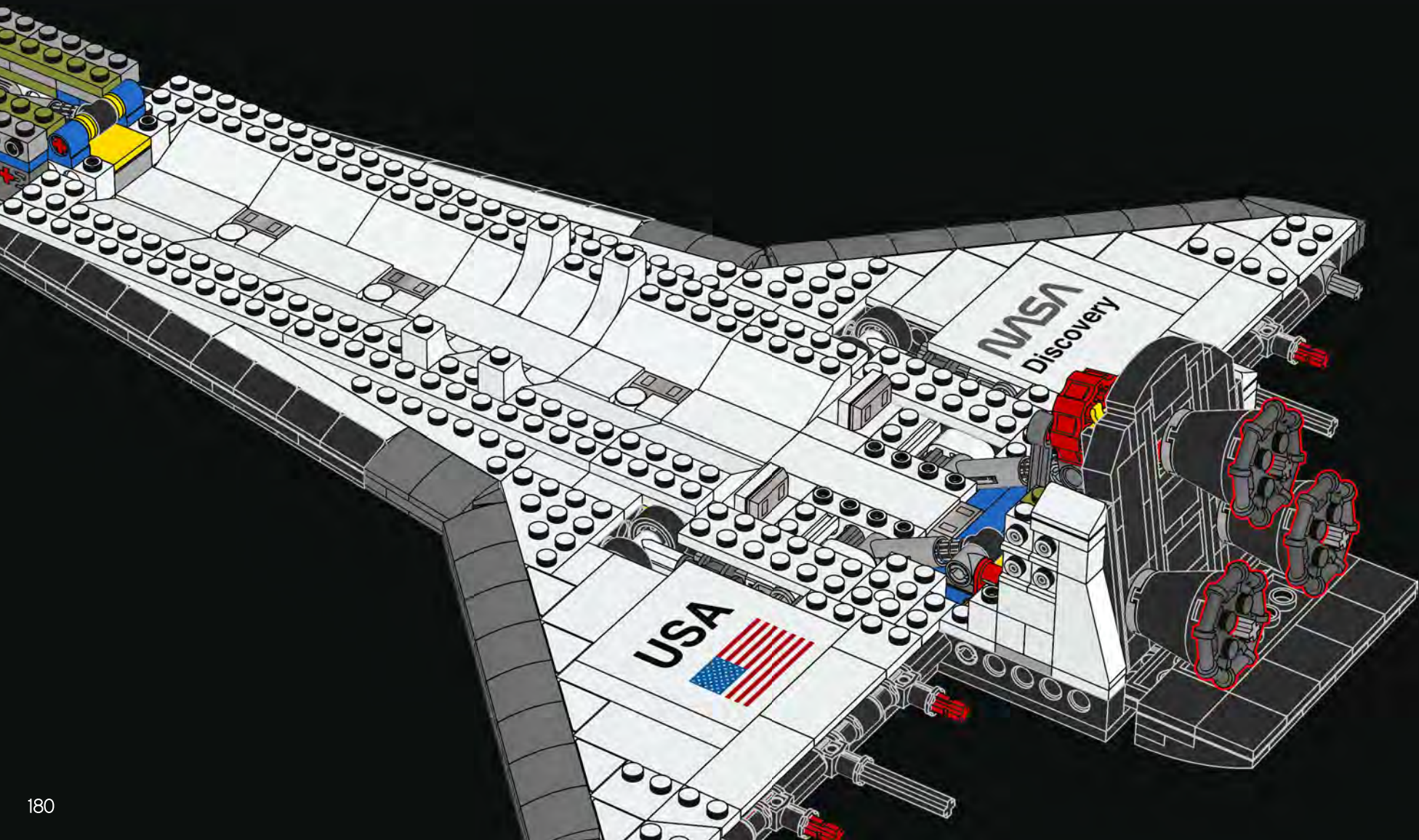


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198

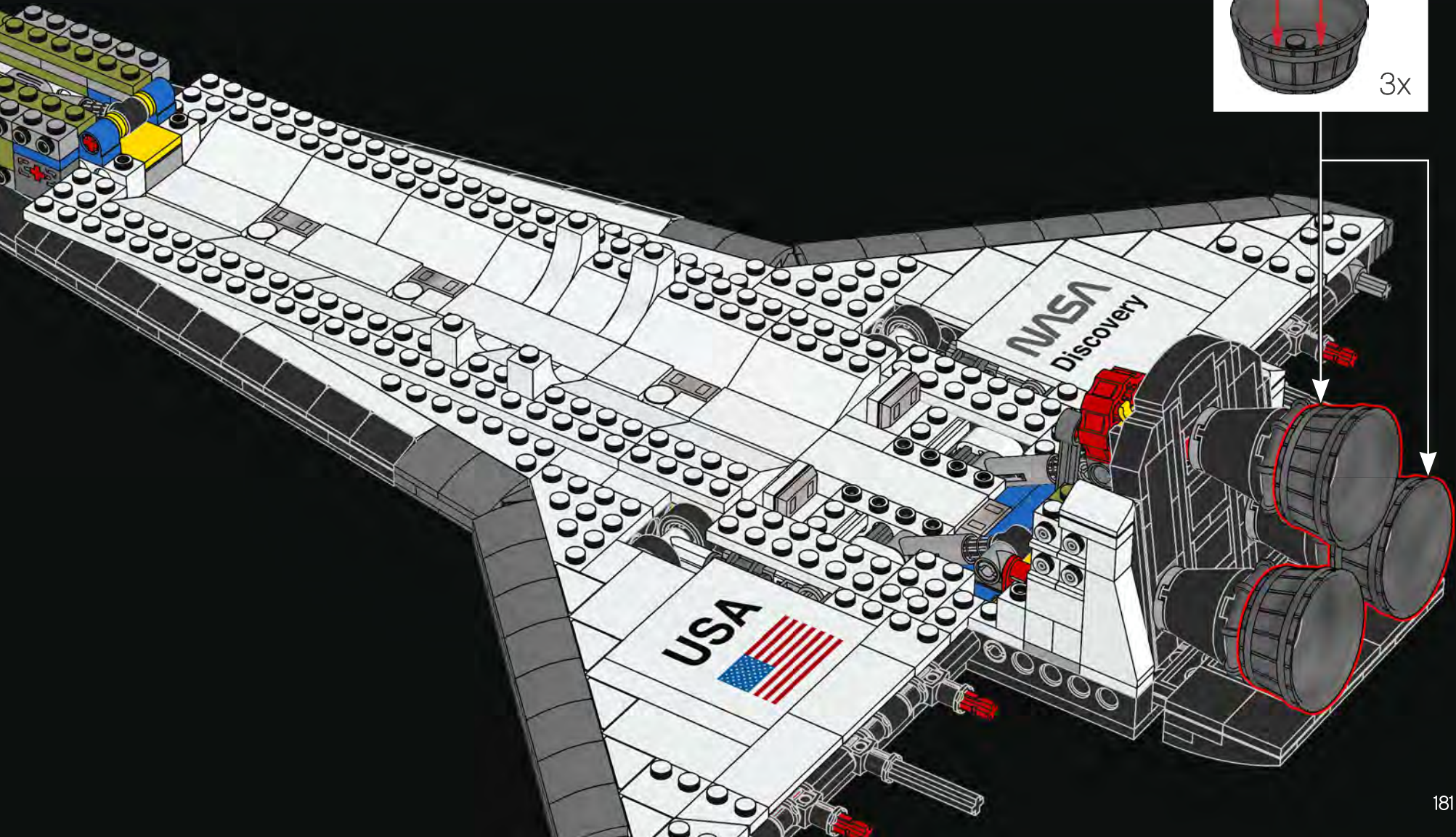


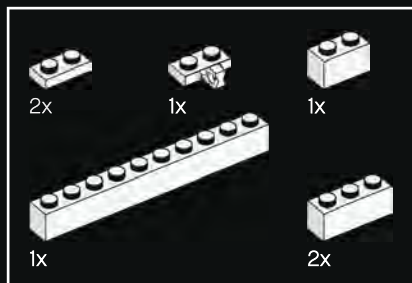


DID YOU KNOW?

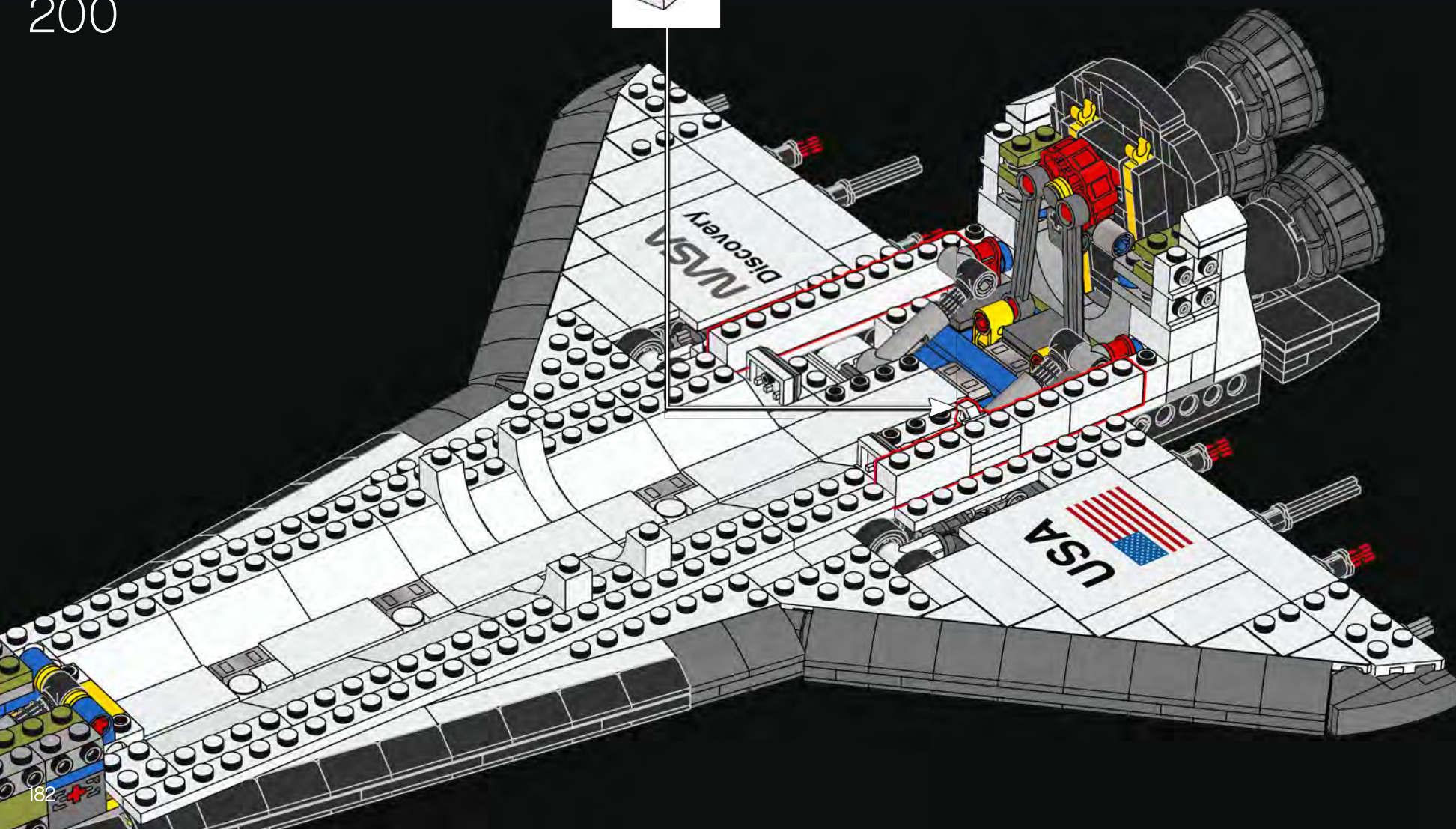
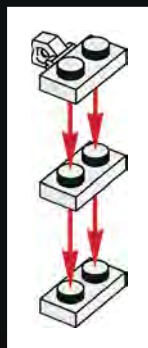
By pumping super-cold liquid hydrogen fuel through 1,080 tubes in the nozzle wall before it enters the main combustion chamber, the engine is kept at a cool 10 degrees Celsius (50 degrees Fahrenheit).

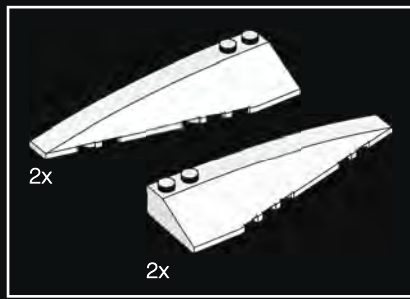
199



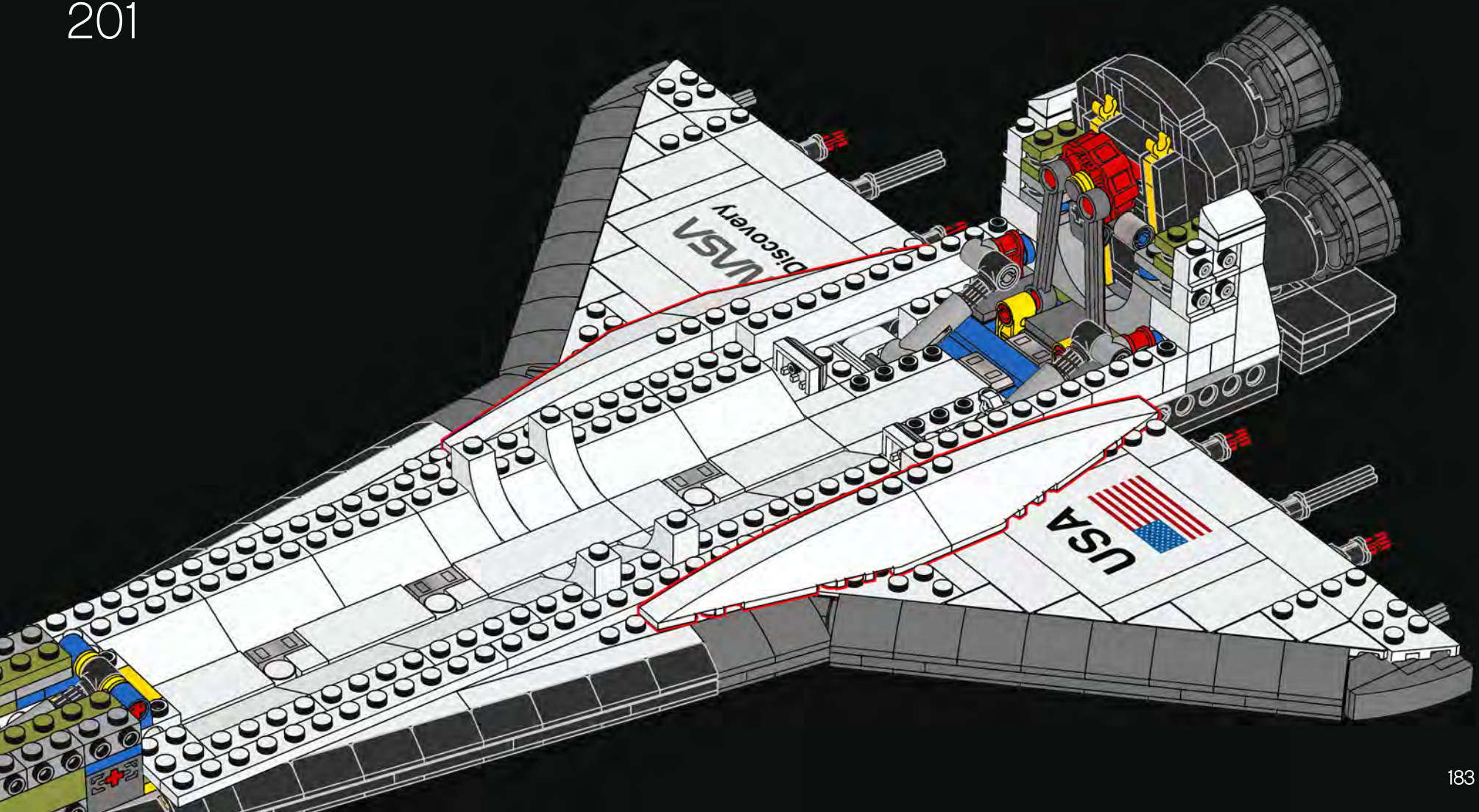


200

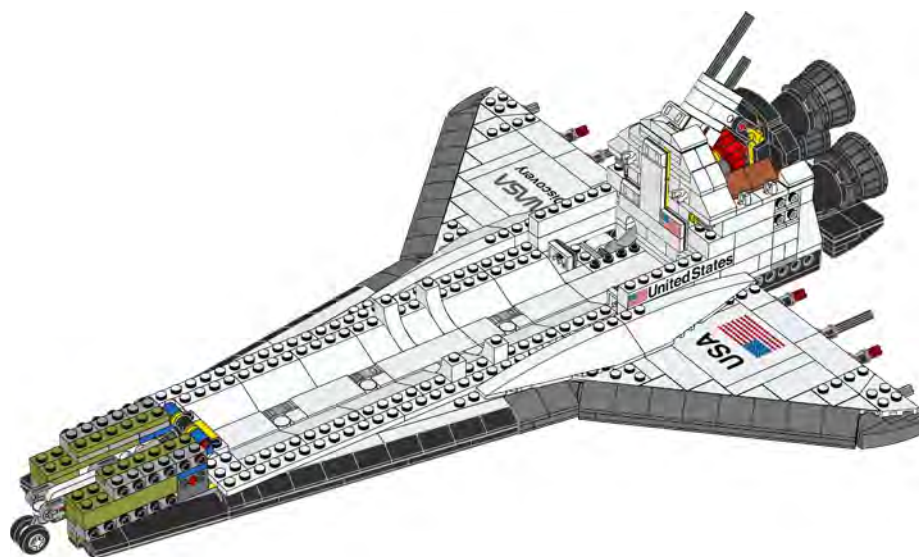


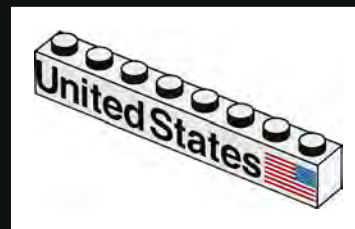


201



11

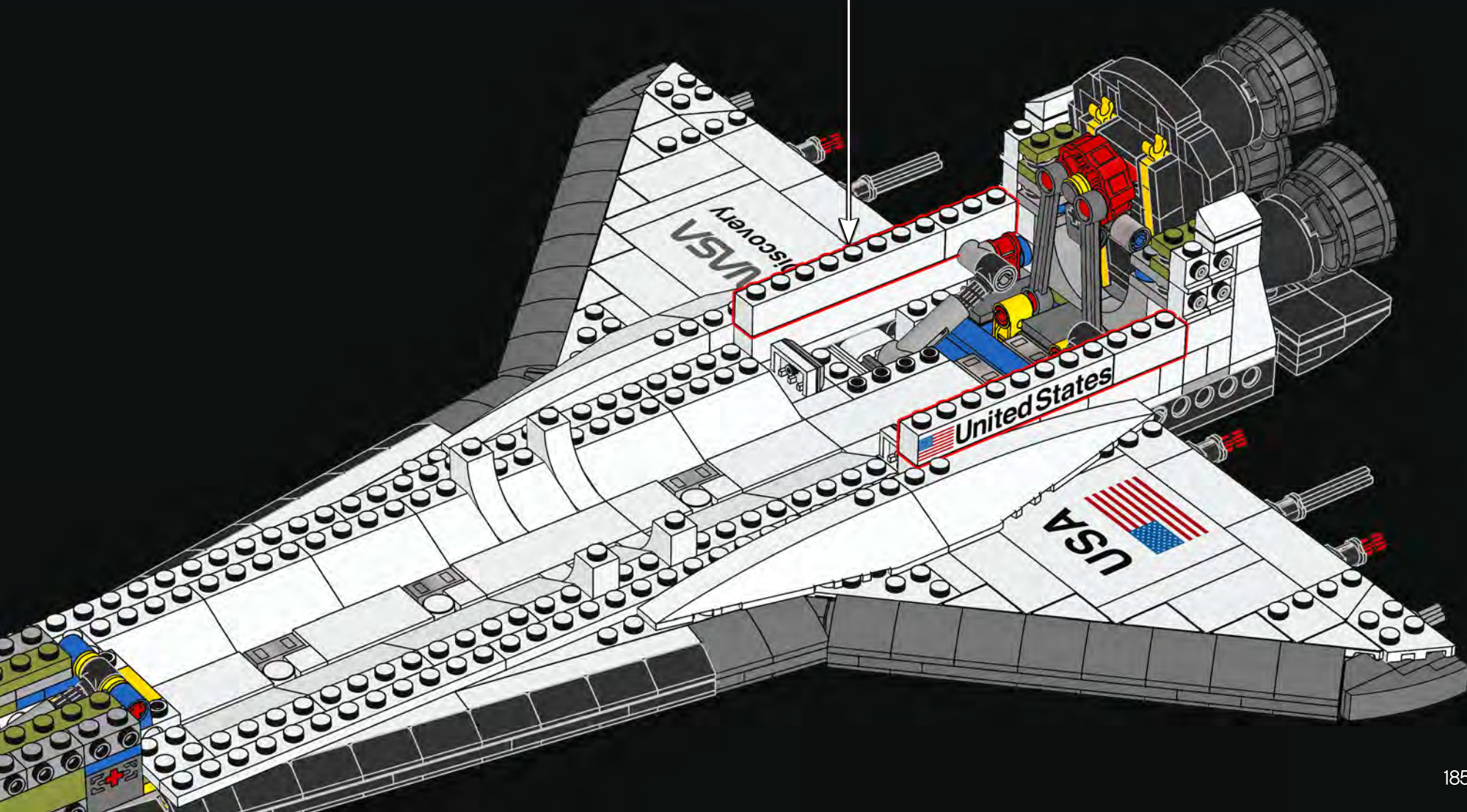




DID YOU KNOW?

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

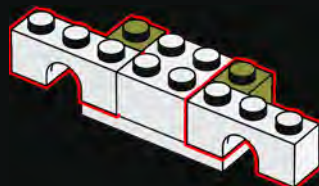




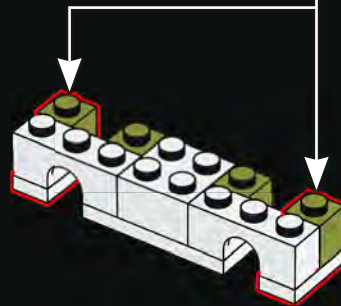
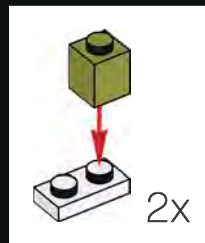
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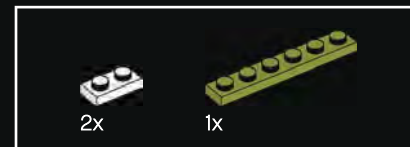
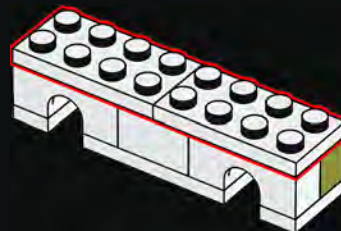
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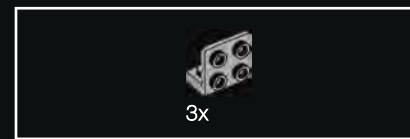
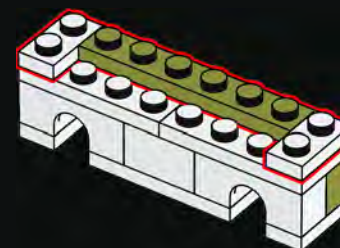
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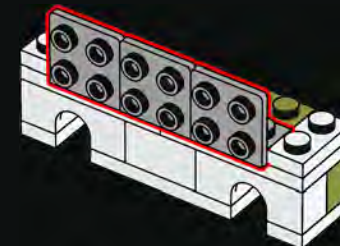
206



207

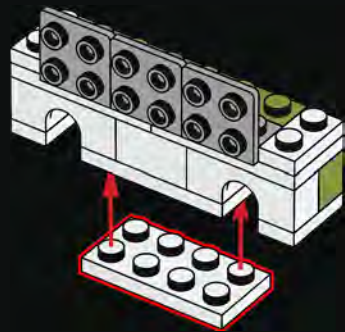


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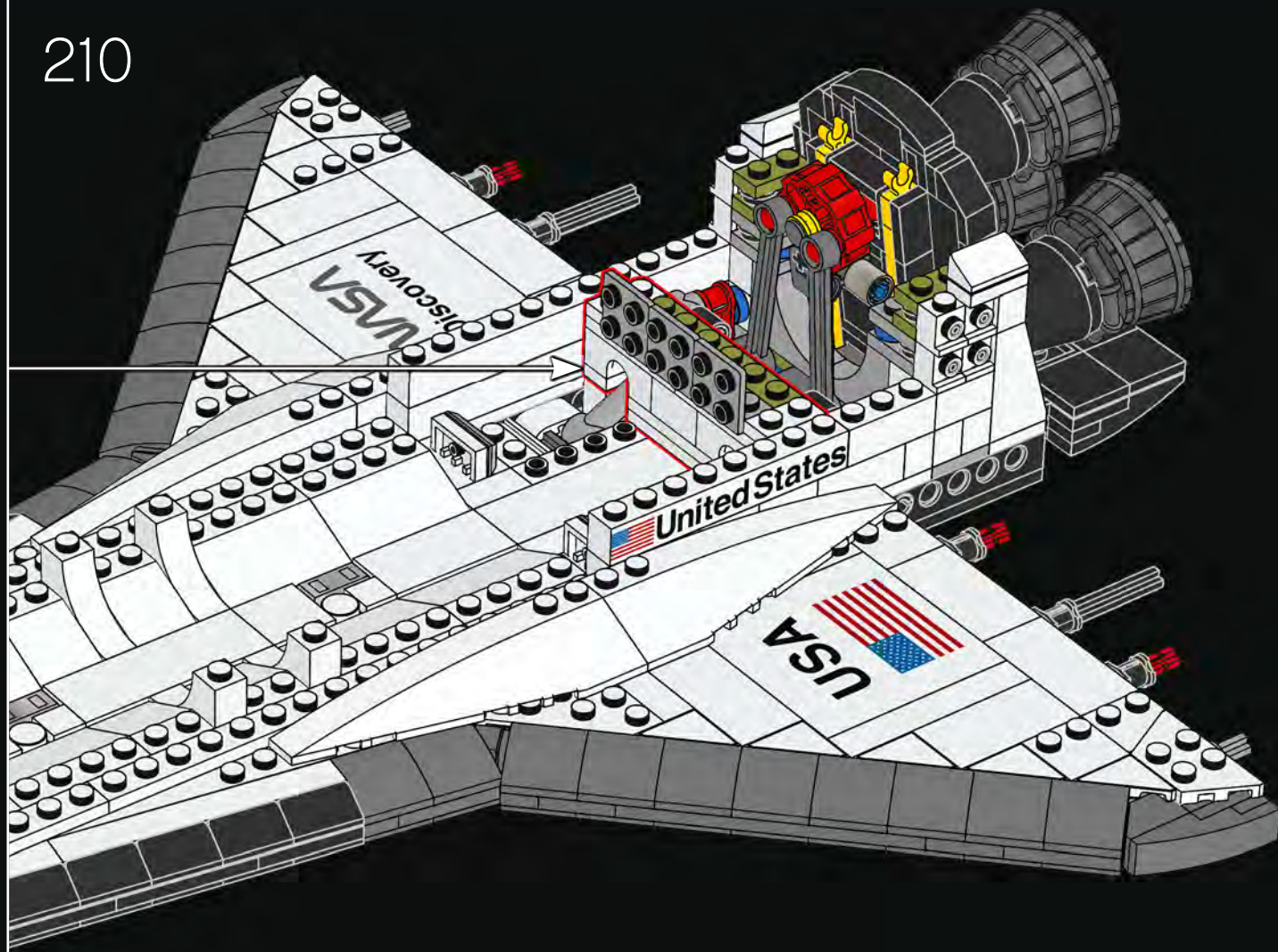


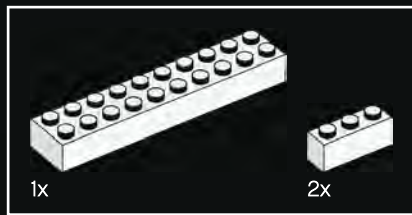


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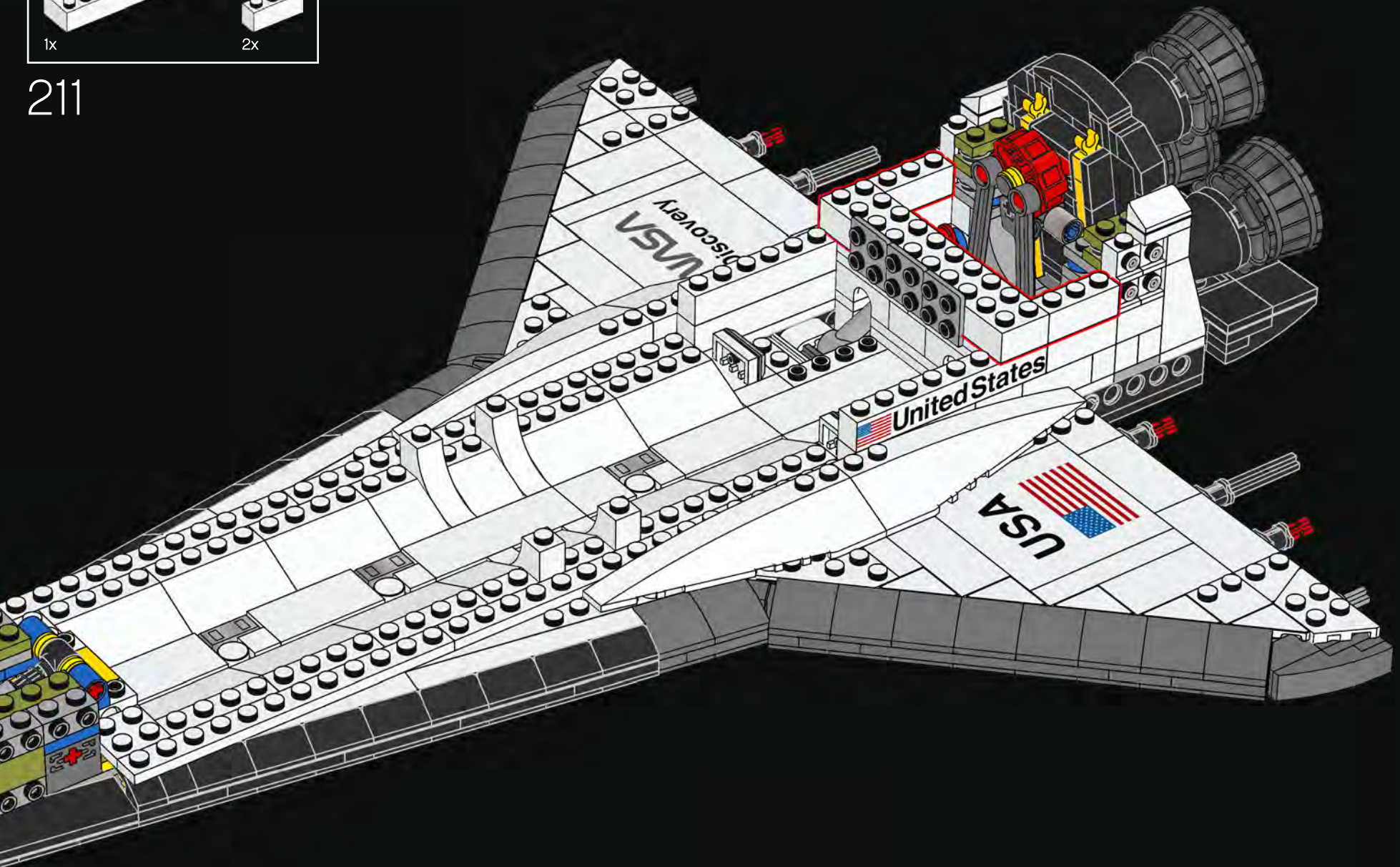


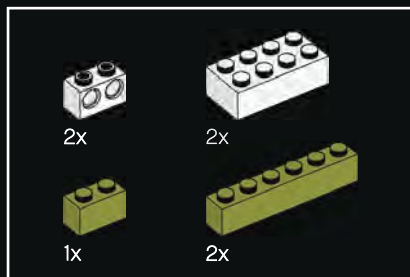
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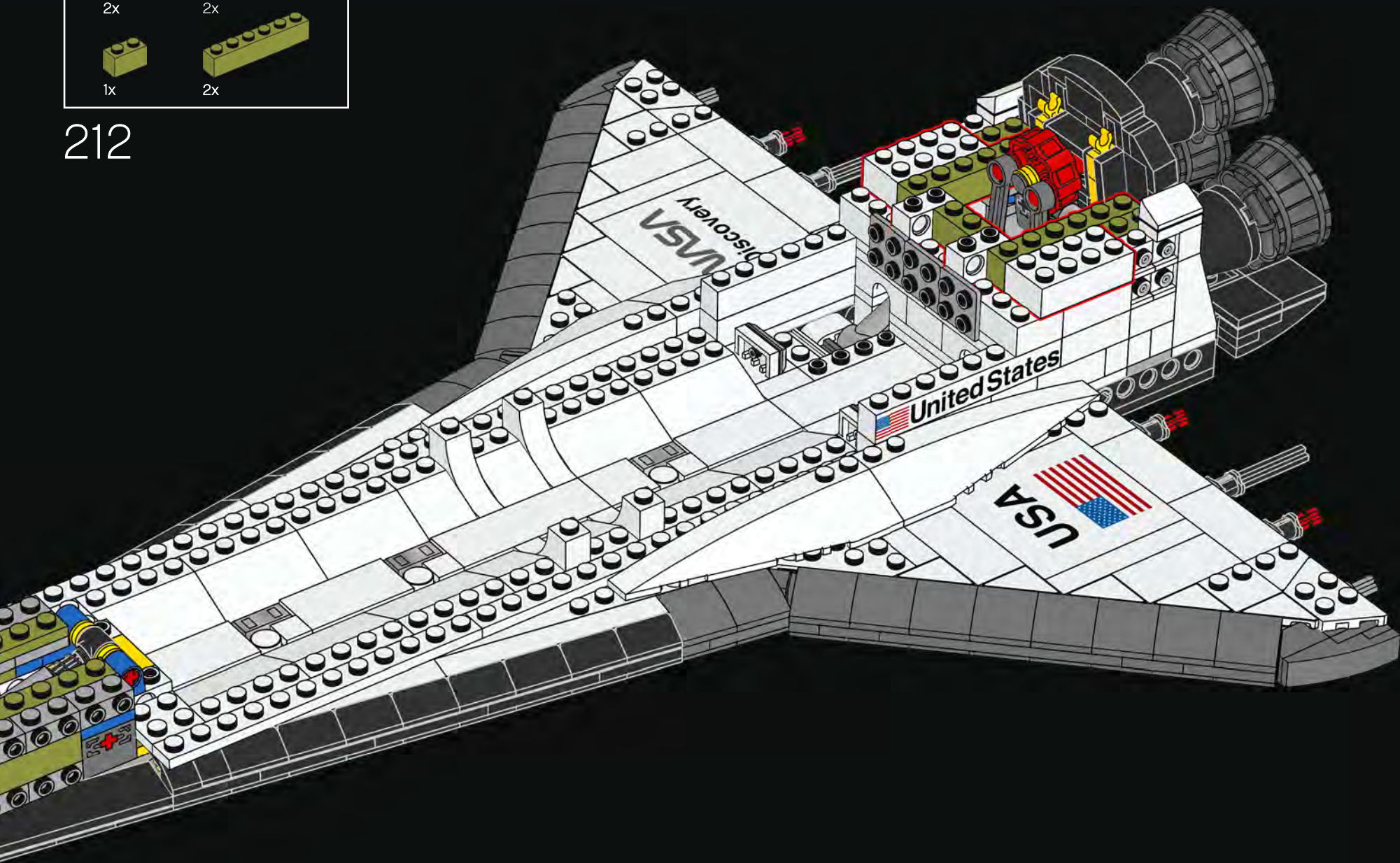


211





212

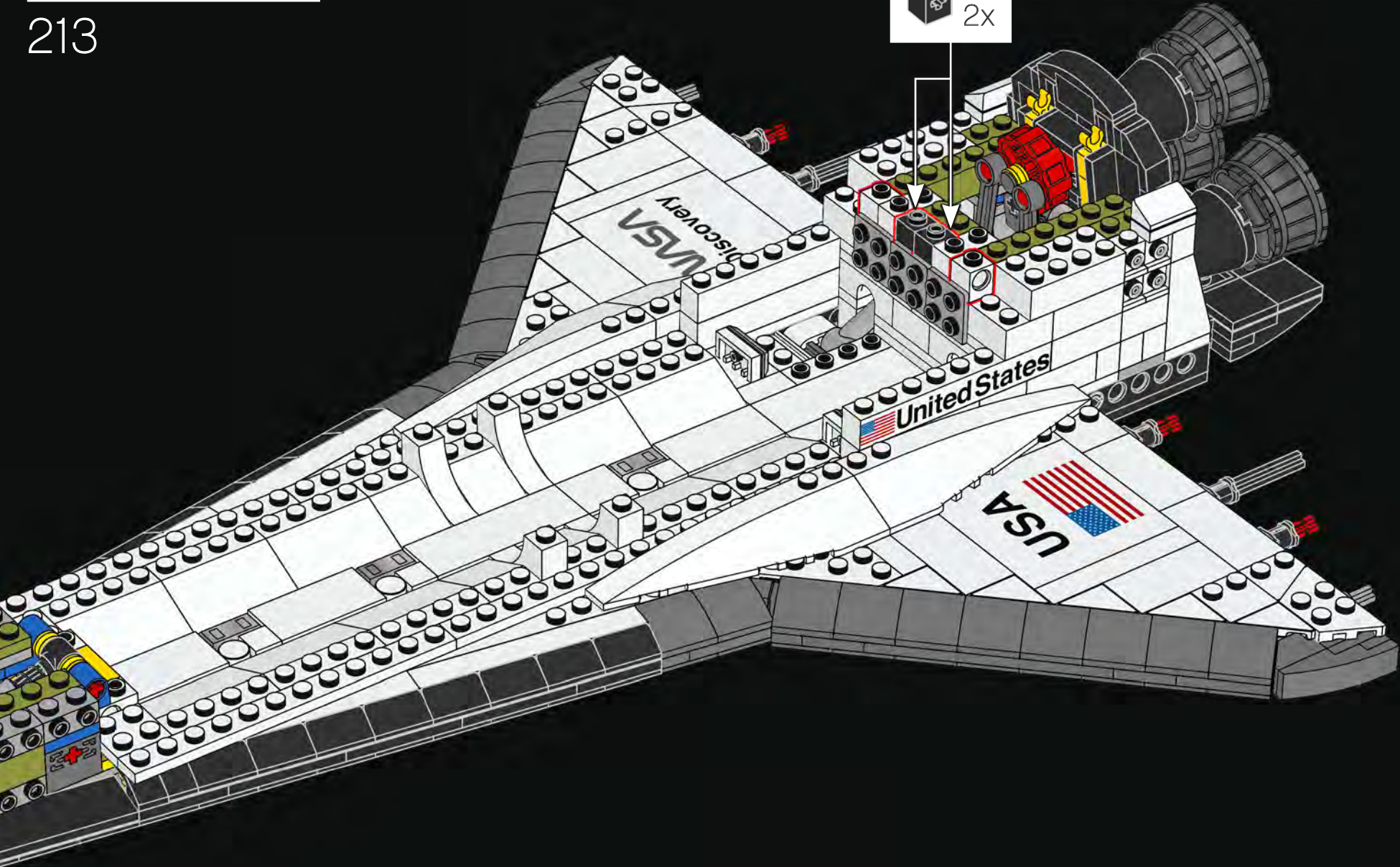


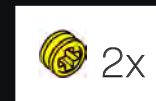
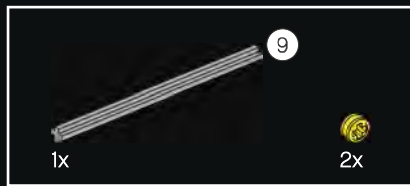

2x


2x

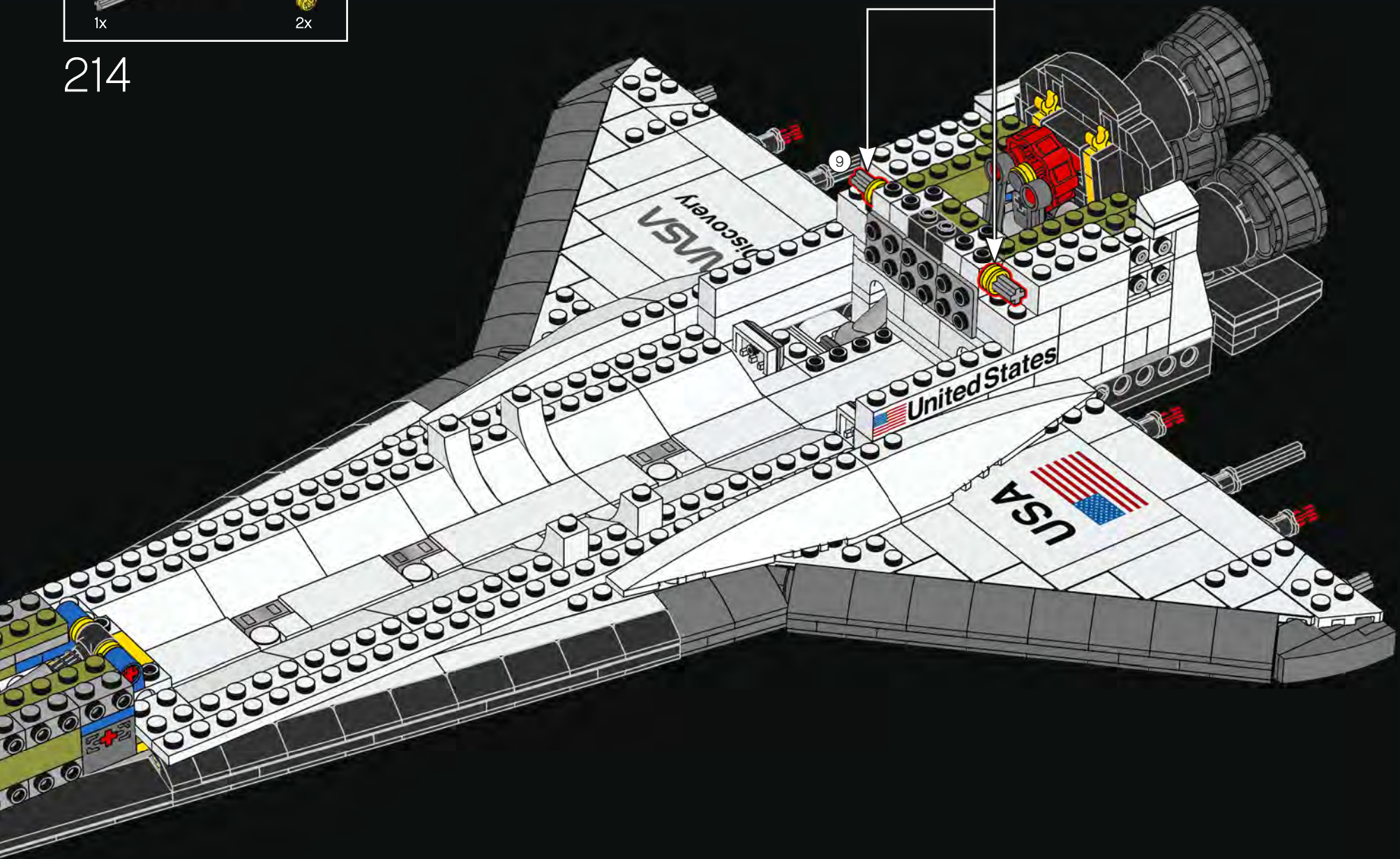
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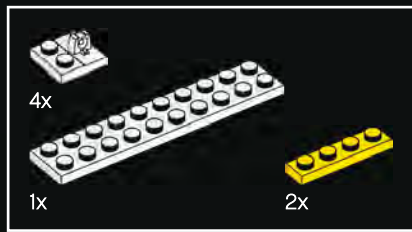

2x



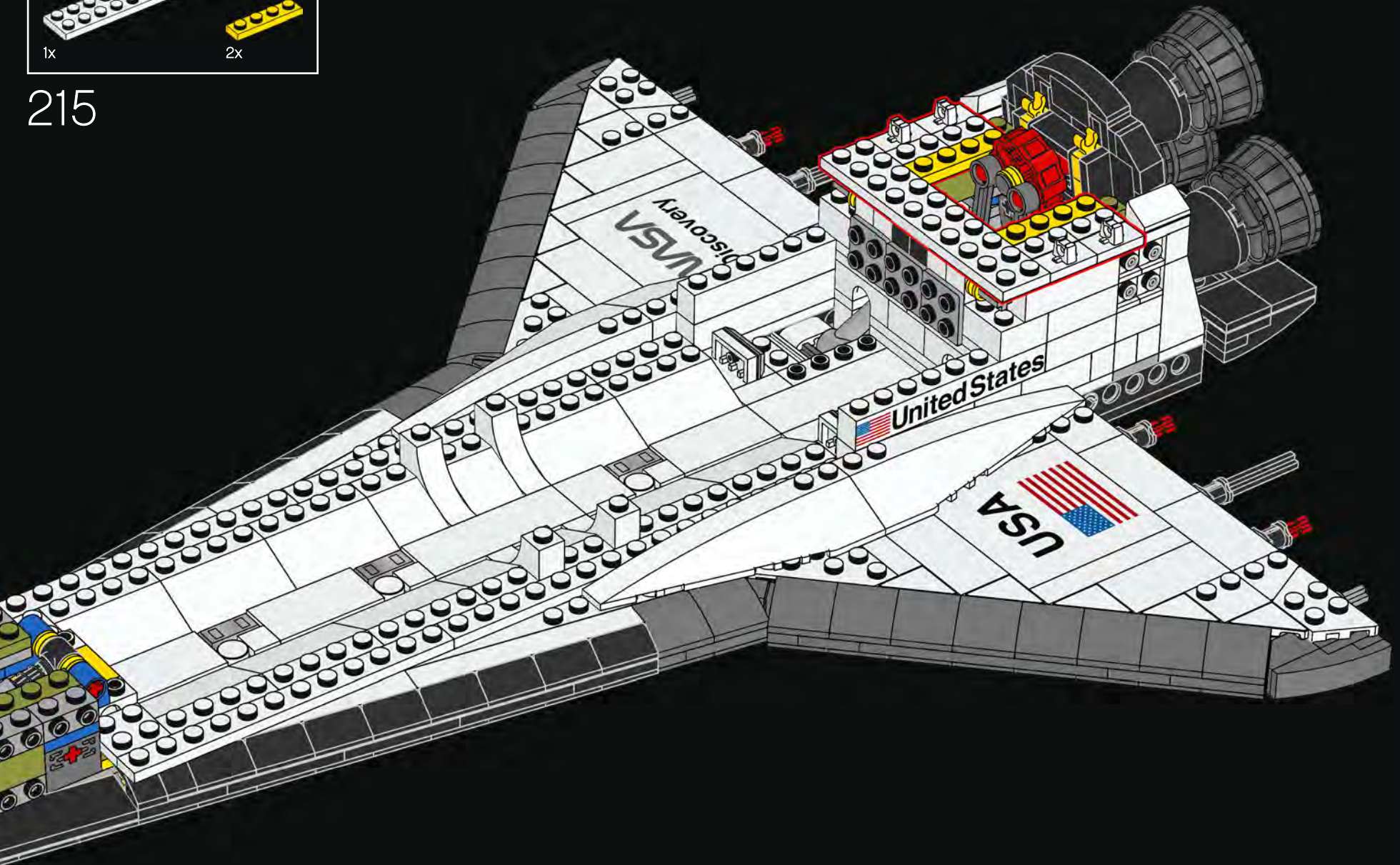


214



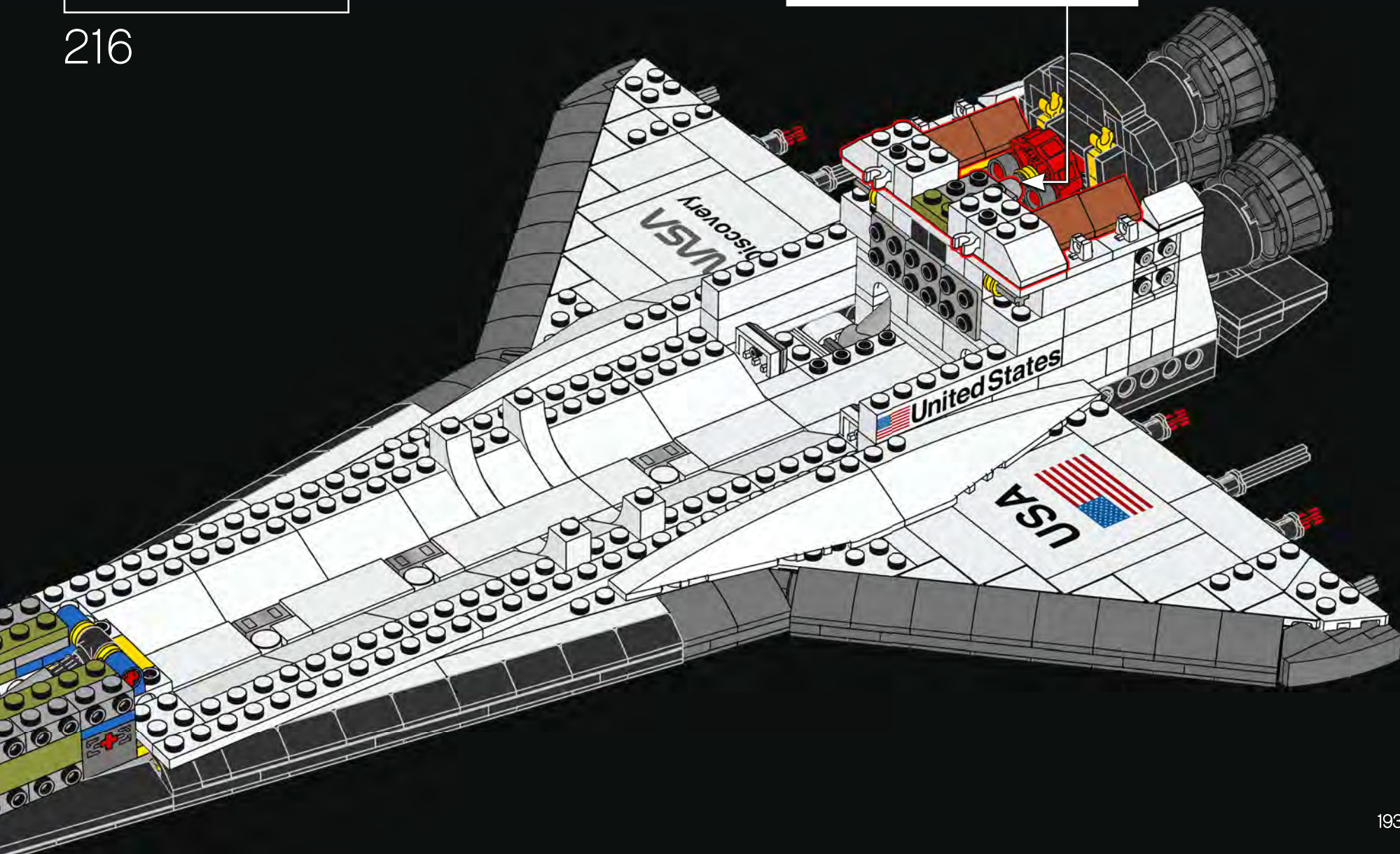
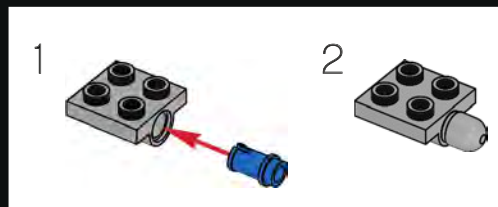


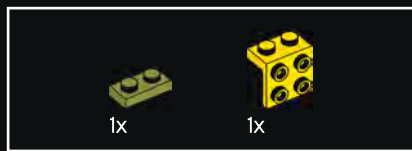
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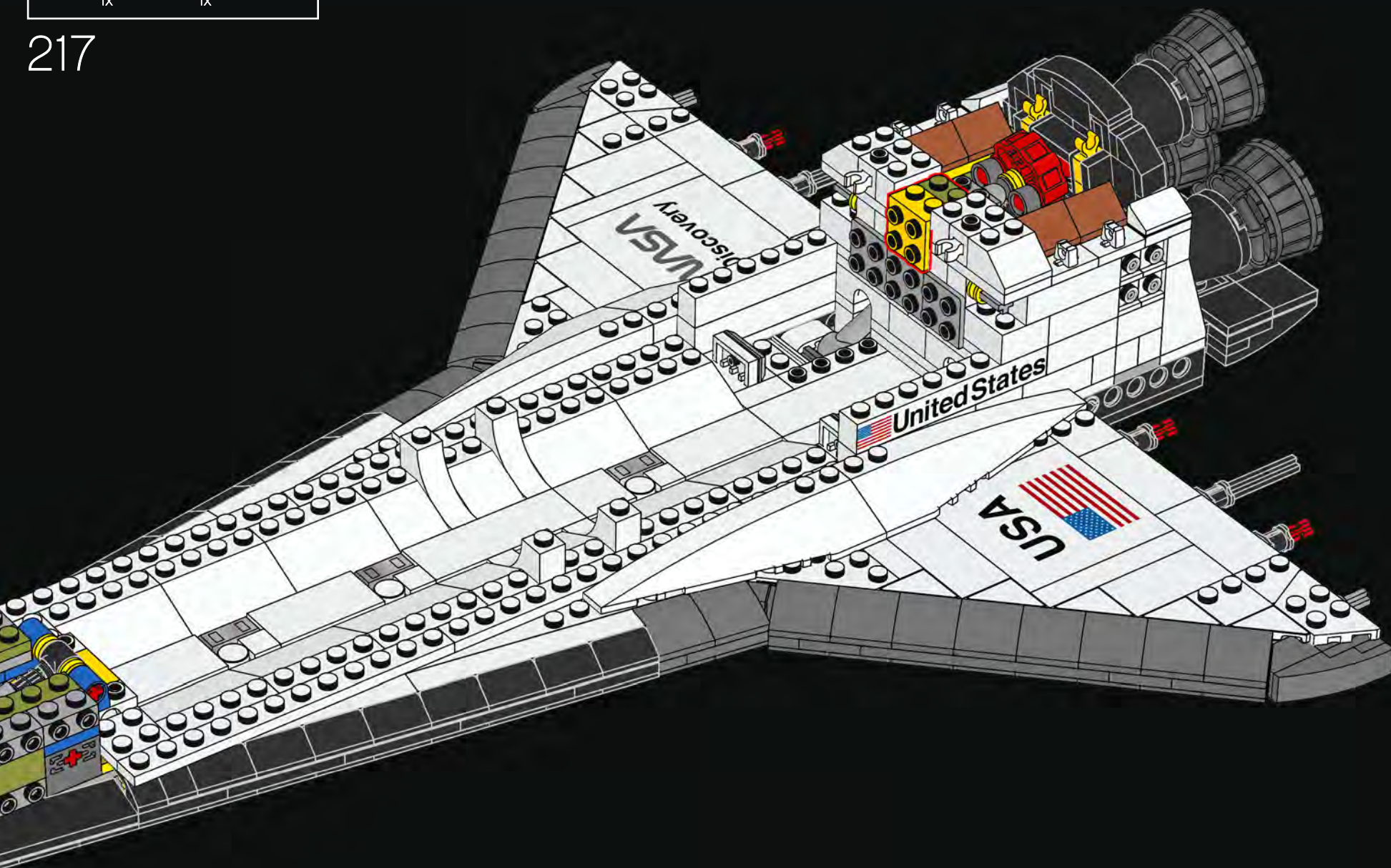


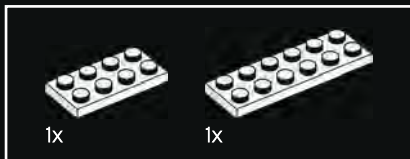
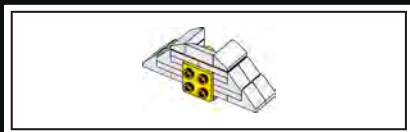
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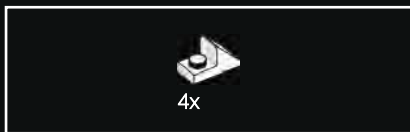
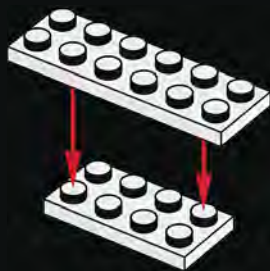


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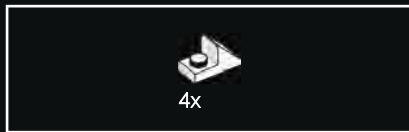




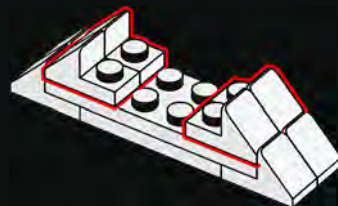
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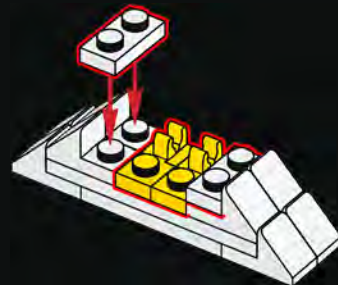
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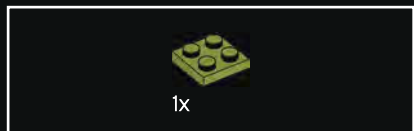


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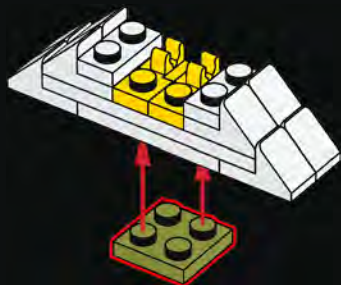


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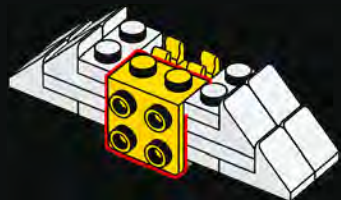




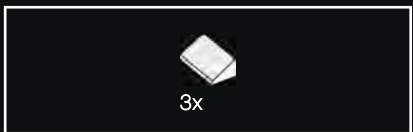
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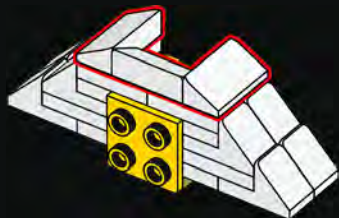
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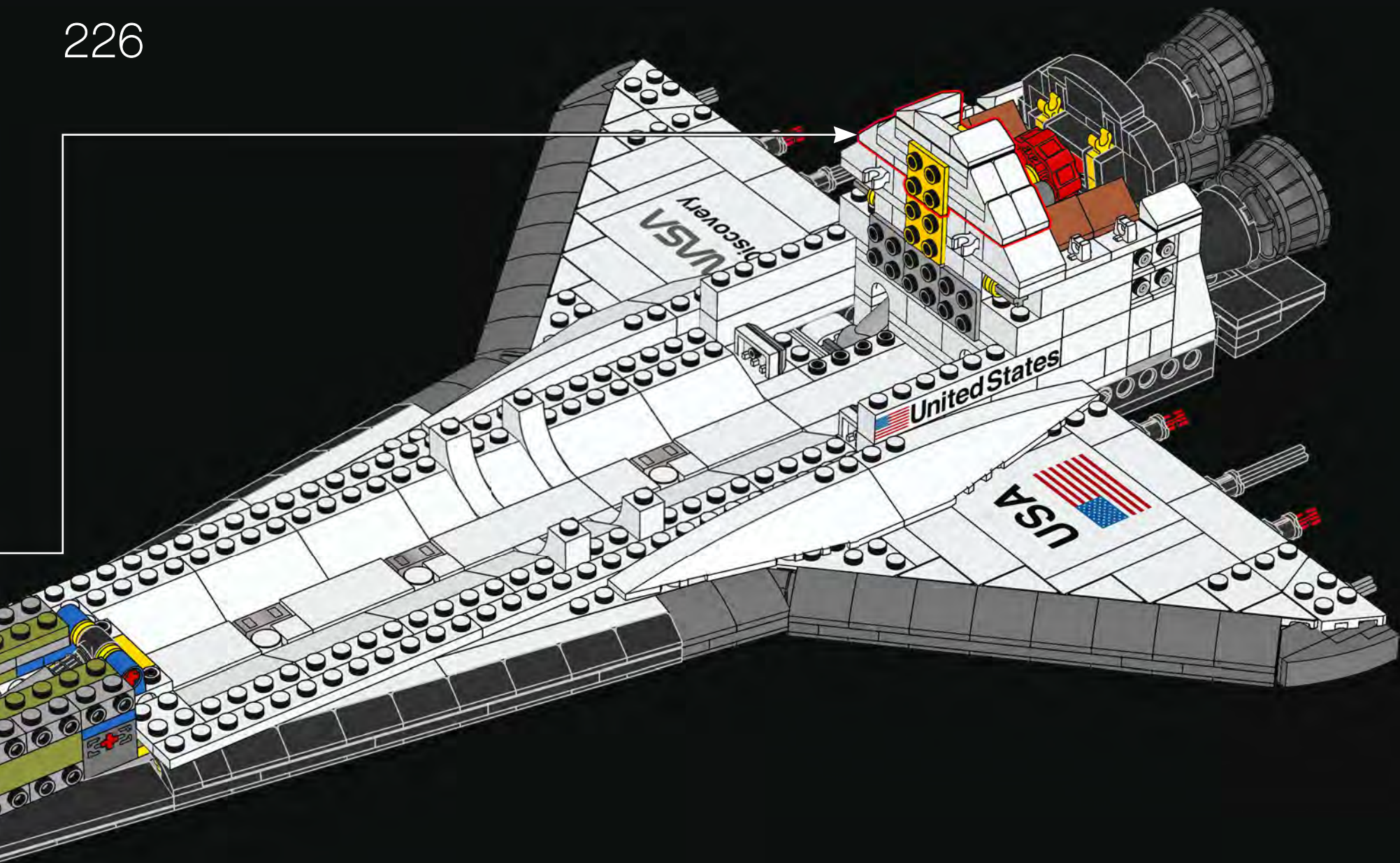
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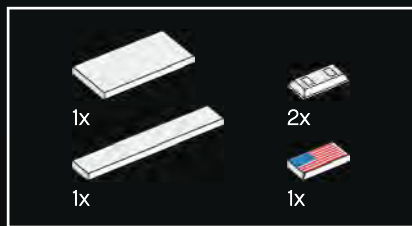


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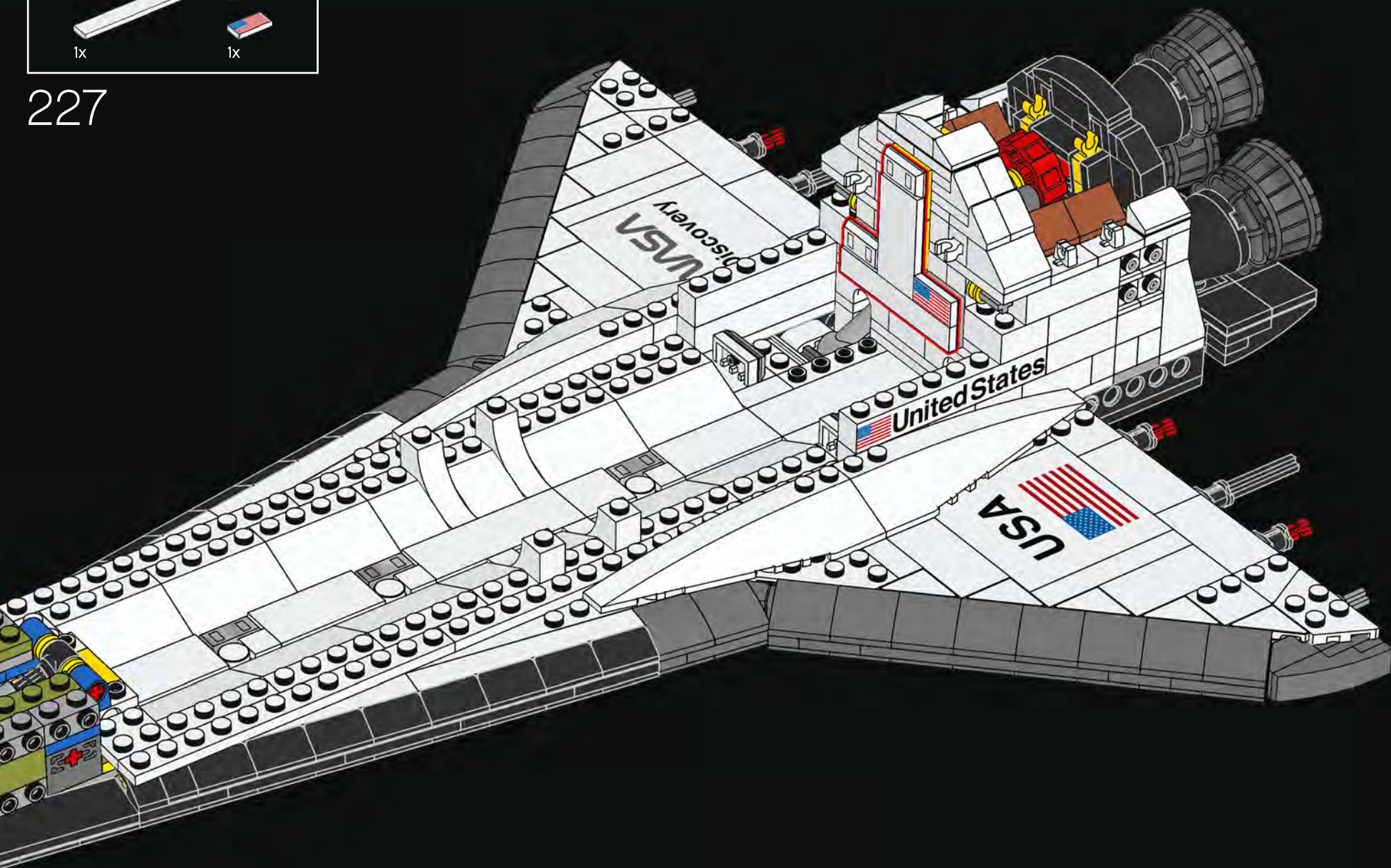


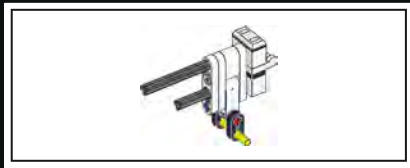
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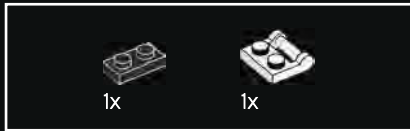


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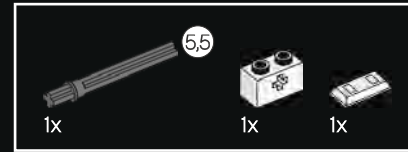




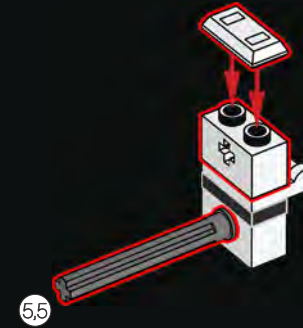
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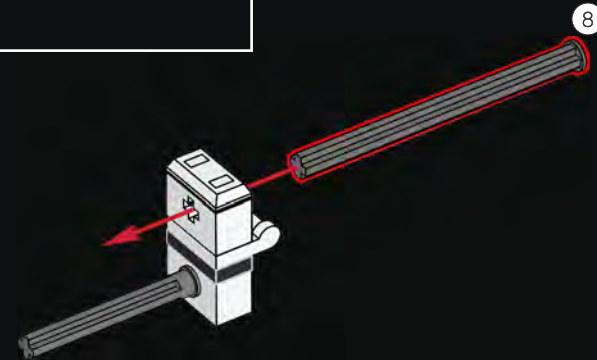
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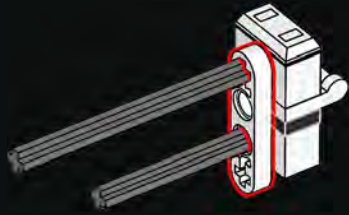


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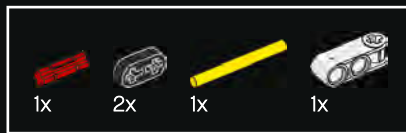
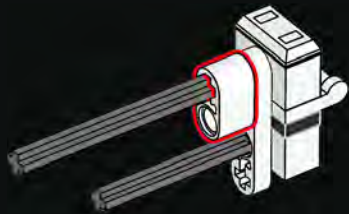




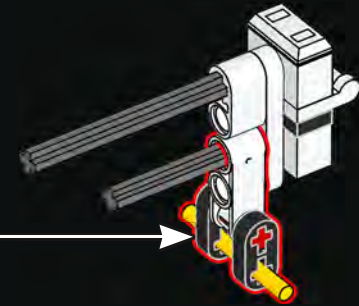
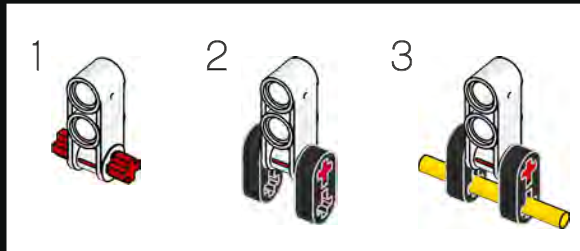
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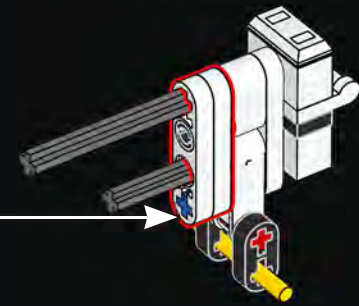
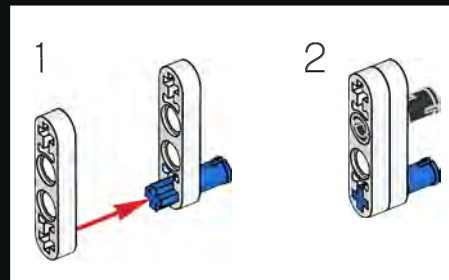
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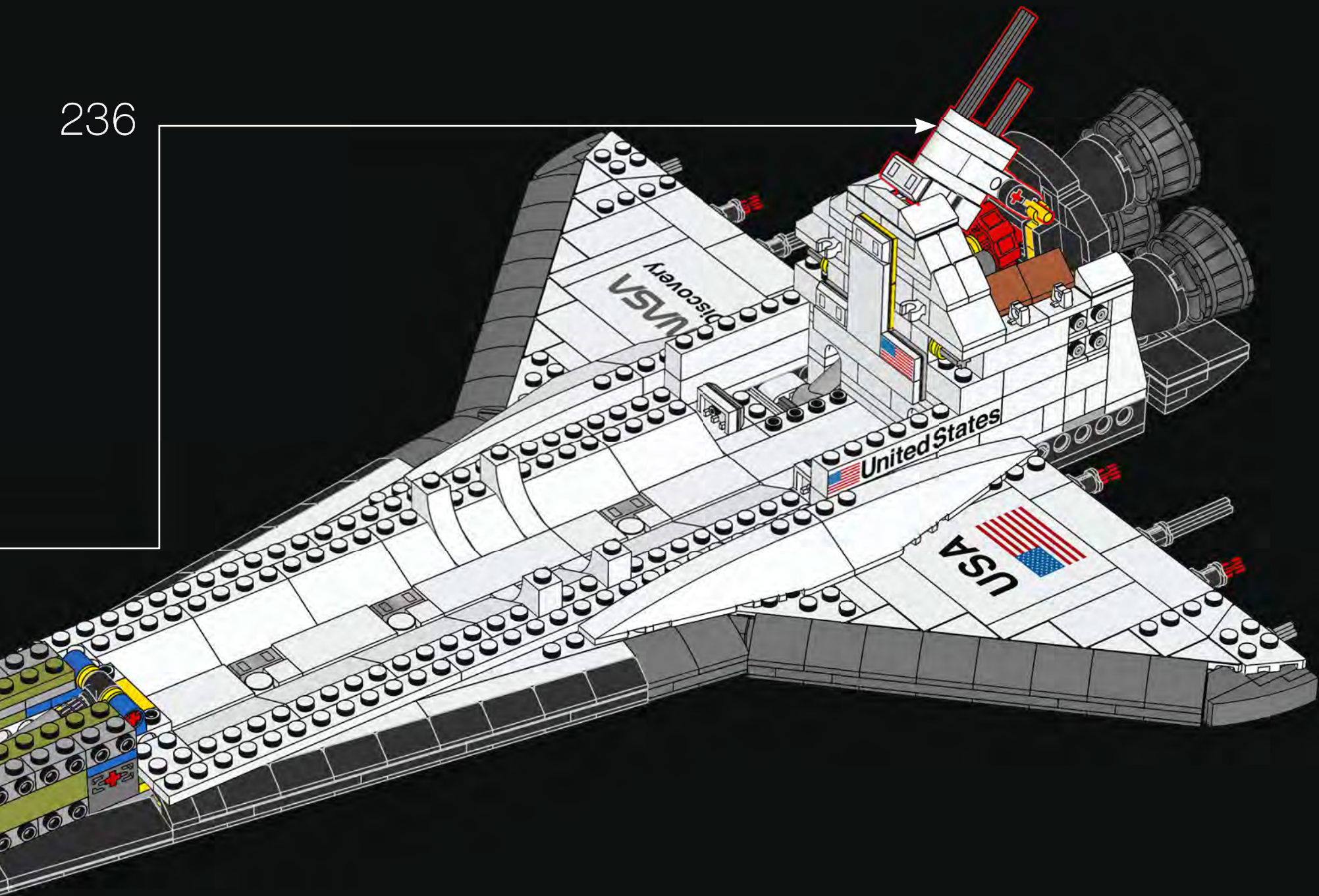
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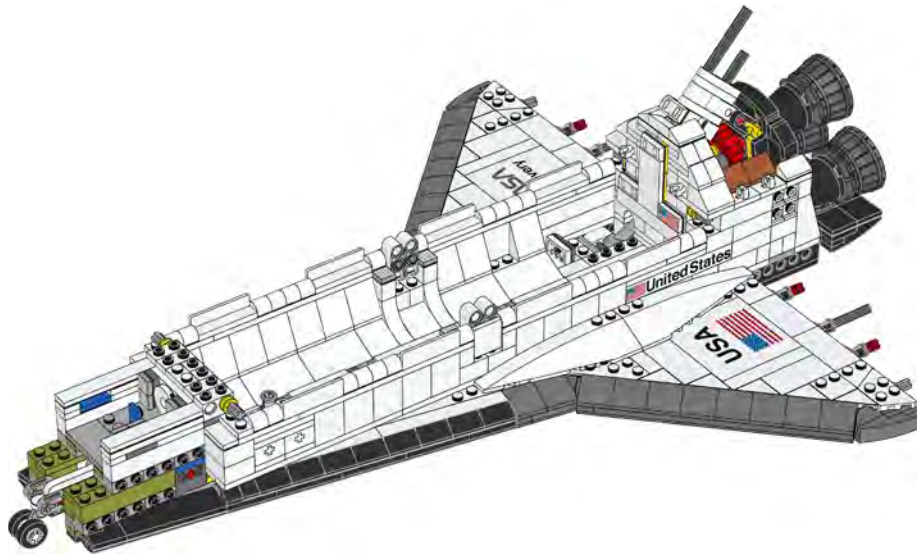
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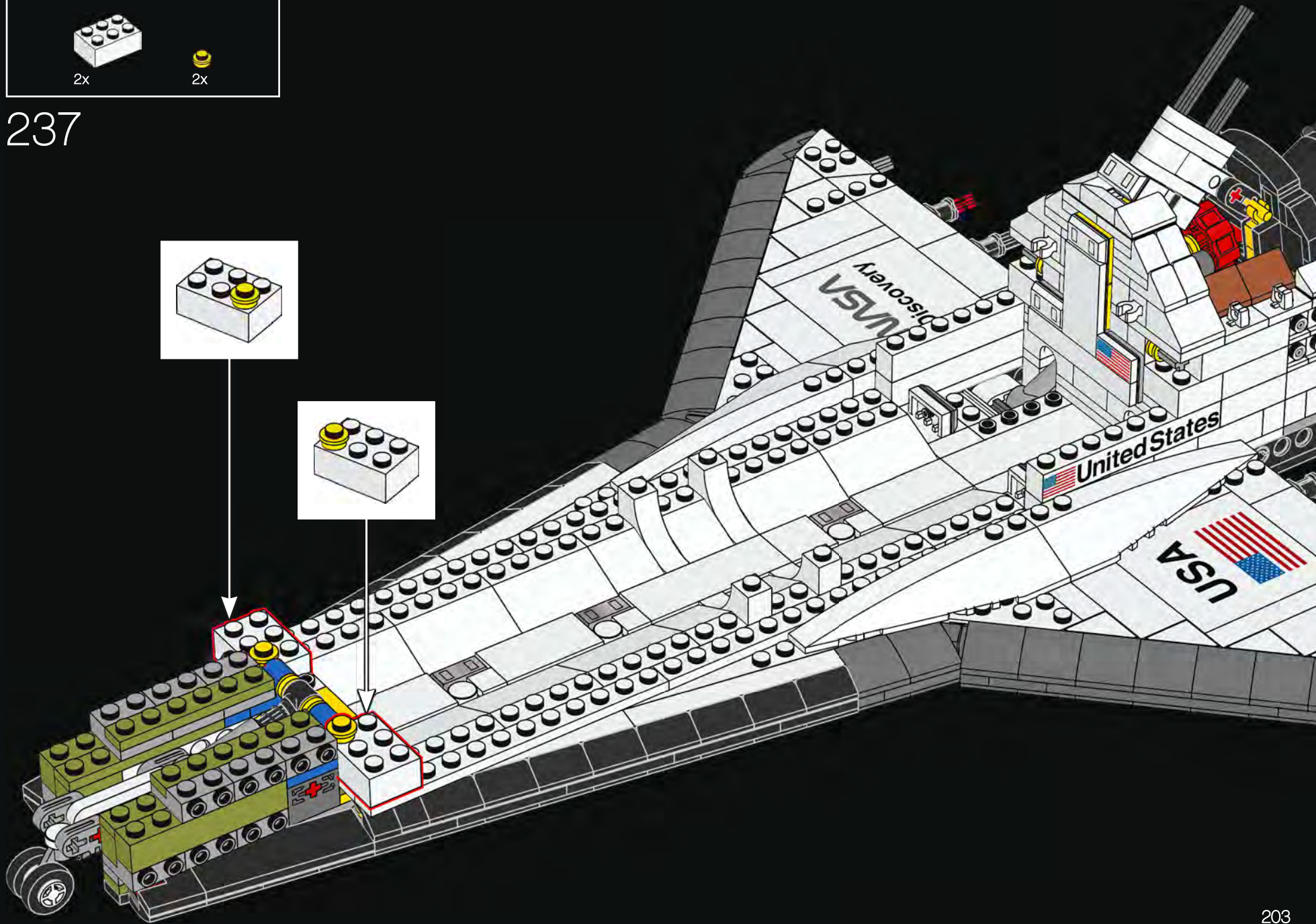
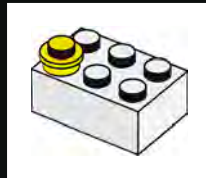


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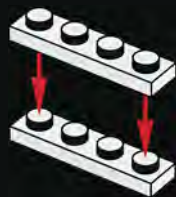


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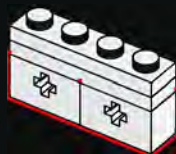




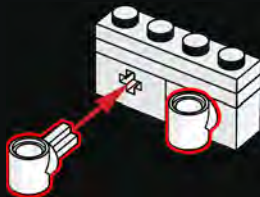
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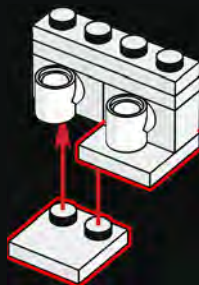
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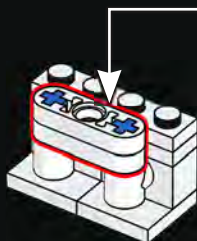
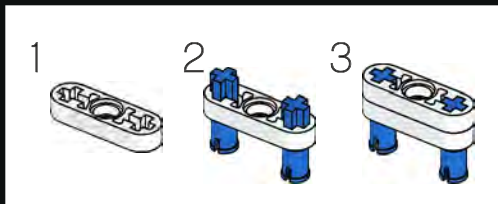
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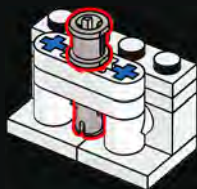
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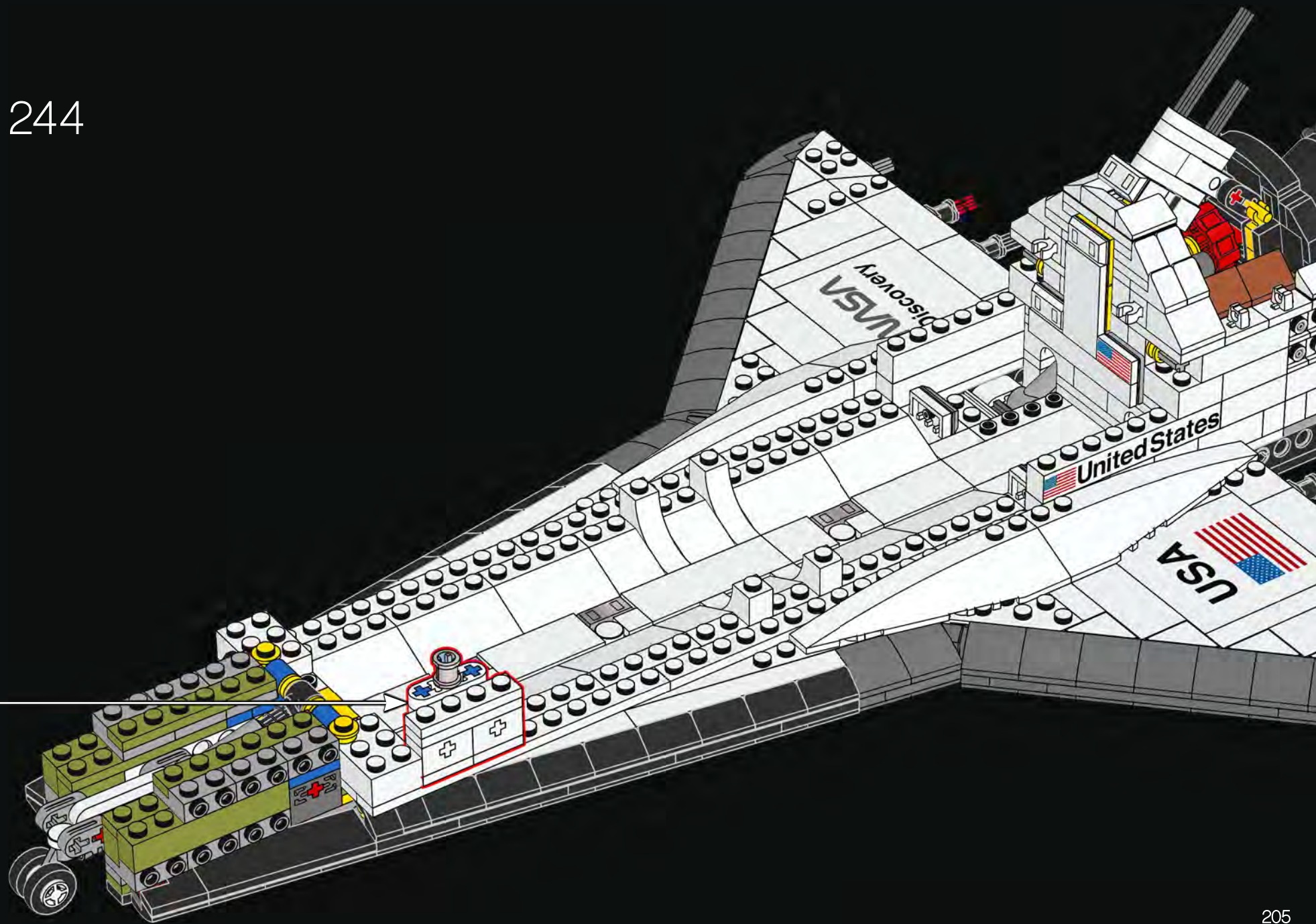


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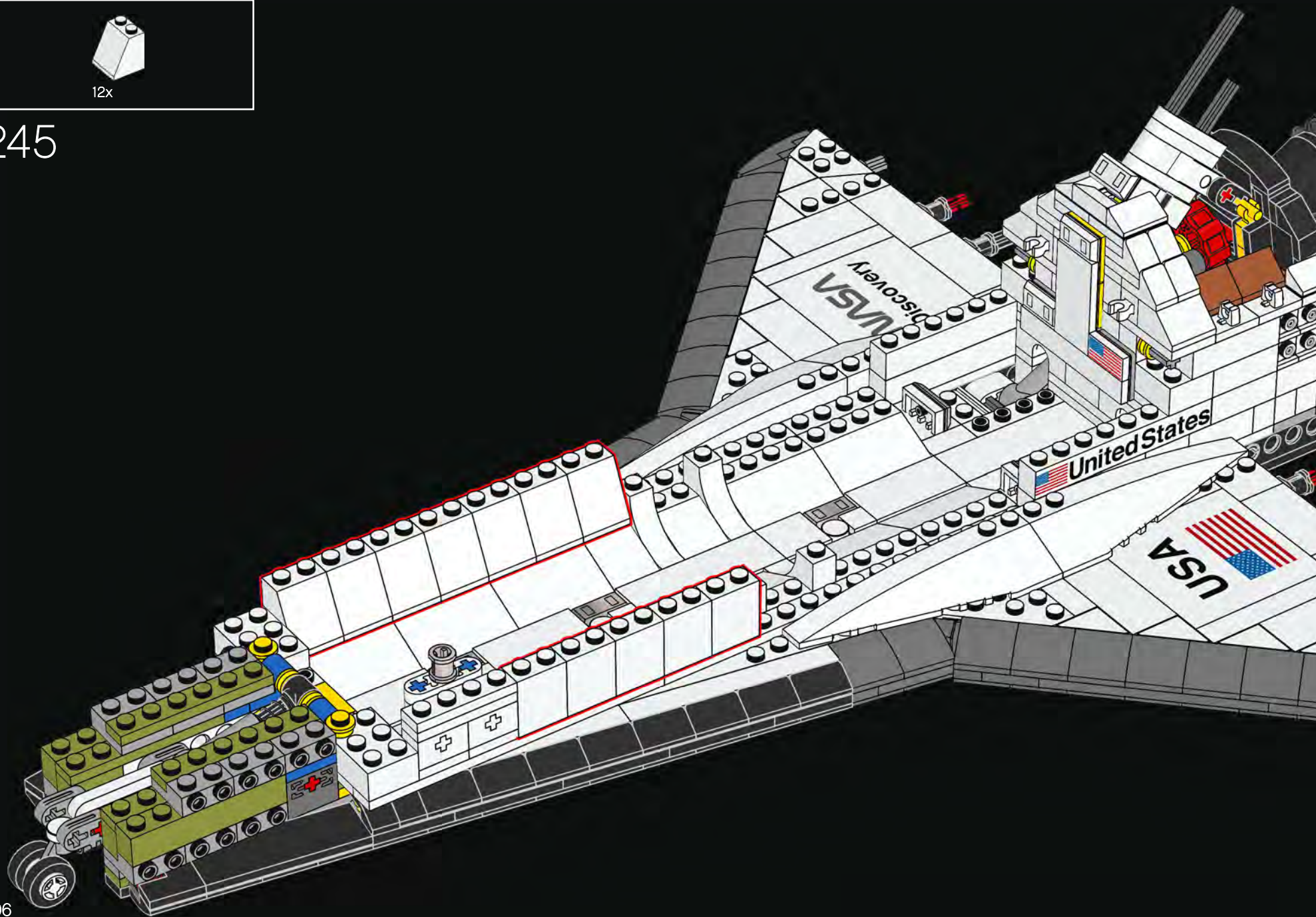
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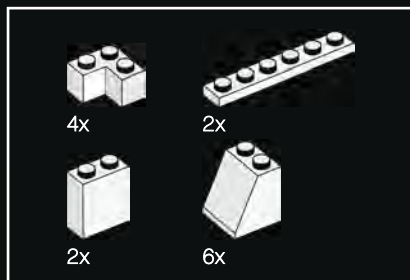




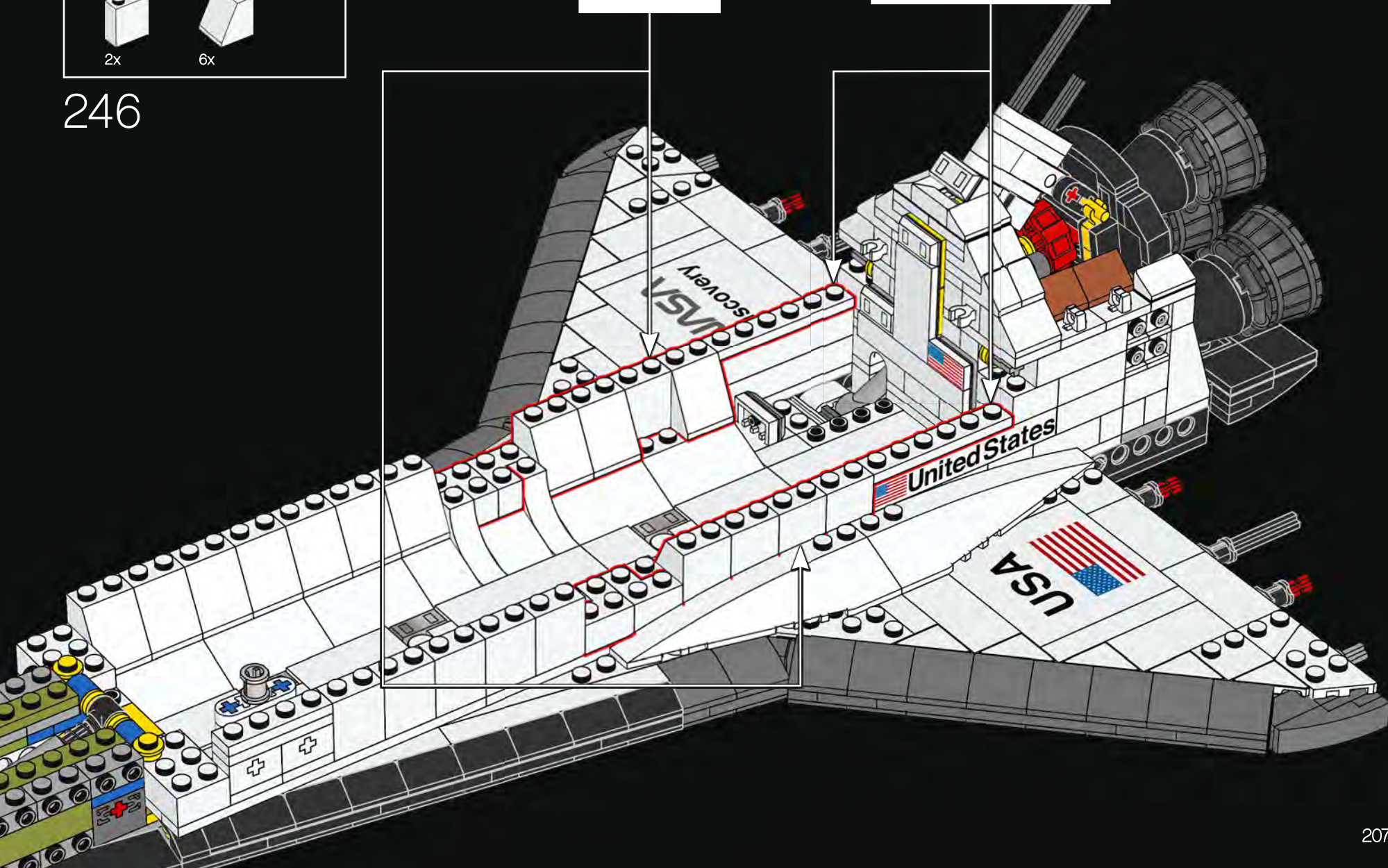
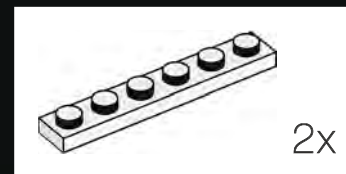
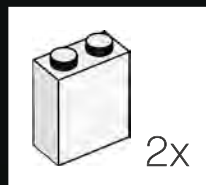


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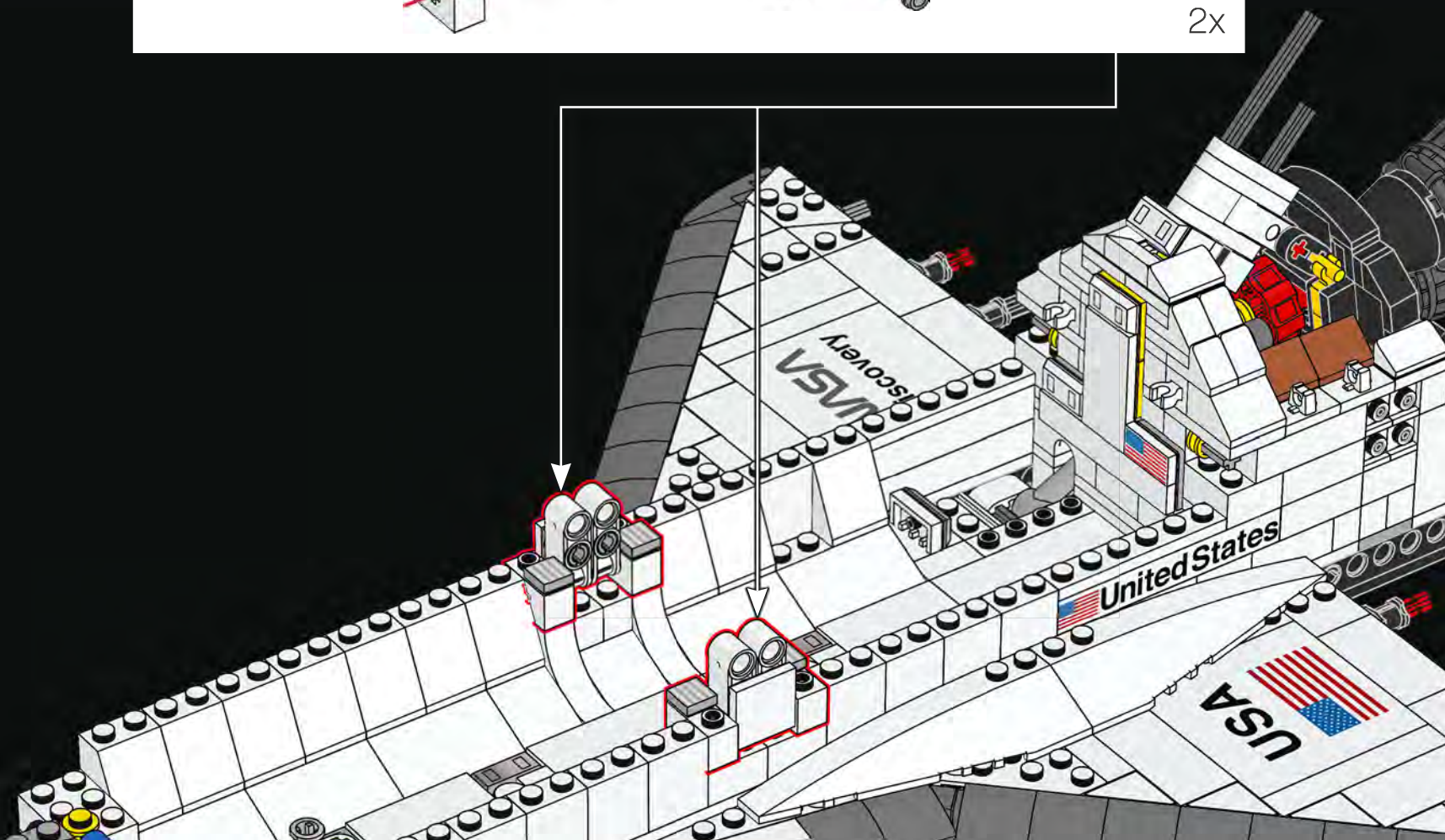
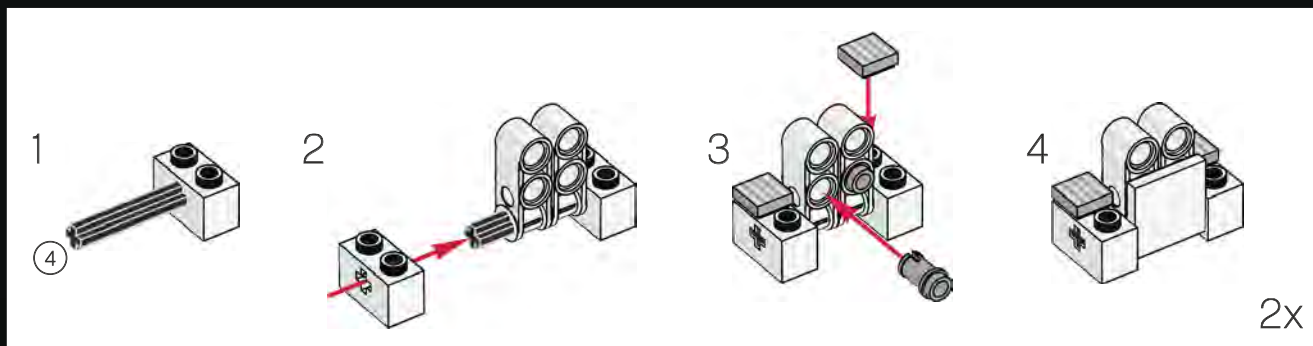


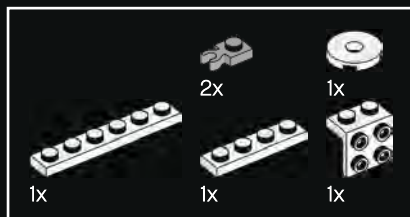
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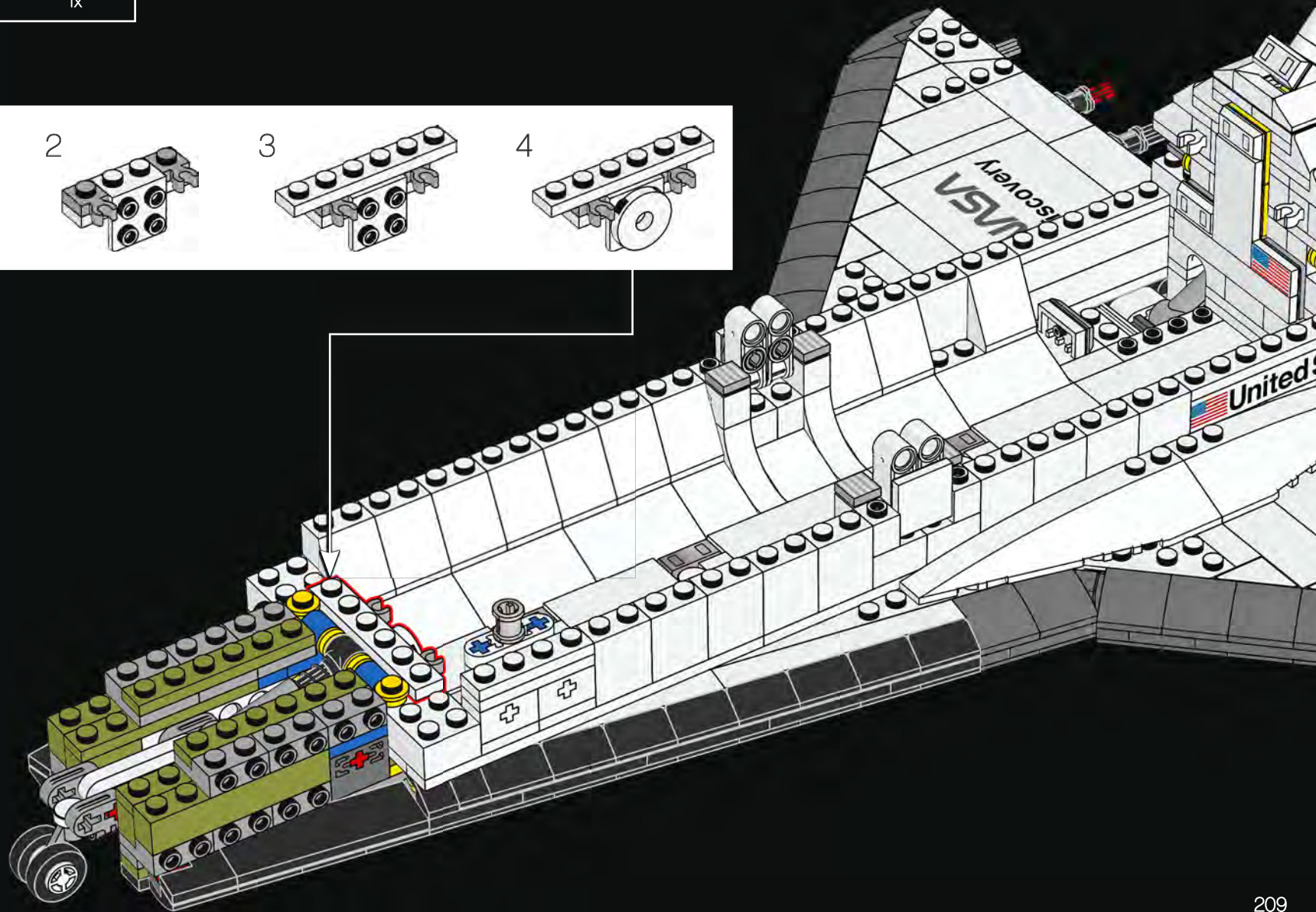
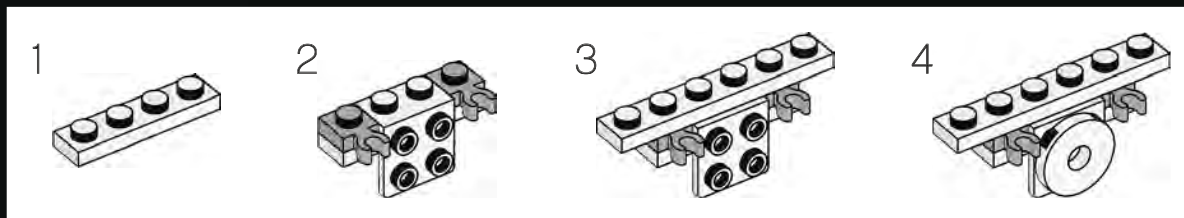


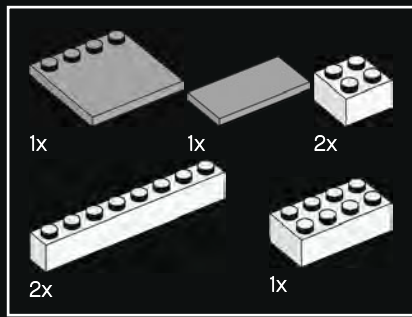
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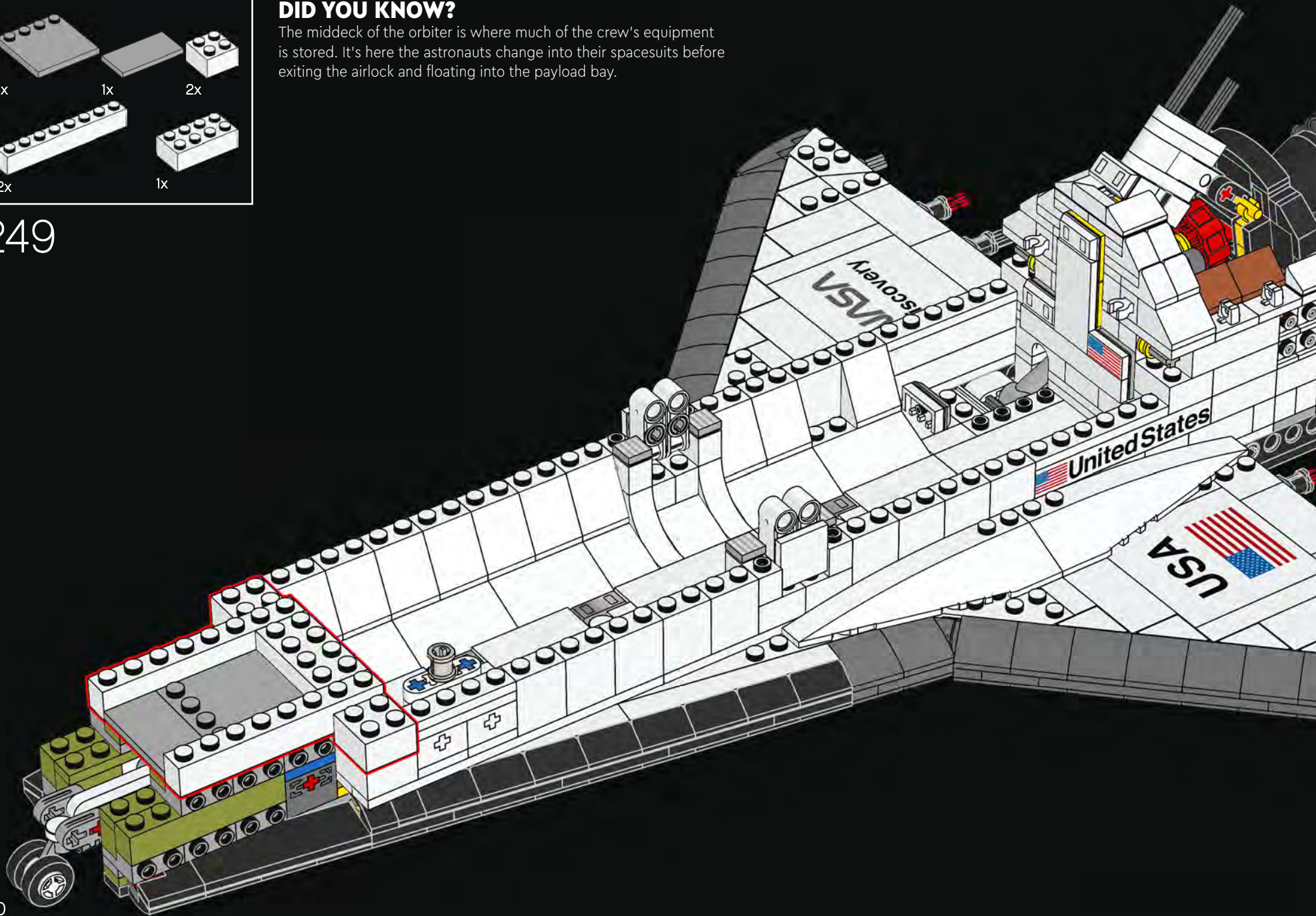


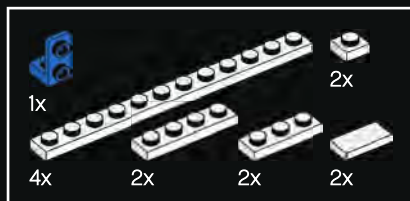


DID YOU KNOW?

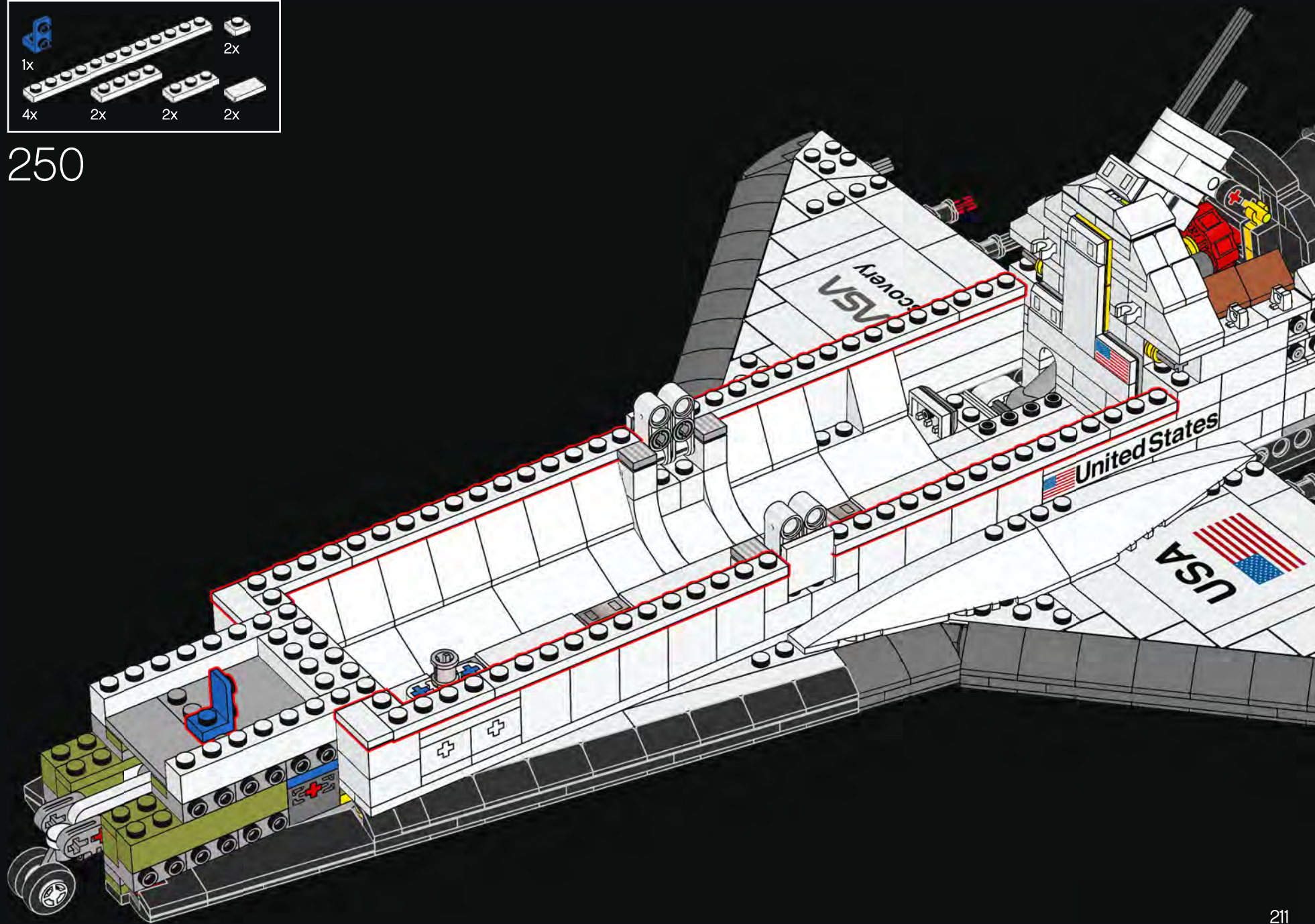
The middeck of the orbiter is where much of the crew's equipment is stored. It's here the astronauts change into their spacesuits before exiting the airlock and floating into the payload bay.

249



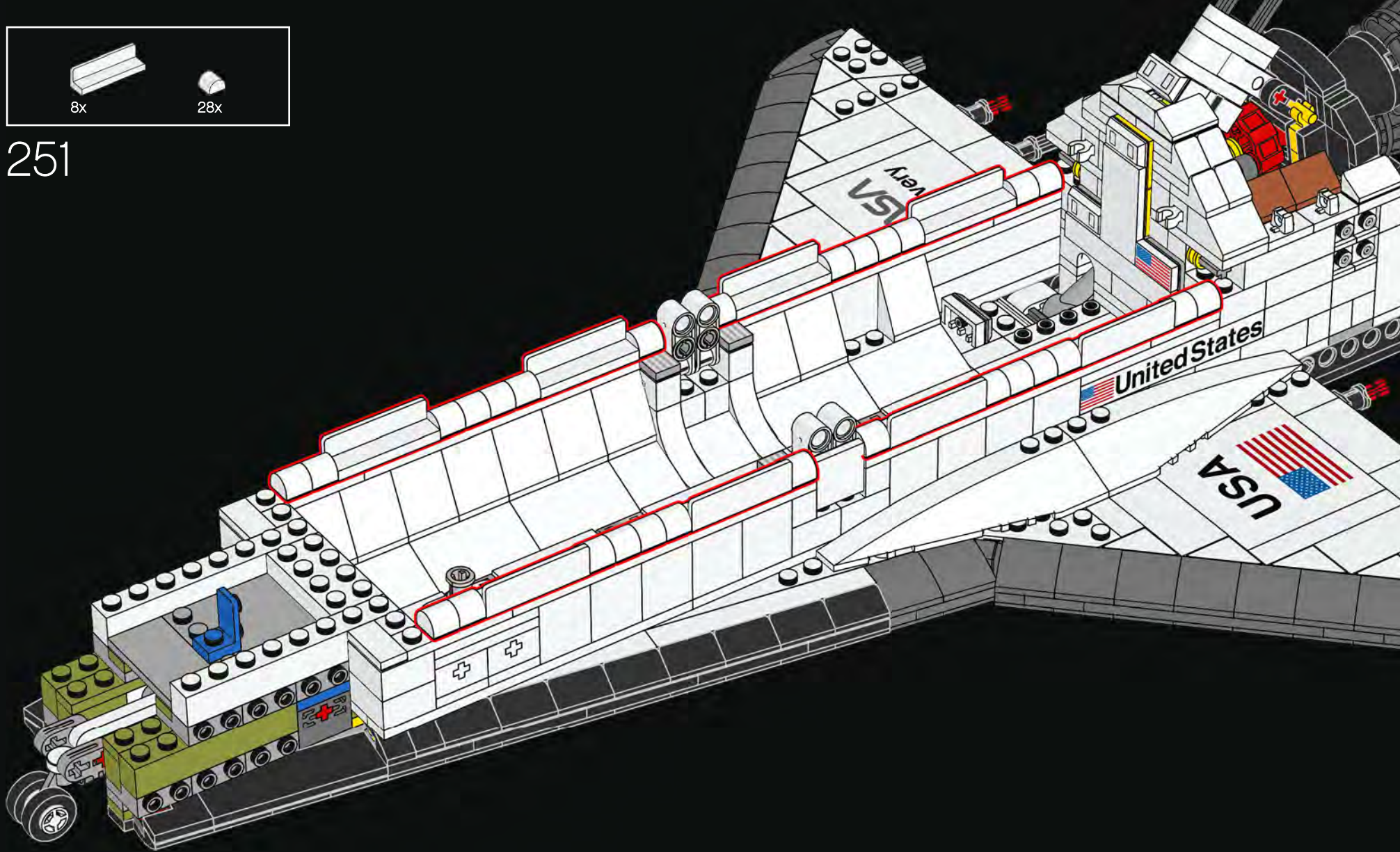


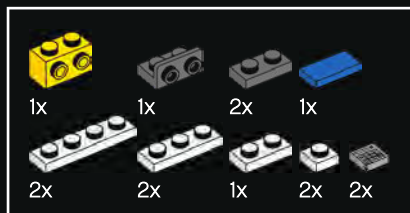
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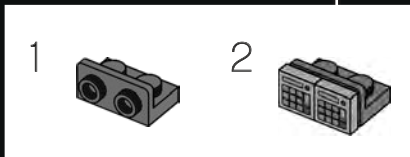
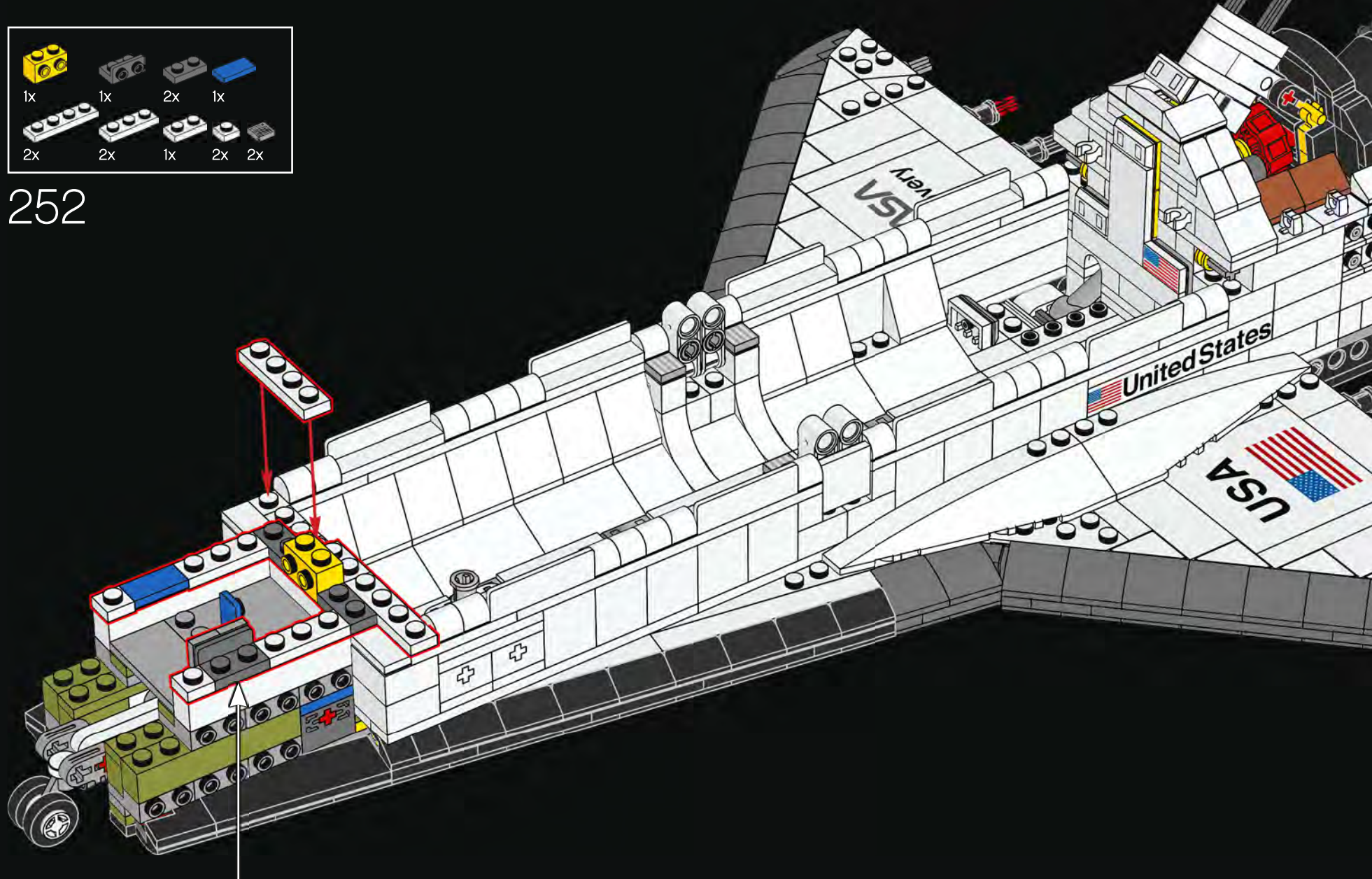


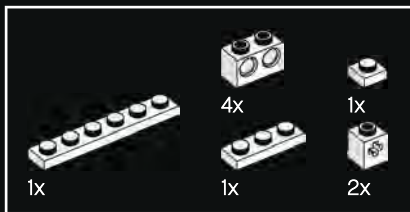
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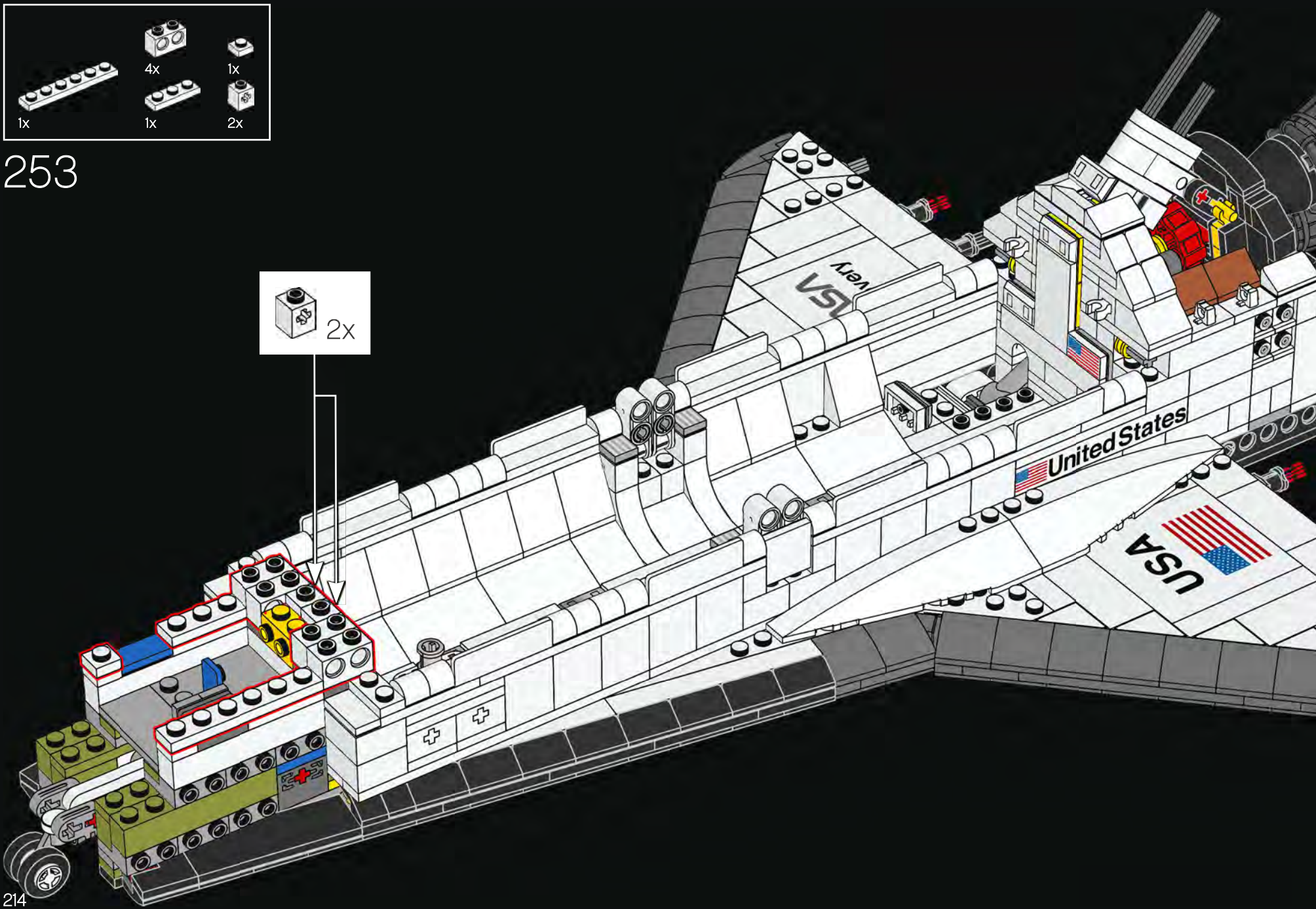


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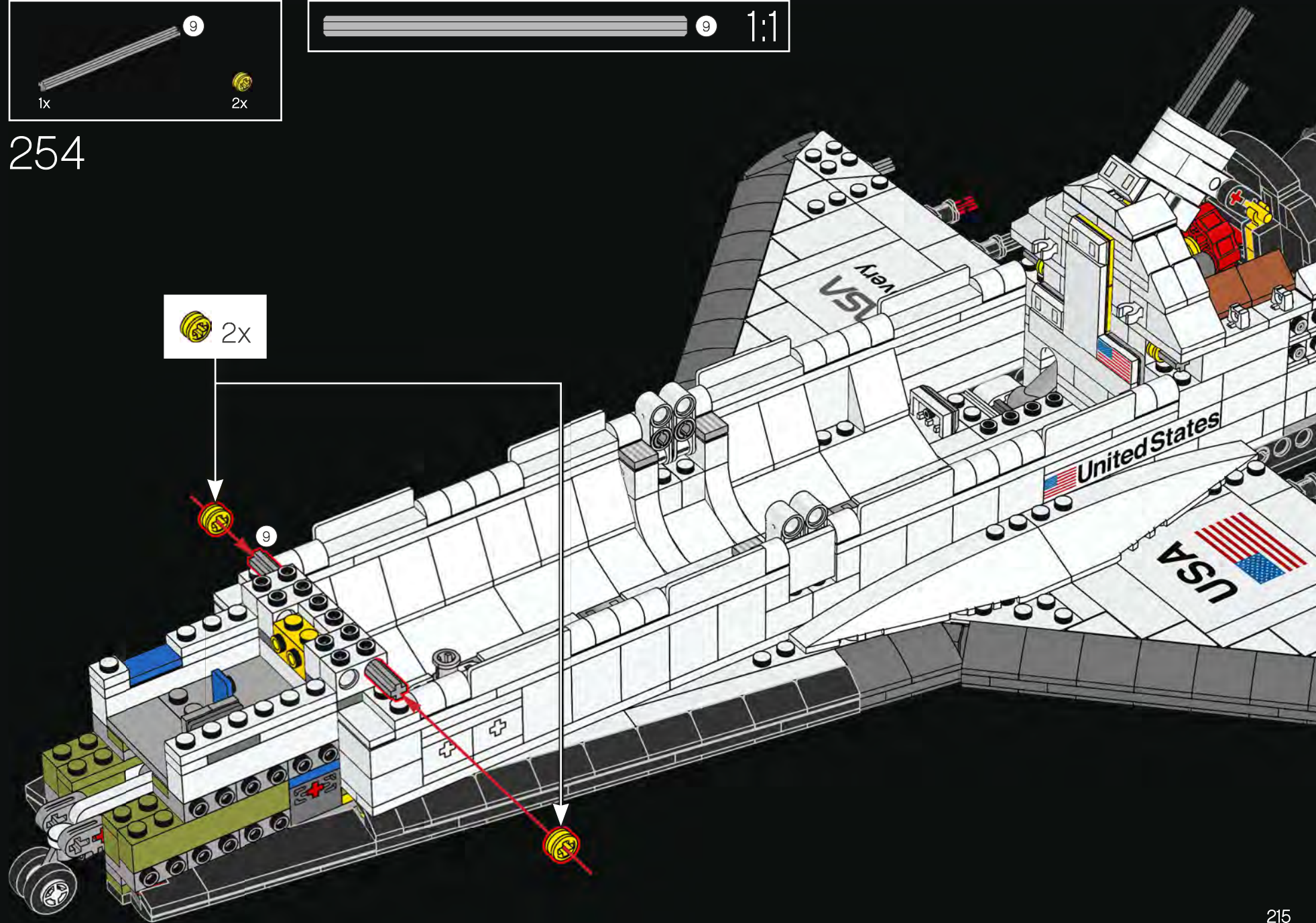


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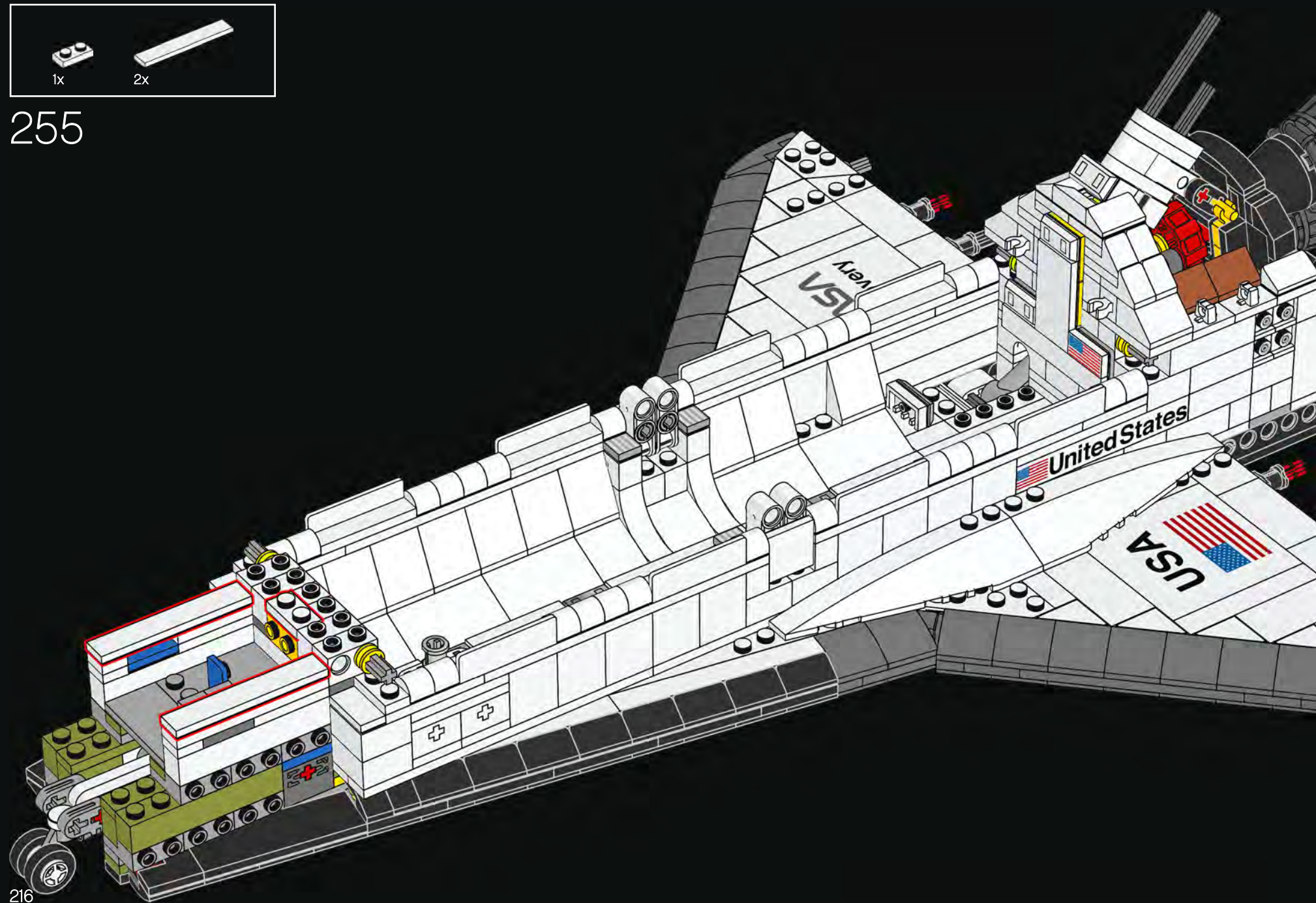


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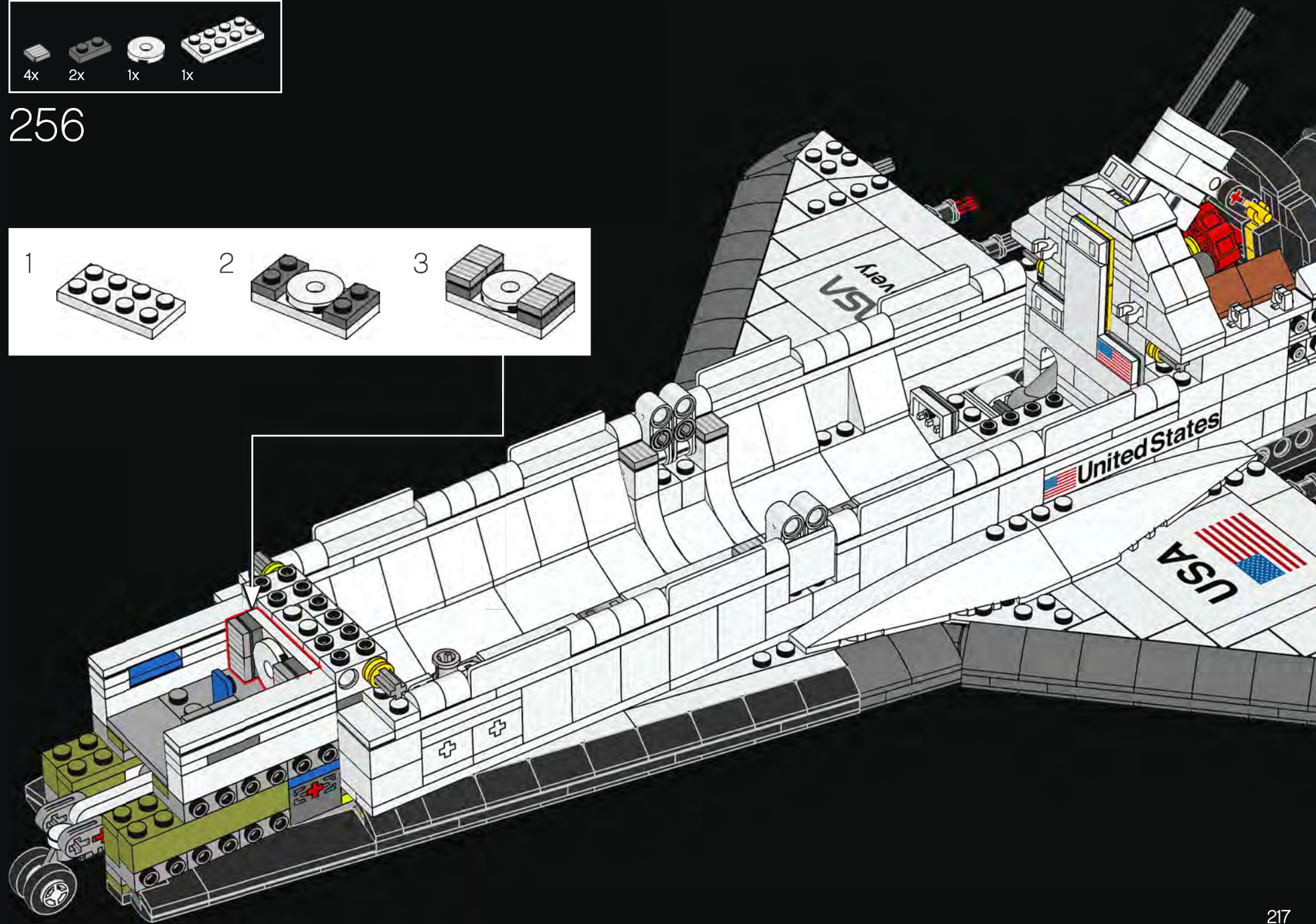
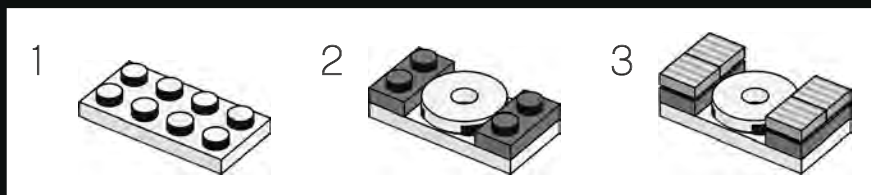


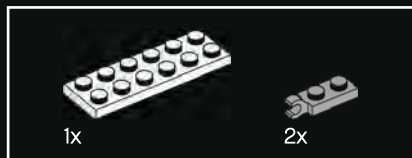
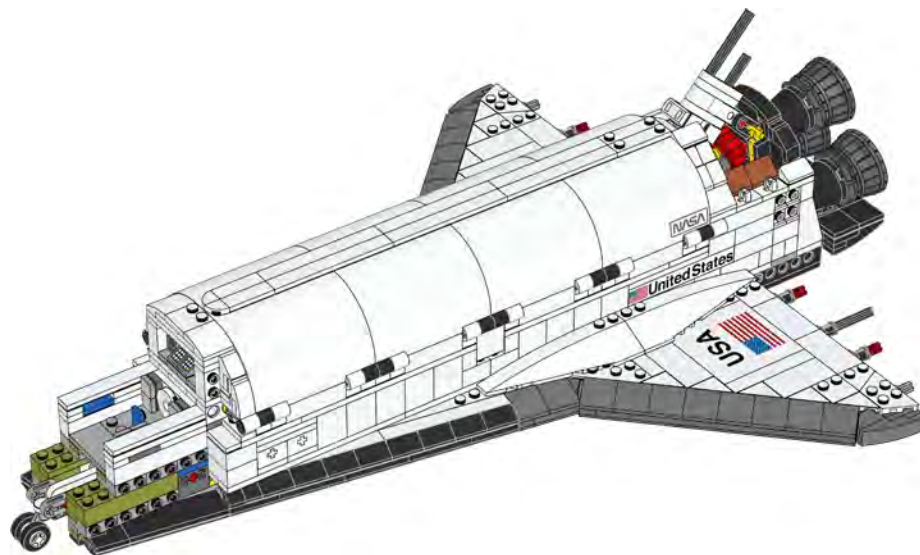
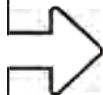
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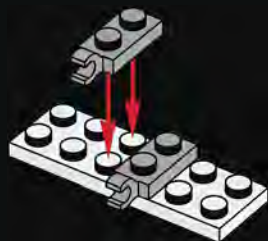


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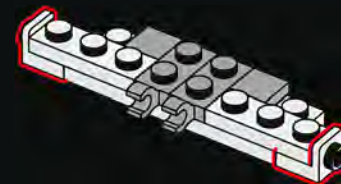
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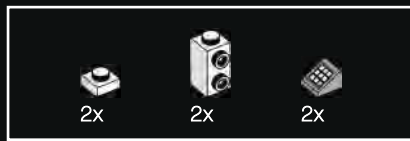


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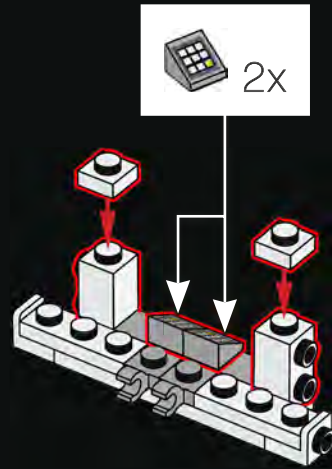


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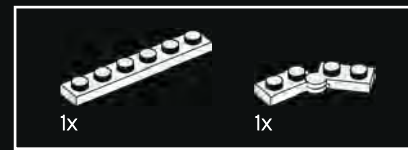
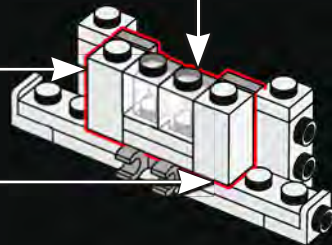
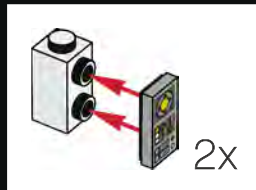
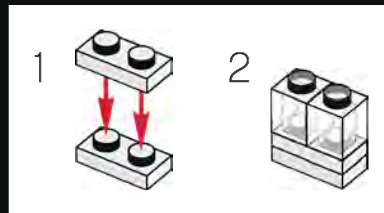




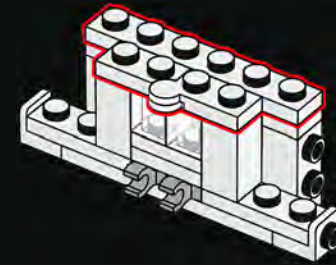
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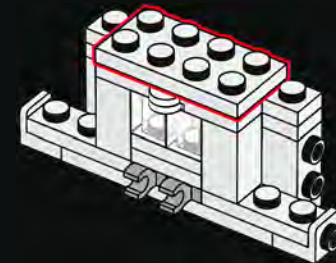
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262

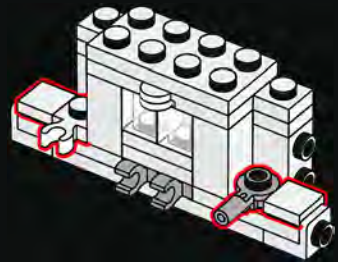


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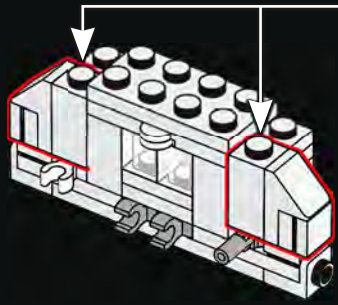
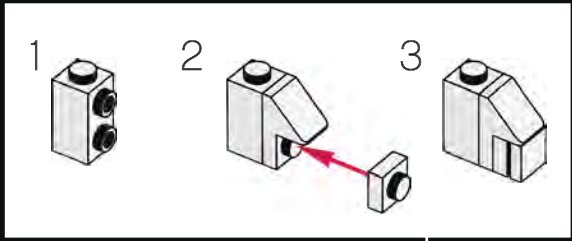




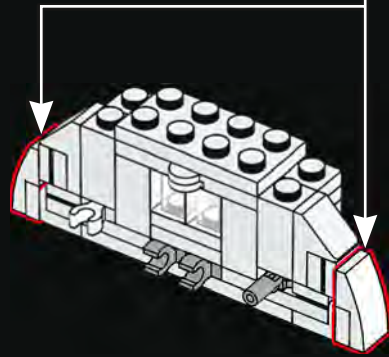
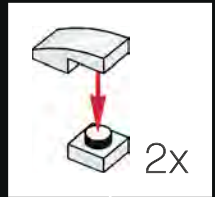
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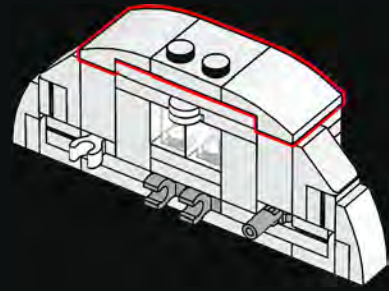
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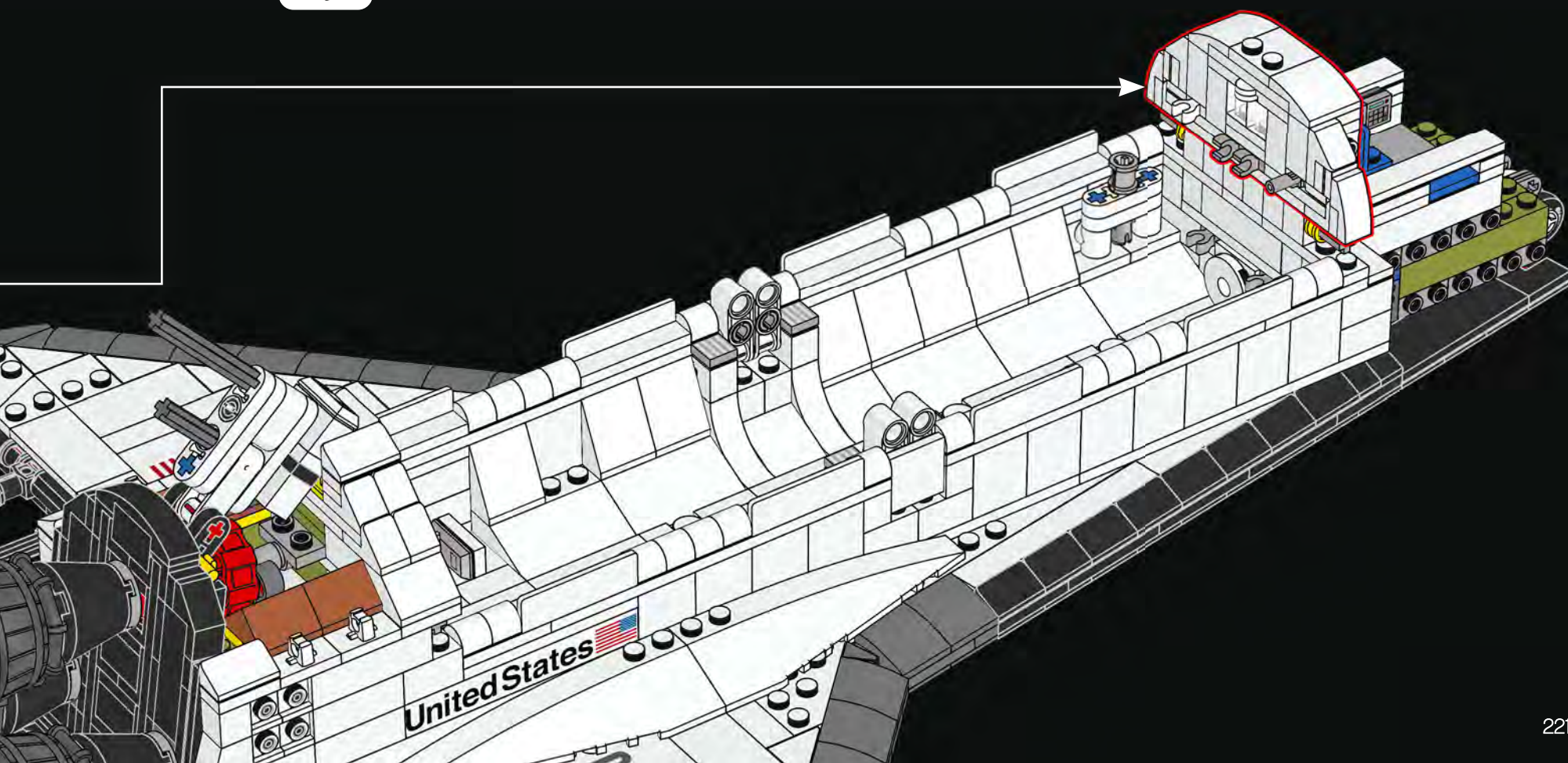
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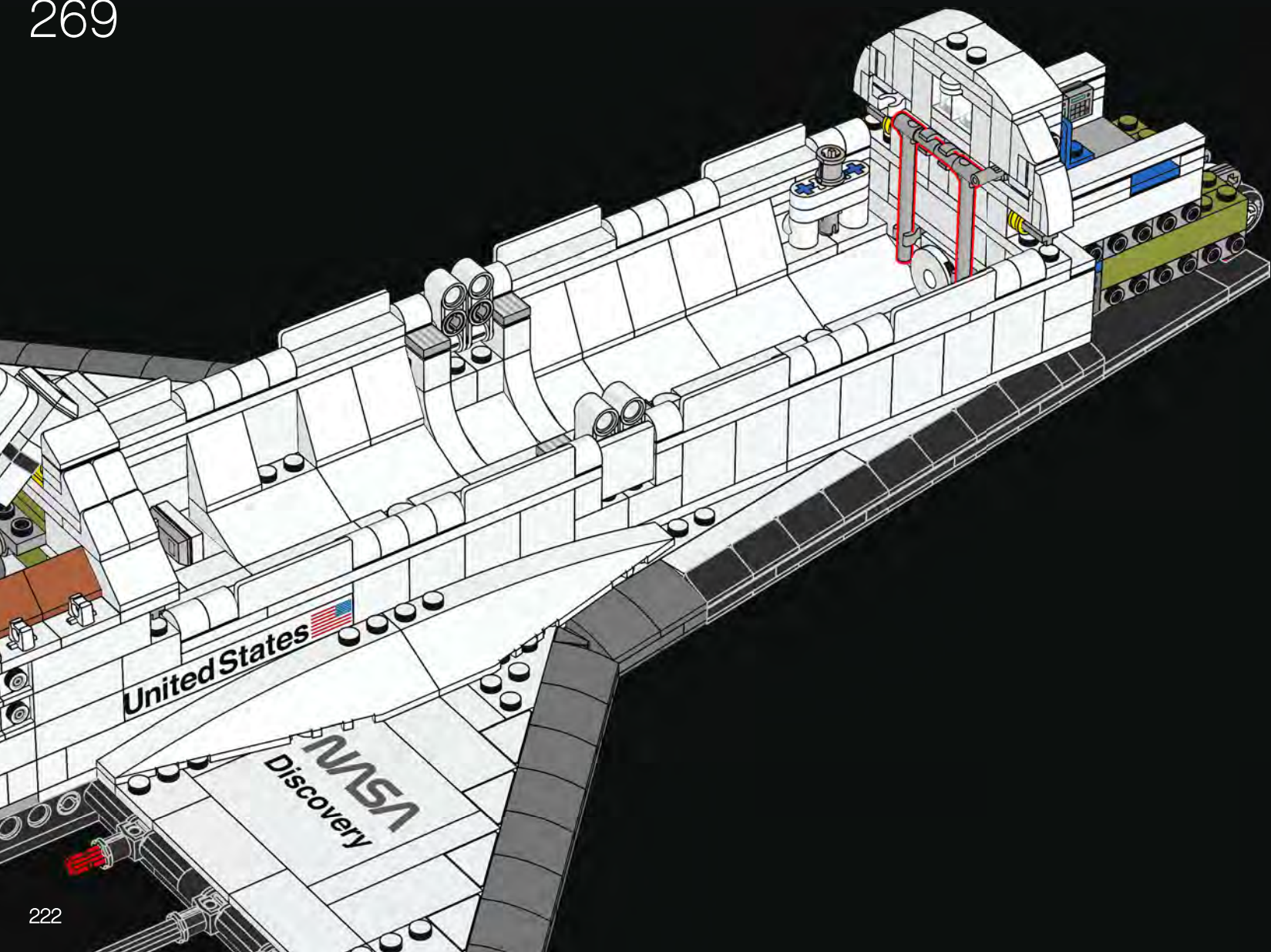


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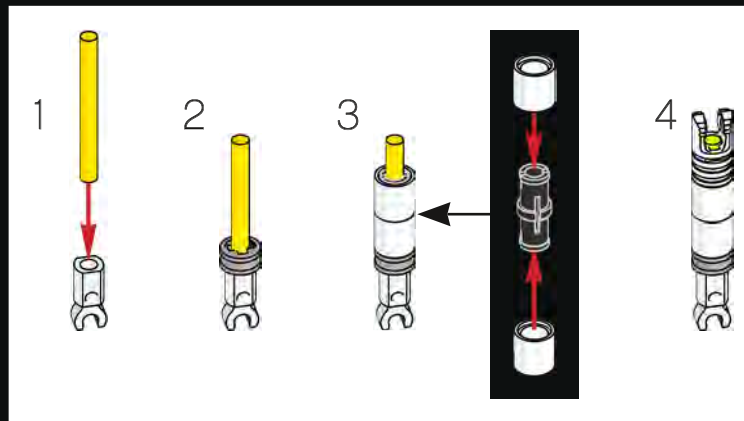


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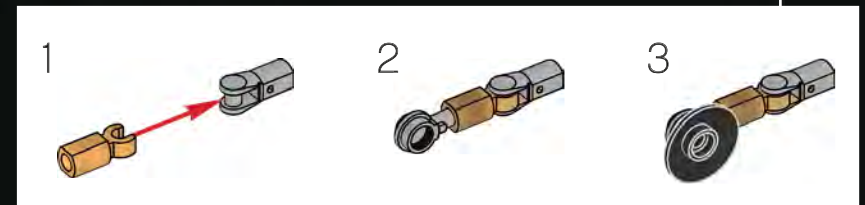
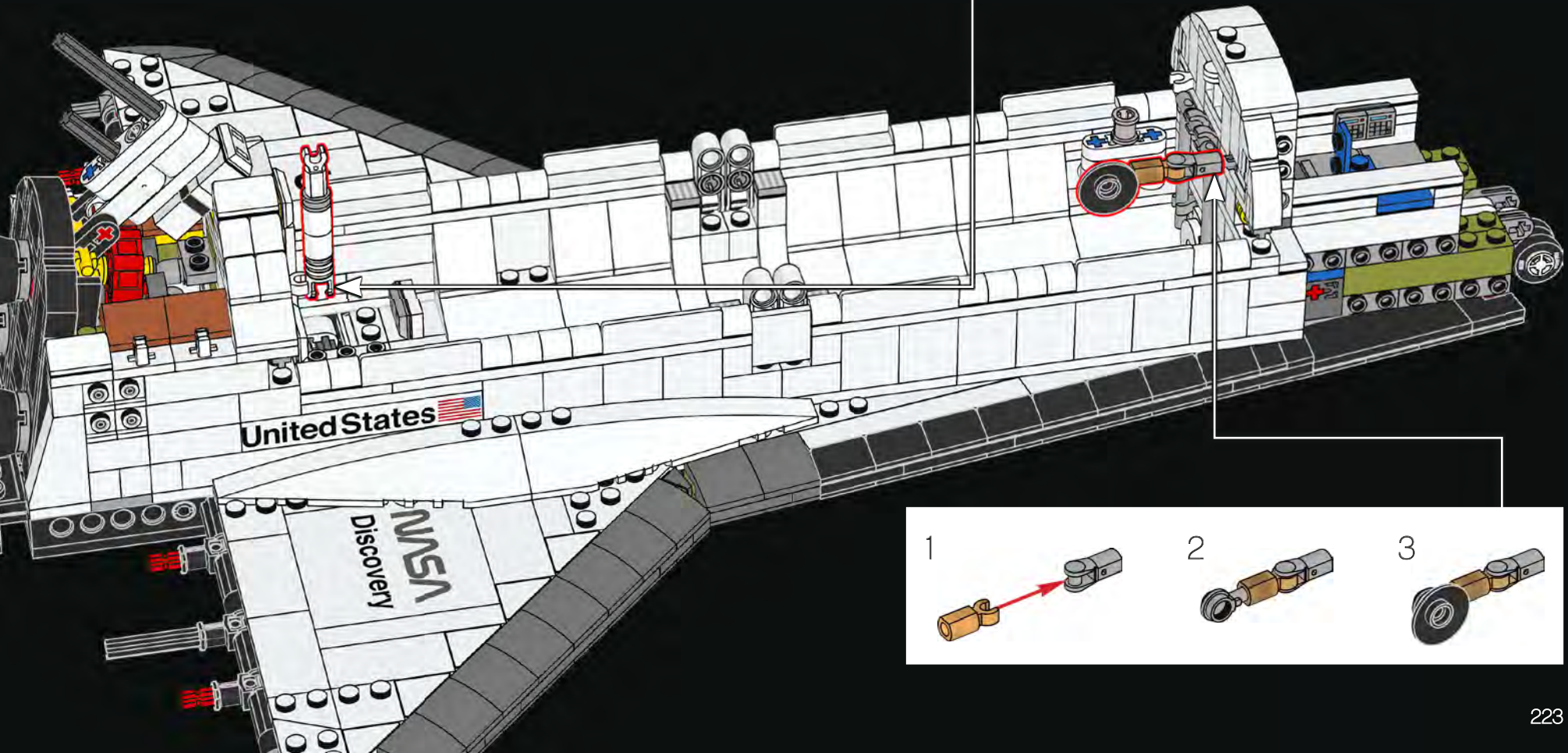


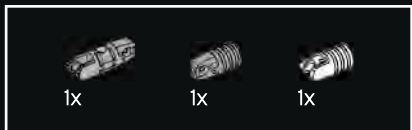
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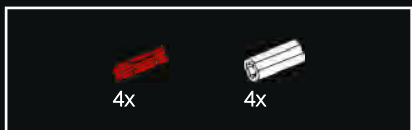
DID YOU KNOW?

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

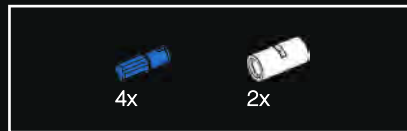
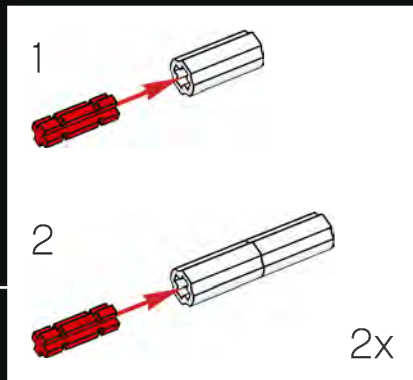
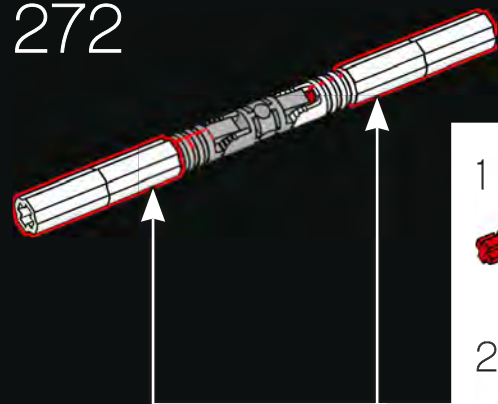




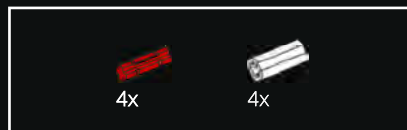
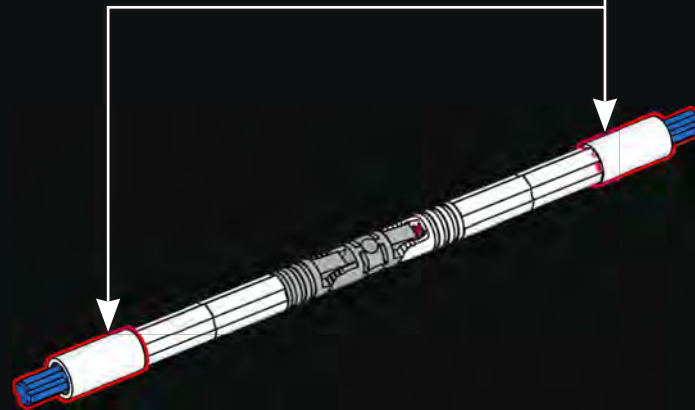
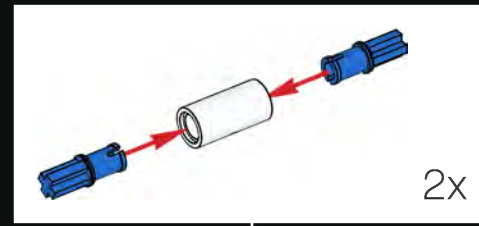
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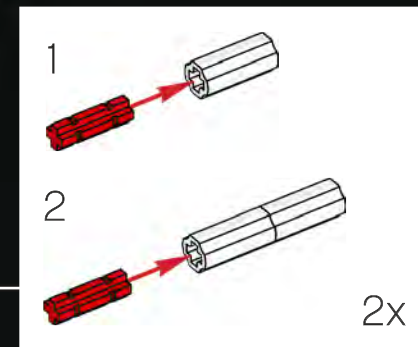
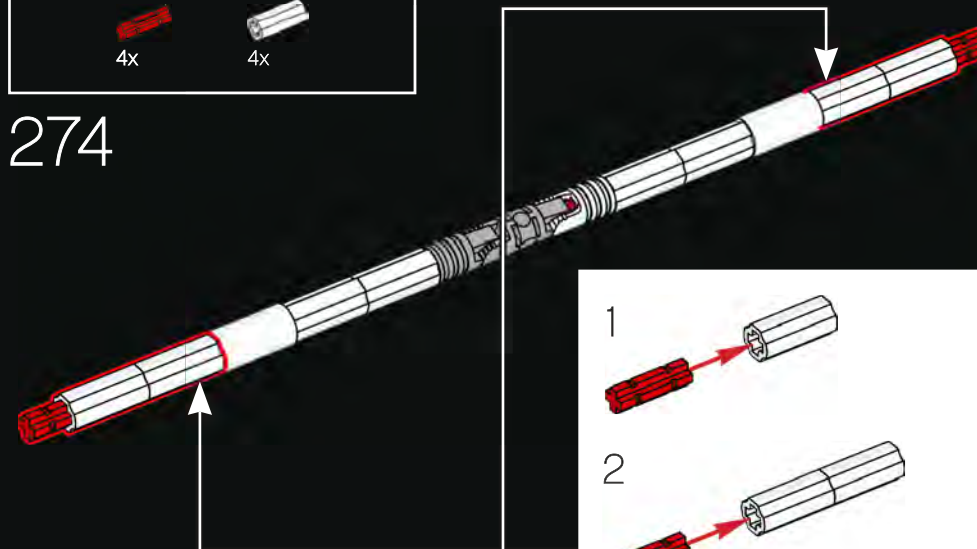
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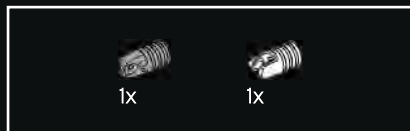


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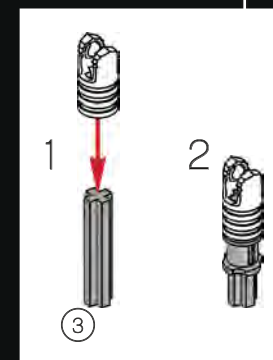
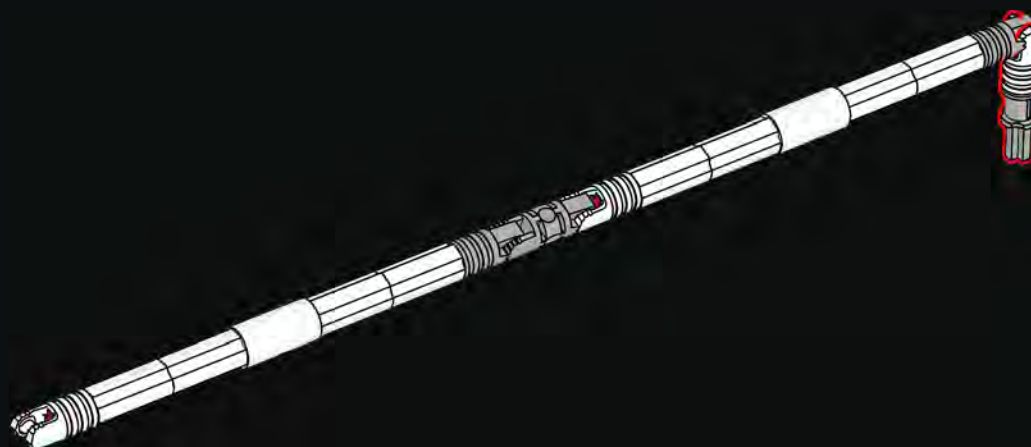




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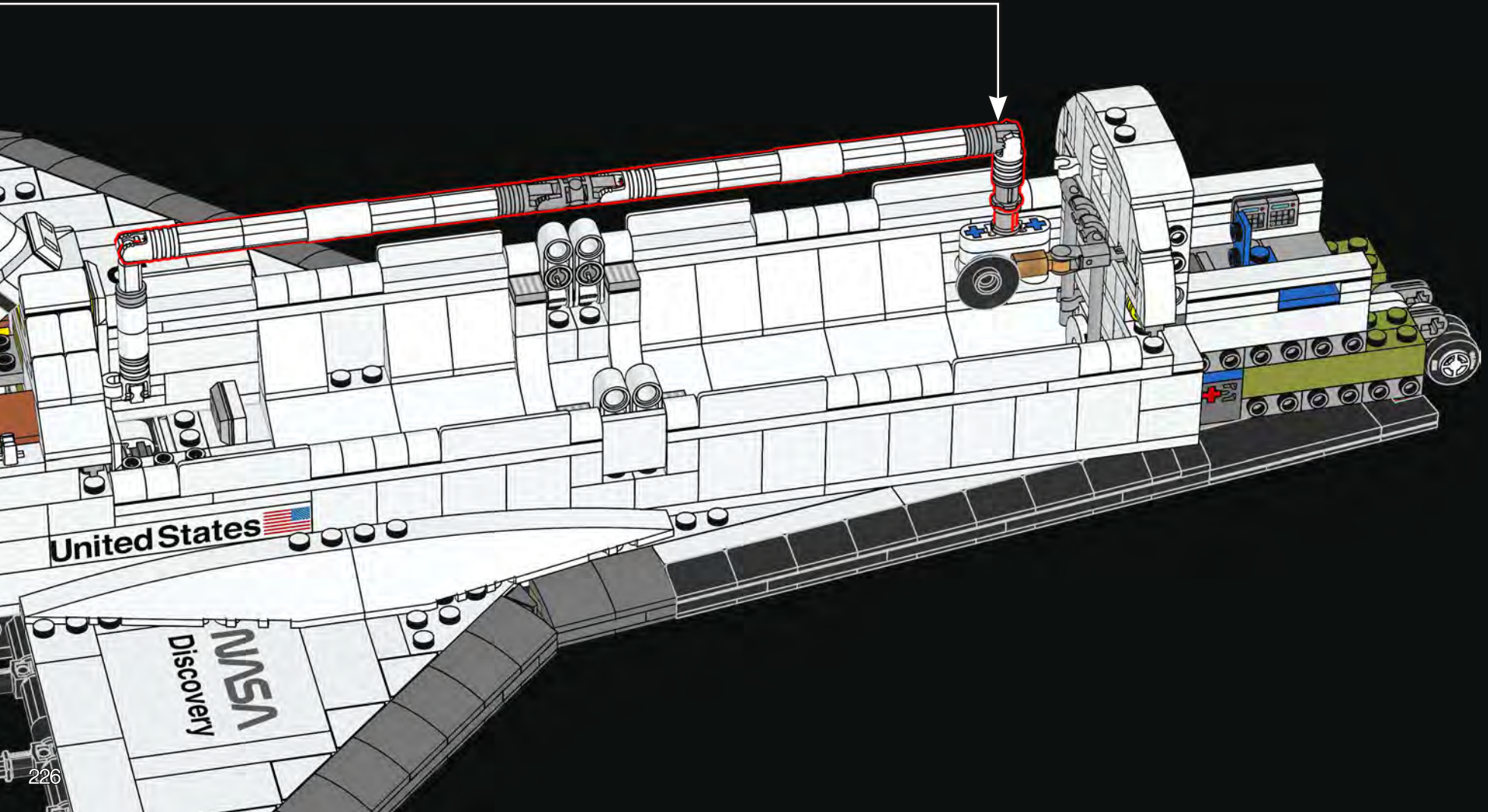
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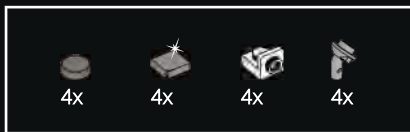


DID YOU KNOW?

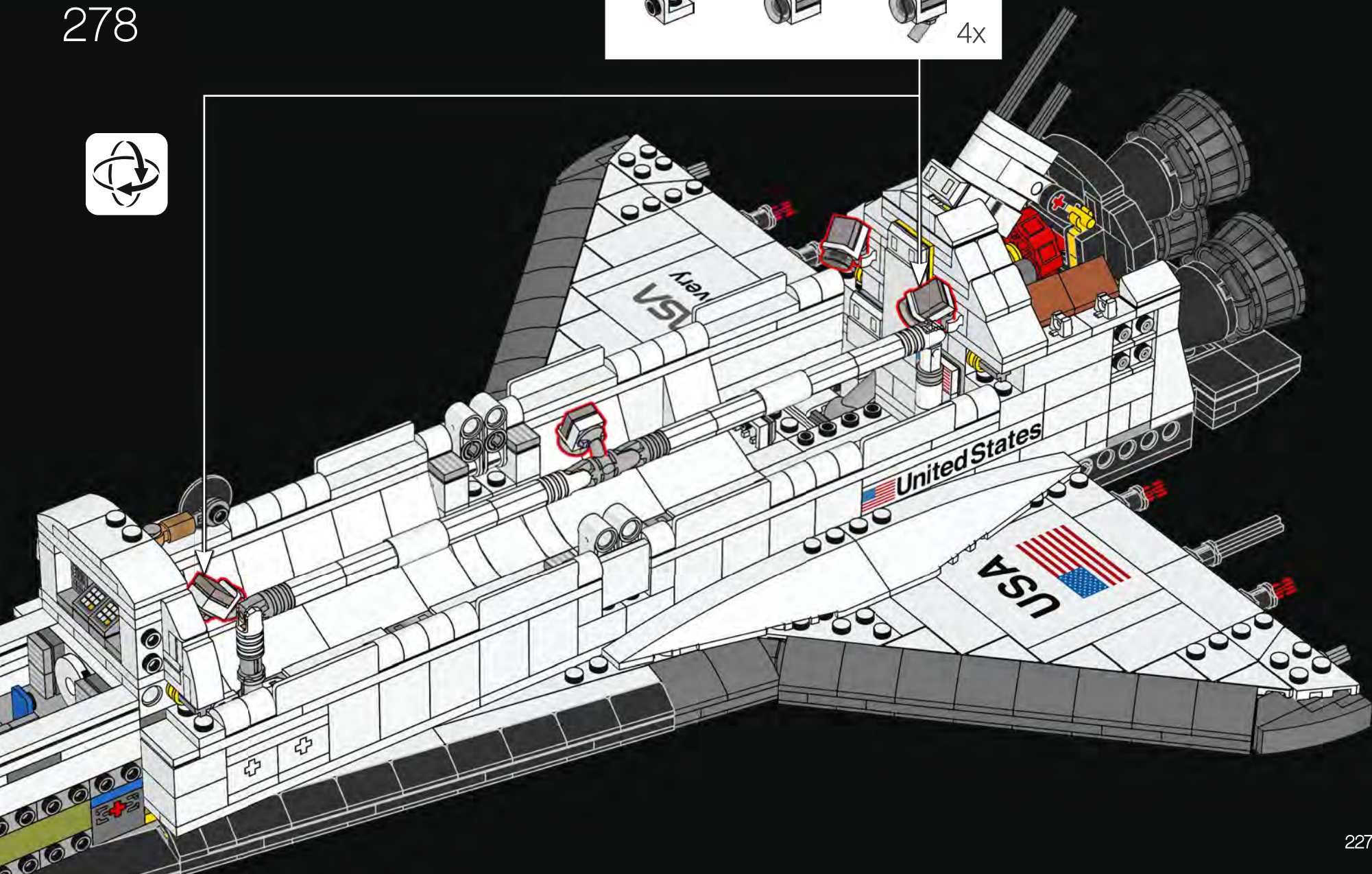
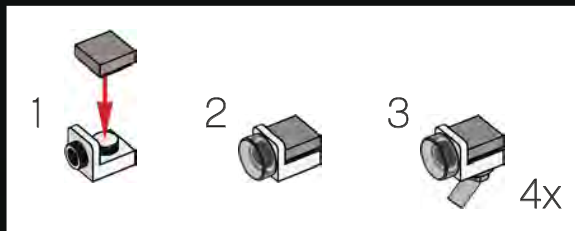
The shuttle's Remote Manipulator System (RMS) was used by astronauts inside to deploy and manoeuvre cargo in the payload bay and astronauts during spacewalks.

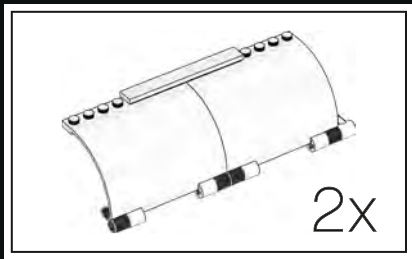
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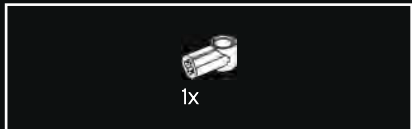


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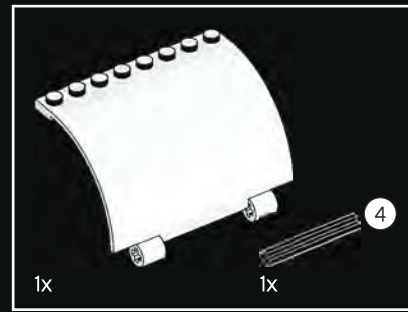




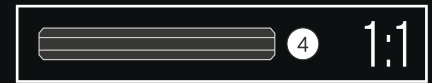
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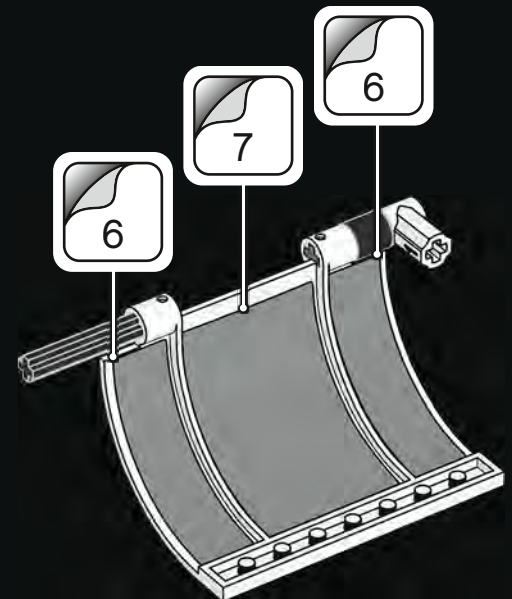
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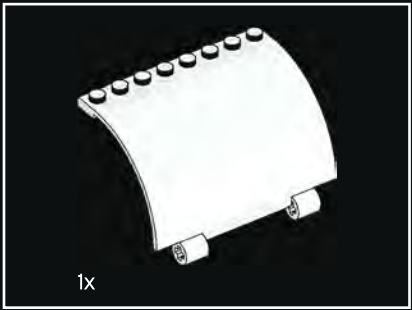
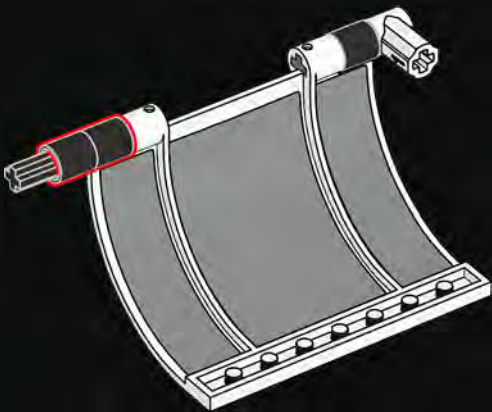


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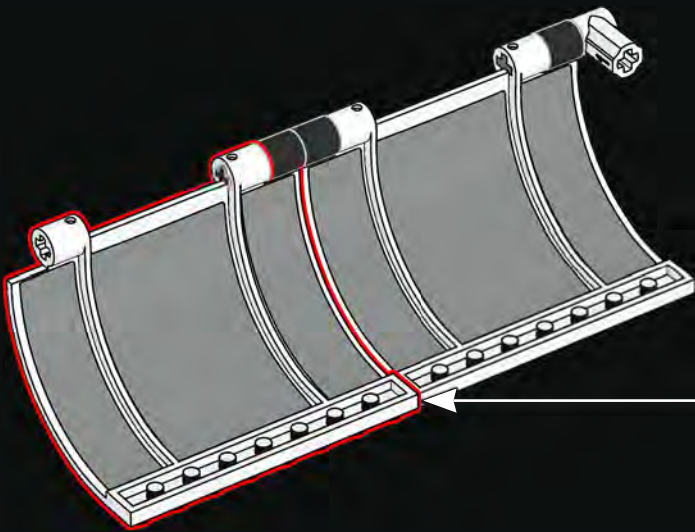




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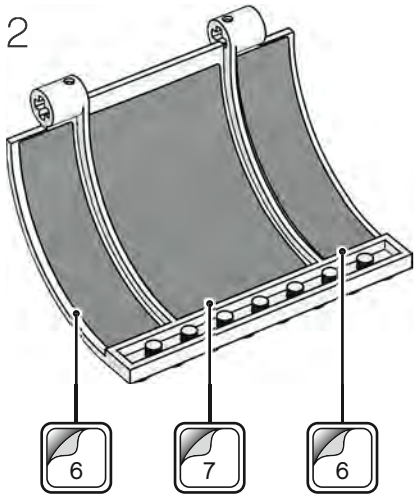


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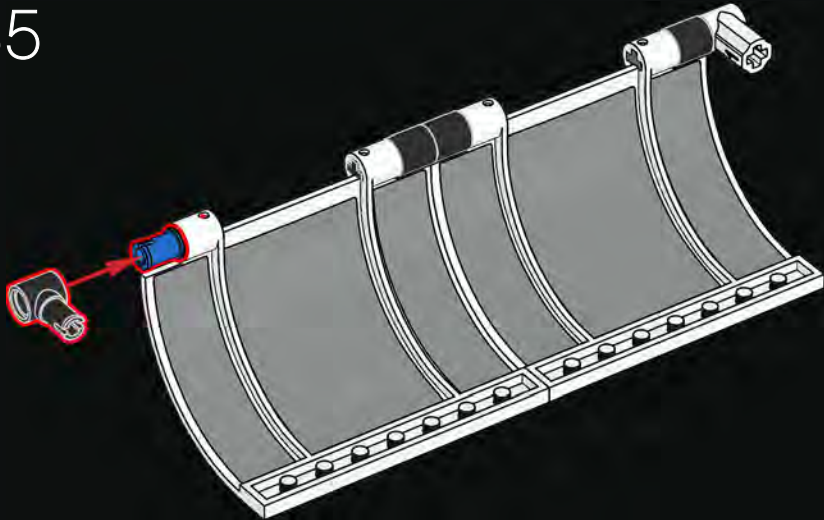
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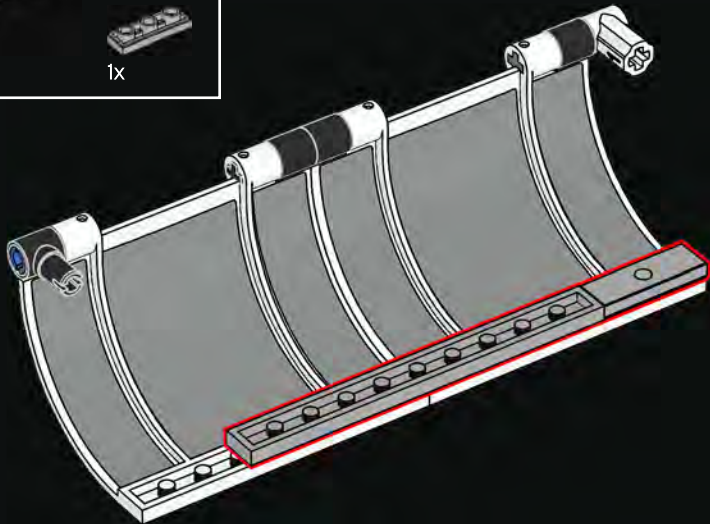




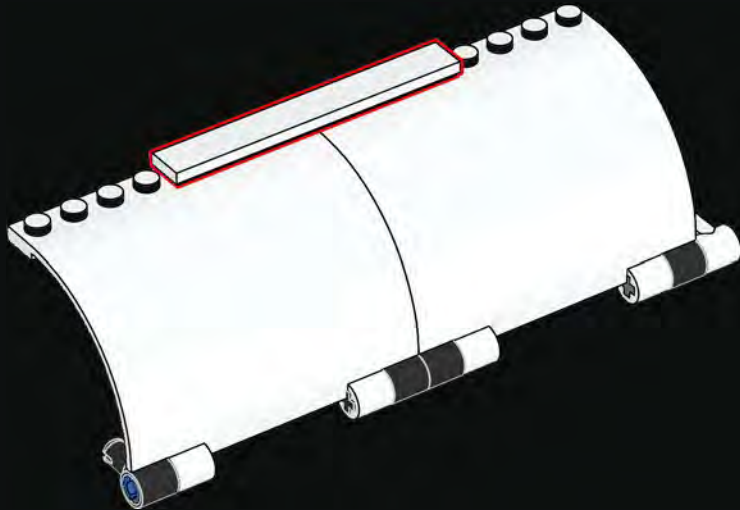
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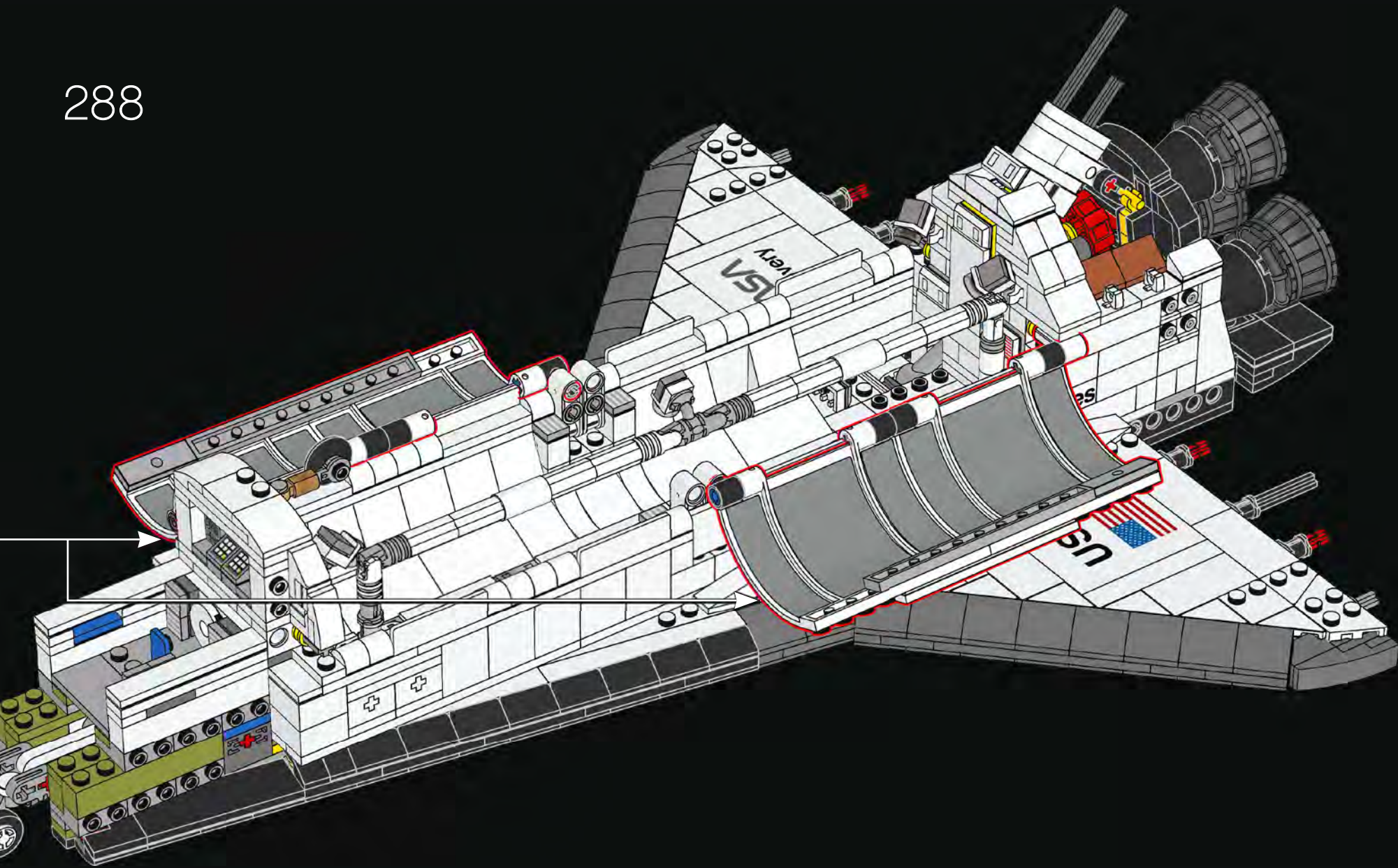


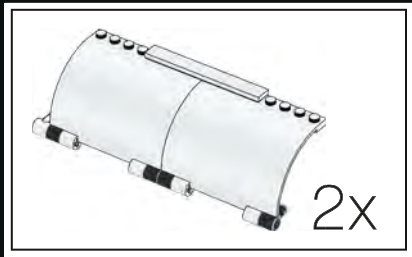
287



2x

288

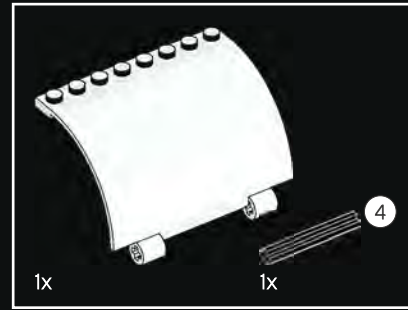




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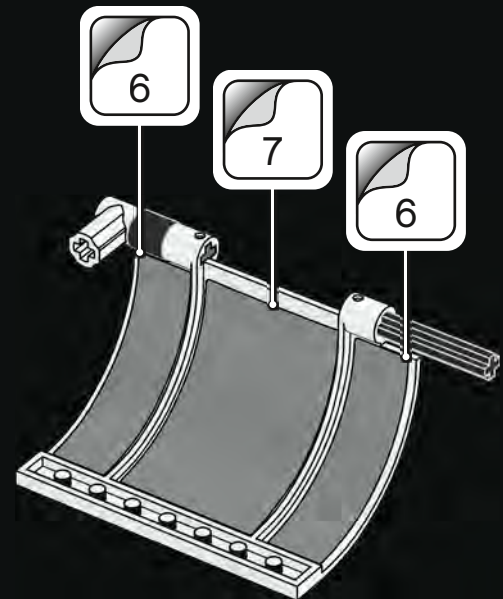
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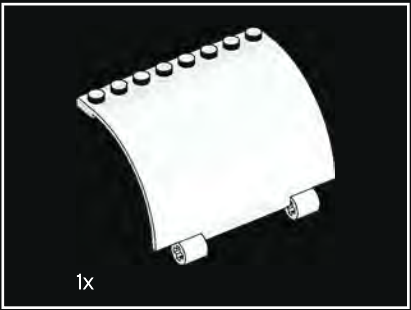


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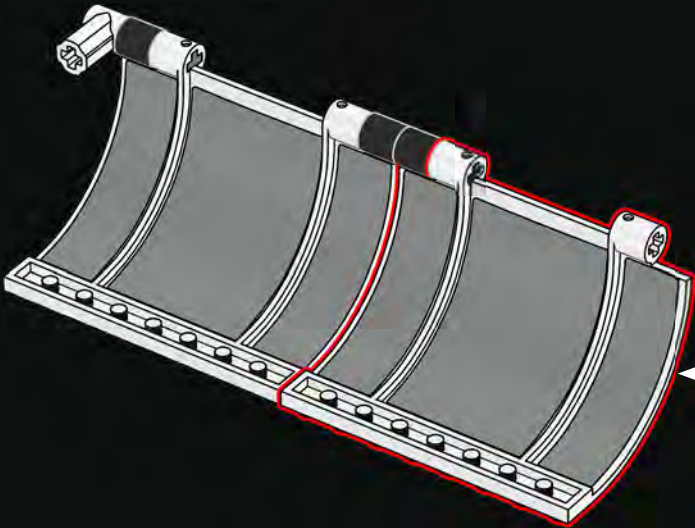
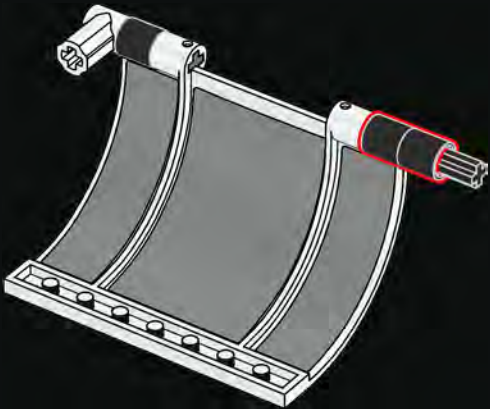
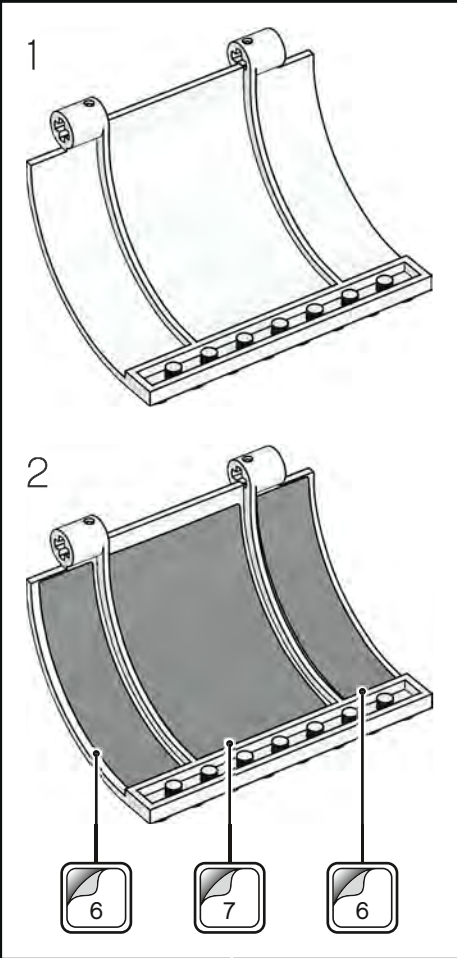


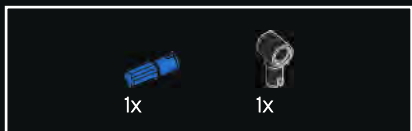


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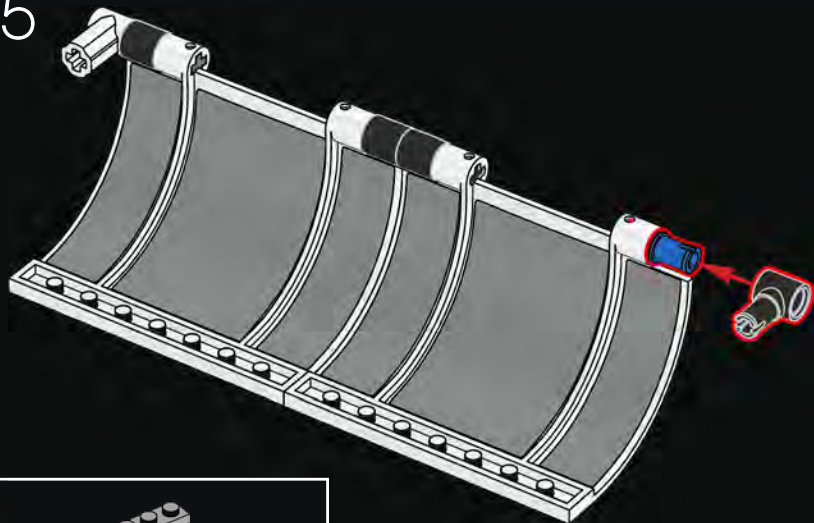


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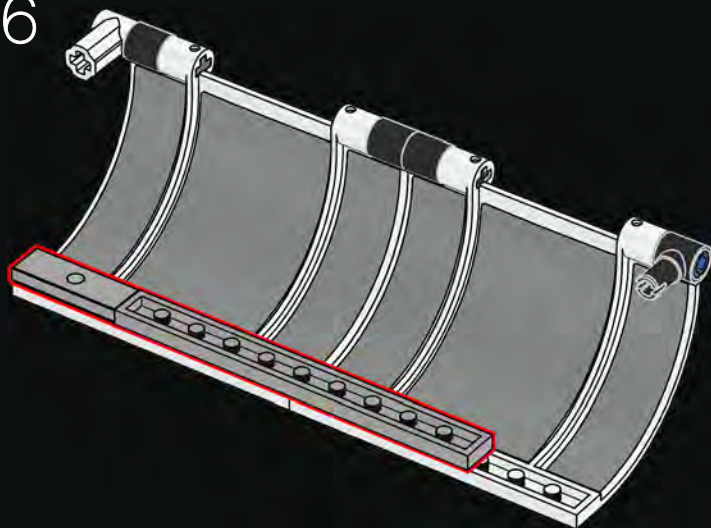




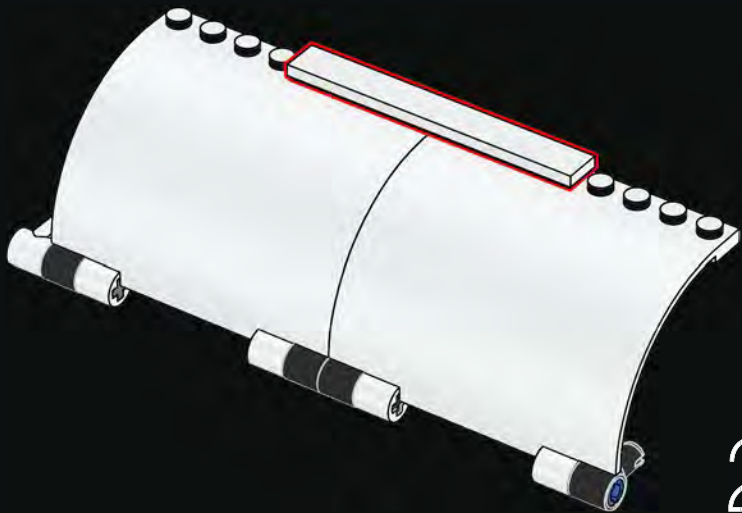
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296



297

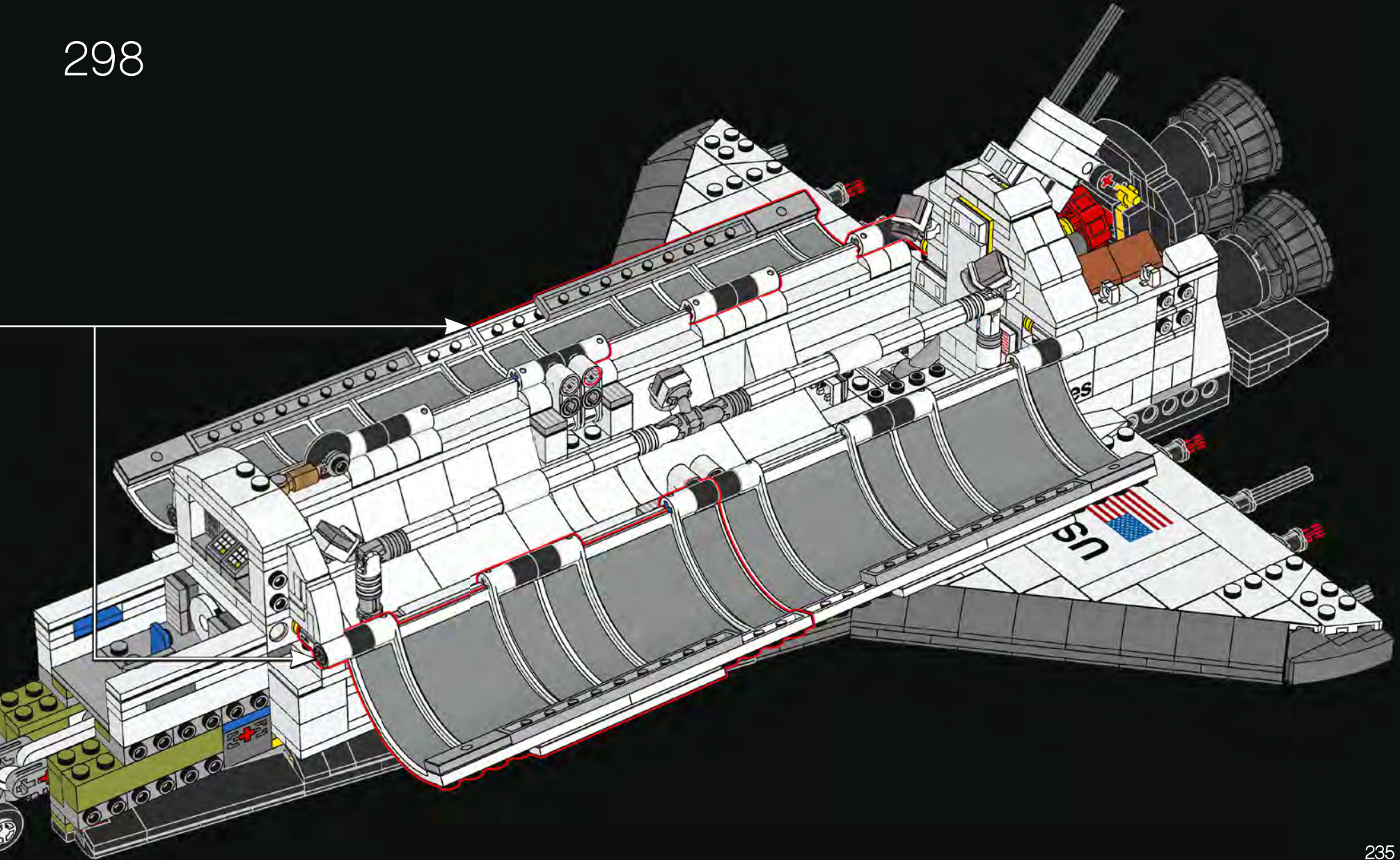


2x

DID YOU KNOW?

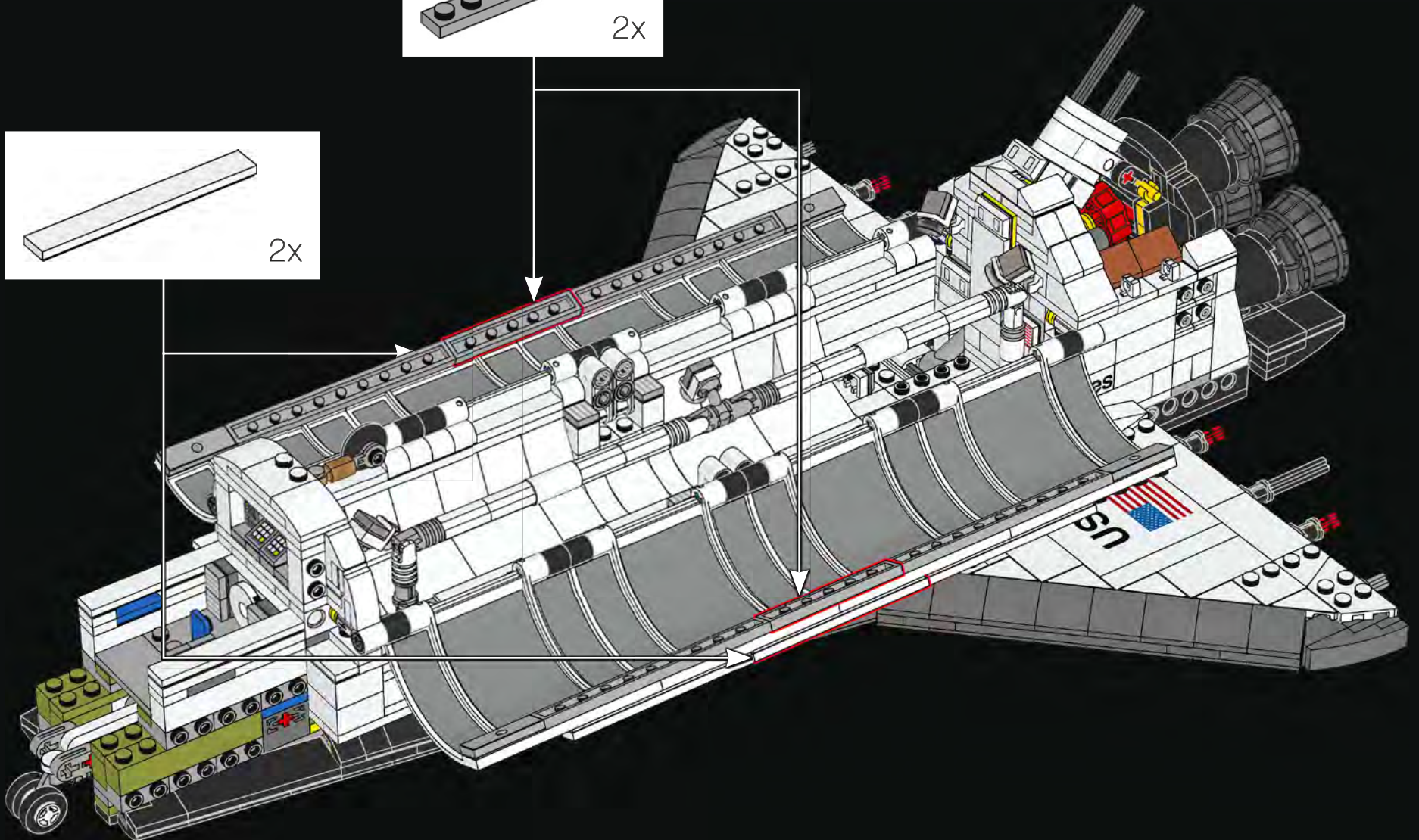
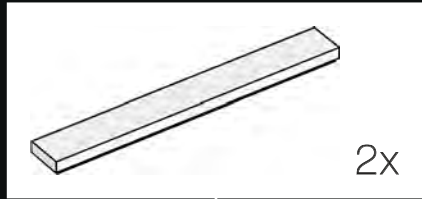
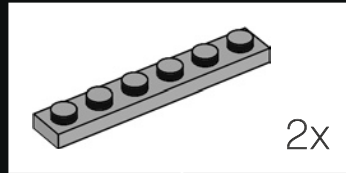
The 18.2 m (60 ft.) long payload bay doors are always opened to activate radiators for cooling the shuttle after it has reached orbit.

298



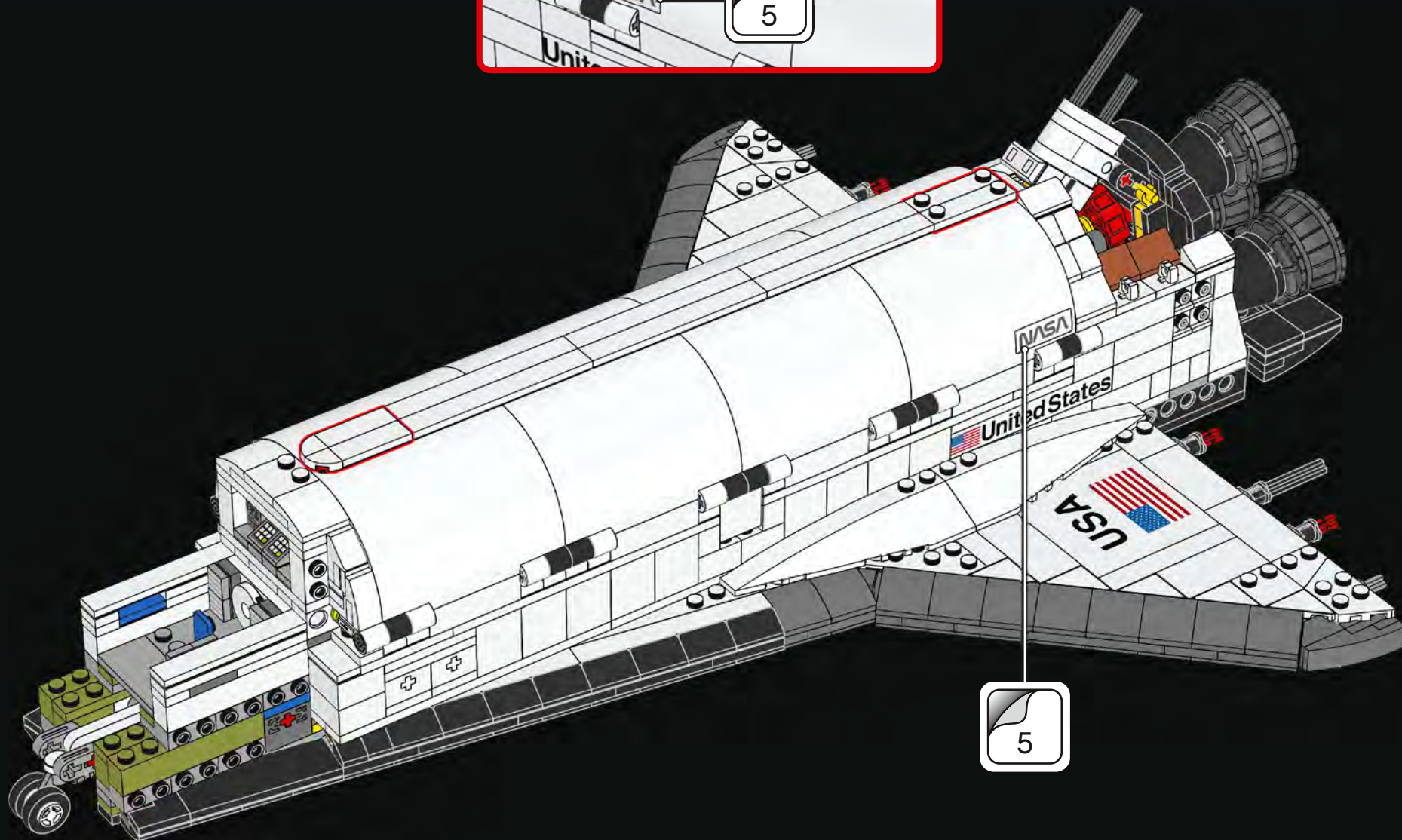
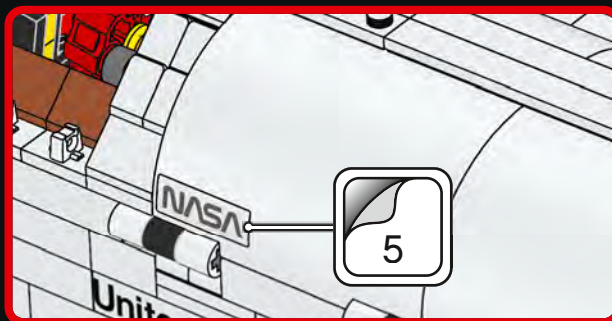


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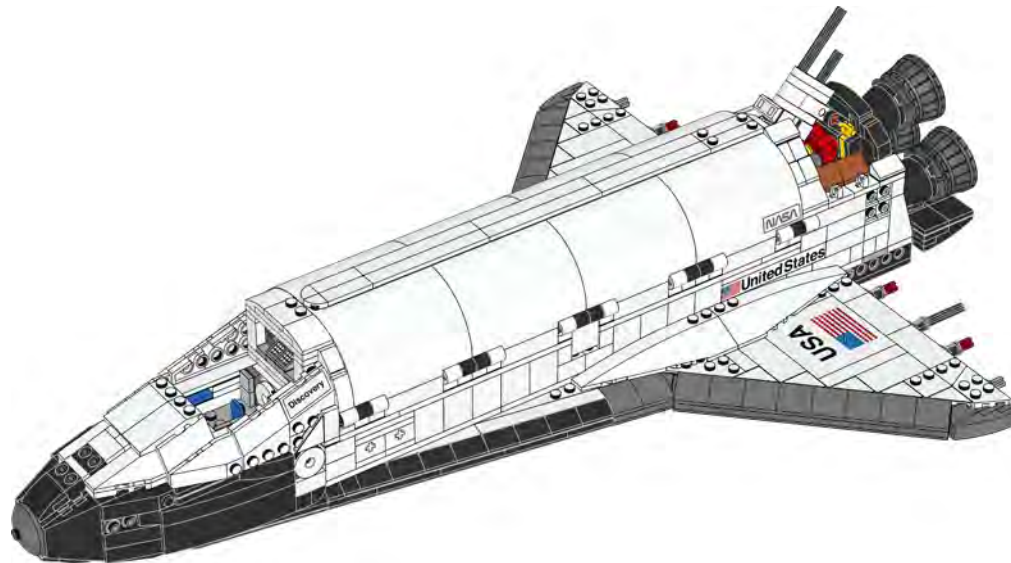


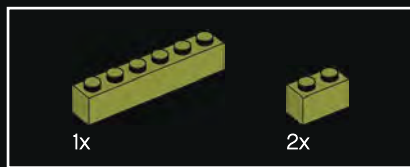


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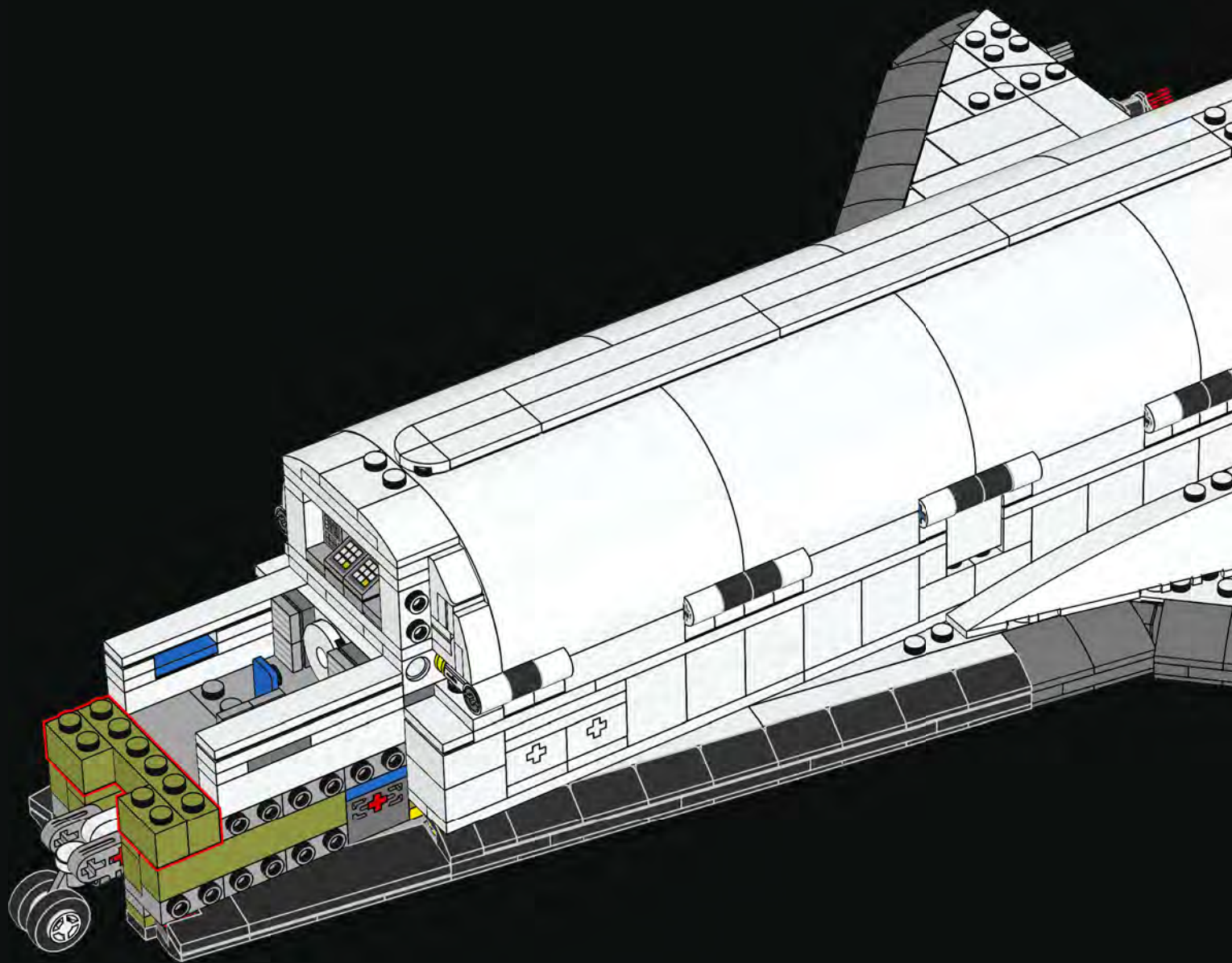


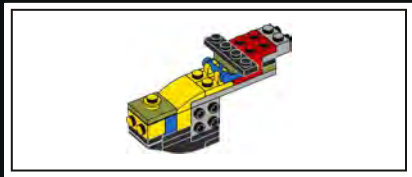
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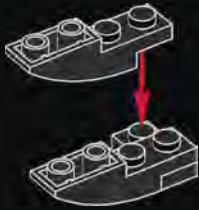


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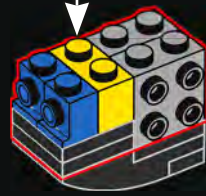
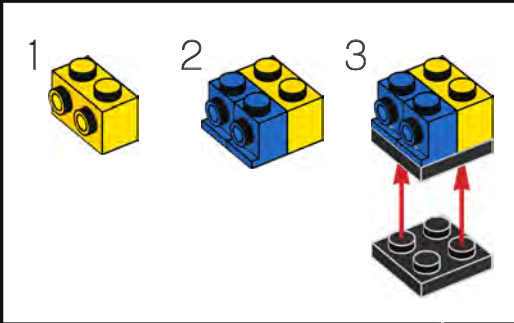
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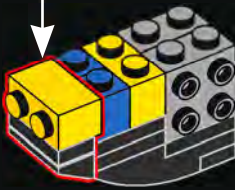
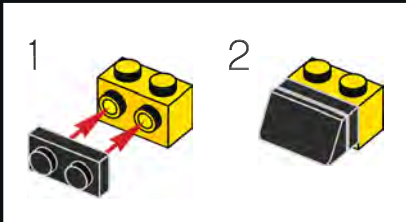
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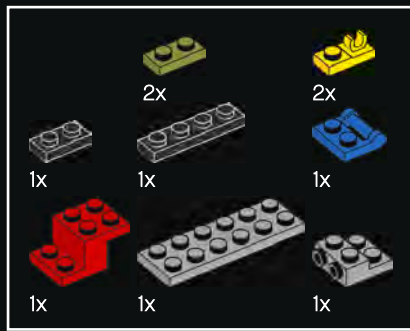


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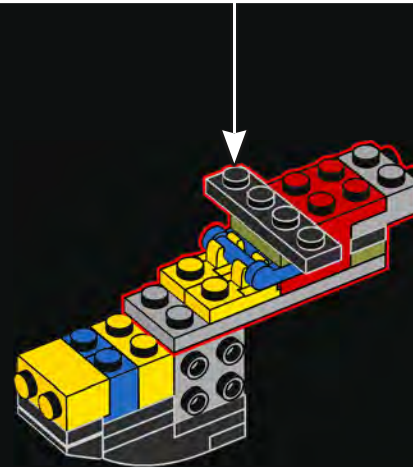
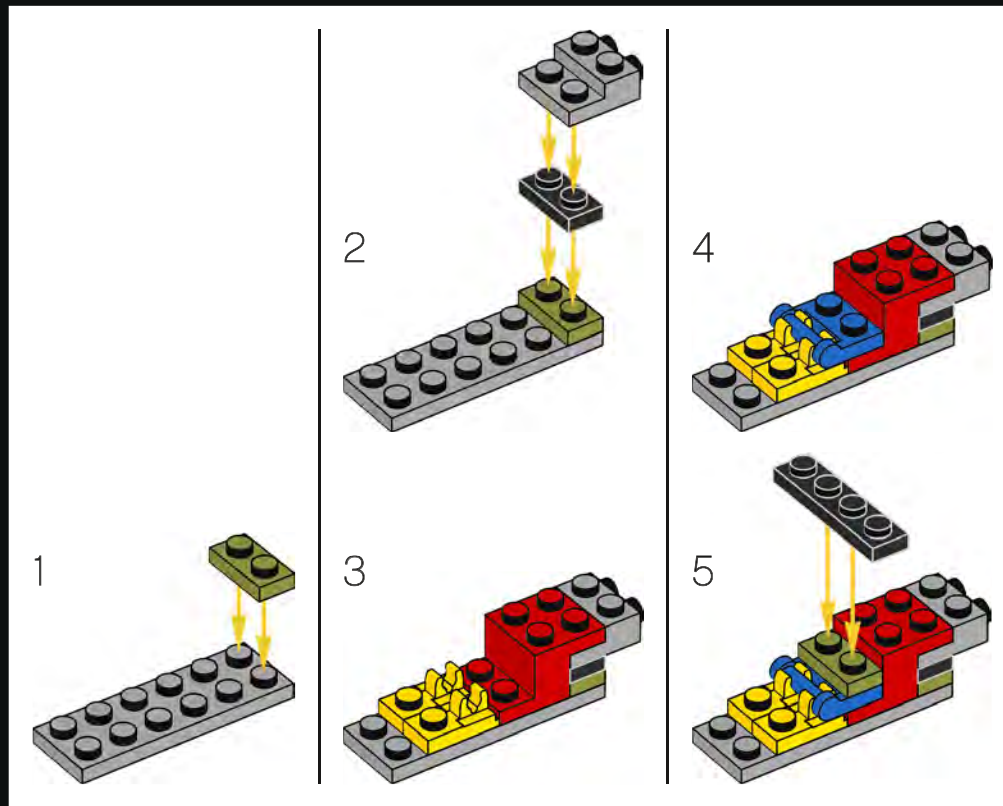


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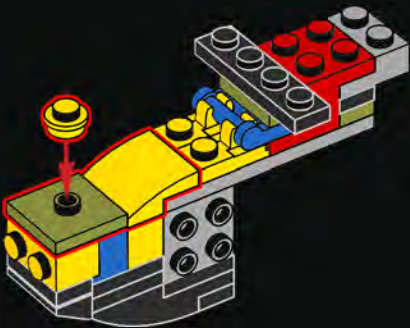


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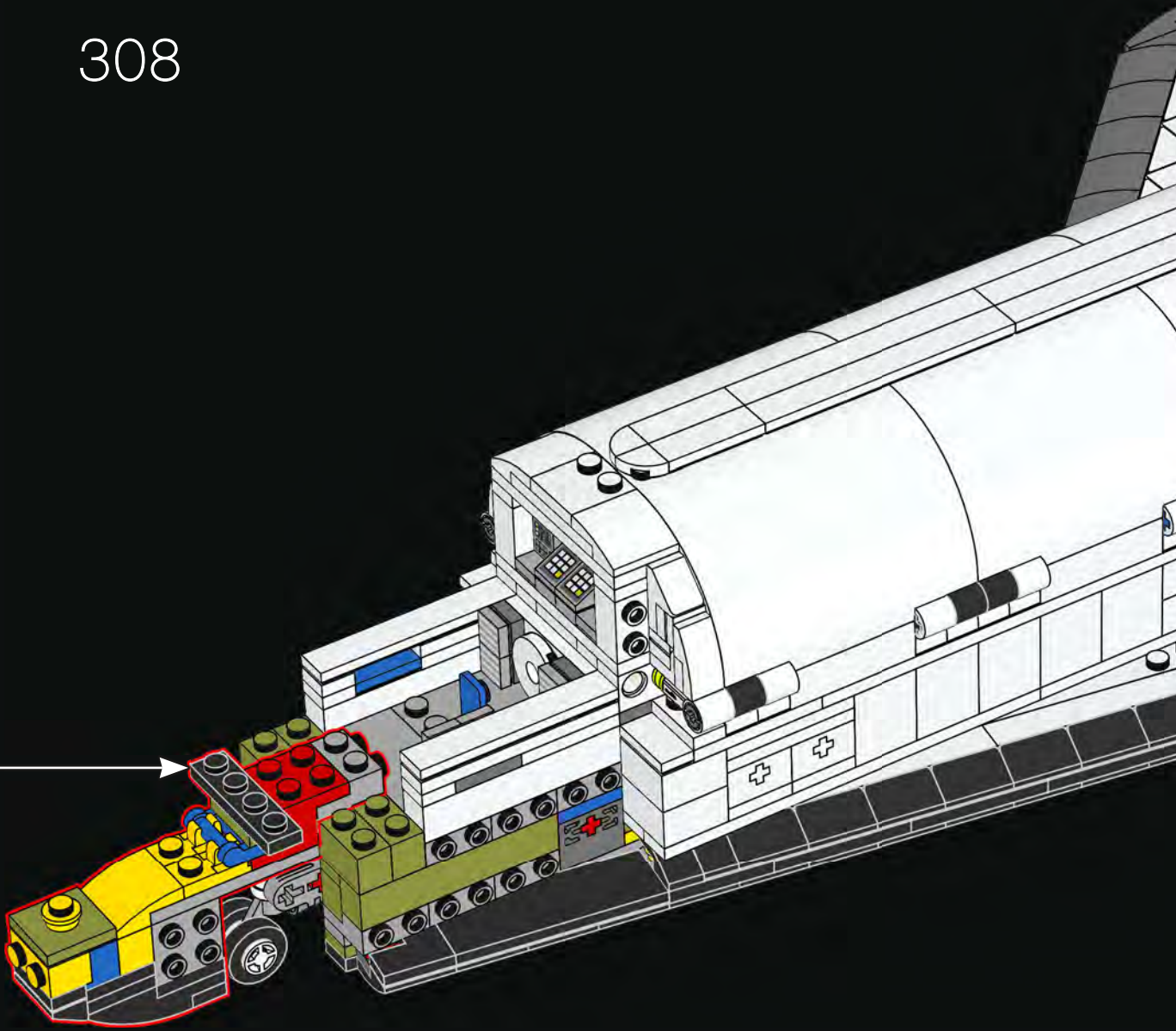




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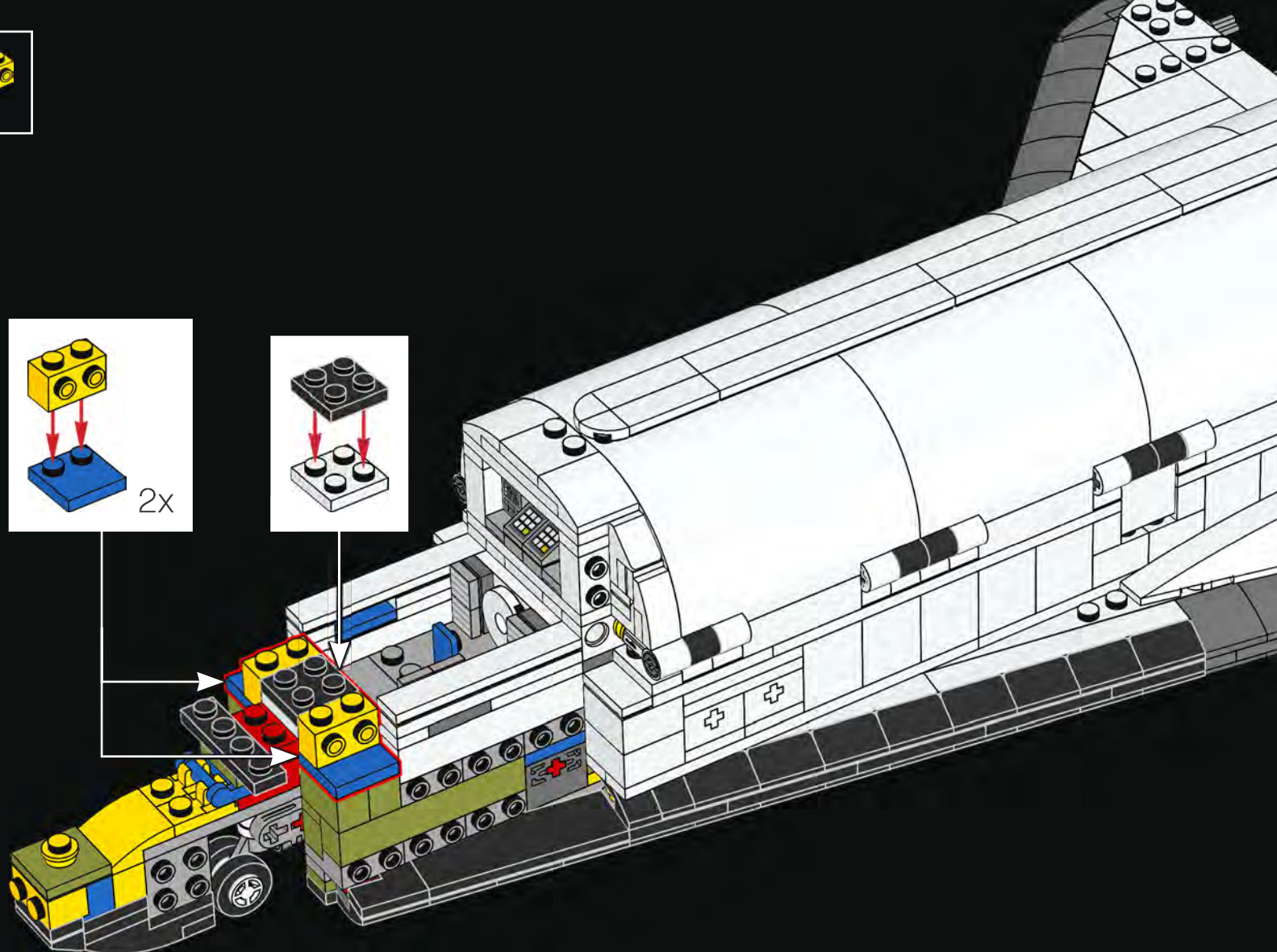
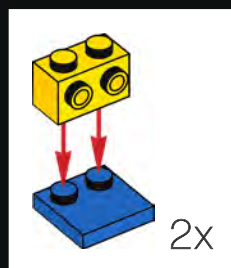


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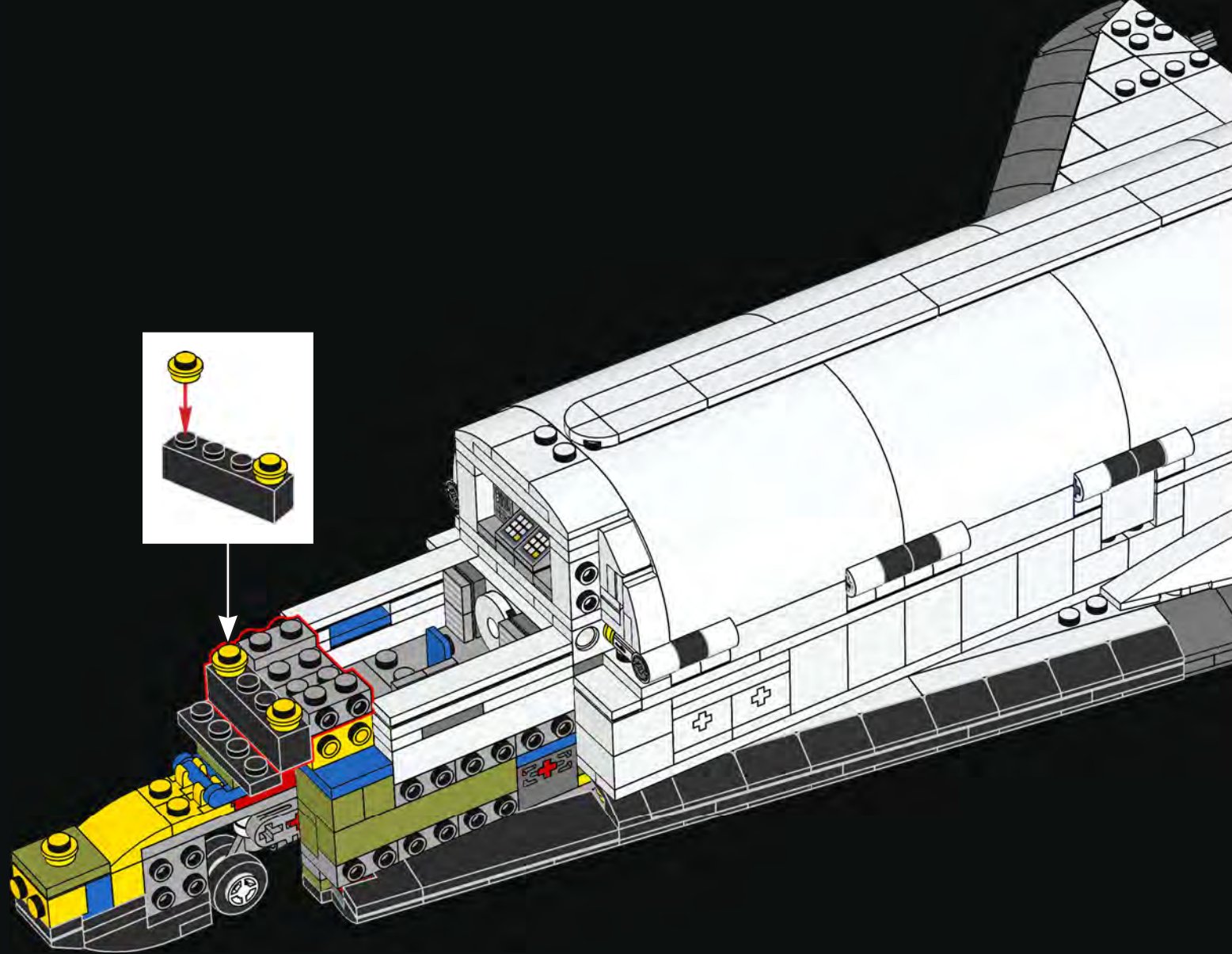


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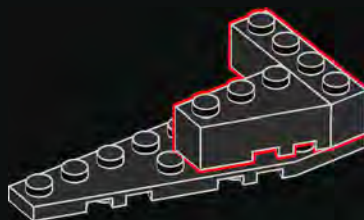




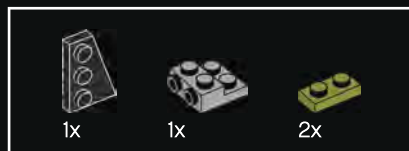
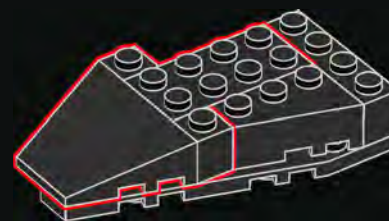
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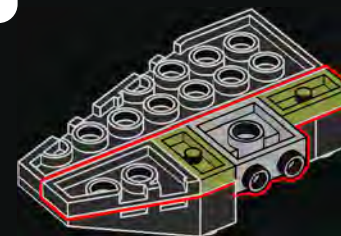
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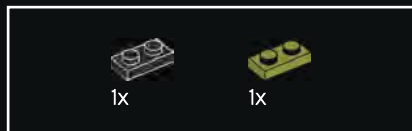


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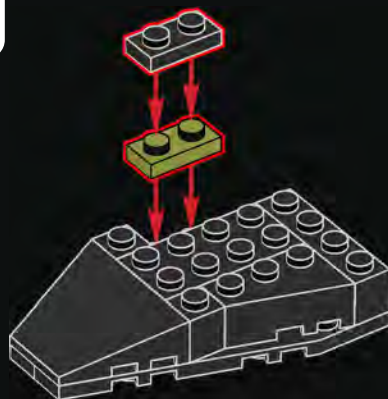


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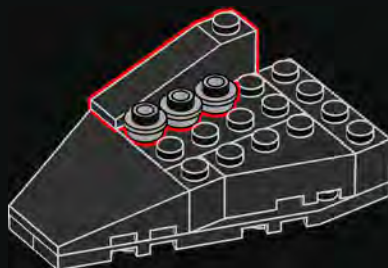




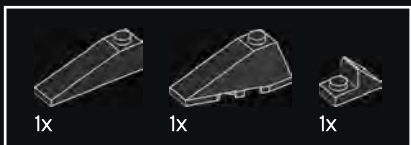
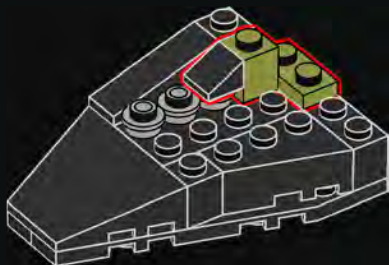
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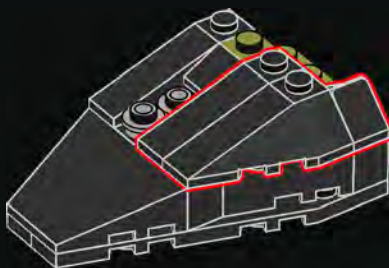
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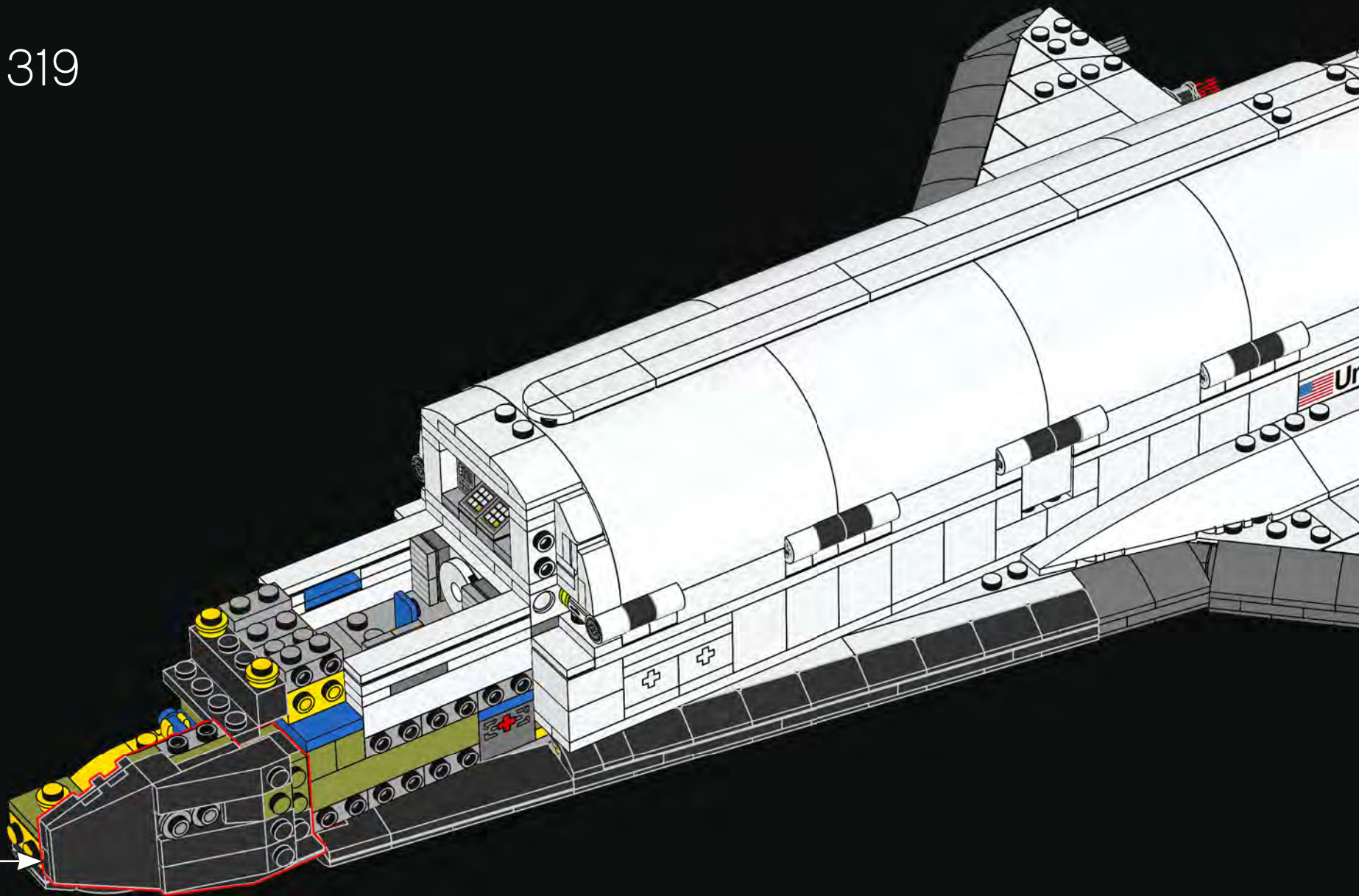
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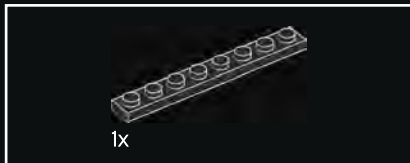
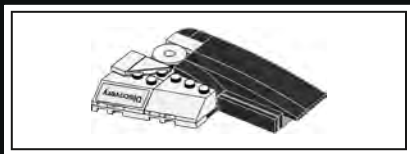


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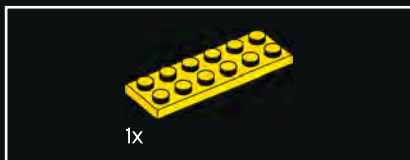
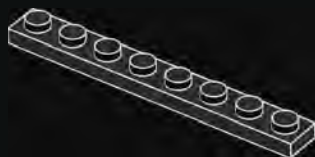


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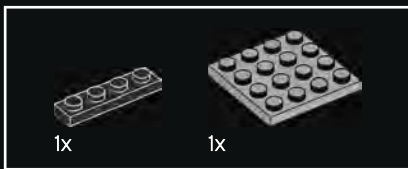
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321



322

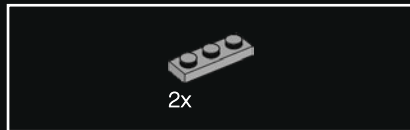
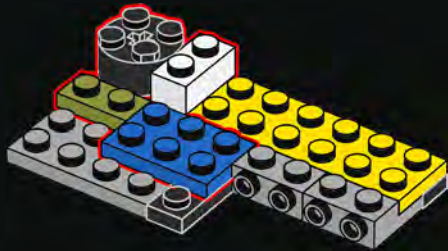


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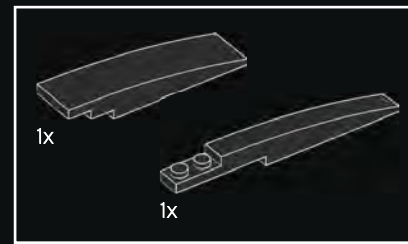
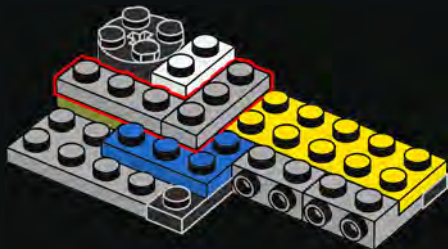




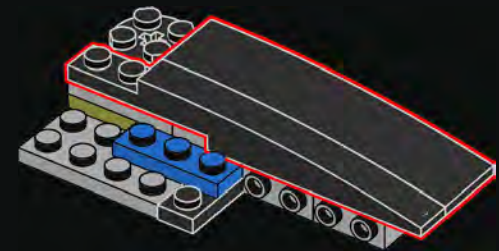
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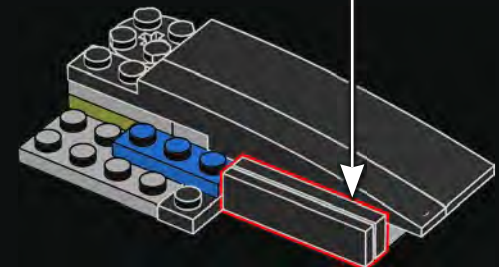
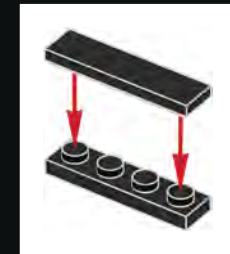
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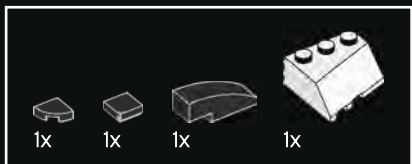
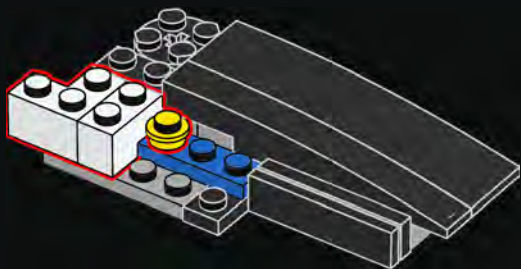


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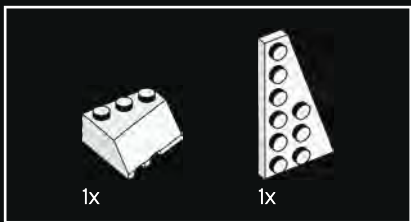
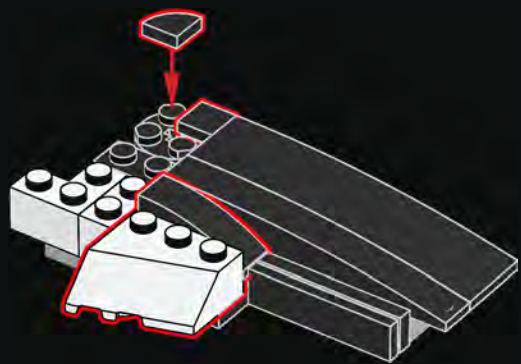




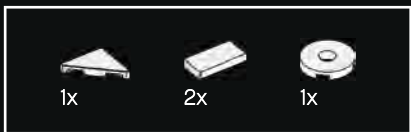
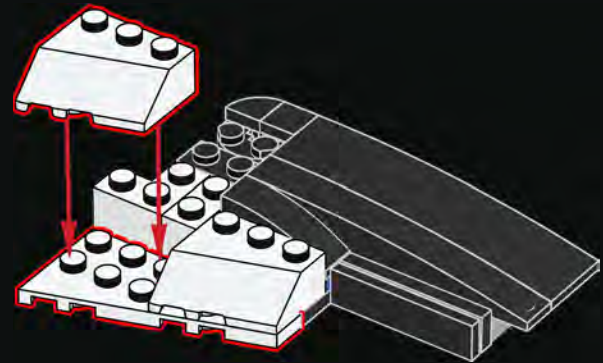
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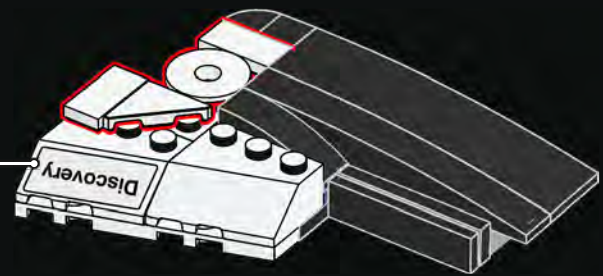
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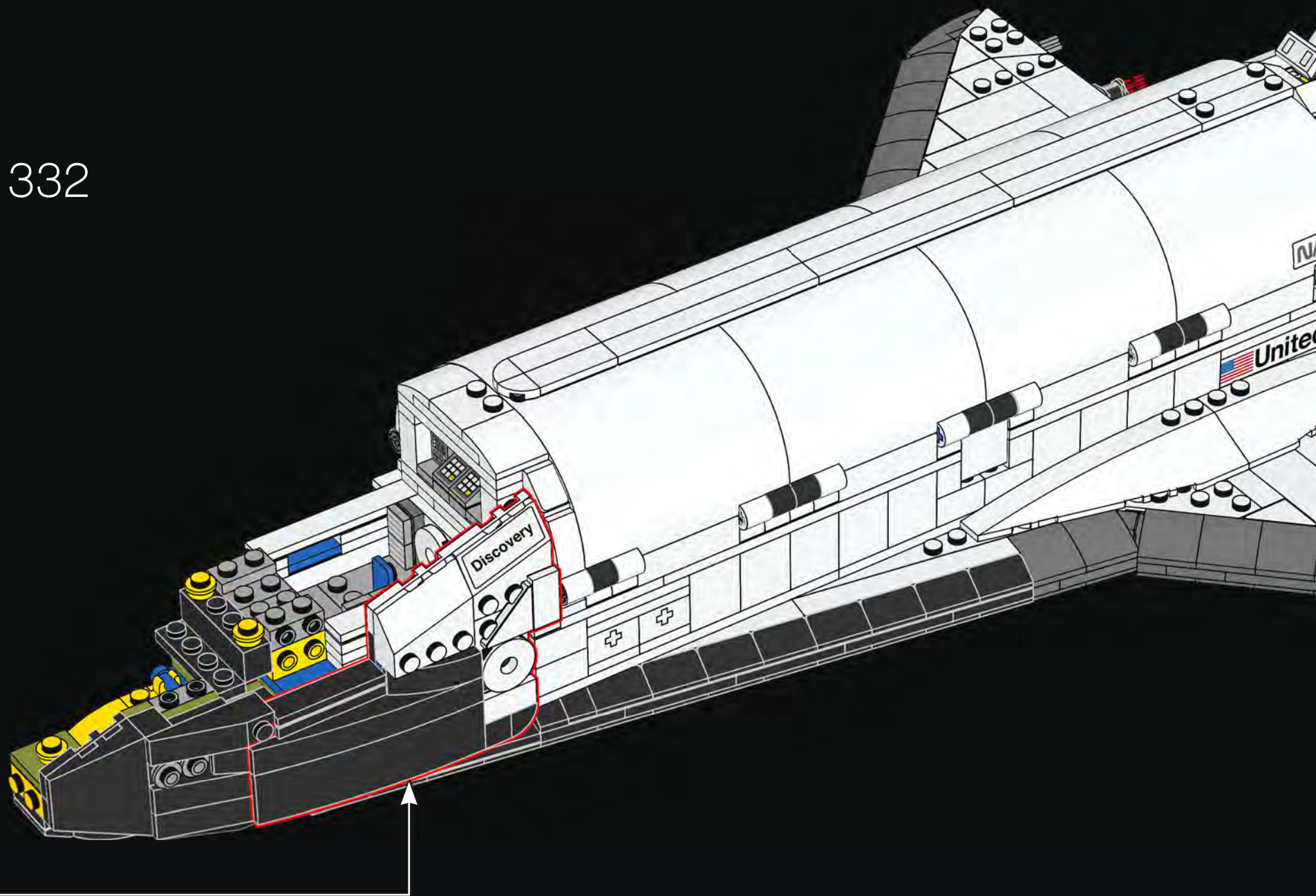
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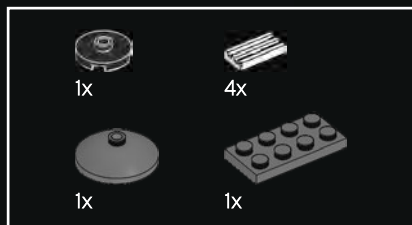


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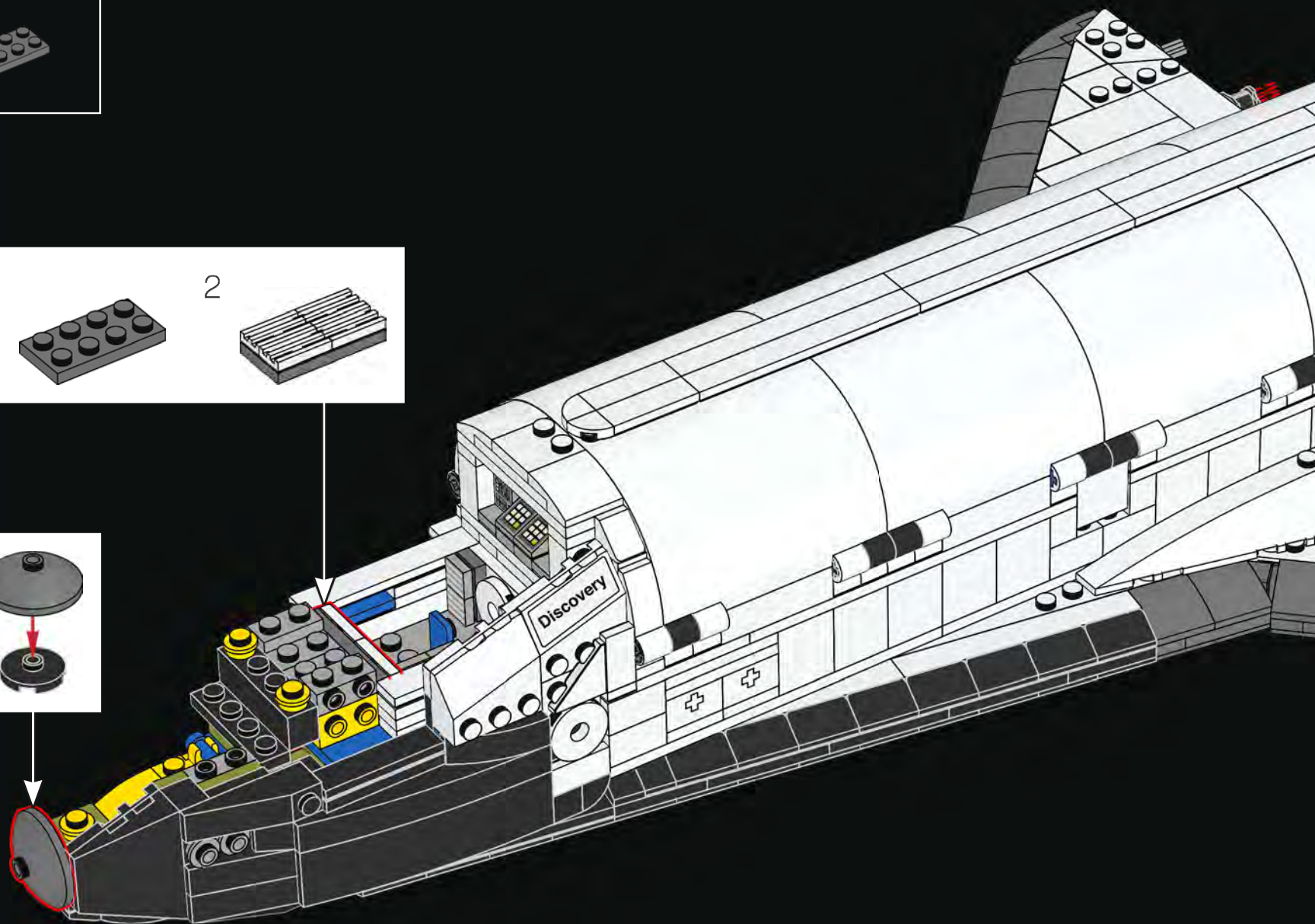
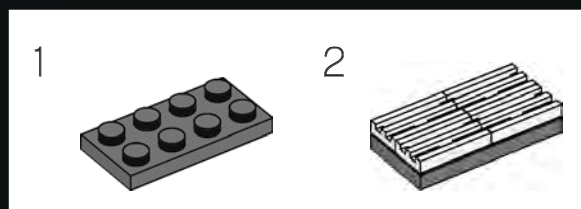


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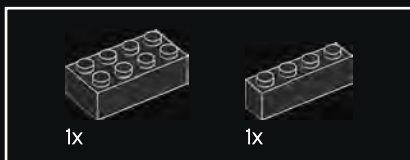


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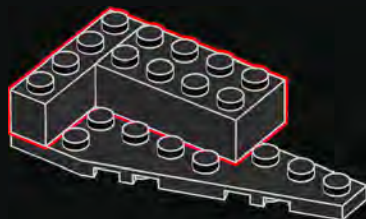




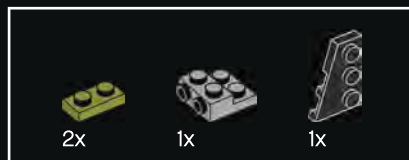
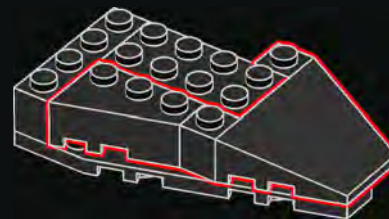
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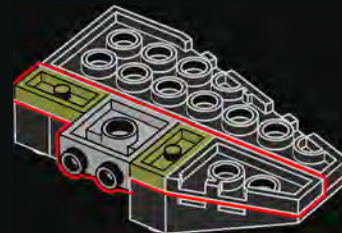
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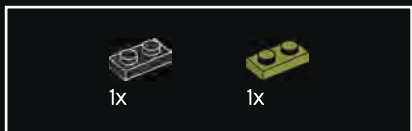


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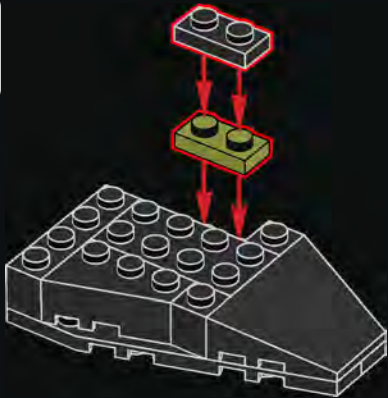


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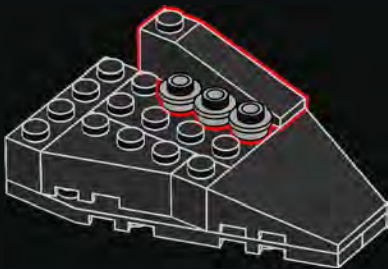




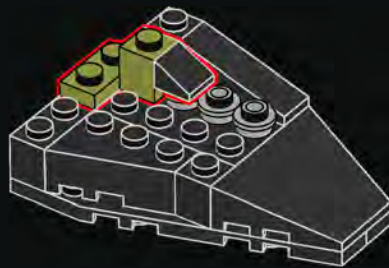
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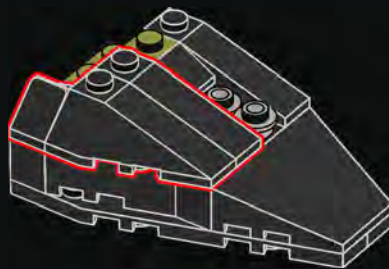
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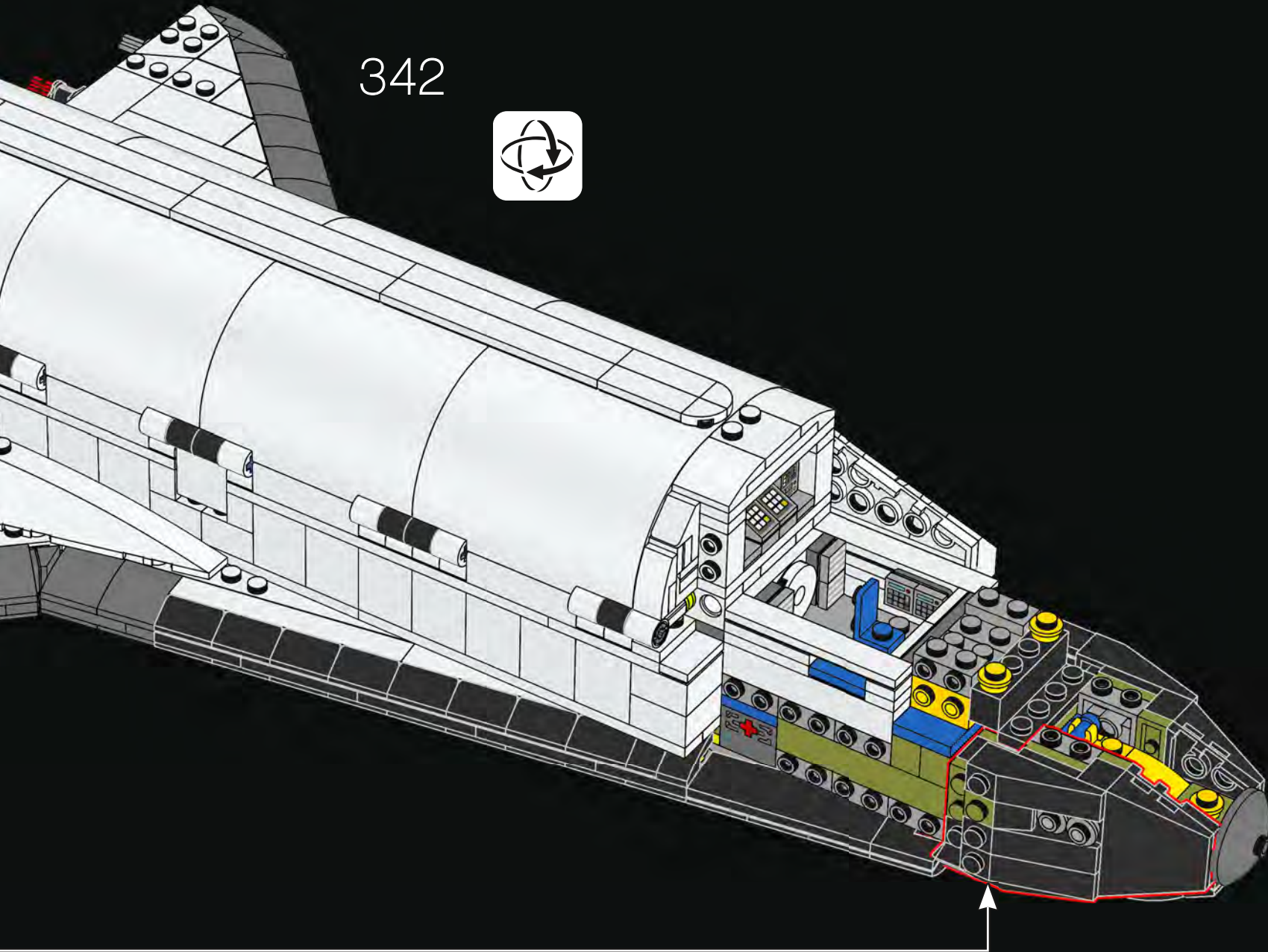
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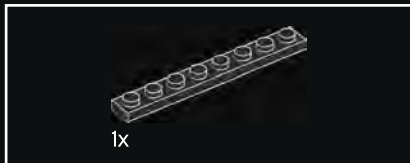
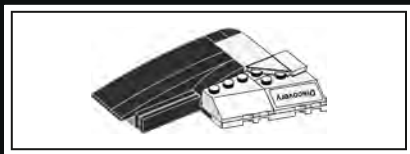


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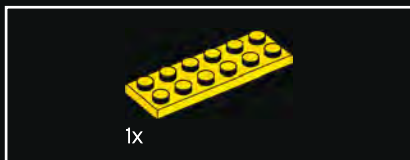


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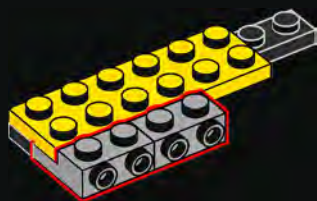
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344



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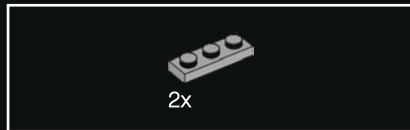
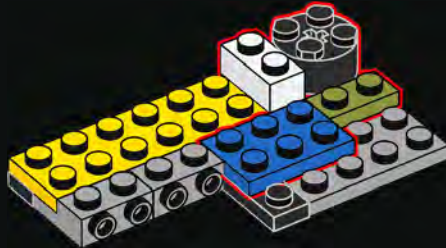


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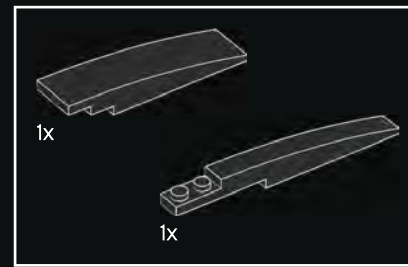
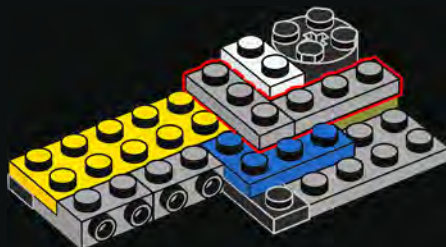




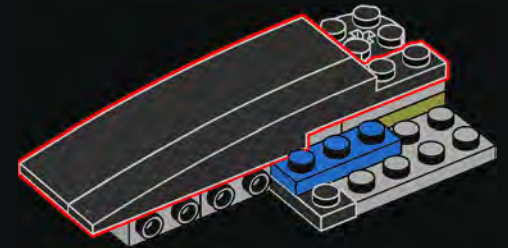
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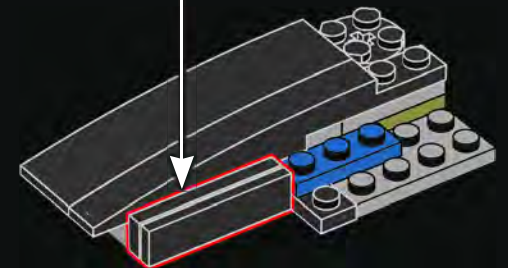
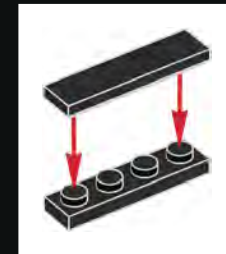
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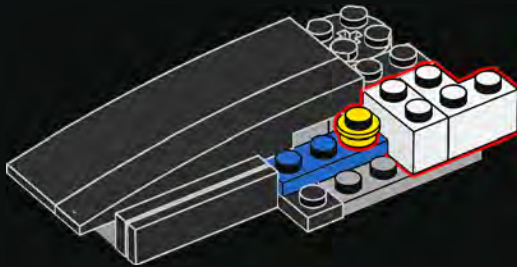


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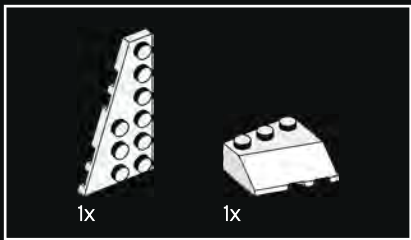
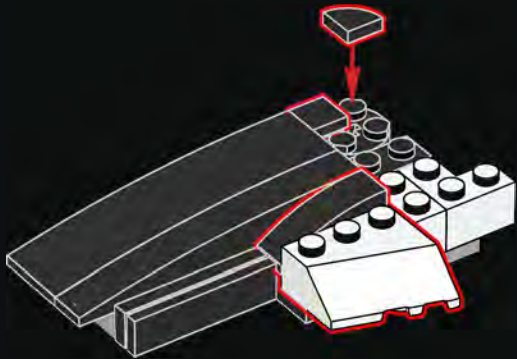




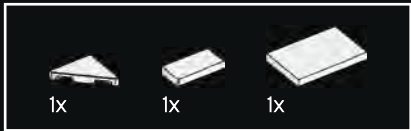
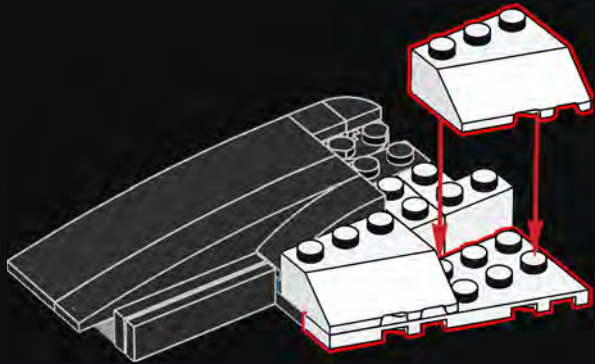
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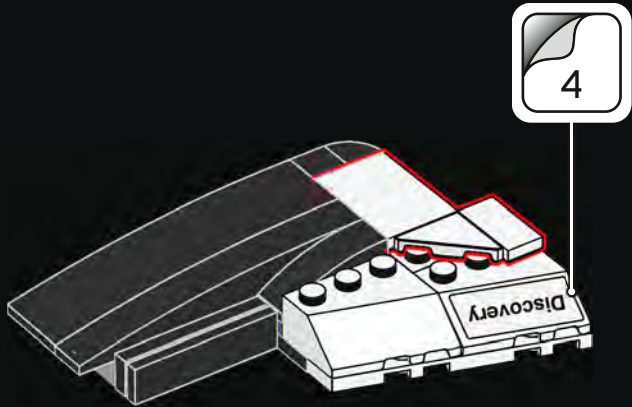
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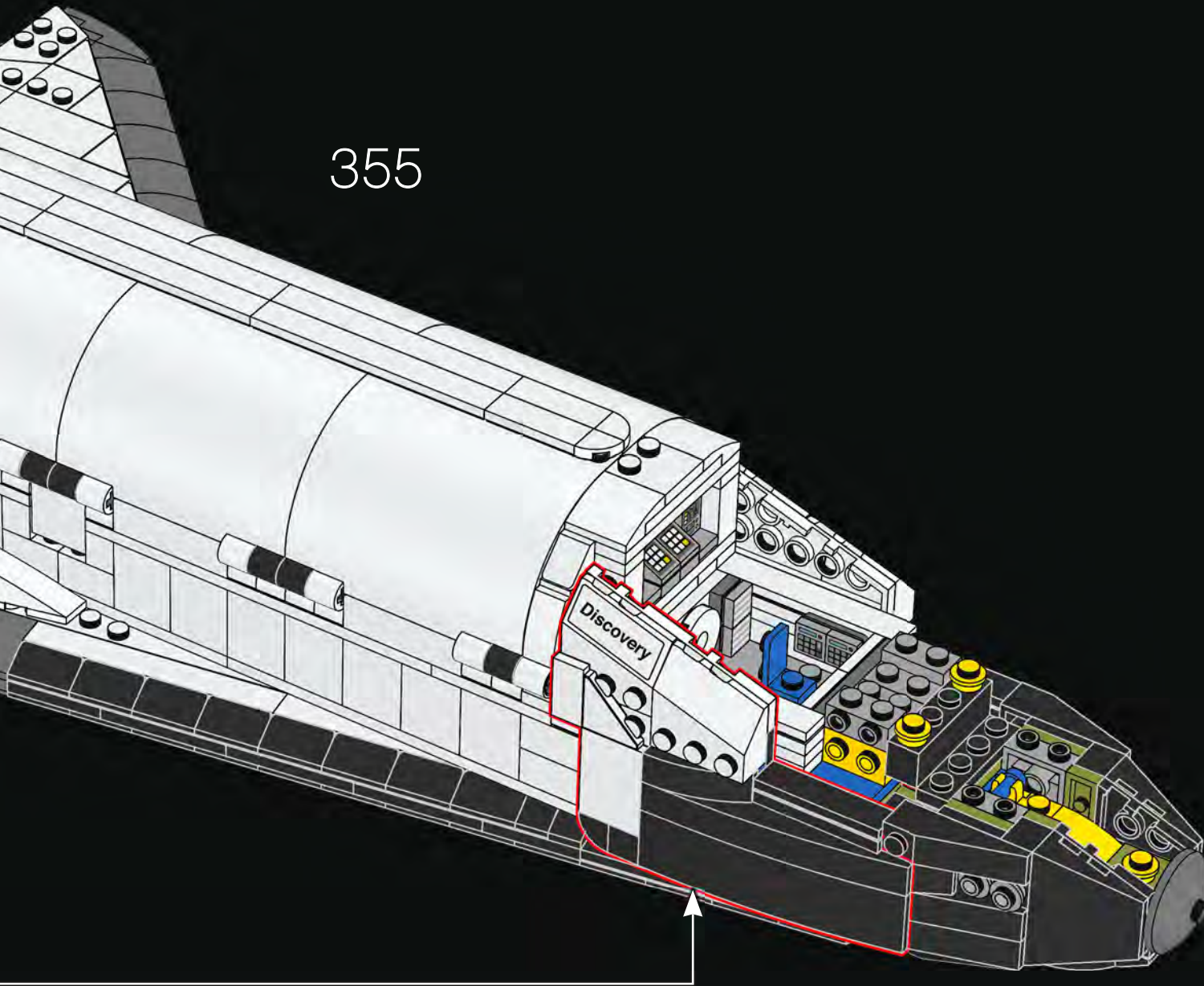
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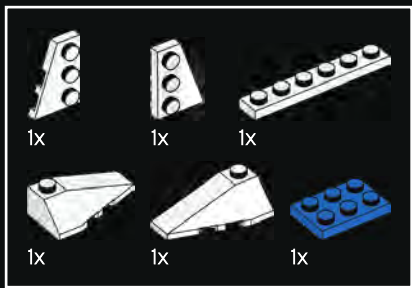


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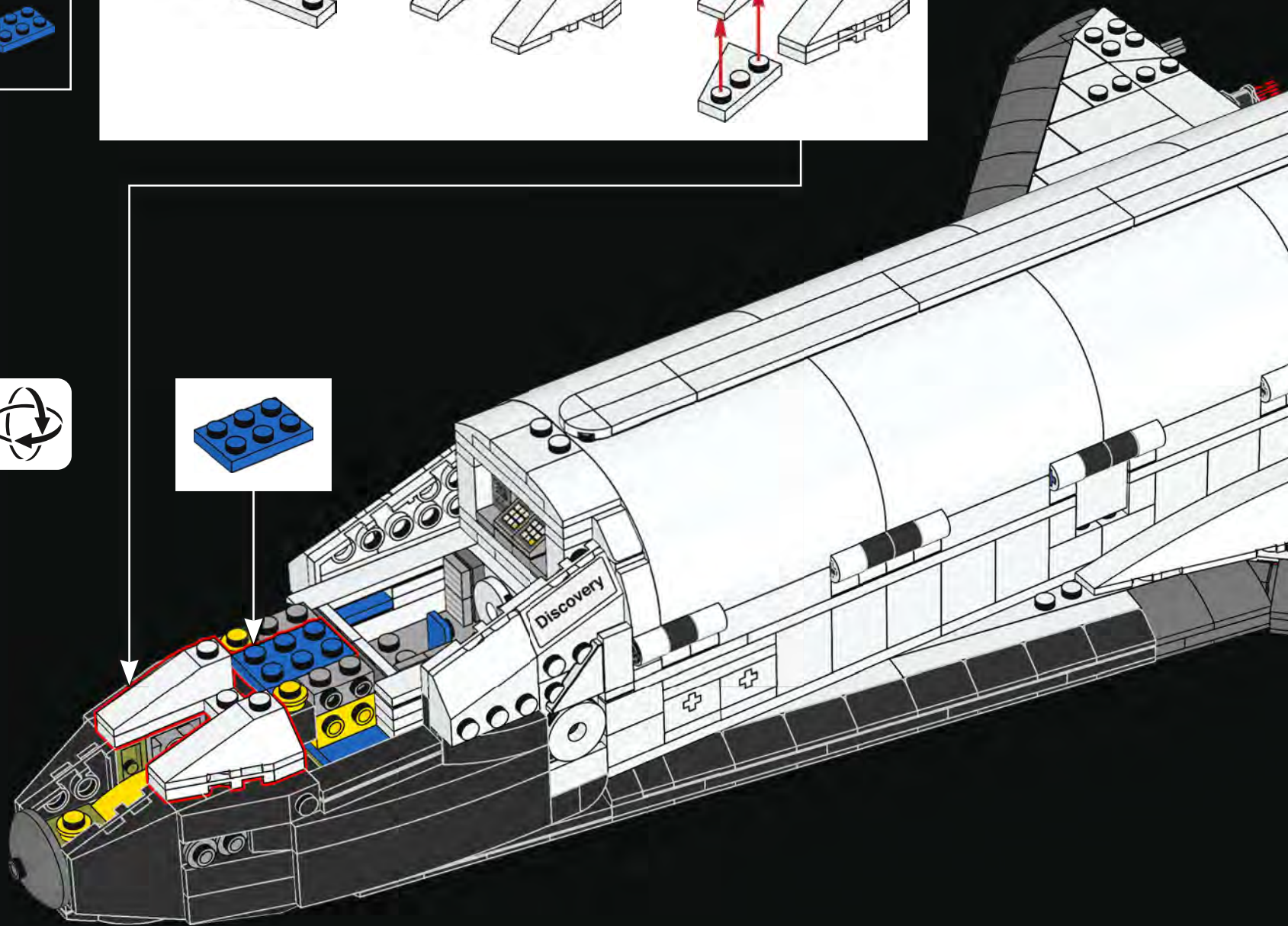
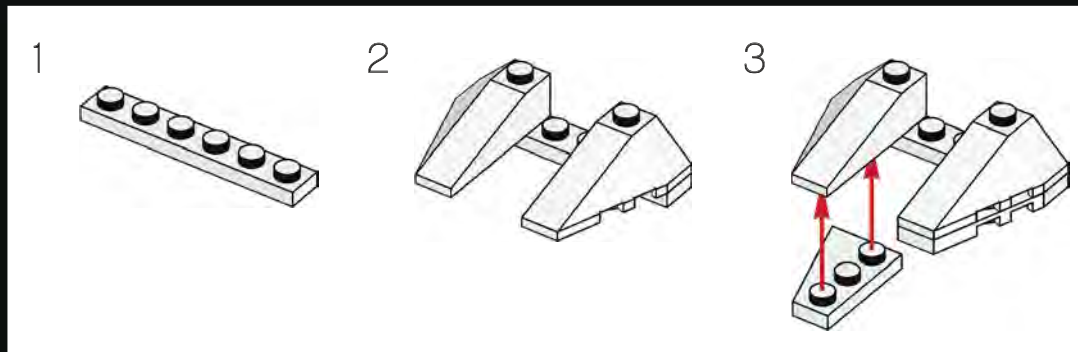


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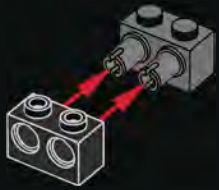


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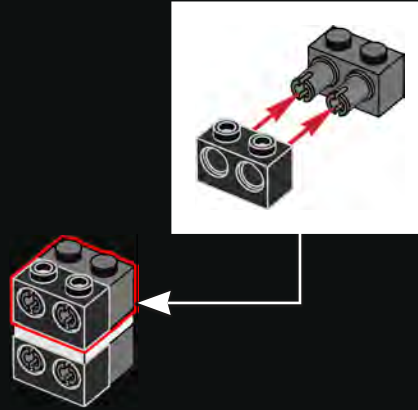
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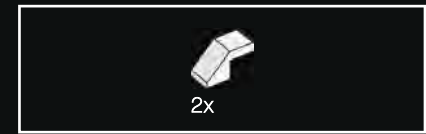
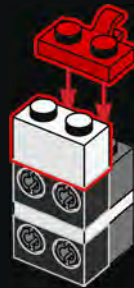
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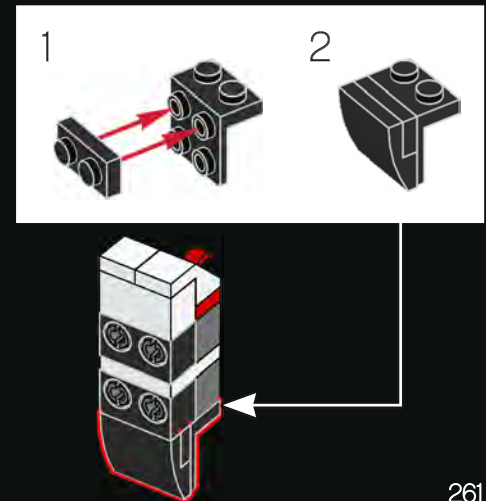
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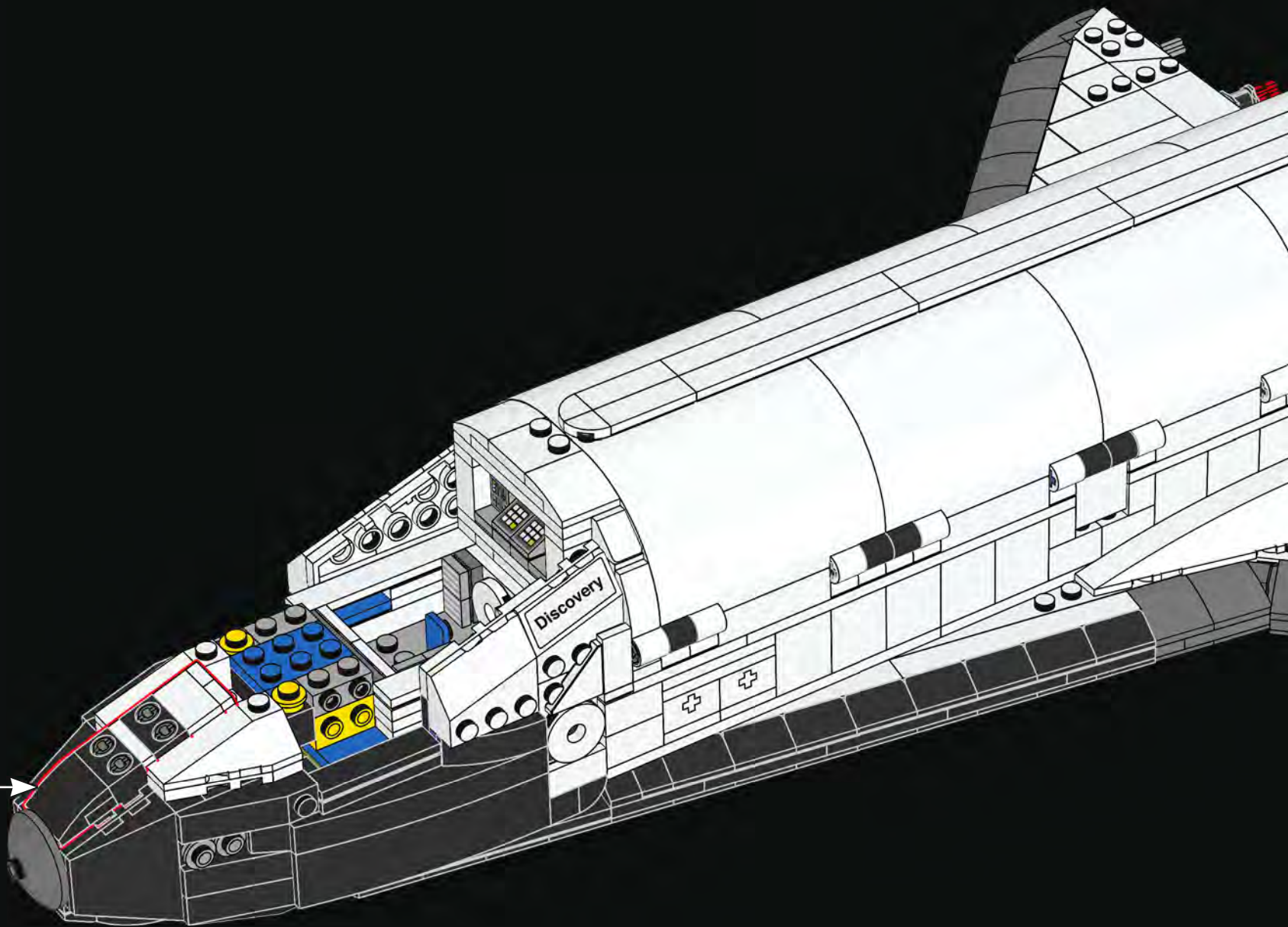
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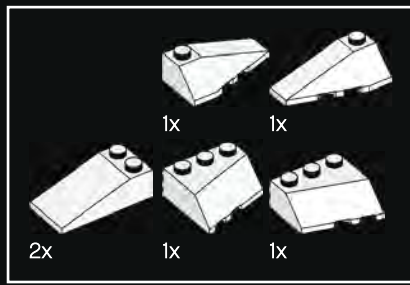


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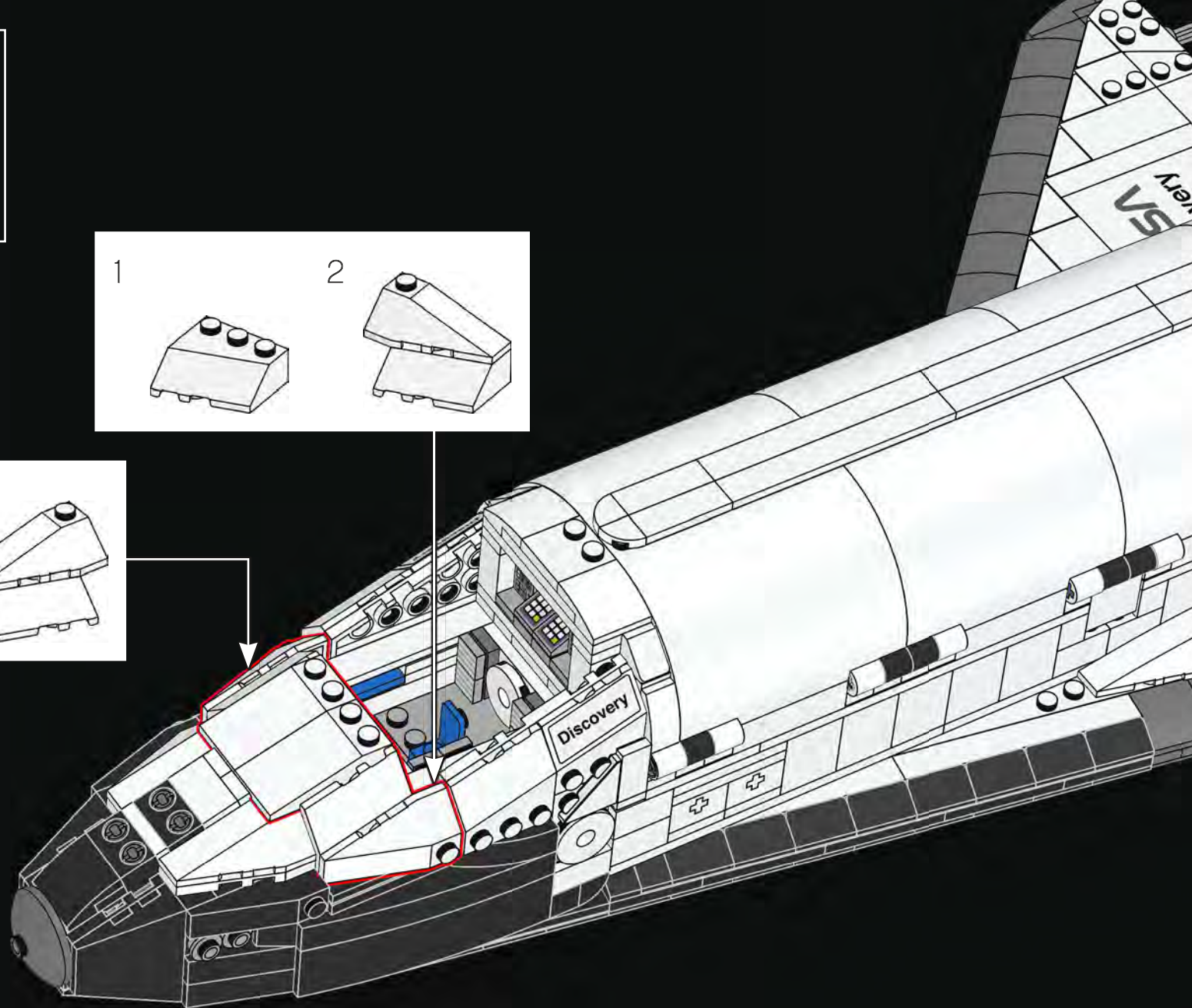
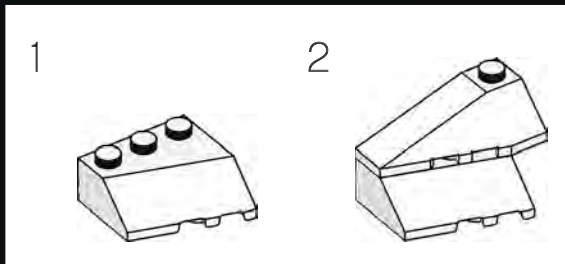
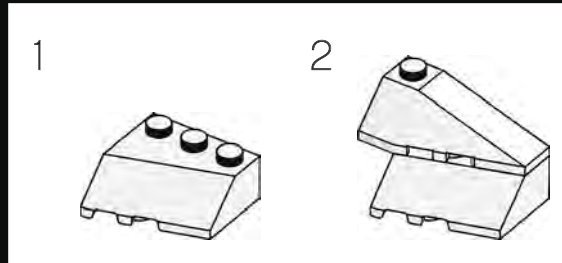


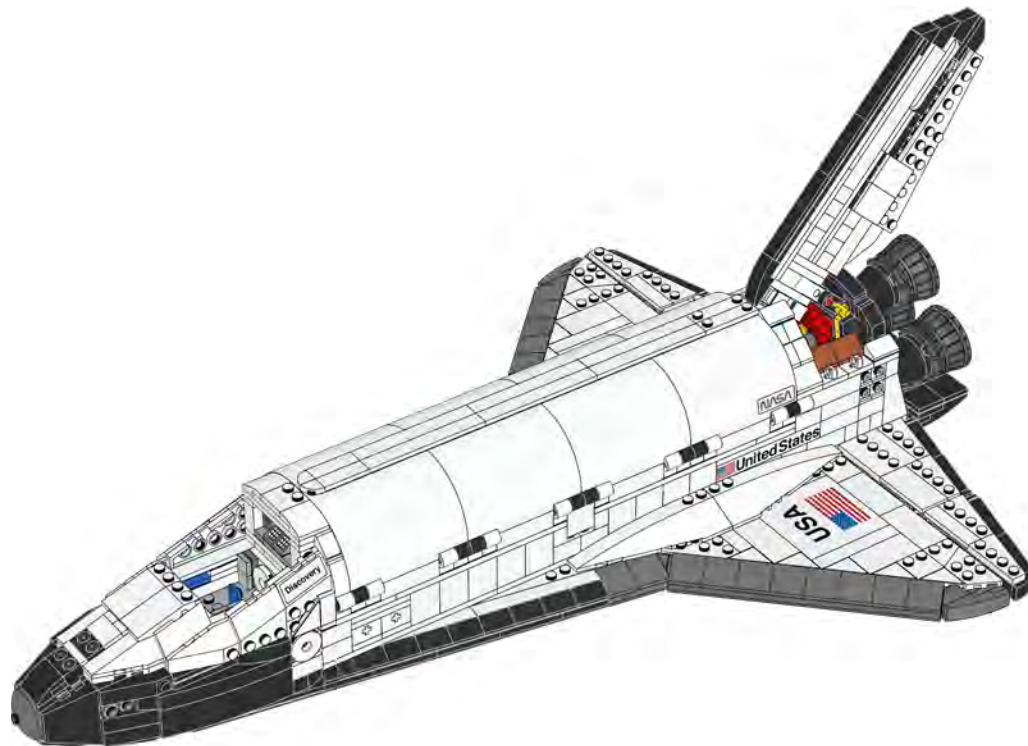
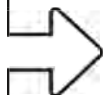
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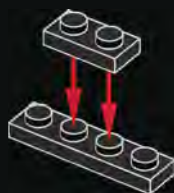




1x

1x

365



2x

366

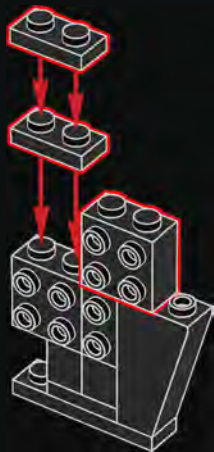




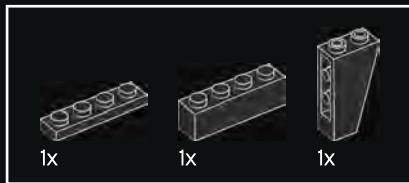
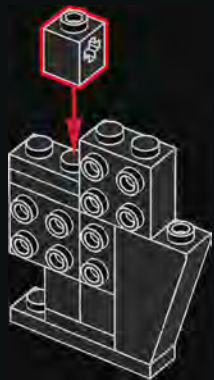
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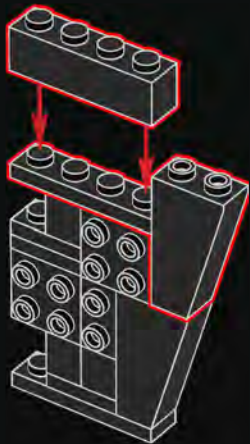
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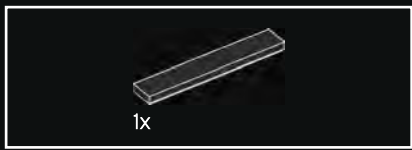


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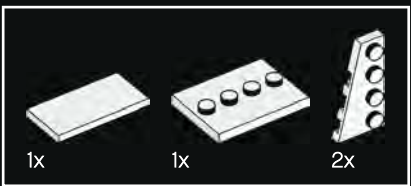


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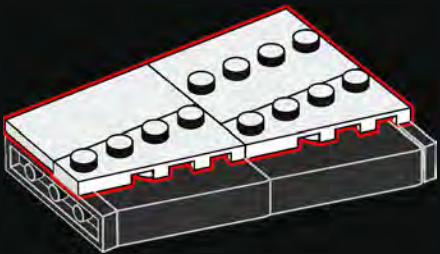




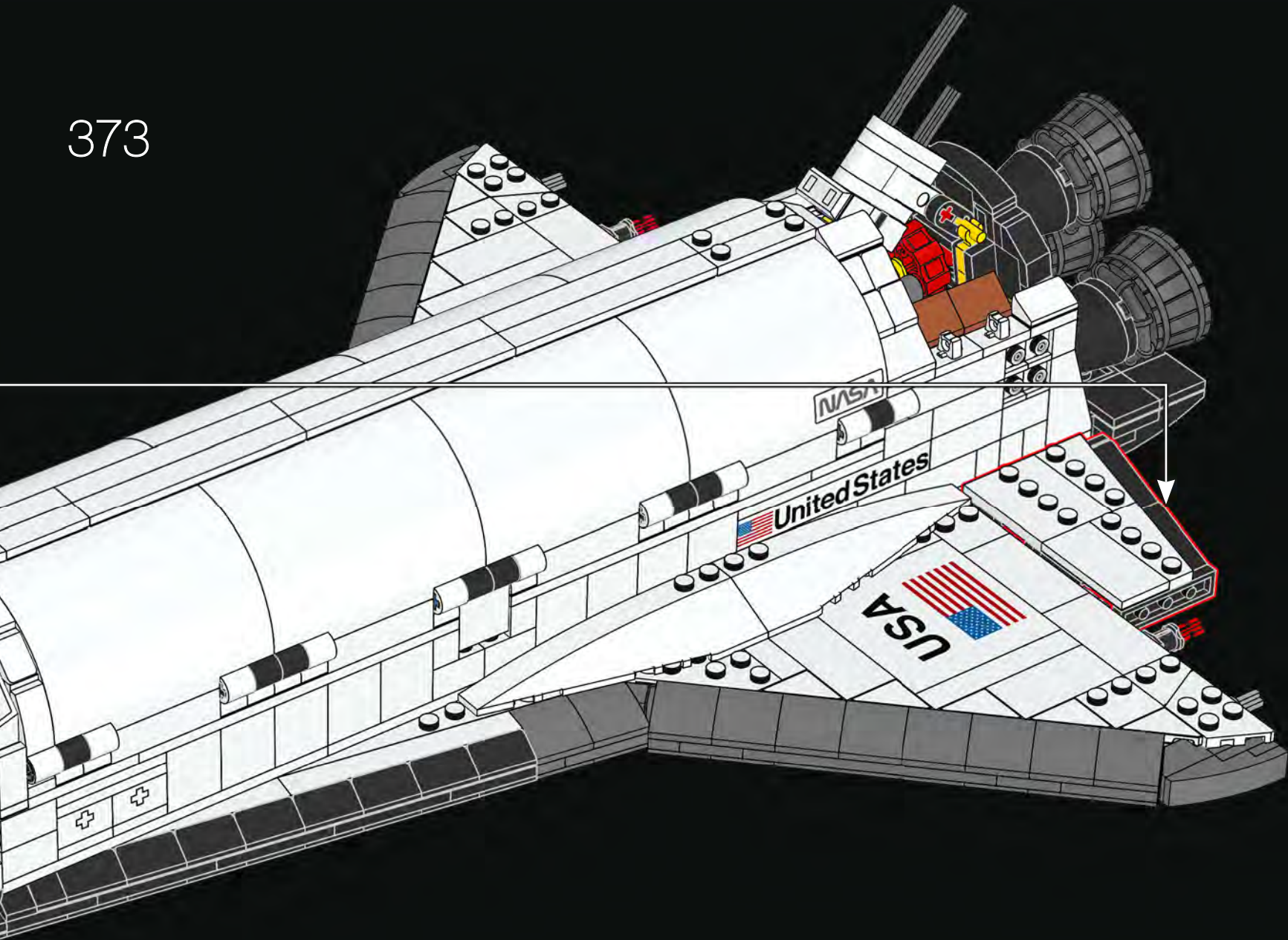
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372



373





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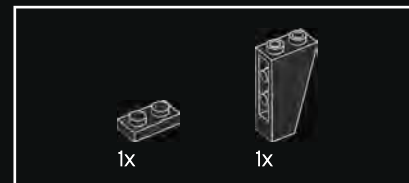
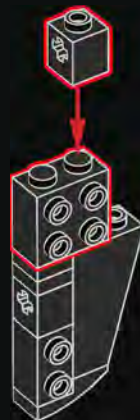
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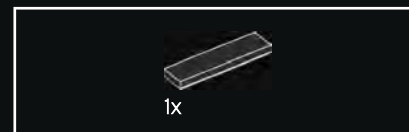
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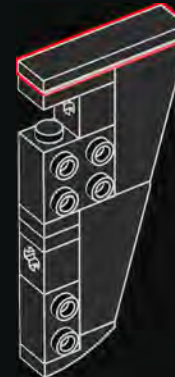
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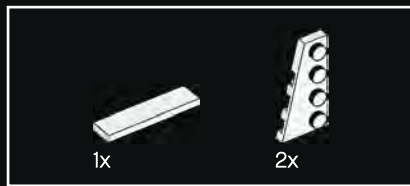


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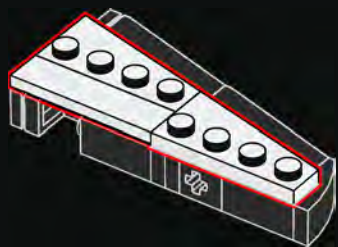


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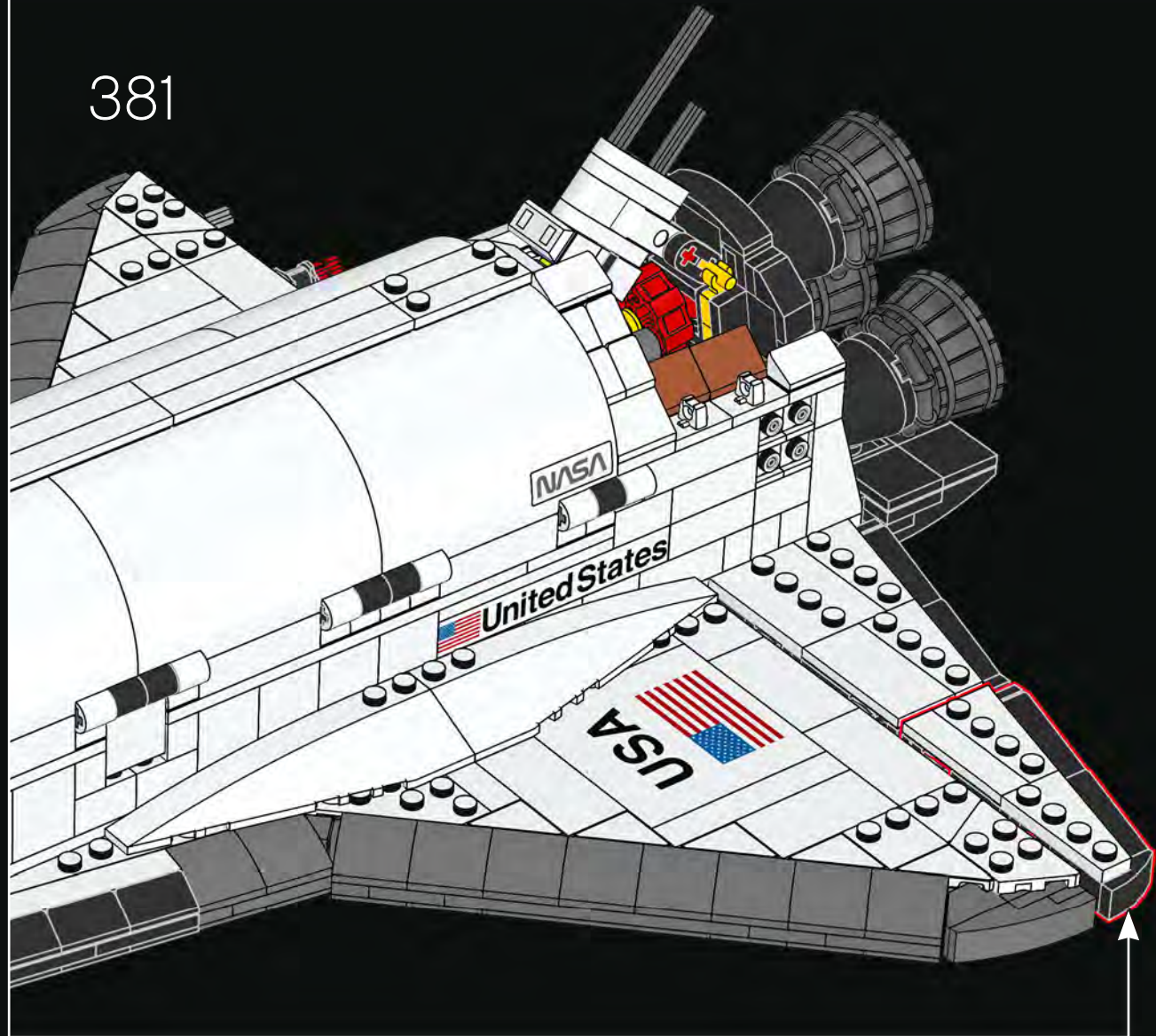


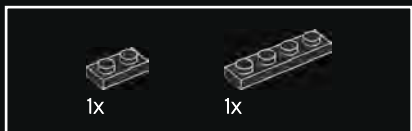


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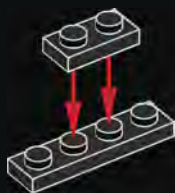


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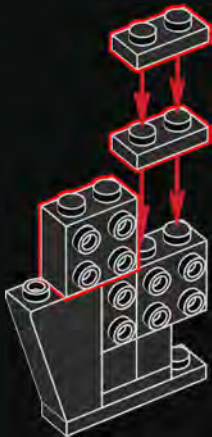
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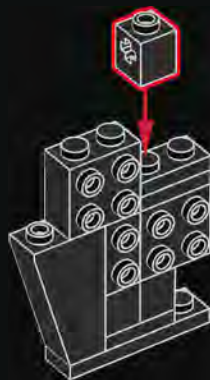


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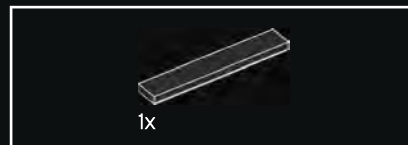
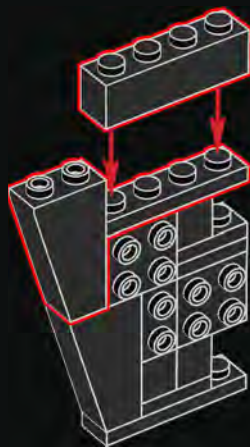




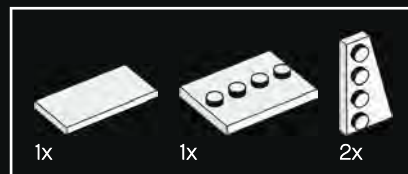
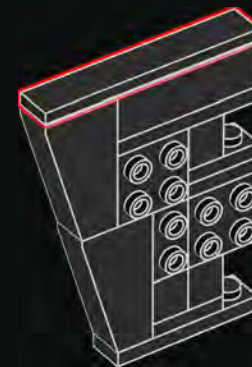
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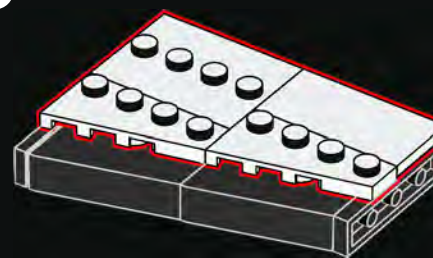
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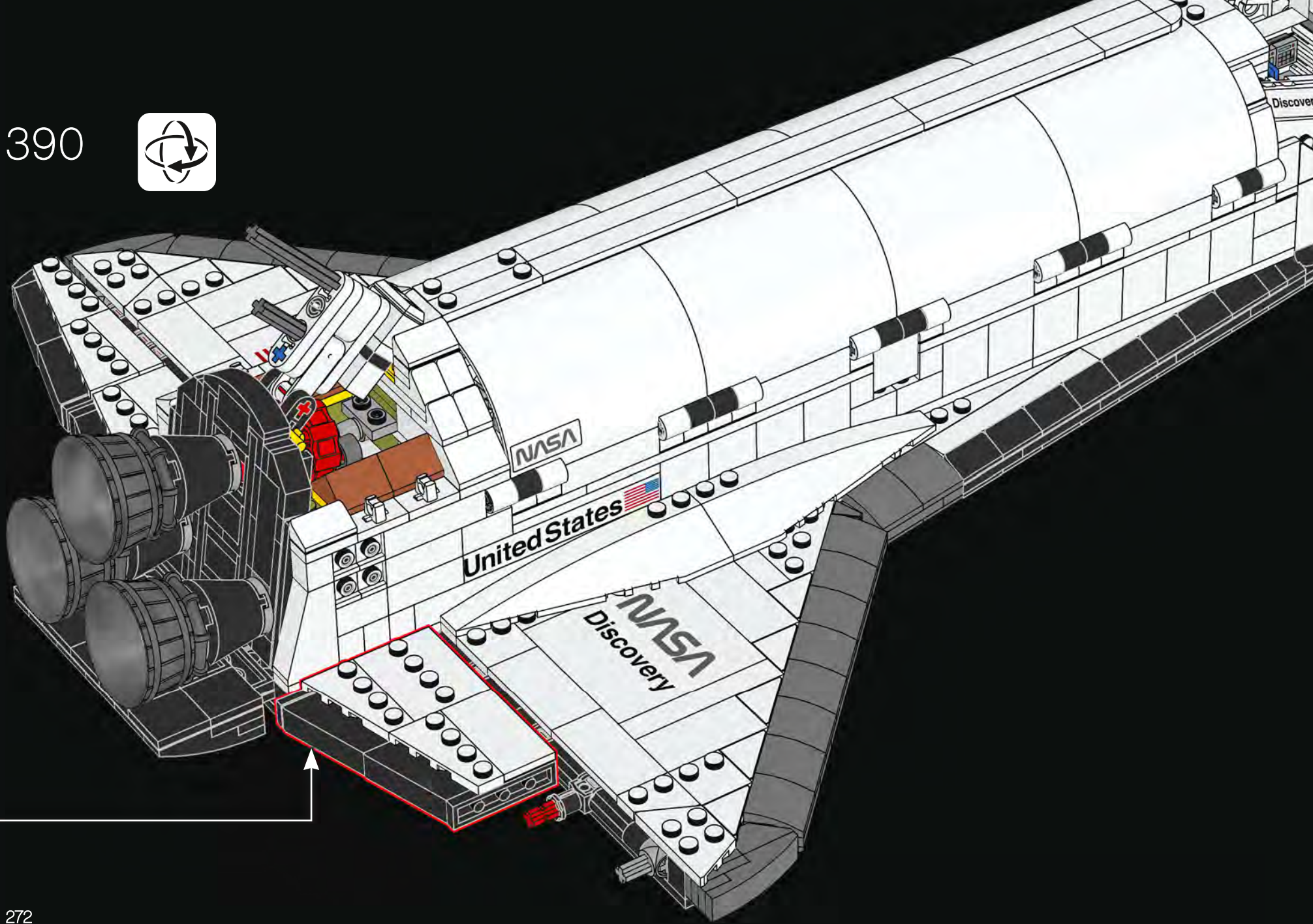
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389



390





391



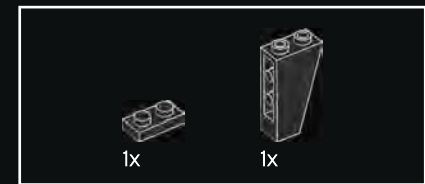
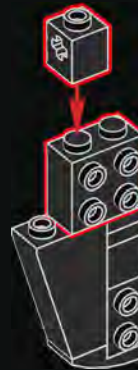
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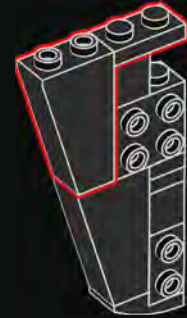
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394



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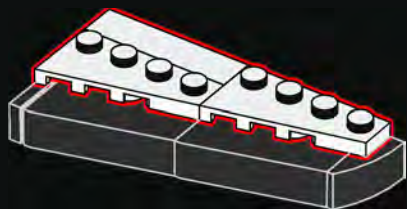


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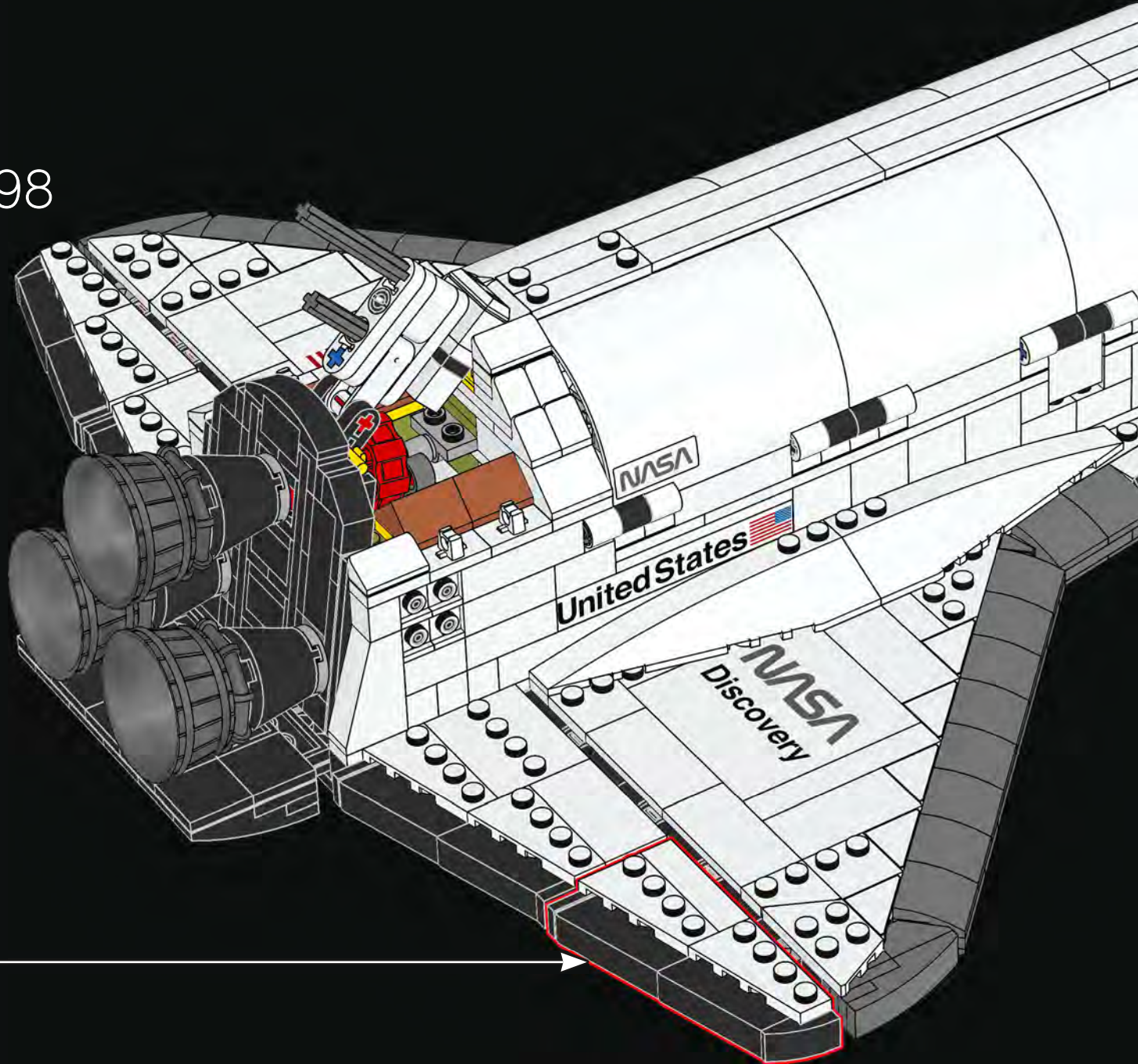


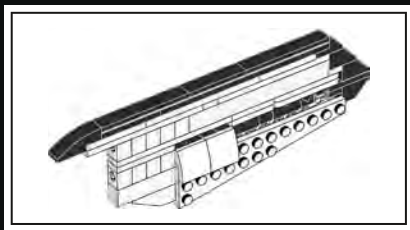


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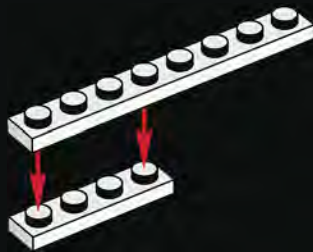


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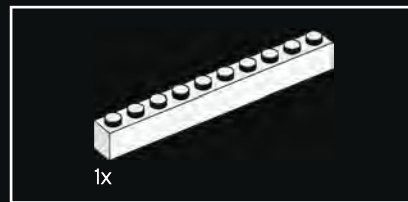
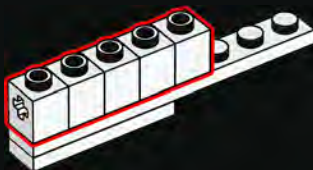




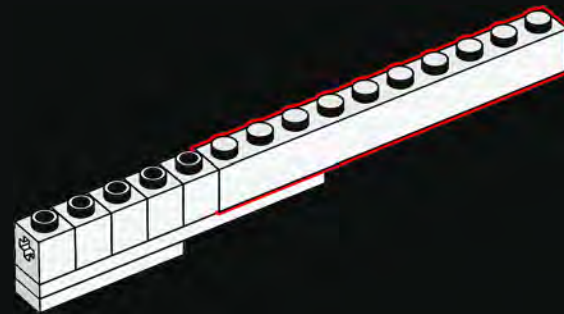
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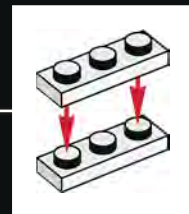
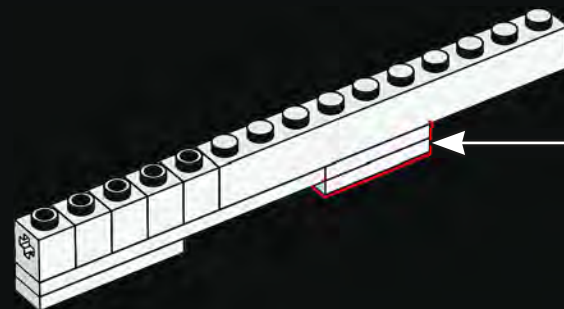
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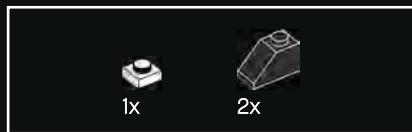
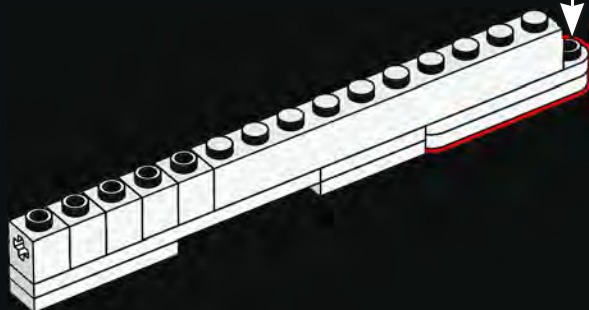
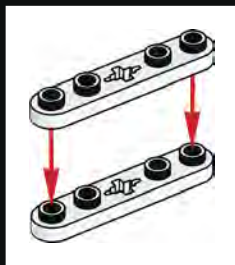


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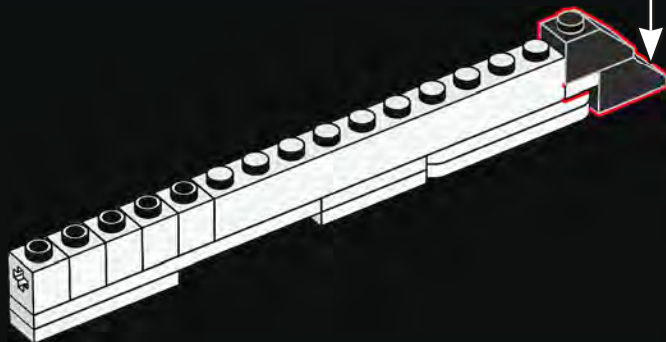
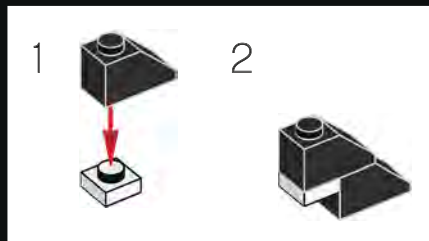




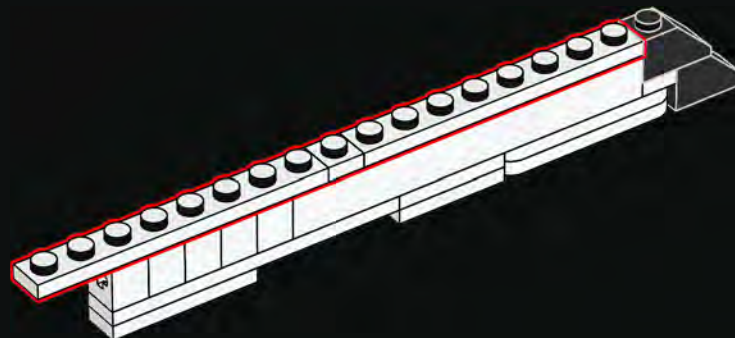
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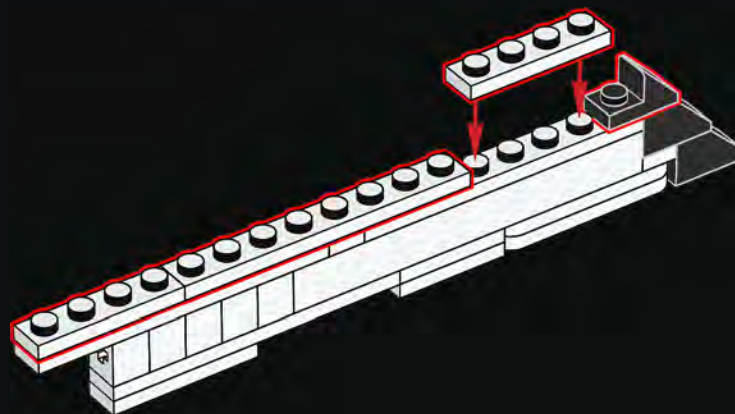
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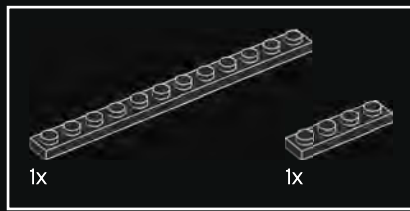


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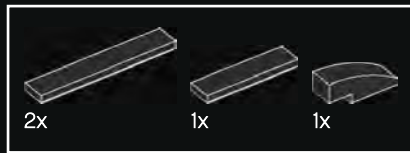
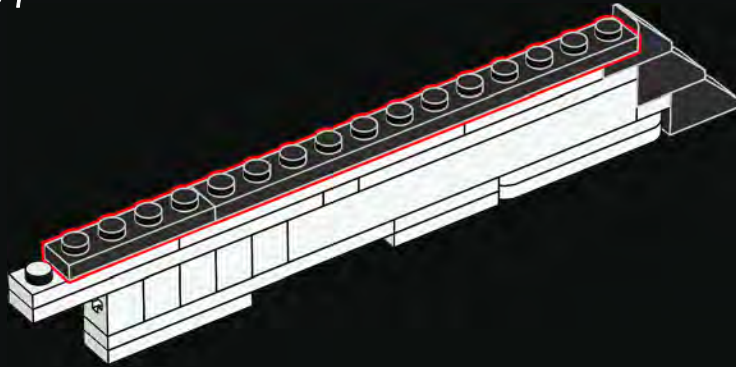


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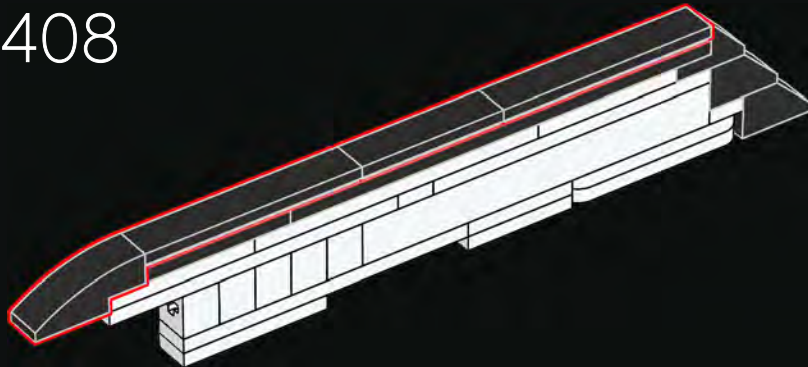




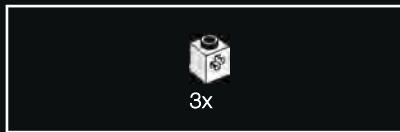
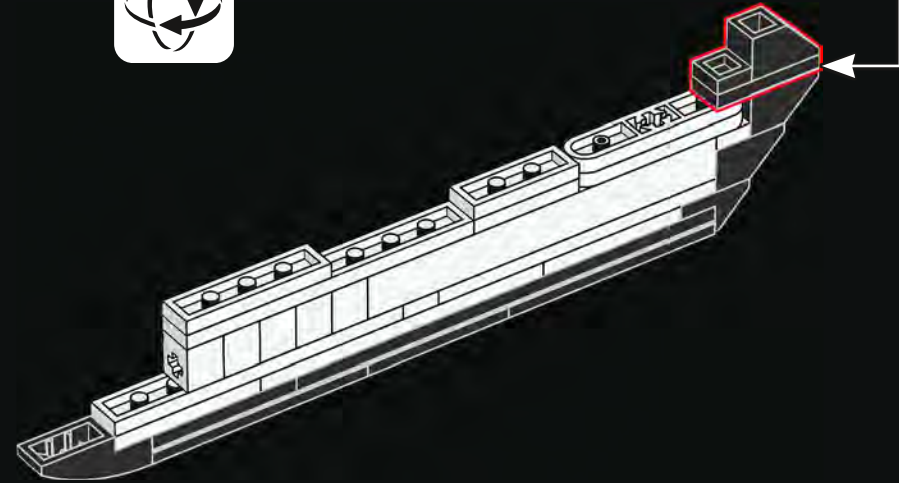
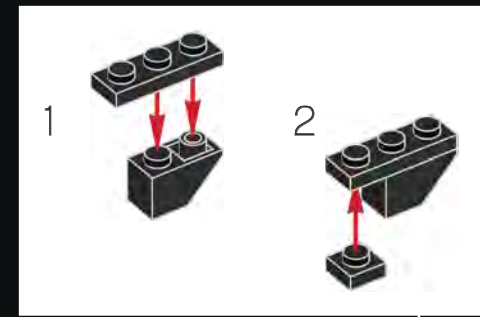
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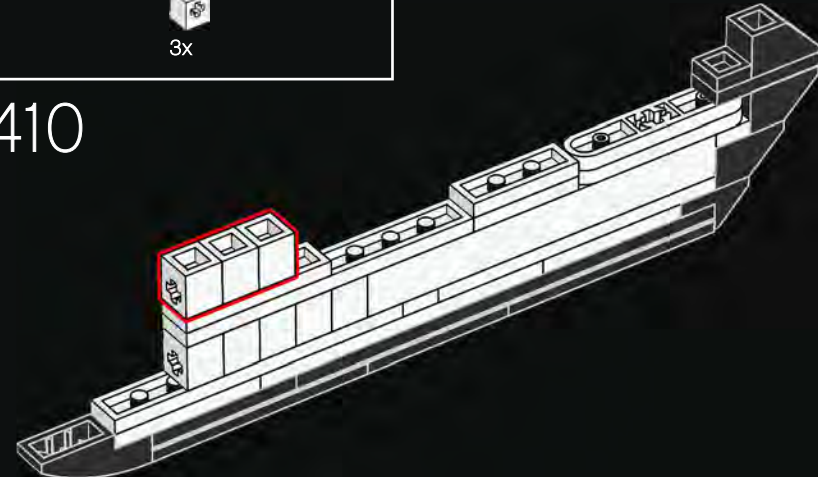
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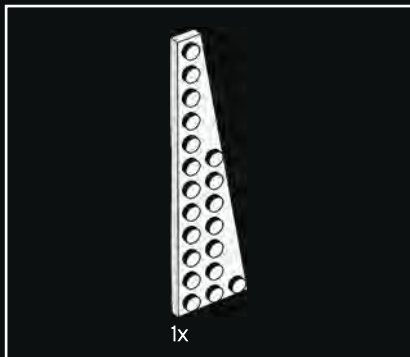
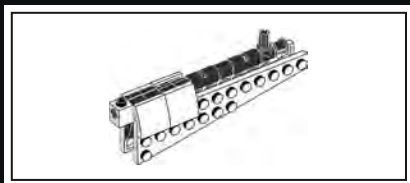


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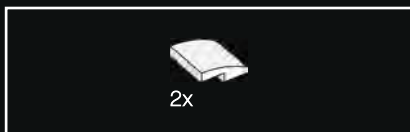


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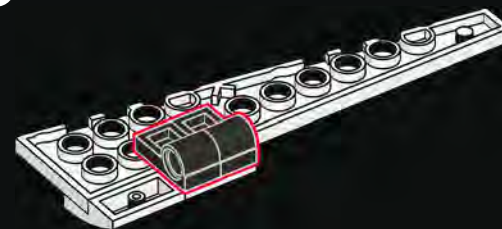
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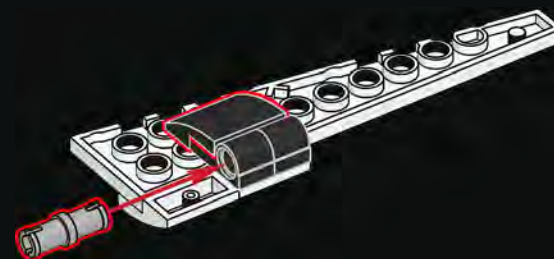
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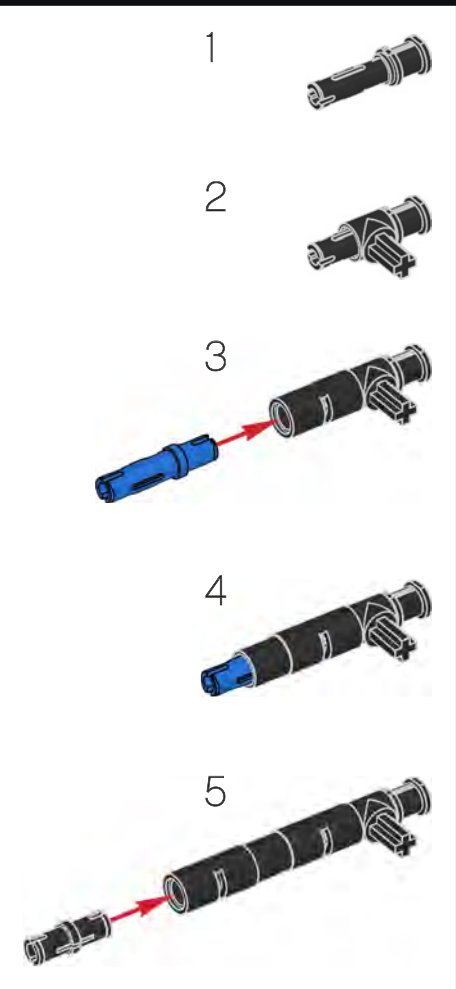
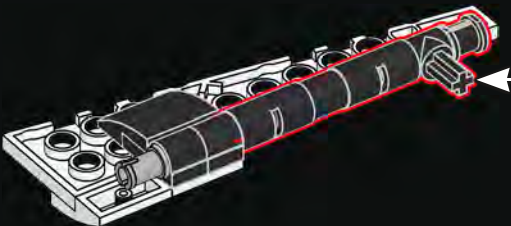


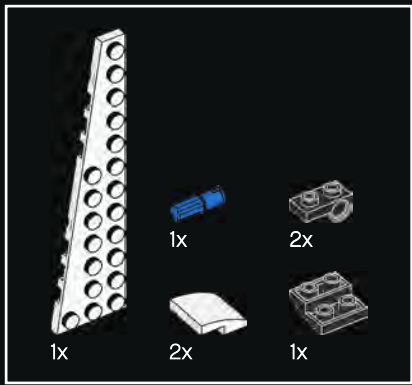
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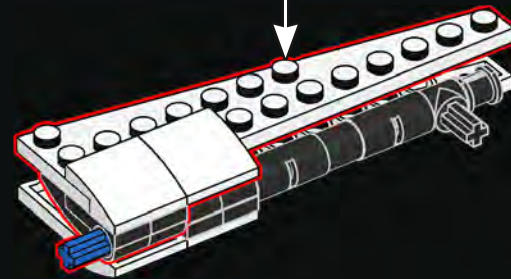
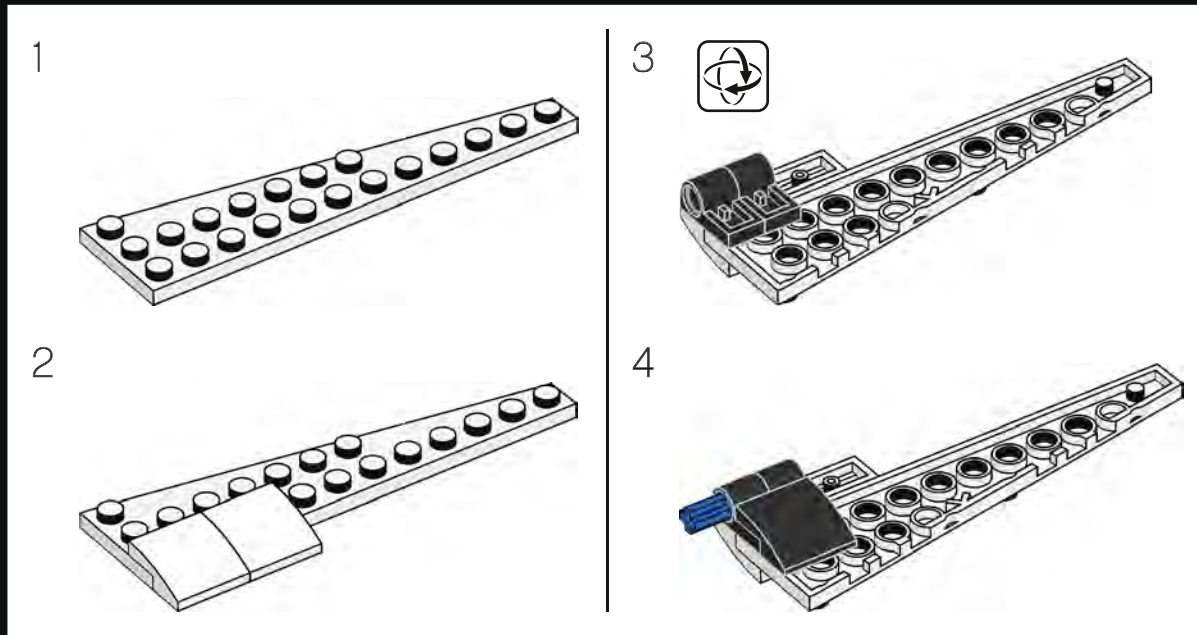


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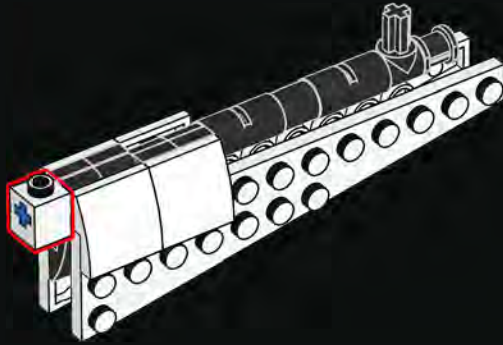


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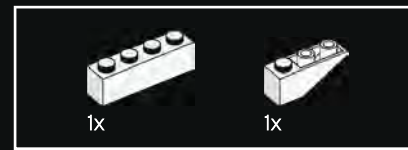
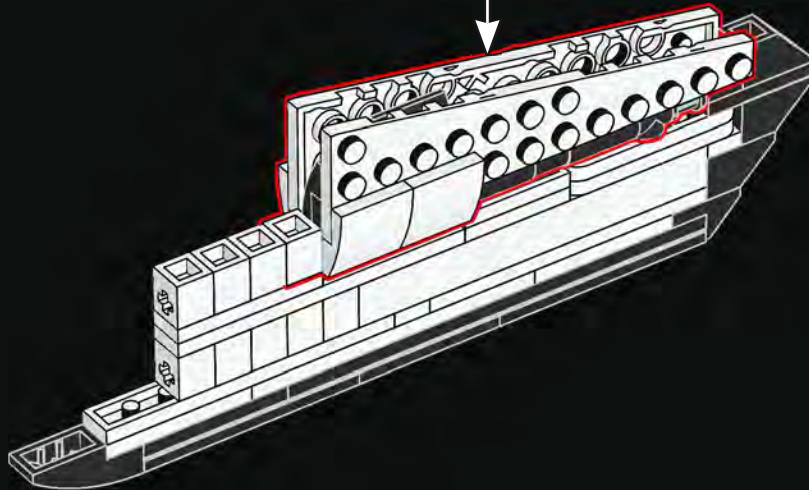




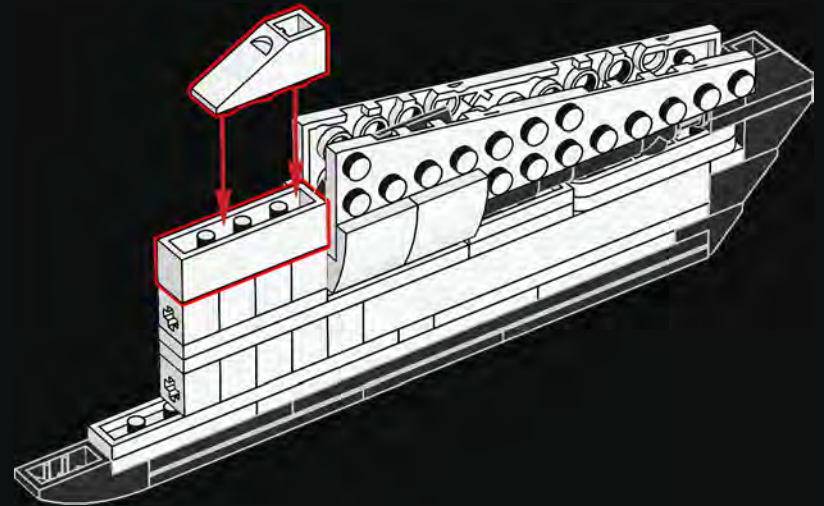
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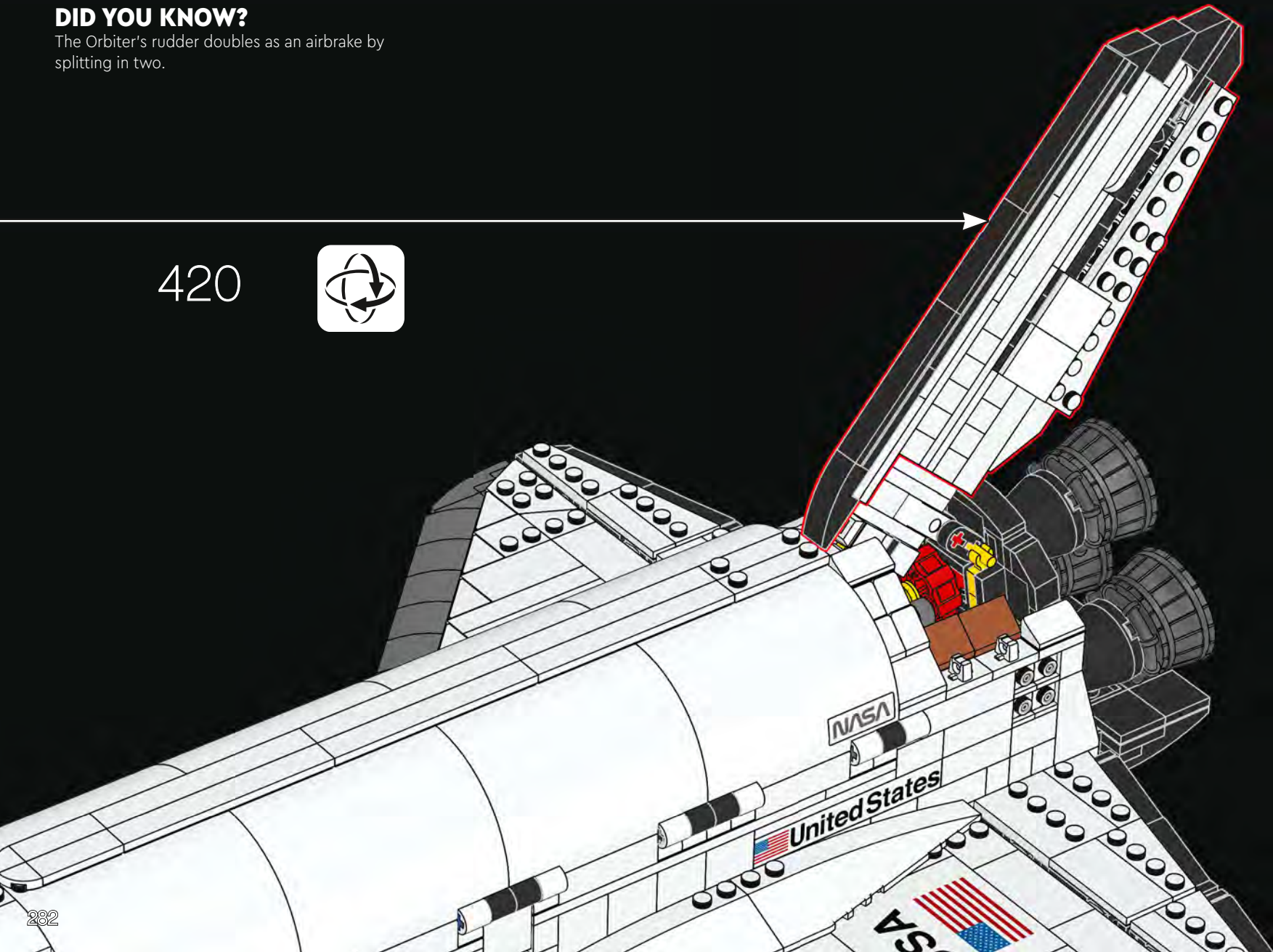
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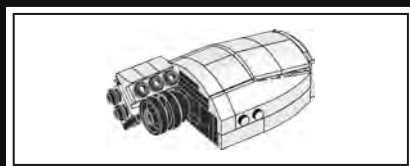
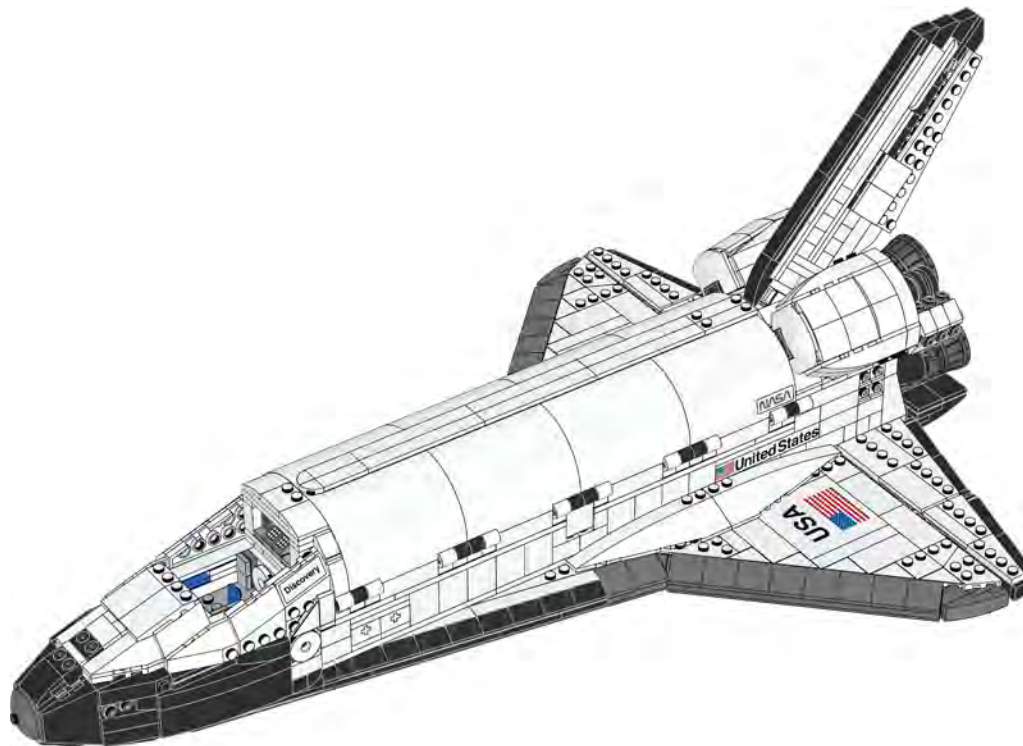
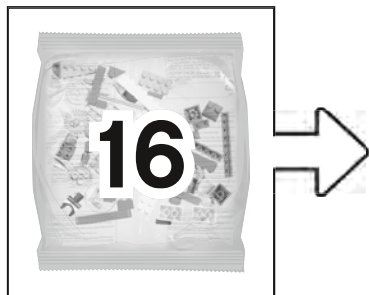


DID YOU KNOW?

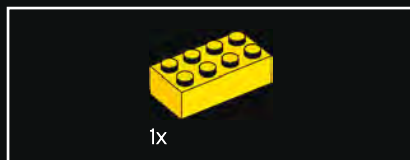
The Orbiter's rudder doubles as an airbrake by splitting in two.

420

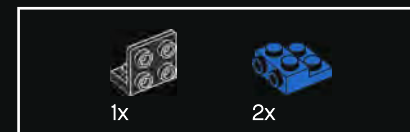




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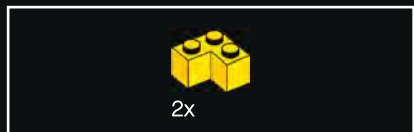


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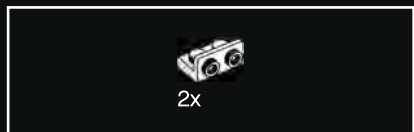
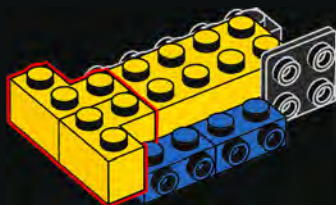


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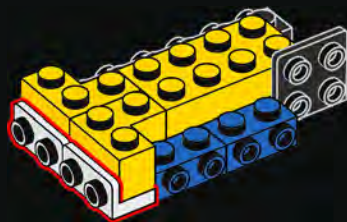




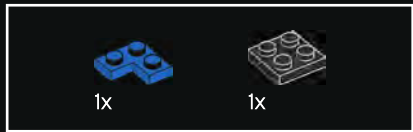
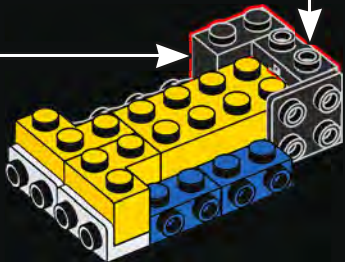
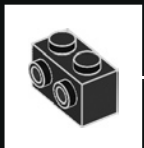
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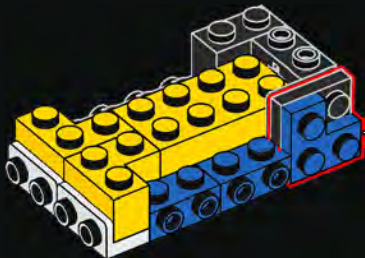
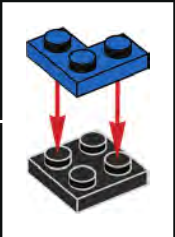
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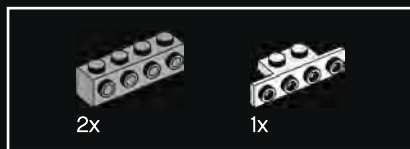


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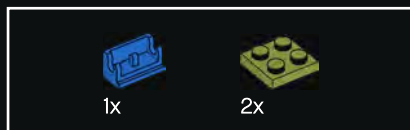
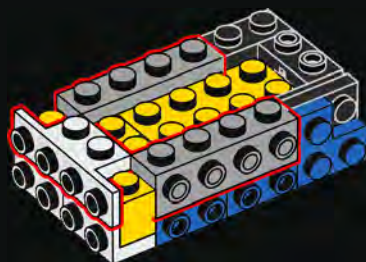


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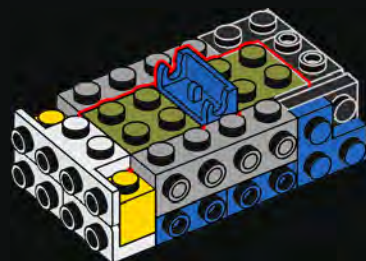




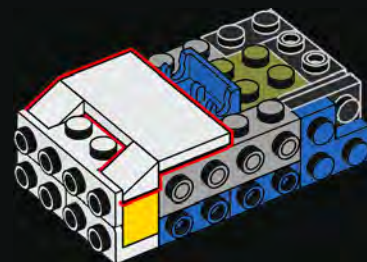
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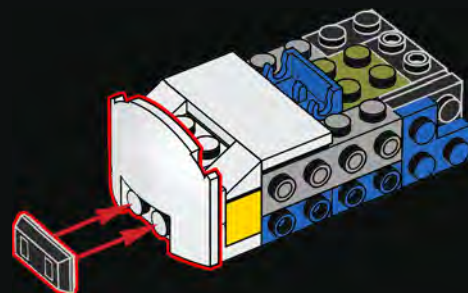
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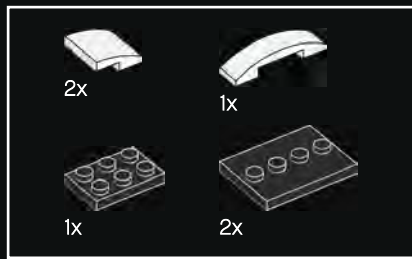


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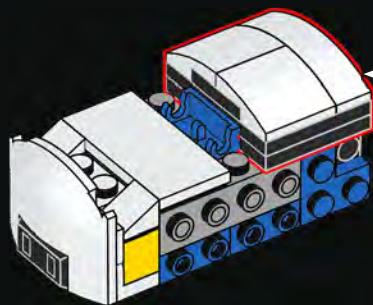
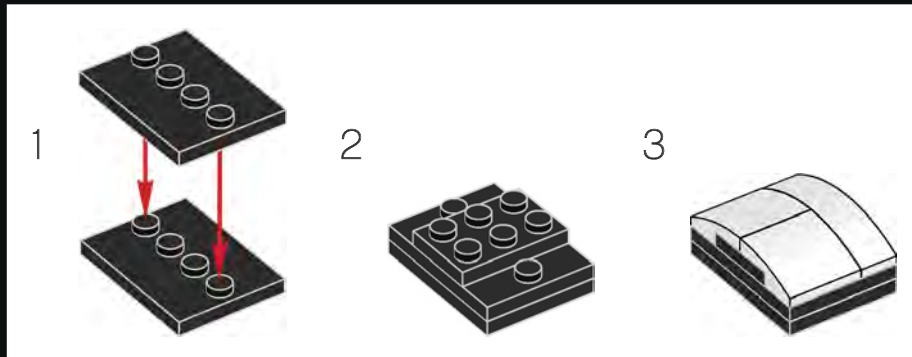


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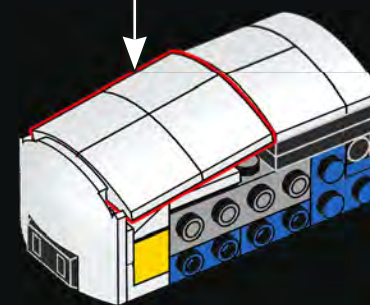
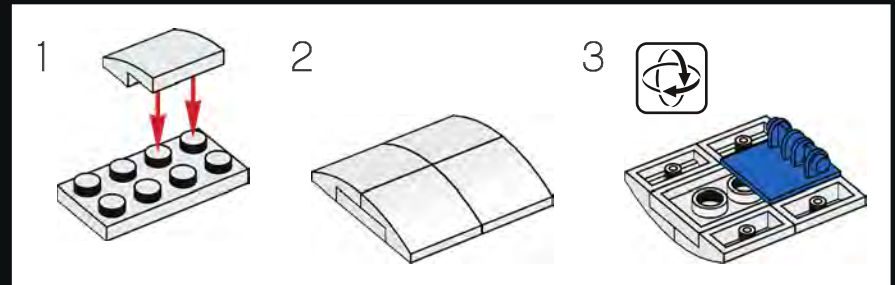




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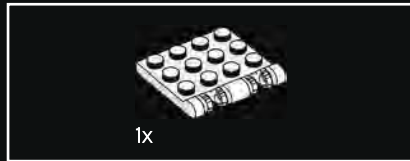
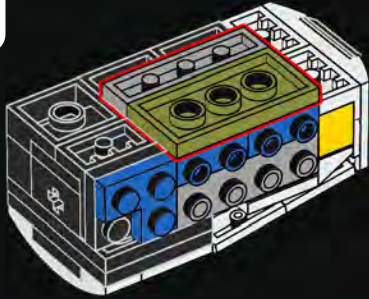


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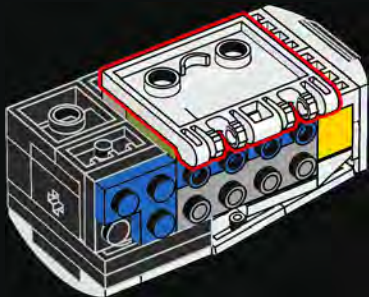




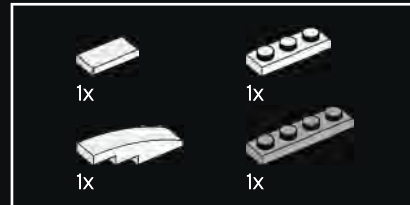
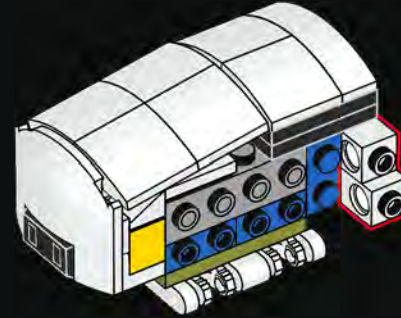
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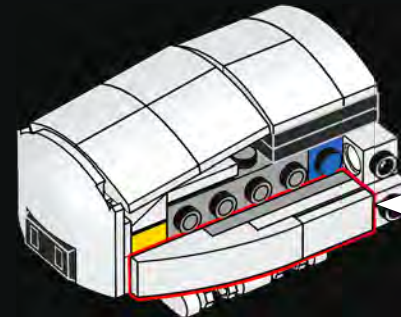
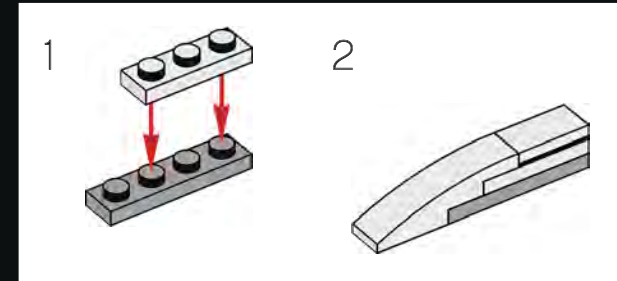
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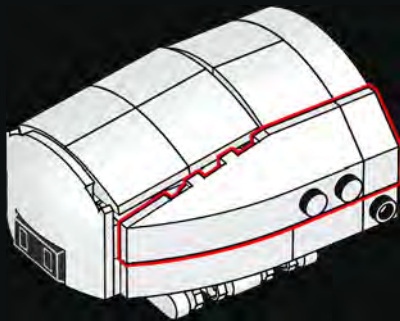


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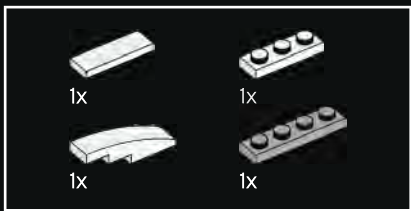
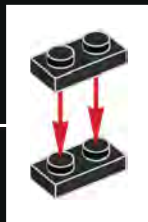
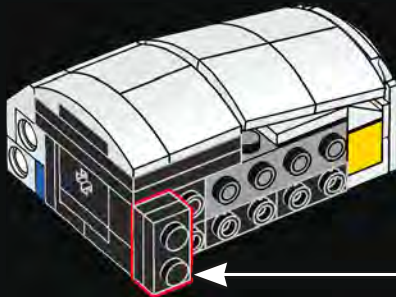




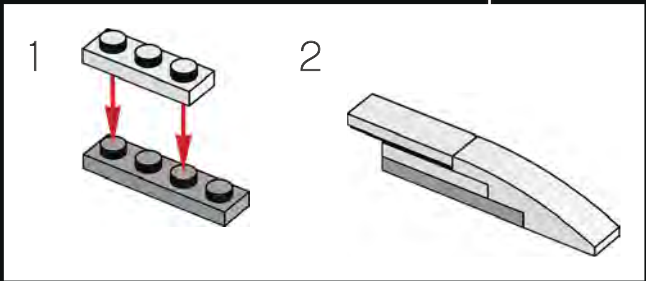
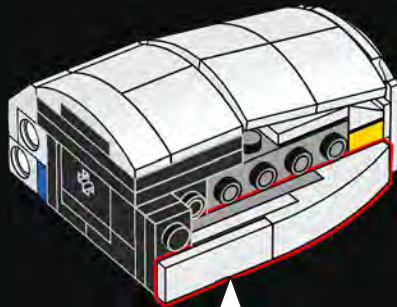
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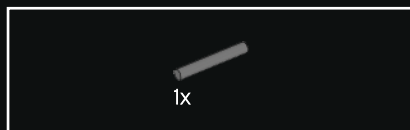


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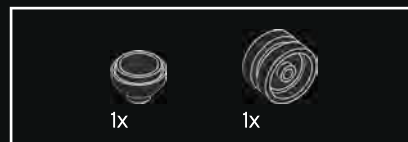
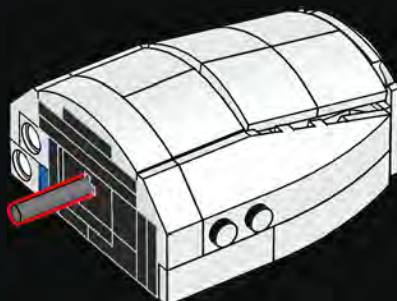




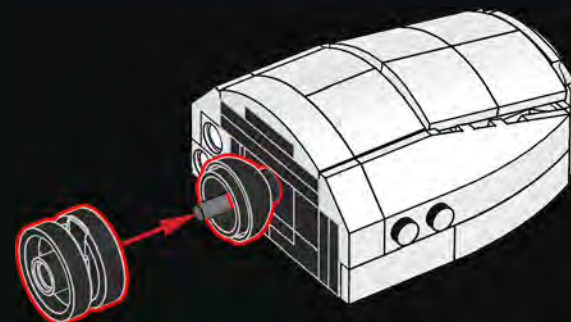
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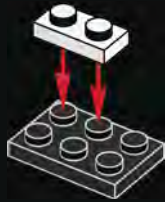


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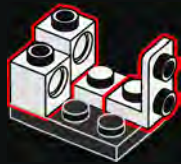




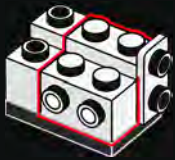
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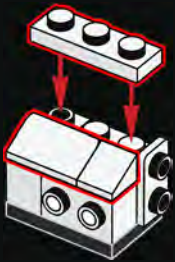
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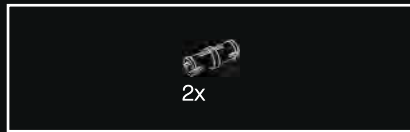


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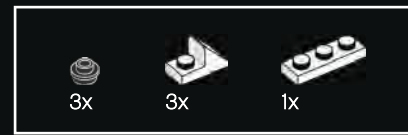
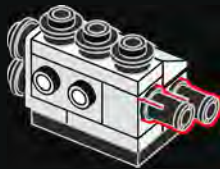




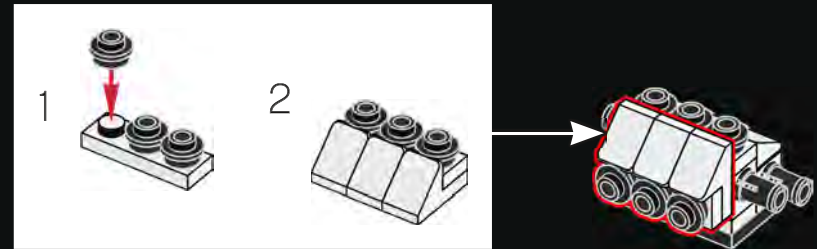
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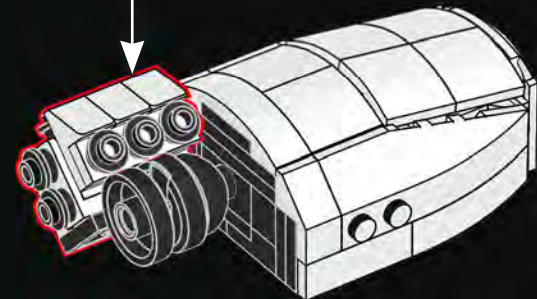
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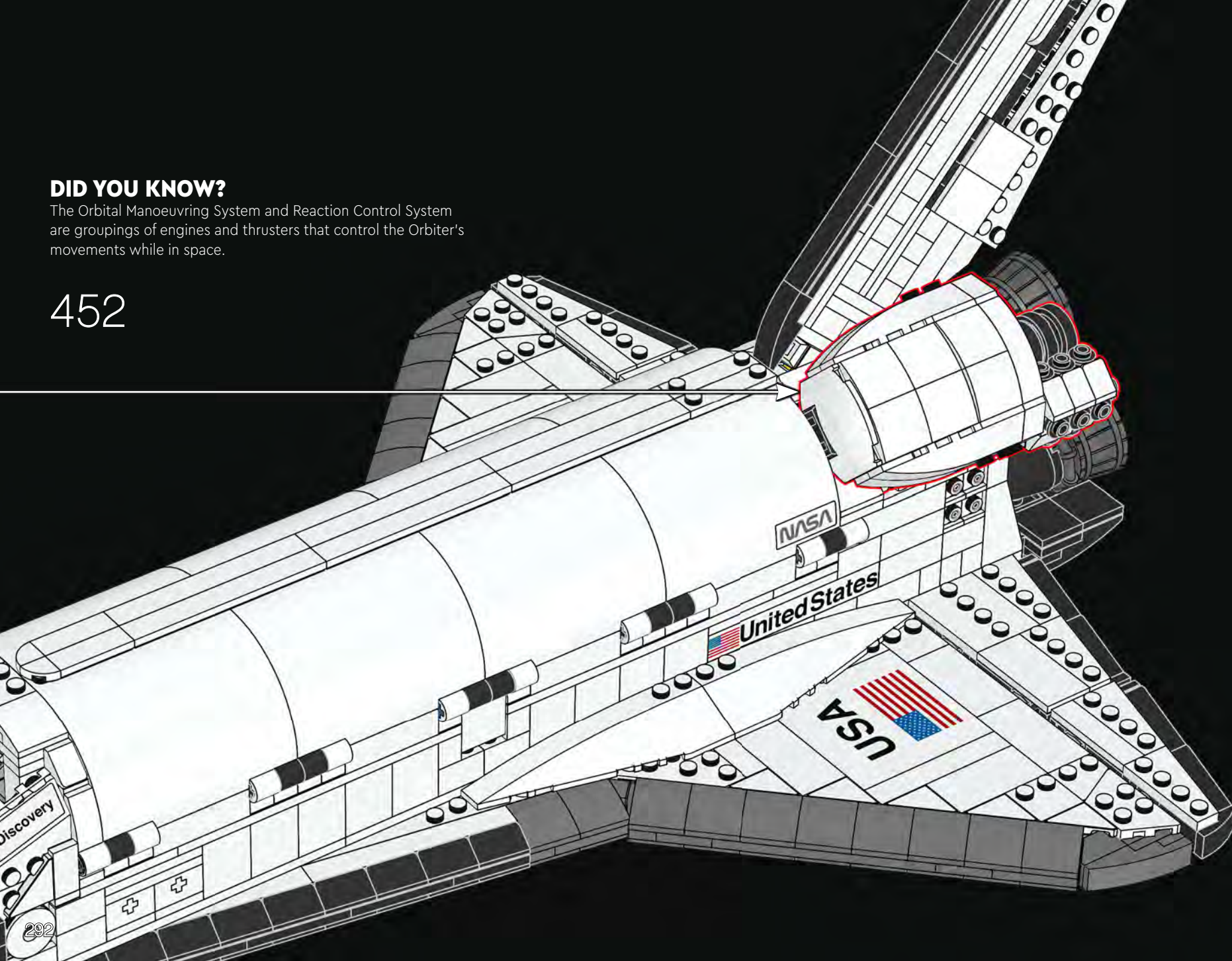
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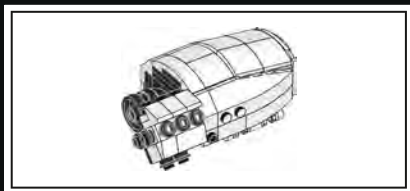


DID YOU KNOW?

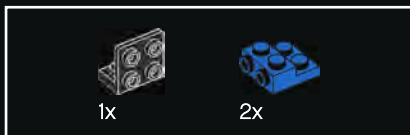
The Orbital Manoeuvring System and Reaction Control System are groupings of engines and thrusters that control the Orbiter's movements while in space.

452





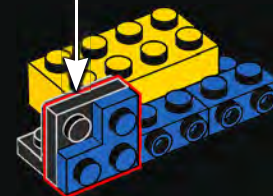
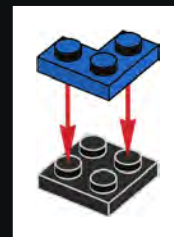
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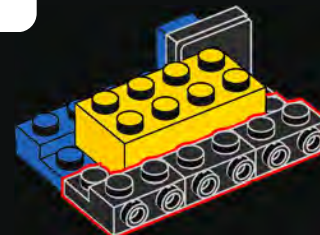
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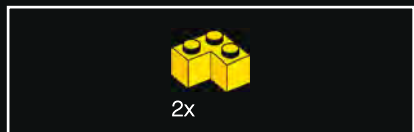


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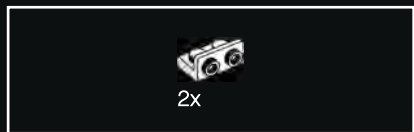


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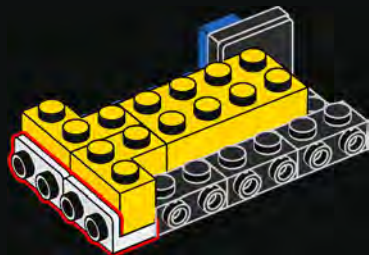




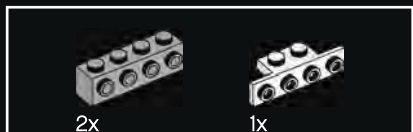
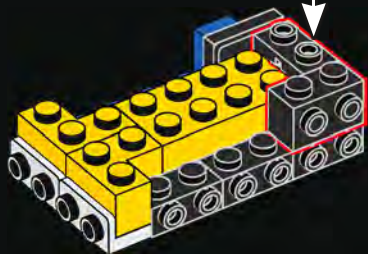
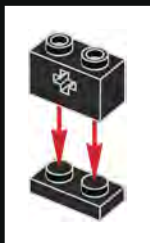
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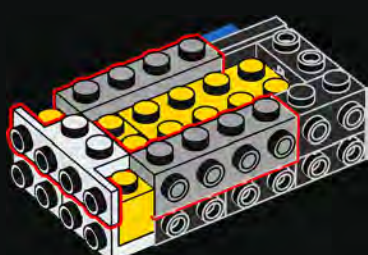
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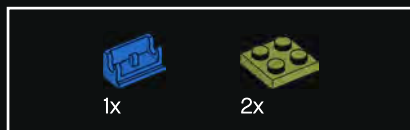


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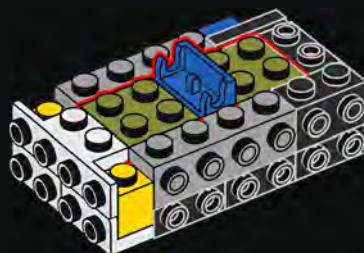


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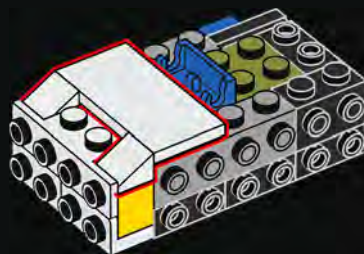




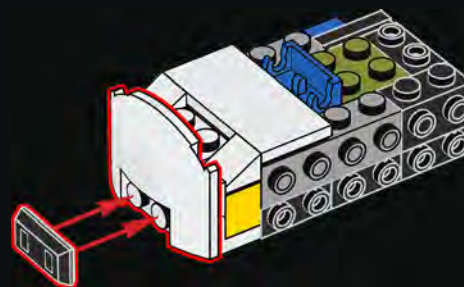
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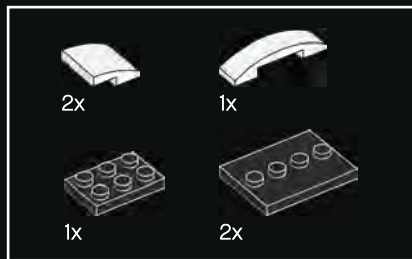


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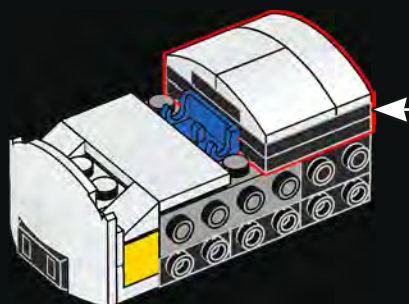
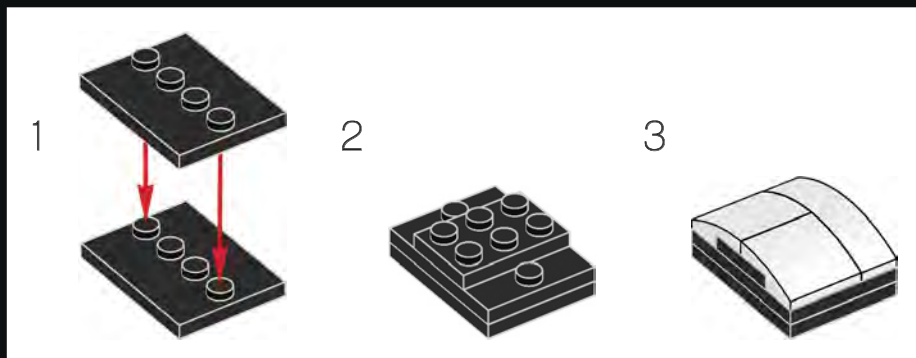


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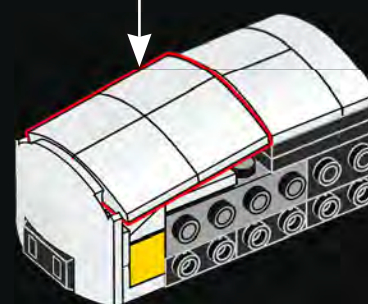
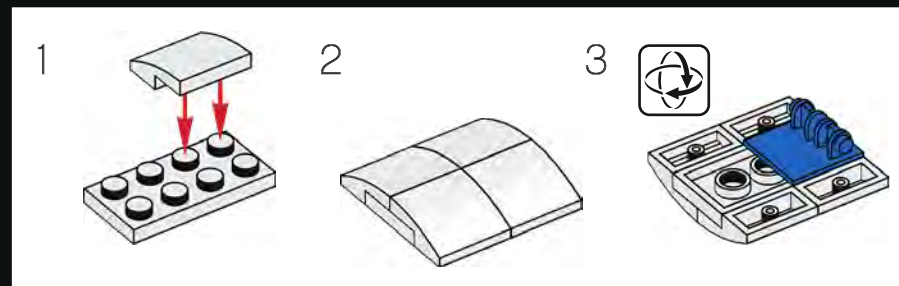




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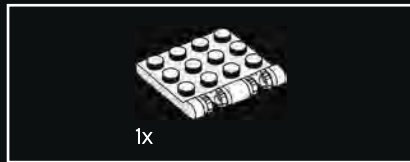
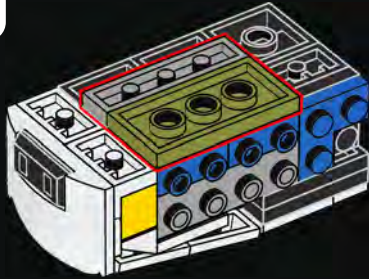


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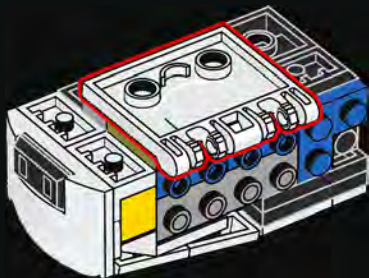




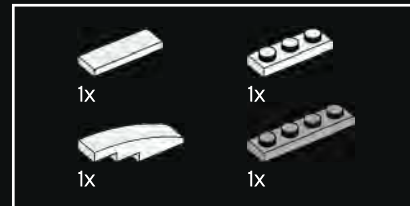
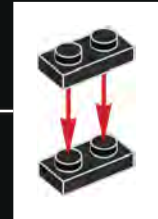
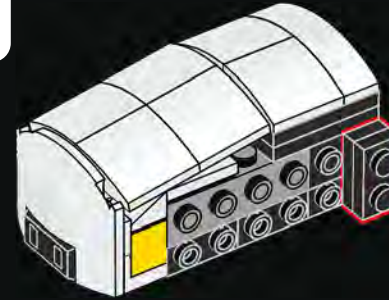
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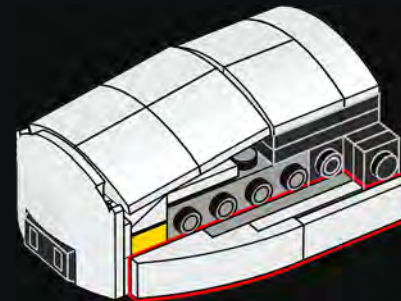
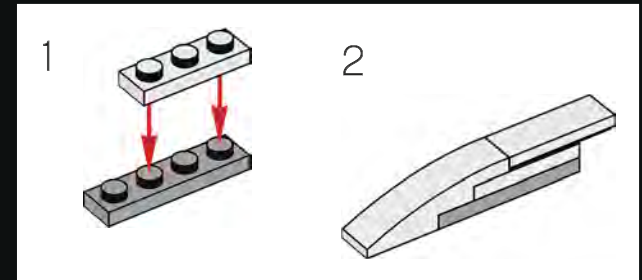
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468

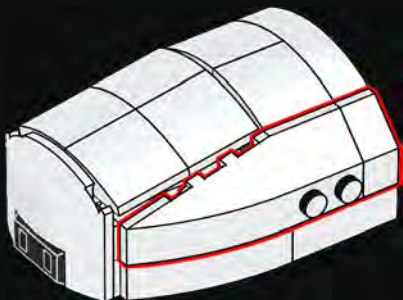


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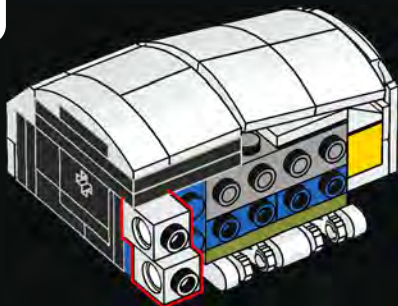




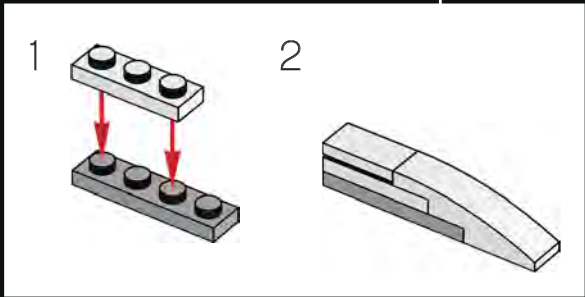
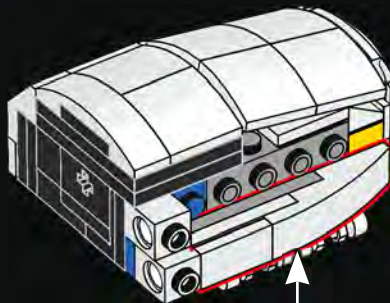
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471

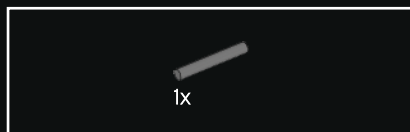
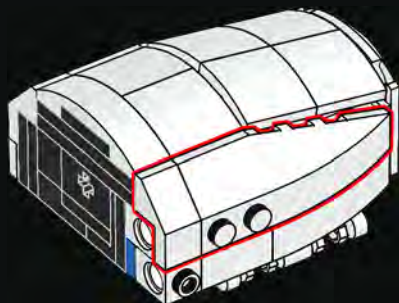


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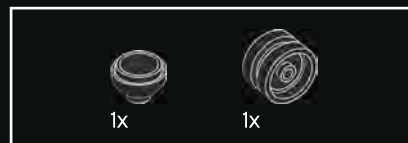
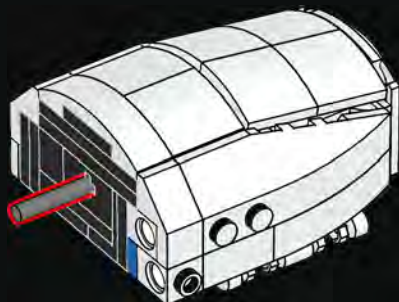




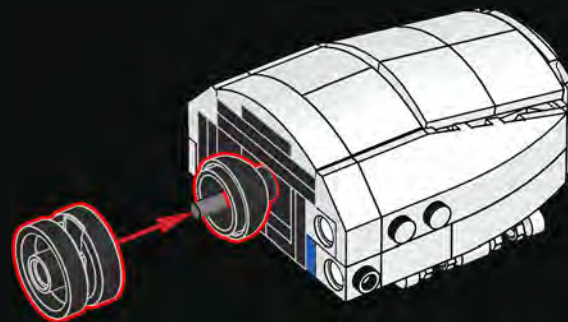
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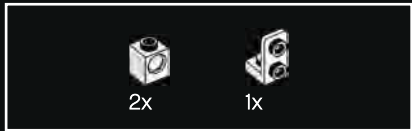


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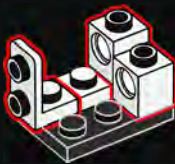




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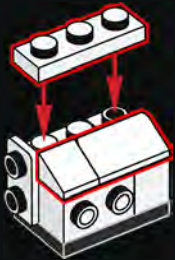
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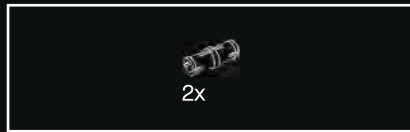


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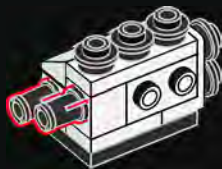




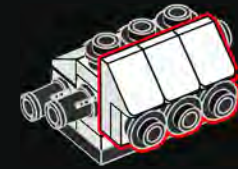
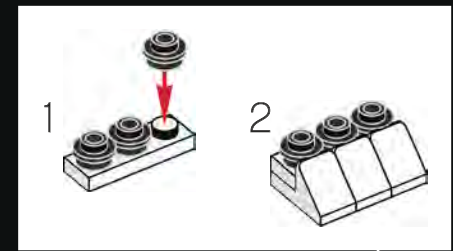
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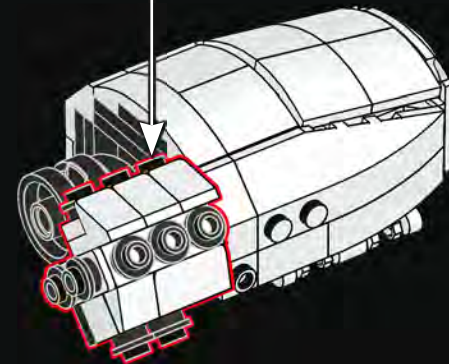
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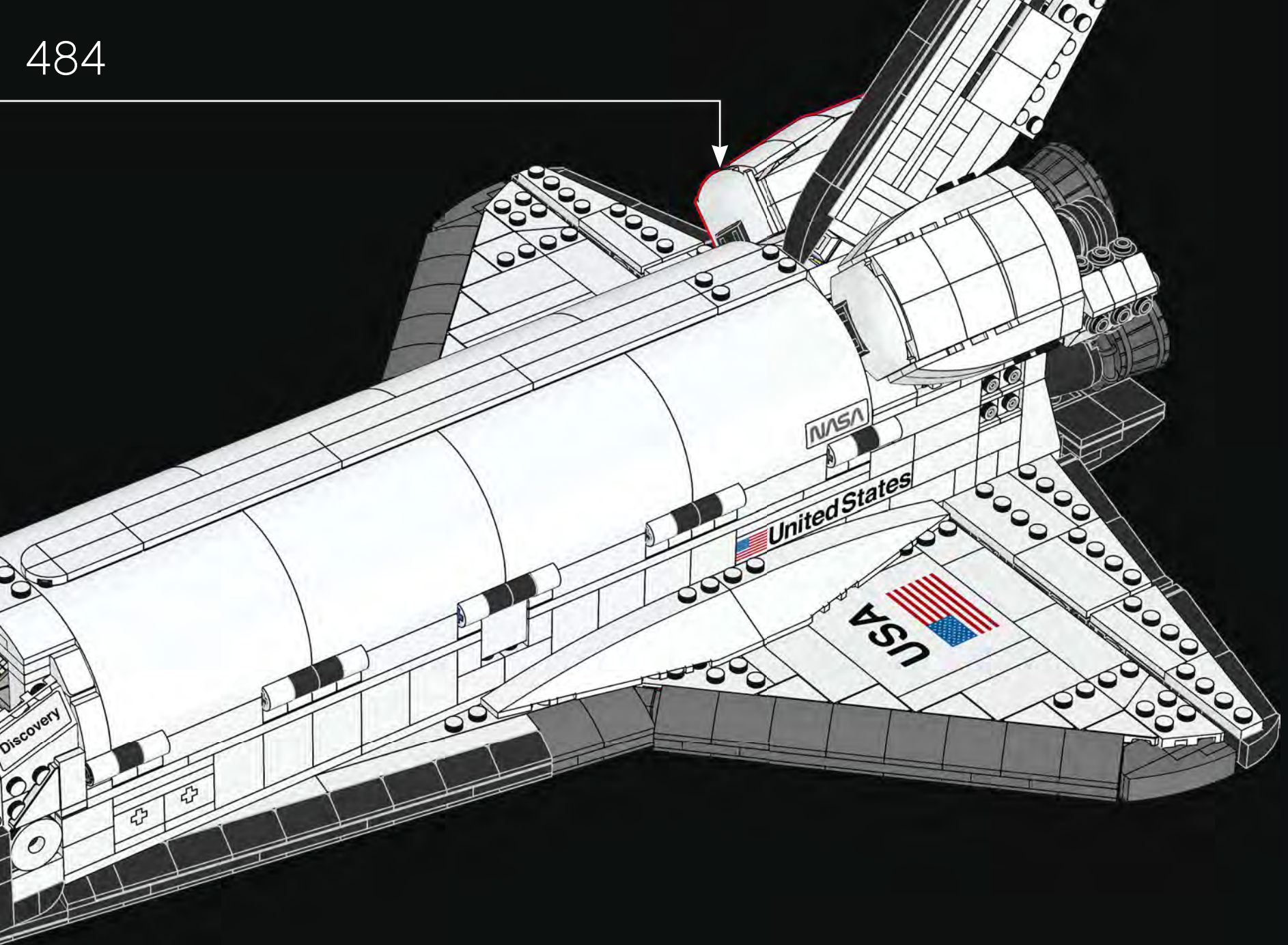


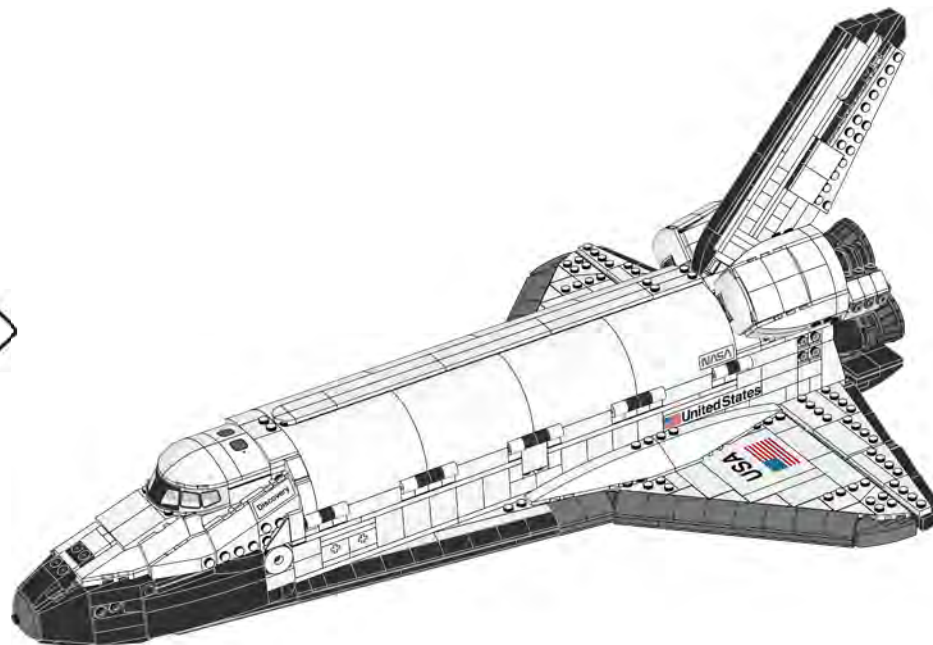
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483







1x

1x

485



1x

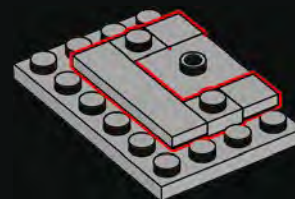


2x



2x

486

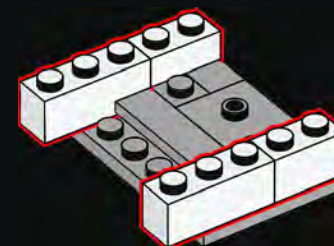


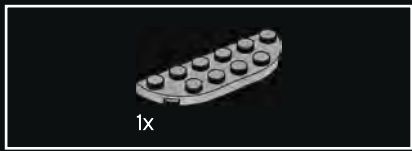
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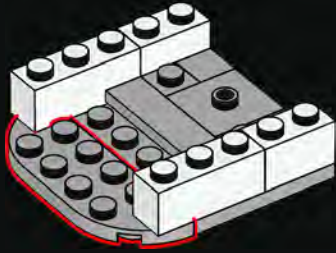
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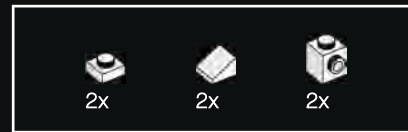
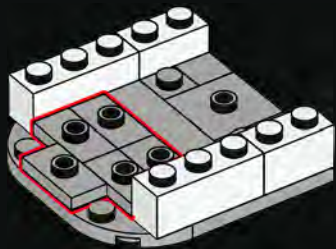




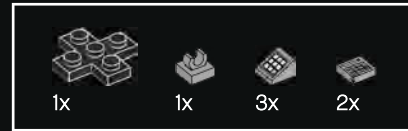
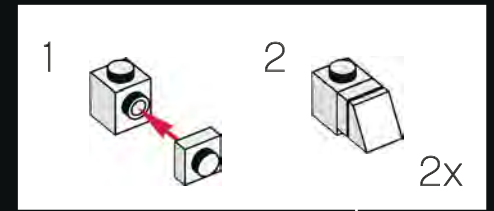
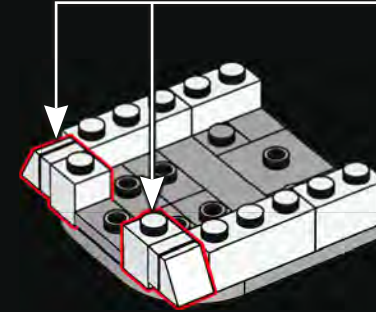
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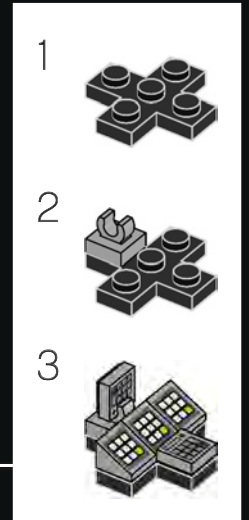
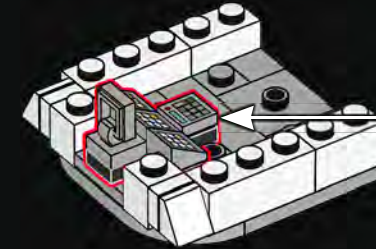
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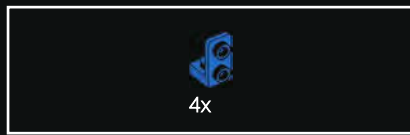


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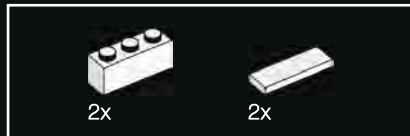
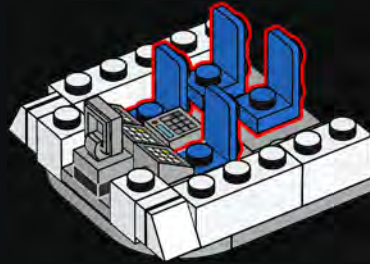


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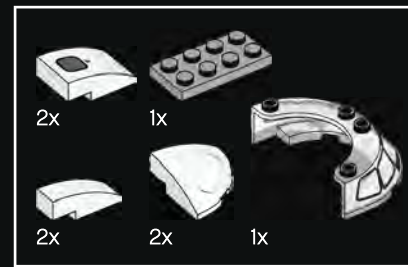
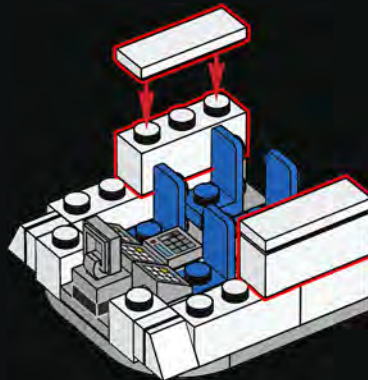




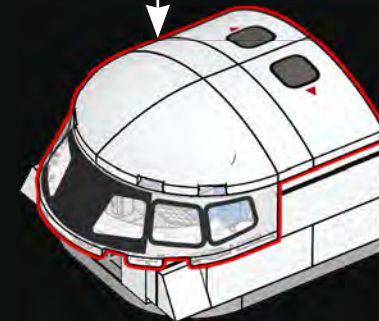
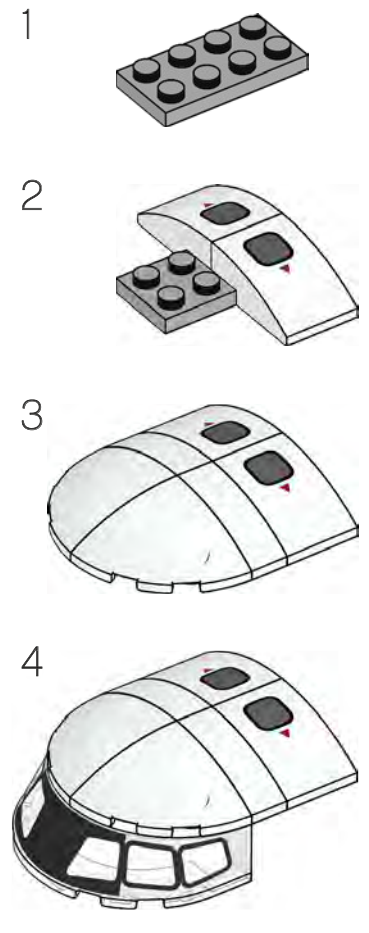
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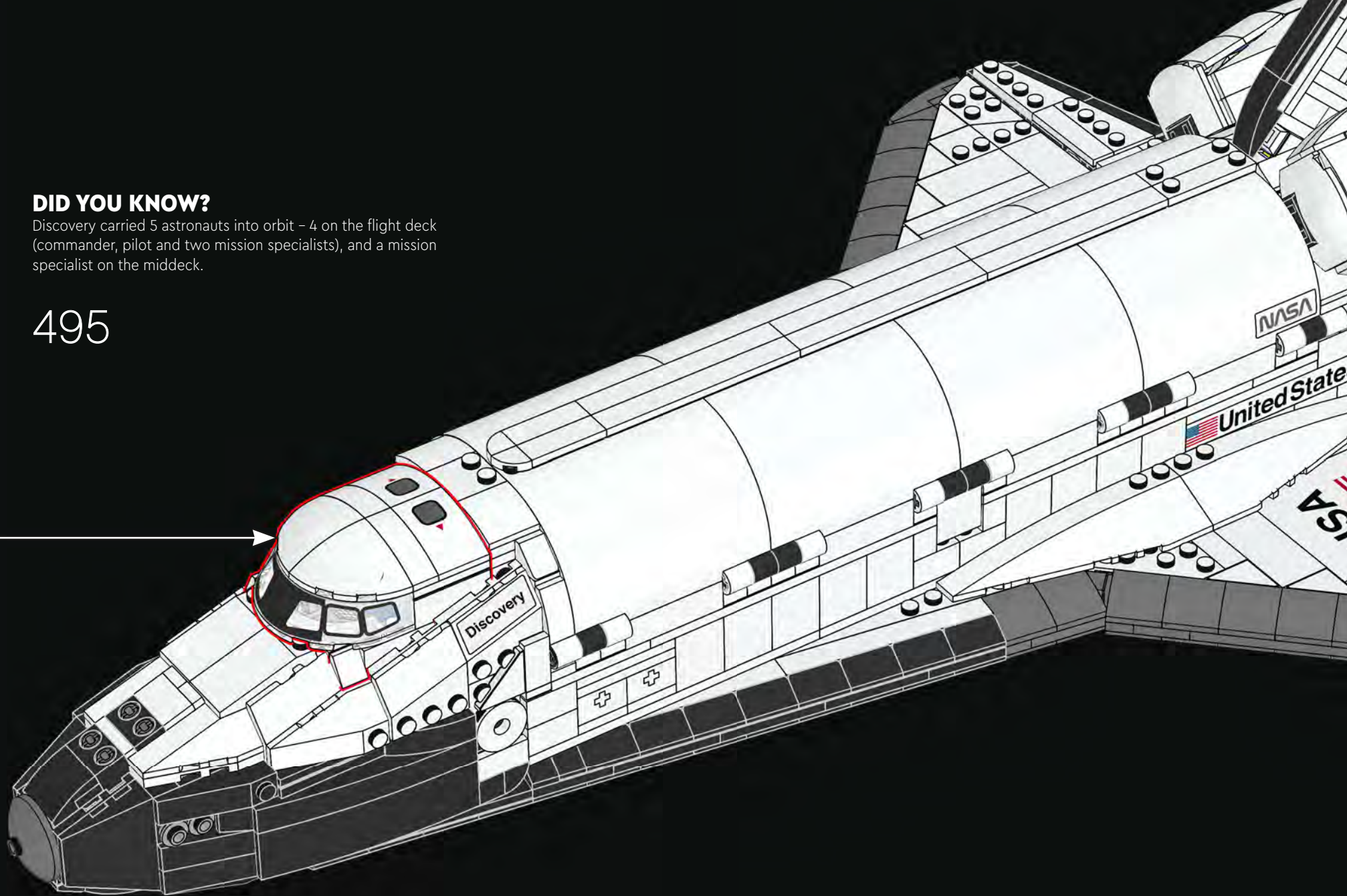
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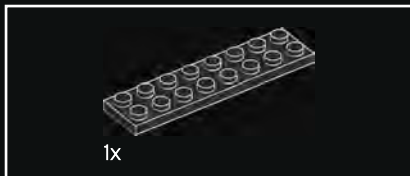
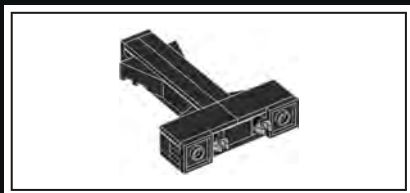


DID YOU KNOW?

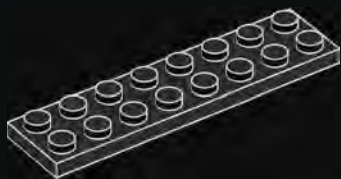
Discovery carried 5 astronauts into orbit – 4 on the flight deck (commander, pilot and two mission specialists), and a mission specialist on the middeck.

495

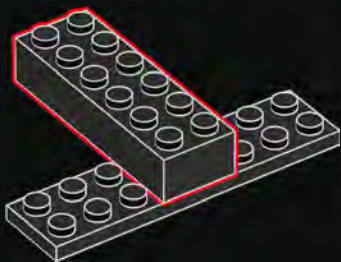




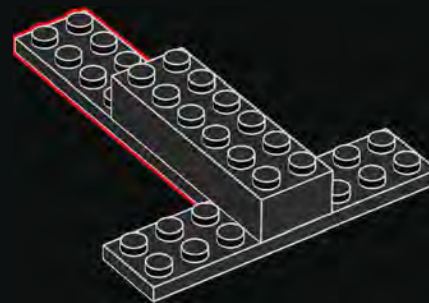
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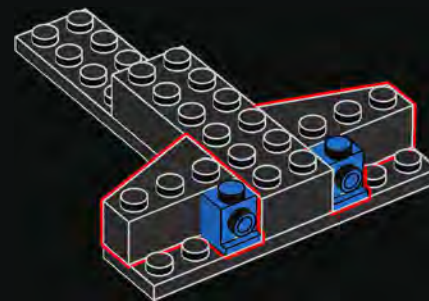
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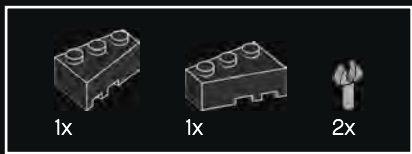


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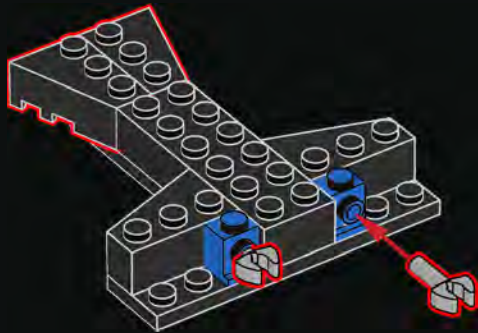


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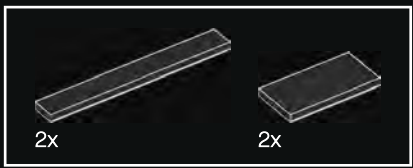
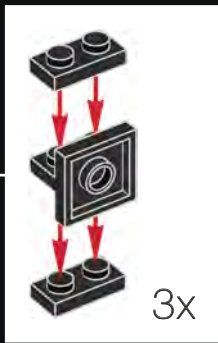
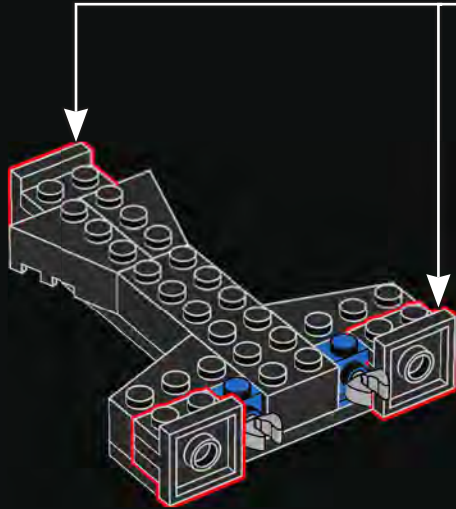




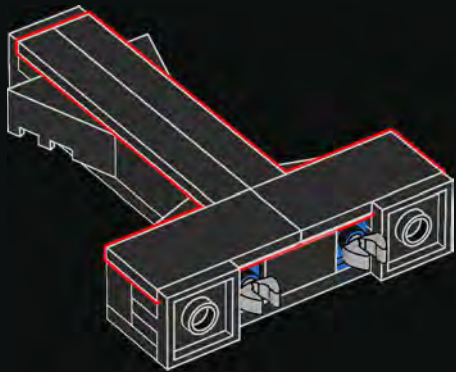
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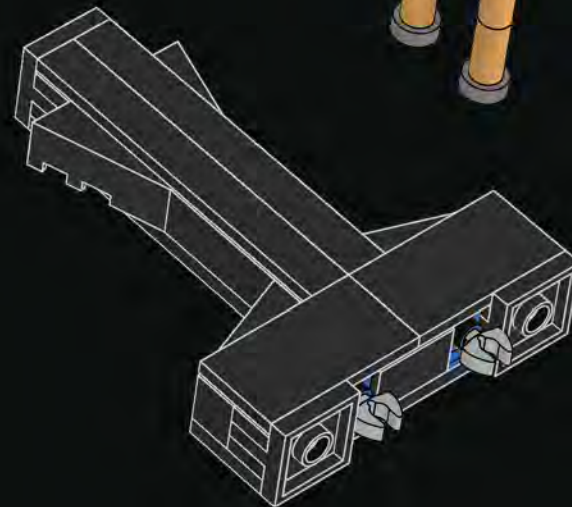
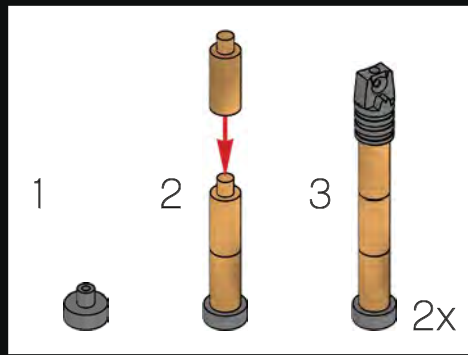


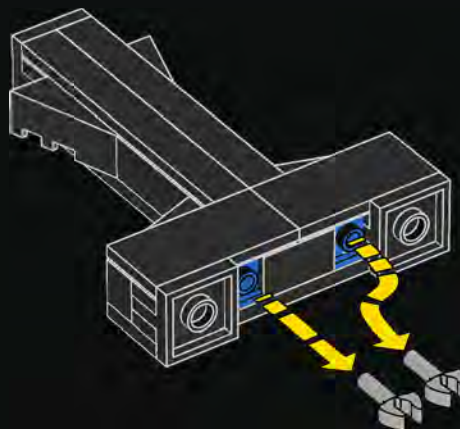
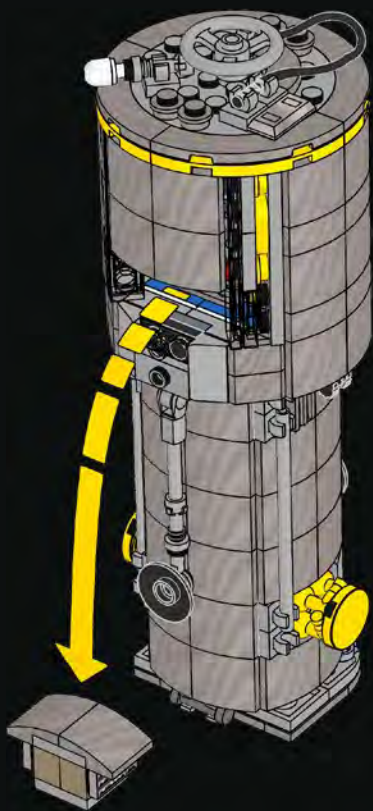
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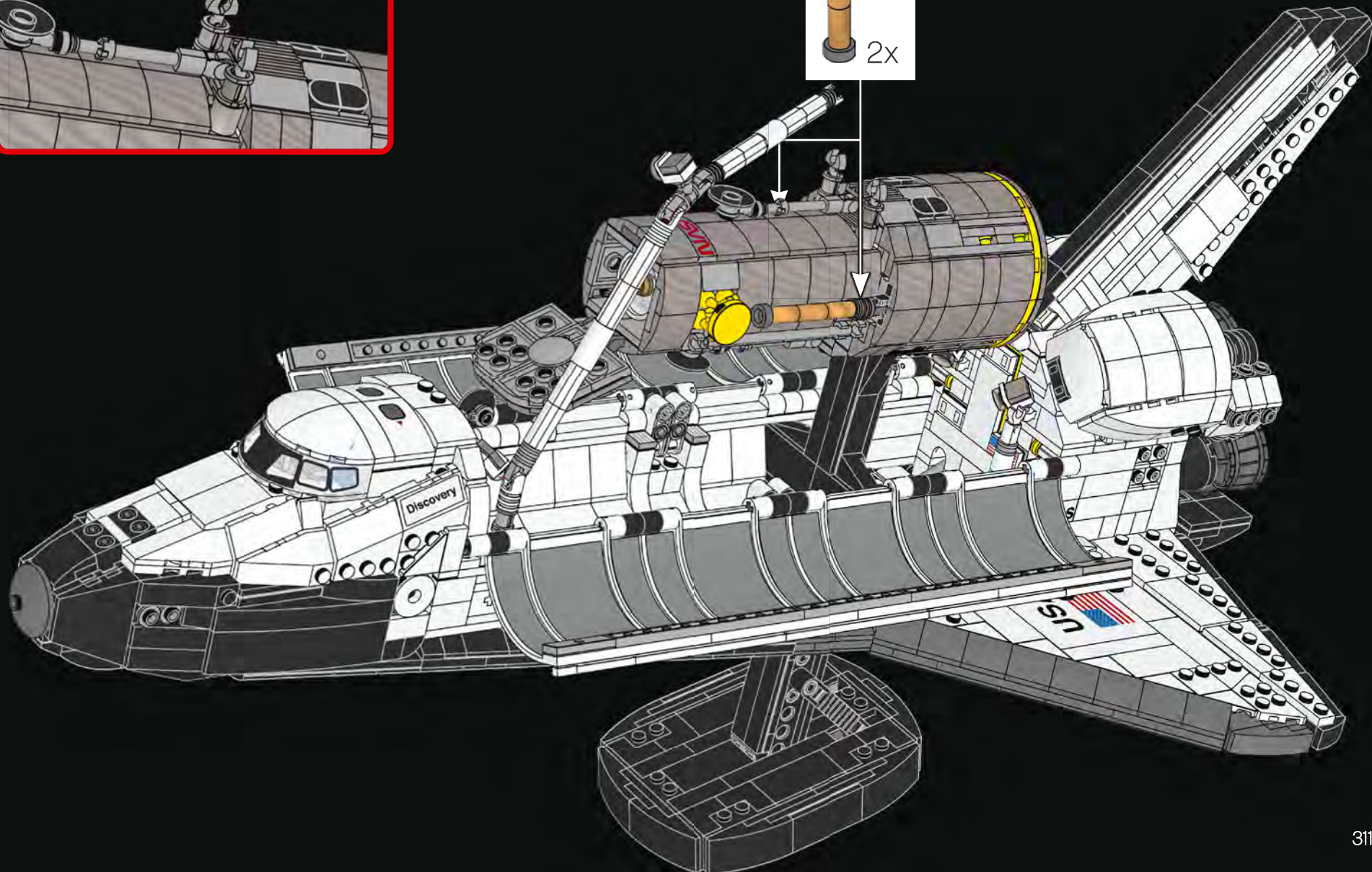
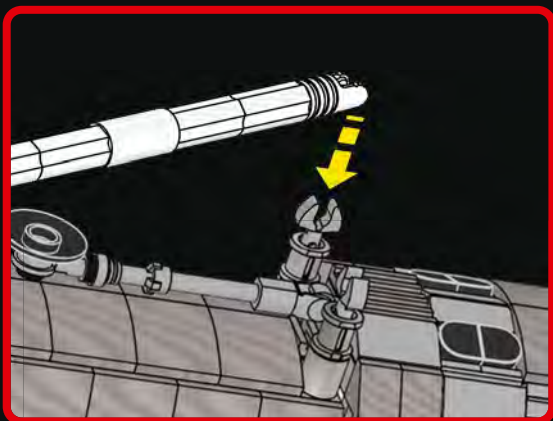


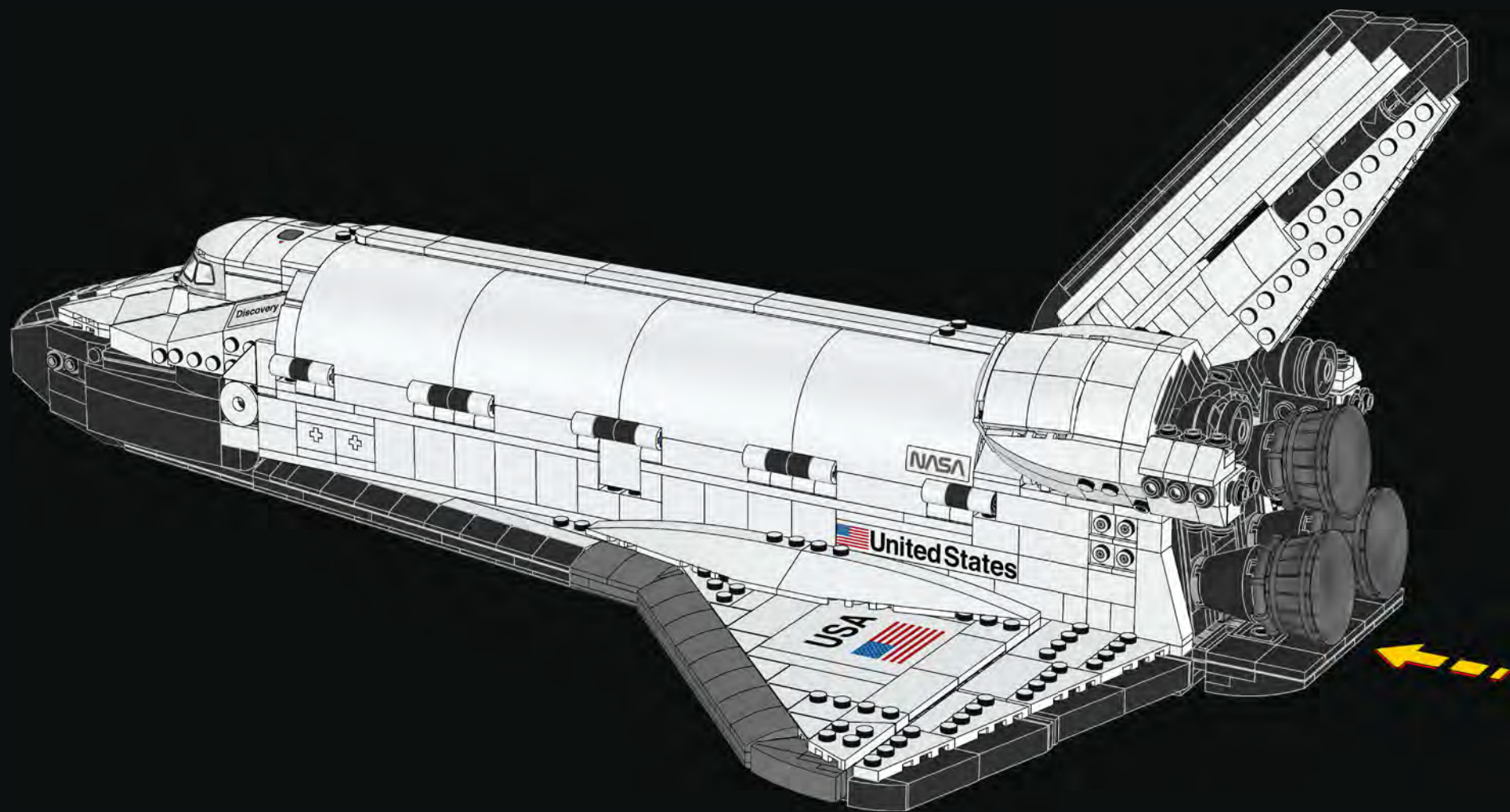


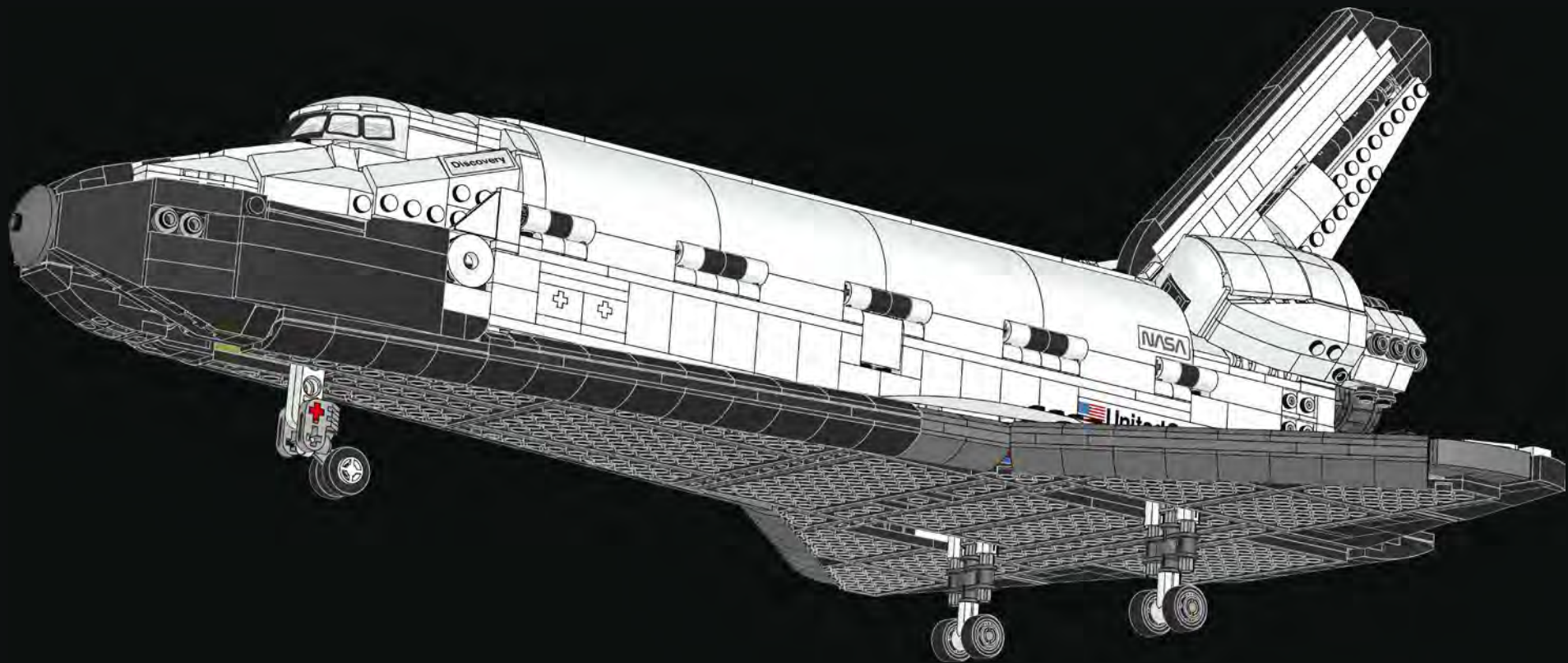
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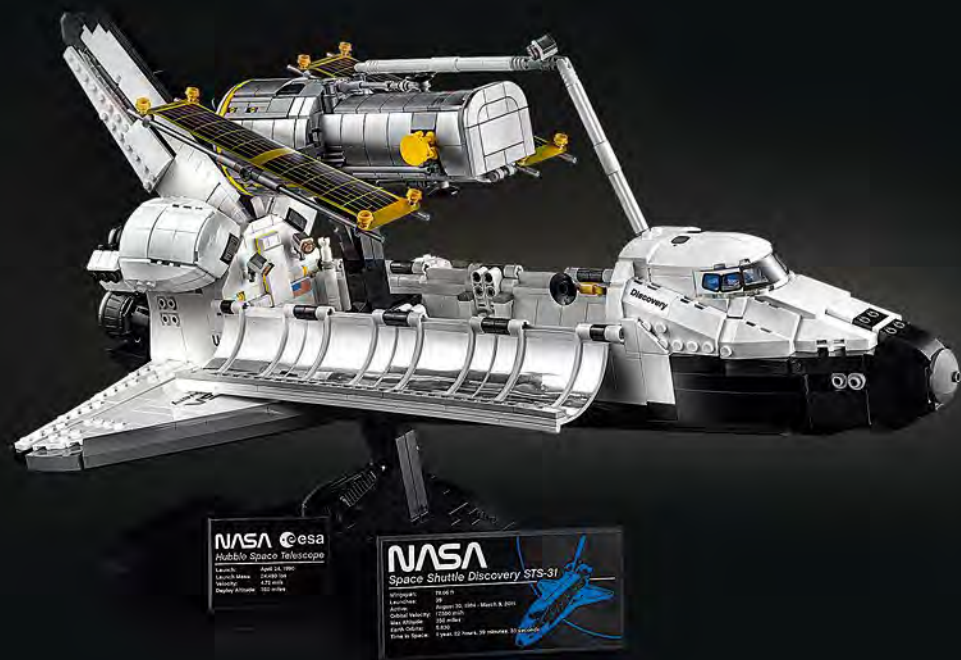














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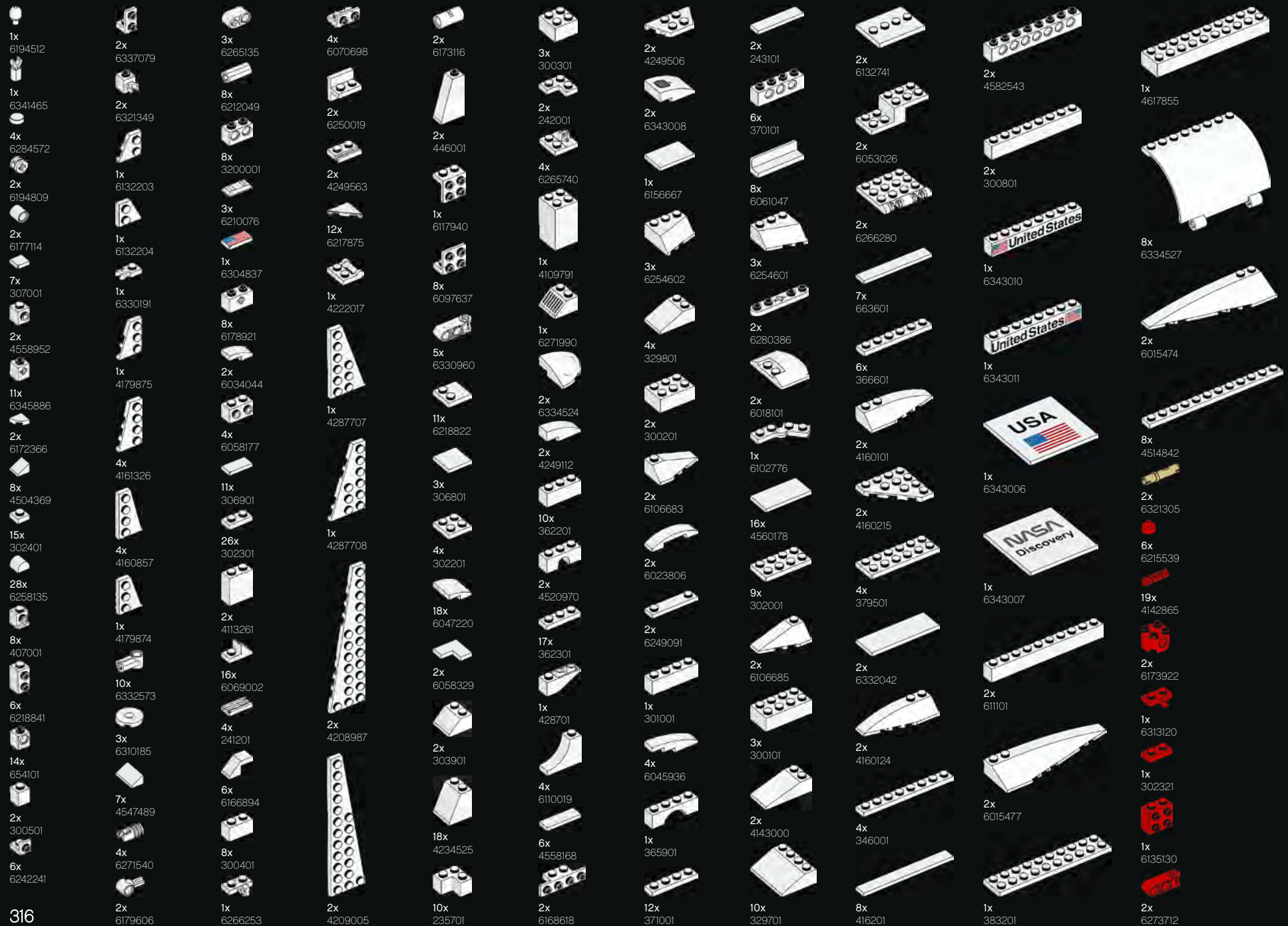
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