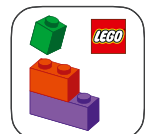




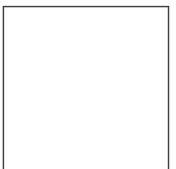
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Our window to the universe

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

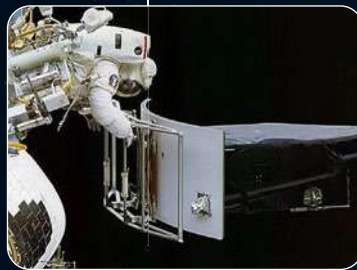
In an ongoing partnership, NASA and ESA pool their resources and contributions to the Hubble programme to revolutionise astronomy. Both share discoveries, with observing time allocated solely on scientific merit by an international panel. ESA is guaranteed 15% access and often achieves nearly 25%. The 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).

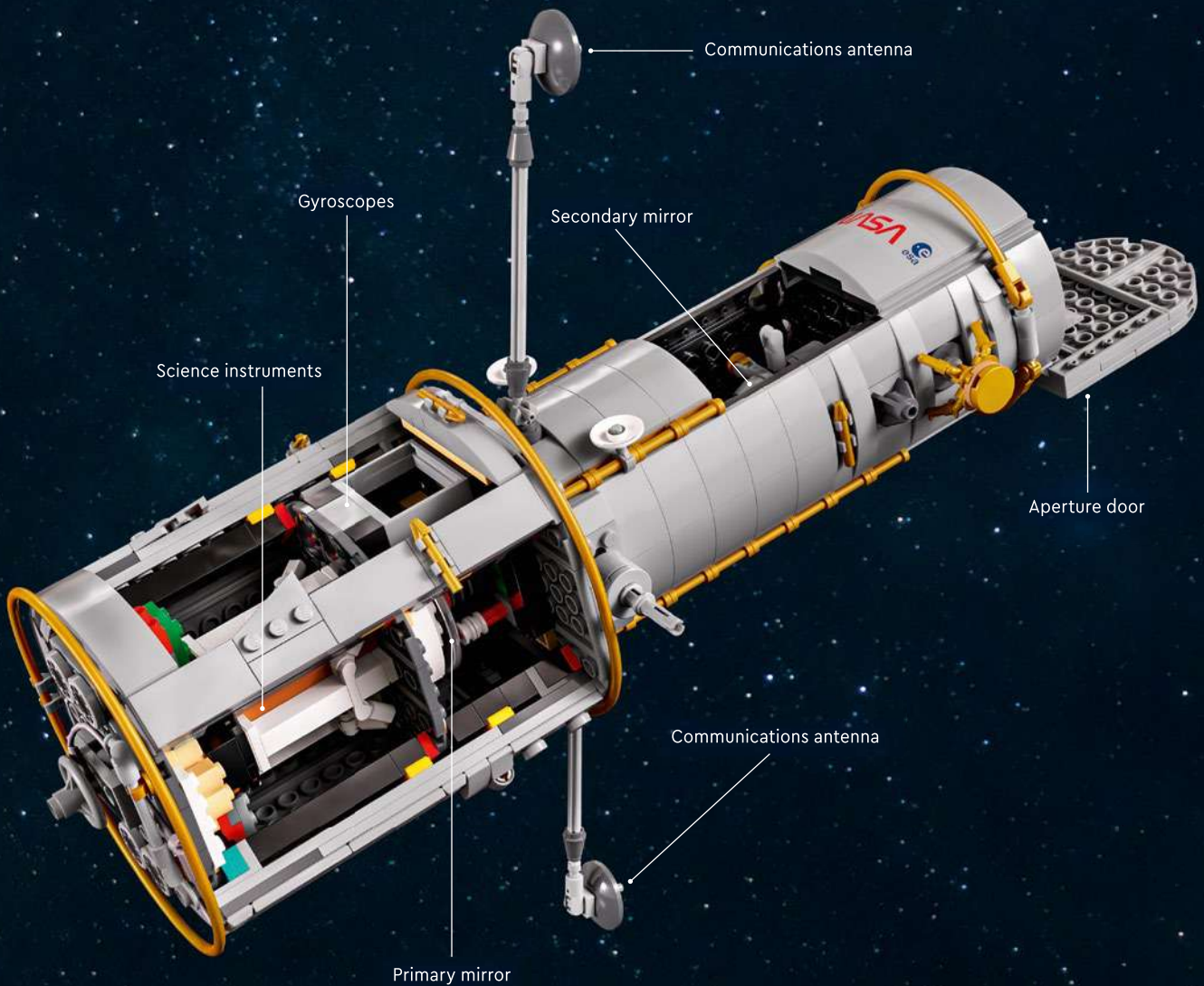


11-24 May 2009

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)

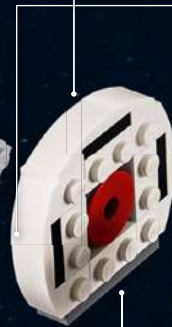
Secondary mirror

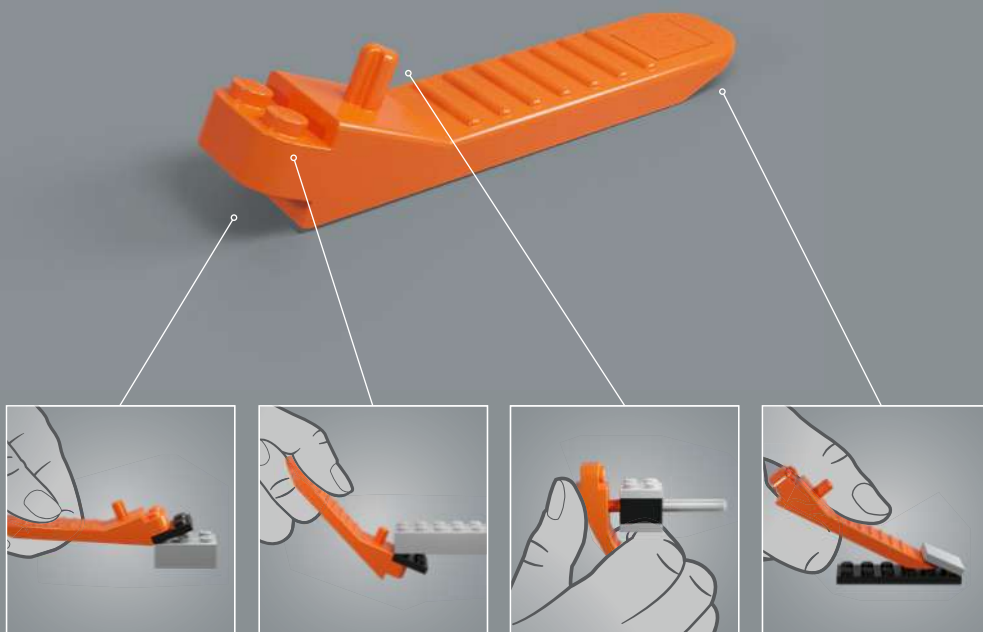
Primary mirror

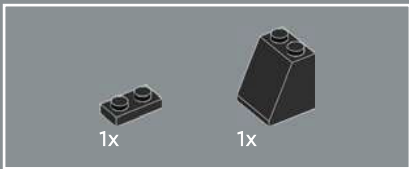
Central
Baffle

Gyroscopes

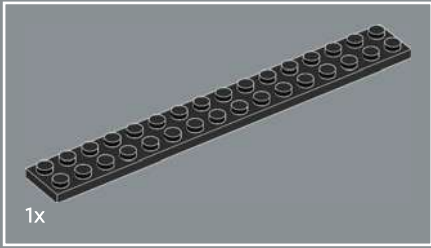
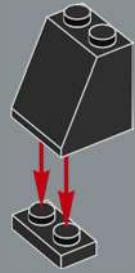
Wide Field Camera



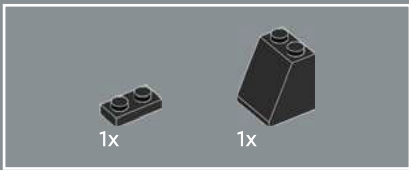
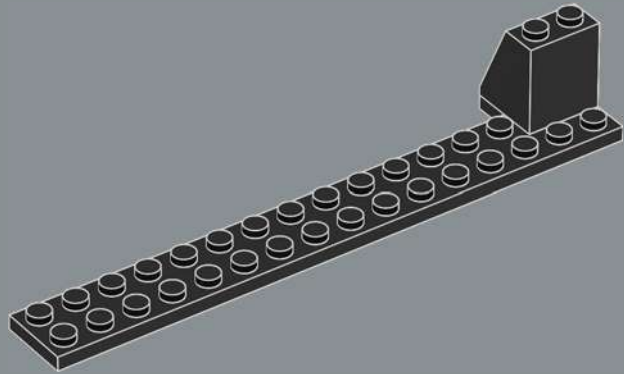




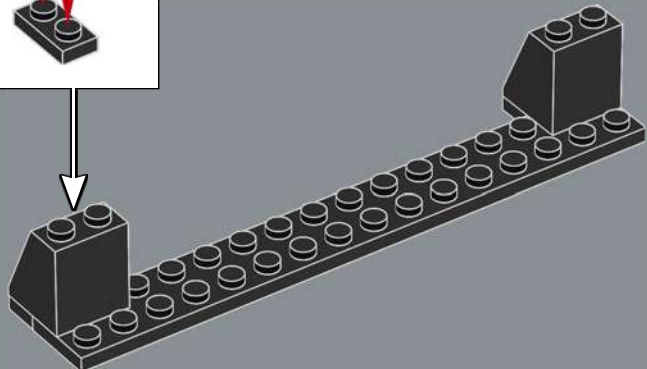
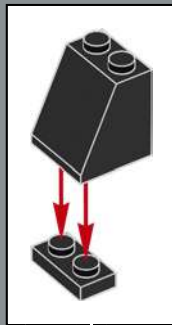
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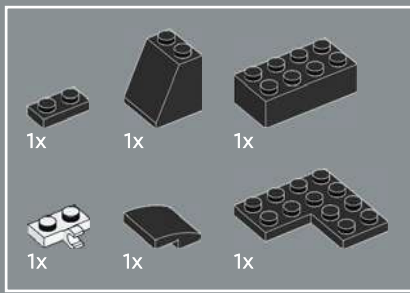


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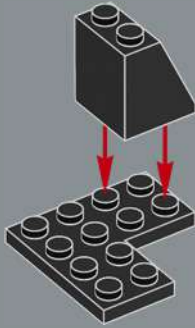
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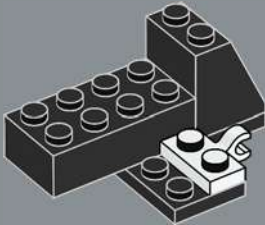


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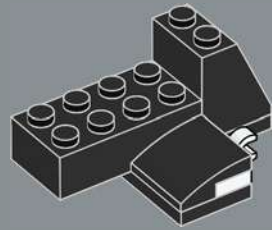
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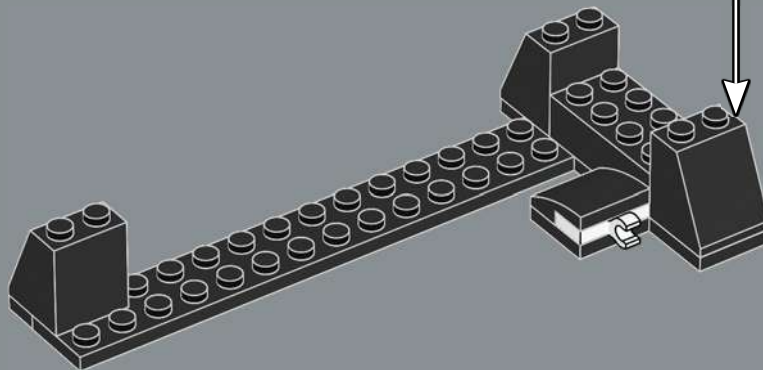
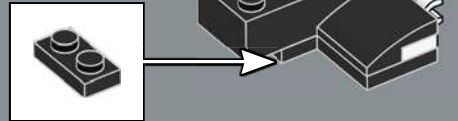
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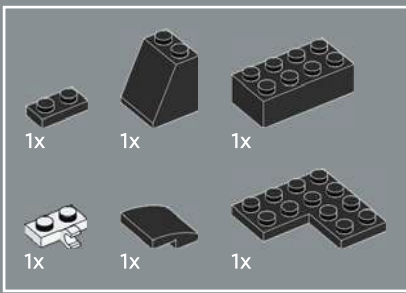


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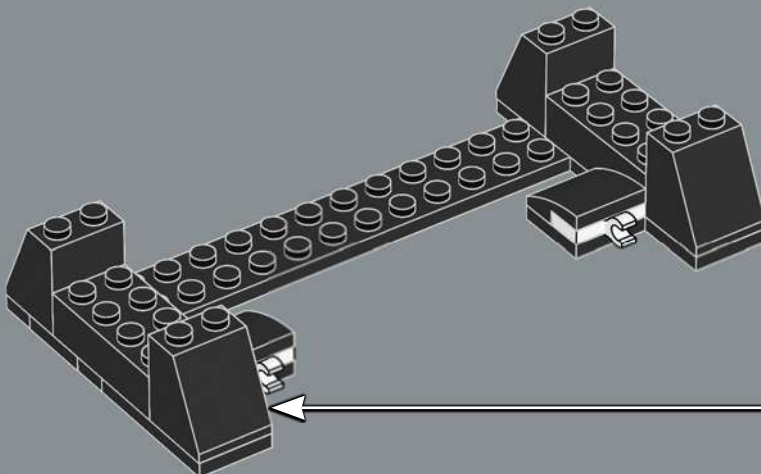
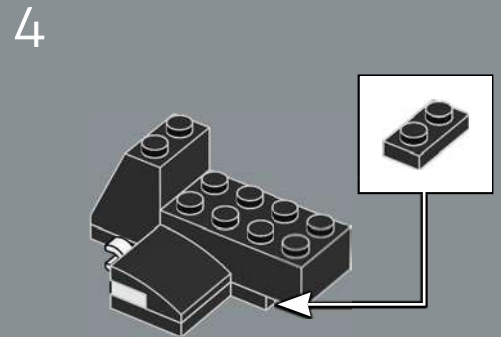
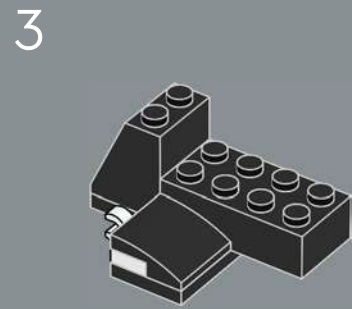
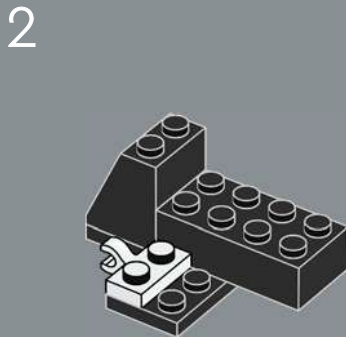
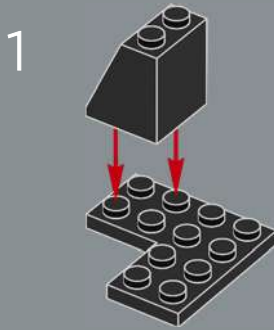


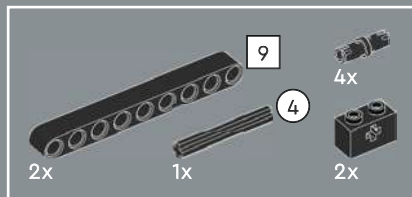
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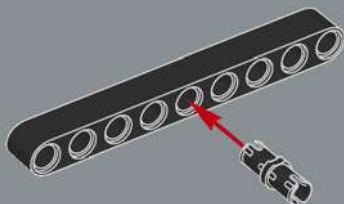
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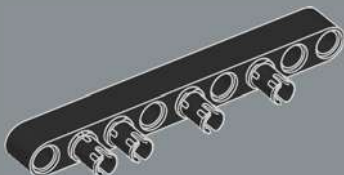


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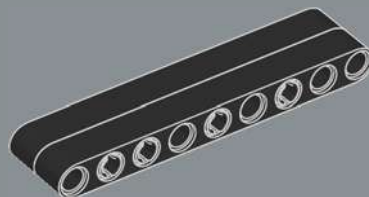
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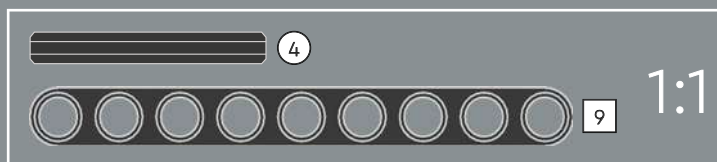
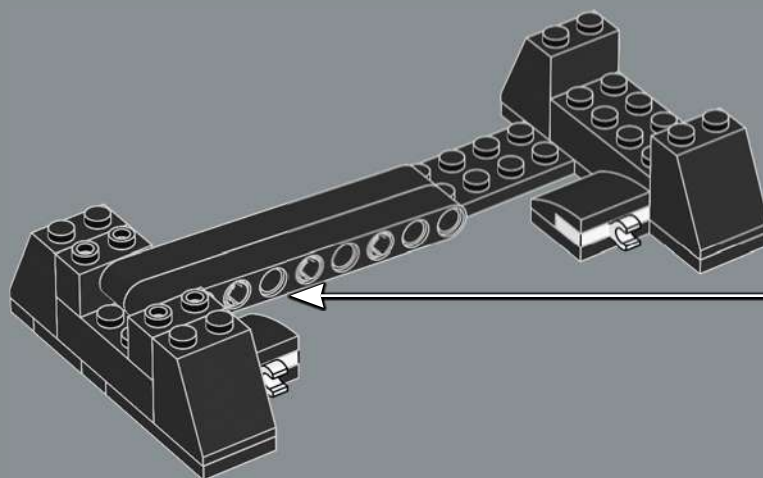
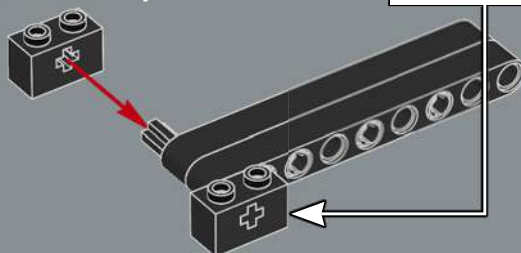
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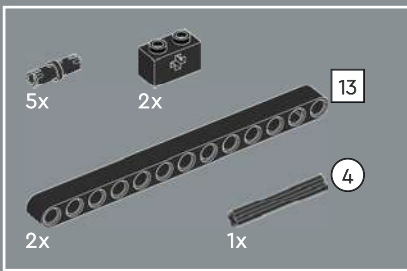


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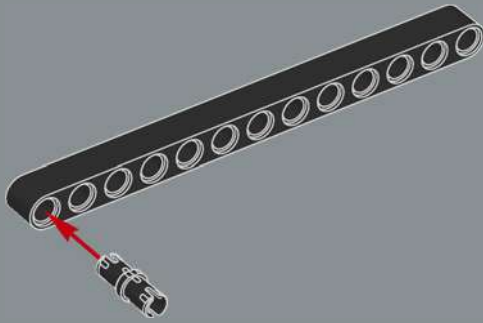
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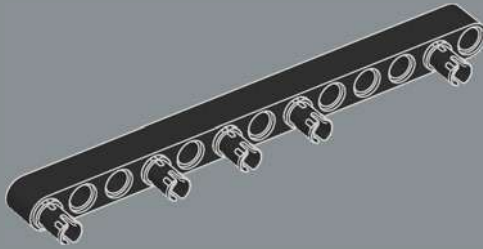


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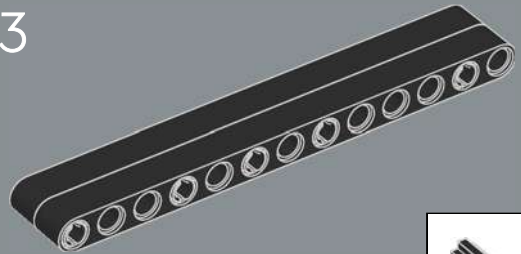
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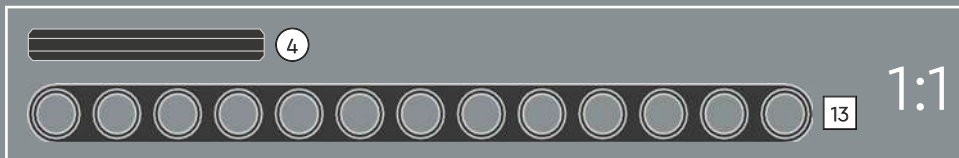
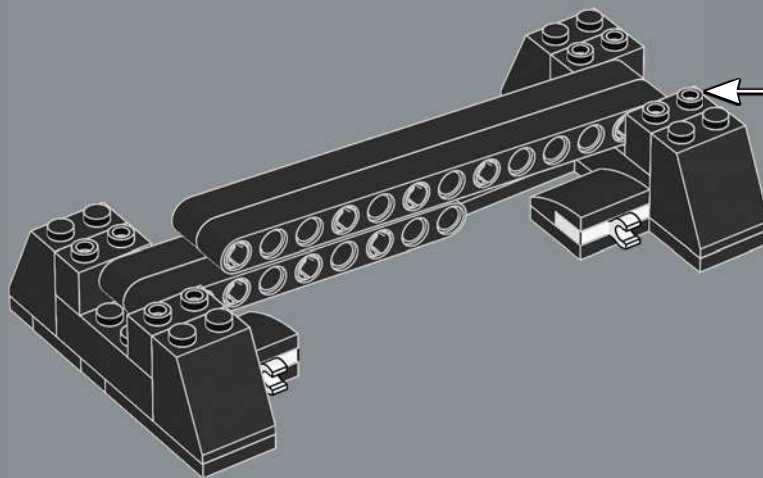
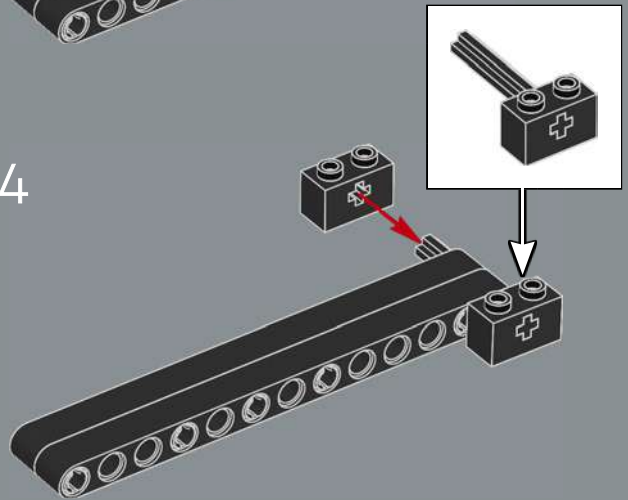
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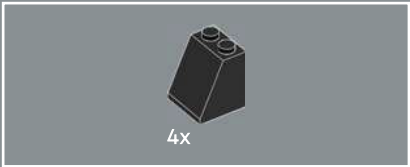


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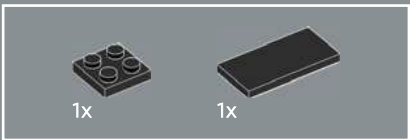
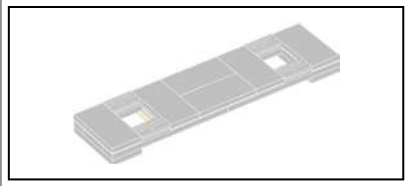
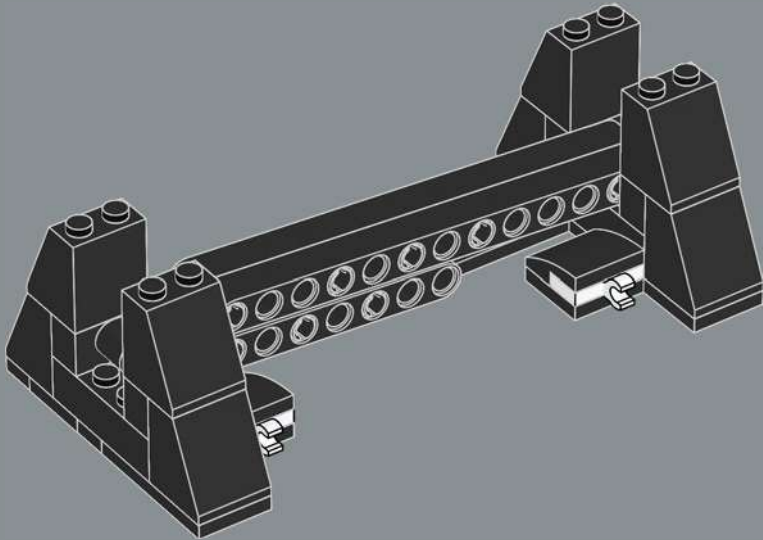


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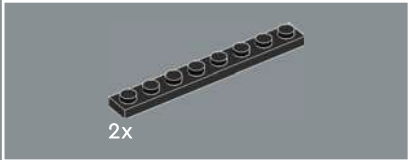
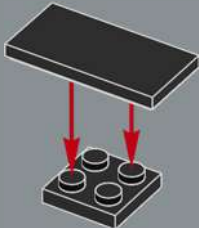




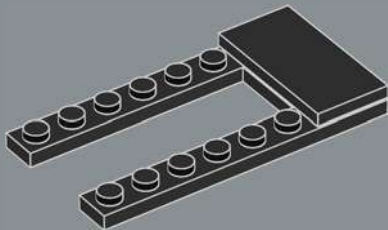
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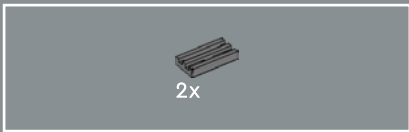


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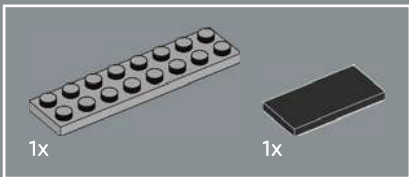
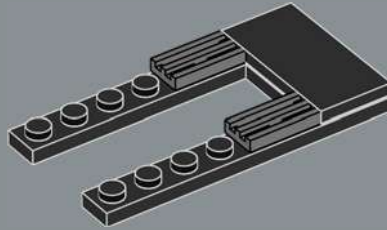


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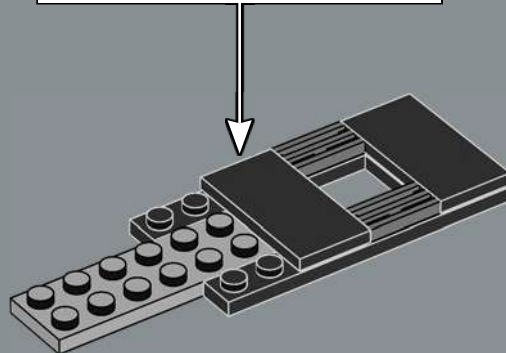
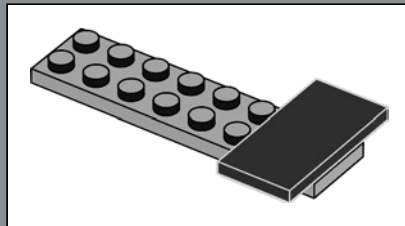




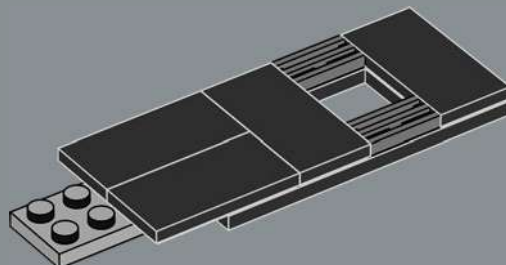
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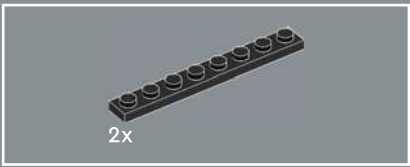


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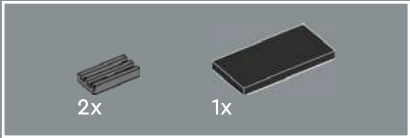
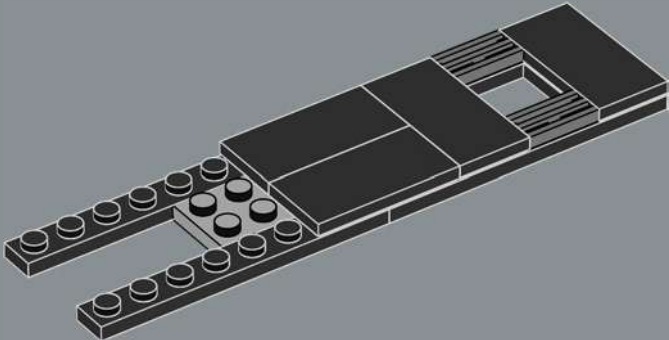


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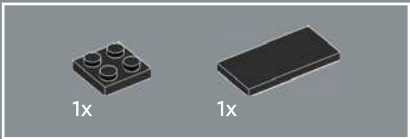
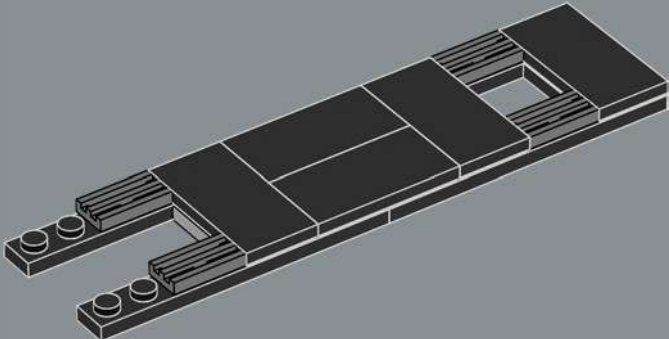




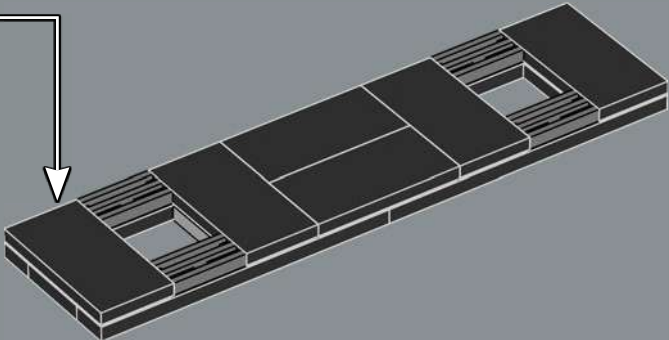
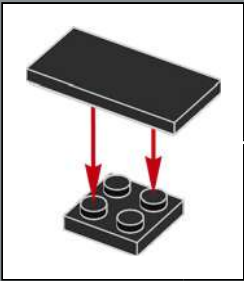
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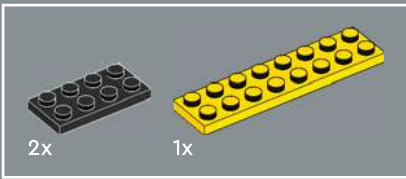


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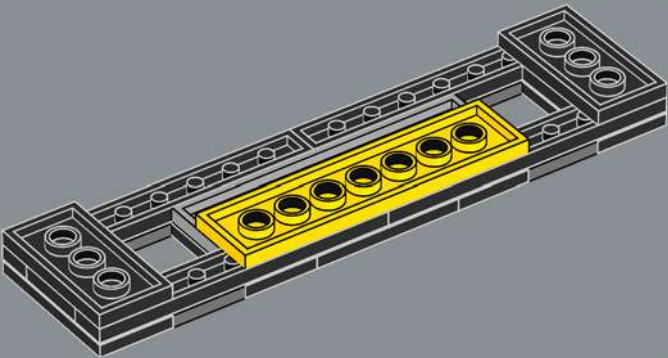


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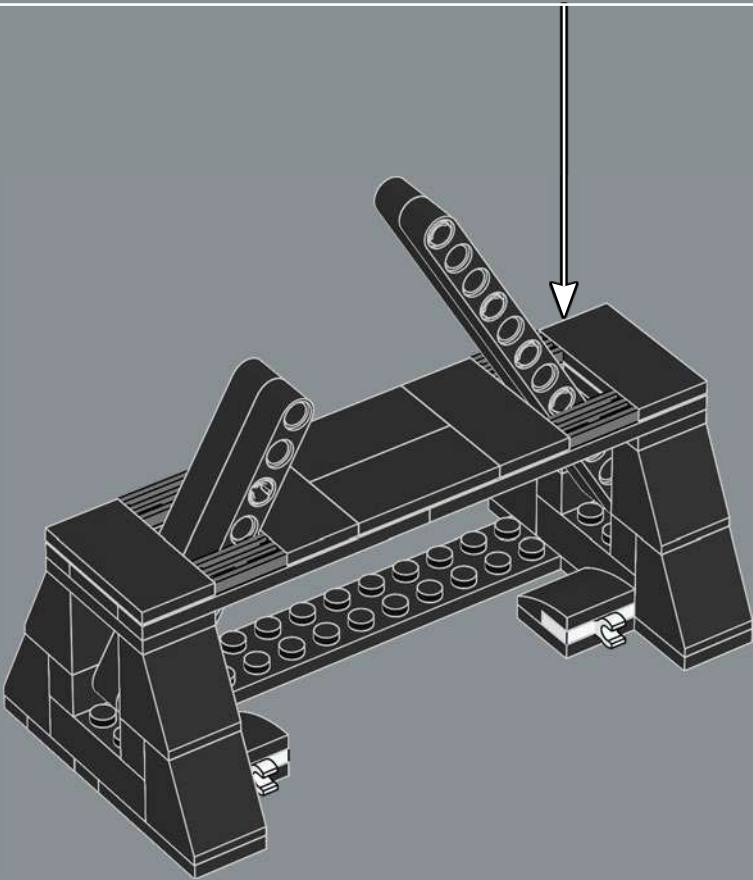


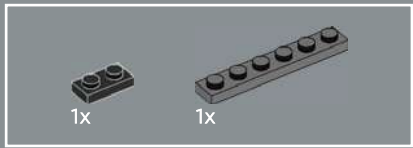


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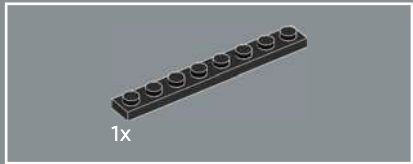
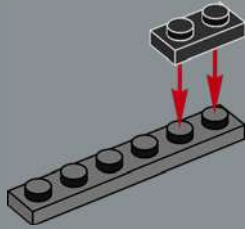


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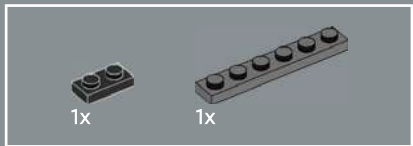
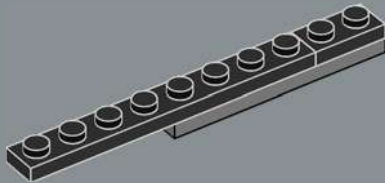




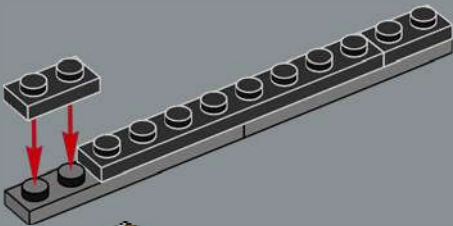
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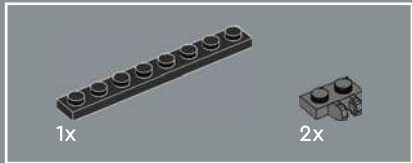
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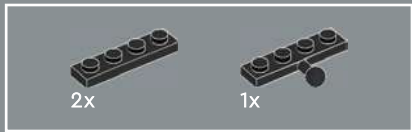
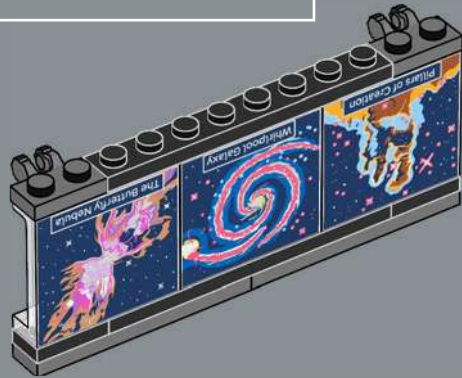
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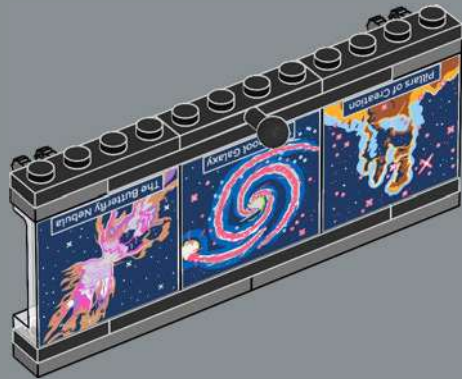
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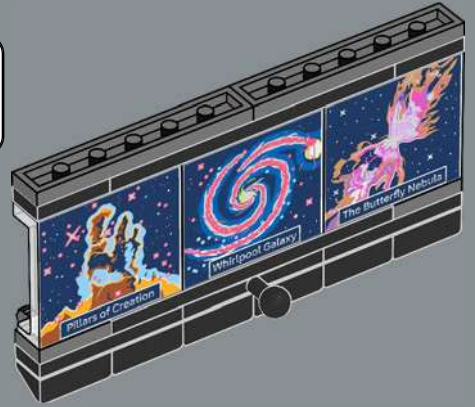
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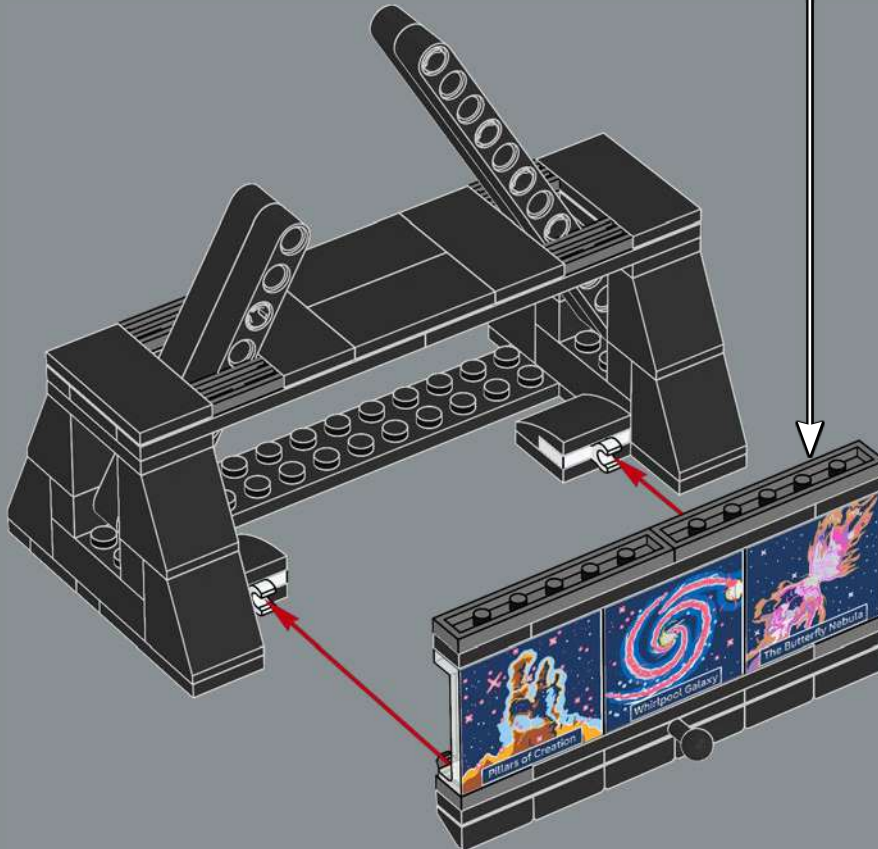
With its famous Deep Field images, Hubble looked farther into space – and further back in time – than any telescope before it.

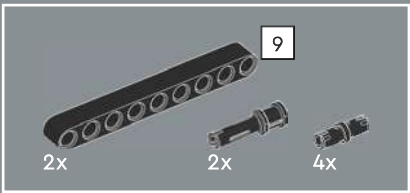


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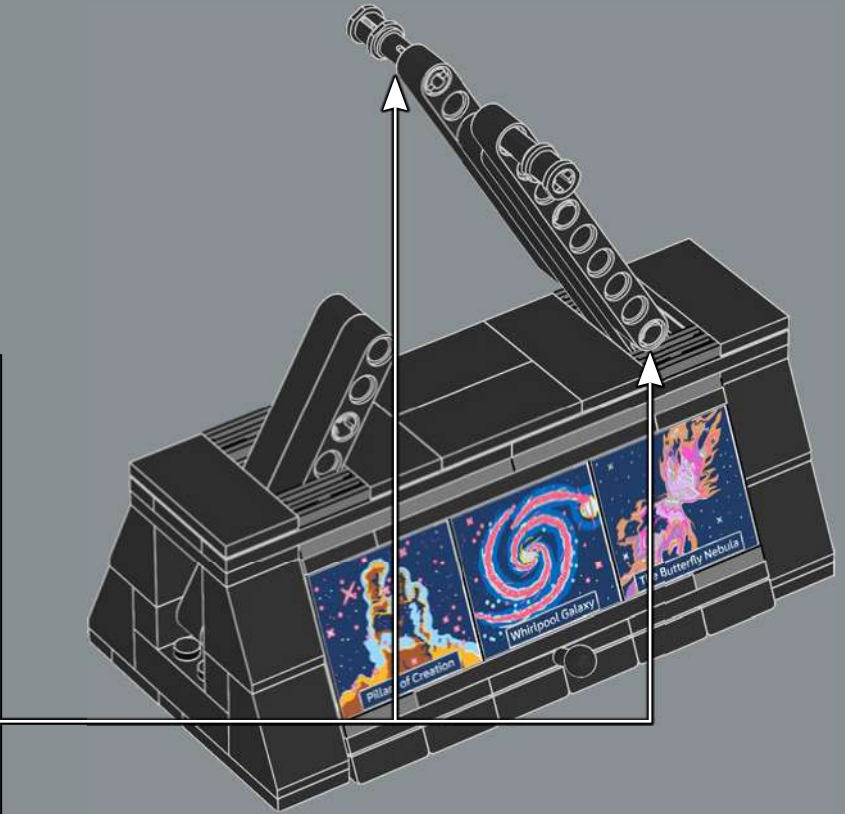
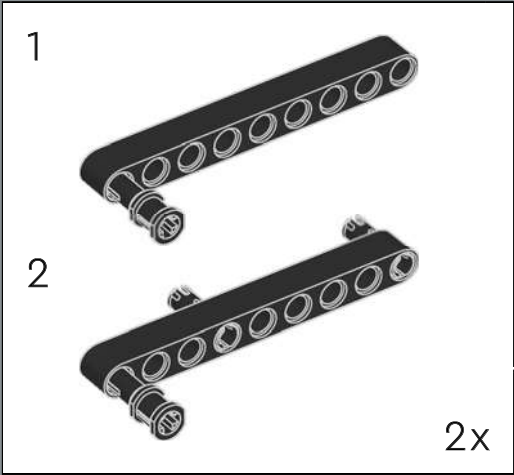


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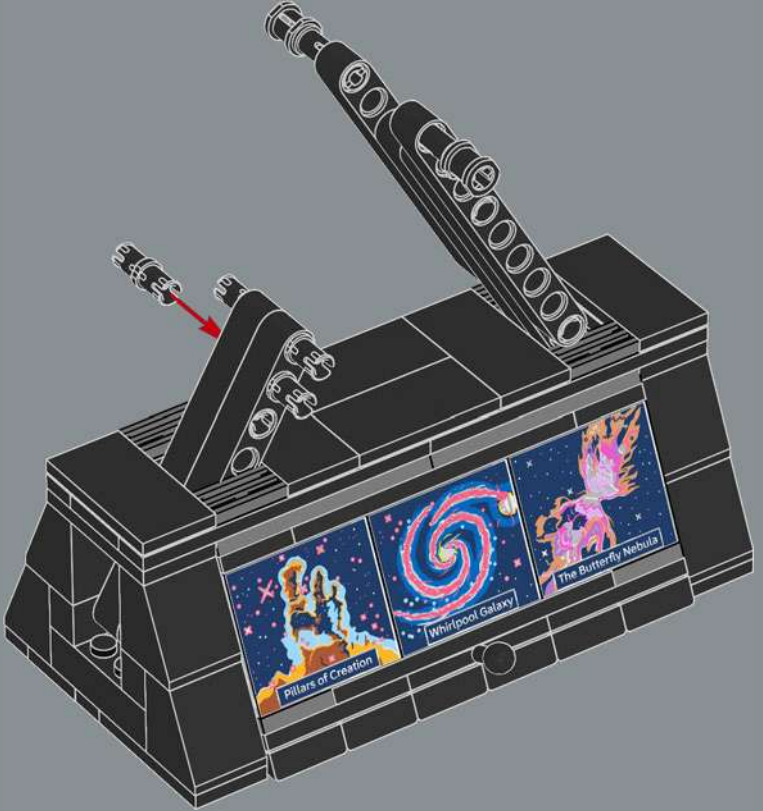


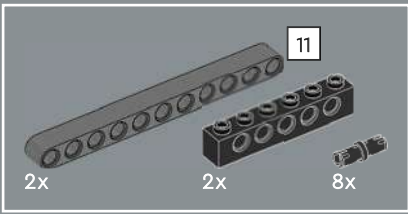


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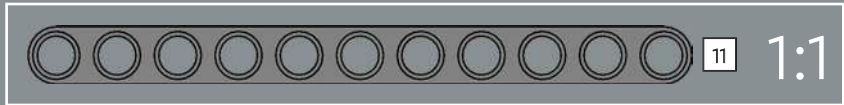
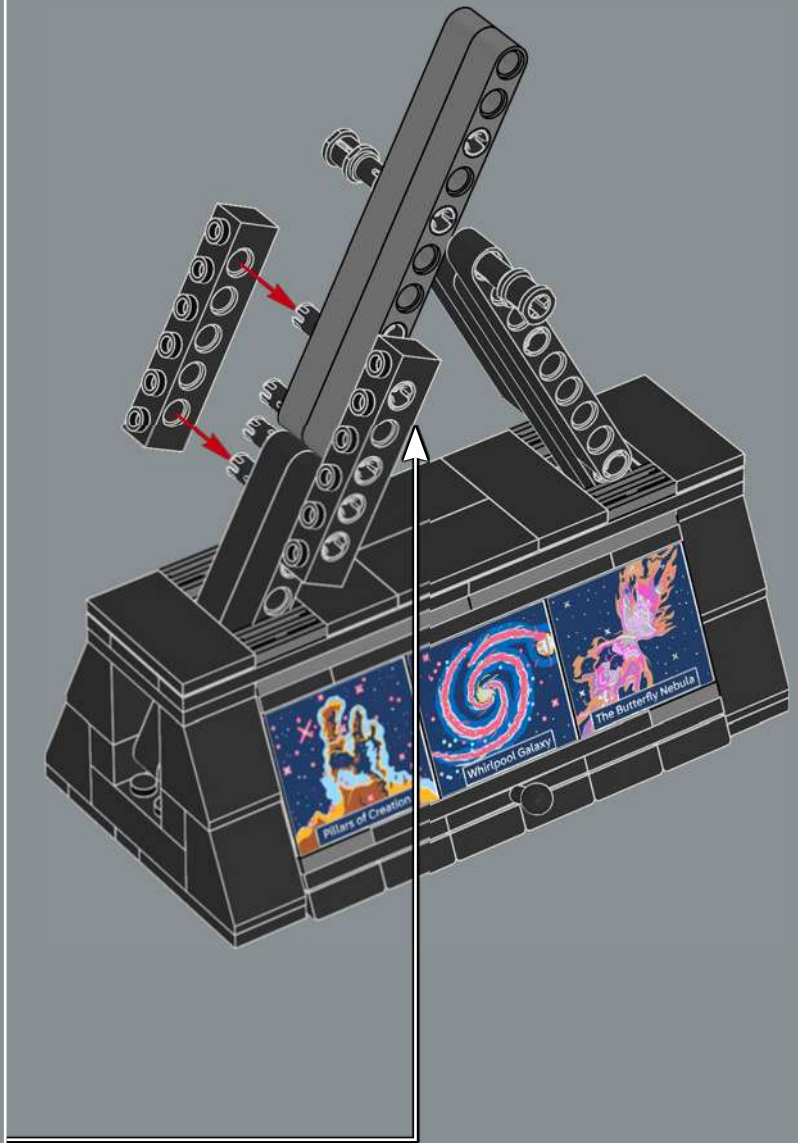
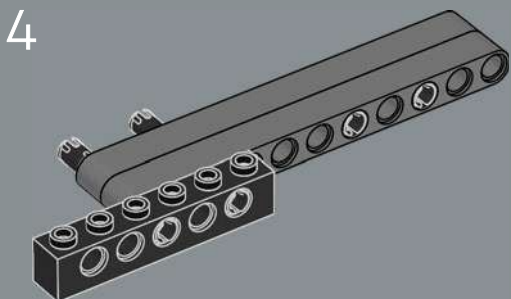
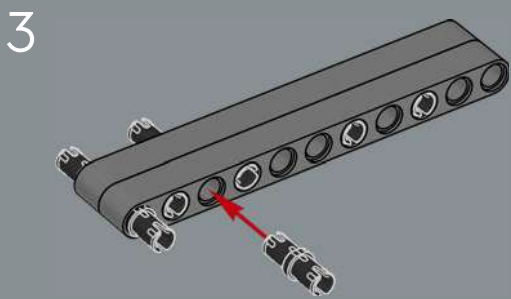
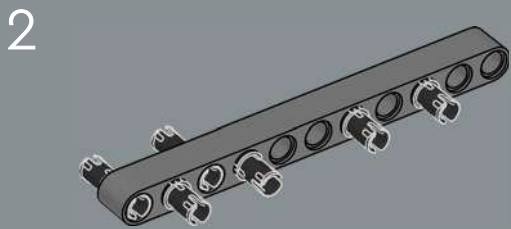
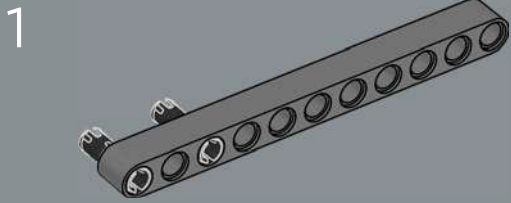


29





30

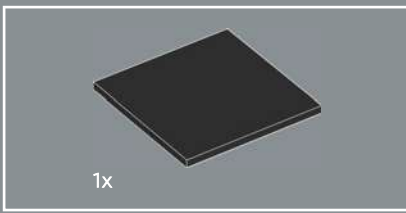


Since 1990, the Hubble Space Telescope has recorded more than 1.7 million observations and collected data from more than 108,000,000 astronomical objects.

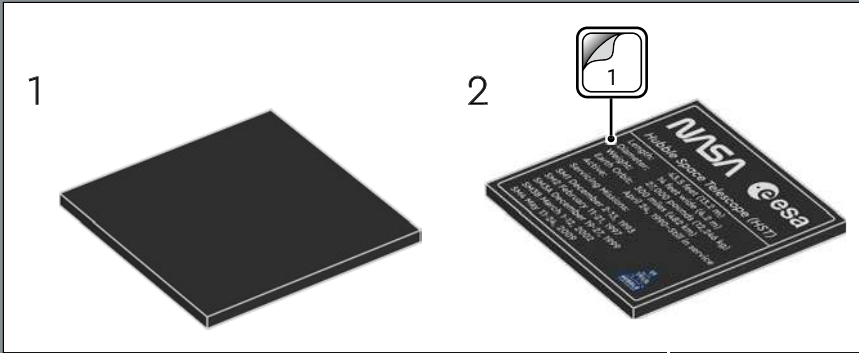


31





32

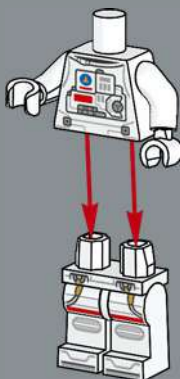




Even after more than 35 years in orbit, Hubble continues to deliver groundbreaking science and has inspired telescopes like the James Webb Space Telescope.

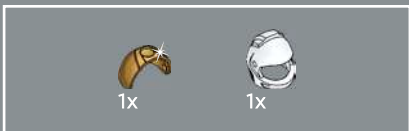
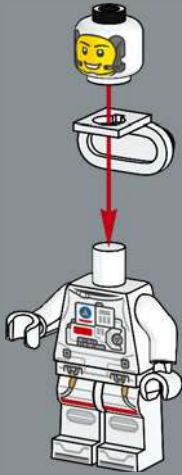


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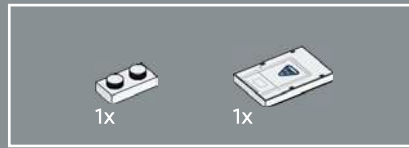
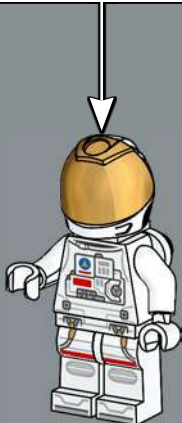
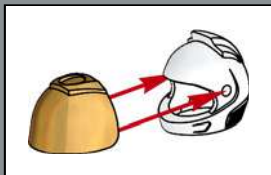




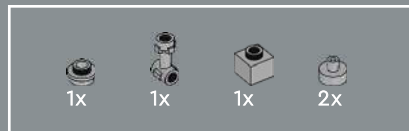
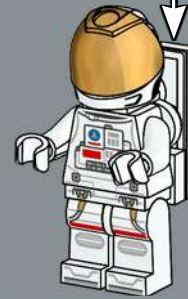
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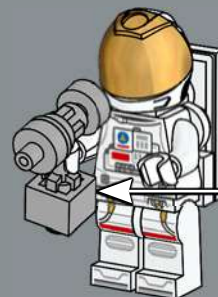
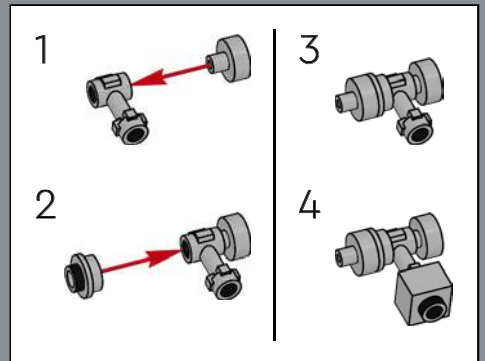
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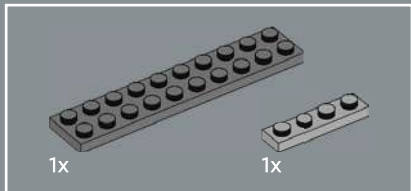


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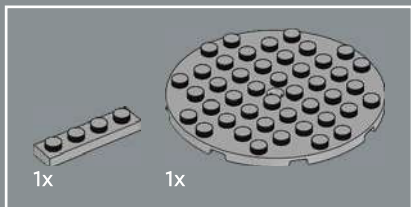
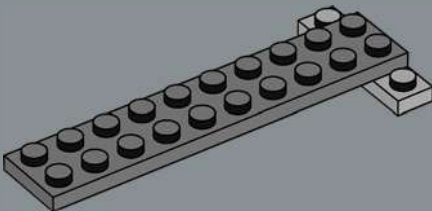


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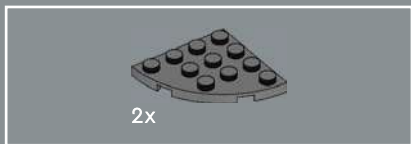
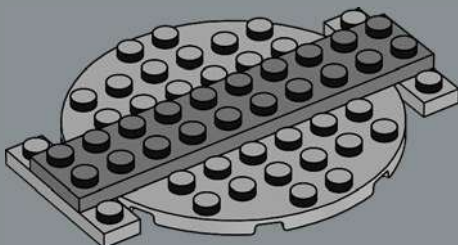




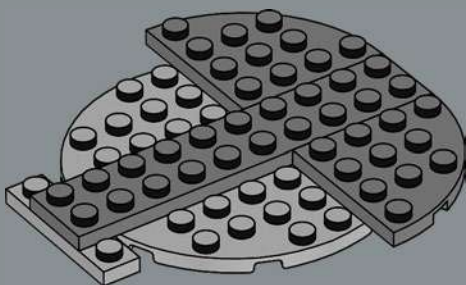
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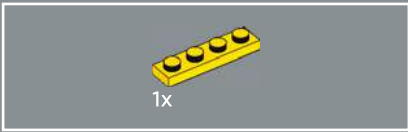


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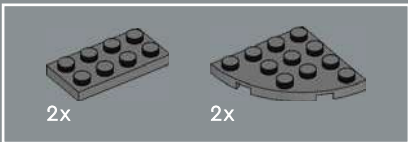
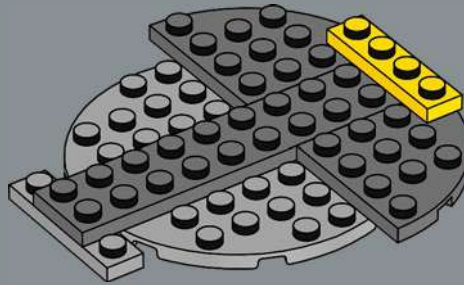


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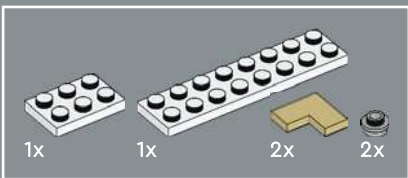
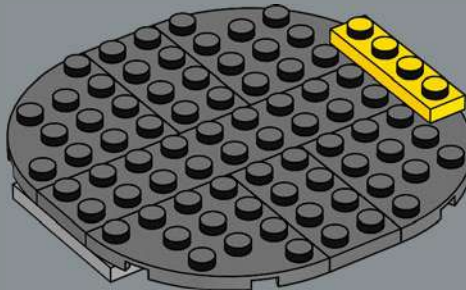




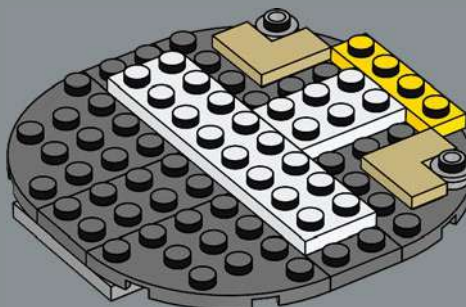
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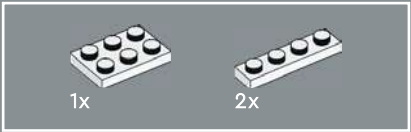


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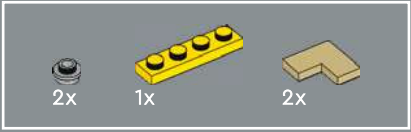
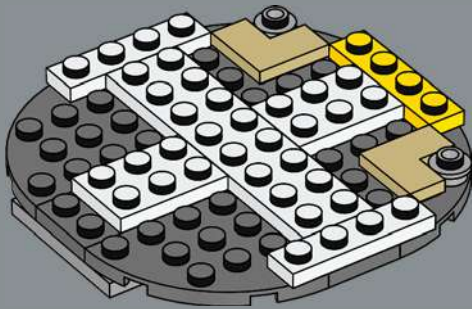


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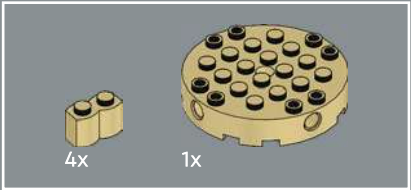
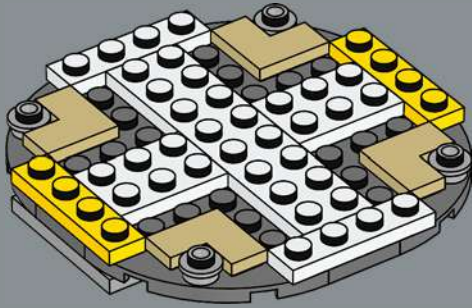




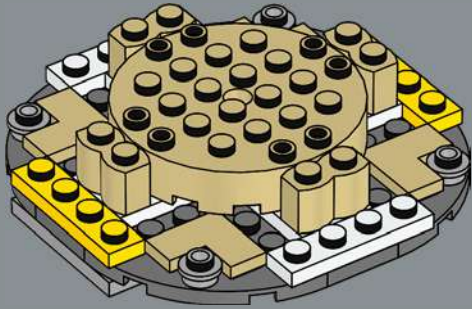
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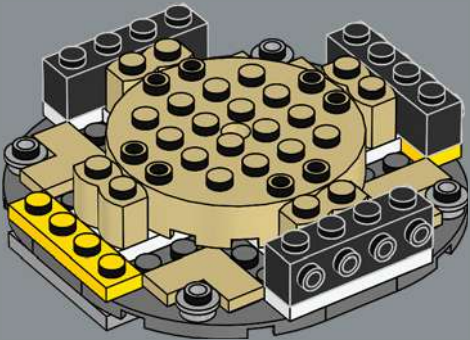


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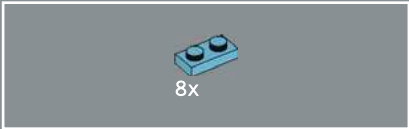
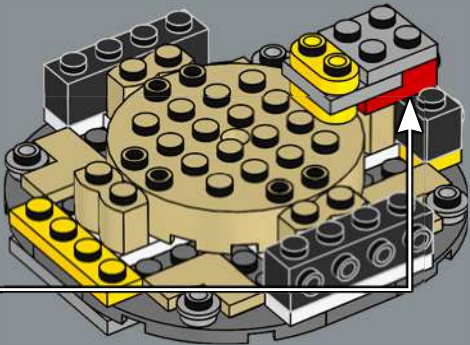
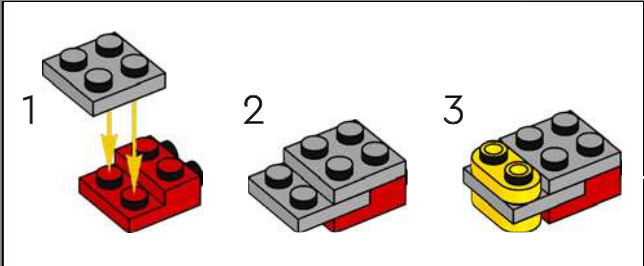




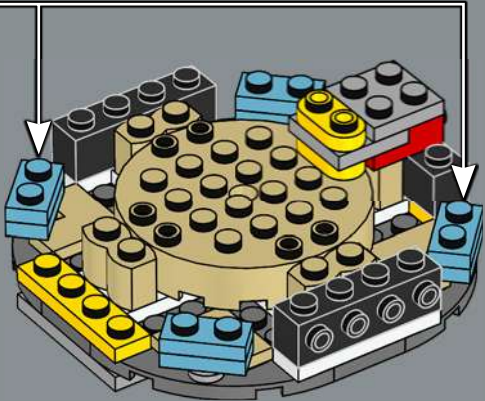
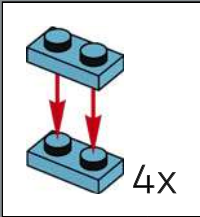
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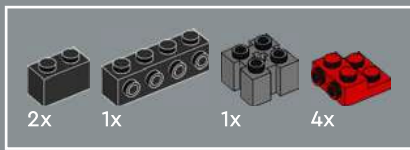


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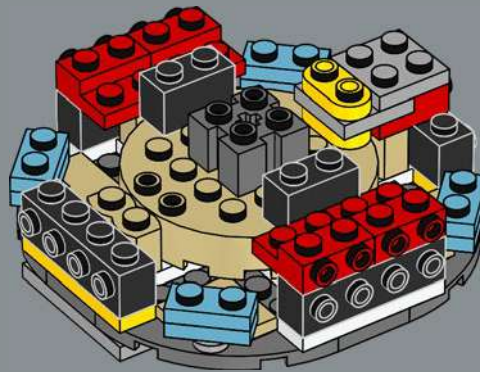


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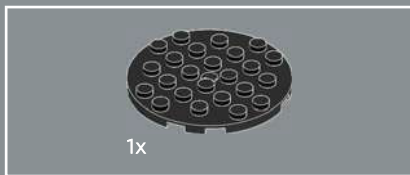
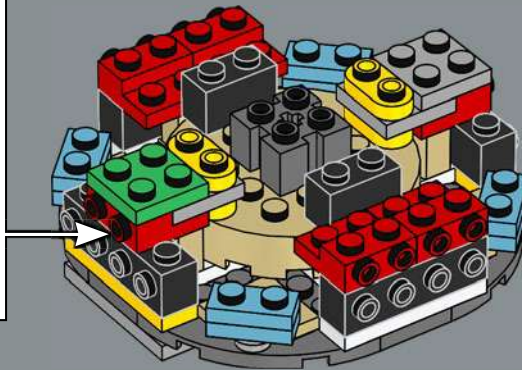
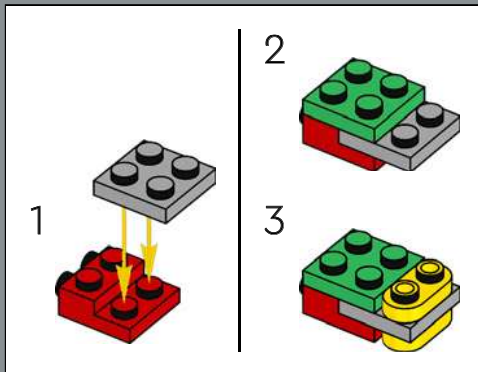




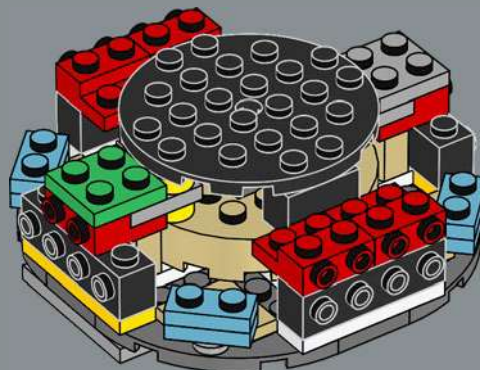
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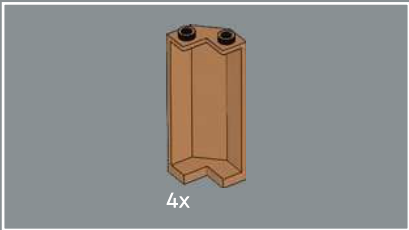
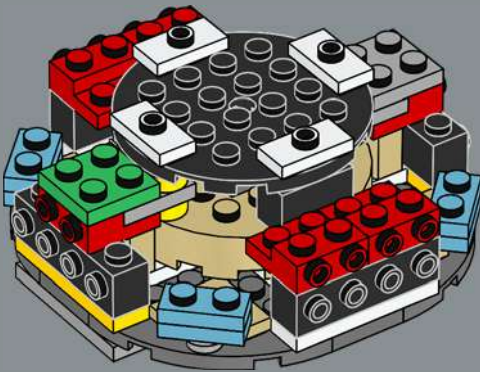


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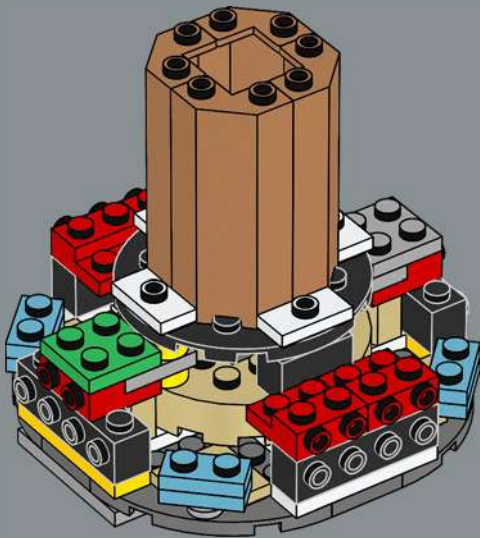


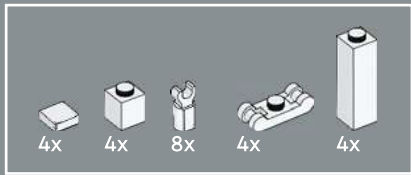


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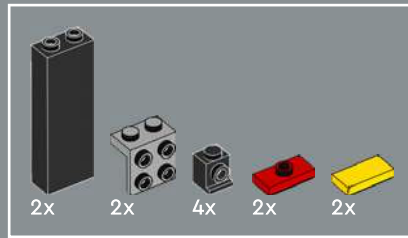
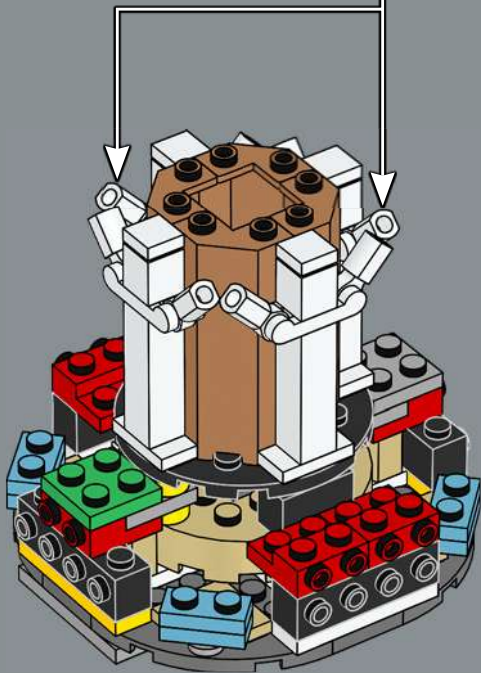
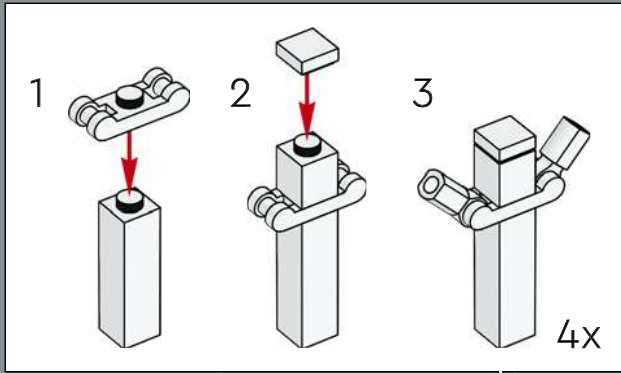


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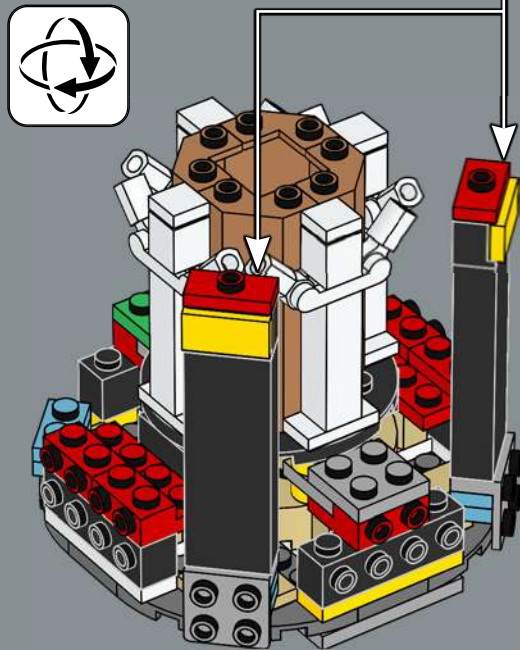
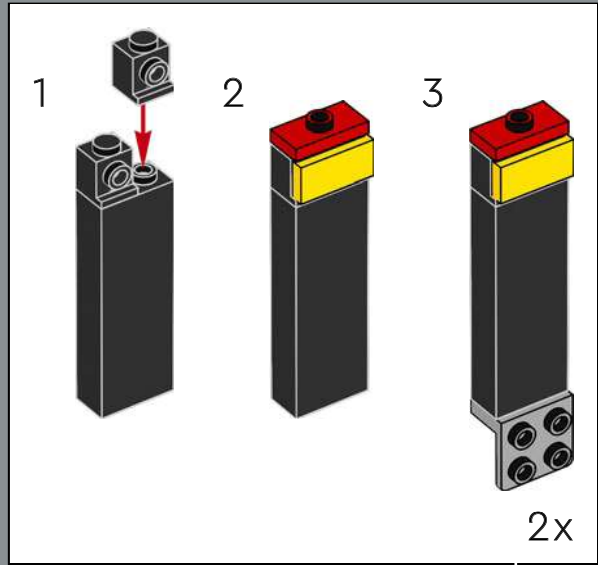


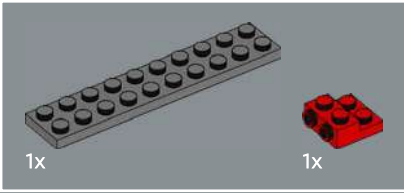
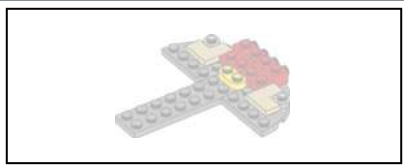


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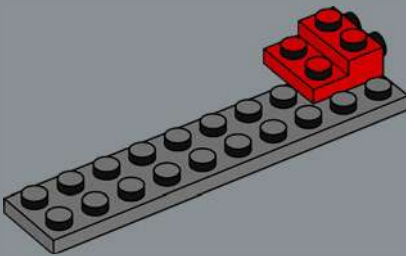


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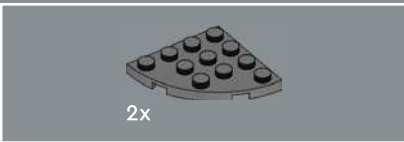
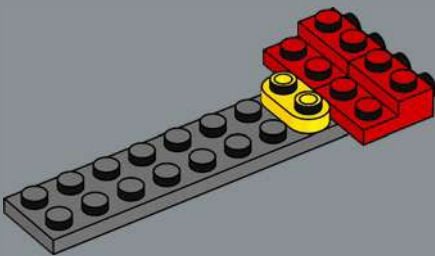




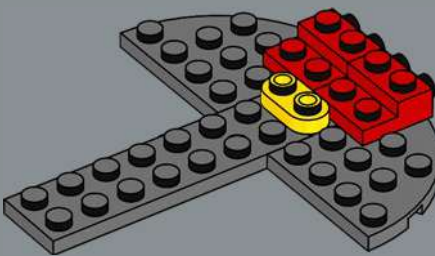
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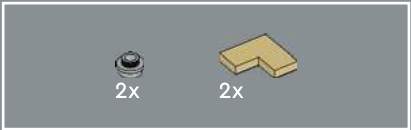


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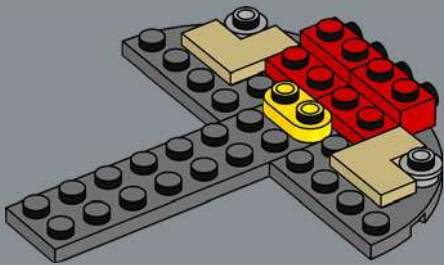


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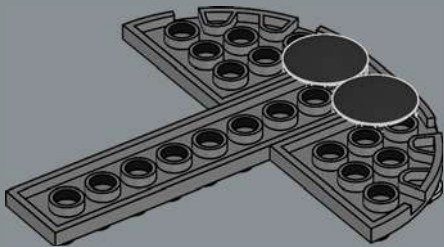




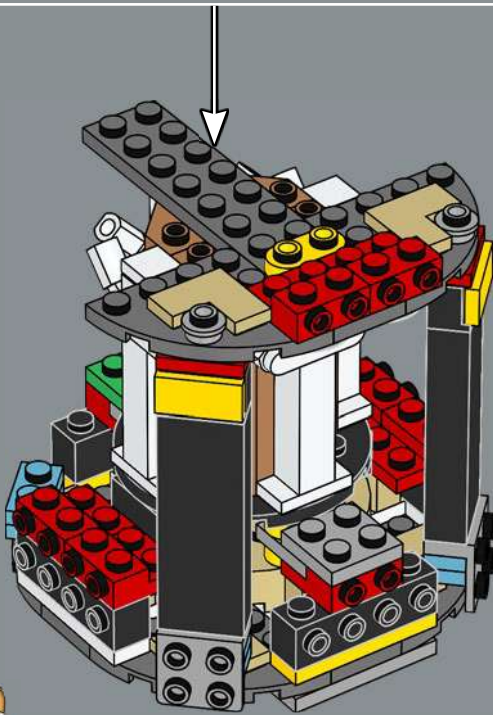
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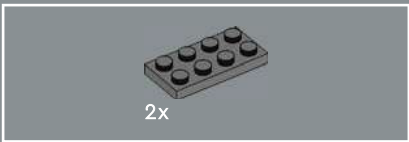


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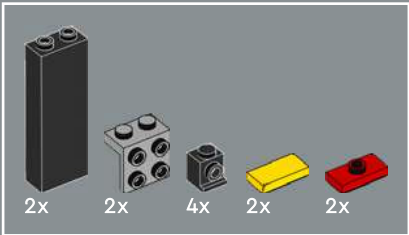


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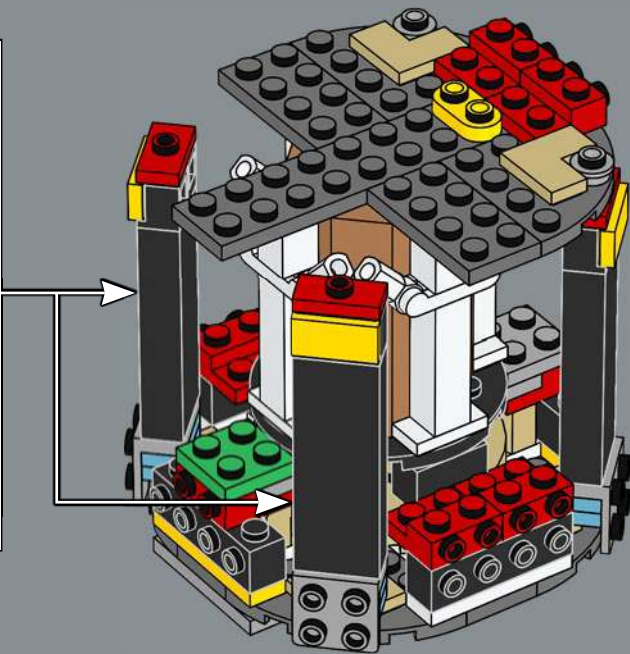
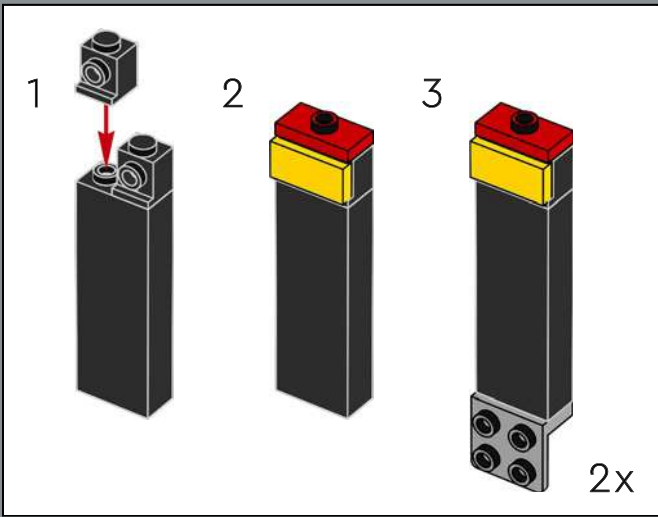


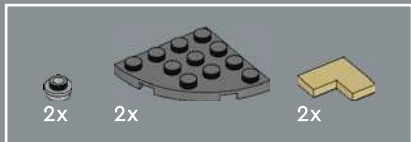


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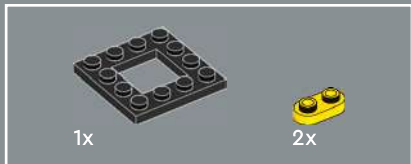
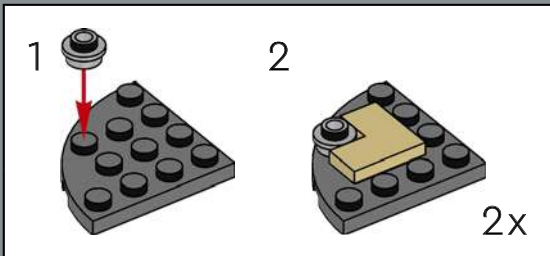


64





65



66



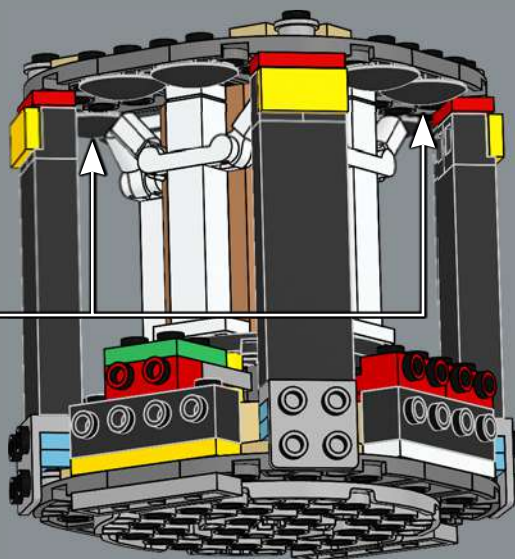


6x

67



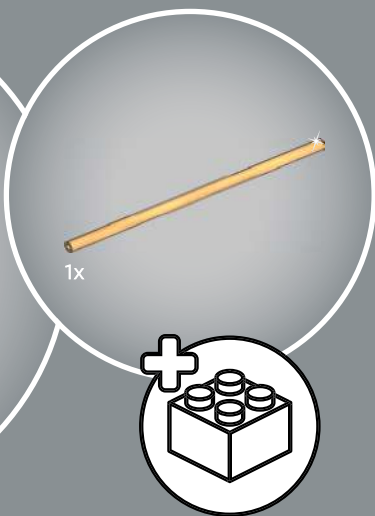
6x



4x

68





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



69





4x

70

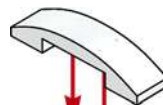


3x

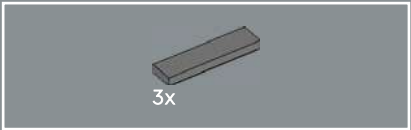


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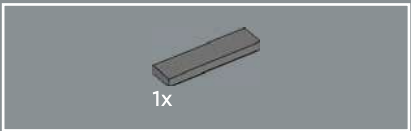
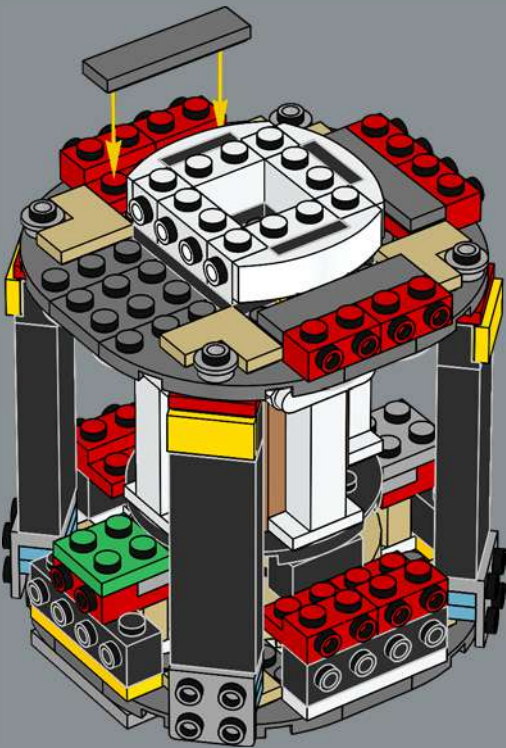
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3x

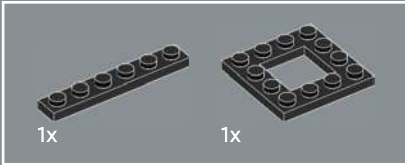
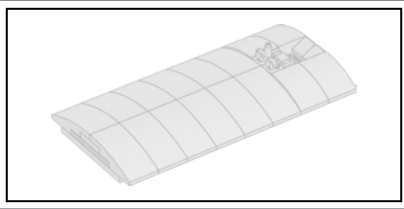


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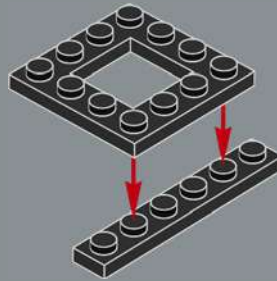


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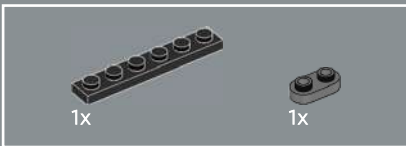
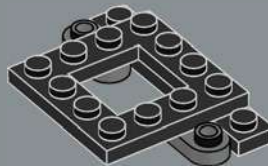




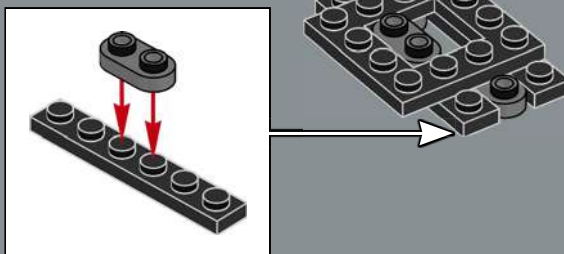
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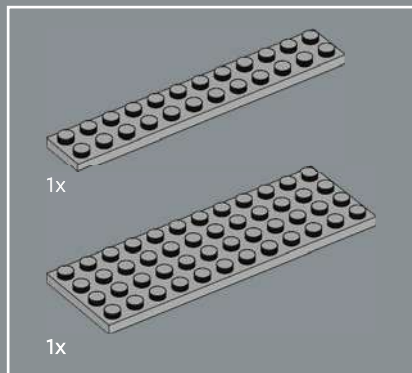


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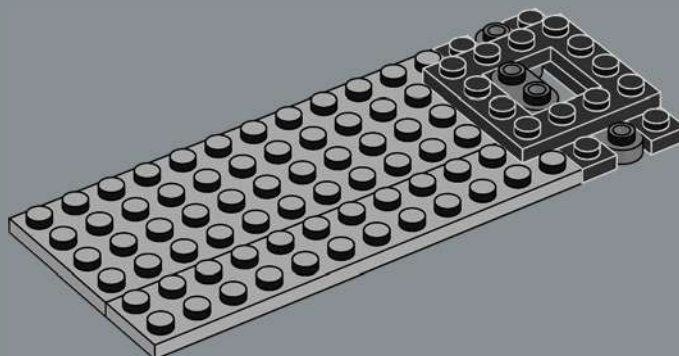


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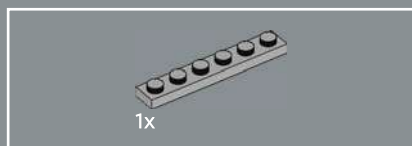
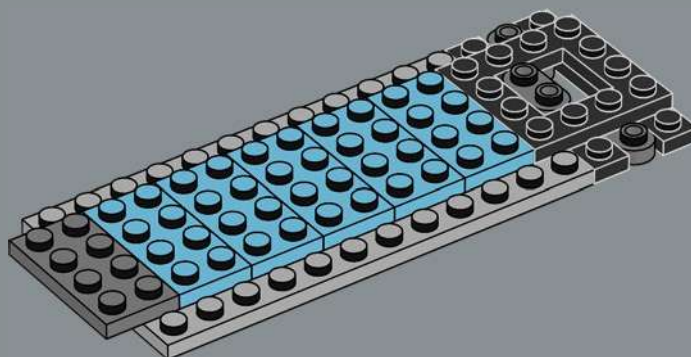




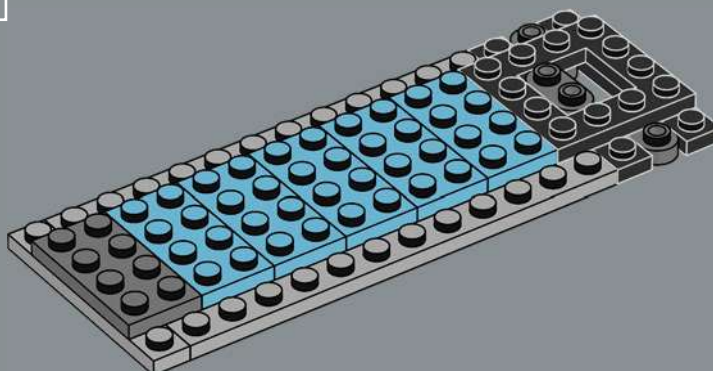
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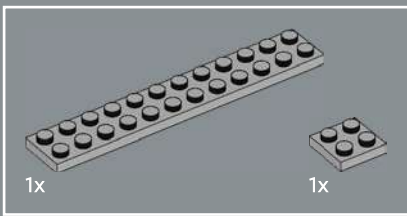


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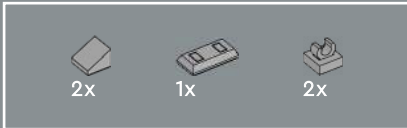
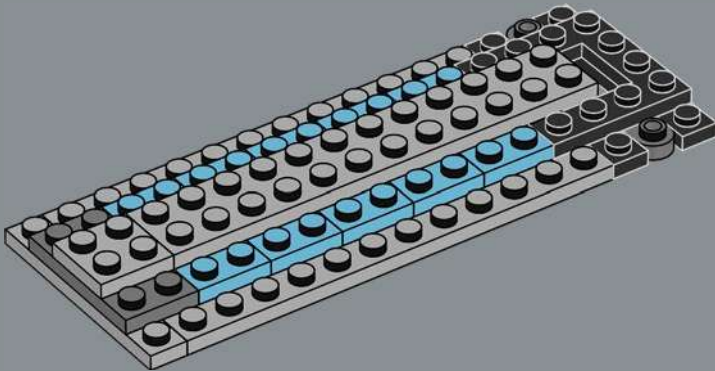


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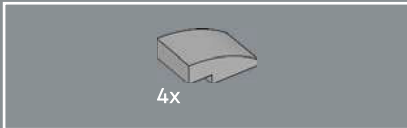
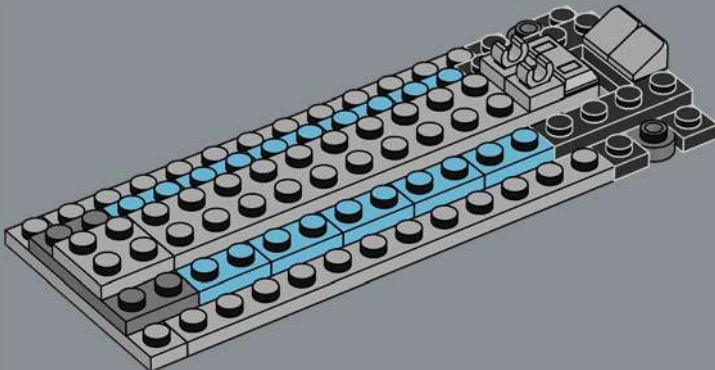




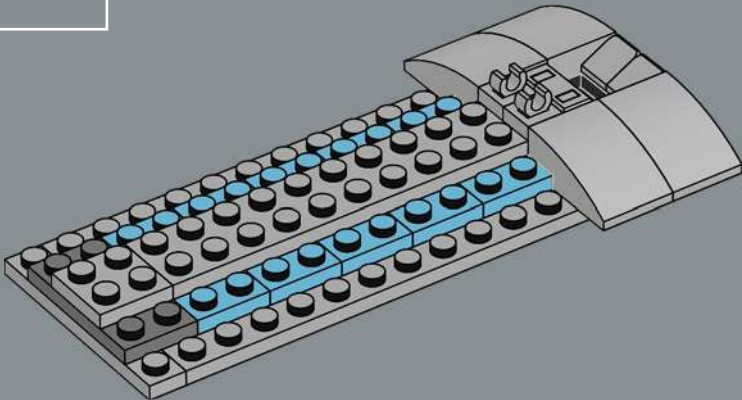
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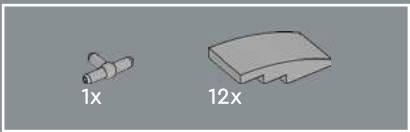


81

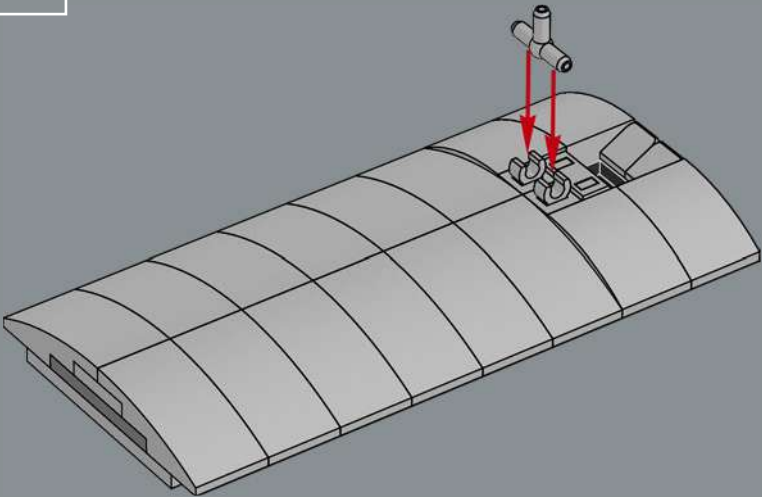


82

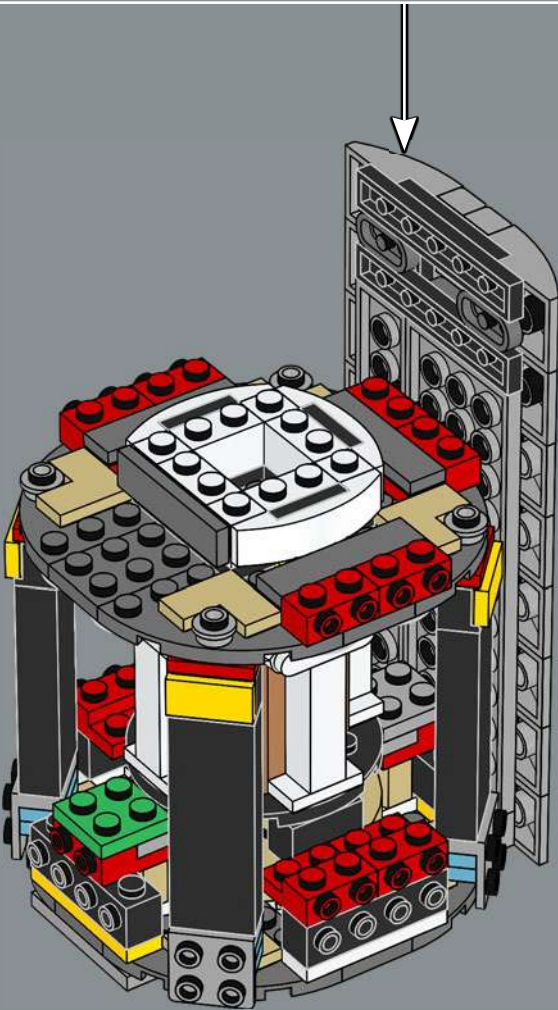


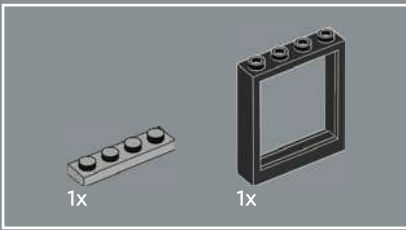


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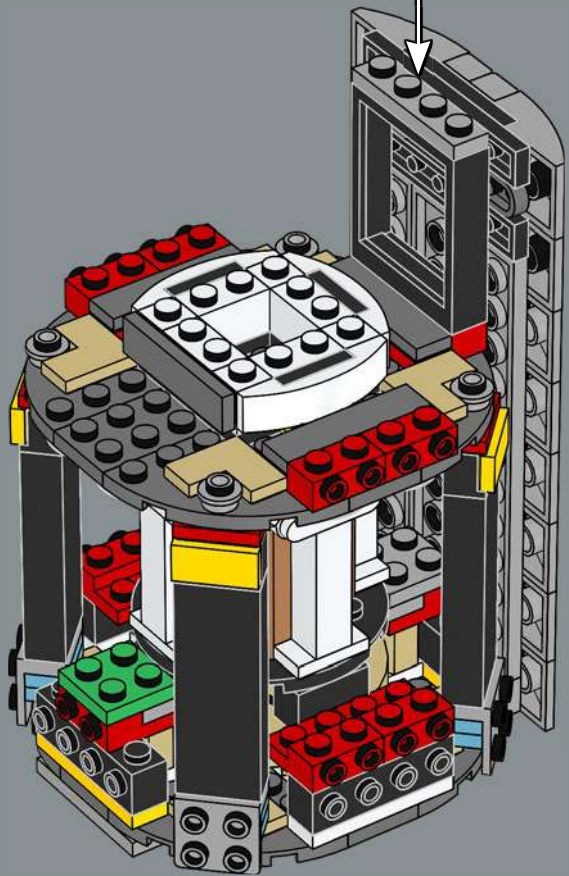
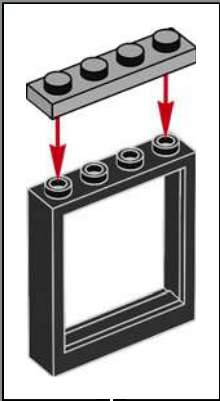


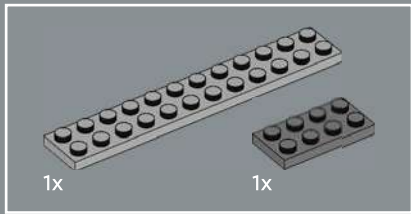
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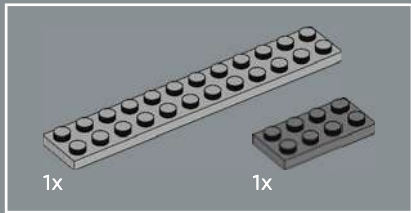
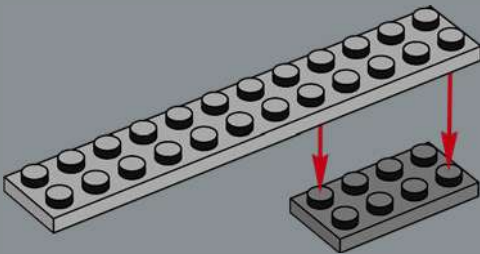


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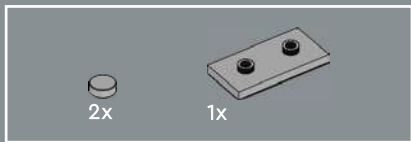
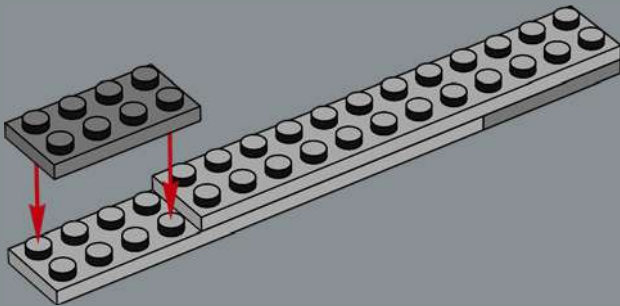




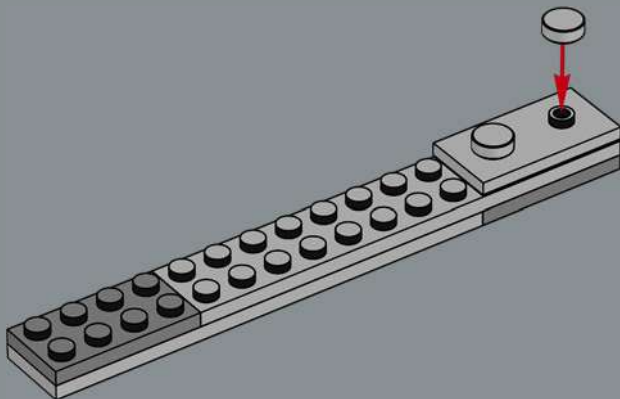
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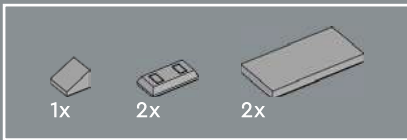


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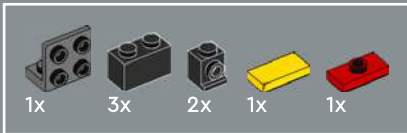
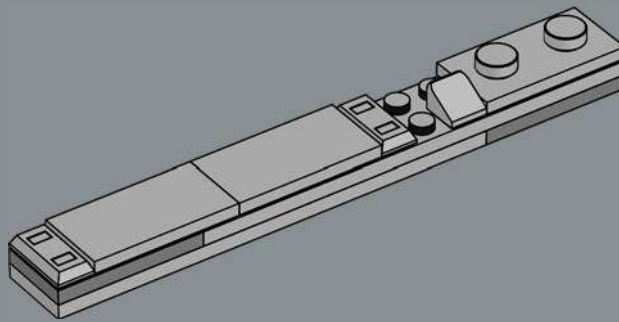


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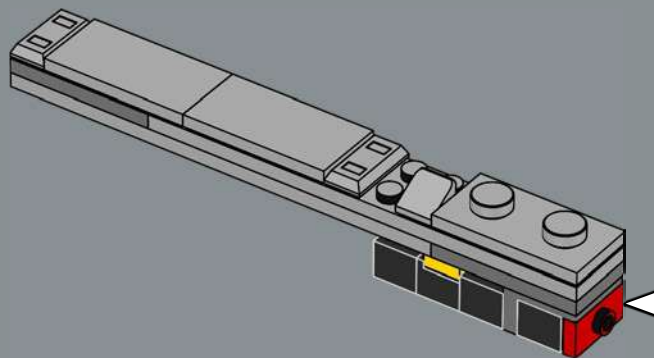
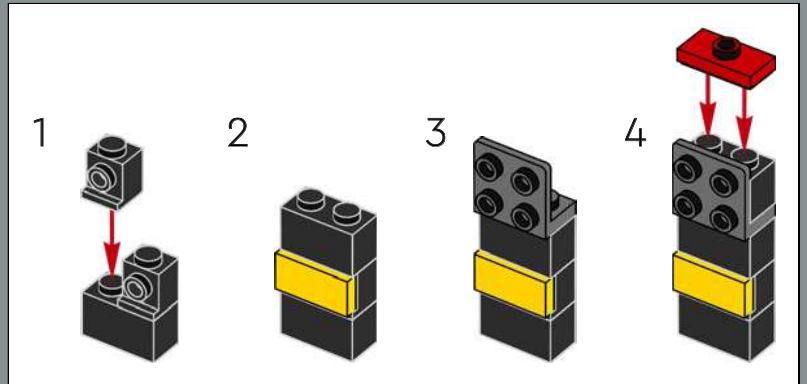


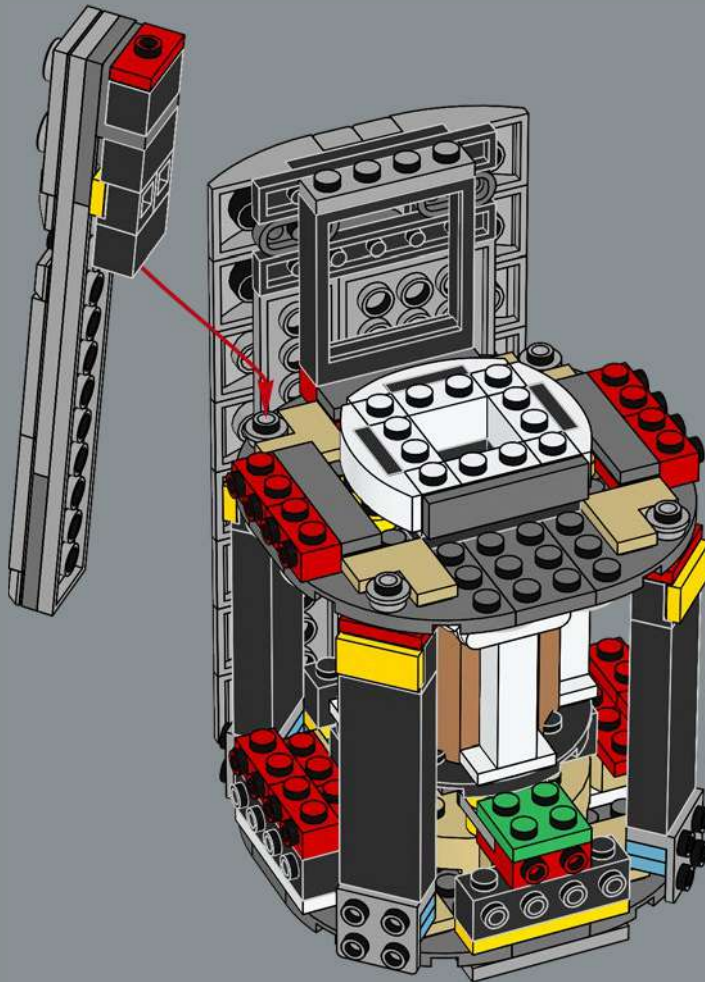


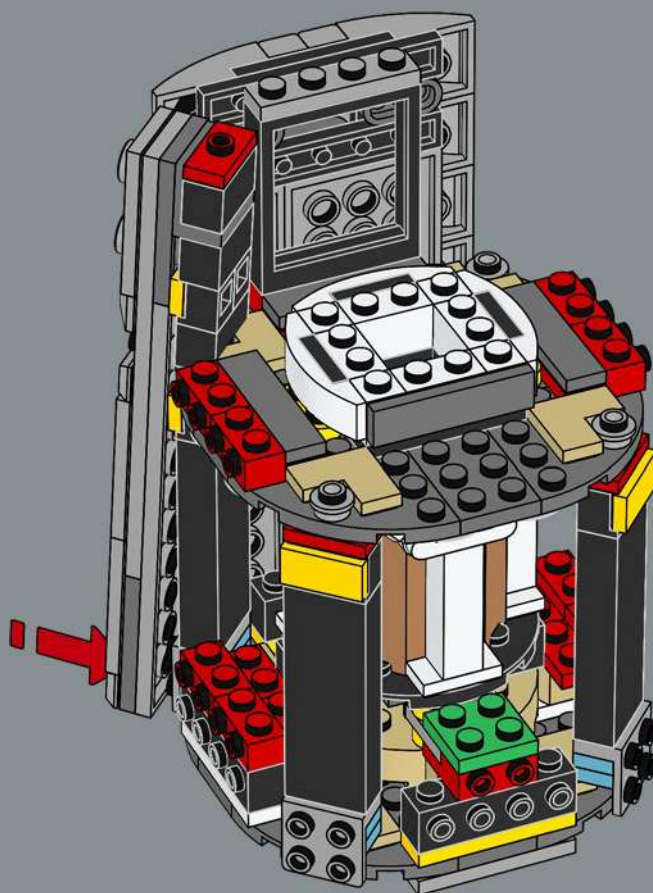
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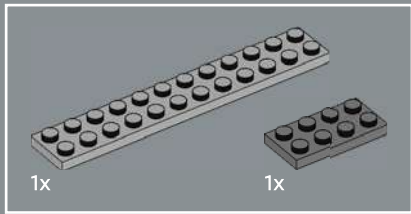


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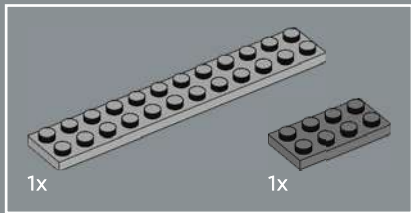
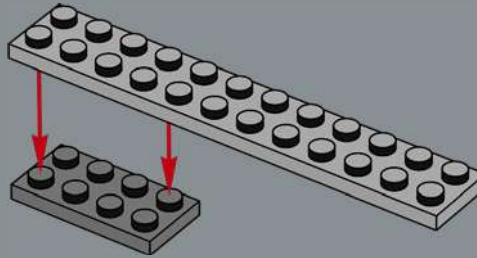




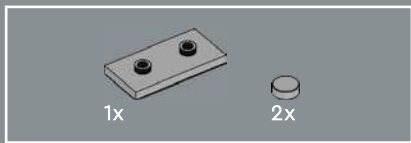
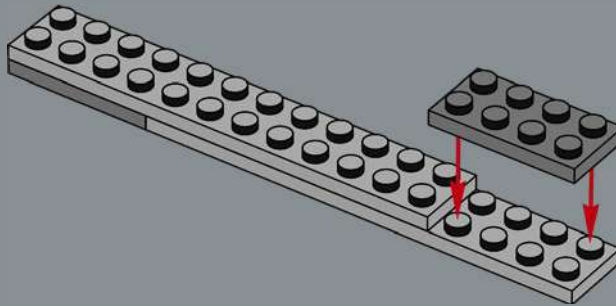




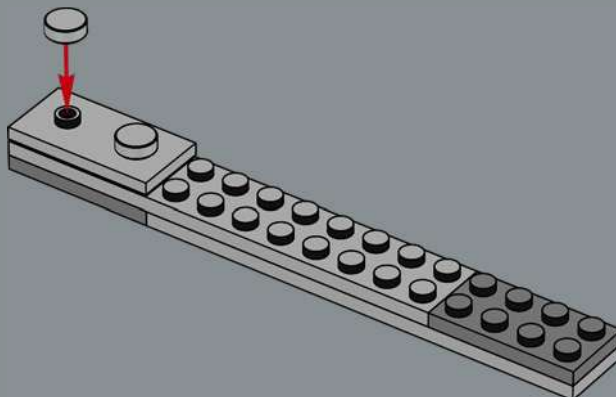
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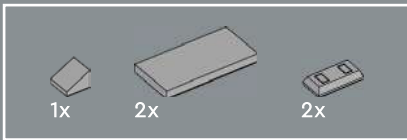


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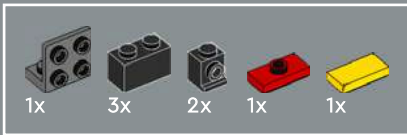
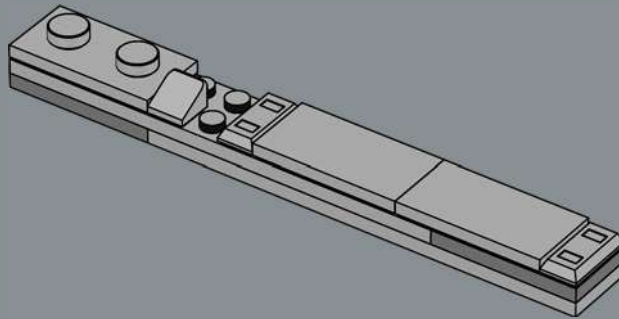


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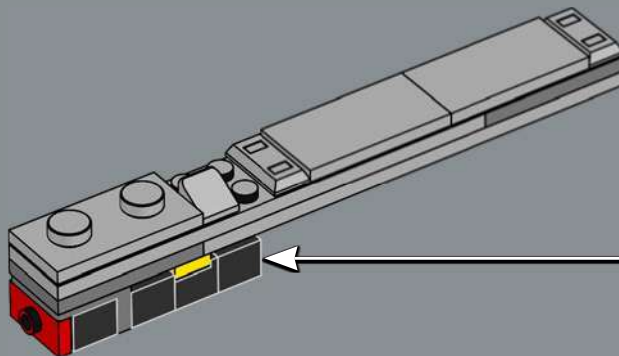
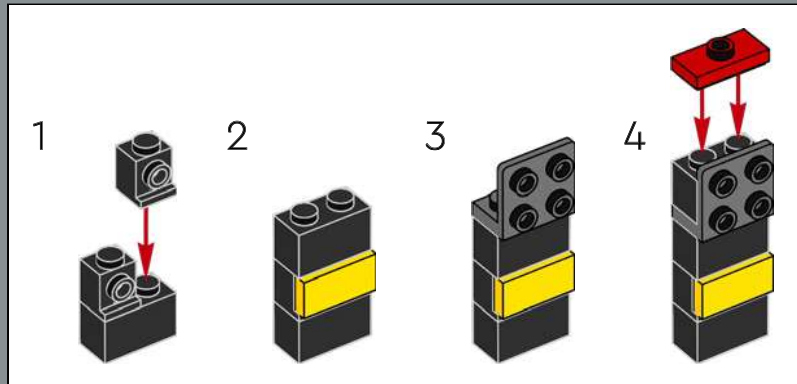


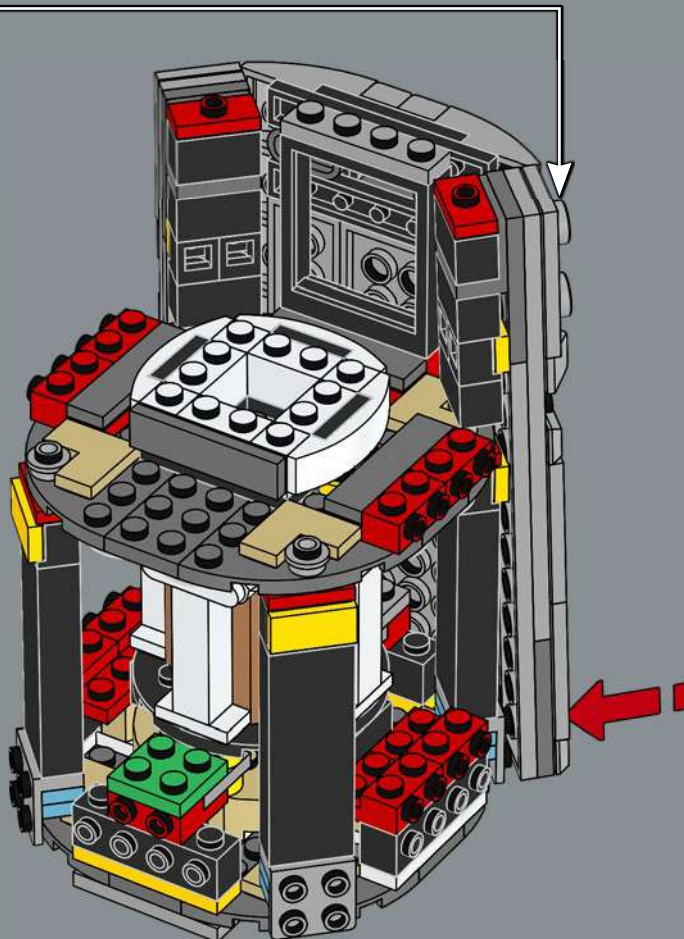


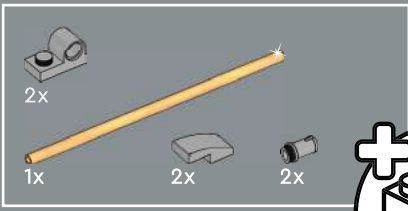
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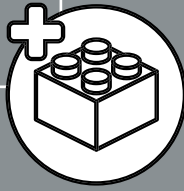
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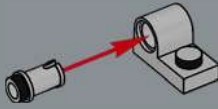




99



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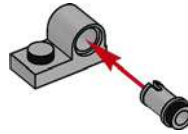
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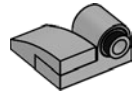
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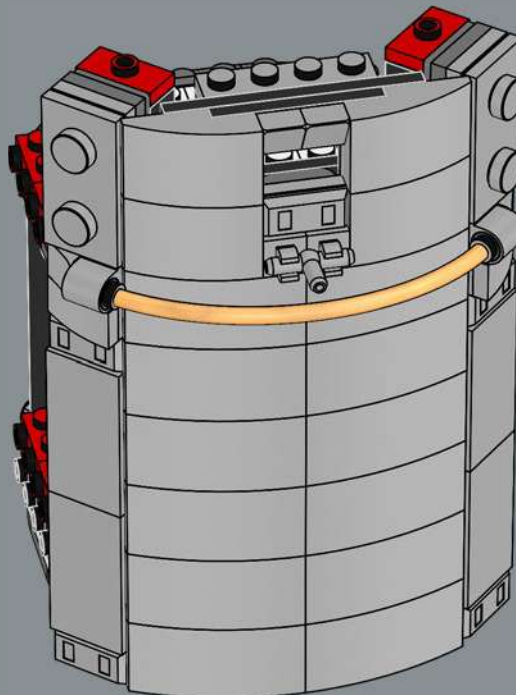
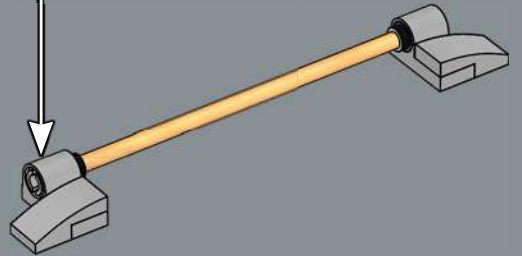
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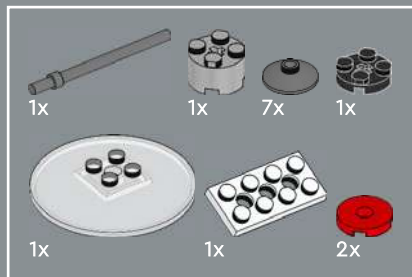


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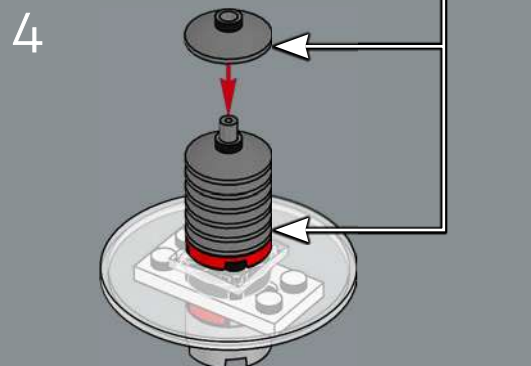
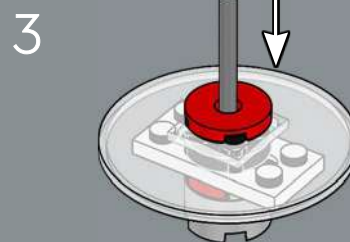
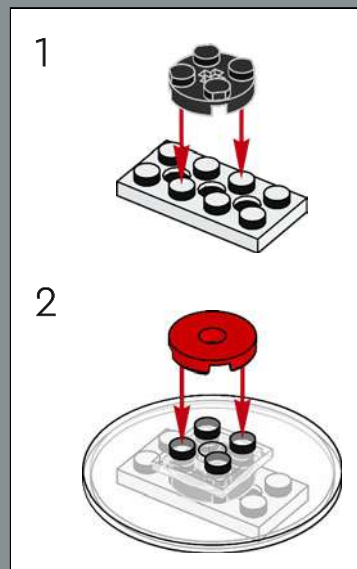
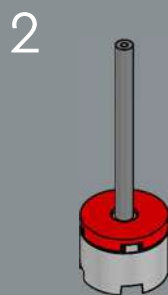
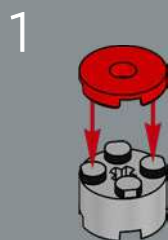


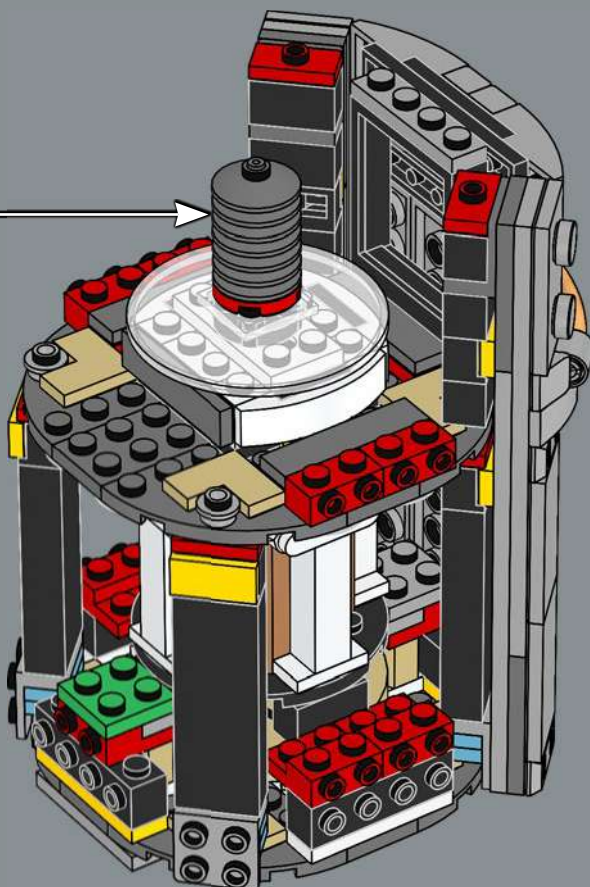
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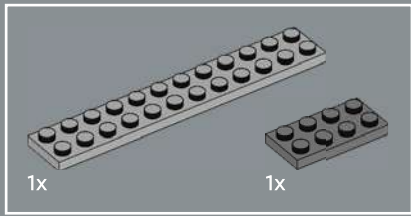




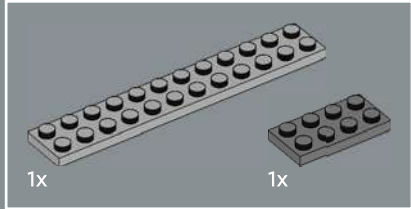
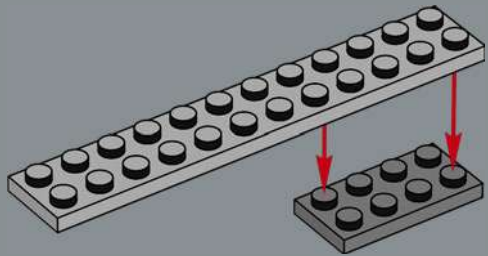
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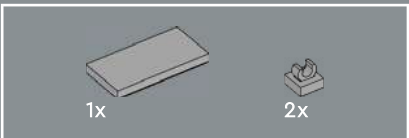
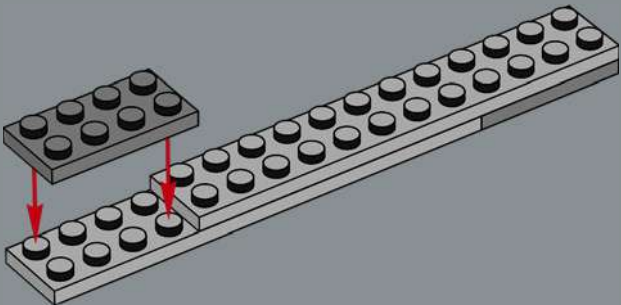




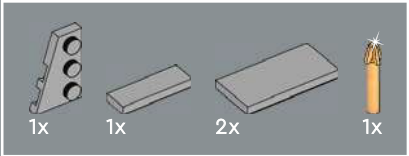
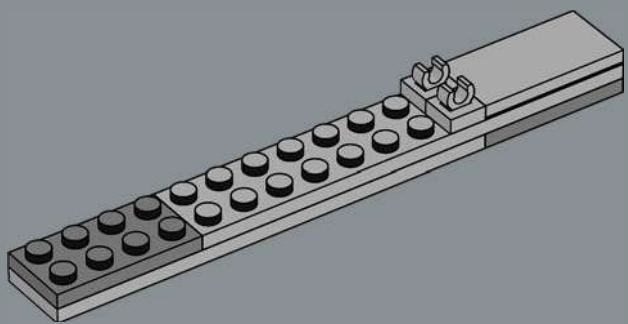
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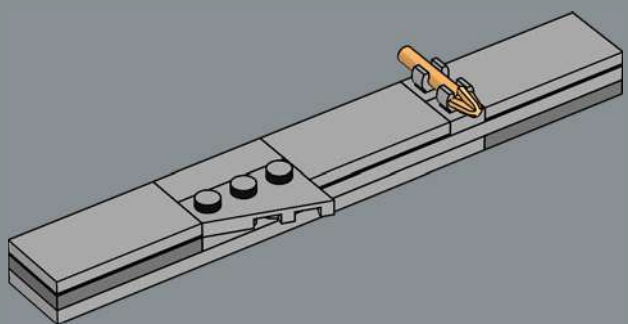
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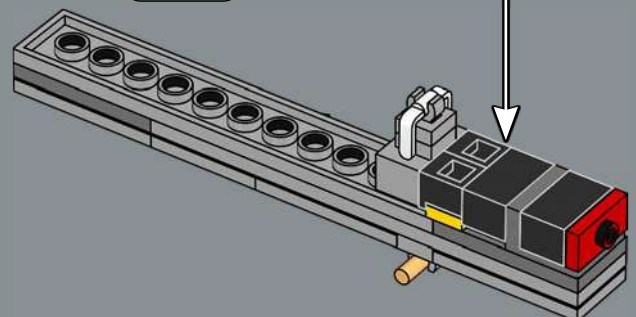
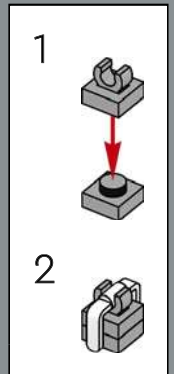
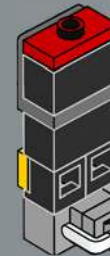
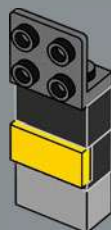
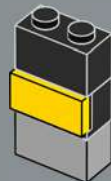
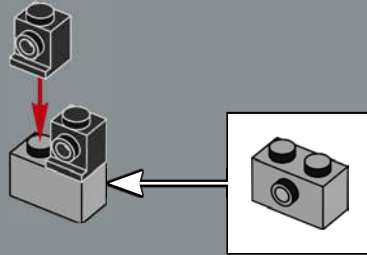


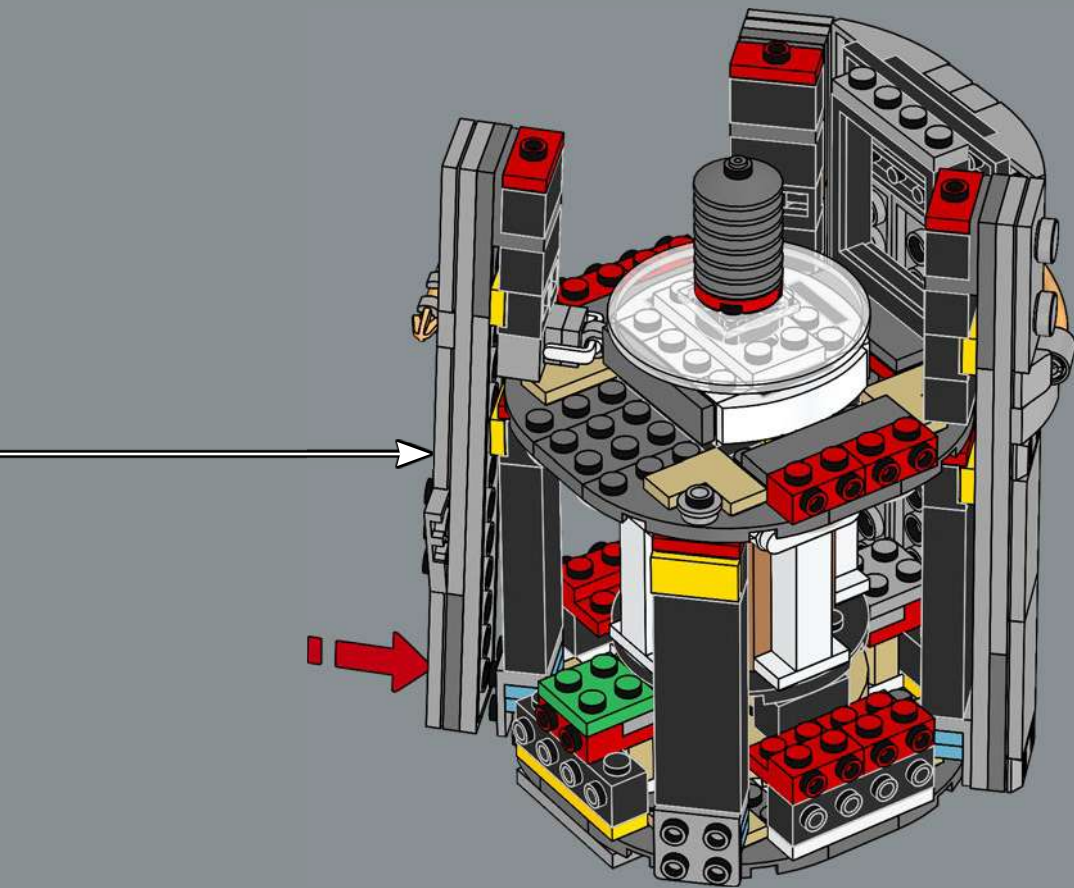
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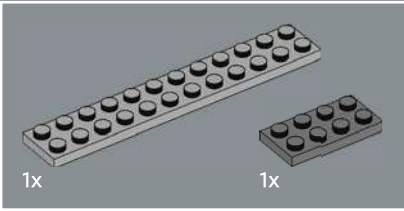
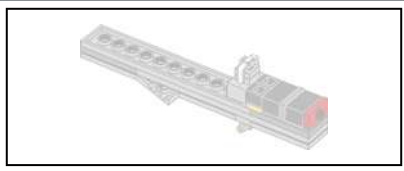


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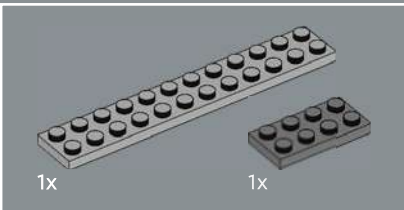
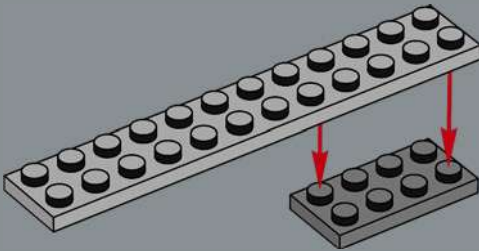




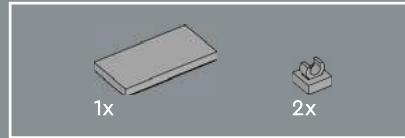
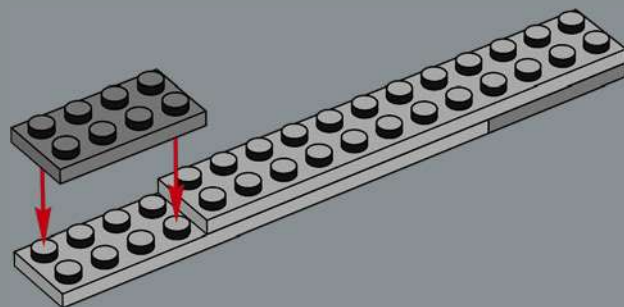




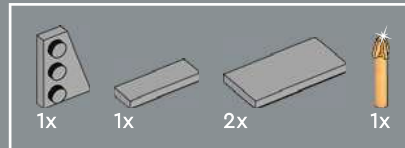
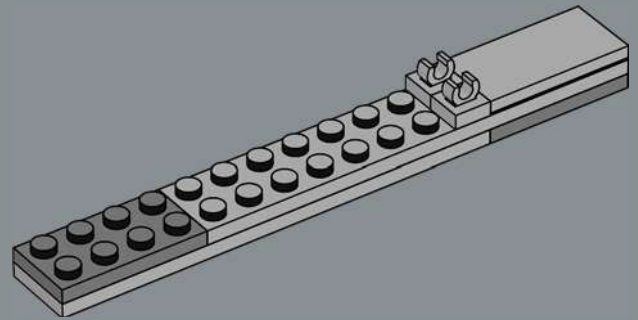
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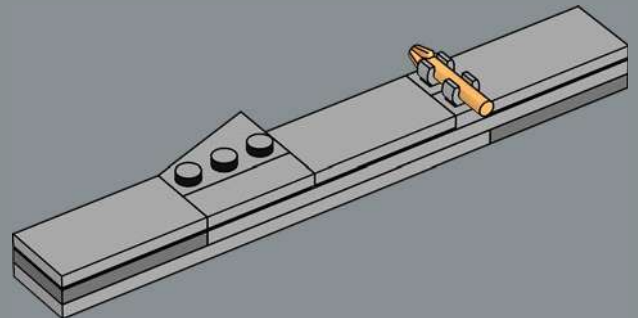
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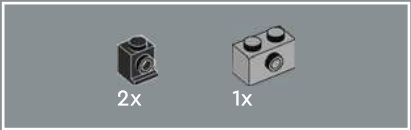


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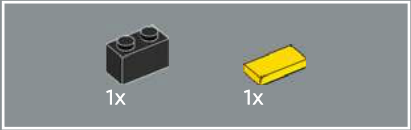
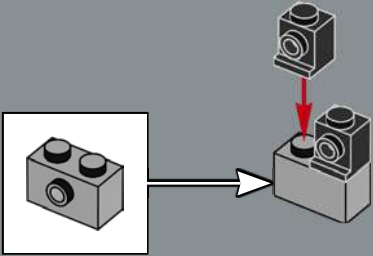


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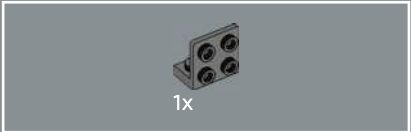
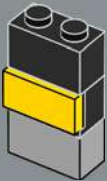




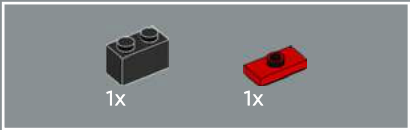
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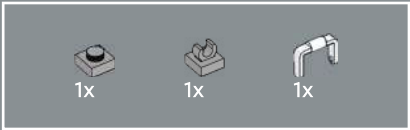
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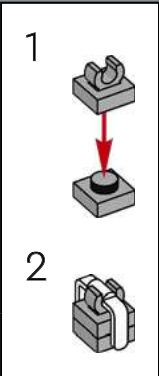
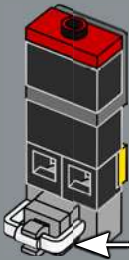
118



119



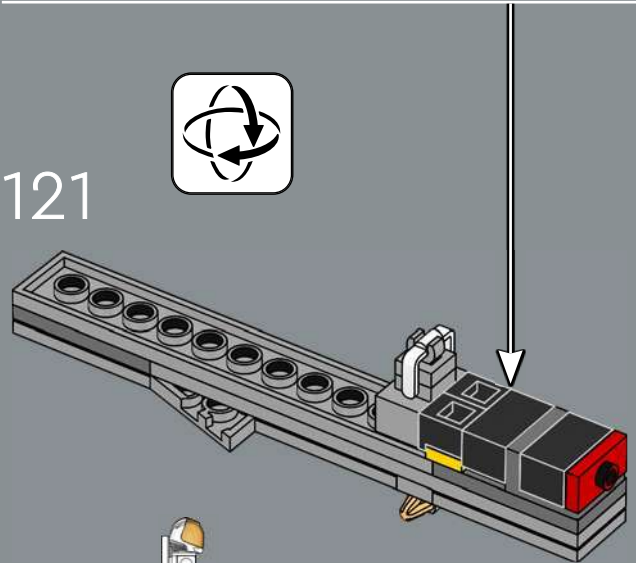
120



1



2



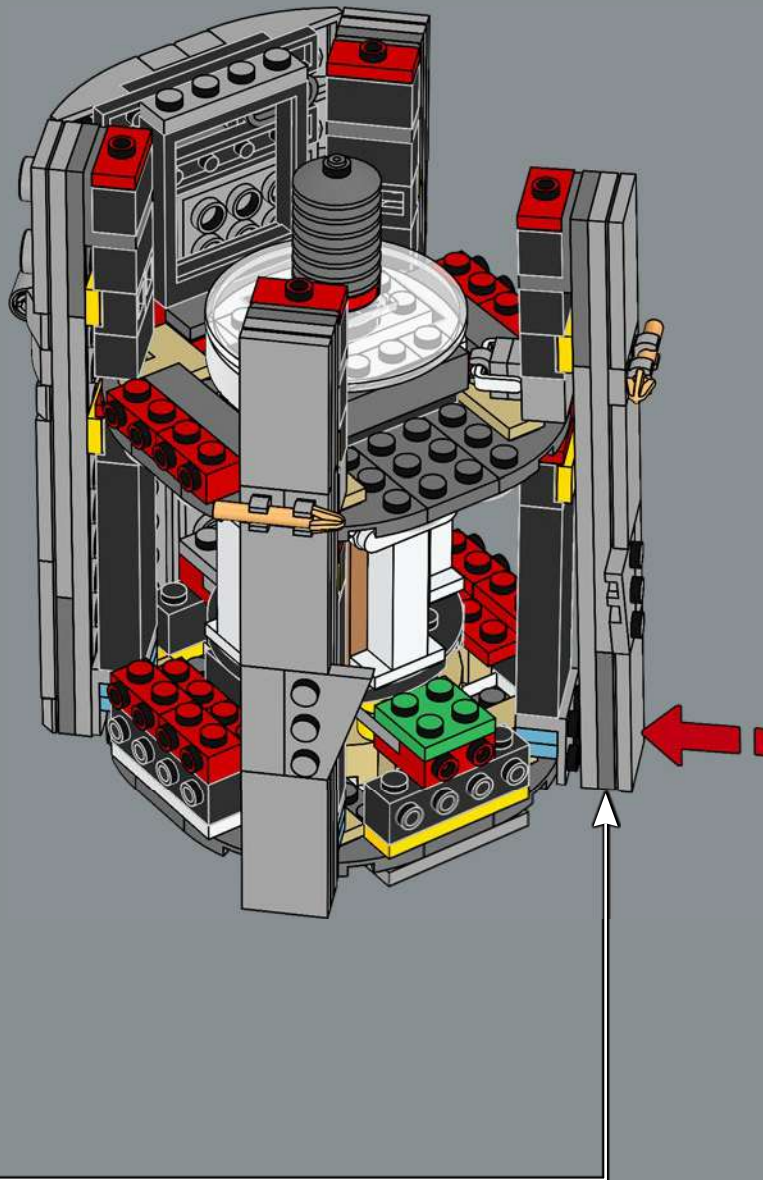
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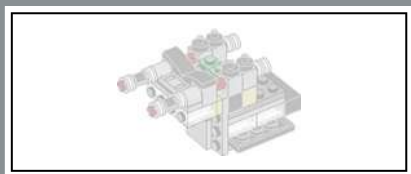


Lost in space? A GPS covering the universe probably won't be ready for a while... To date, a mere 0.1% of the sky has been observed.

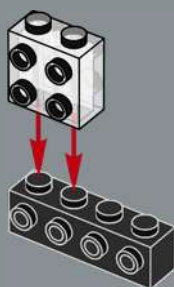


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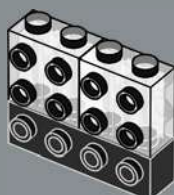




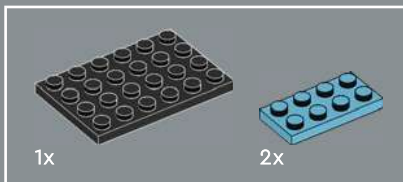
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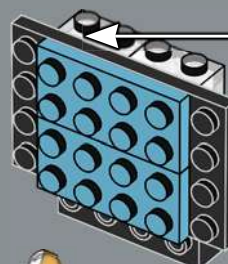
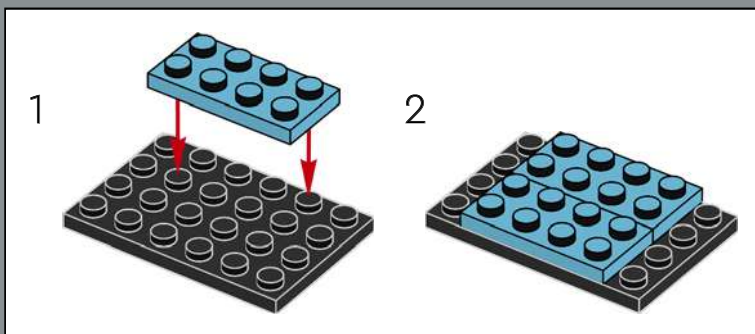
124



125

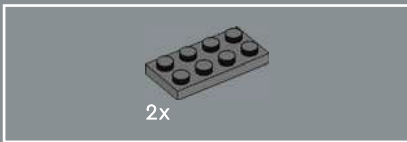
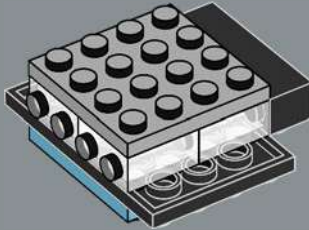


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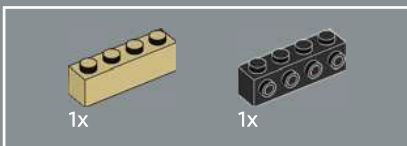
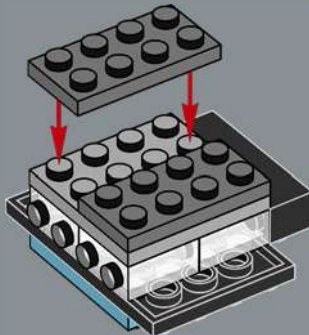




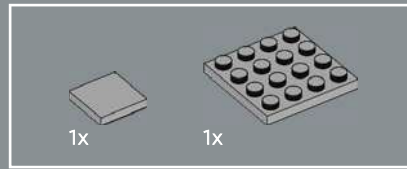
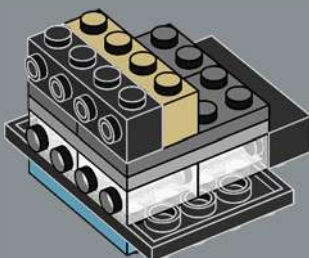
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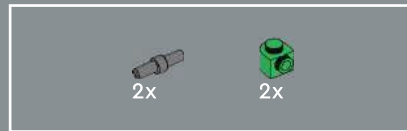
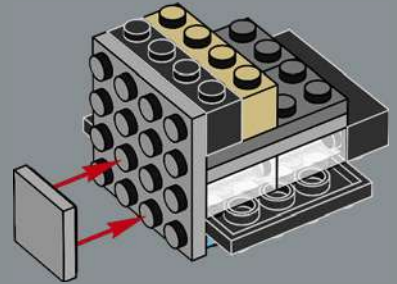
128



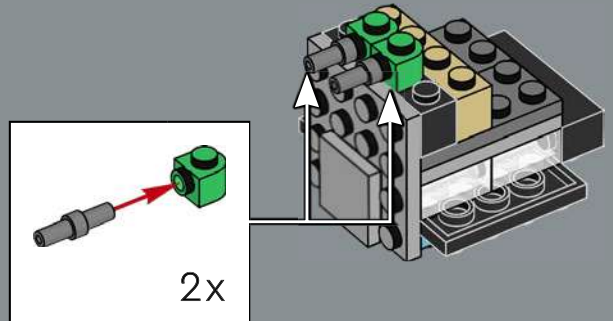
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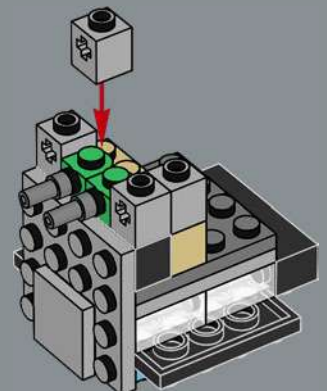
130



131



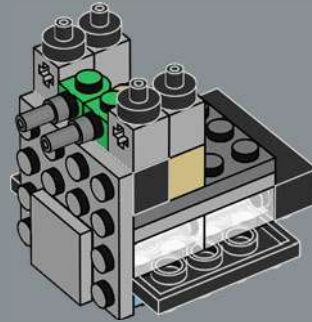
132





4x

133



2x



1x



2x



2x



2x



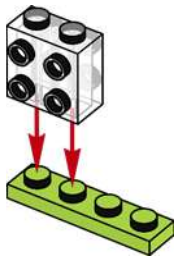
1x



2x

134

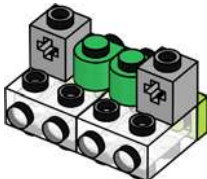
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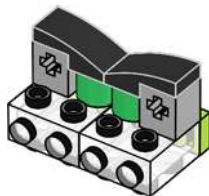
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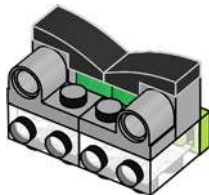
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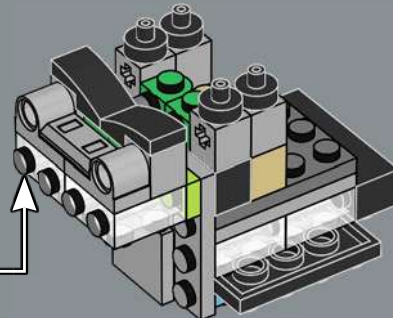
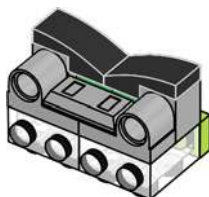
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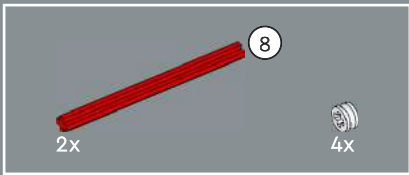


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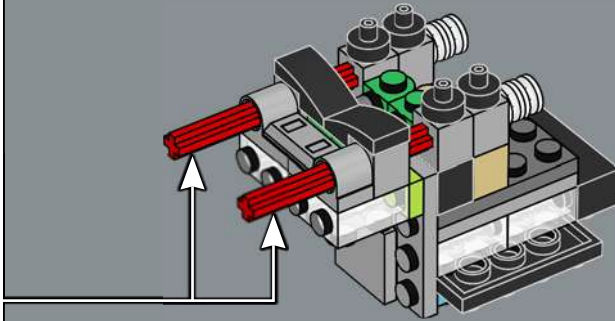
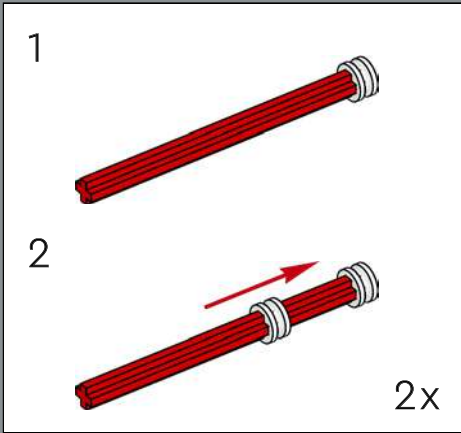


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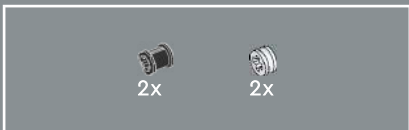
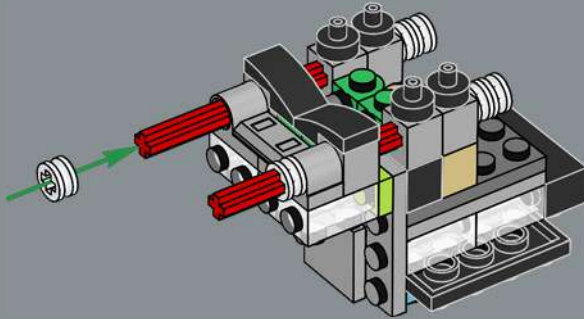




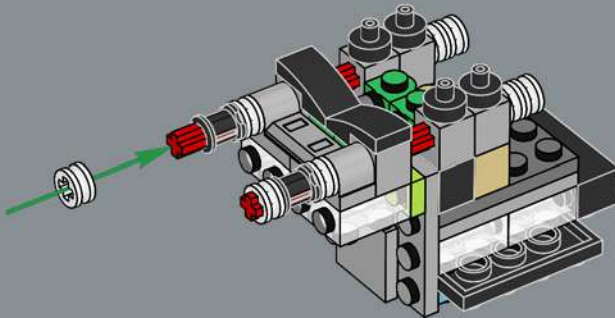
135



136



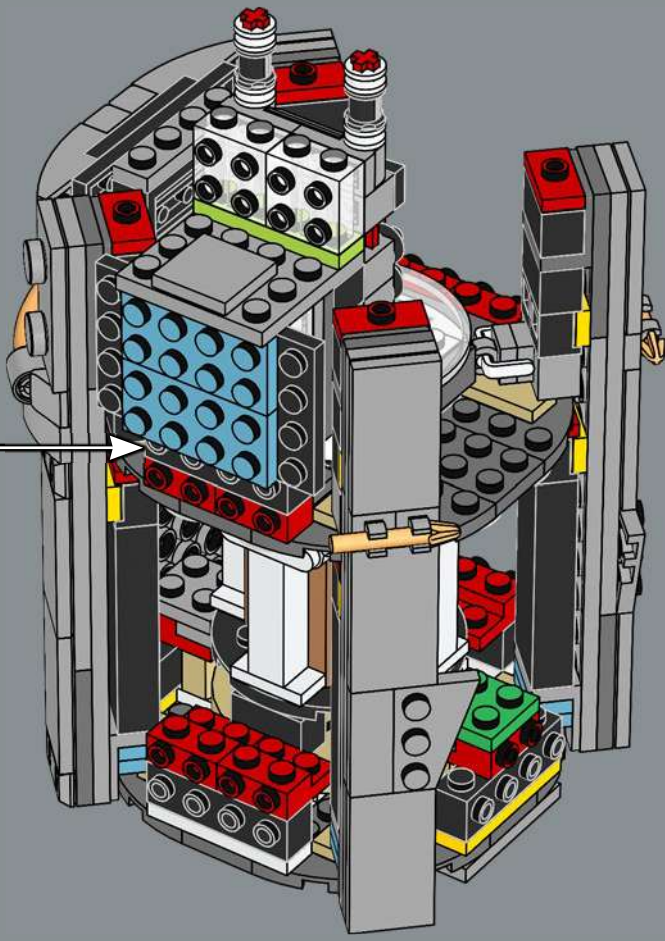
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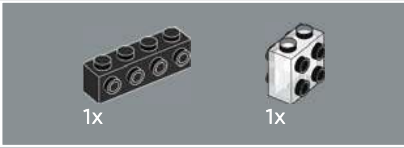
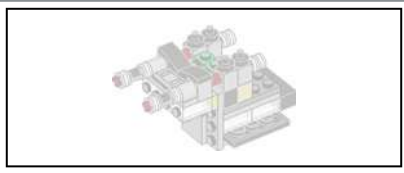


Orbiting at about 483 km/300 mi. above Earth,
Hubble's orbital speed averages 27,000 kph/17,000 mph.

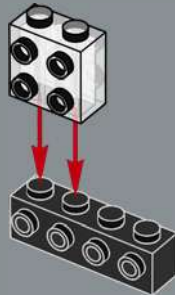


138

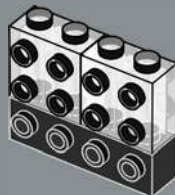




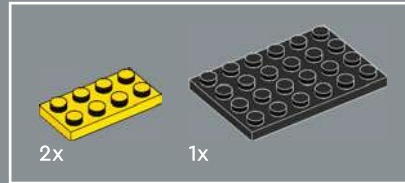
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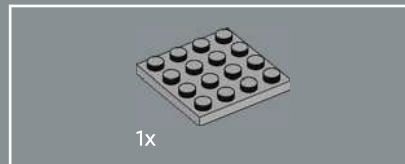
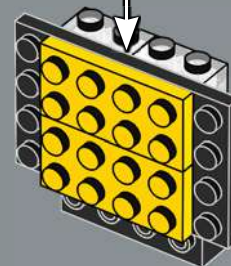
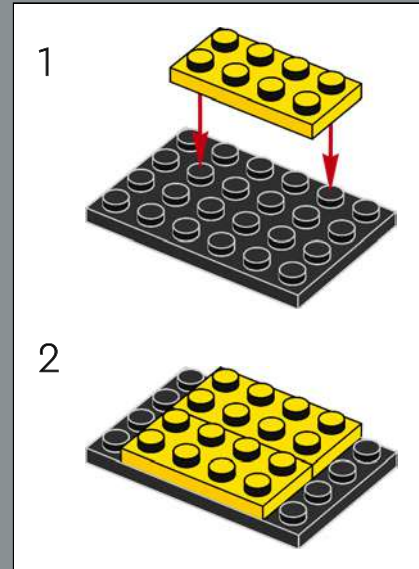
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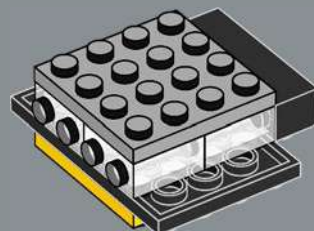
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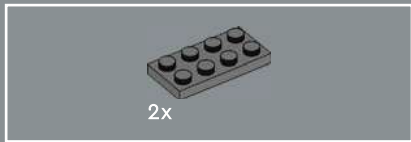


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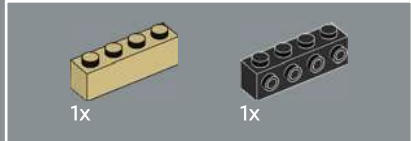
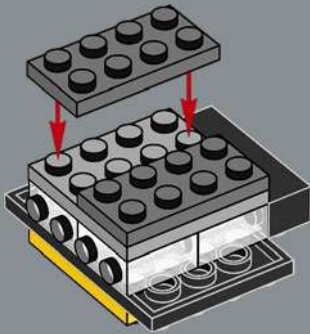


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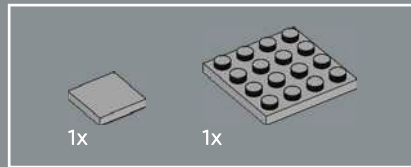
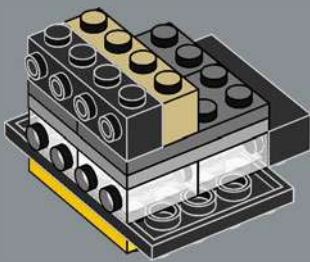




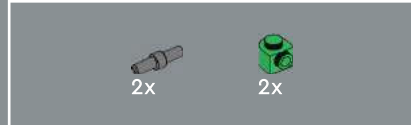
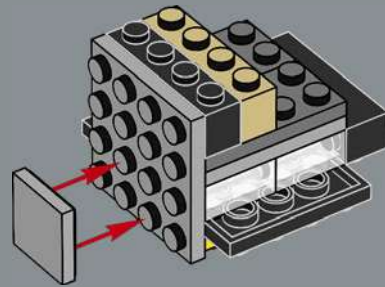
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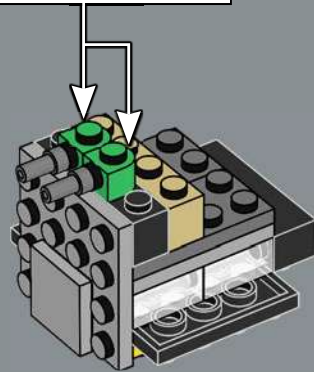
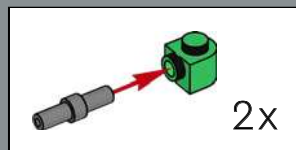
145



146

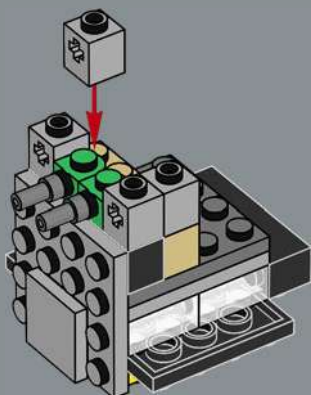


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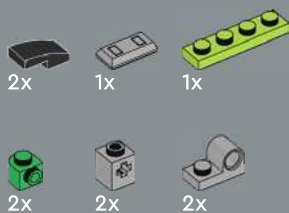
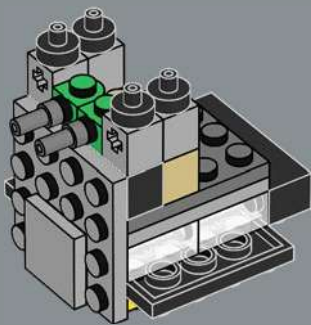




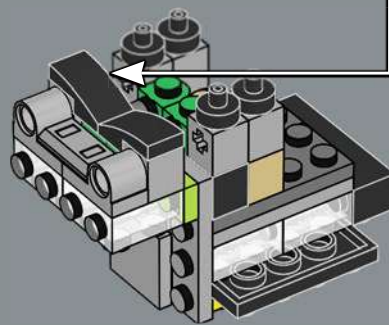
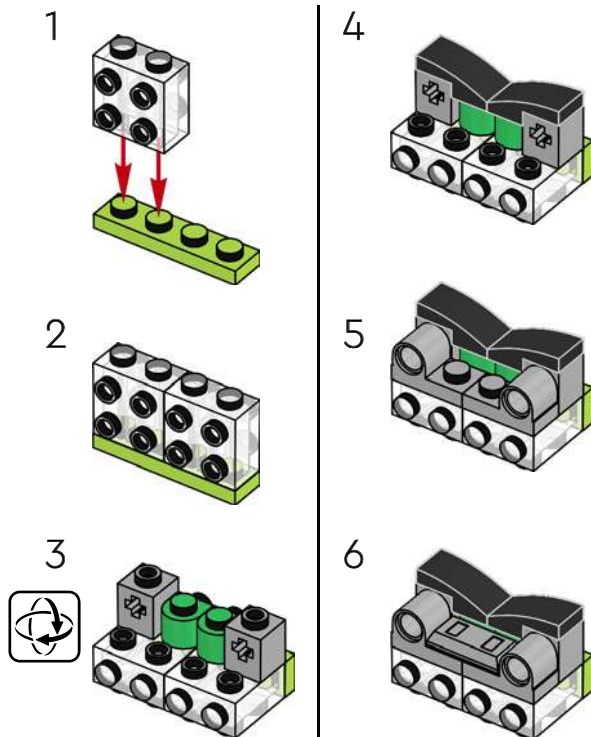
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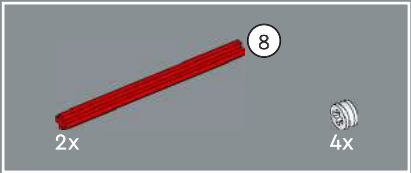


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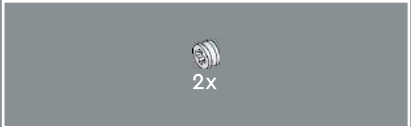
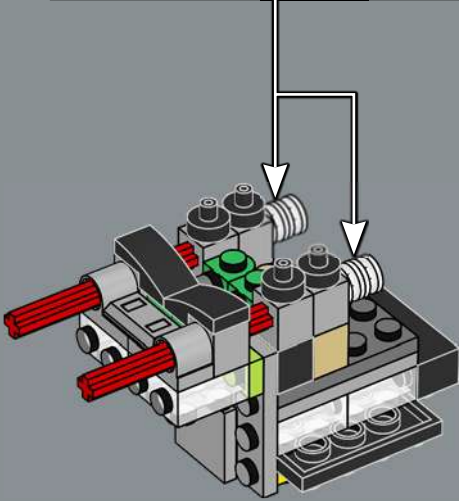
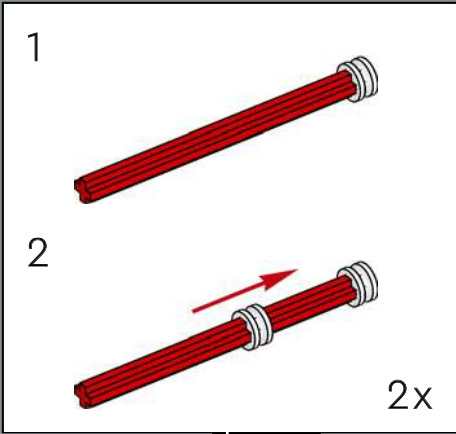


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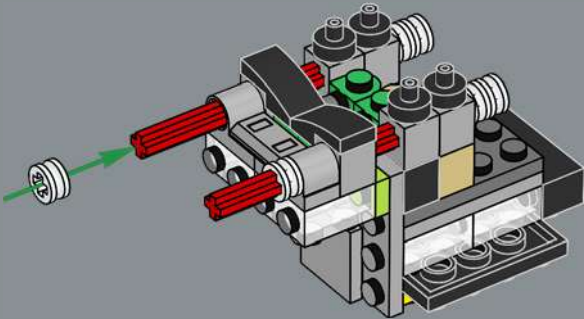




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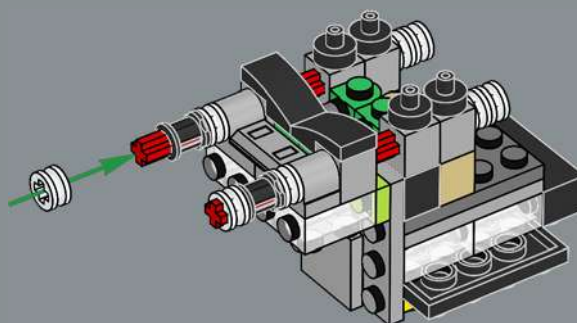


152

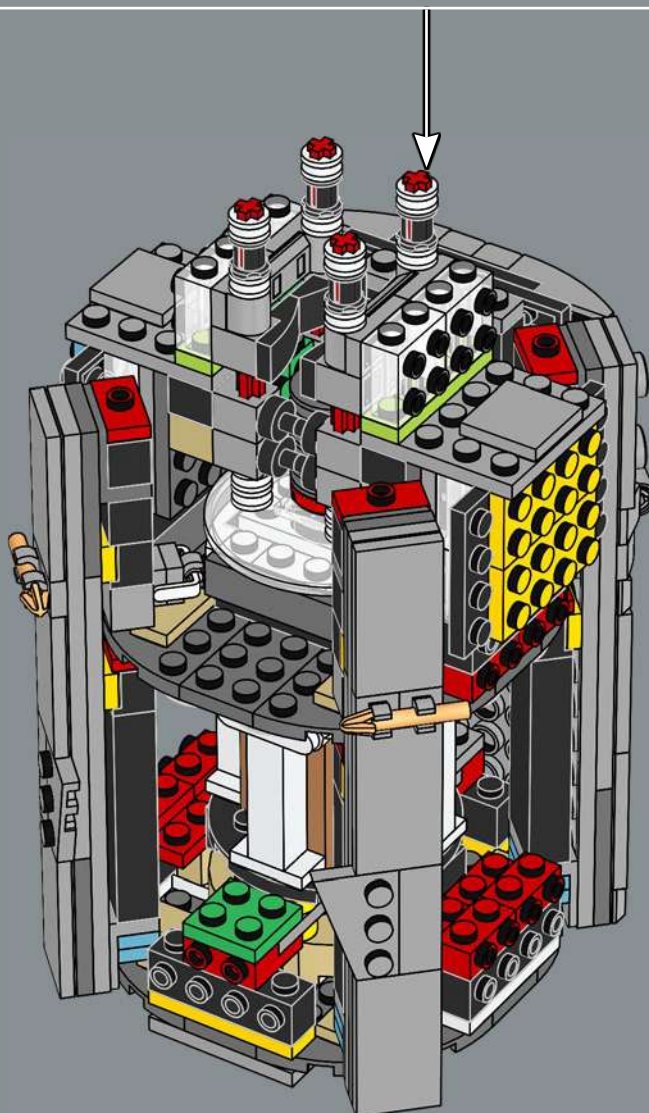


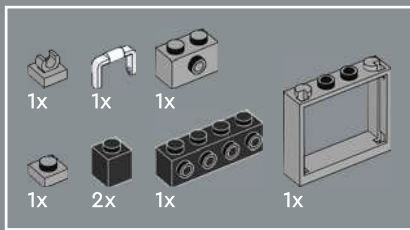
2x 2x

153

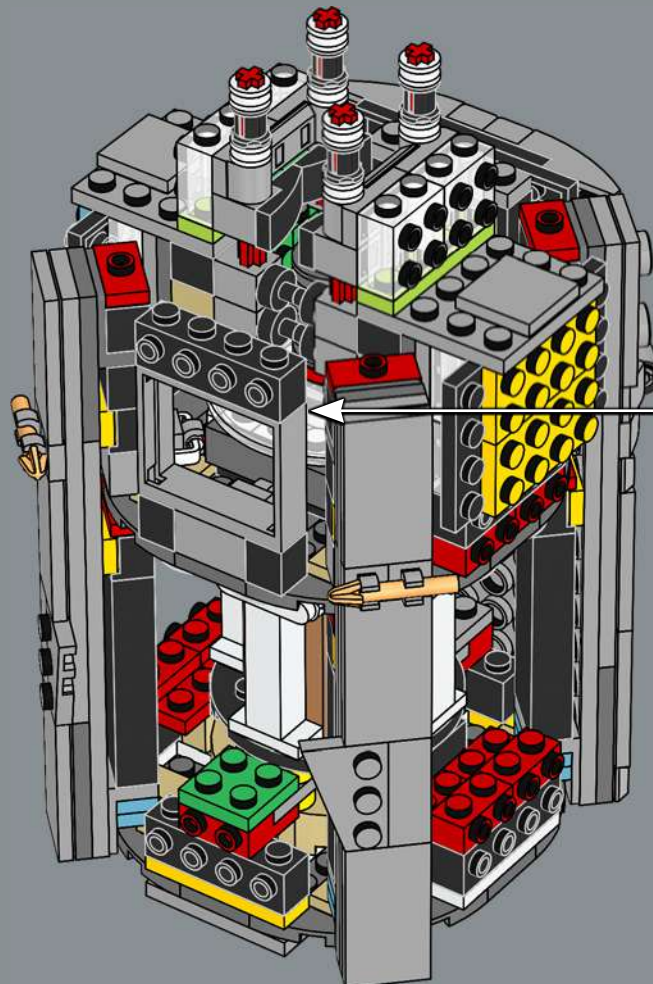
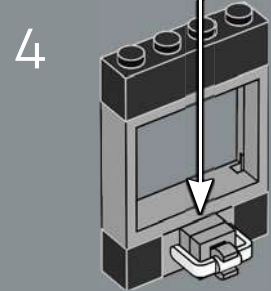
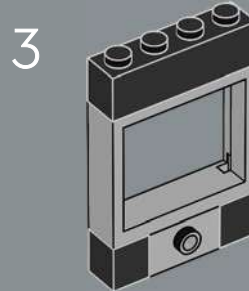
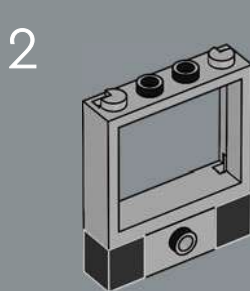
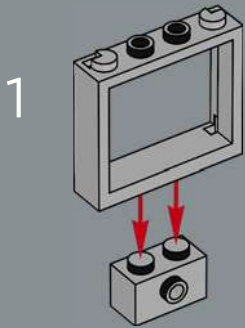
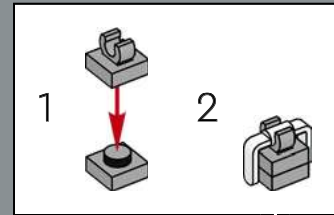


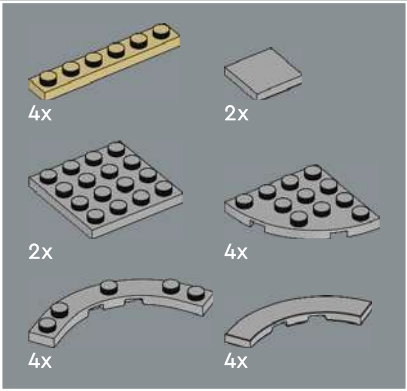
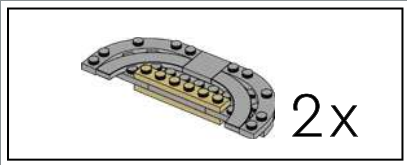
154





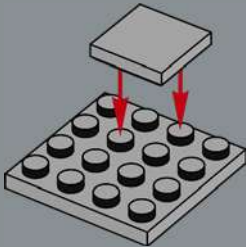
155



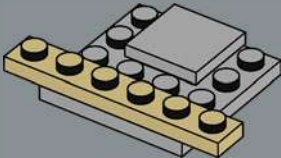


156

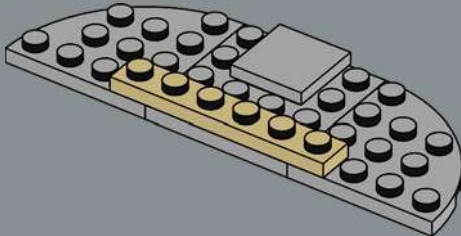
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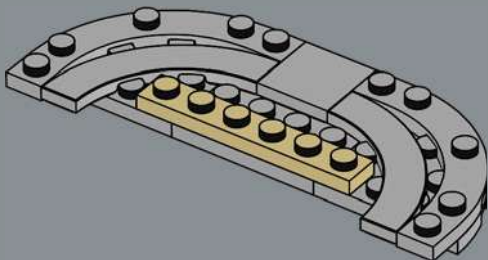
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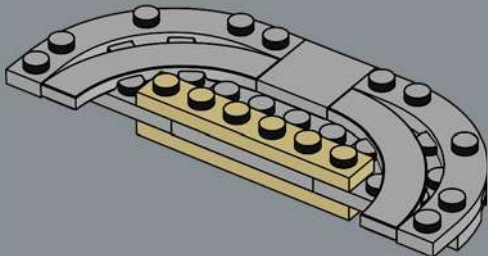
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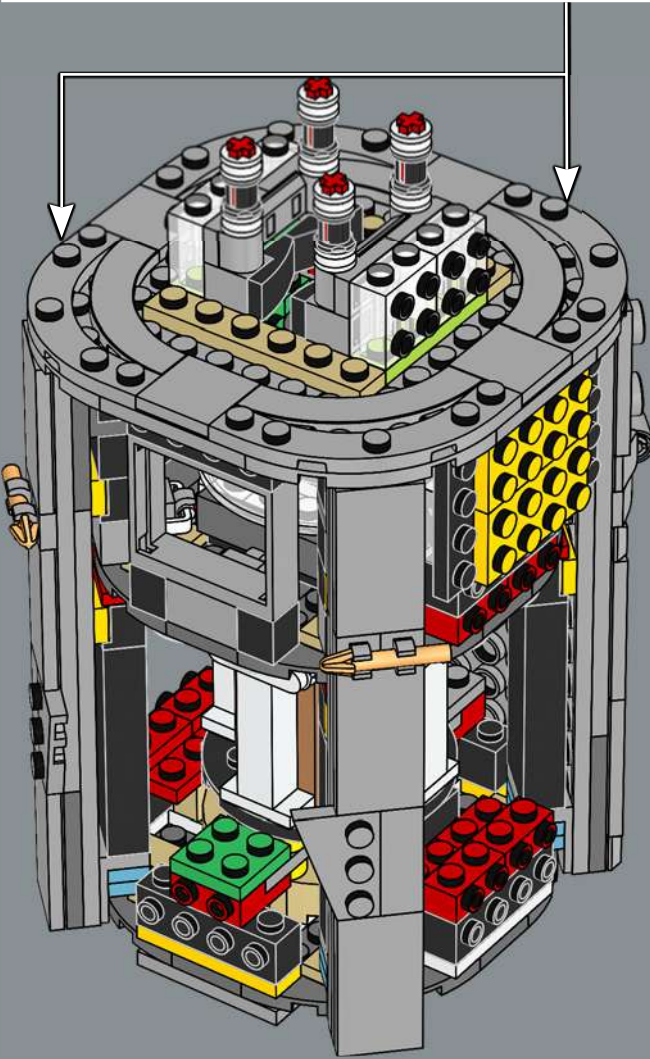
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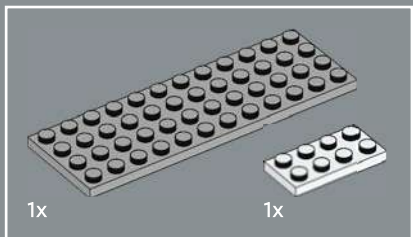
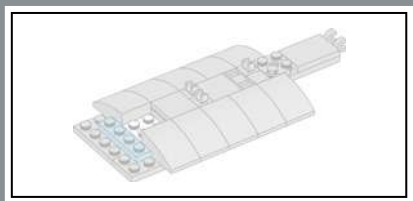


5

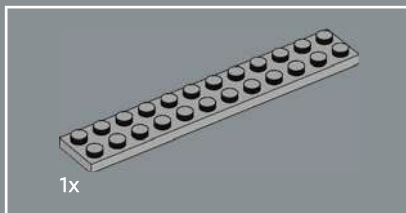
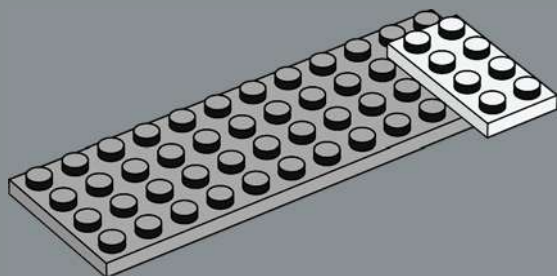


2x

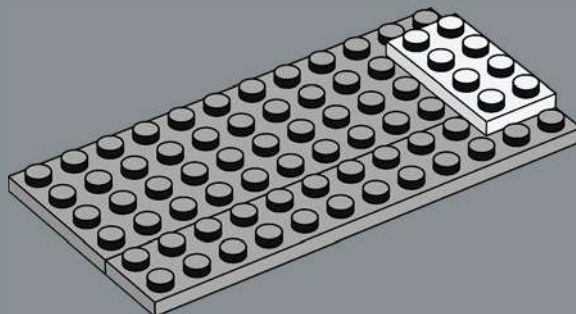




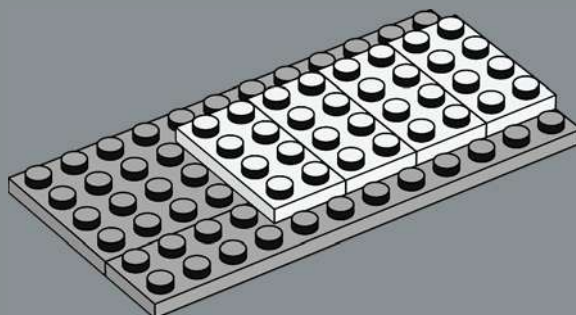
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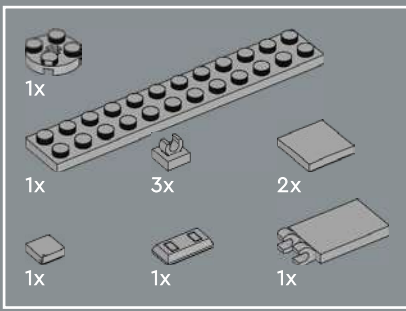


158

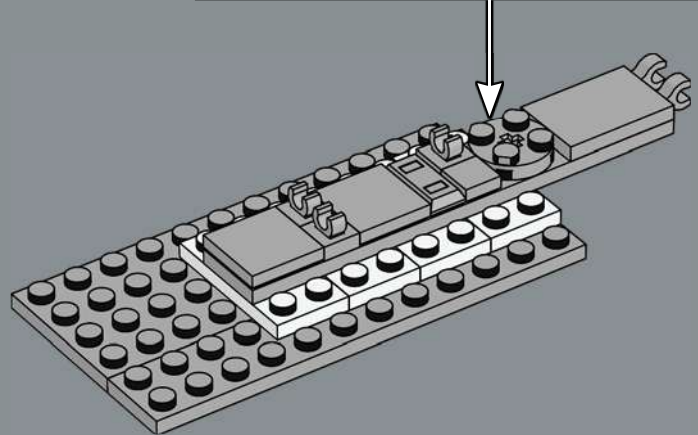
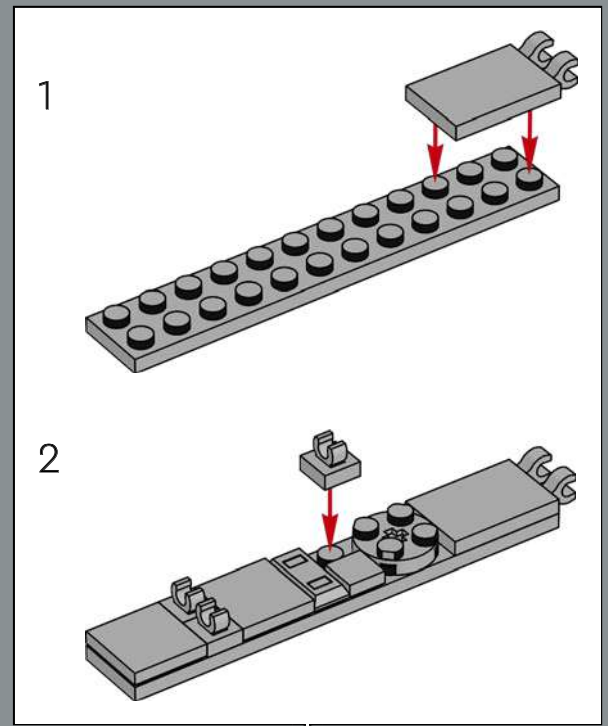


159

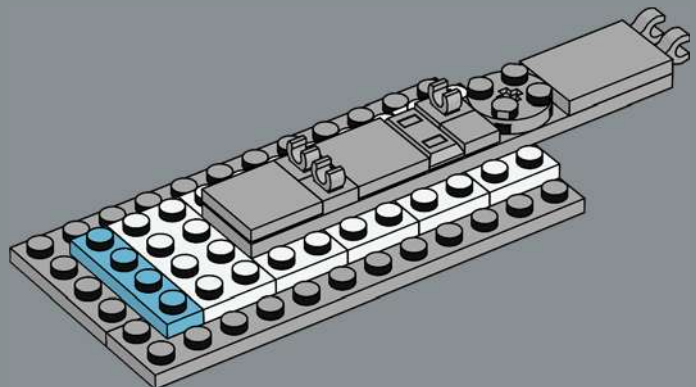


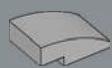


160



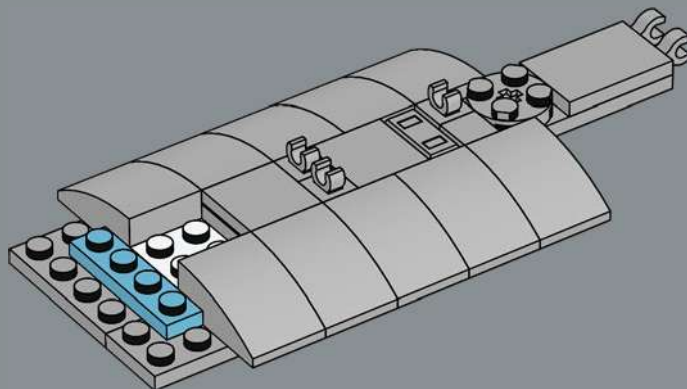
161



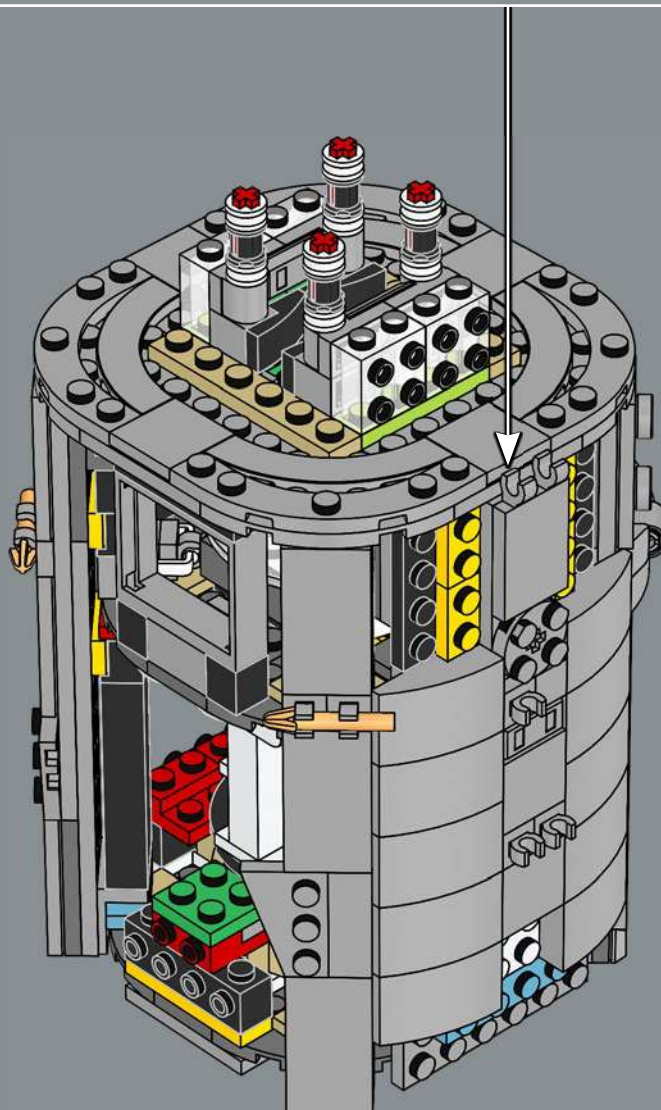


10x

162



163



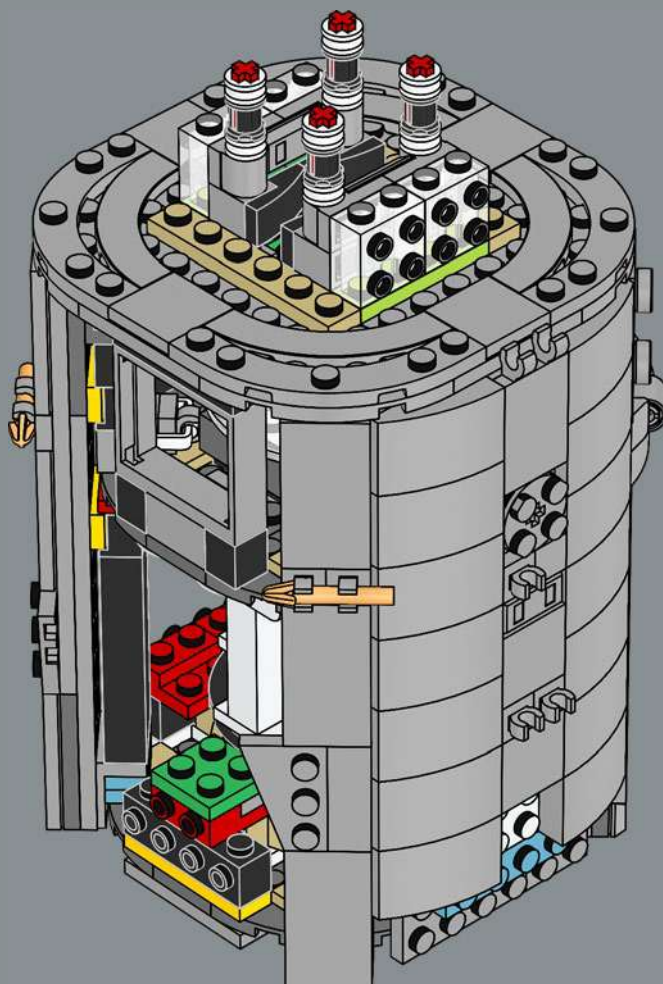


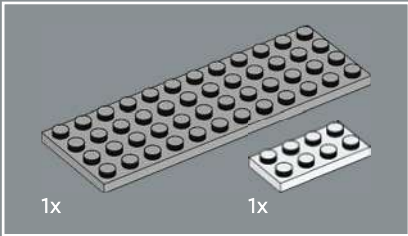
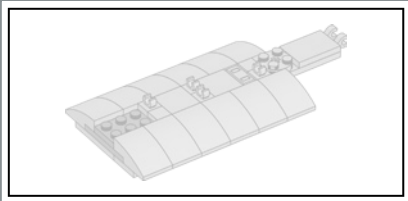
4x

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

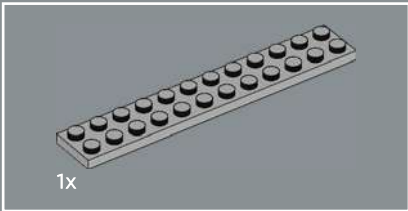
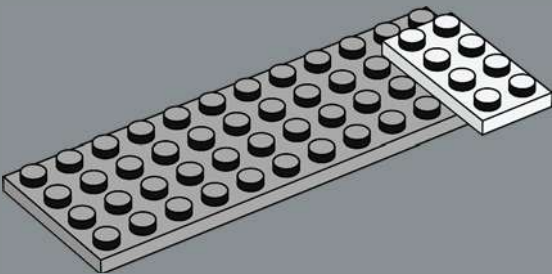


164

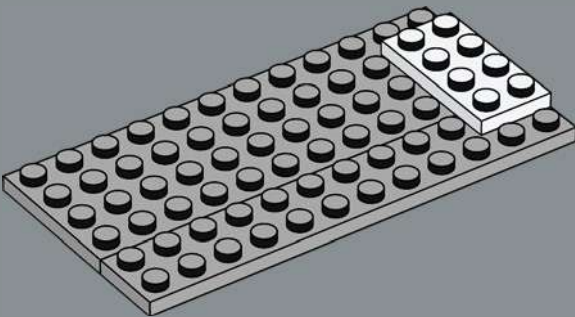




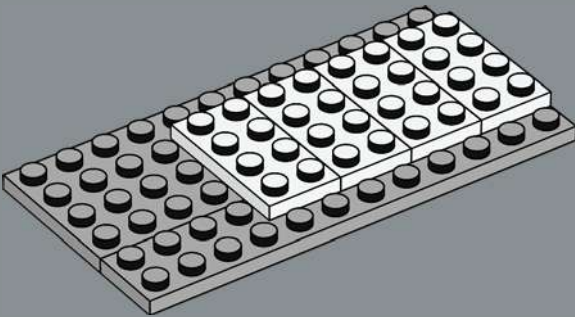
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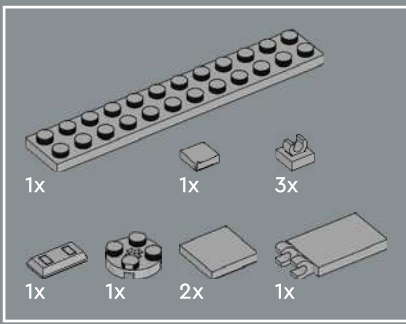


166

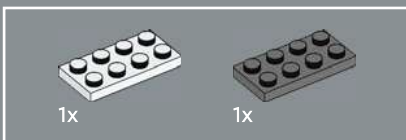
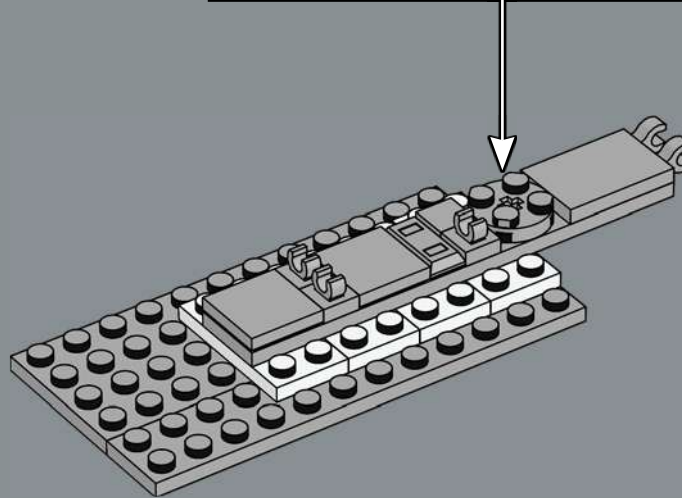
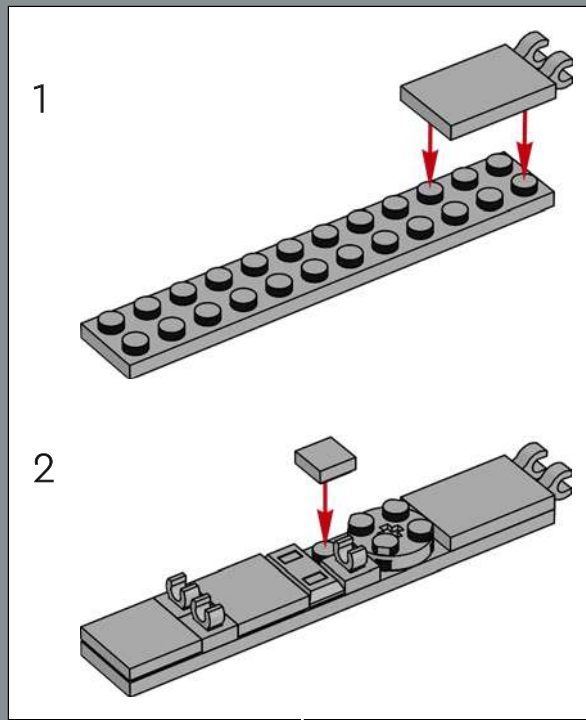


167

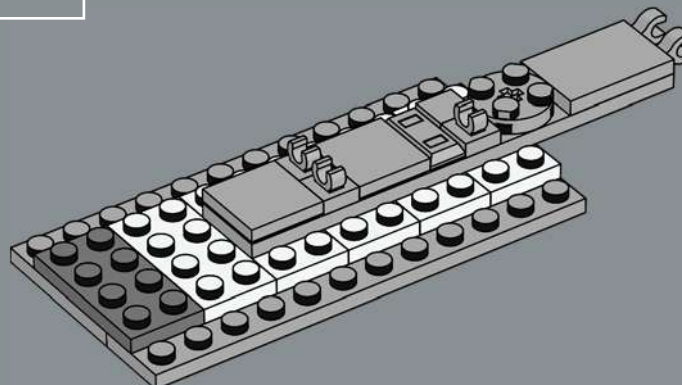




168



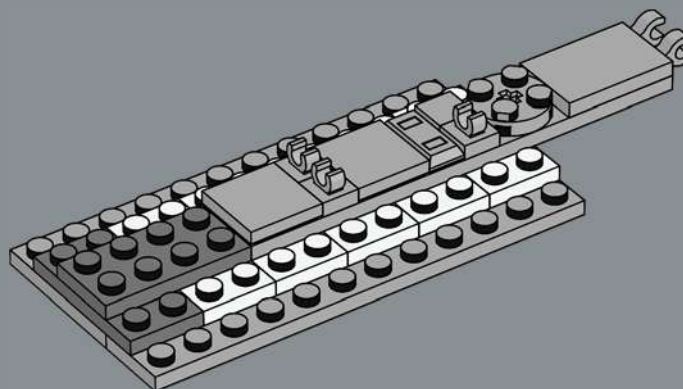
169





1x

170

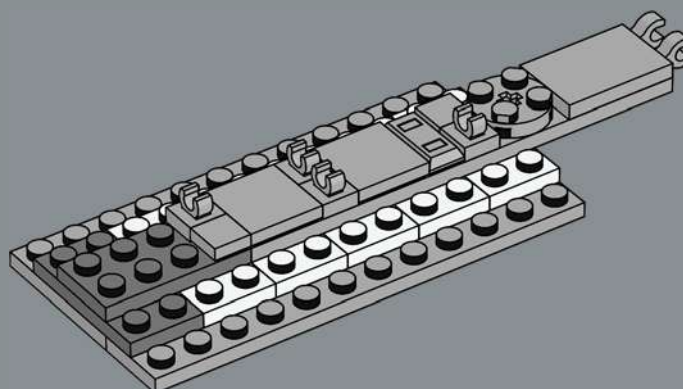


1x



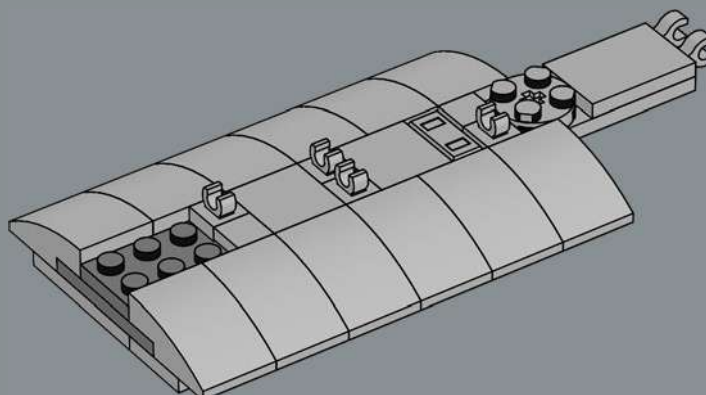
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171

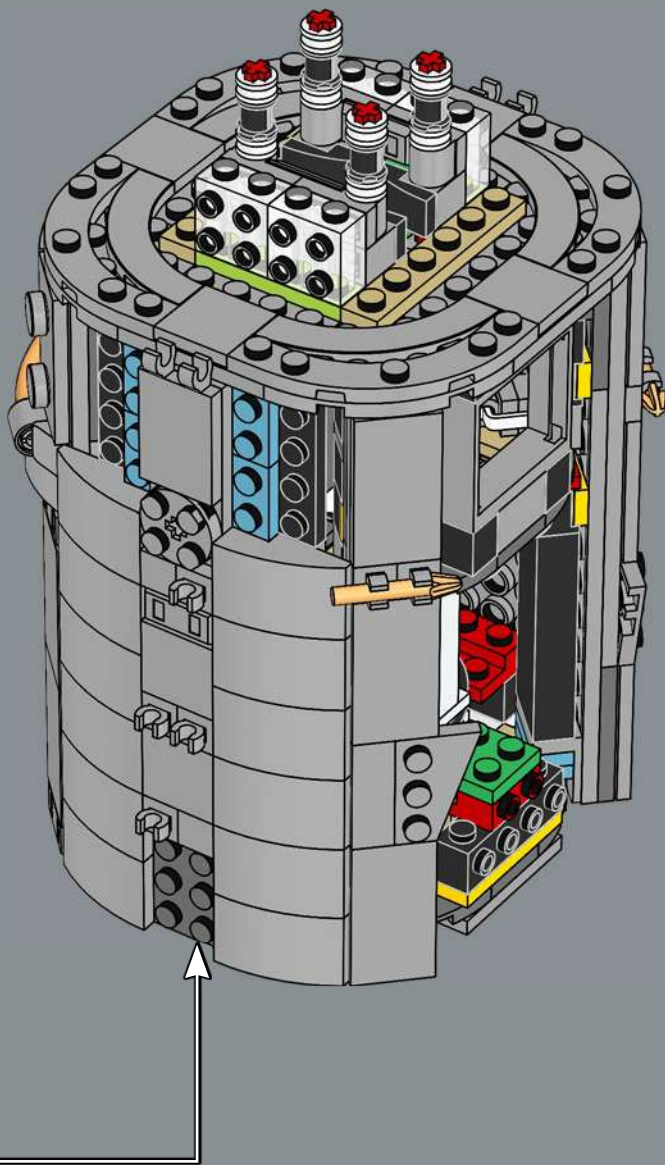


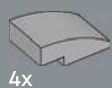
12x

172



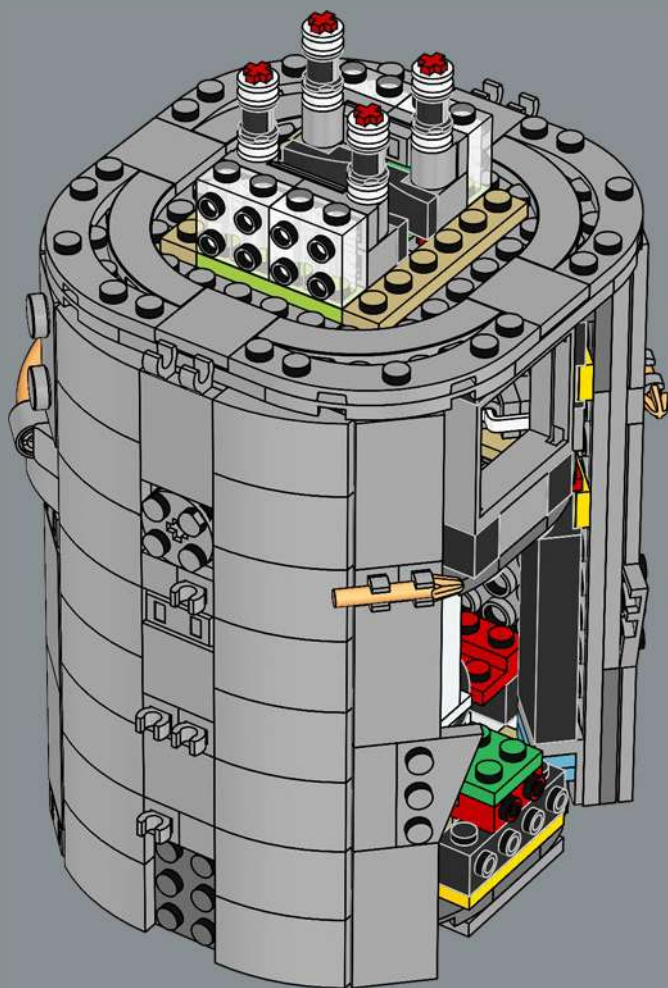
173

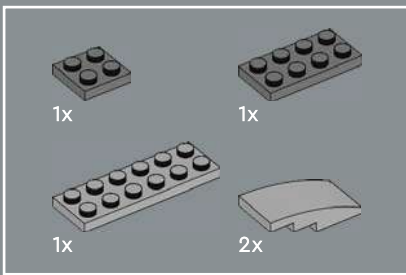




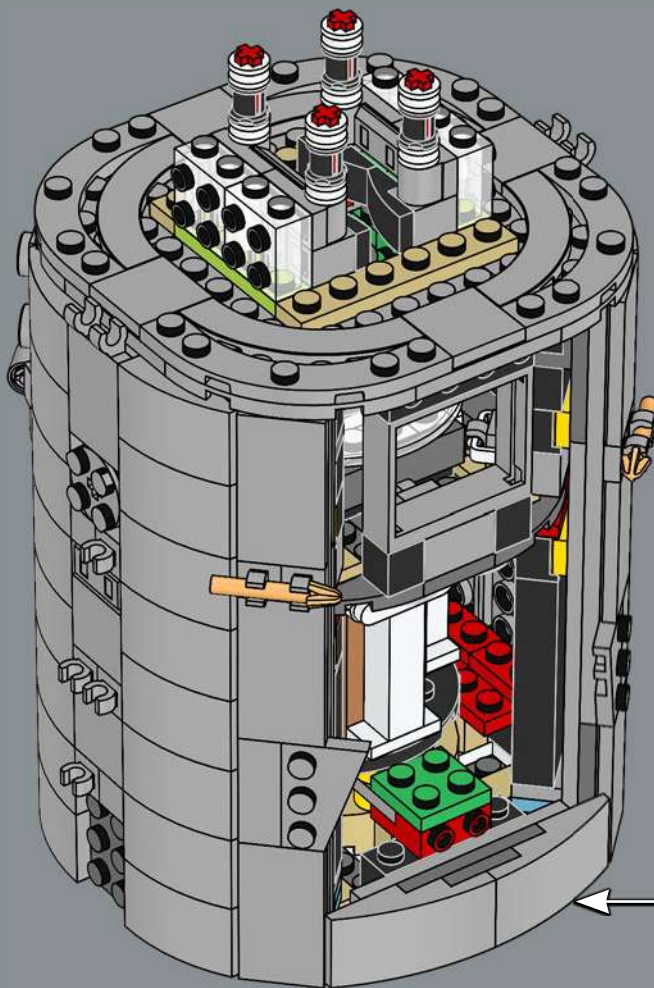
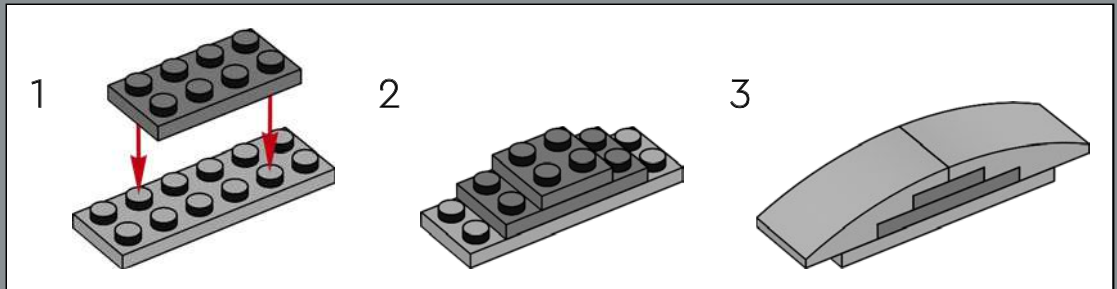
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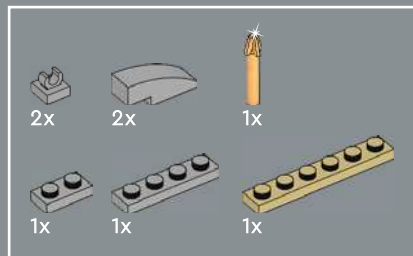
174



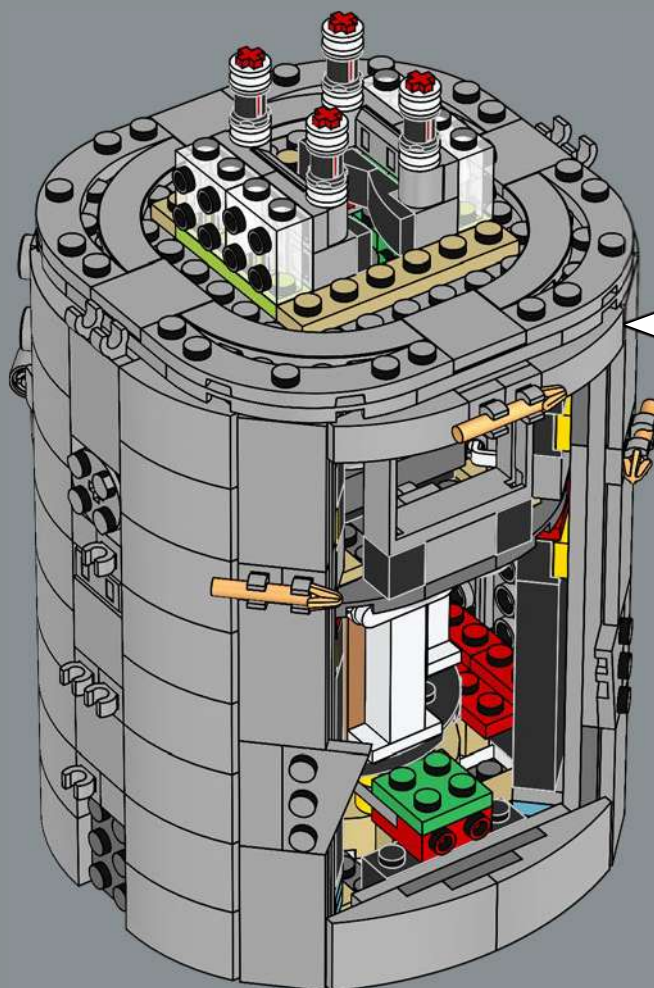
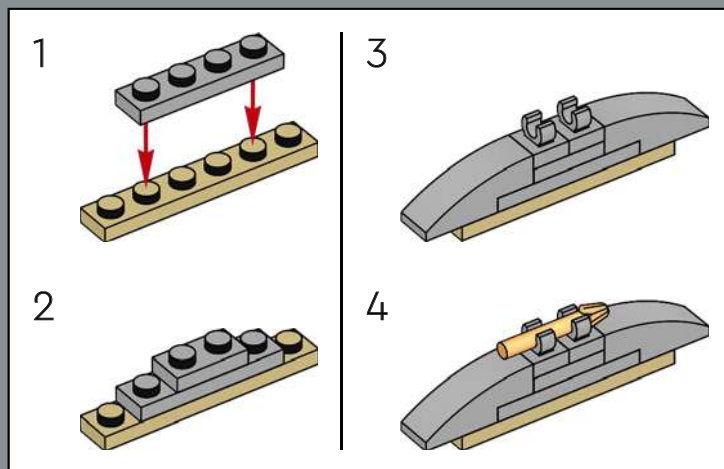


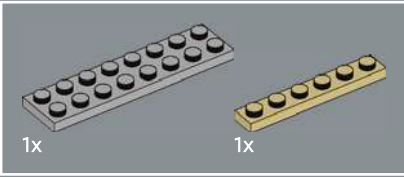
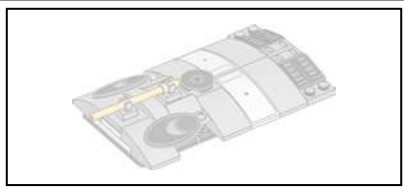
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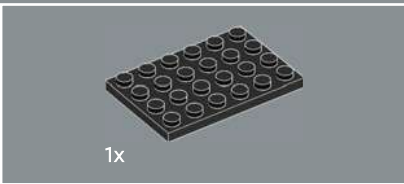
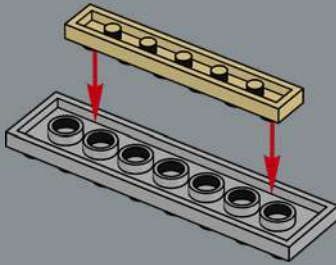


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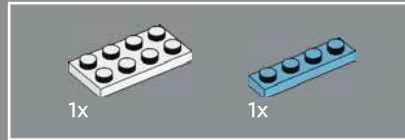
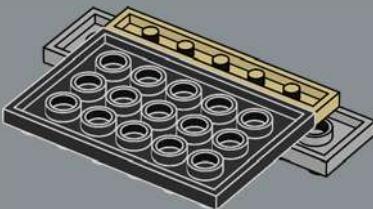




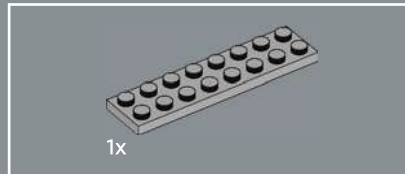
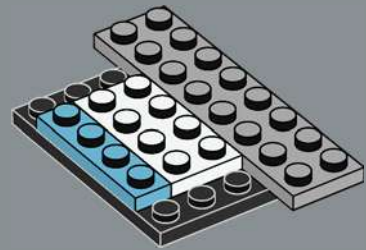
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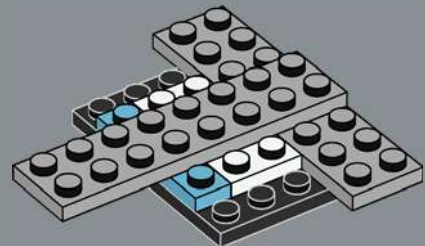
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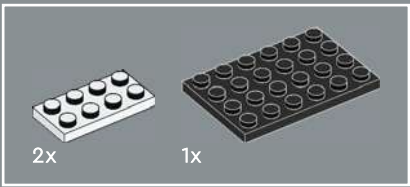


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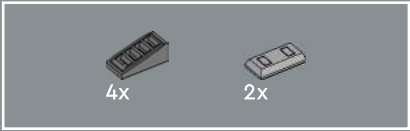
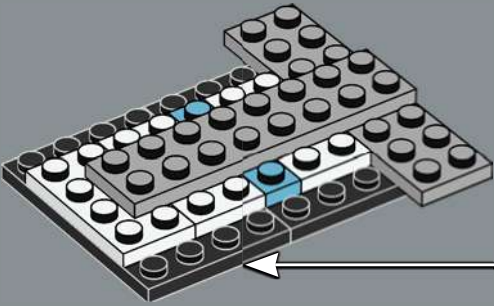
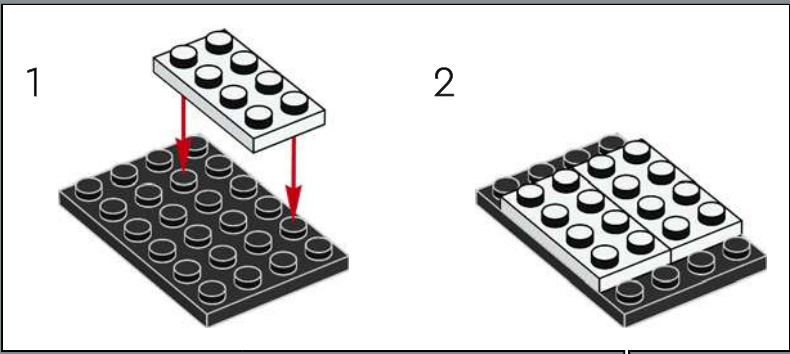


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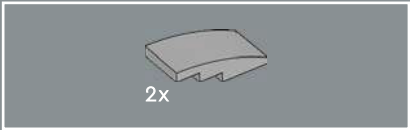
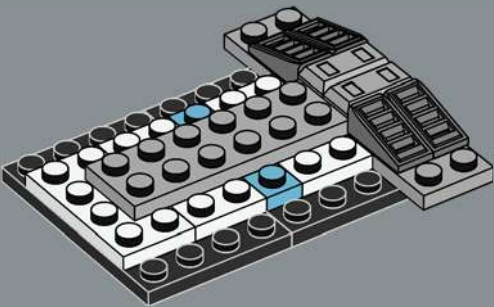




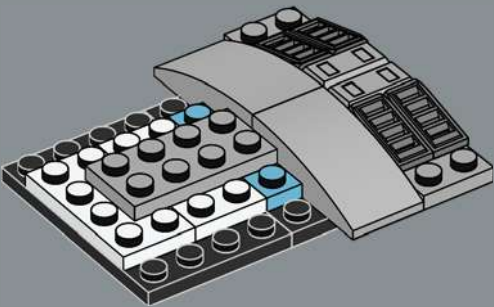
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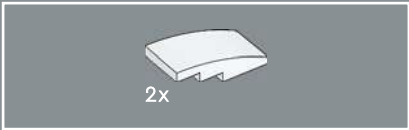


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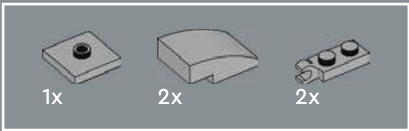
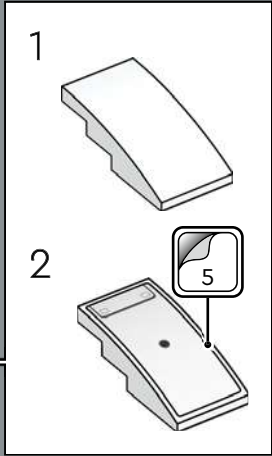
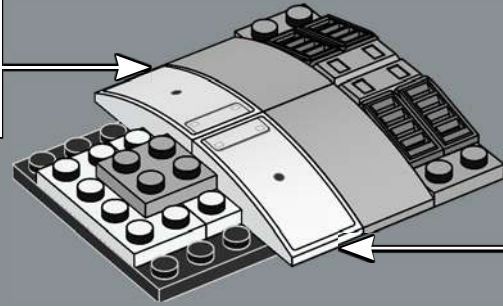
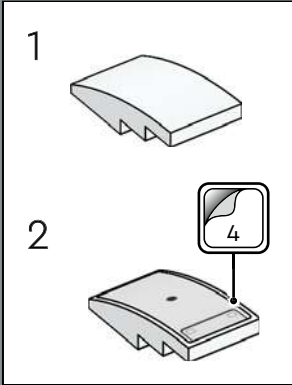


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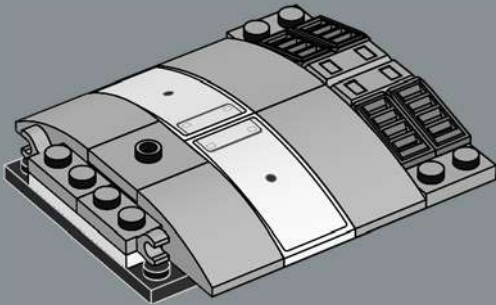


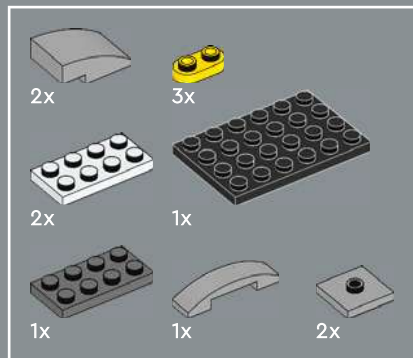


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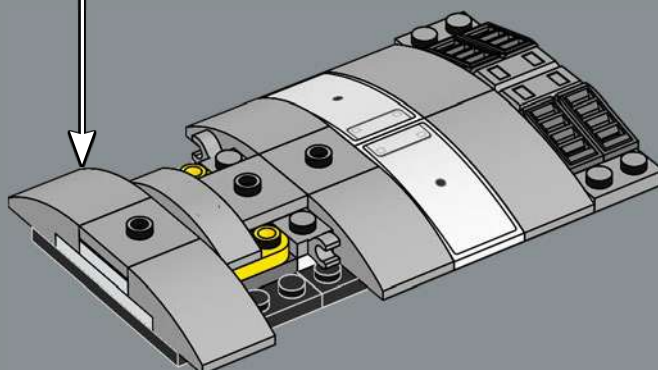
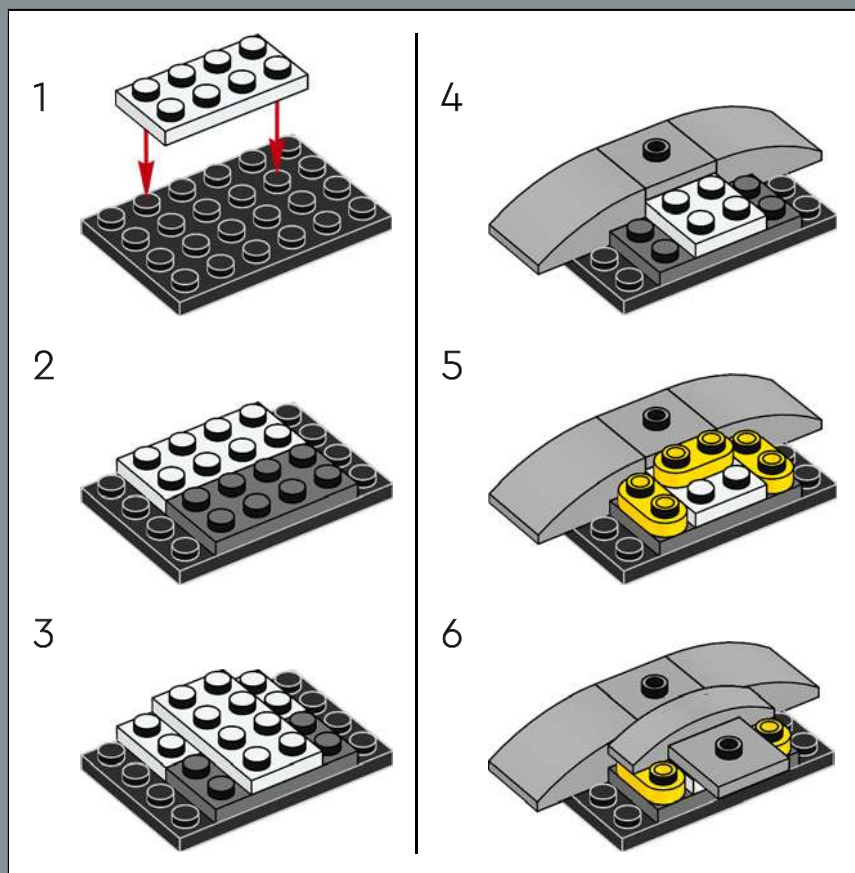


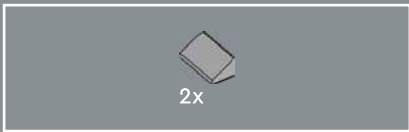
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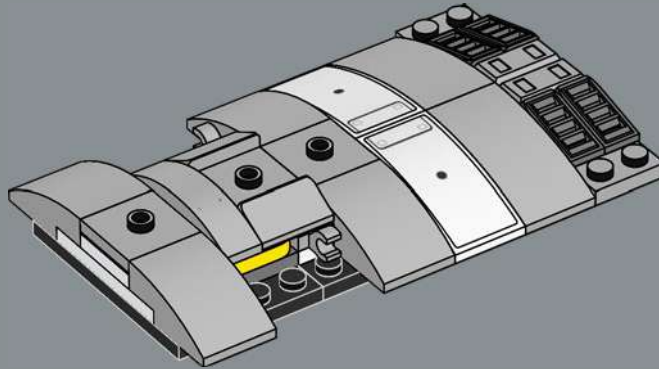


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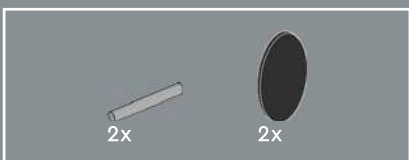
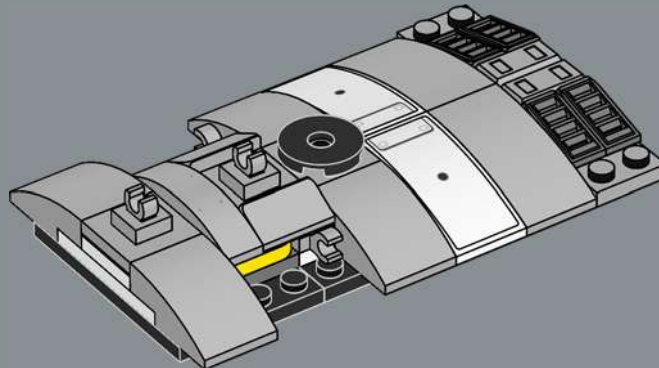




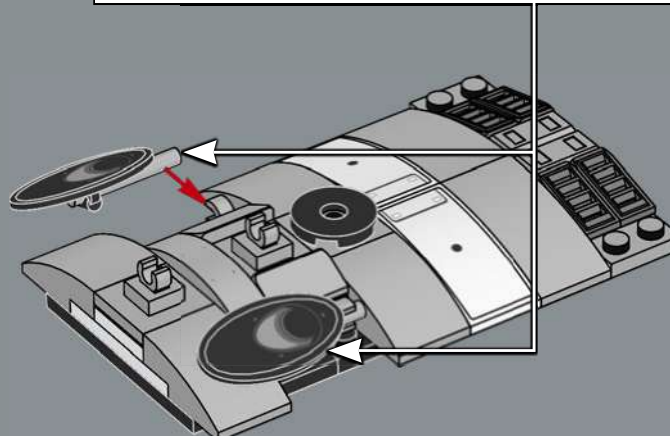
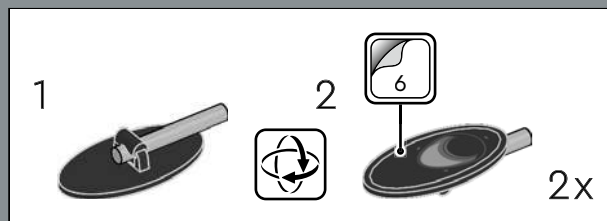
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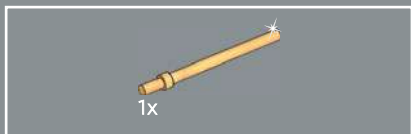


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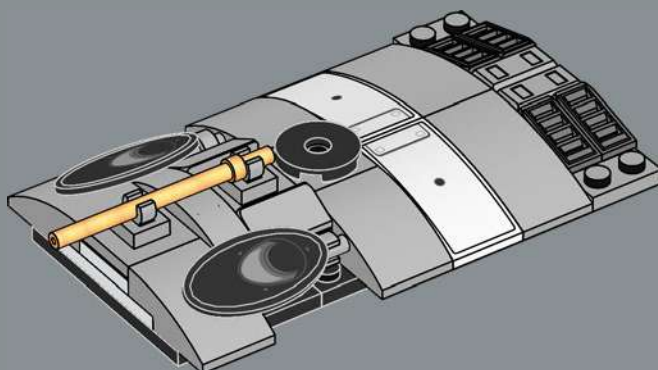


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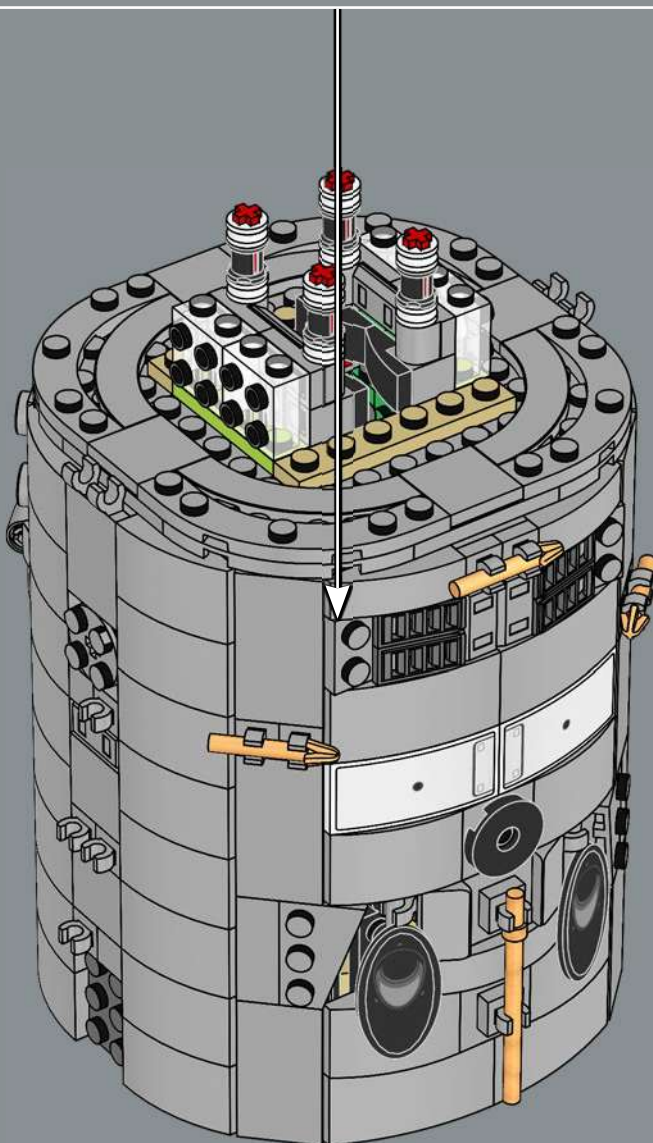


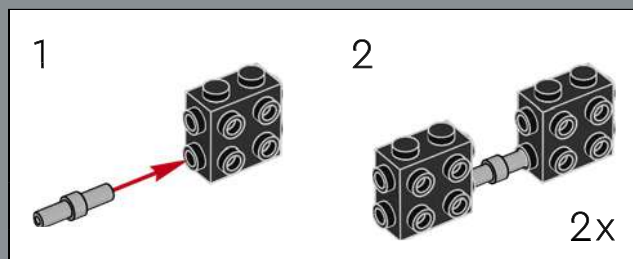
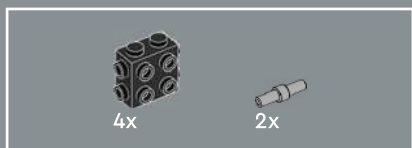


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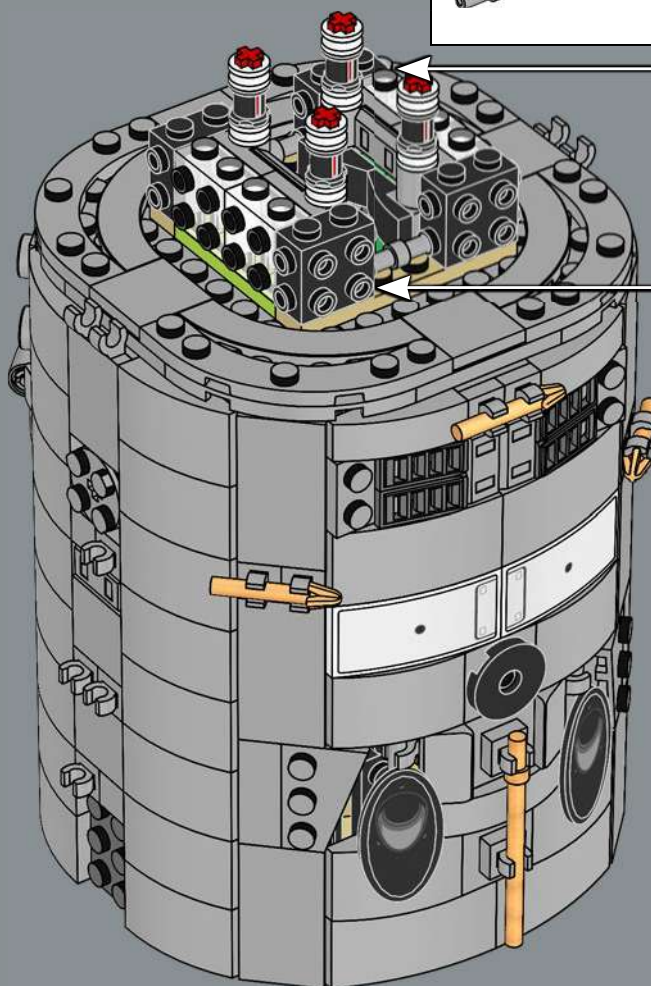


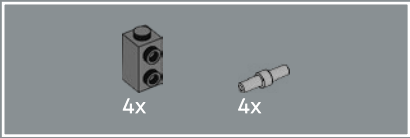
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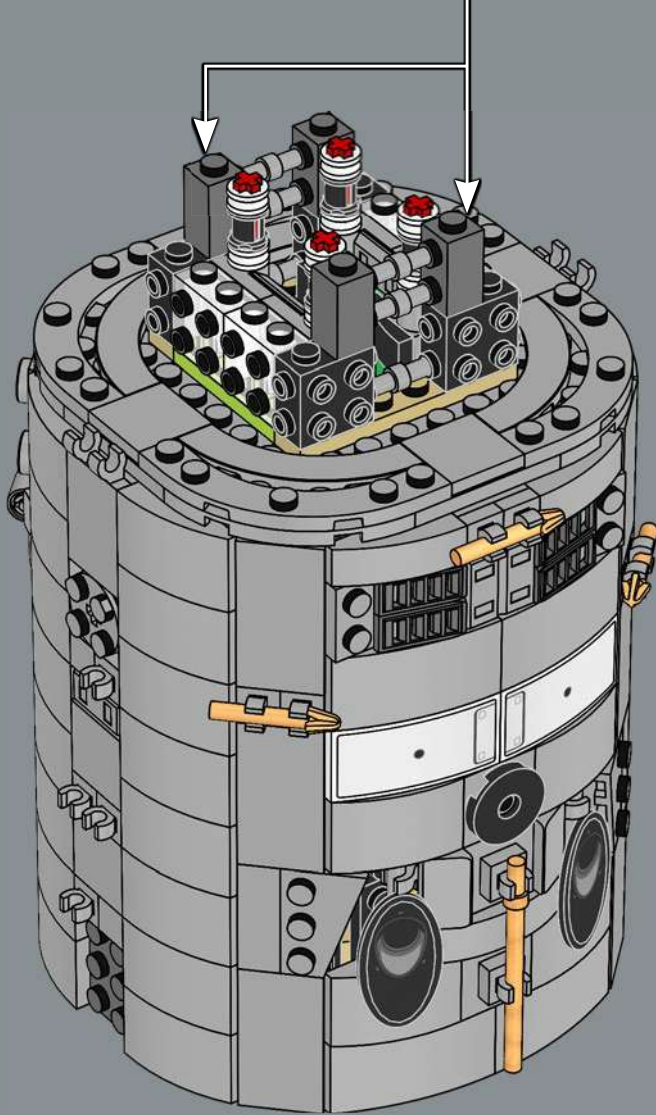
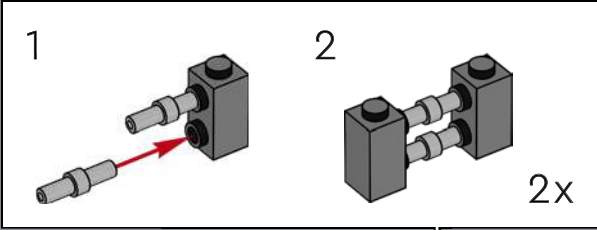


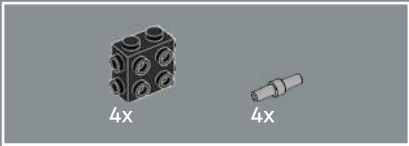
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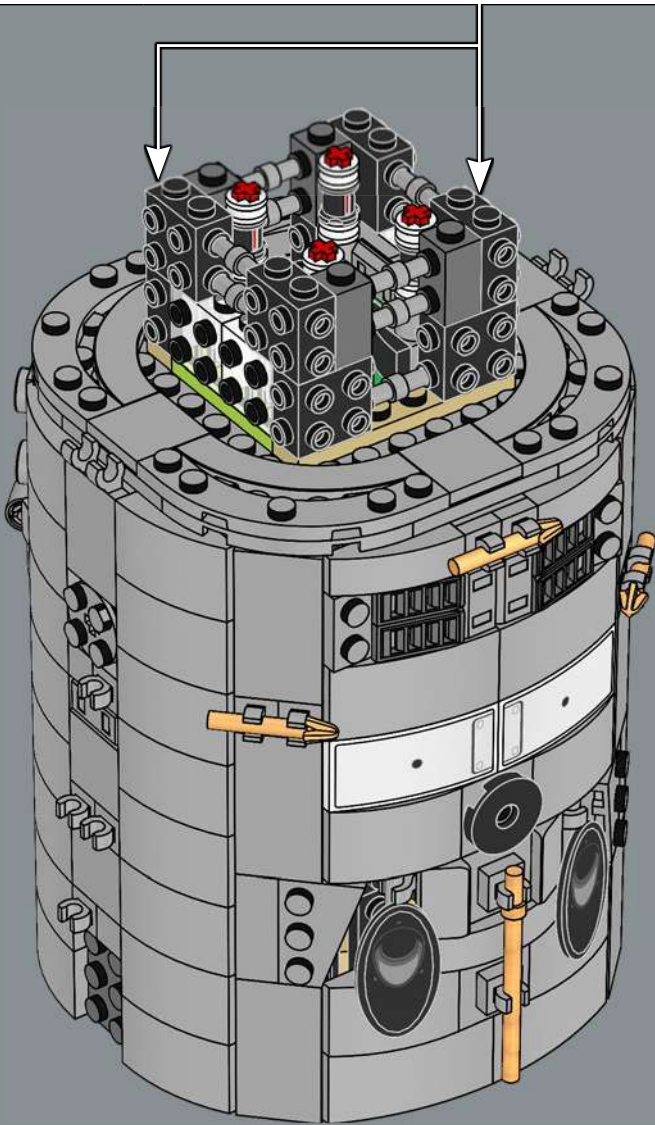
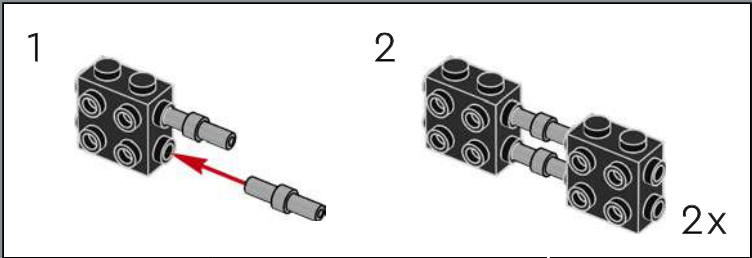


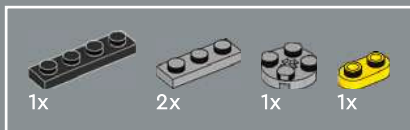
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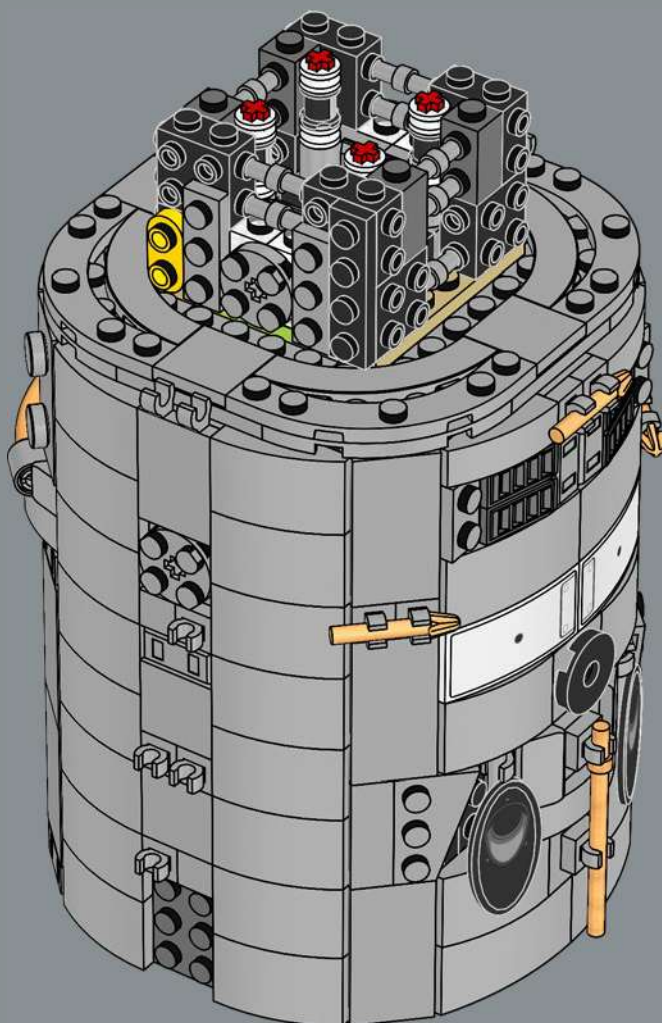


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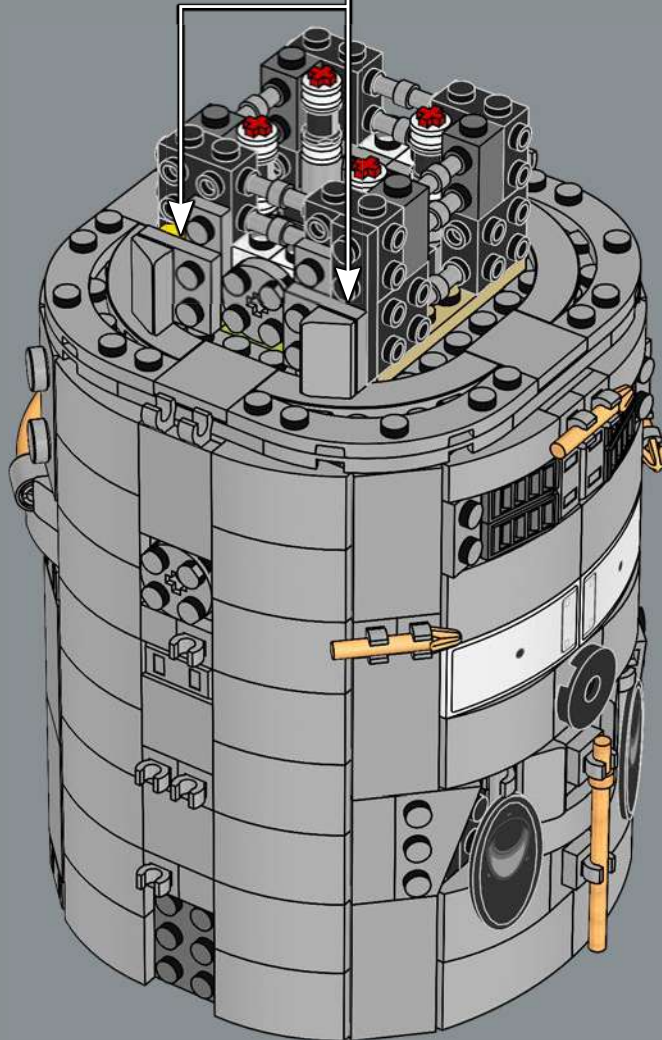
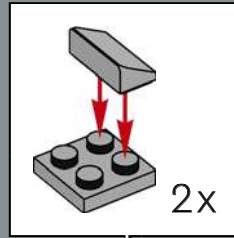


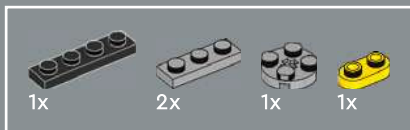
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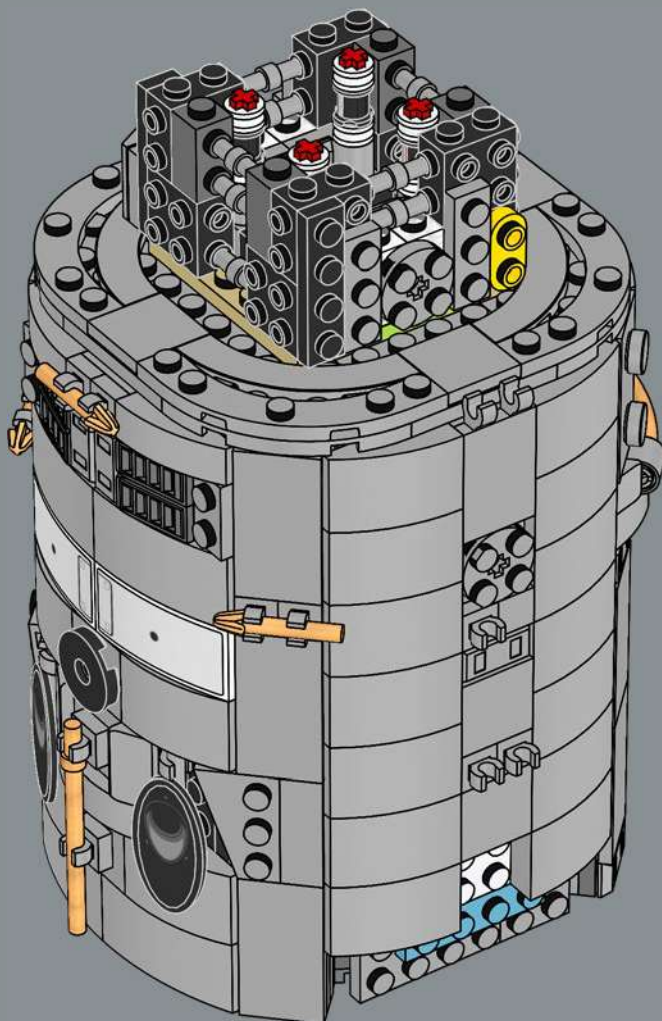
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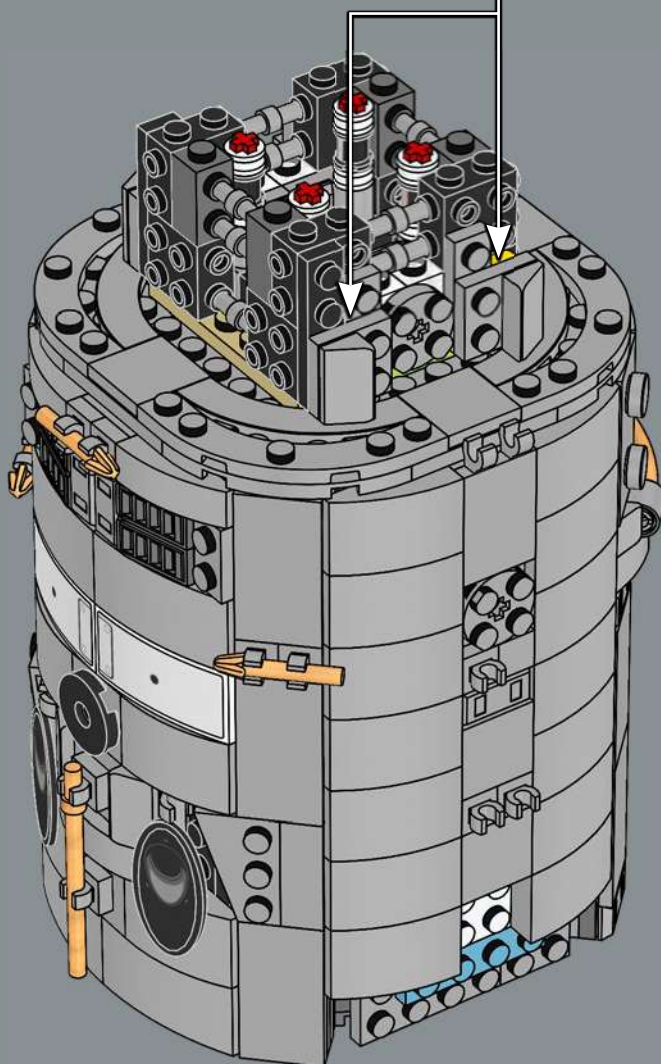
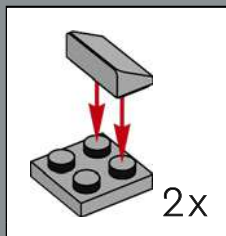


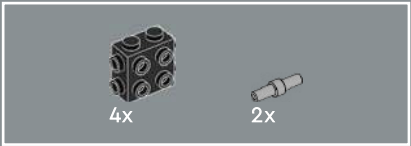
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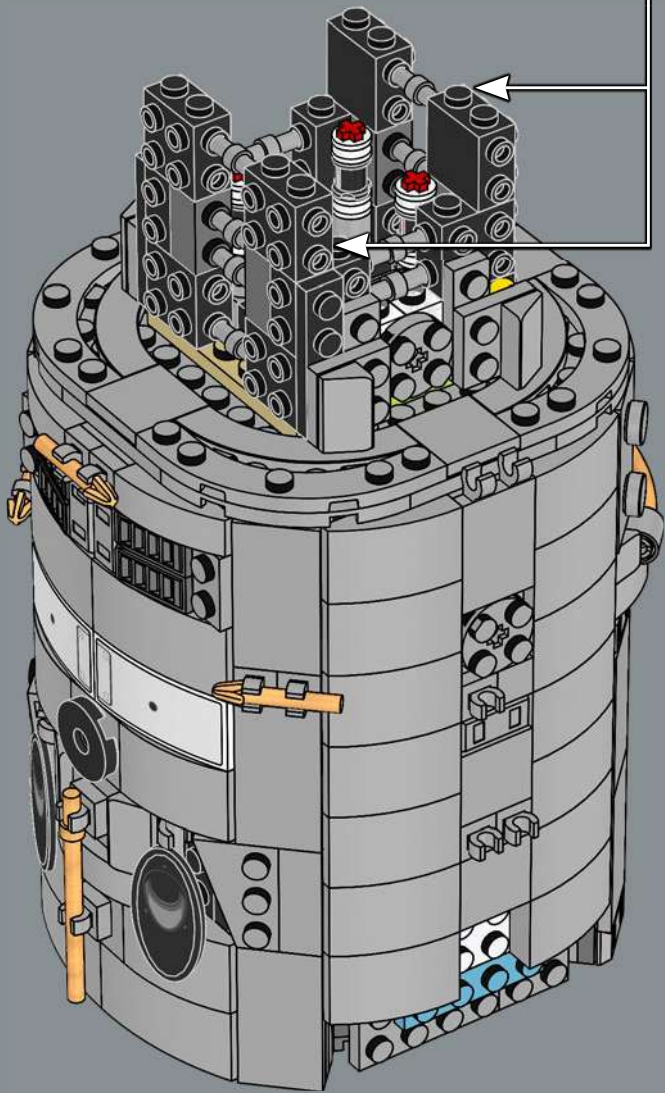
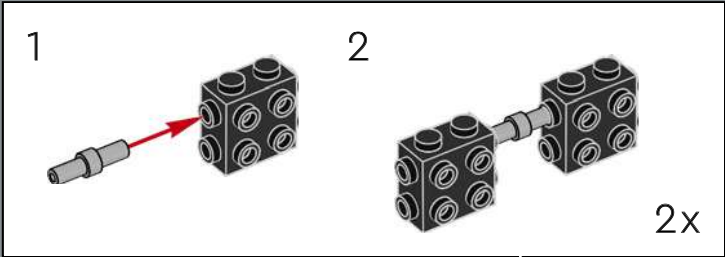
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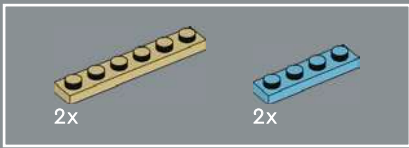
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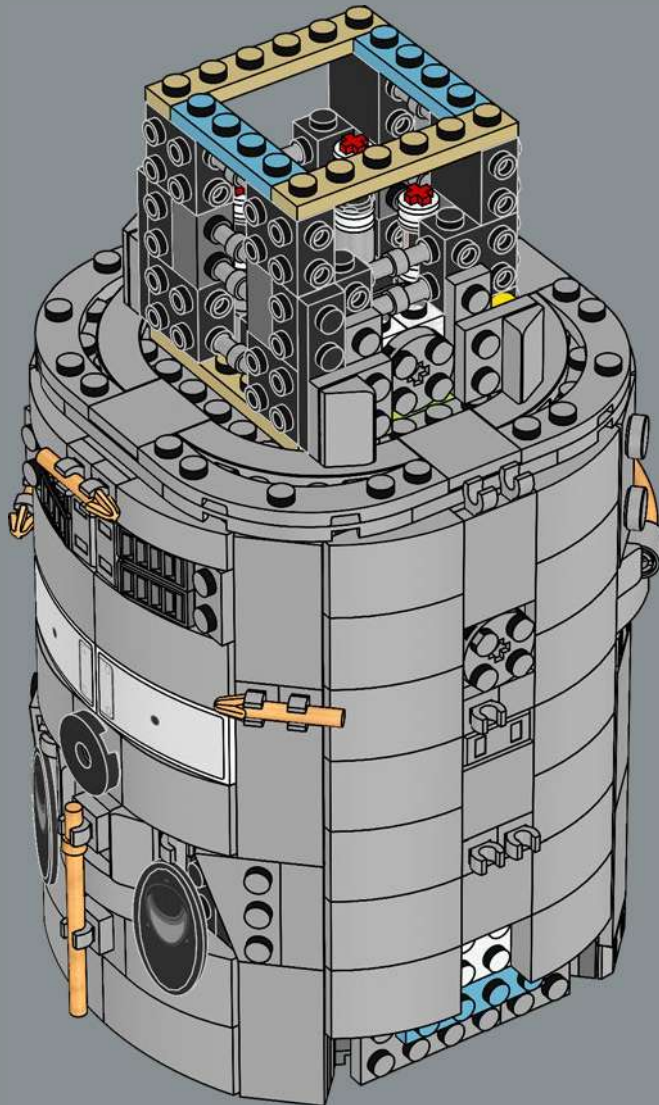


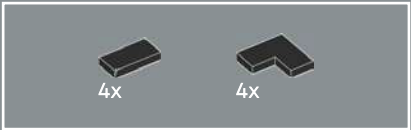
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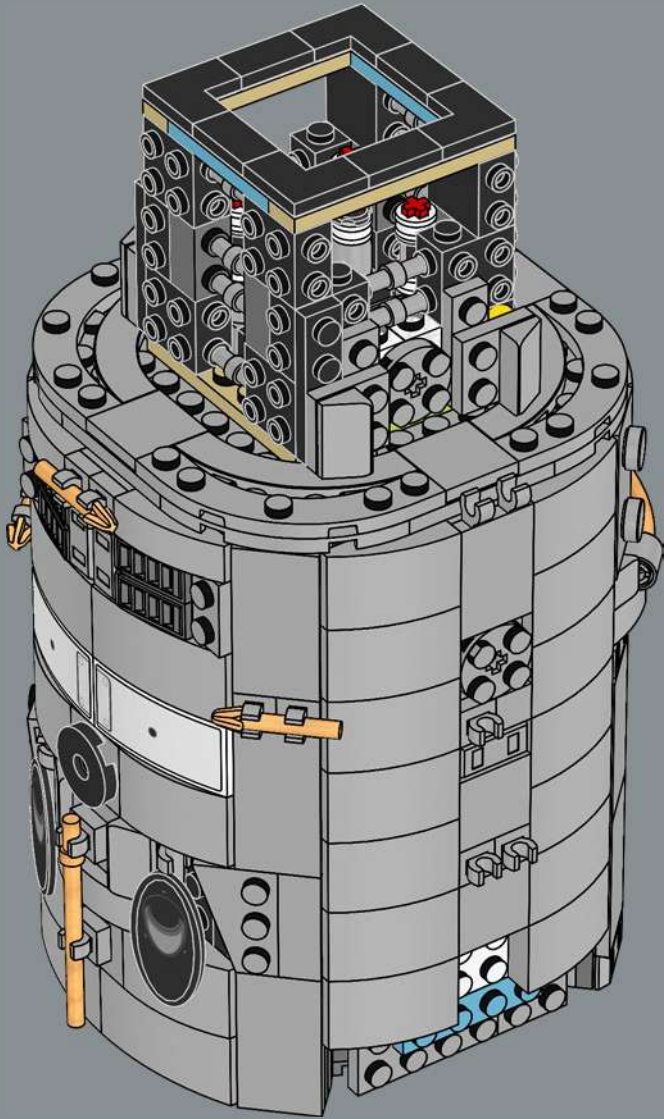


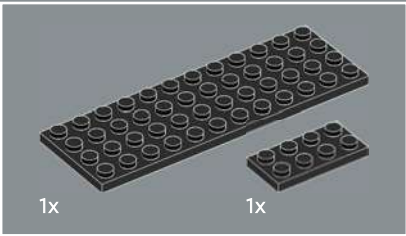
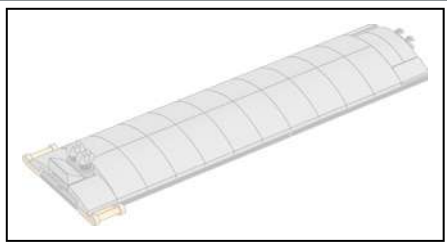
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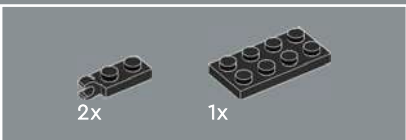
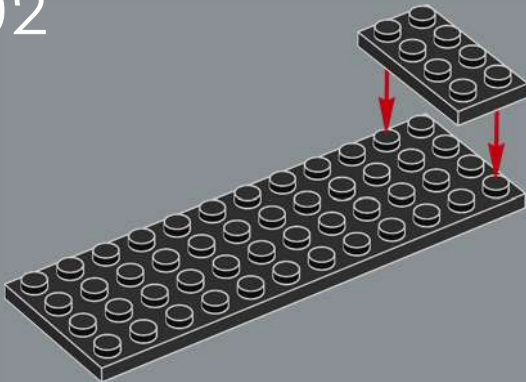


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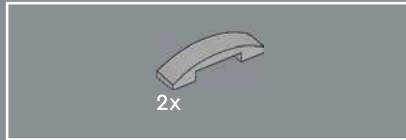
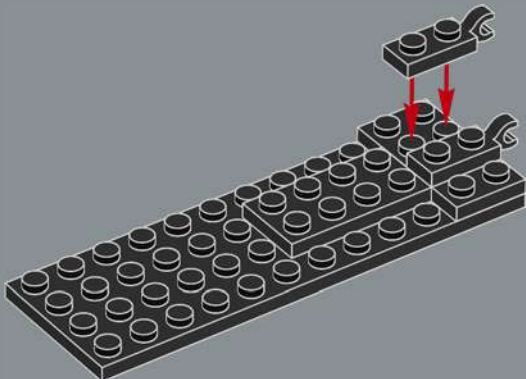




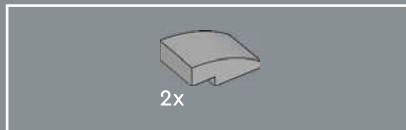
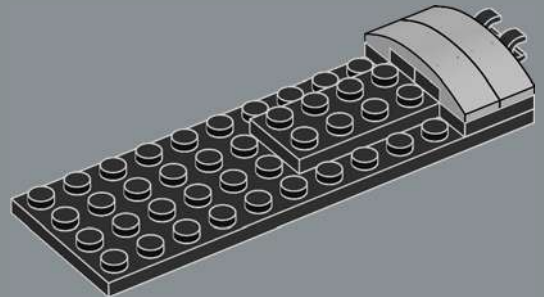
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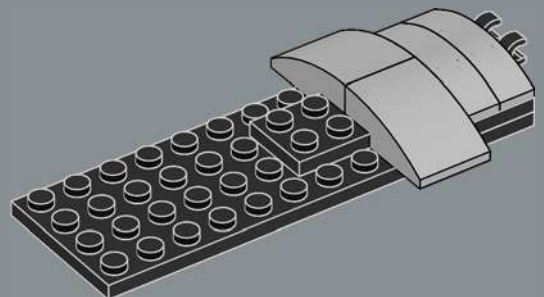
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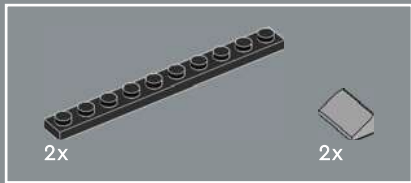


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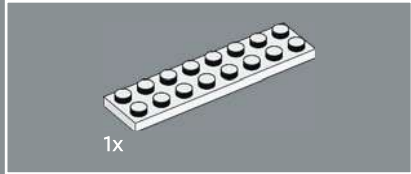
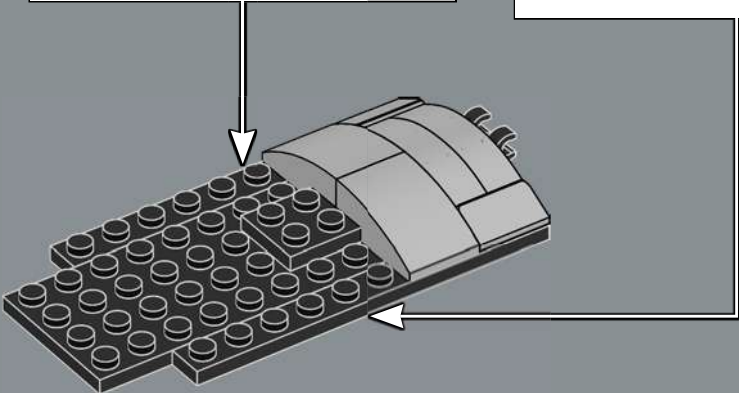
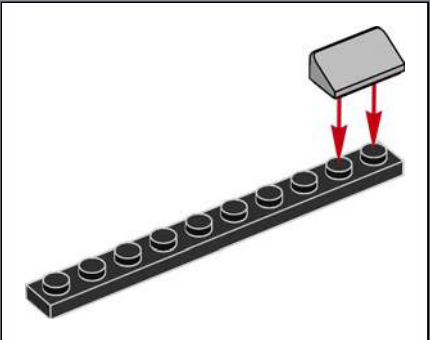
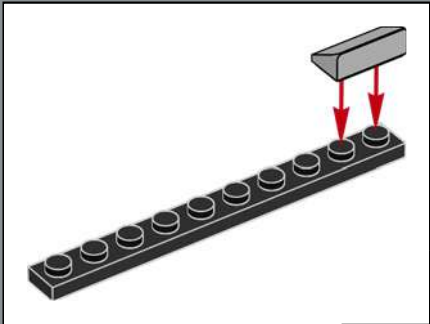


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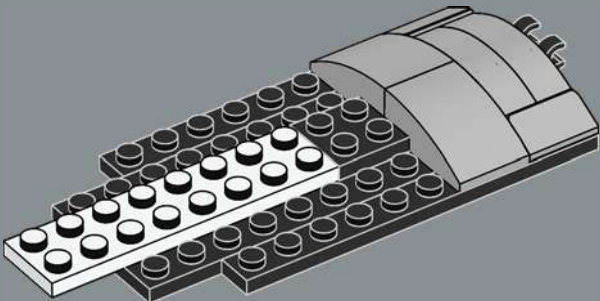


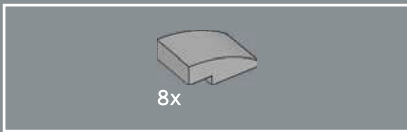


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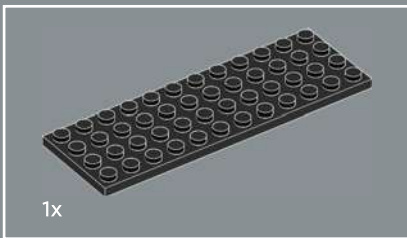
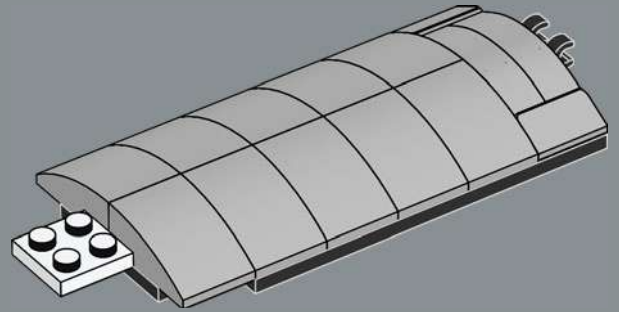


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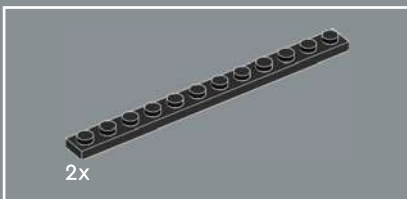
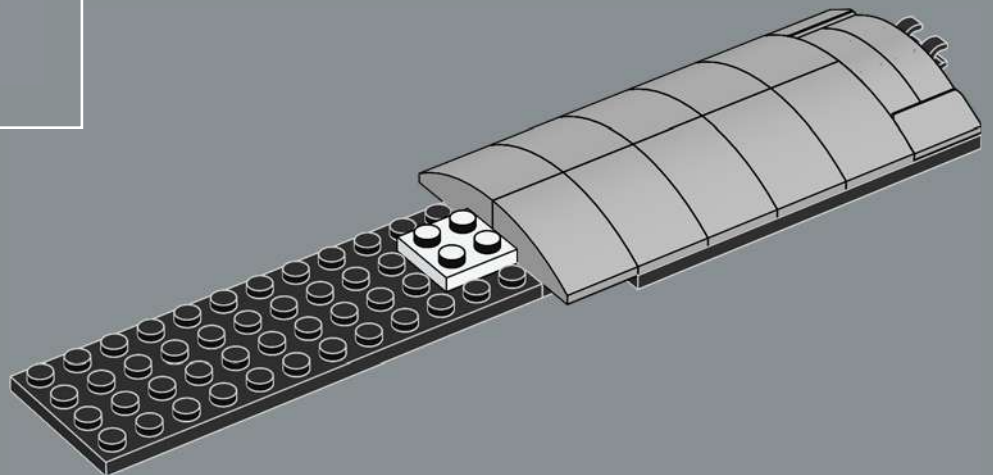




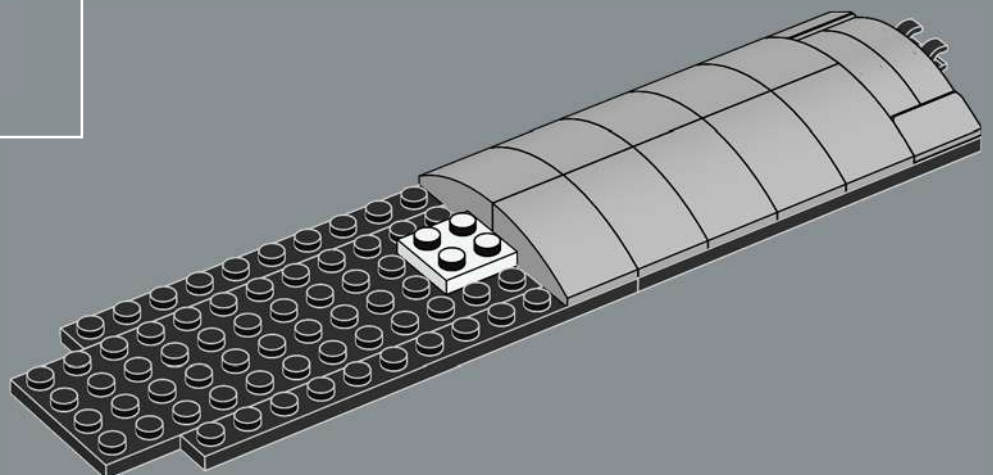
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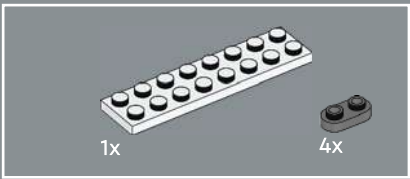


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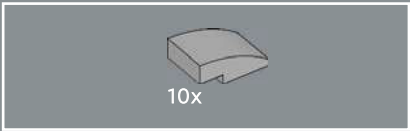
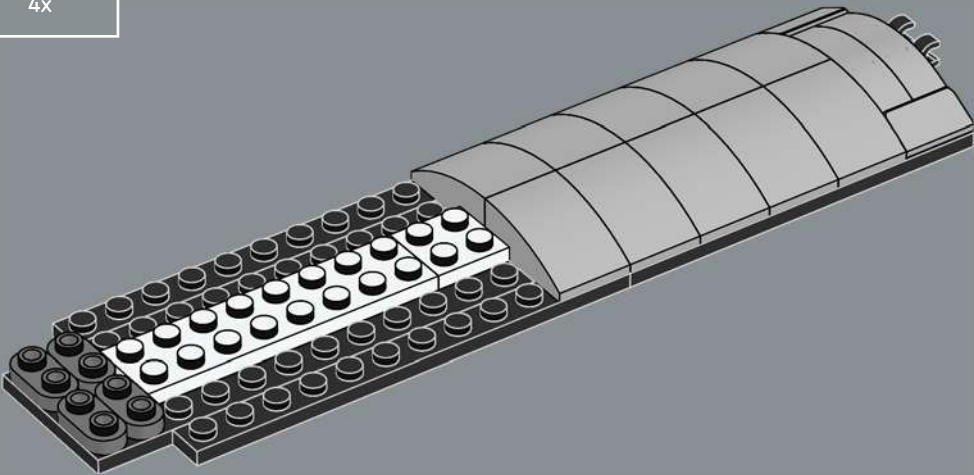


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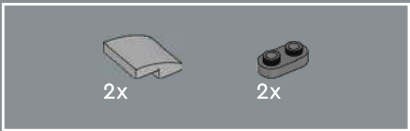
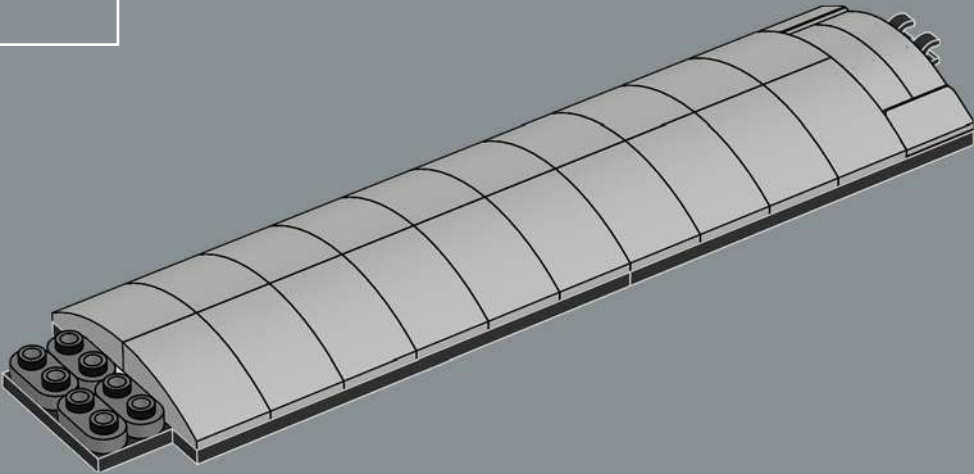




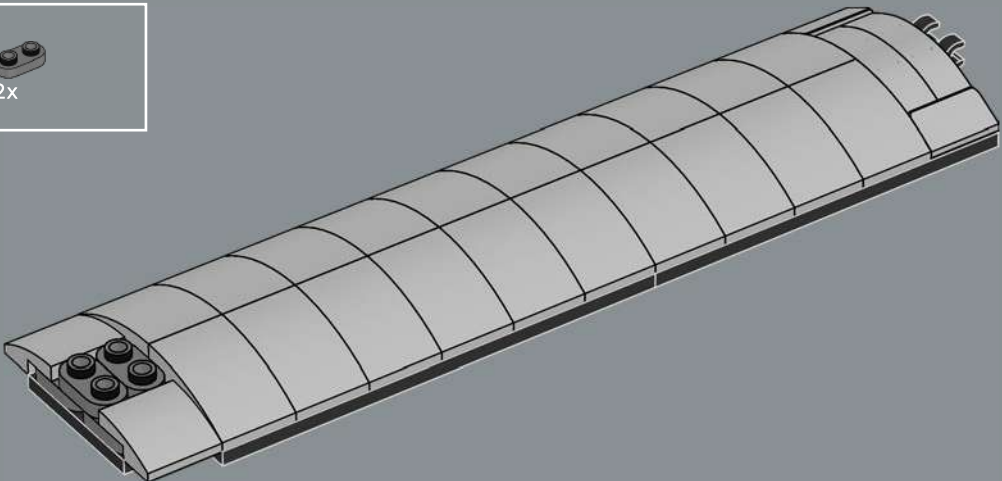
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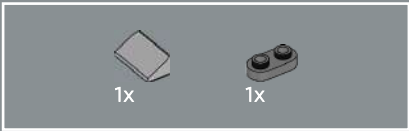
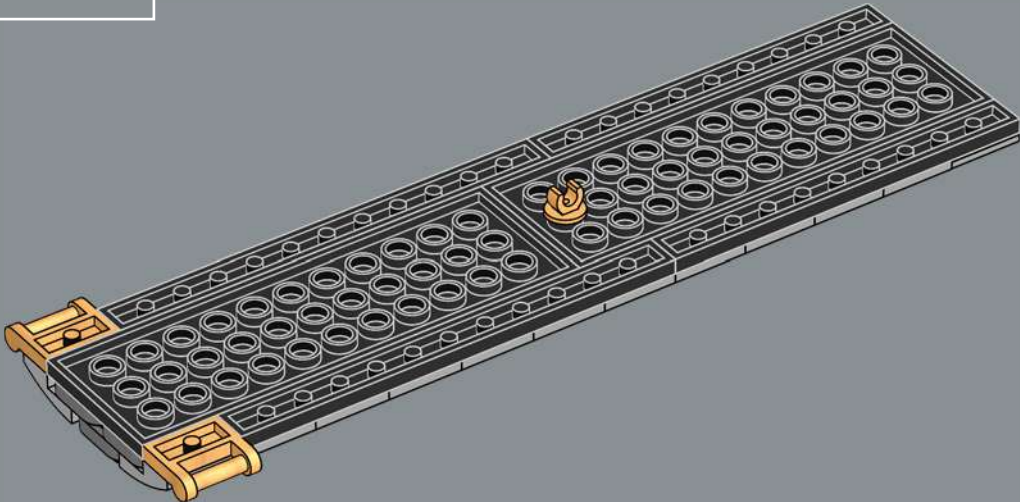


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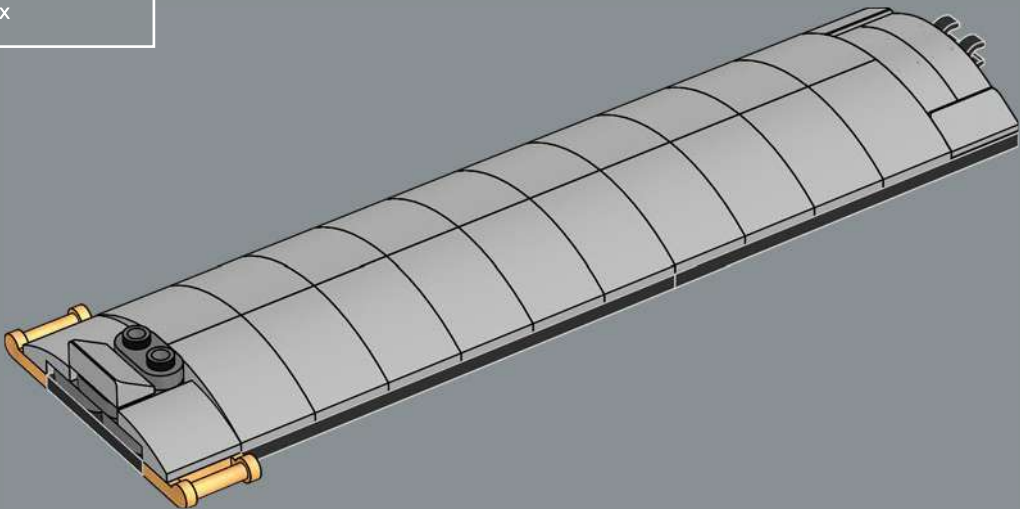




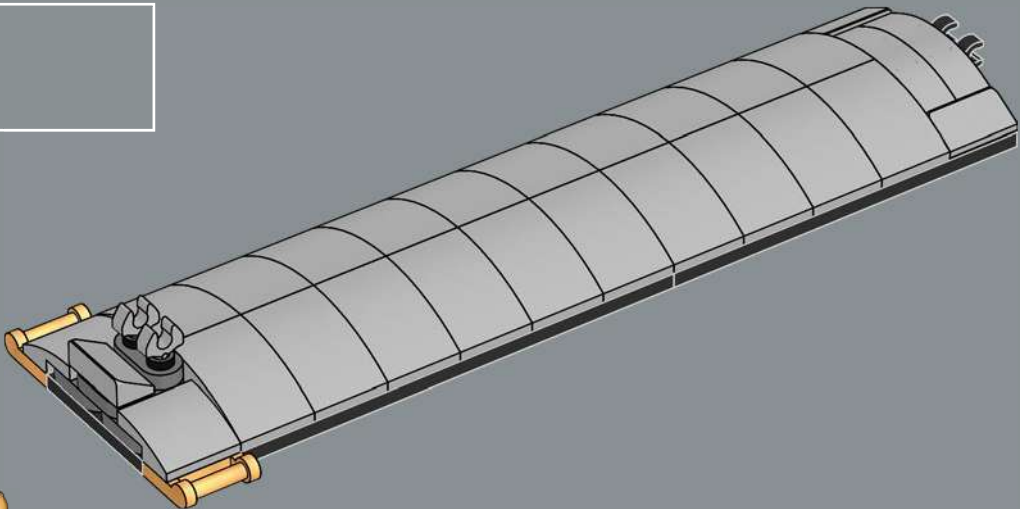
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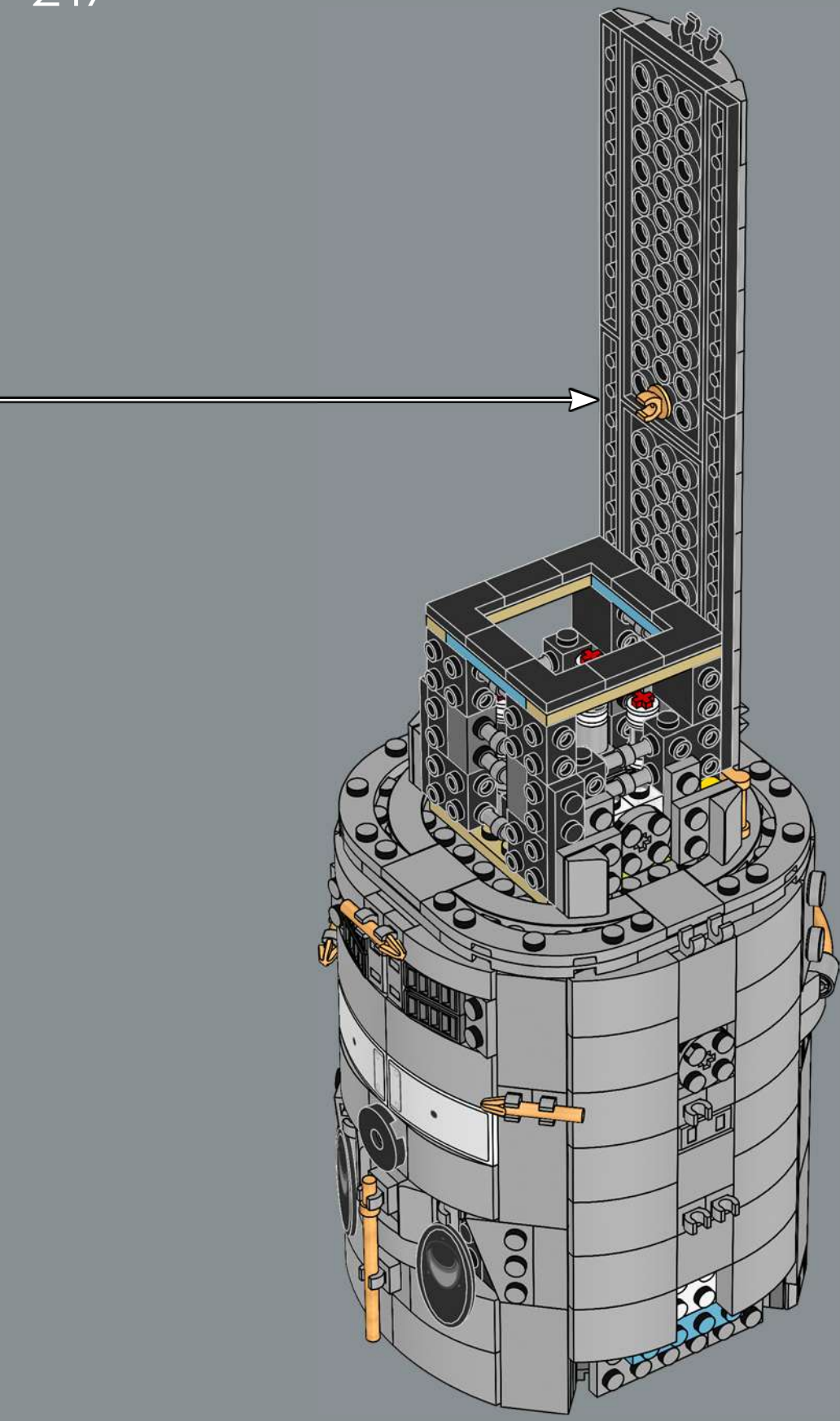


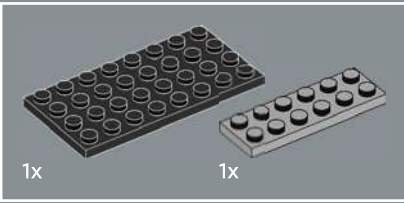
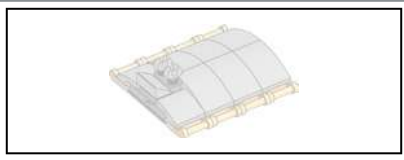
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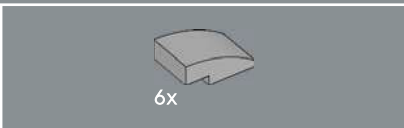
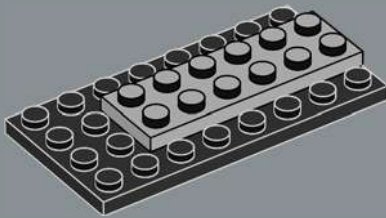
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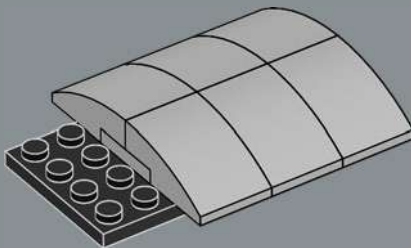




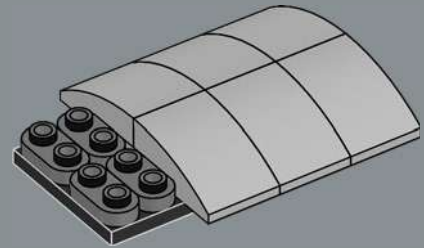
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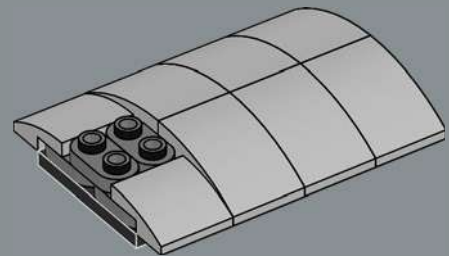
219



220



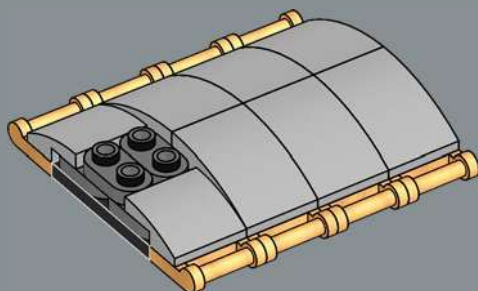
221





8x

222

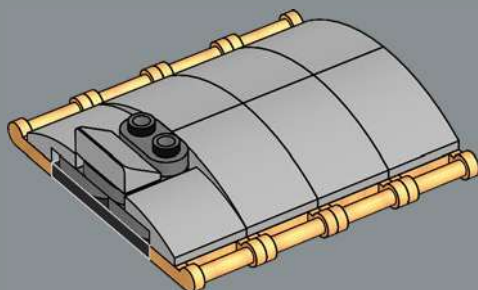


1x



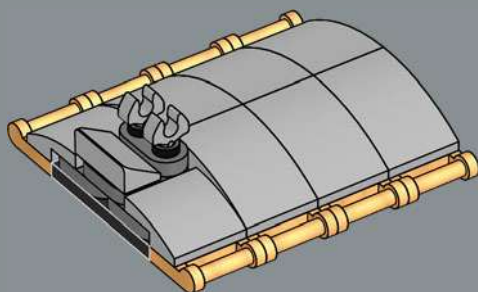
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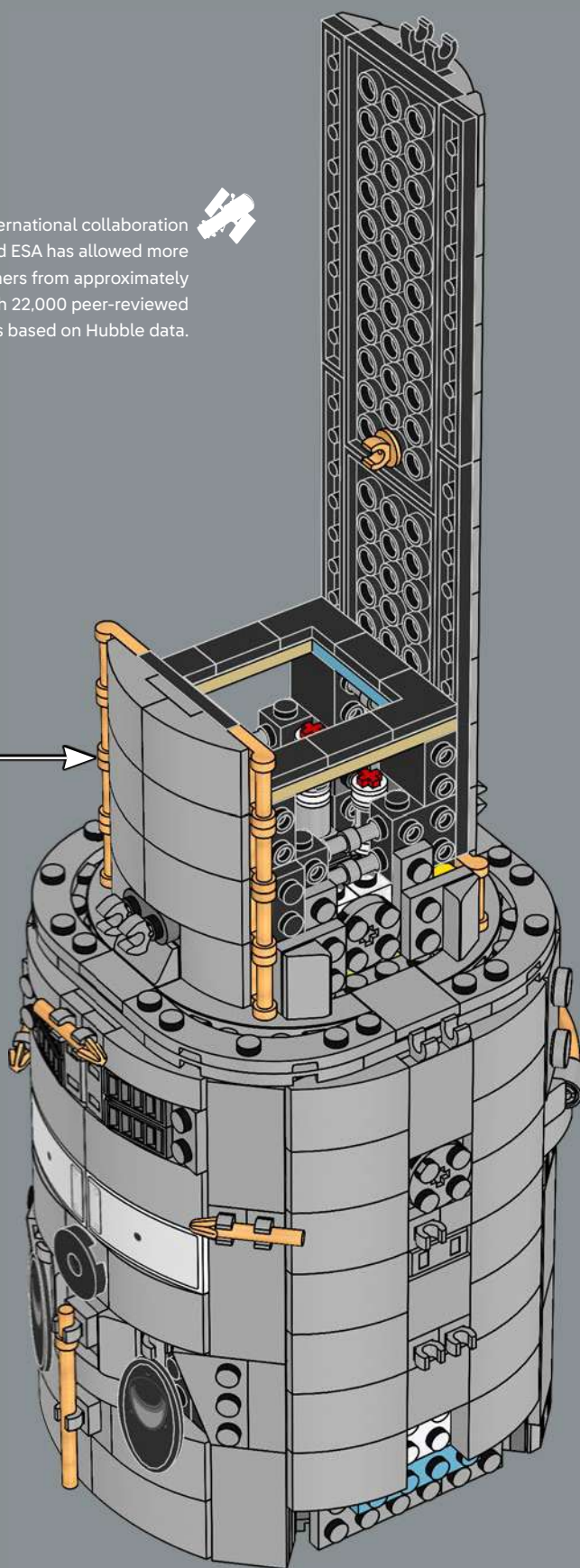
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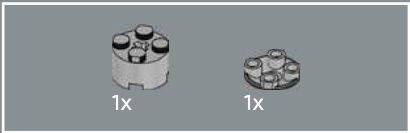
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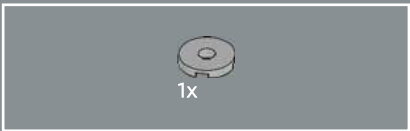
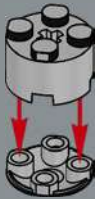
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The strong international collaboration between NASA and ESA has allowed more than 25,000 astronomers from approximately 40 countries to publish 22,000 peer-reviewed science papers based on Hubble data.

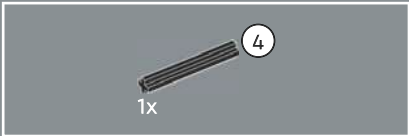




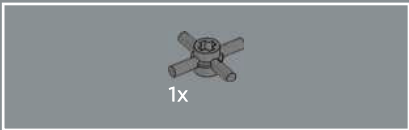
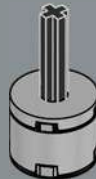
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227



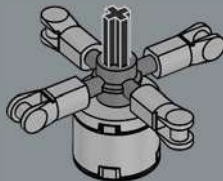
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229



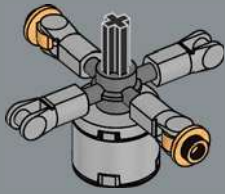
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2x

231

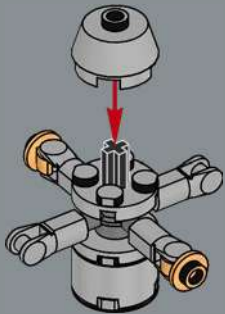


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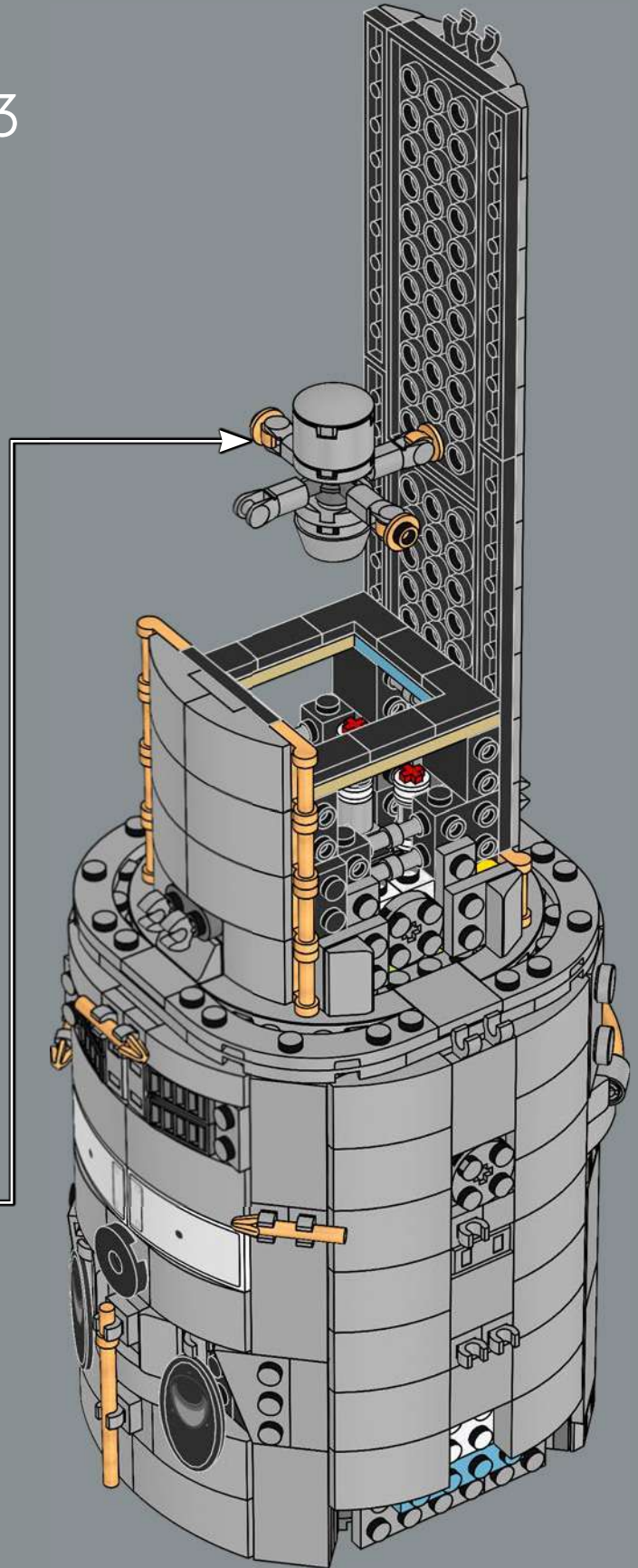


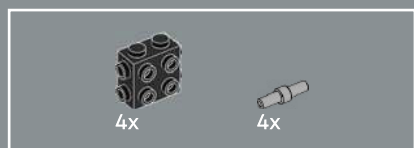
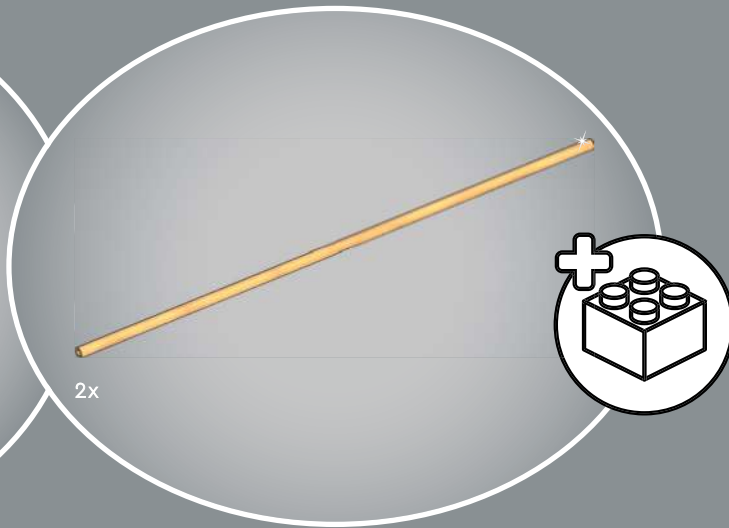
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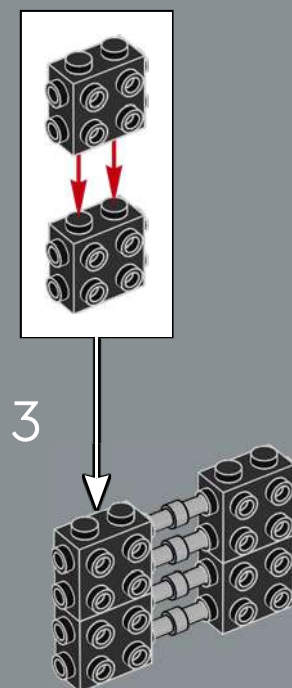
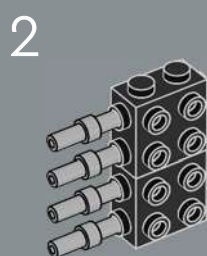
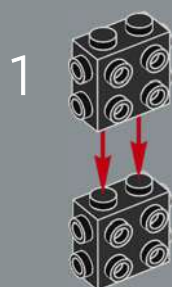


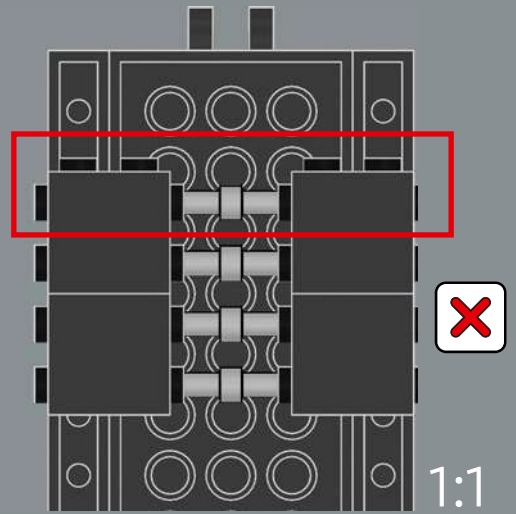
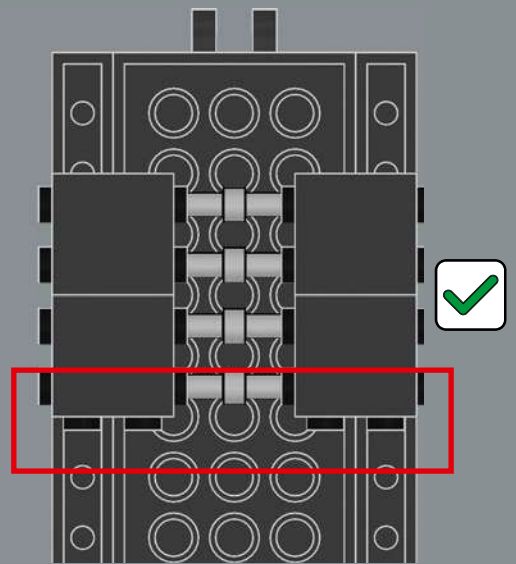
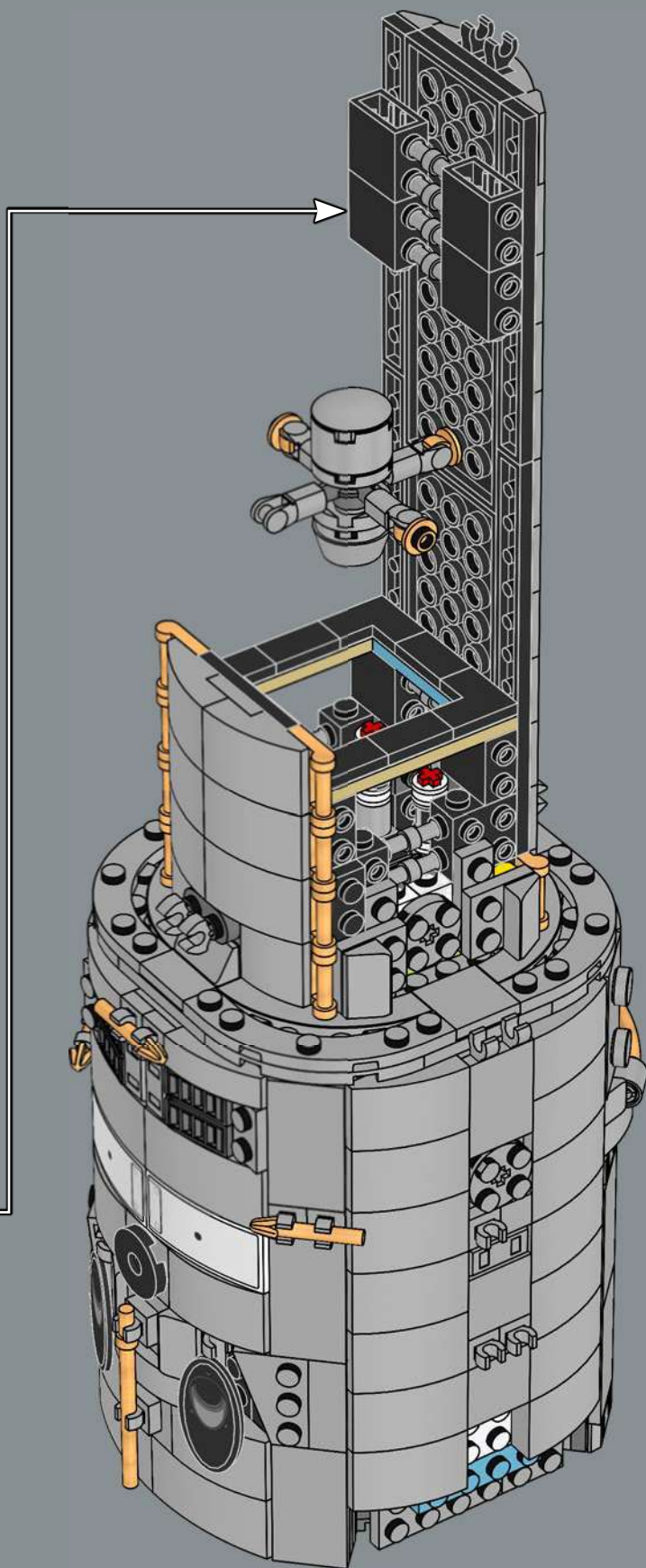
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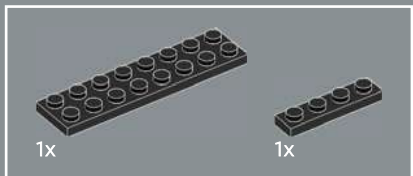
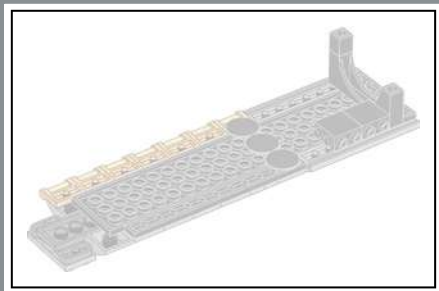




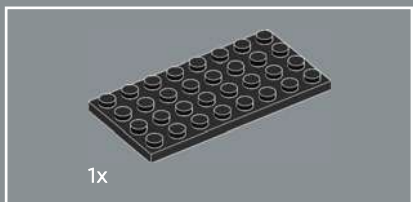
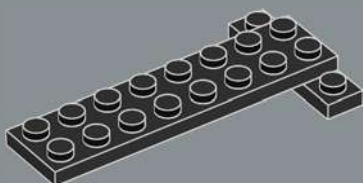
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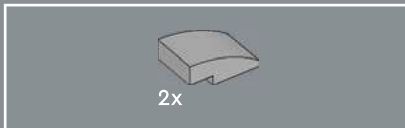
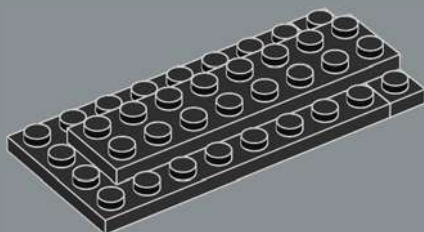




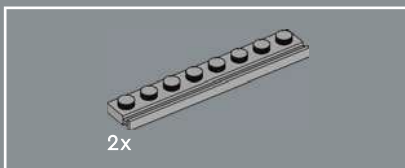
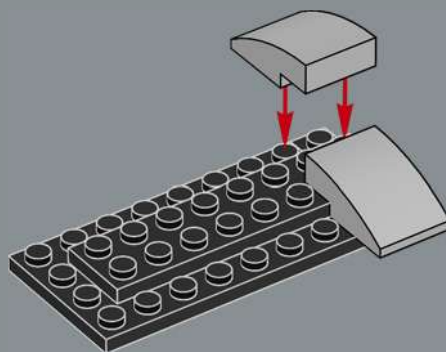
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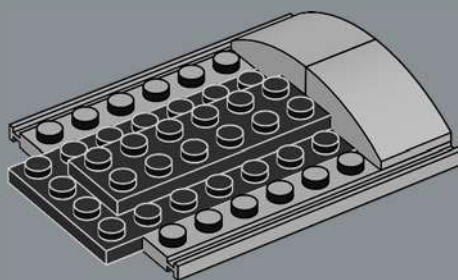
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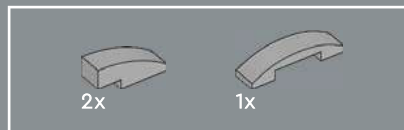
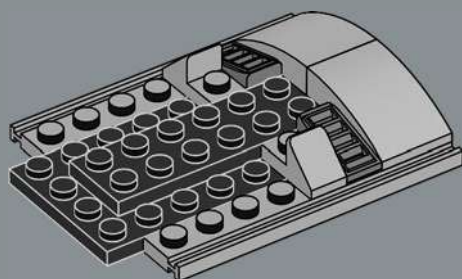


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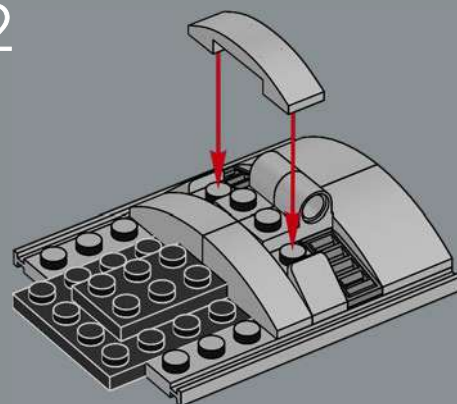




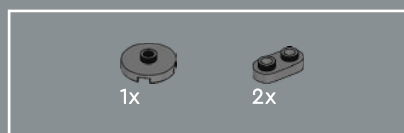
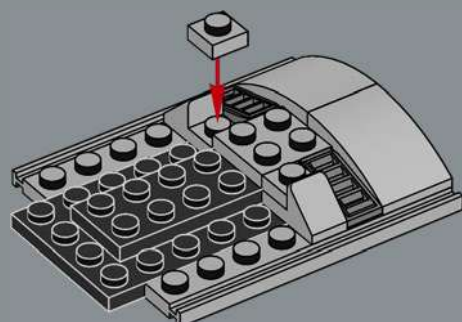
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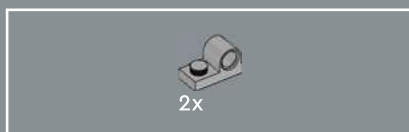
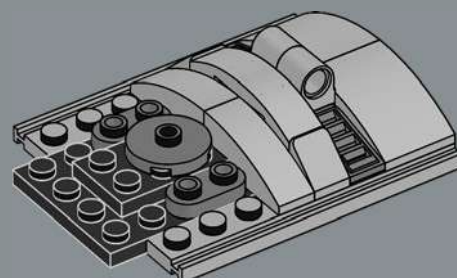
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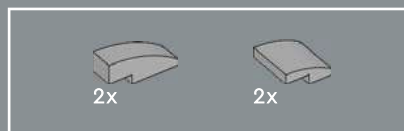
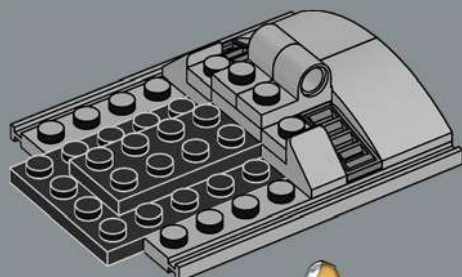
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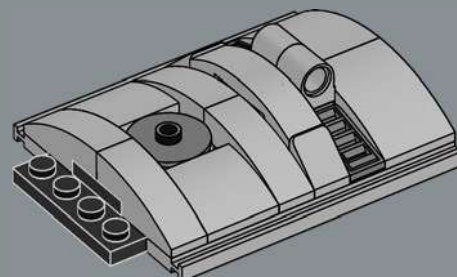
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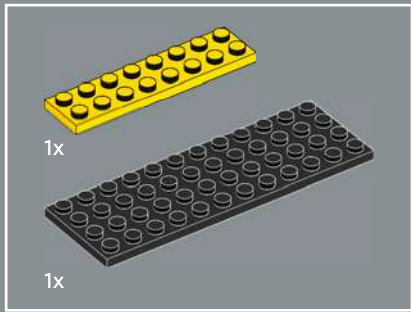


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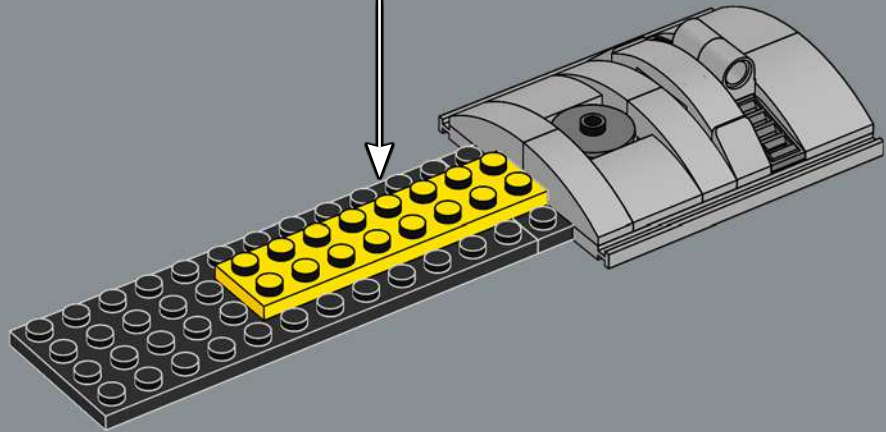
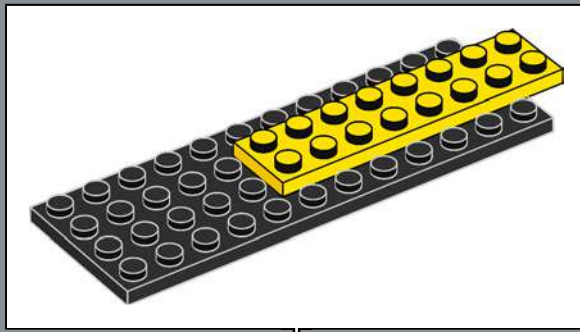


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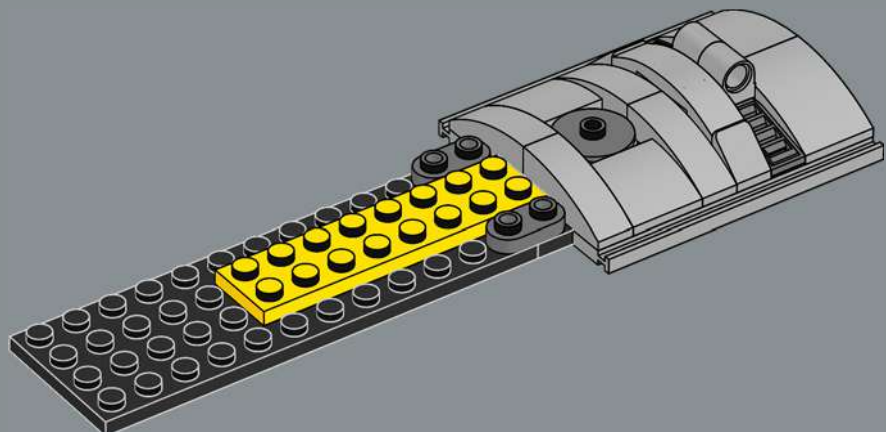


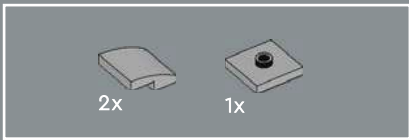


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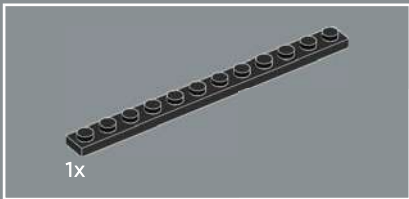
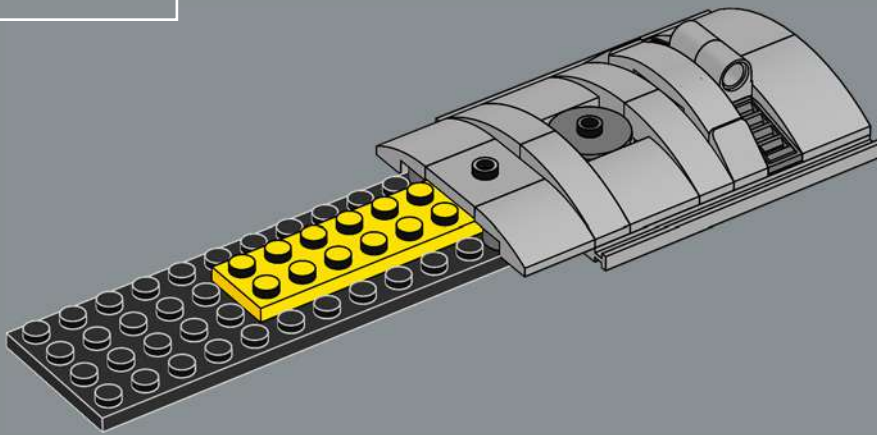


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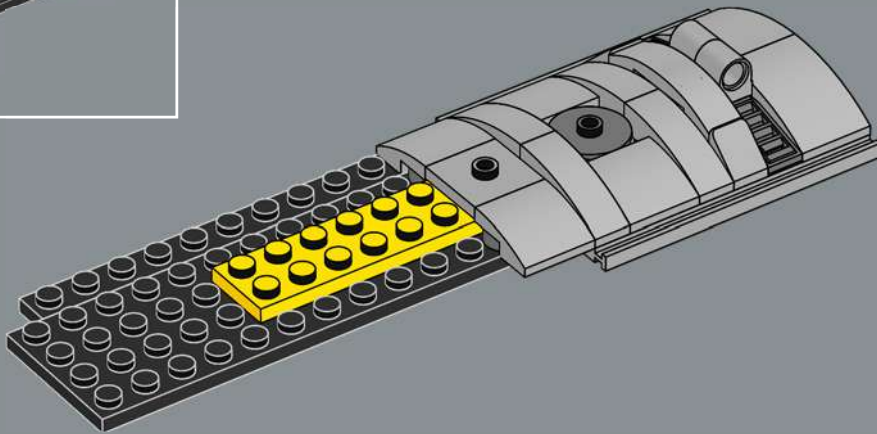




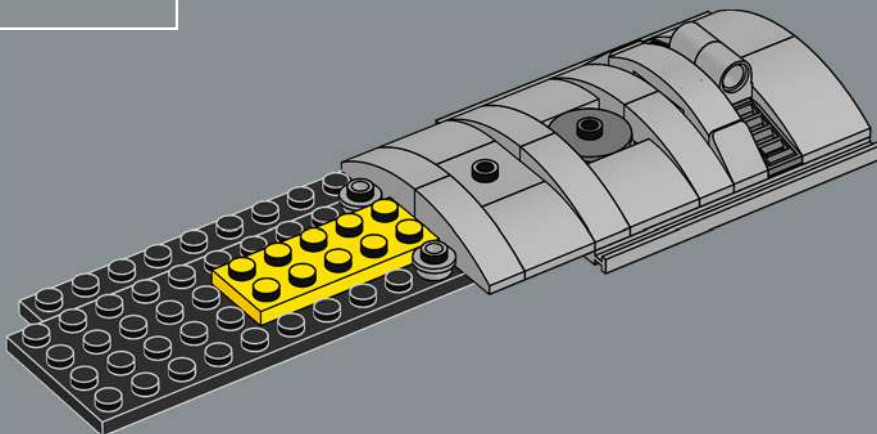
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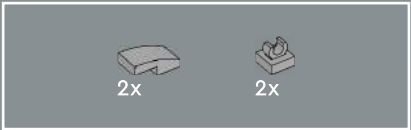


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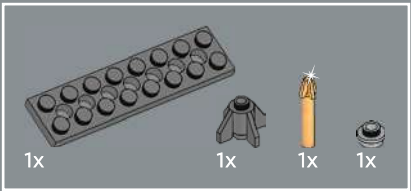
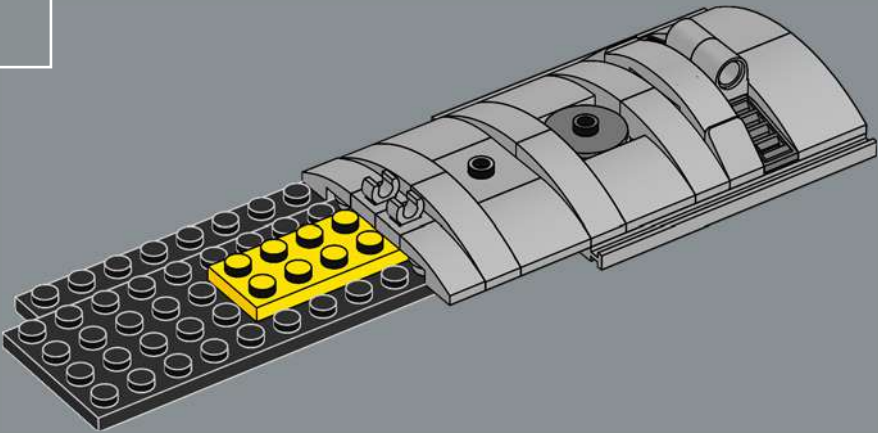


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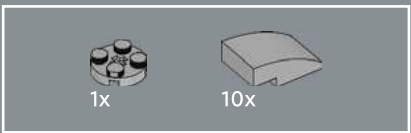
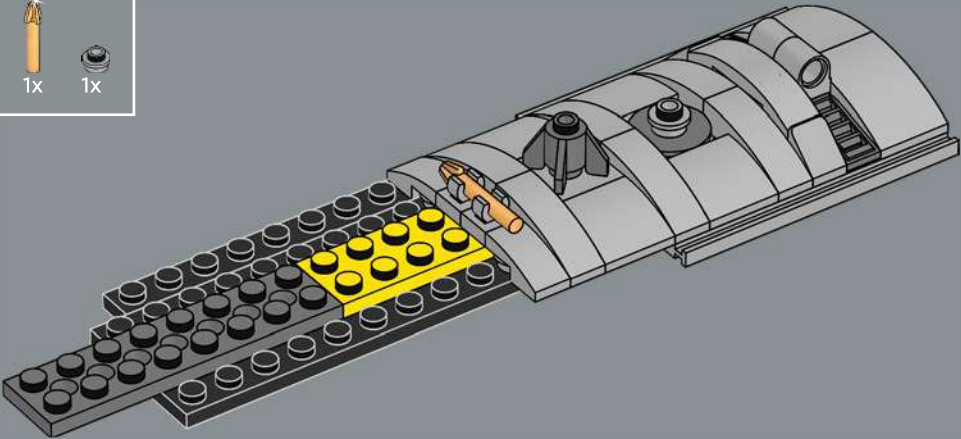




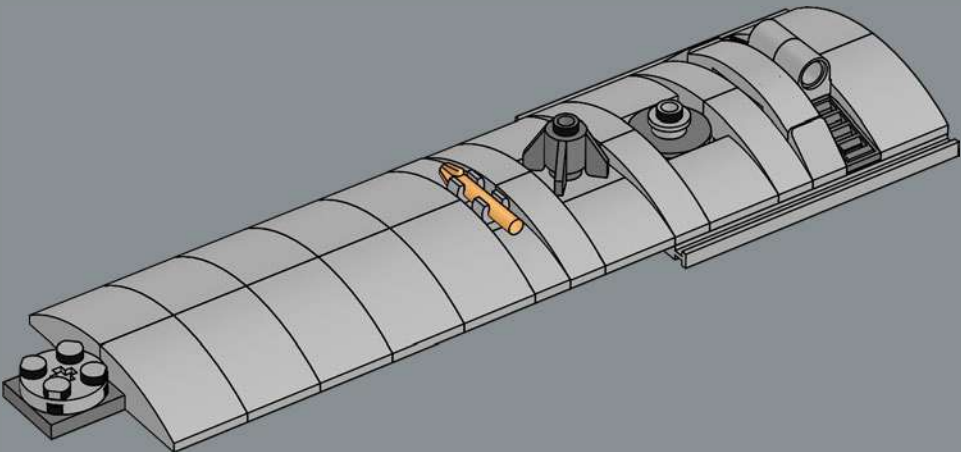
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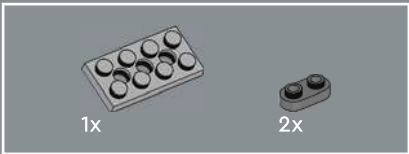
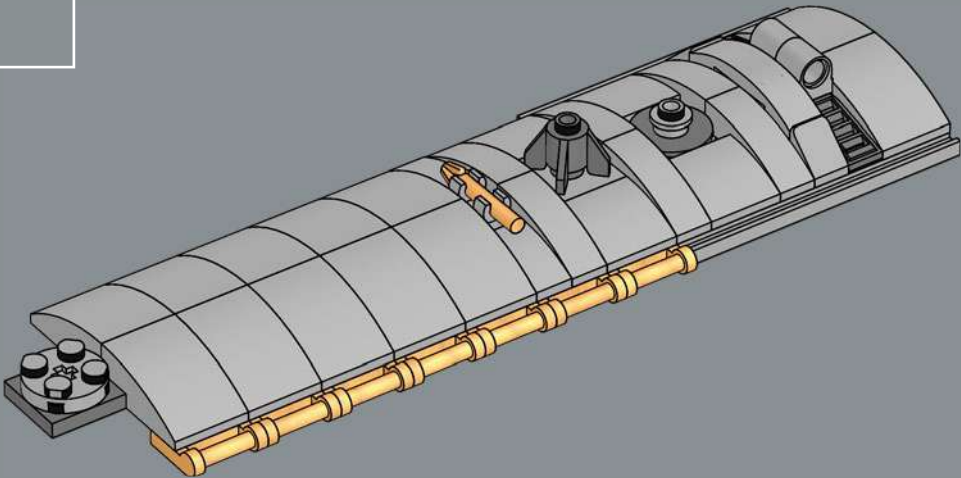


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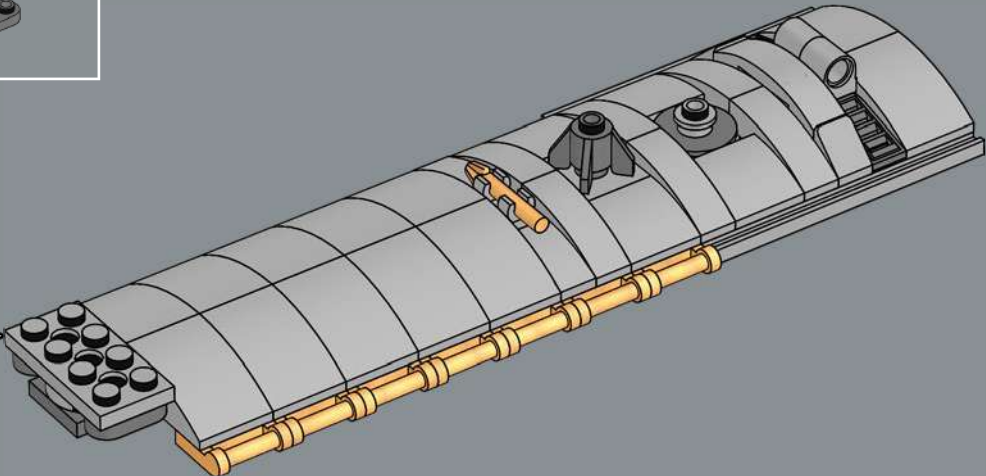
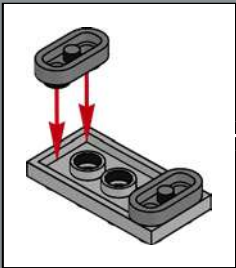




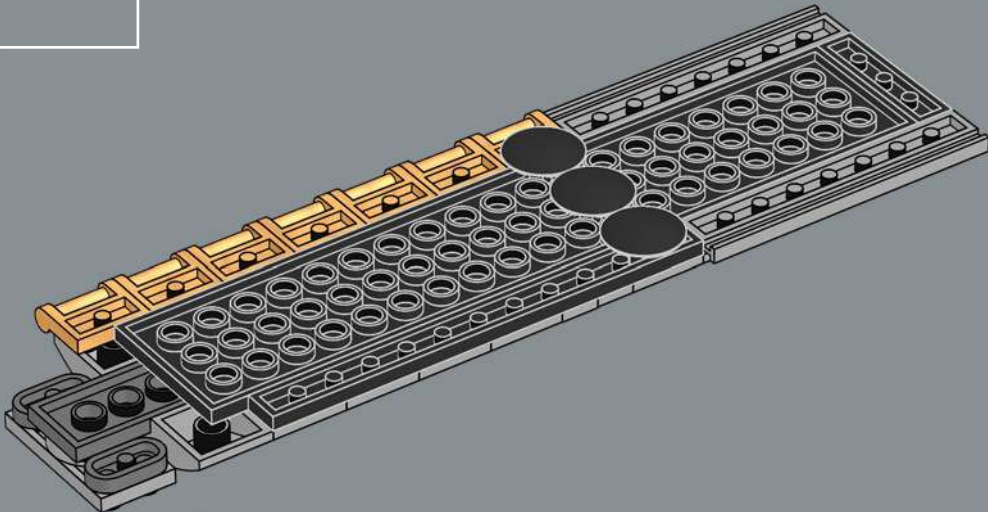
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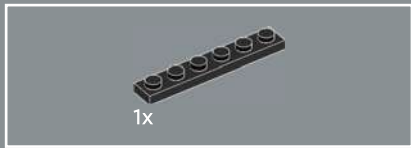


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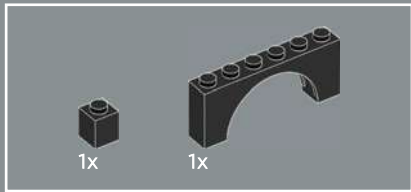
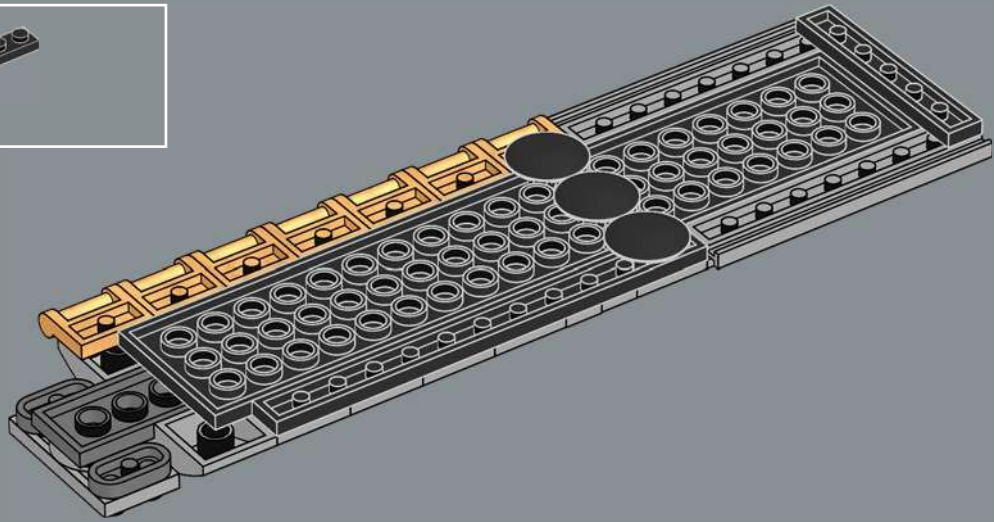


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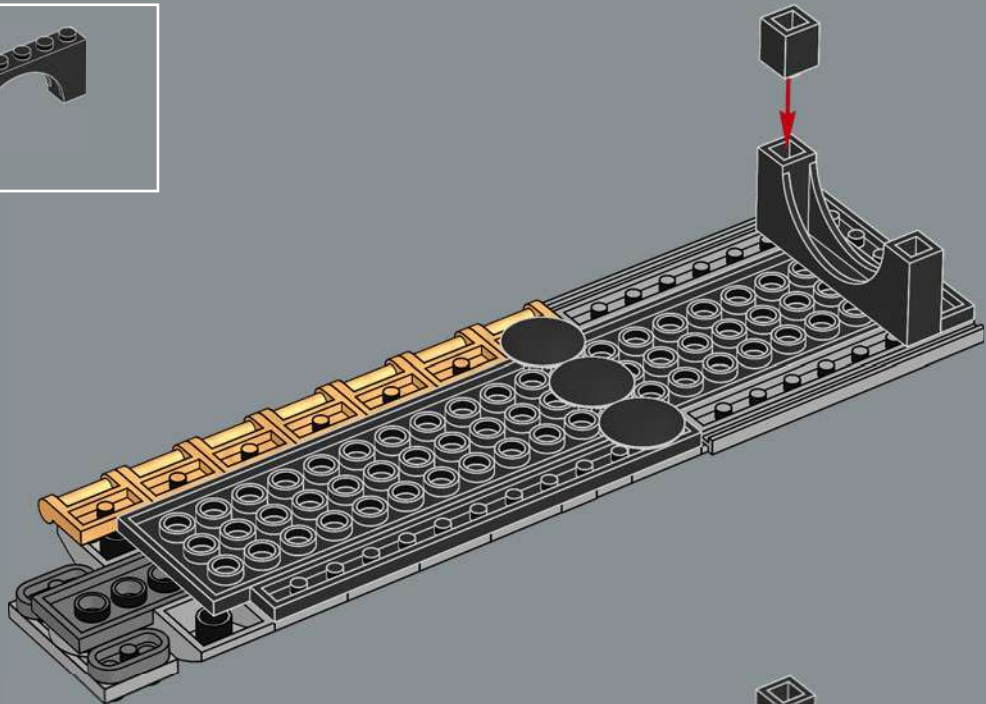




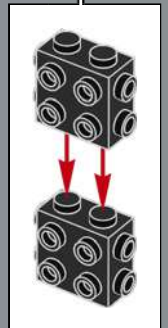
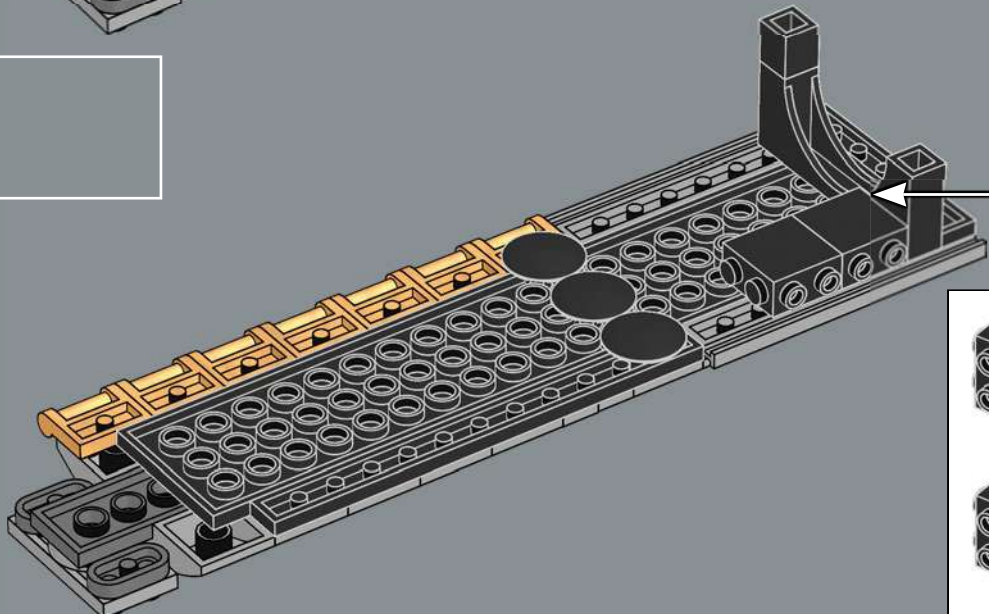
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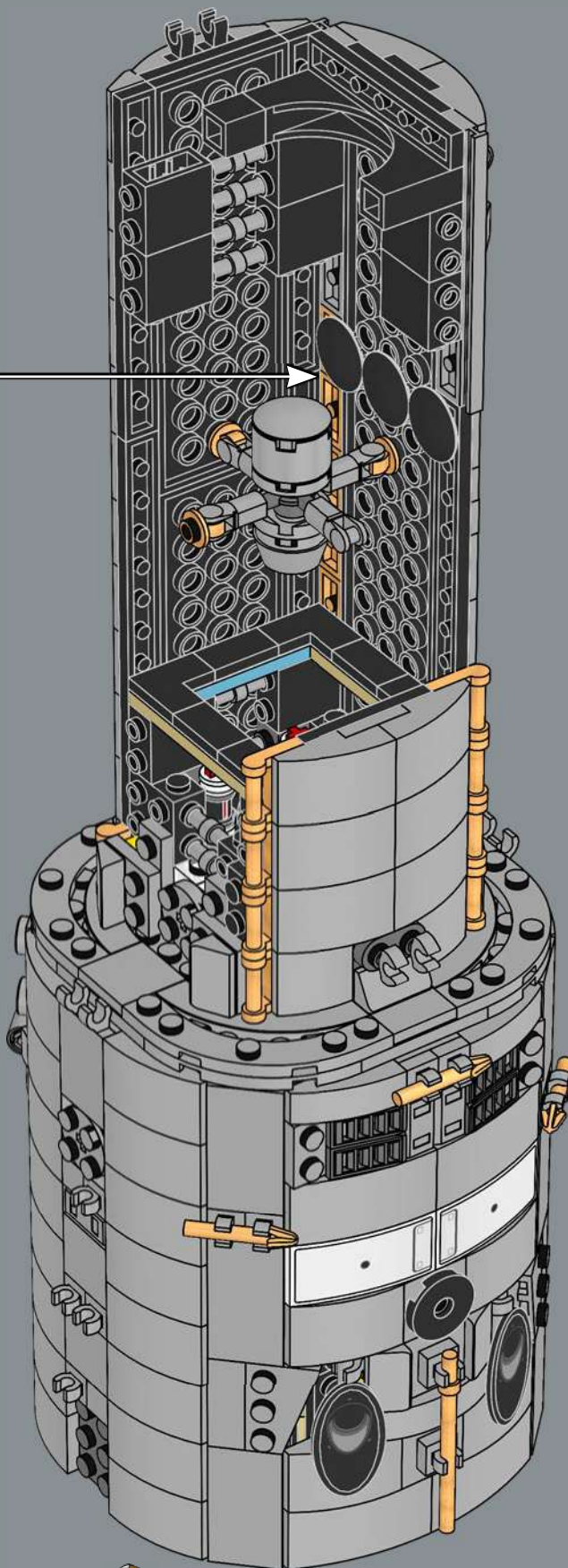
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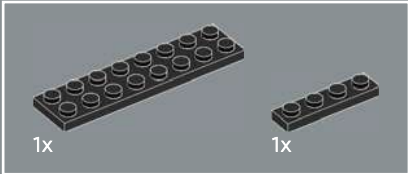
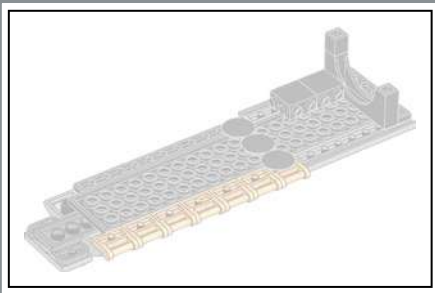


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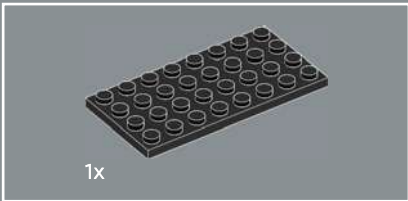
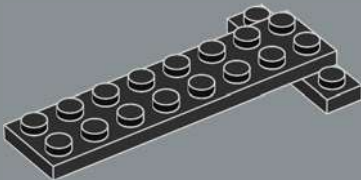


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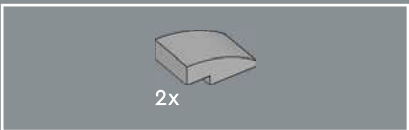
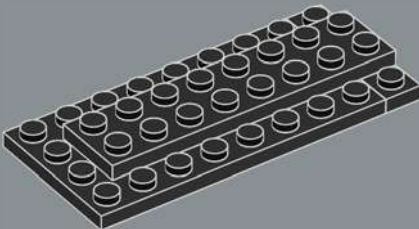




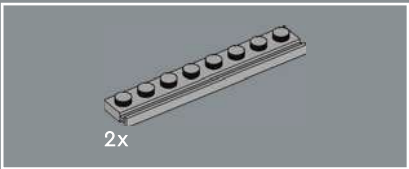
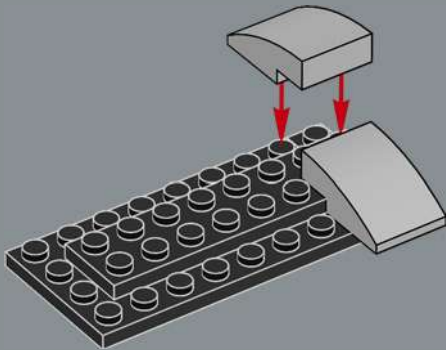
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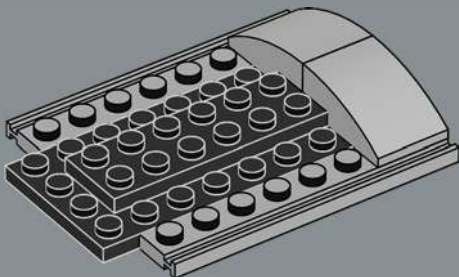
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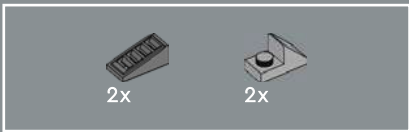


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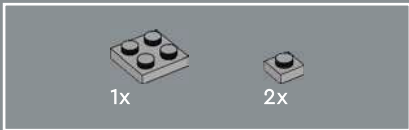
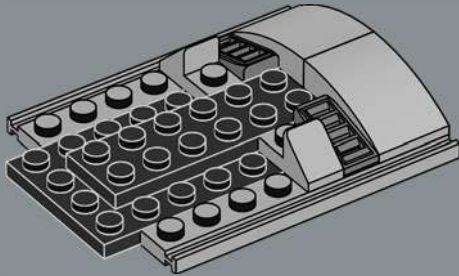


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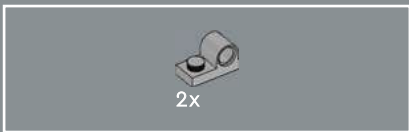
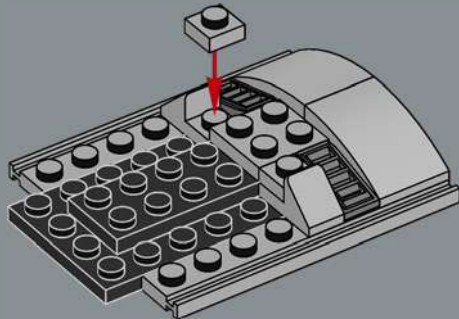




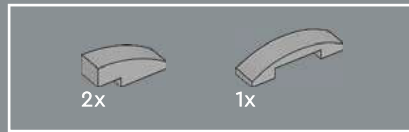
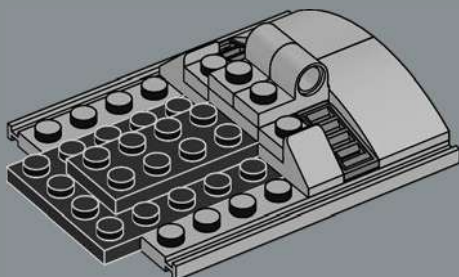
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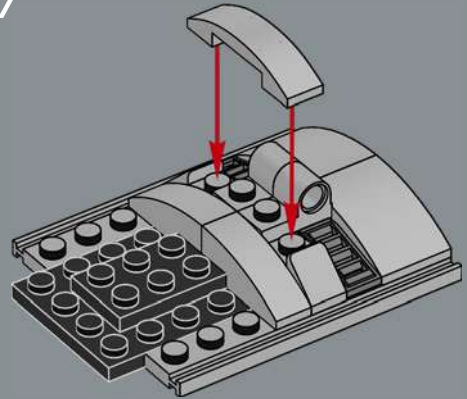
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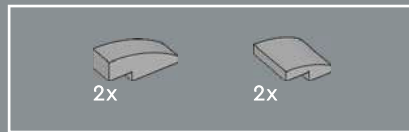
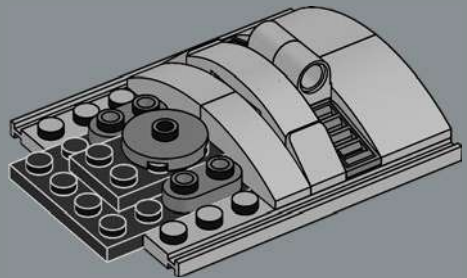
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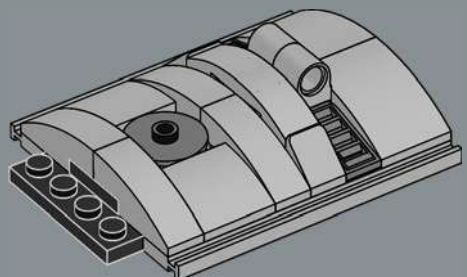
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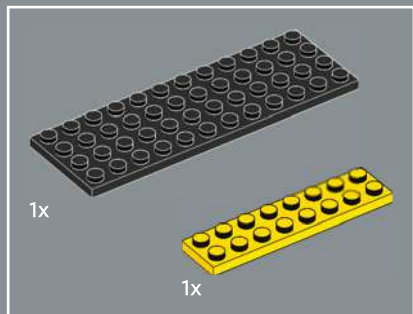


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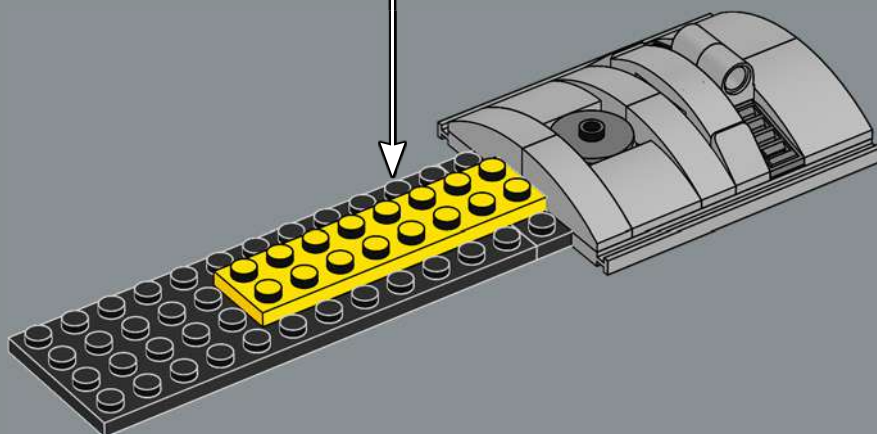
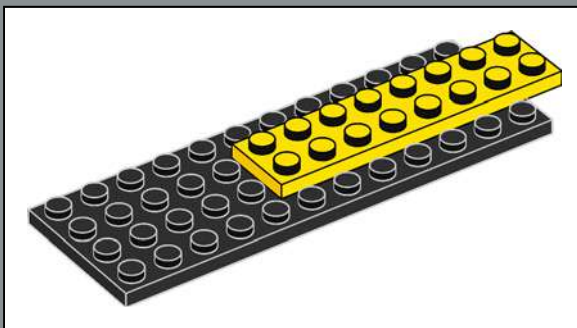


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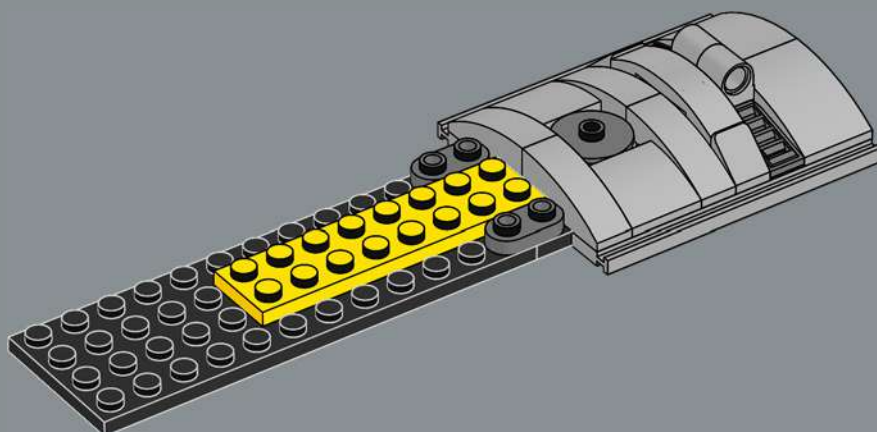


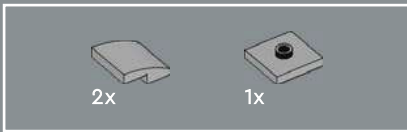


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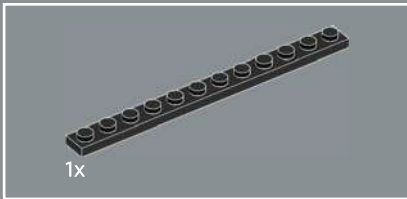
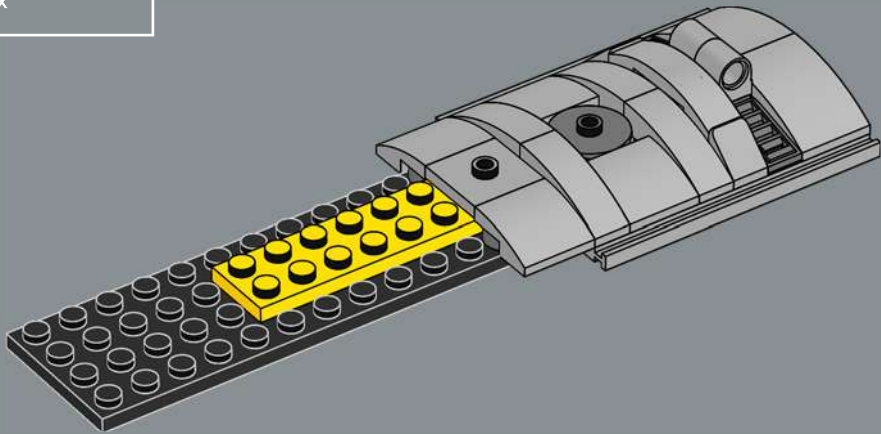


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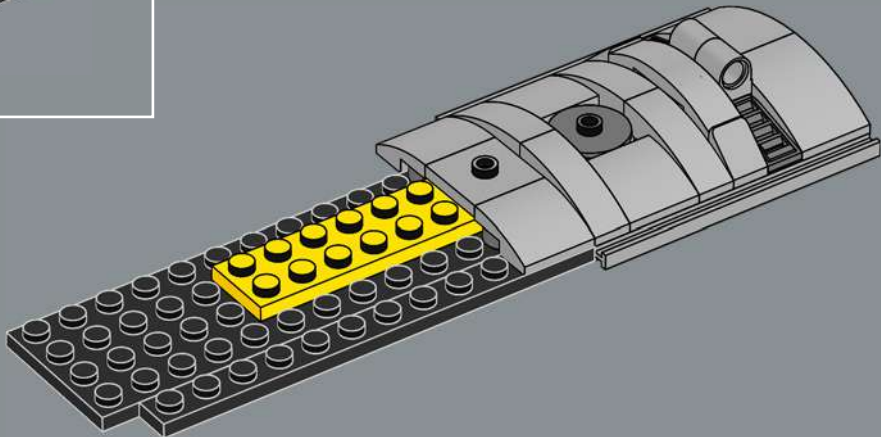




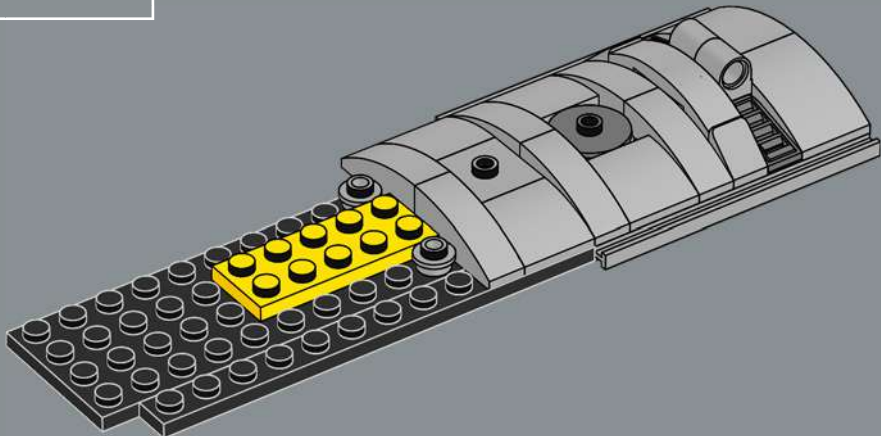
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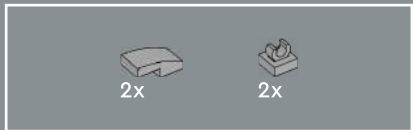


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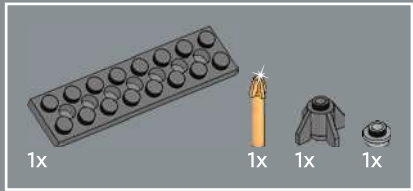
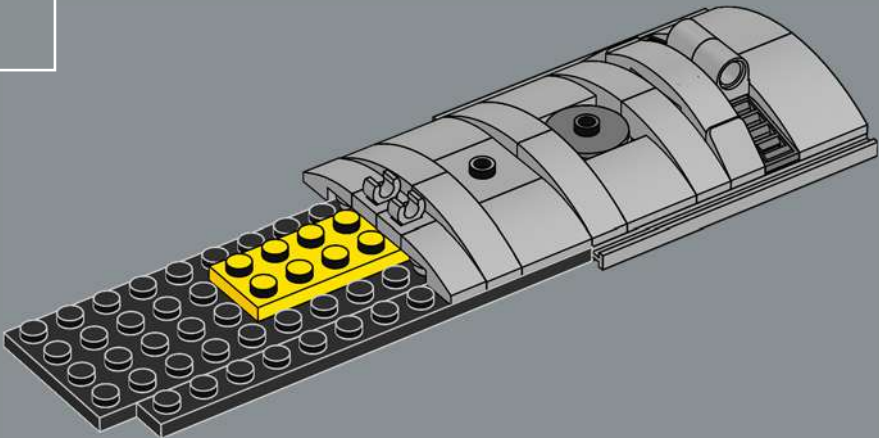


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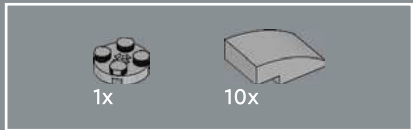
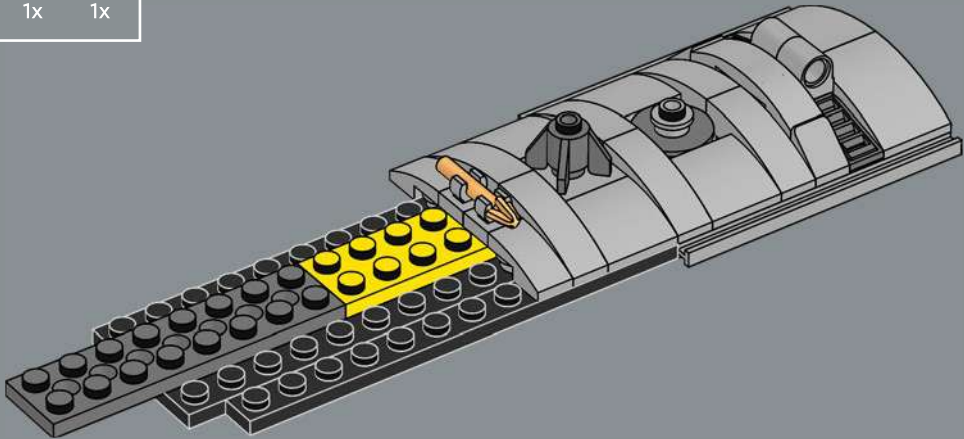




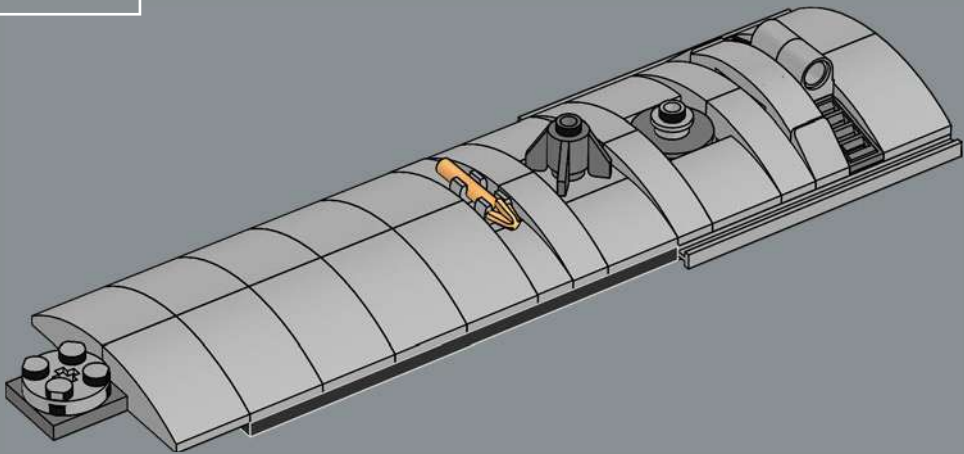
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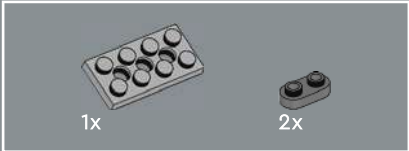
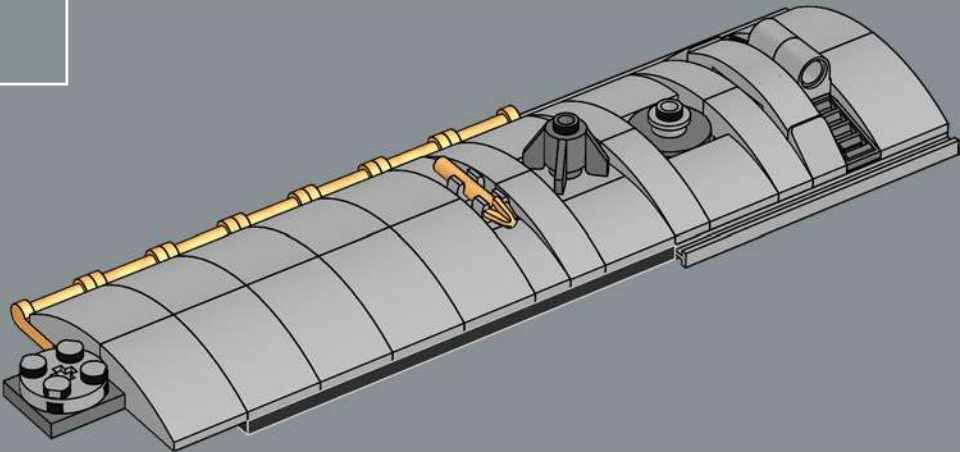


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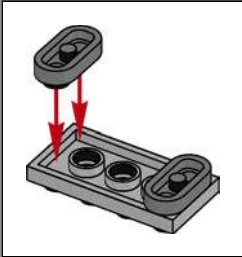
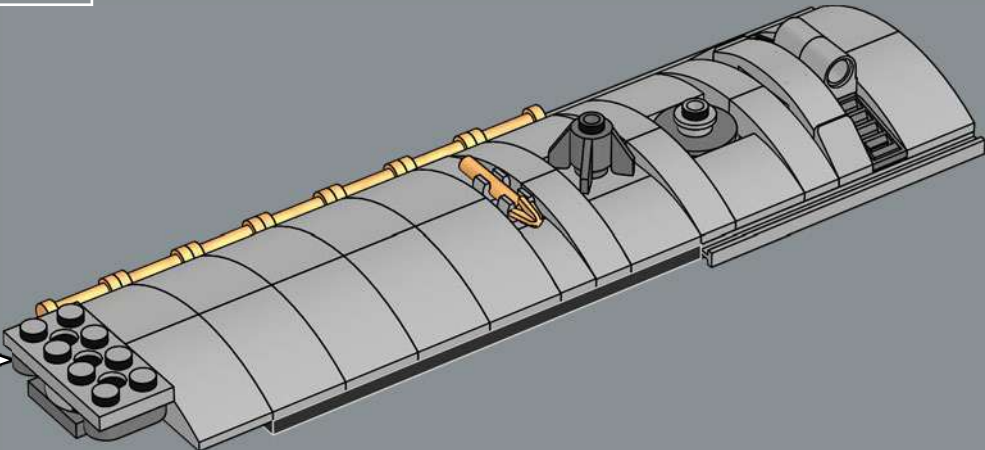




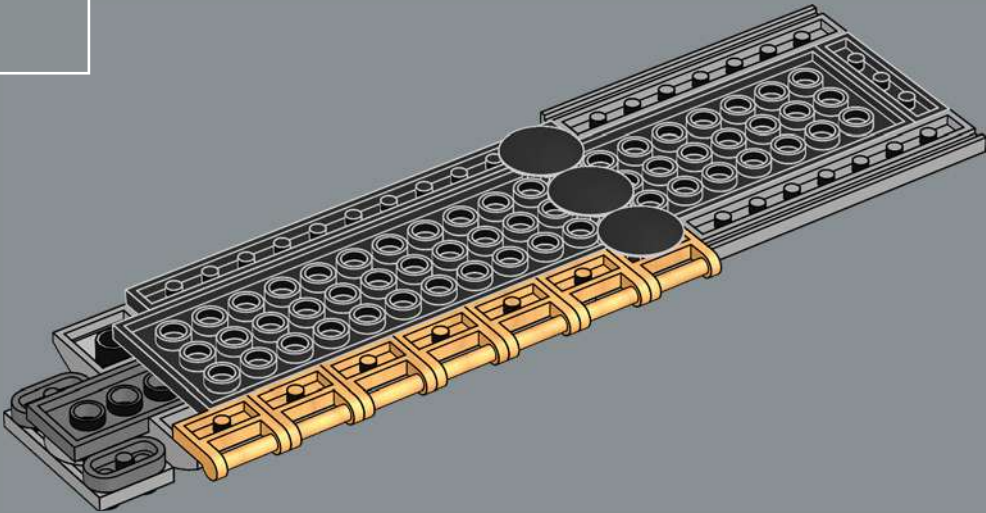
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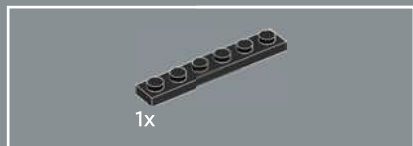


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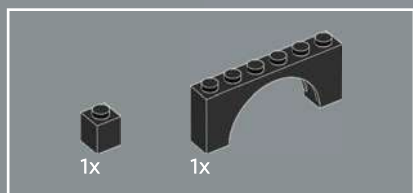
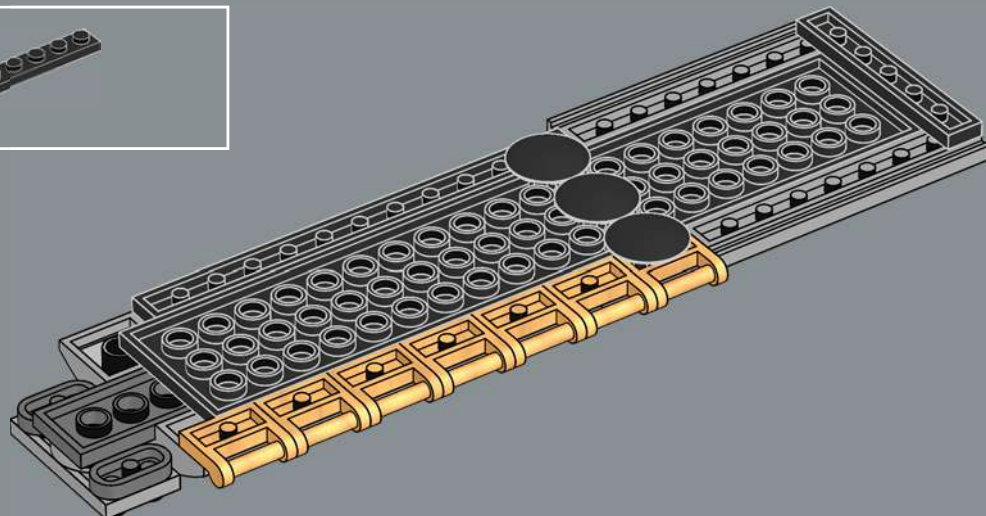


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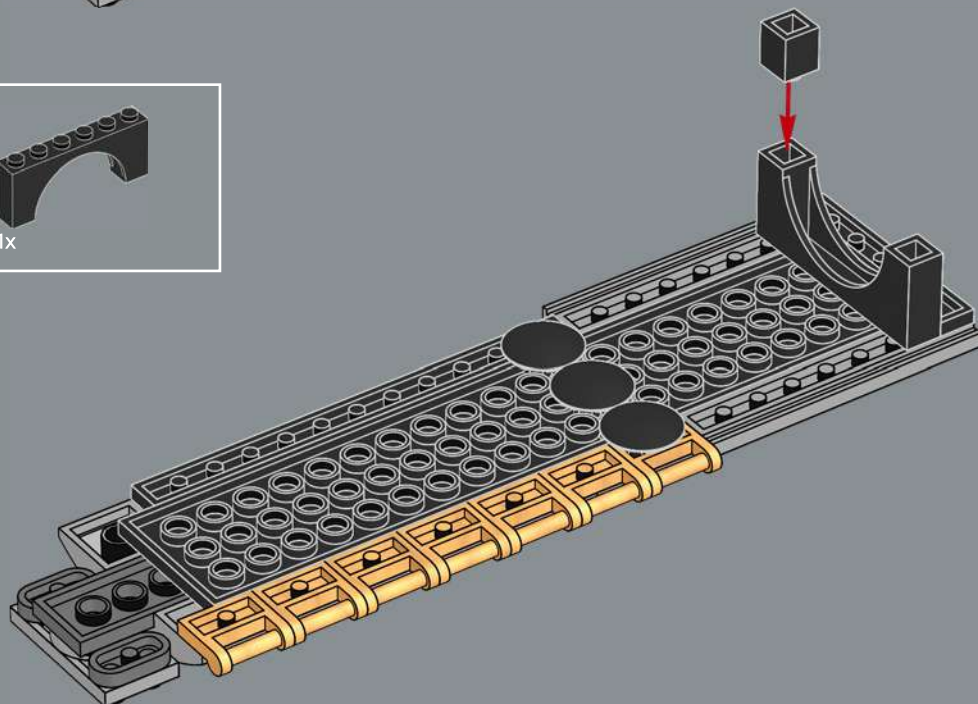




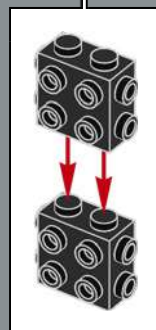
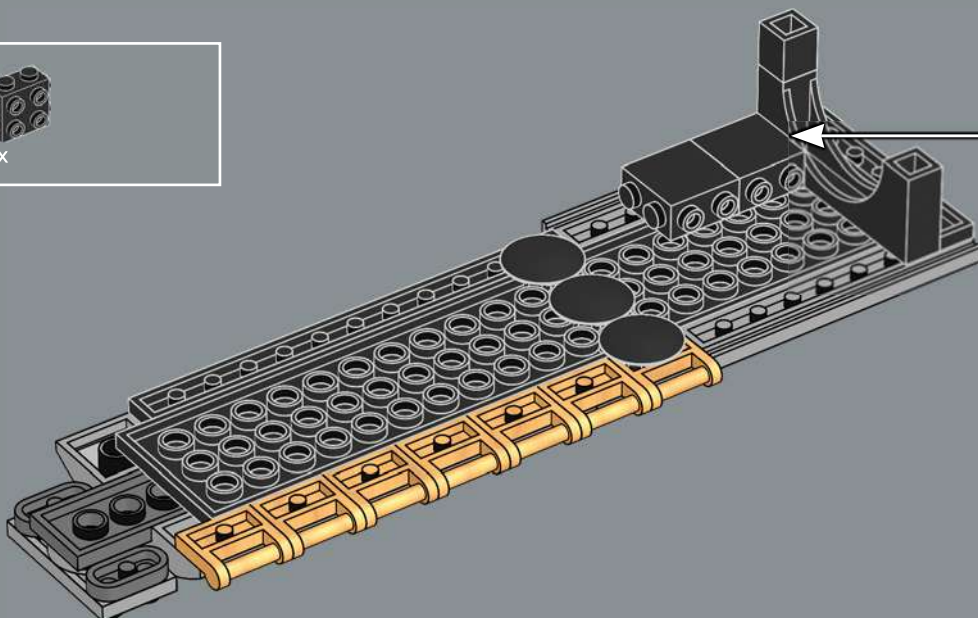
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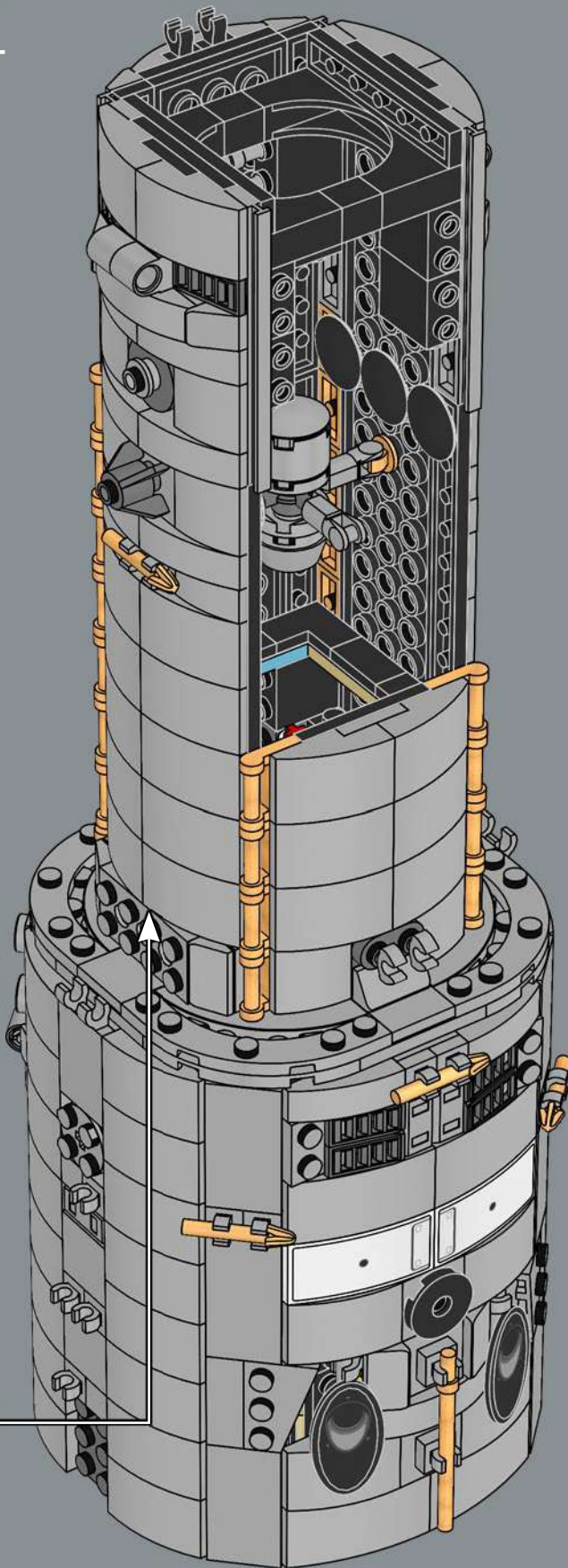
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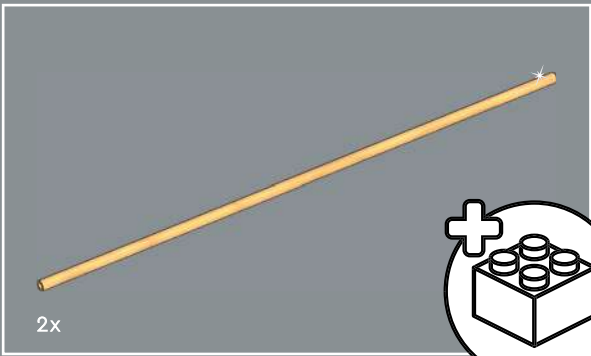


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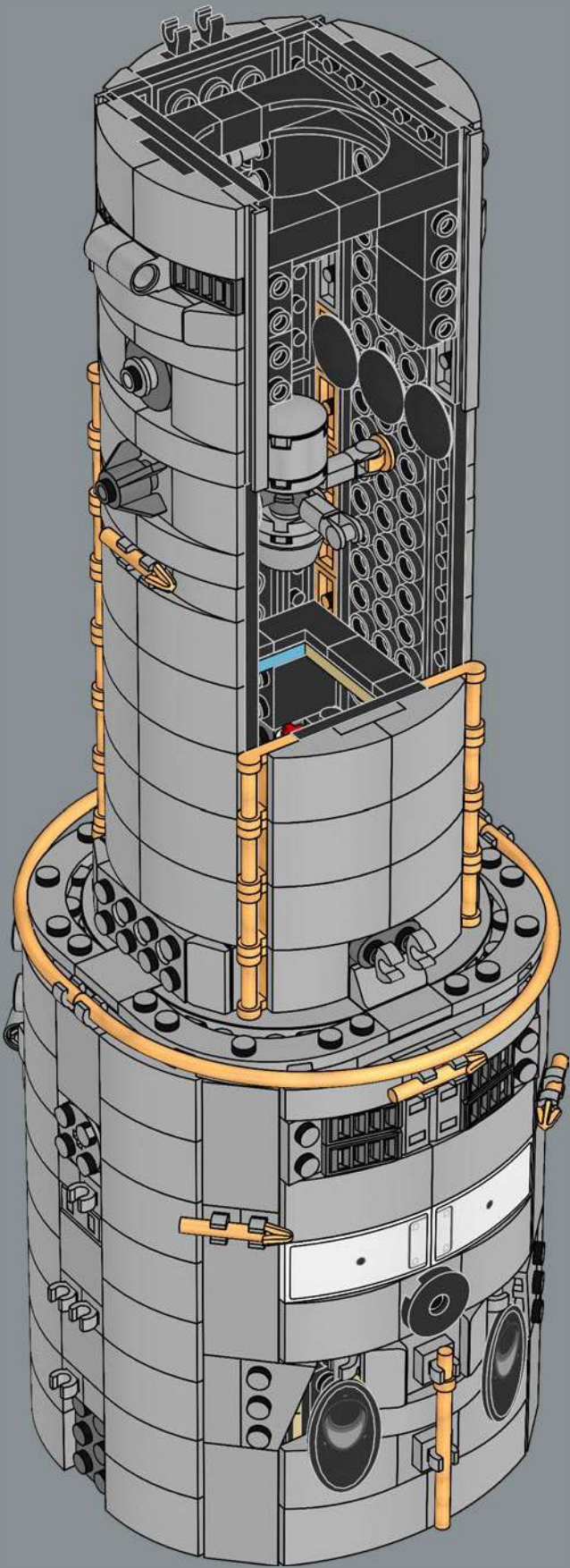


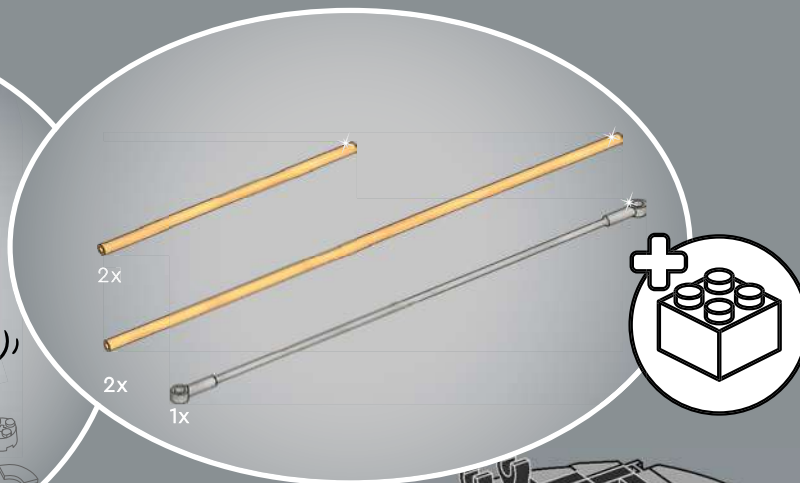
Hubble confirmed that the universe's expansion is accelerating – the first solid evidence for the mysterious force known as dark energy.



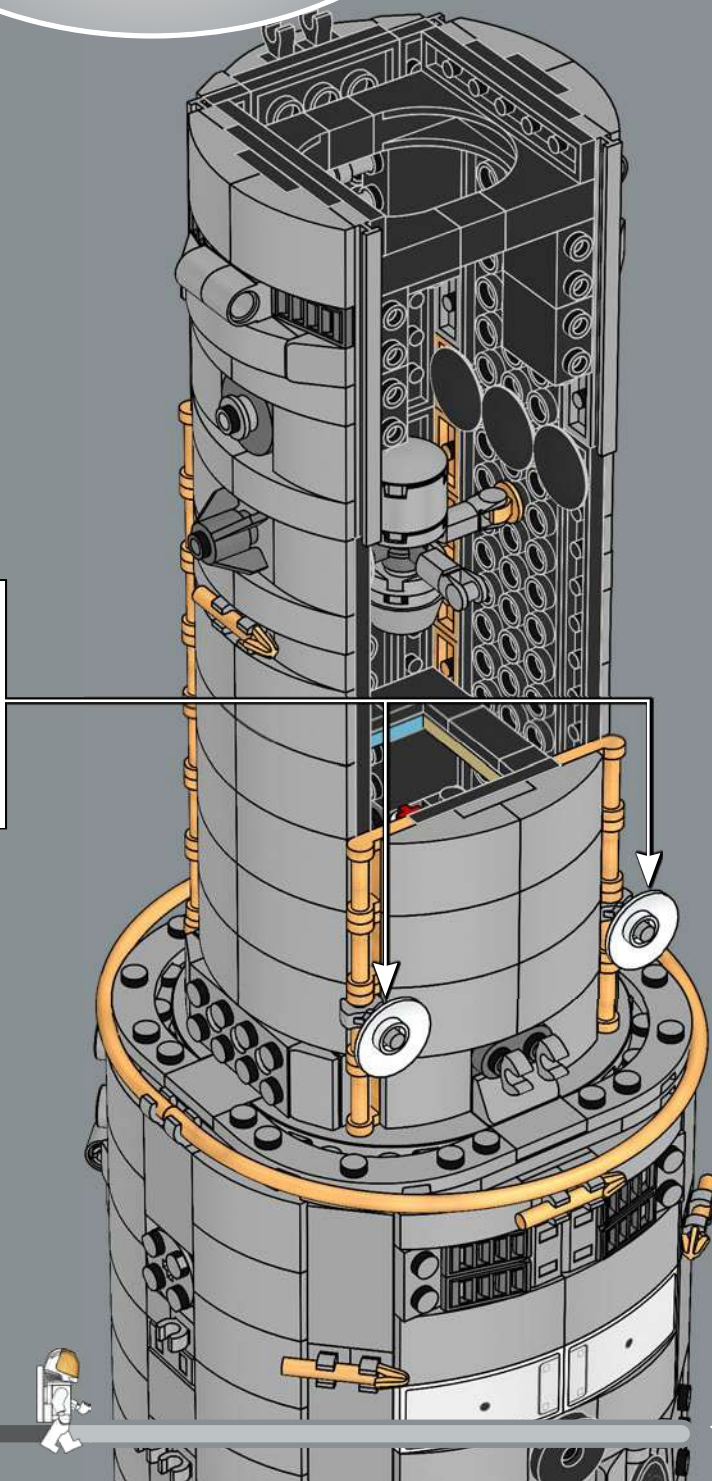
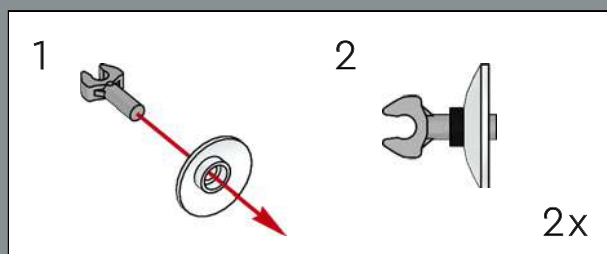


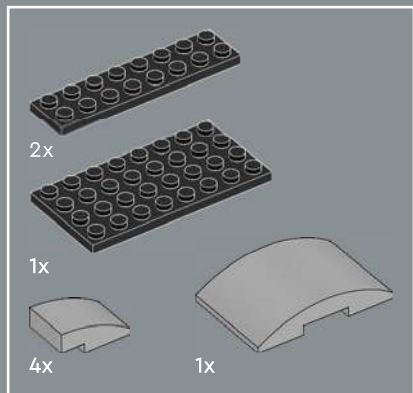
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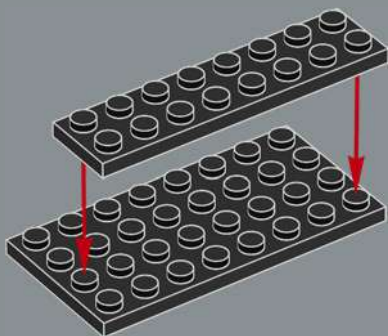
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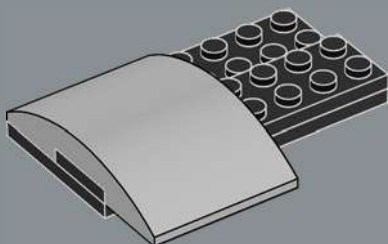


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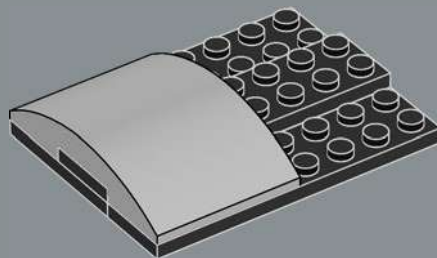
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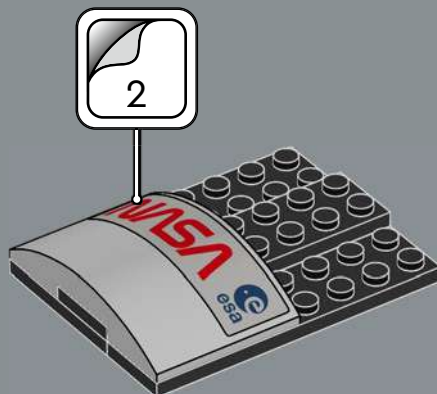
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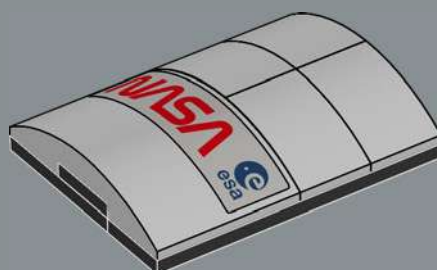
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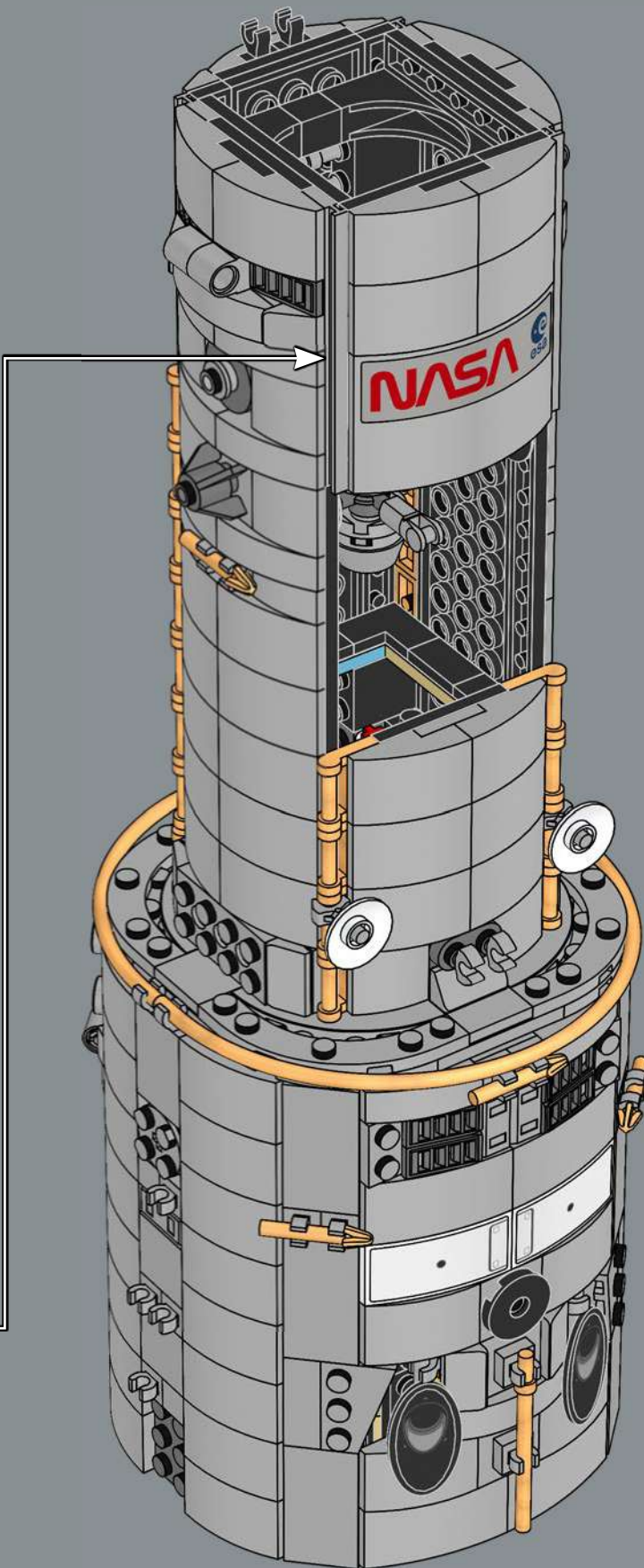
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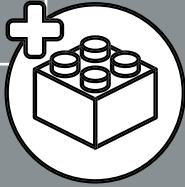
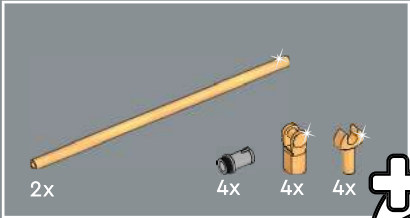


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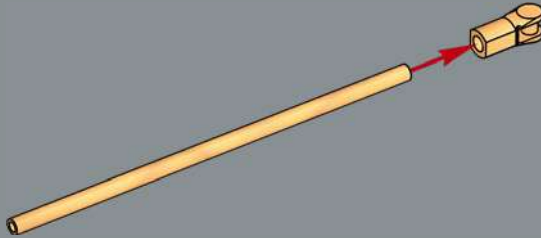
The telescope refined estimates of the Hubble constant, determining that the universe is approximately 13.8 billion years old.



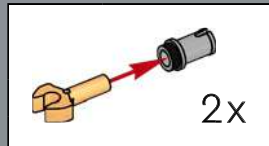
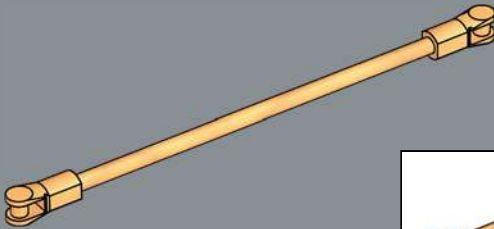


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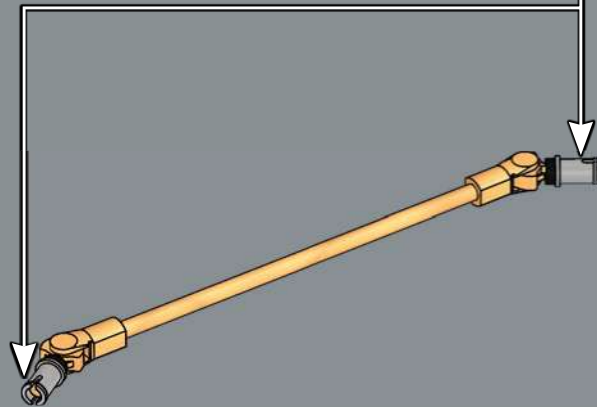
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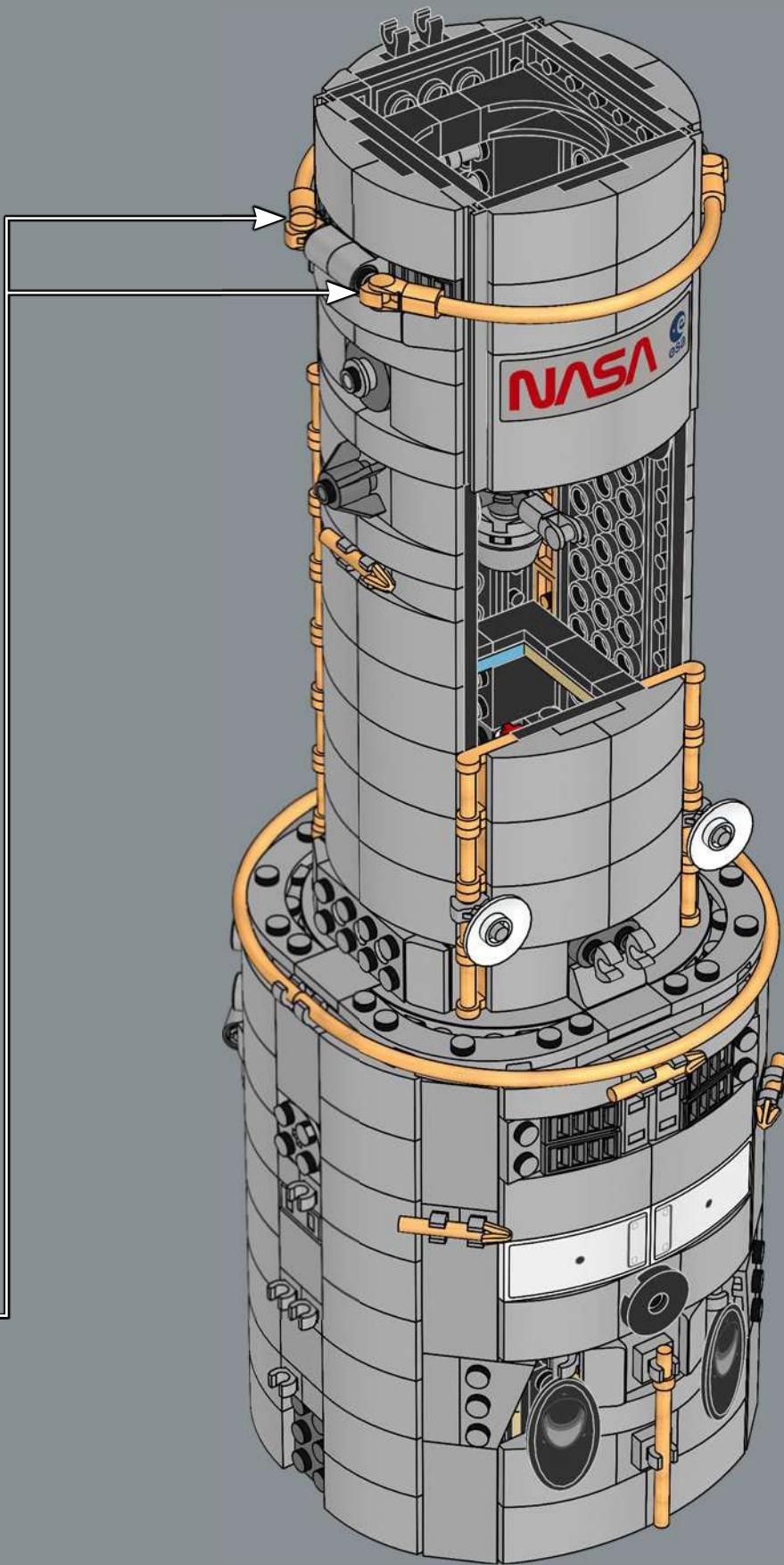
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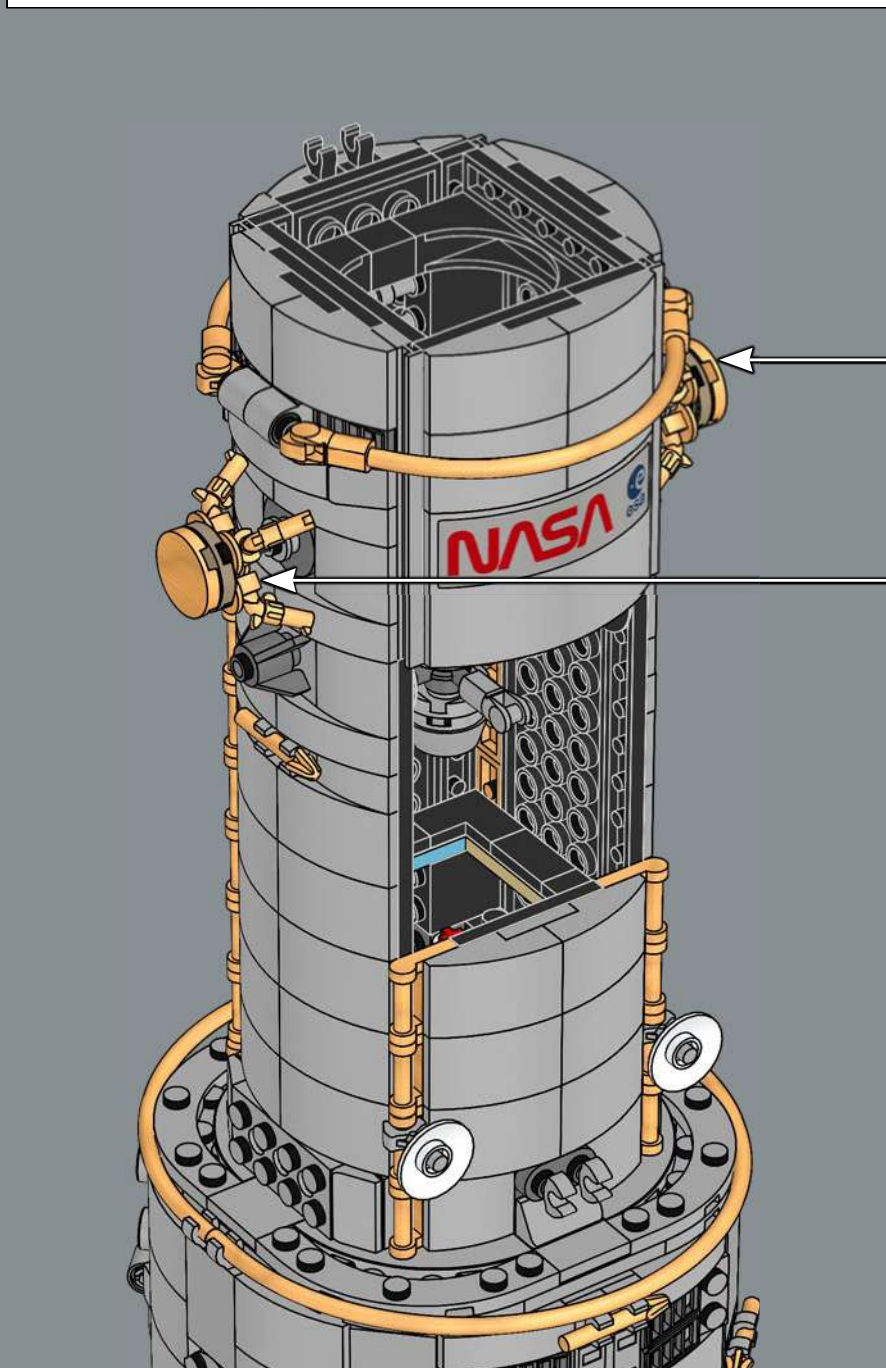


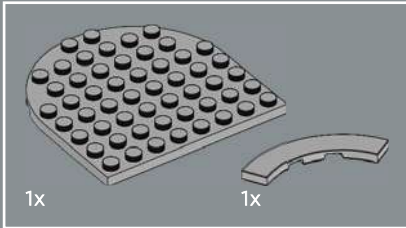
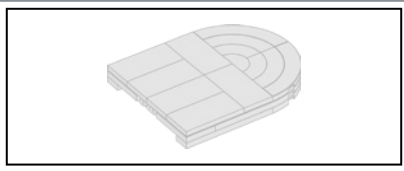
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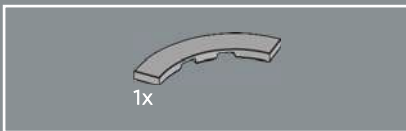
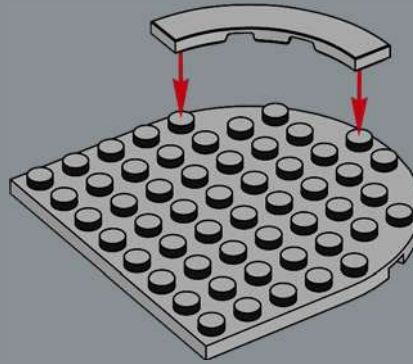
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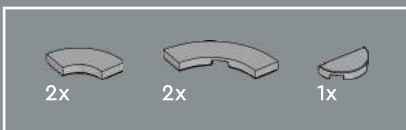
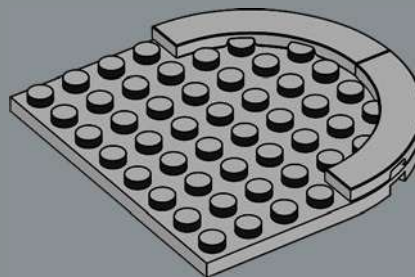




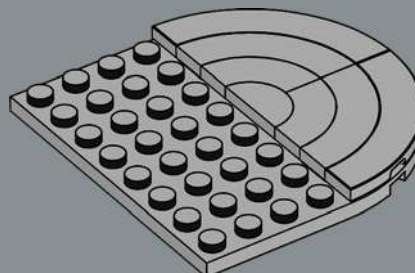
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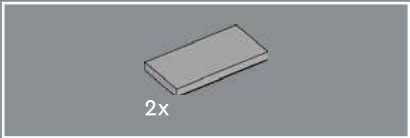


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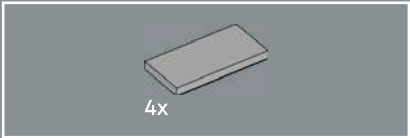
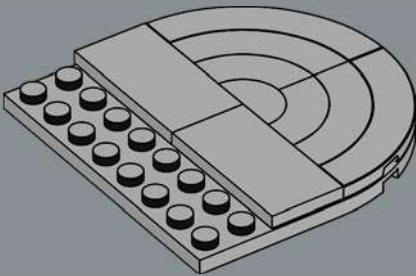


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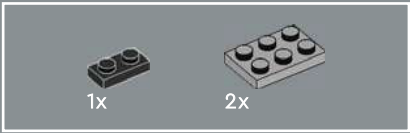
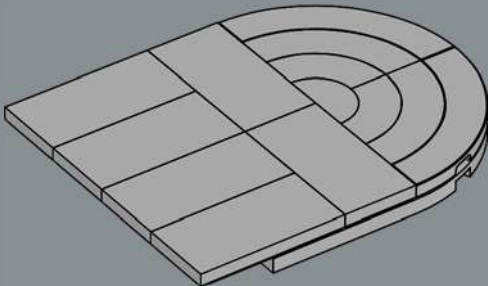




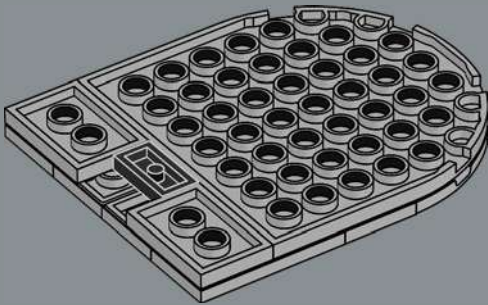
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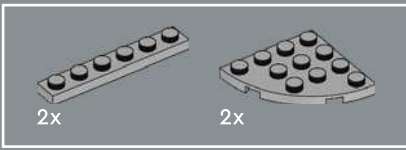


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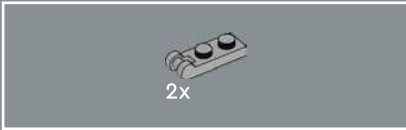
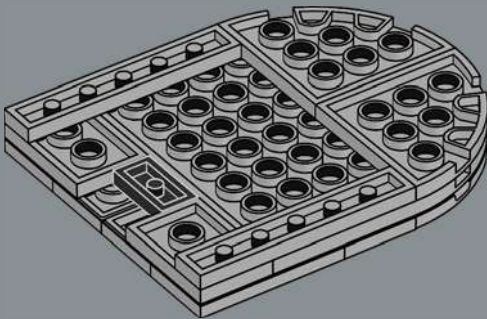


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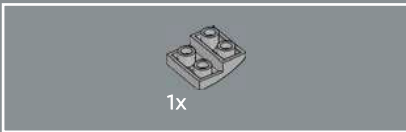
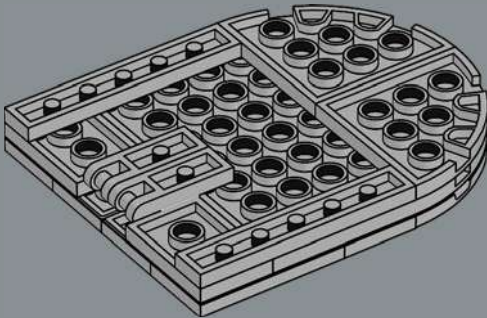




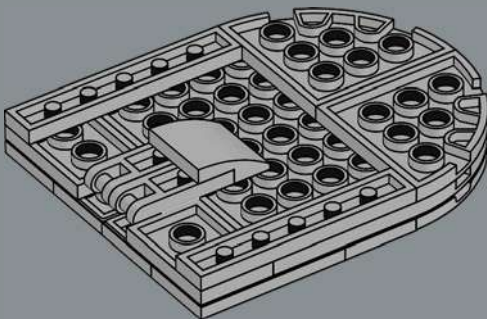
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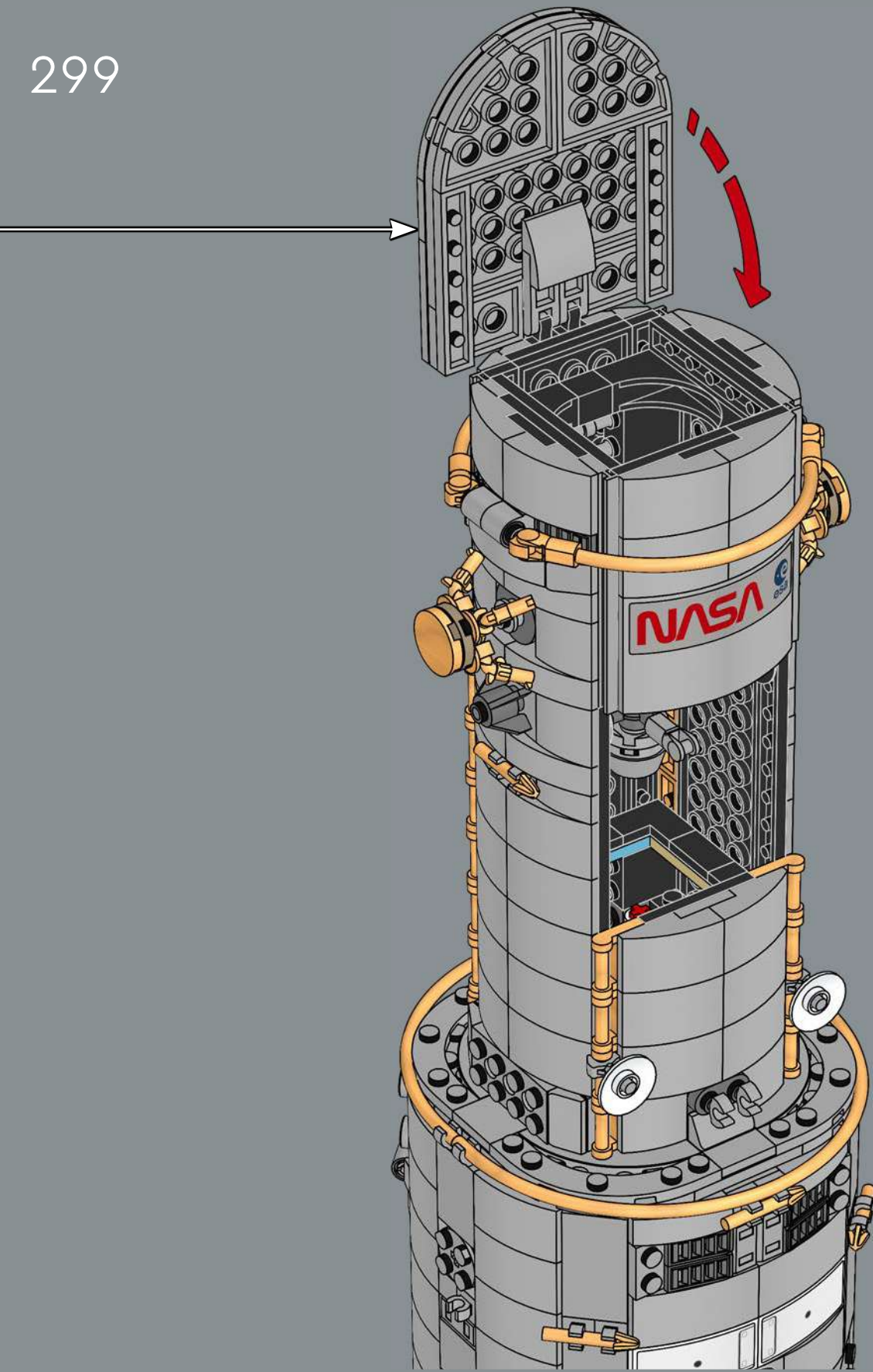


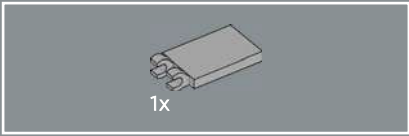
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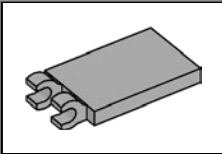
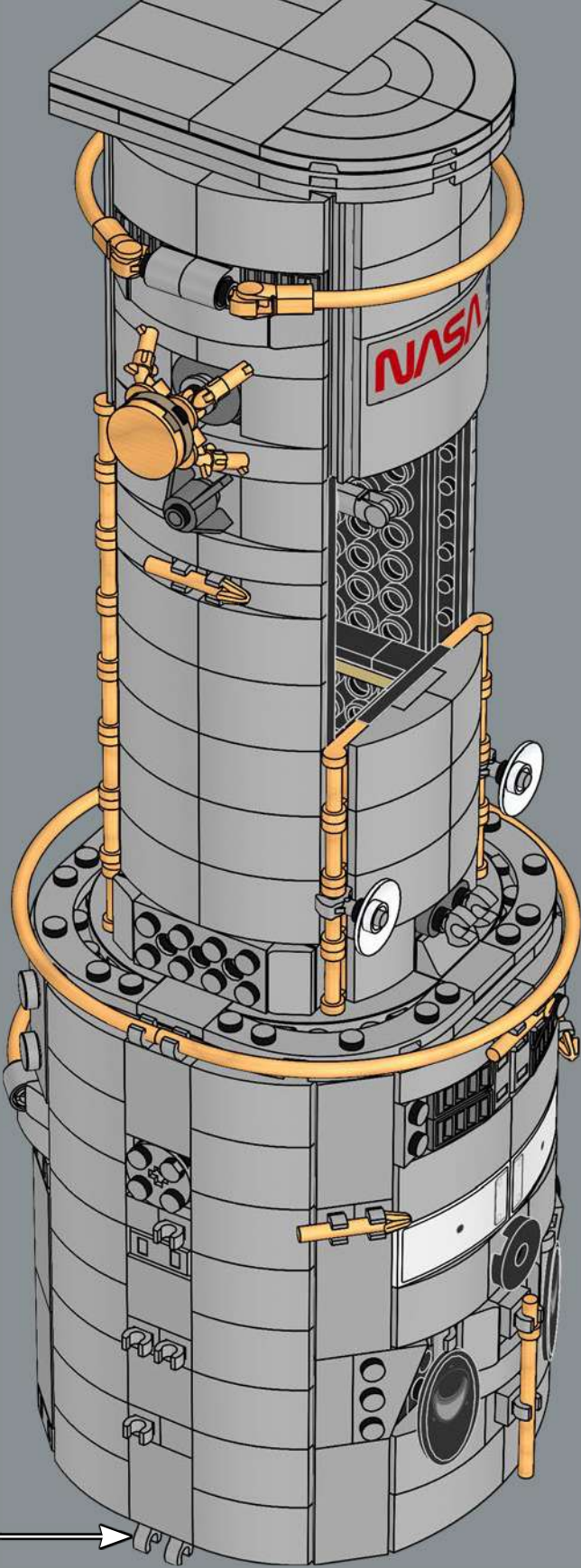
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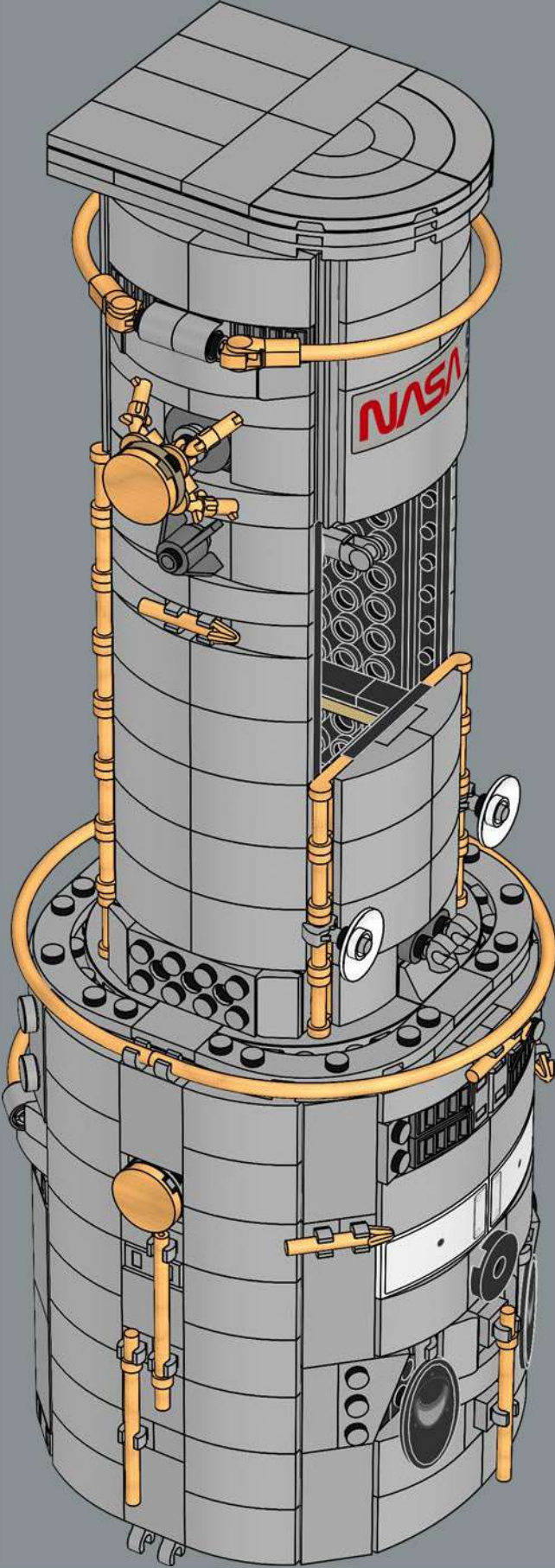


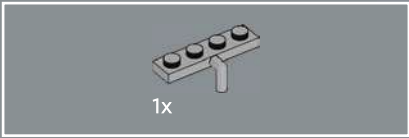
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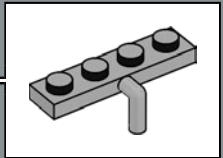
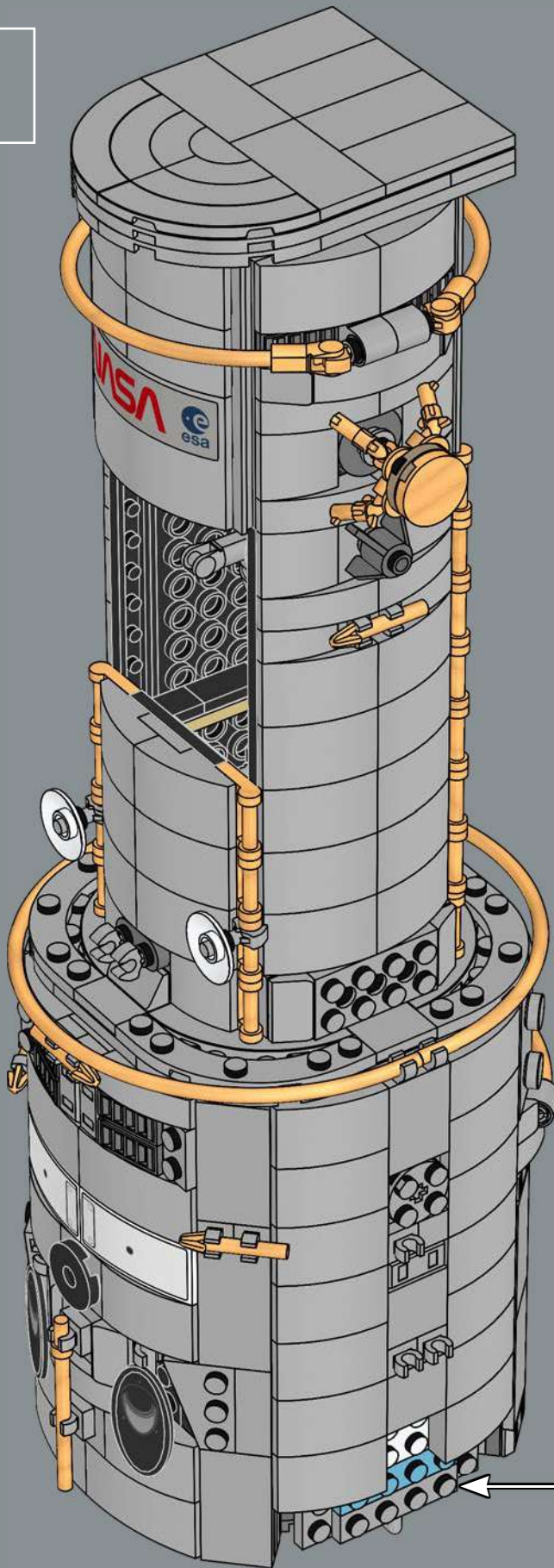


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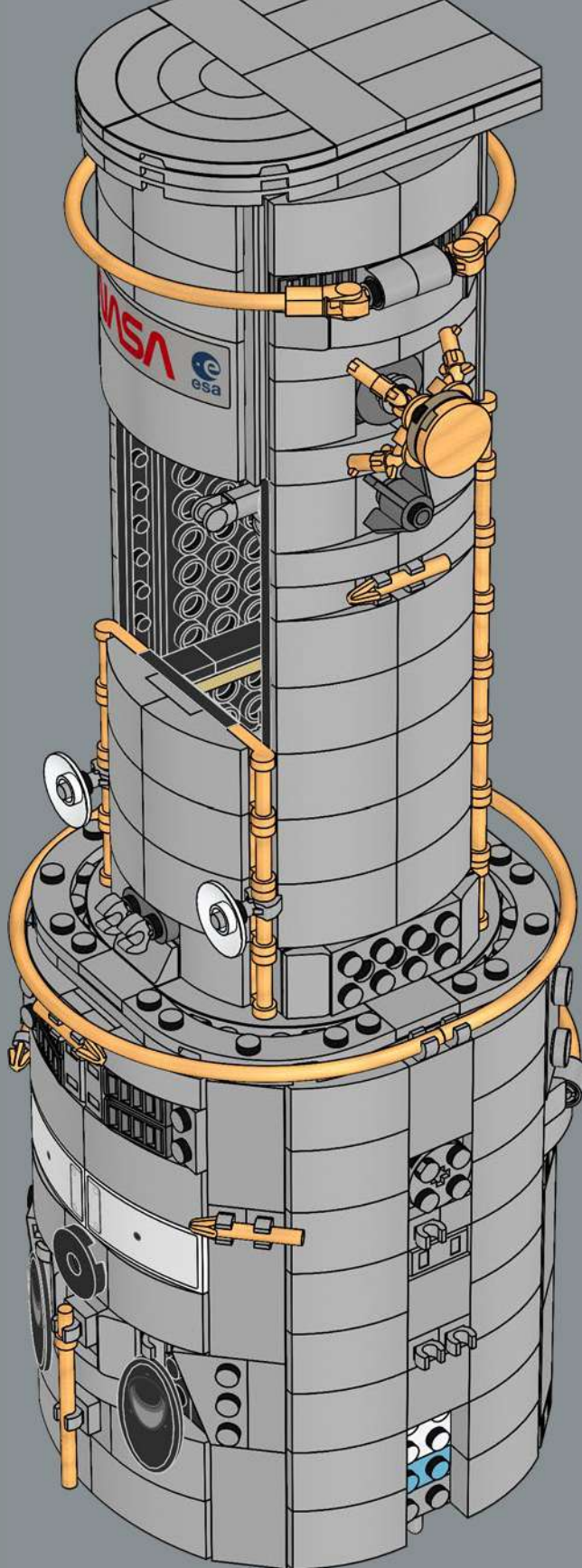
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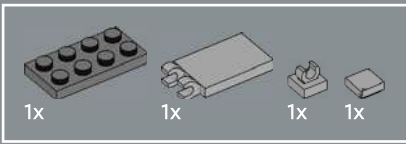




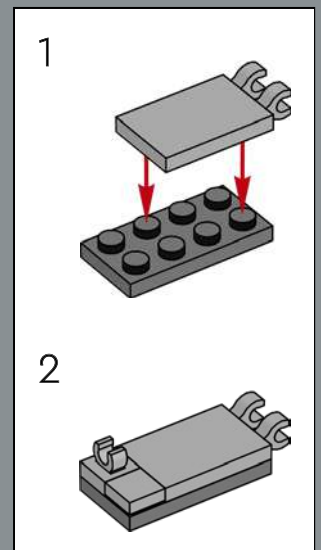
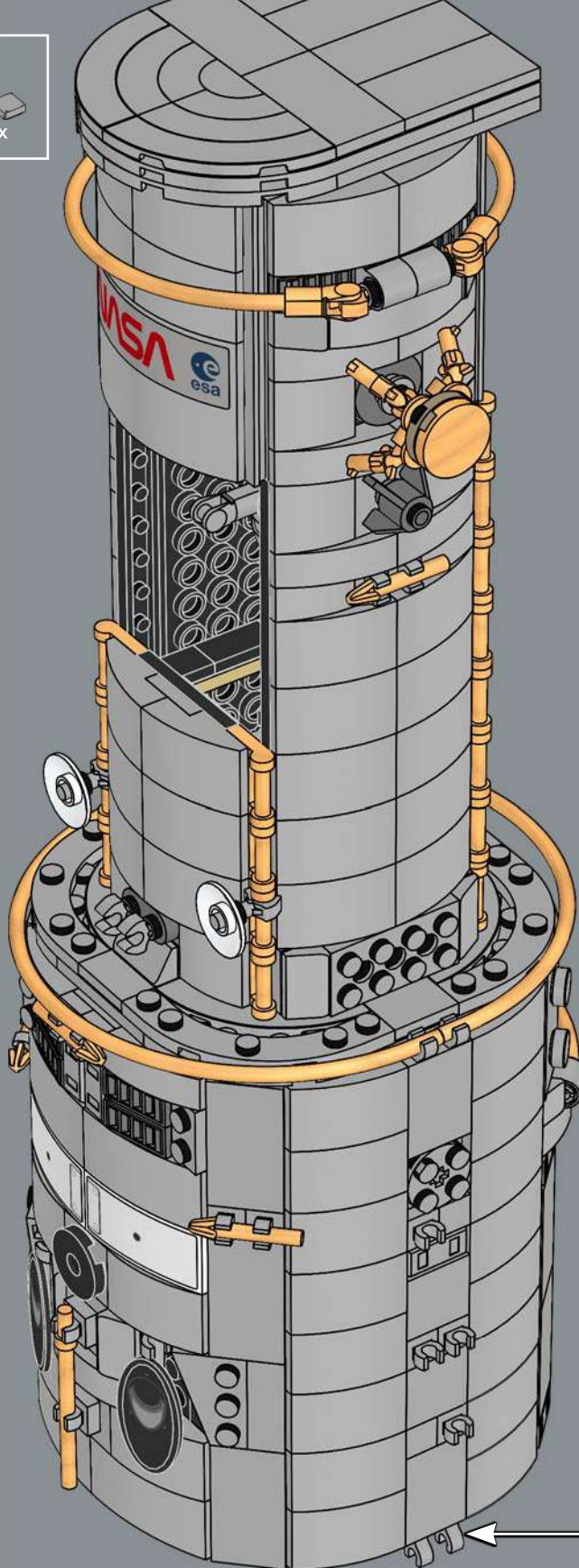
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303



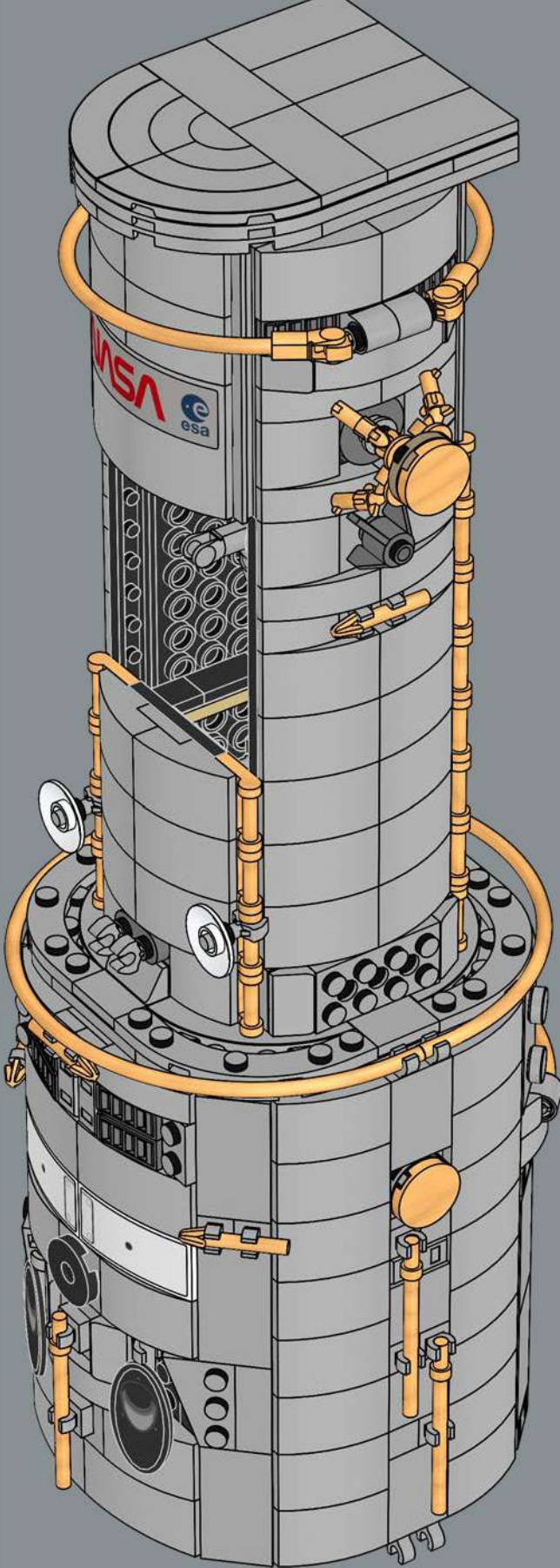


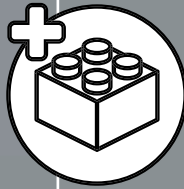
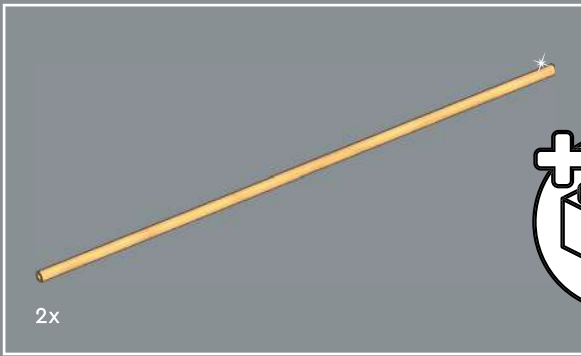
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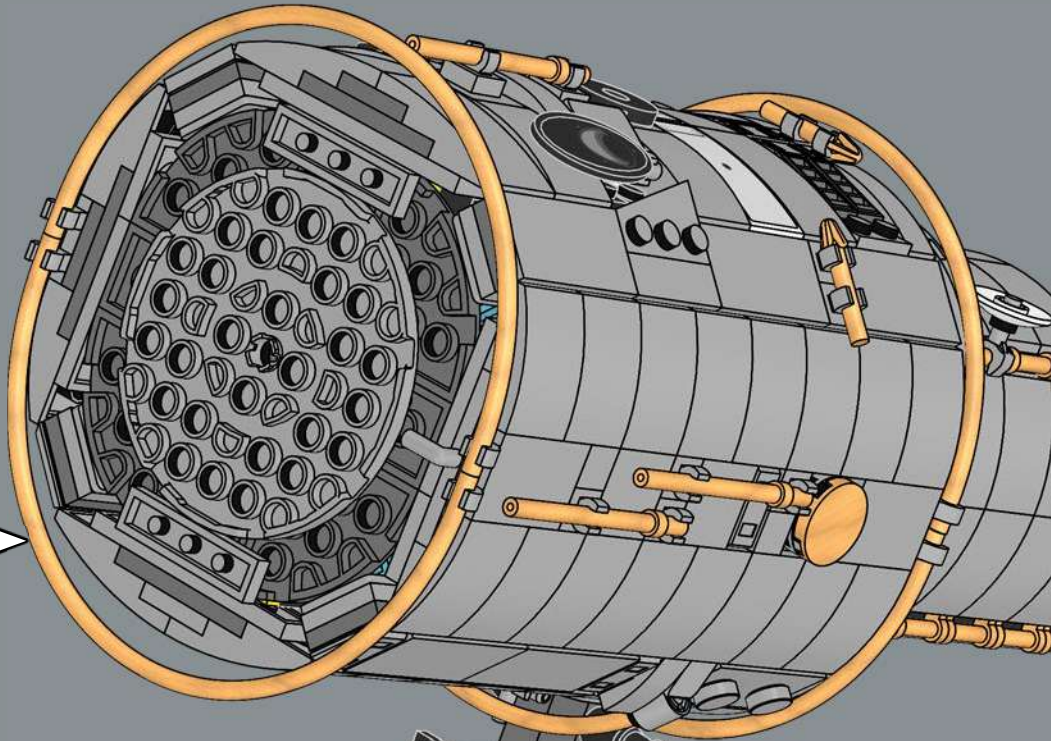


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306

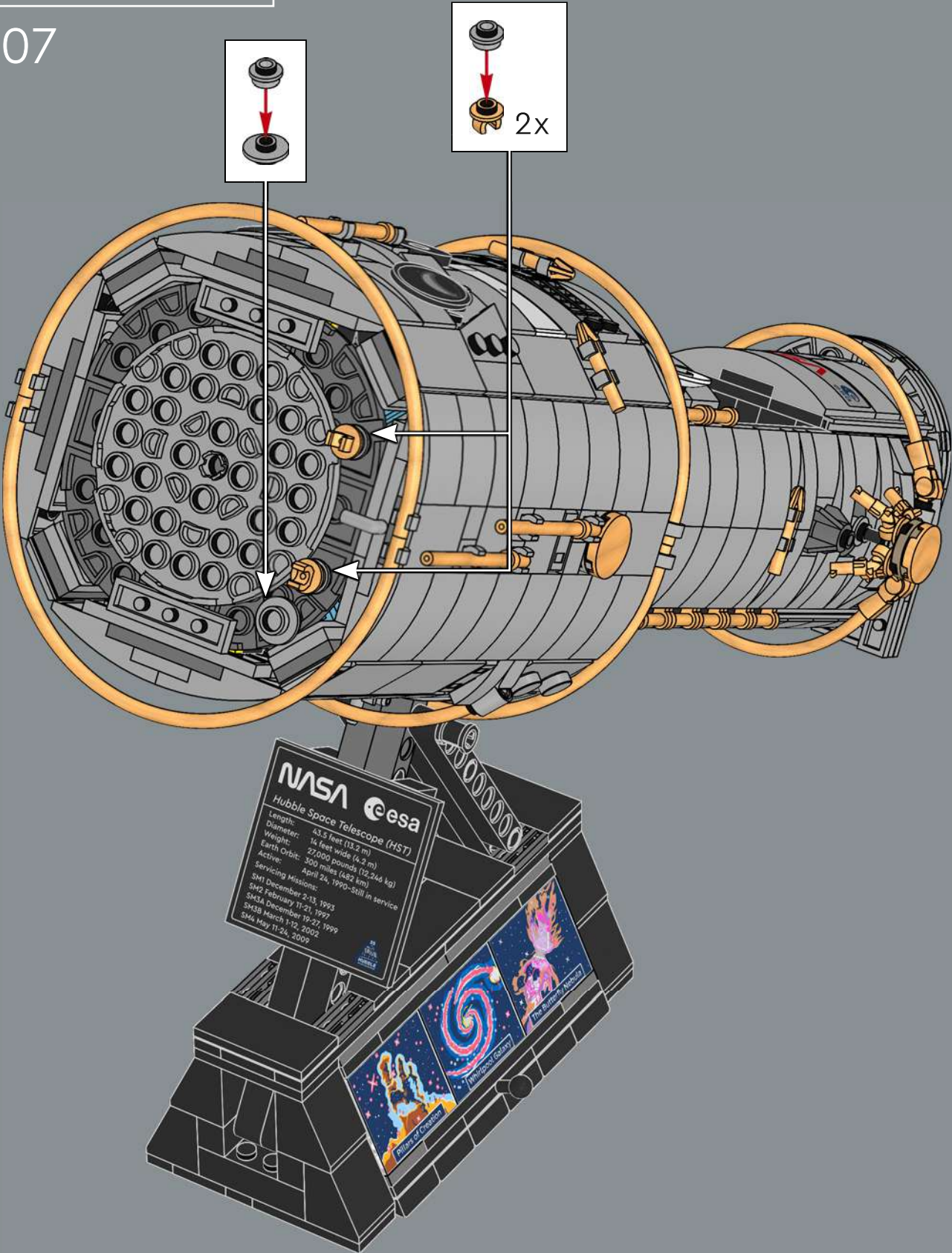


3x

2x

1x

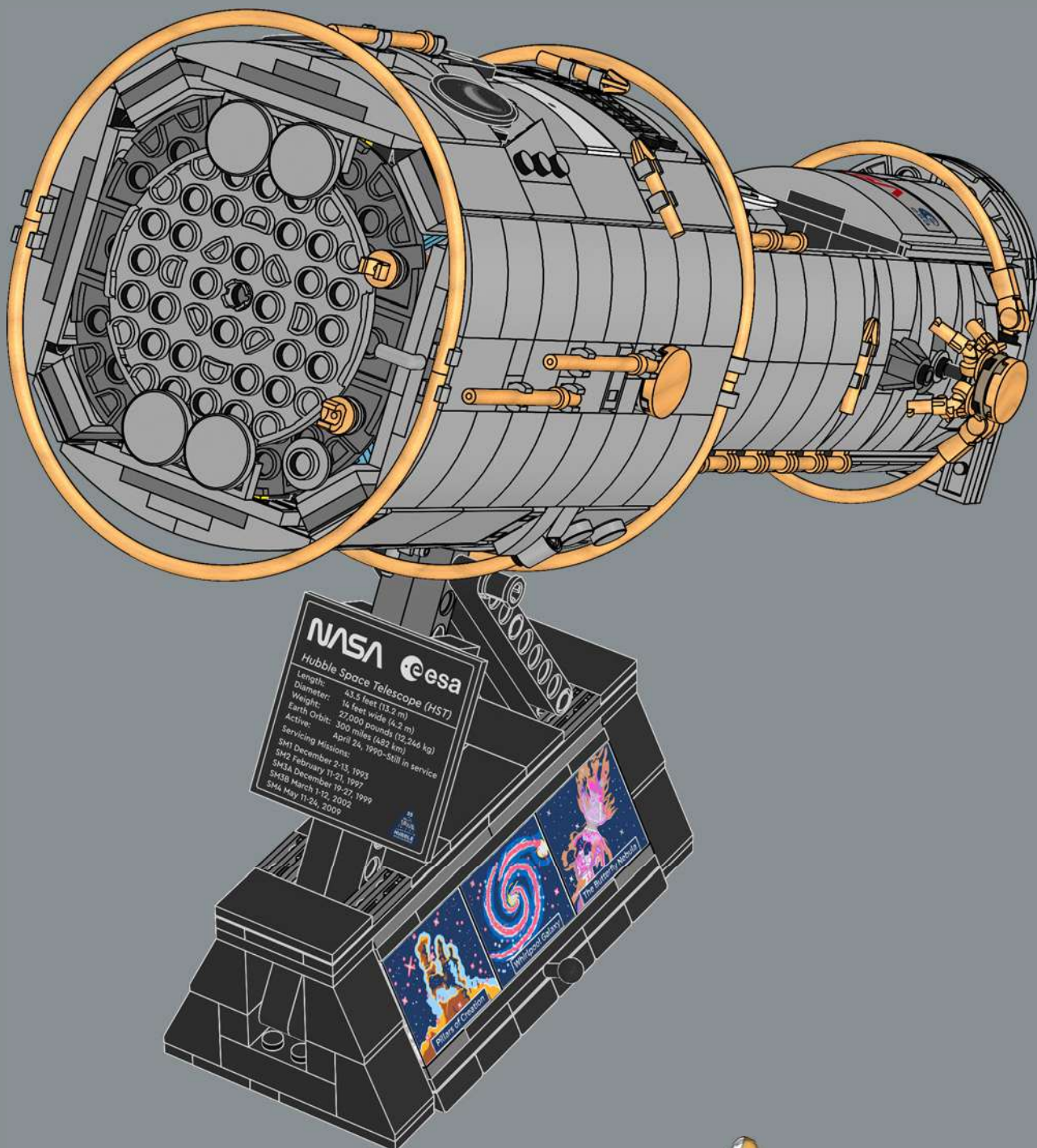
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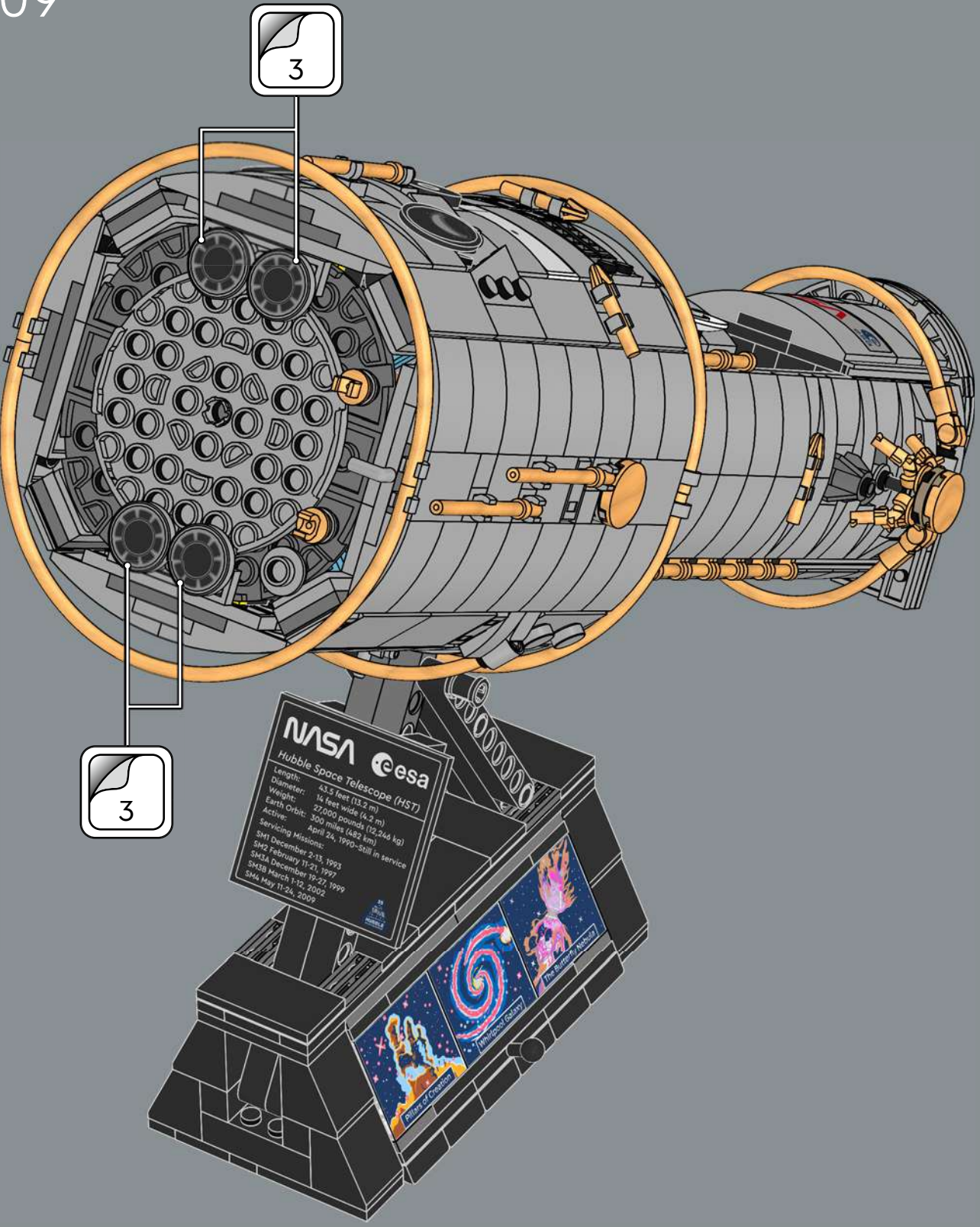


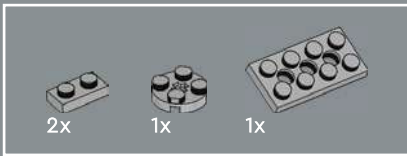


4x

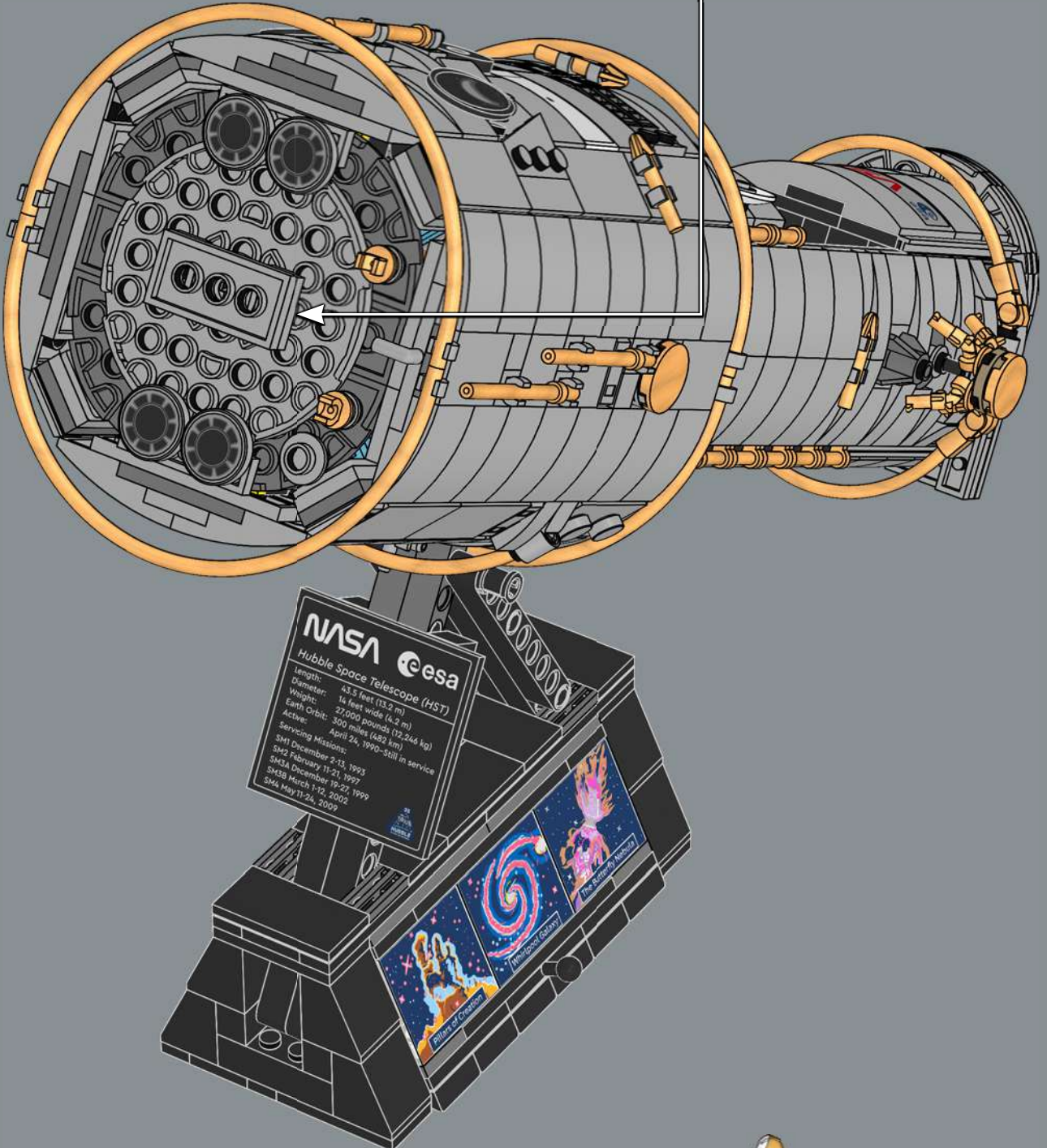
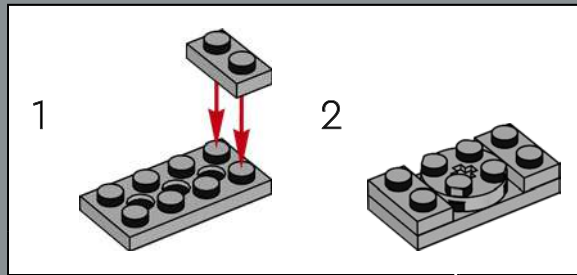
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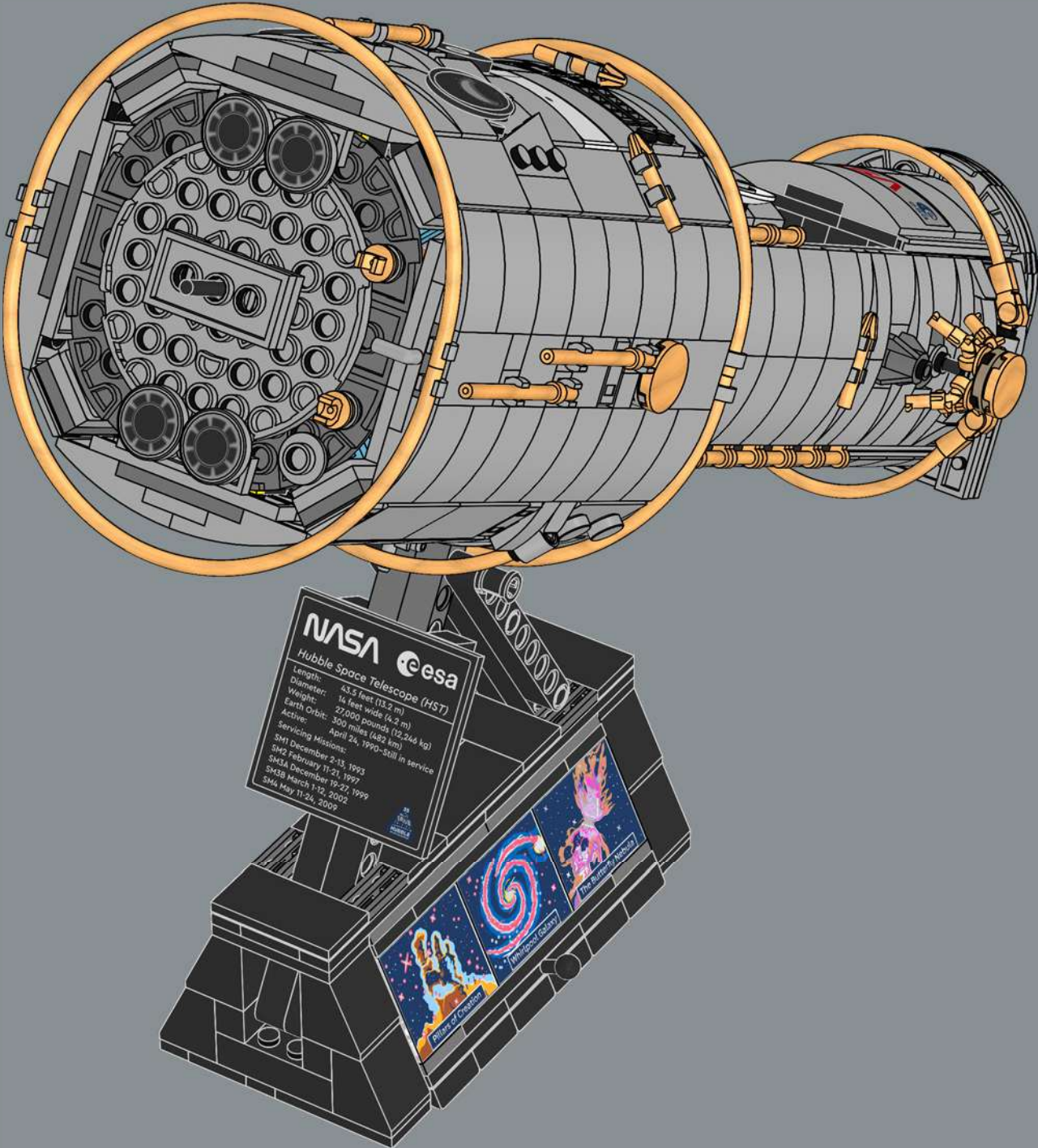


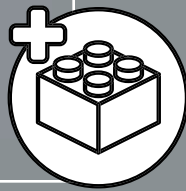
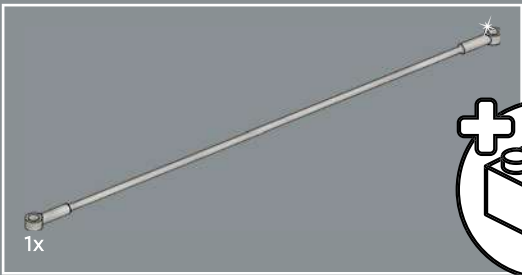
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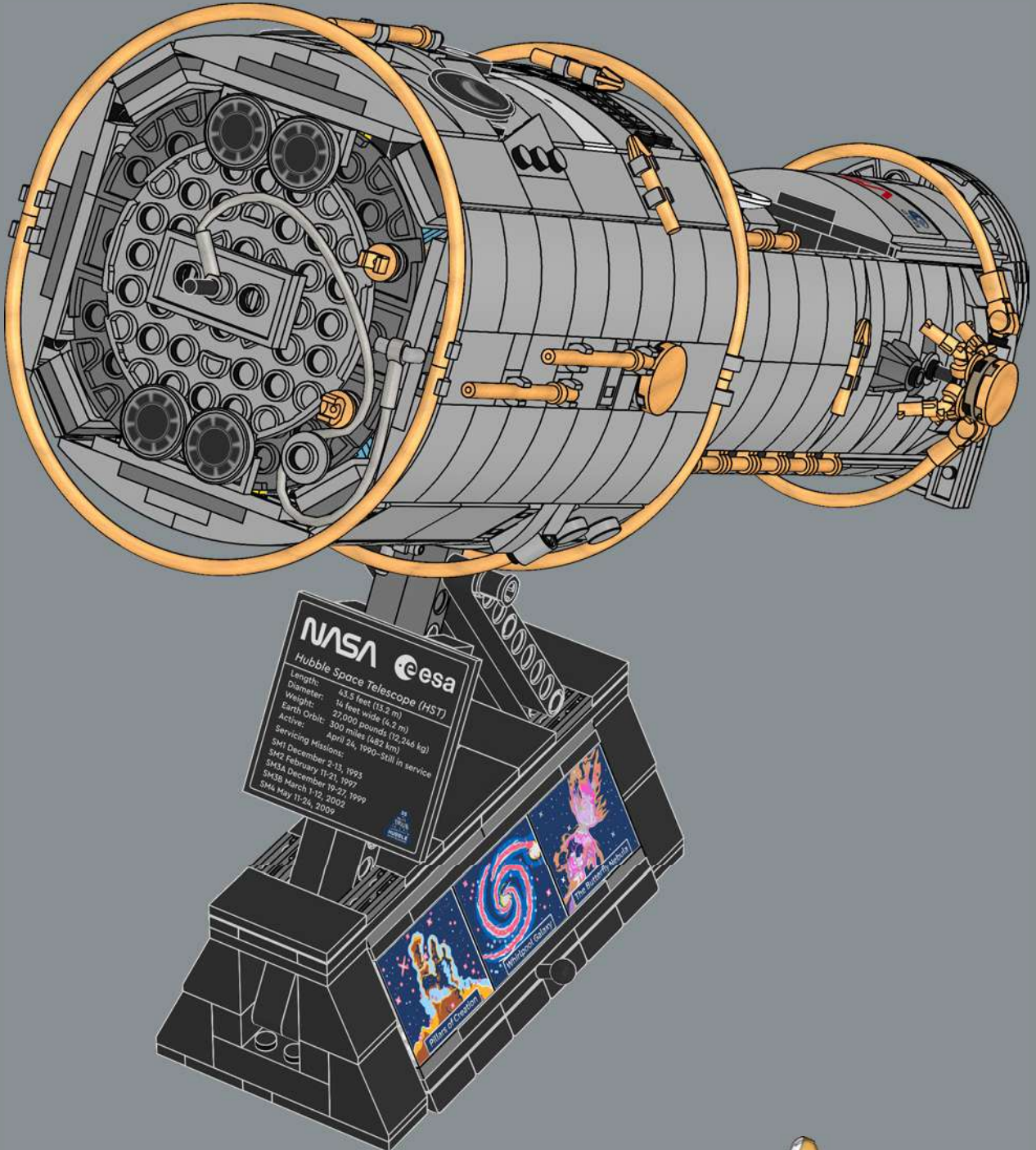


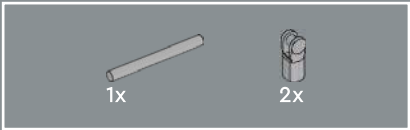
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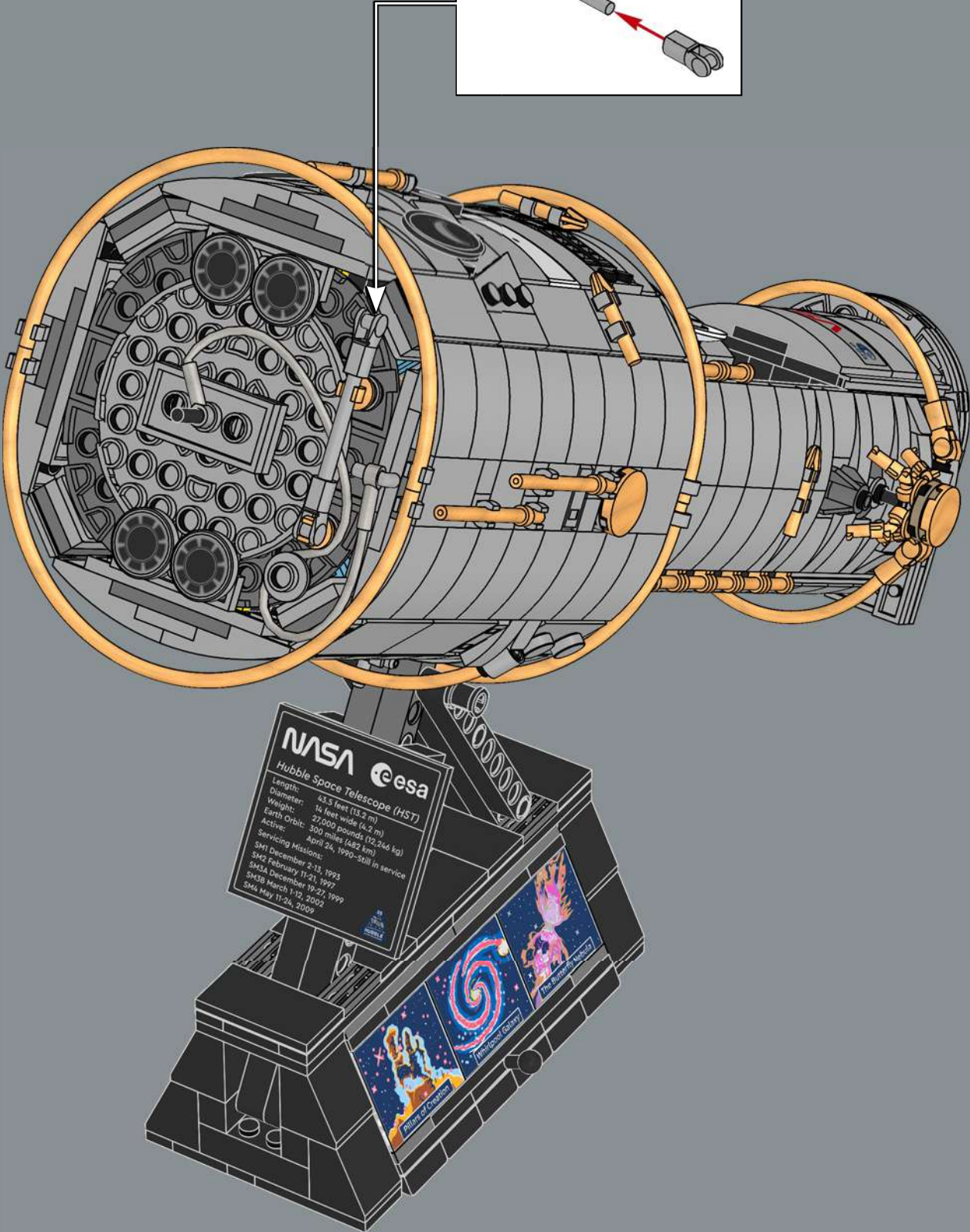
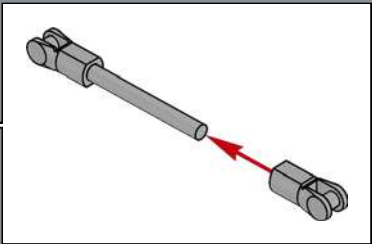


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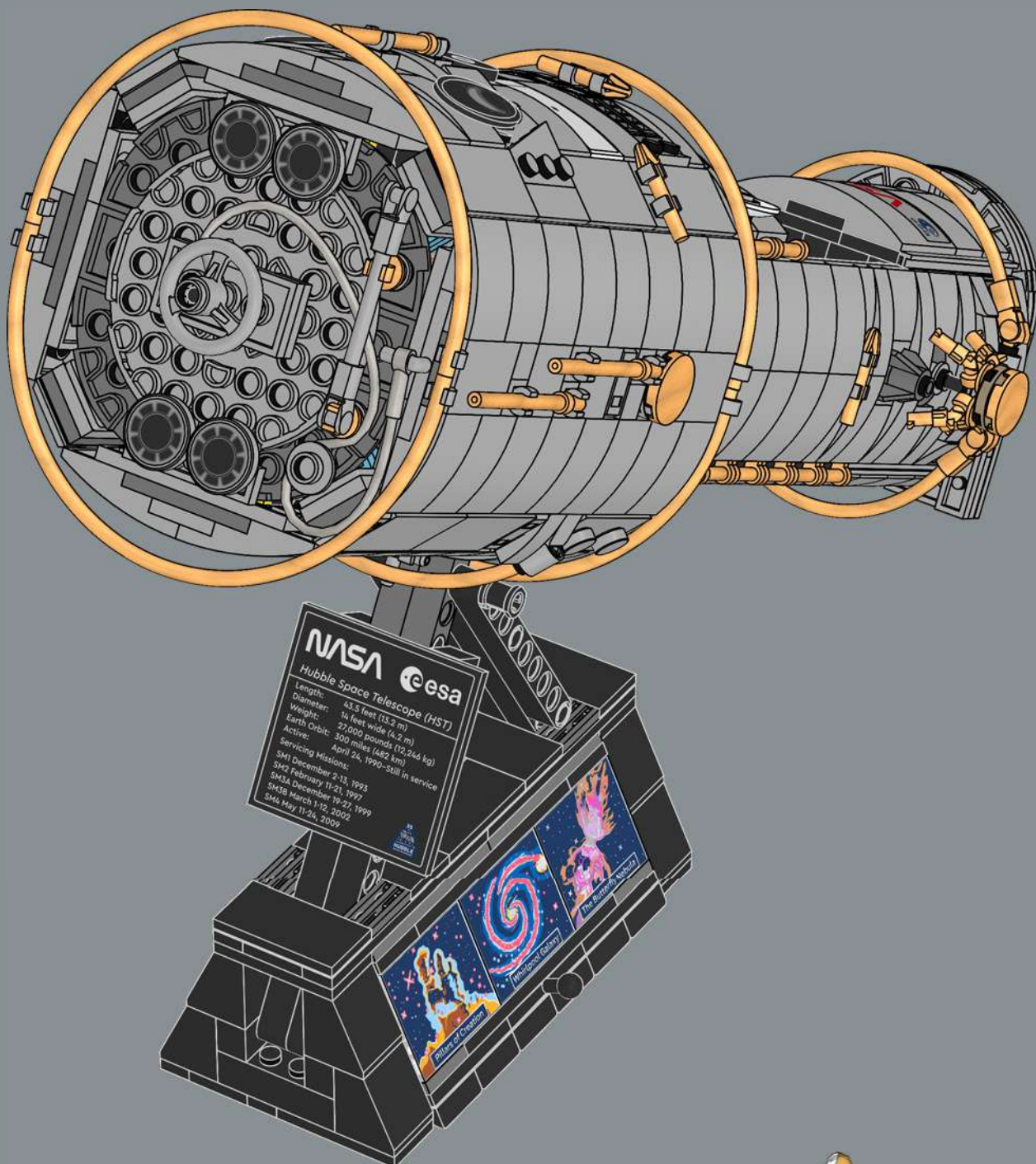
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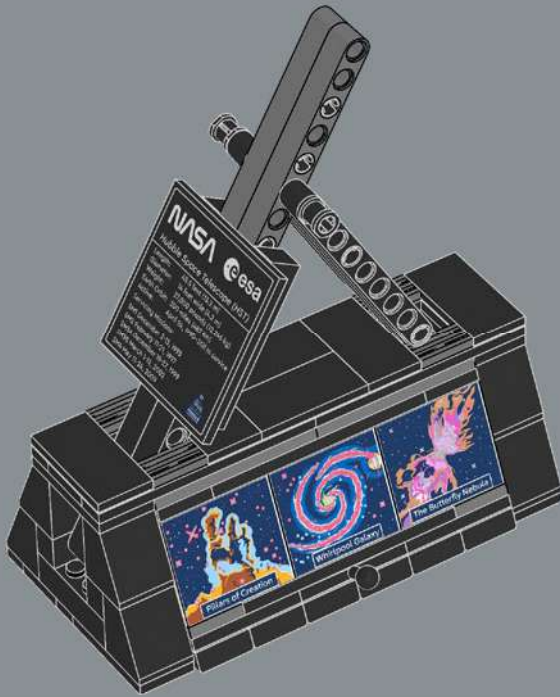
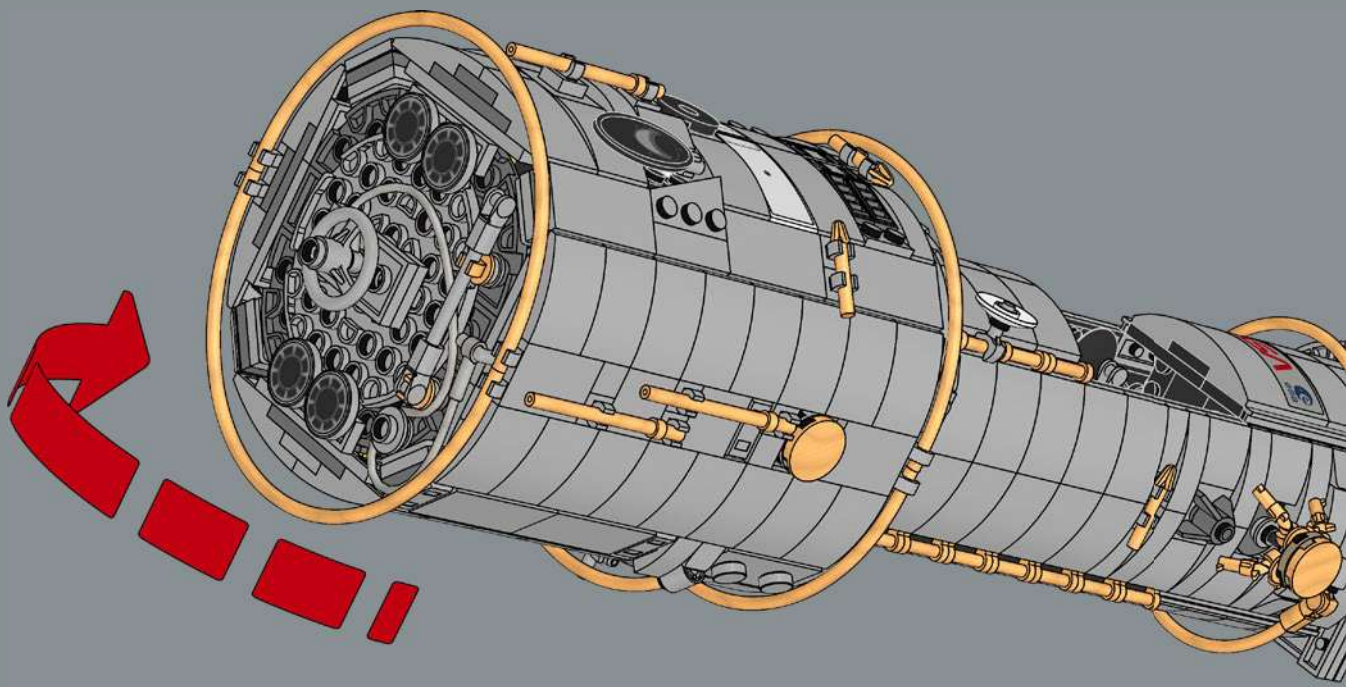


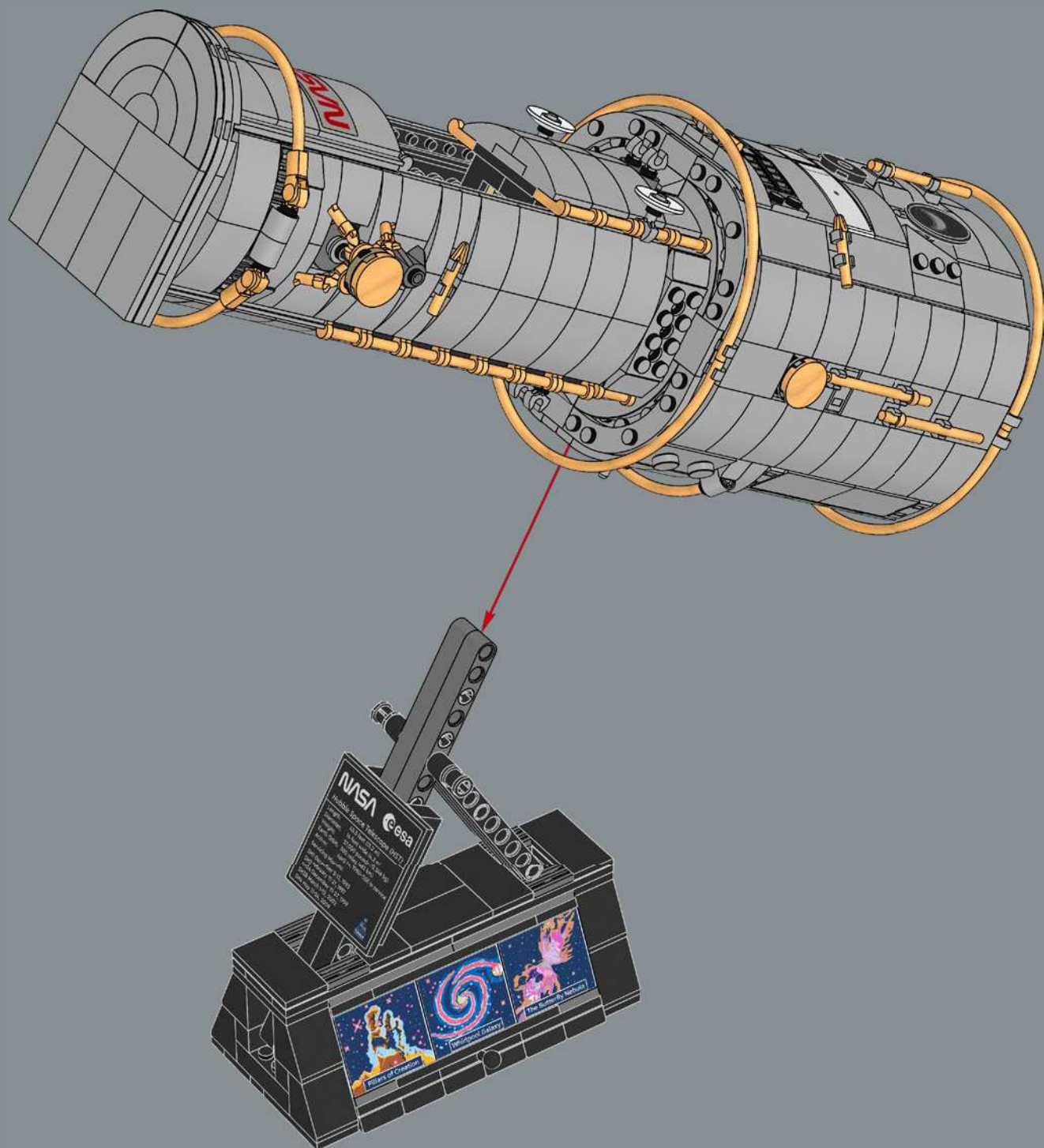


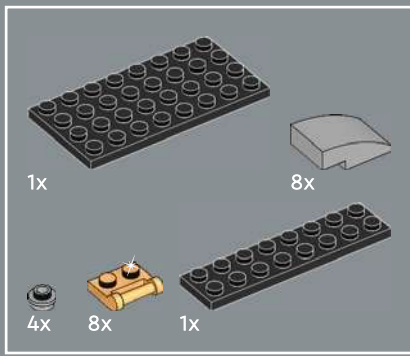
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314



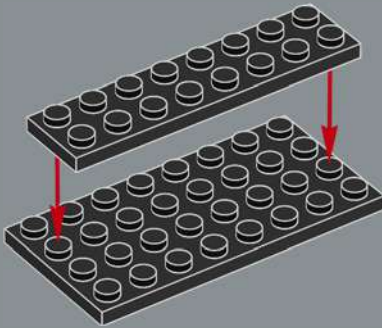




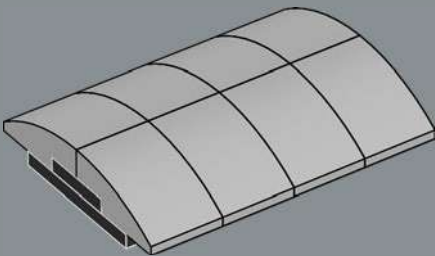


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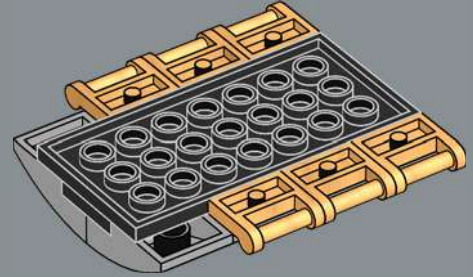
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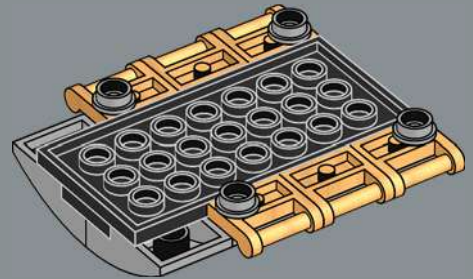
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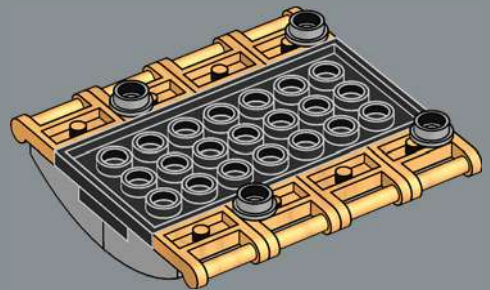
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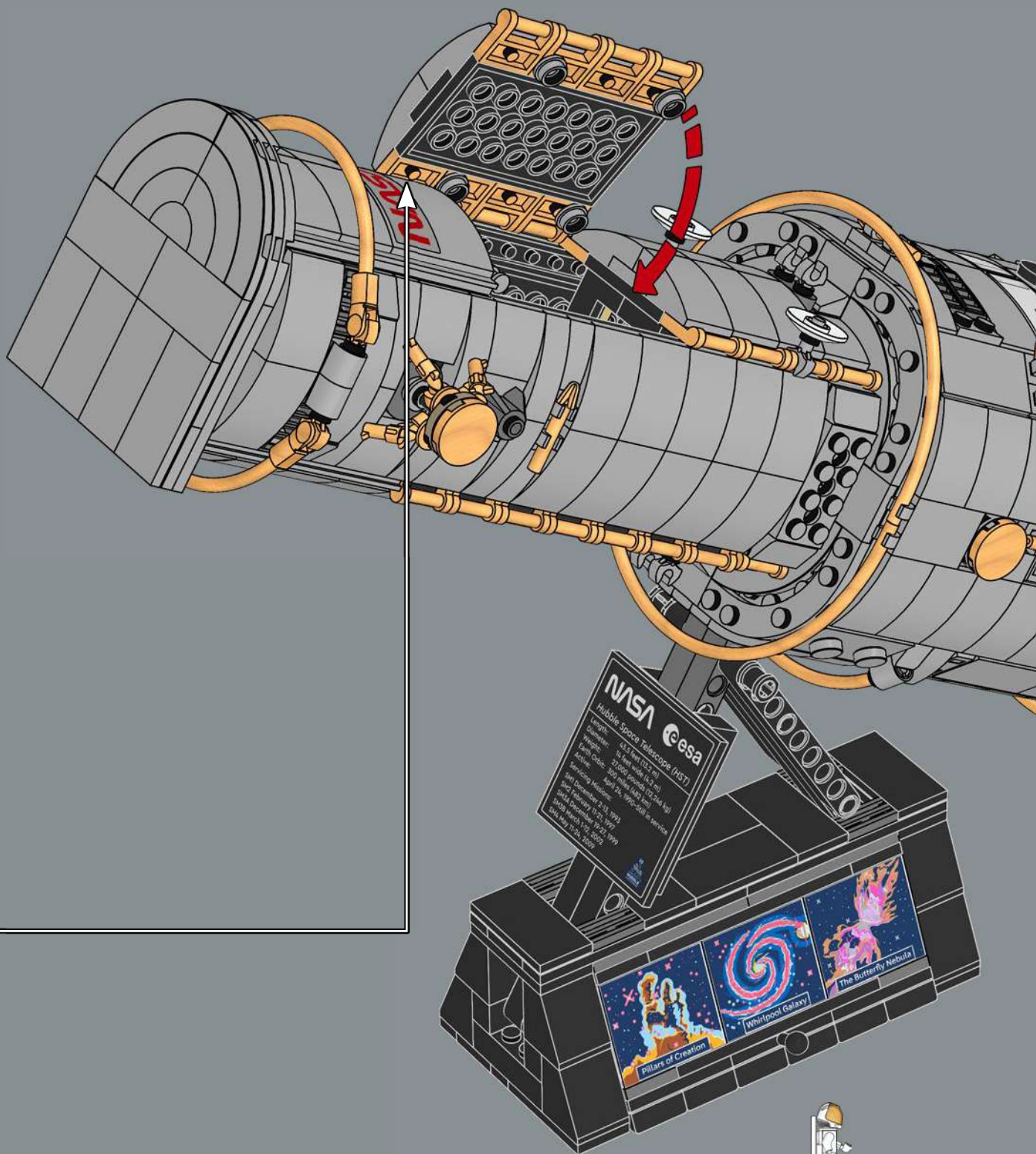


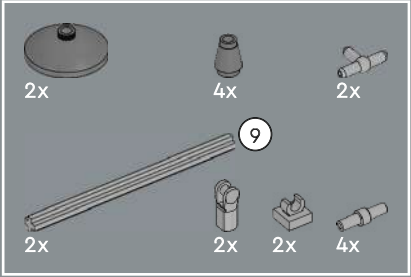
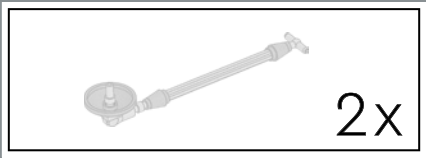
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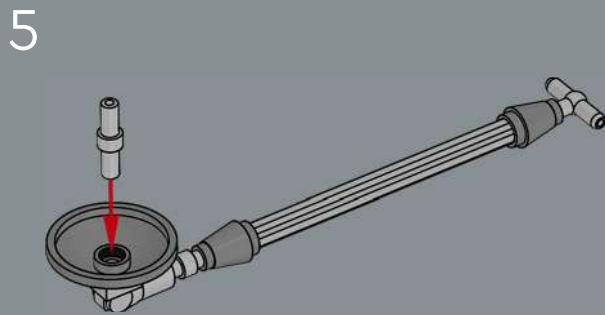
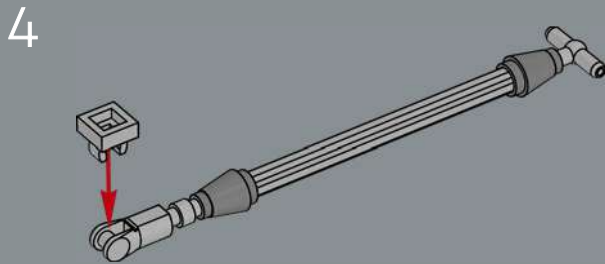
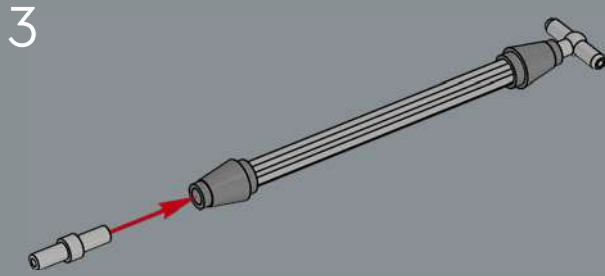
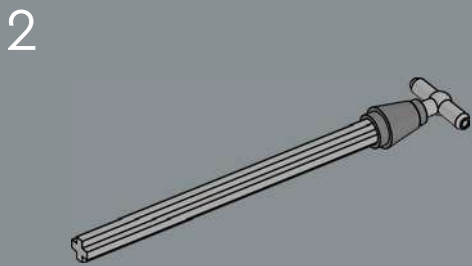
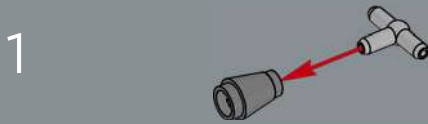
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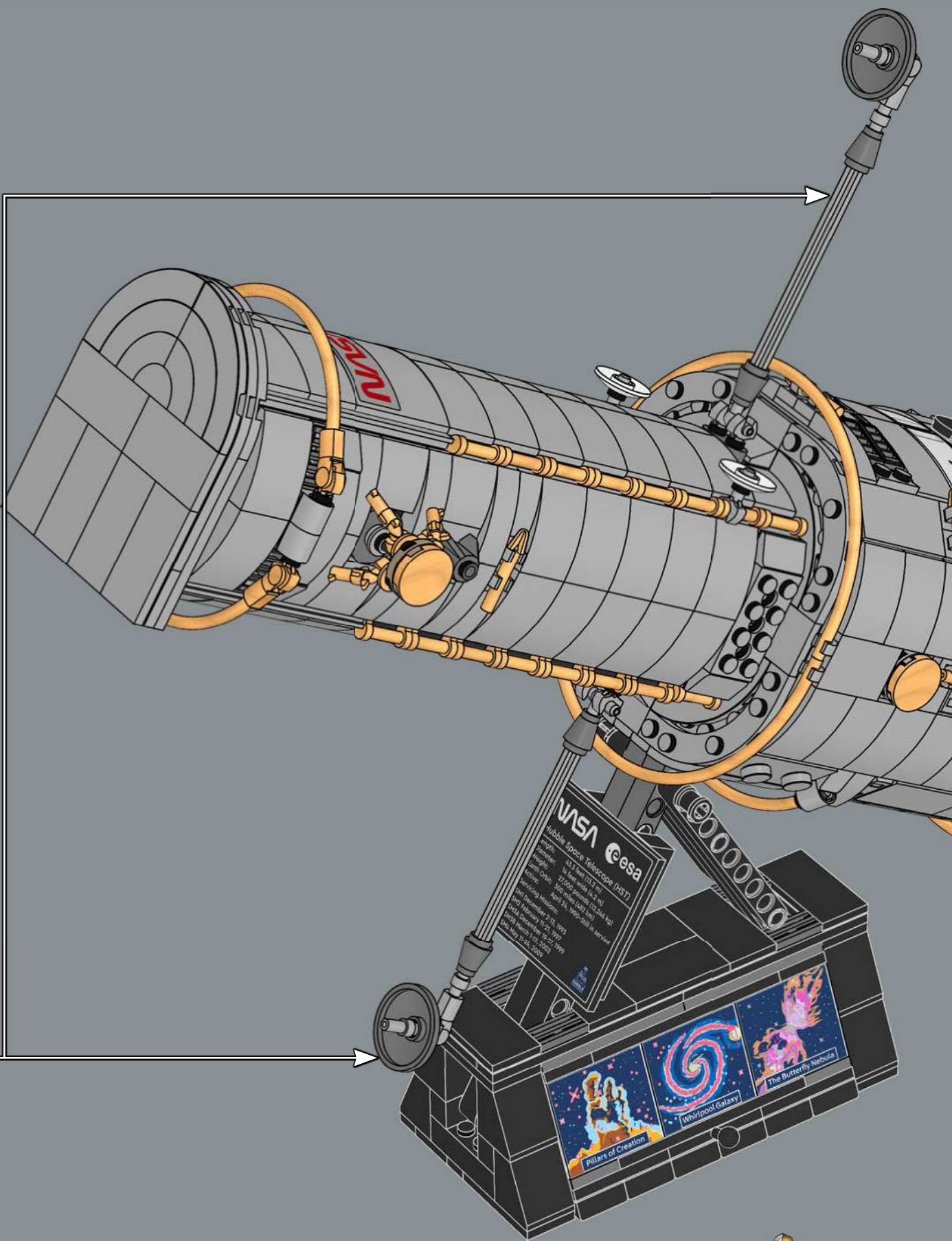


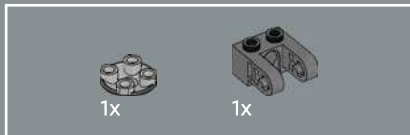
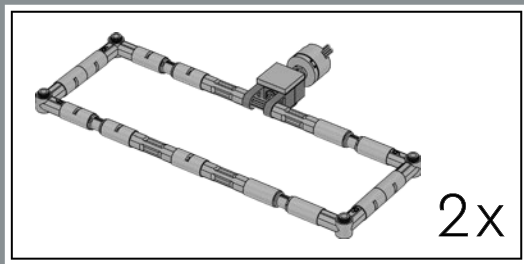
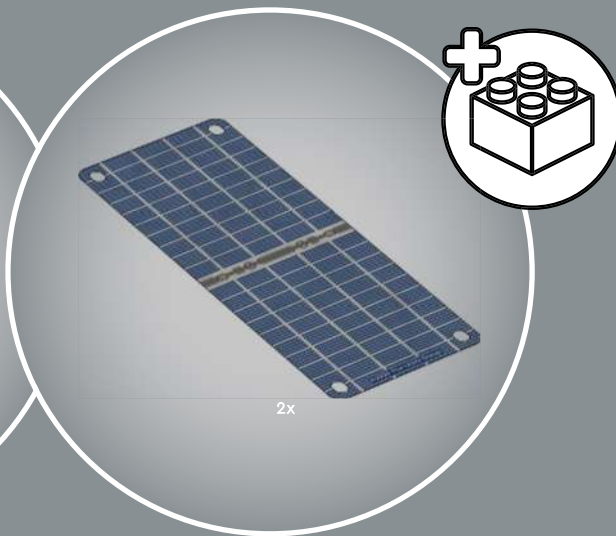
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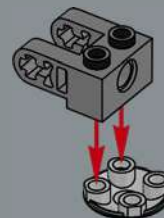
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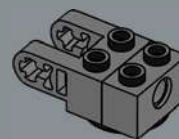


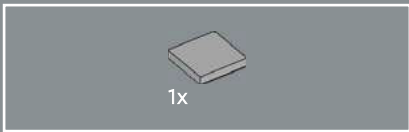


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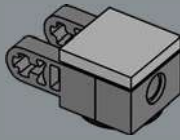


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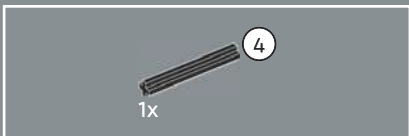
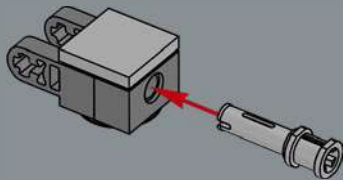




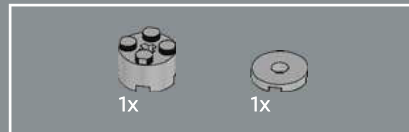
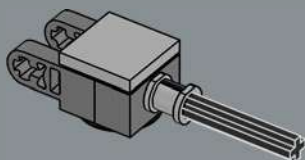
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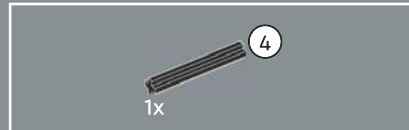
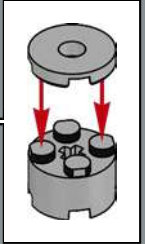
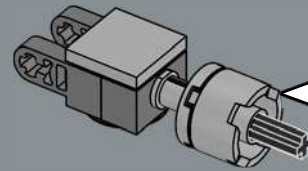
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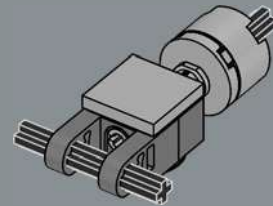
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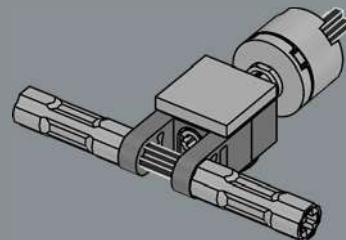
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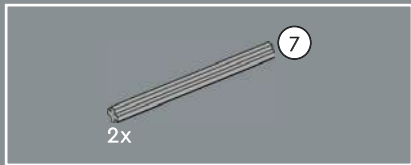


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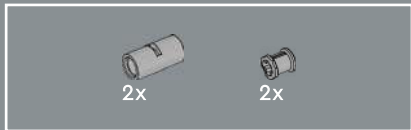
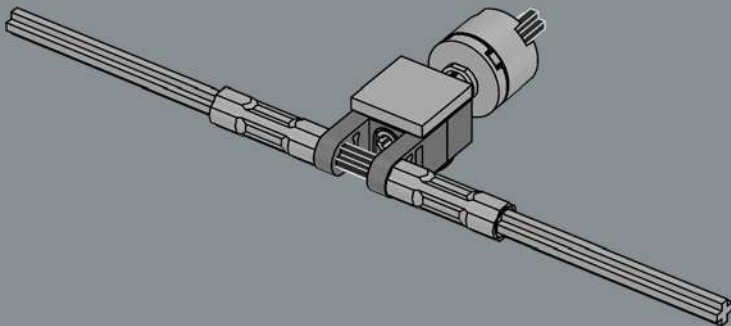


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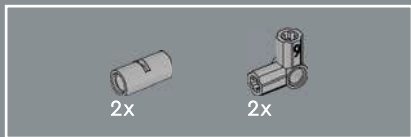
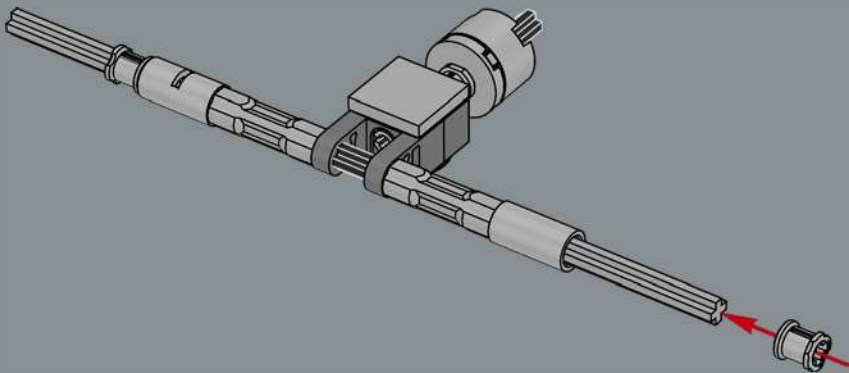




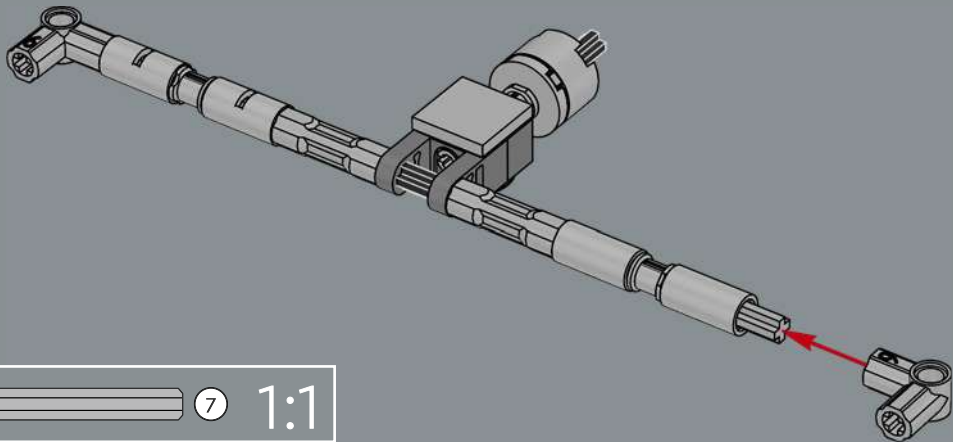
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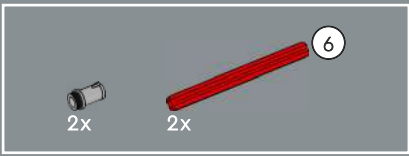


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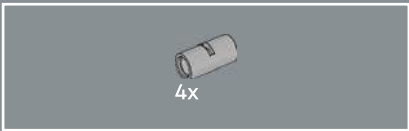
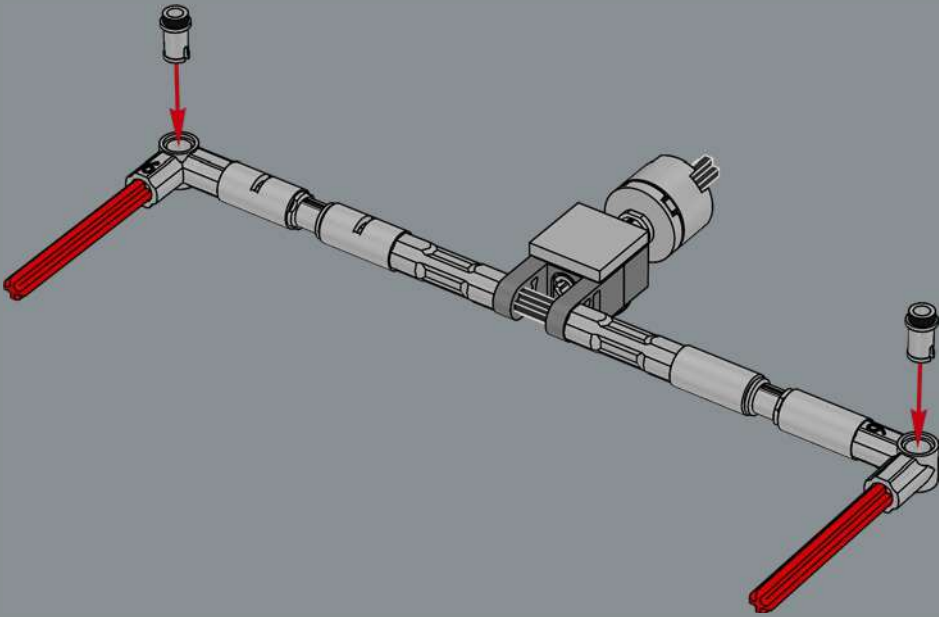


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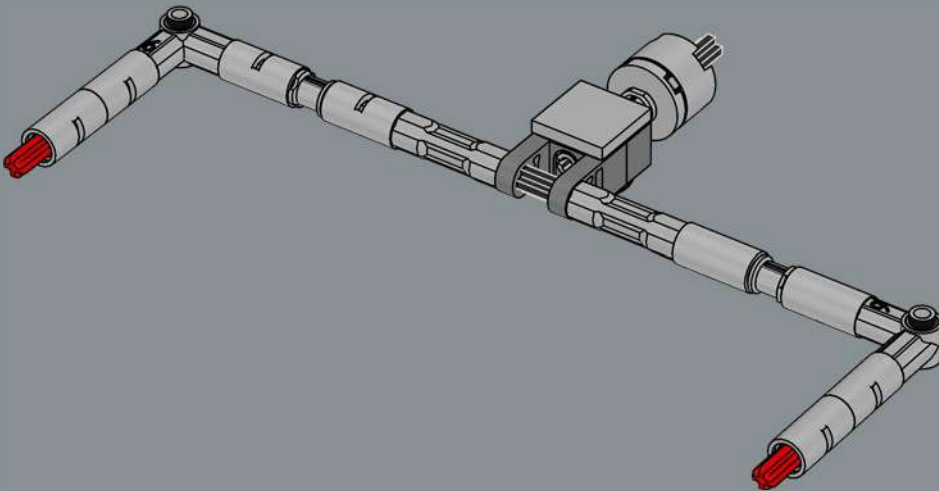


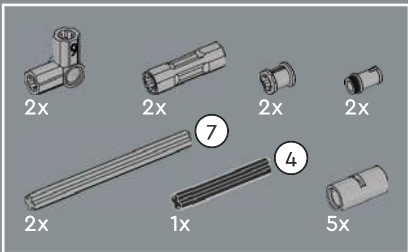
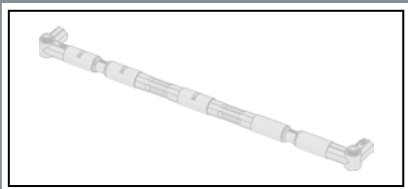


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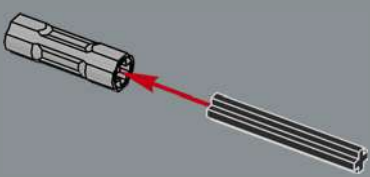
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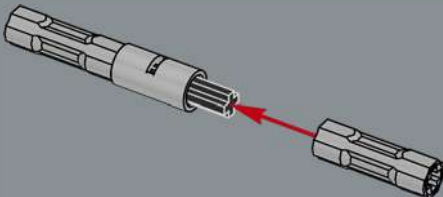


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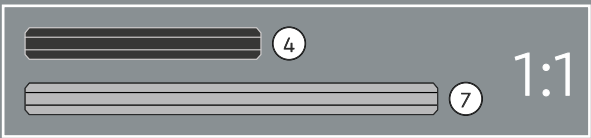
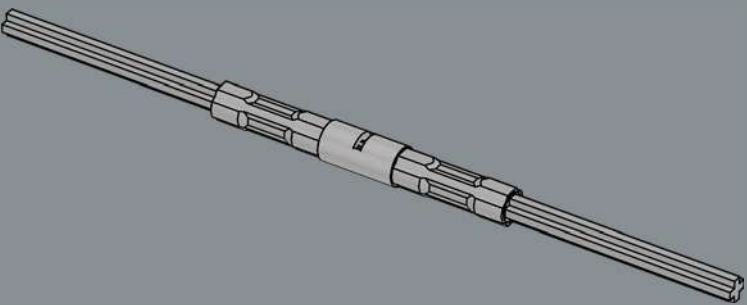
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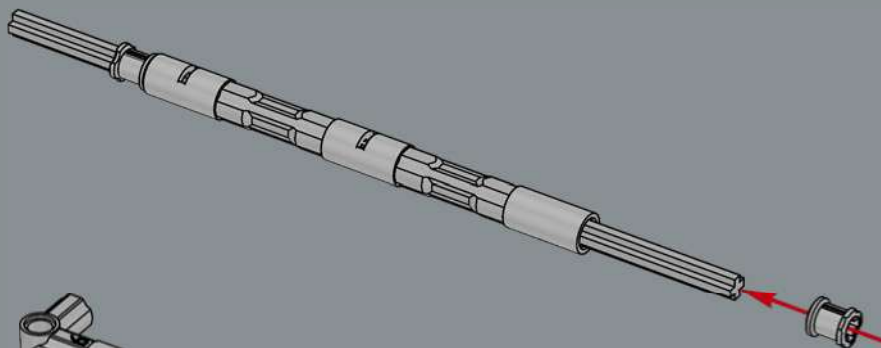
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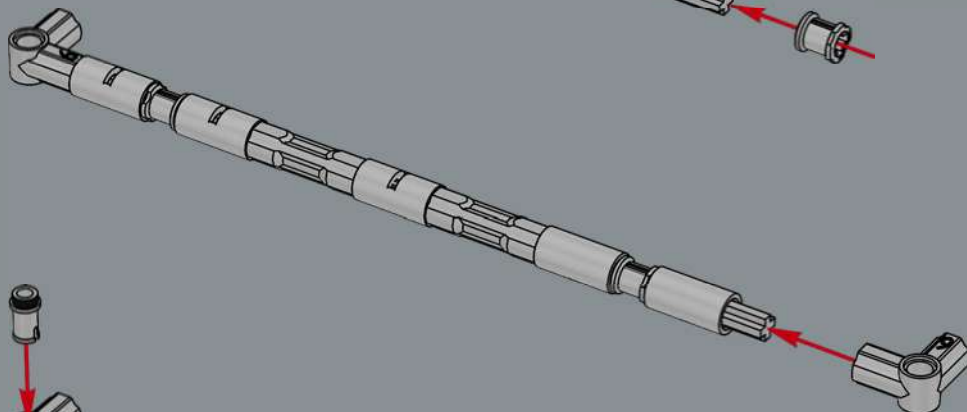
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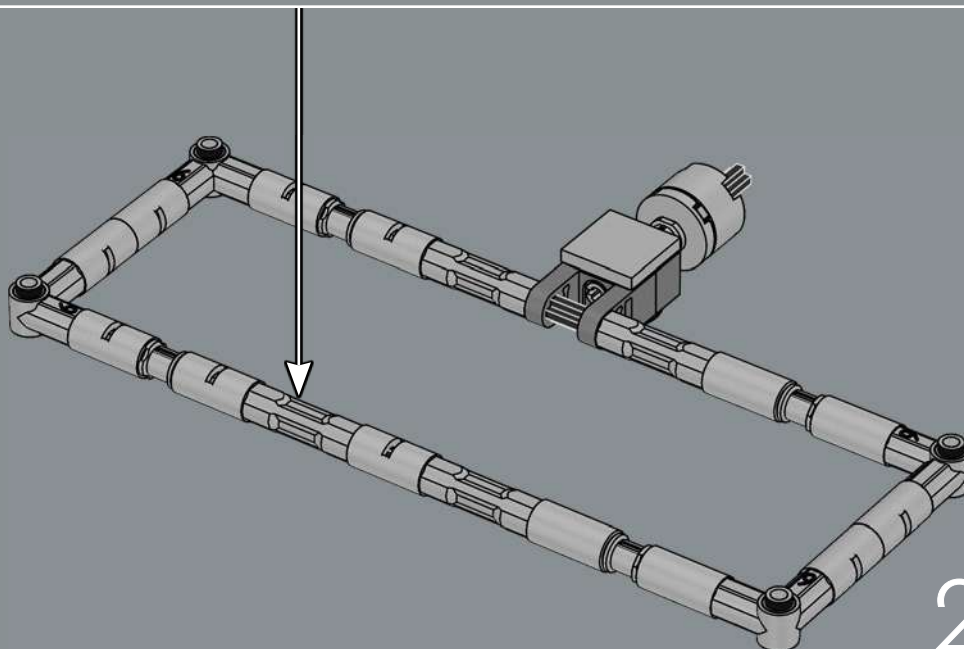
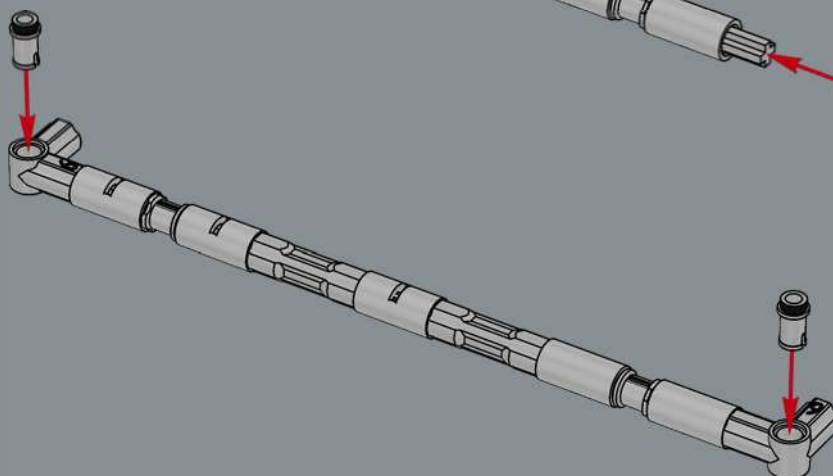
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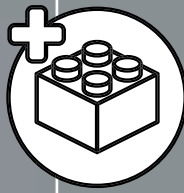
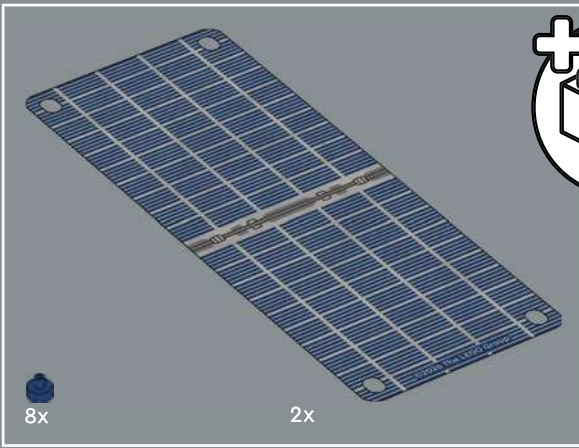


6



2x

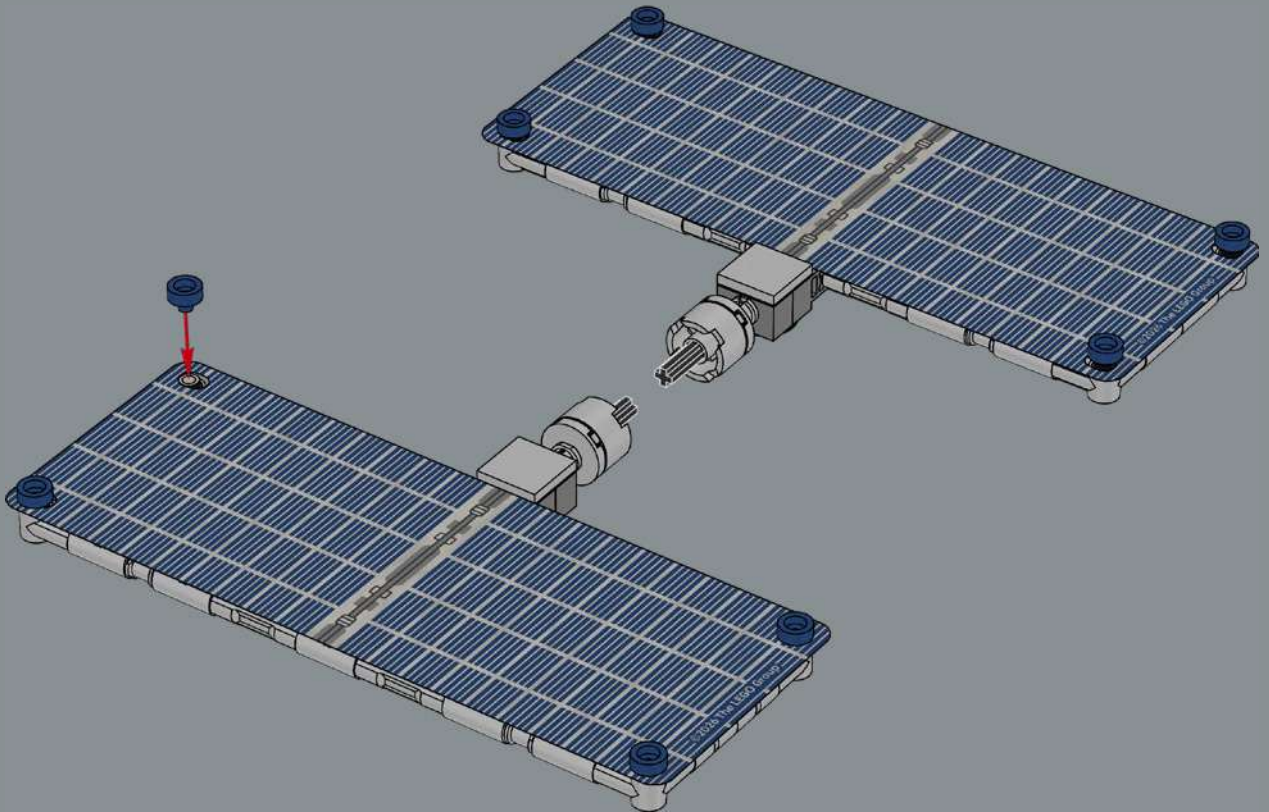


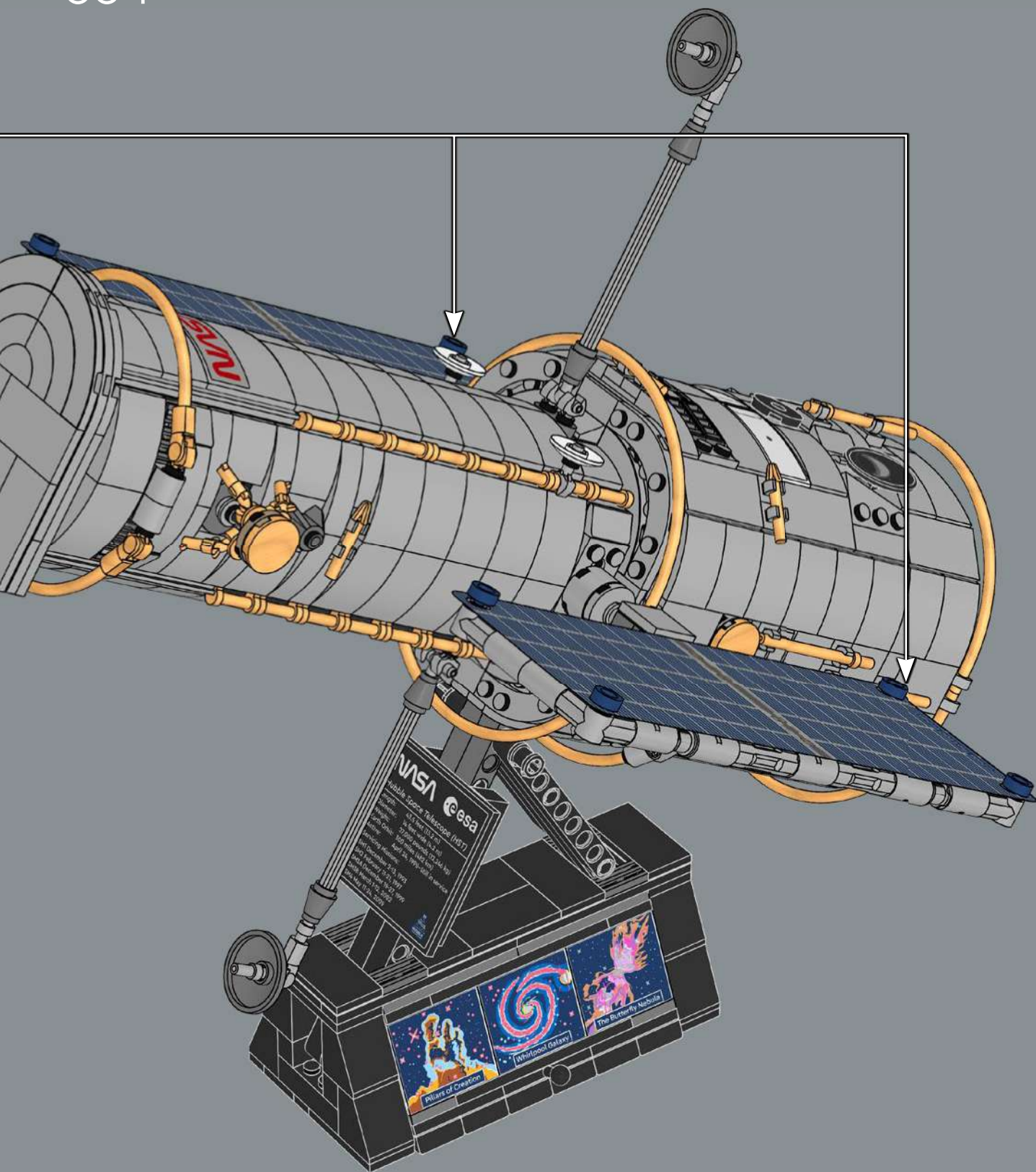


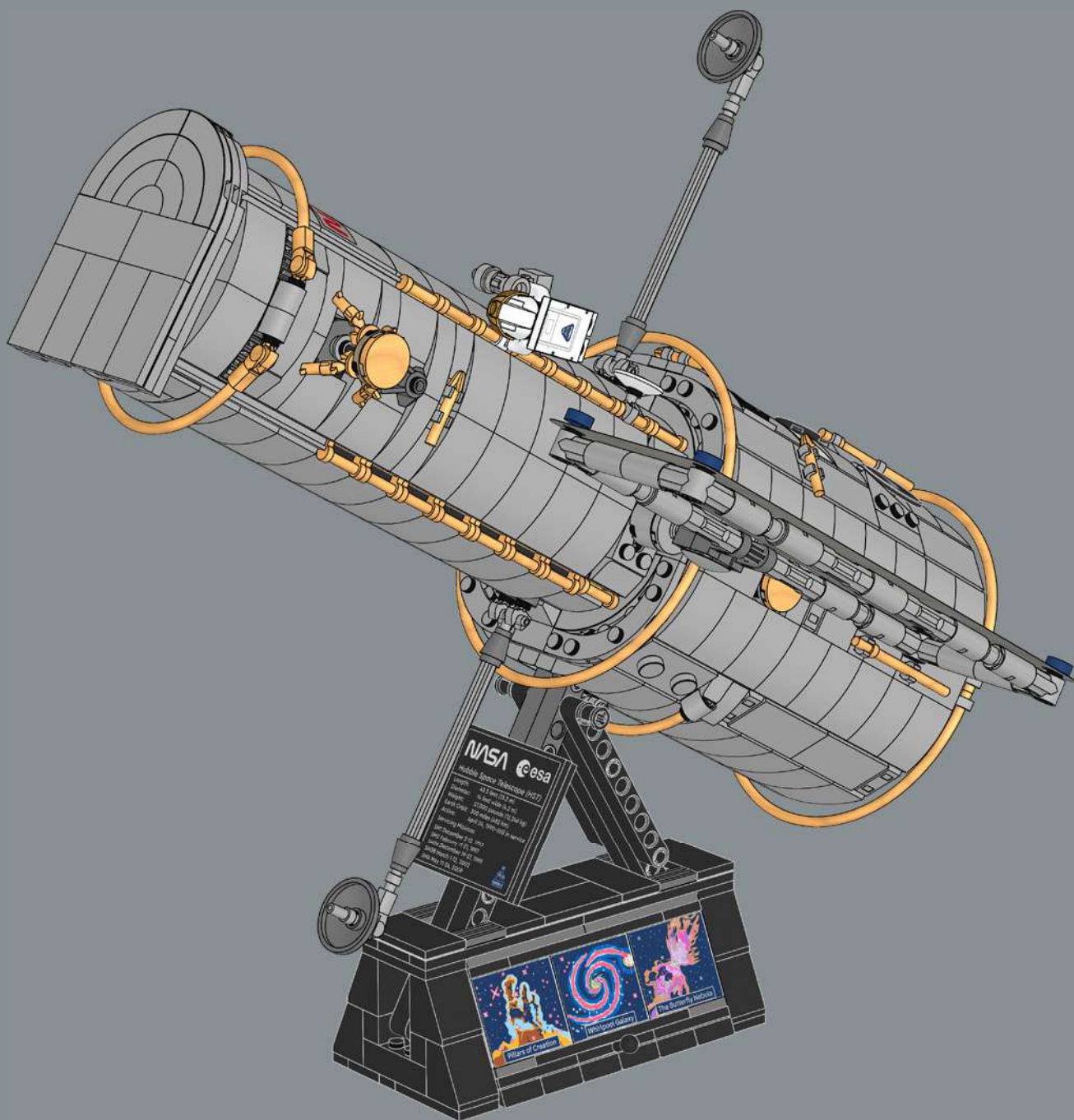
Hubble's solar array panels were changed twice. For this model, we chose the latest version installed during SM3B in 2002.



333







8x 6341465
16x 6360263
4x 6055541
4x 300501
4x 307001
4x 6224811
3x 6627203
1x 6594307
1x 6610802
2x 474001
1x 302301
2x 6313115
4x 6051511
4x 6058177
4x 6431329
1x 6618623
1x 6594611
1x 6594613
1x 6594614
2x 302101
2x 371001

3x 6023806
1x 370901
2x 6031947
15x 302001
3x 303401
4x 4218749
8x 6173057
2x 4113916
8x 4124067
1x 6525731
2x 6102138
8x 6092565
12x 6469446
4x 6130002
4x 6130004
12x 6248971
8x 306924
2x 371024
2x 302024
3x 303424

8x 6186675
4x 6332148
4x 300526
16x 407026
2x 6594309
6x 4548180
25x 6279875
14x 4278359
1x 403226
1x 6143850
10x 302326
4x 6178922
12x 300426
4x 306926
4x 6047276
4x 245426
20x 6308883
2x 6336989
3x 6093525

8x 4273703
2x 302226
2x 6053077
4x 6133722
2x 6321745
9x 370526
6x 371026
1x 4516020
9x 4162443
1x 6254519
2x 300126
4x 302026
6x 4560182
2x 389426
2x 6184876
4x 366626
2x 6058118

2x 6483102
1x 6187587
6x 346026
5x 303226
5x 303426
4x 4645732
1x 6155125
2x 447726
5x 303526
4x 4514845
2x 4522933
4x 302926
1x 428226

8x 6493351
1x 302228
12x 6514455
1x 6660655
1x 6660657
1x 6660656
1x 6507944
1x 6240515
2x 4187743
2x 6132767
8x 6429553
8x 6343976
1x 4640844
24x 6168647
4x 6284071
2x 6258831
6x 6439041
8x 6275844
14x 4211483
1x 6531935

1x 6401023
7x 4211399
27x 6308012
4x 4211415
4x 4521921
12x 6336539
20x 6436419
1x 6510070
3x 4211508
1x 4211794
1x 4211791
10x 4568637
8x 4211475
3x 4278273
1x 6028324
4x 4211526
3x 6179186
4x 6508097
8x 6268924
26x 6173127
3x 4211398
3x 6383177

4x 6055541
4x 300501
4x 307001
4x 6224811
3x 6627203
1x 6594307
1x 6610802
2x 474001
1x 302301
2x 6313115
4x 6051511
4x 6058177
4x 6431329
1x 6618623
1x 6594611
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1x 6594614
2x 302101
2x 371001

3x 6023806
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15x 302001
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2x 4113916
8x 4124067
1x 6525731
2x 6102138
8x 6092565
12x 6469446
4x 6130002
4x 6130004
12x 6248971
8x 306924
2x 371024
2x 302024
3x 303424



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