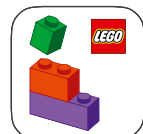




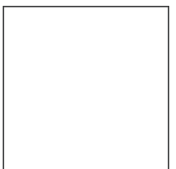
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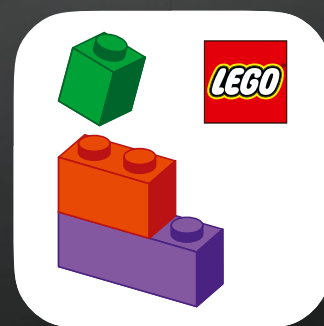


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Our window to the universe

Rome wasn't built in a day, and a universe 13.8 billion years in the making will take generations to study, understand and explore. Within the past few decades though, monumental leaps in technology have helped us to understand more about its vast expanse, origin and composition, and made us wonder about our place in time and space. Standing on the shoulders of centuries of scientific observation and progress, the Hubble Space Telescope has played a vital role in some of the most groundbreaking discoveries about our universe over the past 35+ years.



November 1995

Image of the Eagle Nebula ('Pillars of Creation') reveals star-forming columns of gas and dust.

Credit: NASA, ESA/Hubble, STScI, J. Hester and P. Scowen (Arizona State University)



January 2005

Grand-design spiral galaxy Messier 51, the 'Whirlpool Galaxy', contains hundreds of billions of stars and active star-forming nebulae.

Credit: NASA, ESA, S. Beckwith (STScI), and The Hubble Heritage Team (STScI/AURA)



July 2009

The Butterfly Nebula provides insights into the outflowing gas from a dying star and the formation of a brilliant nebula.

Credit: NASA, ESA and the Hubble SM4 ERO Team



From the LEGO® Icons Design Team



The astounding images and data provided by the Hubble Space Telescope have brought the farthest reaches of the universe closer to Earth. We're just beginning to comprehend its historic significance, and it continues to inspire scientists and spark the public's imagination. We wanted to honour that legacy. With this model, built in LEGO® minifigure scale, you can inspect the inside of the telescope and some of its instruments, and you can recreate and display elements of its ongoing mission. Every detail is authentically represented in collaboration with our amazing partners at NASA and ESA. With their help, we've created a sturdy model full of intricate details – like the visual evolution of the solar array panels. Commencing countdown – get ready to build and explore.

A stellar partnership

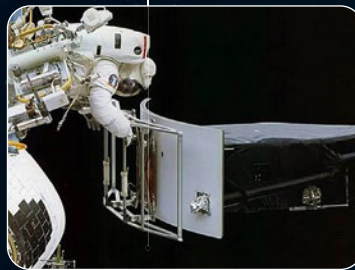
In an ongoing partnership, NASA and ESA pool their resources and contributions to the Hubble programme to revolutionise astronomy. Both share discoveries, with observing time allocated solely on scientific merit by an international panel. ESA is guaranteed 15% access and often achieves nearly 25%. The Hubble Space Telescope was built with handrails and replaceable parts for in-orbit servicing, and from 1993 to 2009, NASA and ESA astronauts carried out several Servicing Missions (SM) to perform major upgrades and repairs.

1987 1988 1989 **1990** 1991 1992 **1993** 1994 1995 1996 **1997** 1998



24-29 April 1990

Launch – Space Shuttle Discovery carried the Hubble Space Telescope into space.



2-13 December 1993

SM1 – Upgraded the telescope and corrected a flaw in Hubble's main mirror, fixing the spherical aberration for the rest of Hubble's instruments.

11-21 February 1997

SM2 – Extended the range of wavelengths visible to Hubble, with a new Space Telescope Imaging Spectrograph (STIS) and a Near Infrared Camera and Multi-Object Spectrometer (NICMOS).



1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010



19-27 December 1999

SM3A – Hubble's fourth gyro failed, forcing it into safe mode. A two-part mission, SM3A's American and European crew worked together to restore operations.



1-12 March 2002

SM3B – Installed two new solar array panels, and the Faint Object Camera (the last original instrument) was replaced by the Advanced Camera for Surveys (ACS).

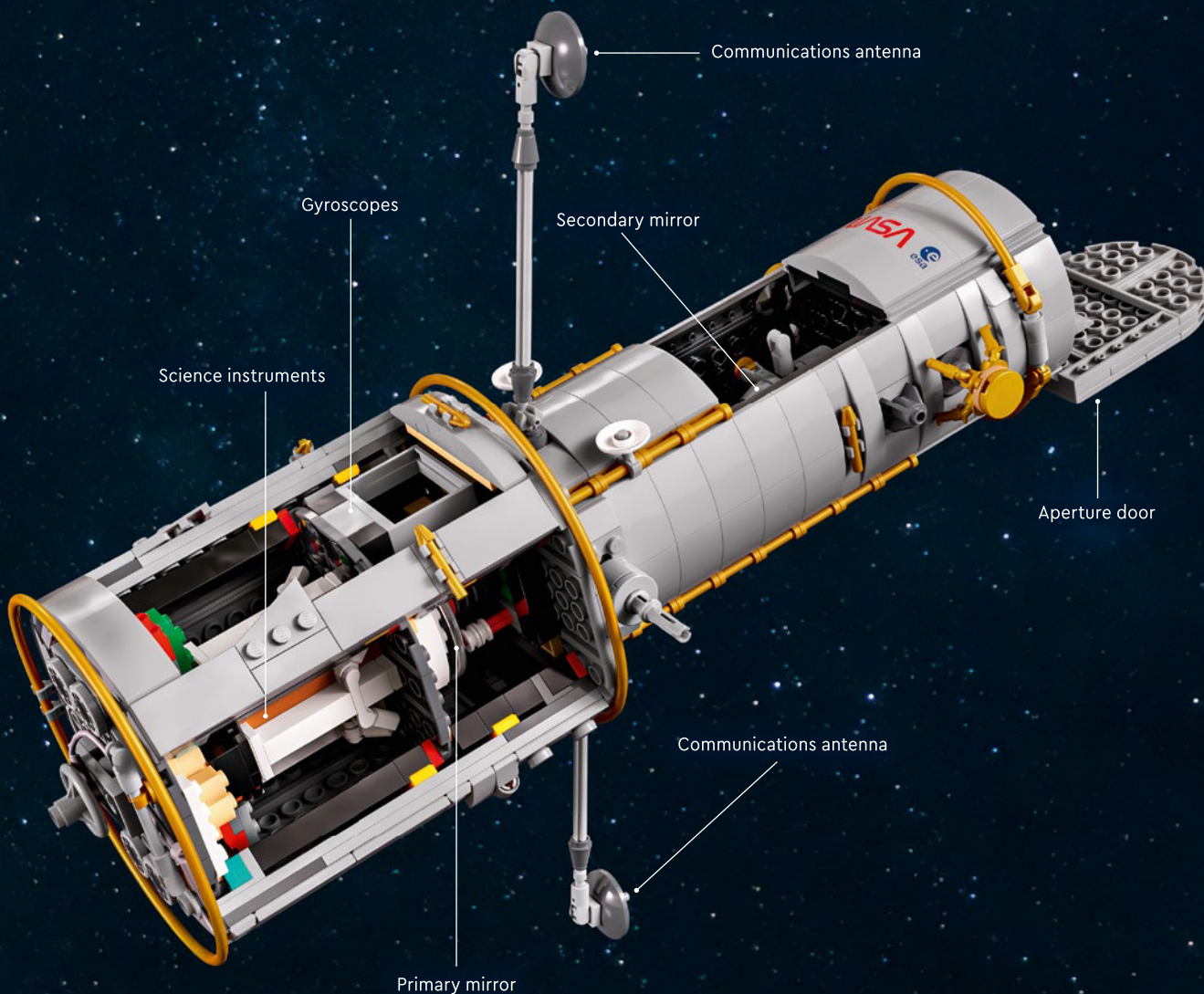


11-24 May 2009

SM4 – Installed the Cosmic Origins Spectrograph (COS) and Wide Field Camera 3 (WFC3), a refurbished Fine Guidance Sensor and a device for docking to Hubble.

Explore your model

In close collaboration with our partners at NASA and ESA, we've recreated authentic engineering details inside and out. Each section of your model corresponds to real instruments that helped to discover remarkable new information about our universe.





Space Telescope Imaging Spectrograph (STIS)
Cosmic Origins Spectrograph (COS)
Advanced Camera for Surveys (ACS)
Near Infrared Camera and Multi-Object Spectrometer (NICMOS)



Fine Guidance Sensors (FGS)

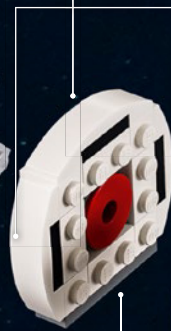
Secondary mirror

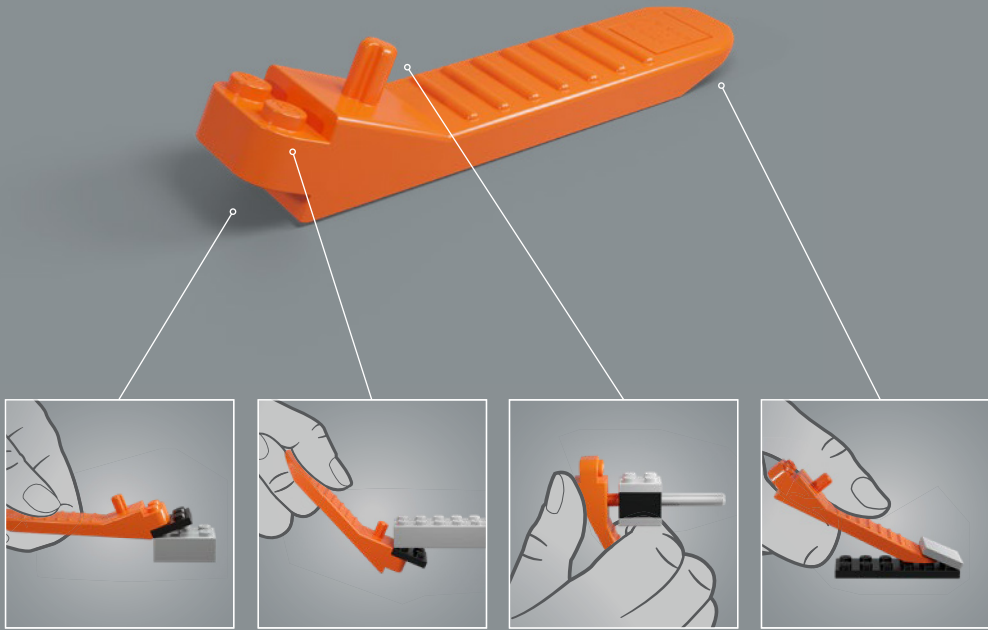
Primary mirror

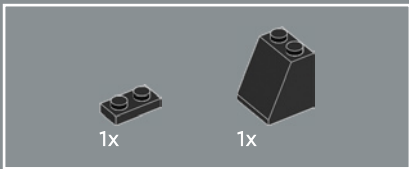
Central Baffle

Gyroscopes

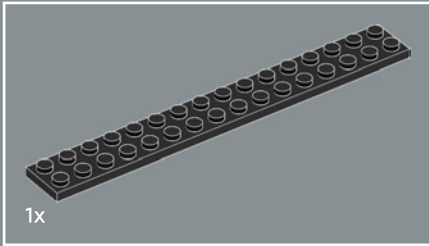
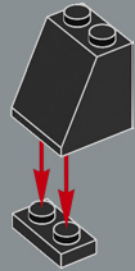
Wide Field Camera



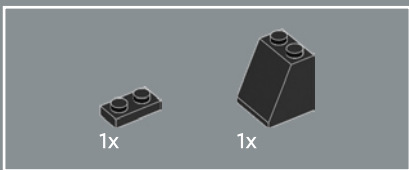
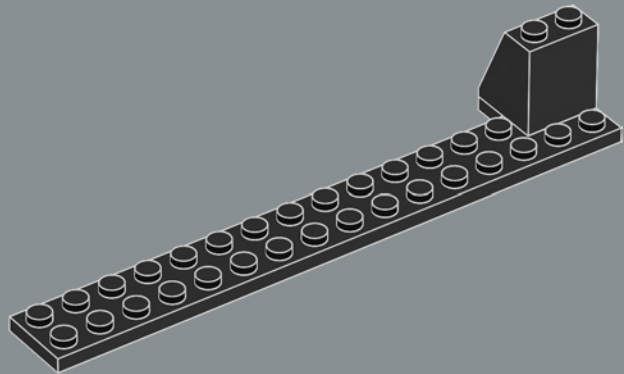




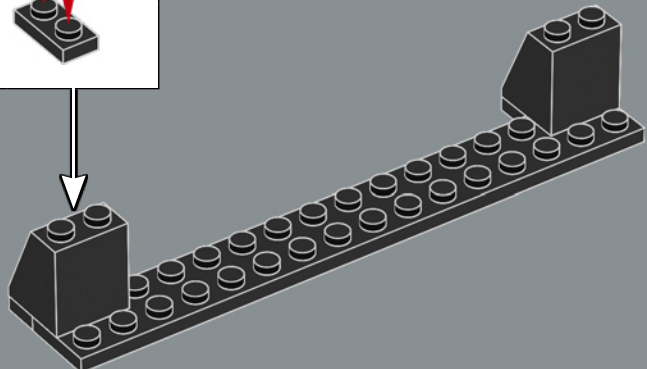
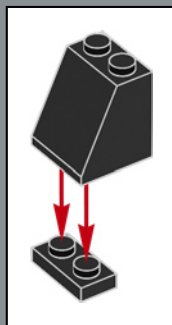
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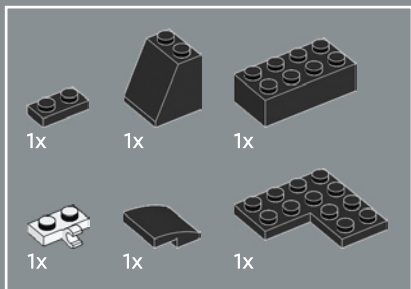


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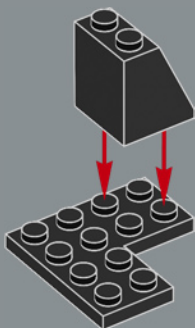
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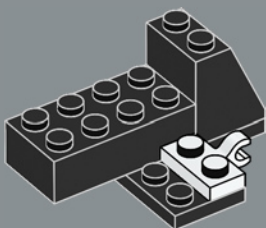


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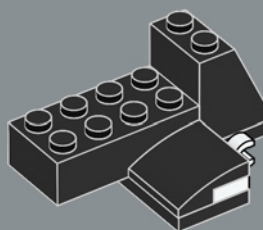
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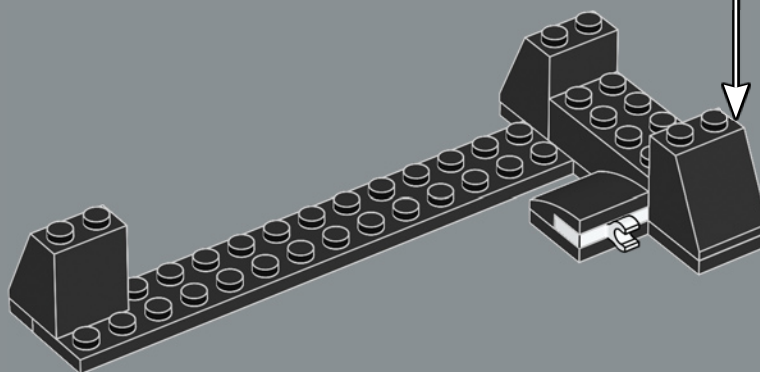
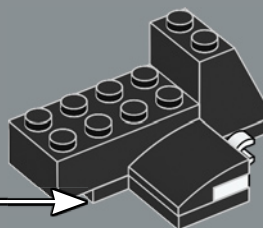
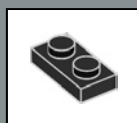
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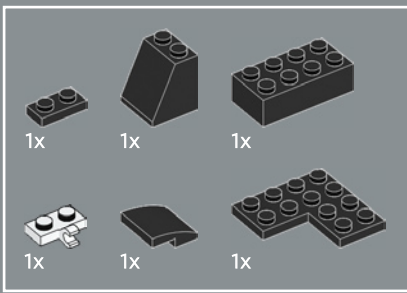


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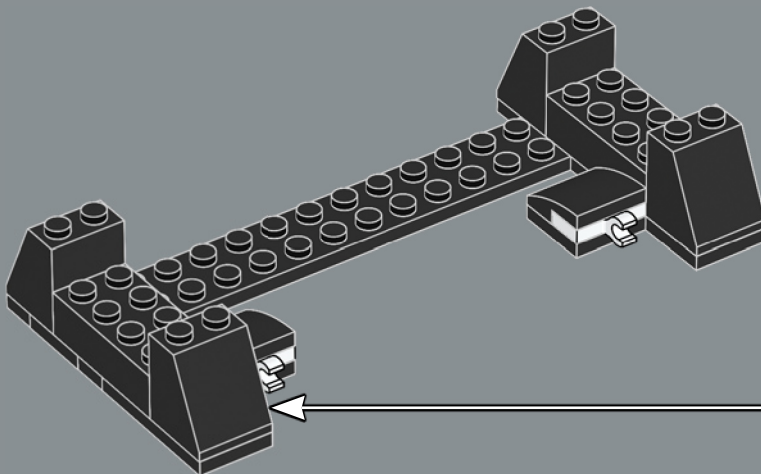
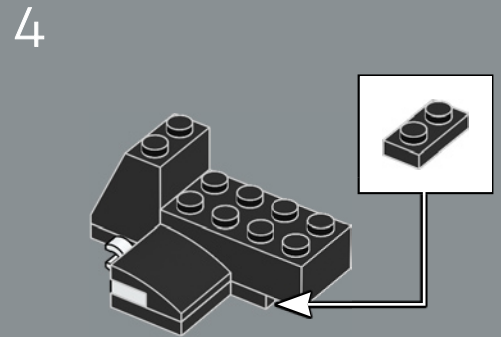
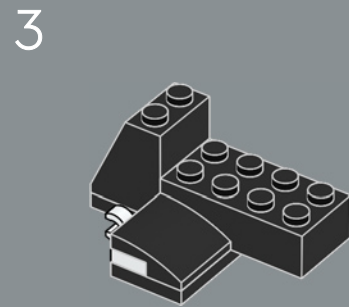
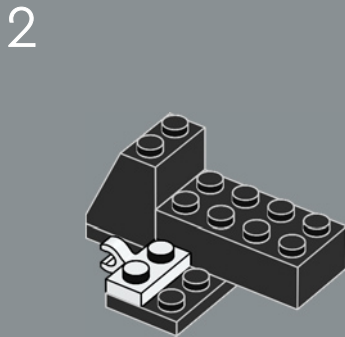
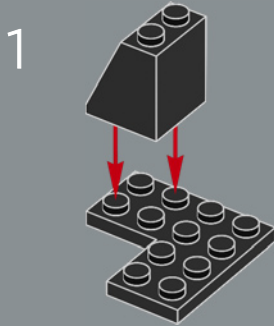


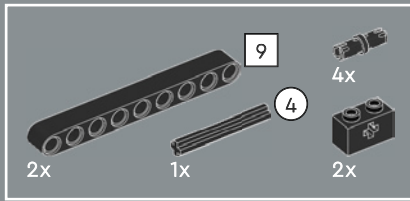
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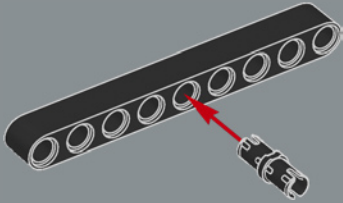
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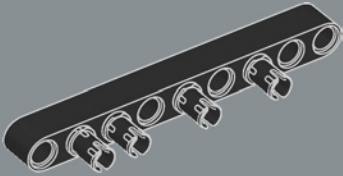


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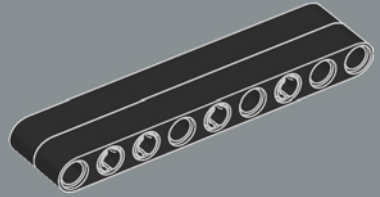
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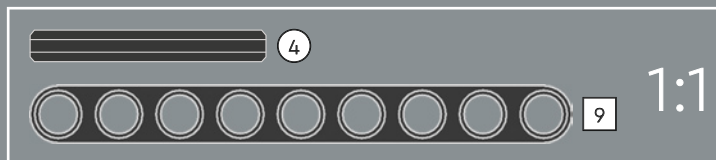
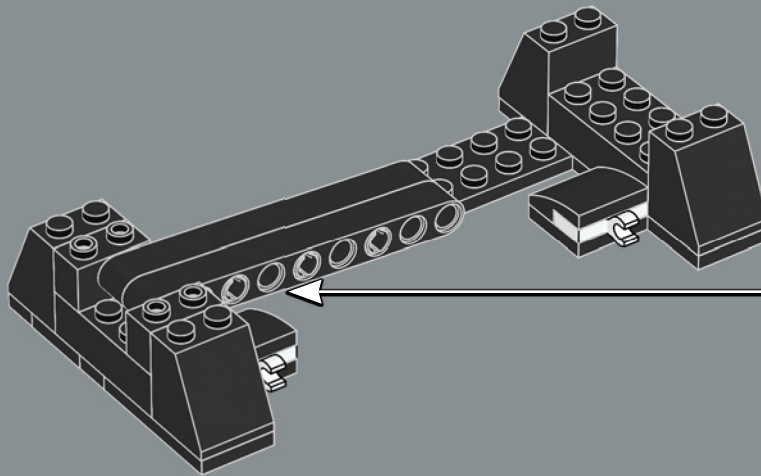
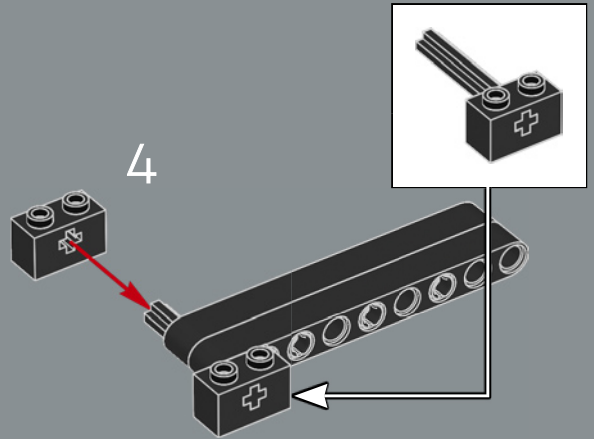
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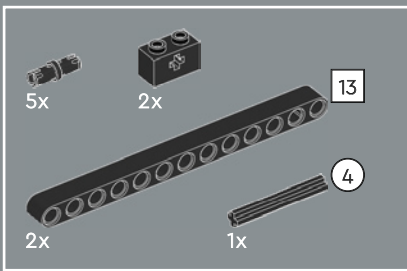


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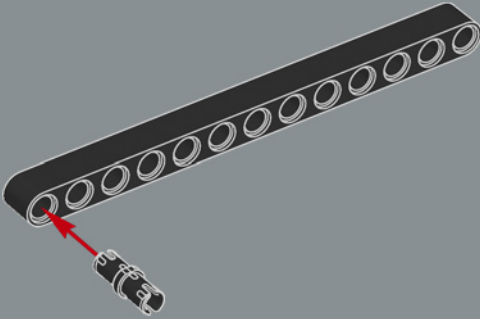
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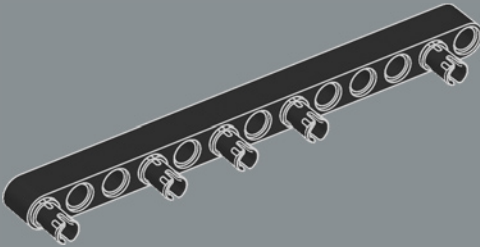


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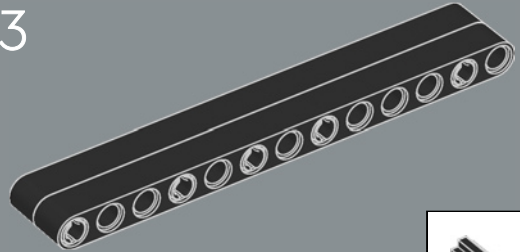
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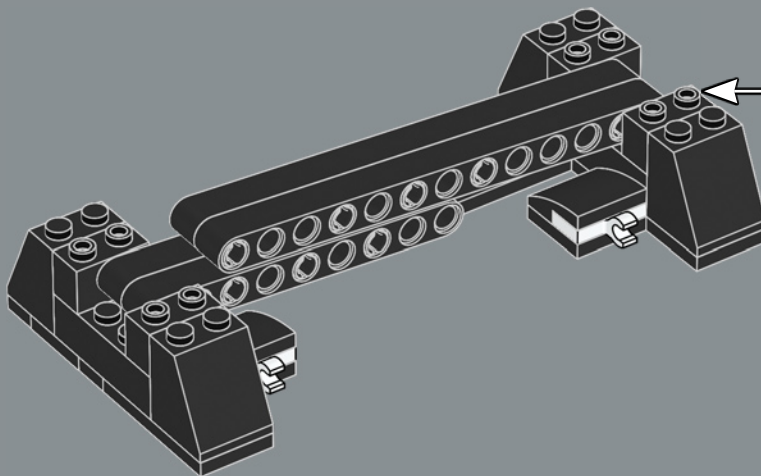
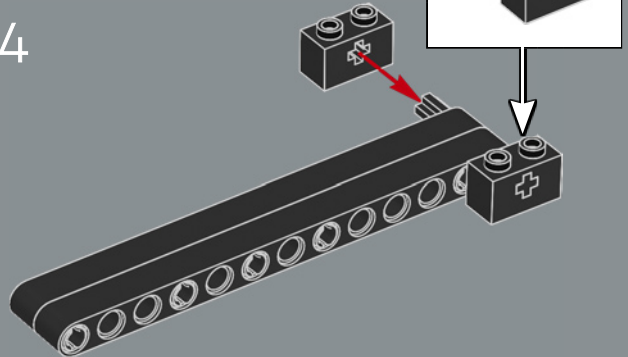
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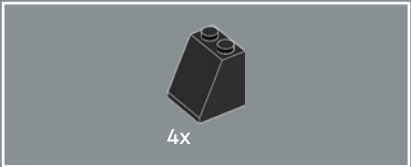


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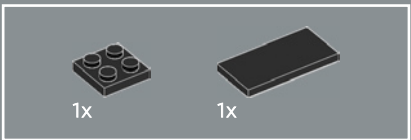
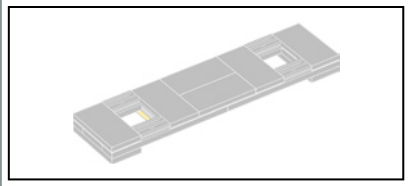
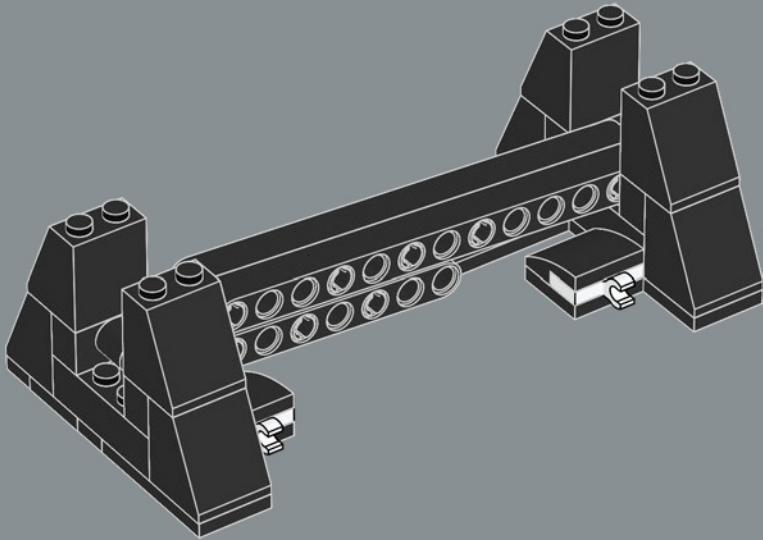


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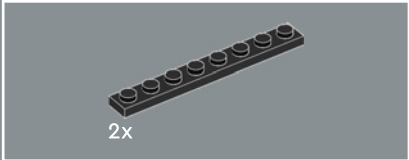
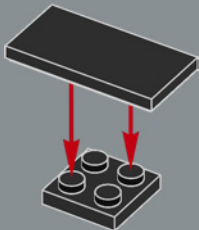




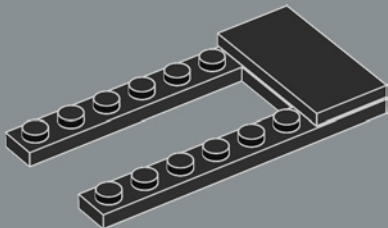
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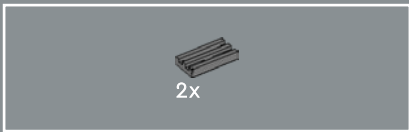


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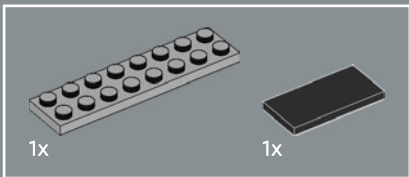
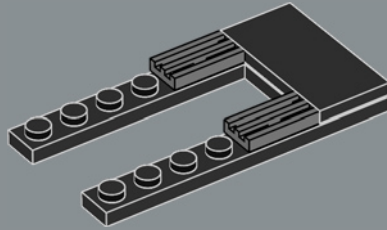


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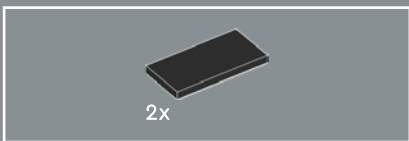
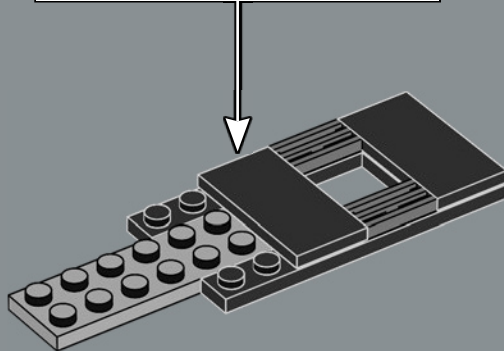
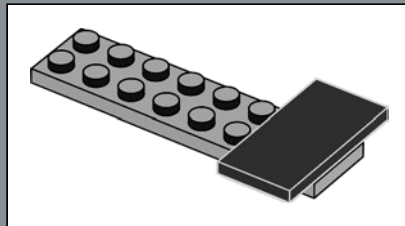




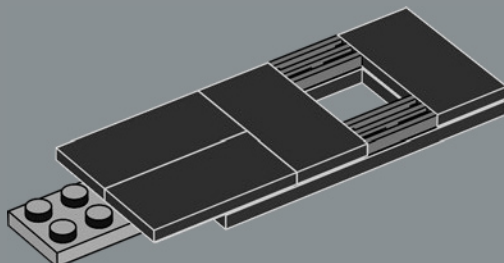
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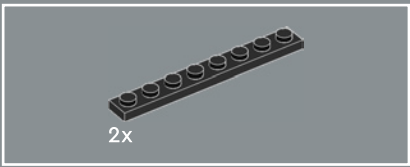


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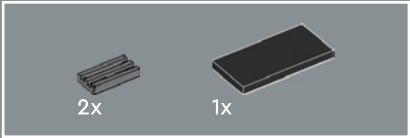
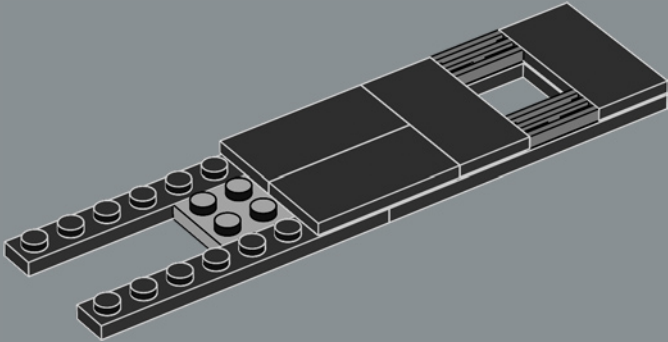


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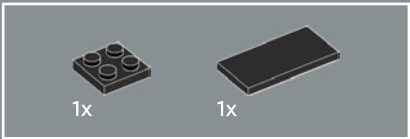
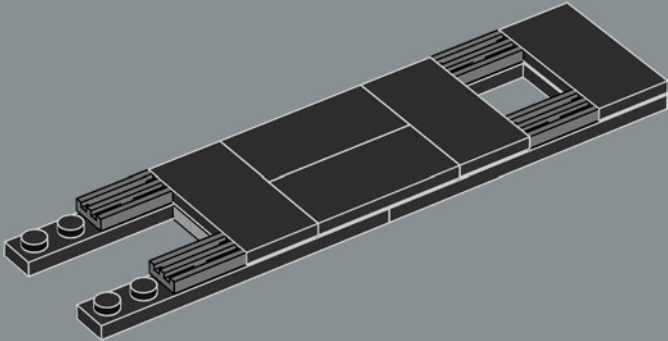




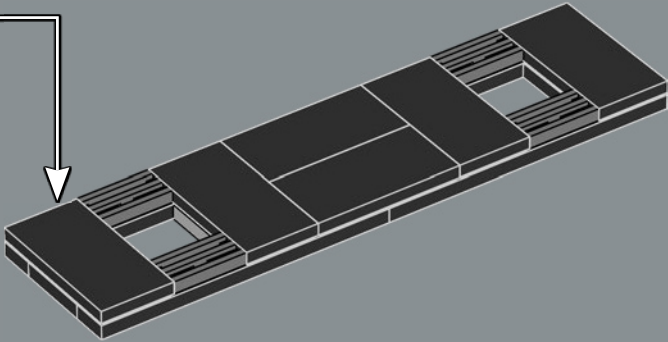
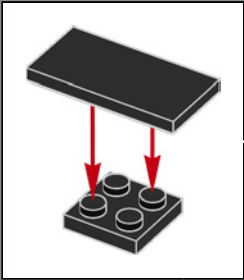
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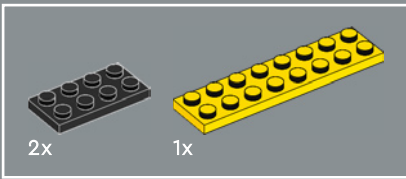


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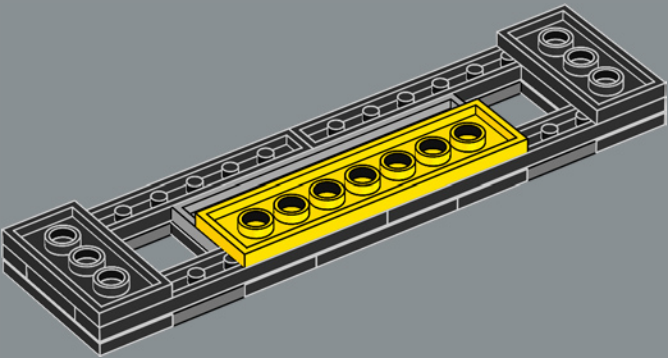


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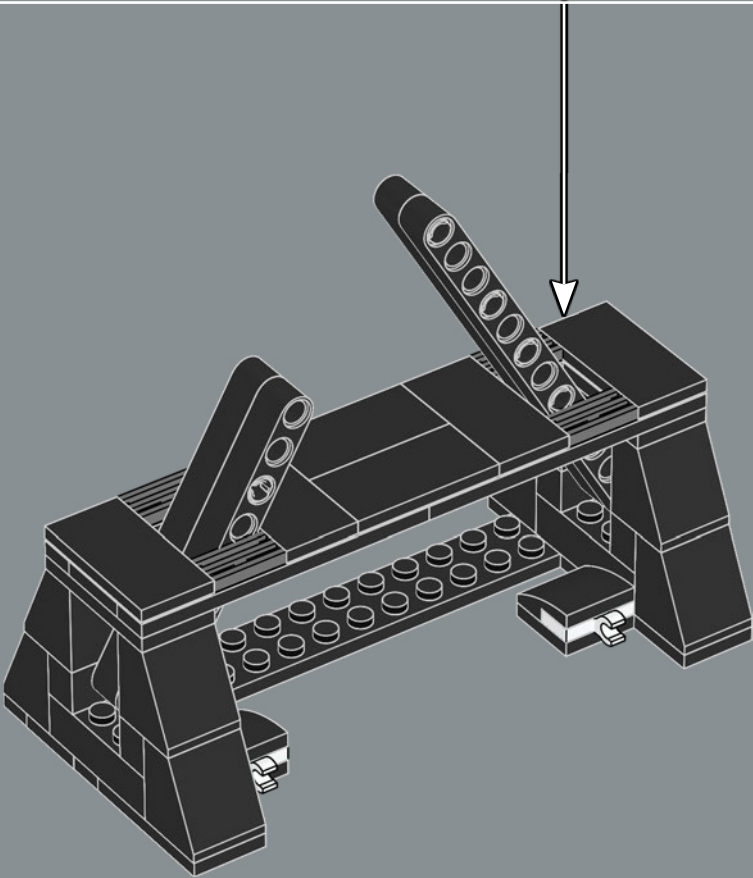


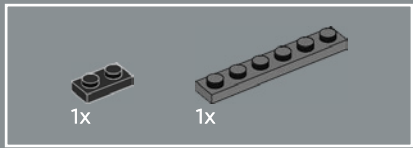


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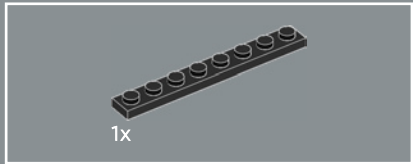
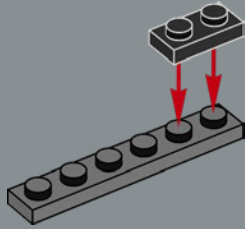


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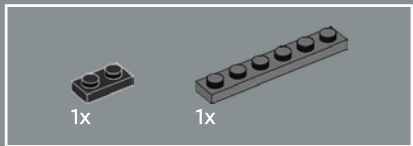
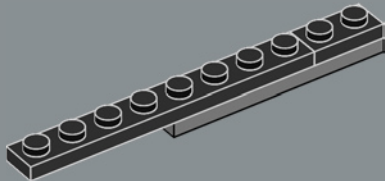




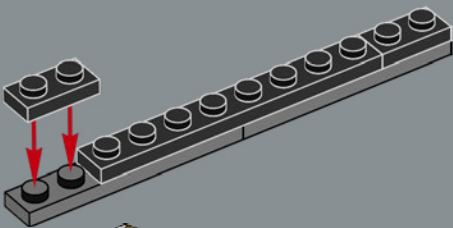
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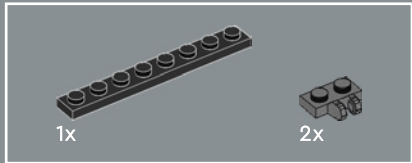
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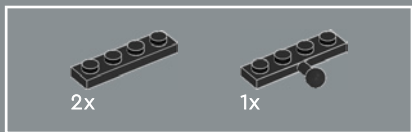
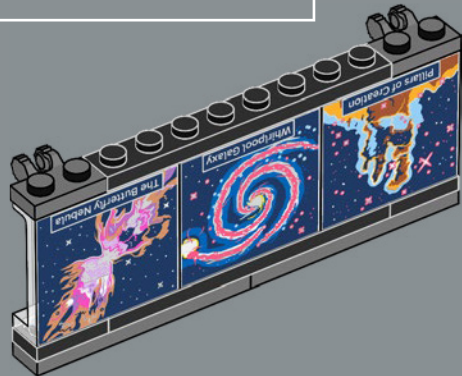
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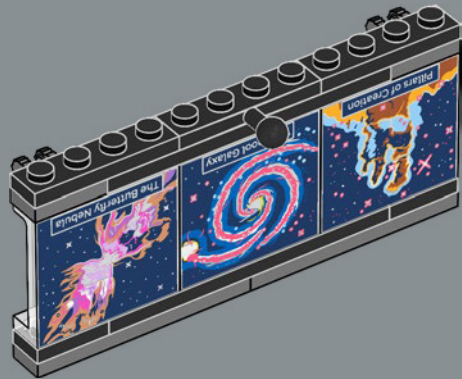
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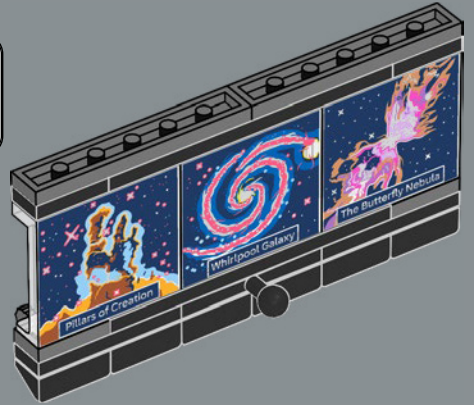
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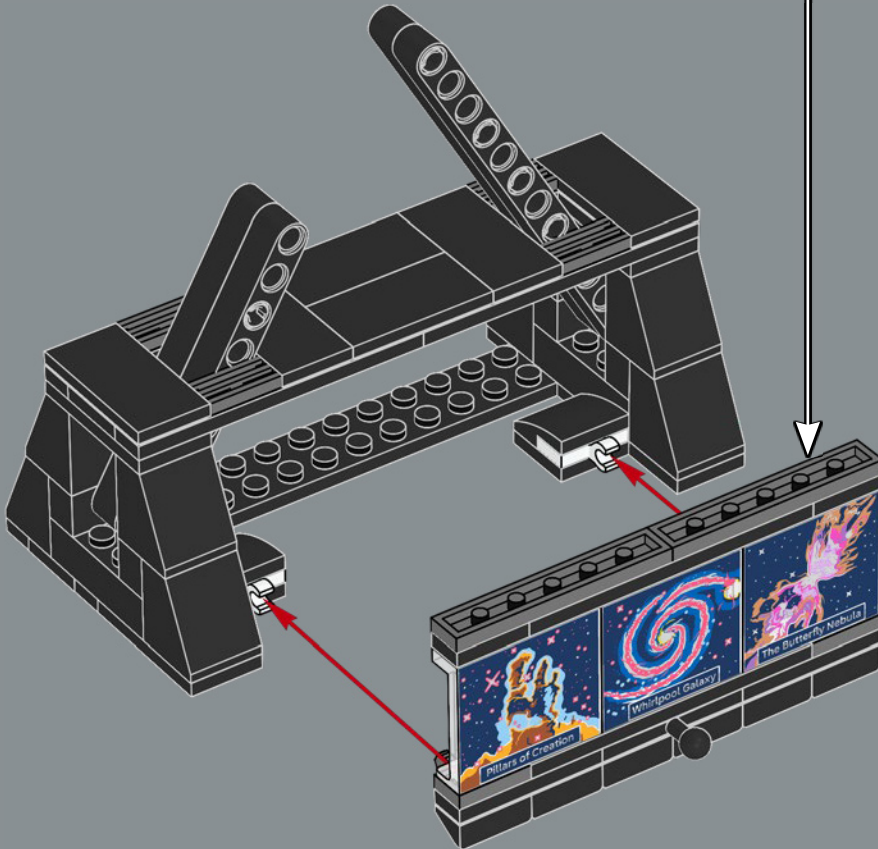
With its famous Deep Field images, Hubble looked farther into space – and further back in time – than any telescope before it.

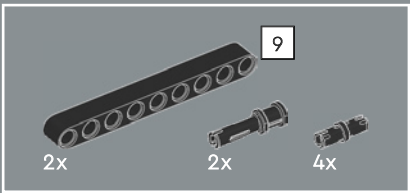


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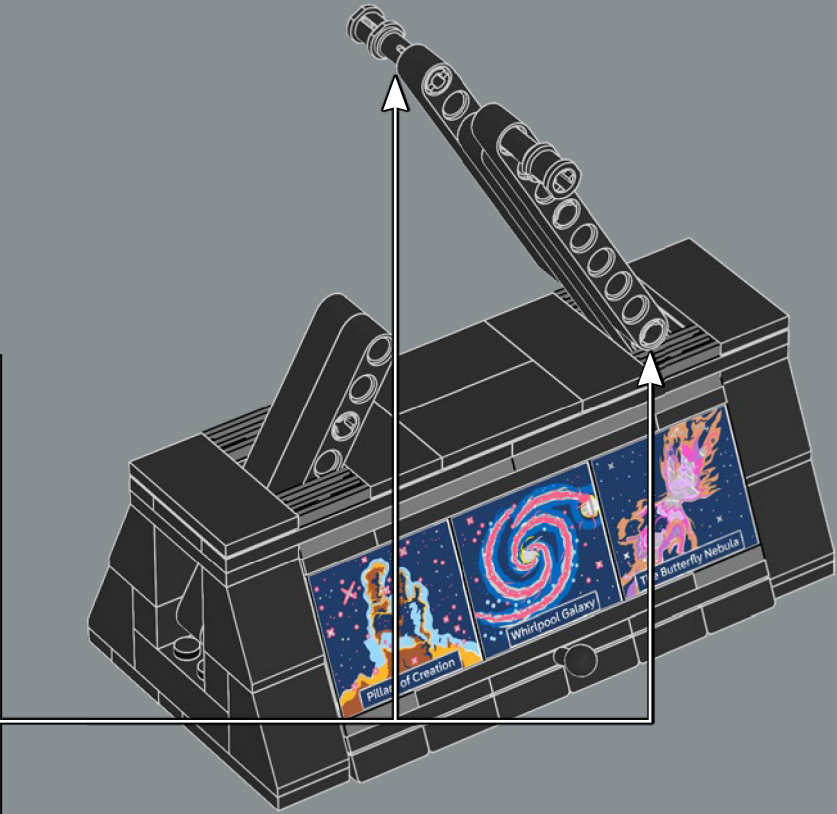
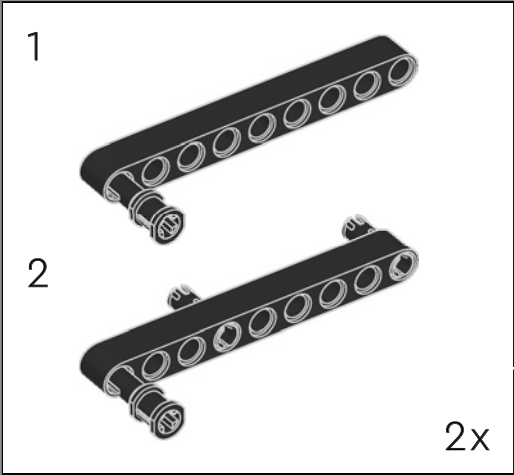


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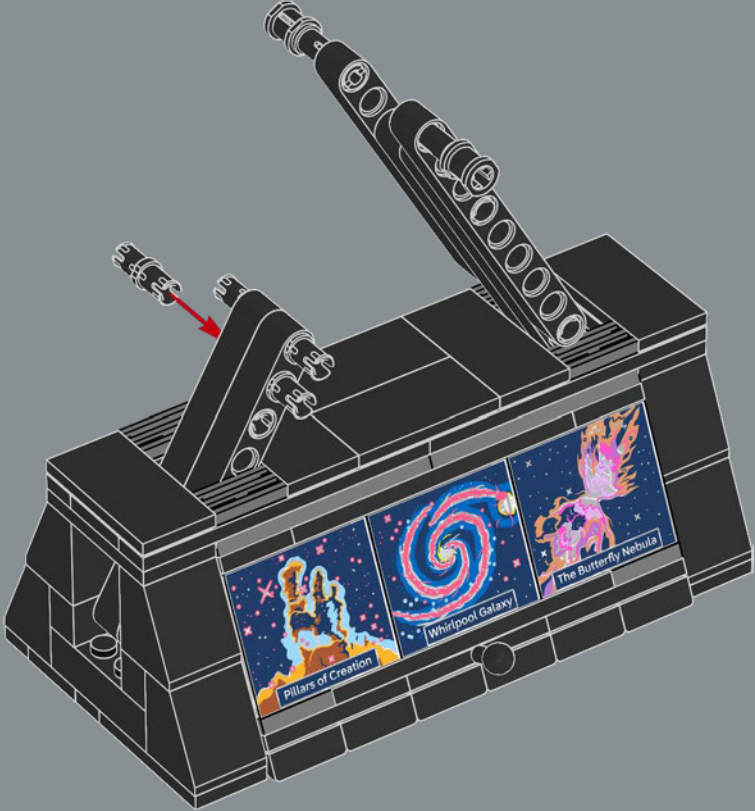


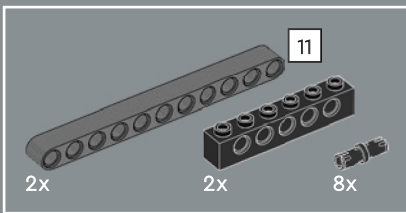


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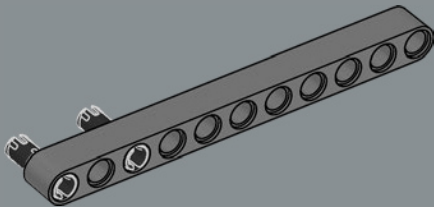
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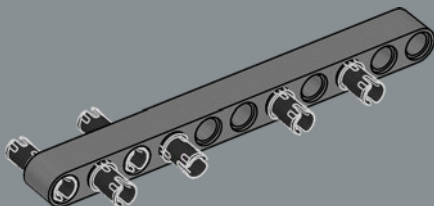


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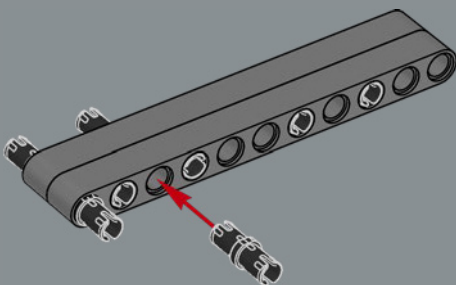
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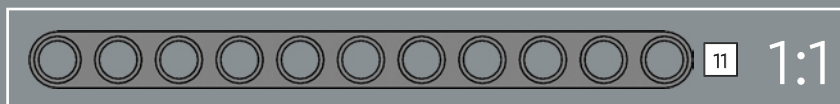
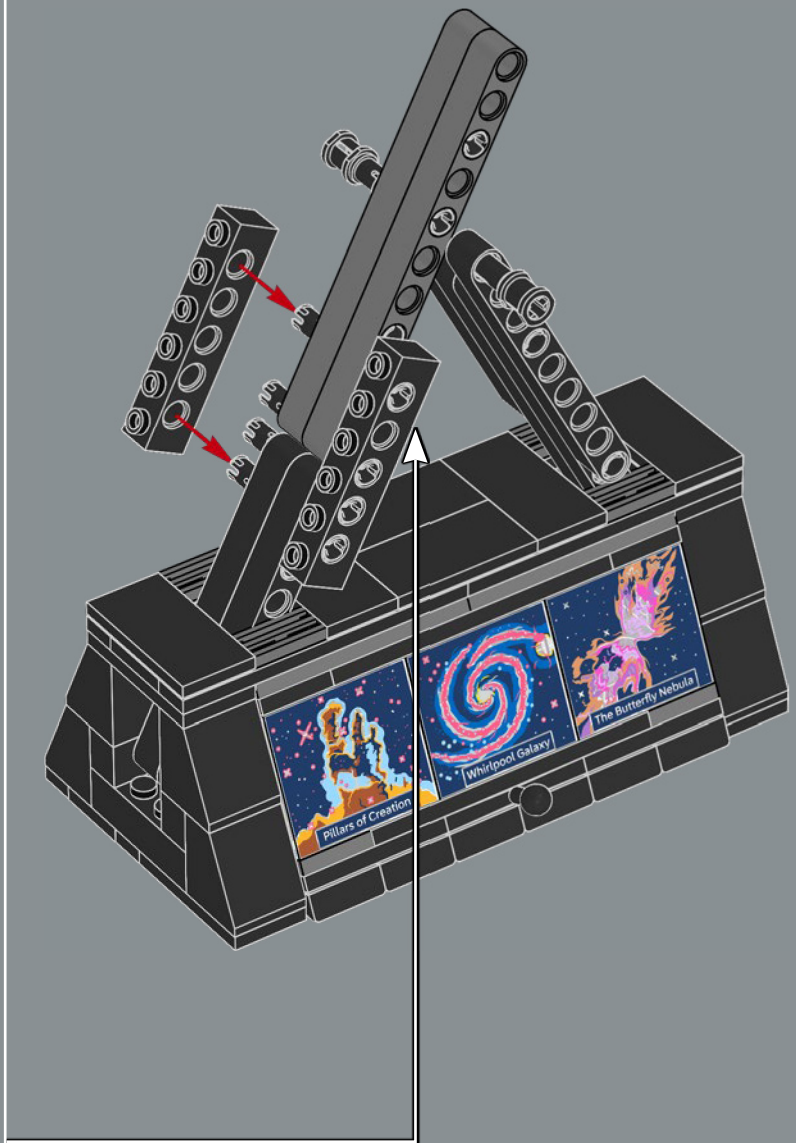
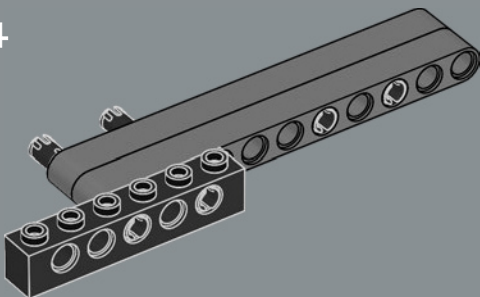
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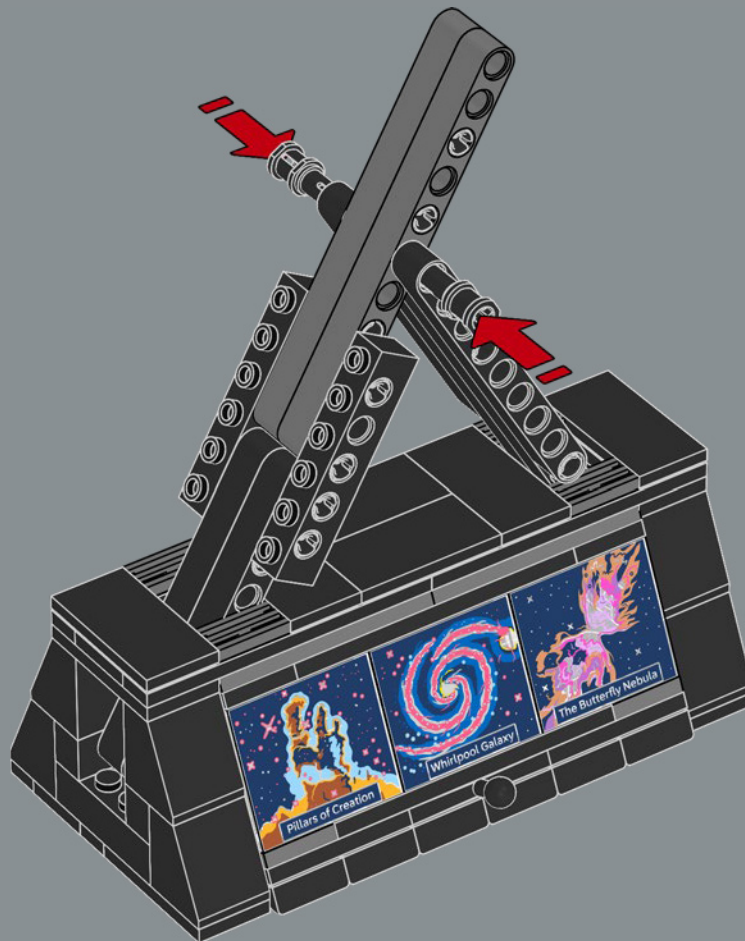
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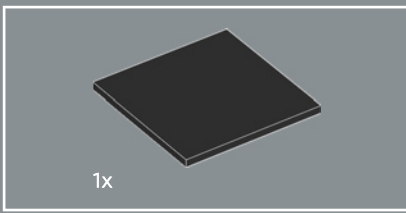


Since 1990, the Hubble Space Telescope has recorded more than 1.7 million observations and collected data from more than 108,000,000 astronomical objects.

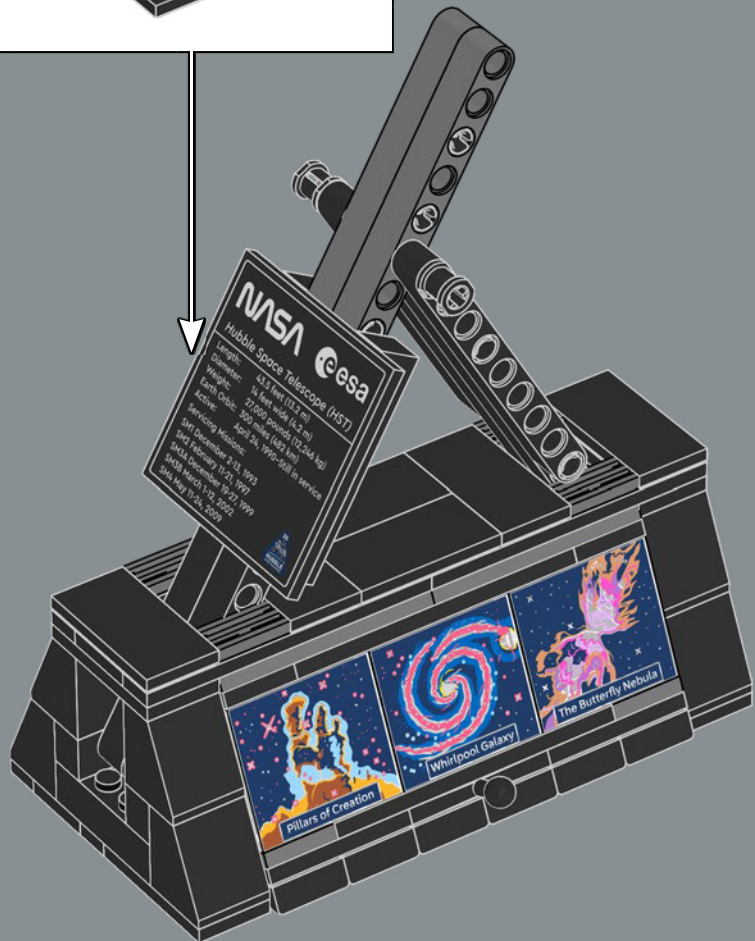
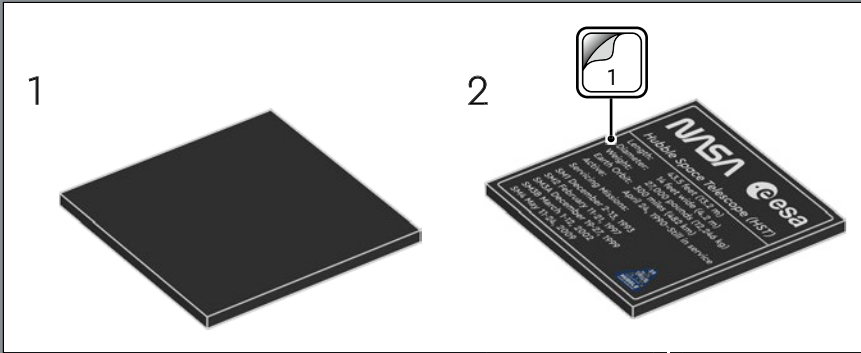


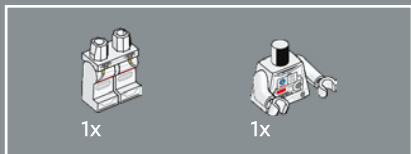
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32

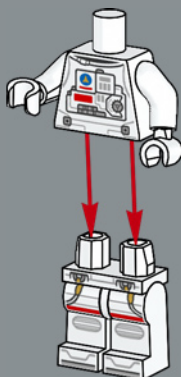




Even after more than 35 years in orbit, Hubble continues to deliver groundbreaking science and has inspired telescopes like the James Webb Space Telescope.

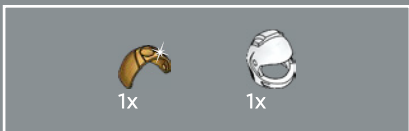
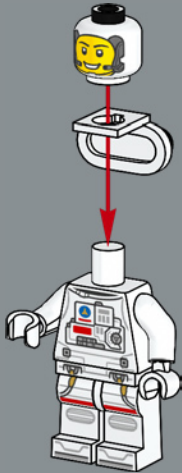


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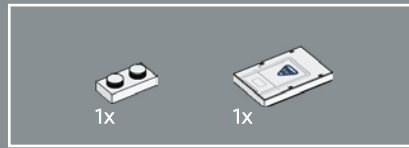
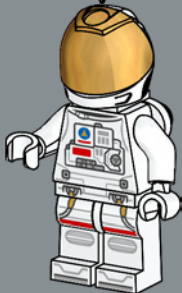
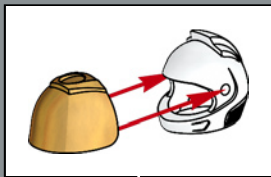




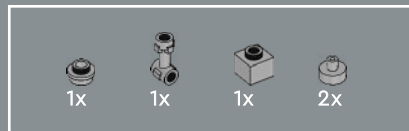
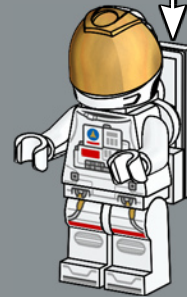
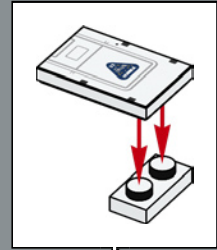
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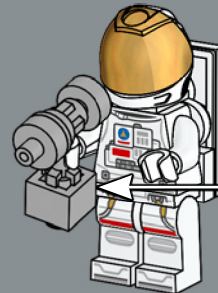
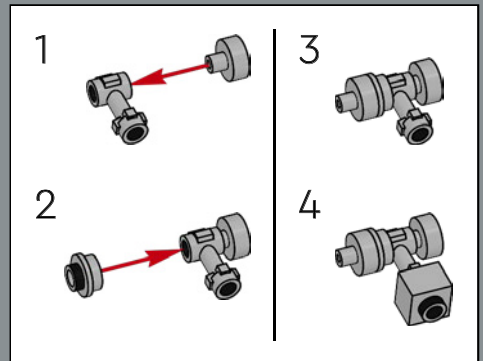
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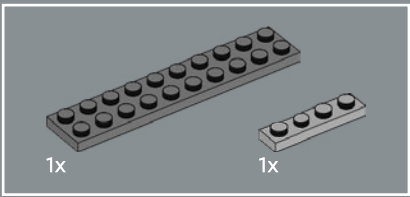


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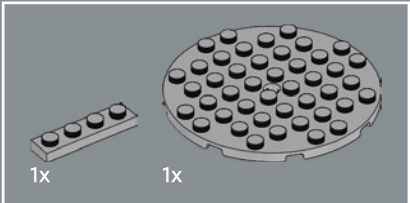
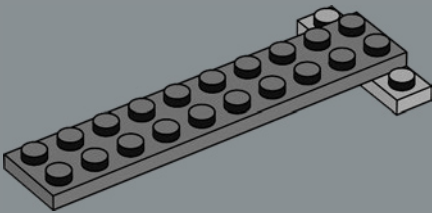


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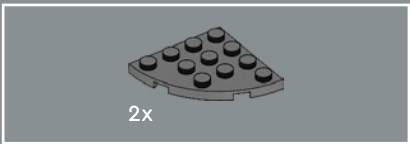
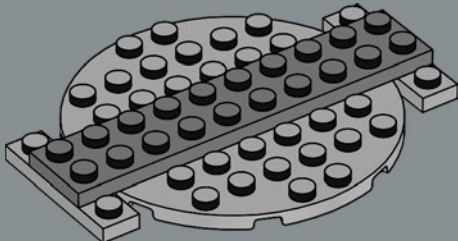




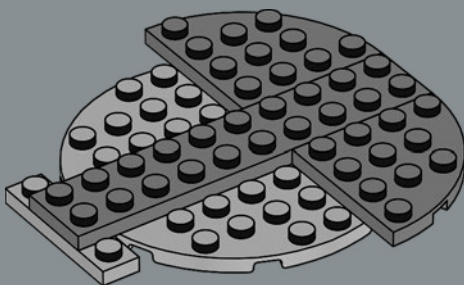
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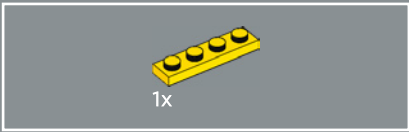


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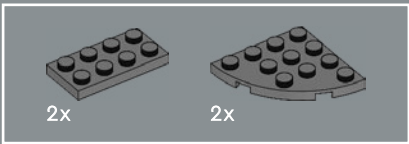
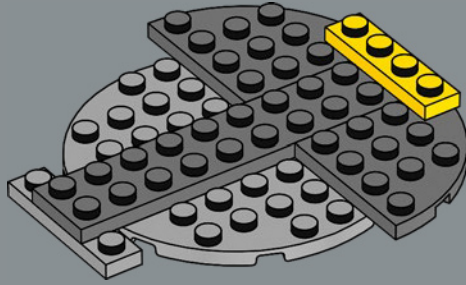


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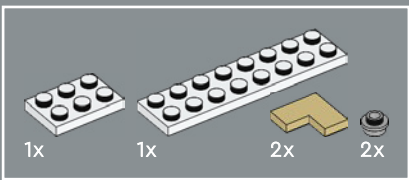
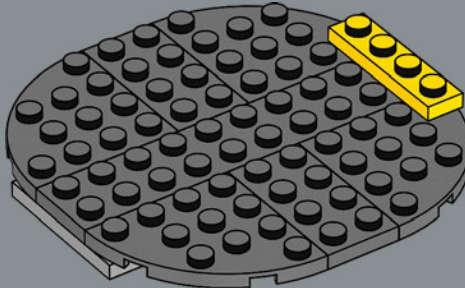




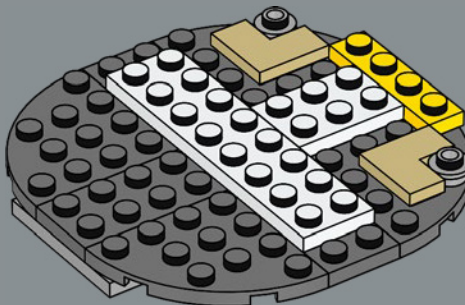
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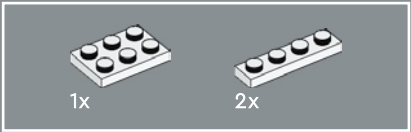


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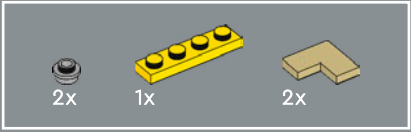
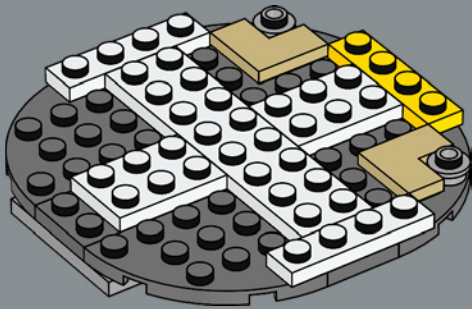


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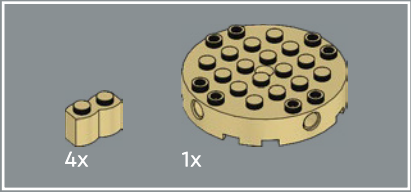
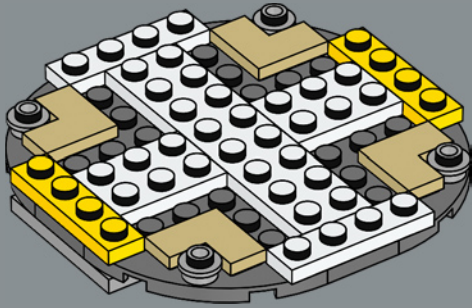




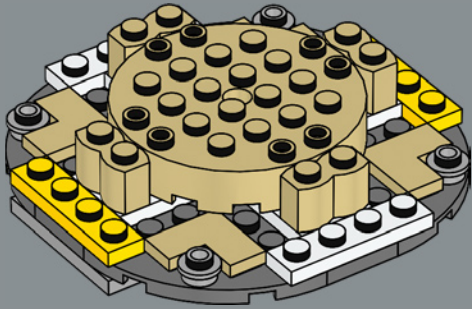
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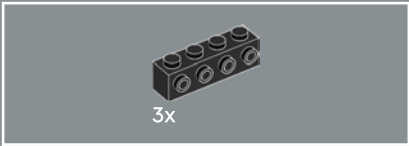


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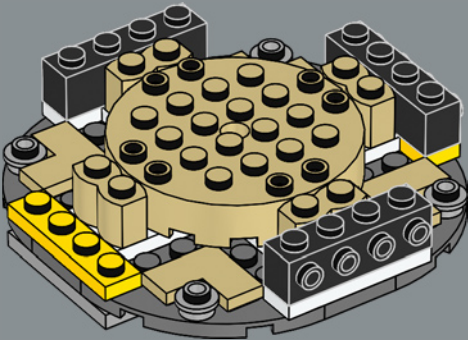


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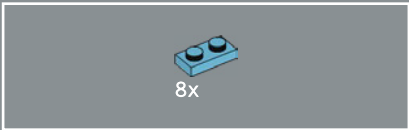
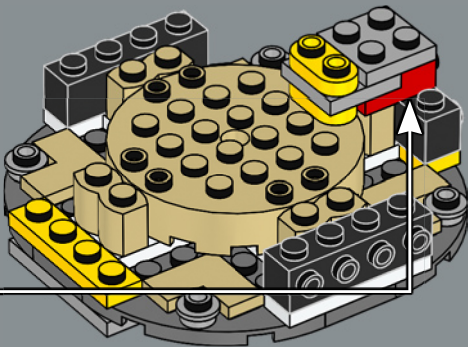
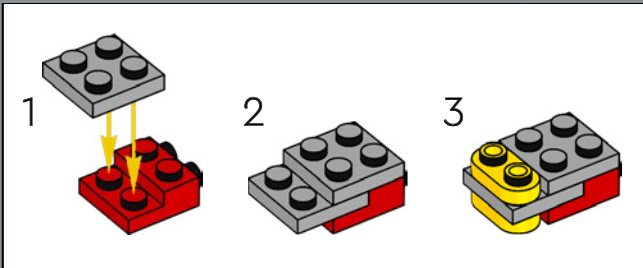




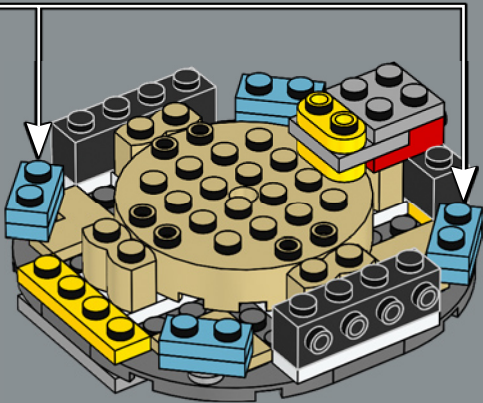
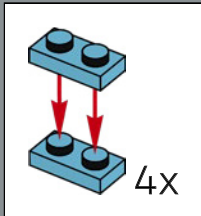
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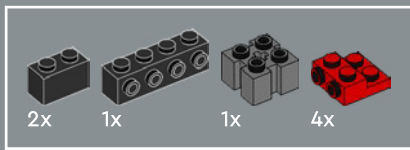


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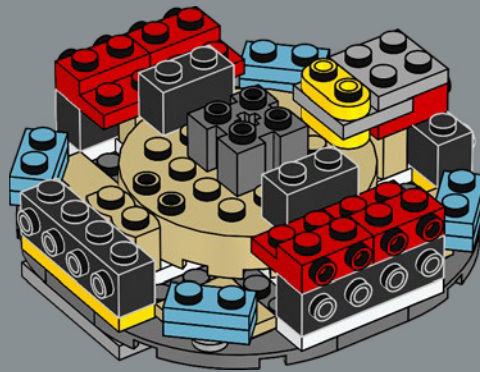


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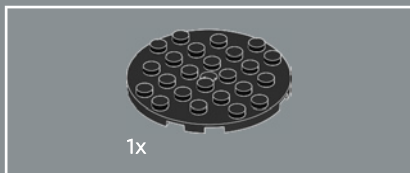
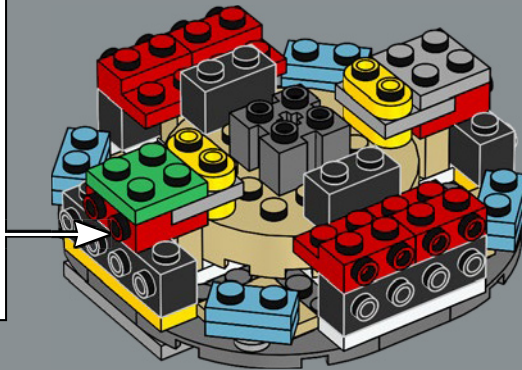
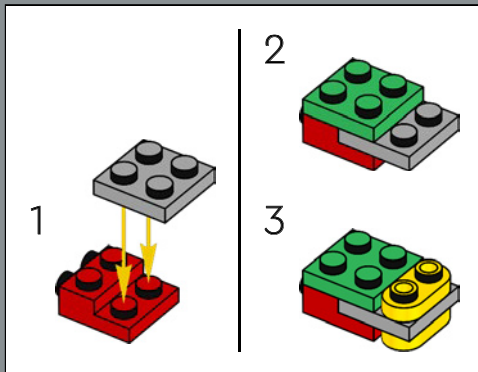




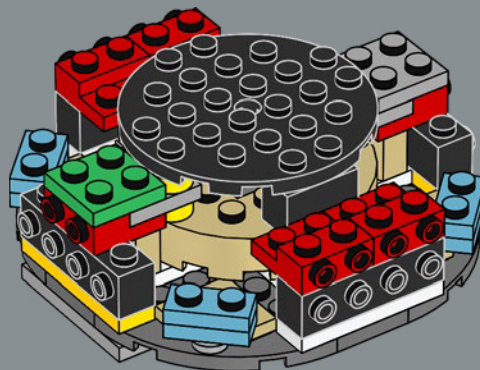
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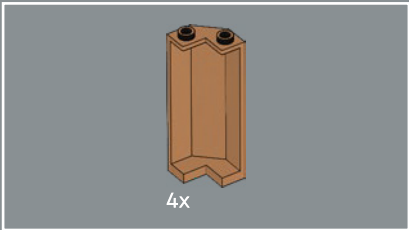
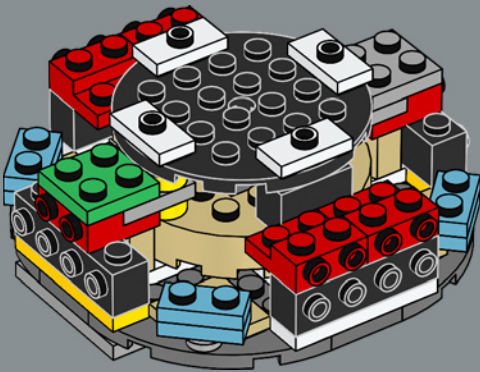


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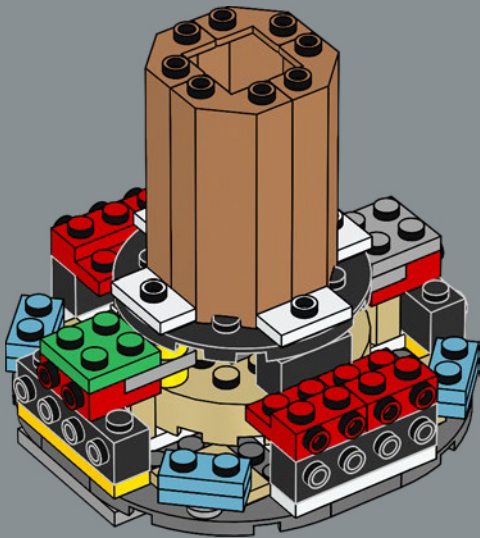


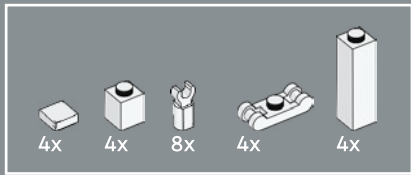


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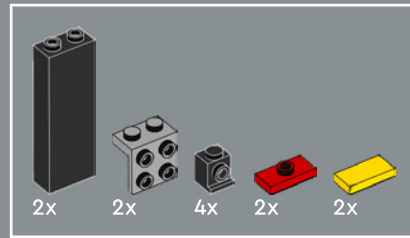
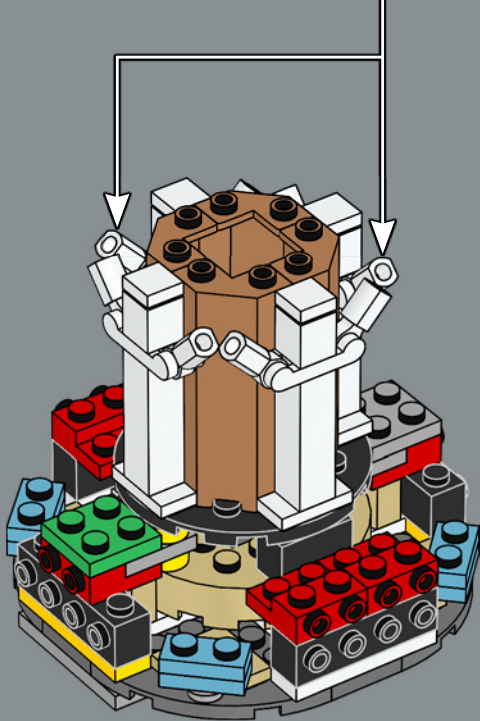
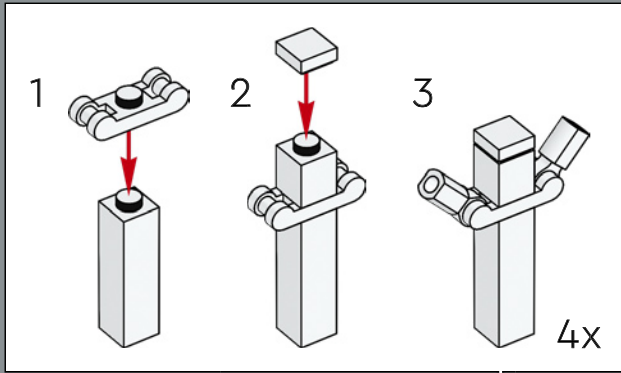


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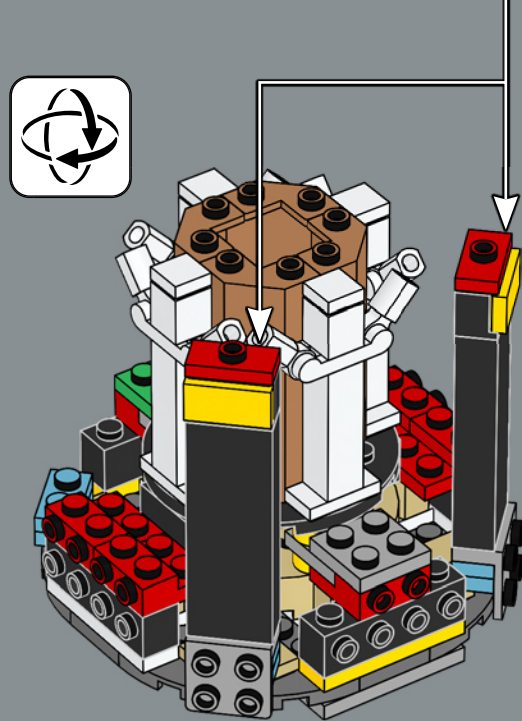
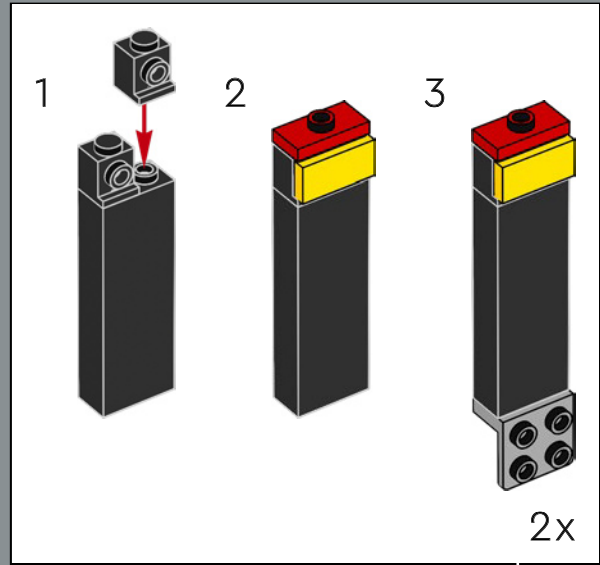


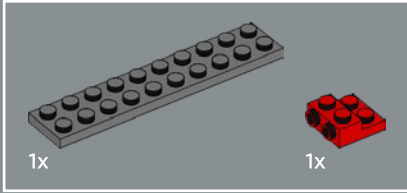
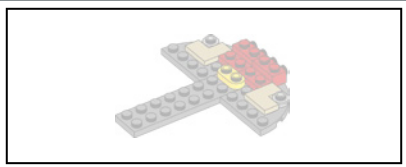


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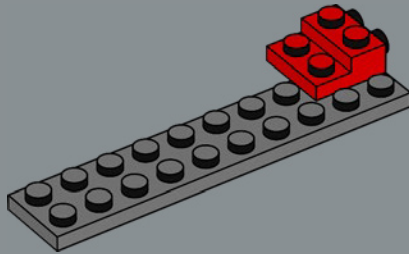


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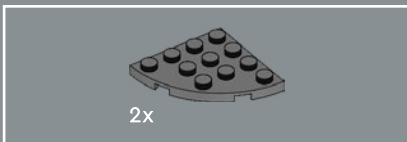
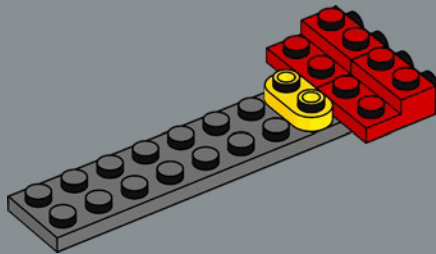




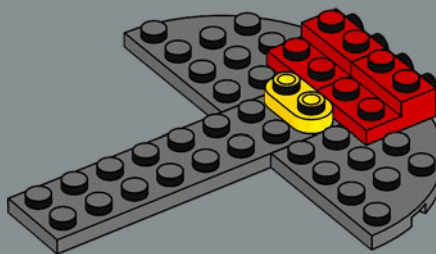
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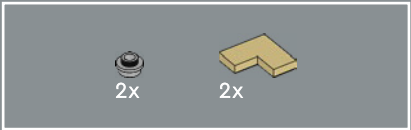


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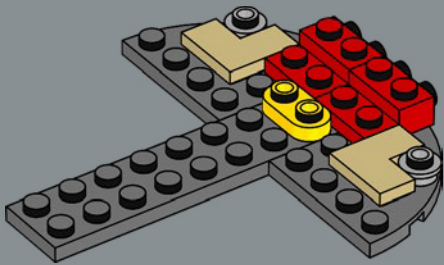


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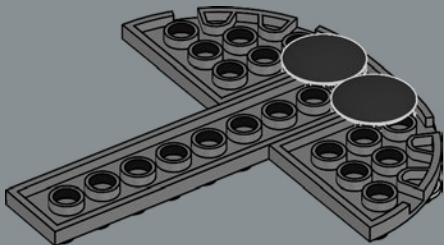




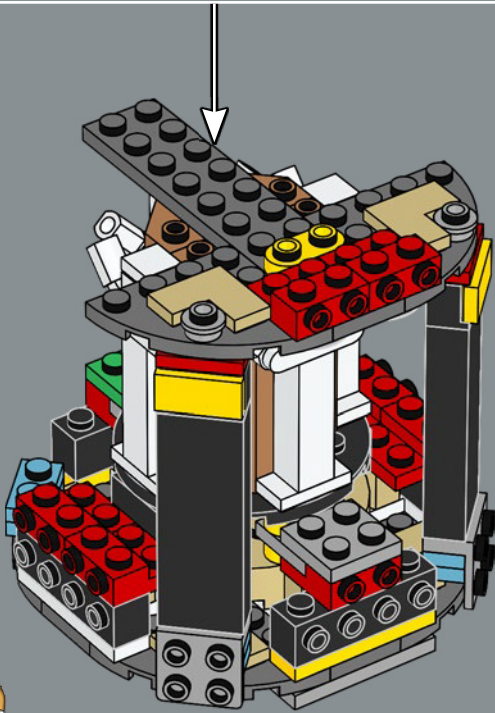
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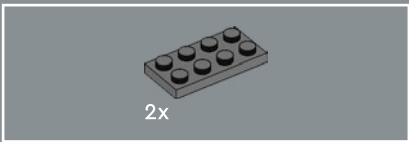


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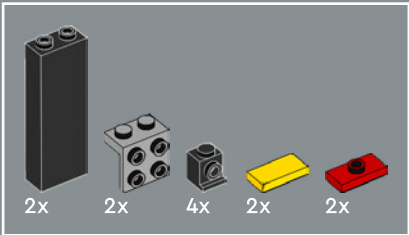
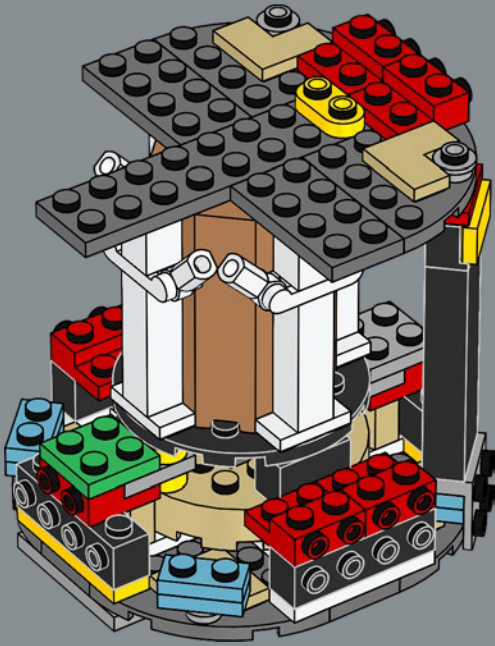


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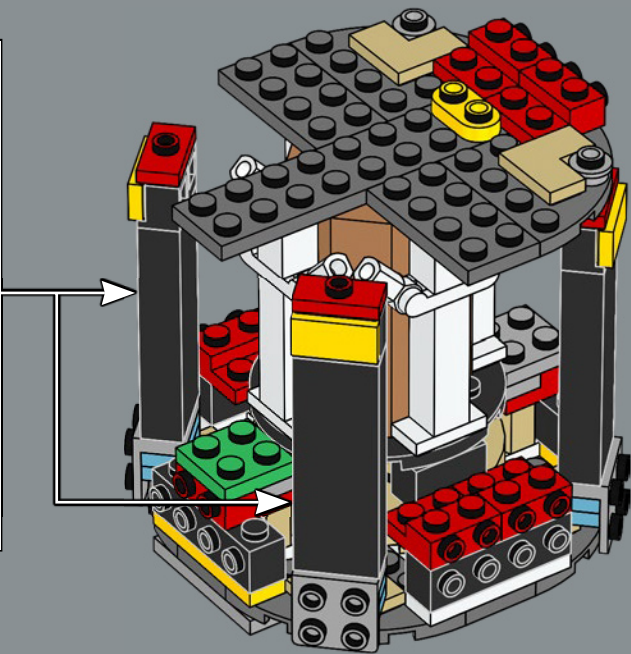
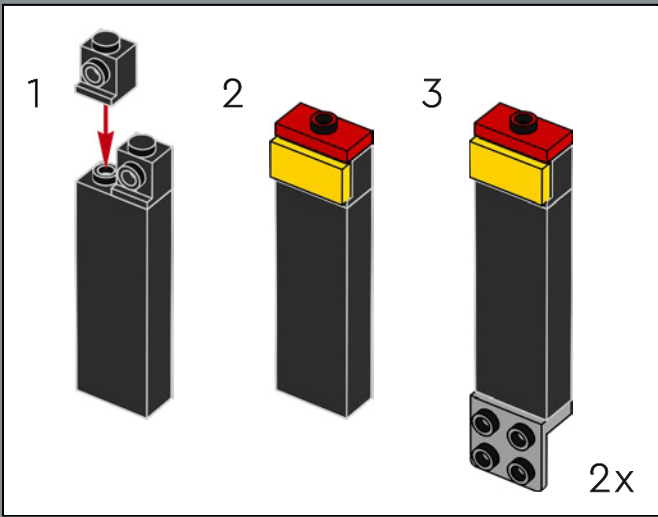


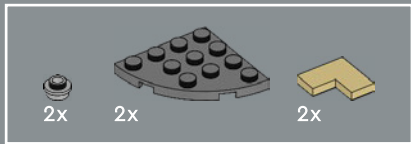


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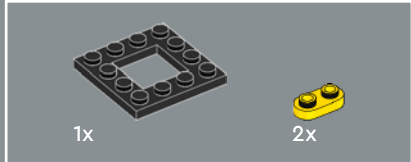
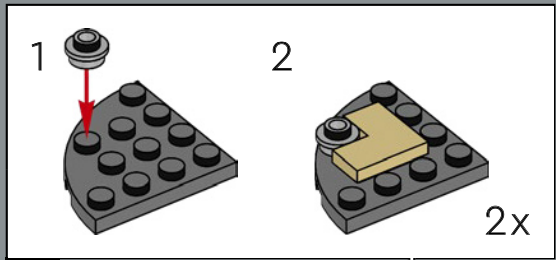


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65



66



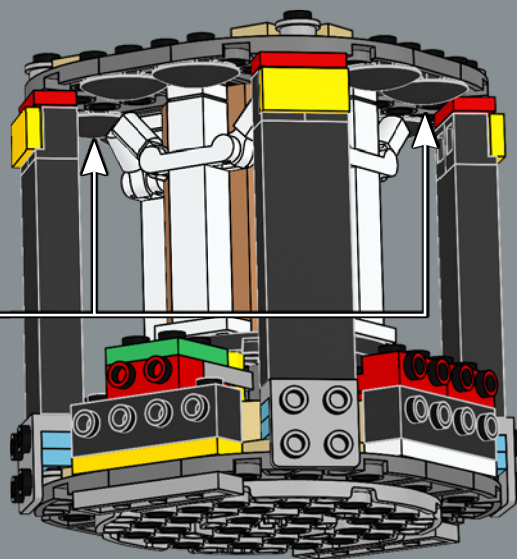


6x

67



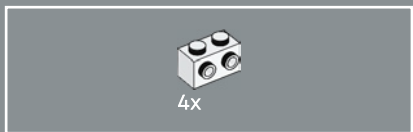
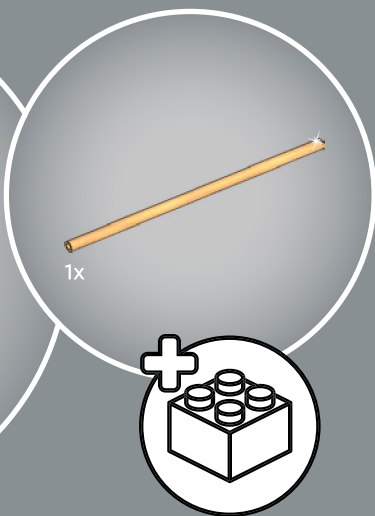
6x



4x

68

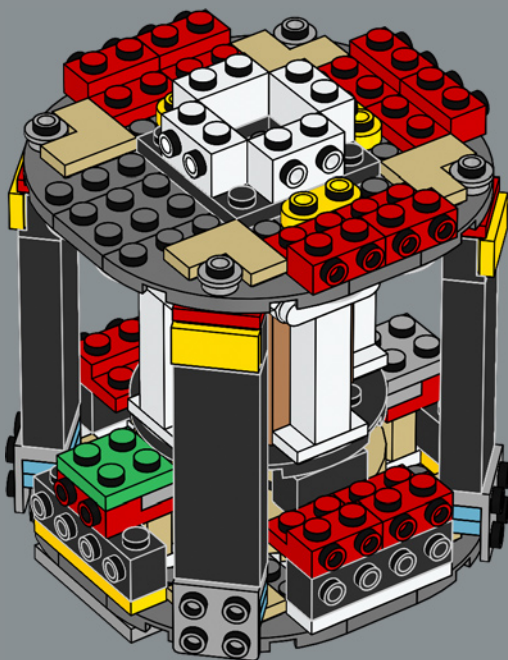




By using gravitational lensing, Hubble created maps of invisible dark matter in the universe.



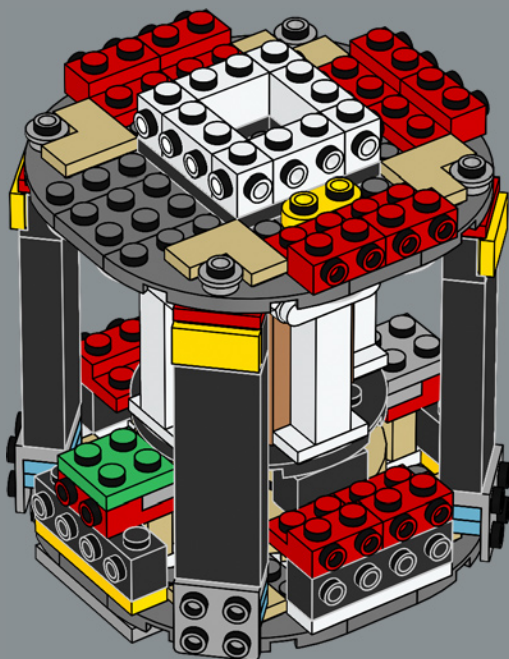
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4x

70

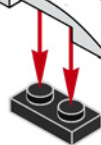
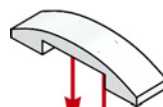
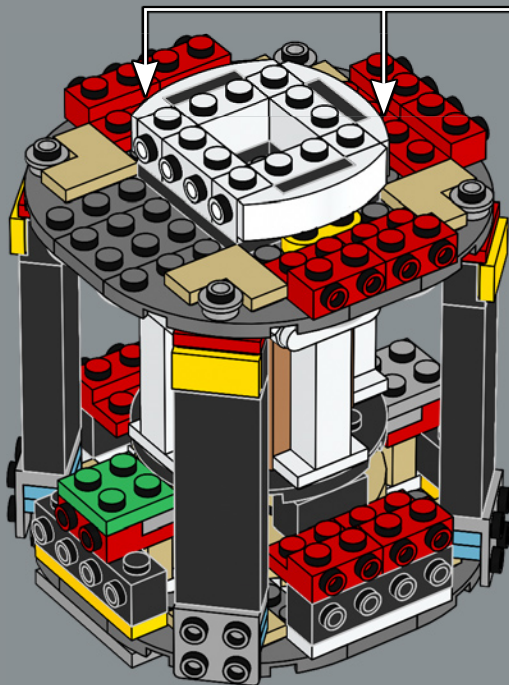


3x

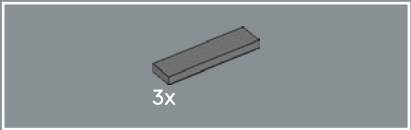


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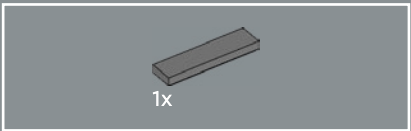
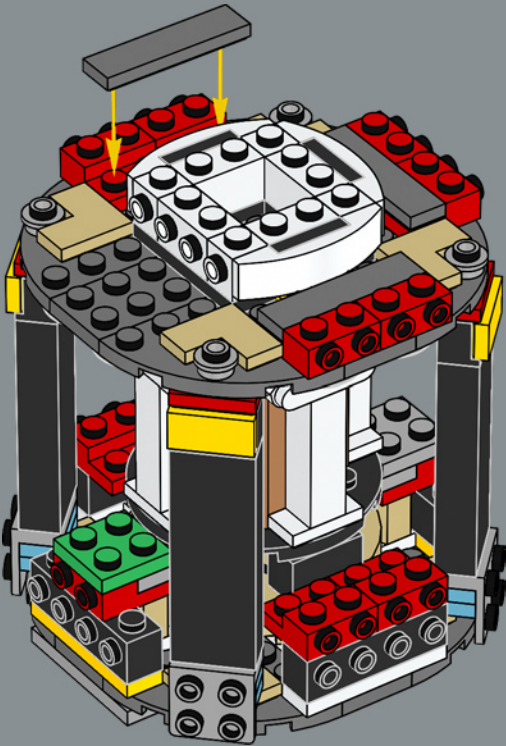
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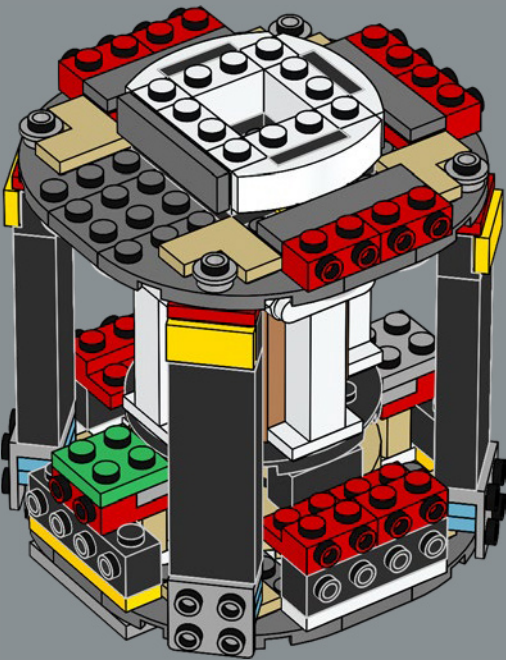
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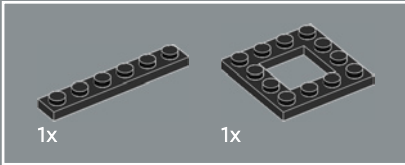
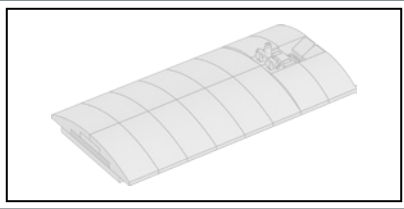


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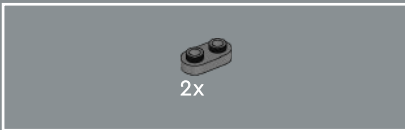
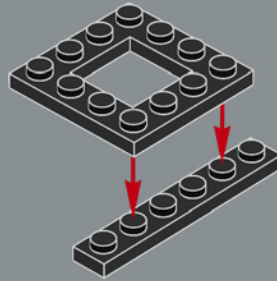


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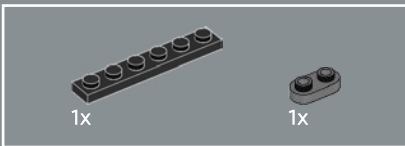
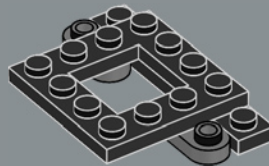




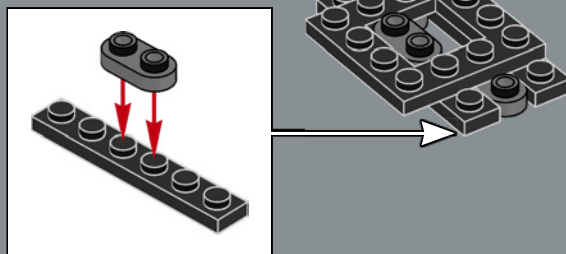
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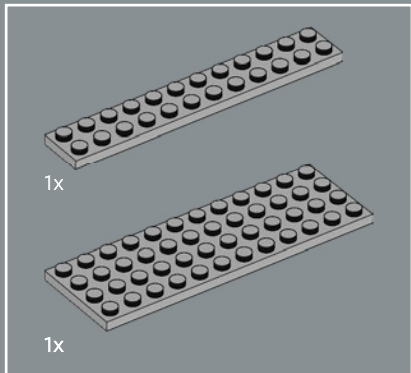


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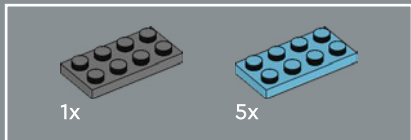
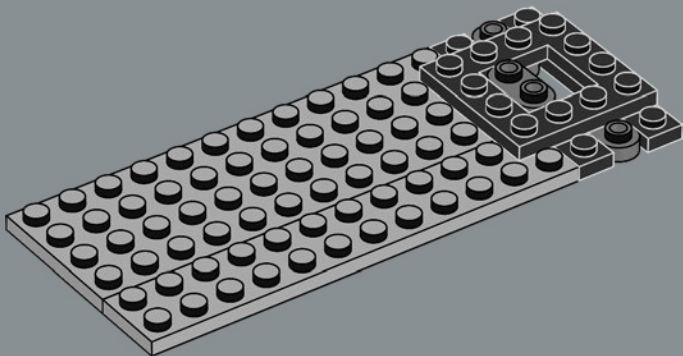


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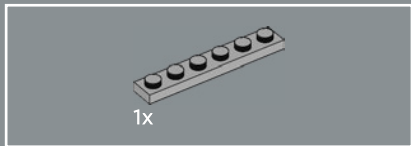
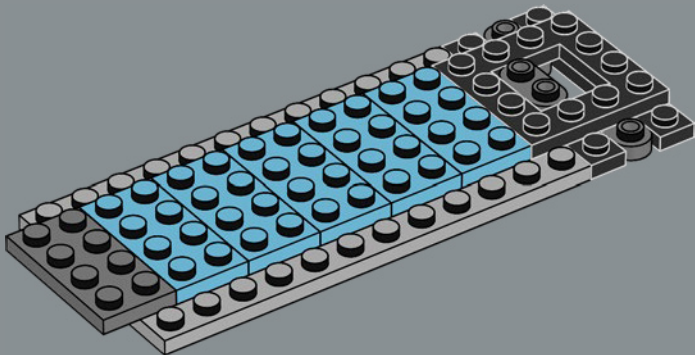




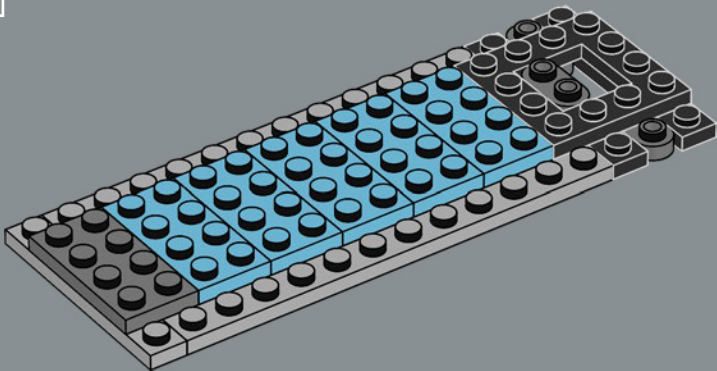
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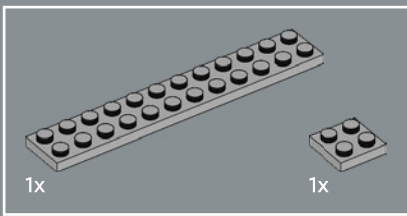


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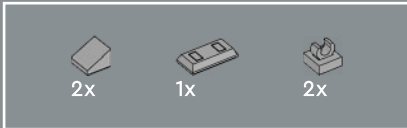
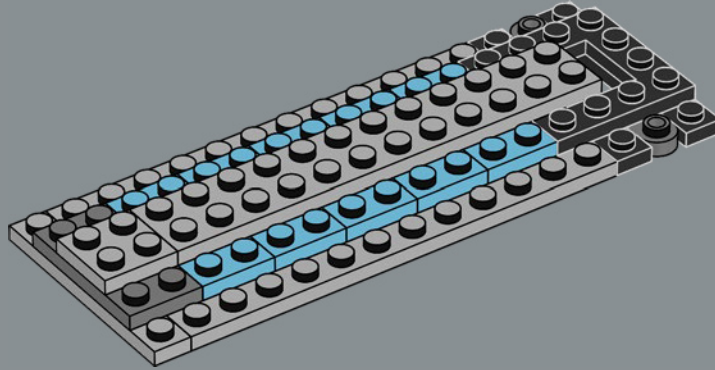


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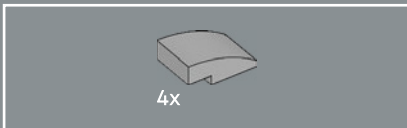
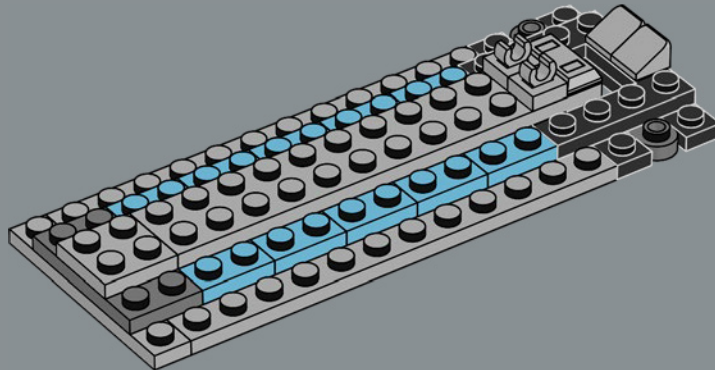




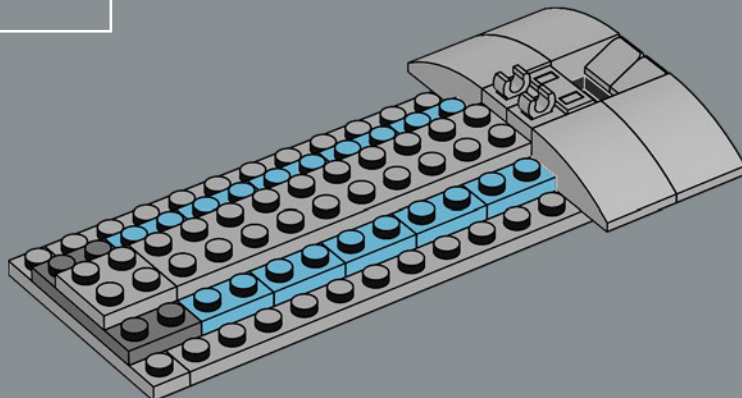
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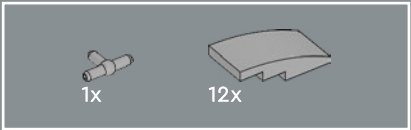


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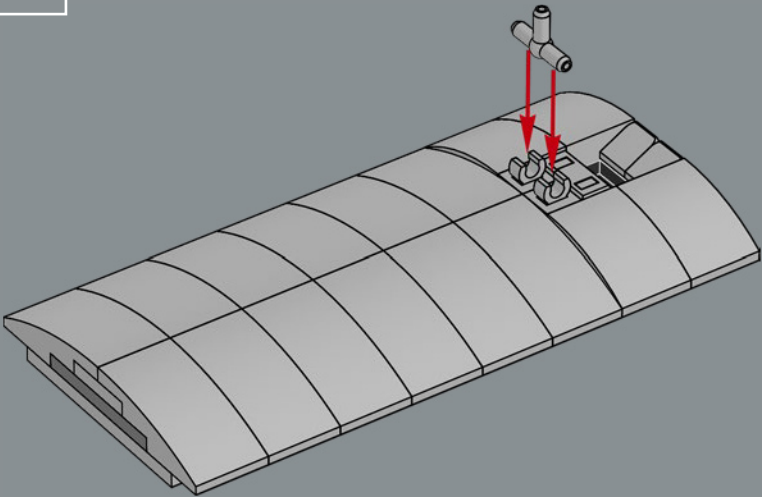


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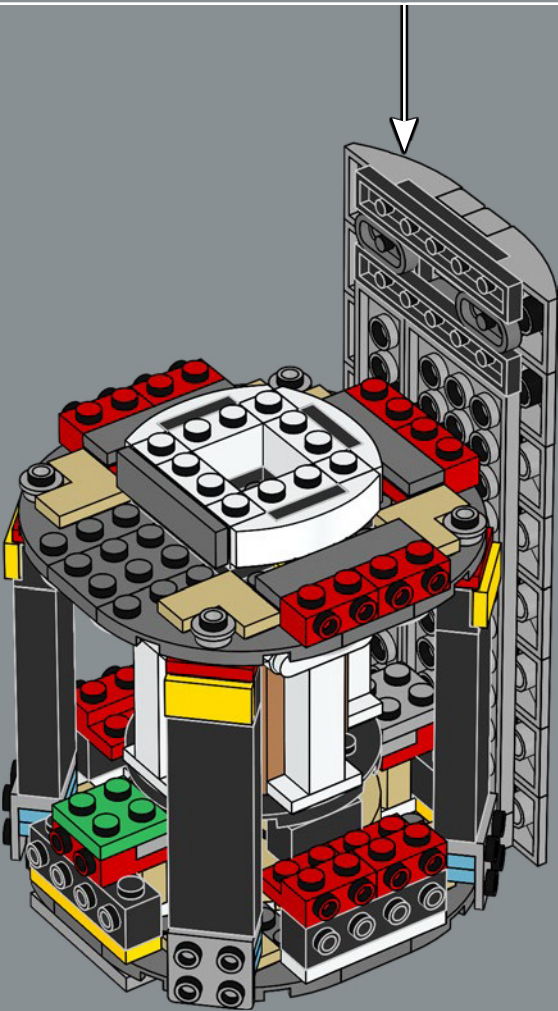


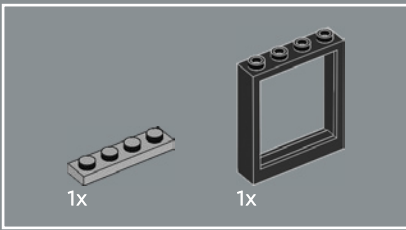


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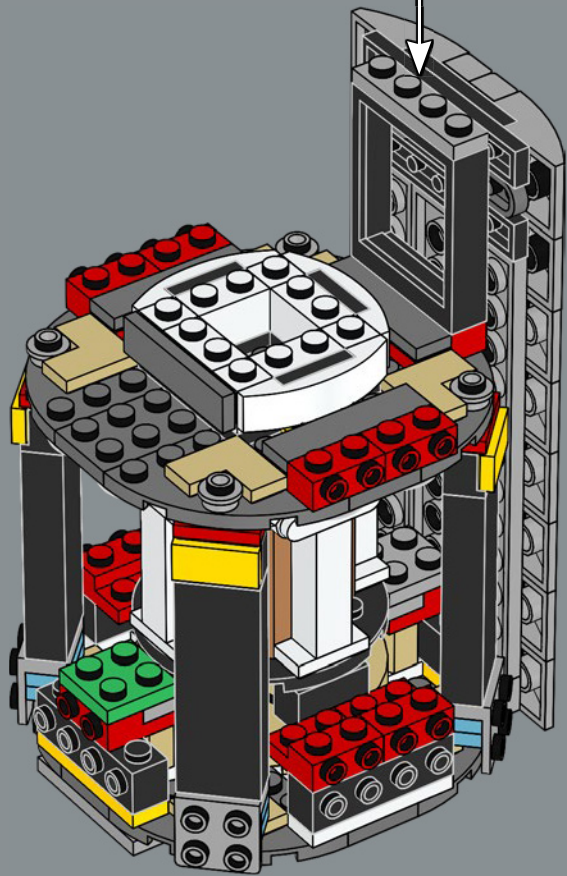
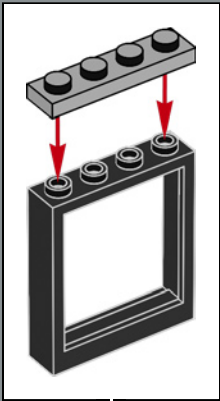


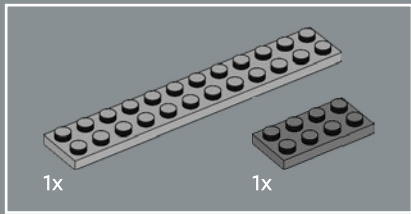
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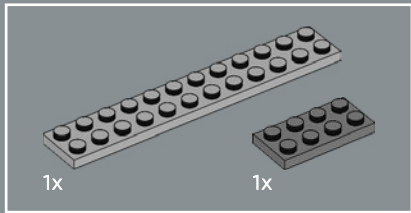
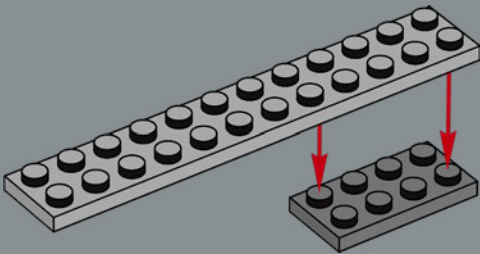


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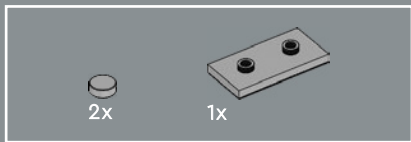
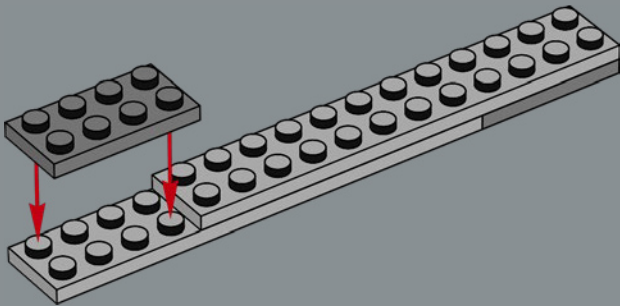




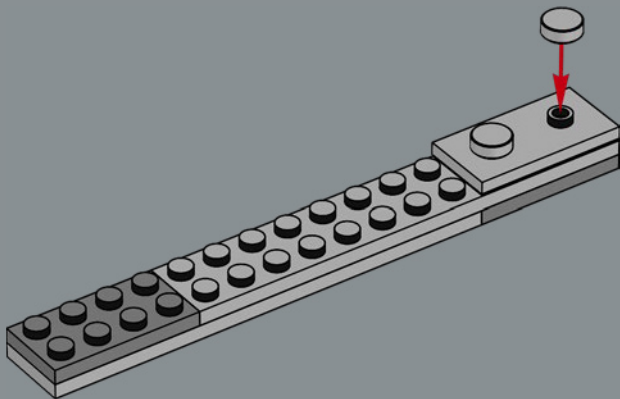
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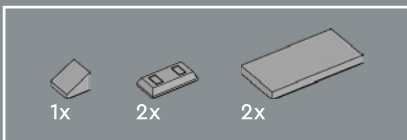


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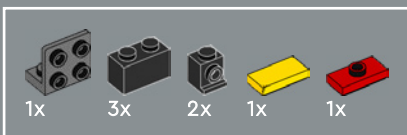
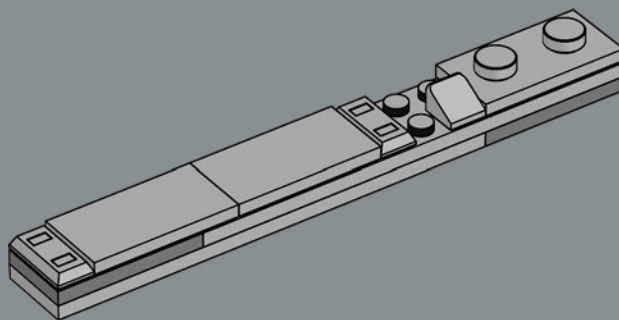


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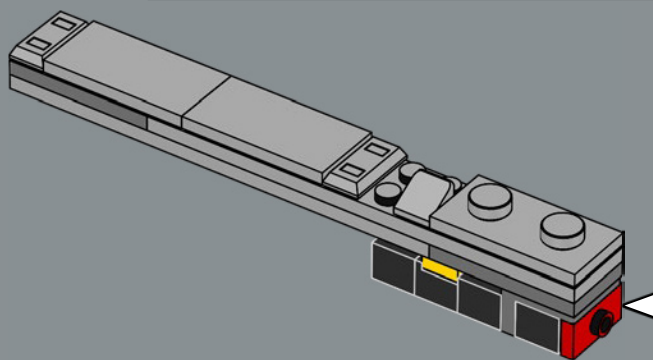
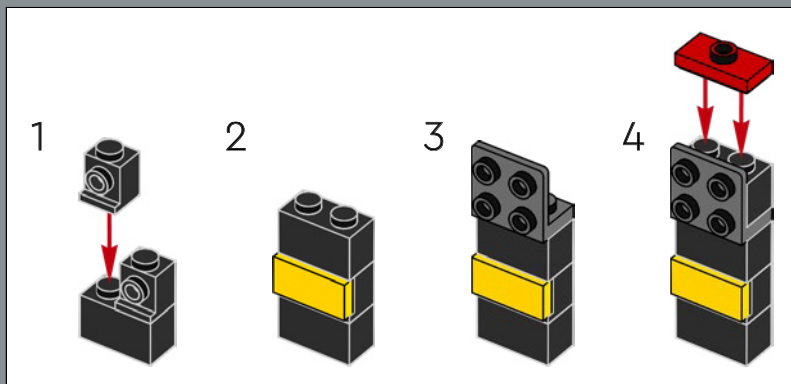


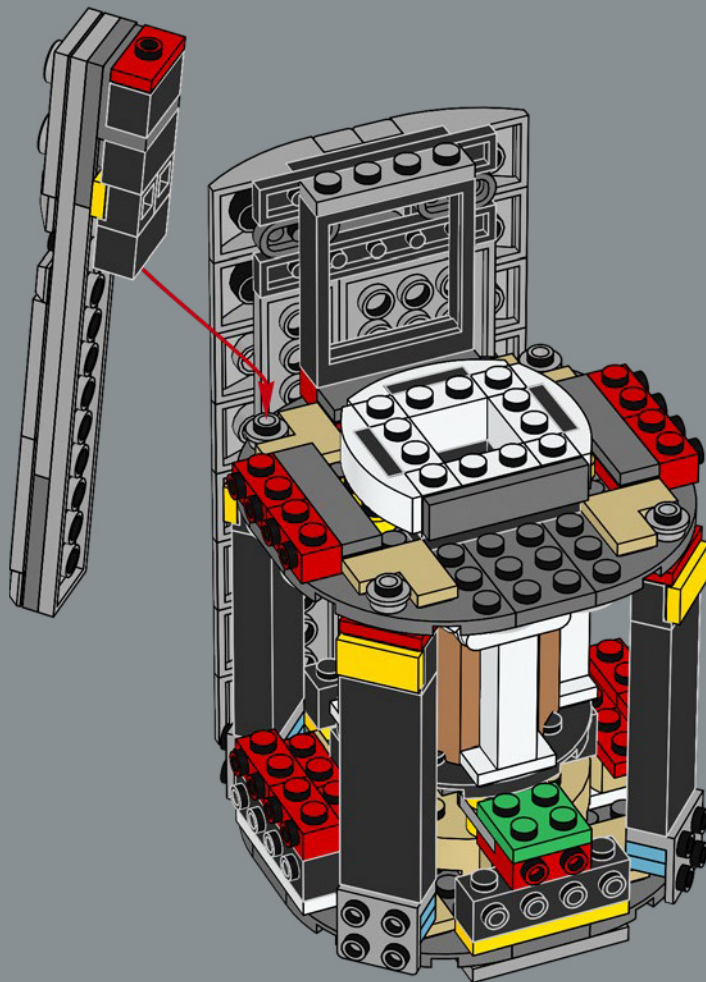


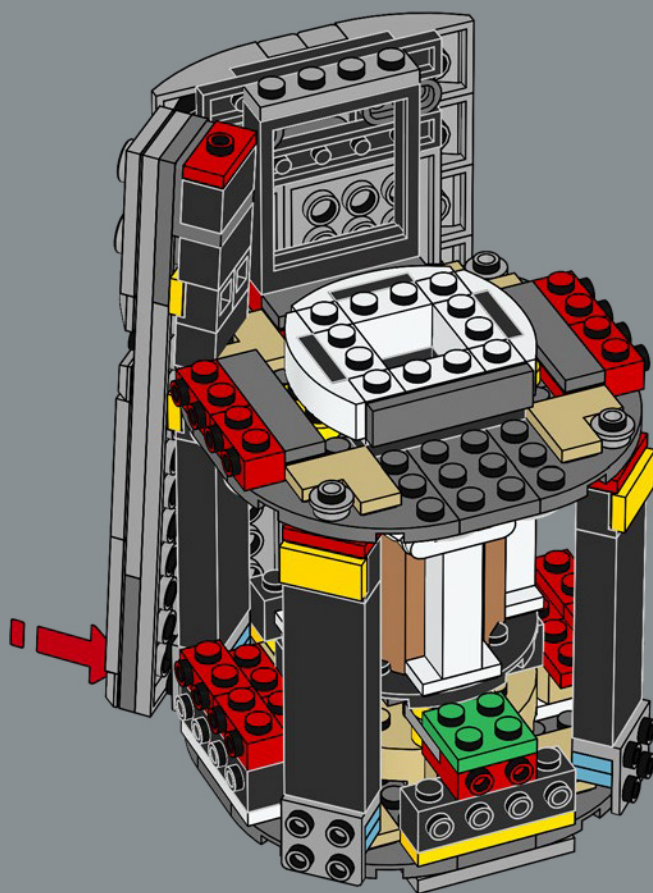
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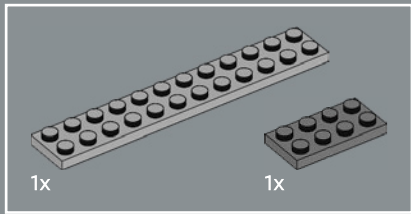


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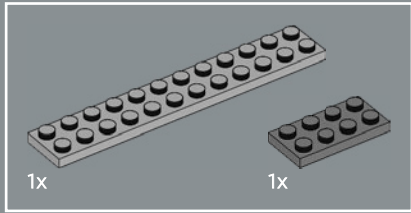
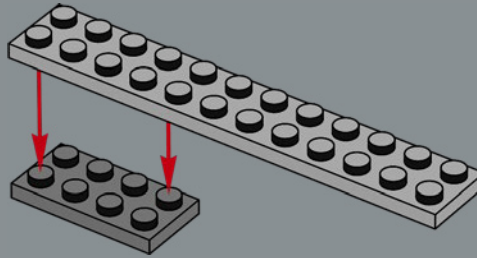




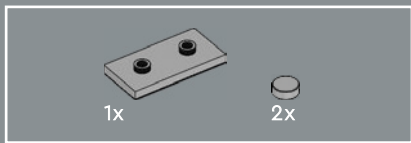
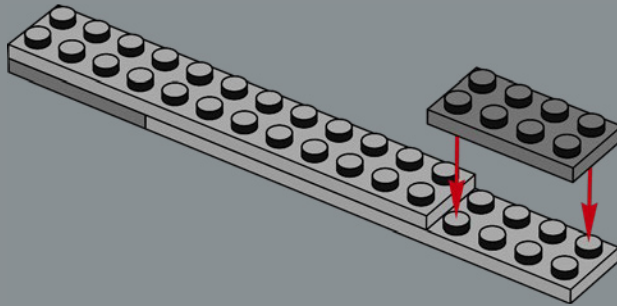




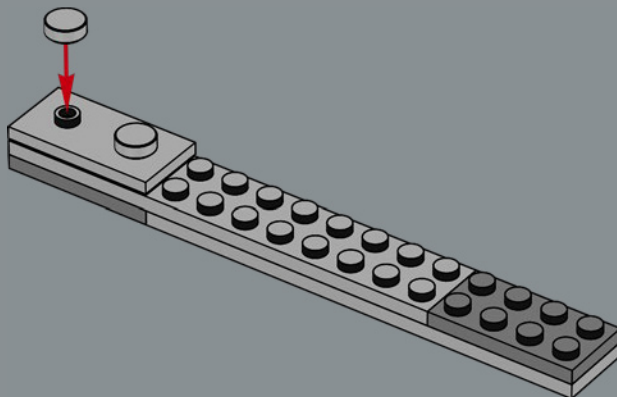
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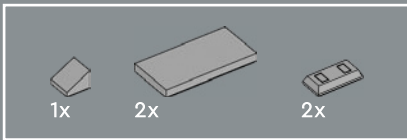


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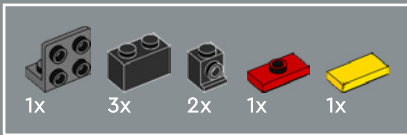
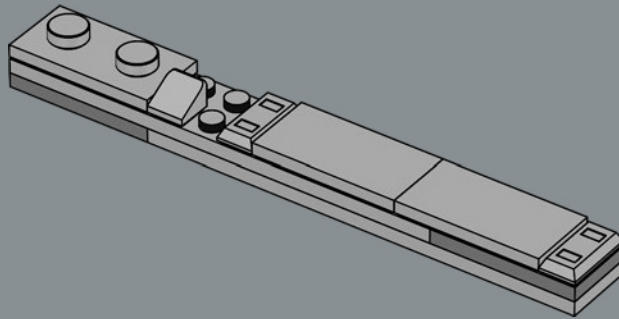


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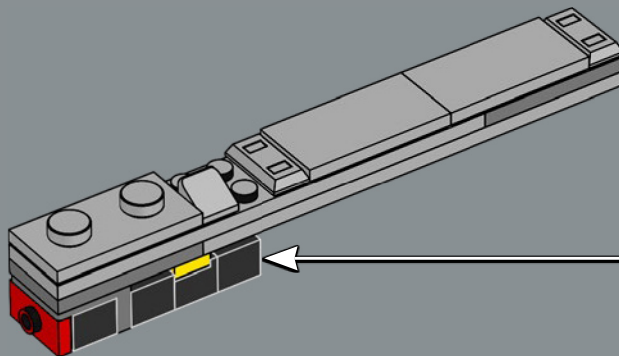
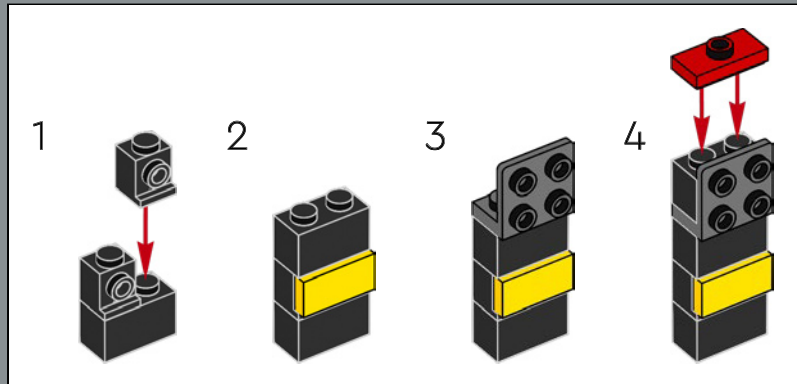


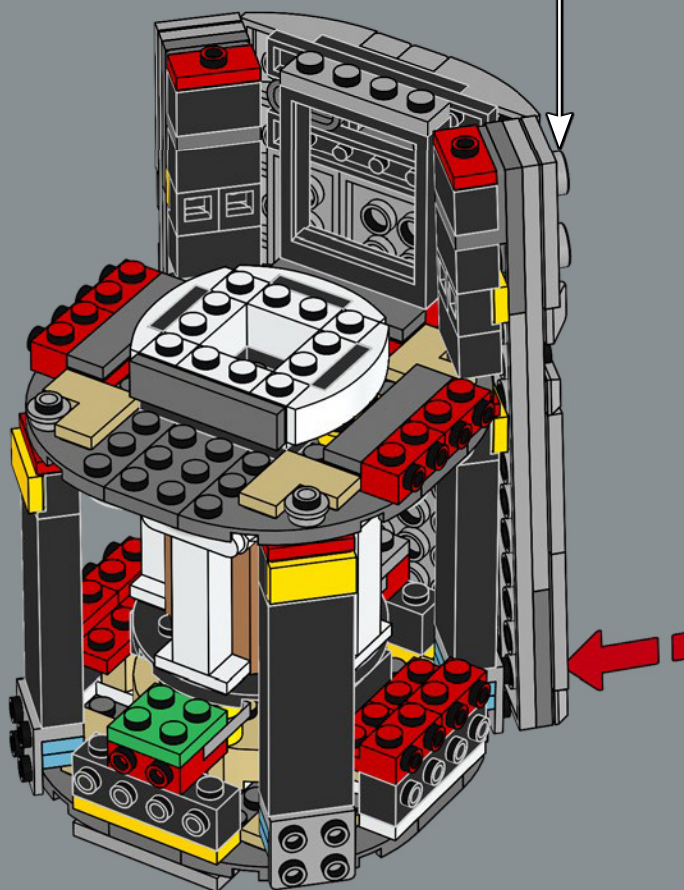


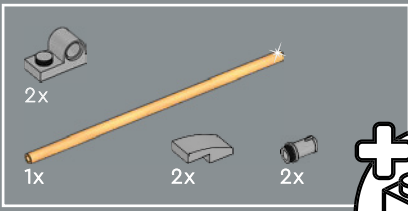
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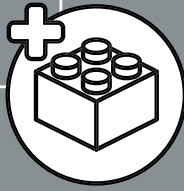
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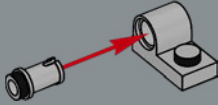




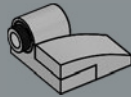
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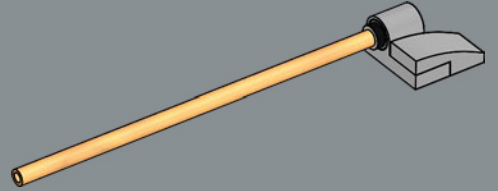
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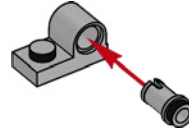
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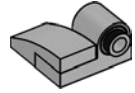
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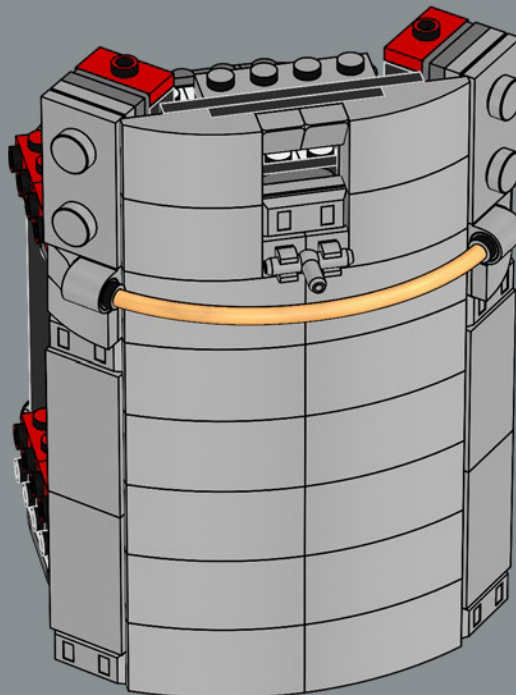
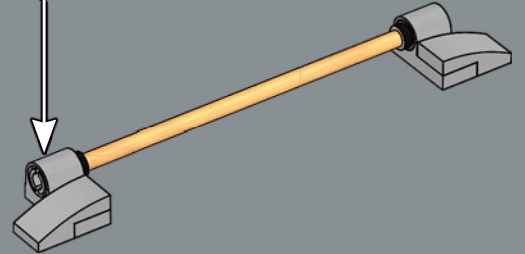
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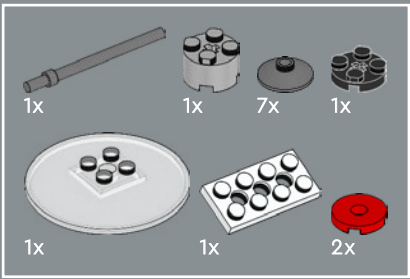


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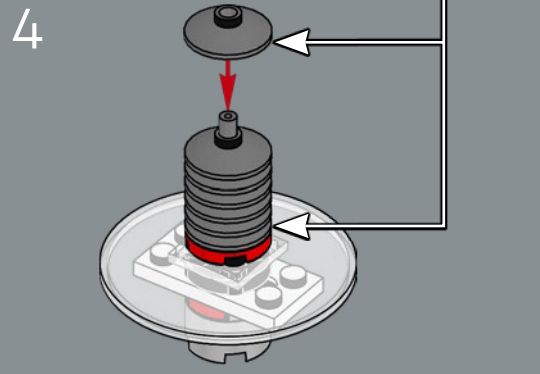
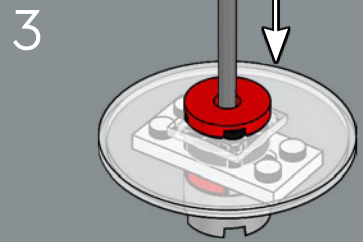
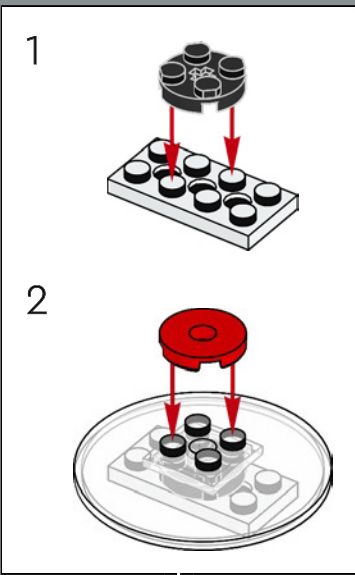
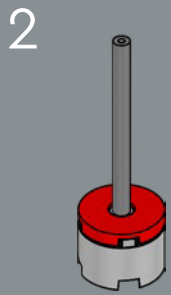
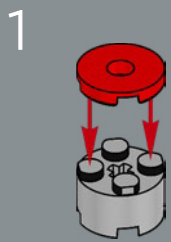


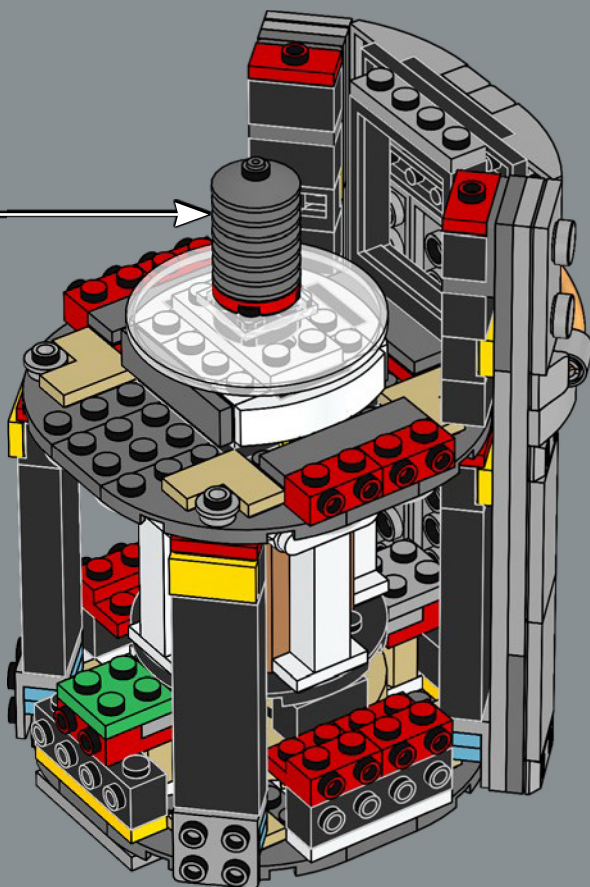
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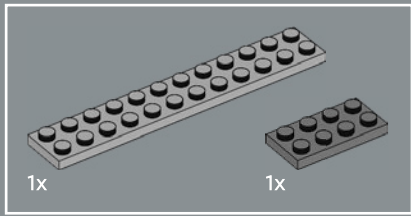




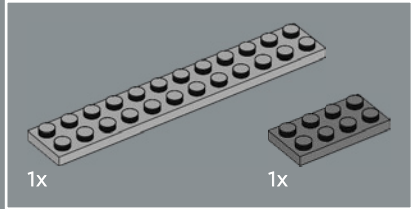
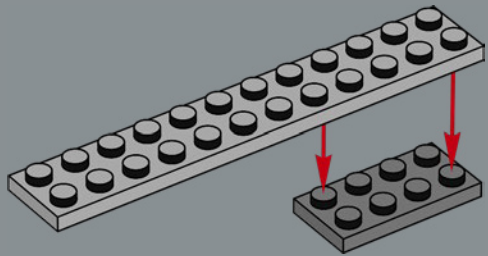
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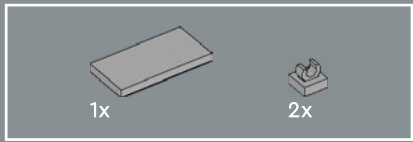
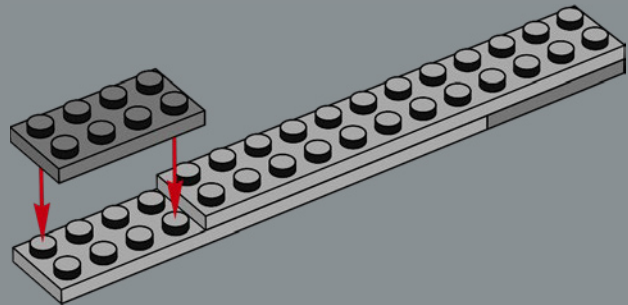




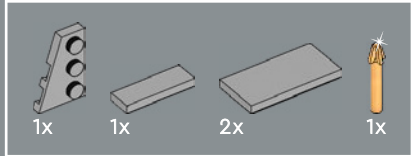
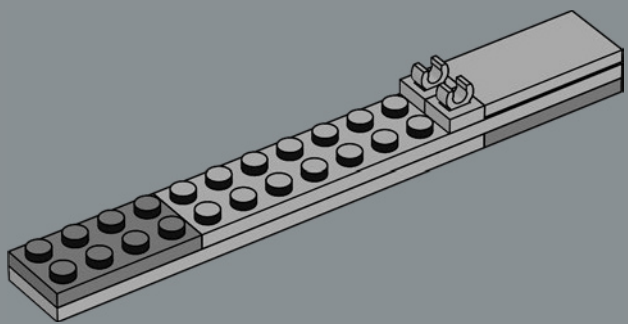
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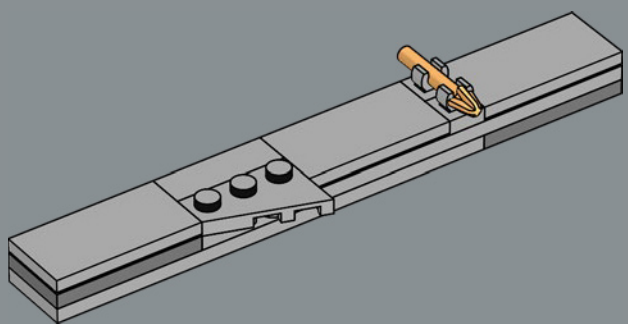
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103



104

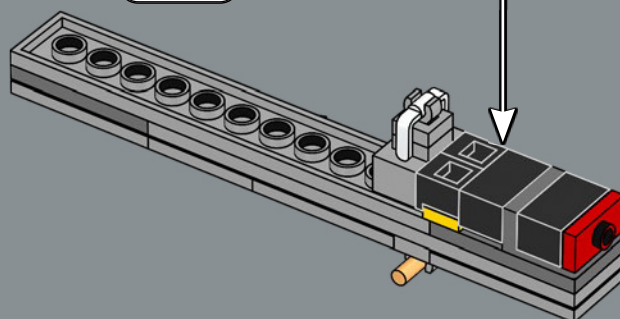
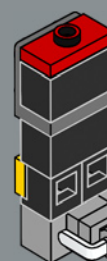


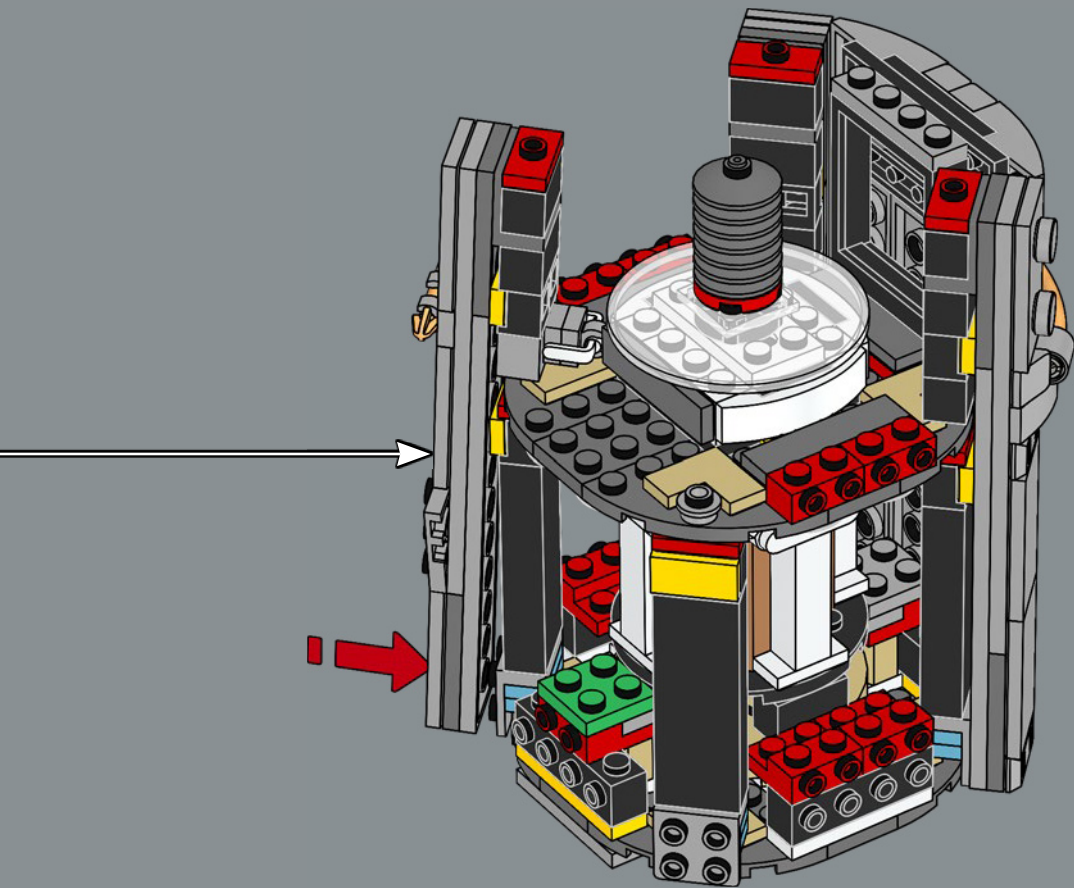


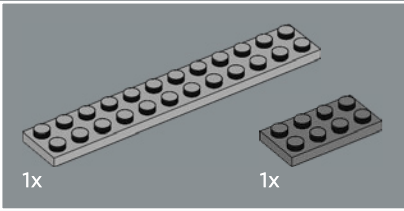
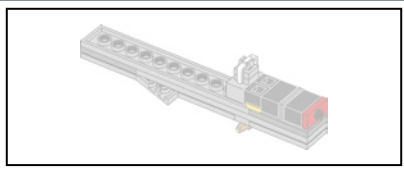
The diagram shows the assembly of a 2x4 brick. A 1x2 brick with a hole is shown being placed on top of a 2x4 brick. A red arrow indicates the placement of the 1x2 brick with a hole onto the 2x4 brick. A white arrow points from a separate 1x2 brick with two holes to the 2x4 brick, indicating its placement.



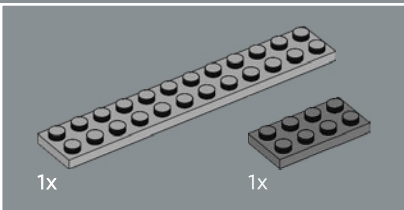
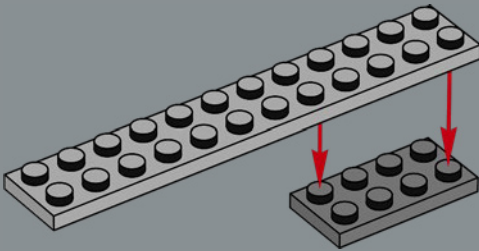
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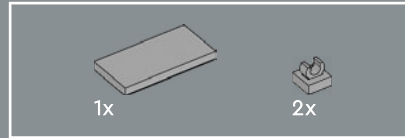
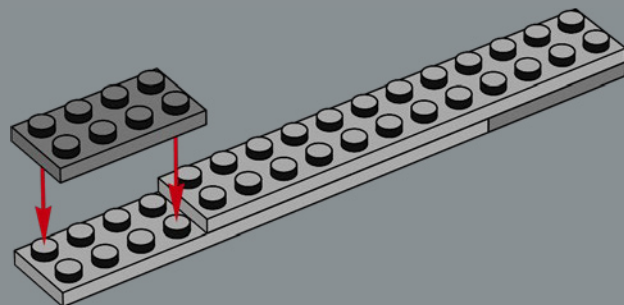




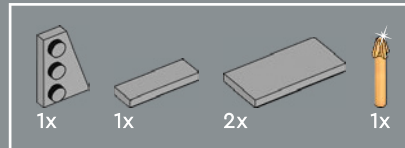
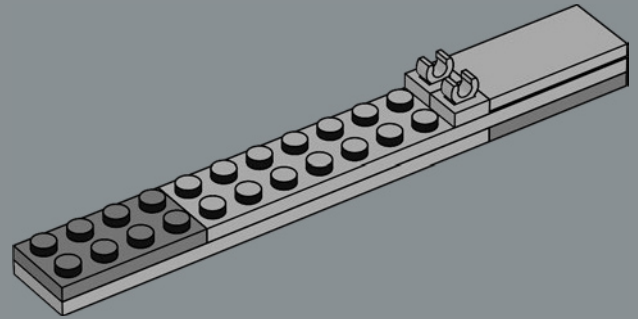
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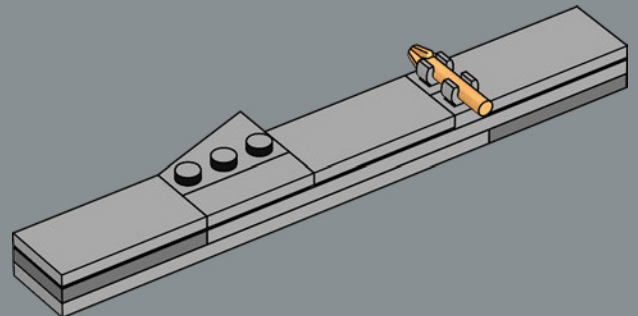
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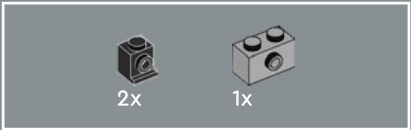


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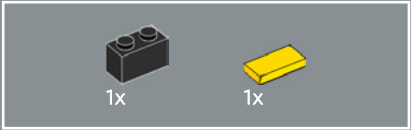
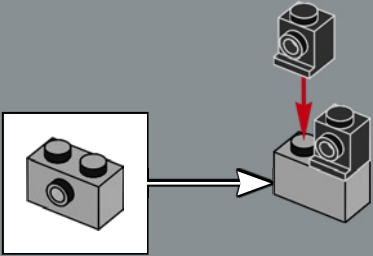


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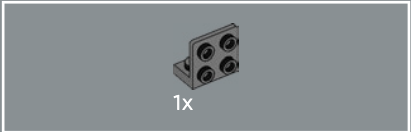
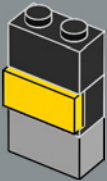




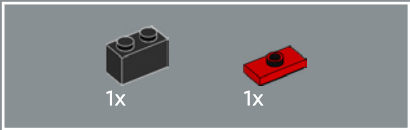
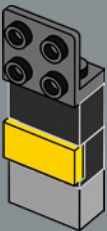
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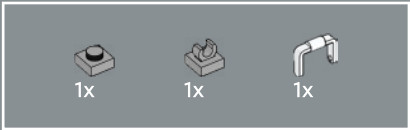
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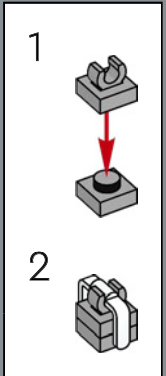
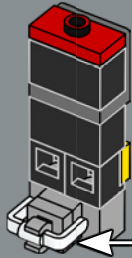
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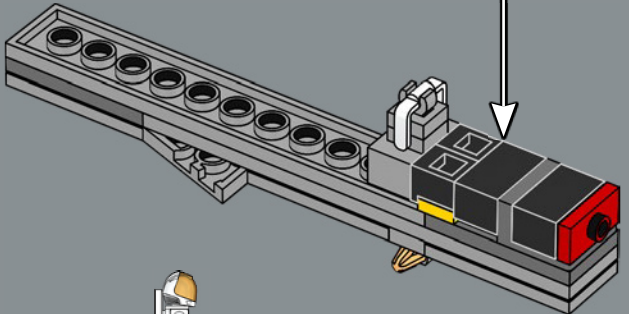
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120



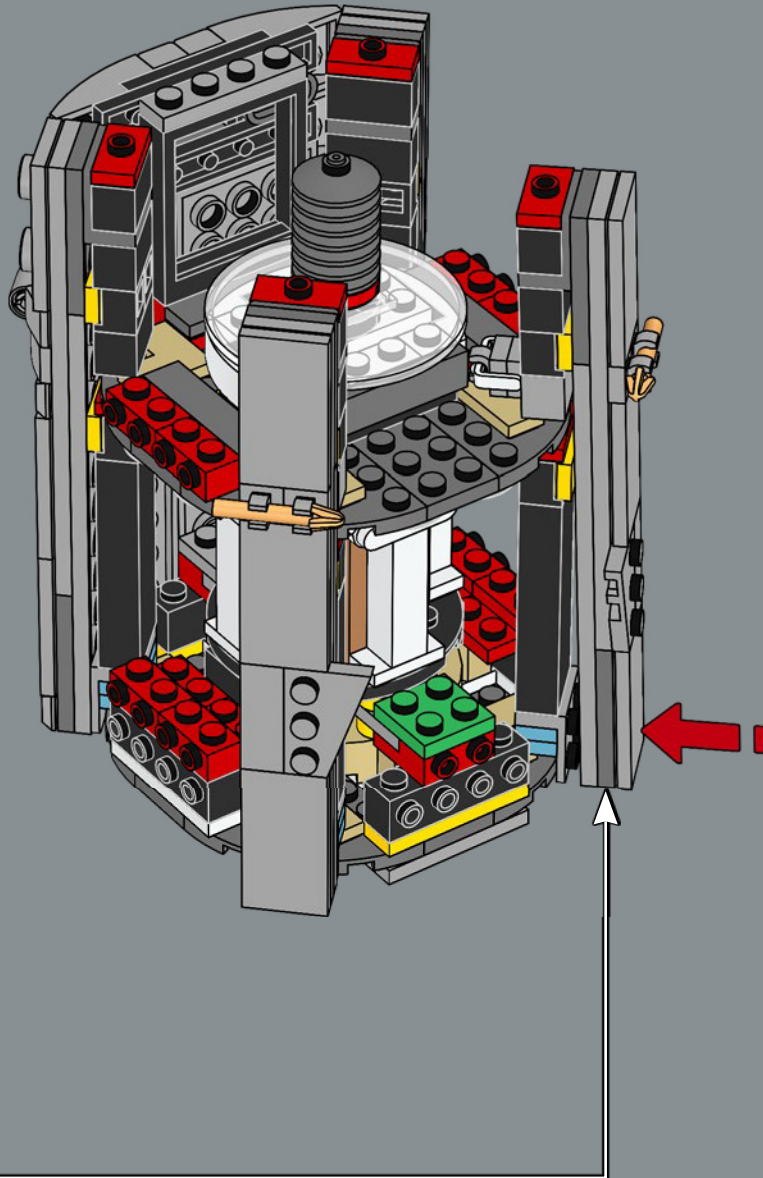
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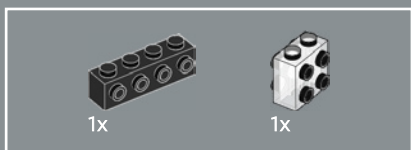
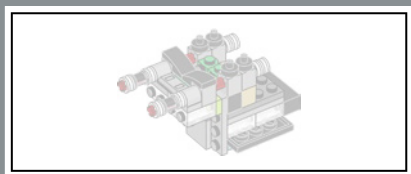


Lost in space? A GPS covering the universe probably won't be ready for a while... To date, a mere 0.1% of the sky has been observed.

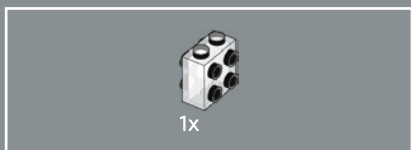
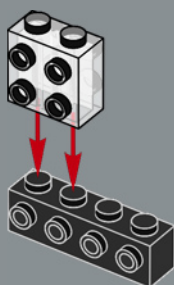


122

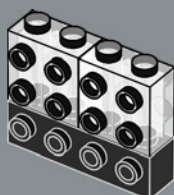




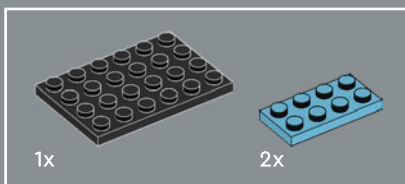
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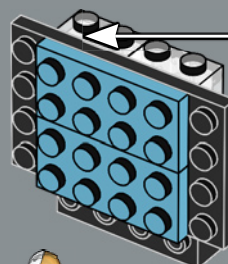
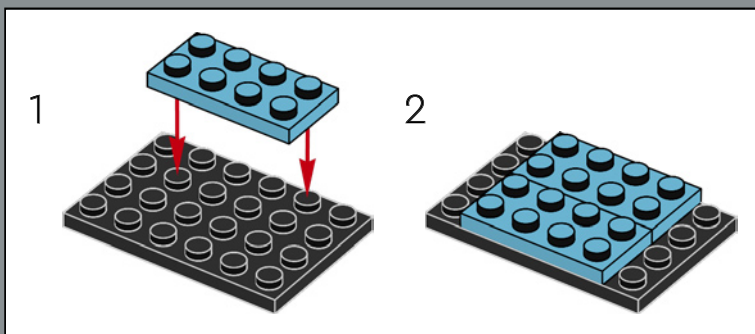
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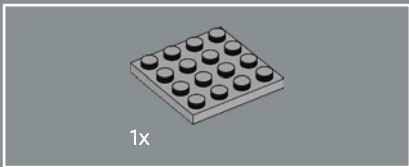


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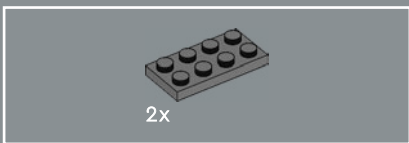
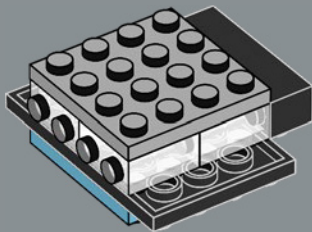


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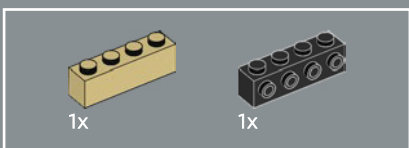
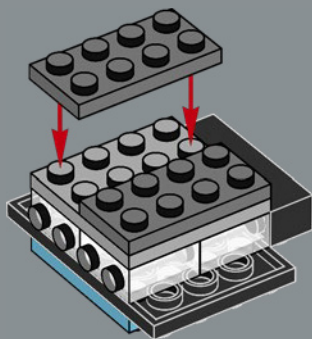




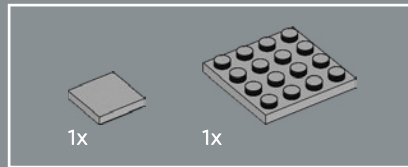
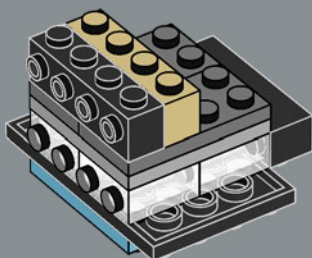
127



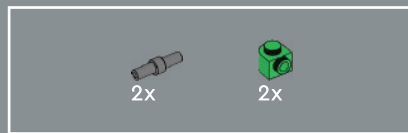
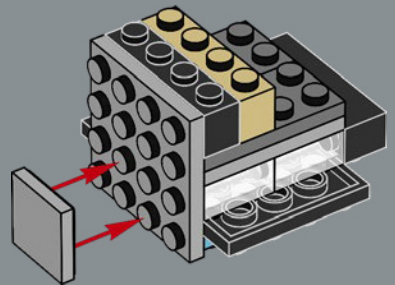
128



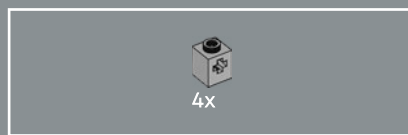
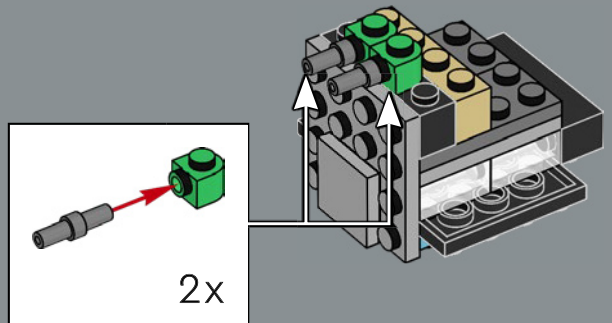
129



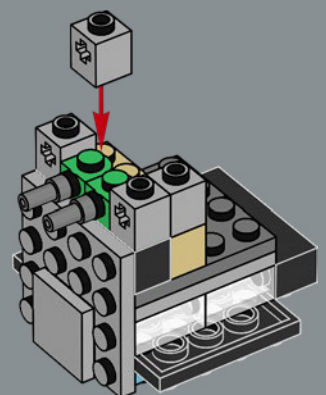
130



131

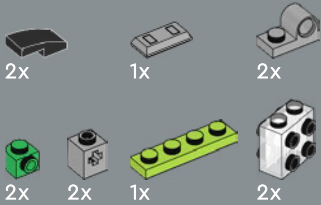
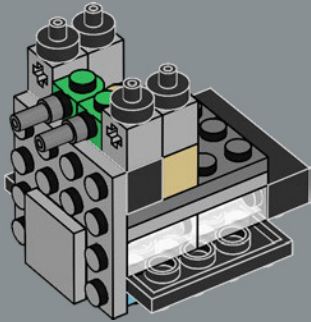


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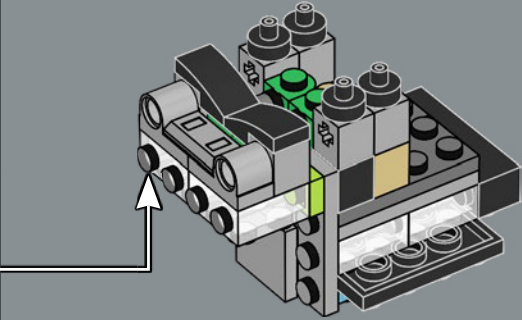
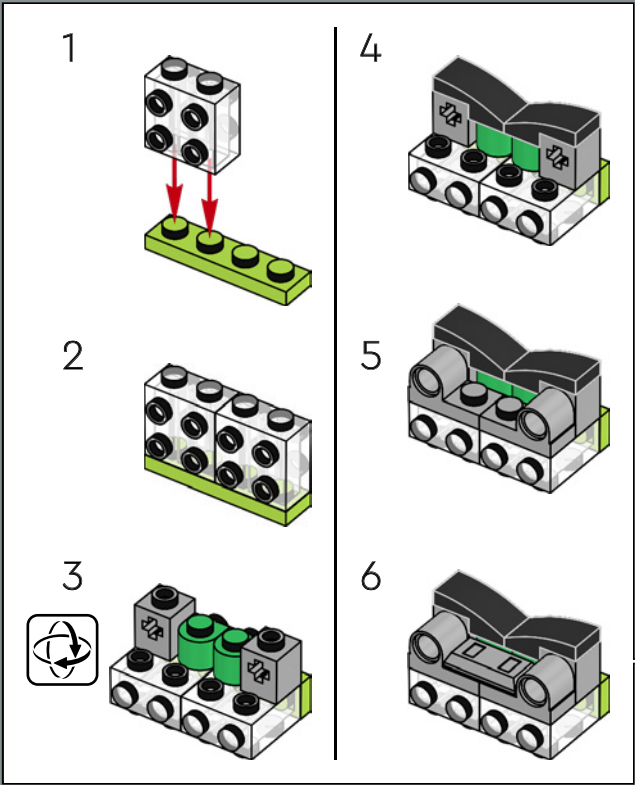


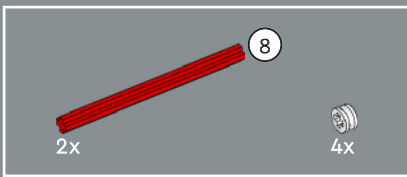
4x

133

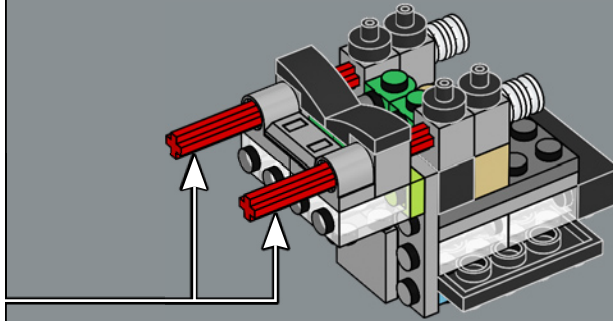
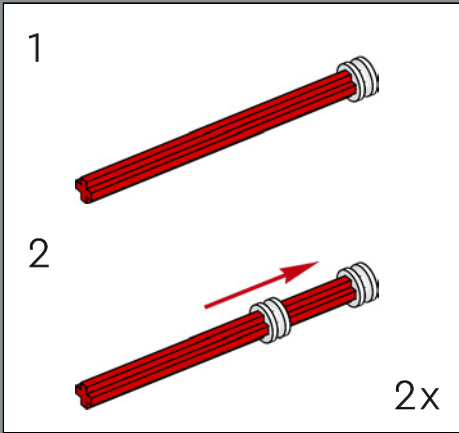


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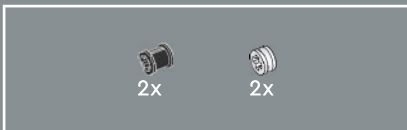
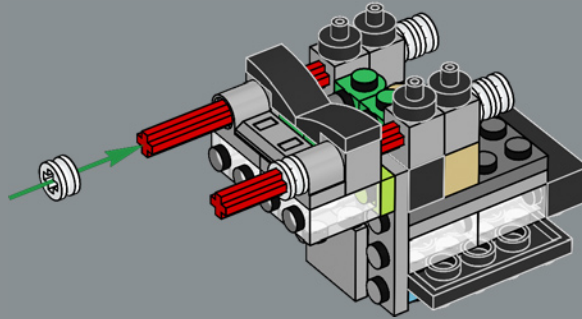




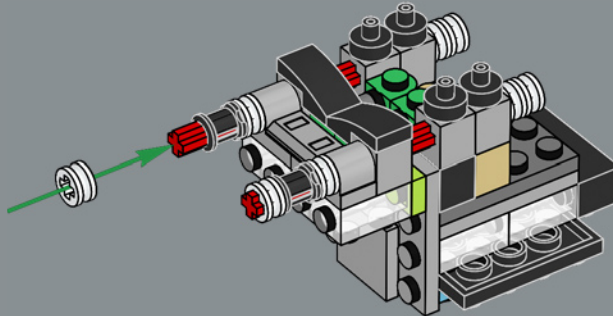
135



136



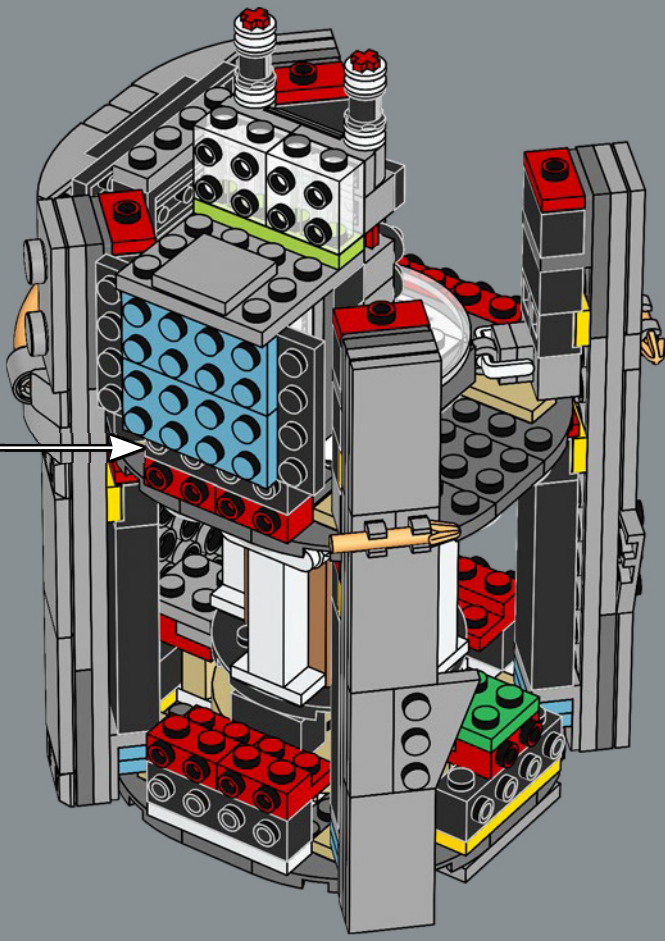
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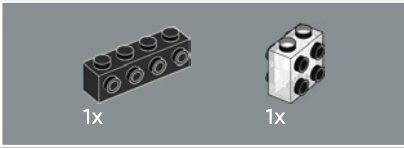
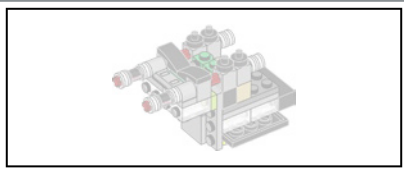


Orbiting at about 483 km/300 mi. above Earth,
Hubble's orbital speed averages 27,000 kph/17,000 mph.

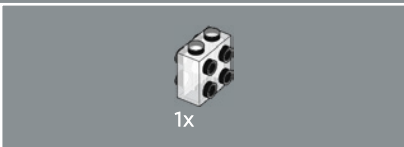
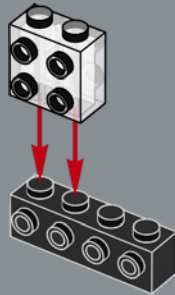


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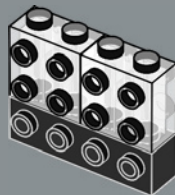




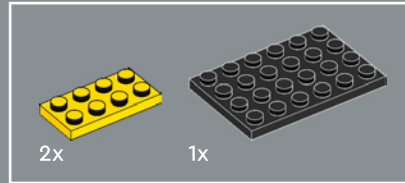
139



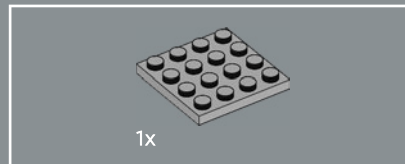
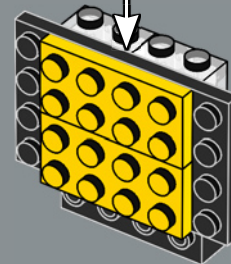
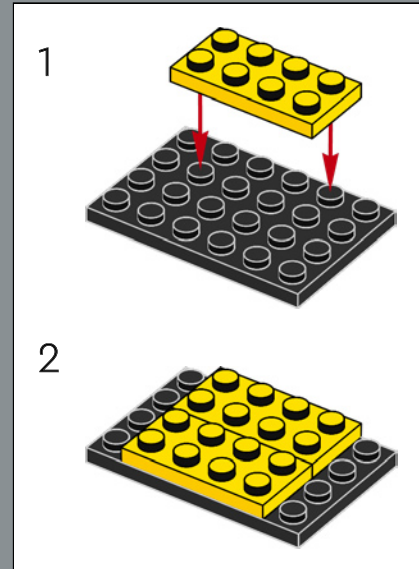
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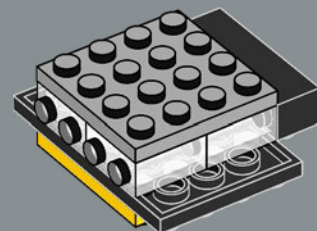
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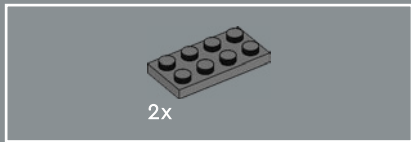


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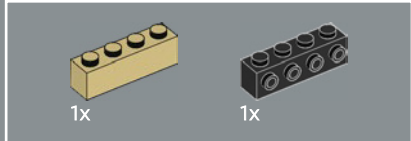
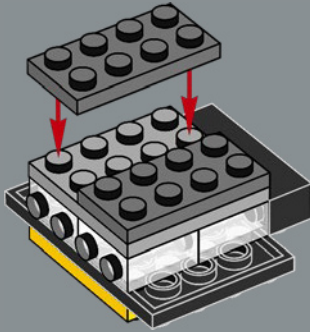


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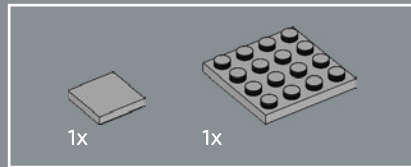
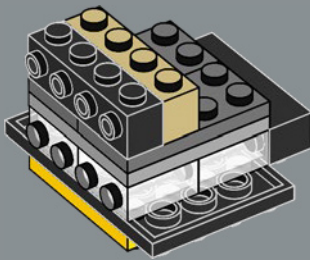




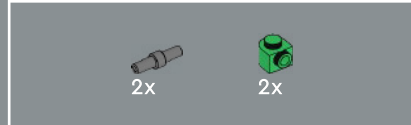
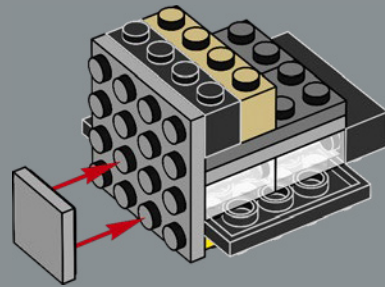
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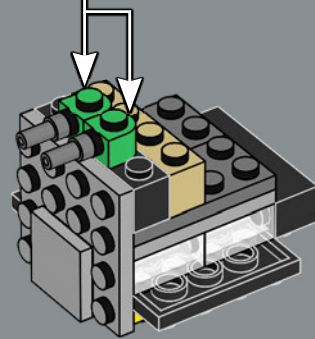
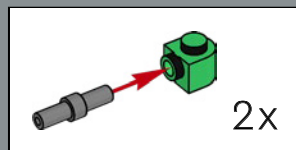
145



146



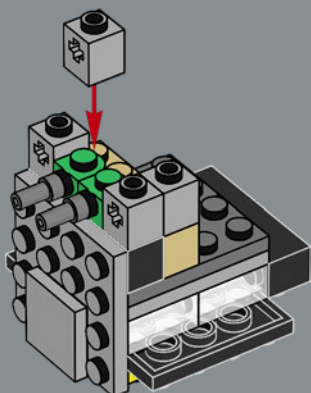
147





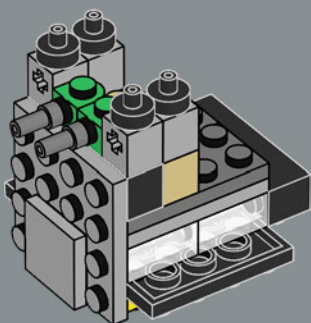
4x

148



4x

149



2x



1x



1x



2x



2x



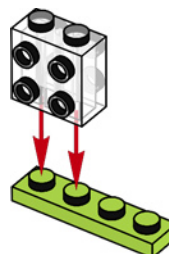
2x



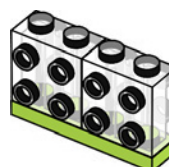
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150

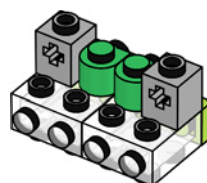
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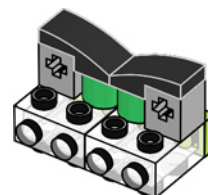
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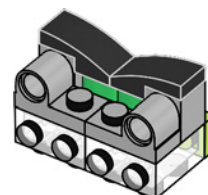
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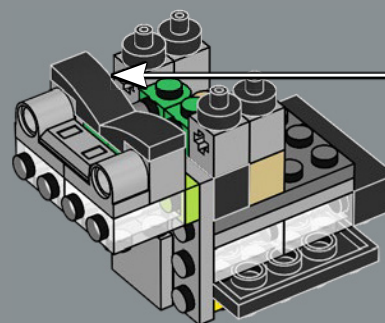
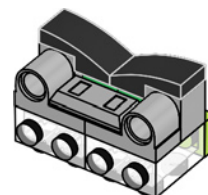
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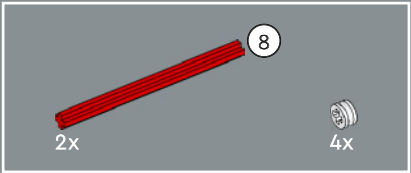


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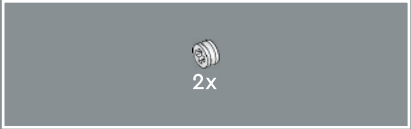
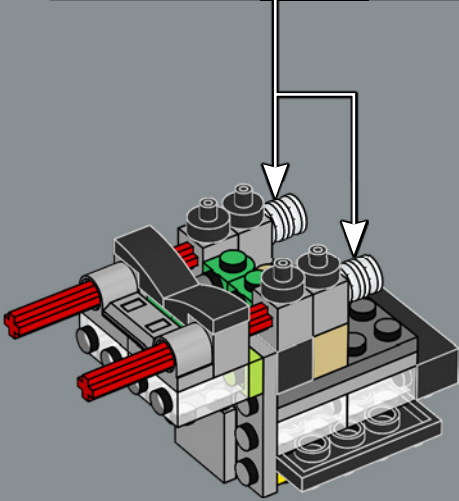
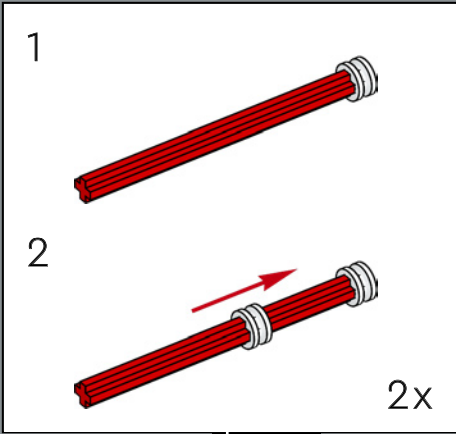


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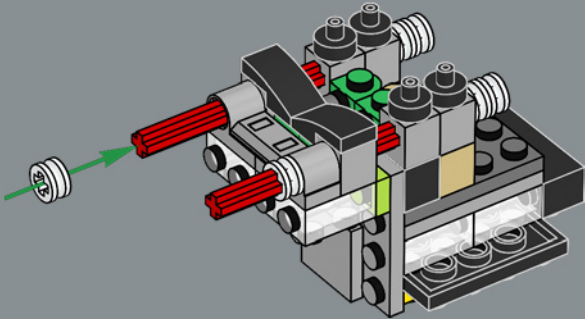




151



152



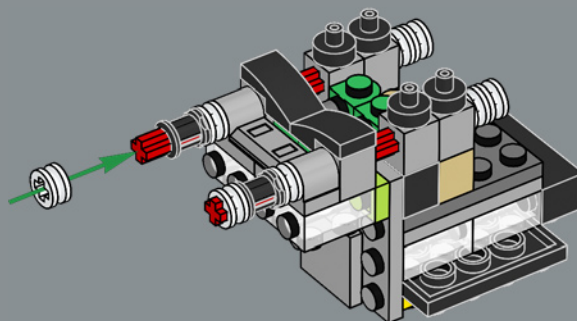


2x

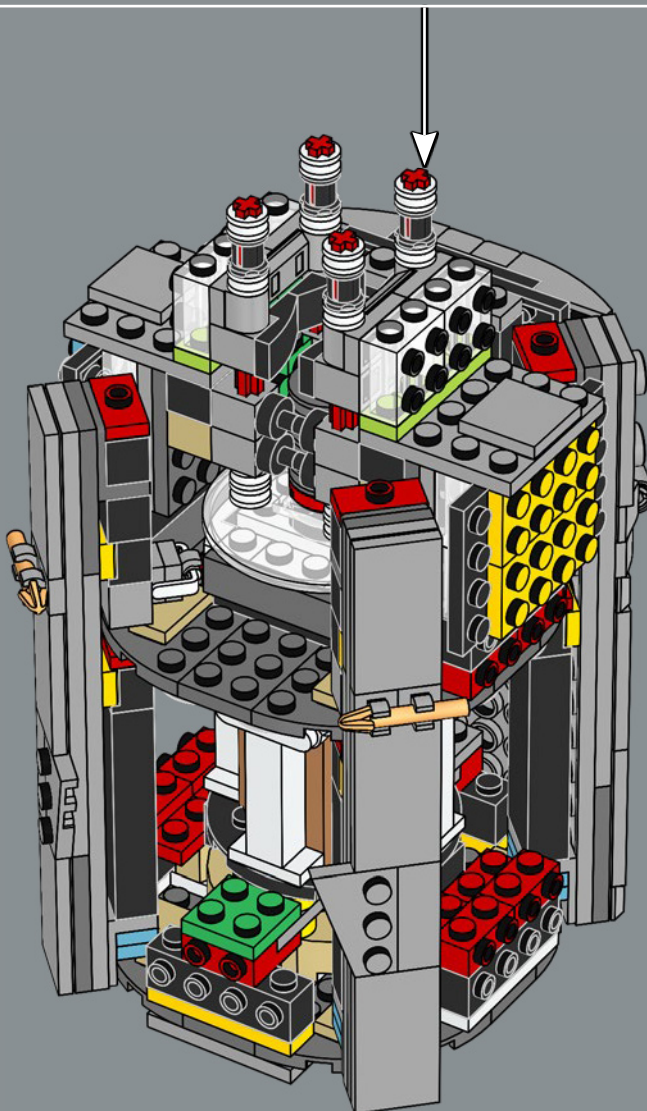


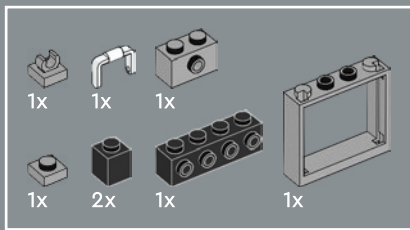
2x

153

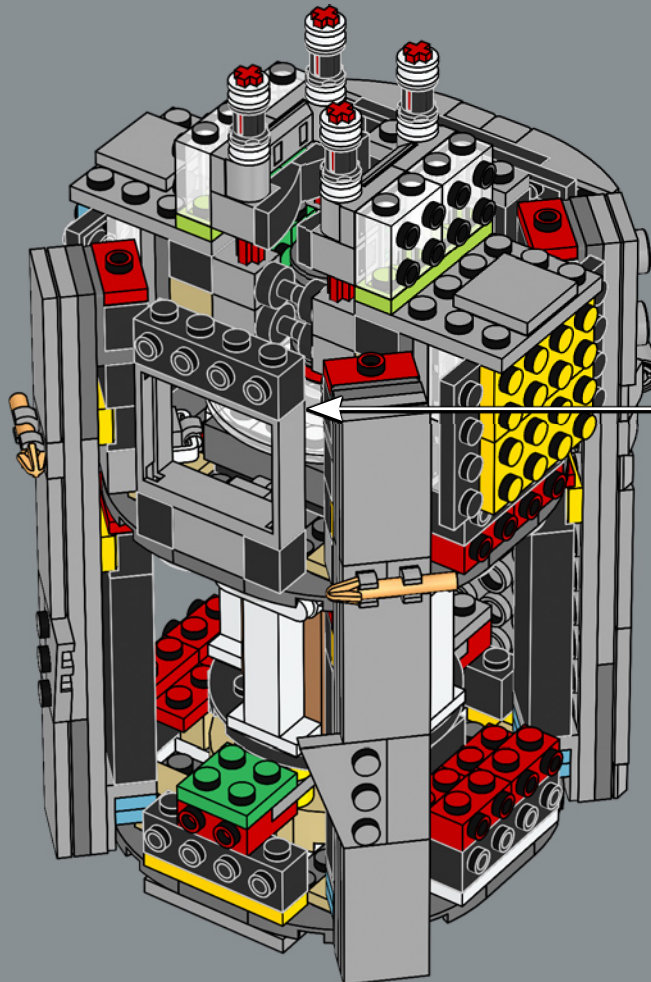
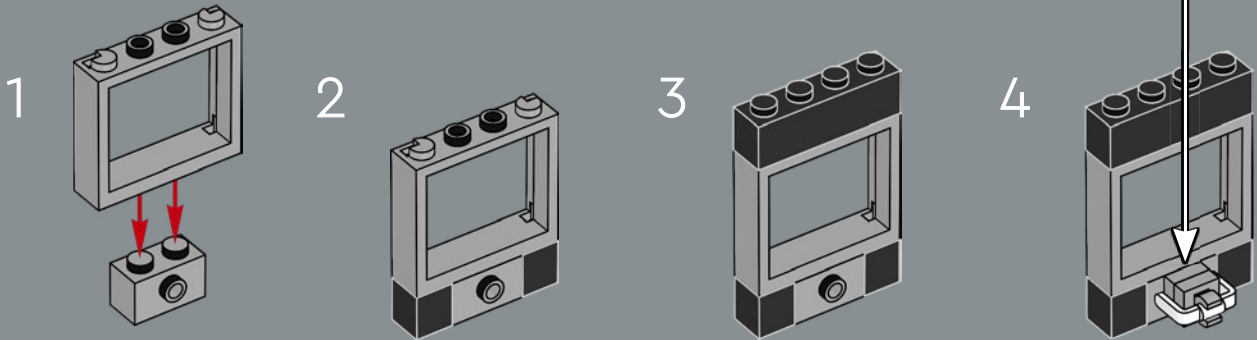
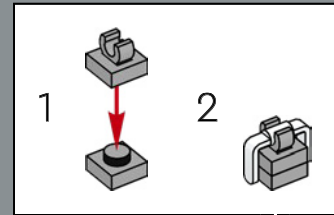


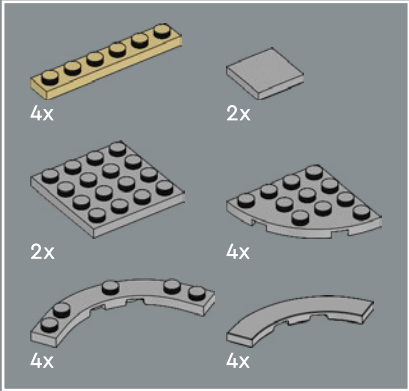
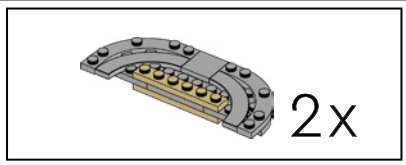
154





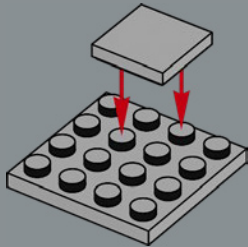
155



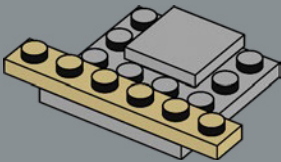


156

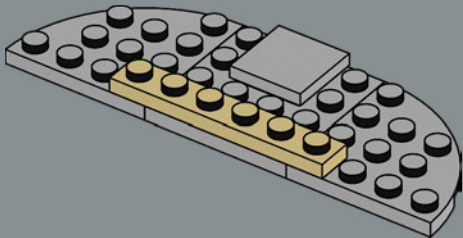
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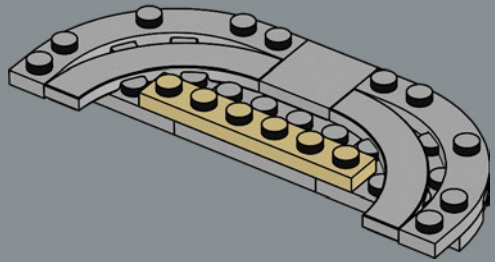
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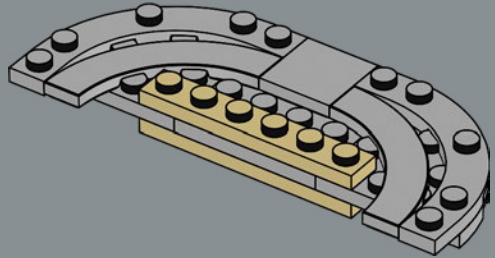
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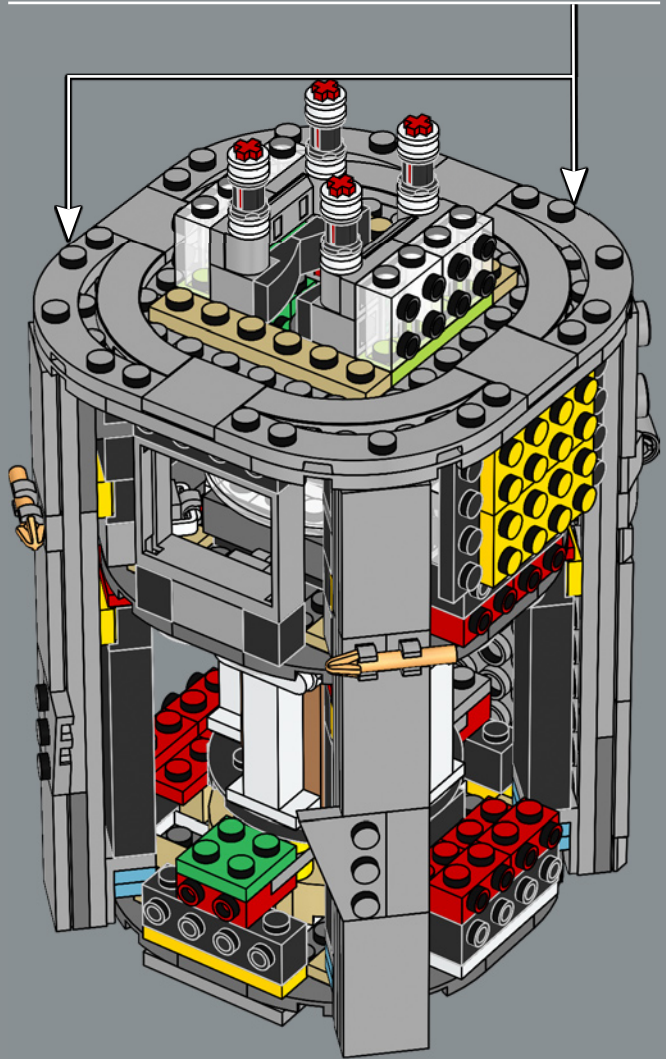
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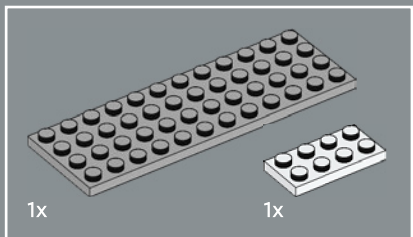
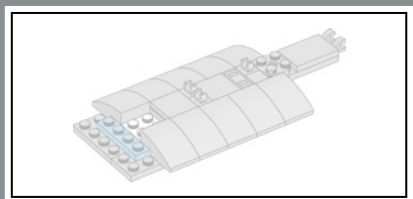


5

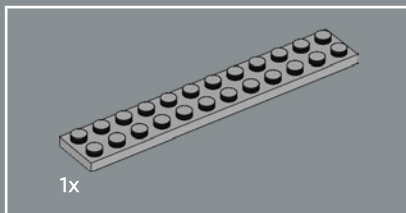
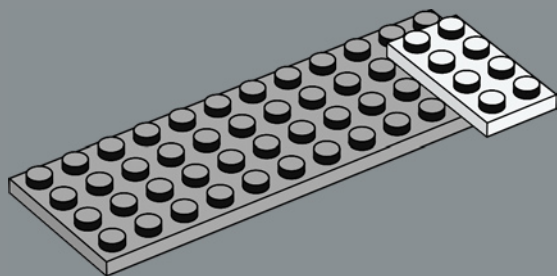


2x

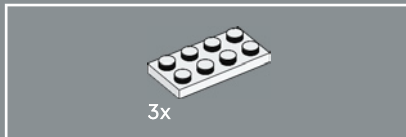
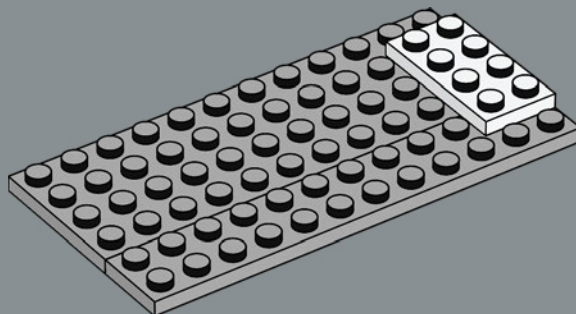




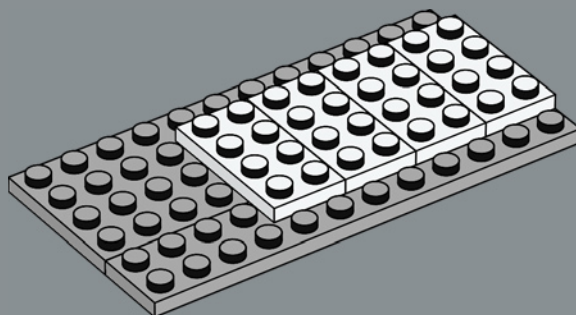
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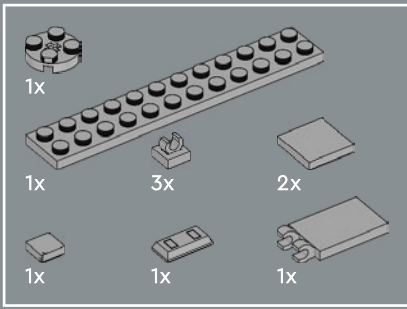


158

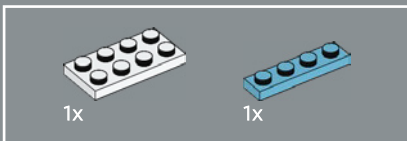
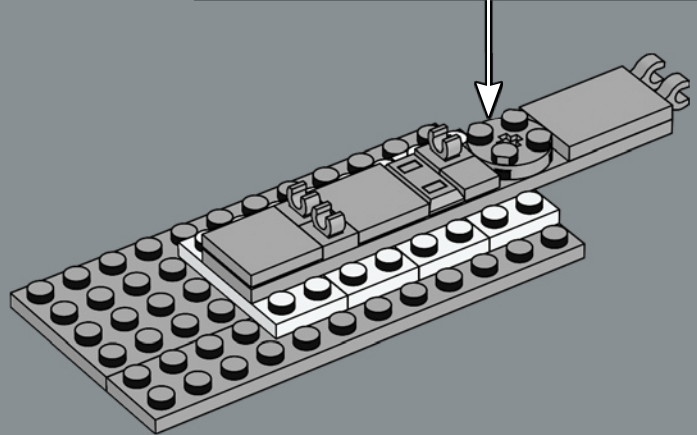
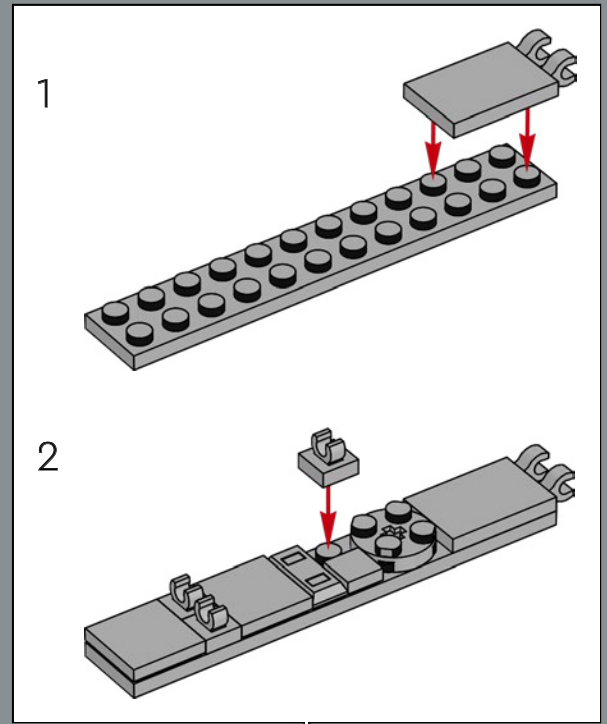


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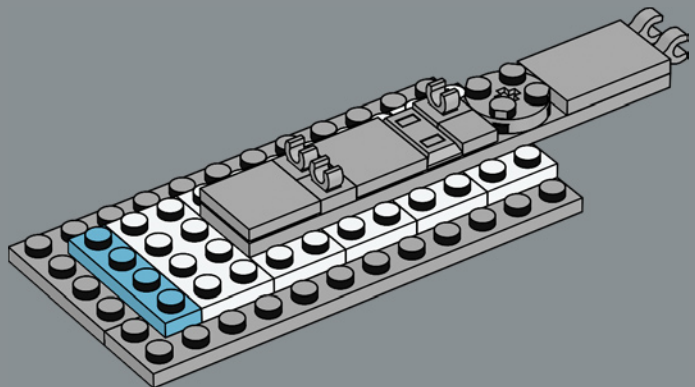


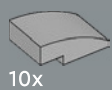


160



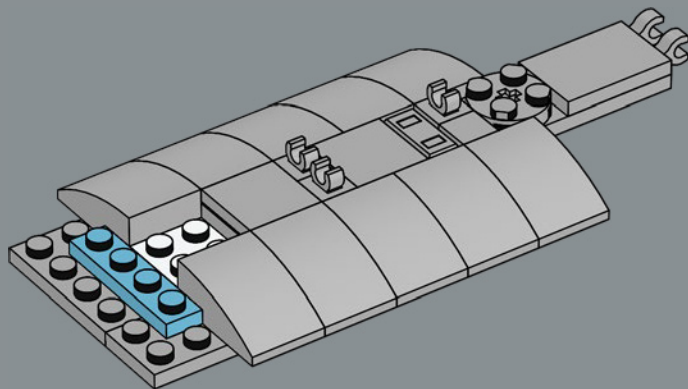
161



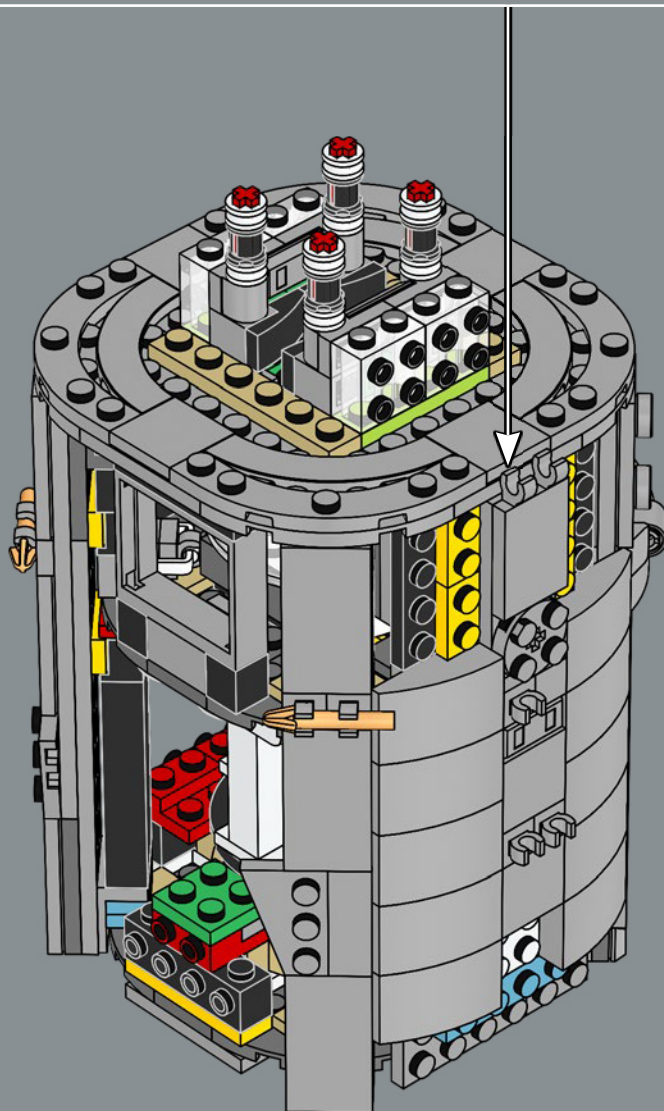


10x

162



163



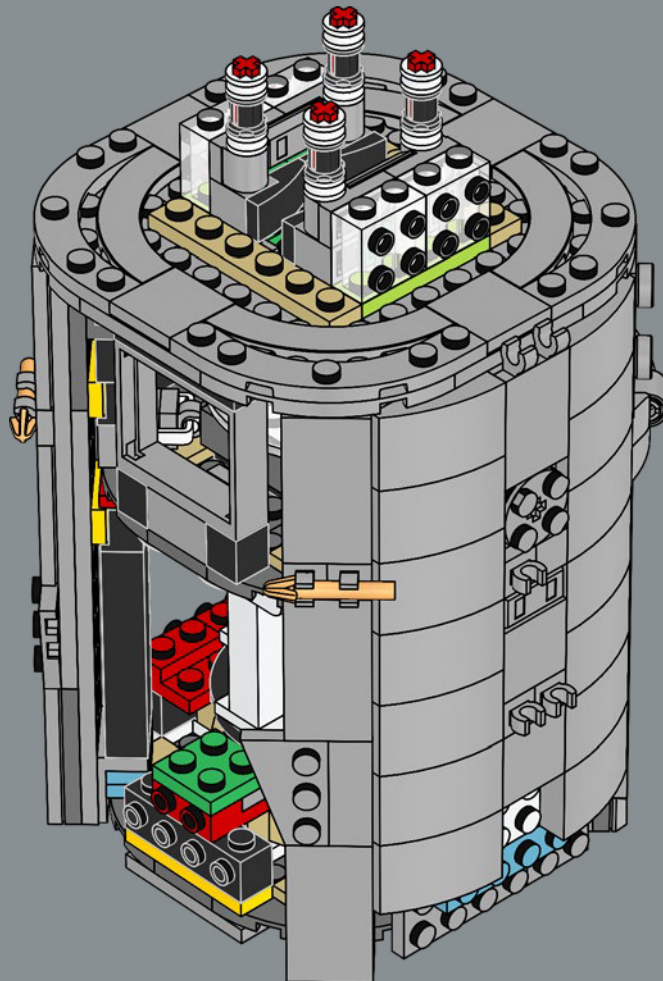


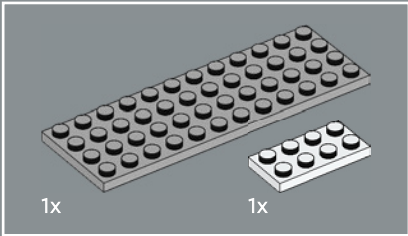
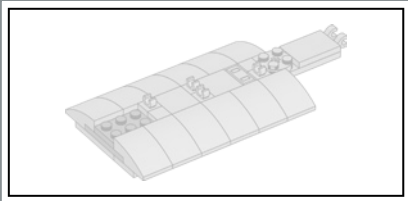
4x

With more than 184,000 Earth orbits under its belt, Hubble has travelled more than 8 billion km/5 billion mi. to date.

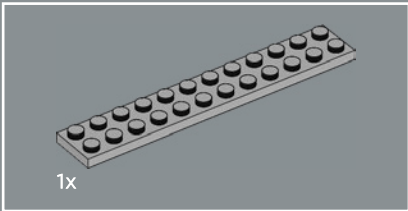
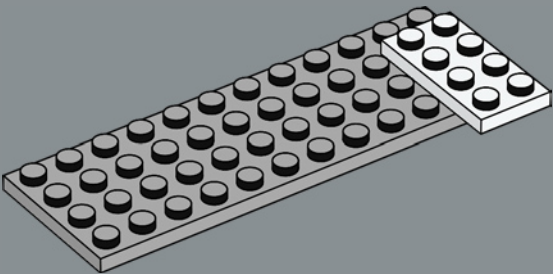


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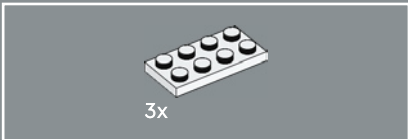
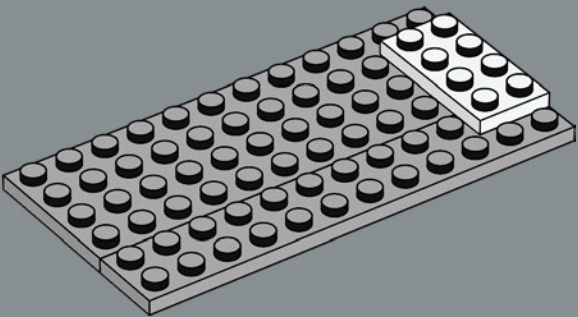




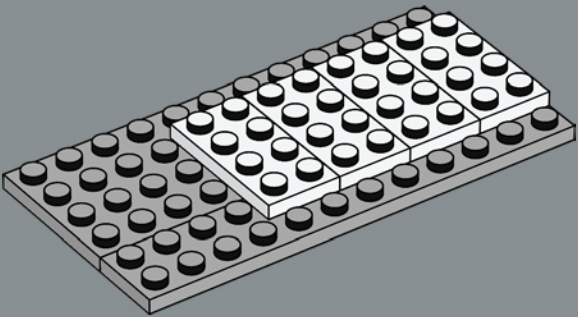
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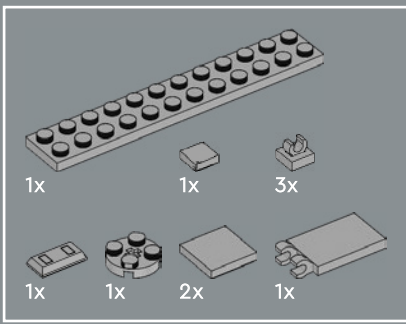


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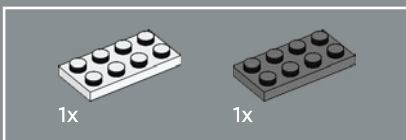
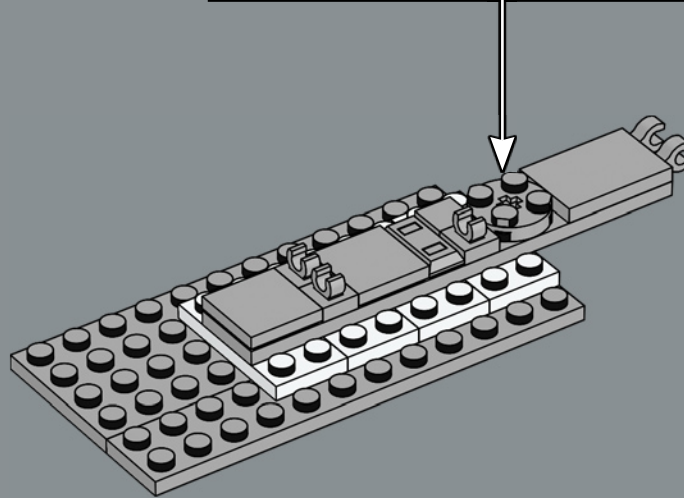
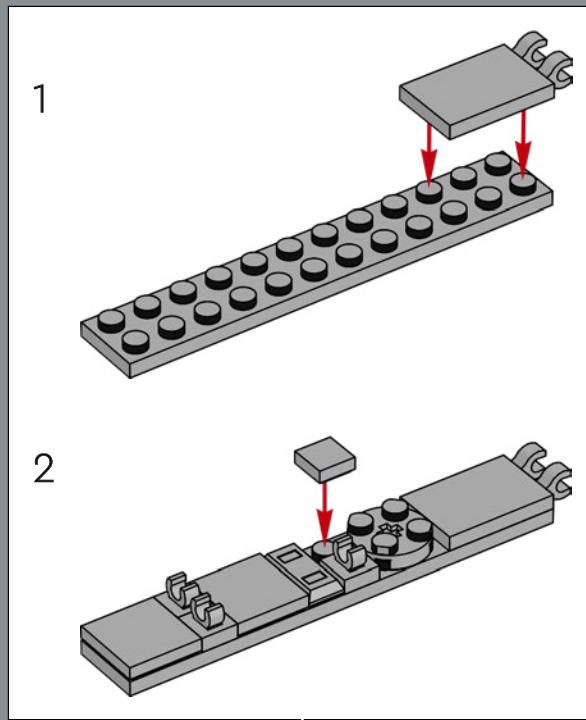


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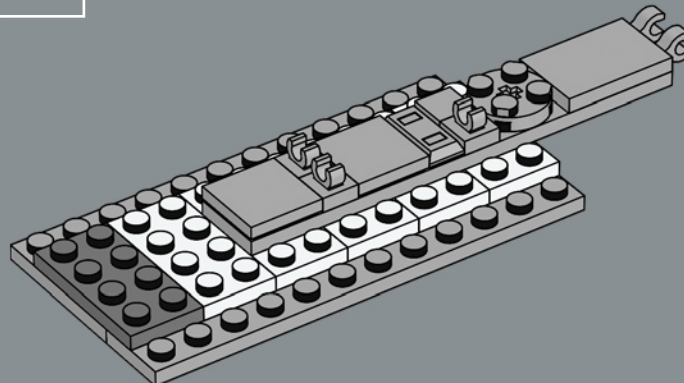


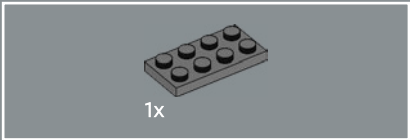


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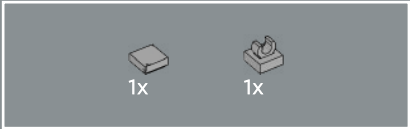
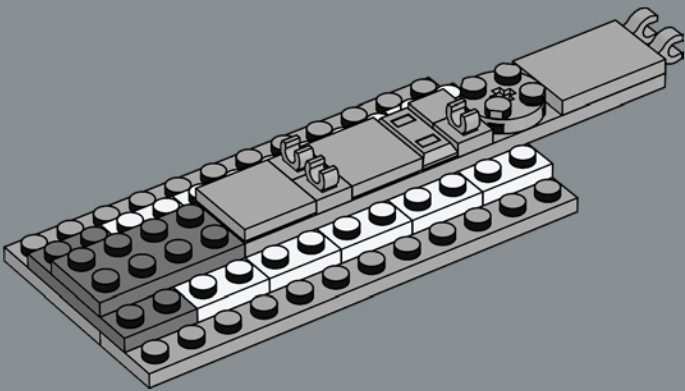


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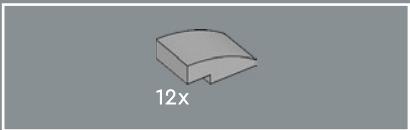
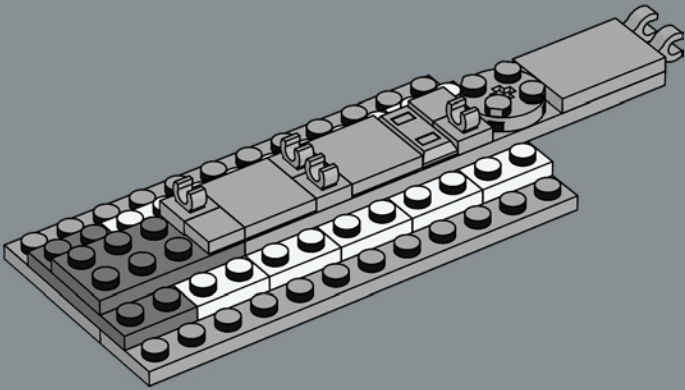




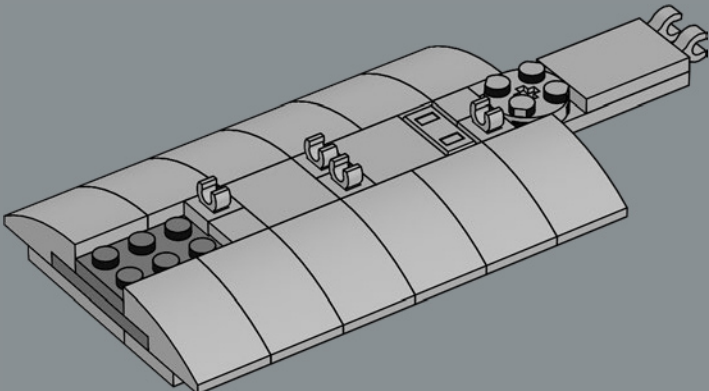
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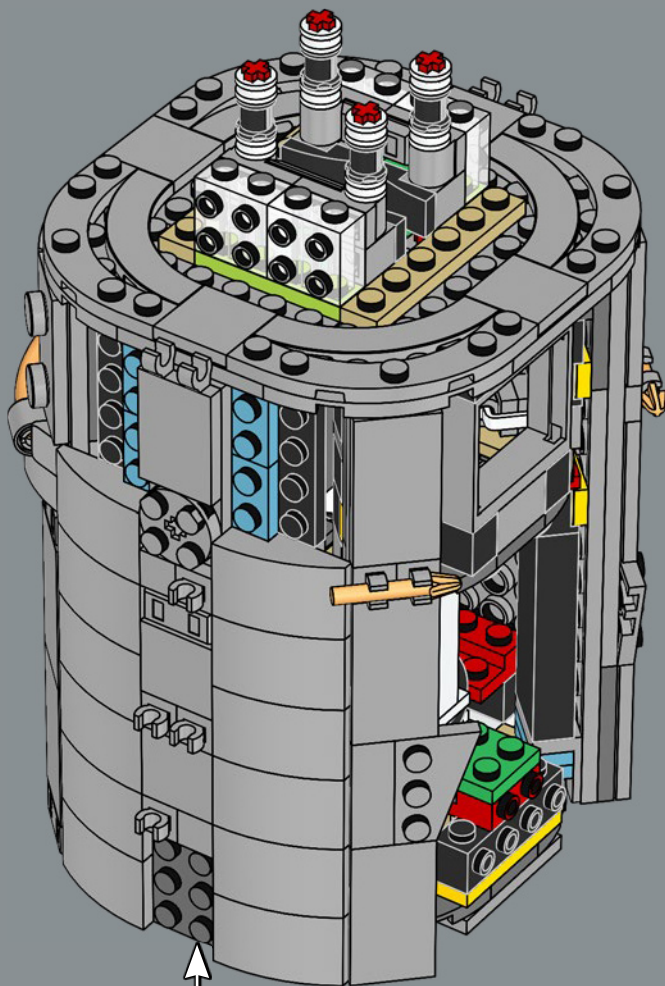
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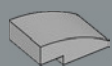


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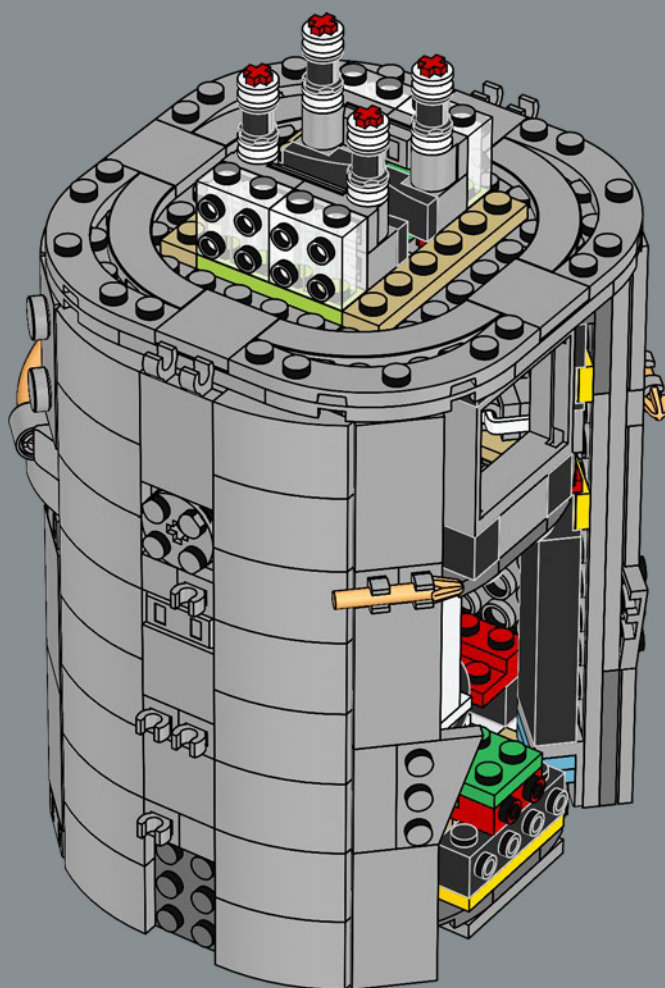
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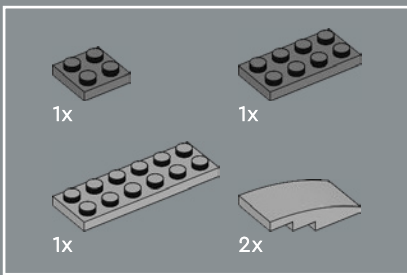




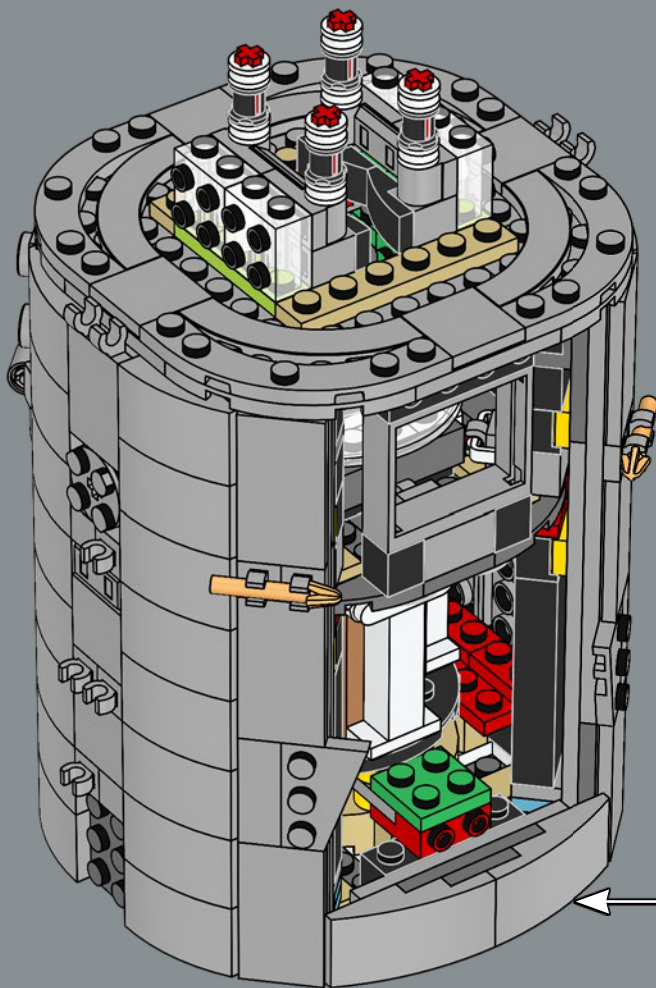
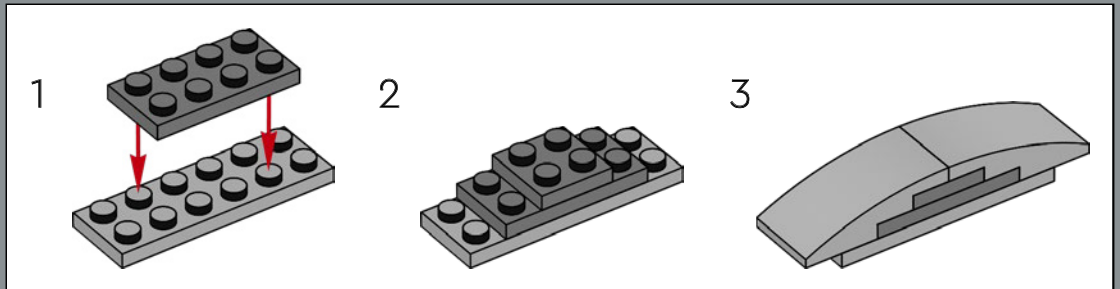
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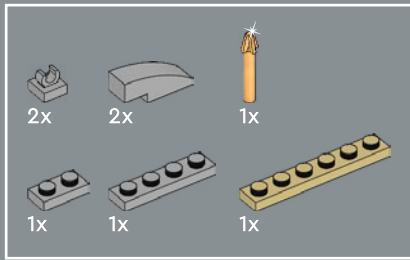
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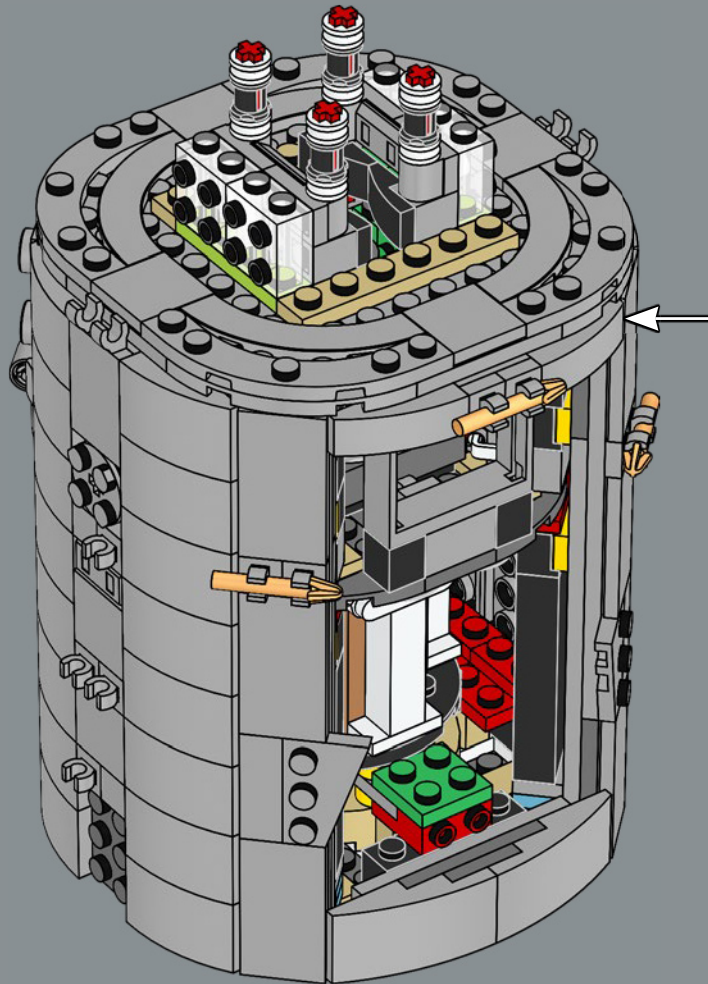
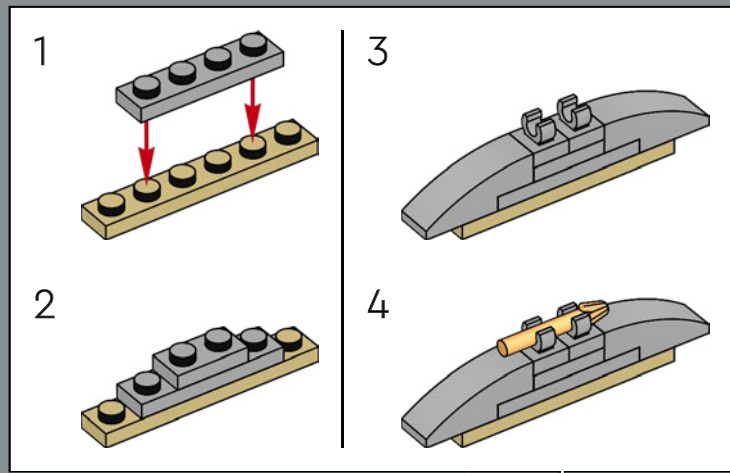


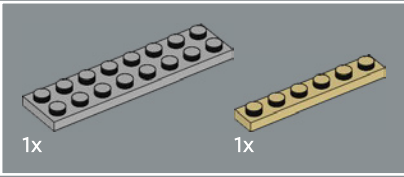
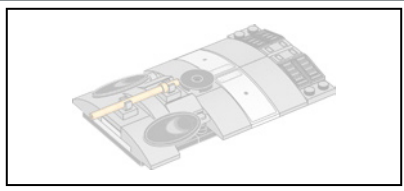
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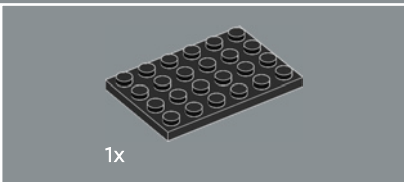
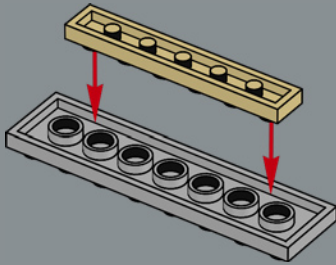


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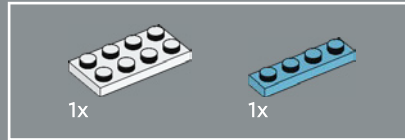
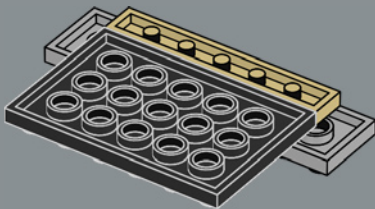




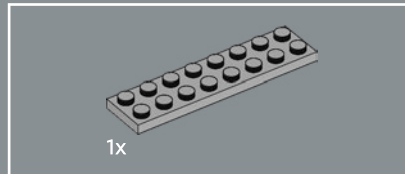
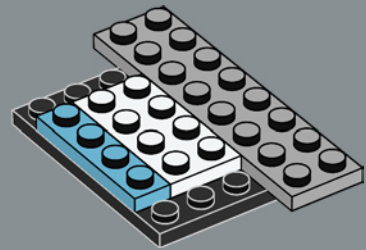
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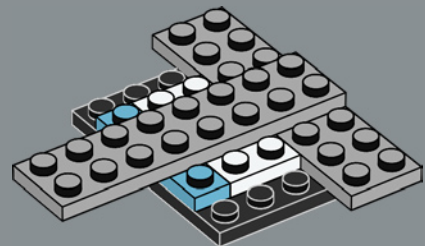
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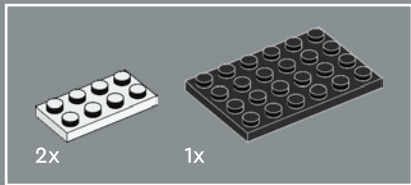


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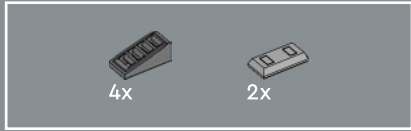
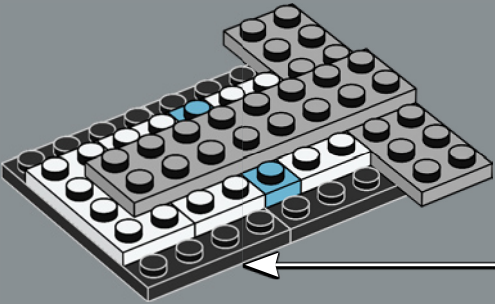
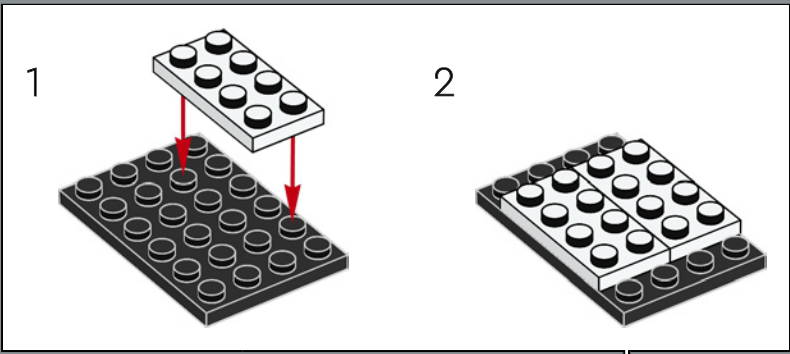


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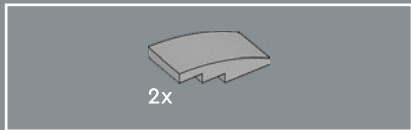
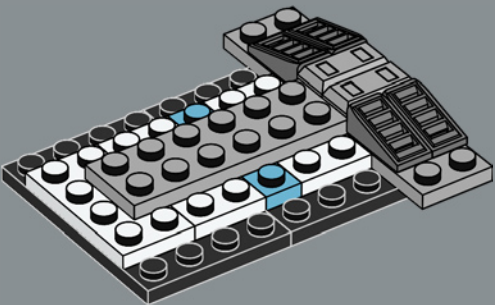




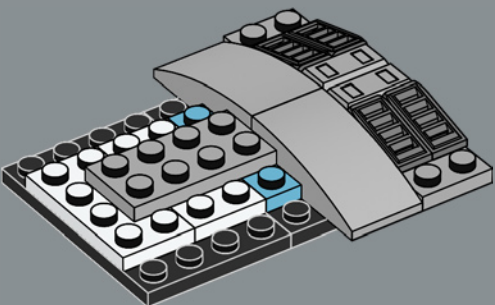
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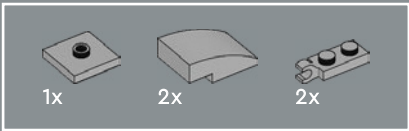
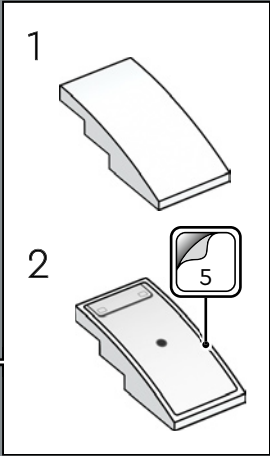
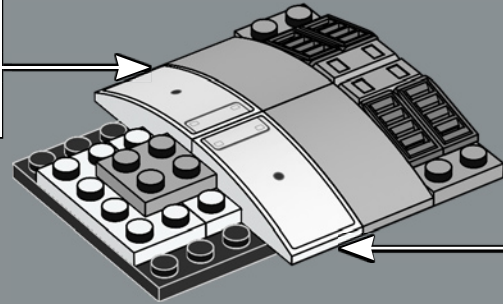
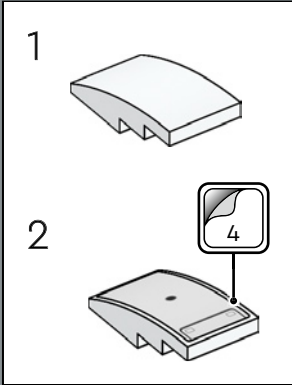


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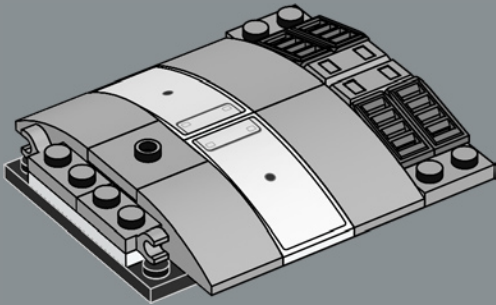


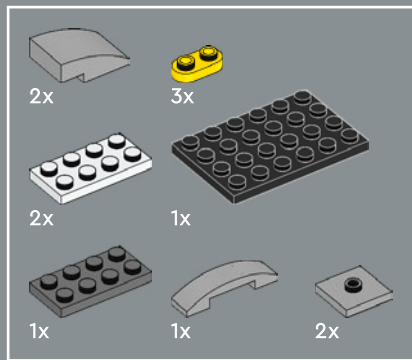


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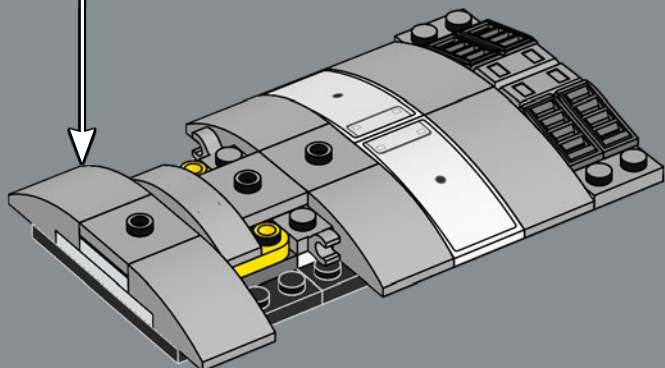
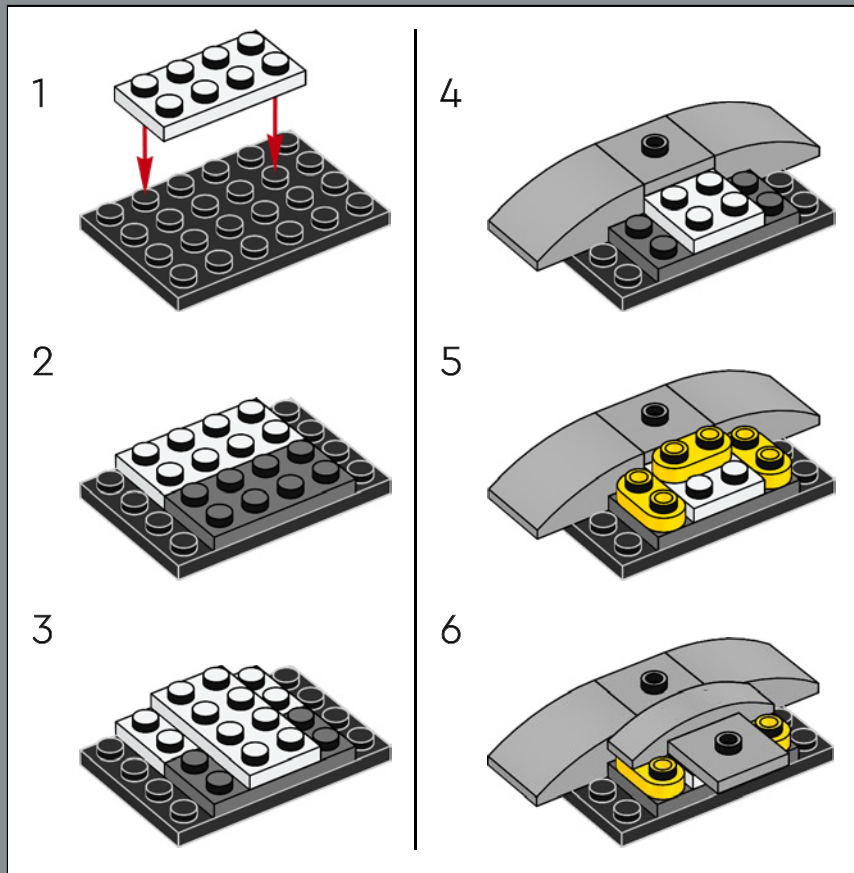


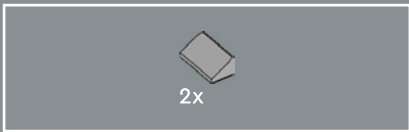
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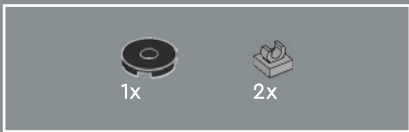
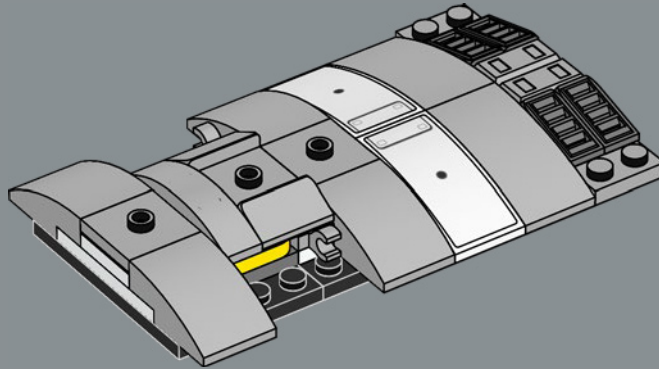


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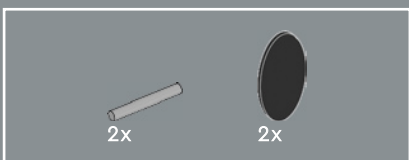
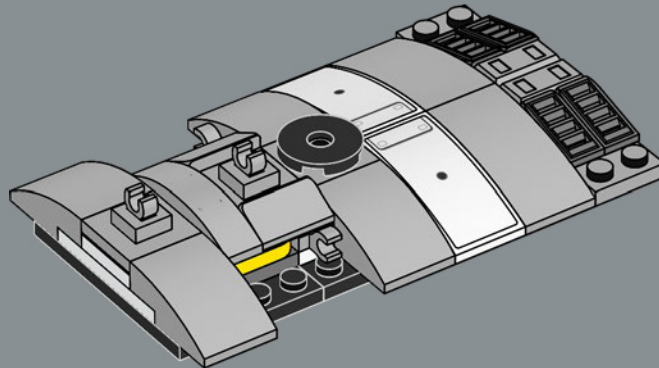




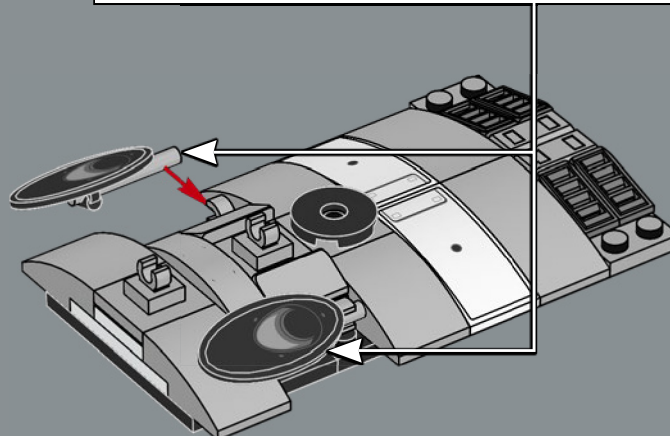
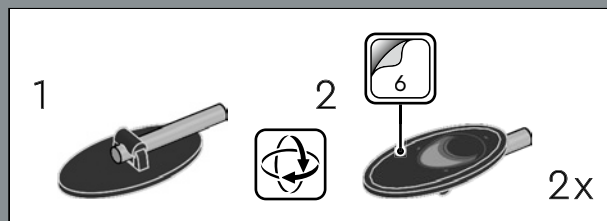
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188

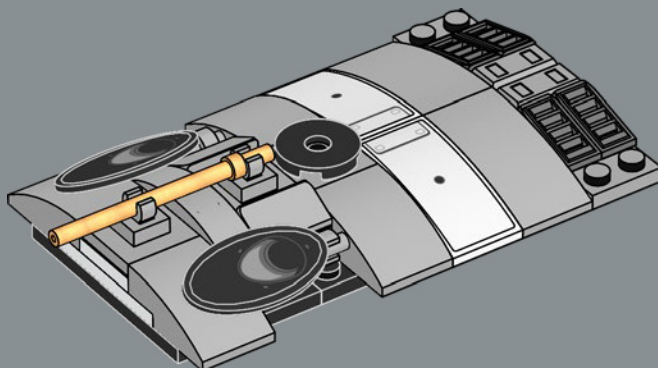


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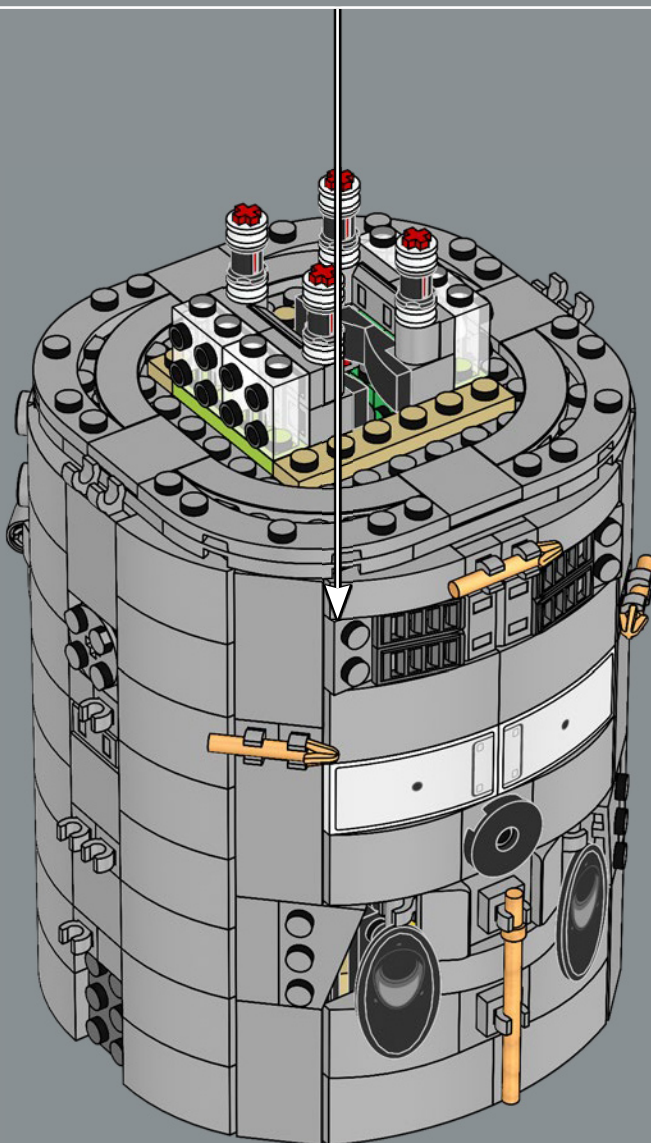


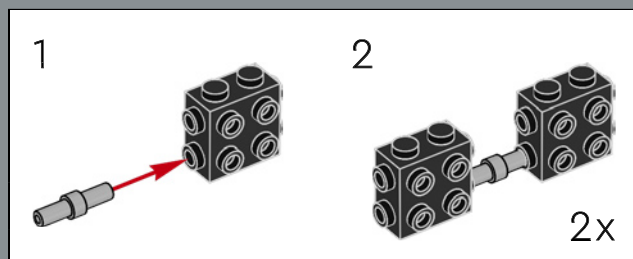
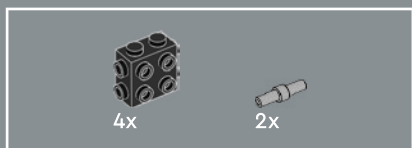


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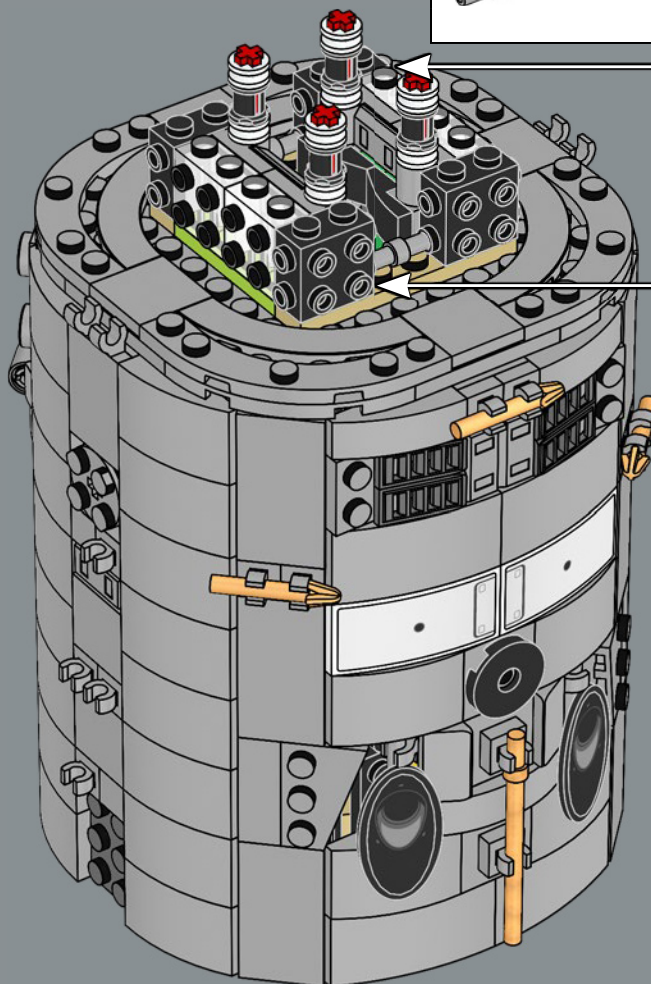


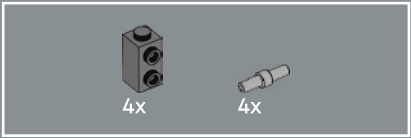
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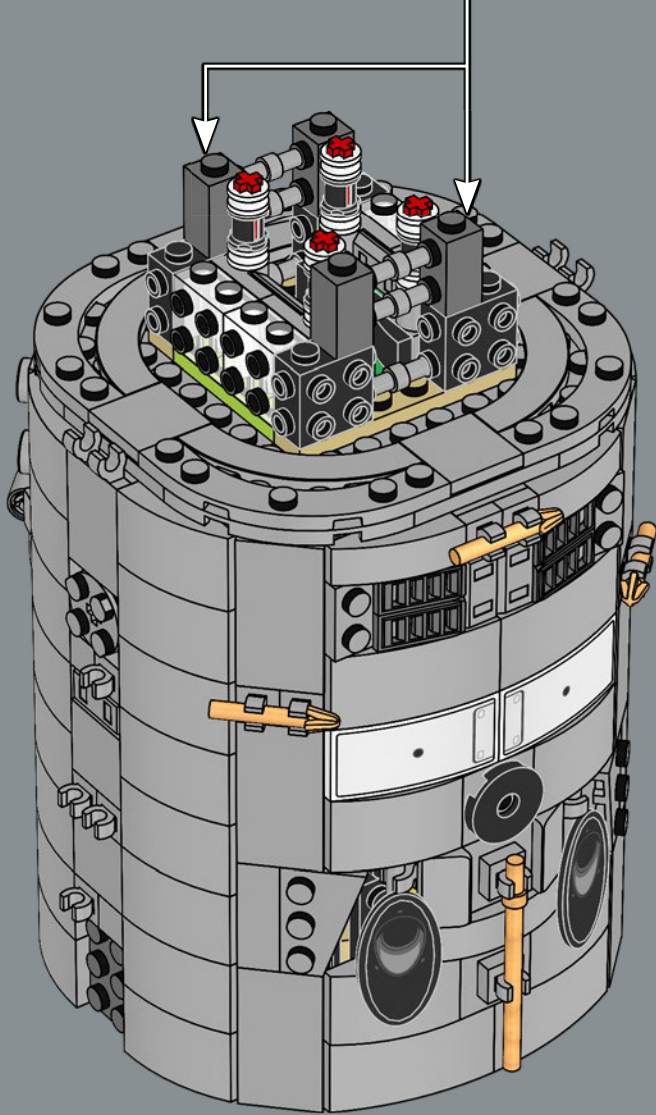
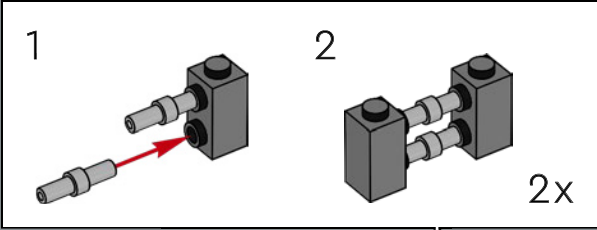


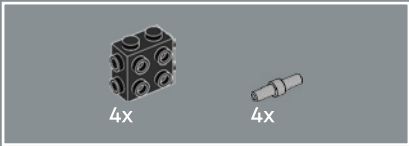
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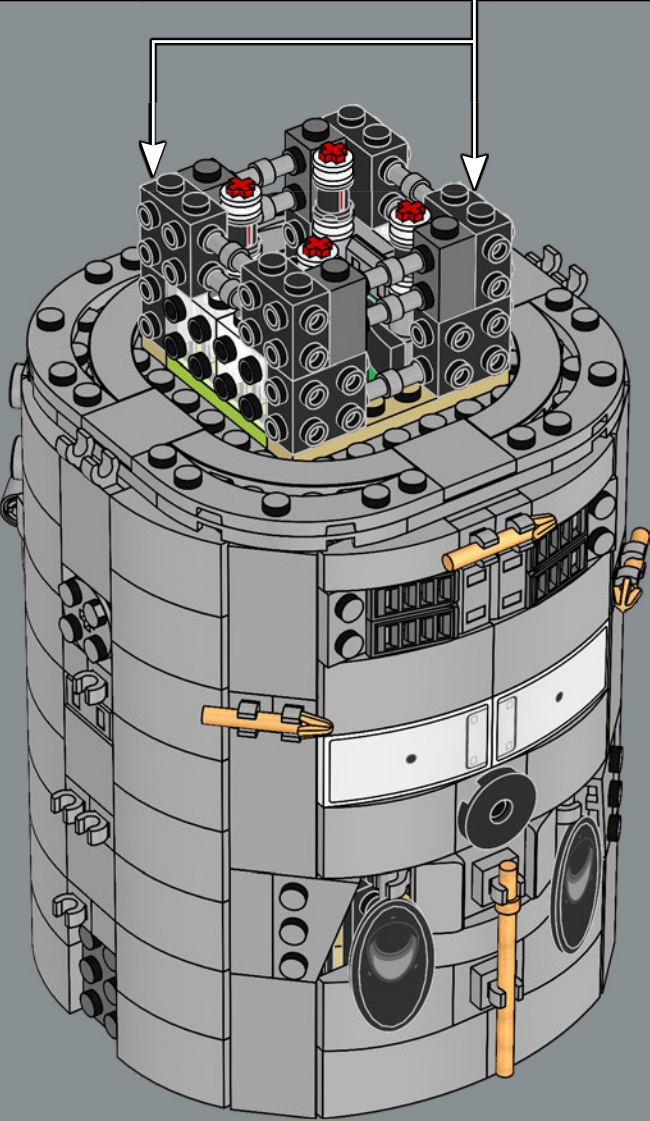
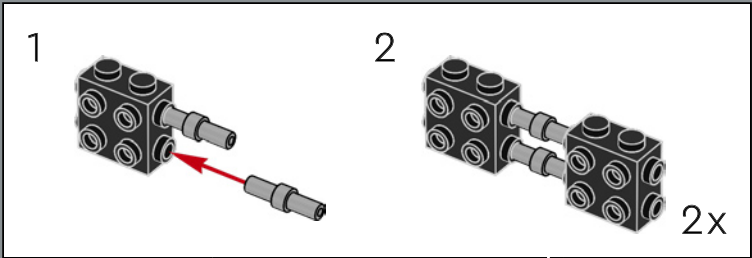


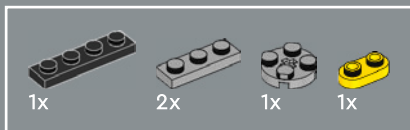
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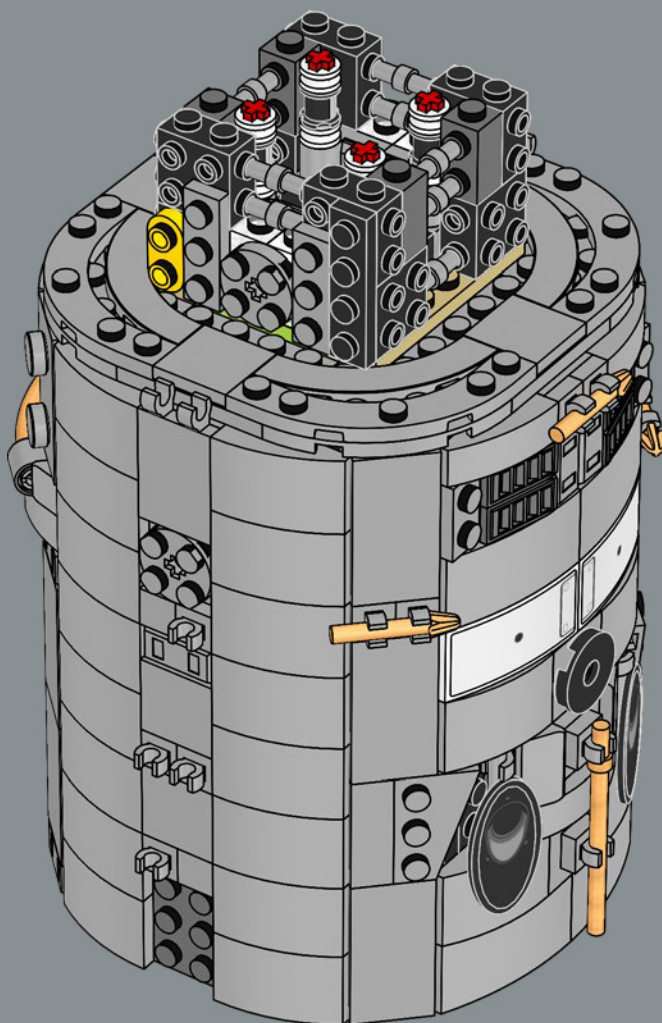


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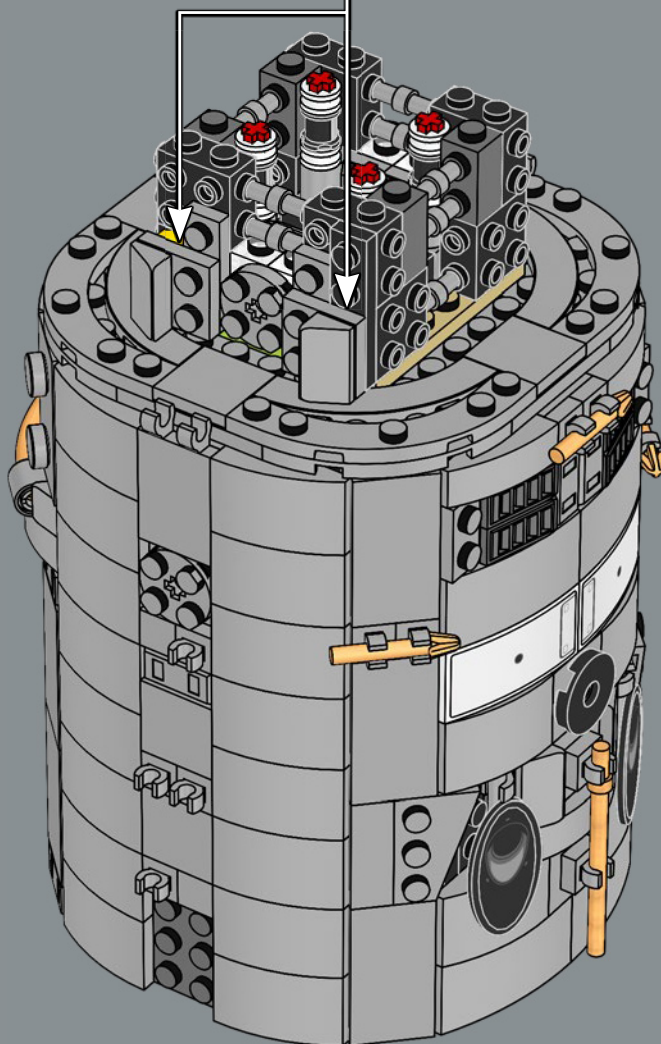
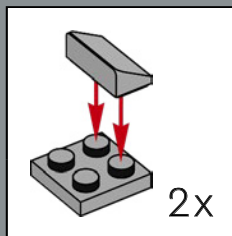


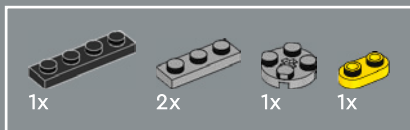
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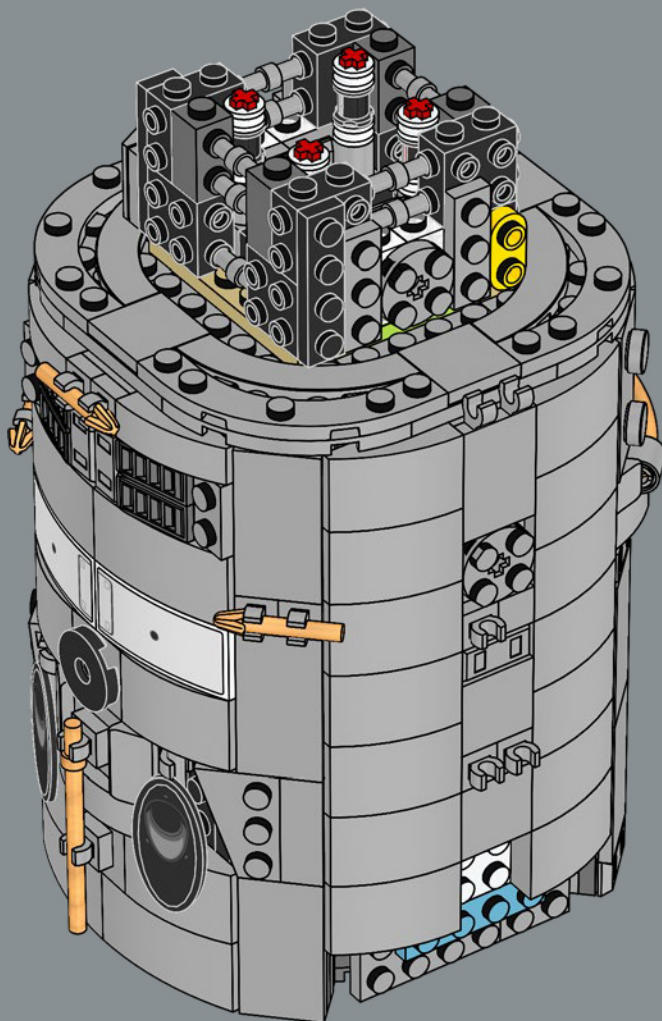
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196





197



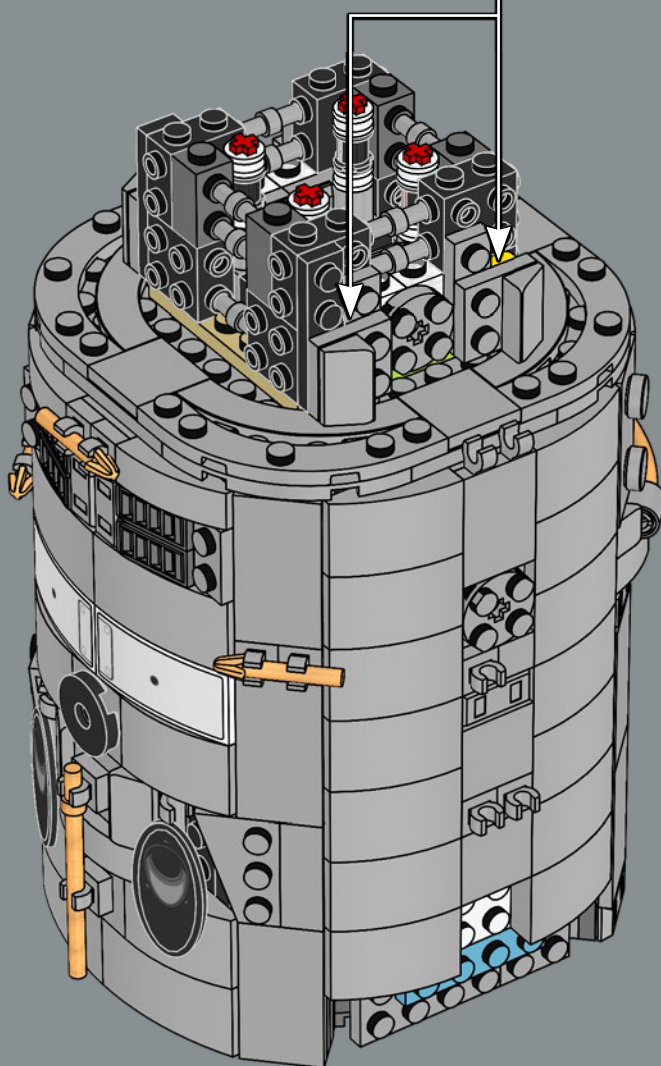
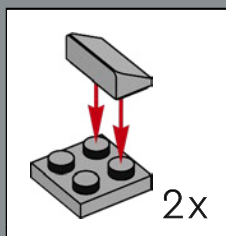


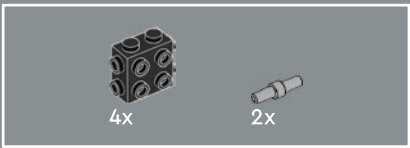
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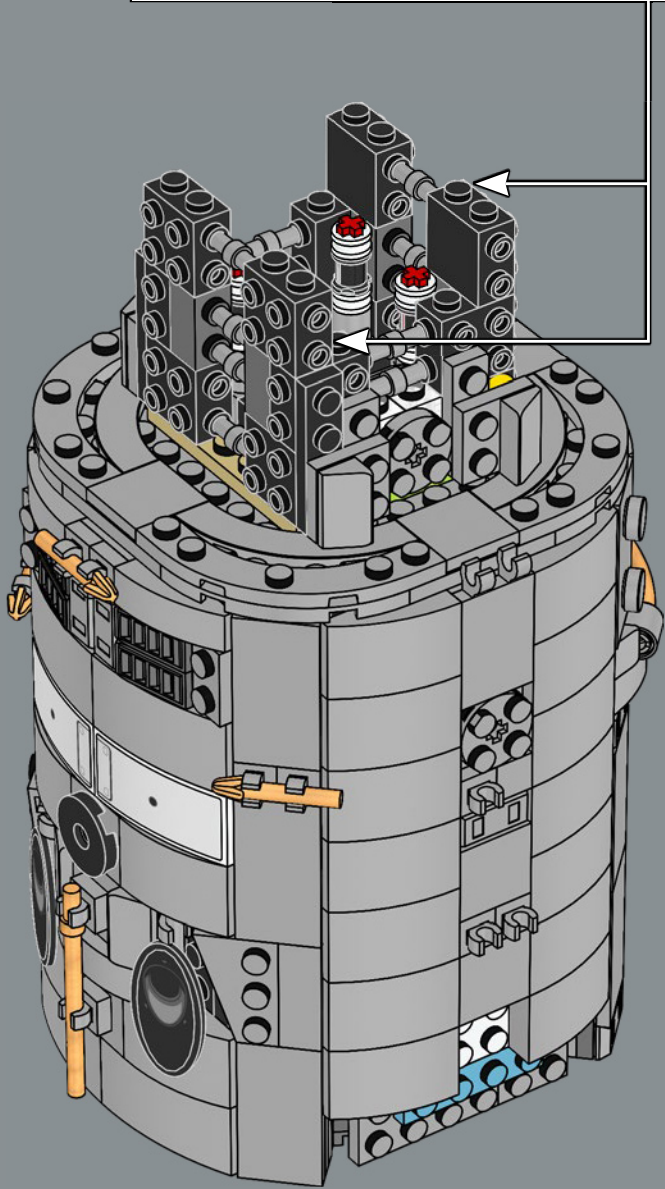
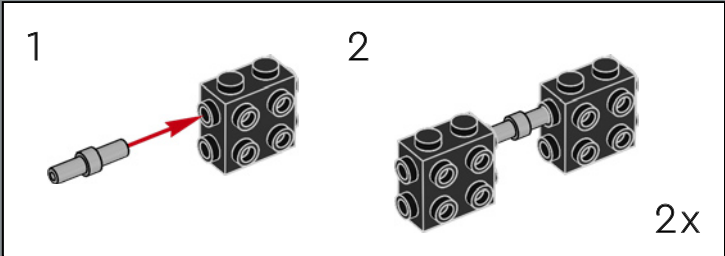
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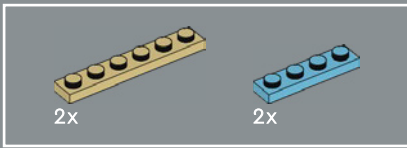
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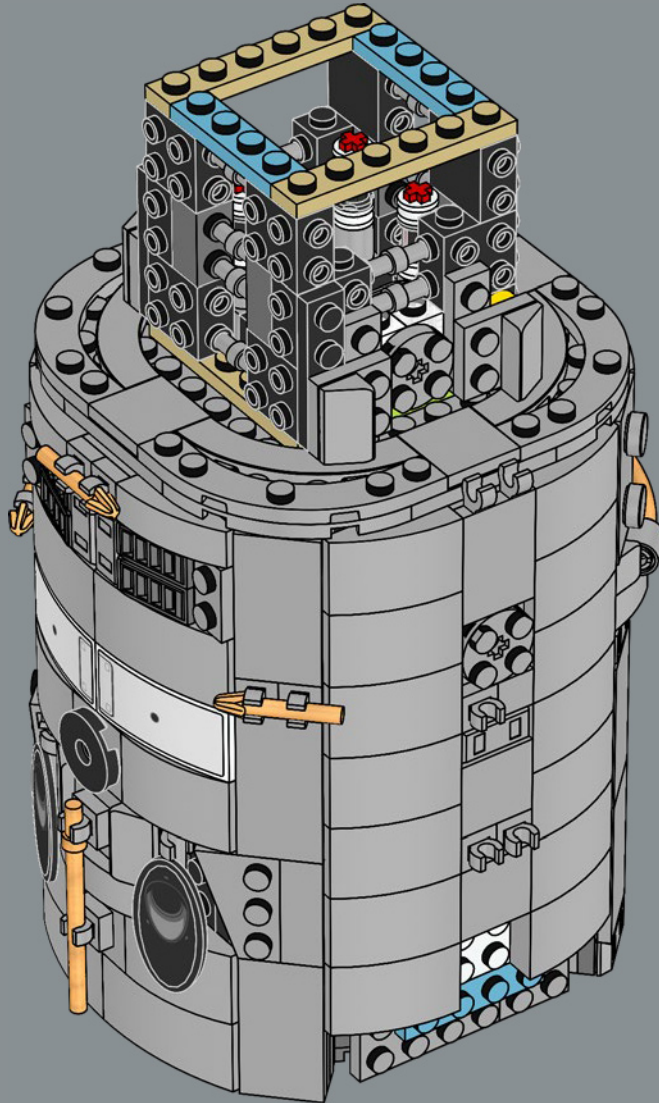


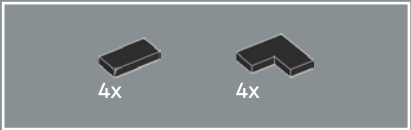
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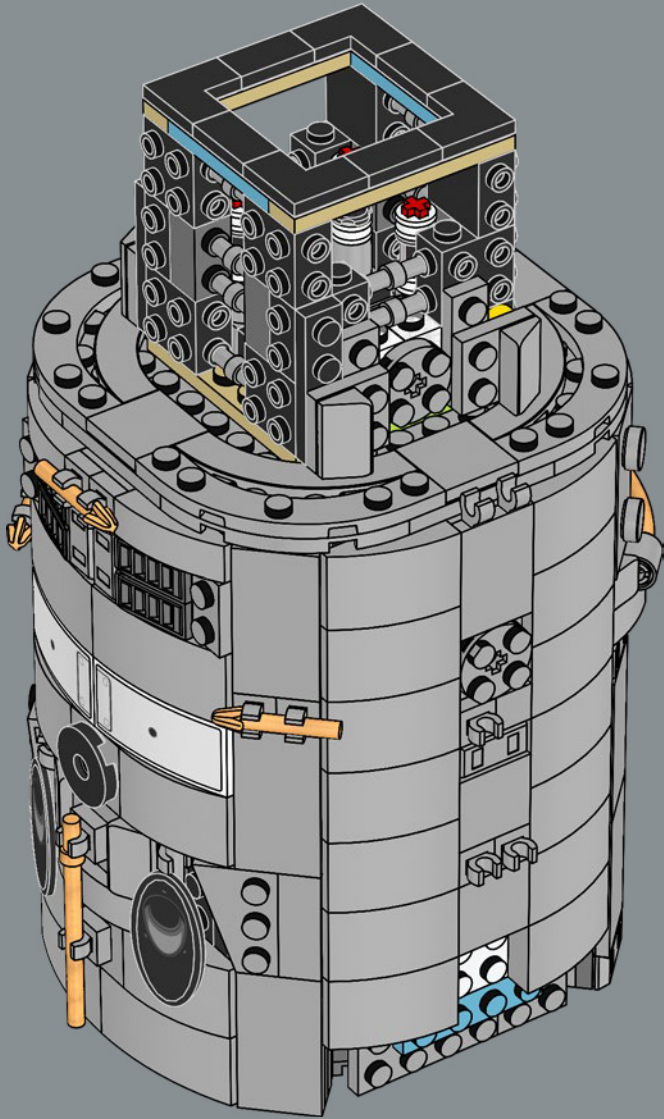


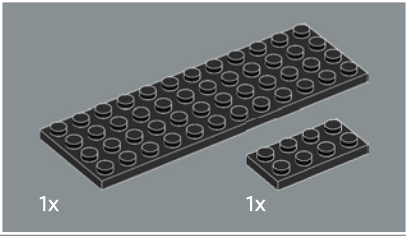
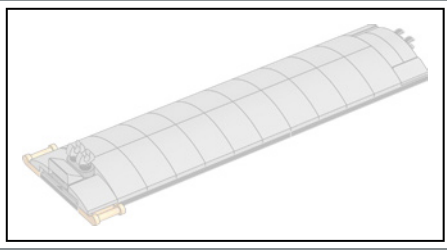
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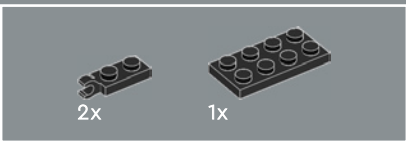
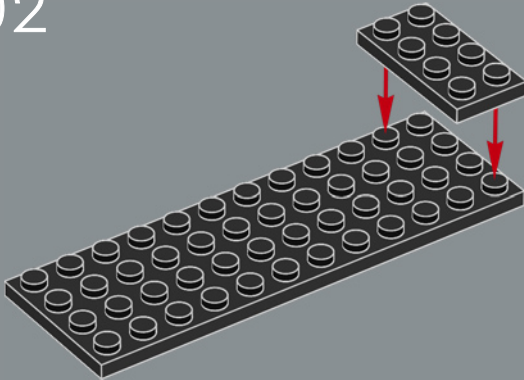


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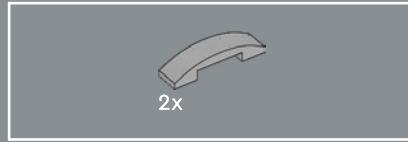
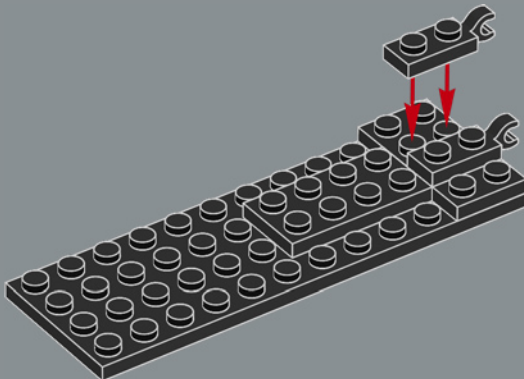




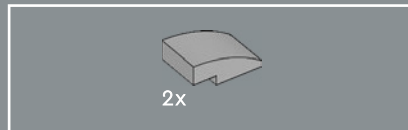
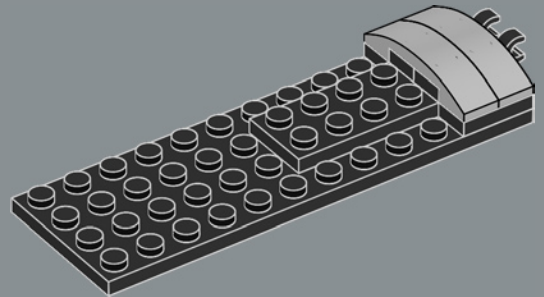
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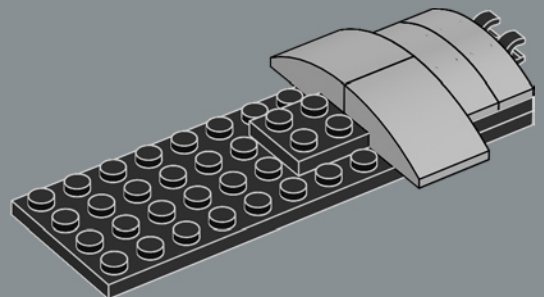
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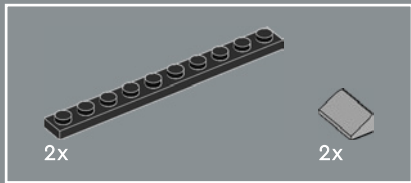


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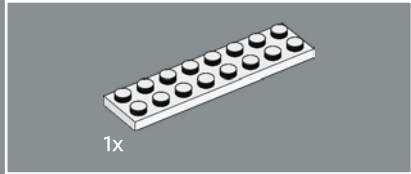
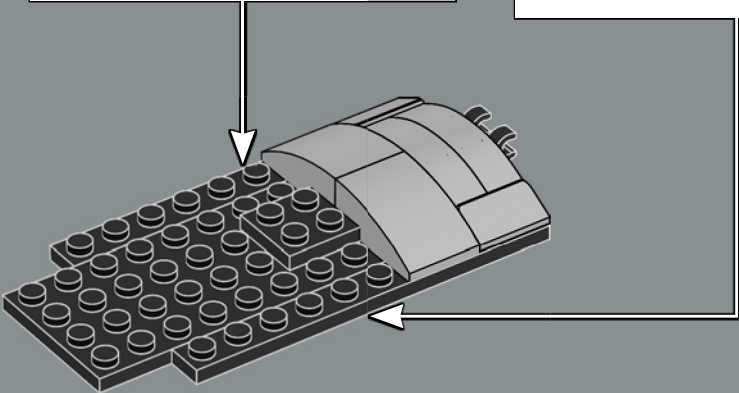
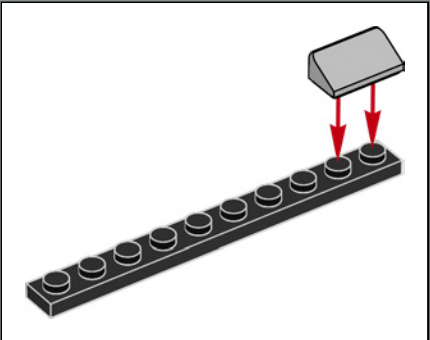
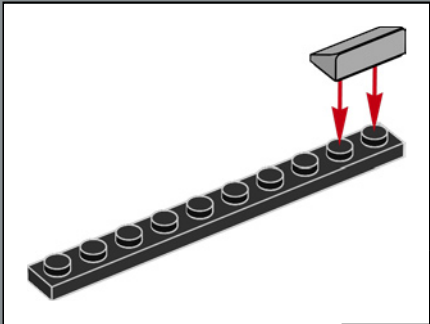


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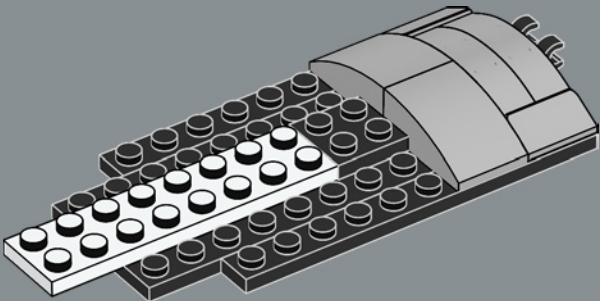


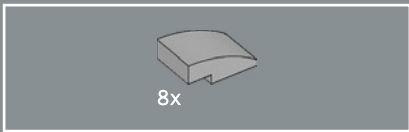


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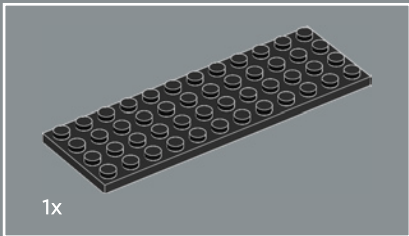
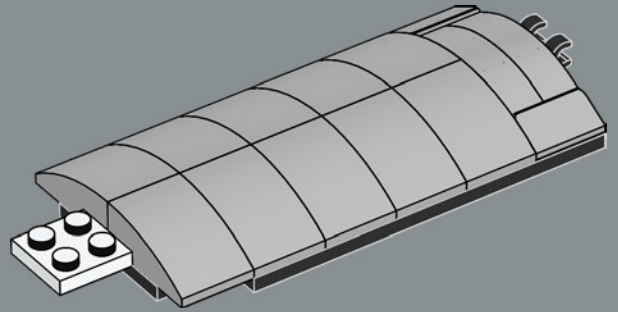


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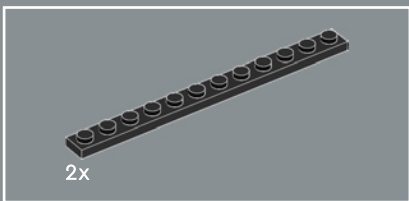
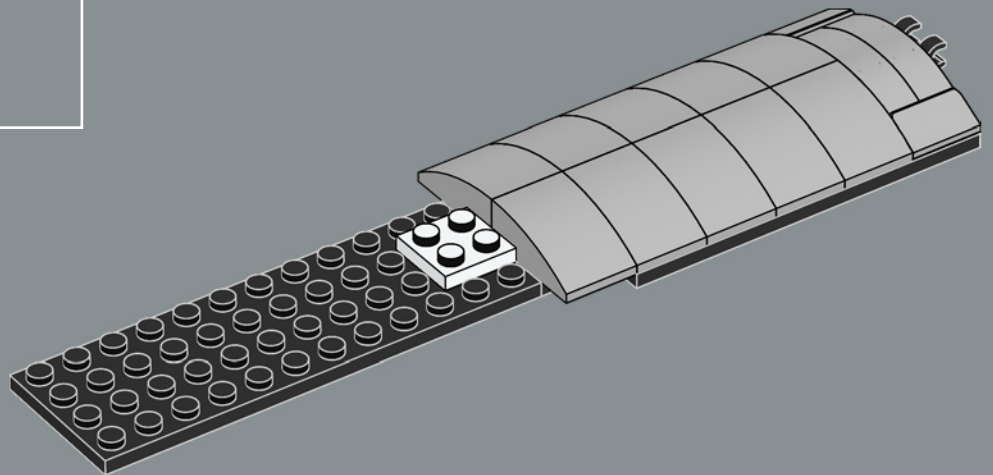




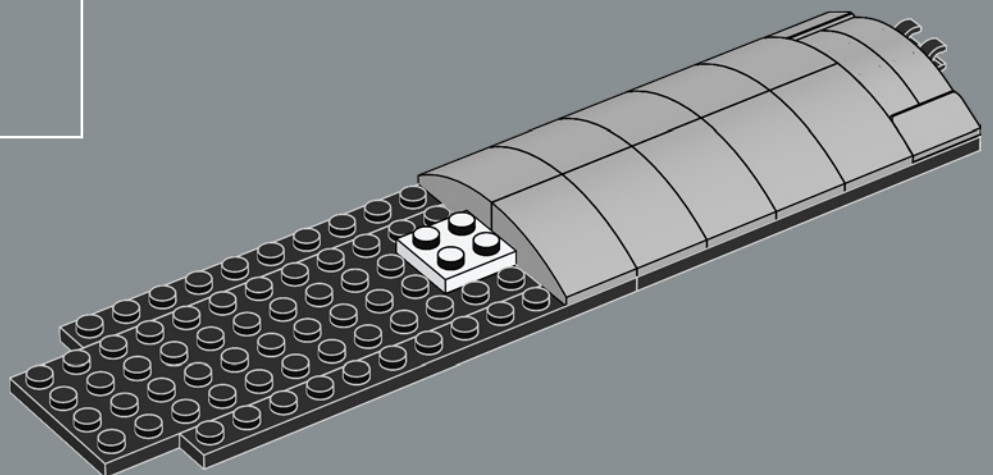
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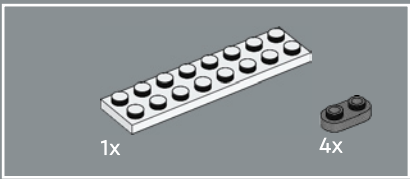


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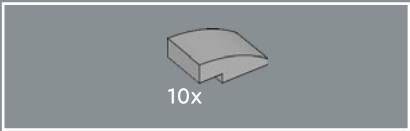
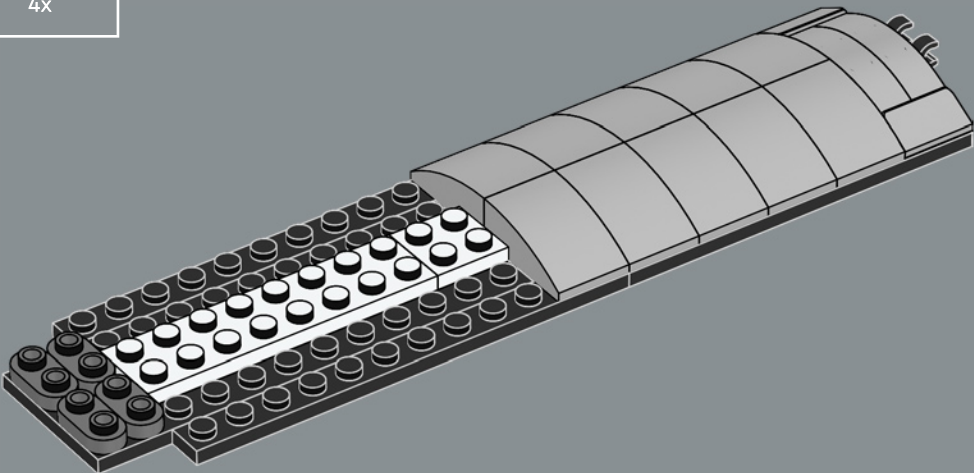


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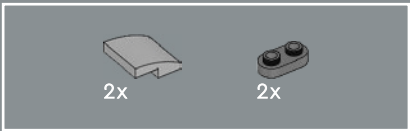
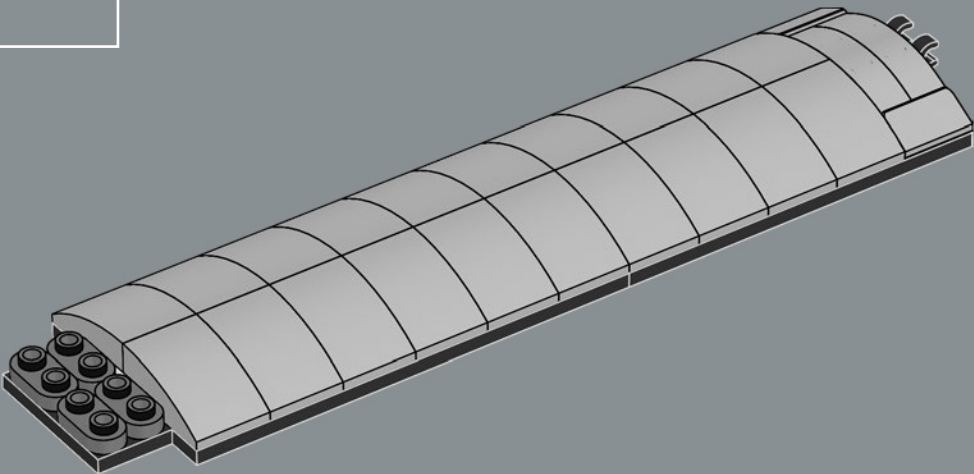




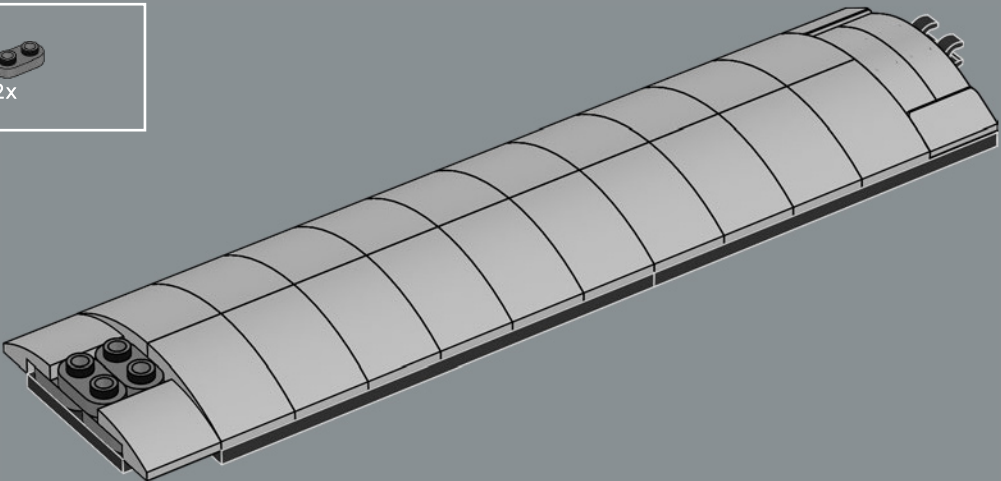
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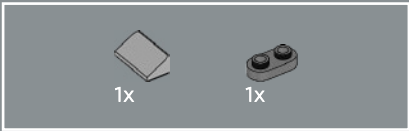
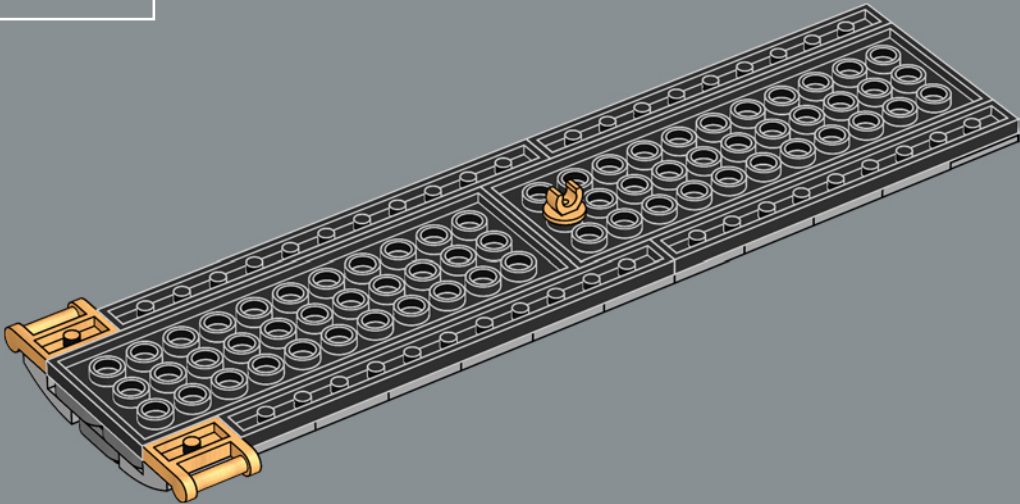


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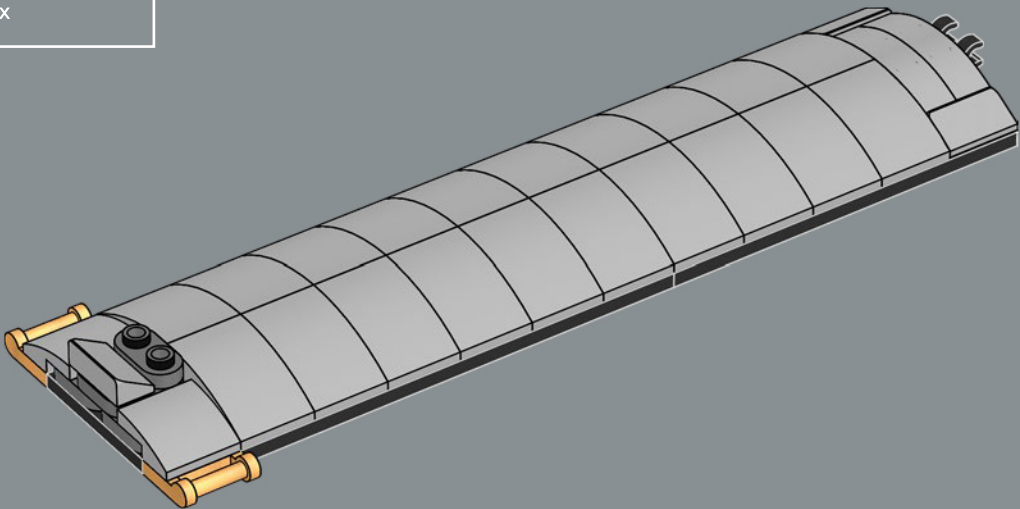




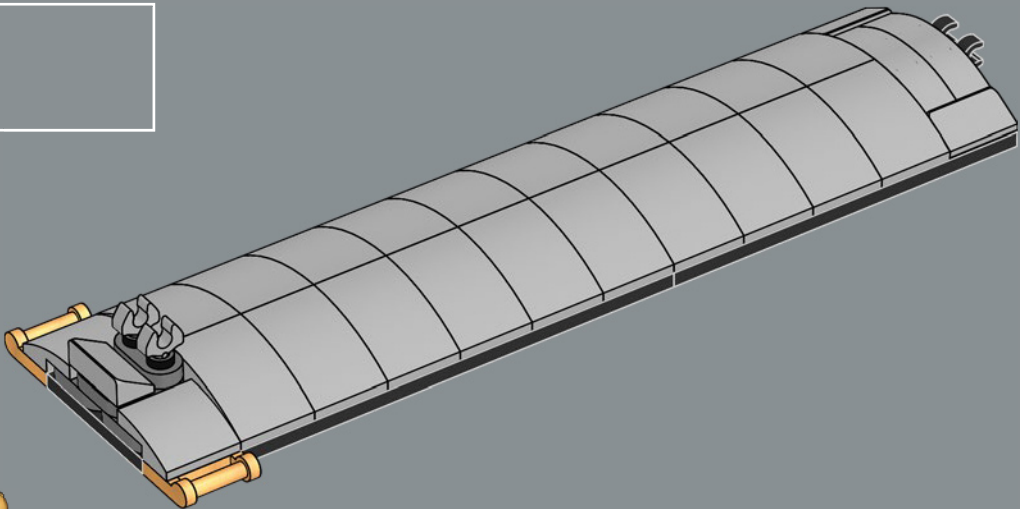
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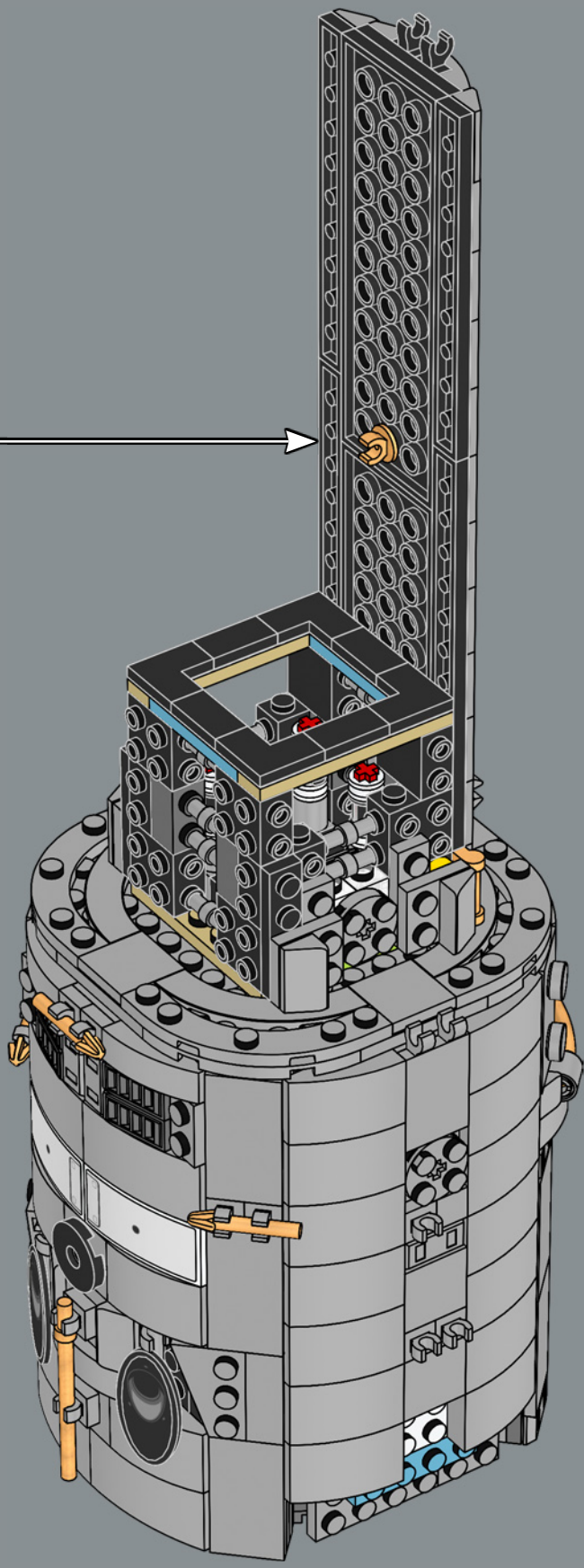


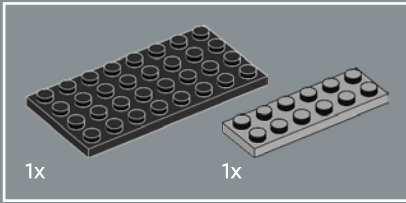
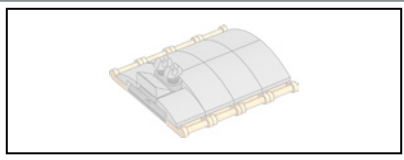
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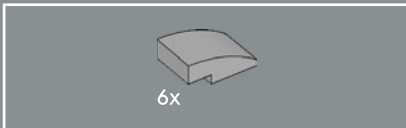
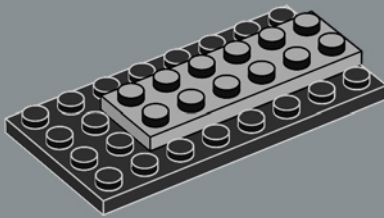
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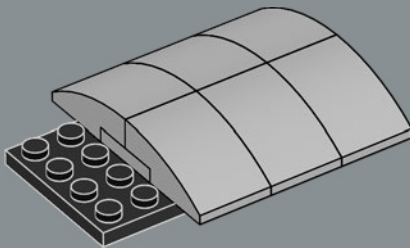




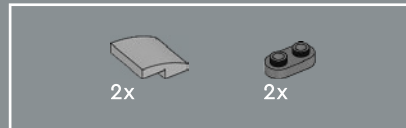
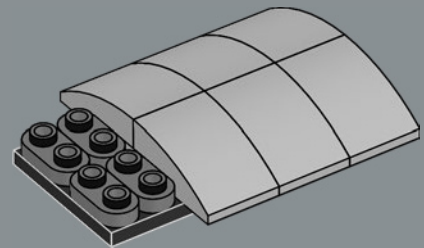
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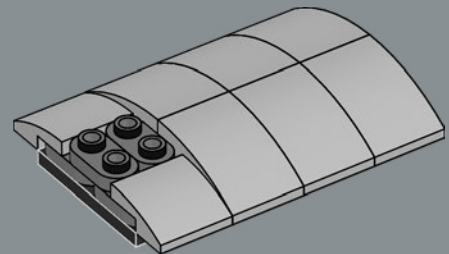
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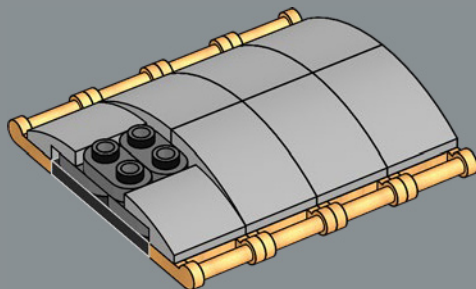
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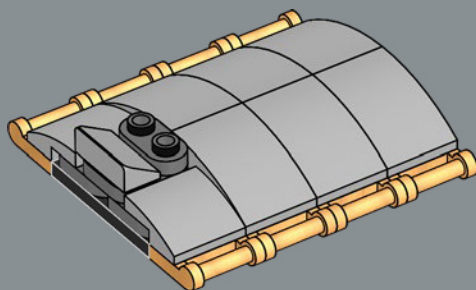


1x



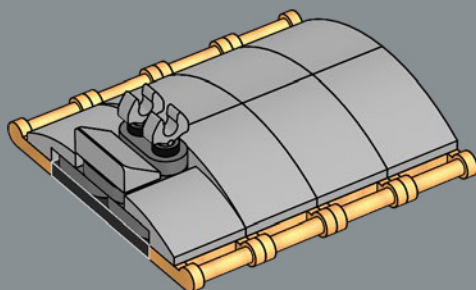
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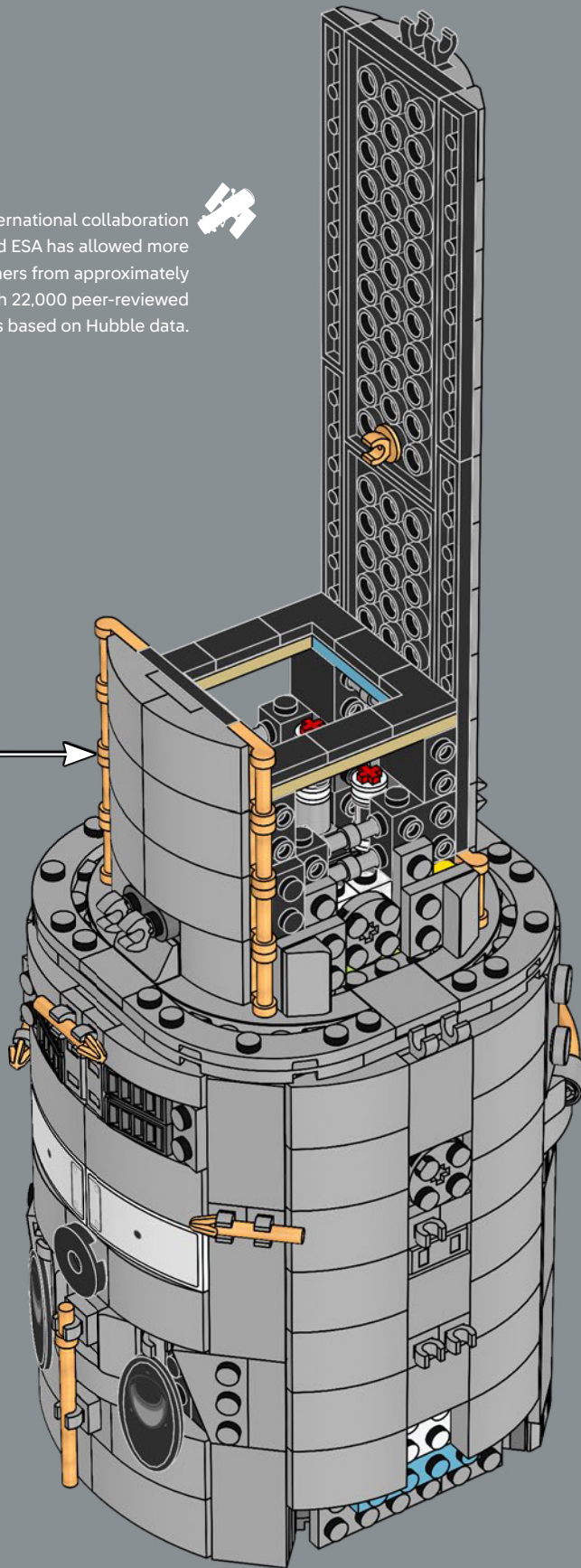
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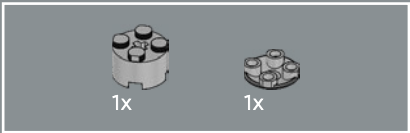
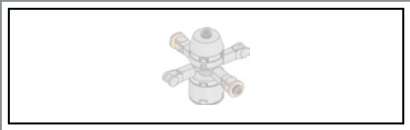
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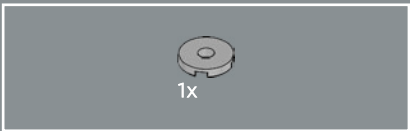
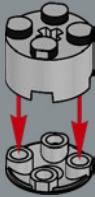
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The strong international collaboration between NASA and ESA has allowed more than 25,000 astronomers from approximately 40 countries to publish 22,000 peer-reviewed science papers based on Hubble data.

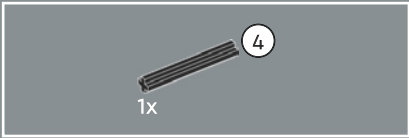




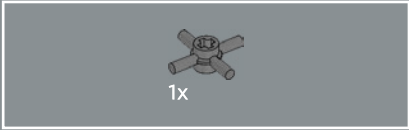
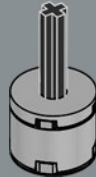
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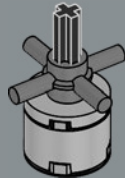
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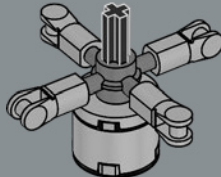
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229



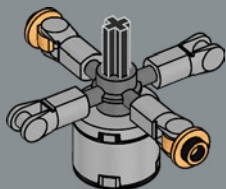
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2x

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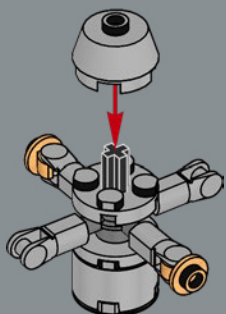


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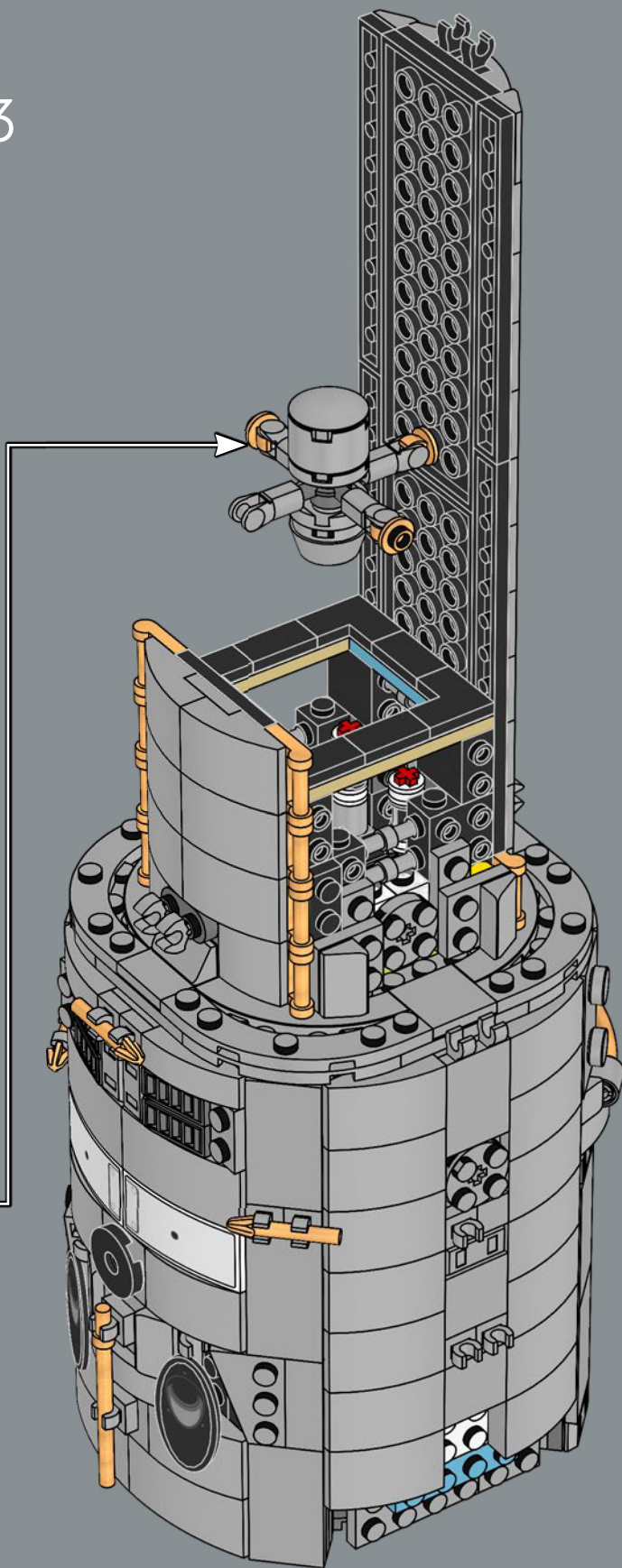


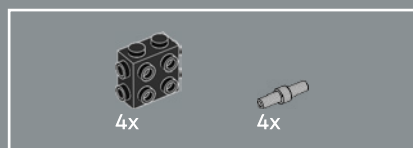
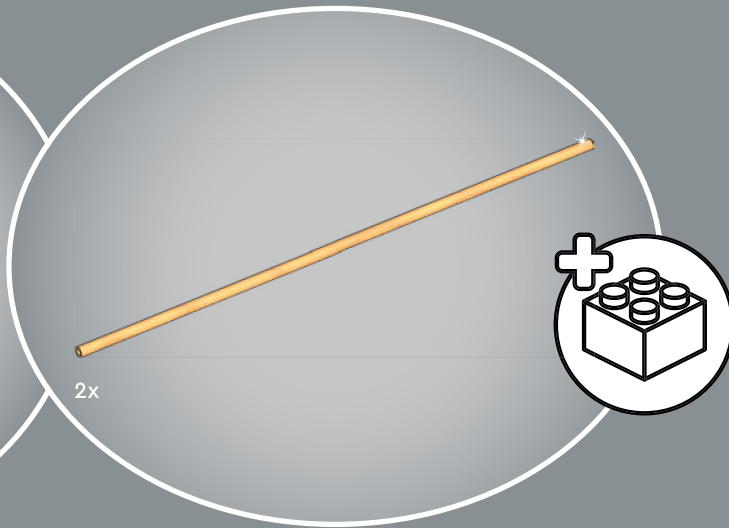
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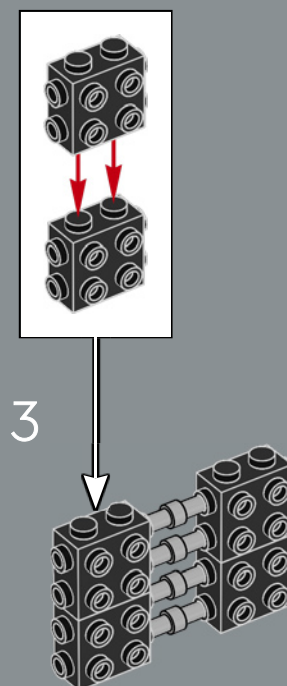
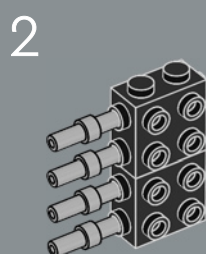
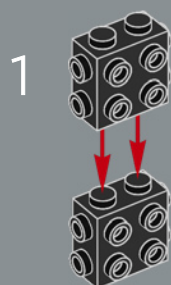


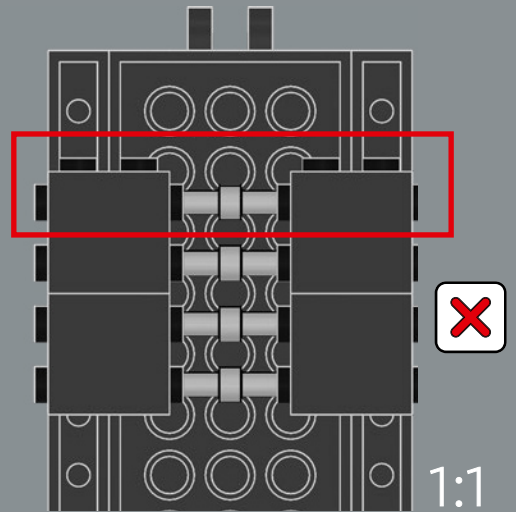
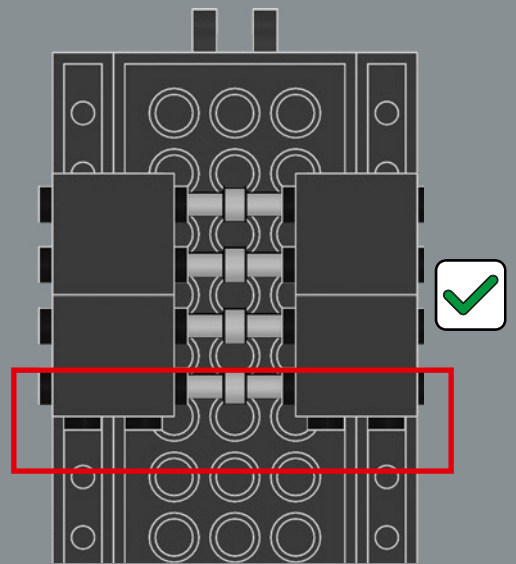
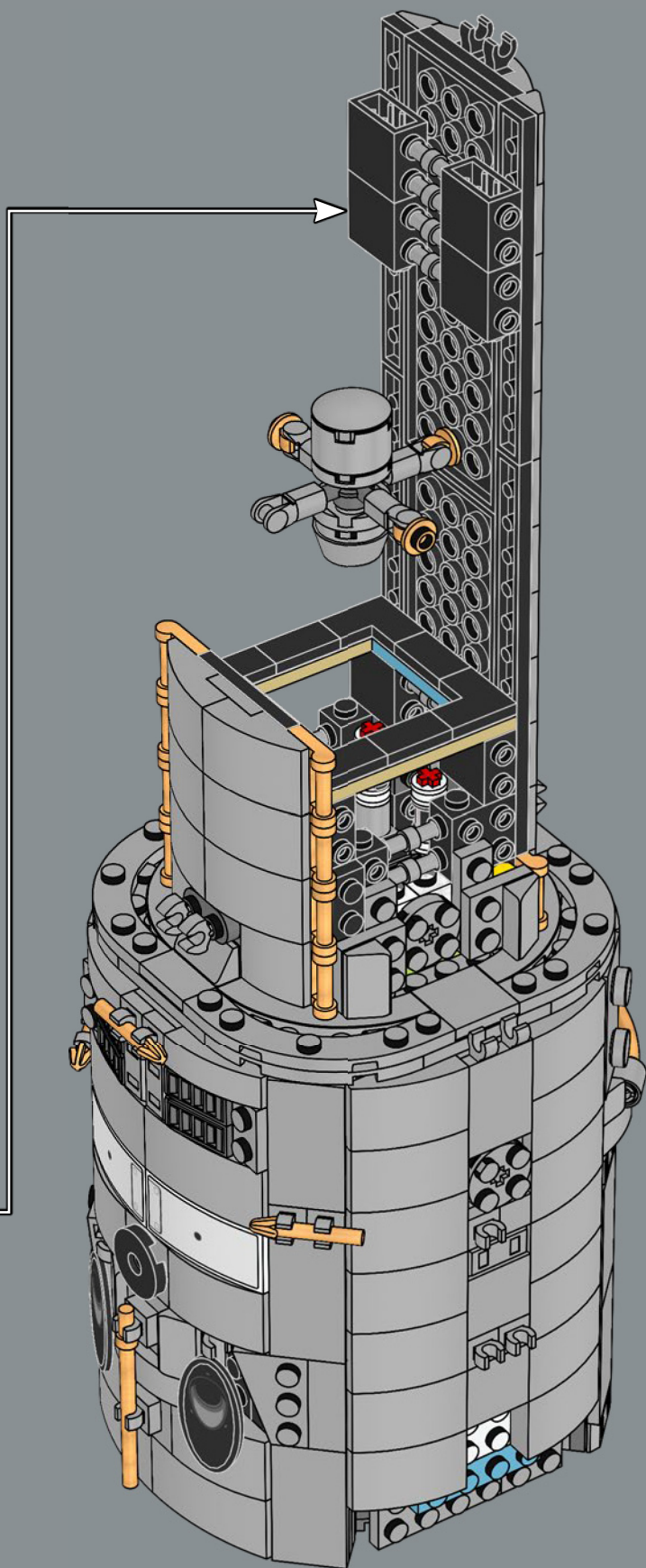
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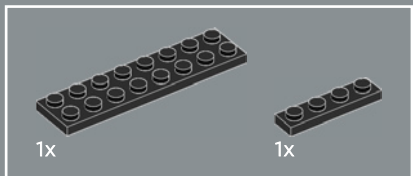
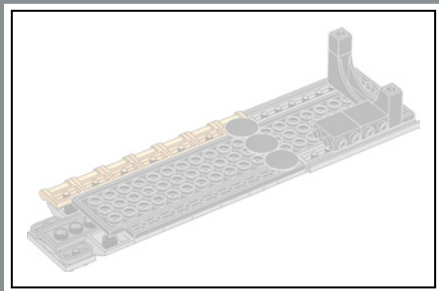




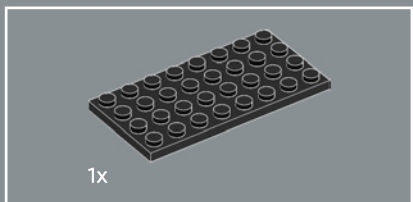
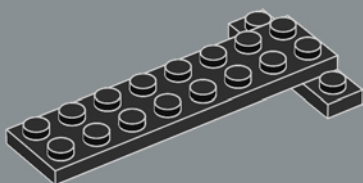
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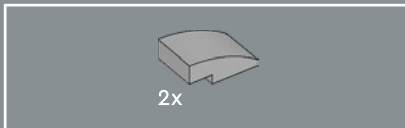
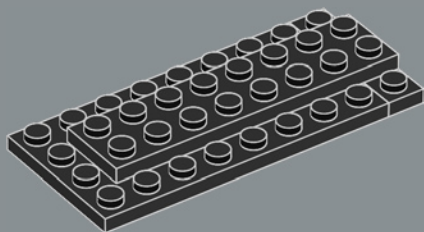




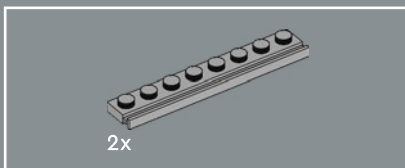
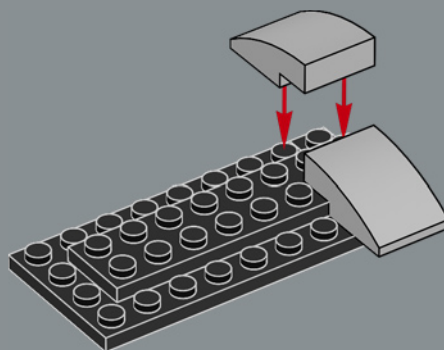
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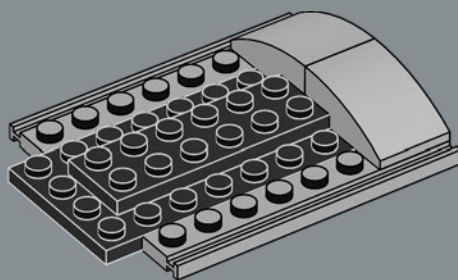
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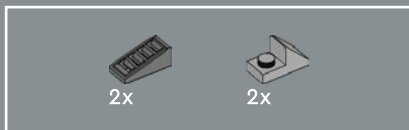


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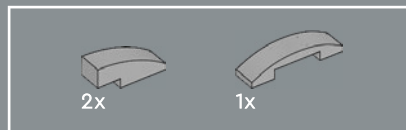
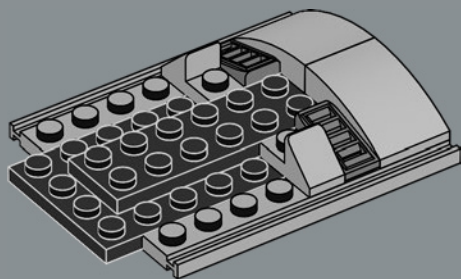


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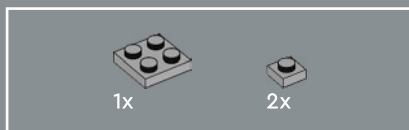
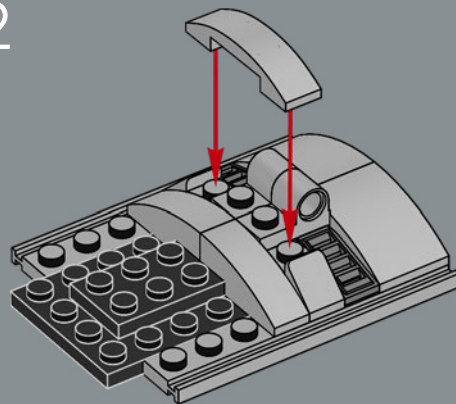




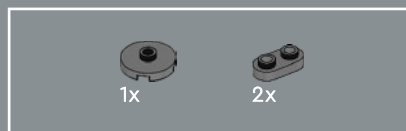
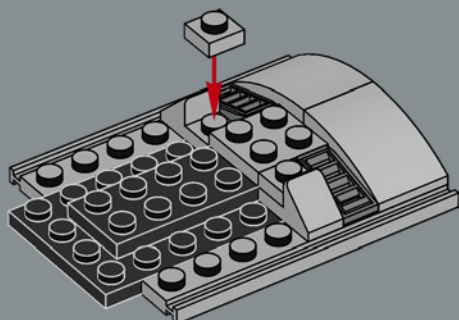
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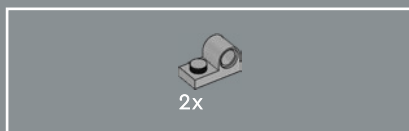
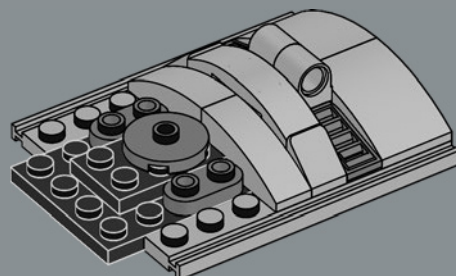
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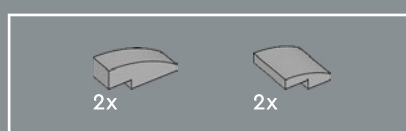
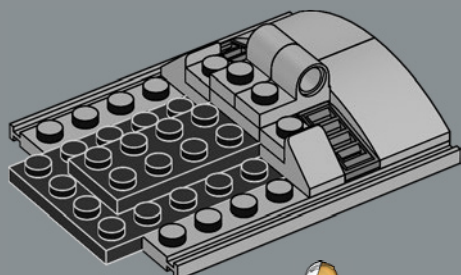
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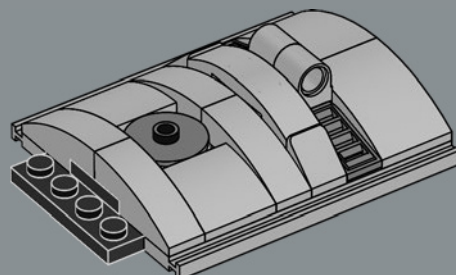
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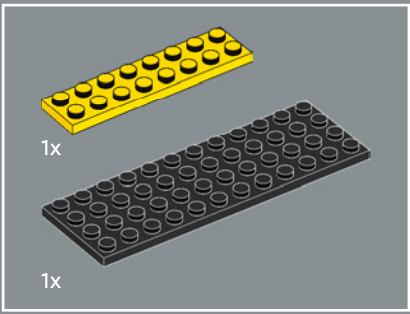


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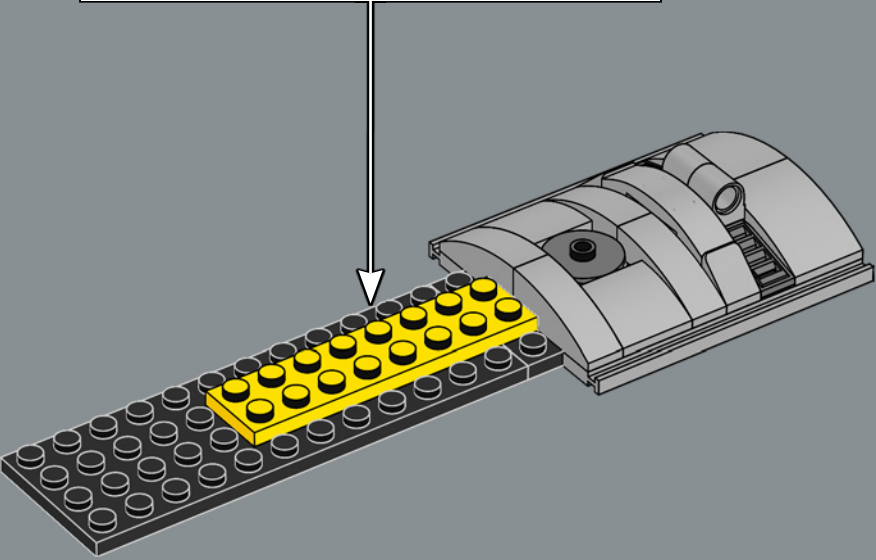
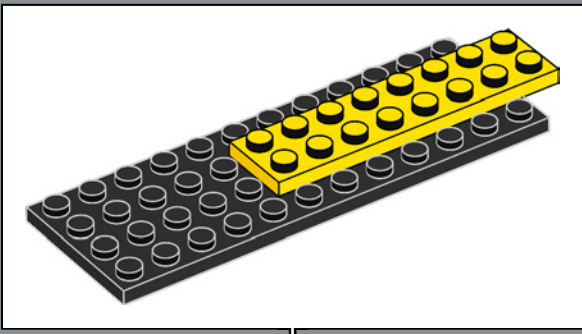


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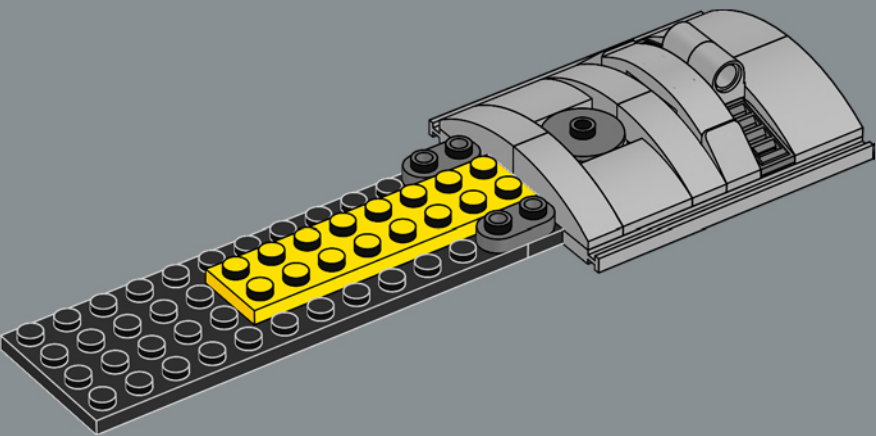


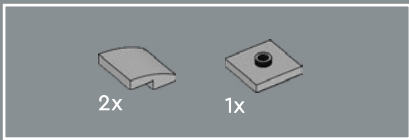


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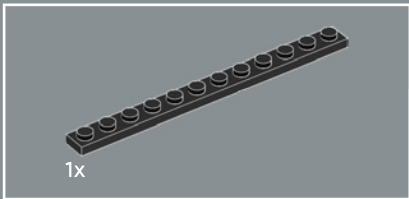
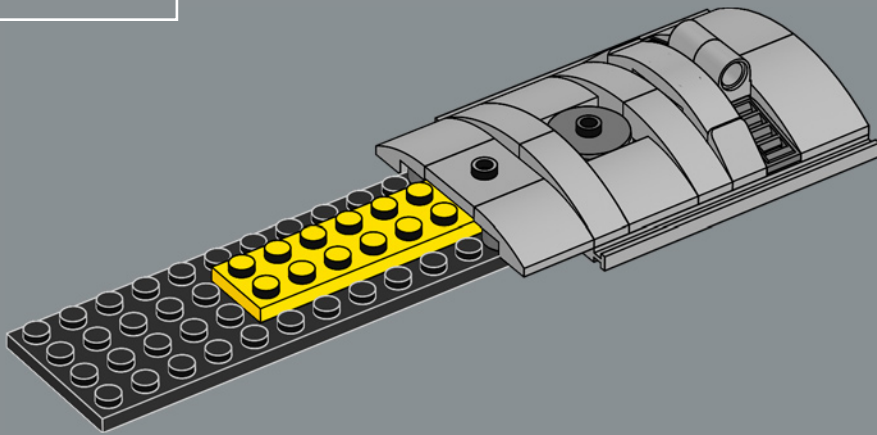


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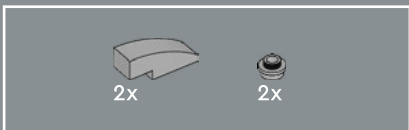
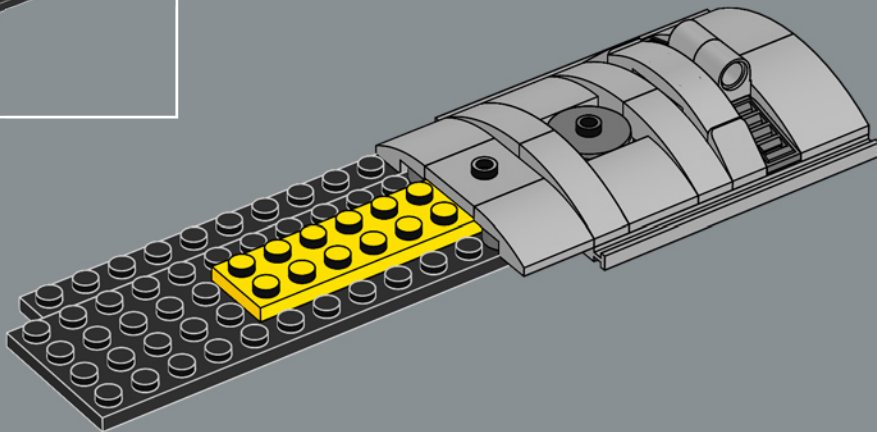




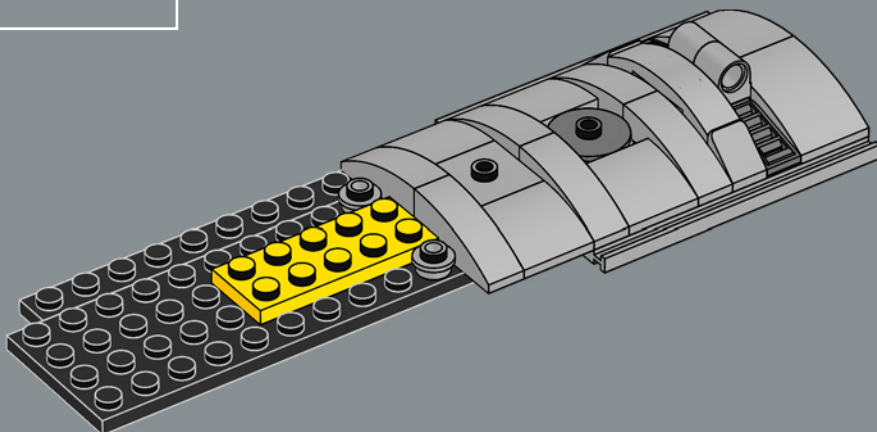
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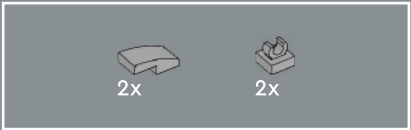


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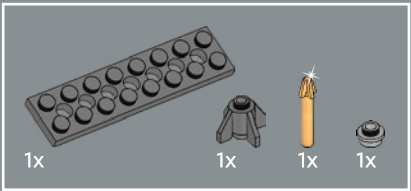
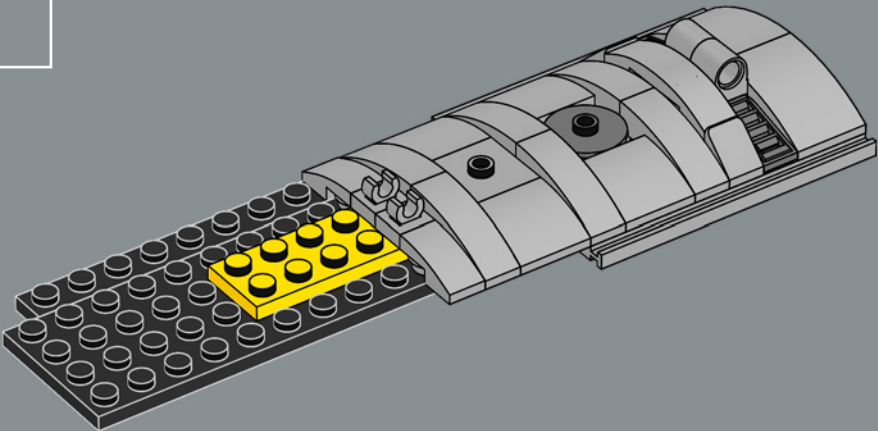


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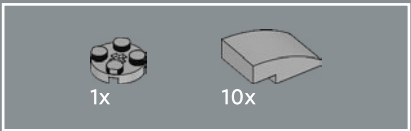
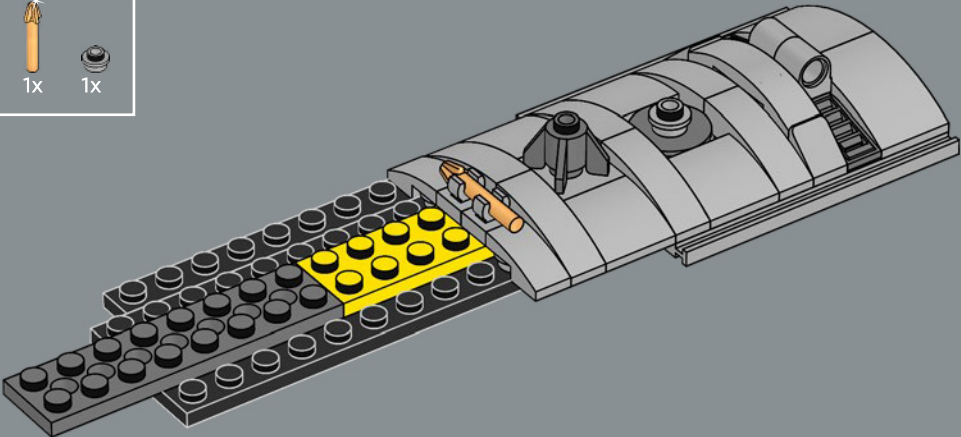




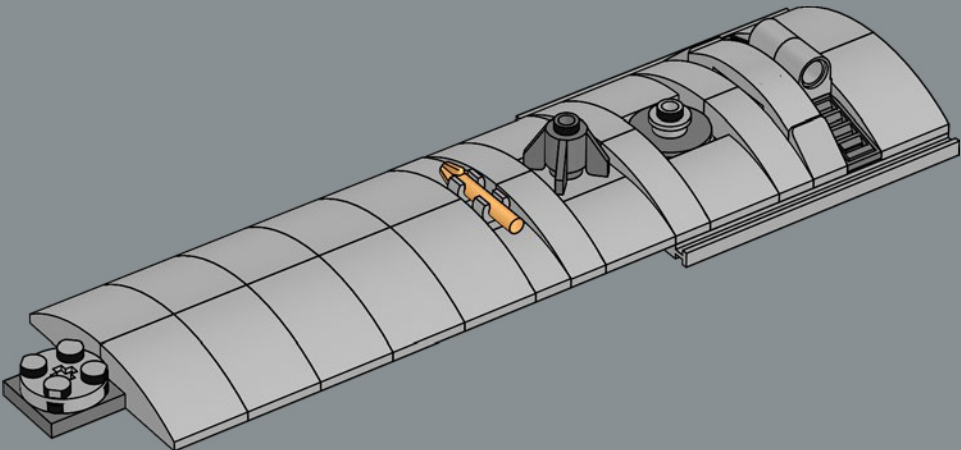
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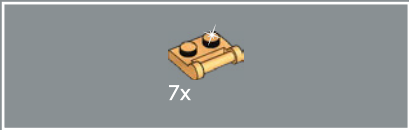


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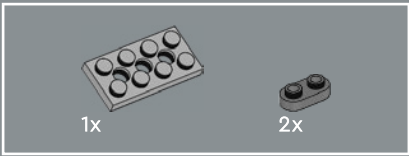
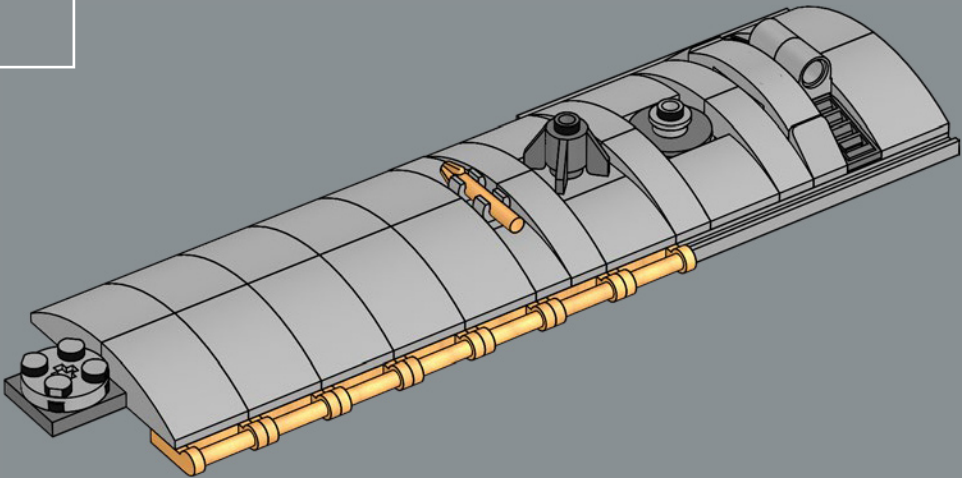


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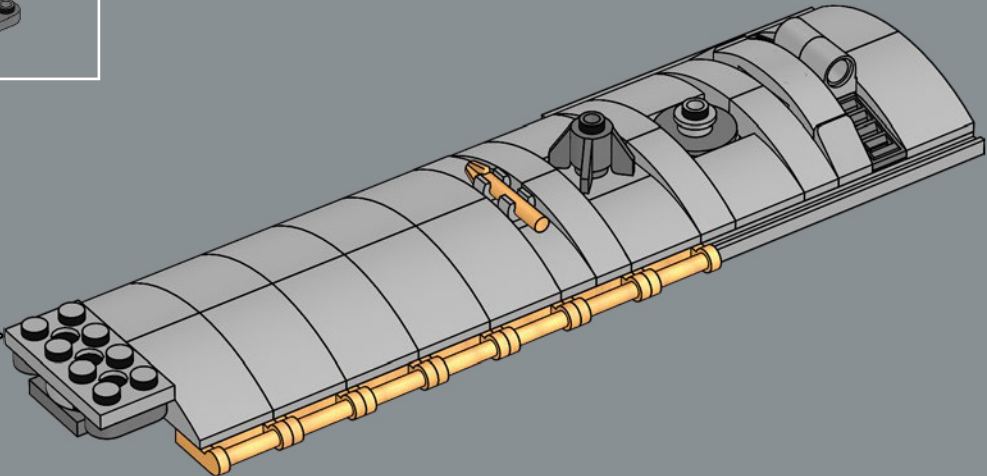
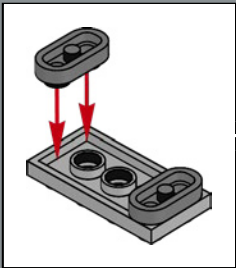




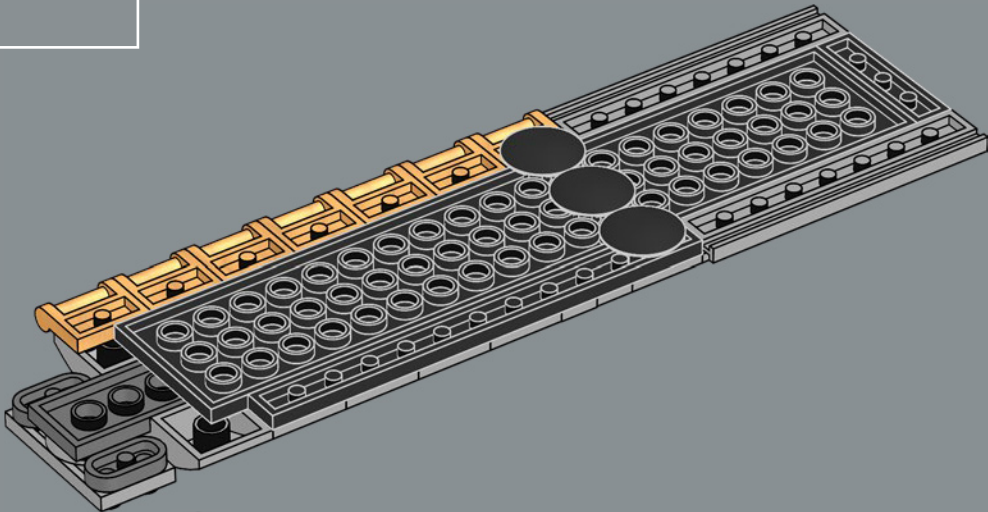
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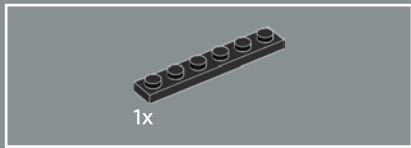


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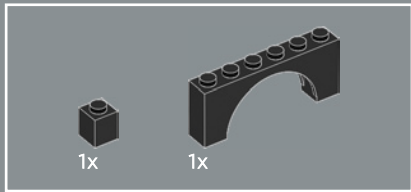
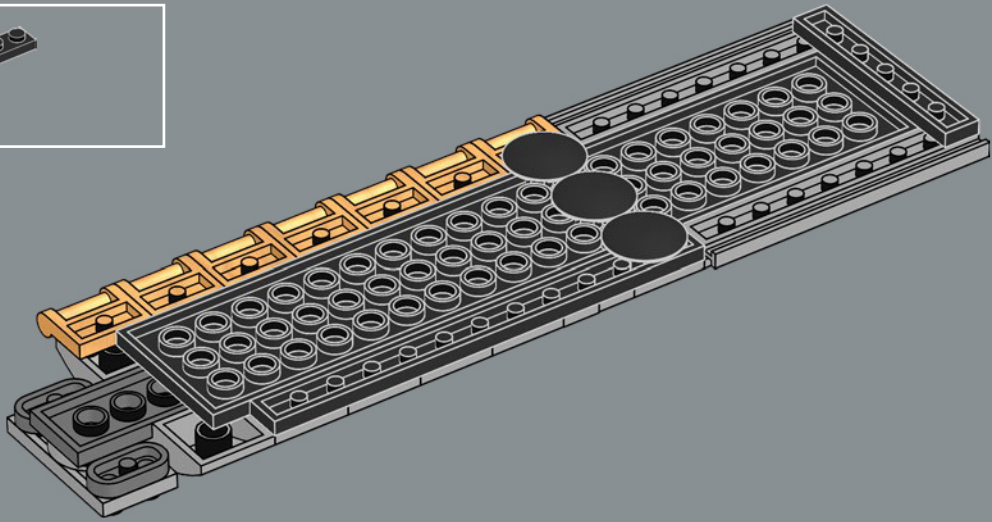


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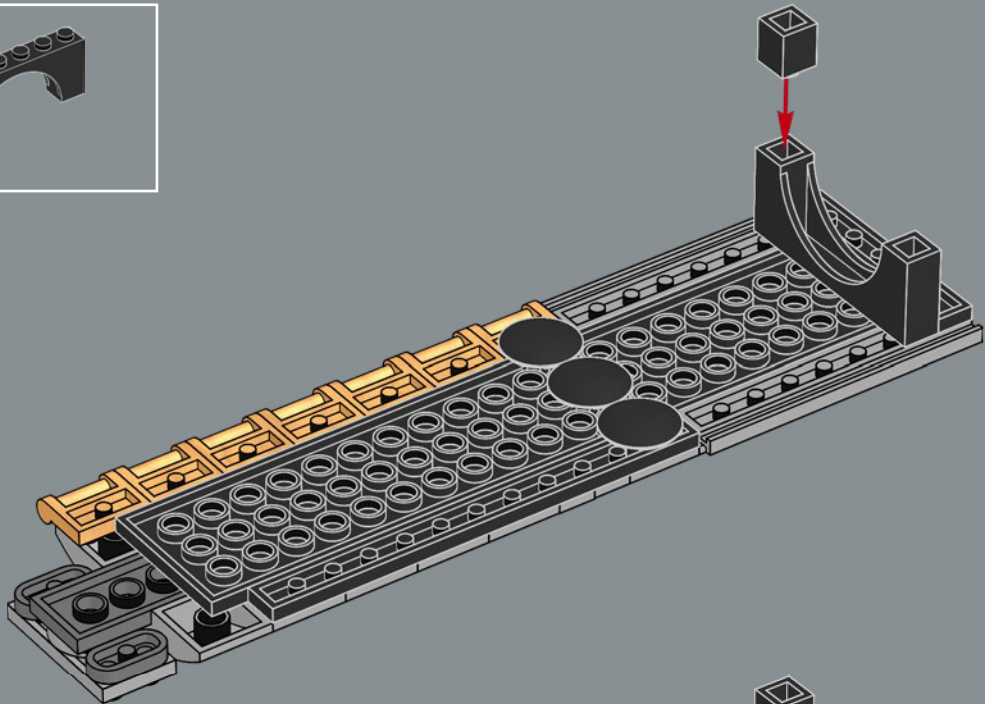




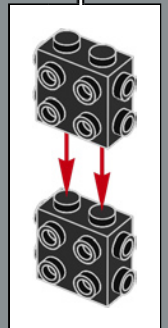
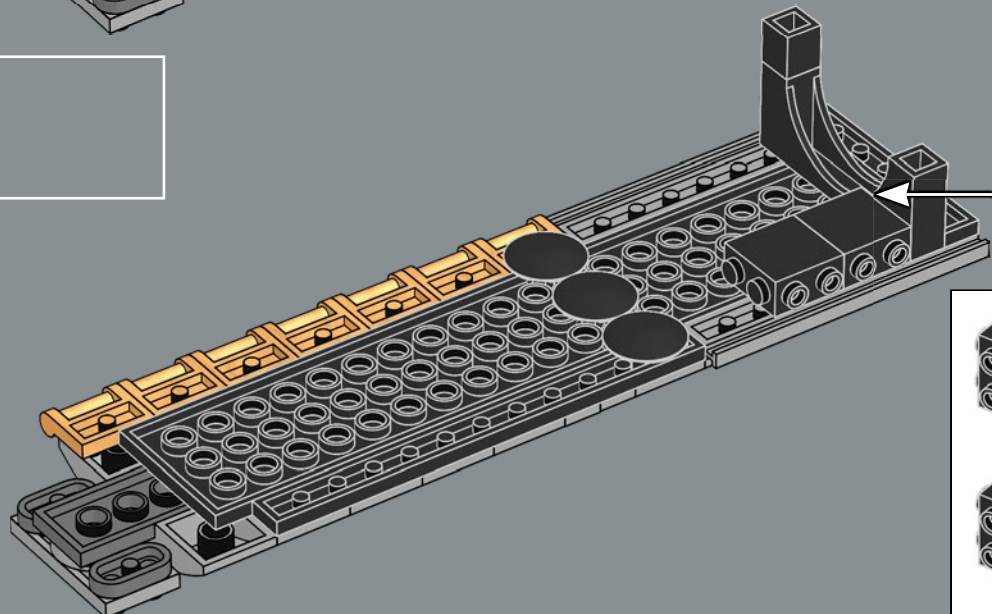
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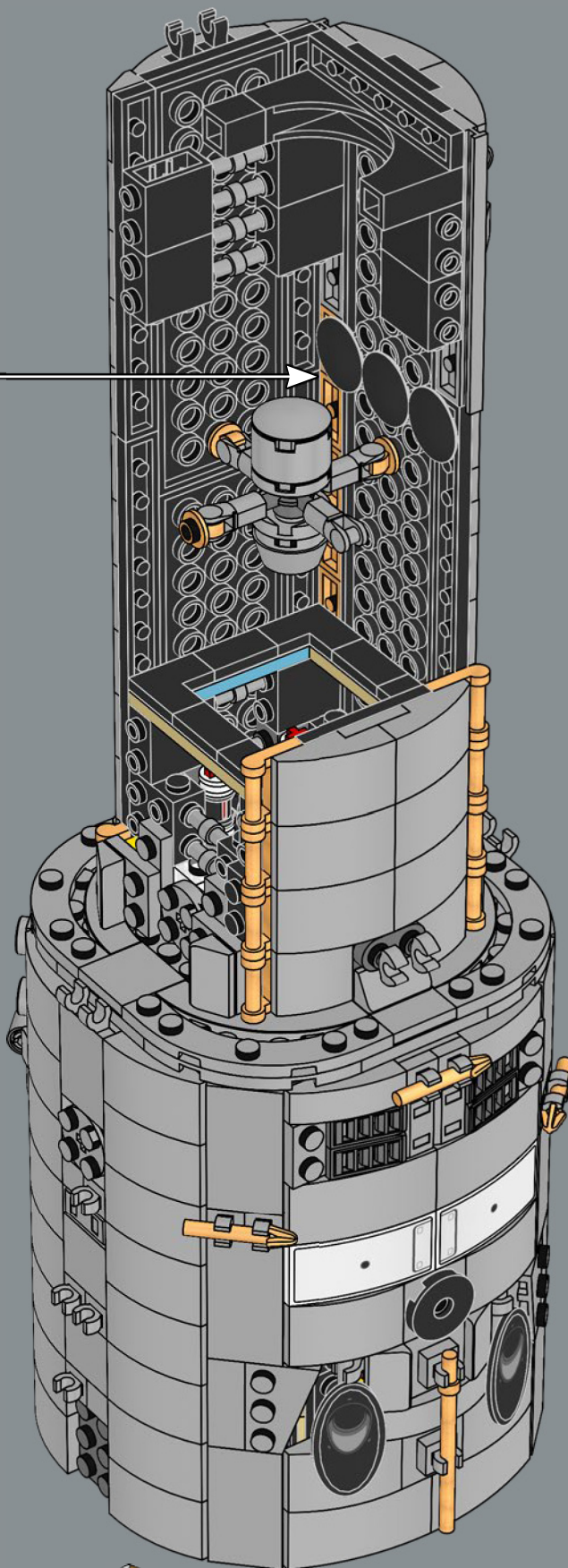
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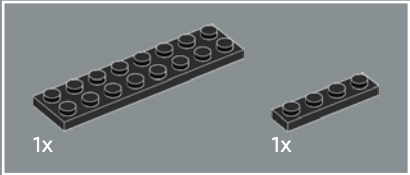
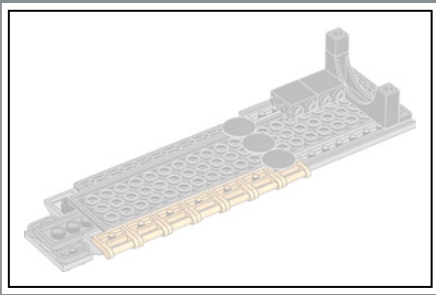


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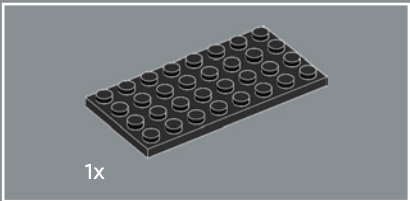
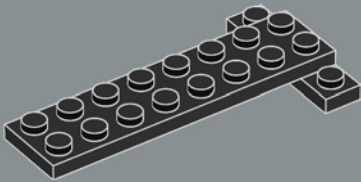


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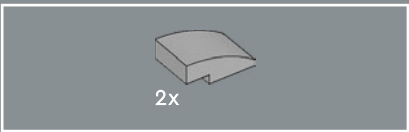
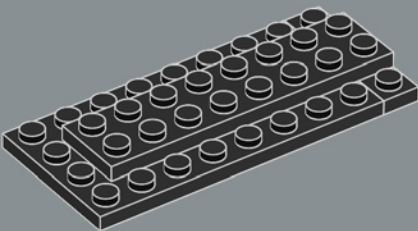




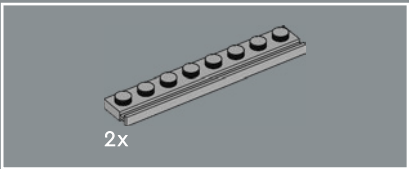
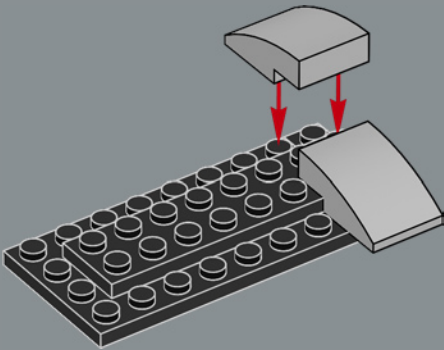
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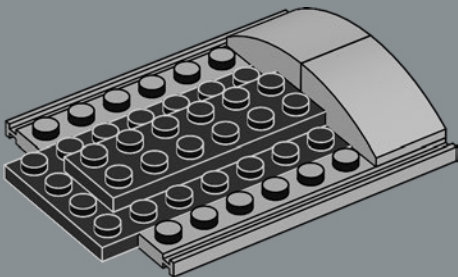
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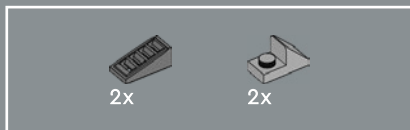


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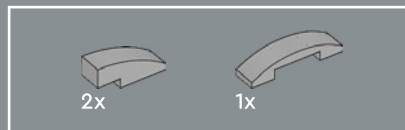
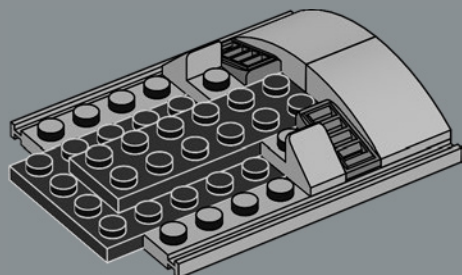


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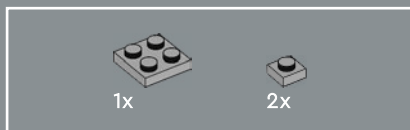
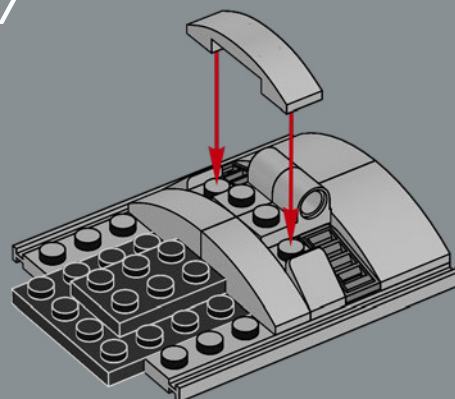




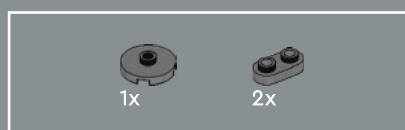
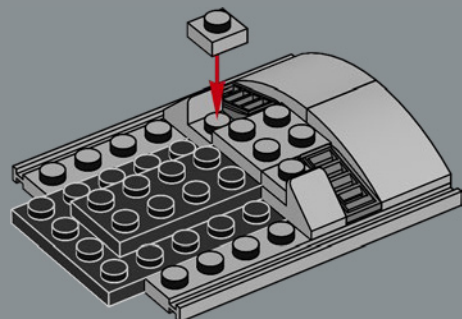
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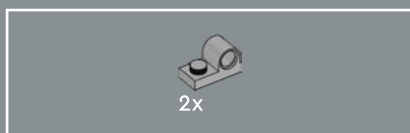
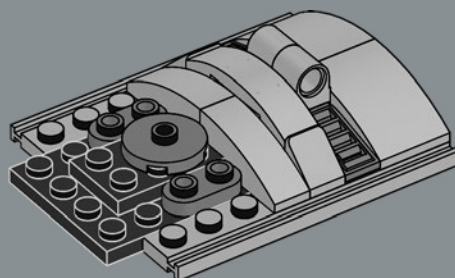
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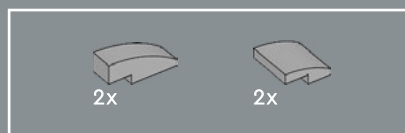
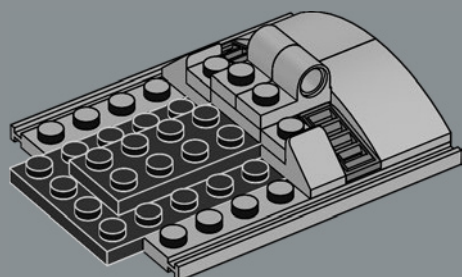
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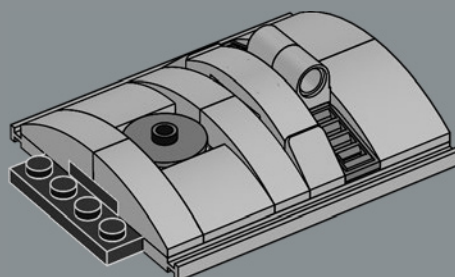
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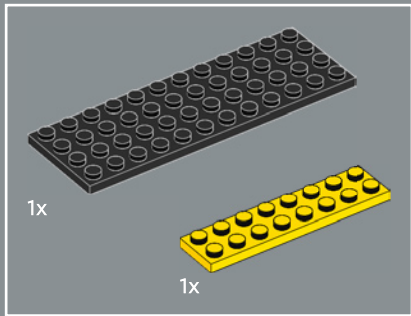


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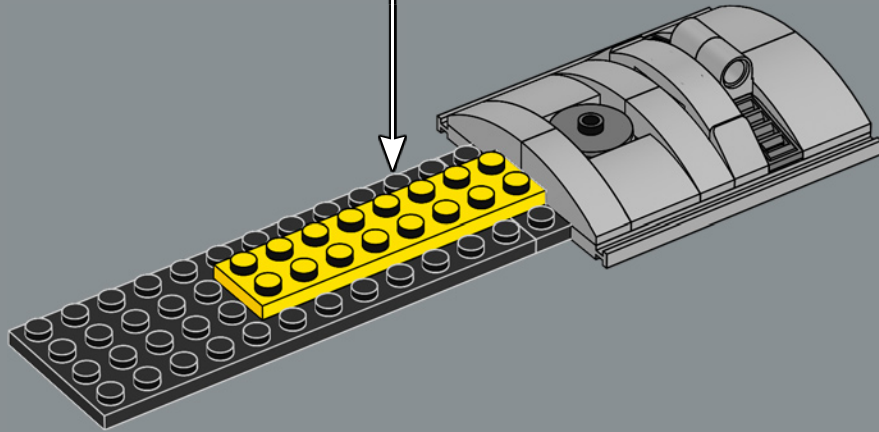
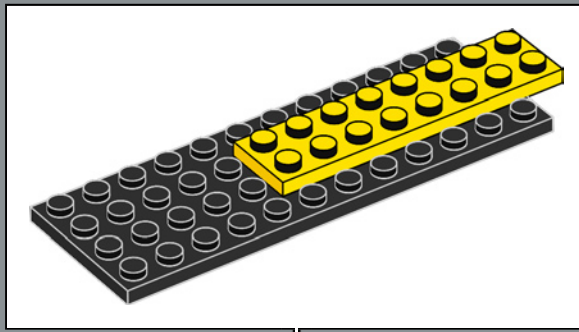


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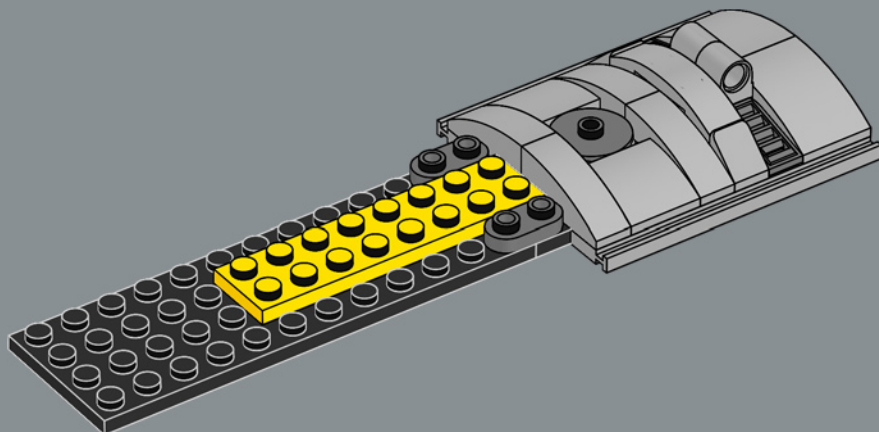


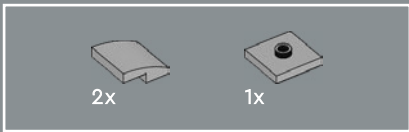


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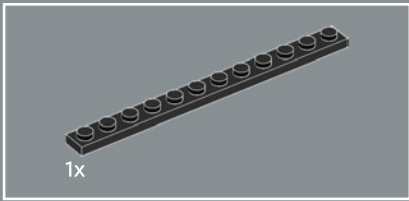
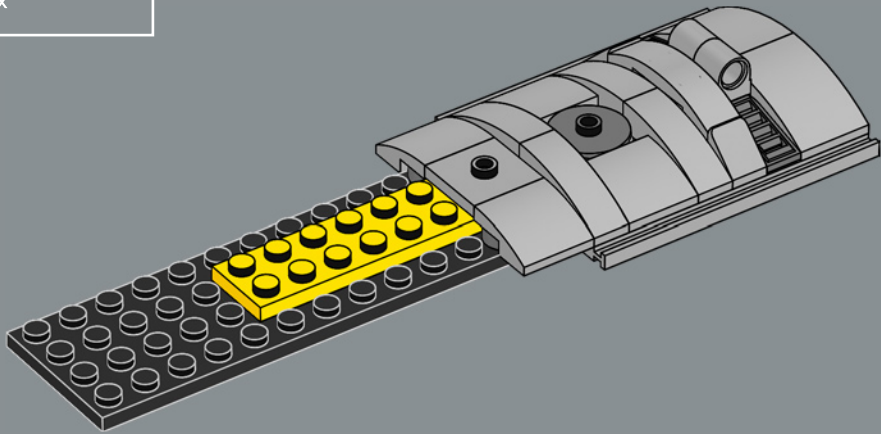


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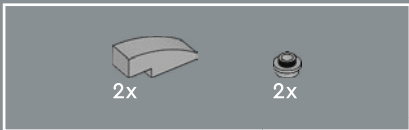
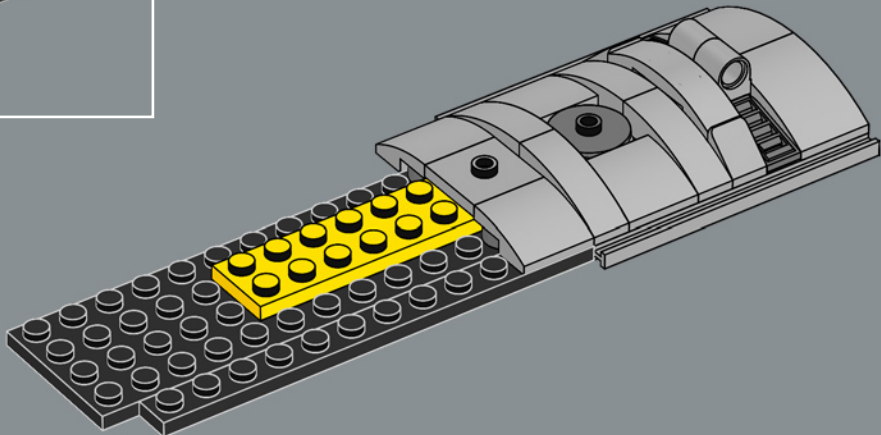




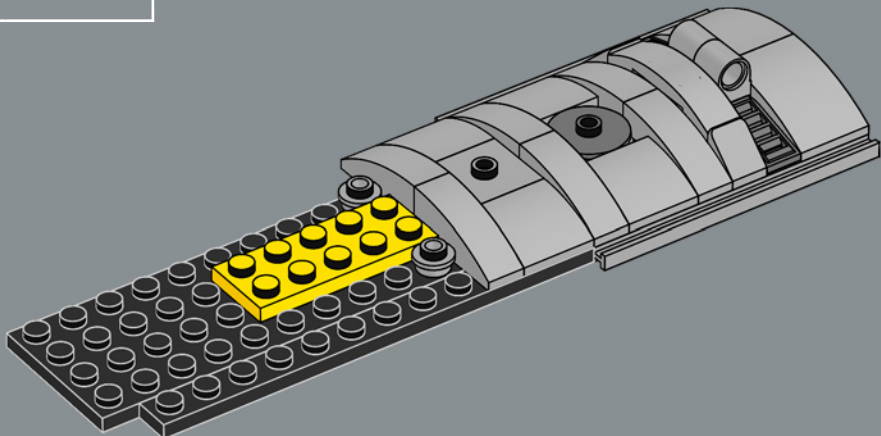
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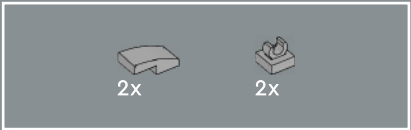


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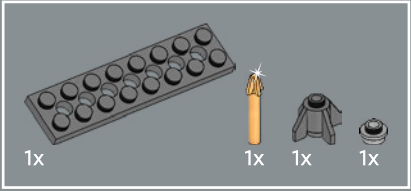
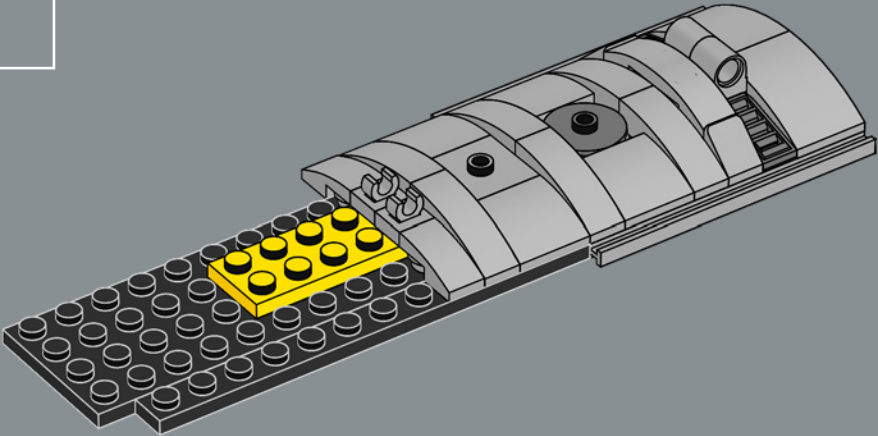


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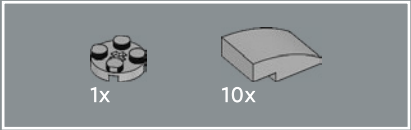
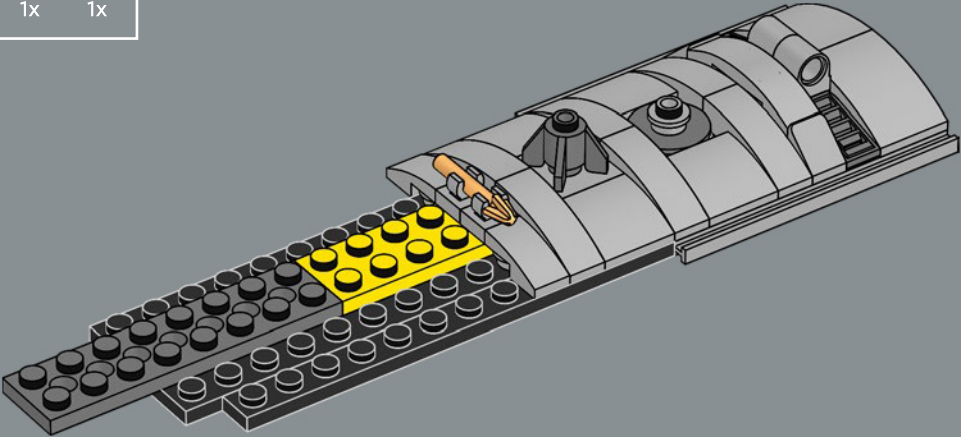




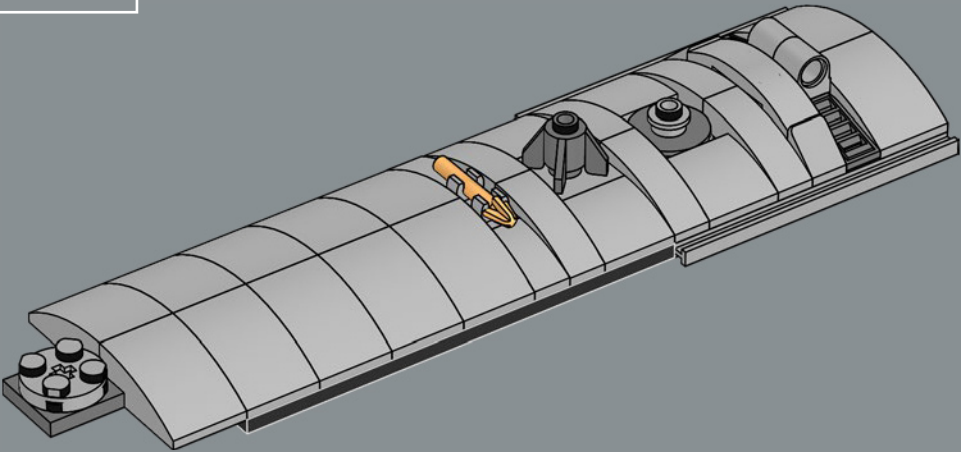
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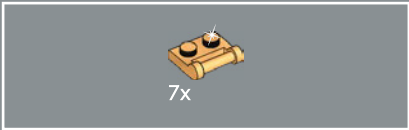


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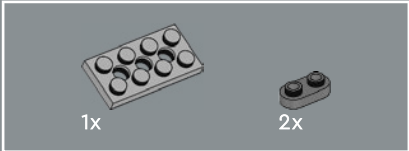
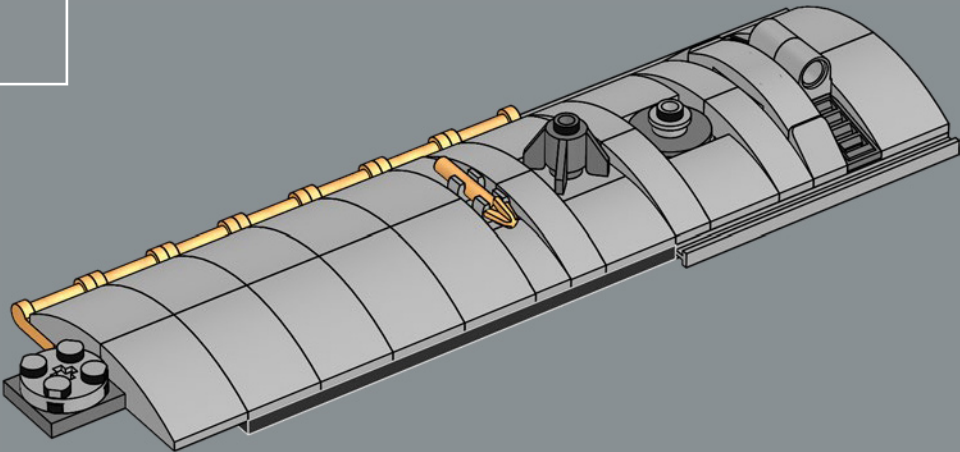


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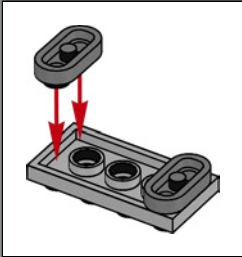
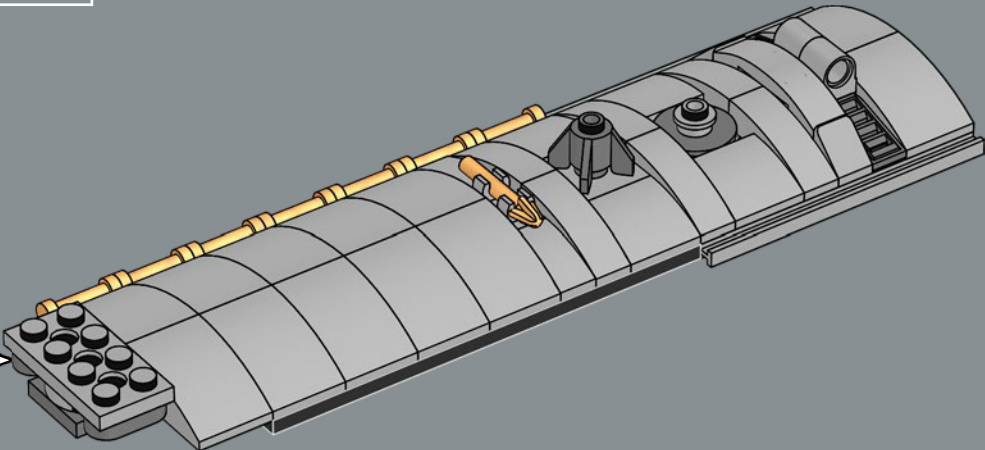




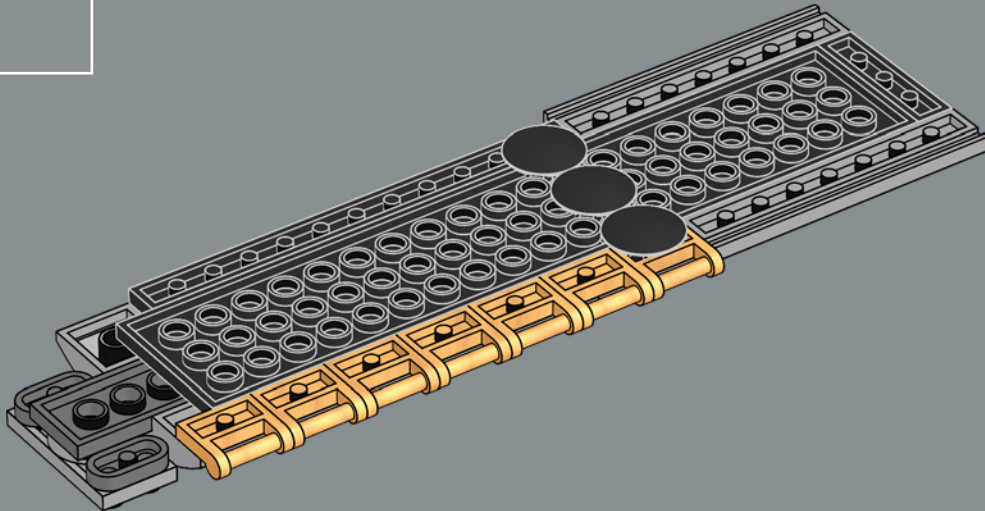
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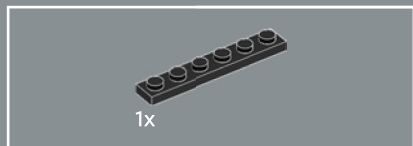


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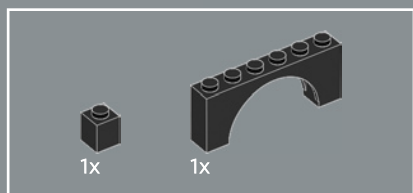
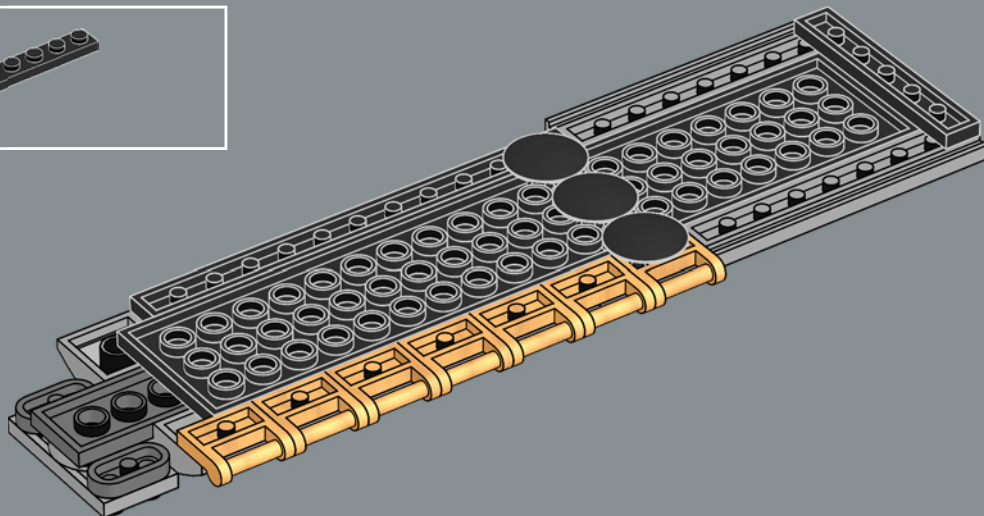


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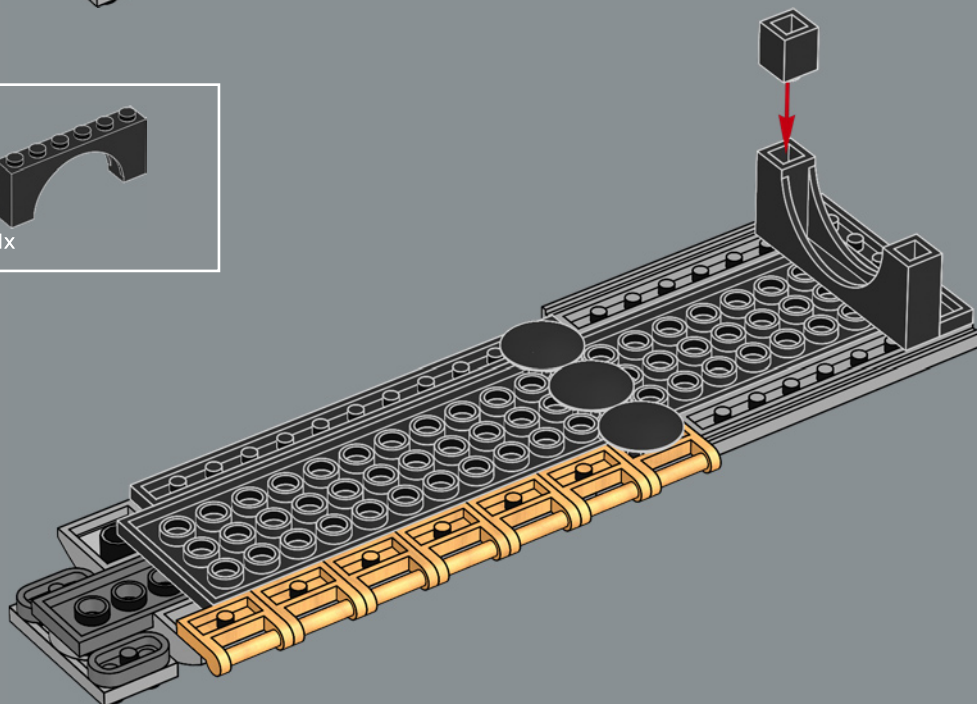




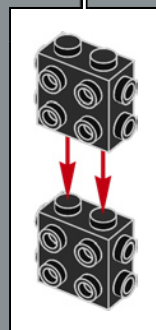
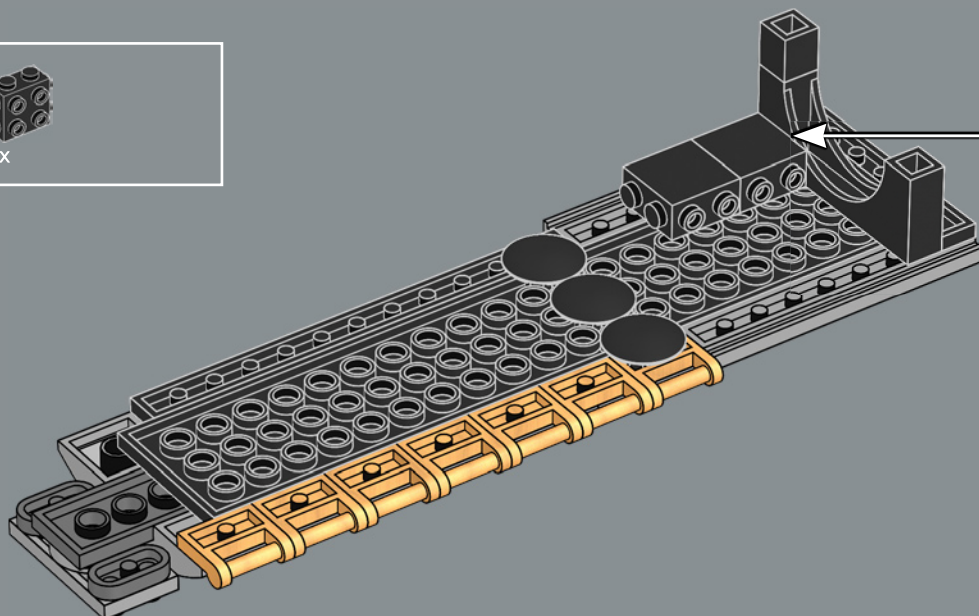
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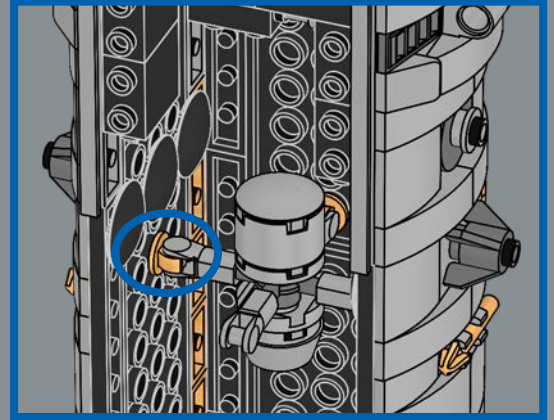
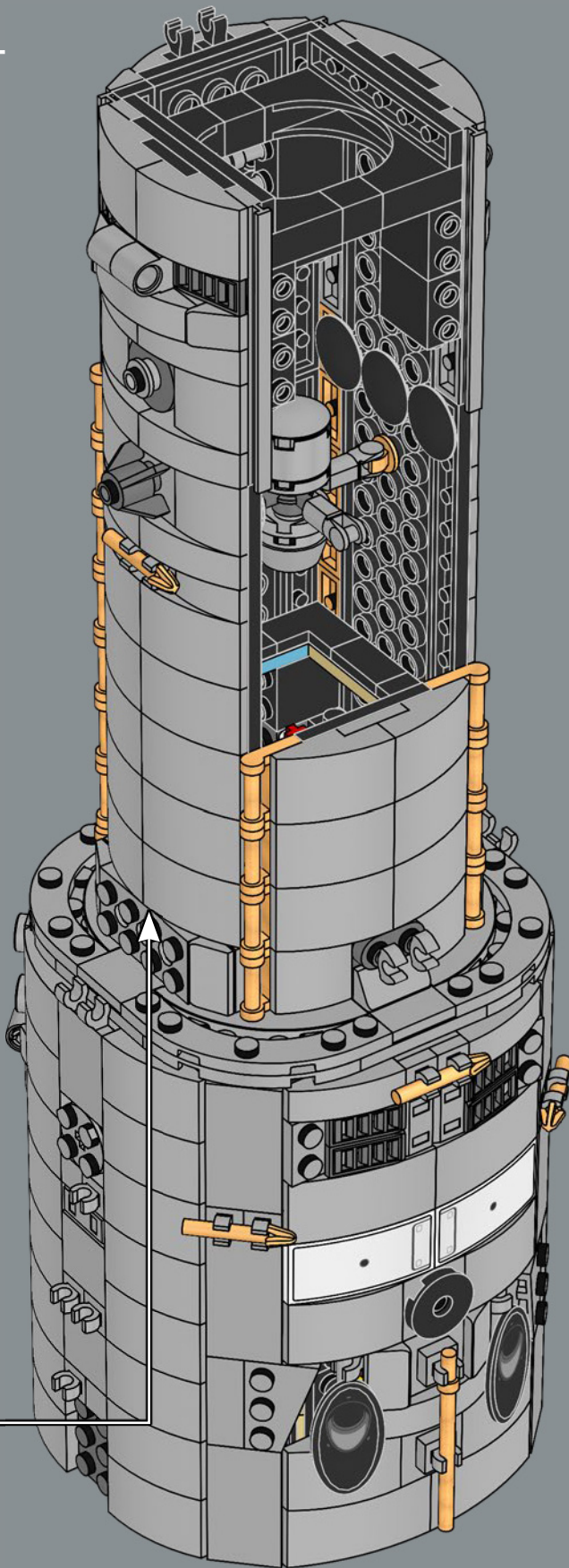
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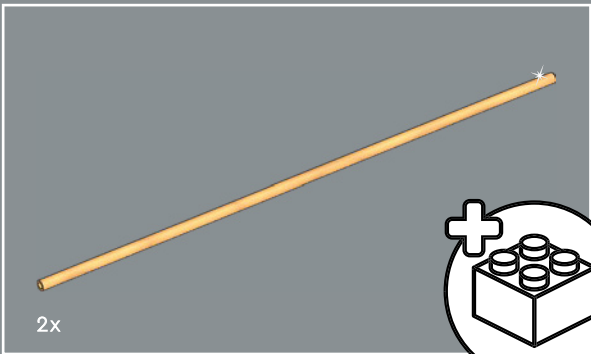


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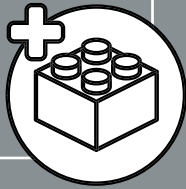


Hubble confirmed that the universe's expansion is accelerating – the first solid evidence for the mysterious force known as dark energy.

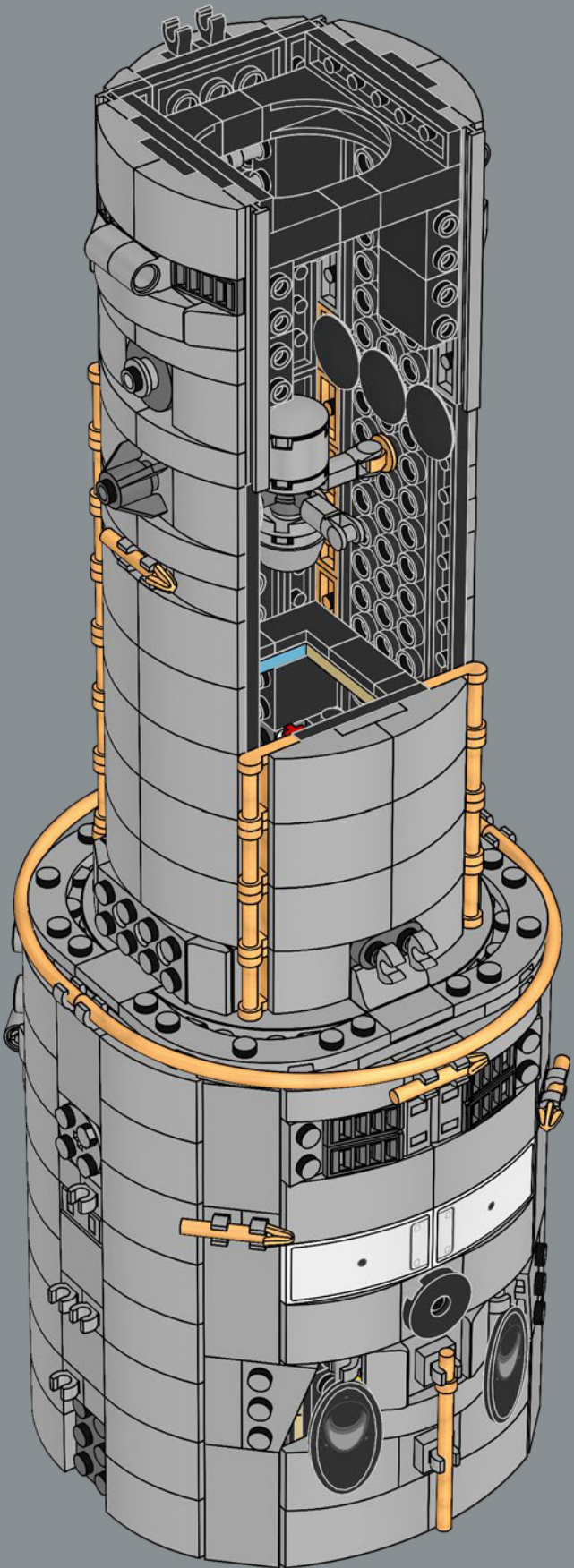


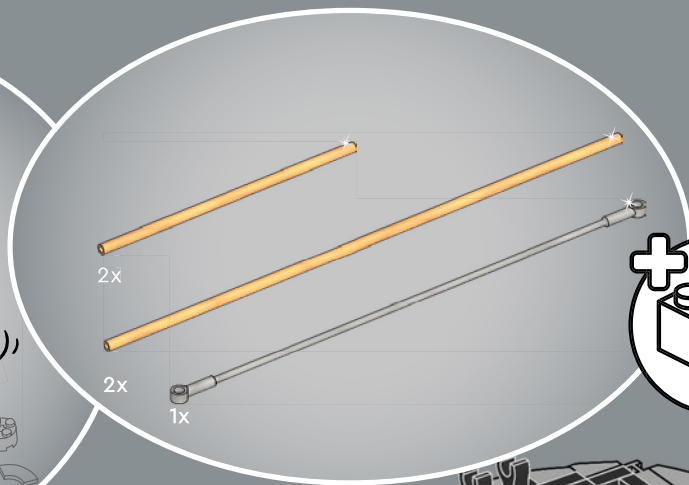


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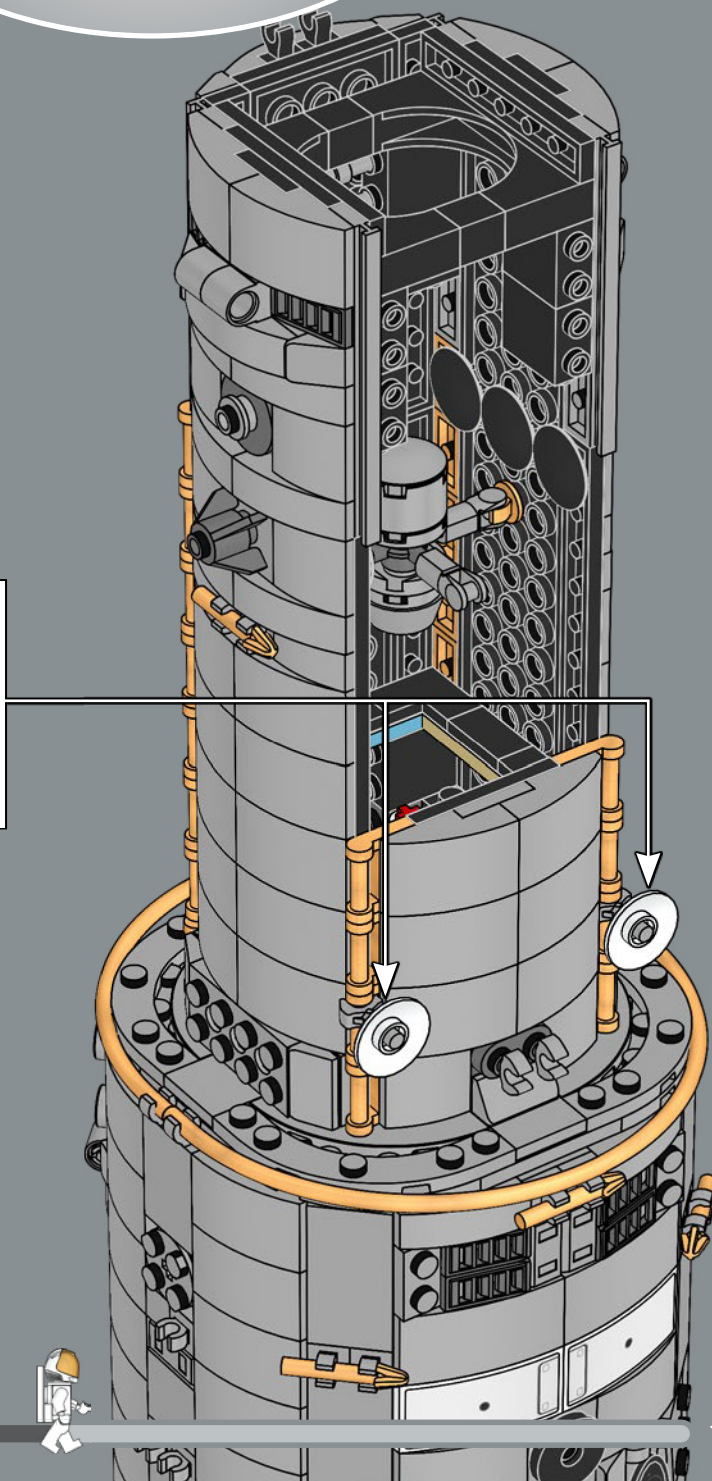
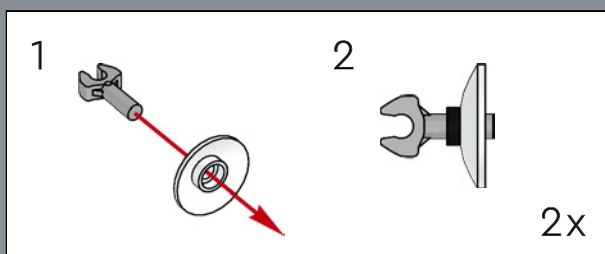


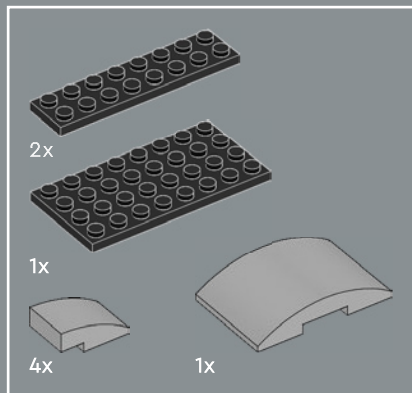
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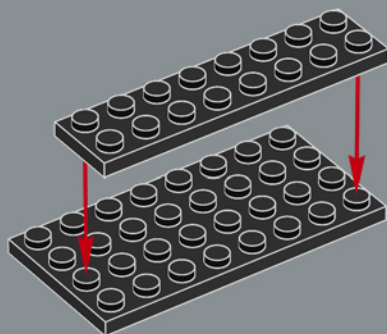
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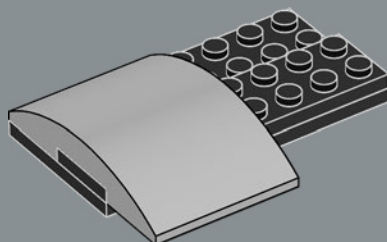


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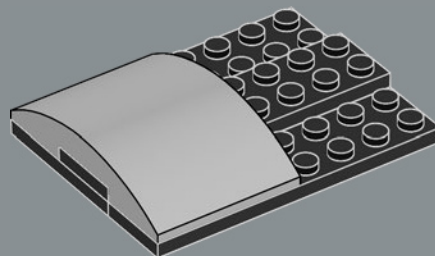
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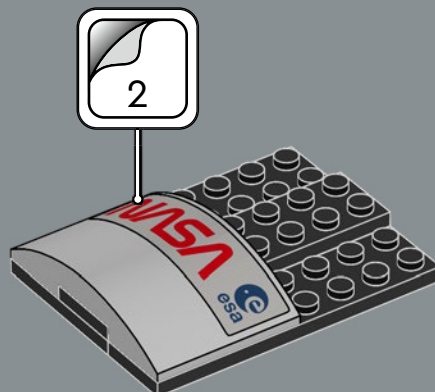
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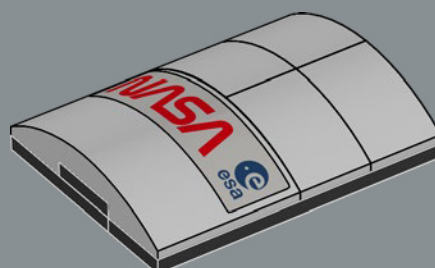
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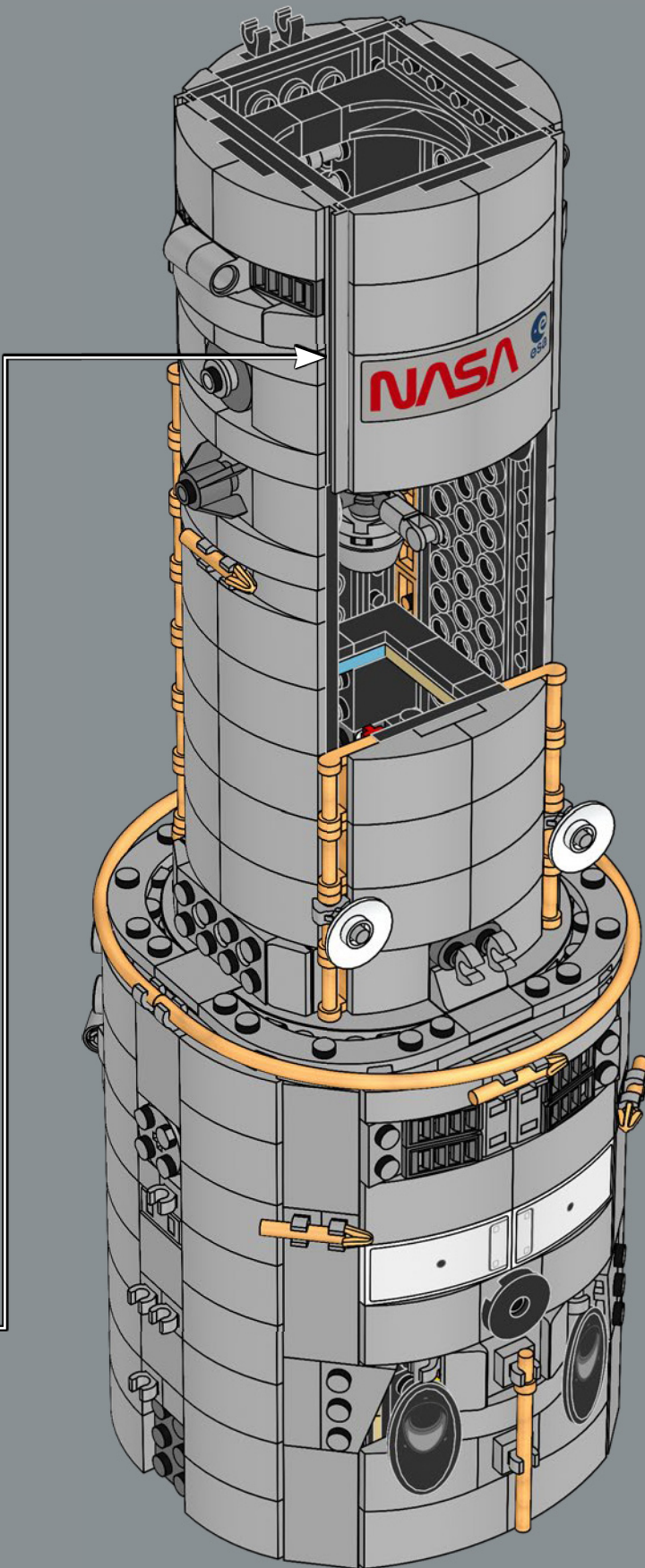
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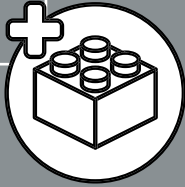
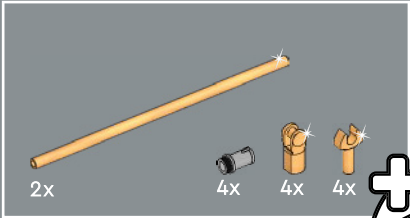
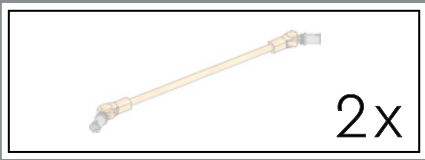


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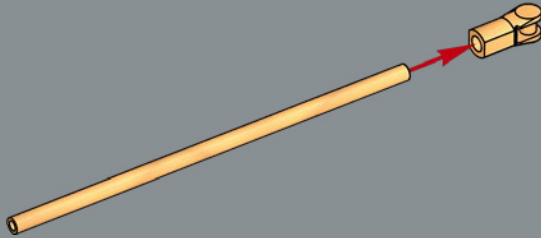
The telescope refined estimates of the Hubble constant, determining that the universe is approximately 13.8 billion years old.



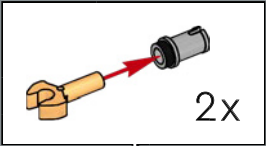
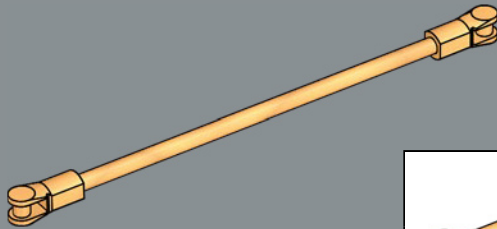


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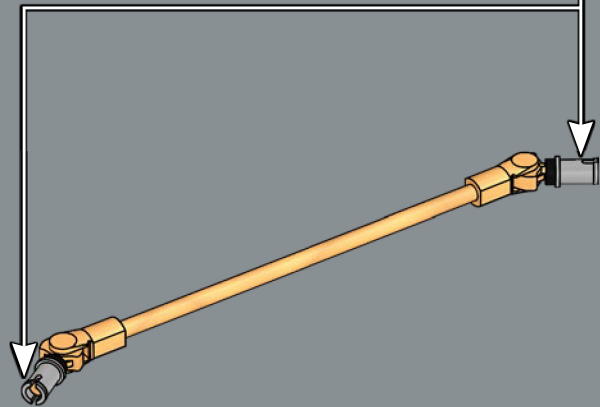
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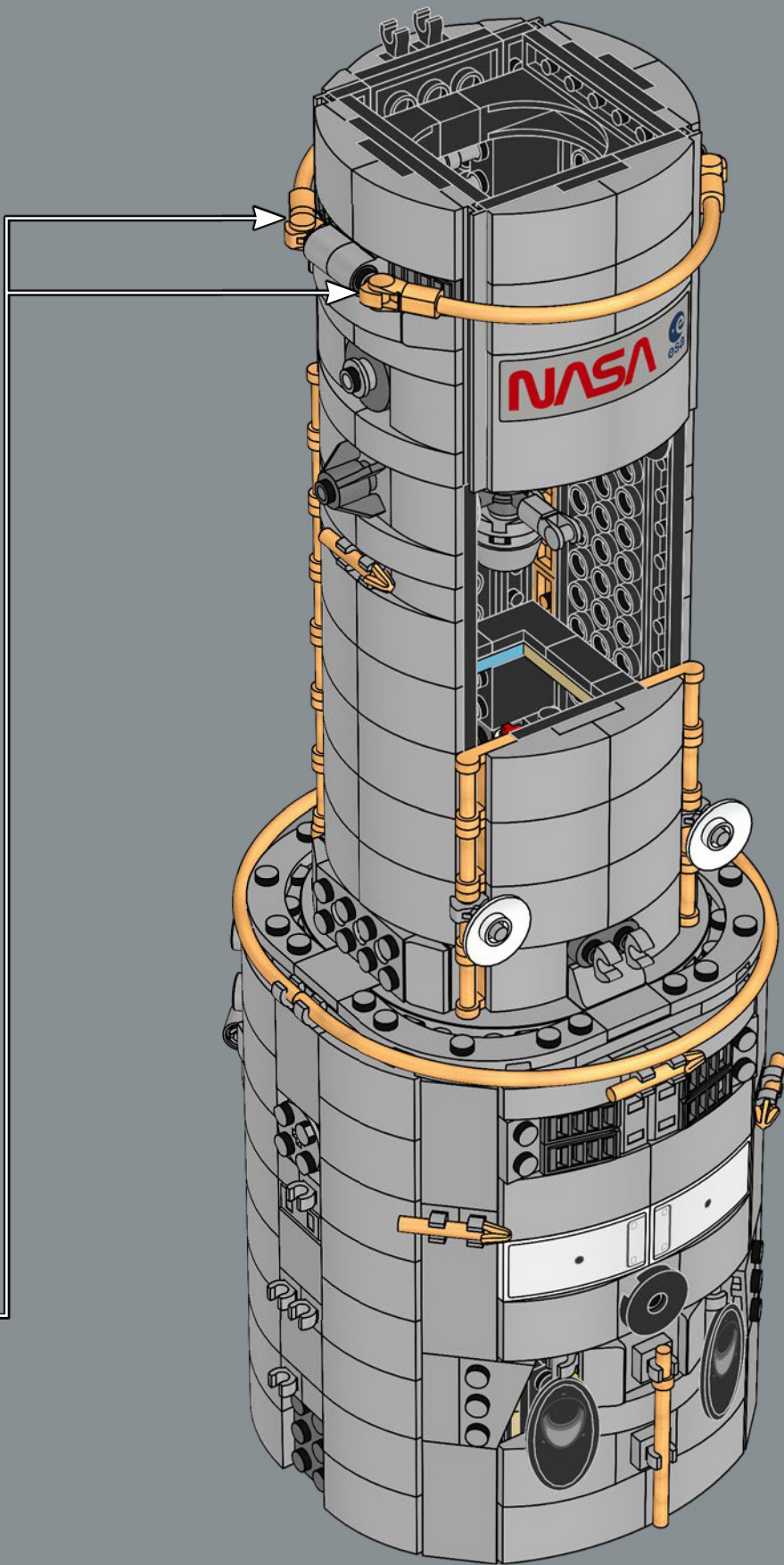


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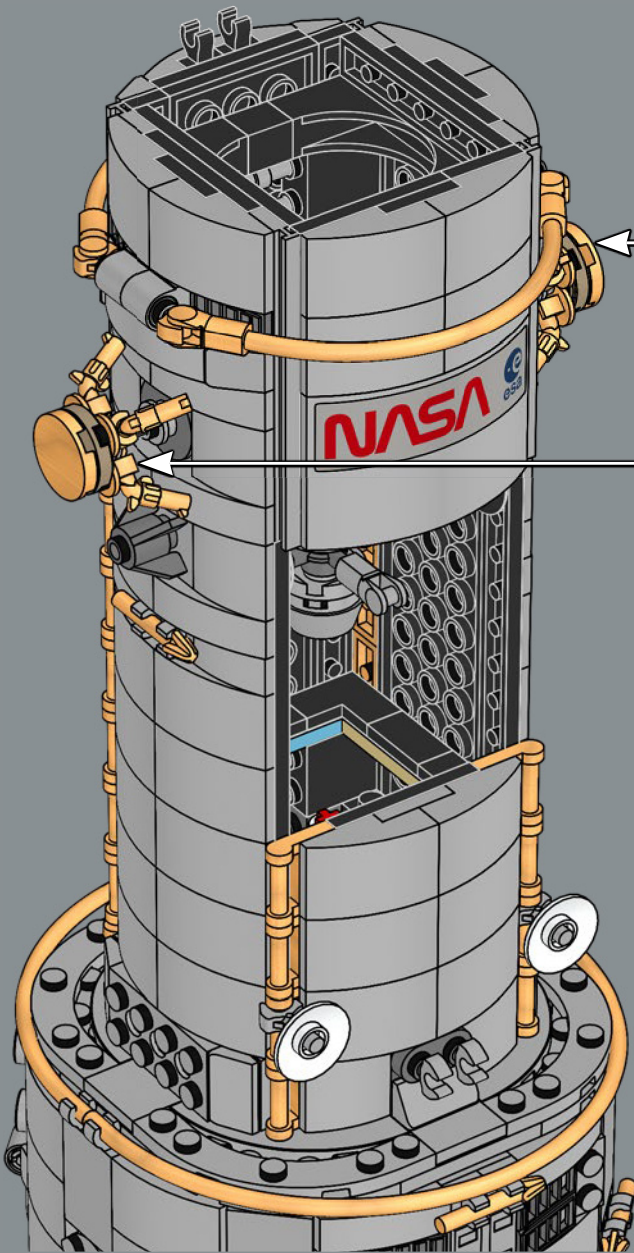
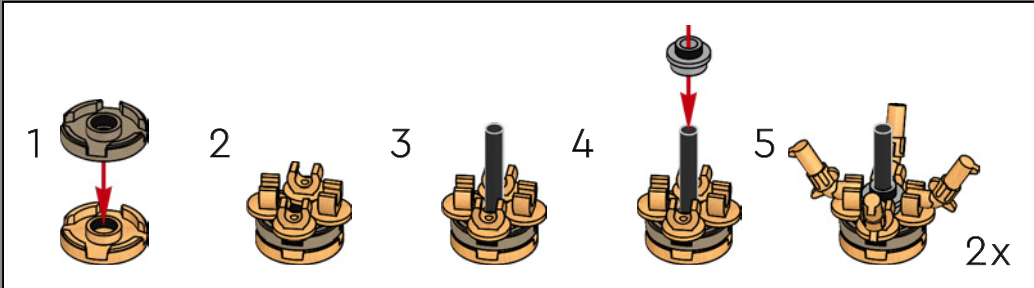
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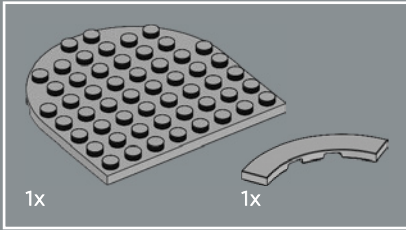
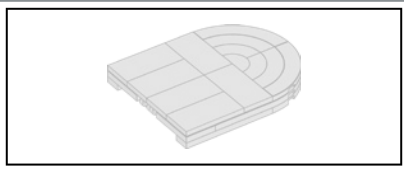




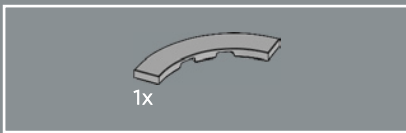
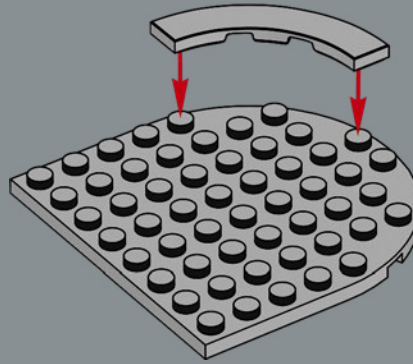


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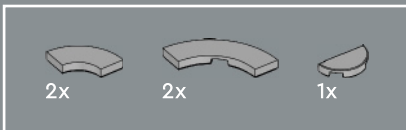
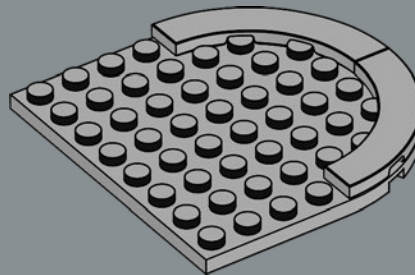




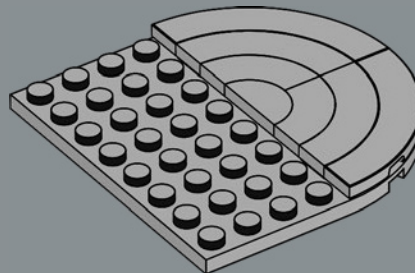
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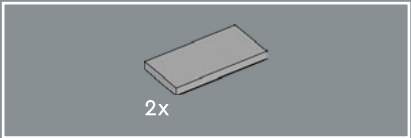


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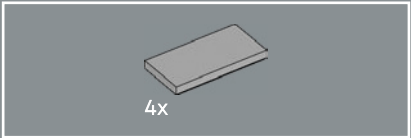
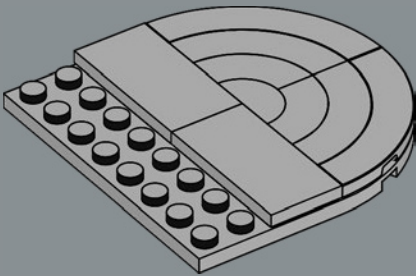


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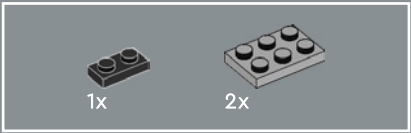
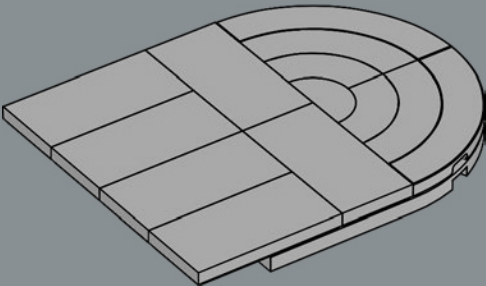




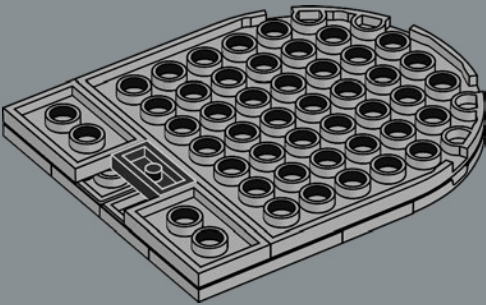
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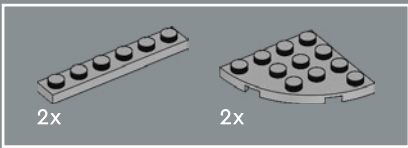


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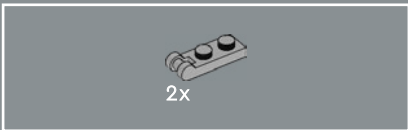
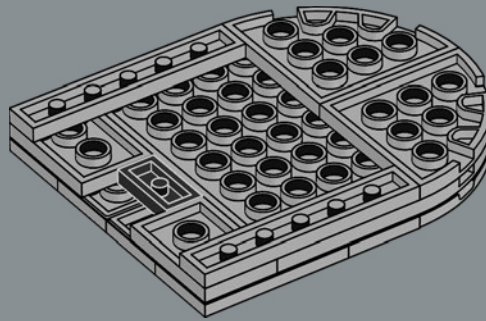


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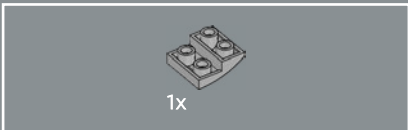
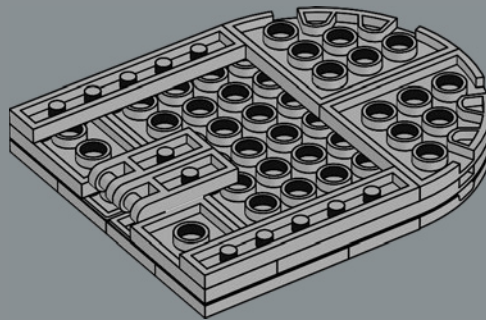




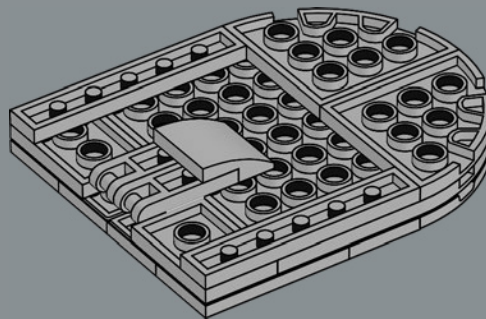
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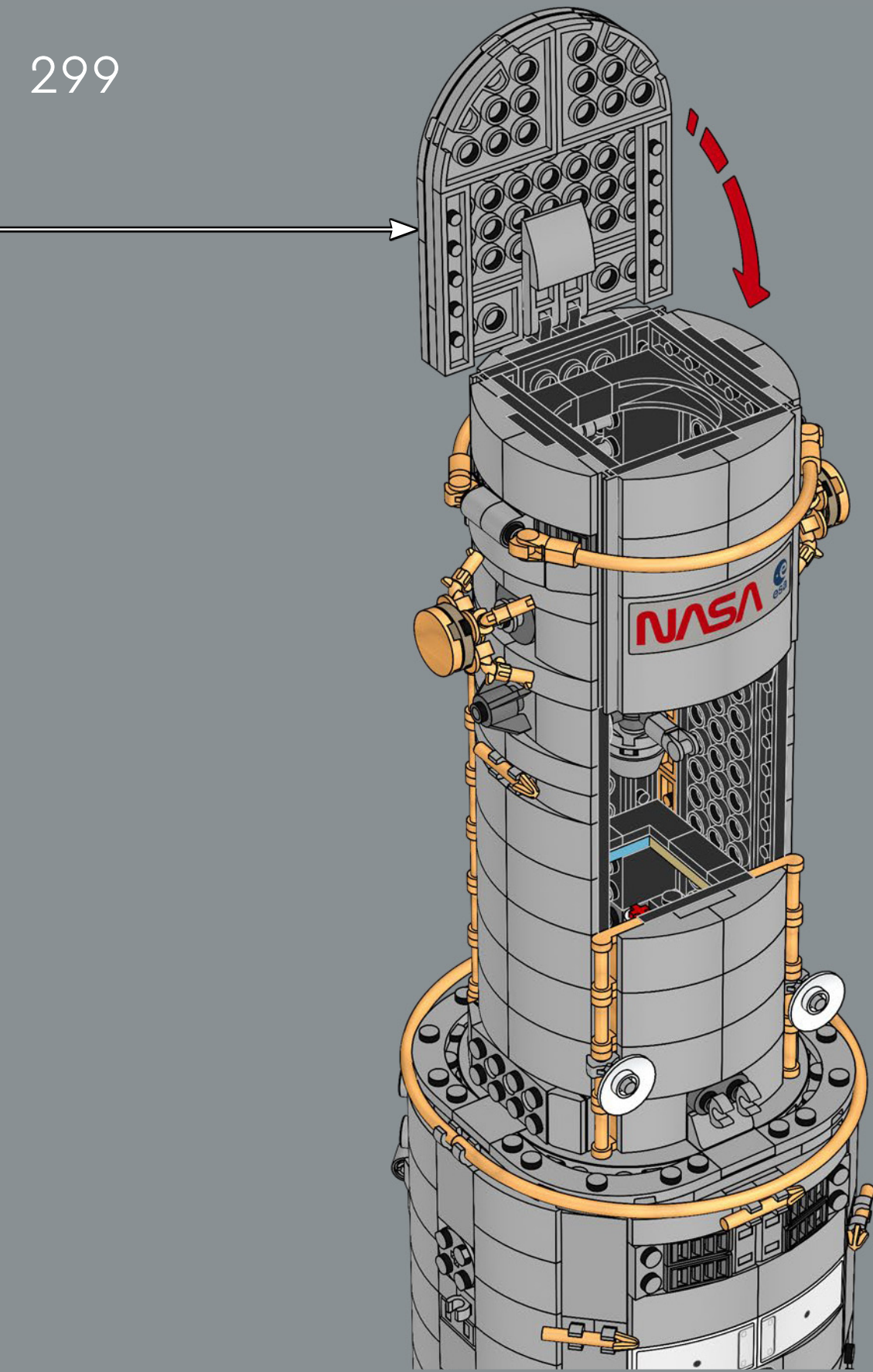


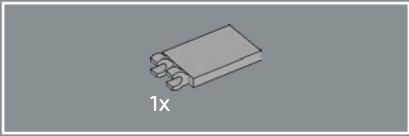
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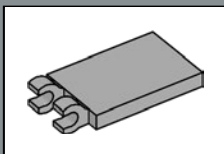
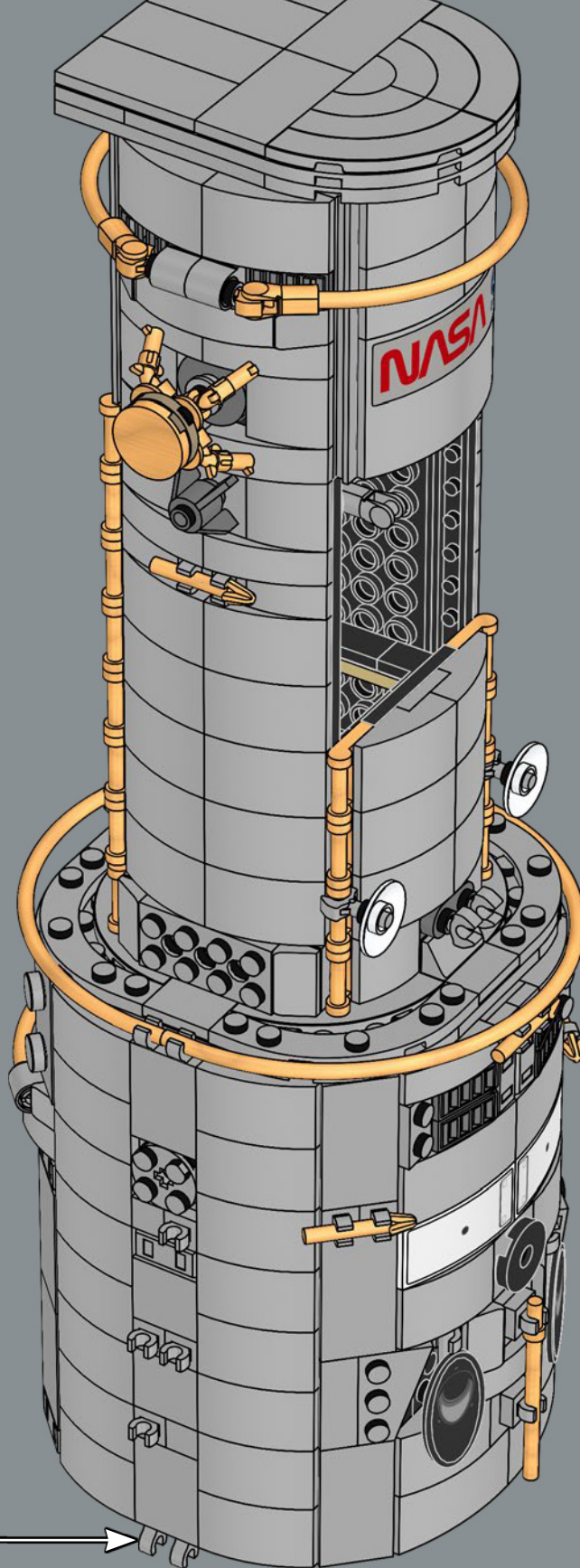
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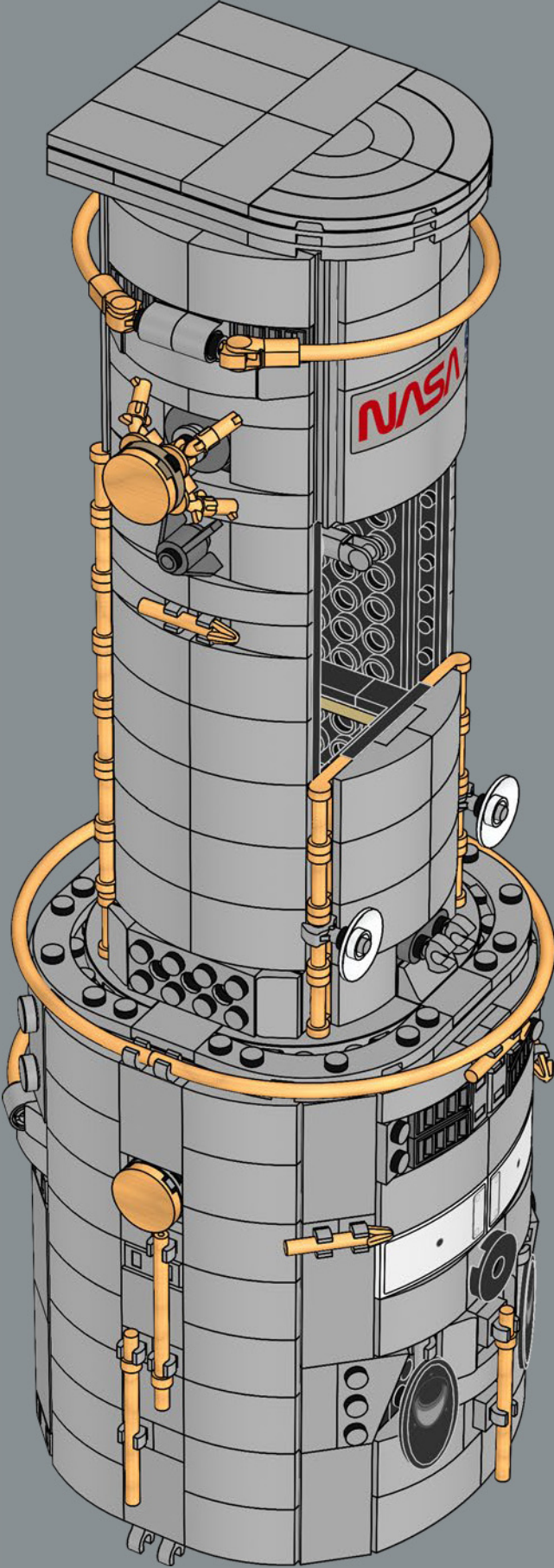


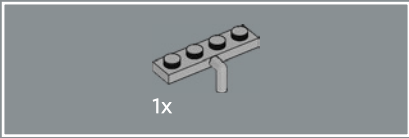
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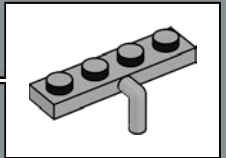
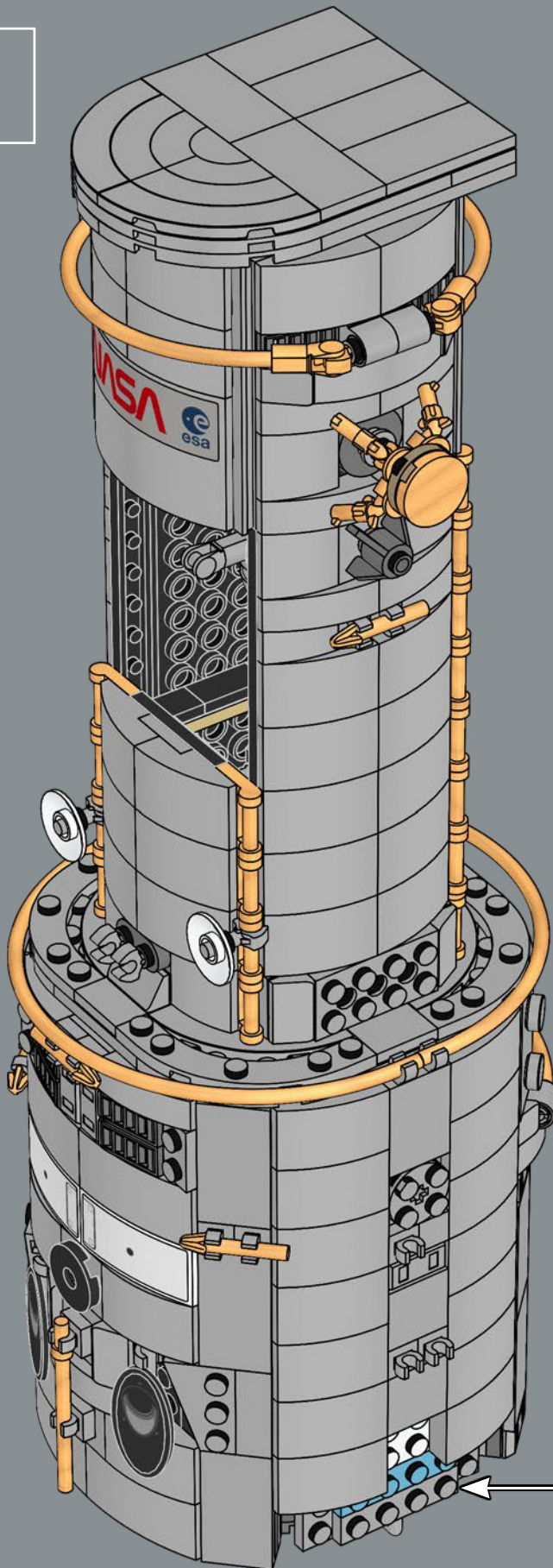


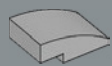
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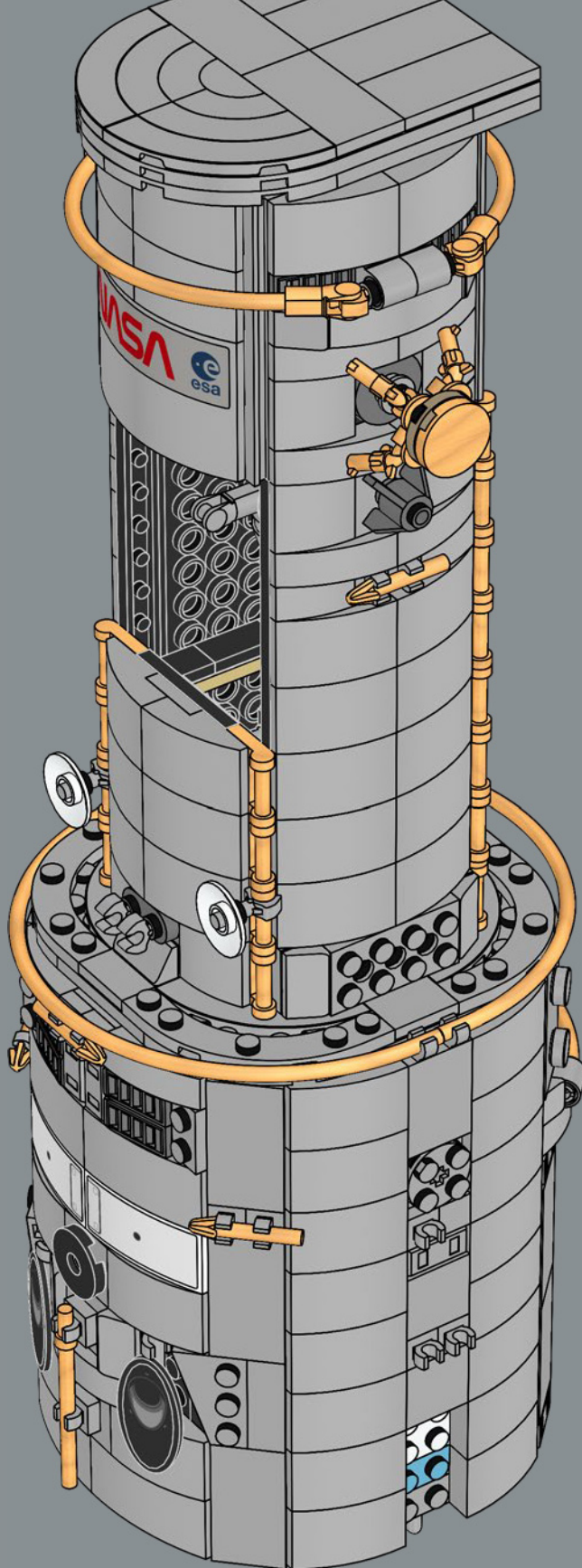
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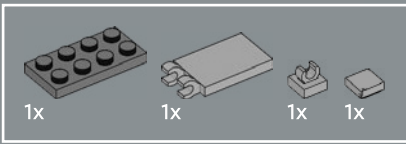




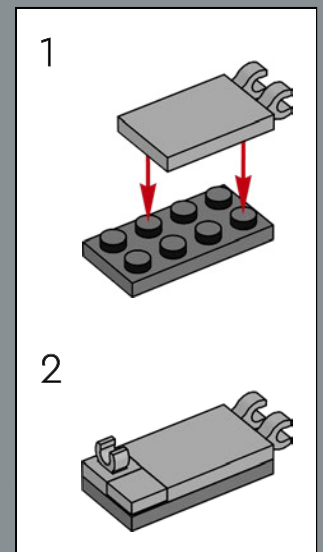
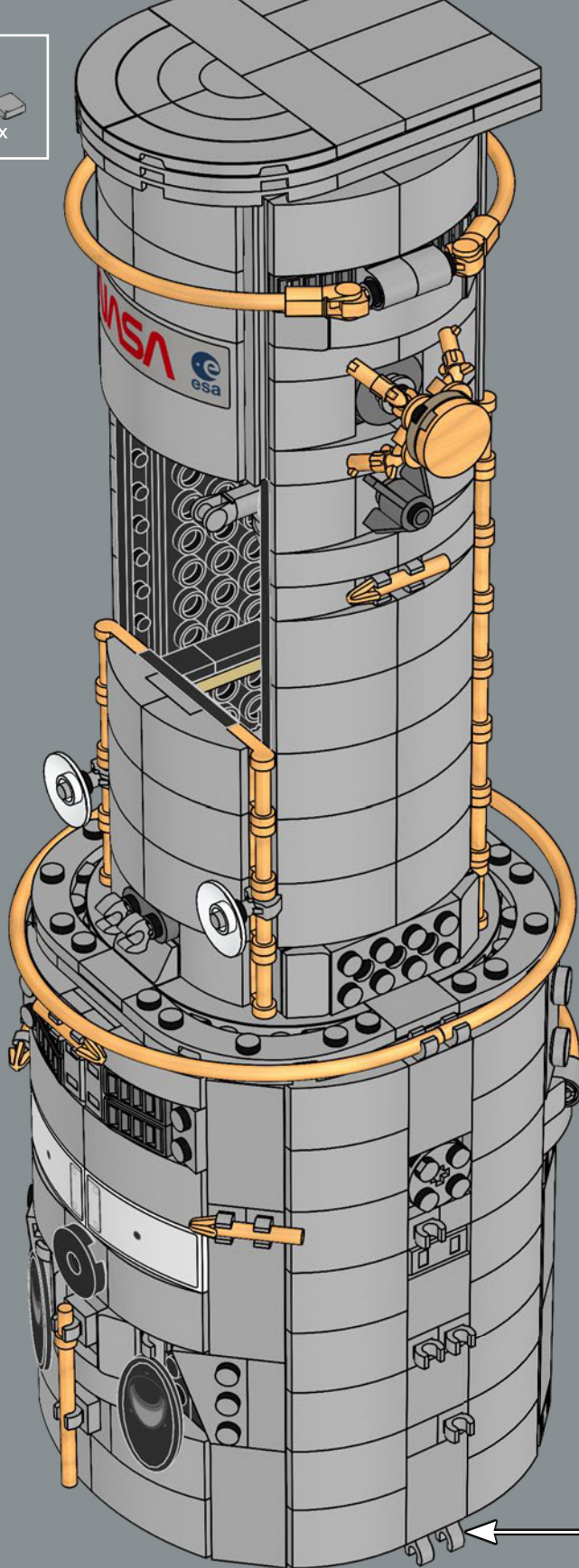
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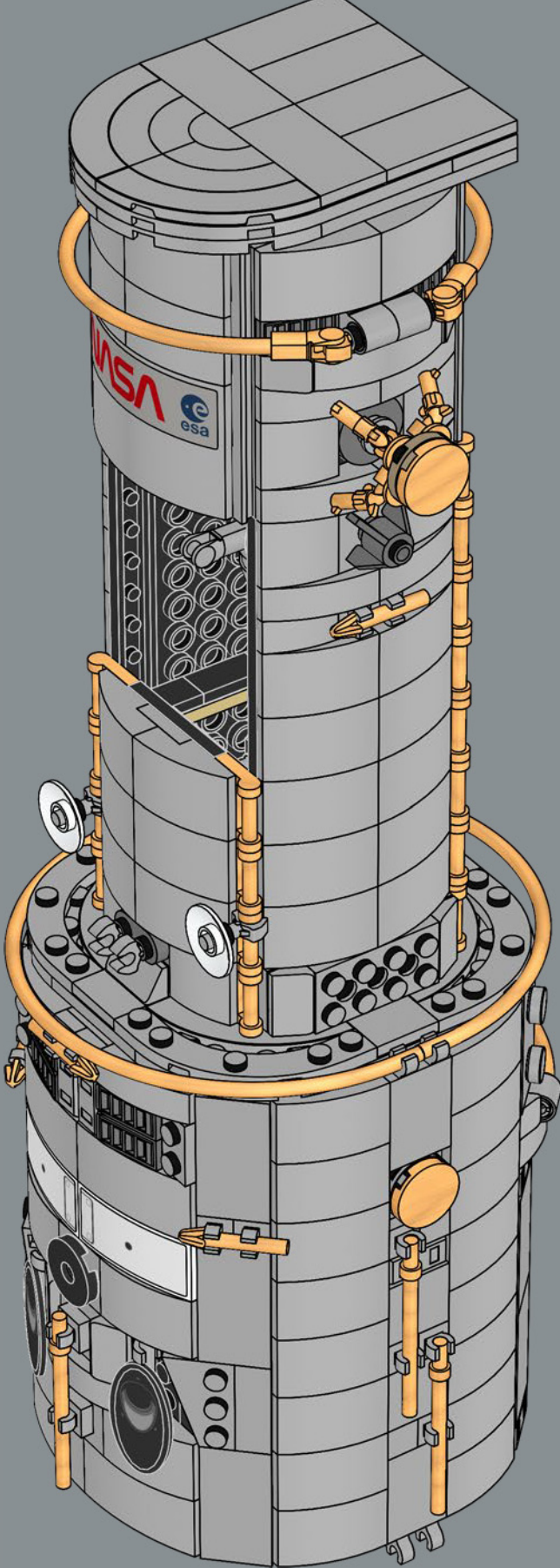


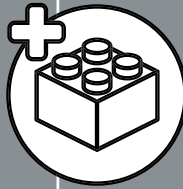
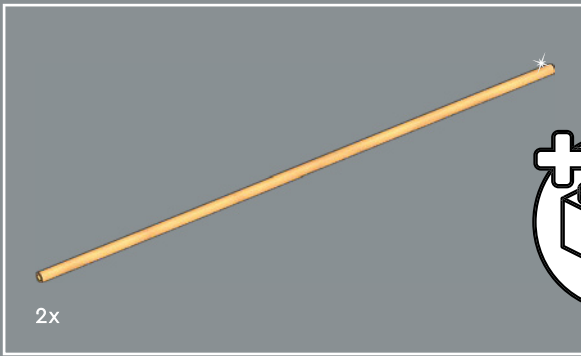
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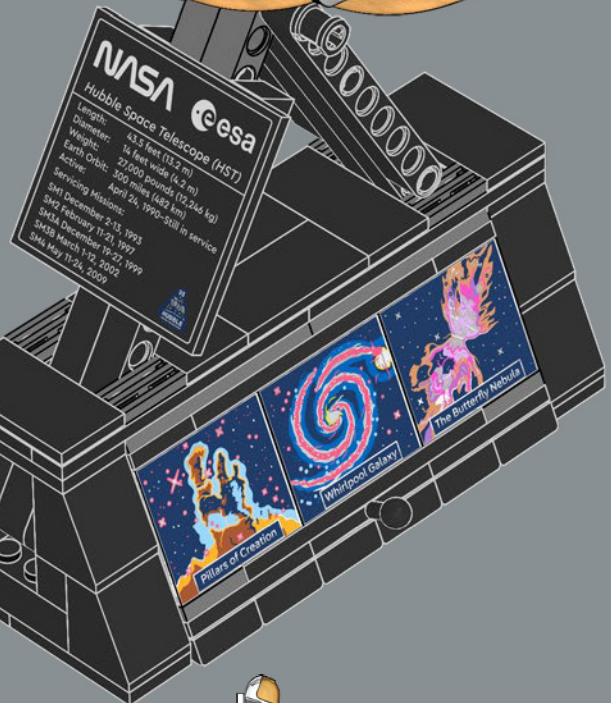
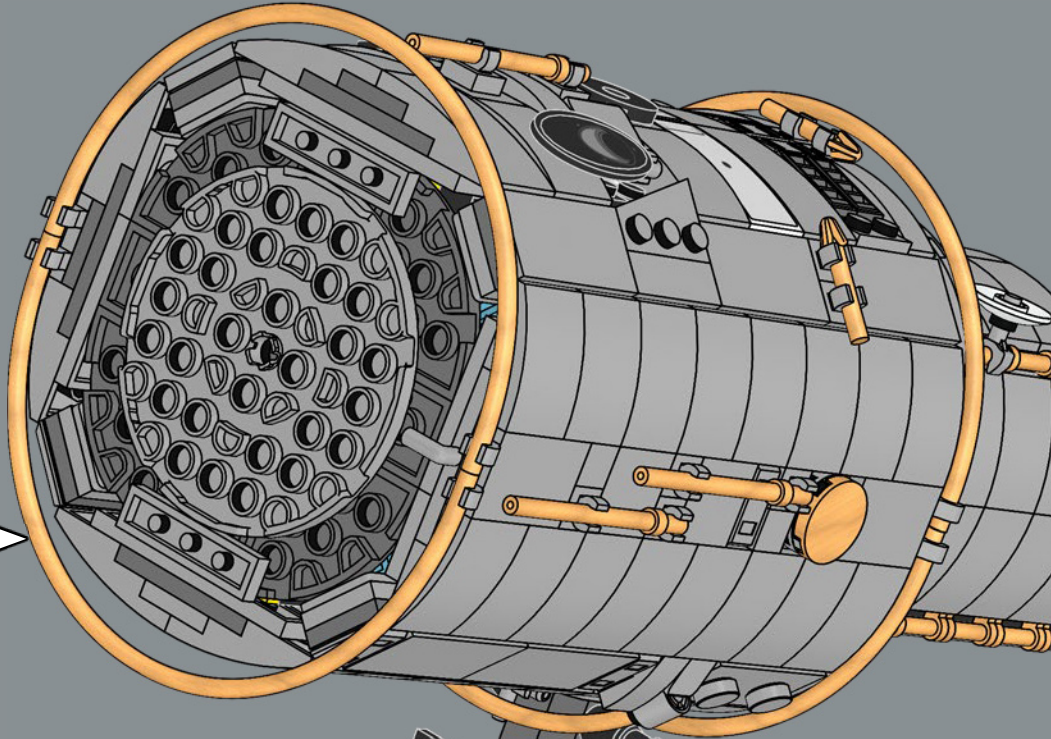


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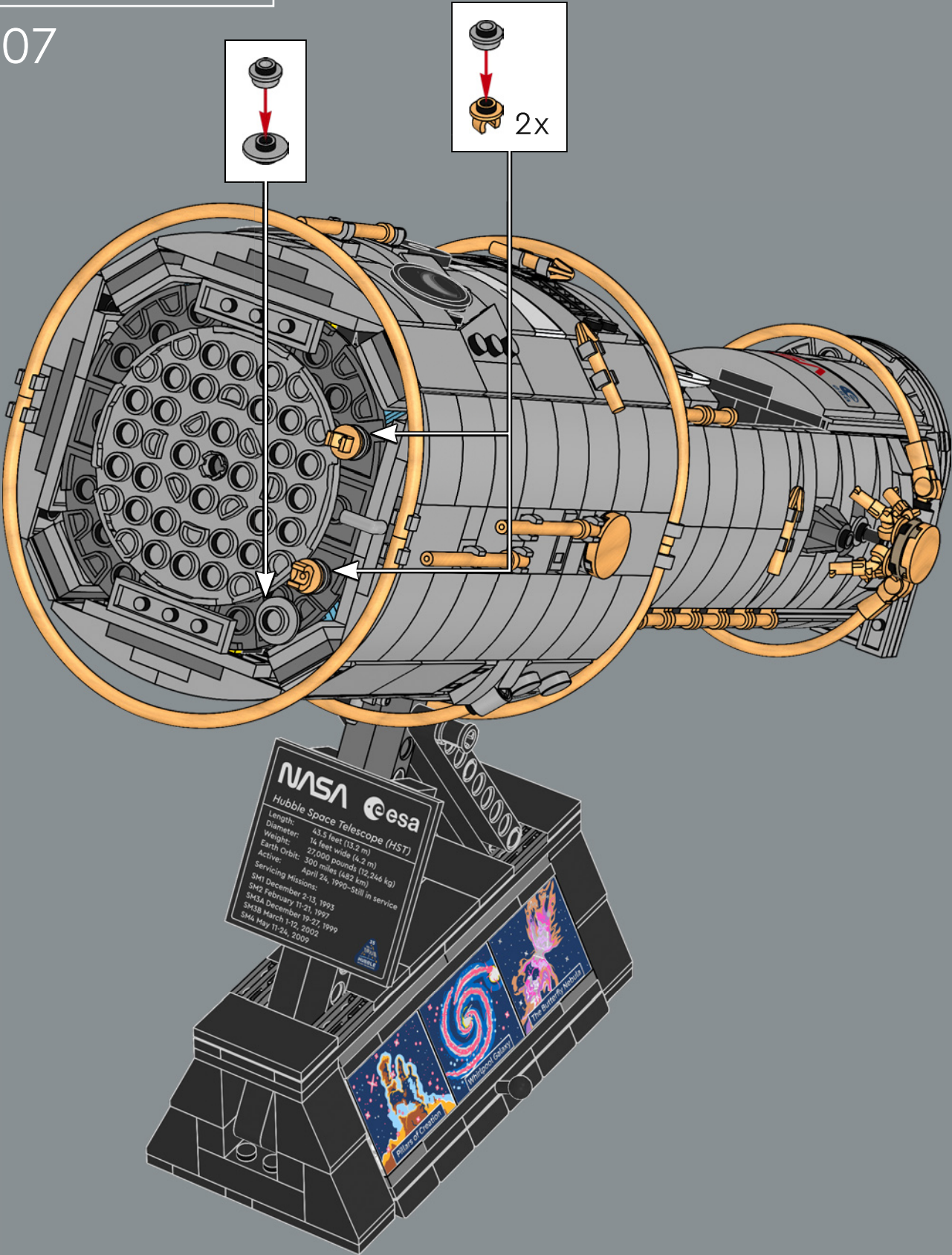


3x

2x

1x

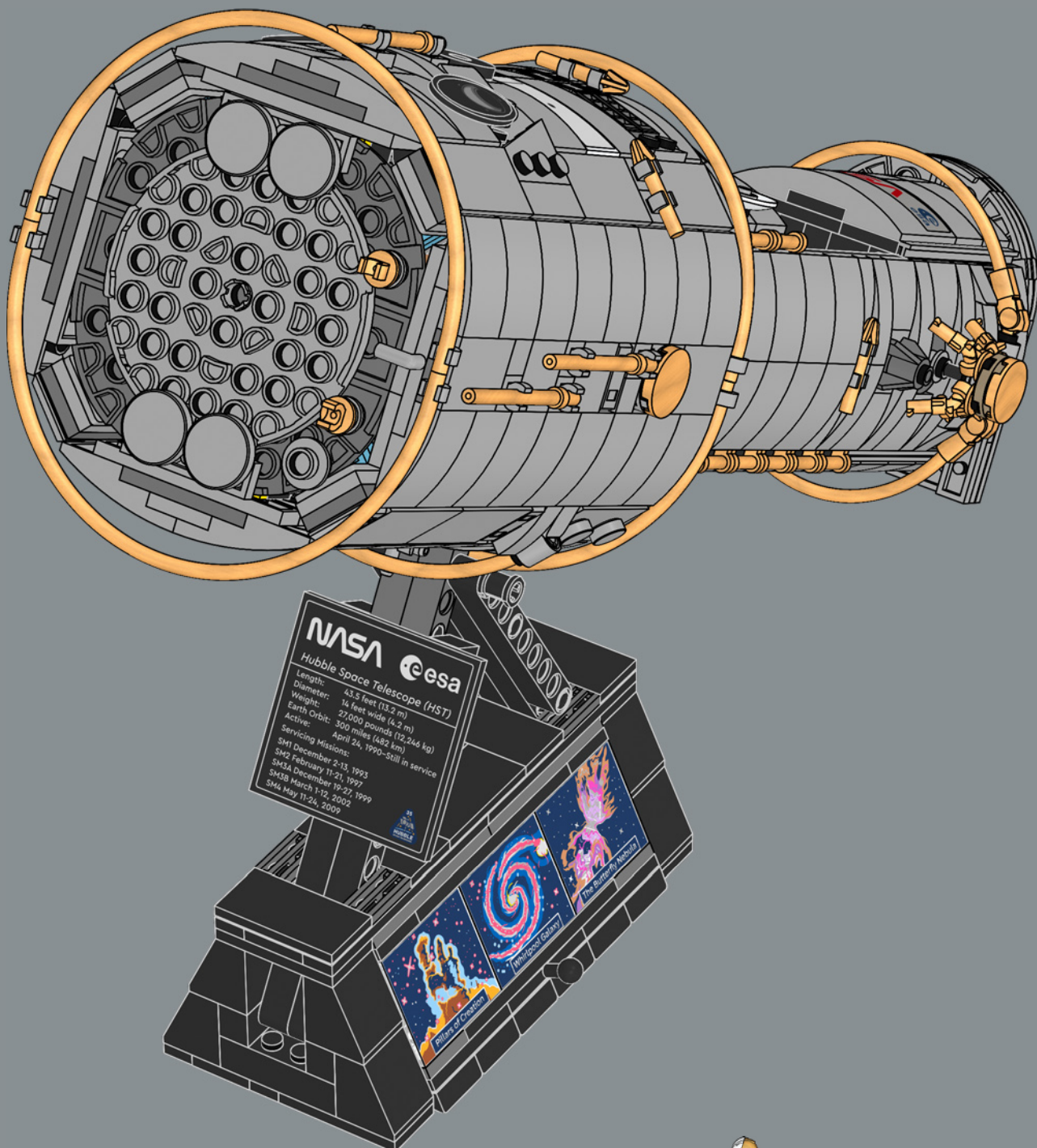
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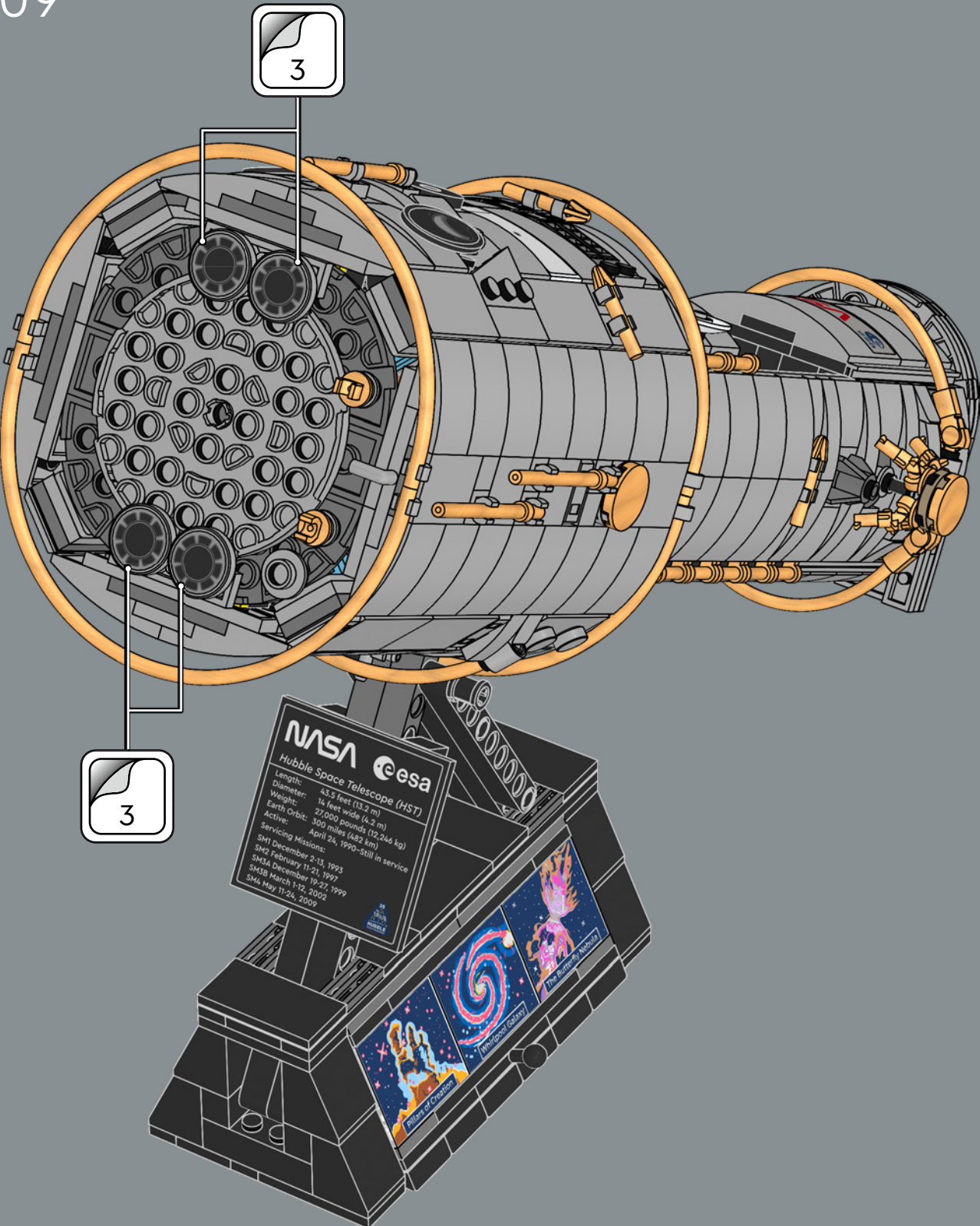


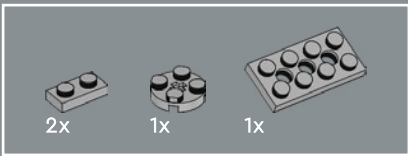


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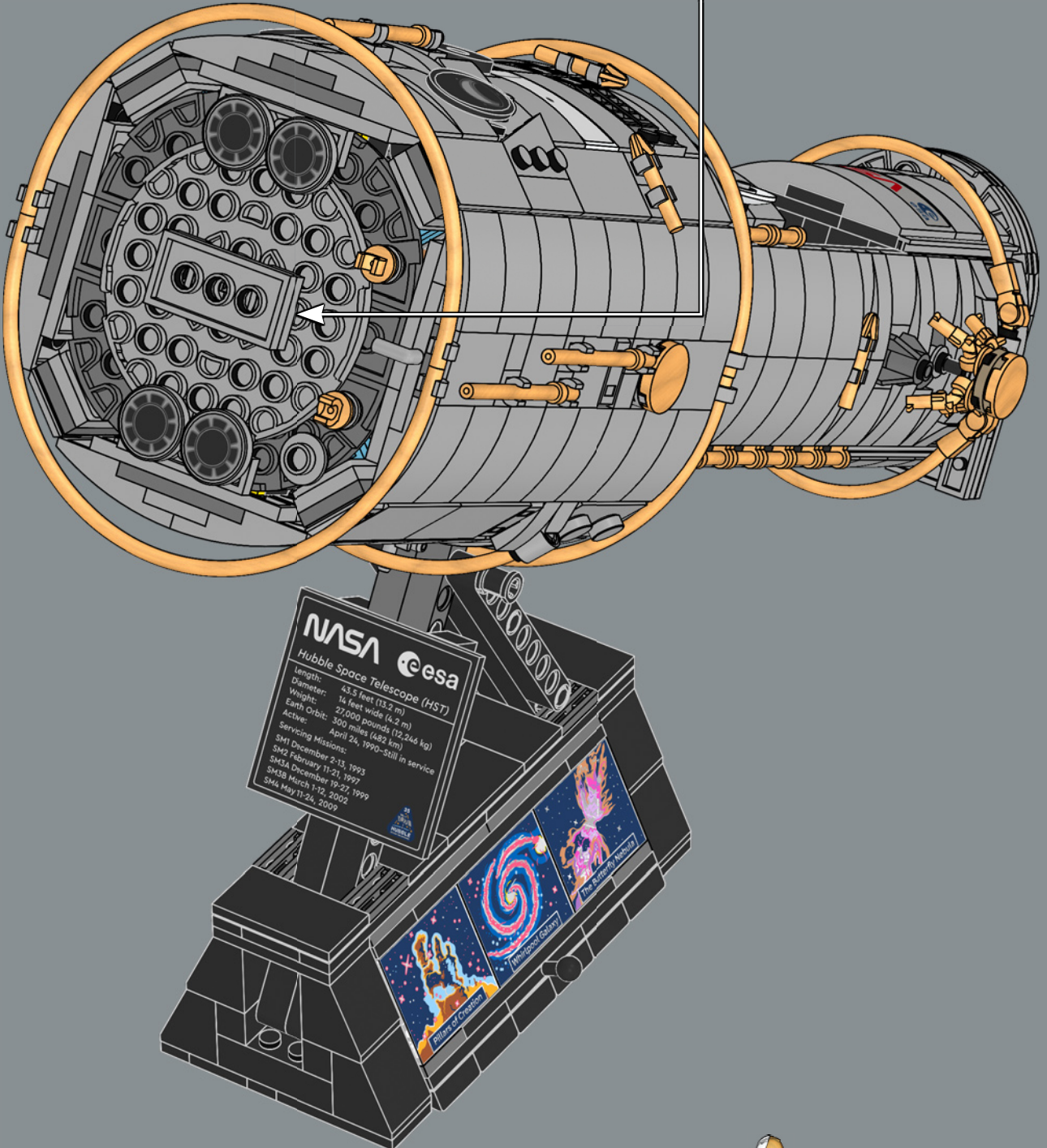
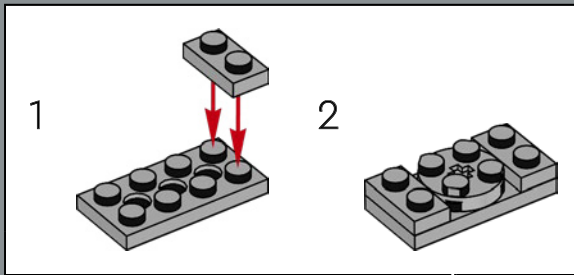
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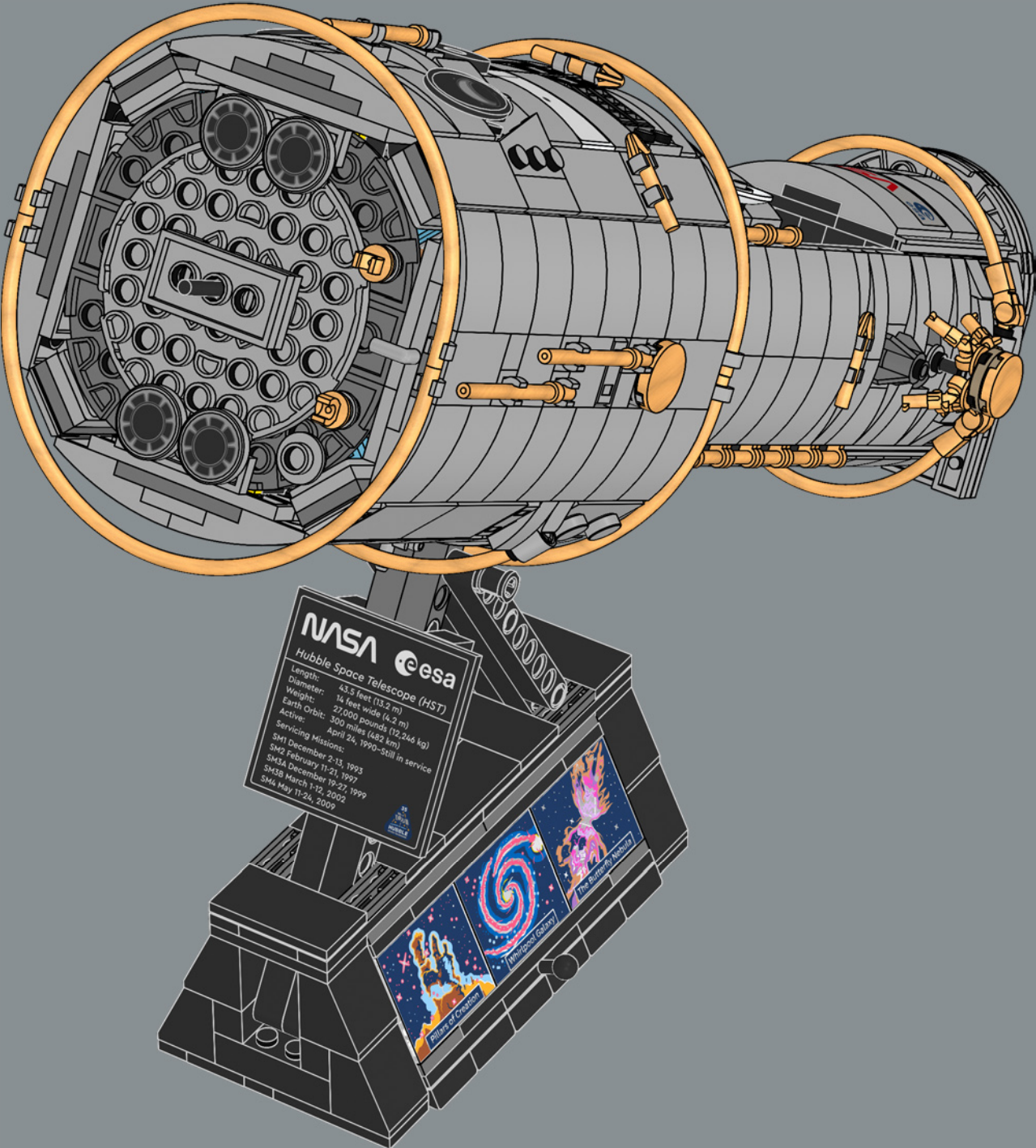


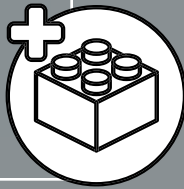
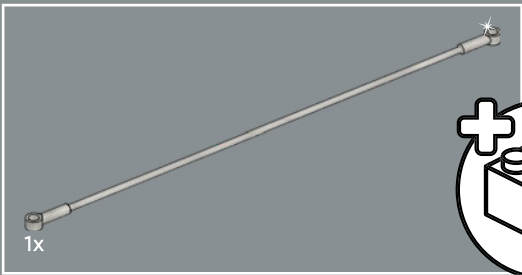
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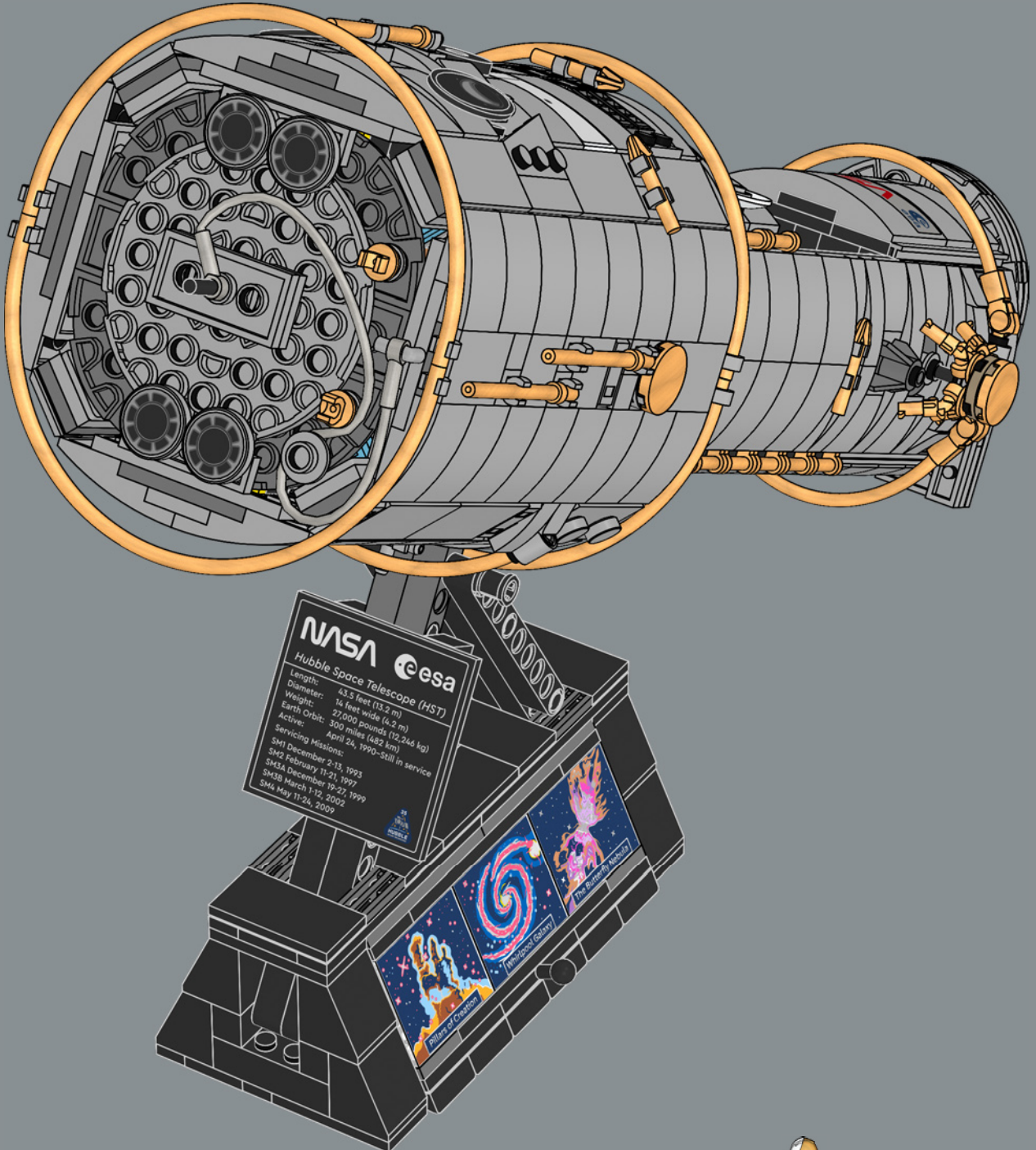


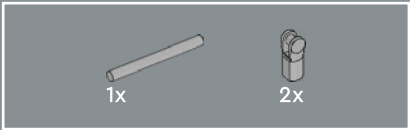
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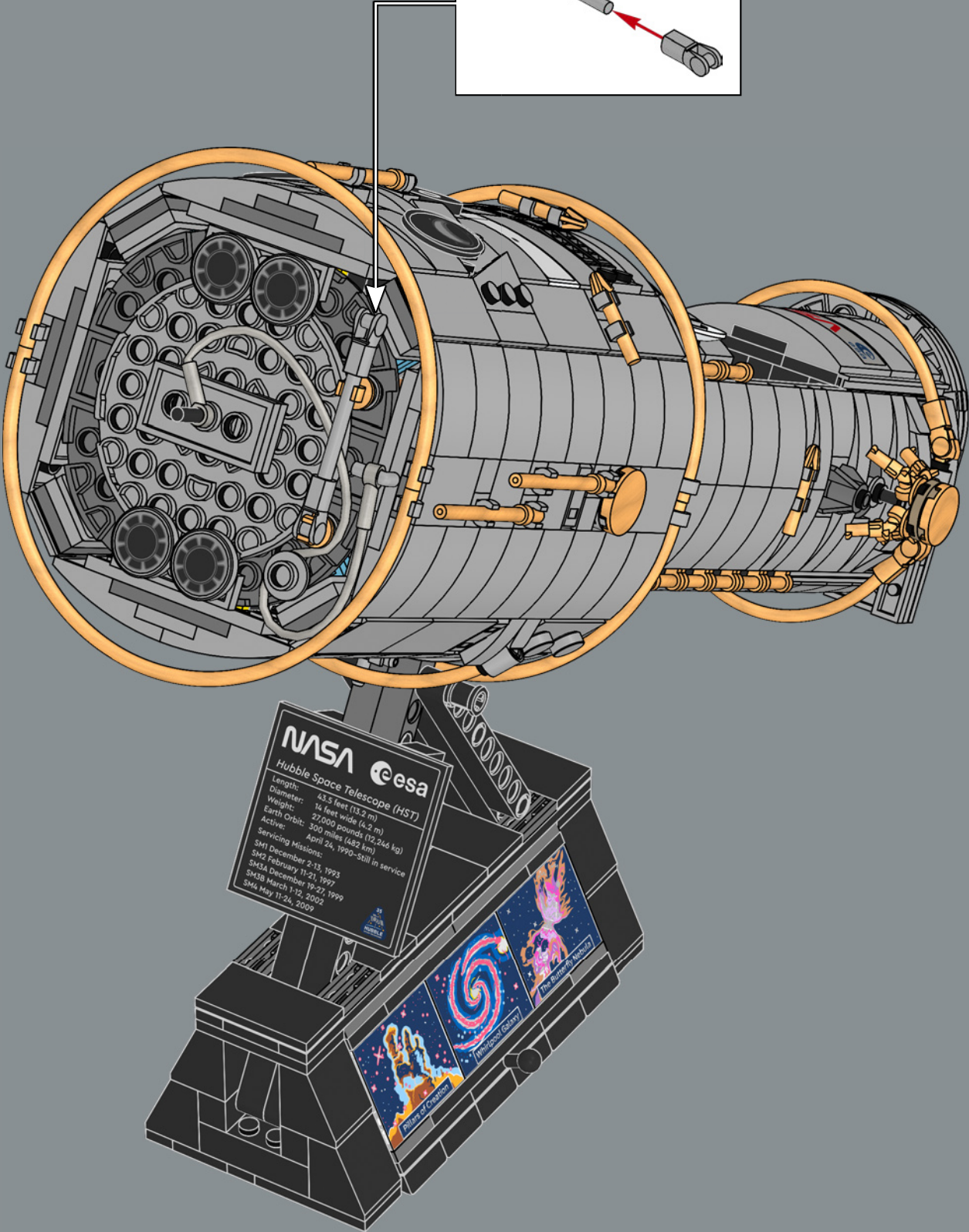
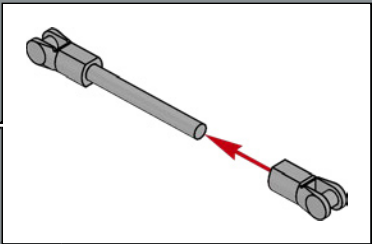


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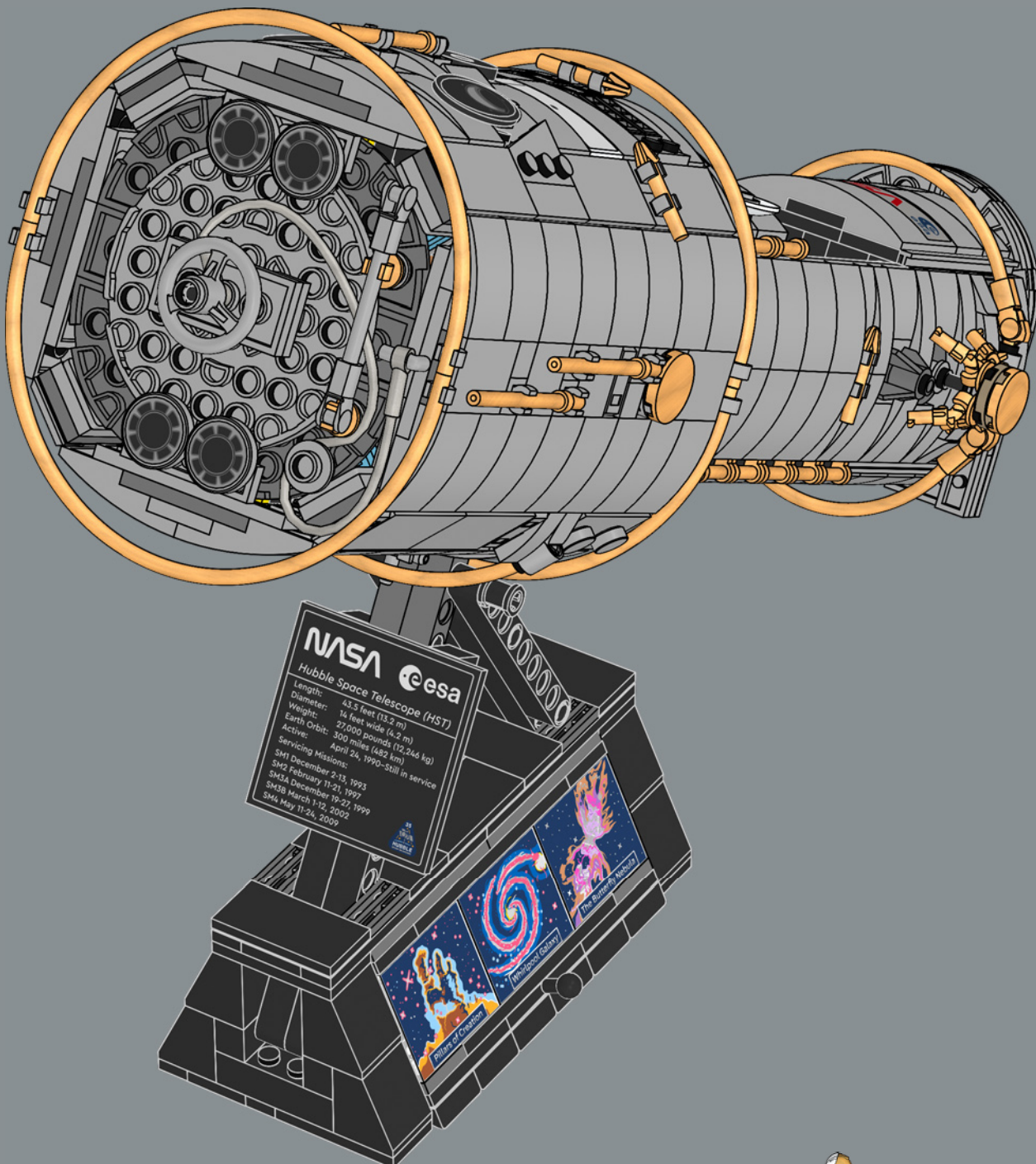
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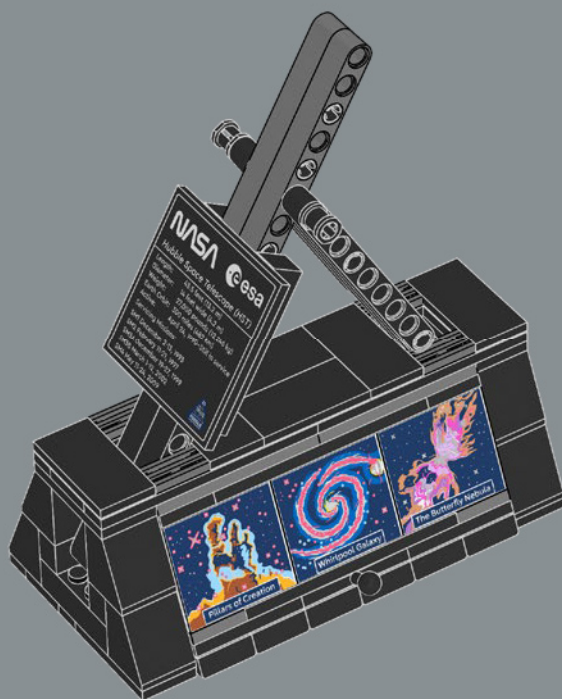


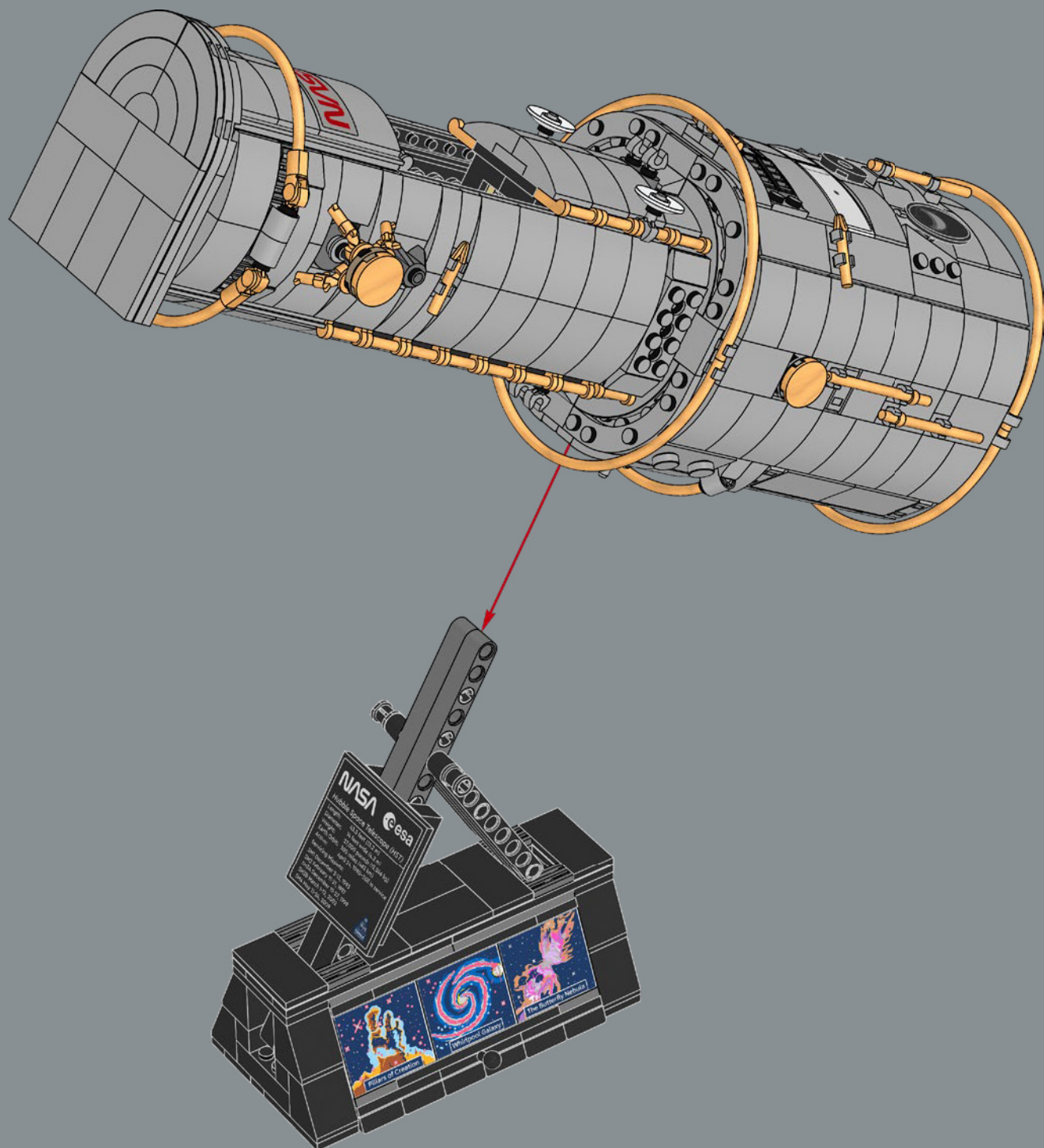


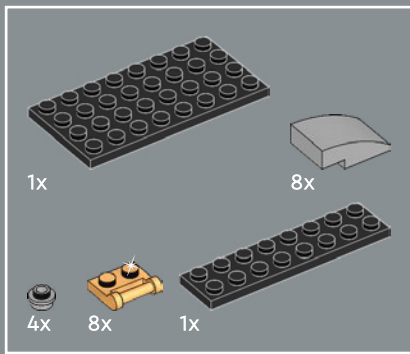
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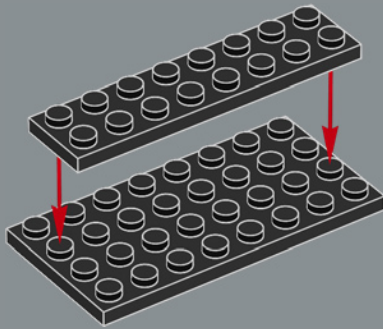




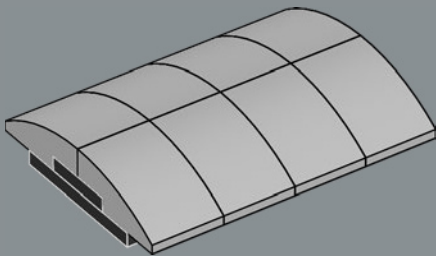


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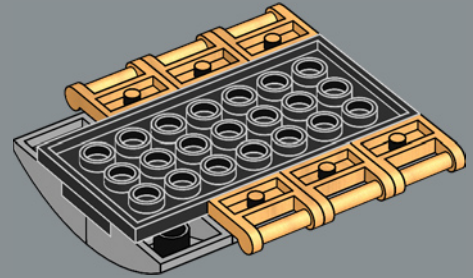
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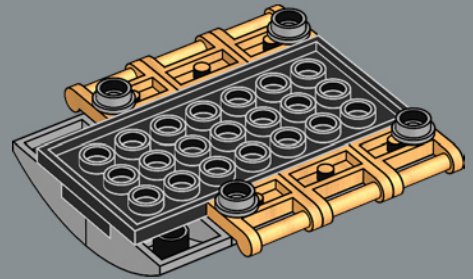
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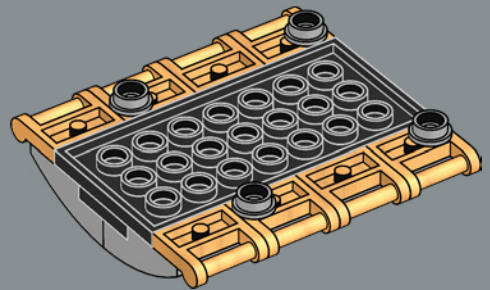
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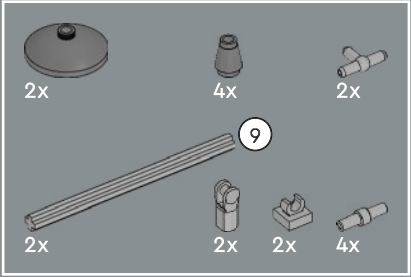
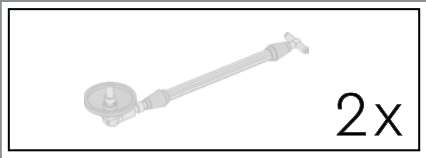


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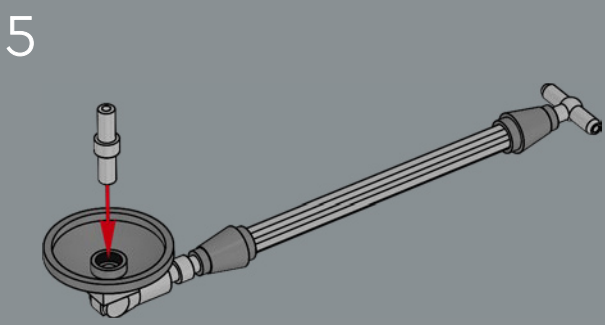
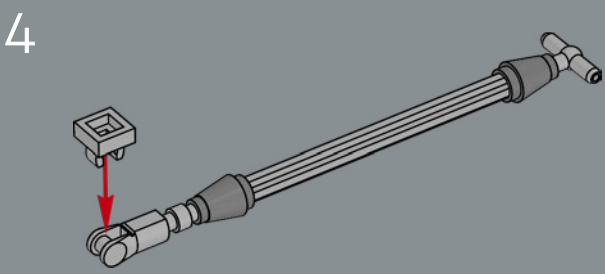
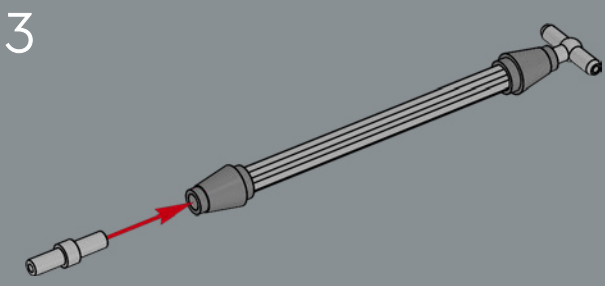
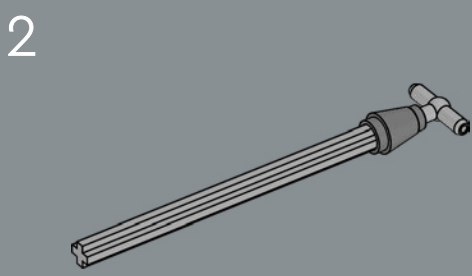
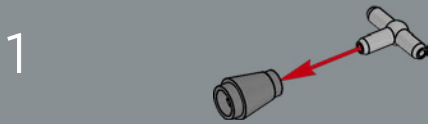


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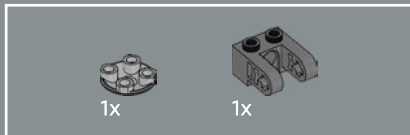
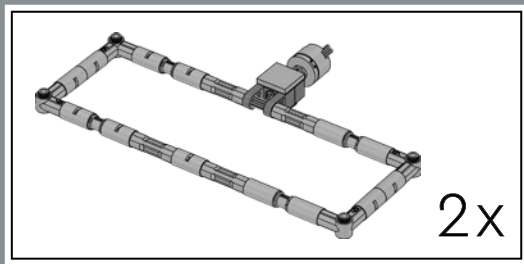
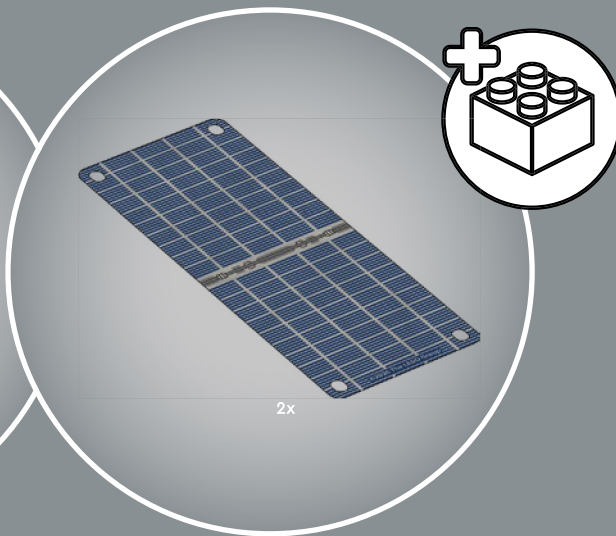


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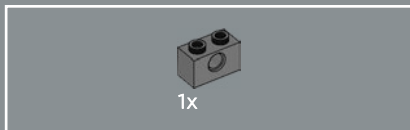
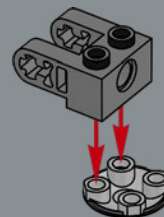


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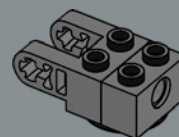


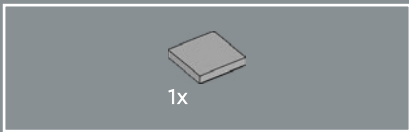


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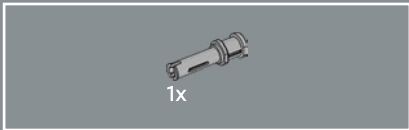
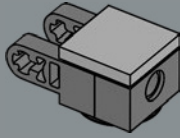


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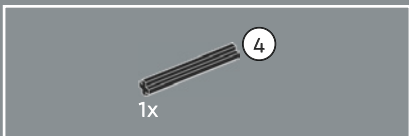
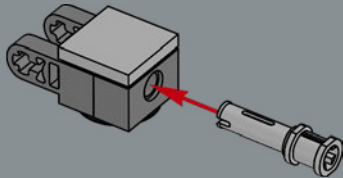




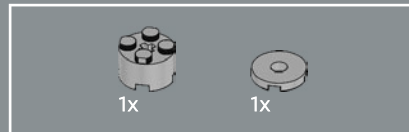
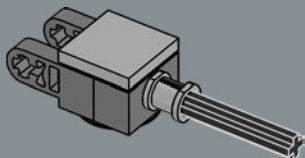
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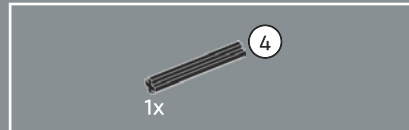
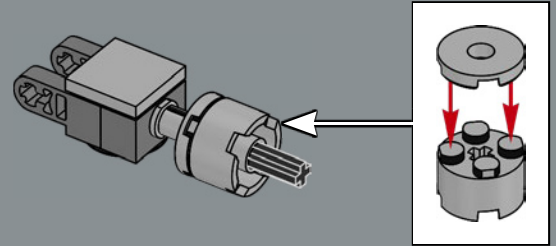
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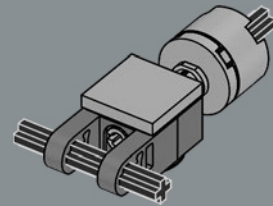
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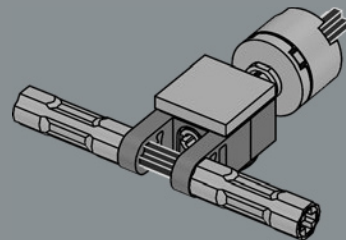
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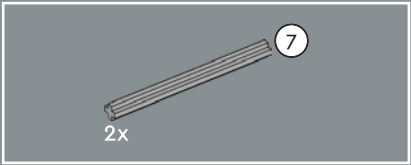


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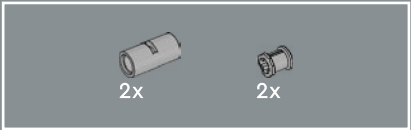
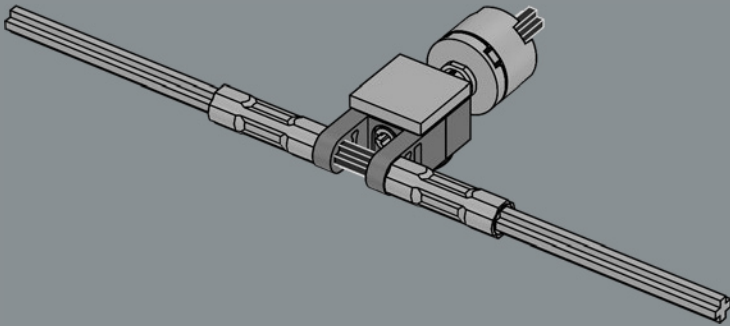


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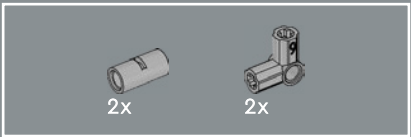
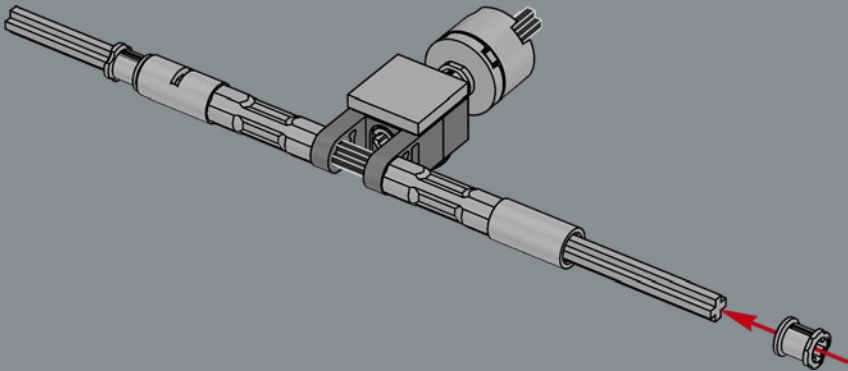




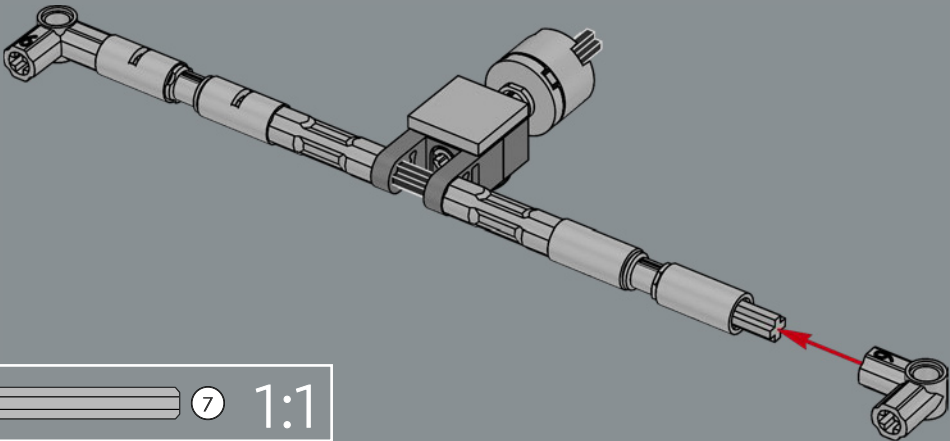
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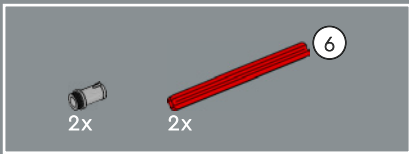


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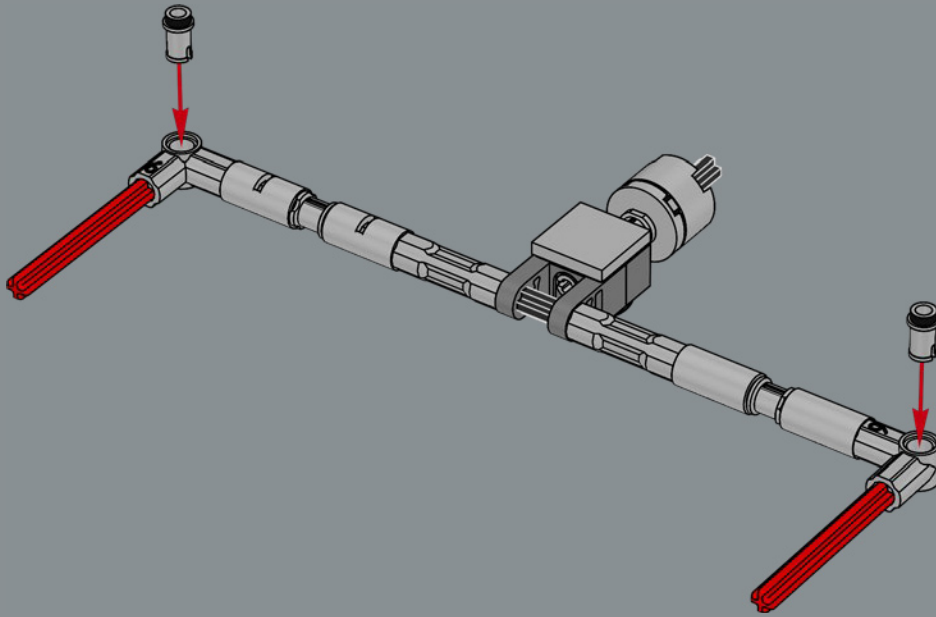


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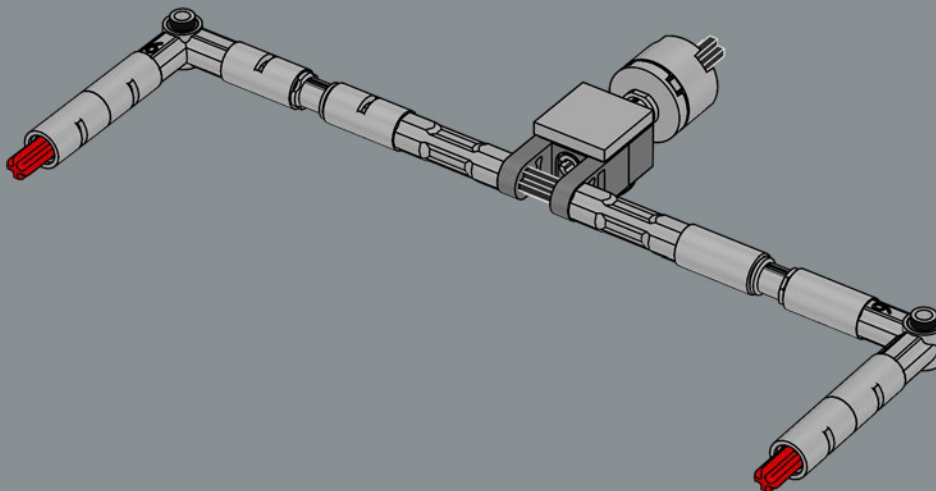


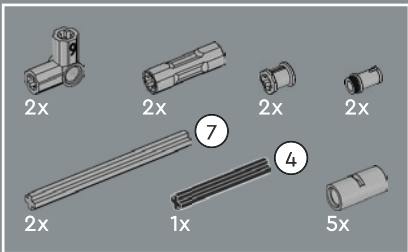
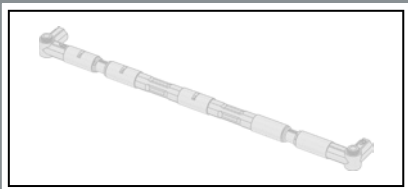


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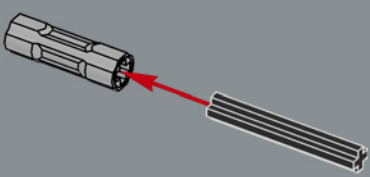
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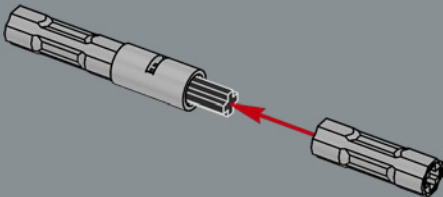


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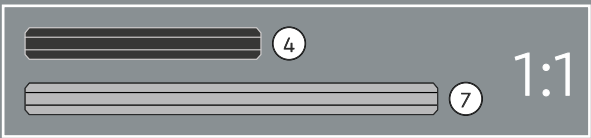
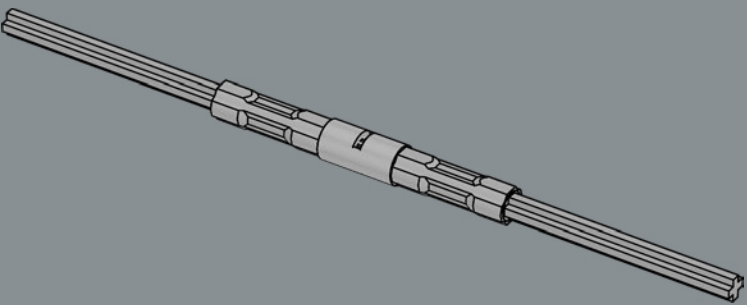
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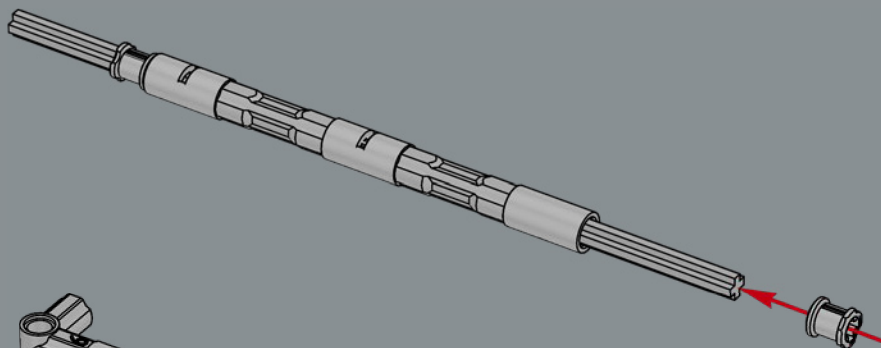
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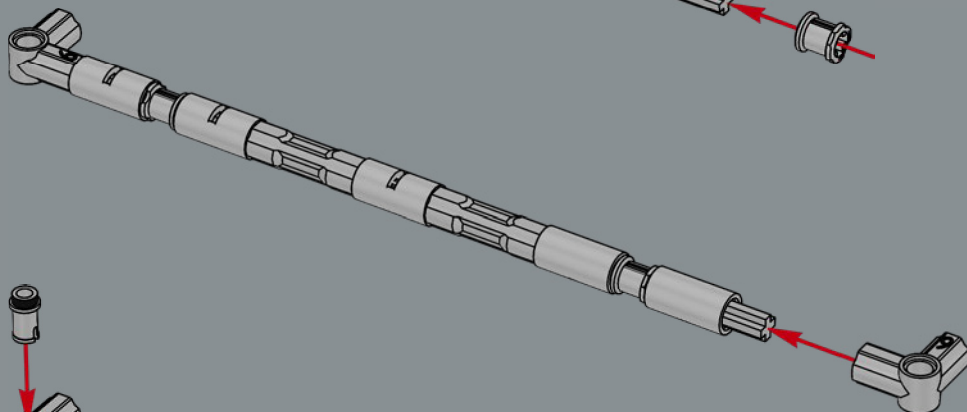
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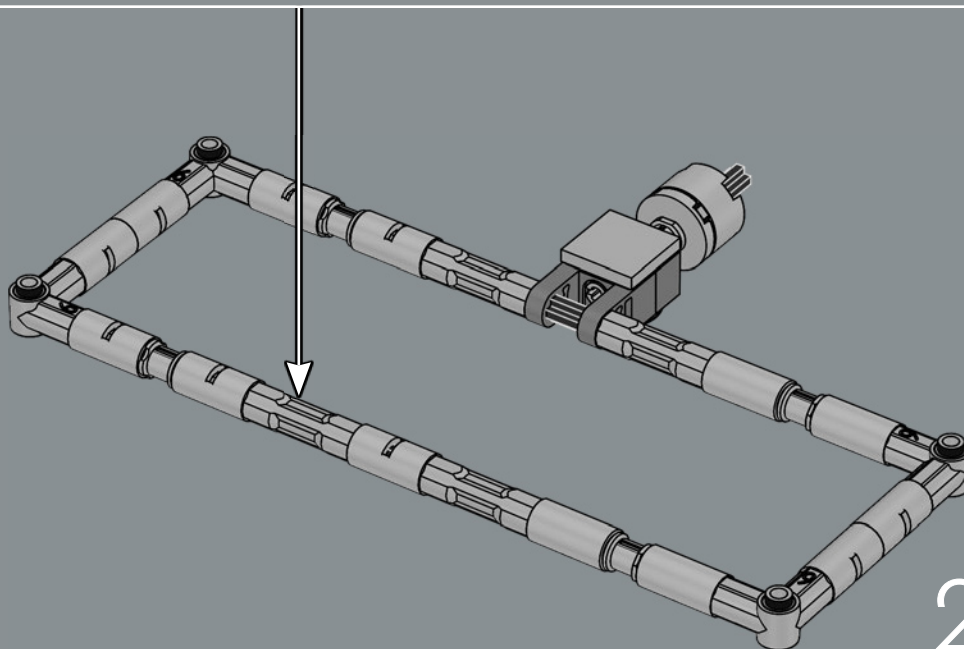
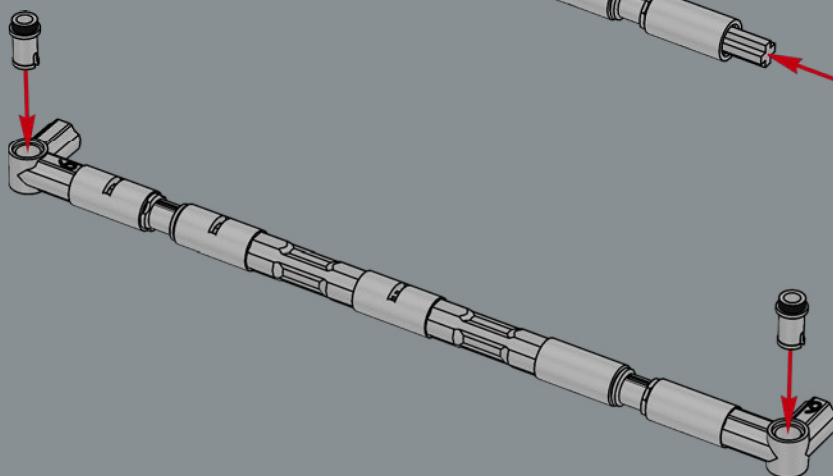
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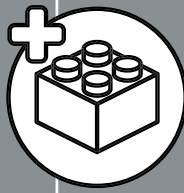
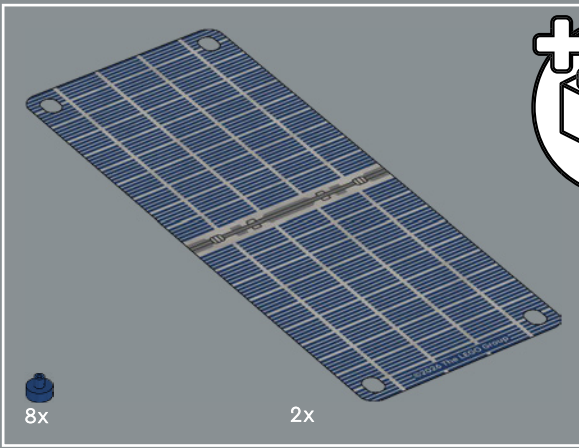


6



2x

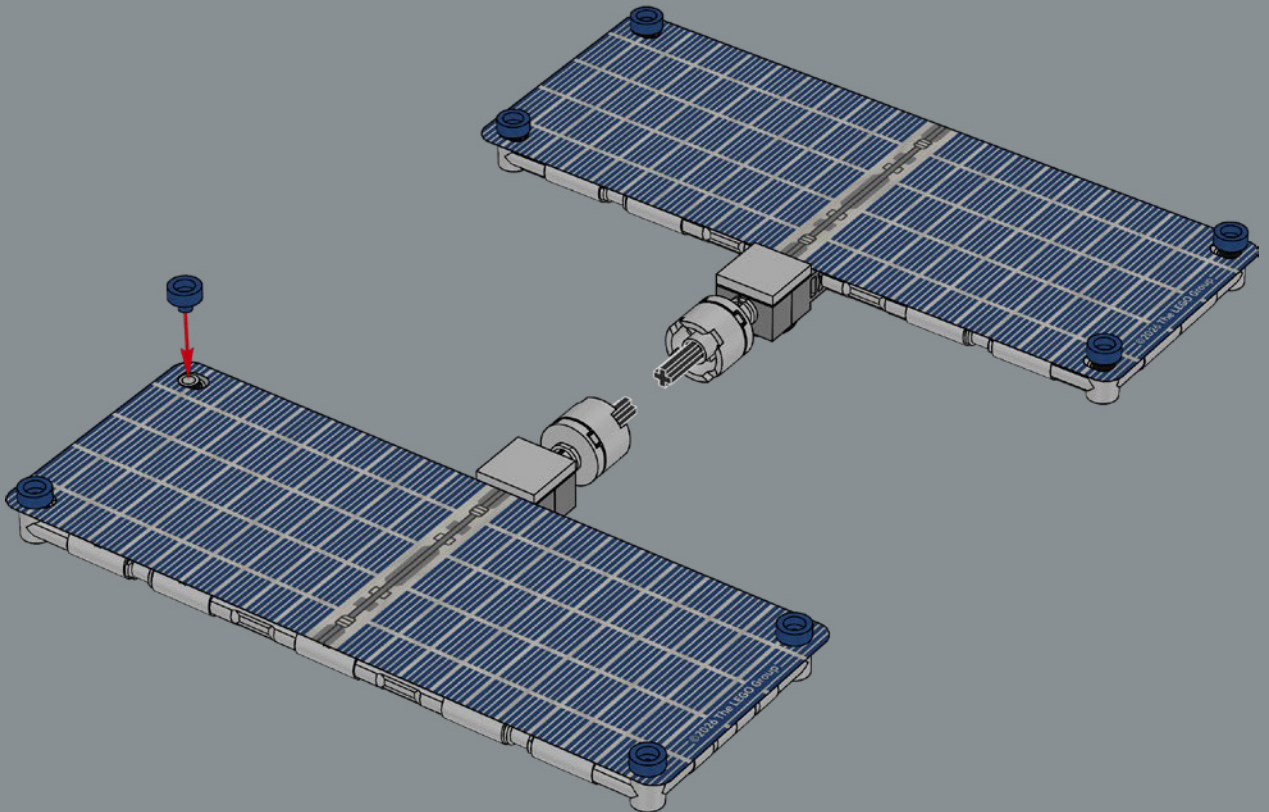


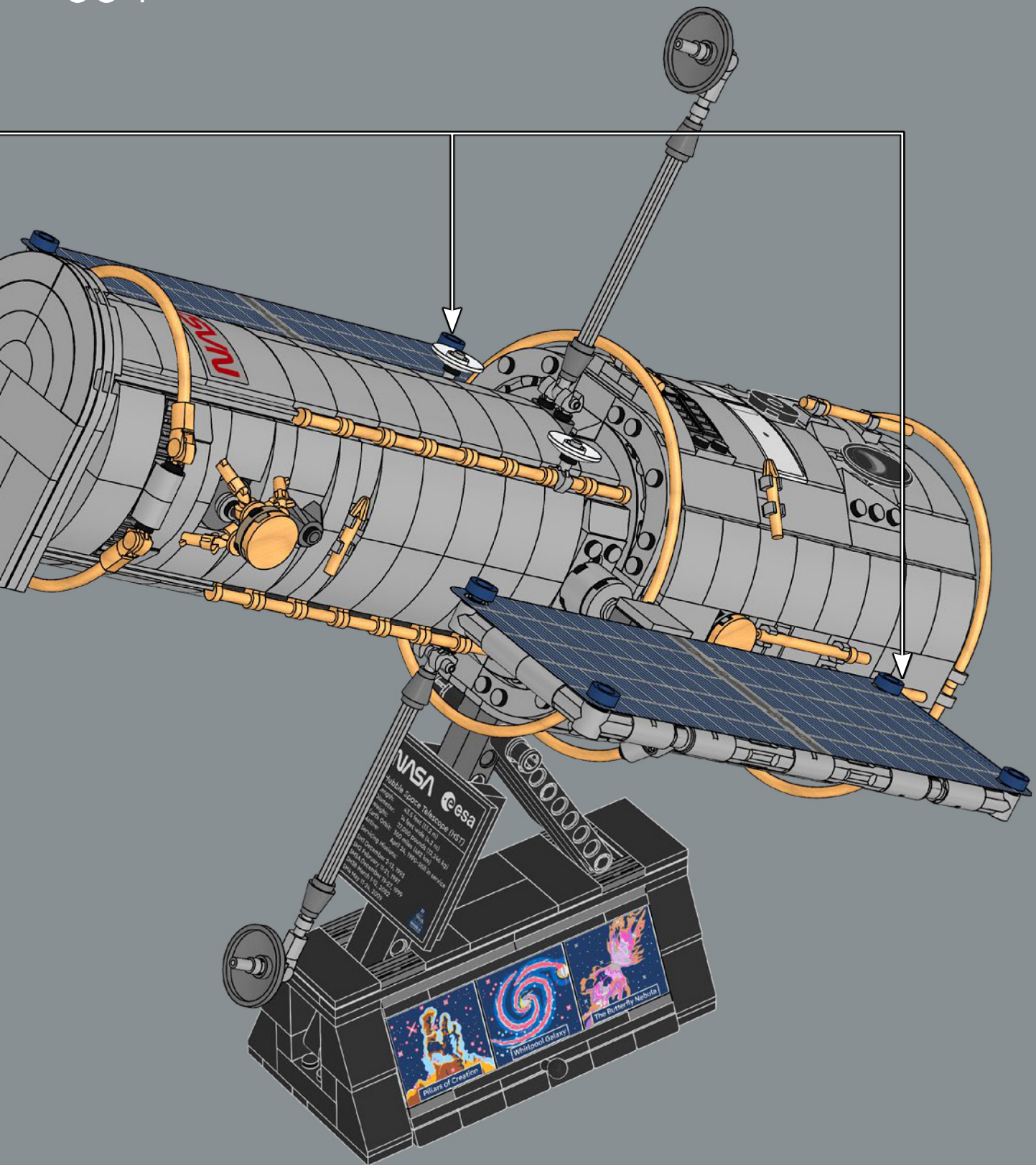


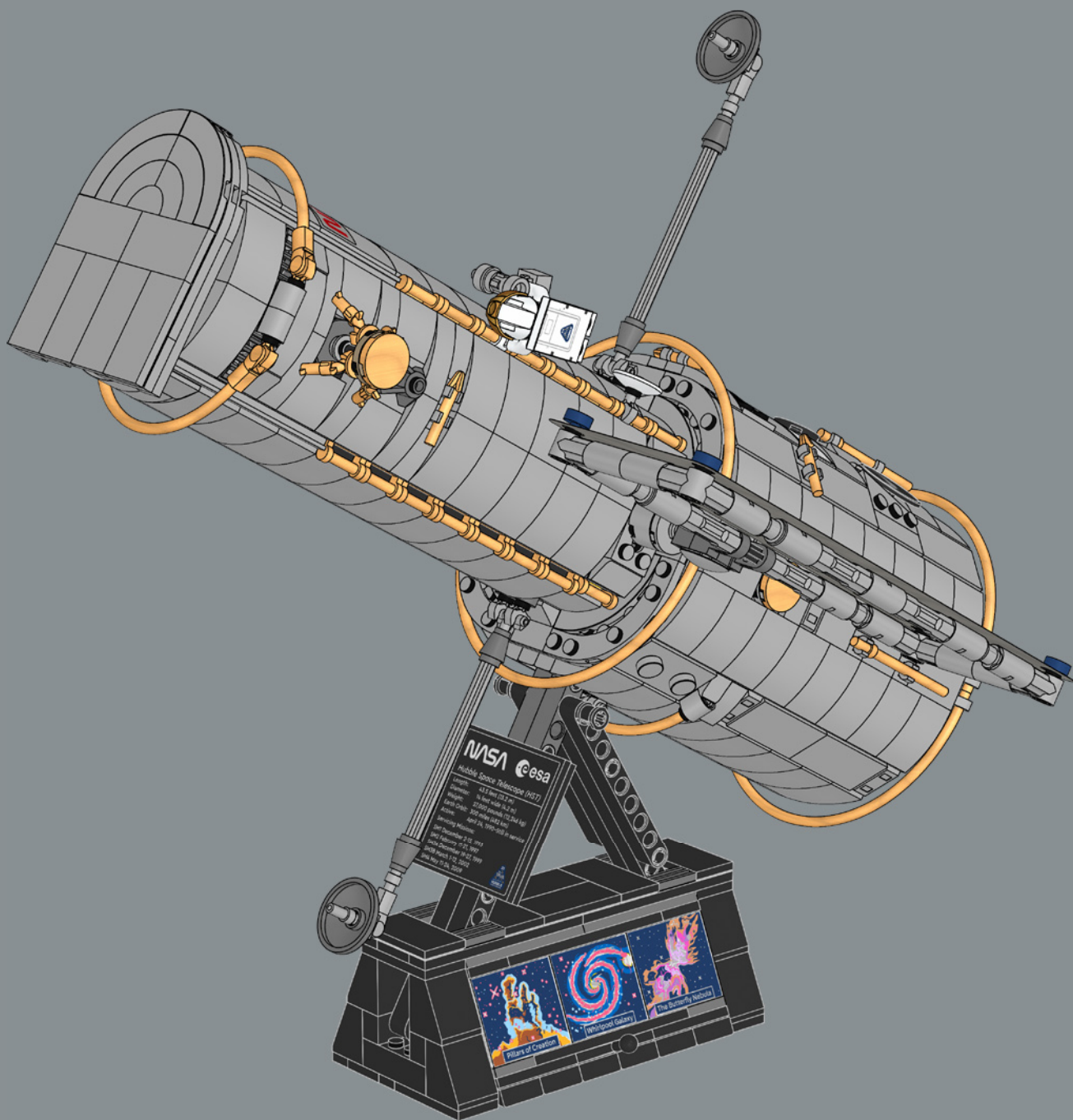
Hubble's solar array panels were changed twice. For this model, we chose the latest version installed during SM3B in 2002.



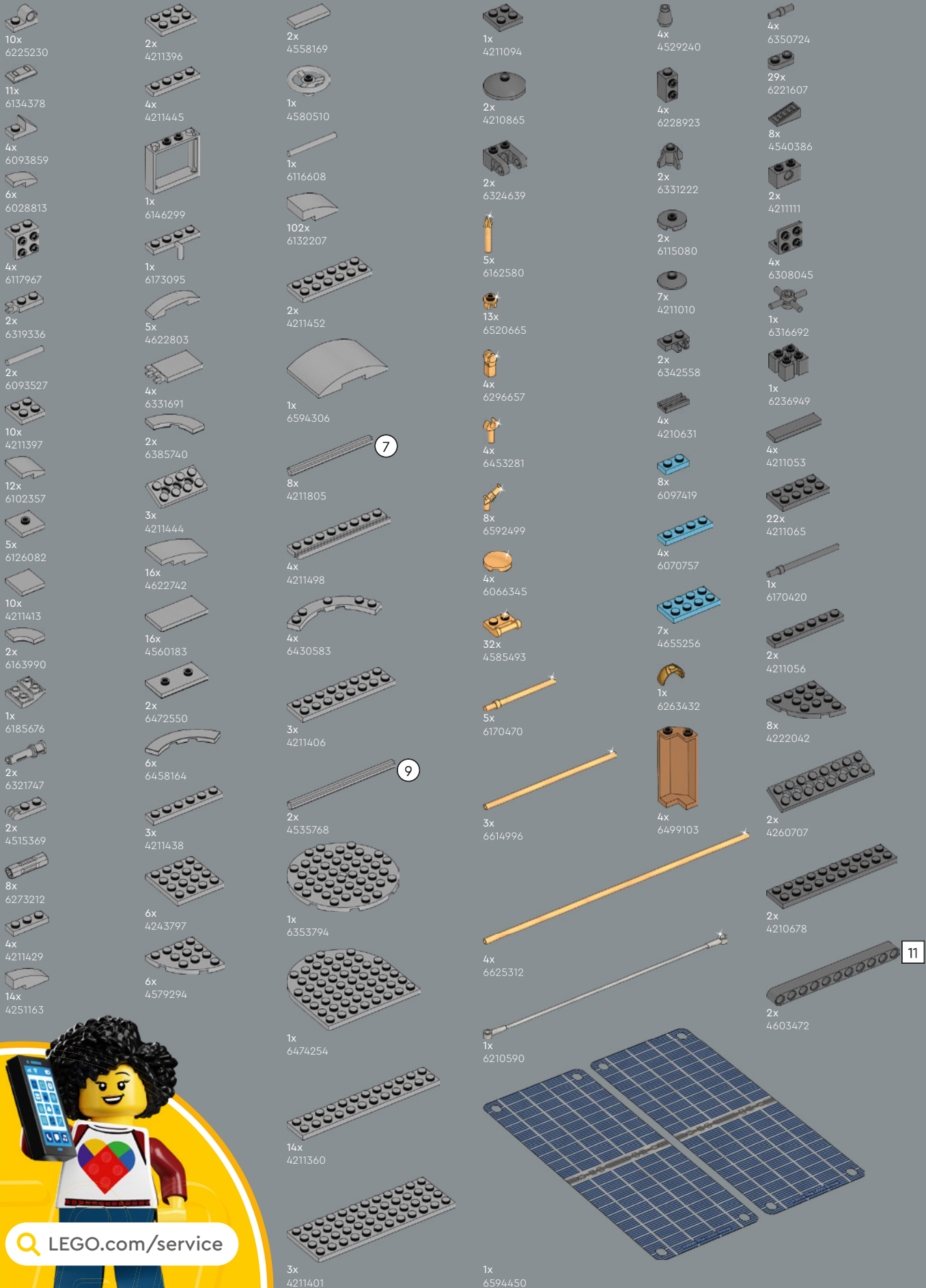
333













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