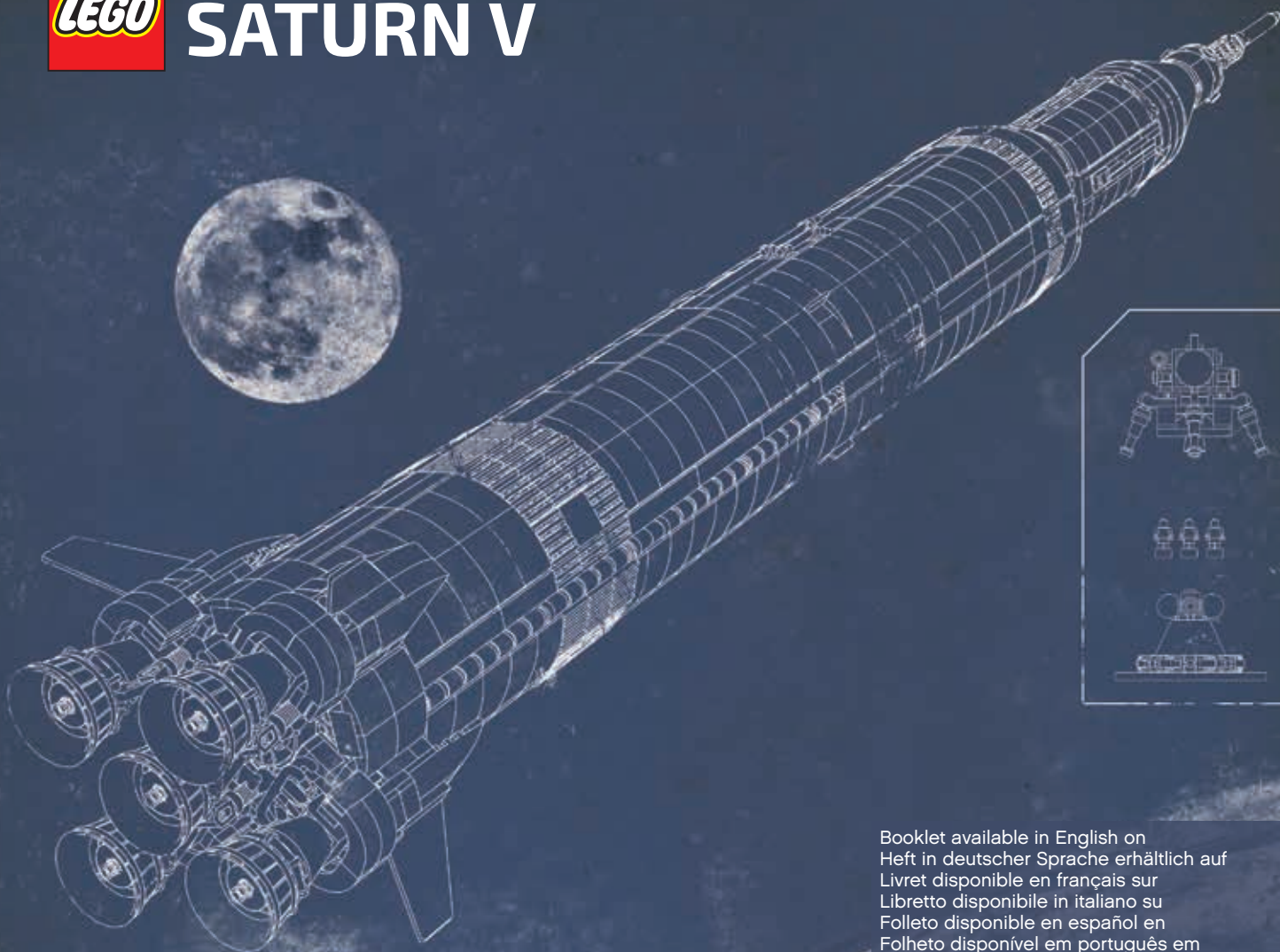




NASA APOLLO
SATURN V



Booklet available in English on
Heft in deutscher Sprache erhältlich auf
Livret disponible en français sur
Libretto disponibile in italiano su
Folleto disponible en español en
Folheto disponível em português em
A füzet magyarul ezen a honlapon olvasható
如需中文版手册, 请访问 LEGO.com/ideas

SATURN V BUILDING INSTRUCTIONS

- 21309 -



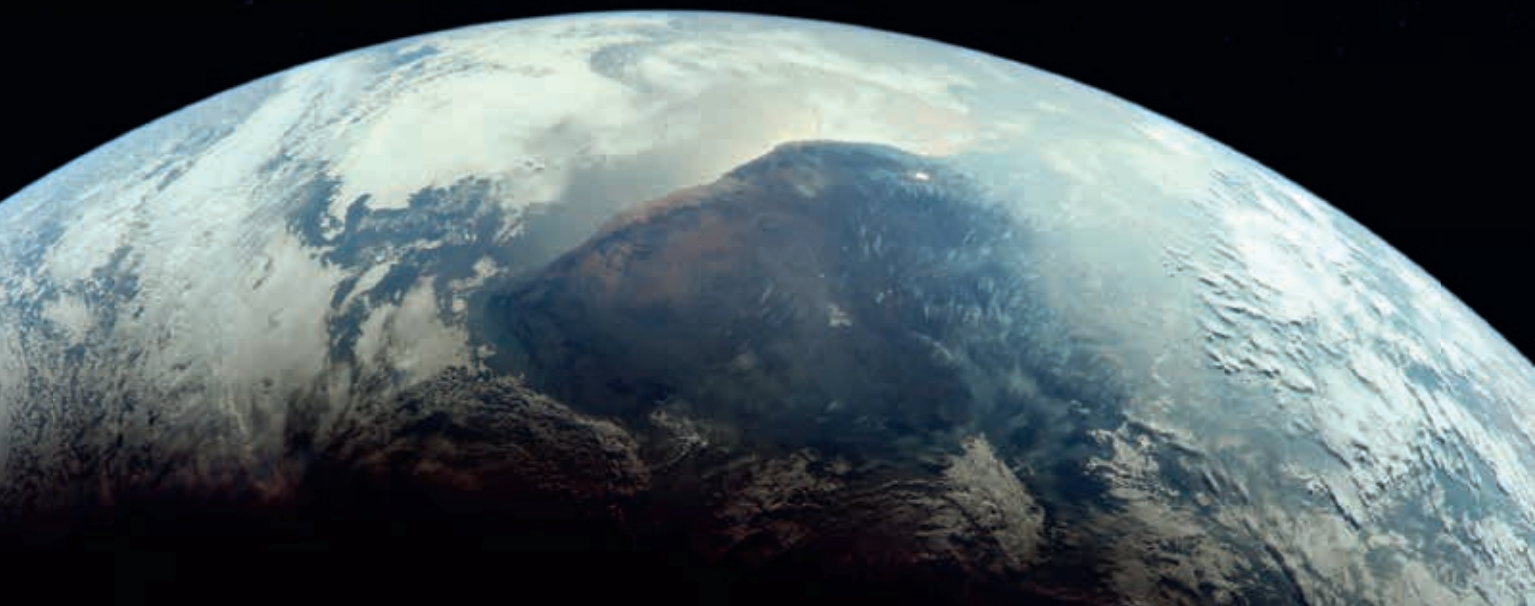
The Apollo Program

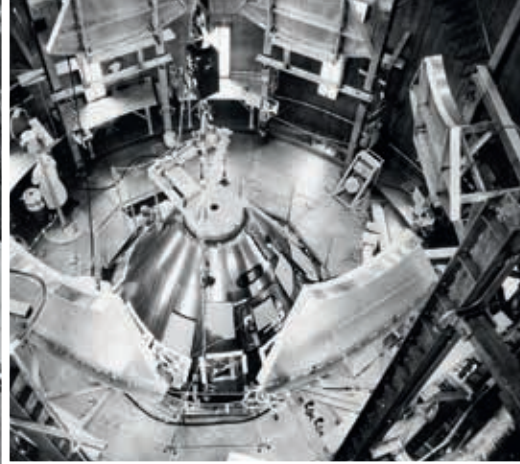
On May 25, 1961, President John F. Kennedy challenged his country to safely send and return an American to the Moon before the end of the decade. NASA met that challenge with the Apollo program. It would be the first time human beings left Earth orbit and visited another world. The Apollo program played a crucial role in space exploration and made it possible to explore more distant worlds further in the future.

The Apollo program consisted of 11 spaceflights. The first two missions, Apollo 7 and 9, were Earth-orbiting missions used to test the Command and Lunar Modules. The next two, Apollo 8 and 10, tested various components while orbiting the Moon, also taking photographs of the lunar surface. While Apollo 13 did not land on the moon due to a malfunction, a total of six other missions did and returned with a wealth of scientific data and almost 881.8 lbs (400 kilos) of lunar samples.

The first manned mission to the moon was Apollo 8. It circled around the moon on Christmas Eve in 1968. Just over six months later on July 20, 1969, the world witnessed one of the most astounding technological achievements of the 20th century when a NASA astronaut on Apollo 11 became the first human to set foot on the Moon.

The Apollo 11 mission lasted 195 hours, 18 minutes and 35 seconds - about 36 minutes longer than planned. After lunar orbit insertion, the Command Module (CM) and Lunar Module (LM) separated. While one crewmember remained in the CM, which orbited the Moon, the other two astronauts made the historic journey to the lunar surface in the LM. After exploring the surface and setting up experiments for 21 hours and 36 minutes, the astronauts returned safely to the CM and began the journey back to Earth.





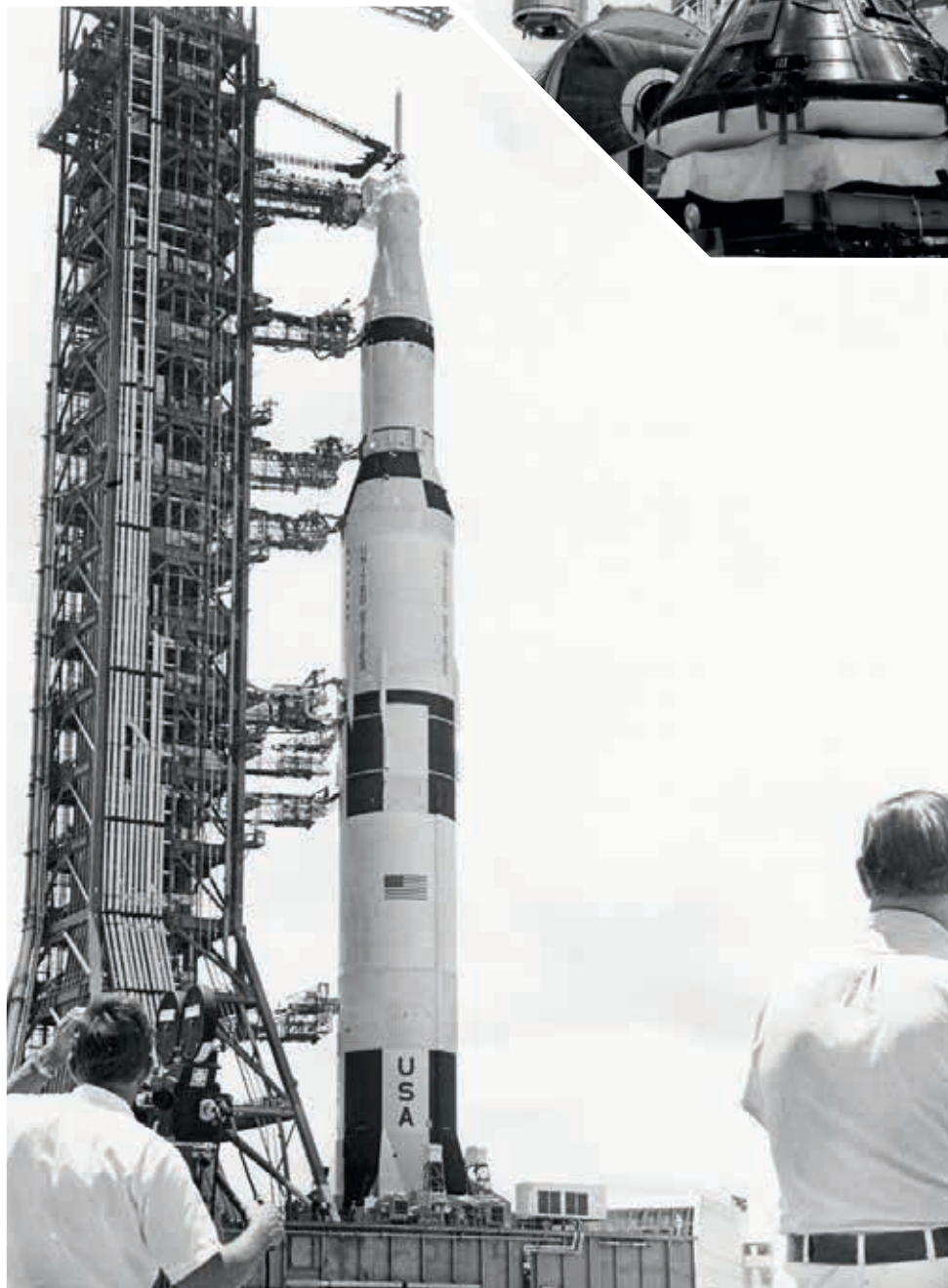
The Saturn V moves at one mile per hour
down the crawlerway toward pad 39A >>

Workers prepare the S-IC first stage
in the transfer aisle of the Vehicle
Assembly Building >

Photographers film the Apollo 11 rollout >

Pre-flight training <

Kennedy Space Center technicians >>
inspect the LRV.



Saturn V

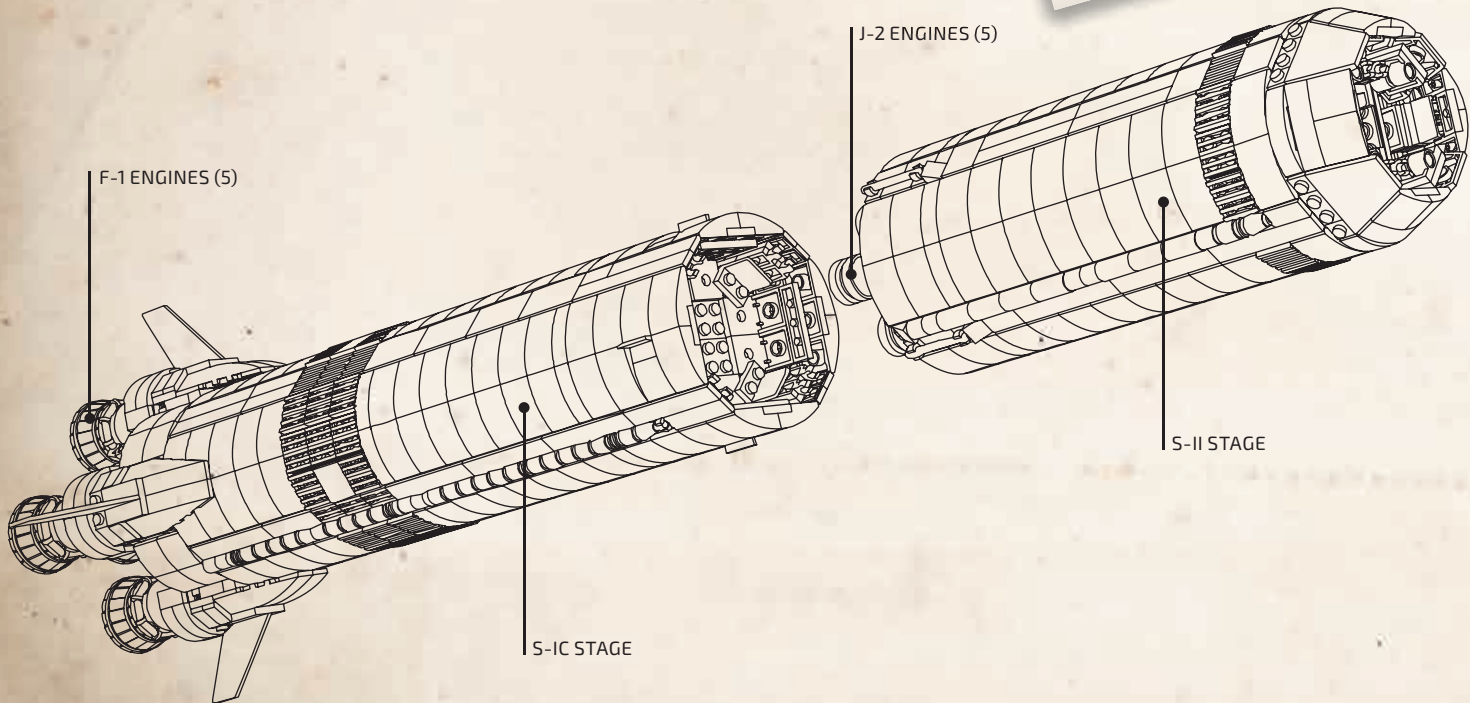
Saturn V was the most powerful rocket that had ever flown successfully and was used in the Apollo program in the 1960s and 1970s. The rocket was 363 ft. (111 m) tall and weighed 6.2 million lbs (2.8 million kilos) when fully fueled for liftoff. The Saturn V used for the later Apollo missions had three stages. Each stage would burn its engines until it was out of fuel and would then separate from the rocket. The engines on the next stage would fire, and the rocket would continue into space. The first stage had the most powerful engines, since it had the challenging task of lifting the fully fueled rocket off the ground. The first stage lifted the rocket to an altitude of about 42 miles (68 km). The second stage carried it from there almost into orbit. The third stage placed the Apollo spacecraft into Earth orbit and pushed it toward the moon.



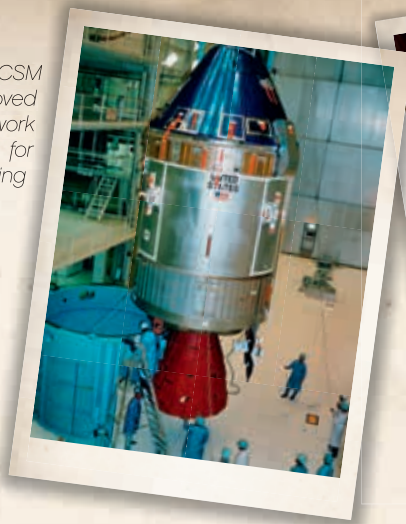
The S-II second stage is moved into position for mating with the S-IC first stage



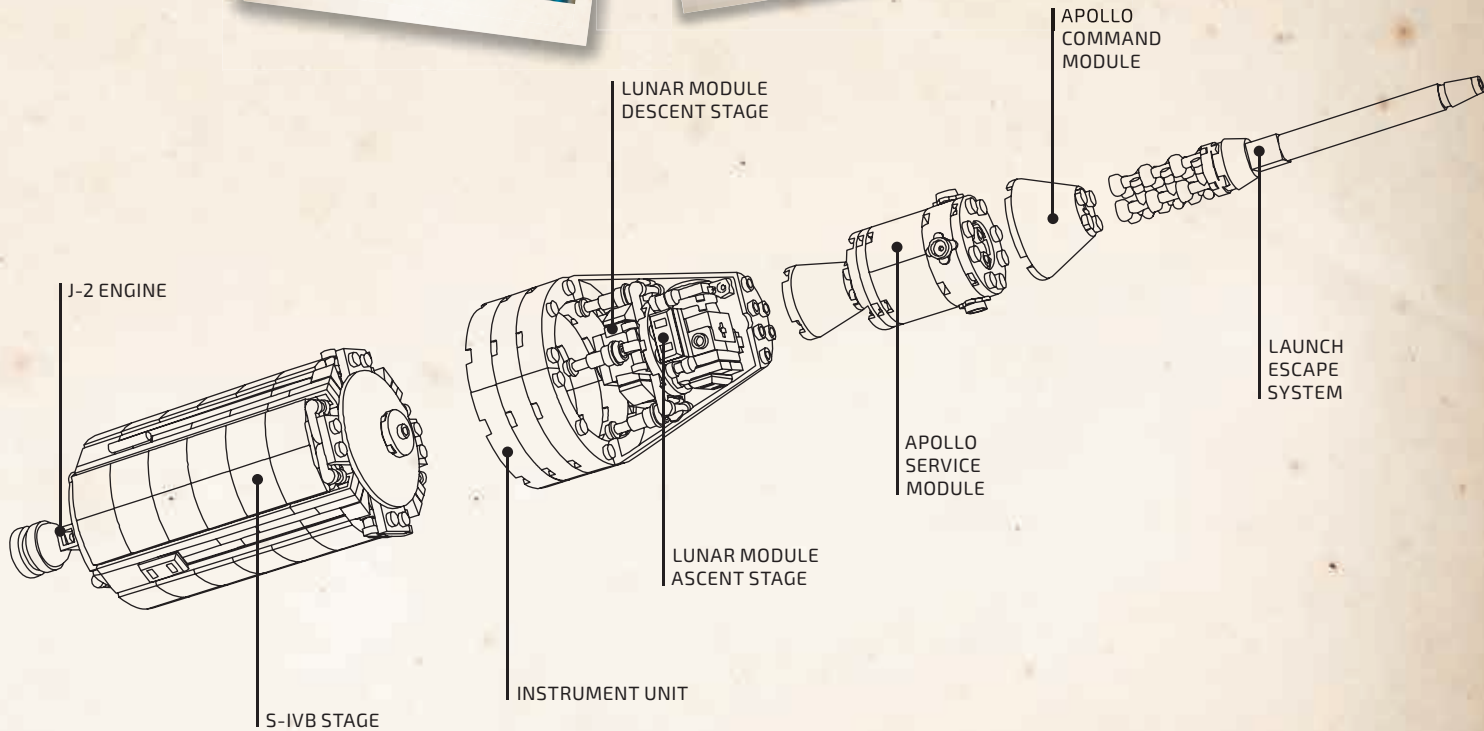
Mating of the Apollo 11 spacecraft to the Saturn V launch vehicle



The Apollo 11 CSM being moved from work stand for mating



Lunar Module 5 ascent stage in Final Assembly area on overhead hoist



Transposition, docking, and extraction

Shortly after the trans-lunar injection maneuver that placed the Apollo spacecraft on its trajectory towards the Moon, the transposition and docking maneuver would be performed. This involved an astronaut separating the Apollo Command/Service Module (CSM) spacecraft from the adapter which fastened it to its launch vehicle upper stage, turning it around, and docking its nose to the Apollo Lunar Module (LM), then pulling the combined spacecraft away from the upper stage.



The Command/Service Module (CSM) separates from the adapter.

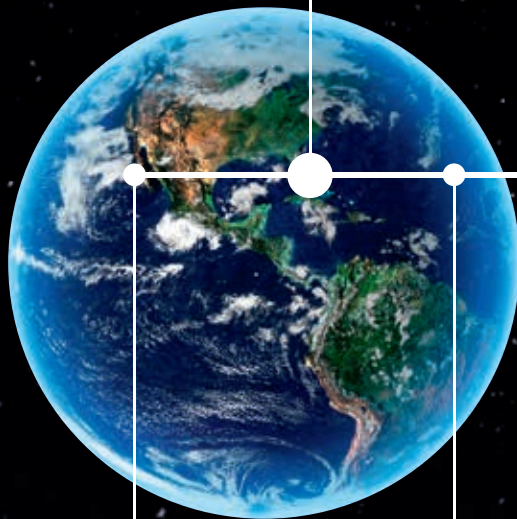
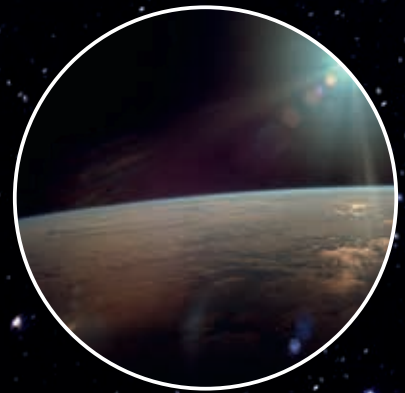


The CSM then turns around in preparation for docking with the Lunar Module (LM)



After docking, the CSM pulls the LM away from the launch vehicle's upper stage

Journey to the Moon



LIFTOFF

LAUNCH ESCAPE
TOWER JETTISON.

S-IVB 2ND ENGINE
IGNITION

CSM DOCKING WITH
LM/S-IVB.

S-IVB ENGINE CUTOFF.

CSM SEPARATION
FROM LM ADAPTER.

TRANSLUNAR
INJECTION "GO"
DECISION.

CSM 180°
TURNAROUND.

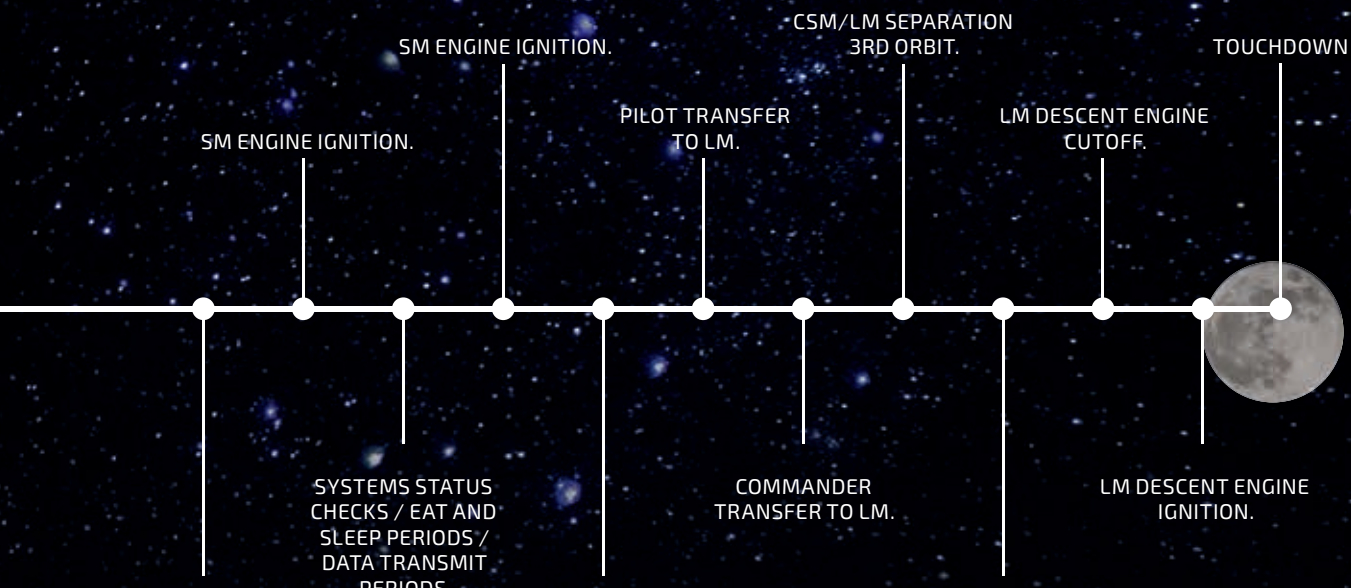
S-II/S-IVB
SEPARATION.
S-IV ENGINE IGNITION.

S-IVB ENGINE CUTOFF.

APOLLO SATURN V
ROLLS OUT OF THE
MASSIVE VEHICLE
ASSEMBLY BUILDING

THE FIRST STAGE
FALLS AWAY AS THE
S-II STAGE IGNITES

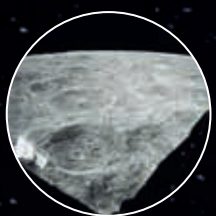




CSM SEPARATION FROM S-IVB.

BEGIN NAVIGATION SIGHTINGS.

LM DESCENT ENGINE IGNITION.



Fan designers

With a shared passion for both space exploration and LEGO® building, Valérie Roche (aka Whatsuptoday) and Felix Stiessen (aka Saabfan) worked closely together to create their impressive Apollo 11 Mission model for LEGO Ideas.

"The most challenging part was the Lunar Landing module. I (Felix) tried building it as small as possible (I wanted it to fit in the half-cone parts as seen in the model) while still looking good and accurate. After that, we began building the rocket around it. We also tried to make the rocket as sound as possible, so Valérie included pillars and beams inside for structural integrity."

"It actually took quite a long time to finish the whole model. There were often times when one

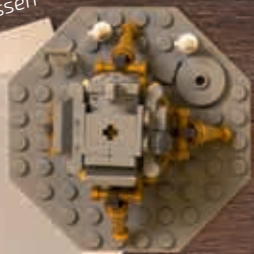
of us just abandoned the project for a few weeks and came back to it later; however, thanks to the fact that it is a collaborative project, it was always the case that one of us continued making progress on the project and re-motivated the other. All in all, we would say it took us about a year to complete."

"We were surprised (and happy, of course) when we learned our model would be the latest one in the LEGO Ideas series. What we like about the LEGO Ideas platform is the feedback and support you get from the community. It's great to reply to comments, read suggestions and improve your model in the updates. Of course, the chance of designing your own LEGO set is also really cool!"

Felix Stiessen



Valérie Roche





Carl Thomas Merriam (left)
Michael Psiaki (middle)
Austin William Carlson (right)

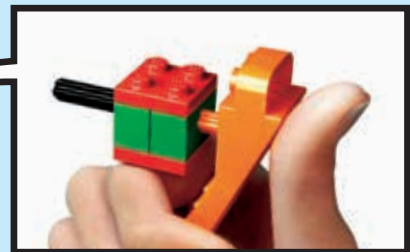
LEGO® designers

Michael Psiaki, Carl Thomas Merriam and Austin William Carlson are all full-time LEGO® designers and avid space enthusiasts, so this was a project they very much wanted to be a part of. As Michael explains:

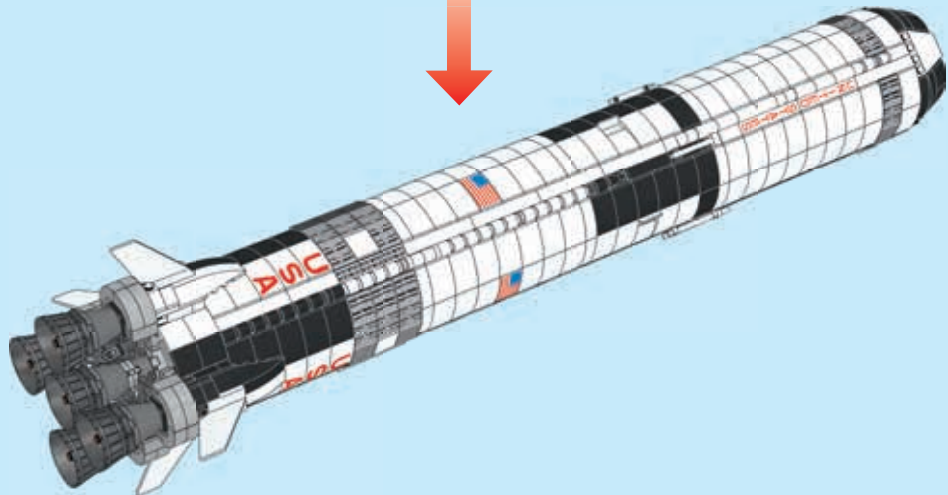
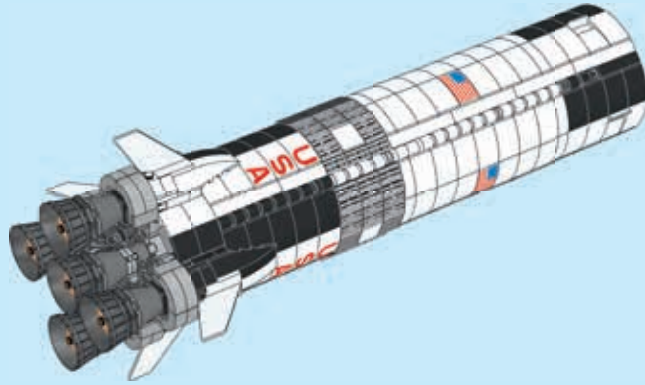
"We were actually not asked. I was so excited when I heard that the project was potentially going to happen, and told Carl about it because I knew he was also a space fanatic. We decided it would be really cool to work together since it is such a big model, so we approached the Ideas team about helping to develop the product."

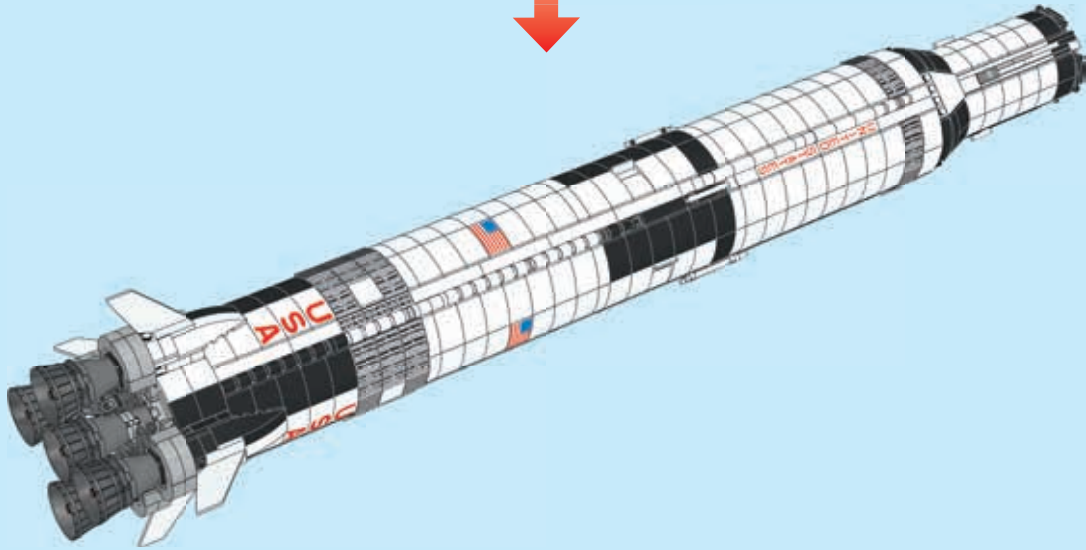
"We were amazed by how big the actual model was and how it was able to separate into all of the different stages and components. This was very difficult to implement in our final design, since we needed to make sure that the rocket was strong enough when connected together, but also easy to separate."

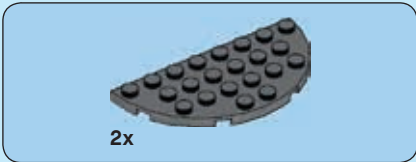
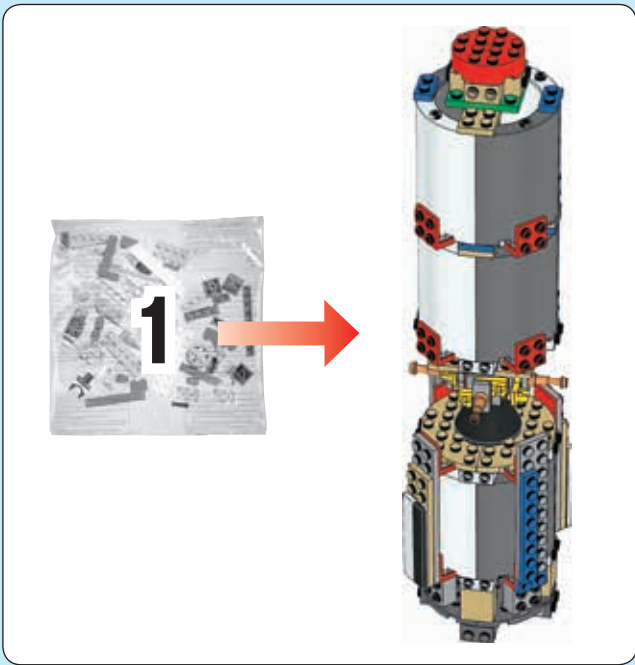




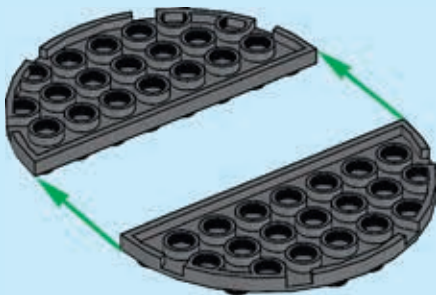
LEGO.com/brickseparator



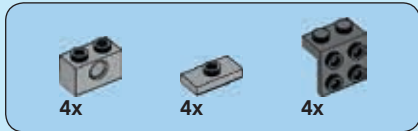
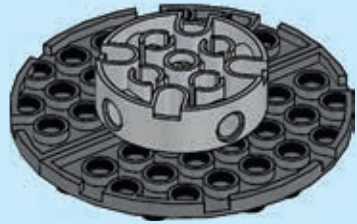




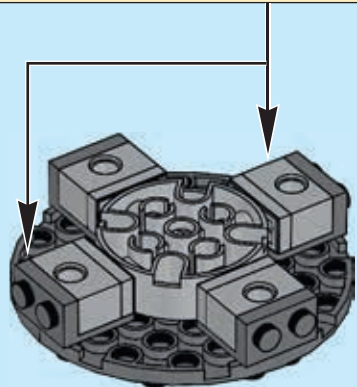
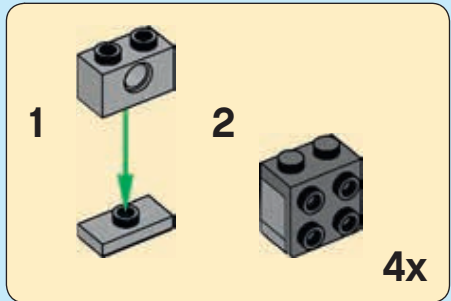
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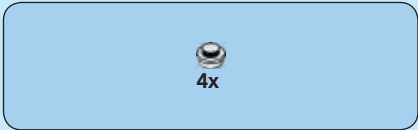


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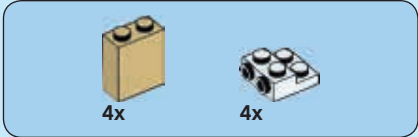
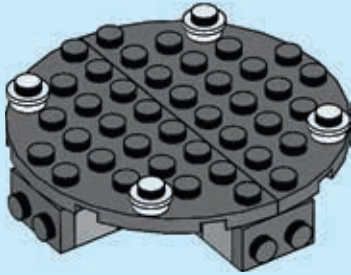
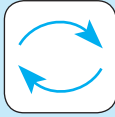


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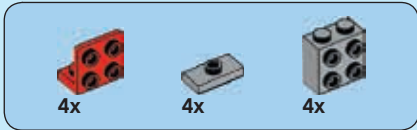
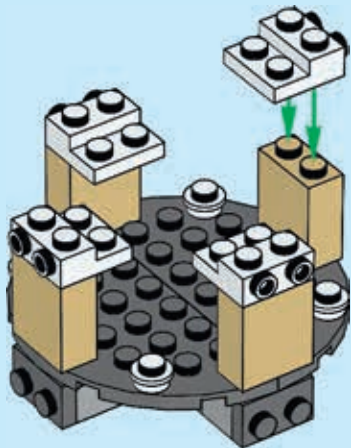




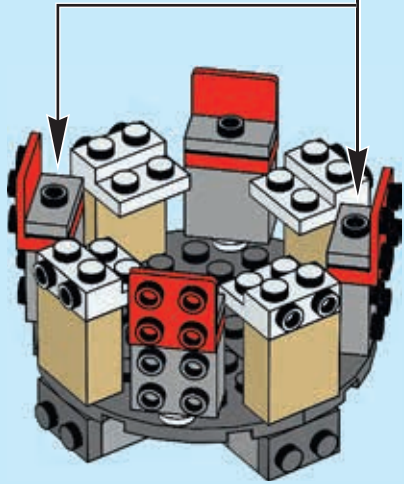
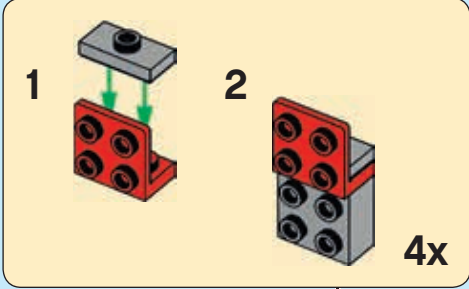
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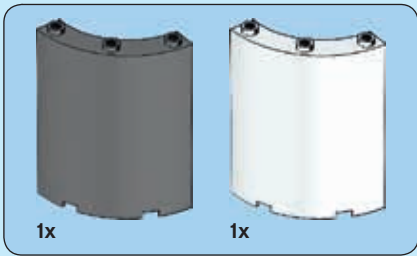


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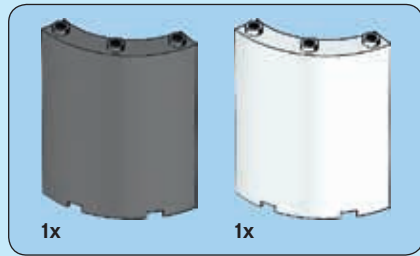
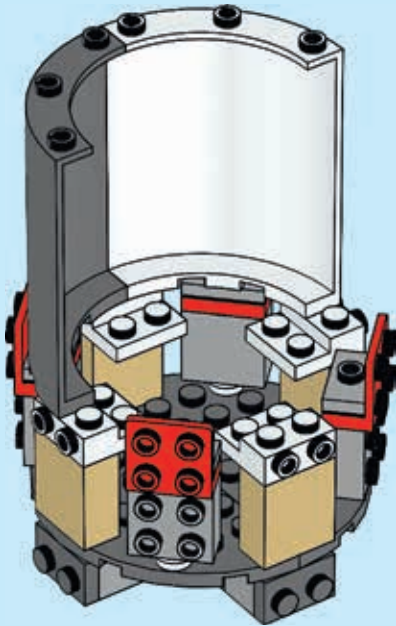


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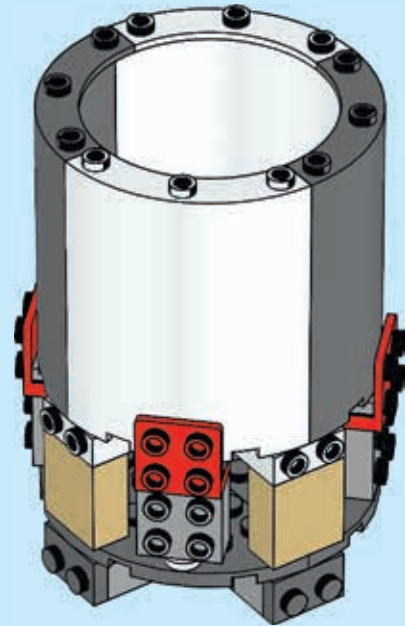




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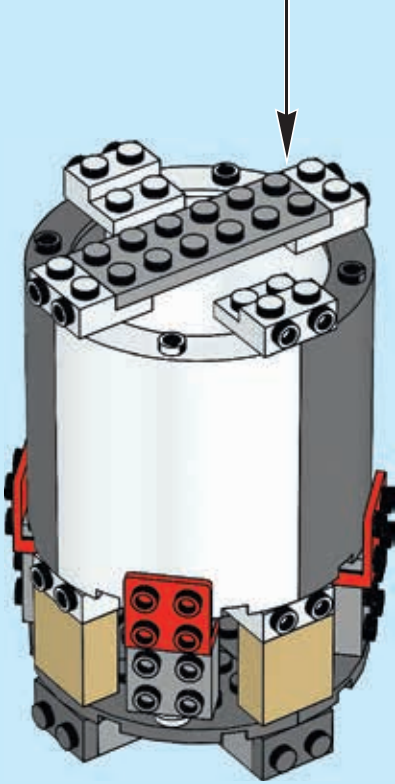
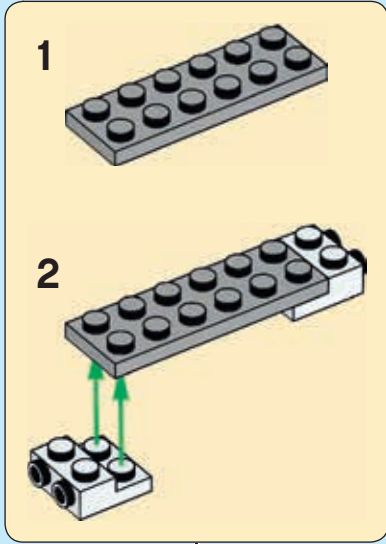


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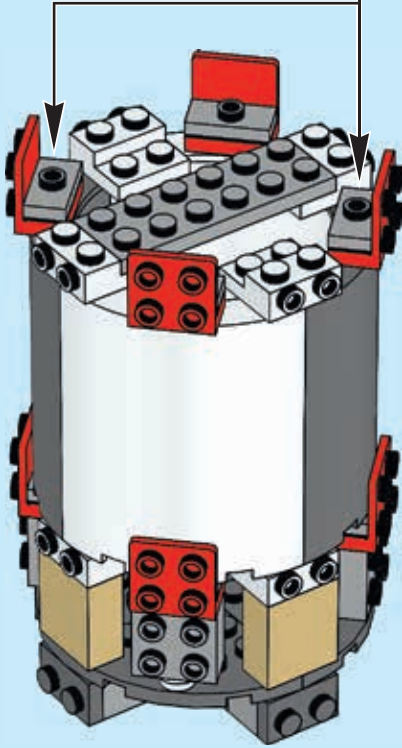
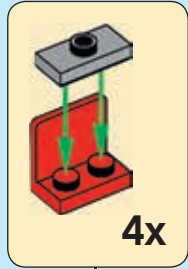


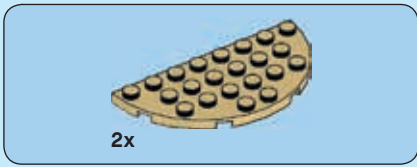


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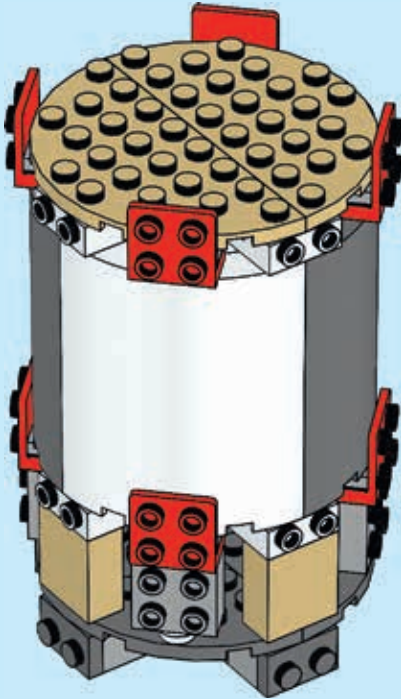


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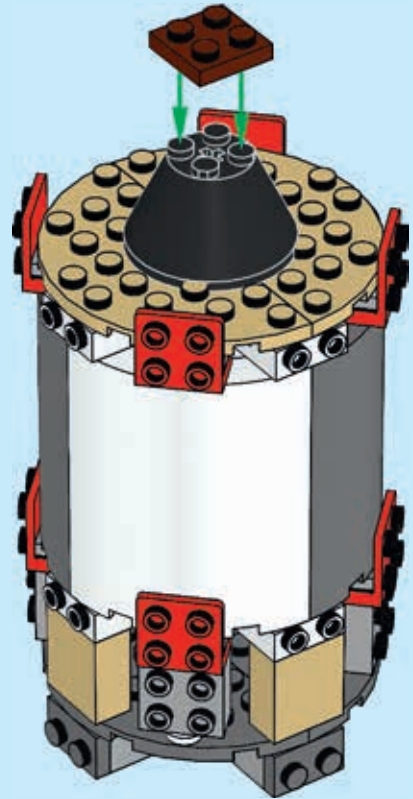




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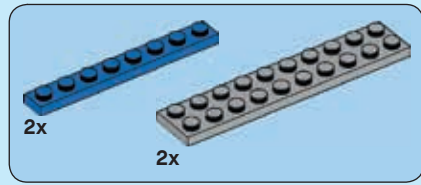
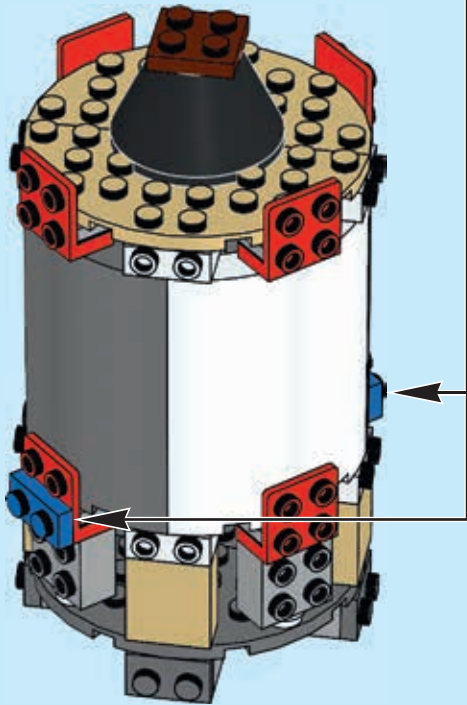


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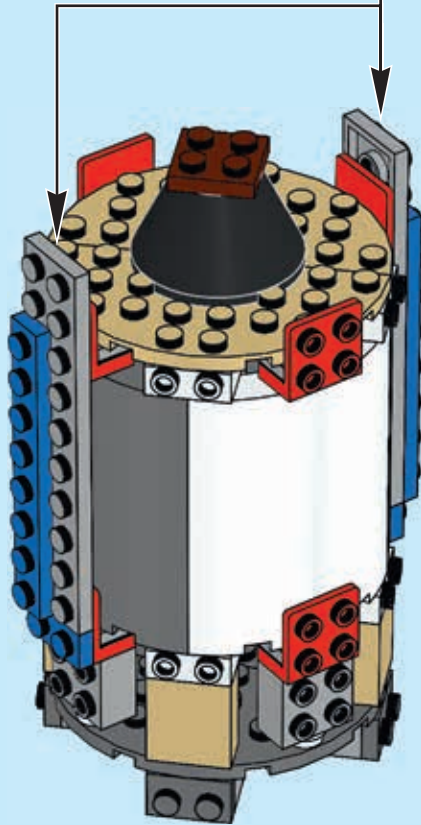
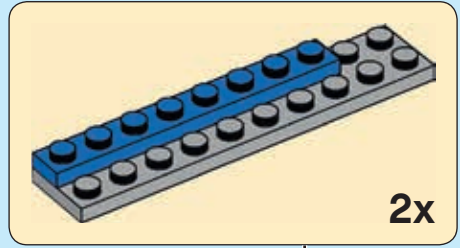


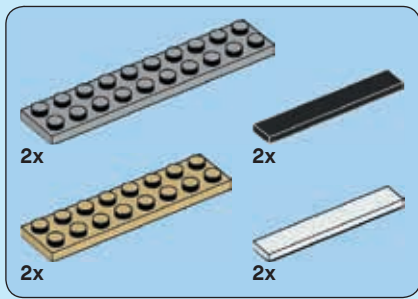


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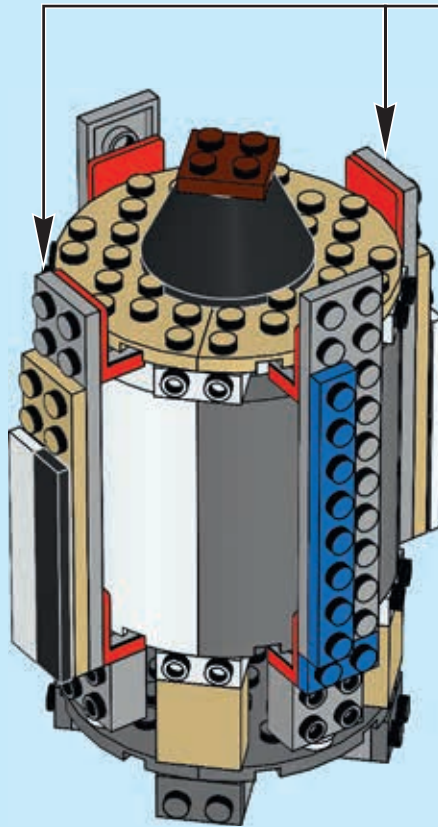
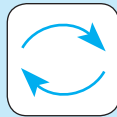
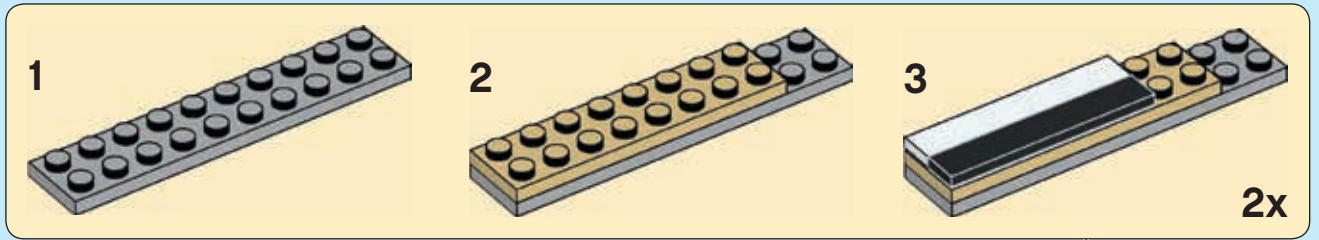


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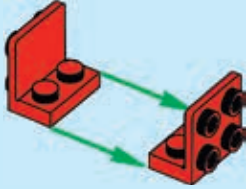
15





2x

16



1x

17



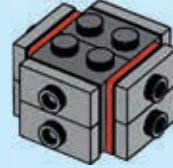
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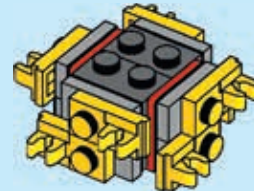
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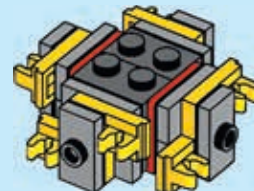
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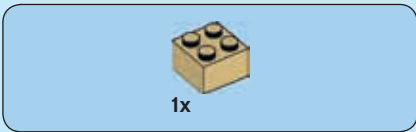
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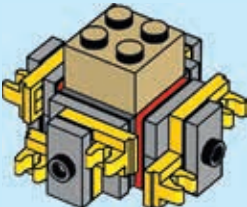
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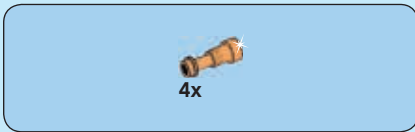
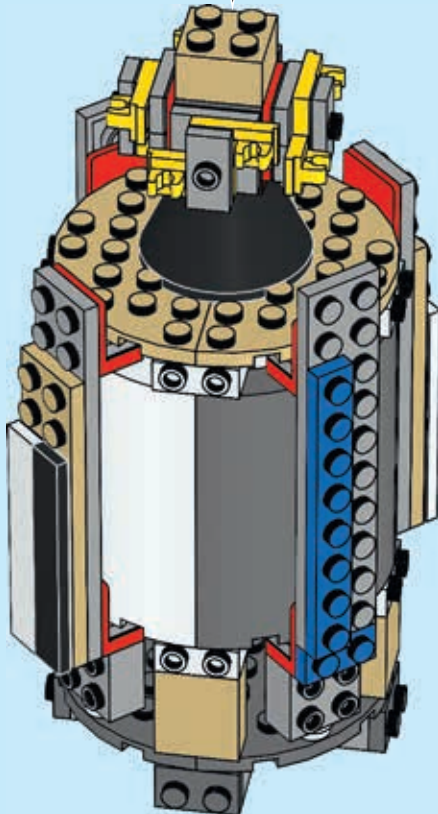




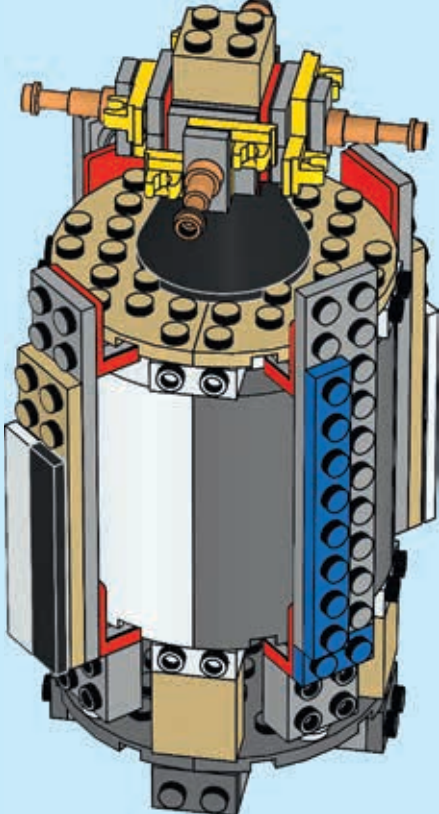
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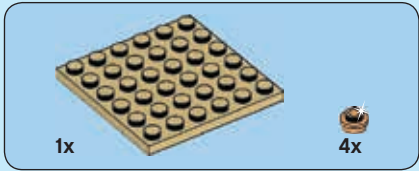


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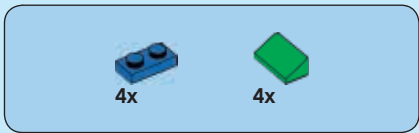
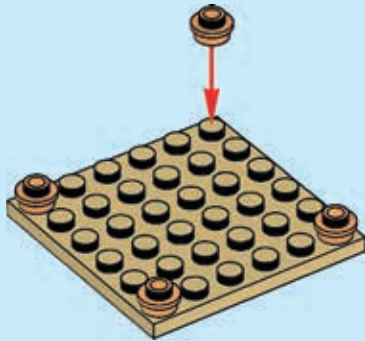


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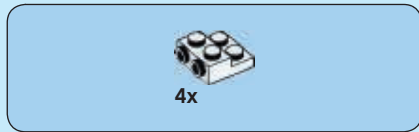




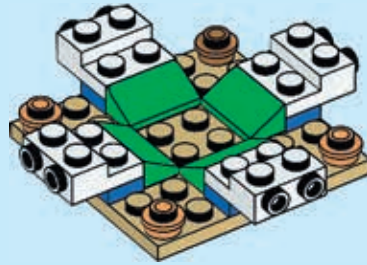
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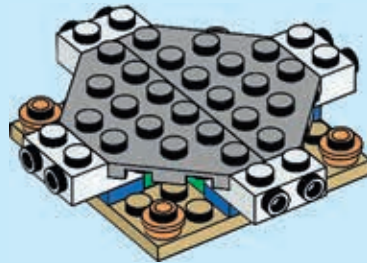
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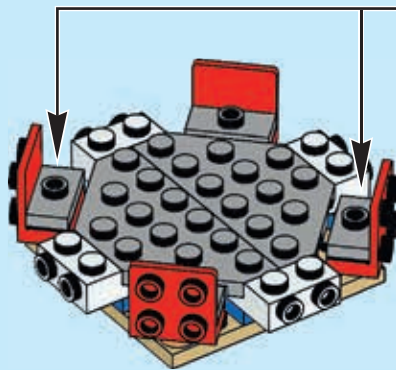
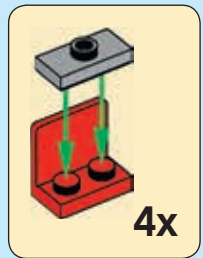
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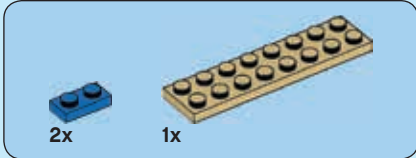
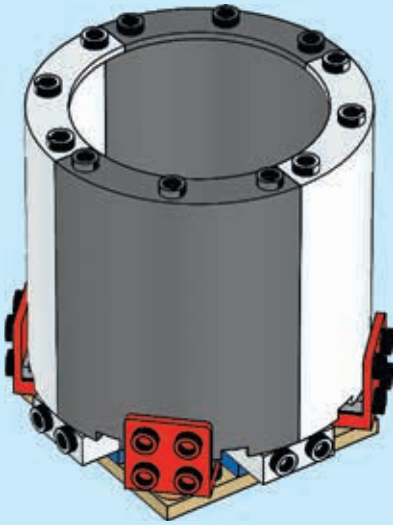


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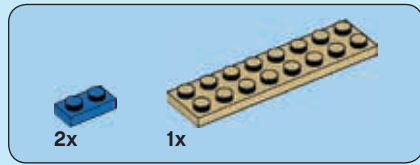
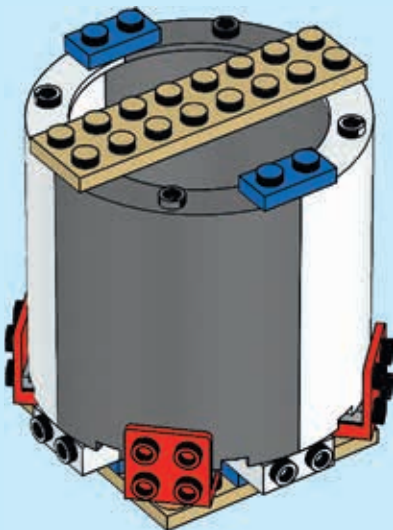




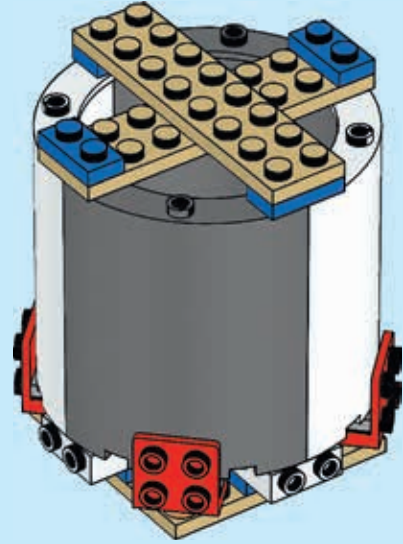
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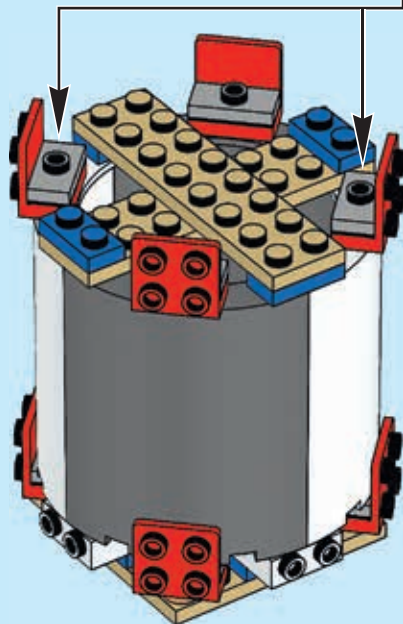
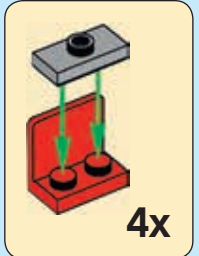
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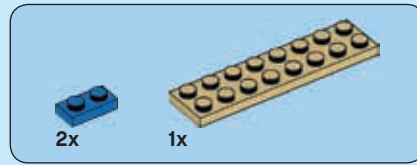
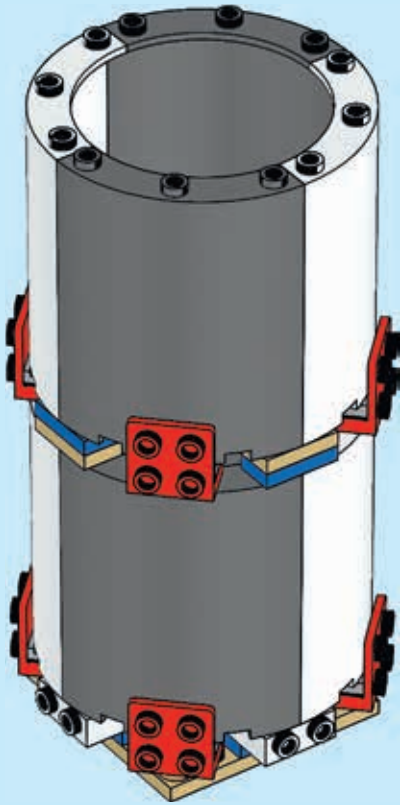


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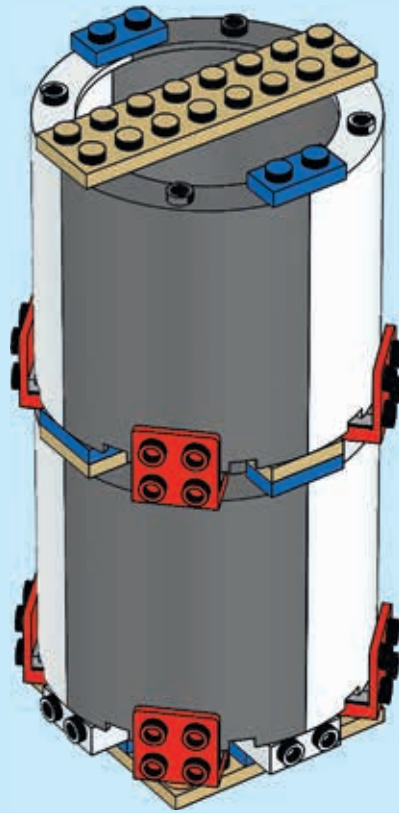


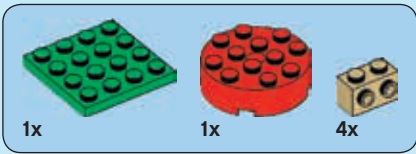


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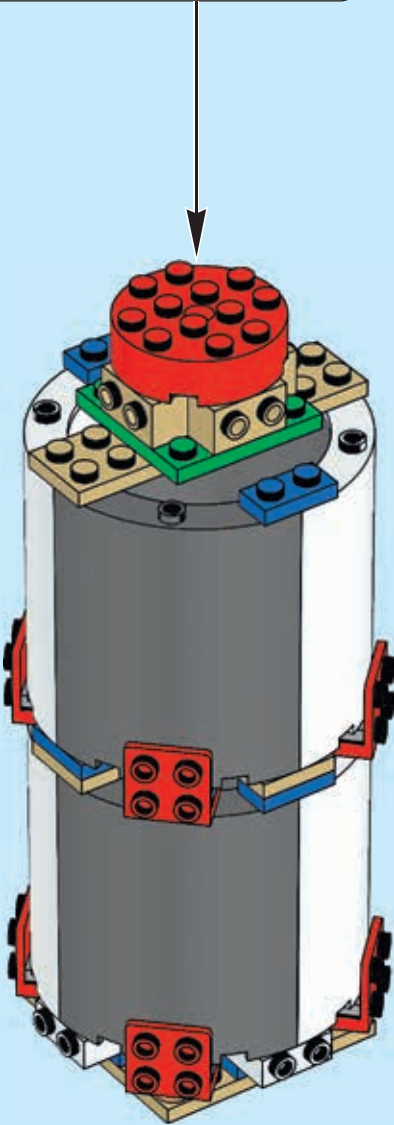
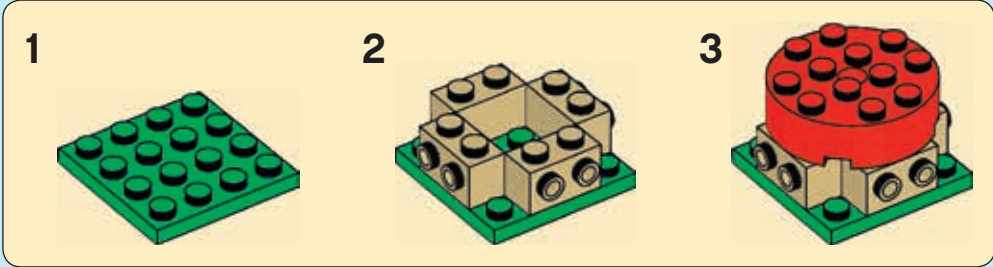


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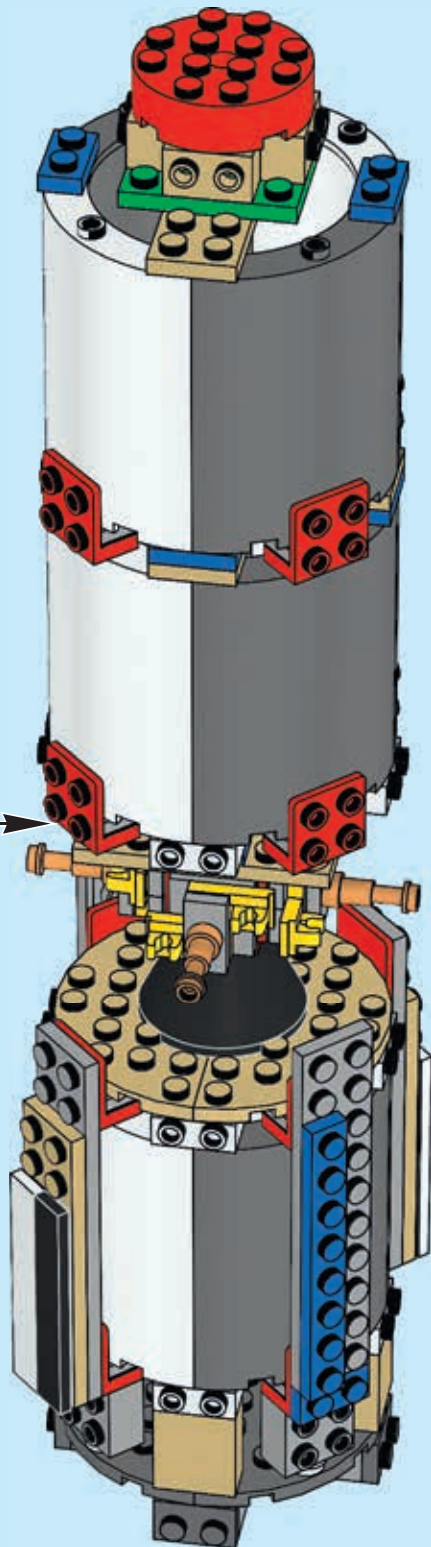


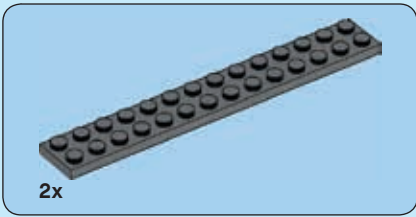
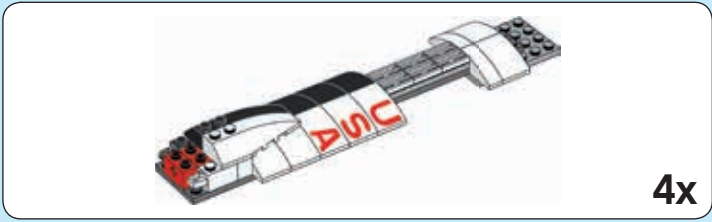
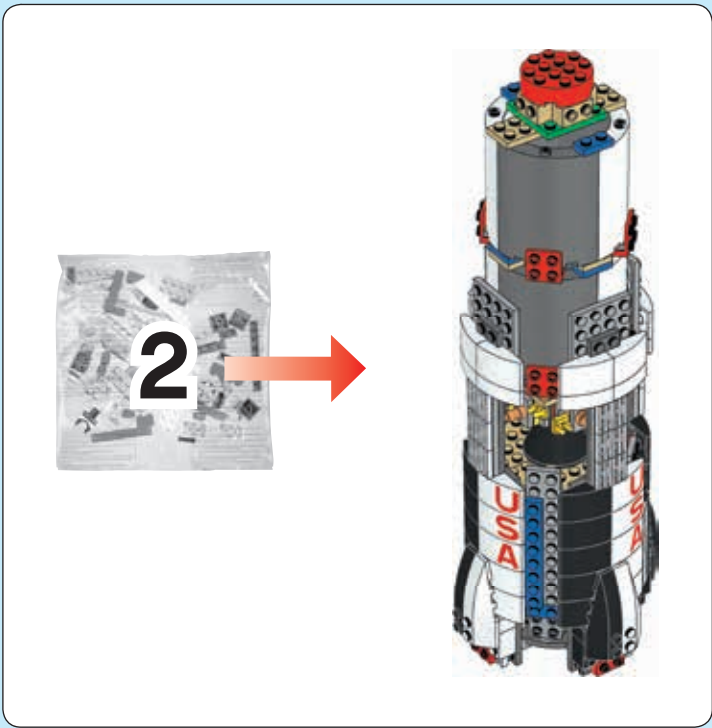


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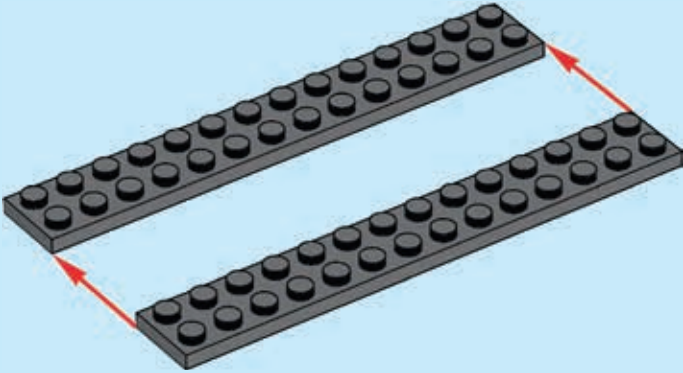


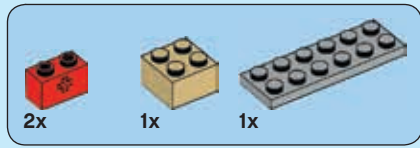
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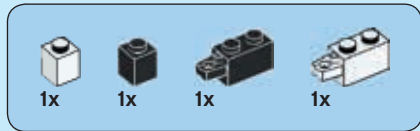
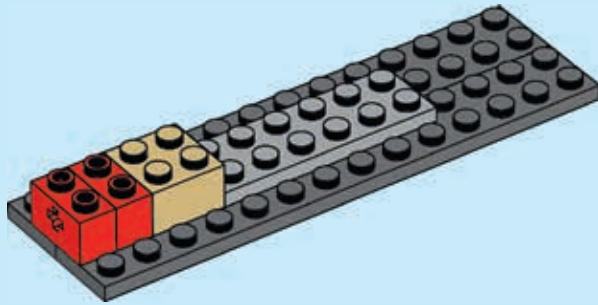


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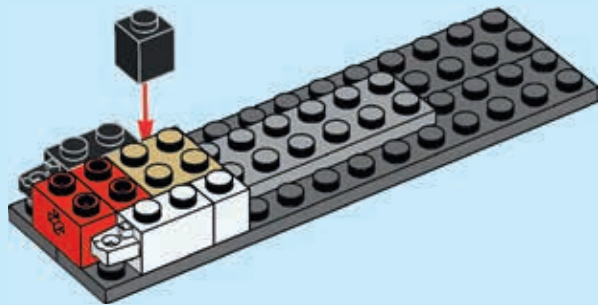




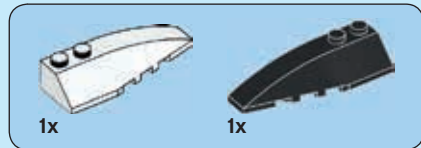
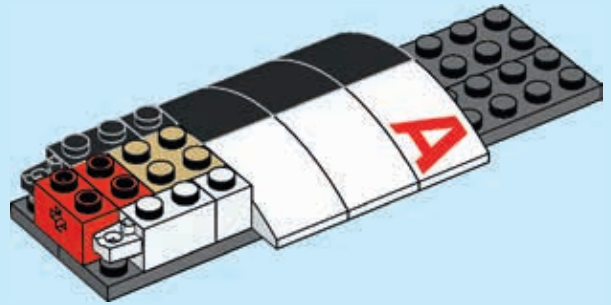
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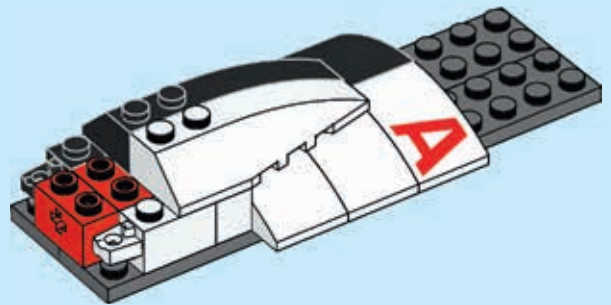
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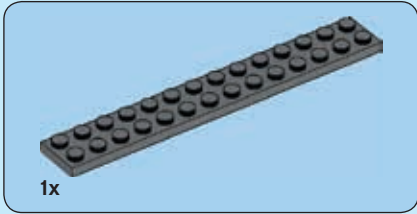


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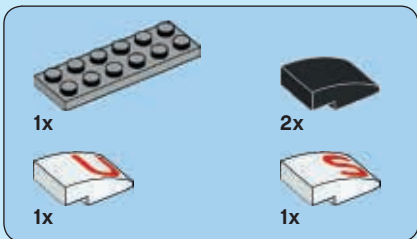
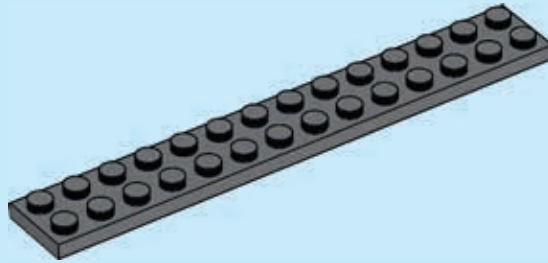


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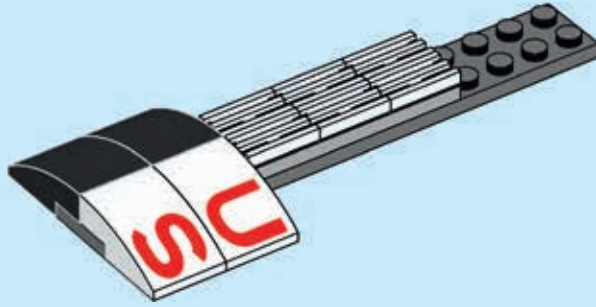
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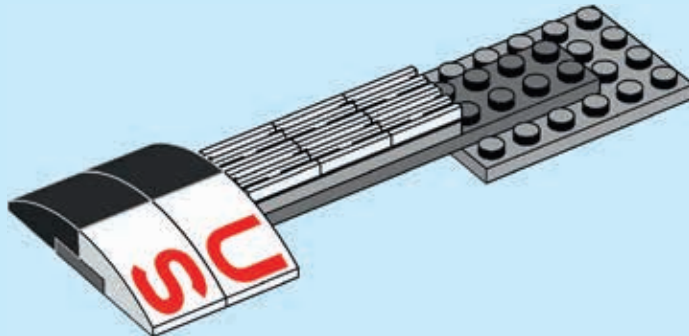
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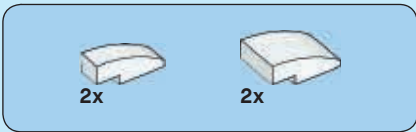
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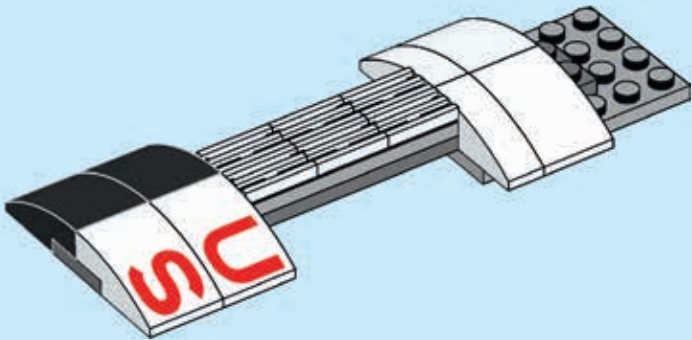
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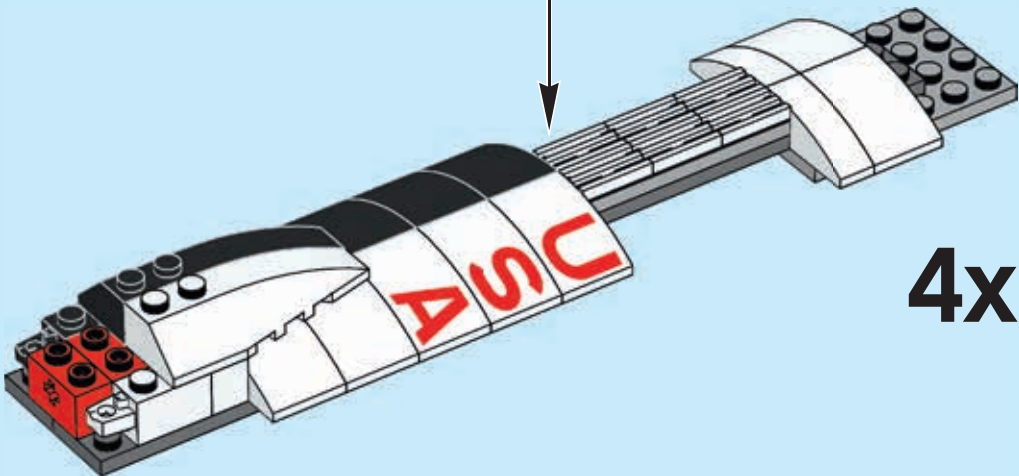




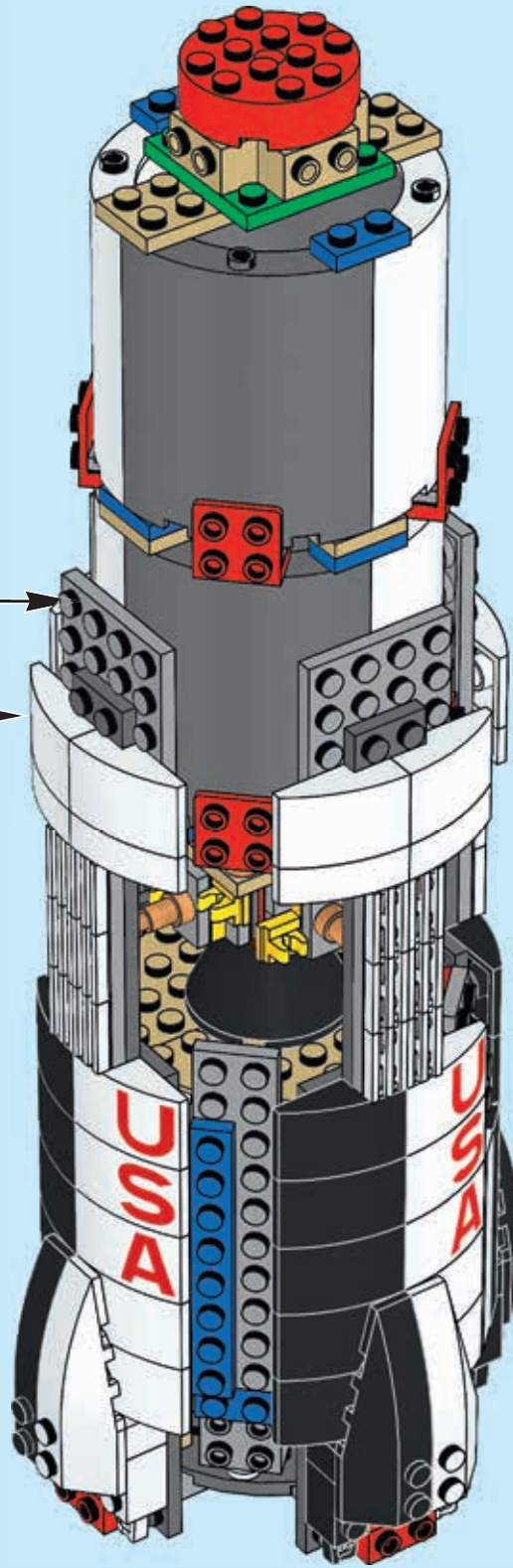
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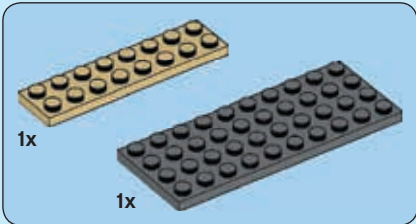
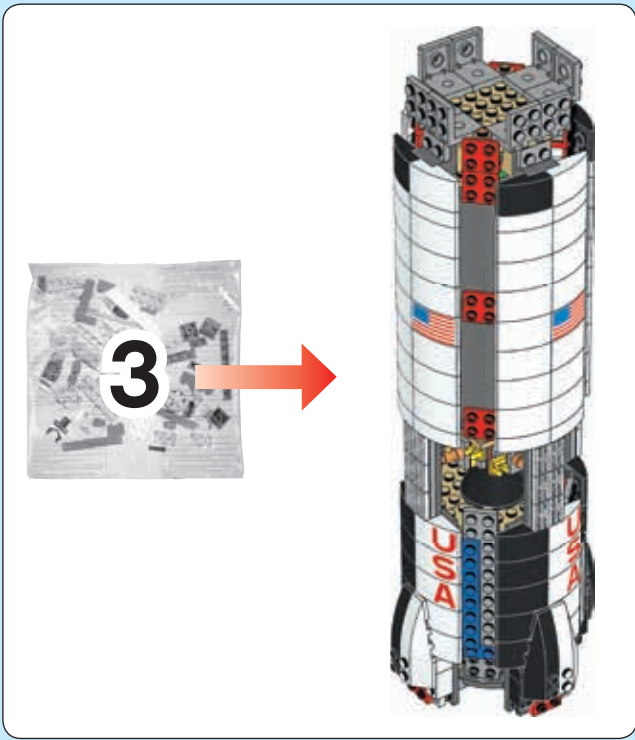


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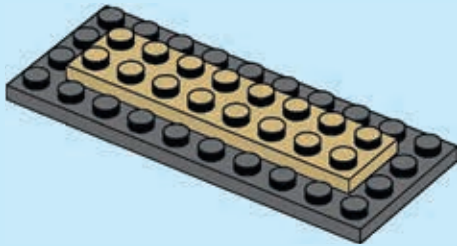


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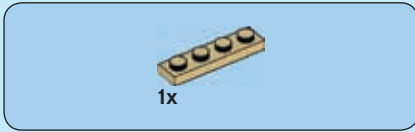
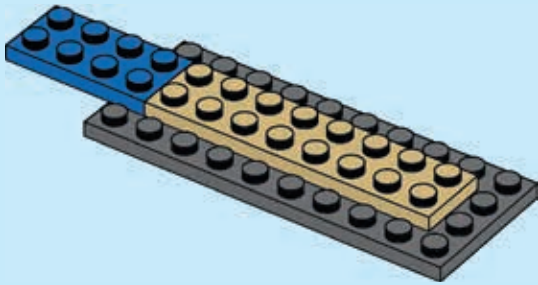




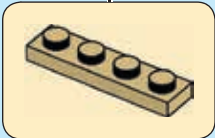
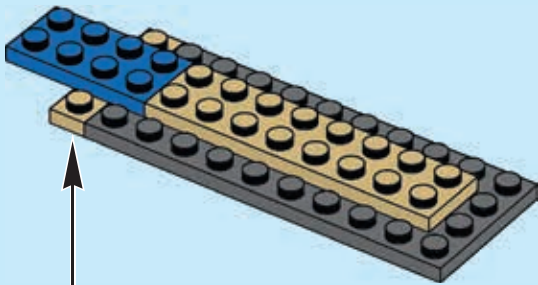
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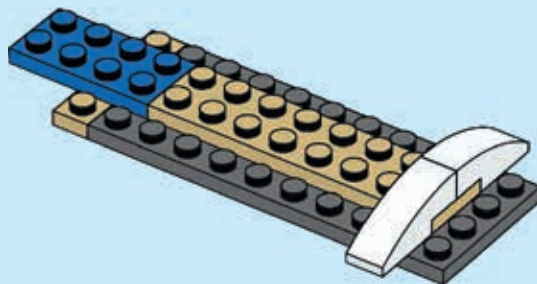
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53

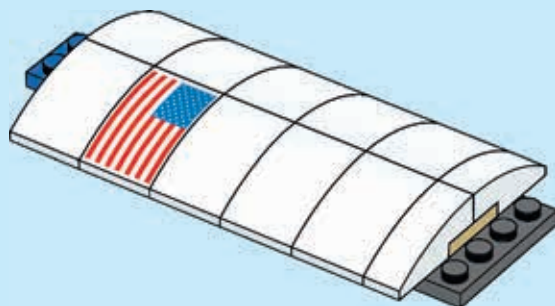


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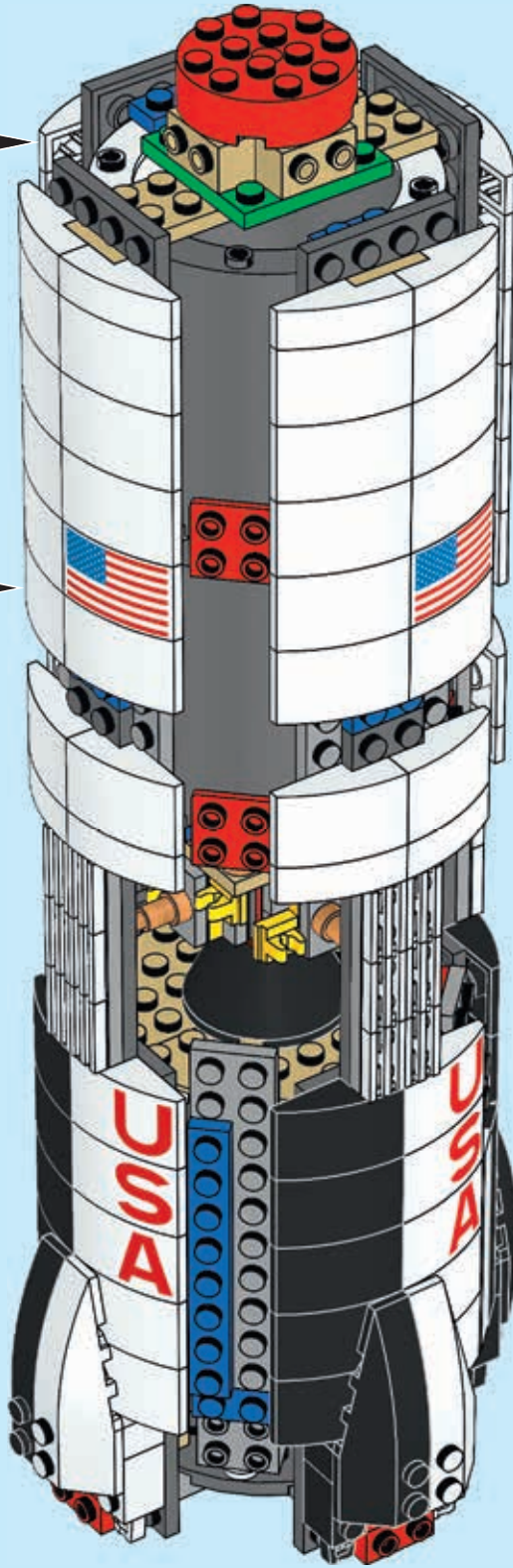
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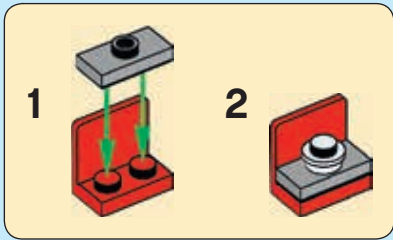
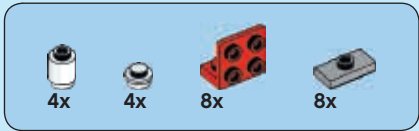
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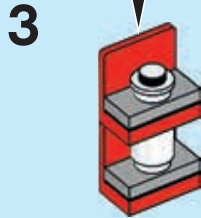
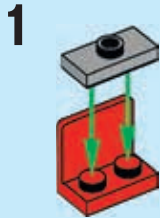
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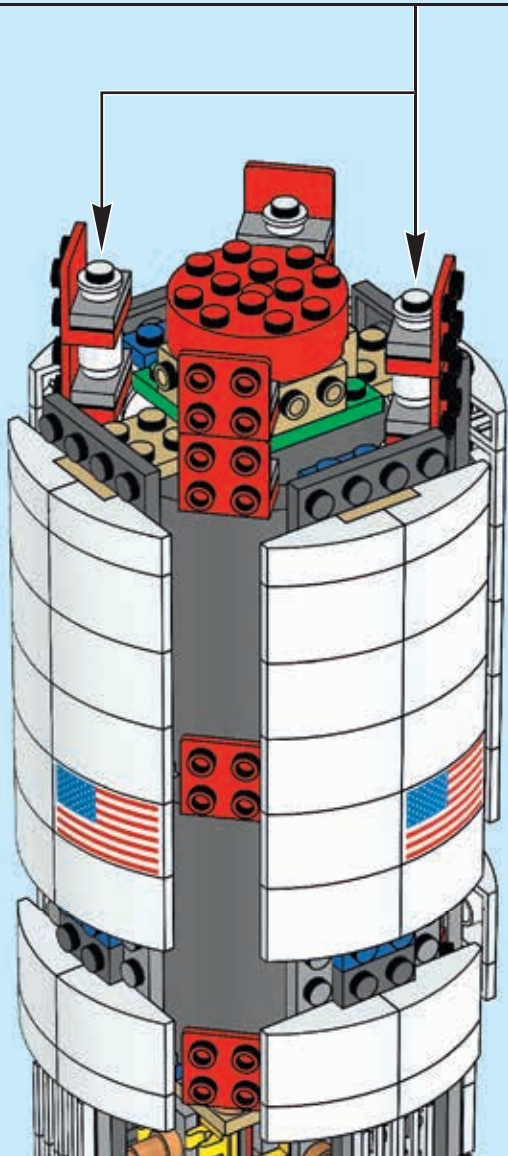




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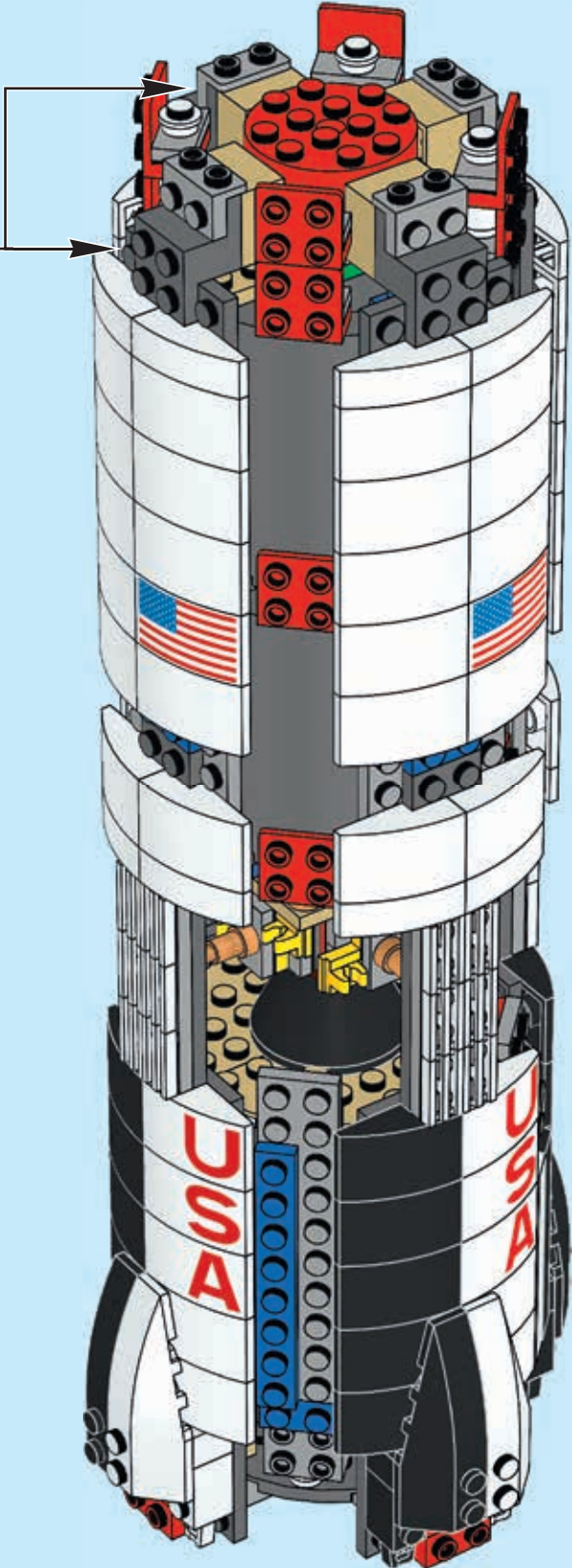
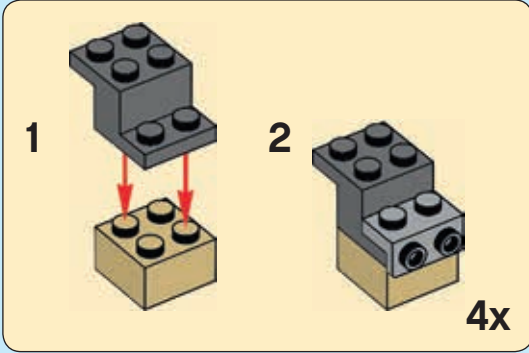


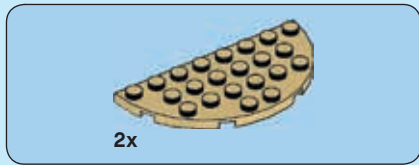
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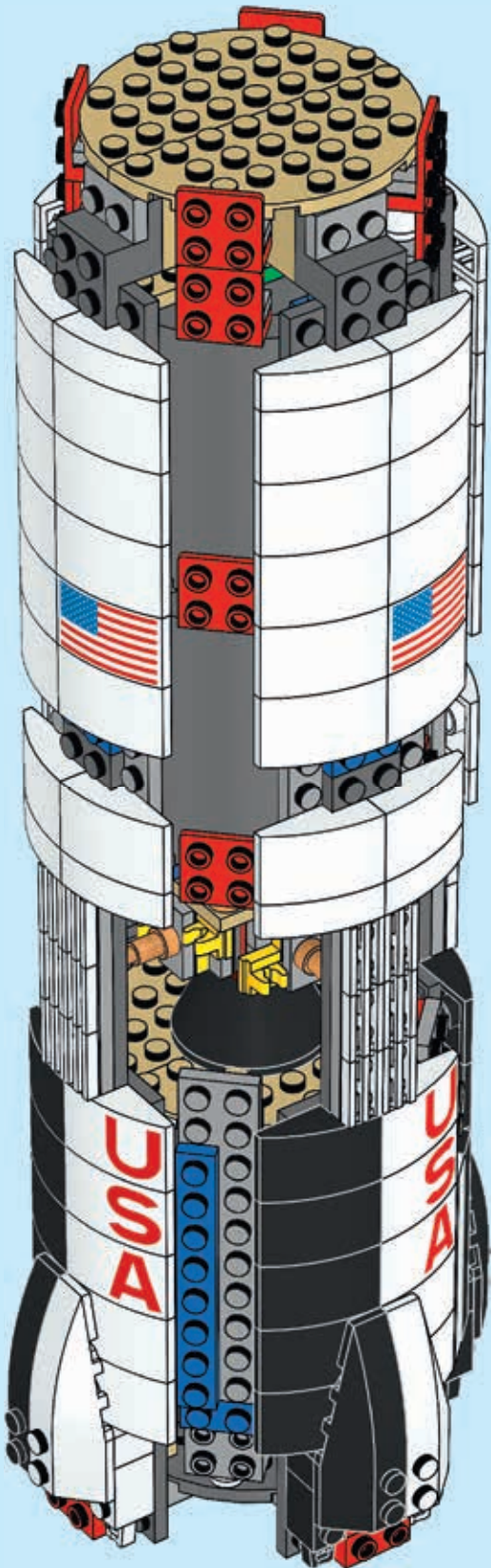


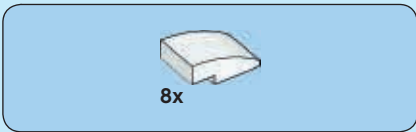
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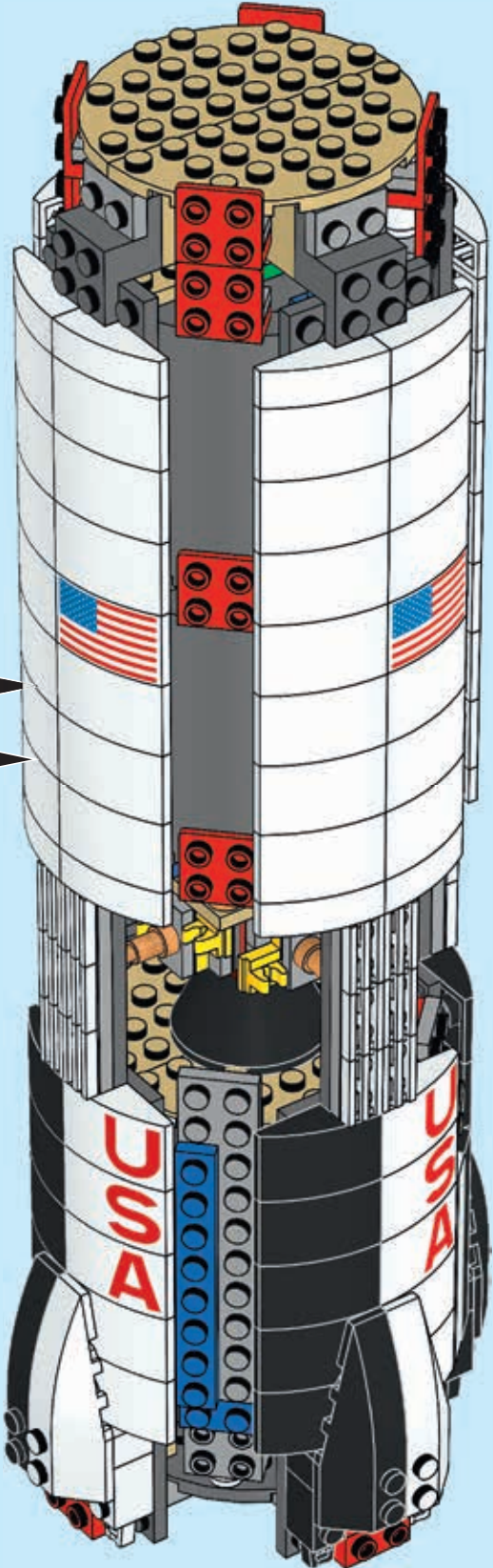
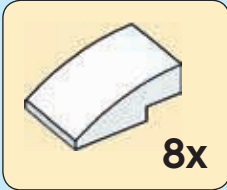


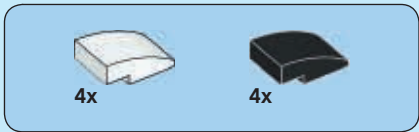
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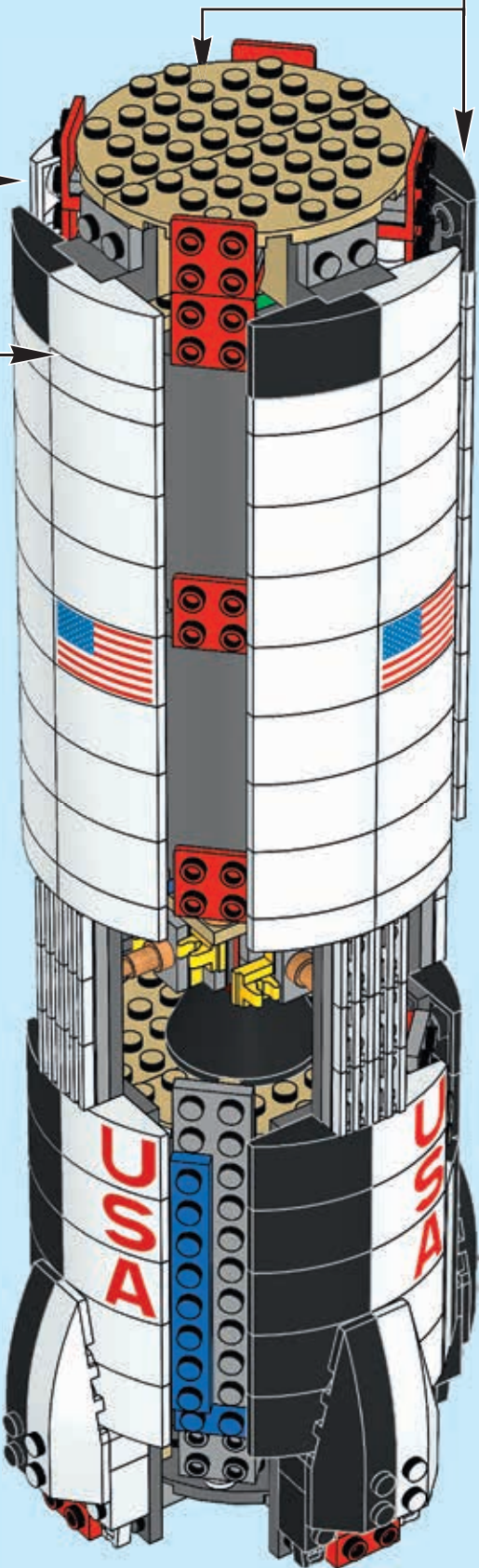


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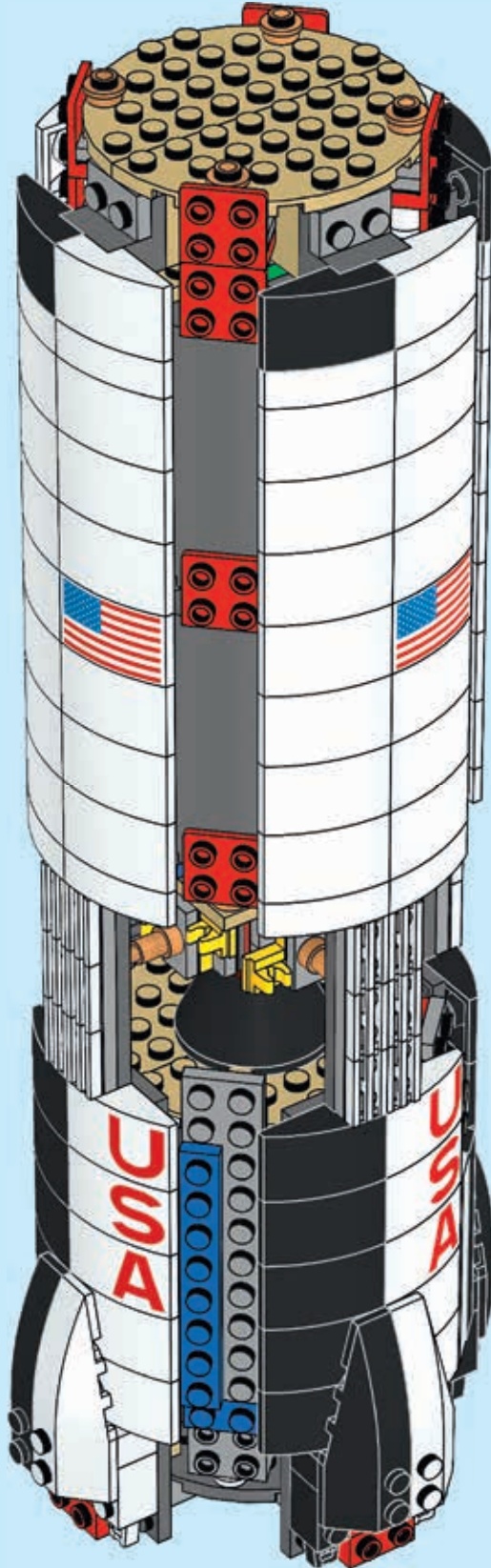
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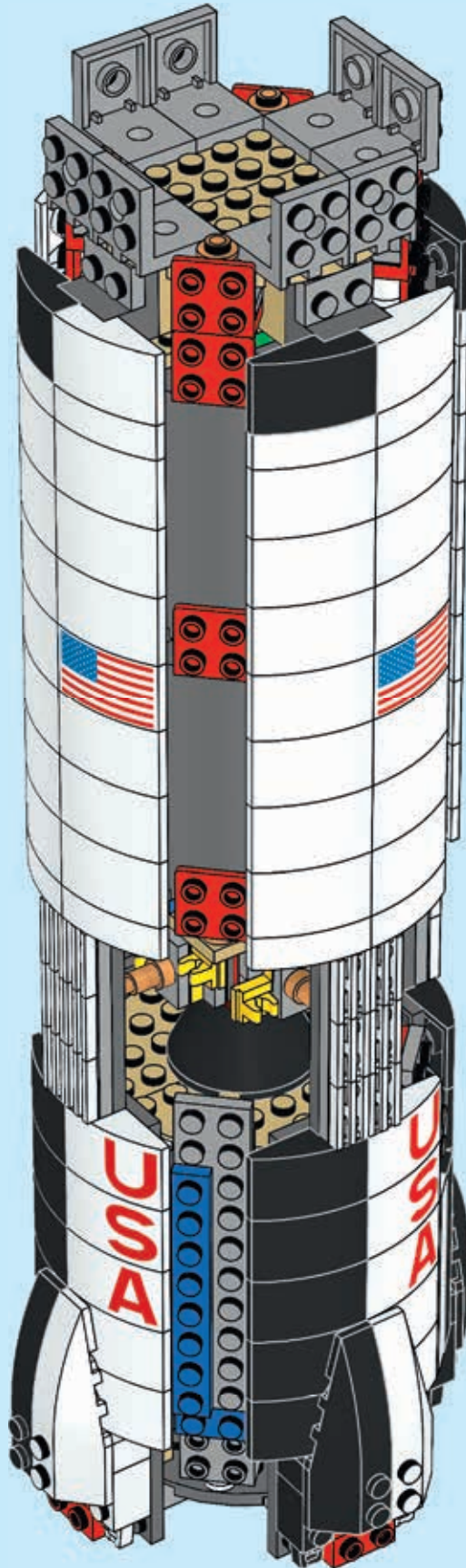
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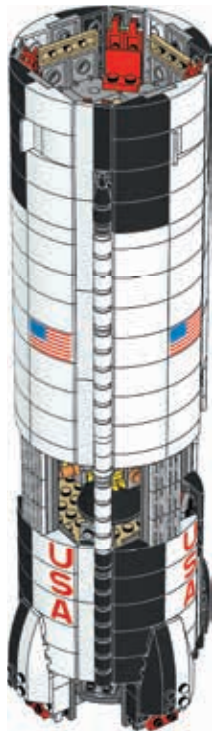
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62



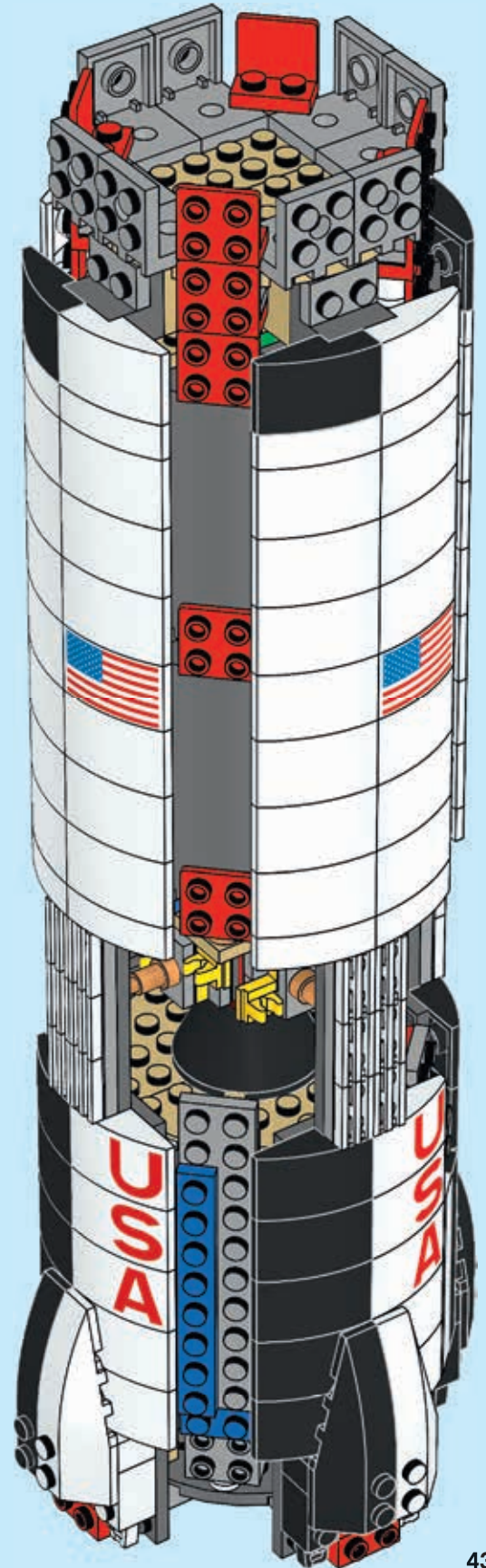


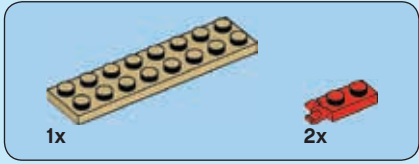
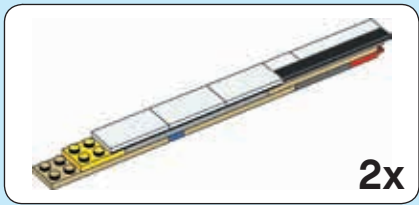
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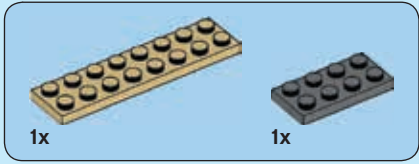
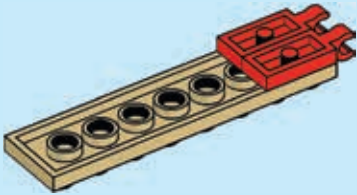
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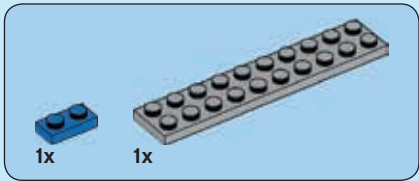
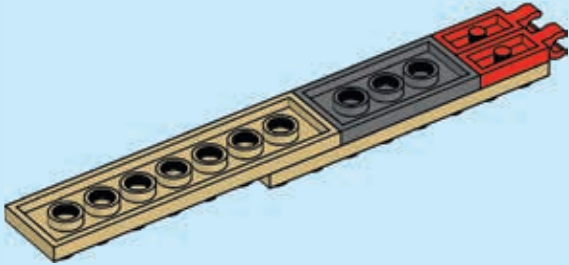




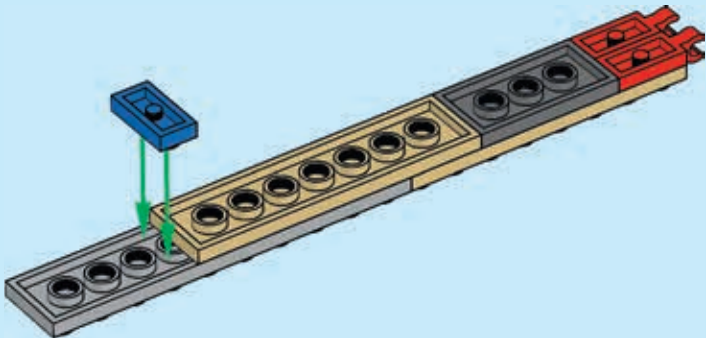
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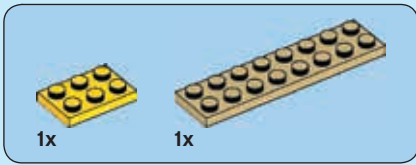


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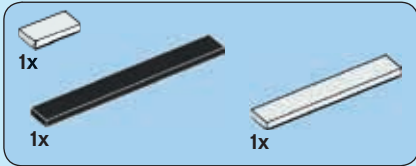
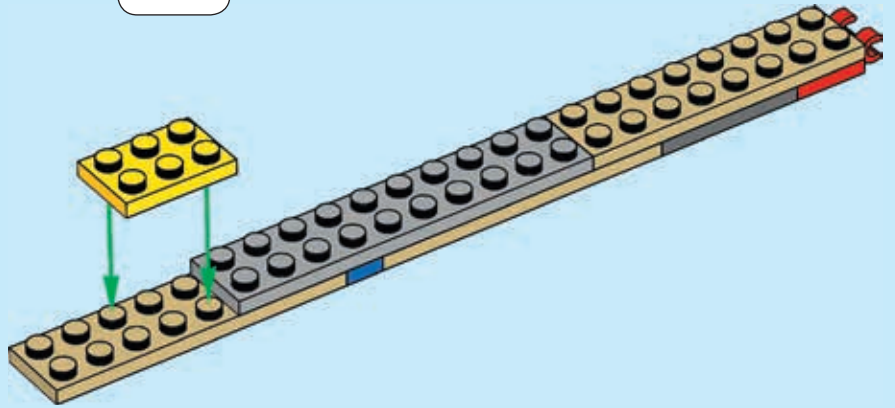


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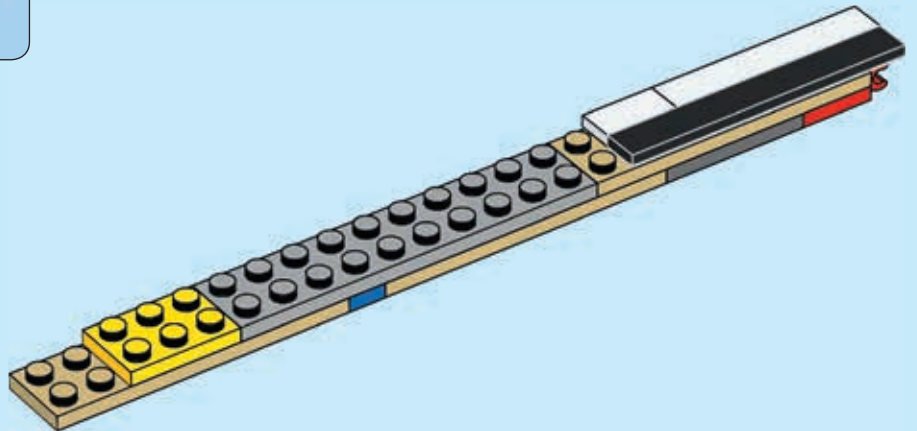




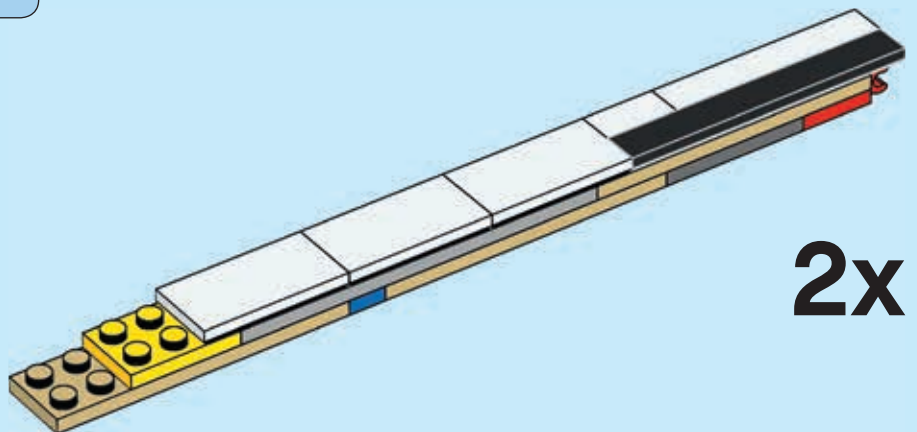
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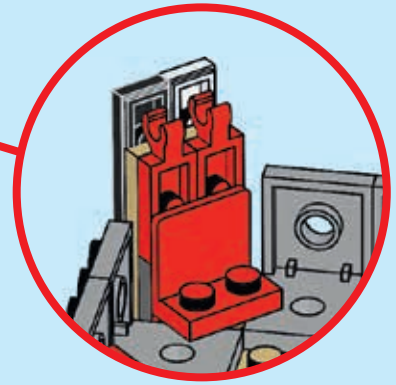
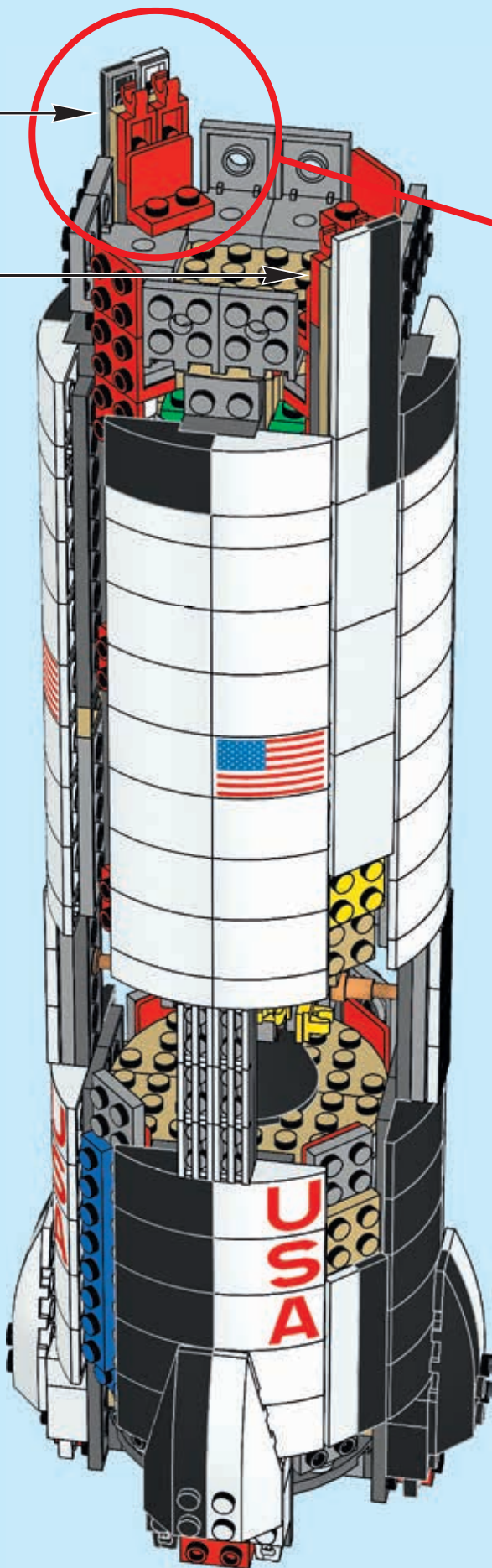


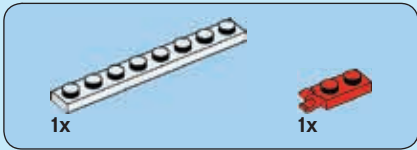
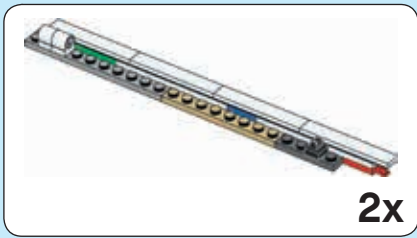
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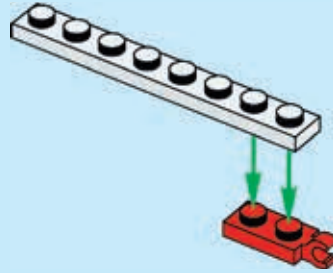
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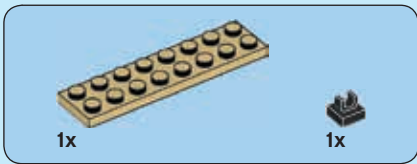
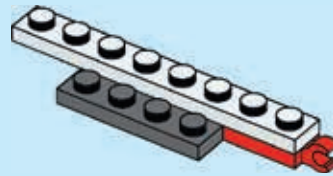




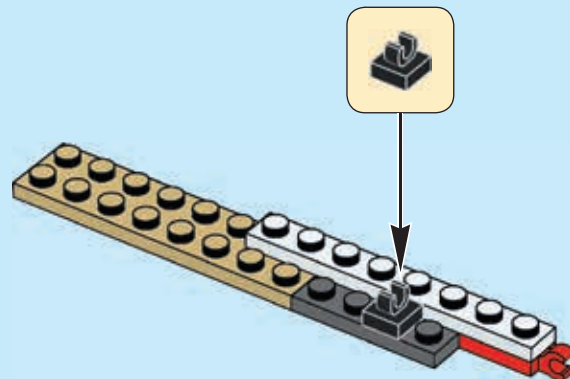
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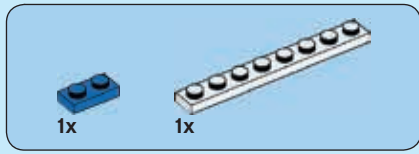


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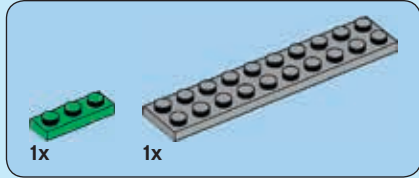
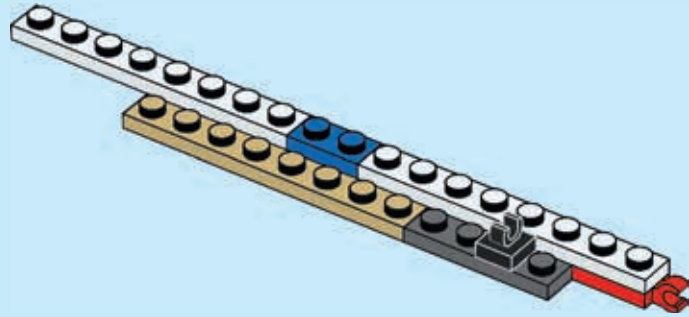


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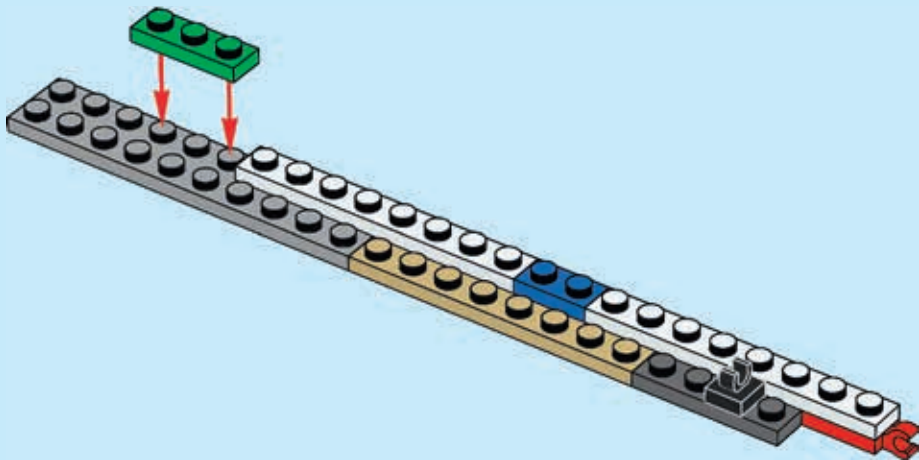




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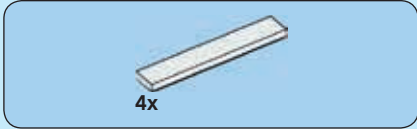
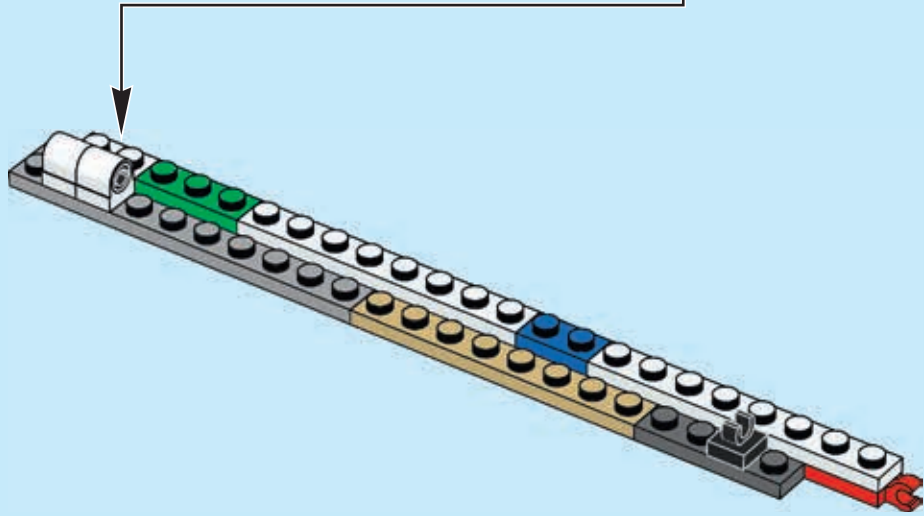
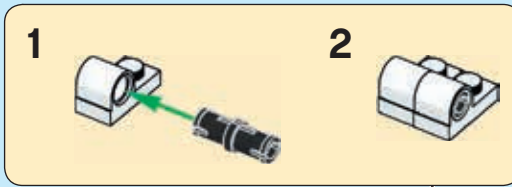


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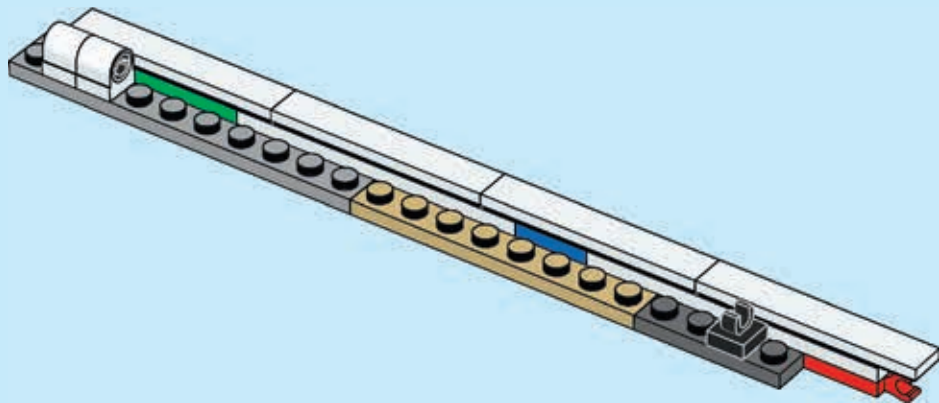




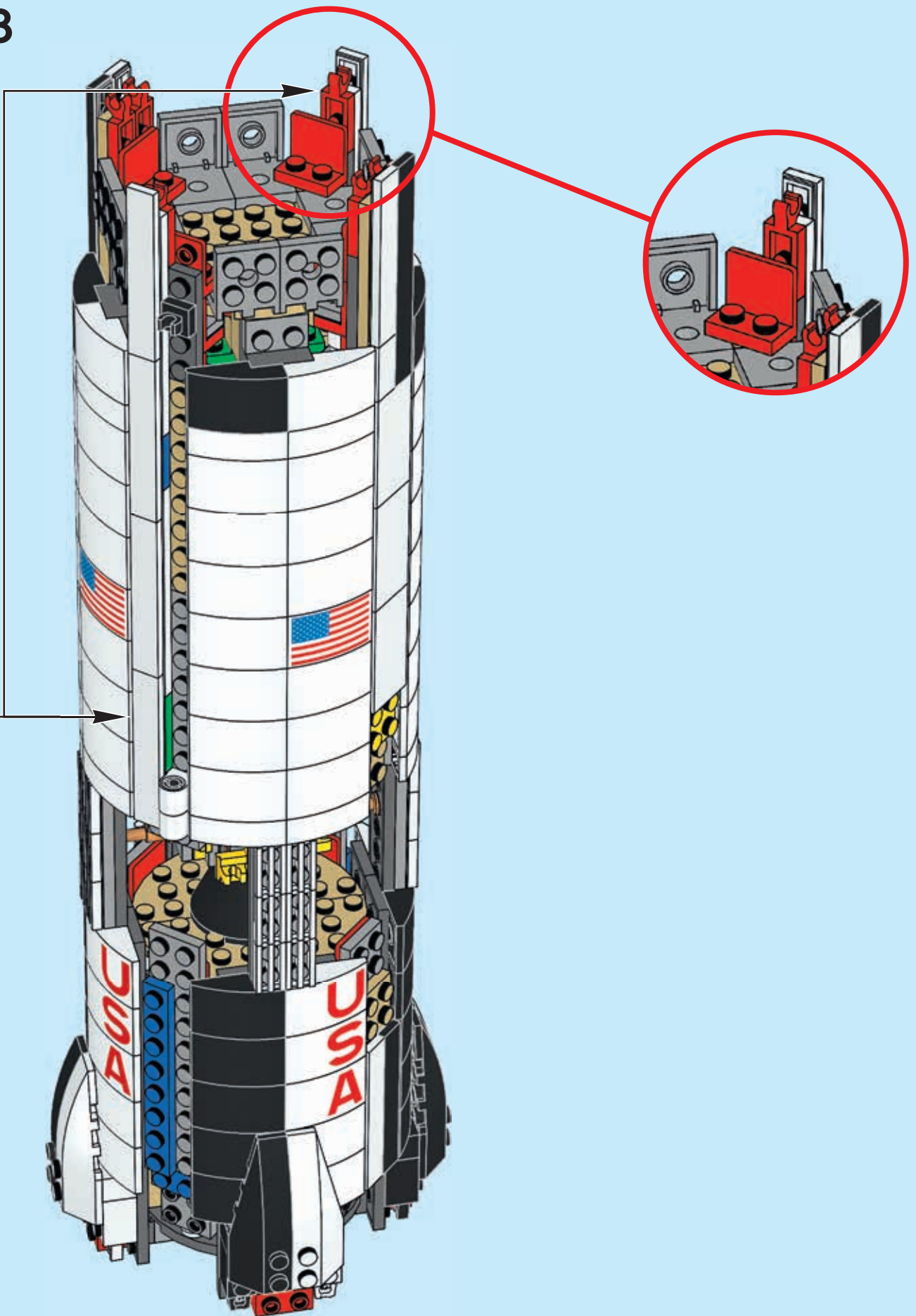
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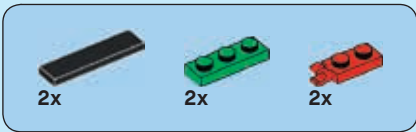


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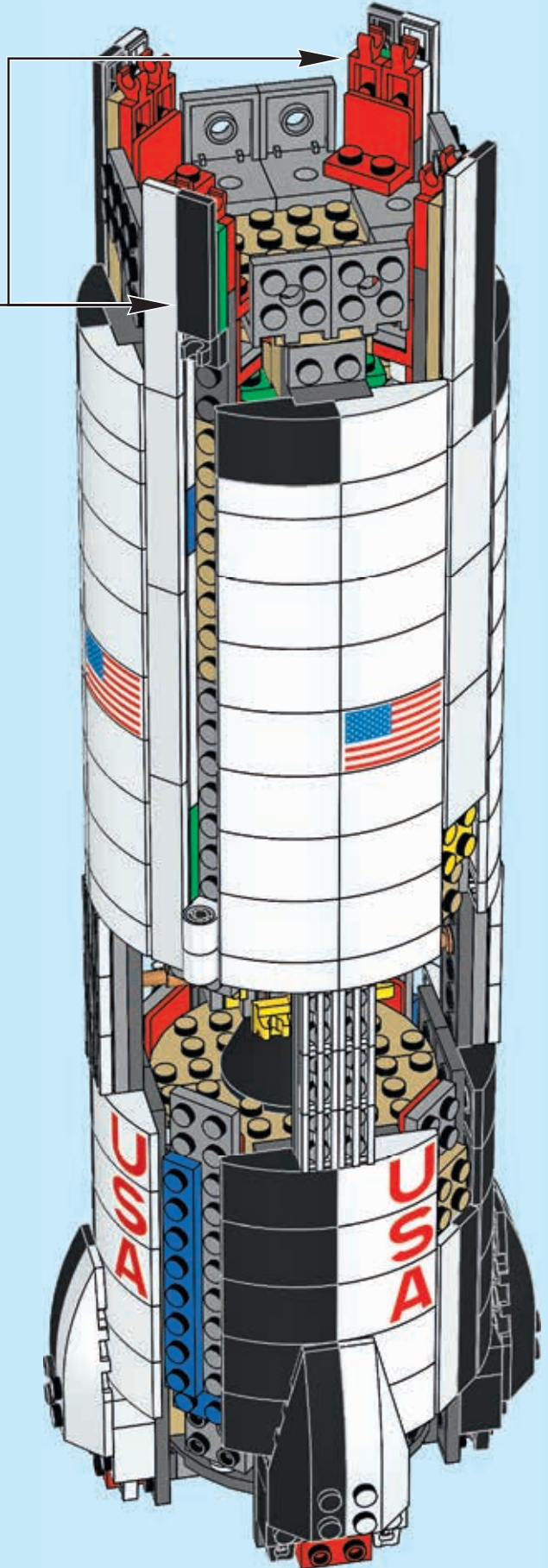
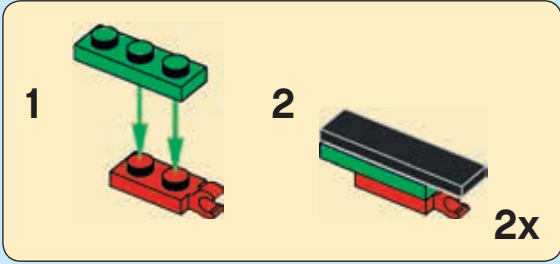


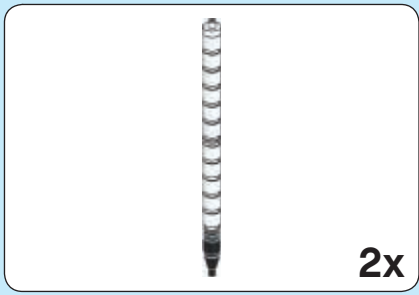
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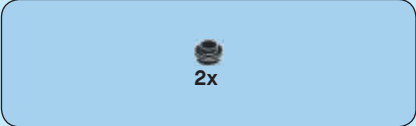


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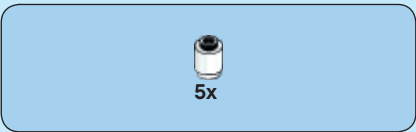




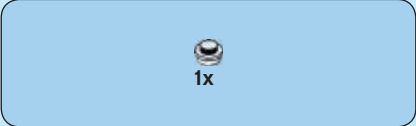
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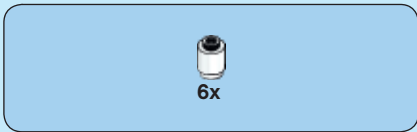


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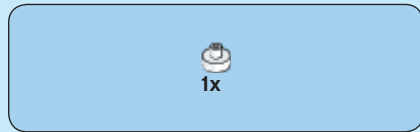


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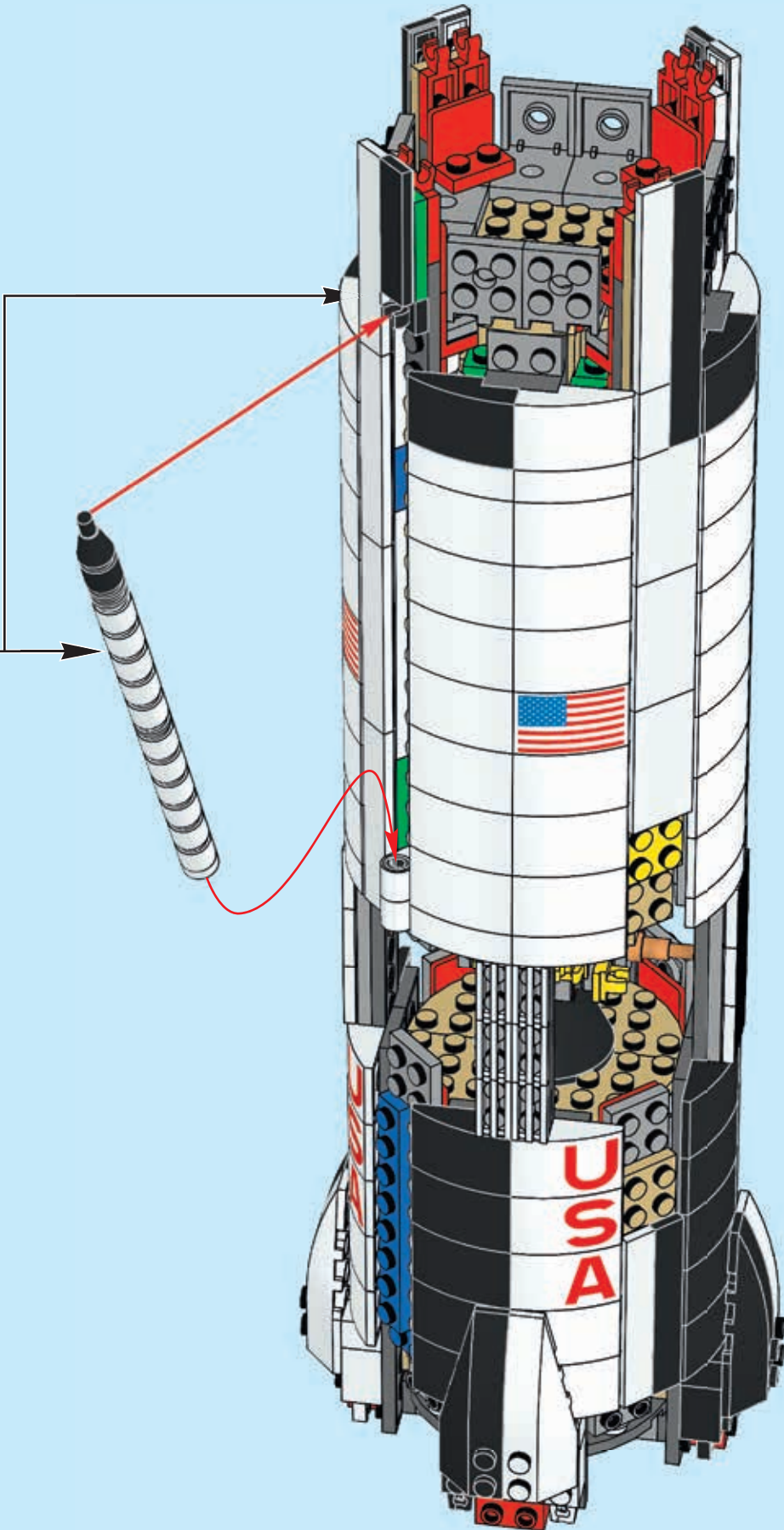
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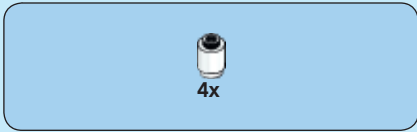


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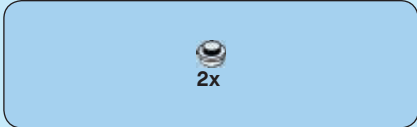


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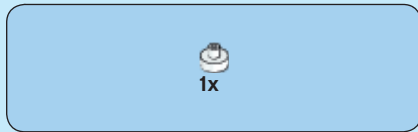




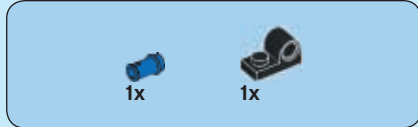
87



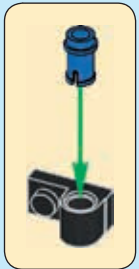
88



89

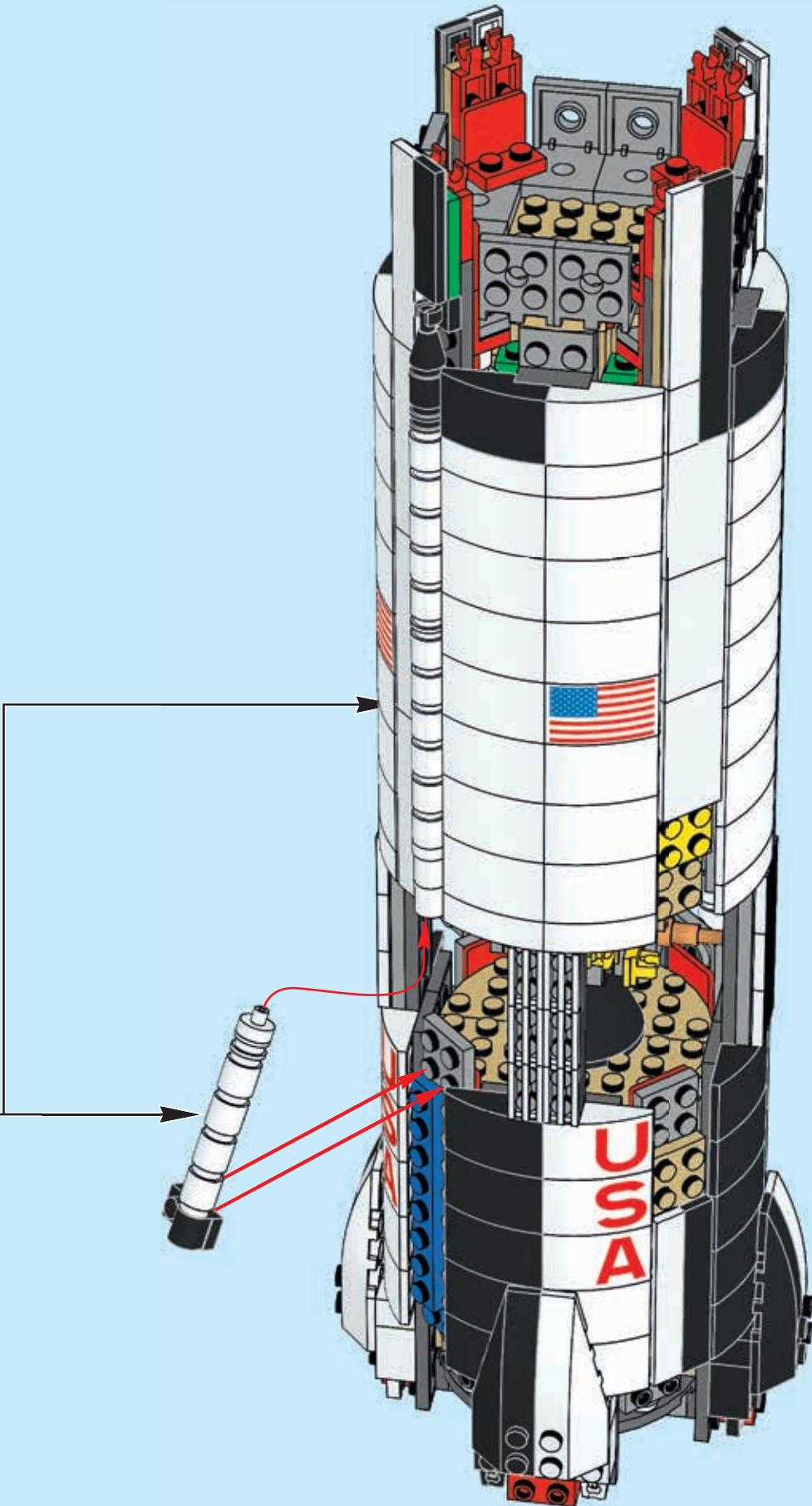


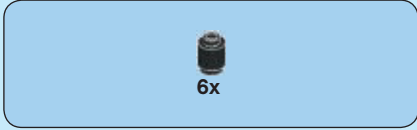
90



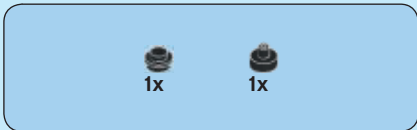
2x

91





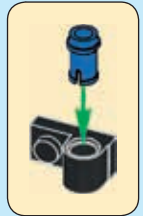
92



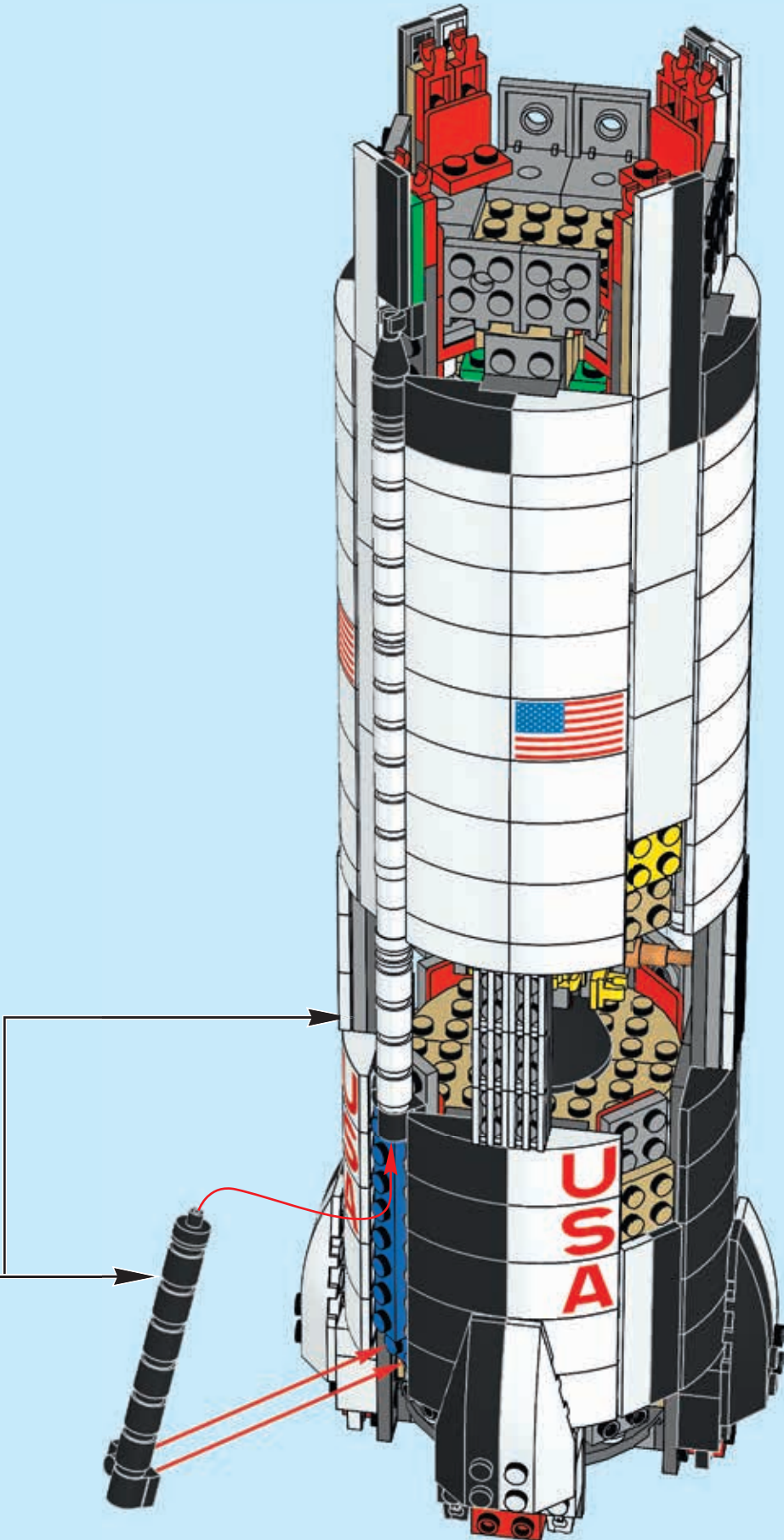
93

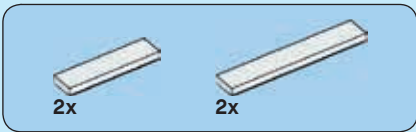


94

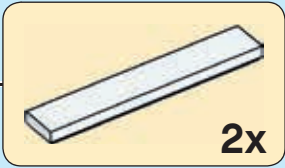
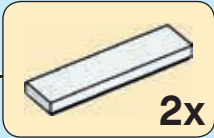
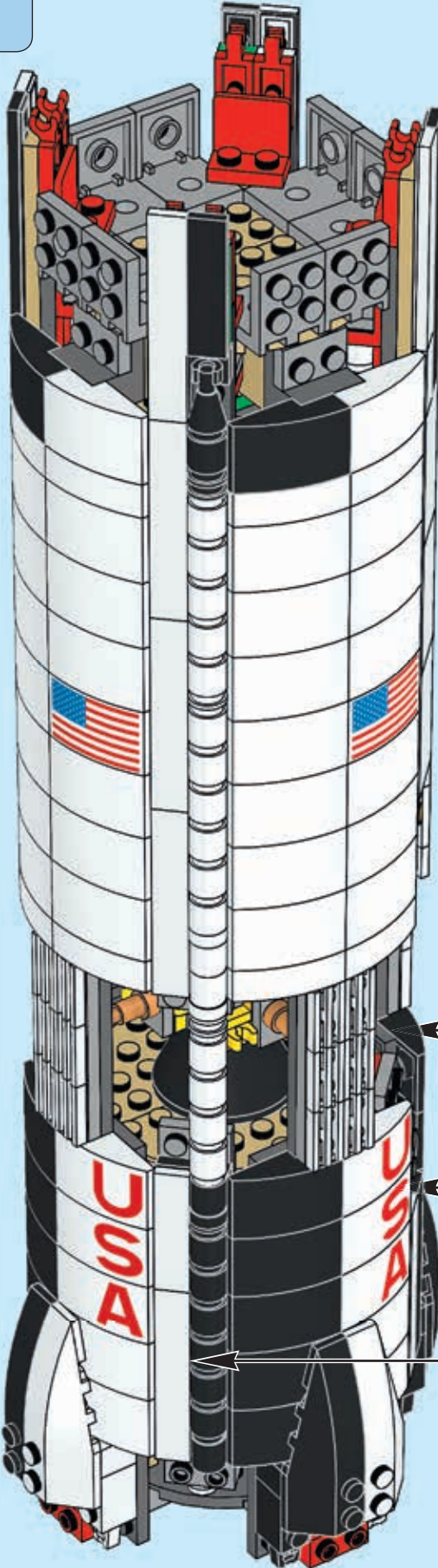


2x





96





4x



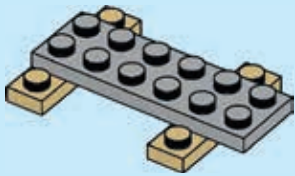
1x

97



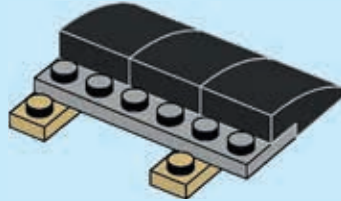
2x

98



3x

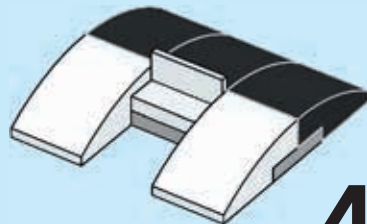
99



2x

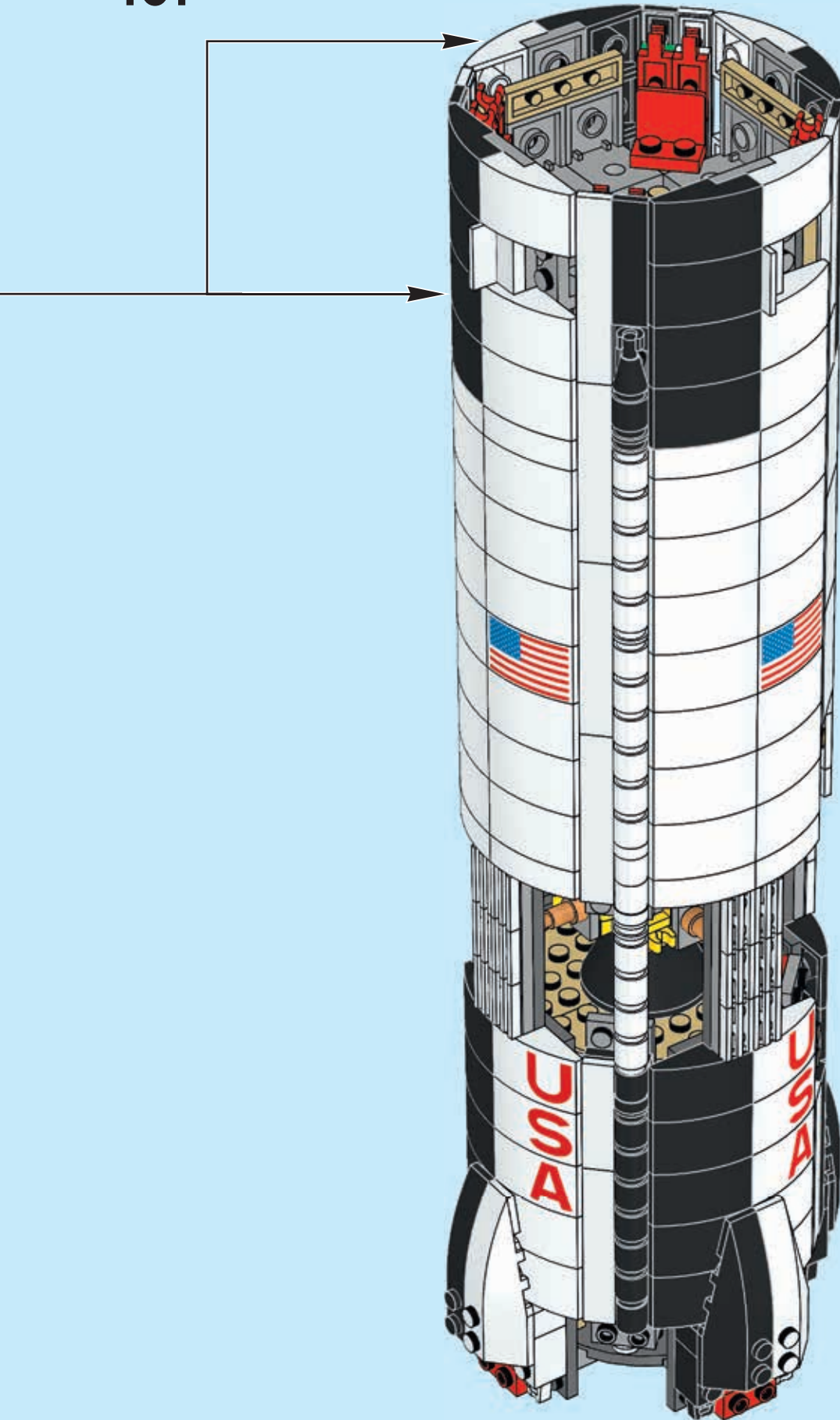
1x

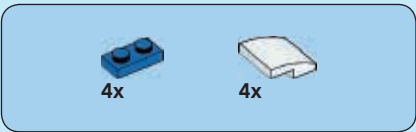
100



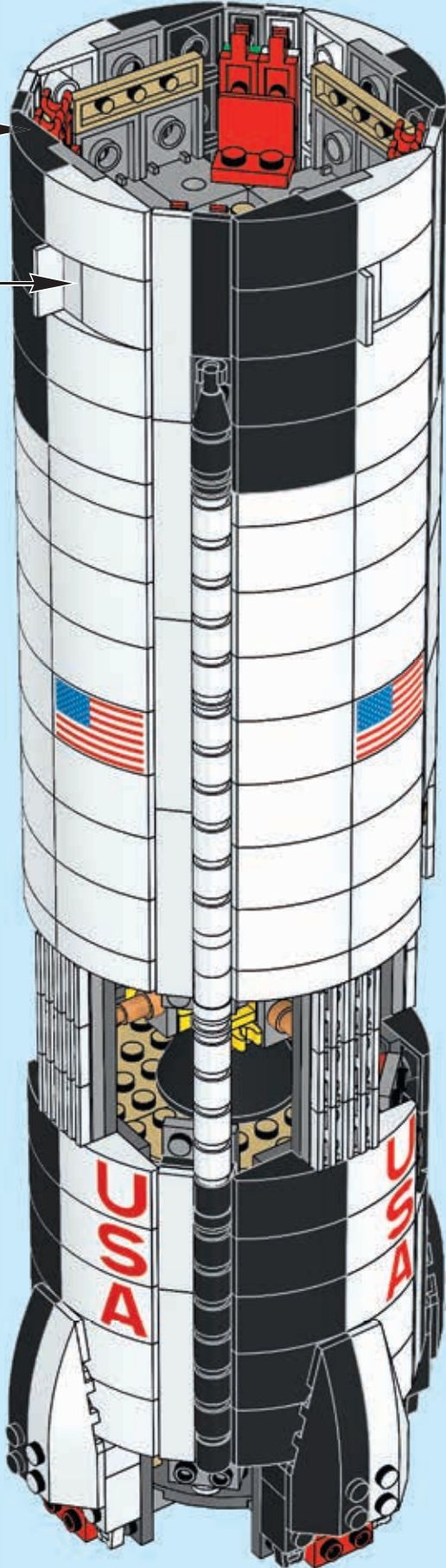
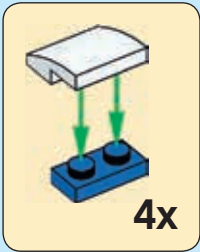
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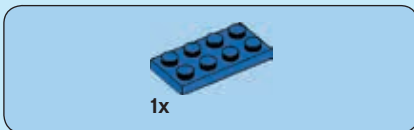
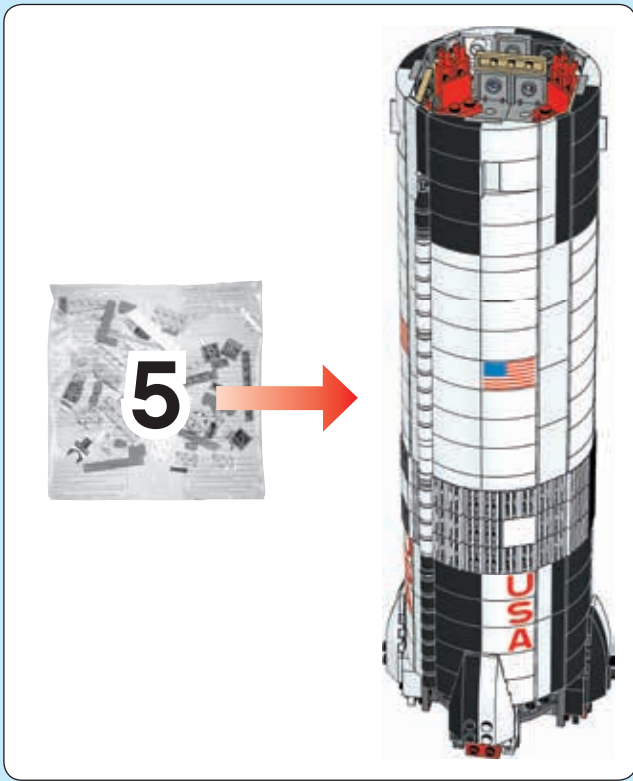
101



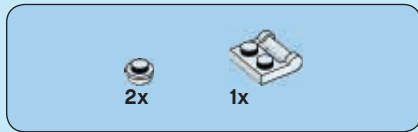


102





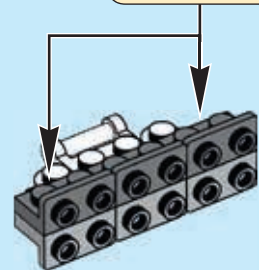
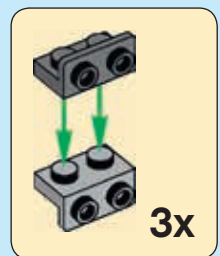
103



104



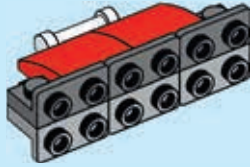
105





2x

106

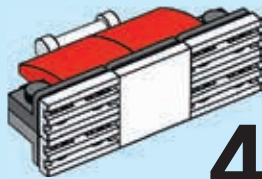


4x



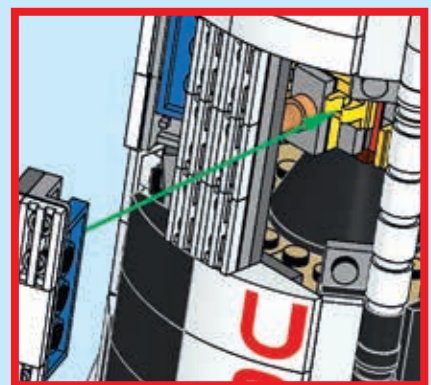
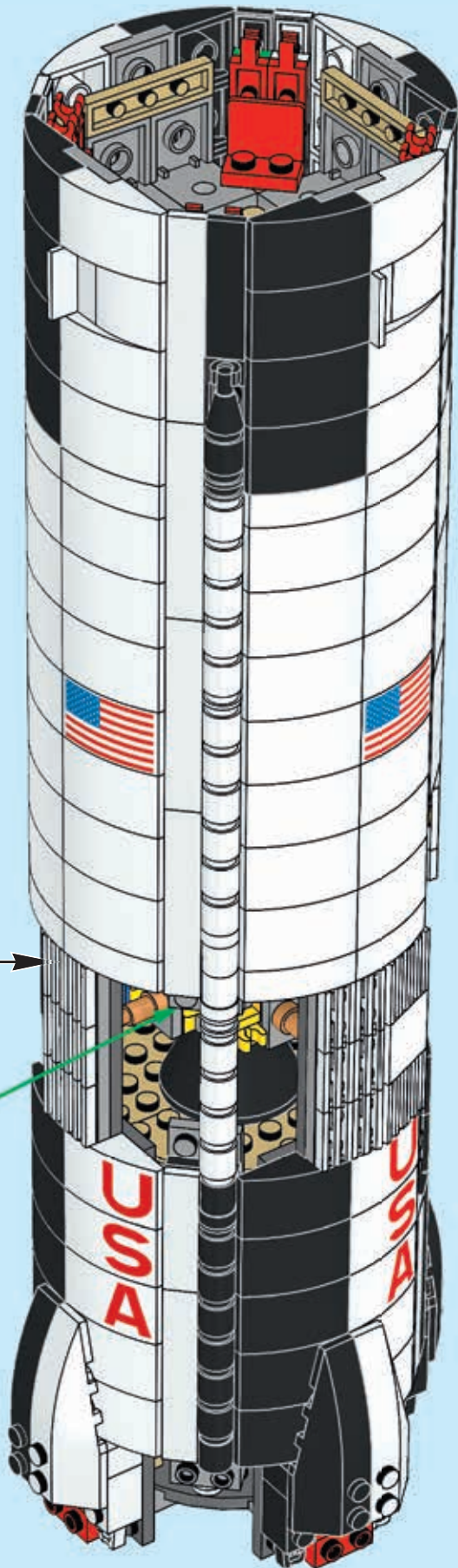
1x

107



4x

108

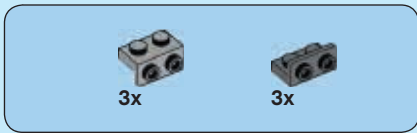




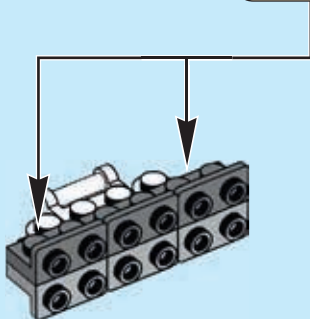
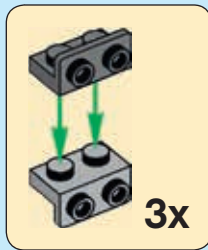
109



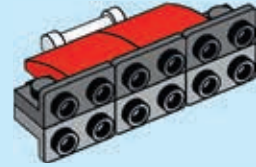
110



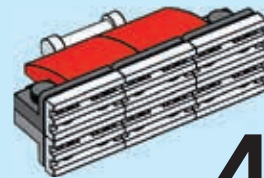
111



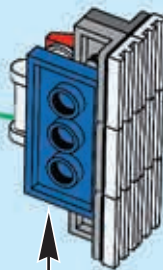
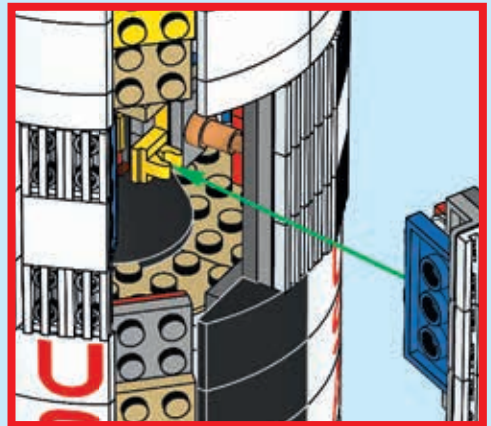
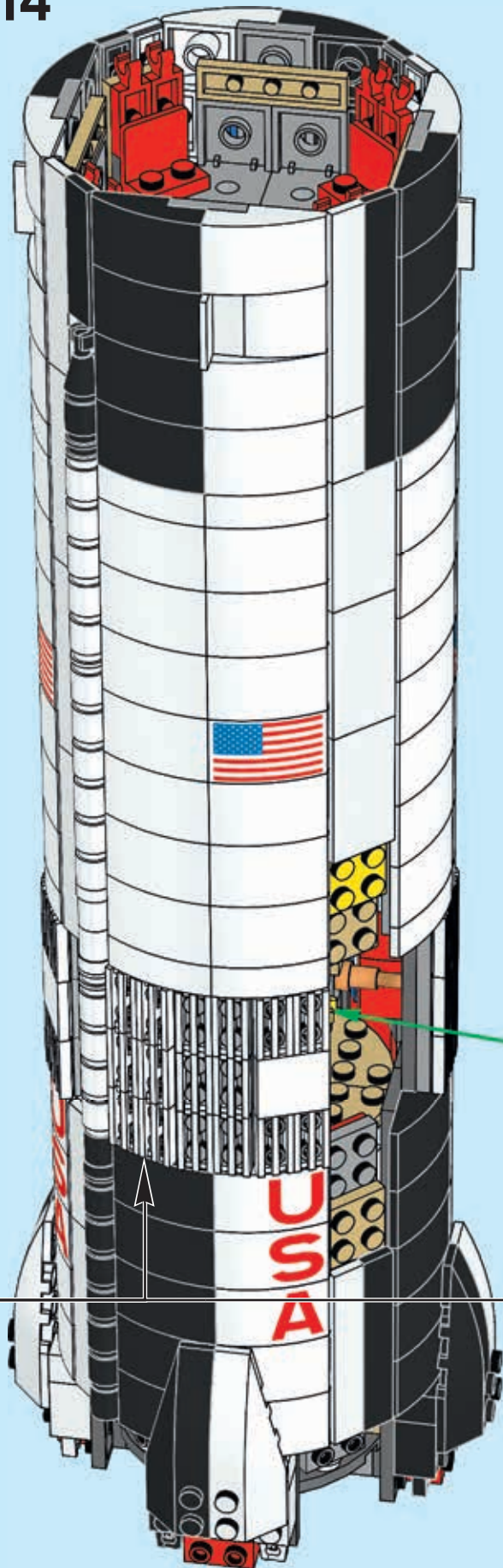
112

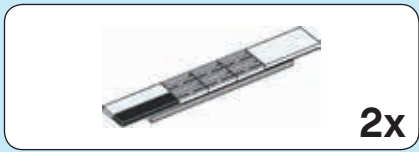


113

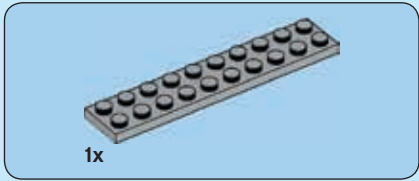


4x



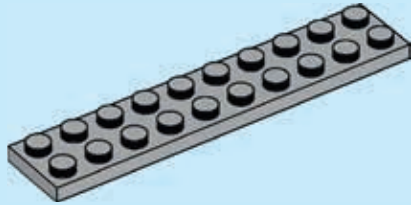


2x



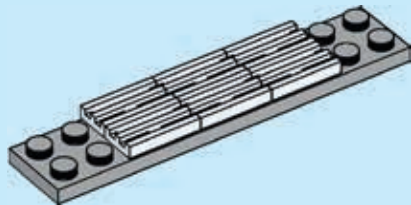
1x

115



6x

116

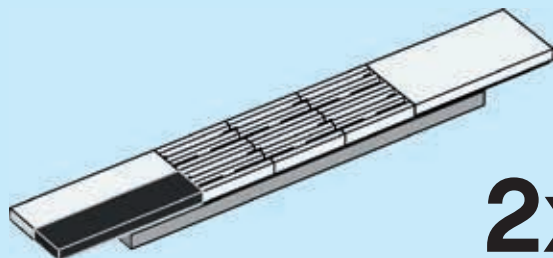


1x

1x

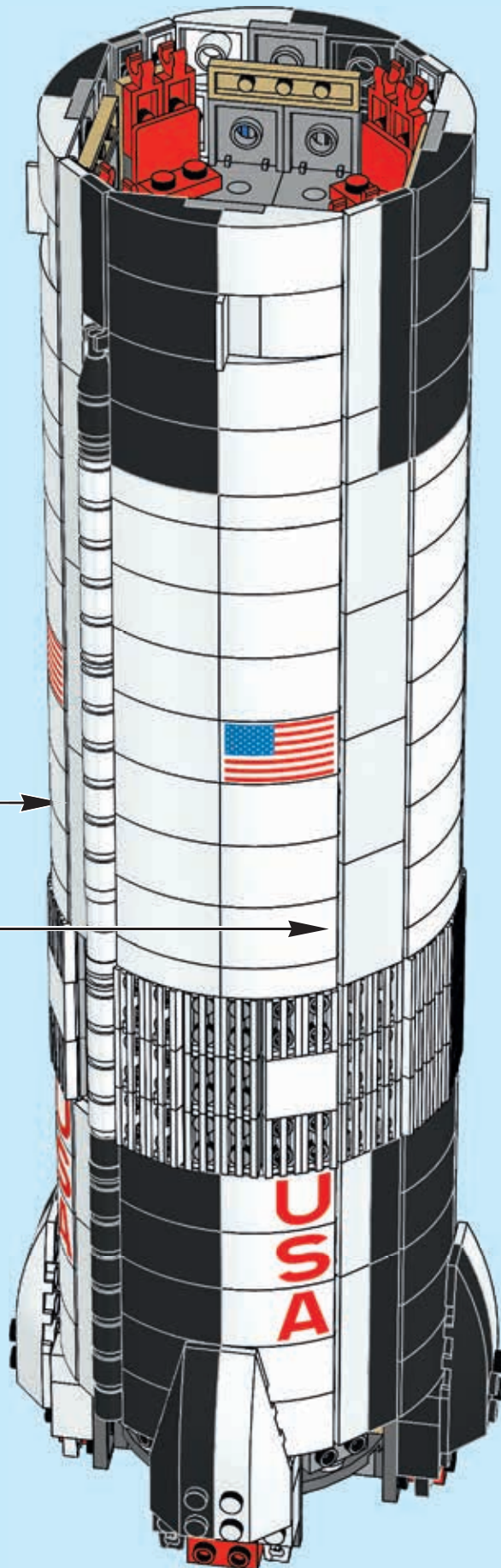
1x

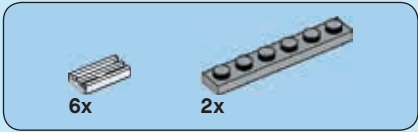
117



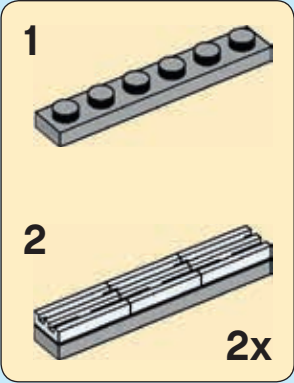
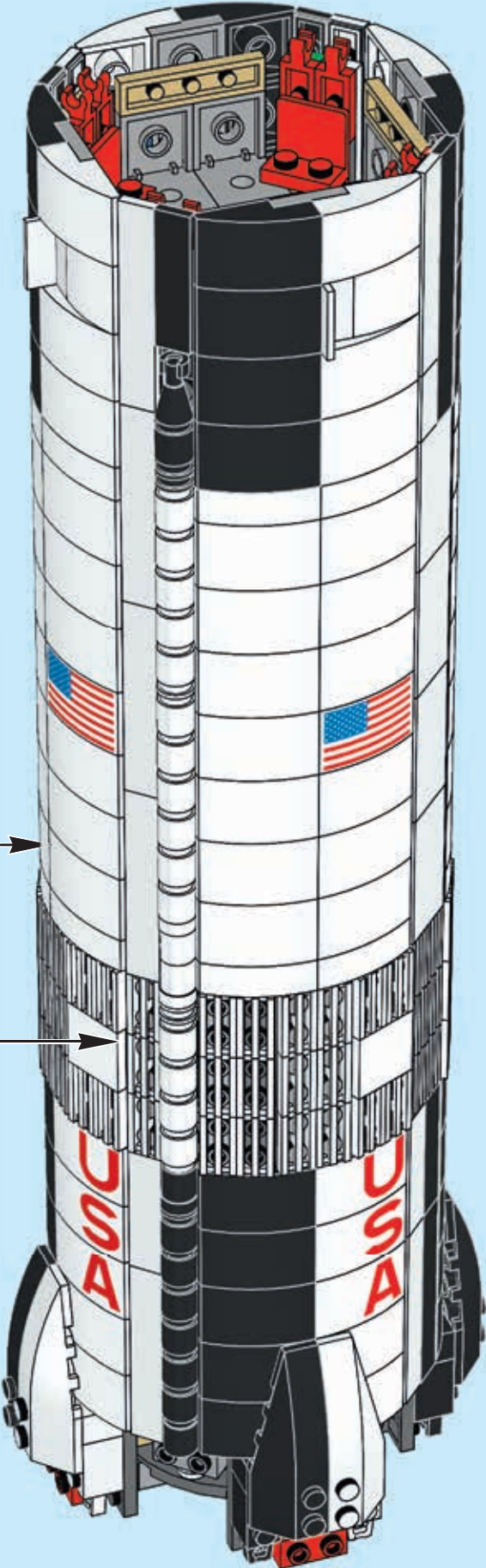
2x

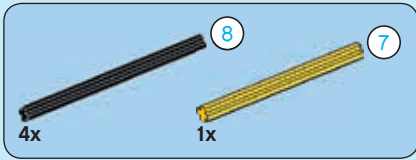
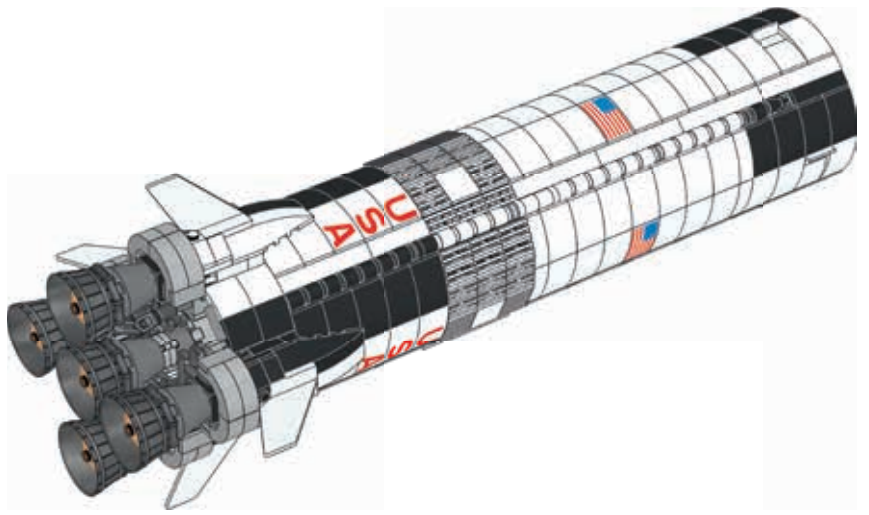
118



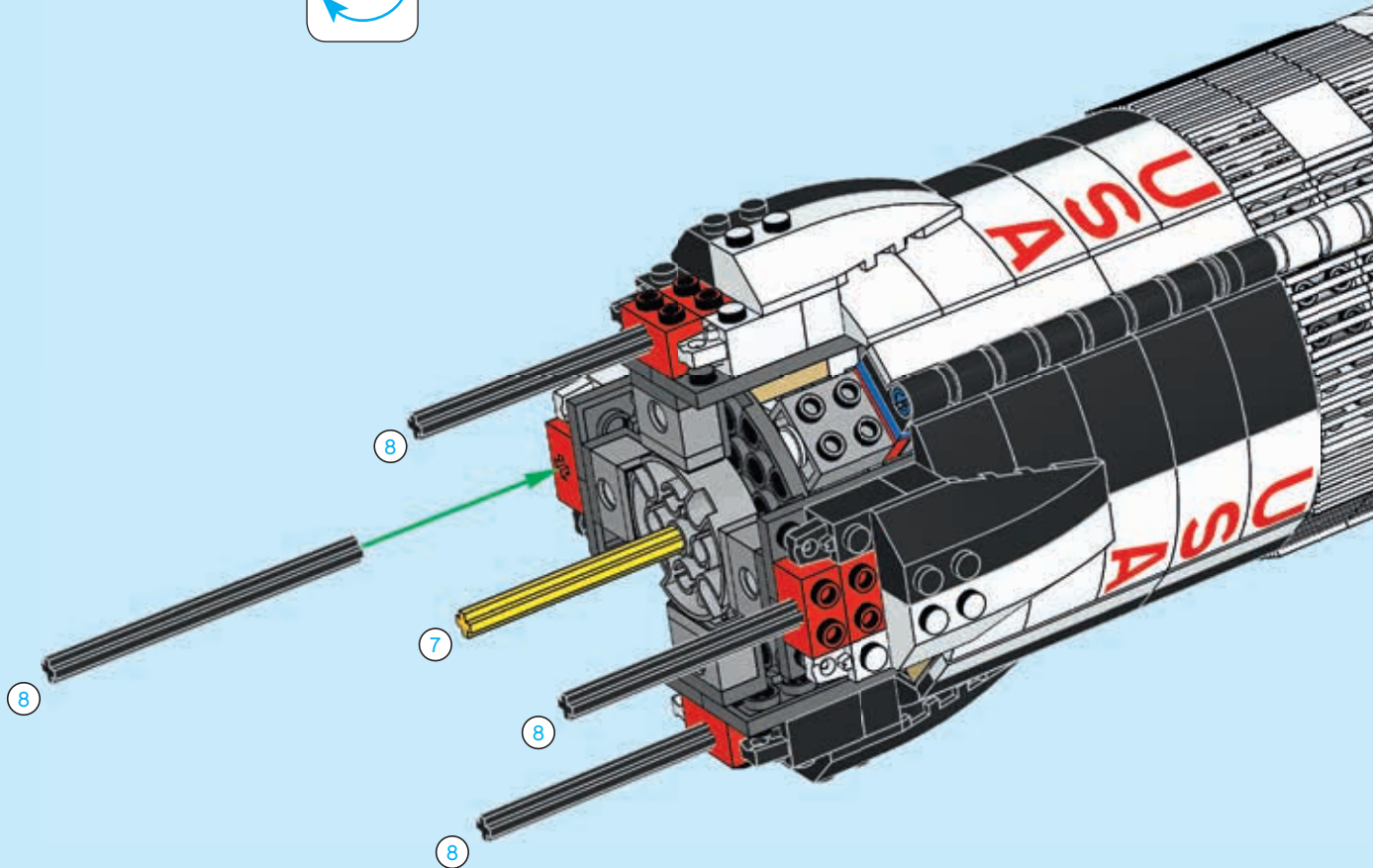


119



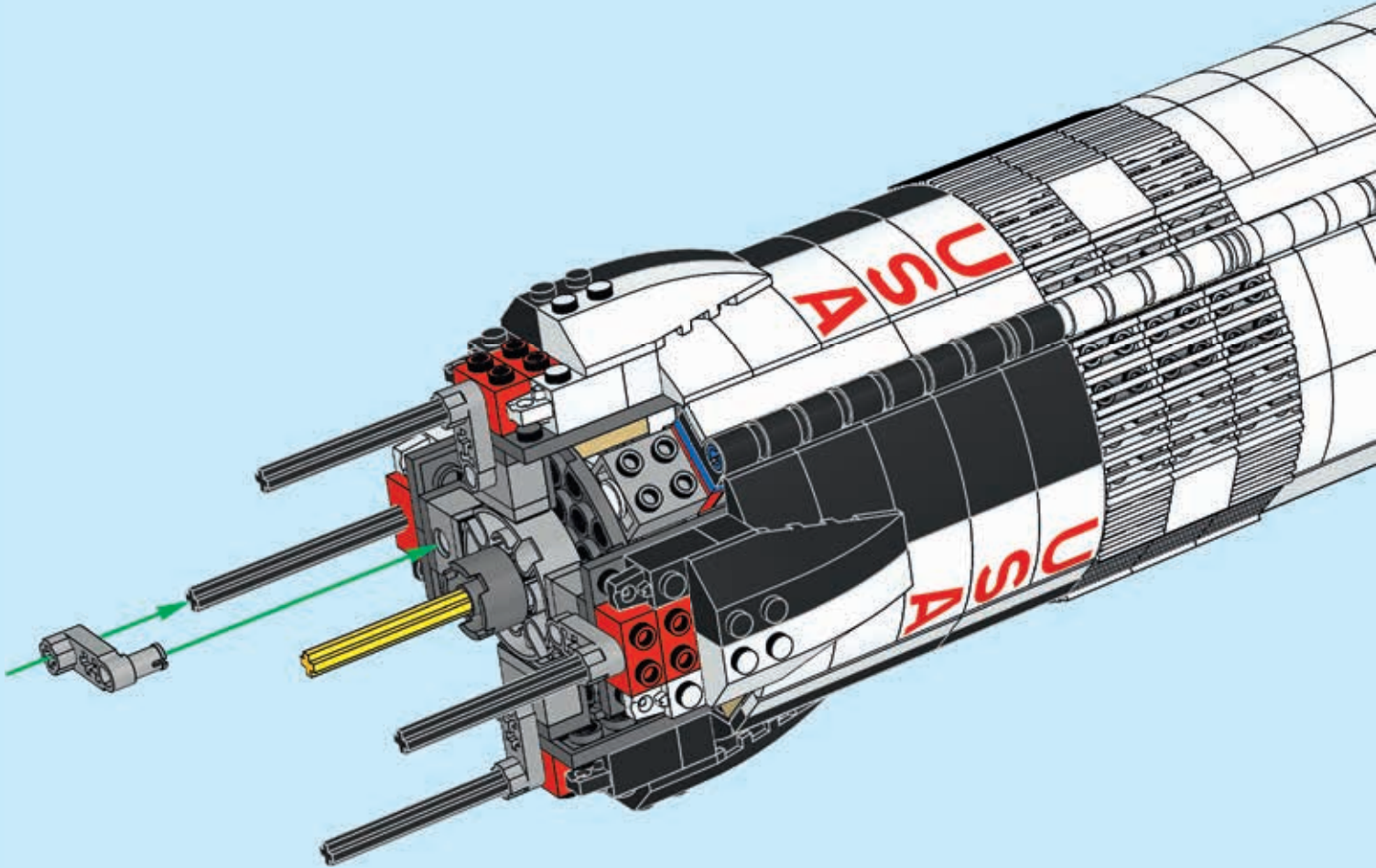


120



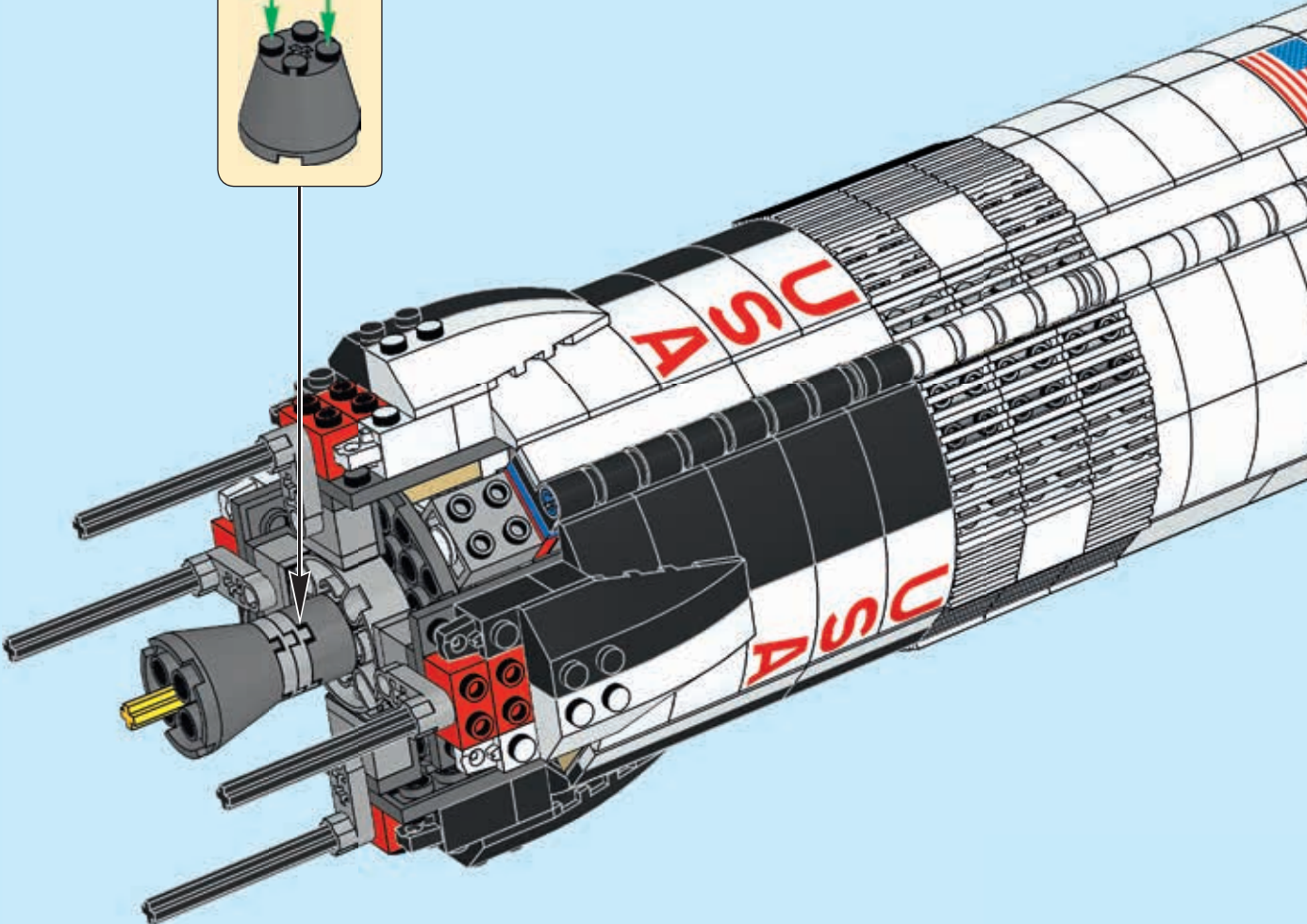
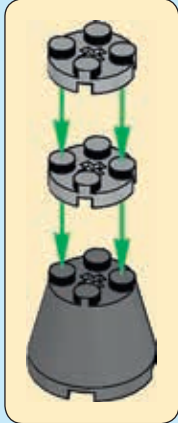


121



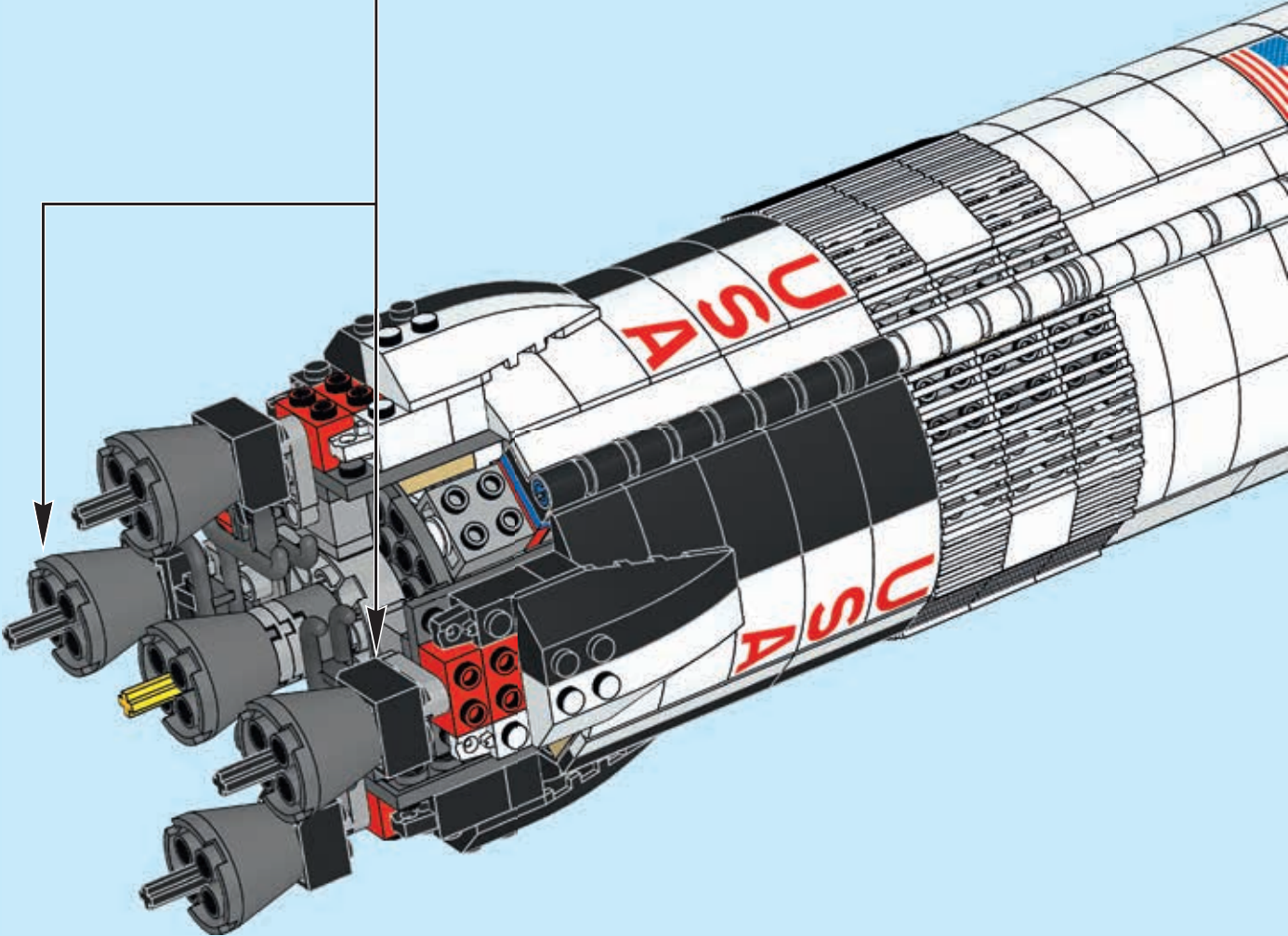
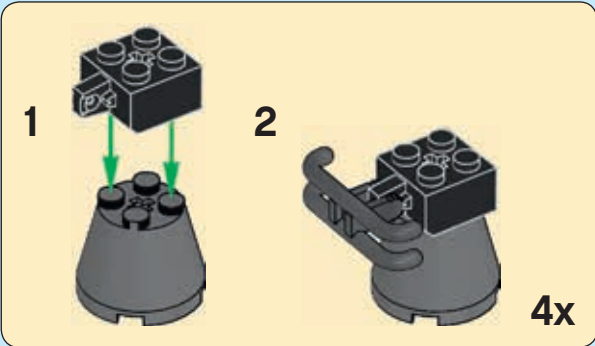


122





123





124

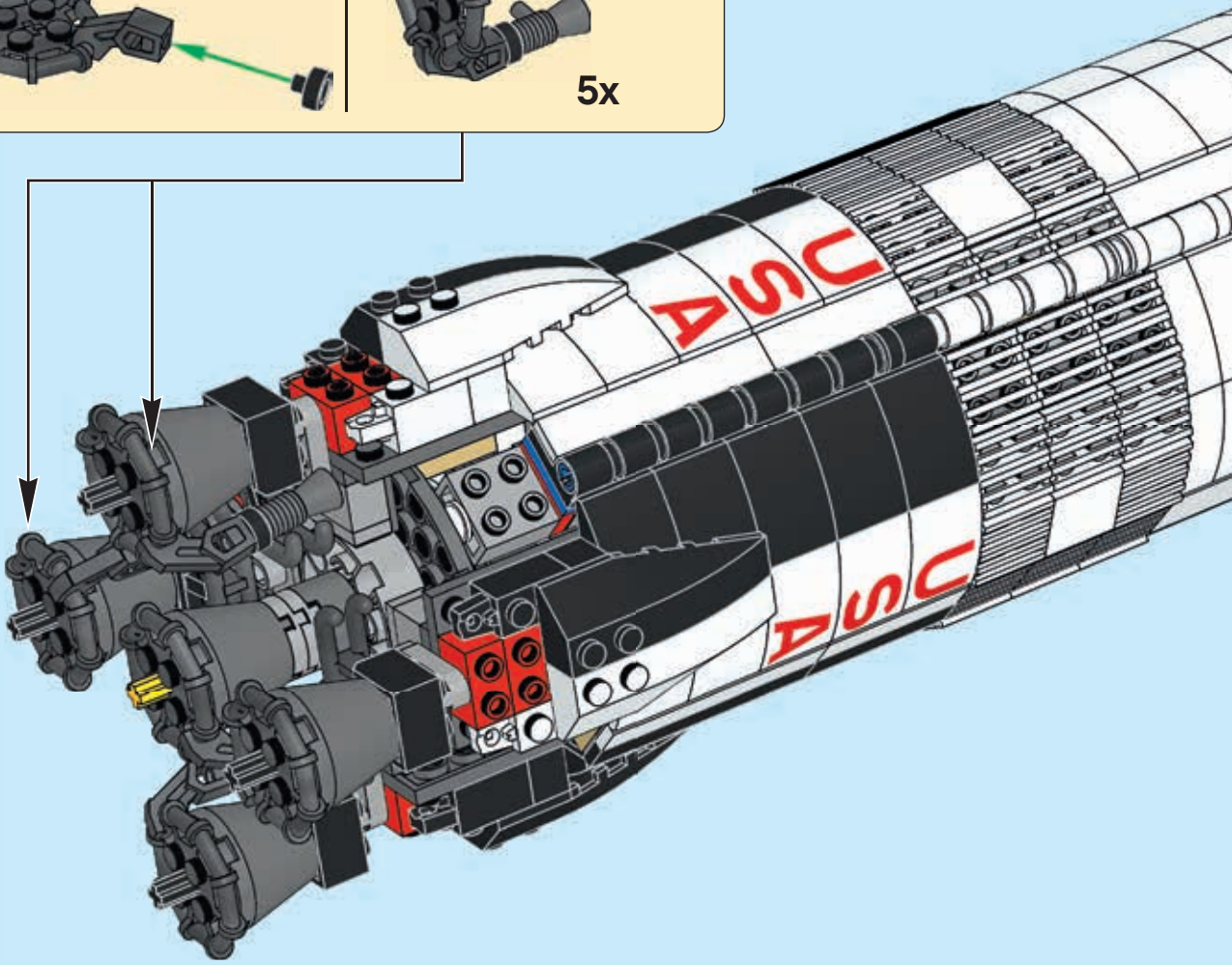
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2

3

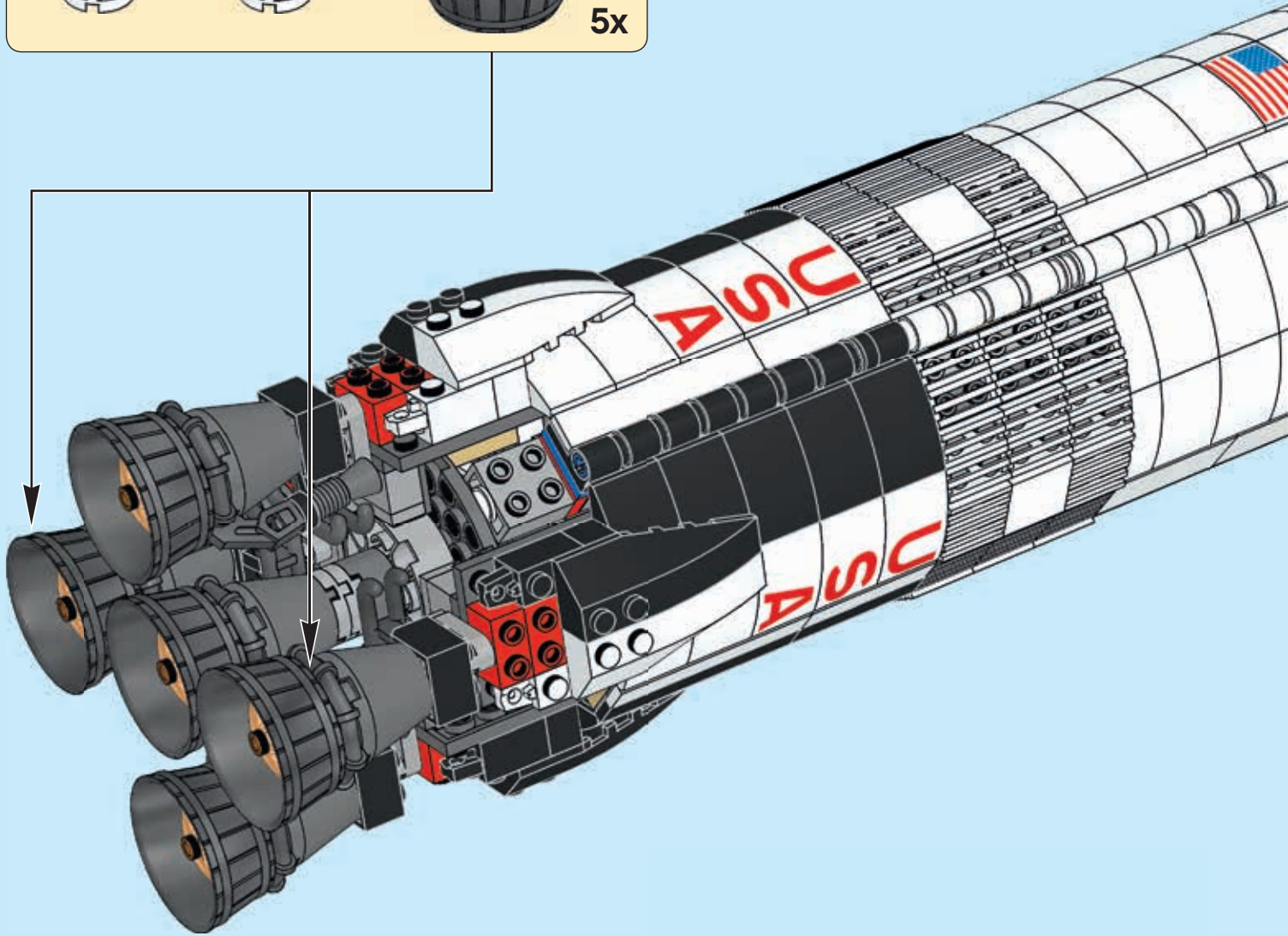
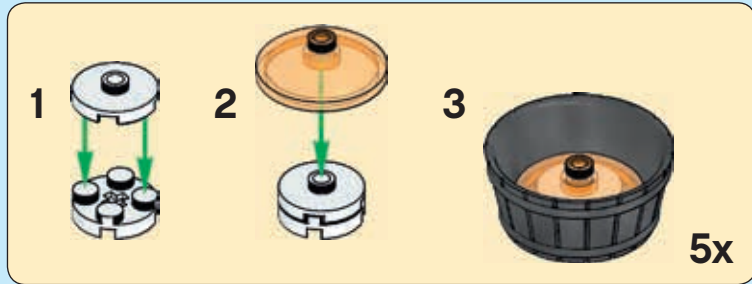
4

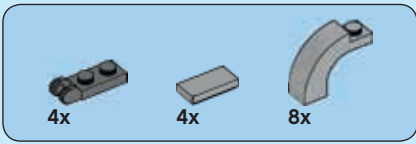
5x



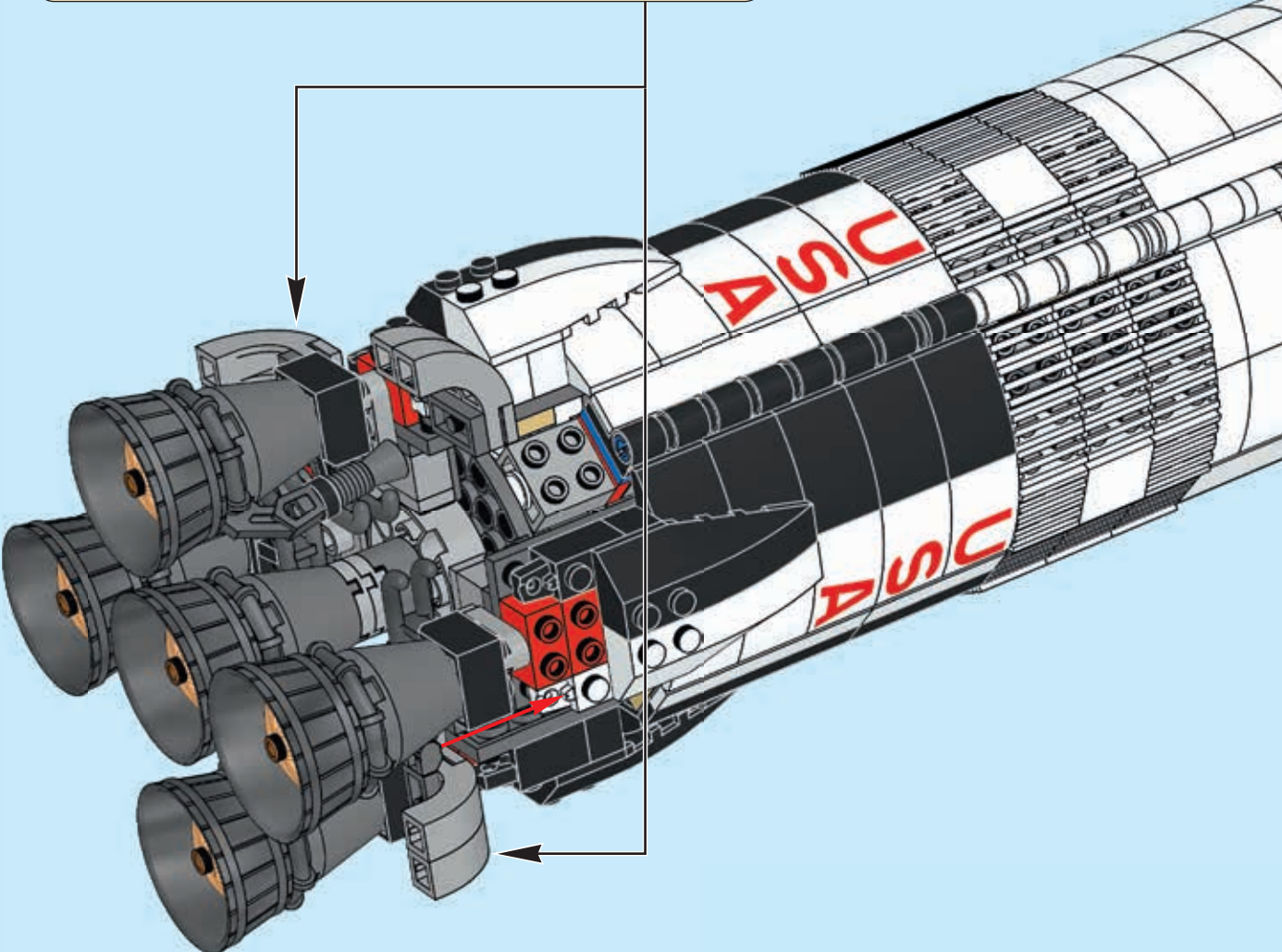
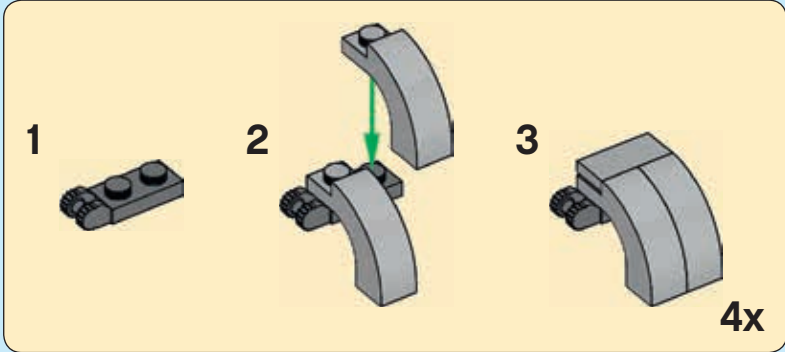


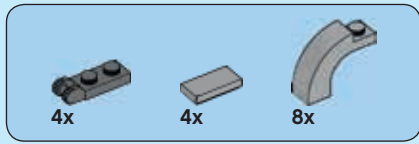
125



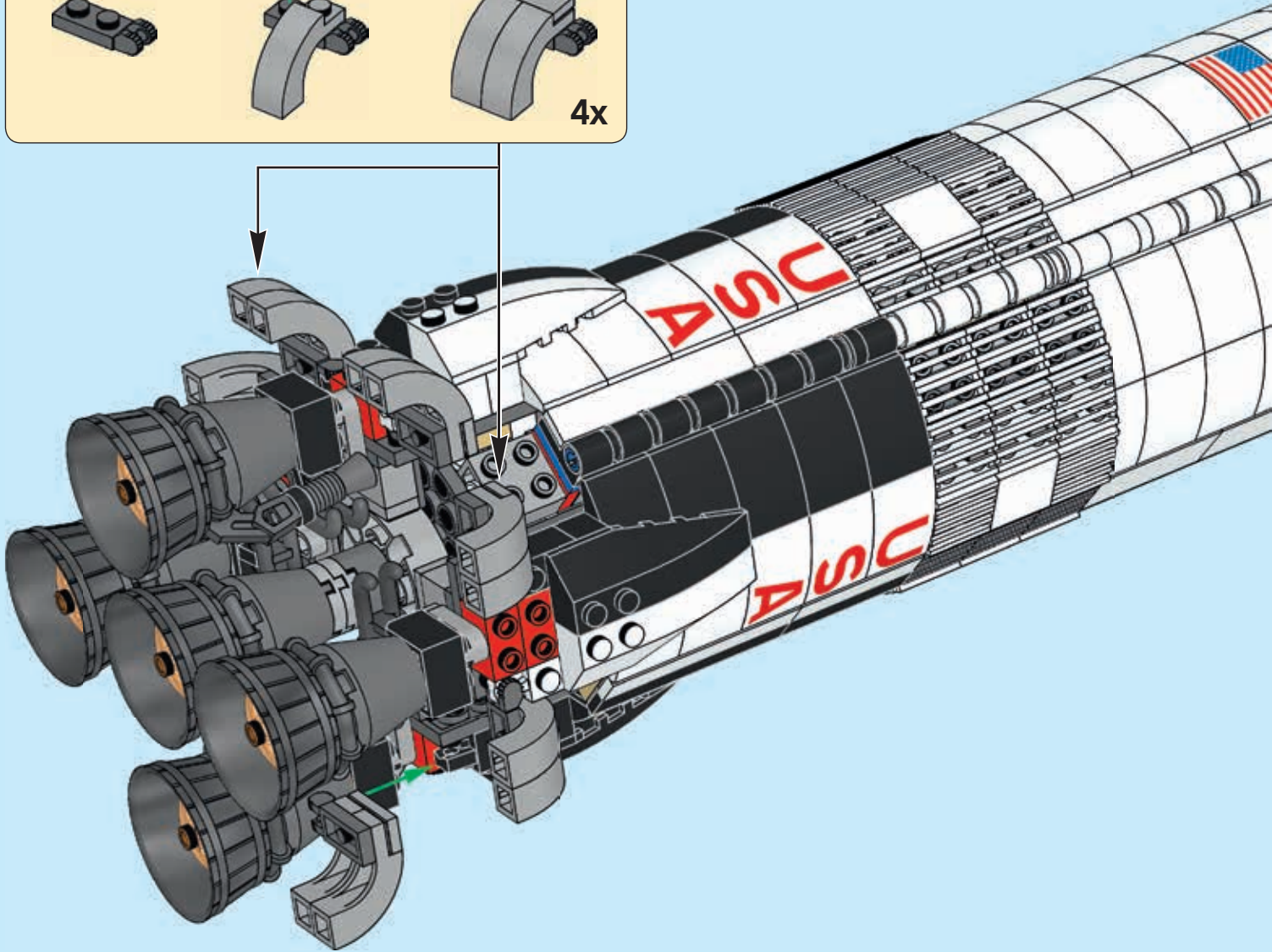
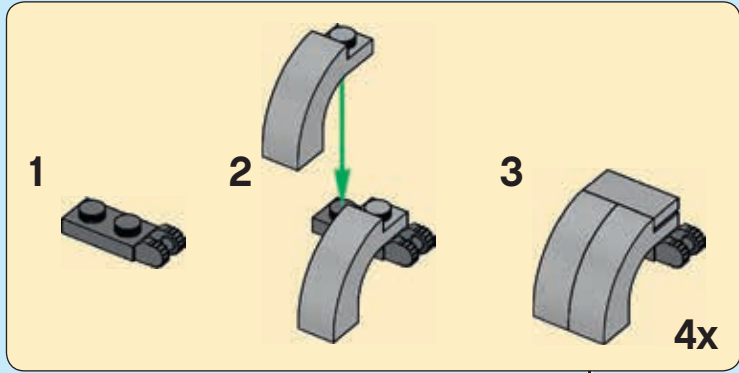


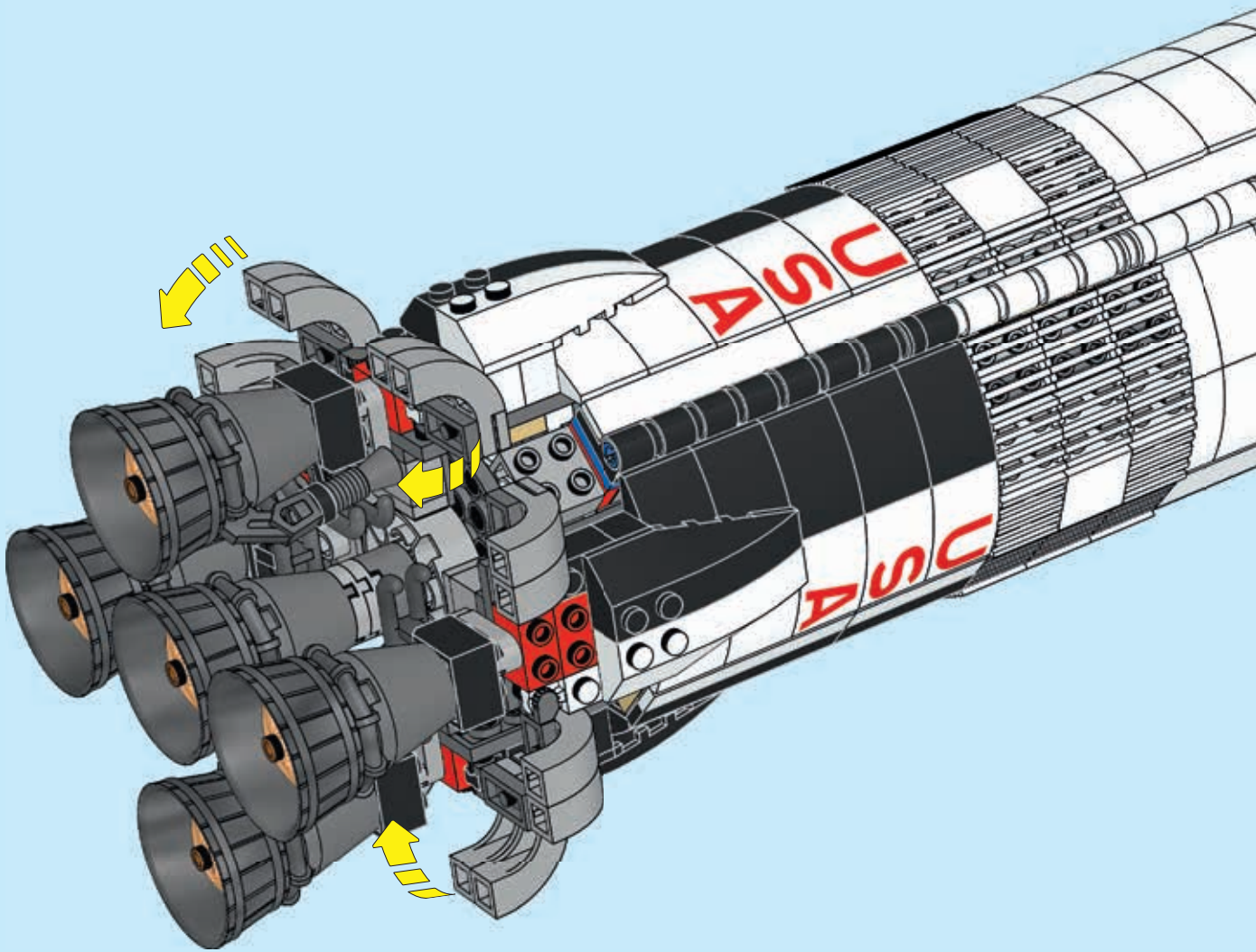
126





127







129



130



131

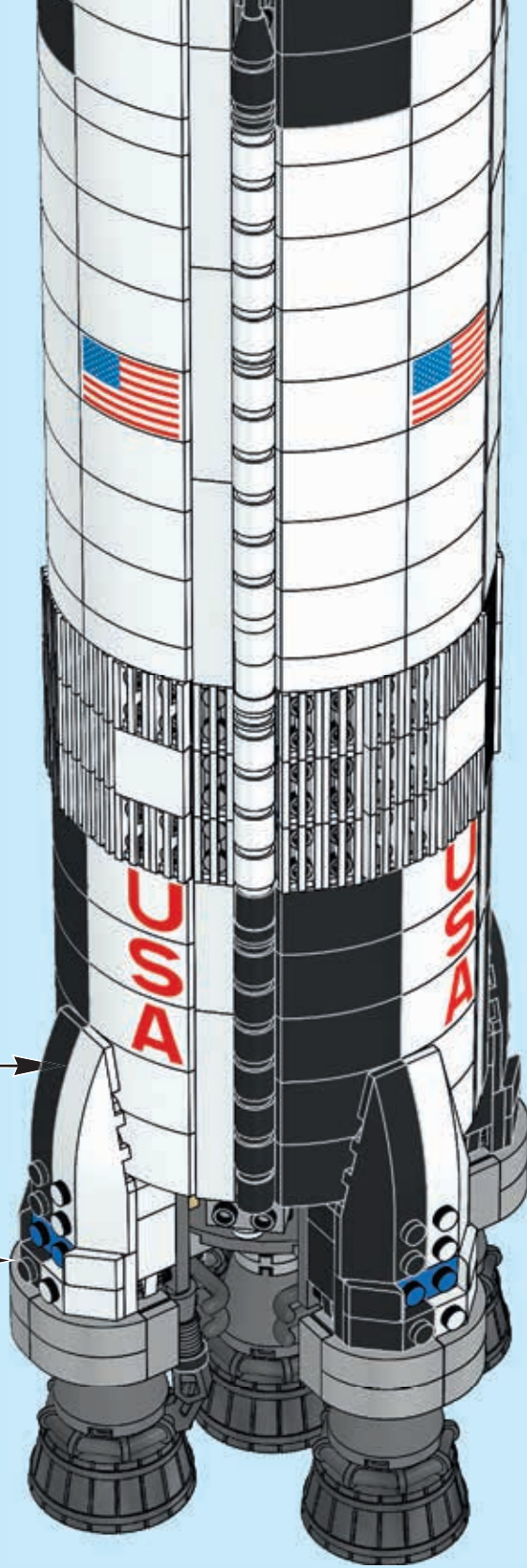


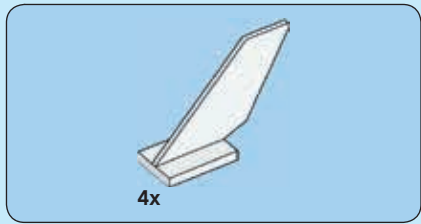
132



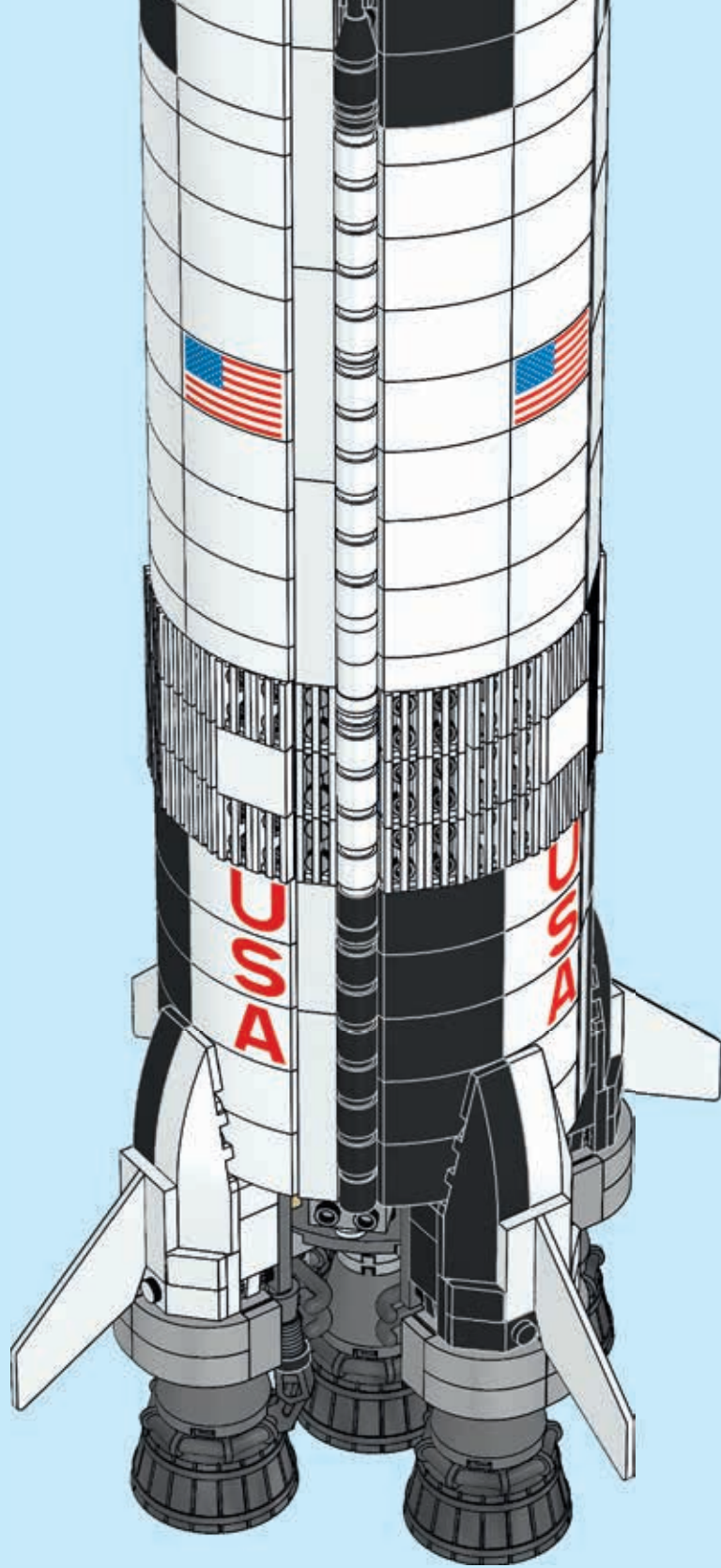
4x

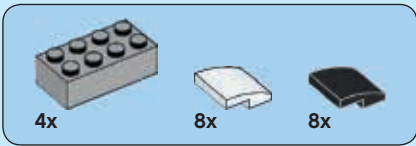
133



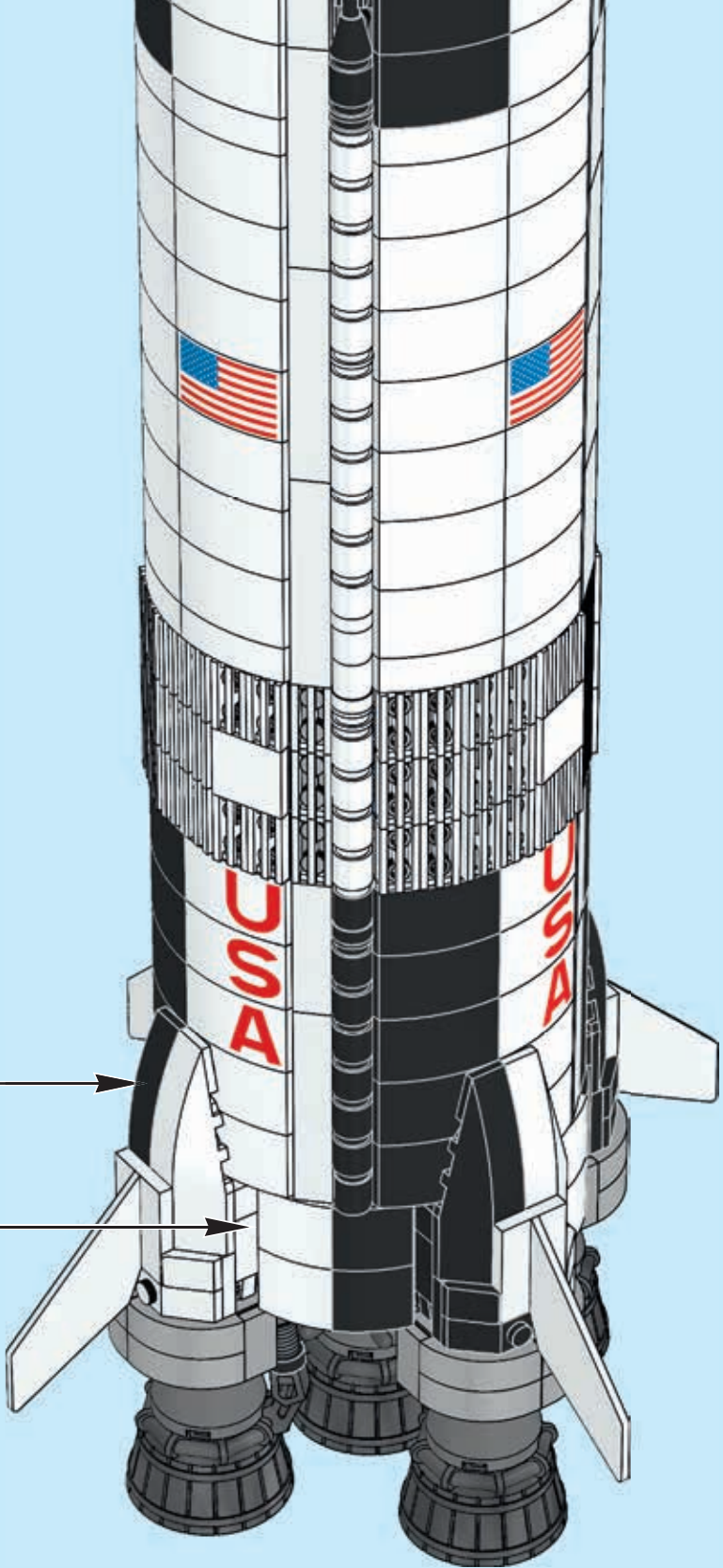
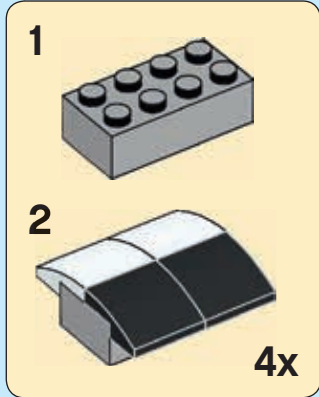


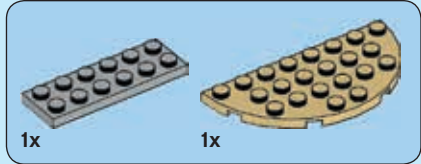
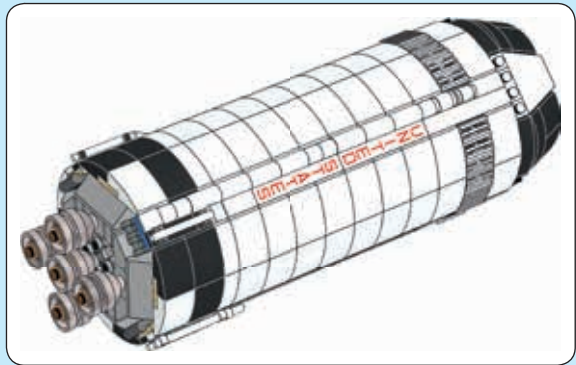
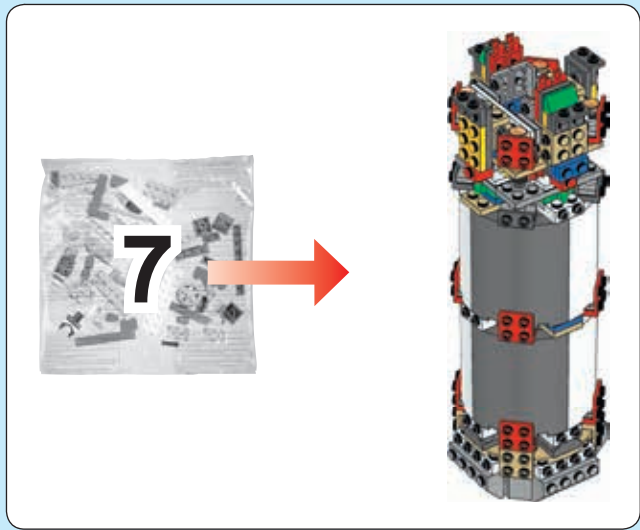
134



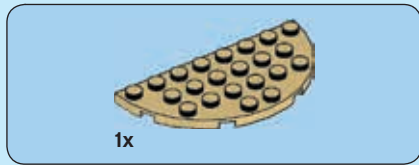
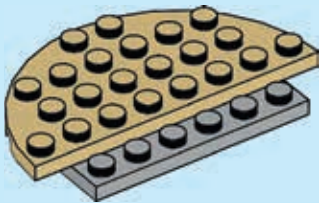


135

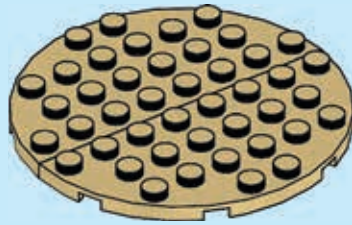




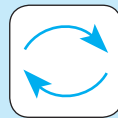
136



137



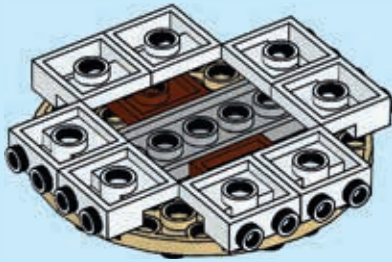
138





8x

139

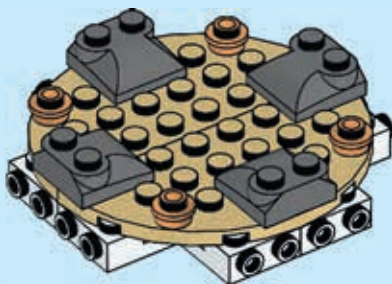
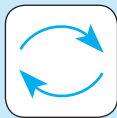


4x



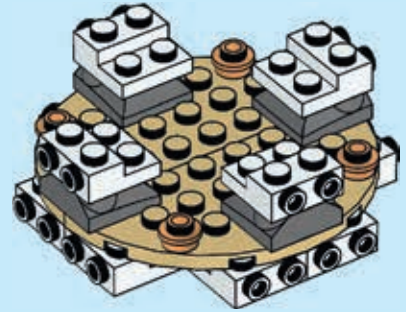
4x

140



4x

141



4x

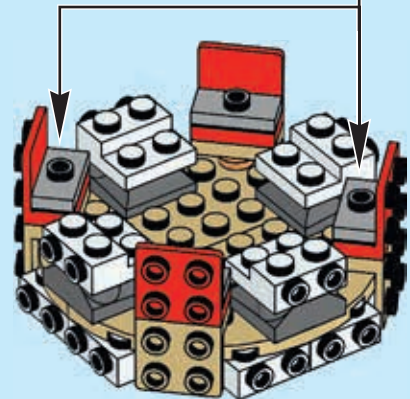
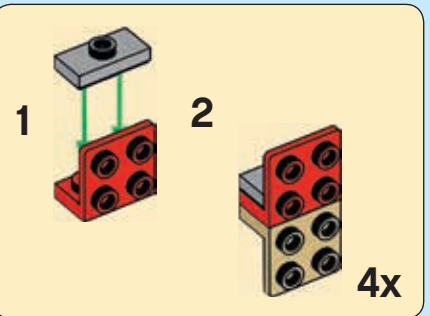


4x



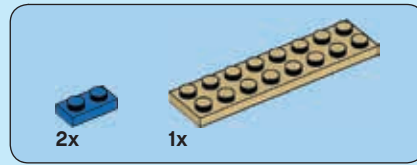
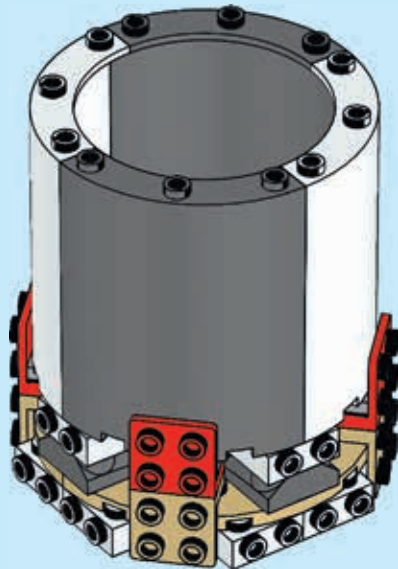
4x

142

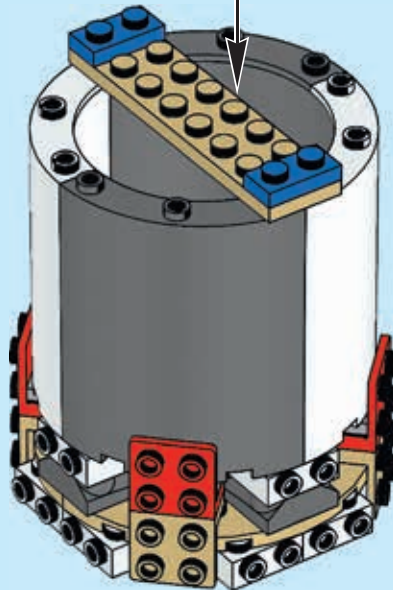
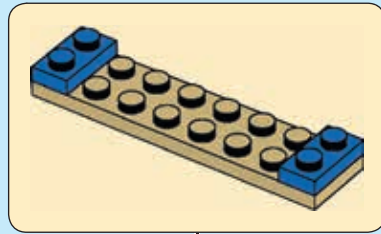




143

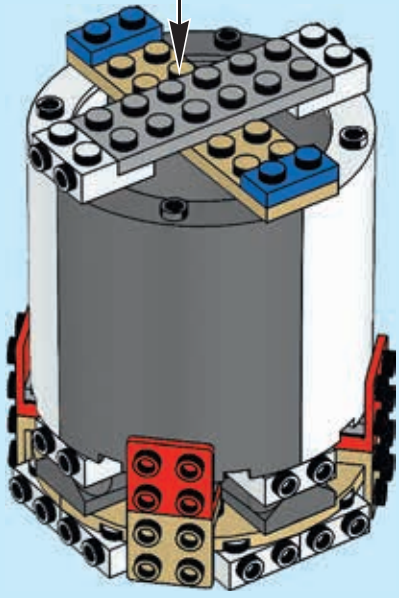
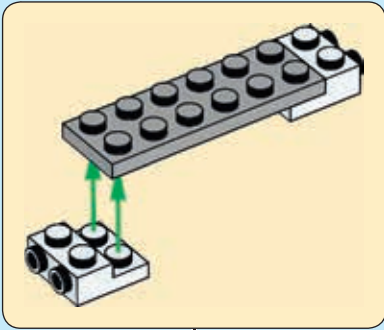


144

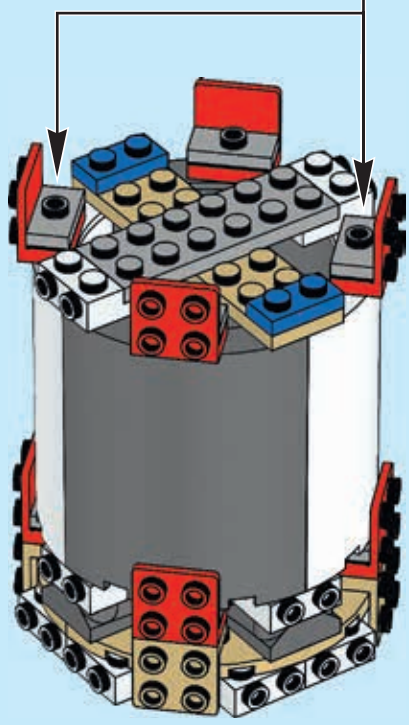
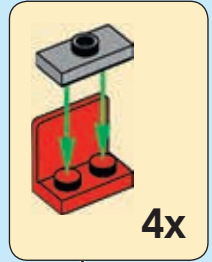




145

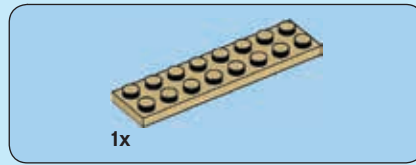
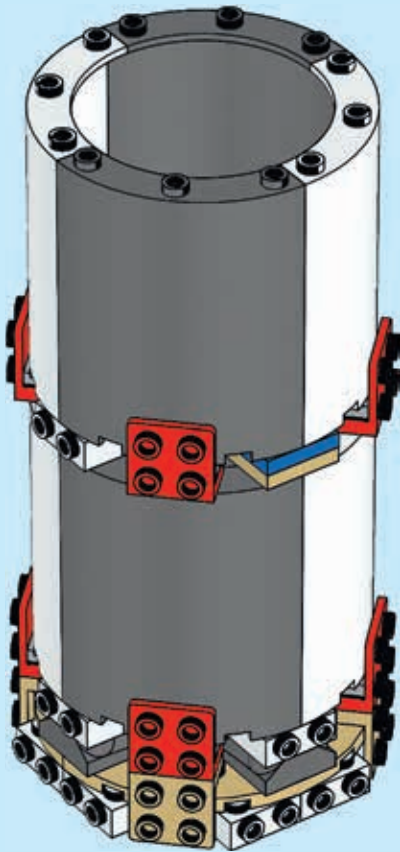


146

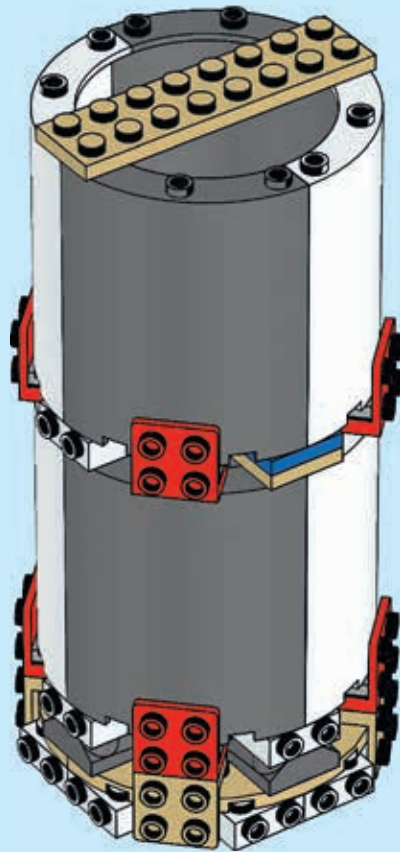


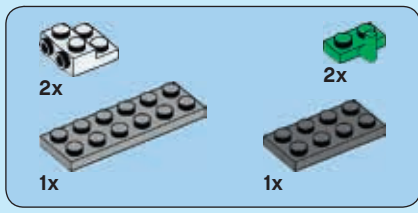


147

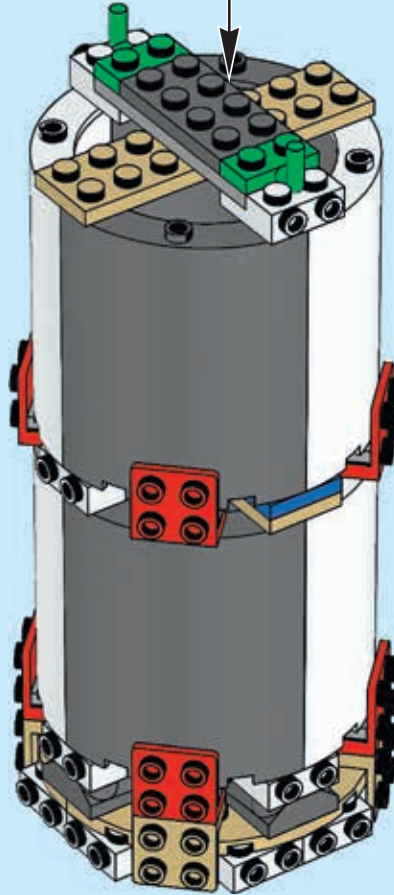
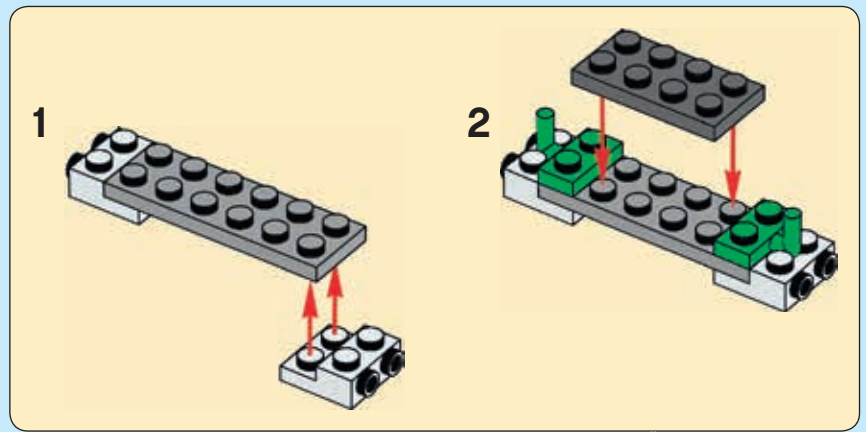


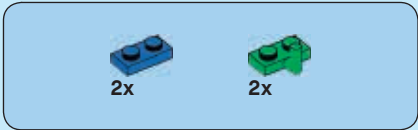
148



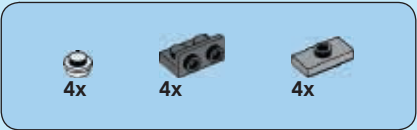
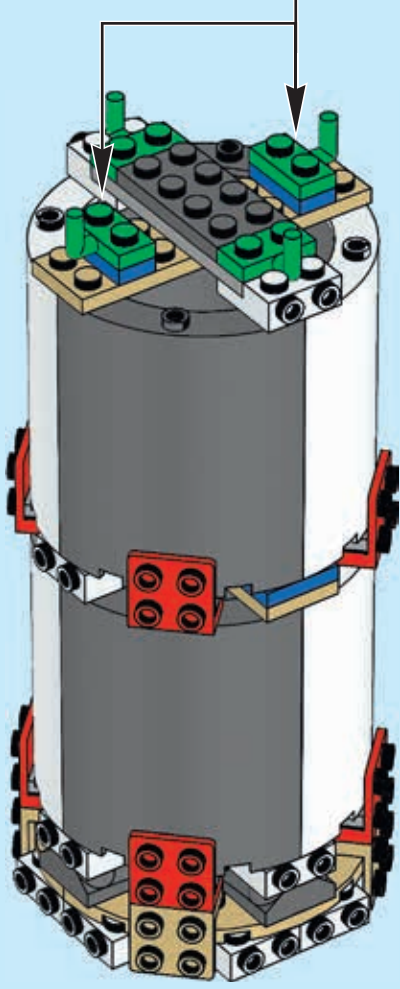
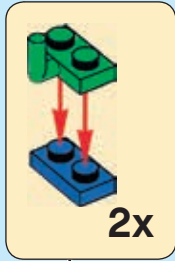


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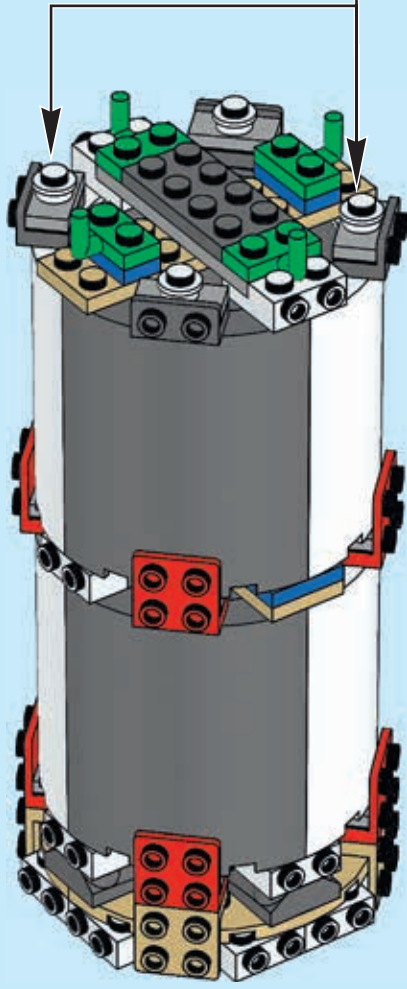
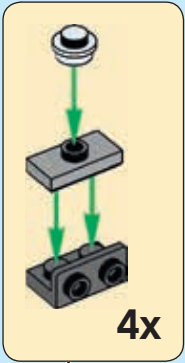




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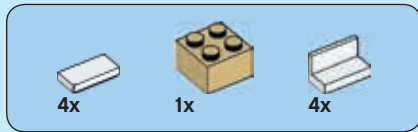
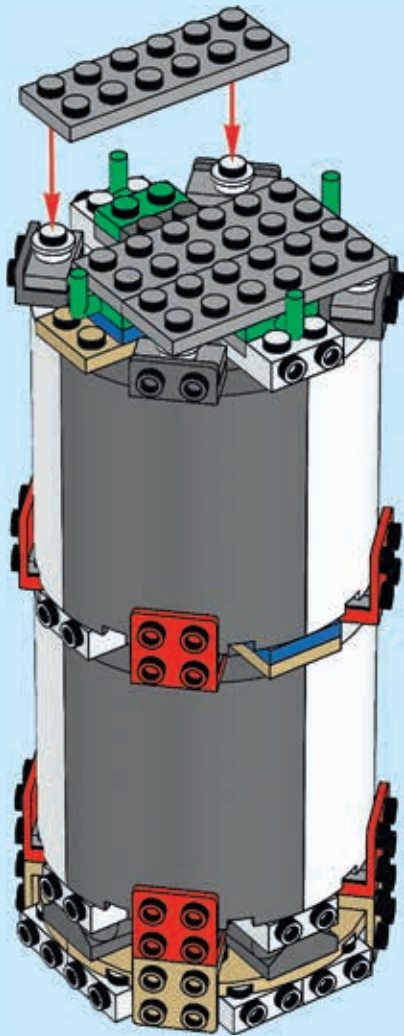


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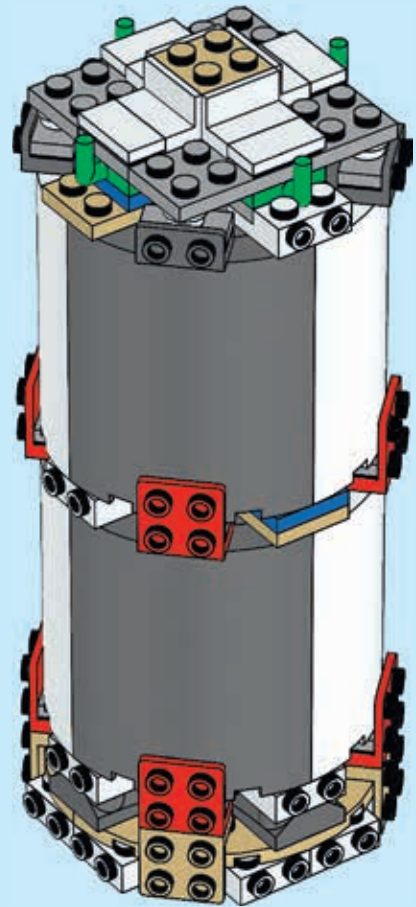




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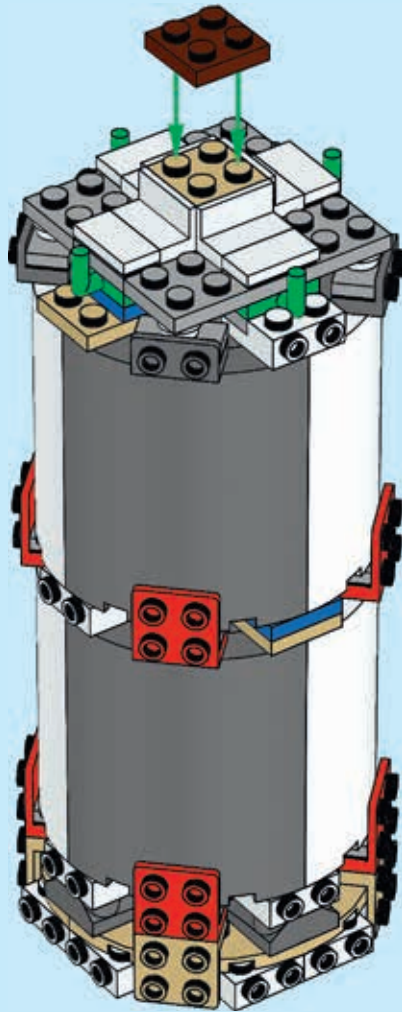
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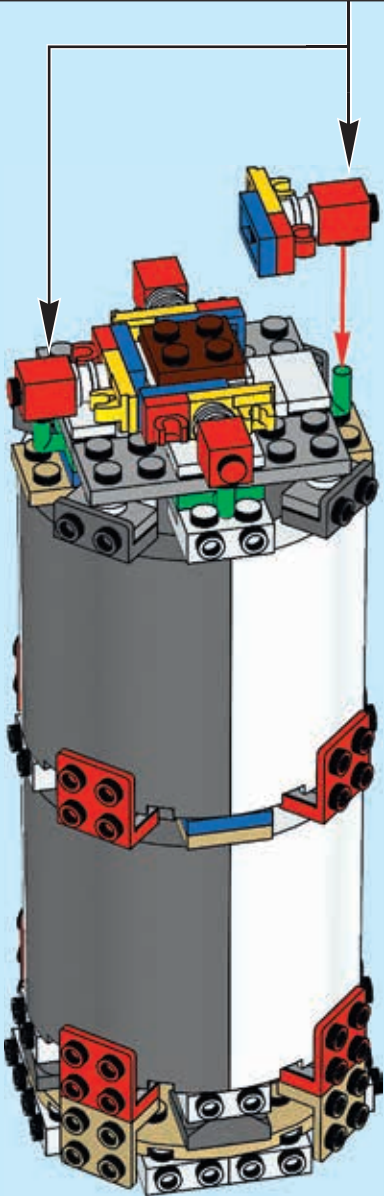
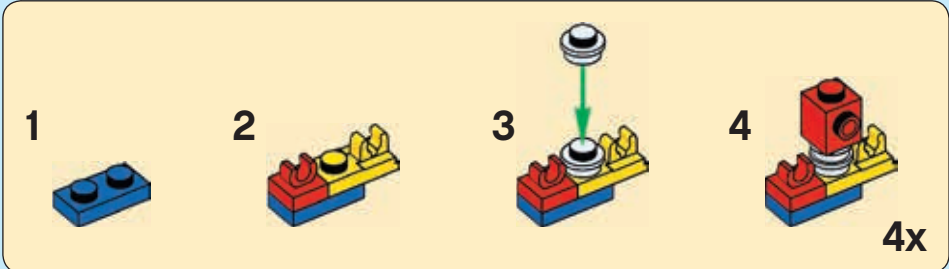
1x

154





155



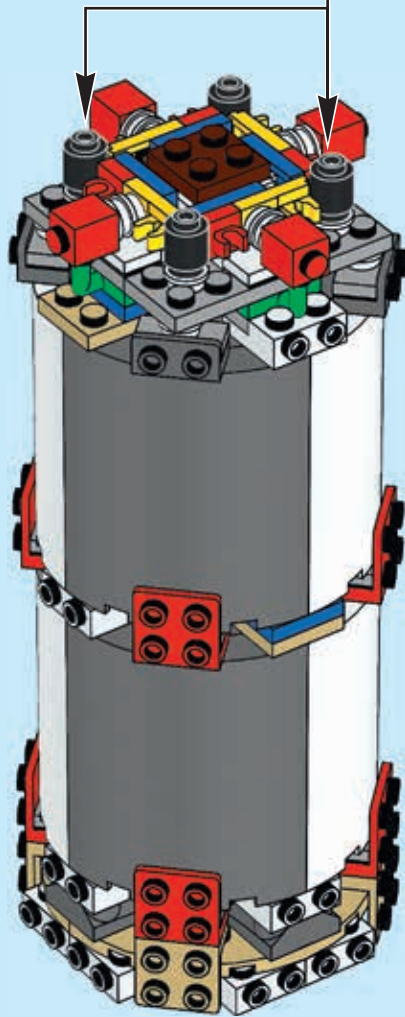


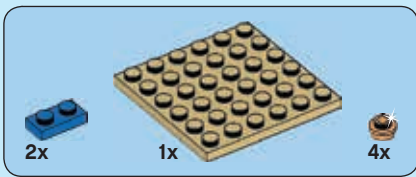
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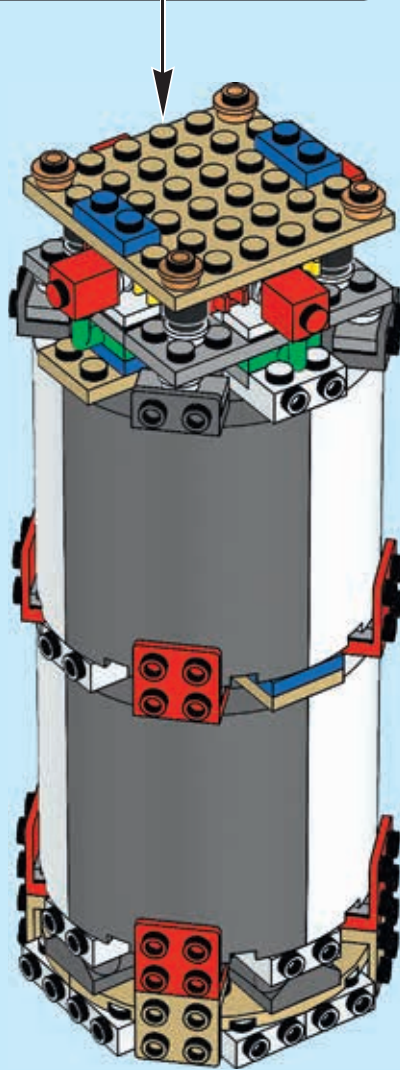
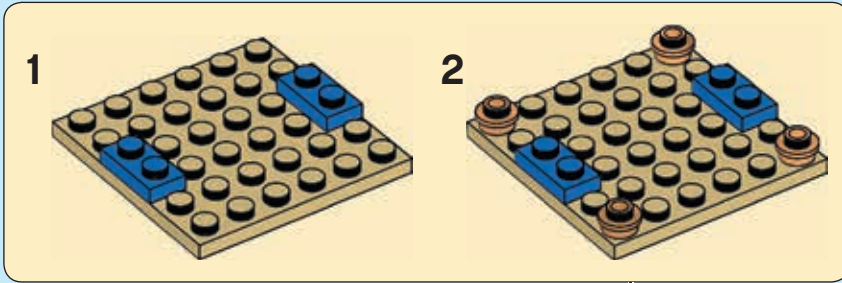
4x

156





157





2x



1x

158



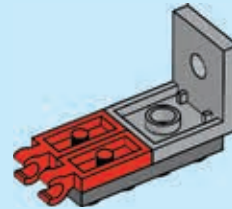
2x

159



1x

160

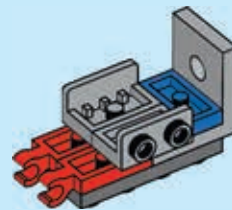


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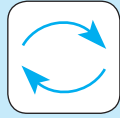
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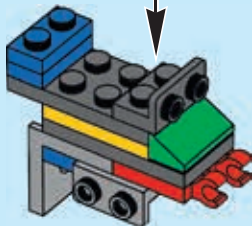
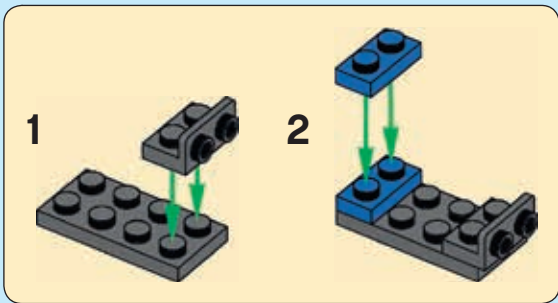




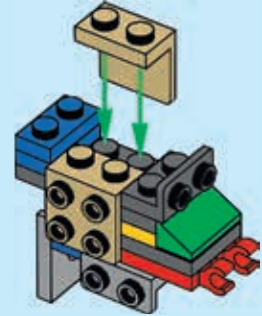
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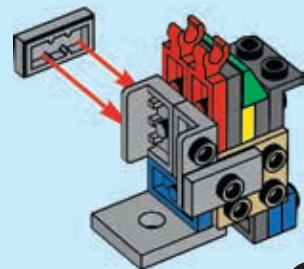
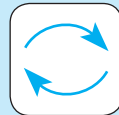
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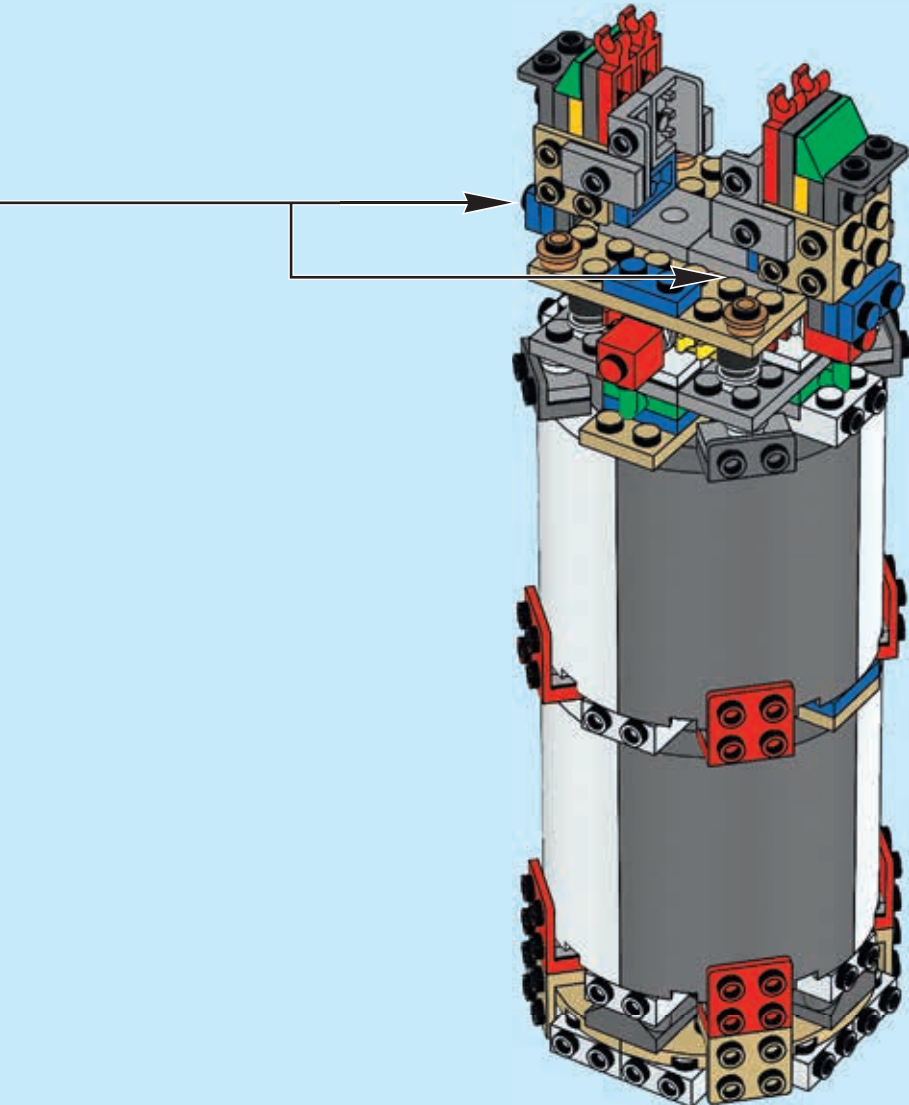
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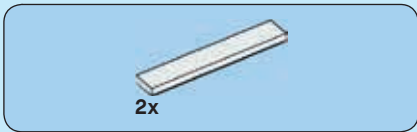


165

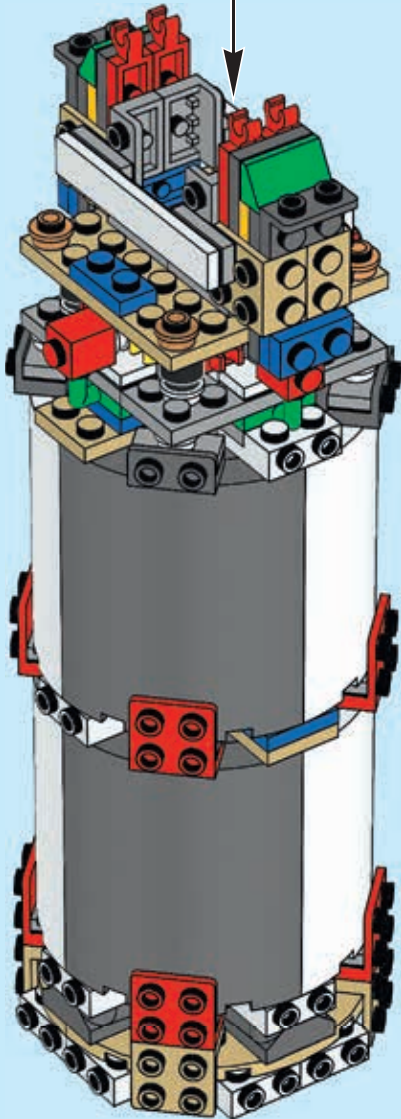
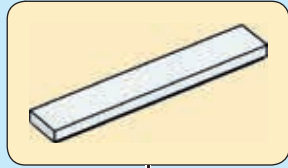


2x

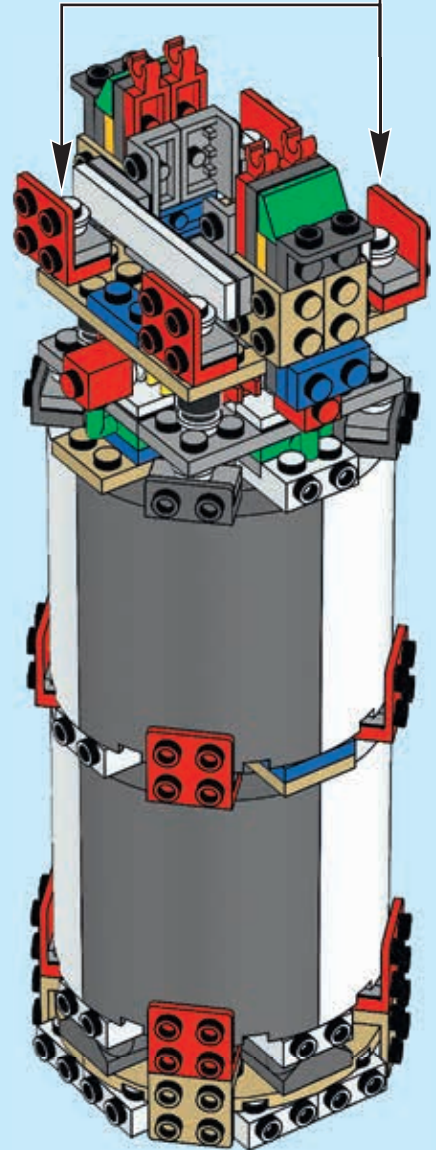
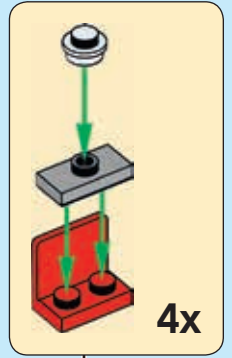




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168





169

1



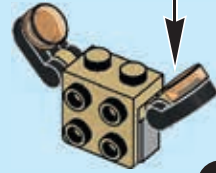
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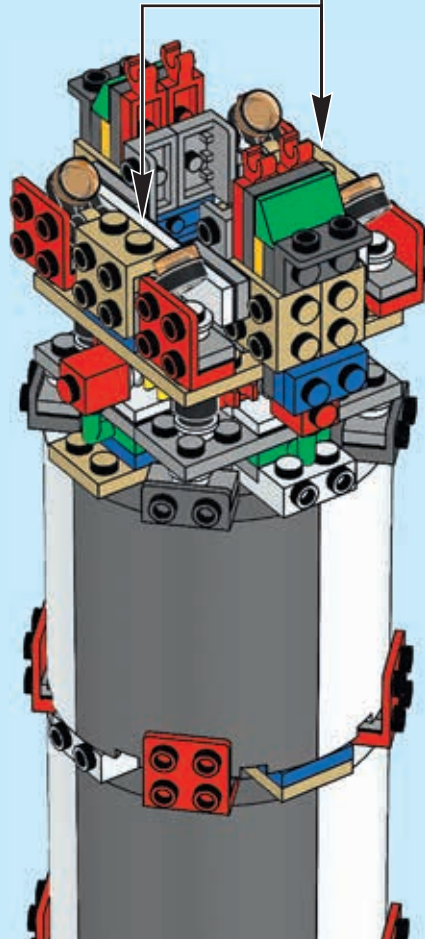


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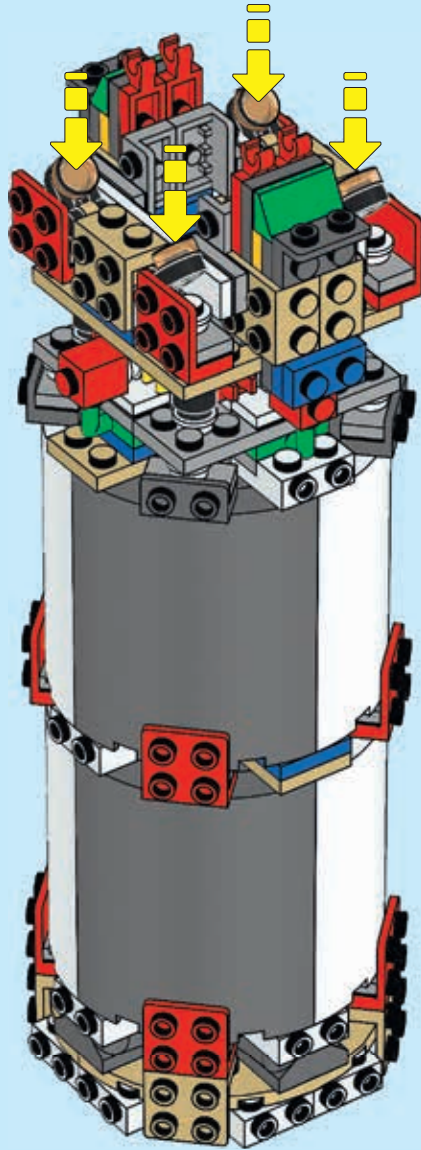


2x

170

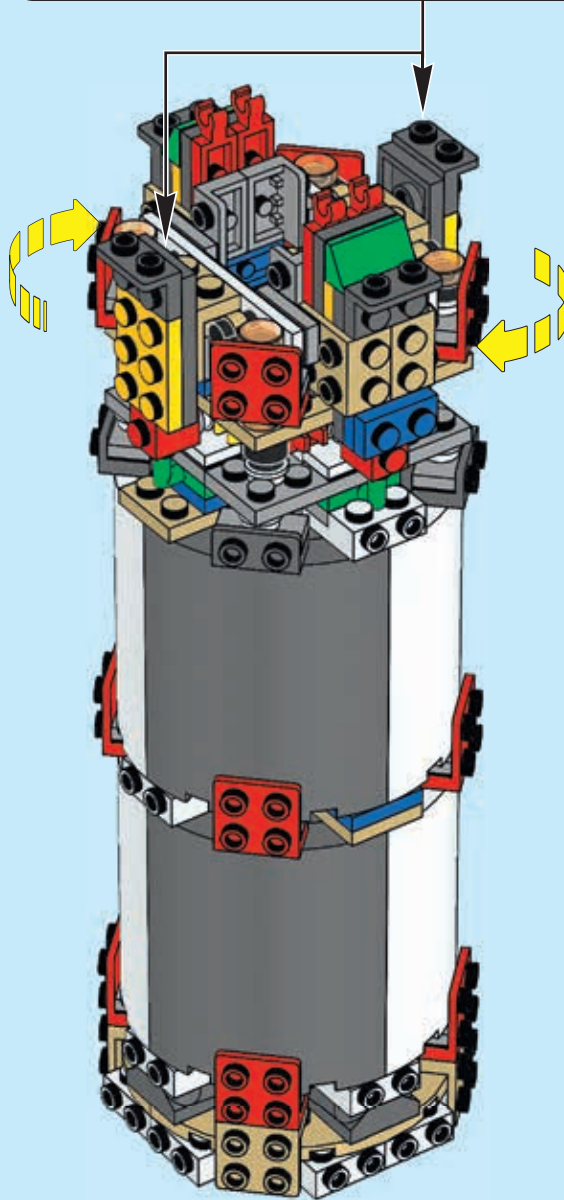


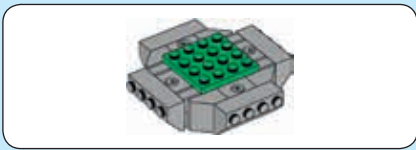
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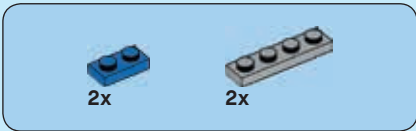


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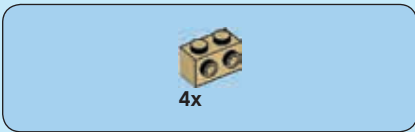
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174



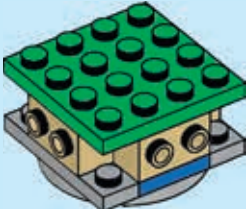
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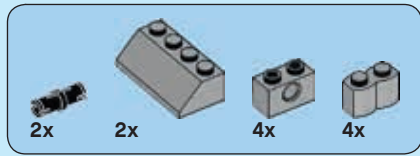


176

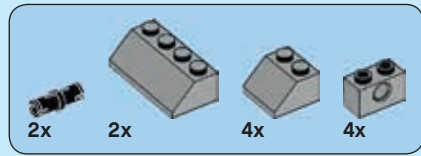
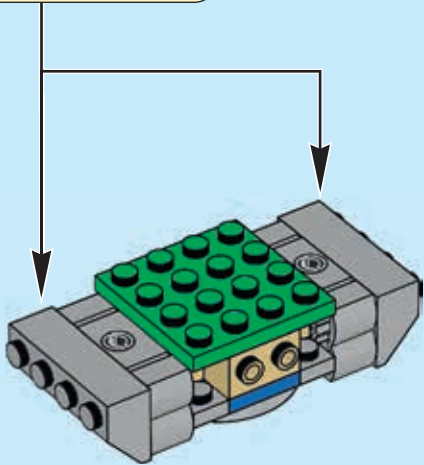
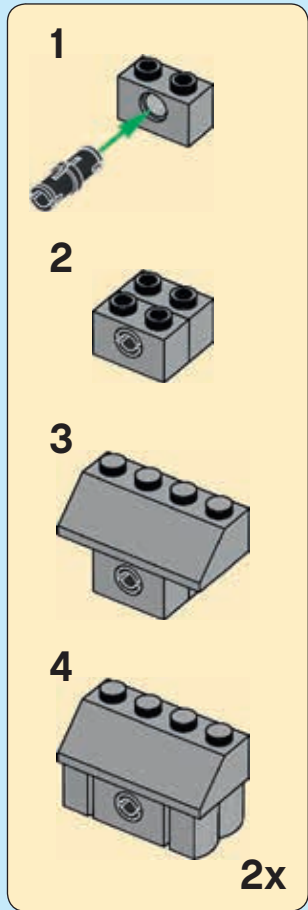


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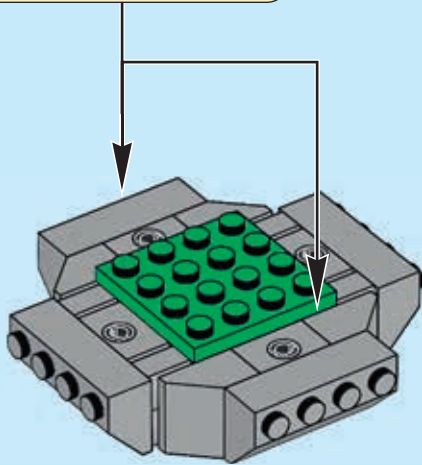
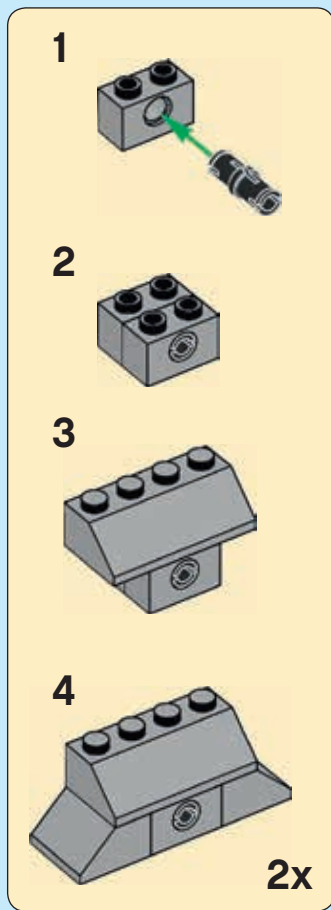




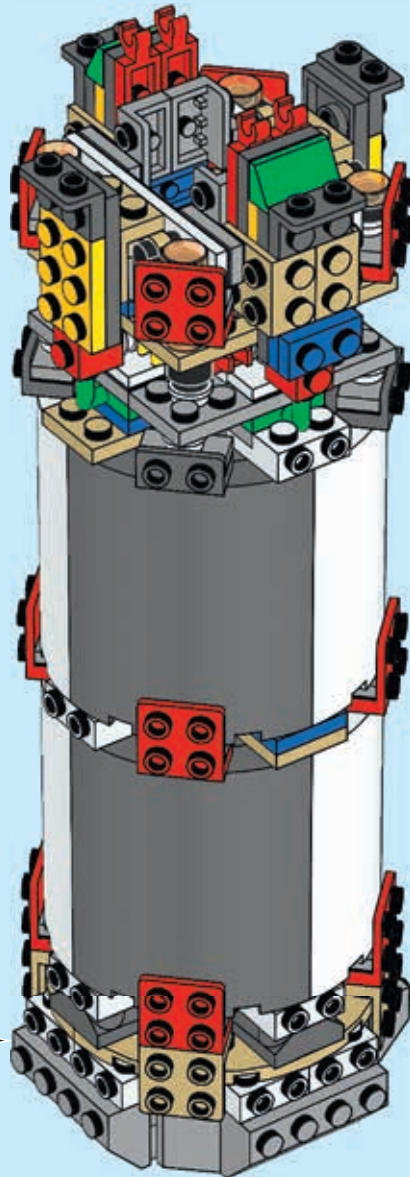
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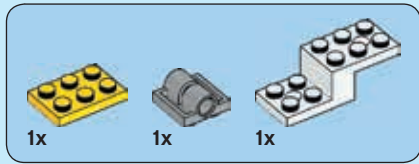
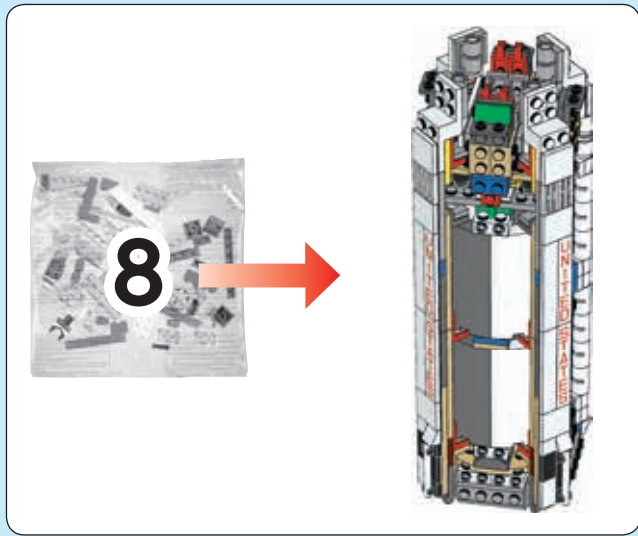


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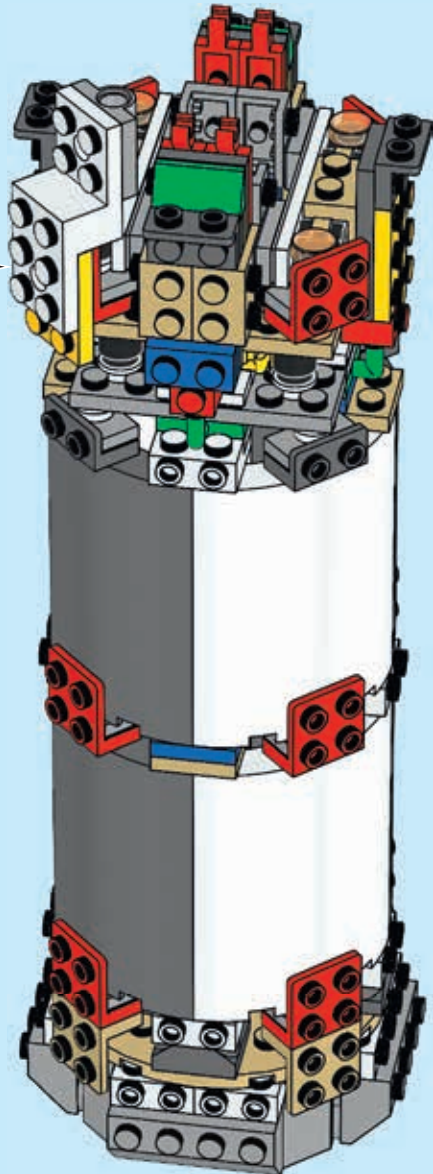
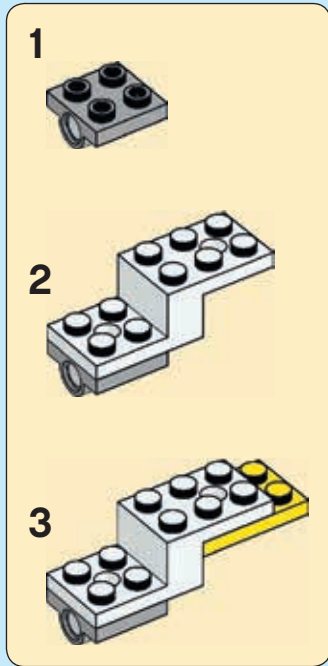


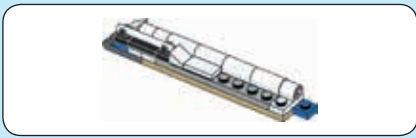
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181

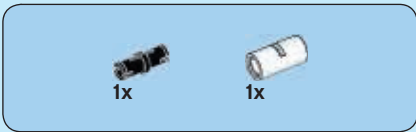
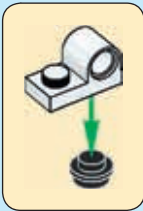




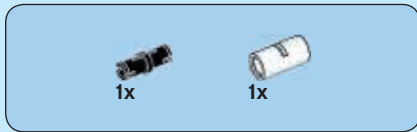
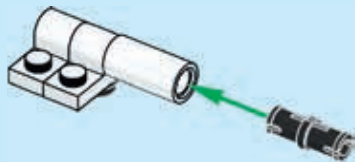
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183



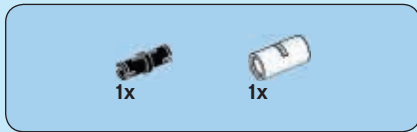
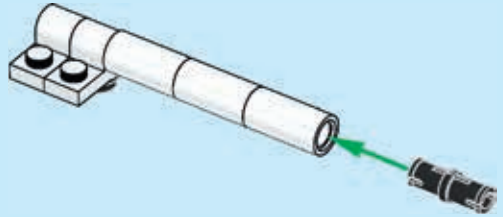
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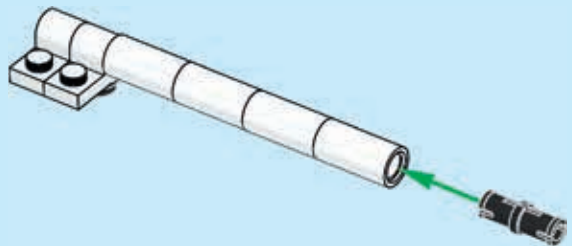
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186

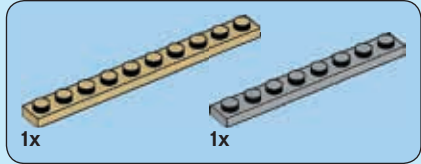
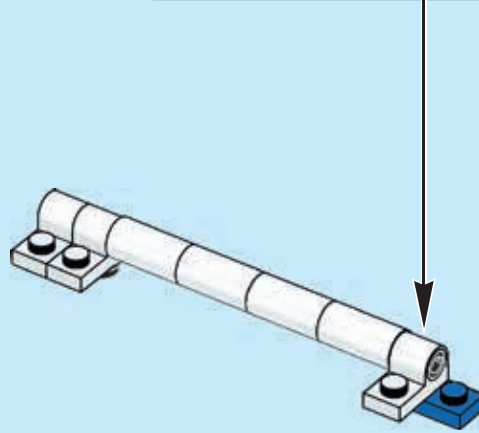


187

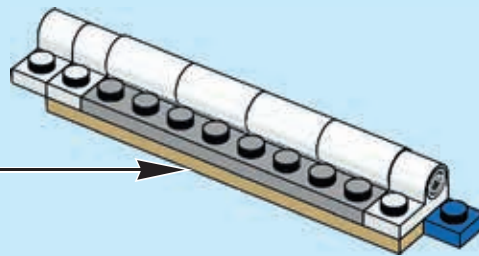
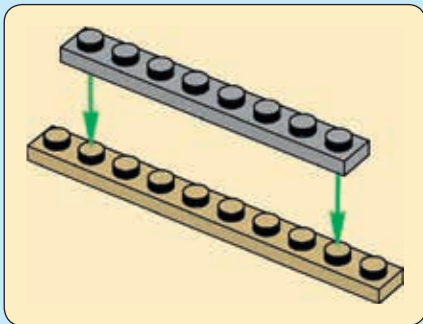




188

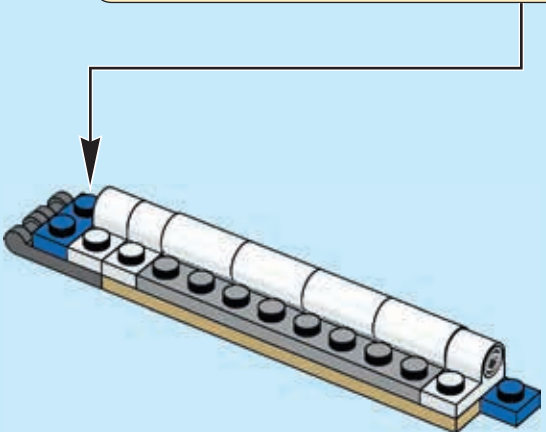
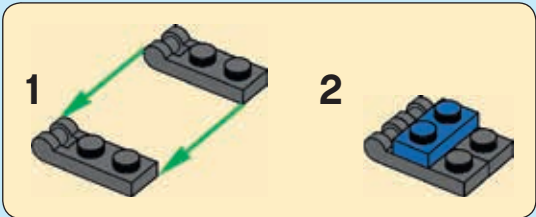


189

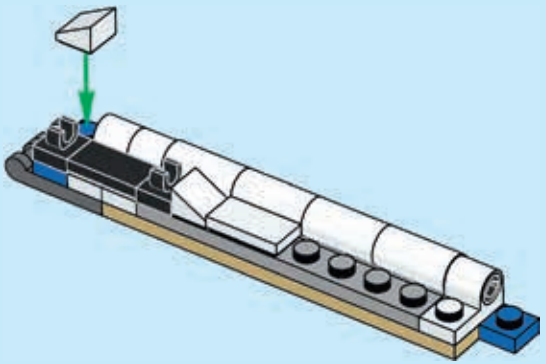




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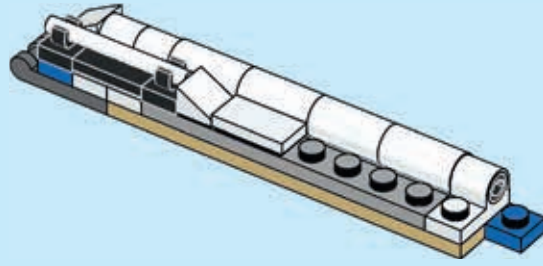


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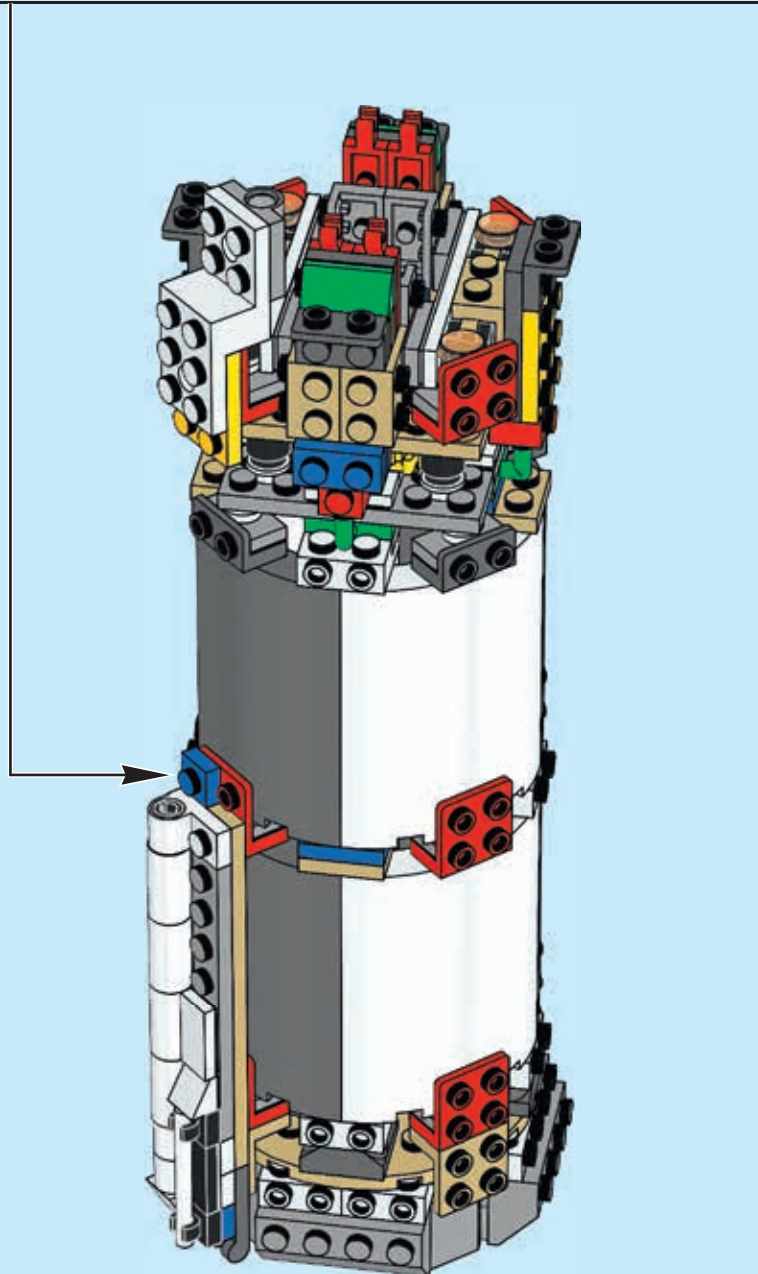




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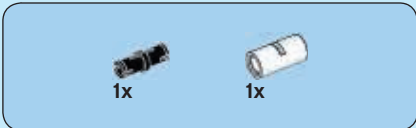


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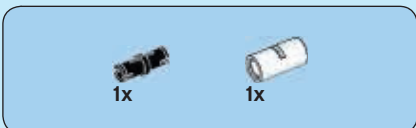
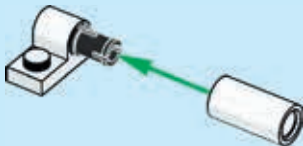




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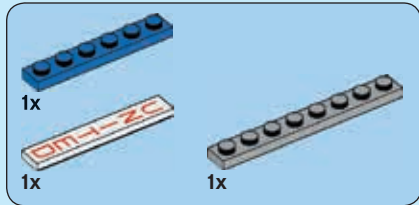
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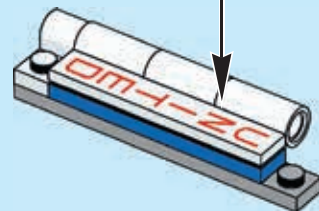
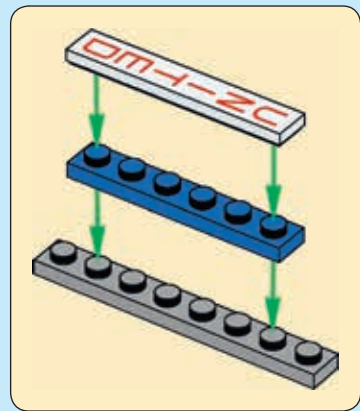
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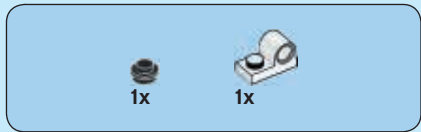


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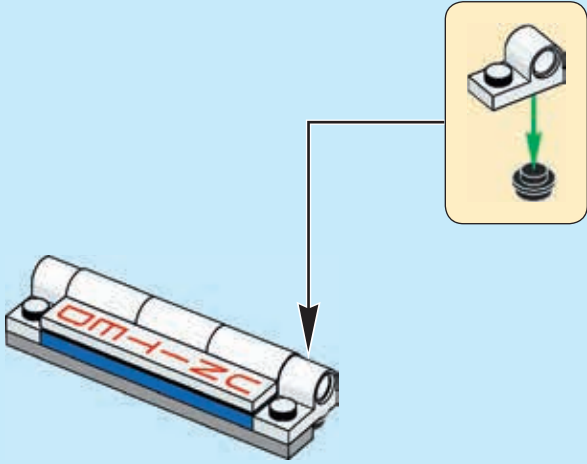


198

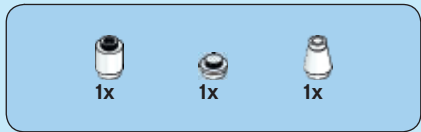
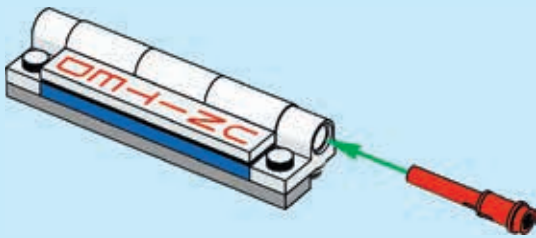




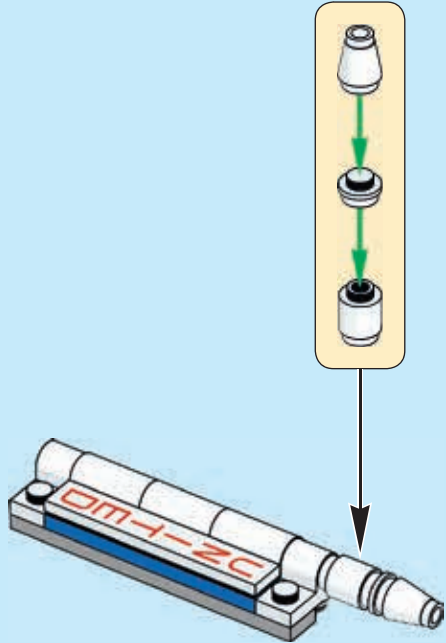
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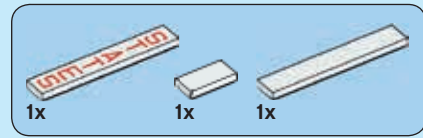
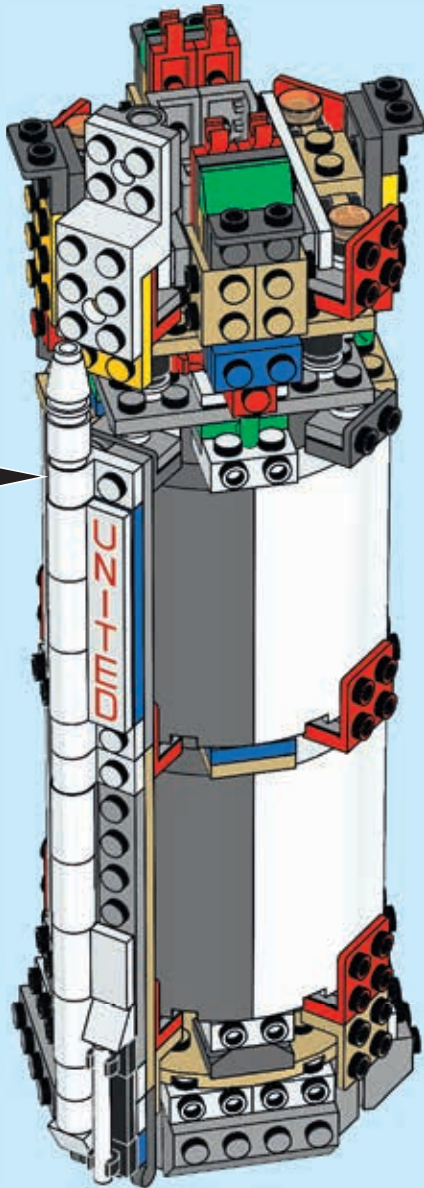
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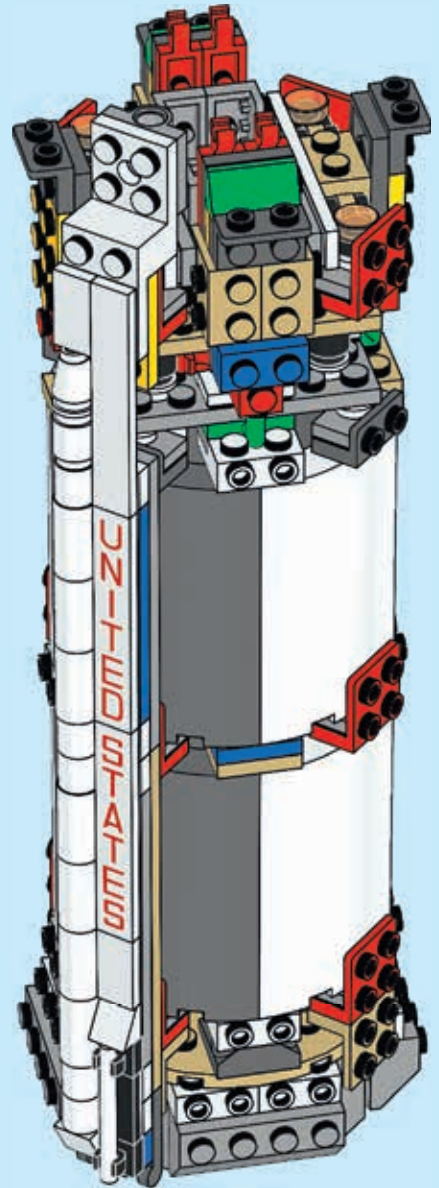
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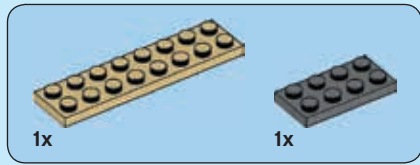


202

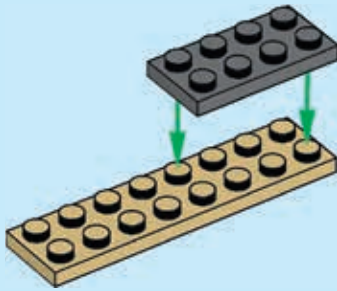


203

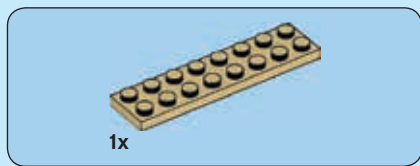
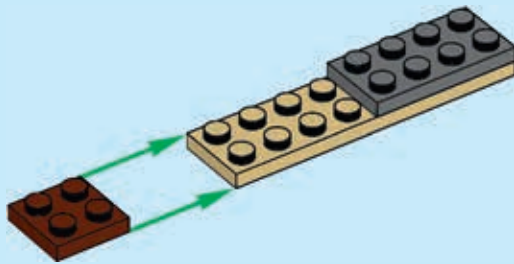




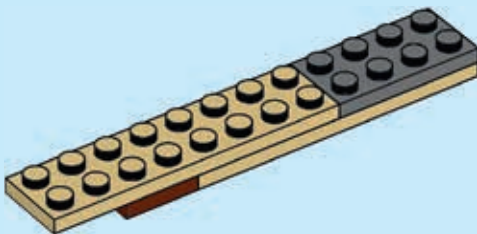
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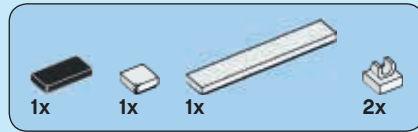
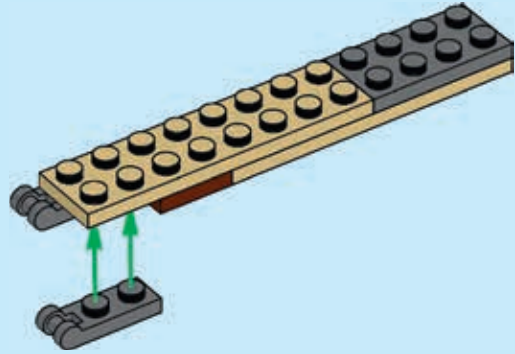
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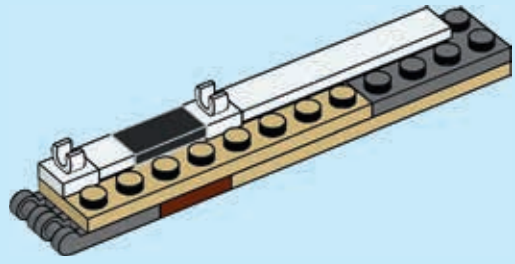
206



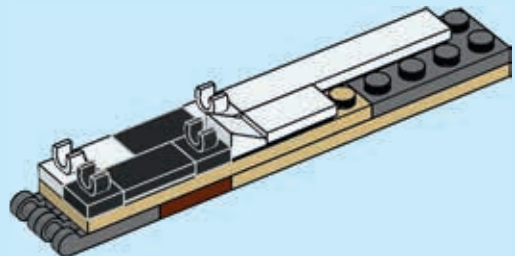
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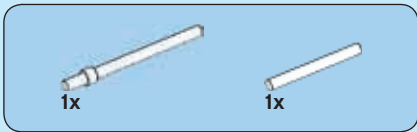


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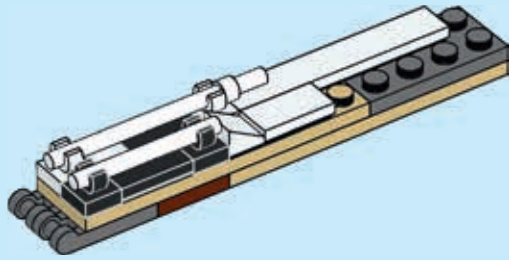


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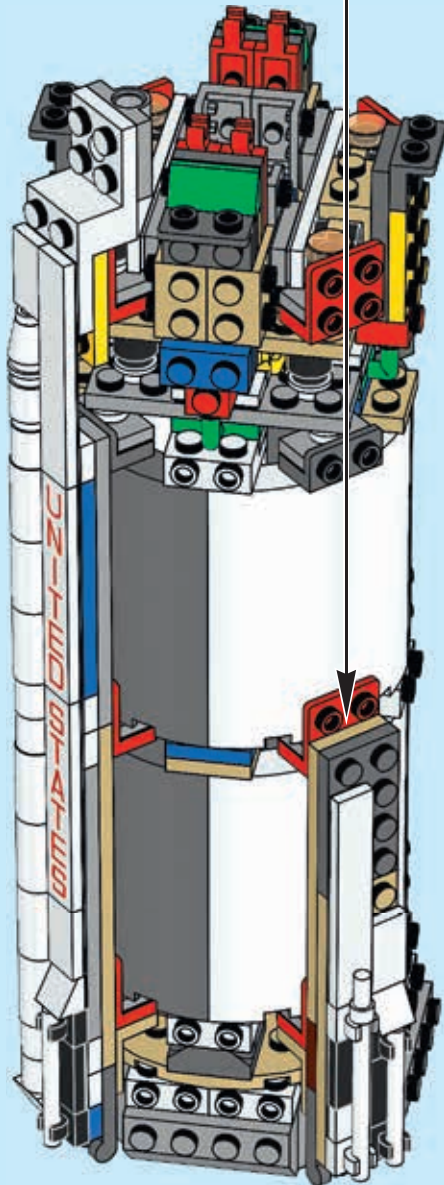


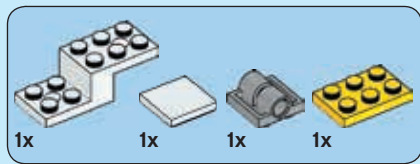


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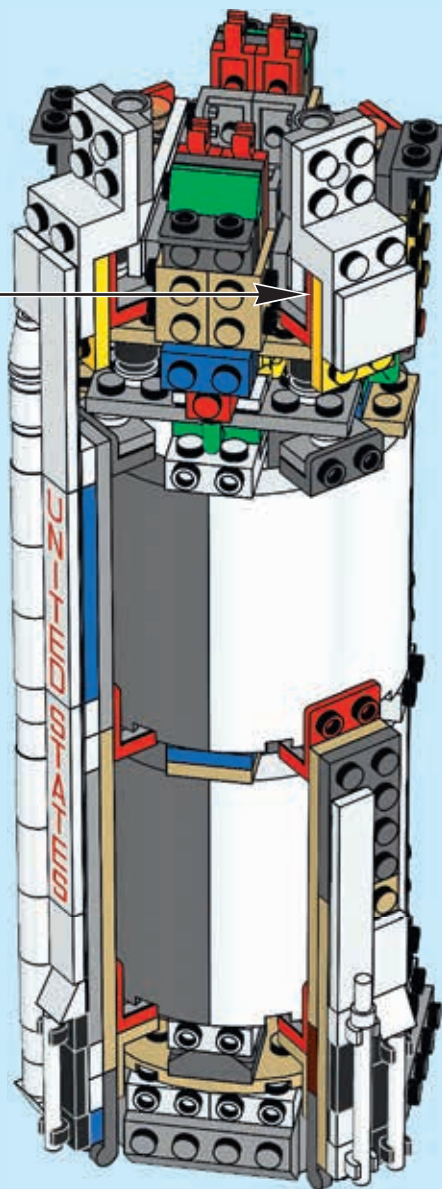
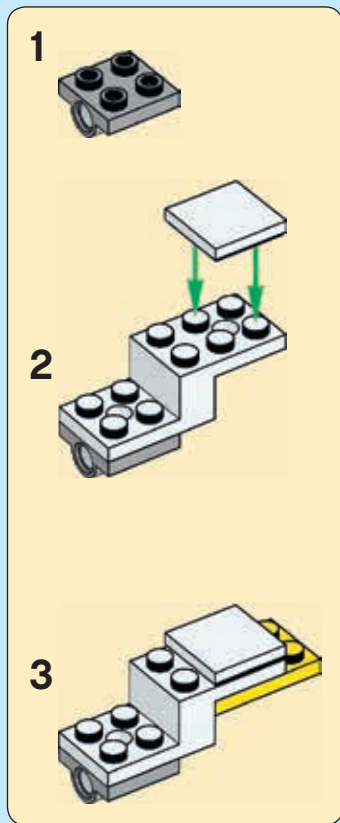


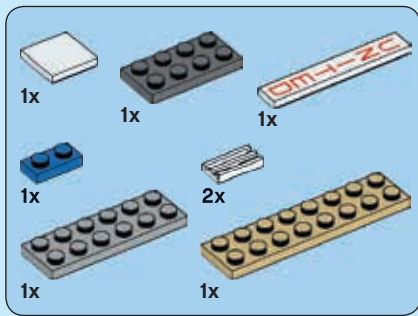
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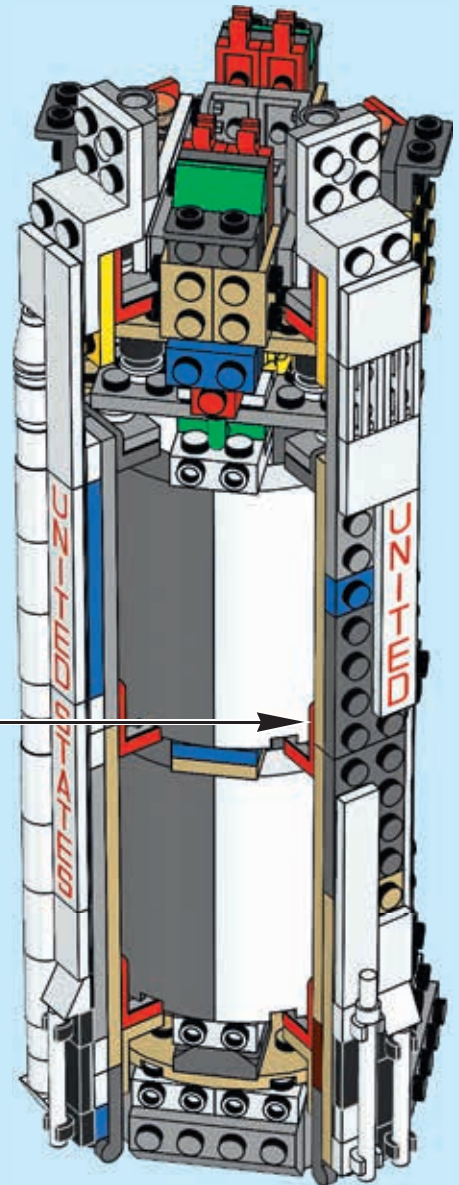
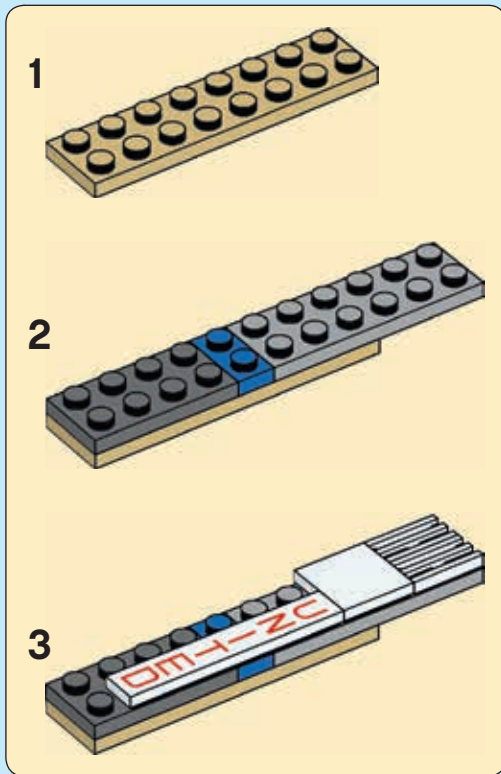


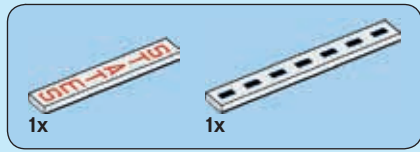
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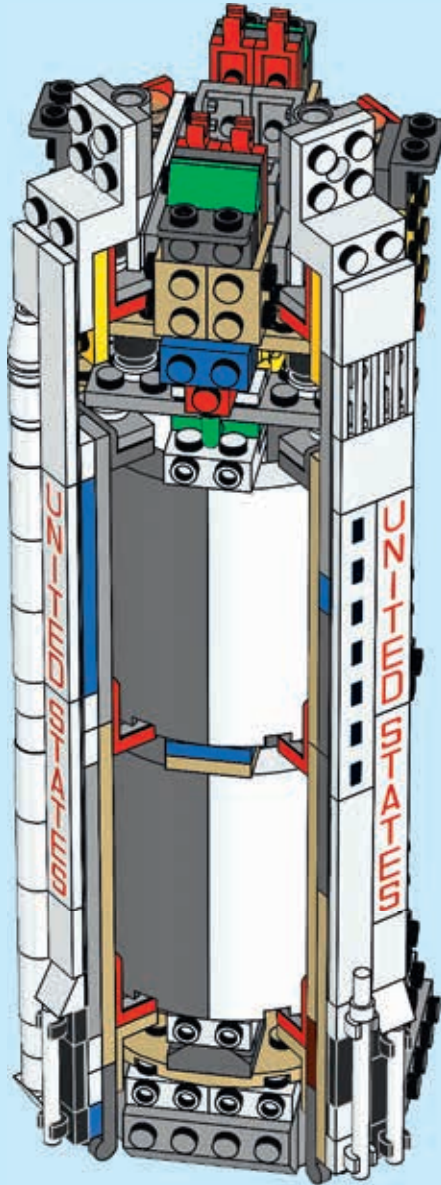


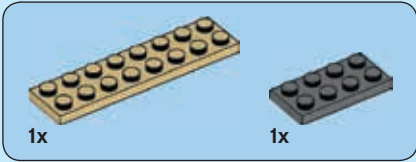
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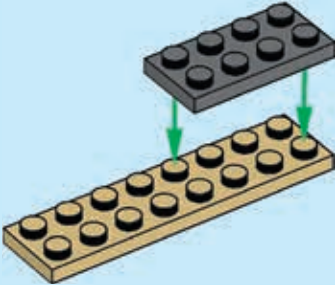


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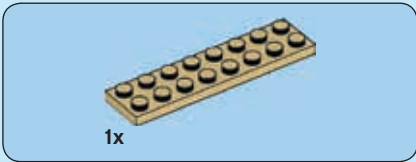
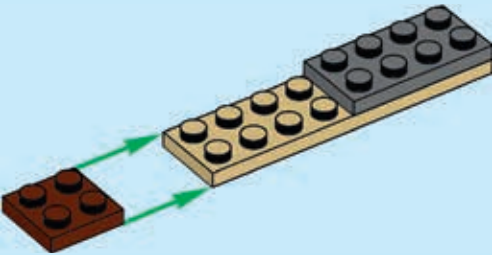




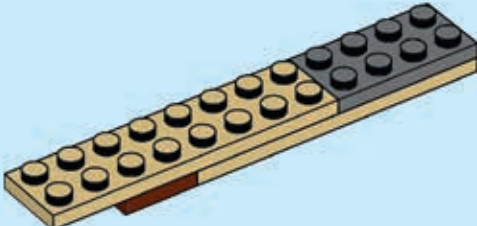
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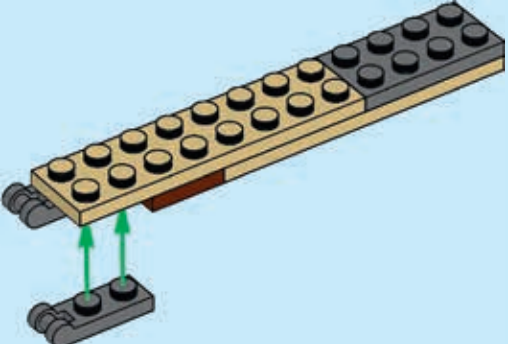
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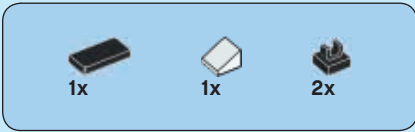
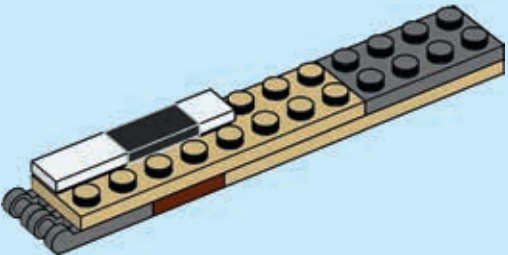
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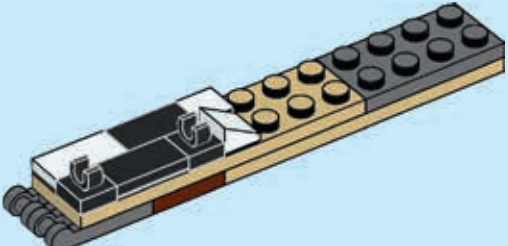
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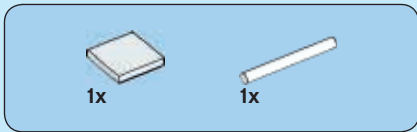


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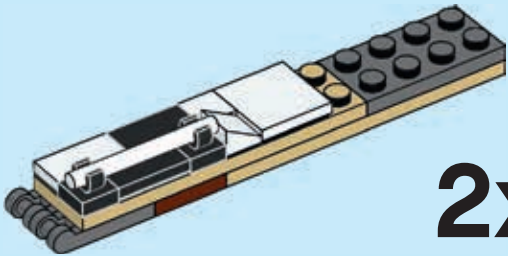


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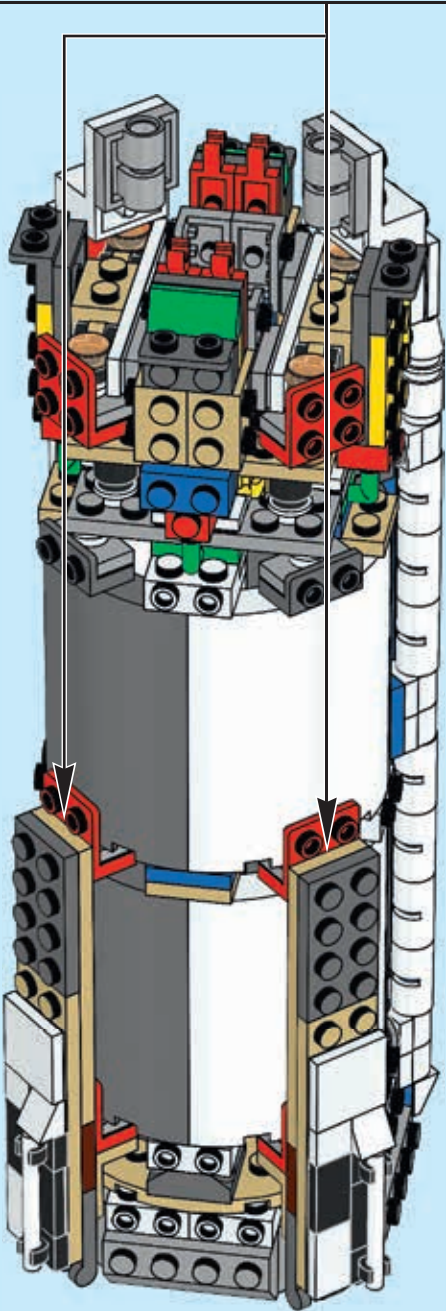
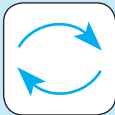


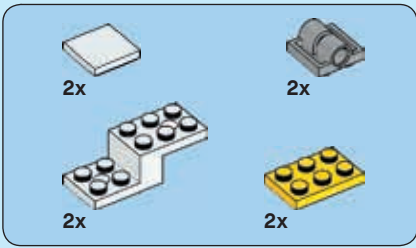


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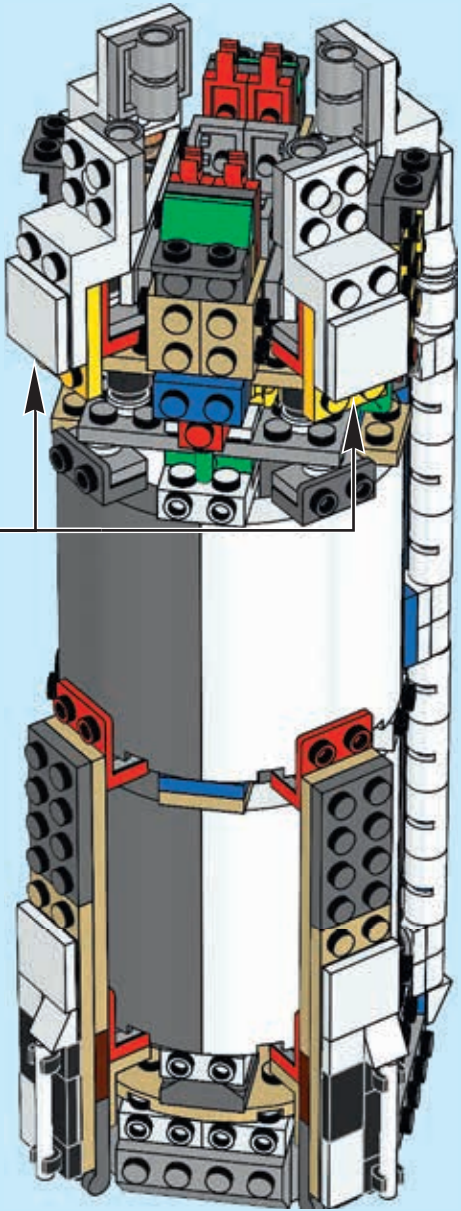
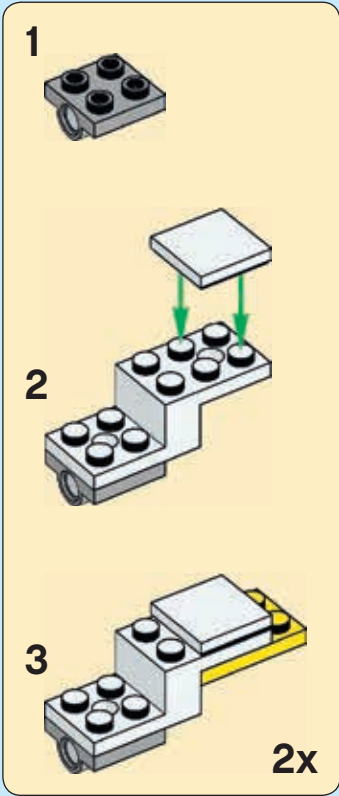


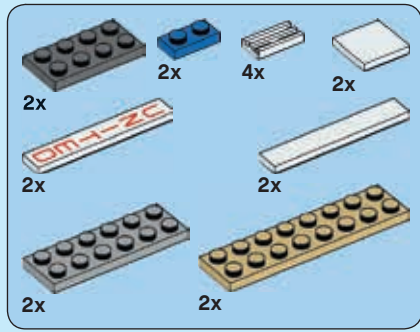
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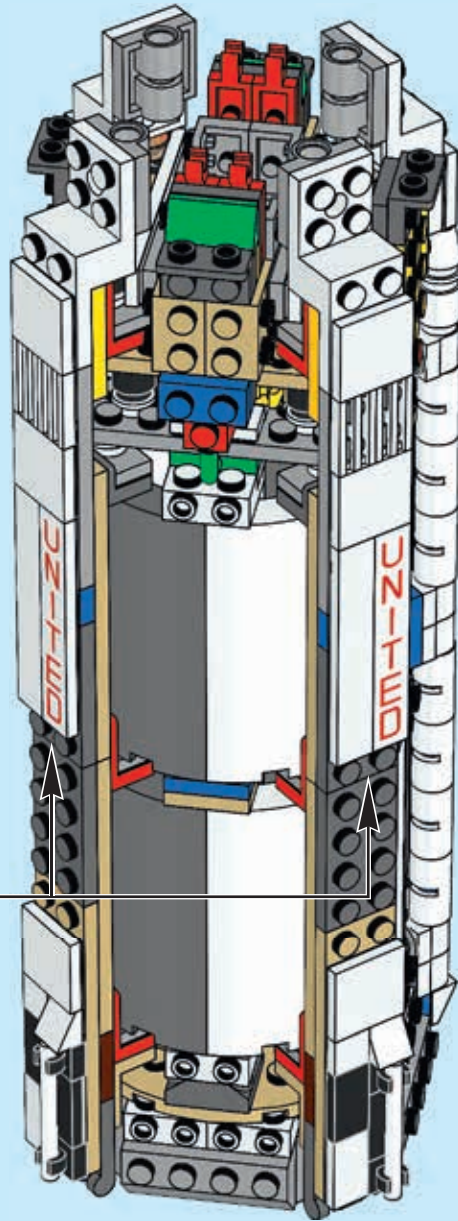
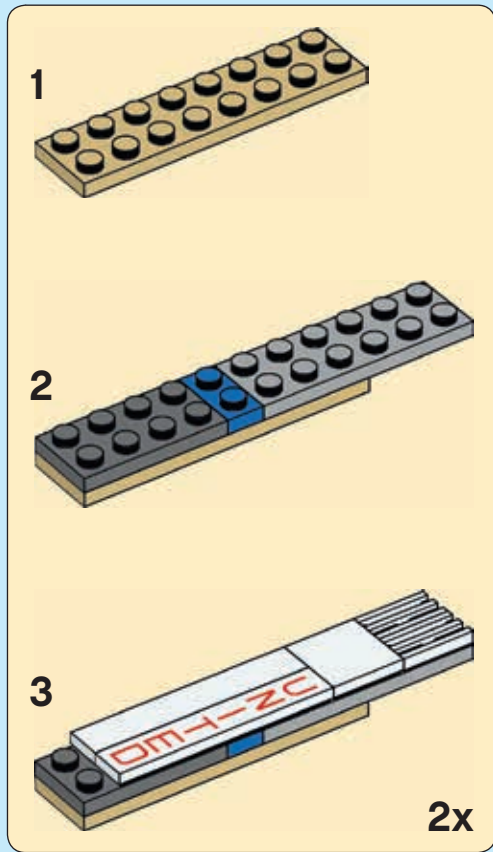


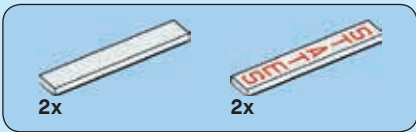
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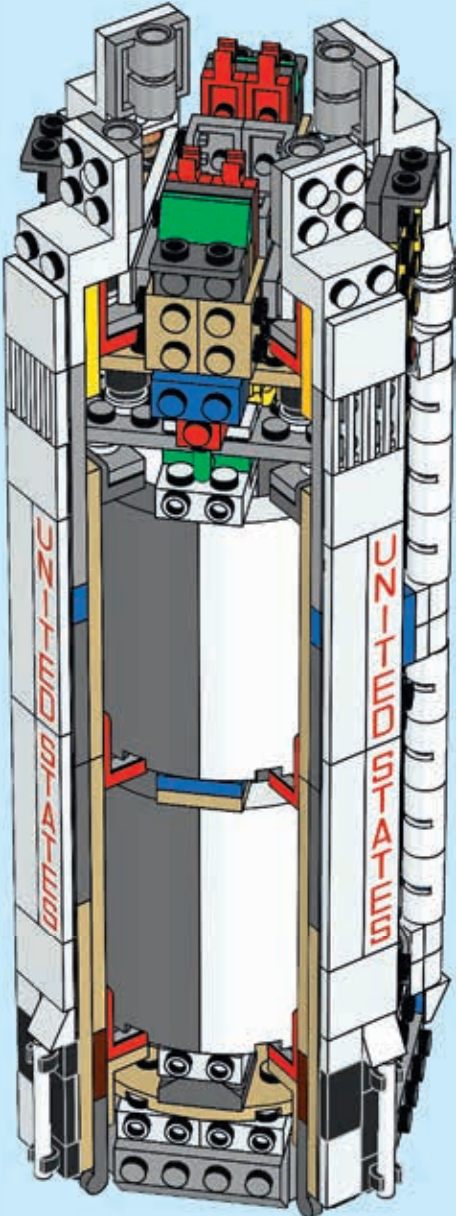


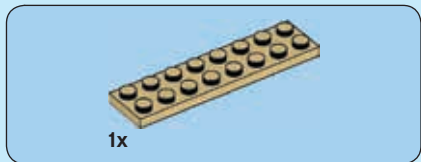
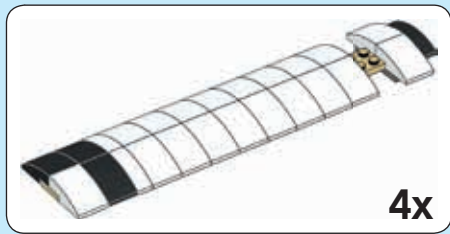
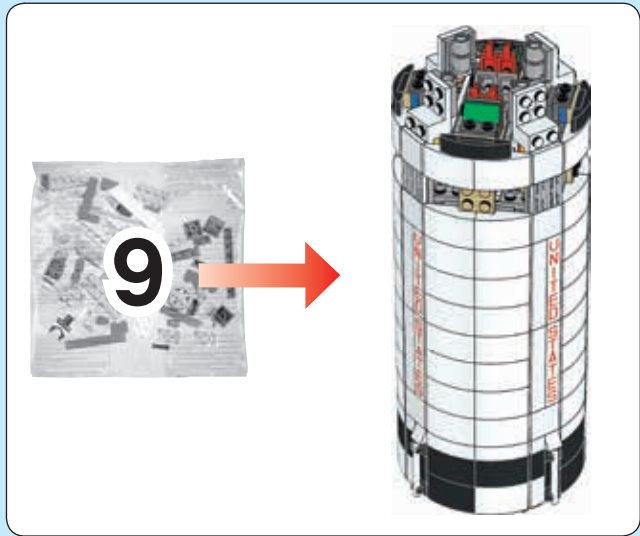
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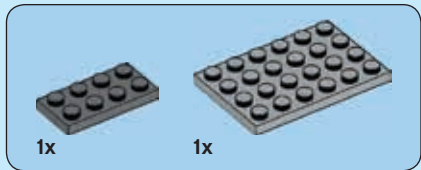
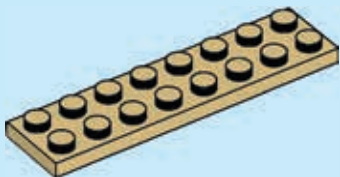


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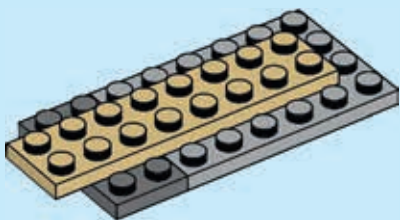




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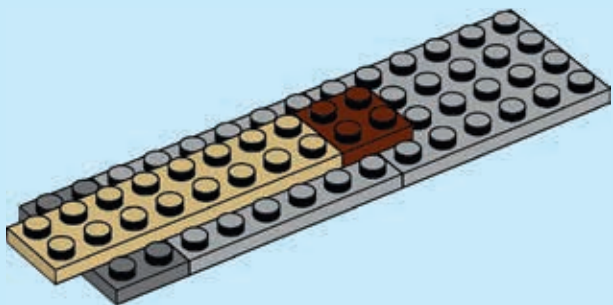
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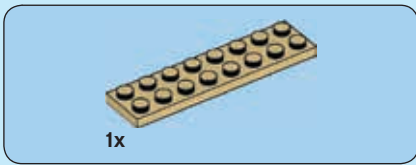


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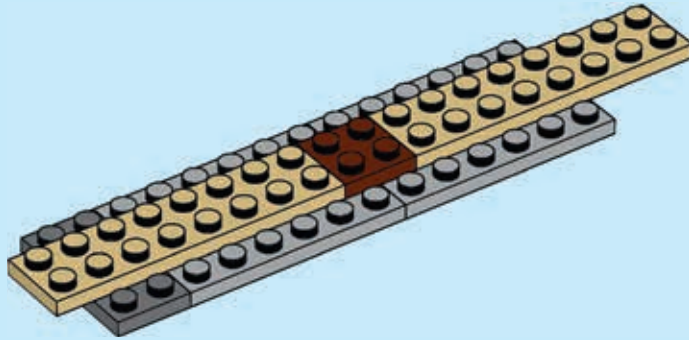


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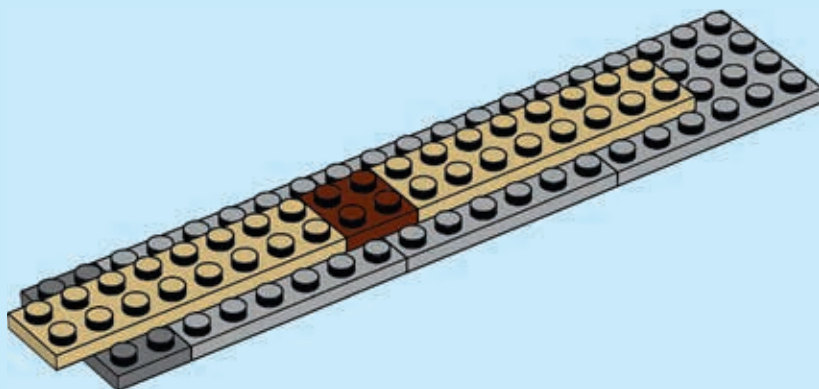


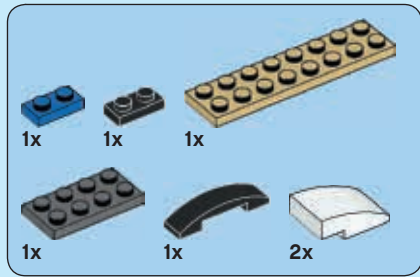


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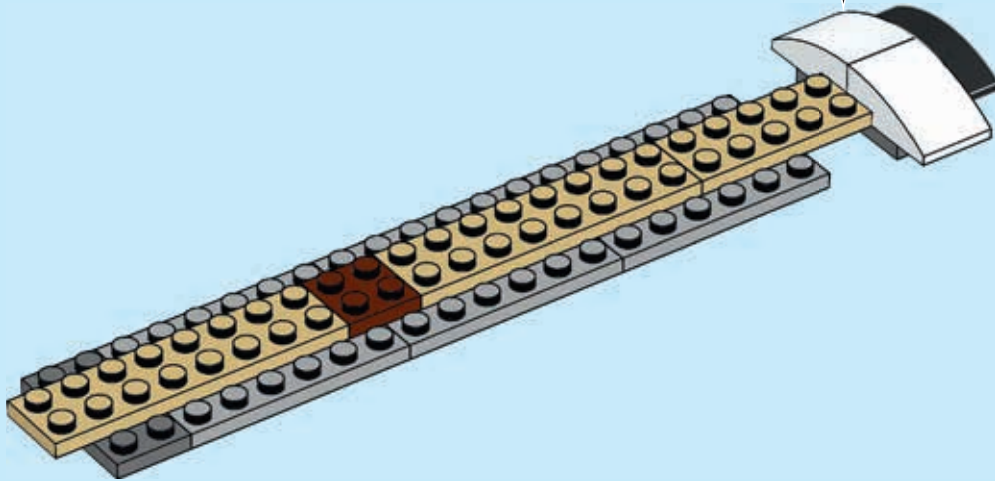
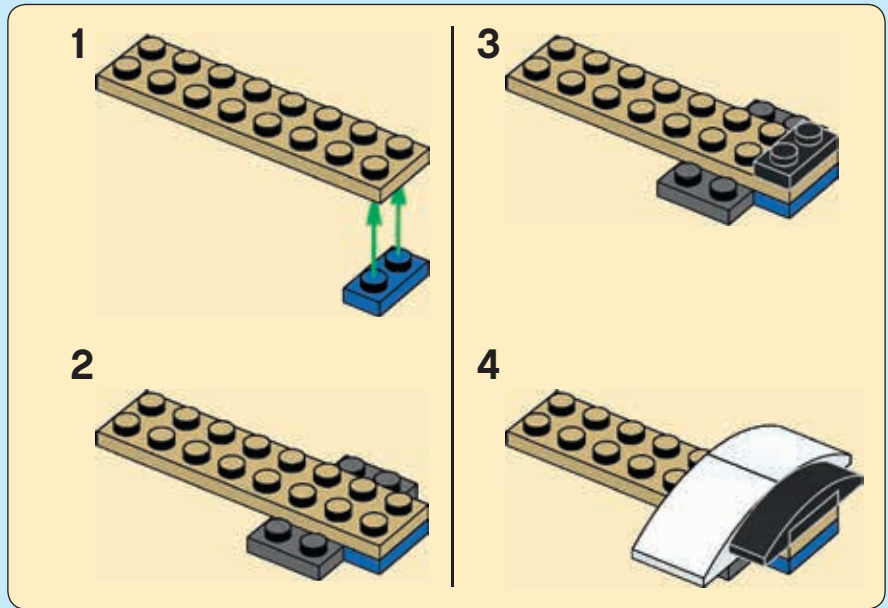


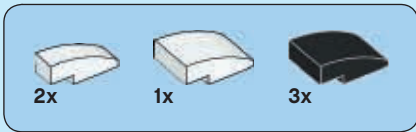
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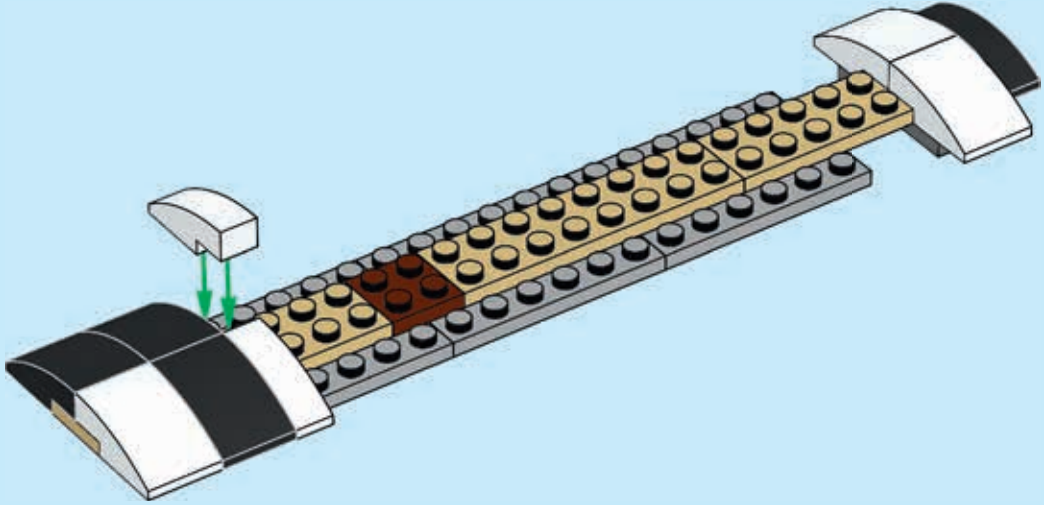


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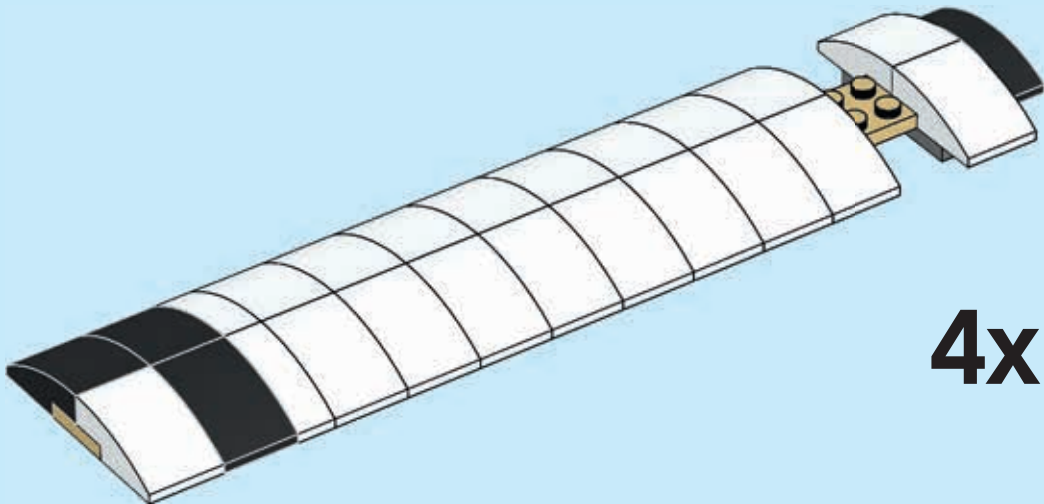


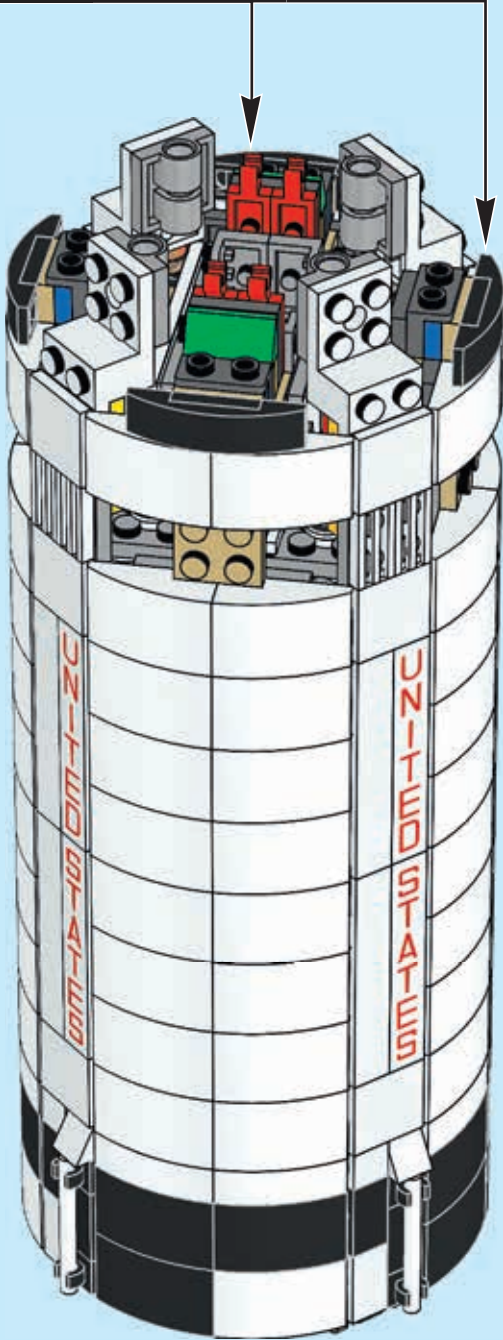


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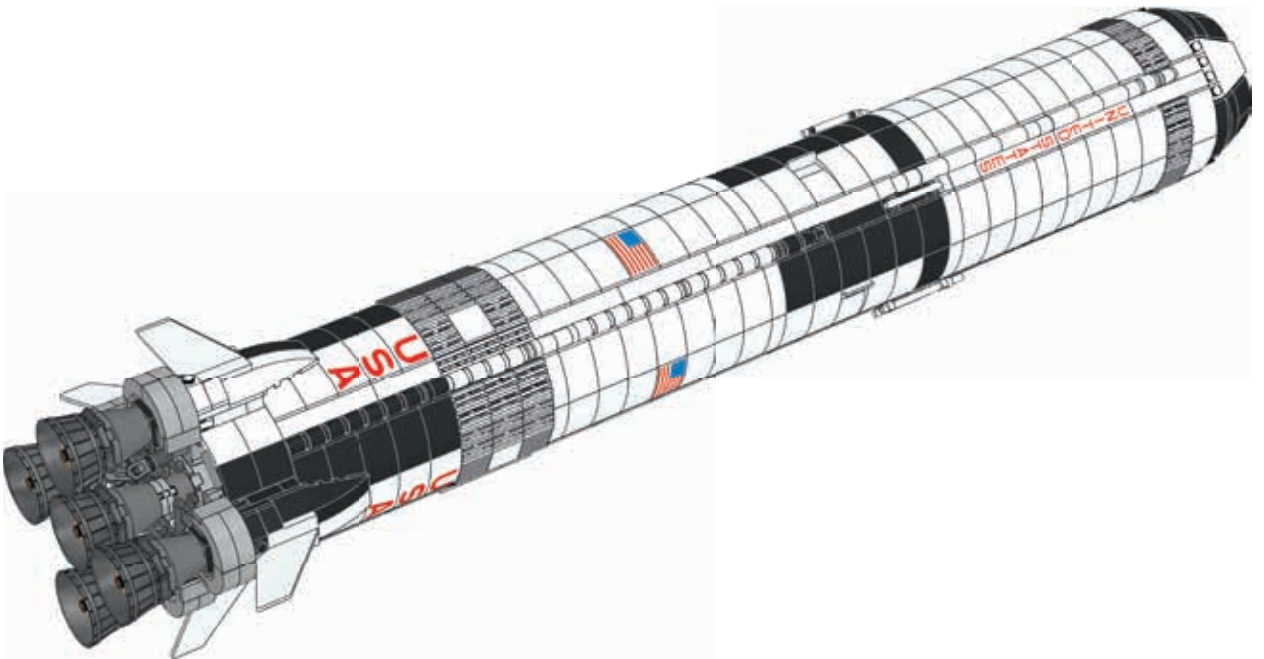
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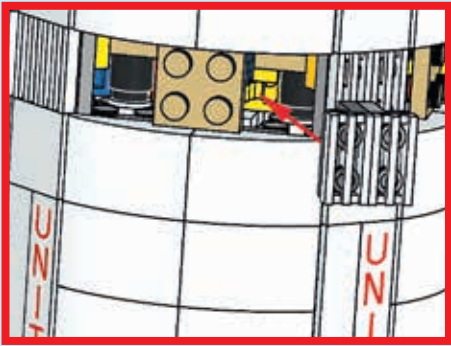
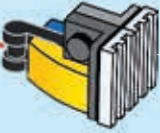
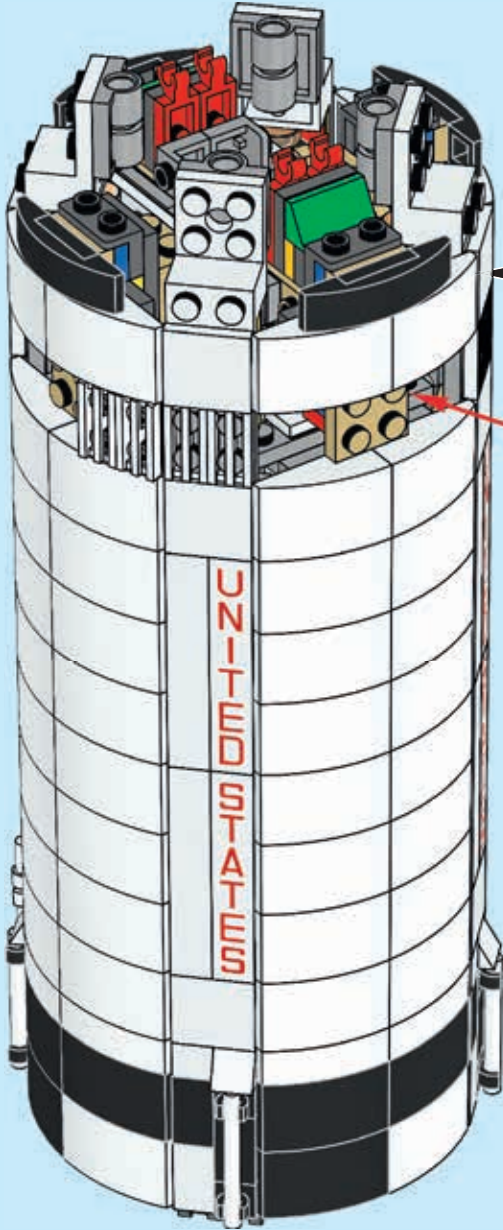
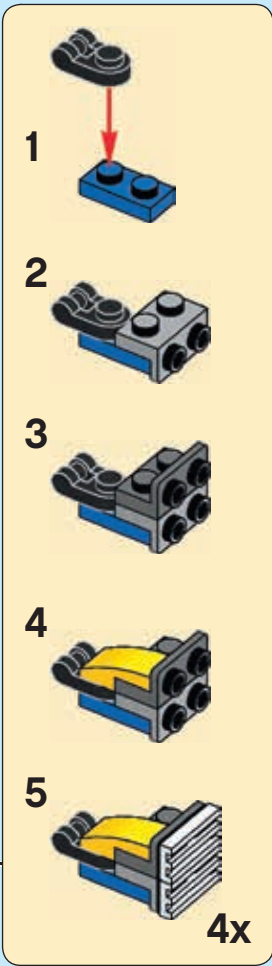


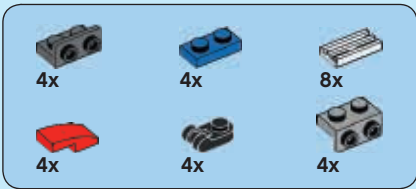
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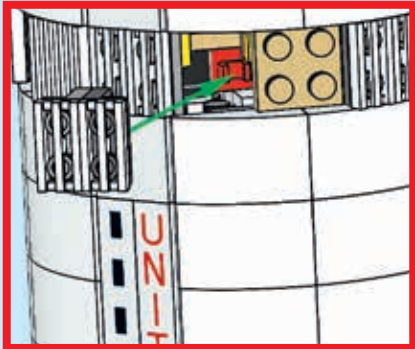
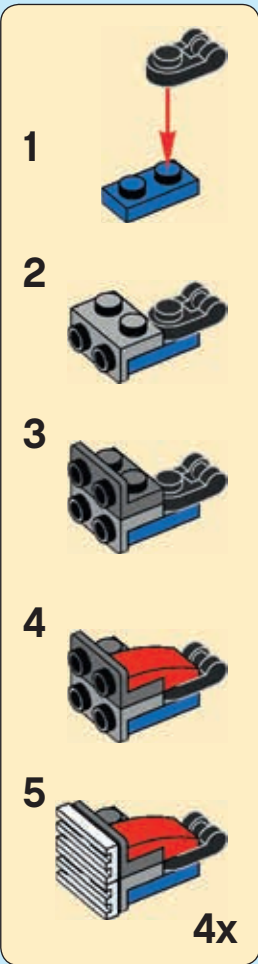
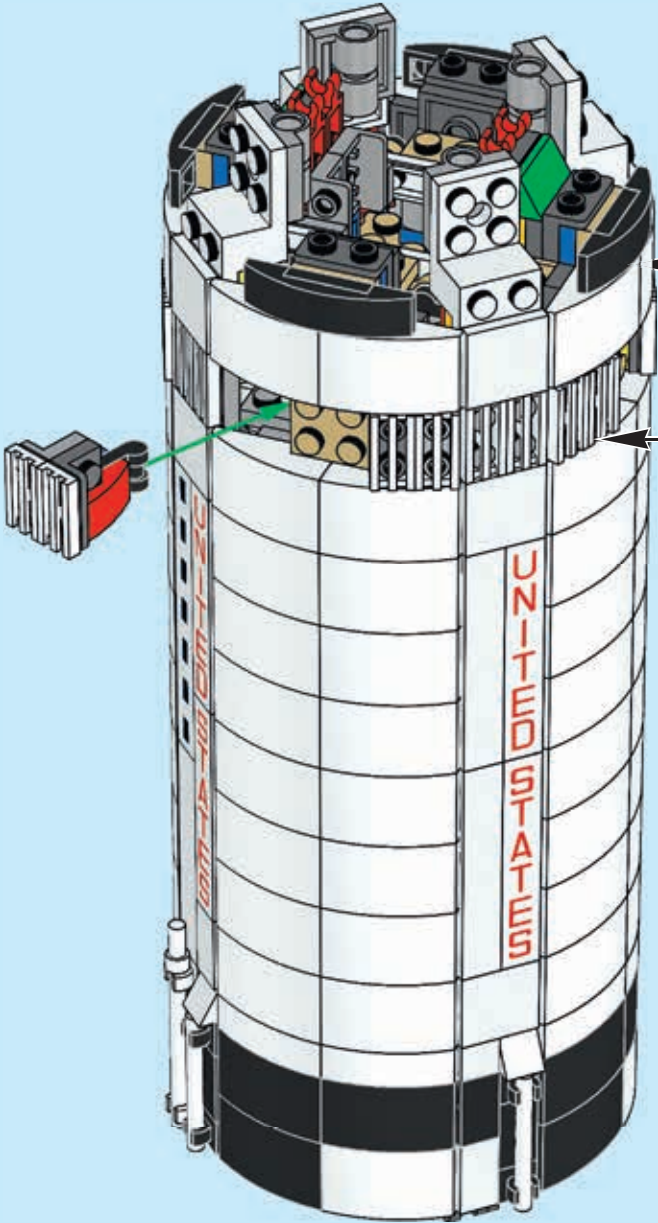


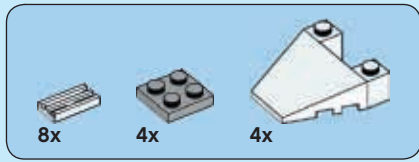
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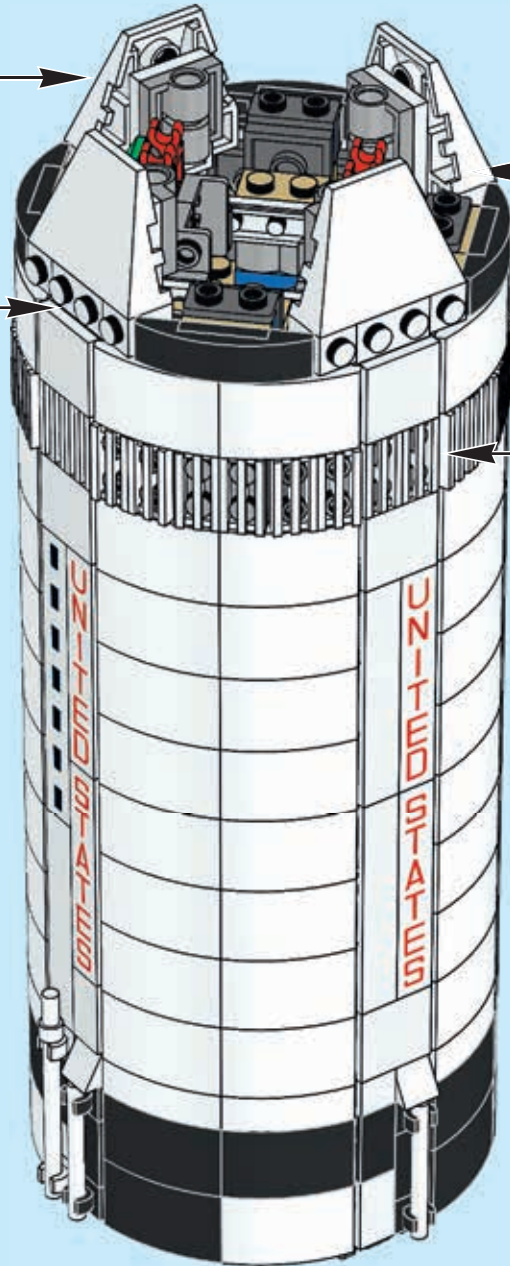
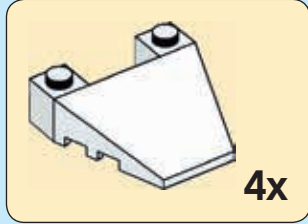
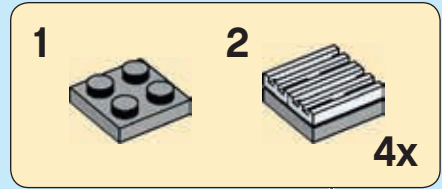


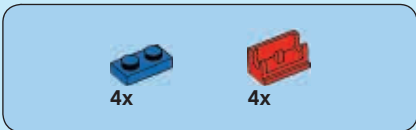
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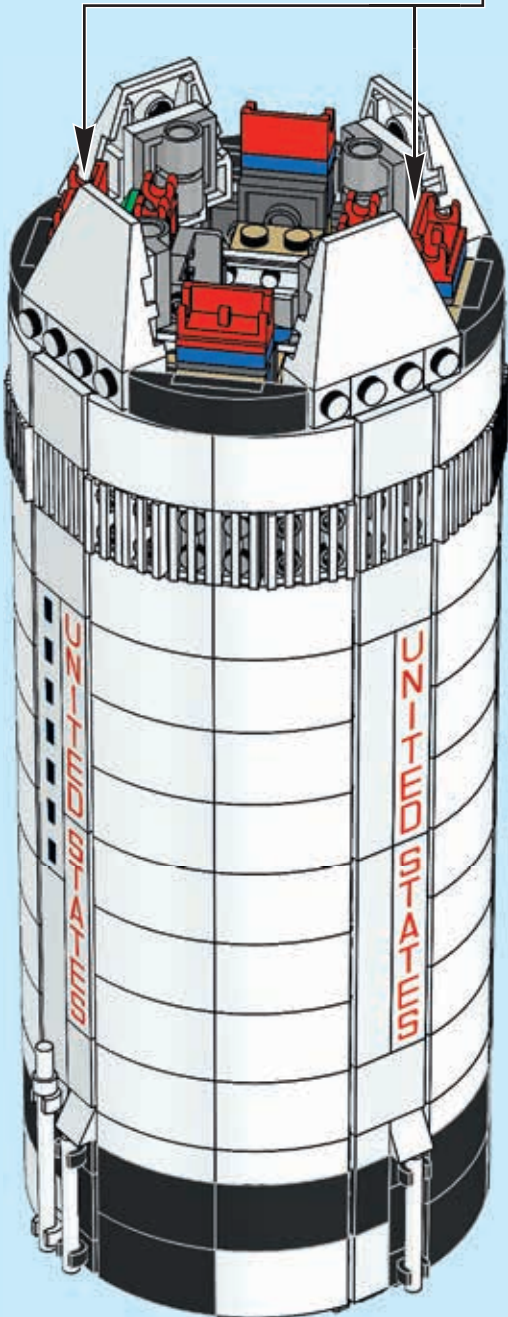
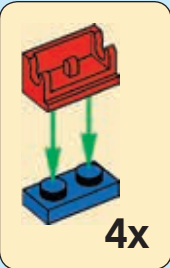


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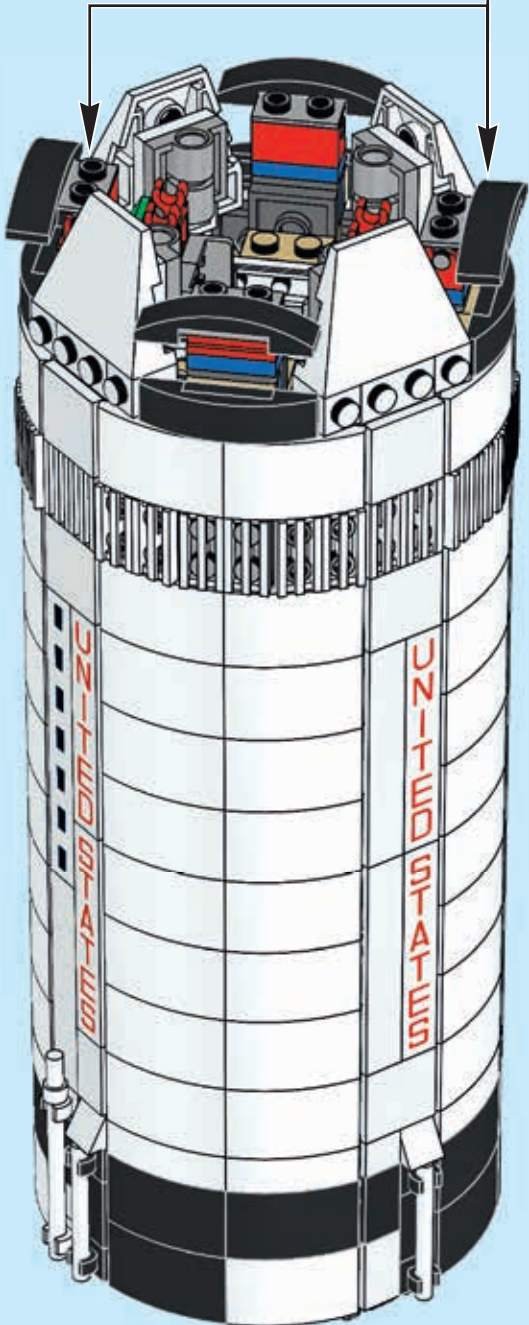
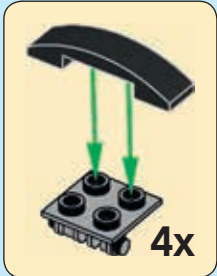




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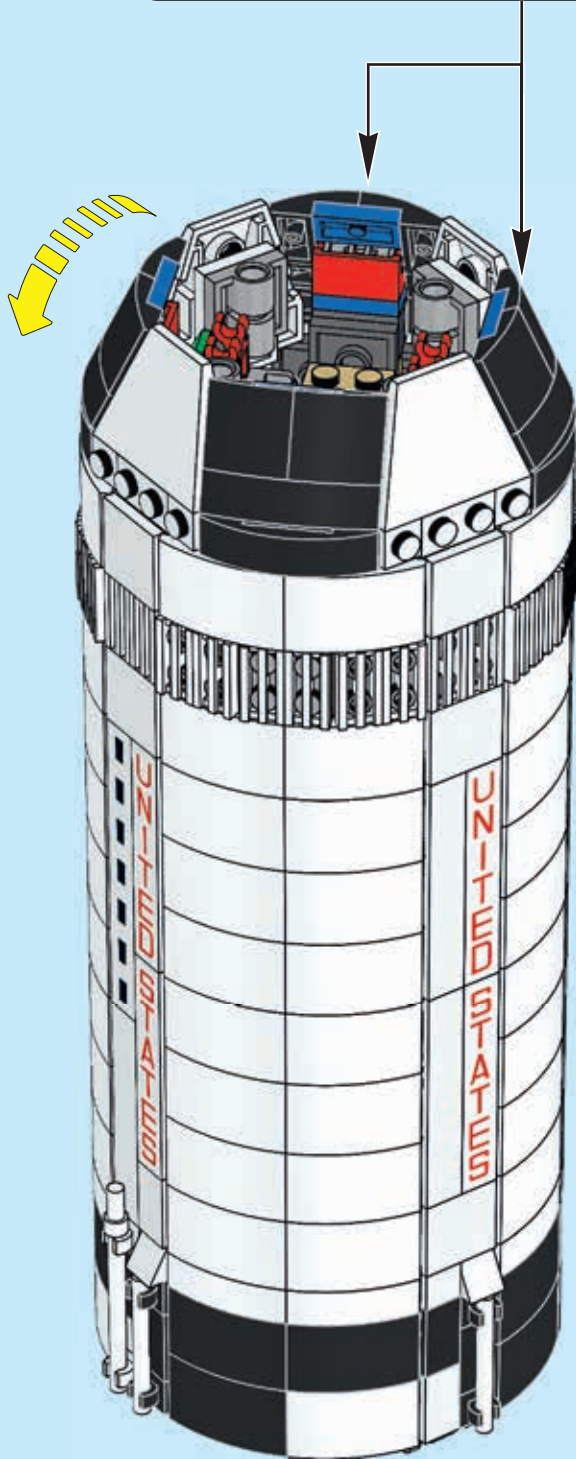
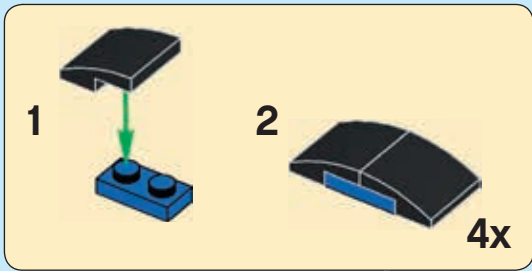


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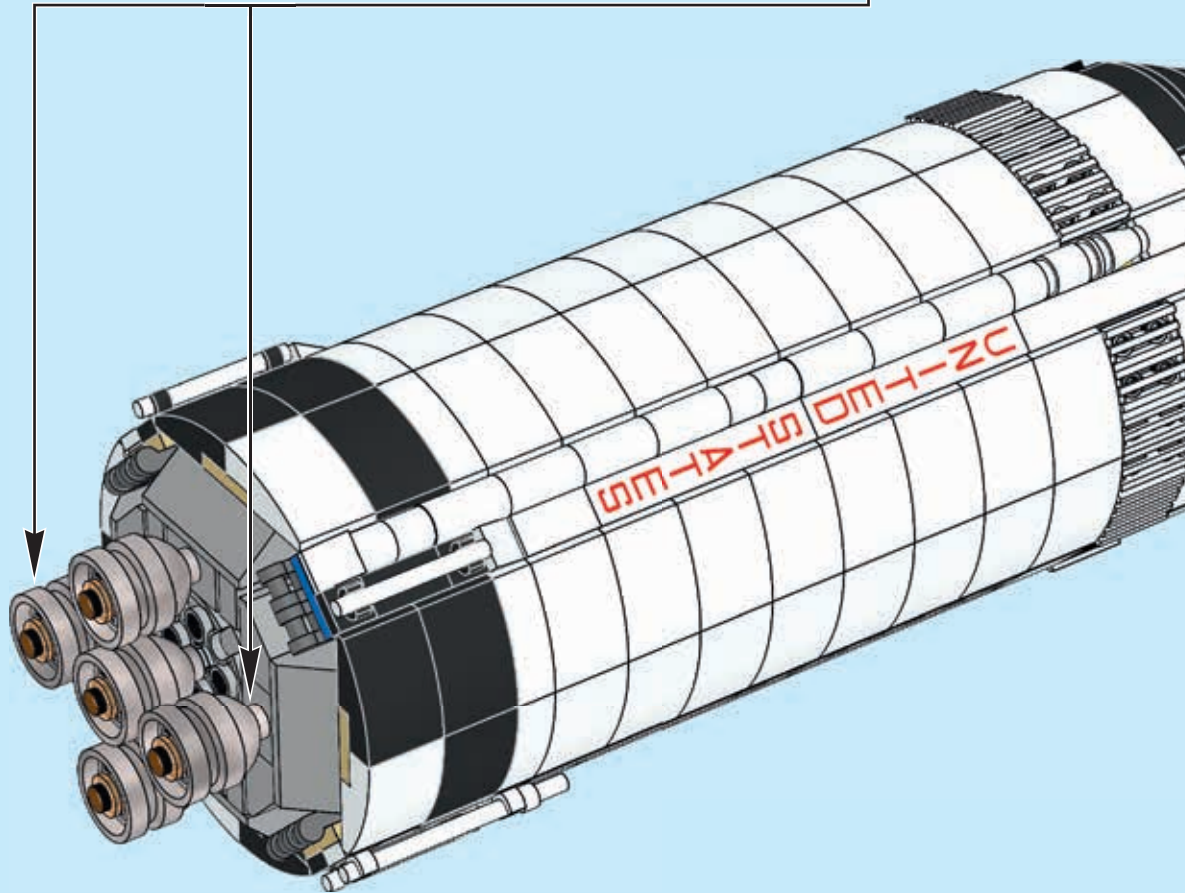
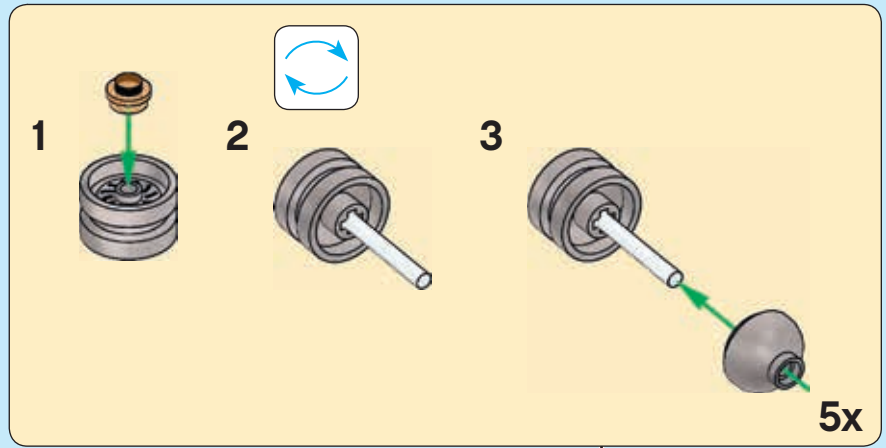


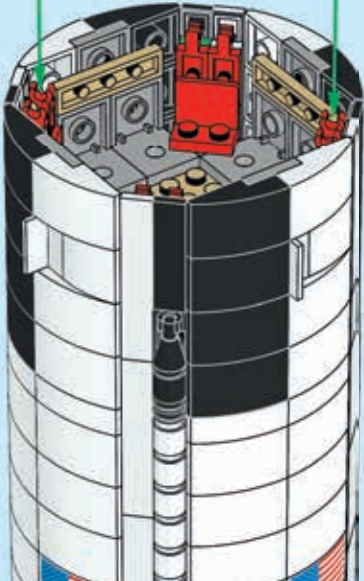
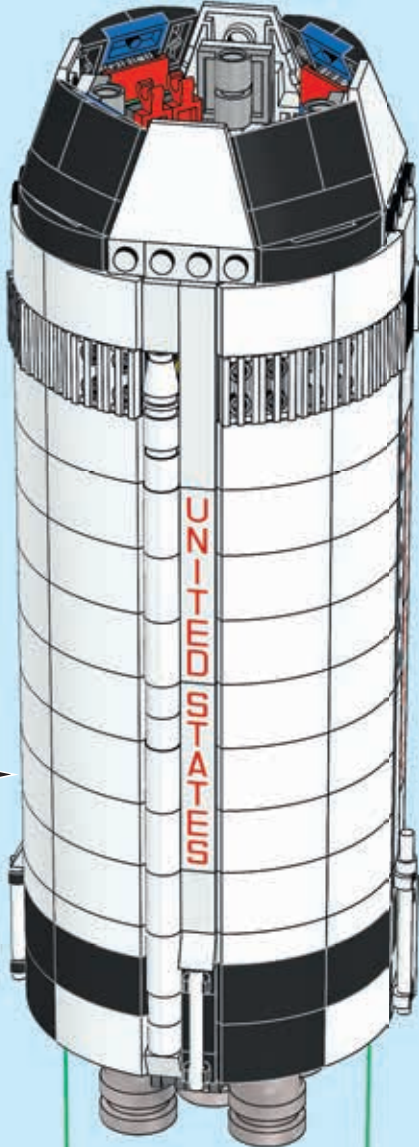
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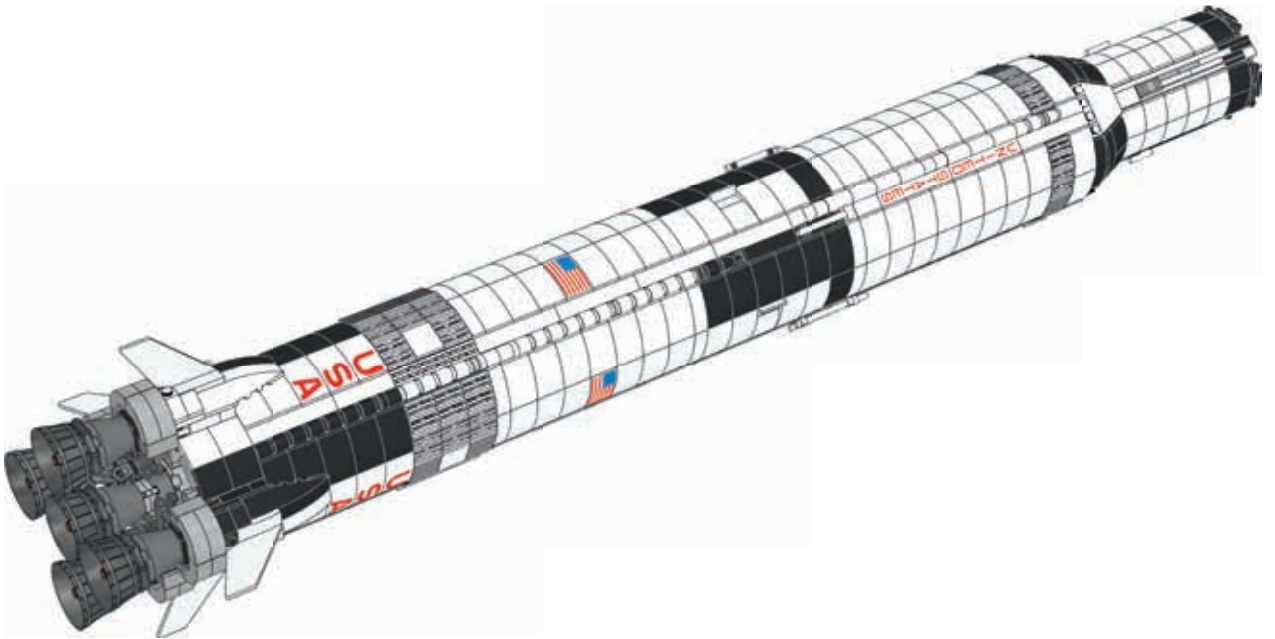


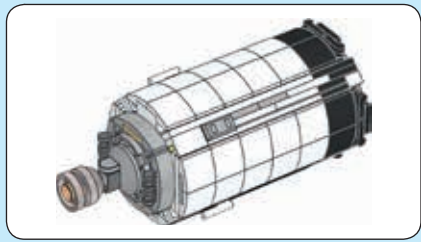


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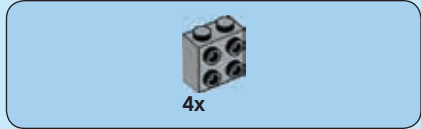
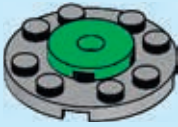




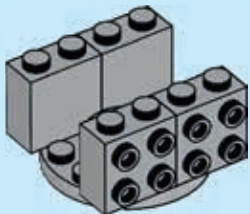




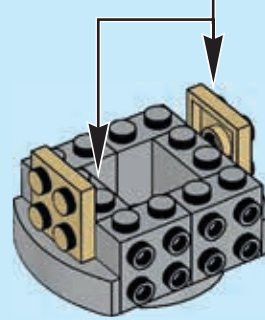
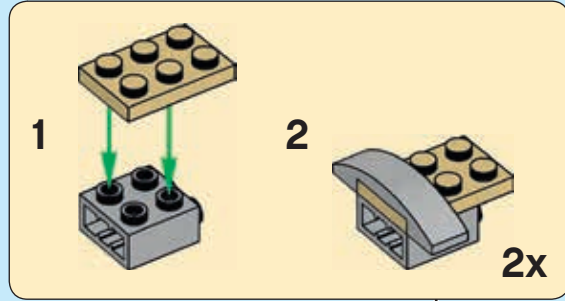
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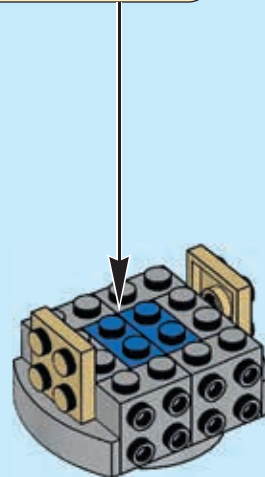
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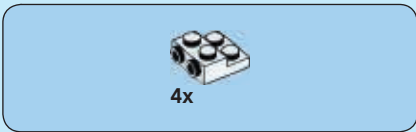


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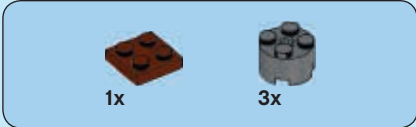
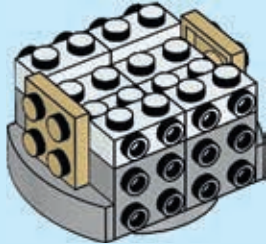


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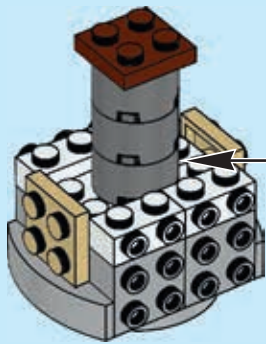
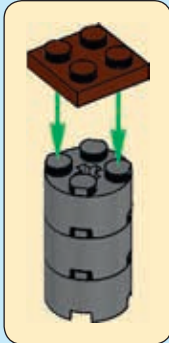




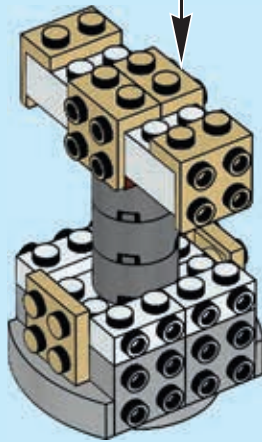
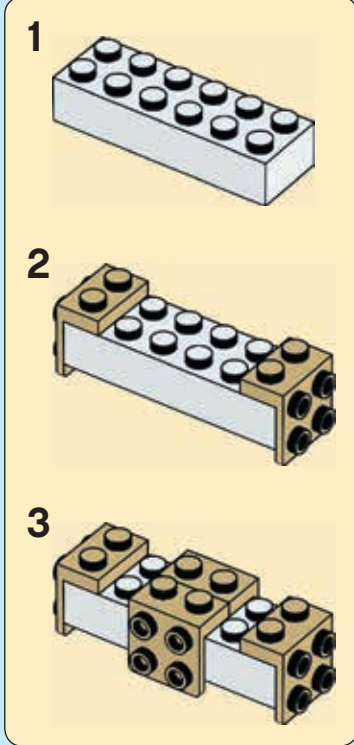
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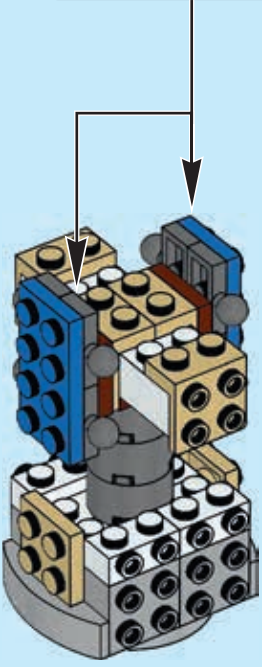
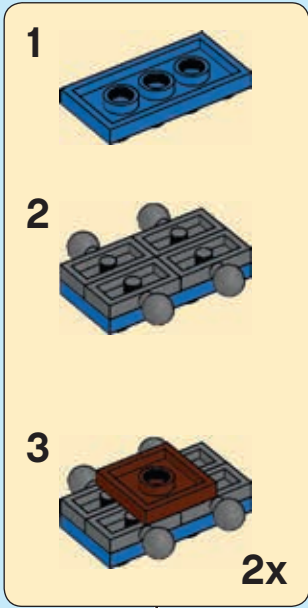


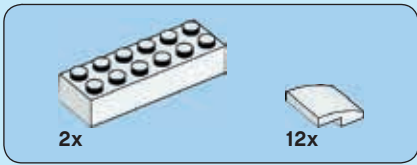
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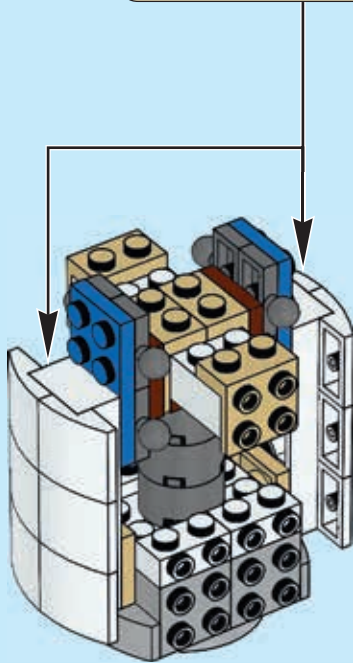
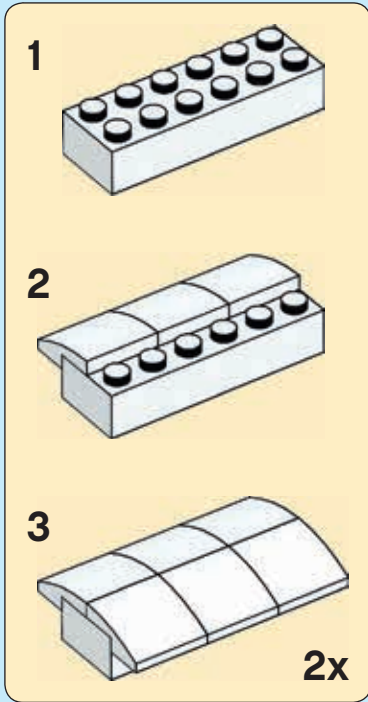


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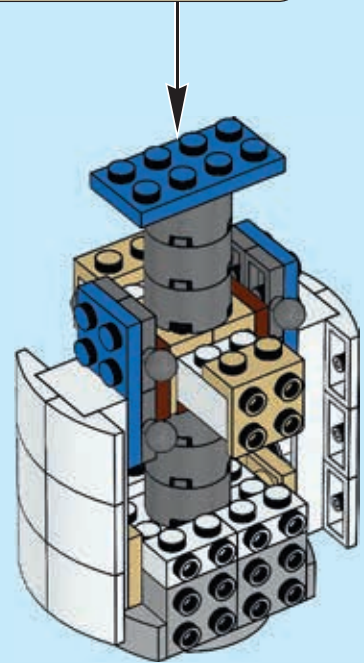
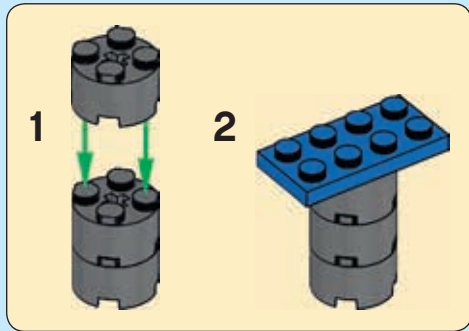




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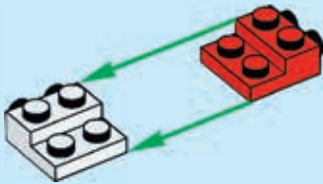


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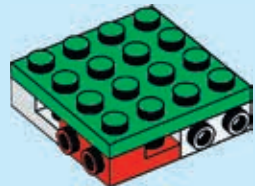
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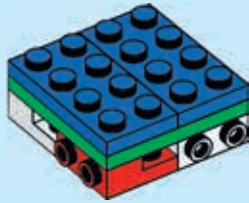


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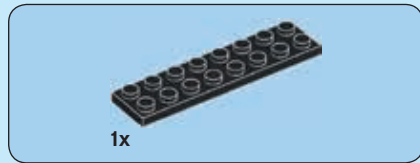
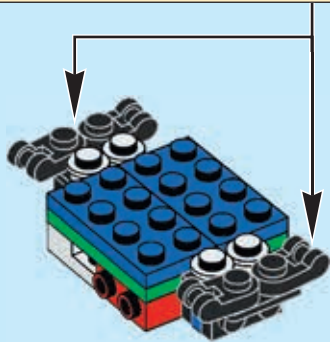
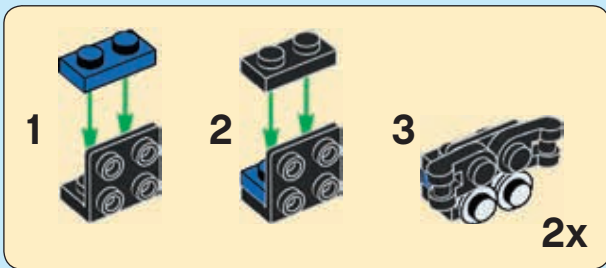




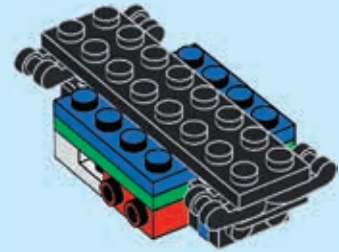
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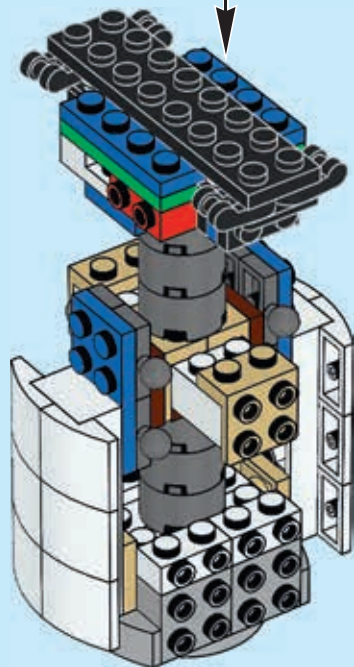
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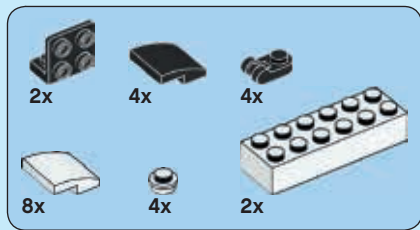


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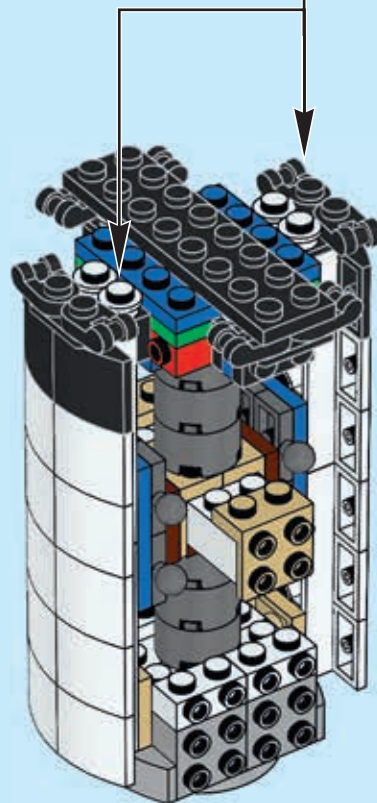
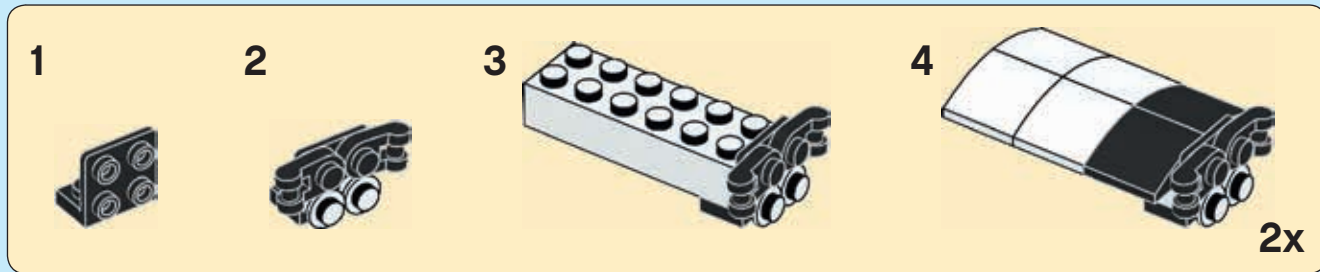


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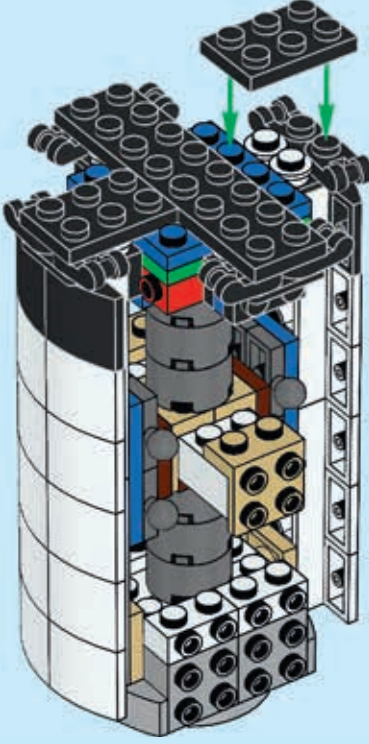


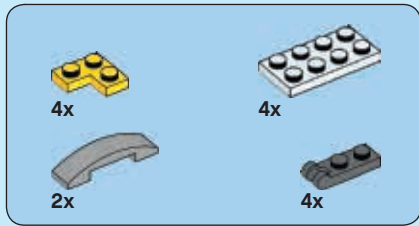
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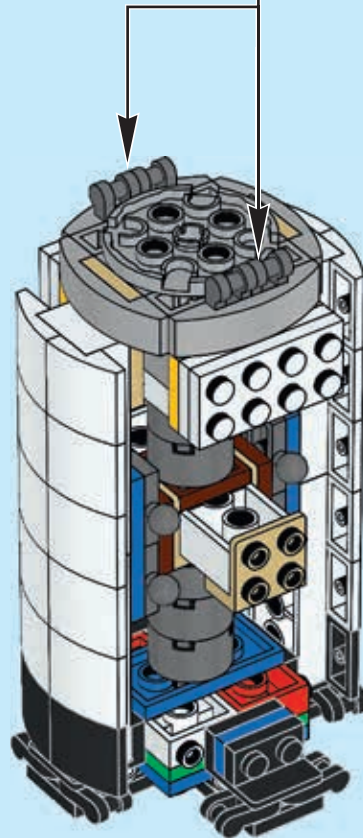
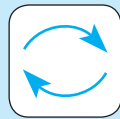
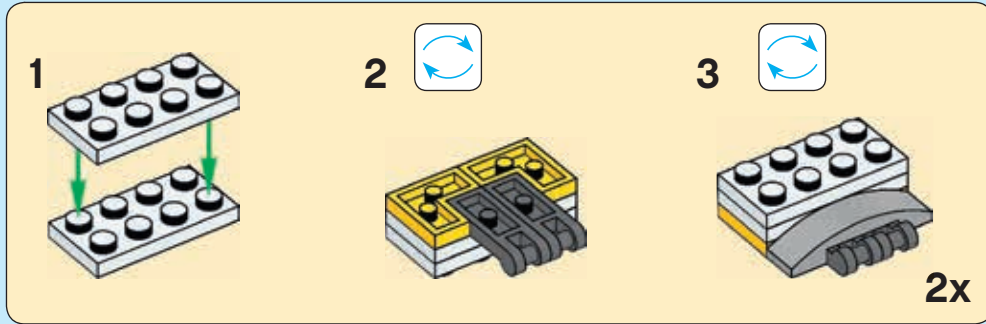


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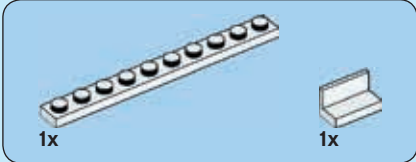


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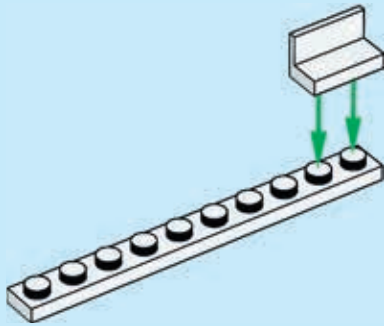
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1x

1x

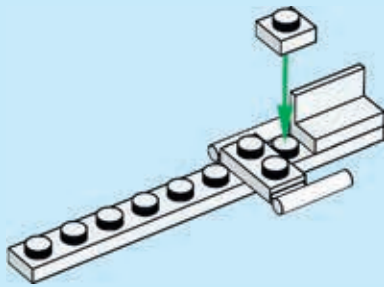
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1x

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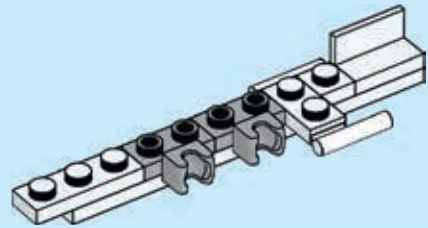
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1x

2x

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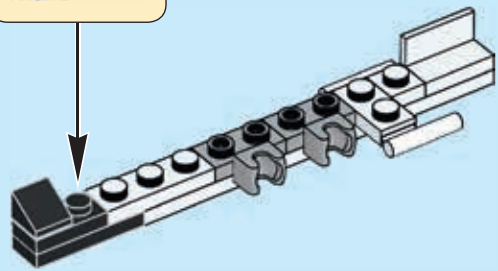
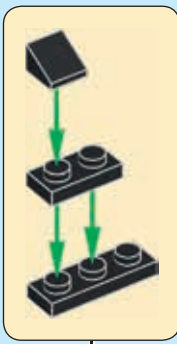


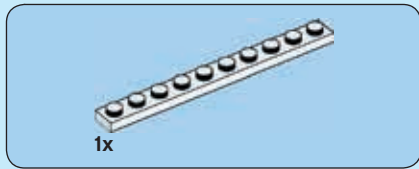
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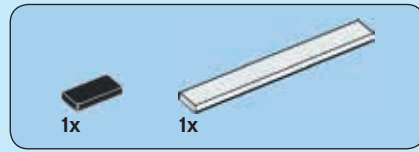
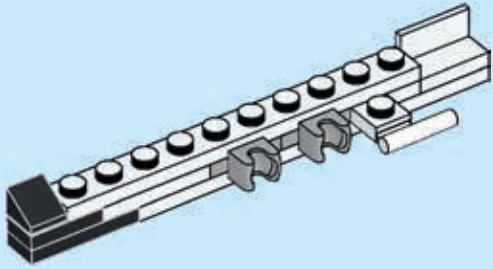
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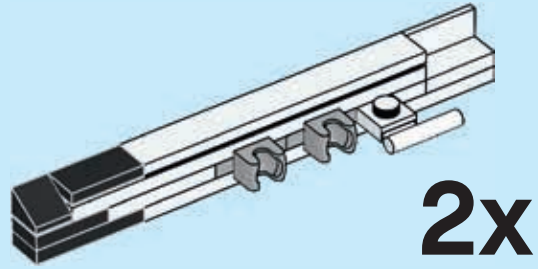




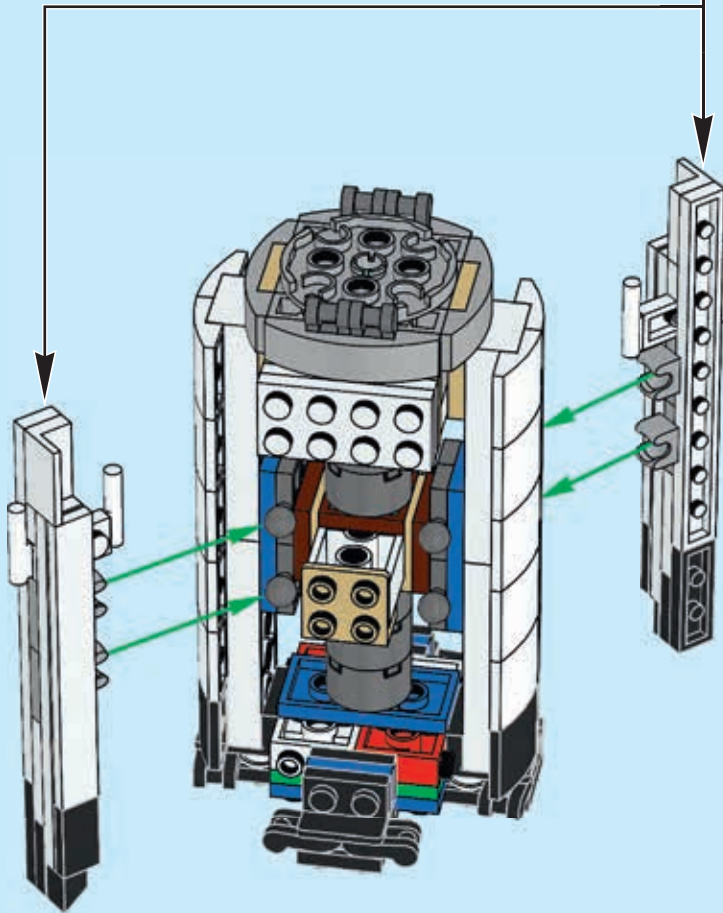
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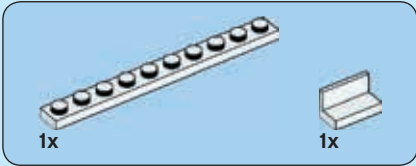


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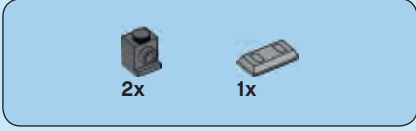
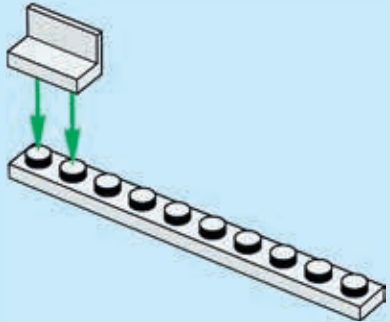


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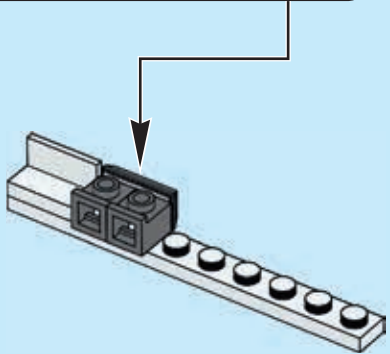
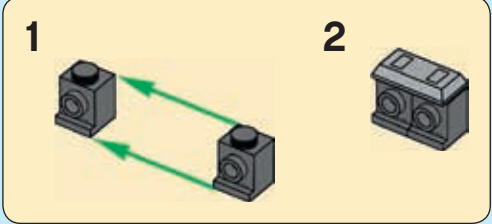




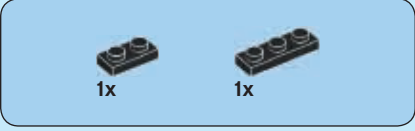
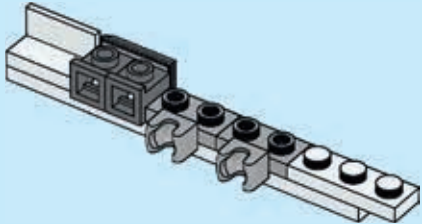
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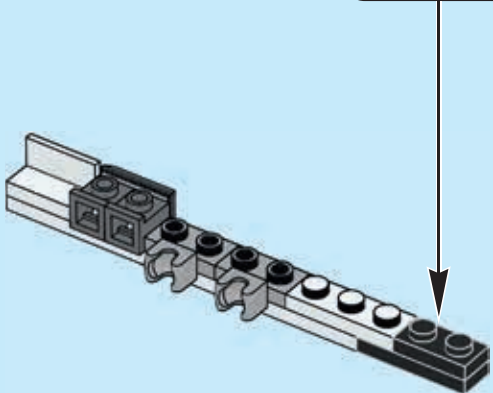
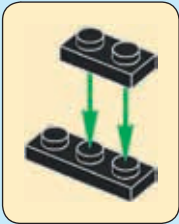
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274

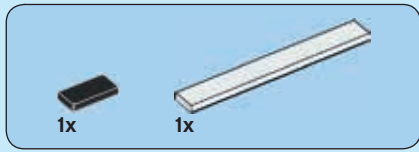
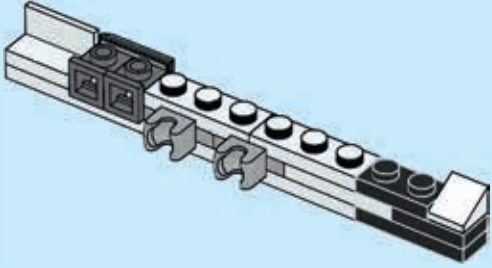


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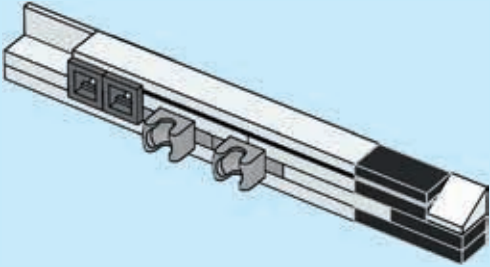




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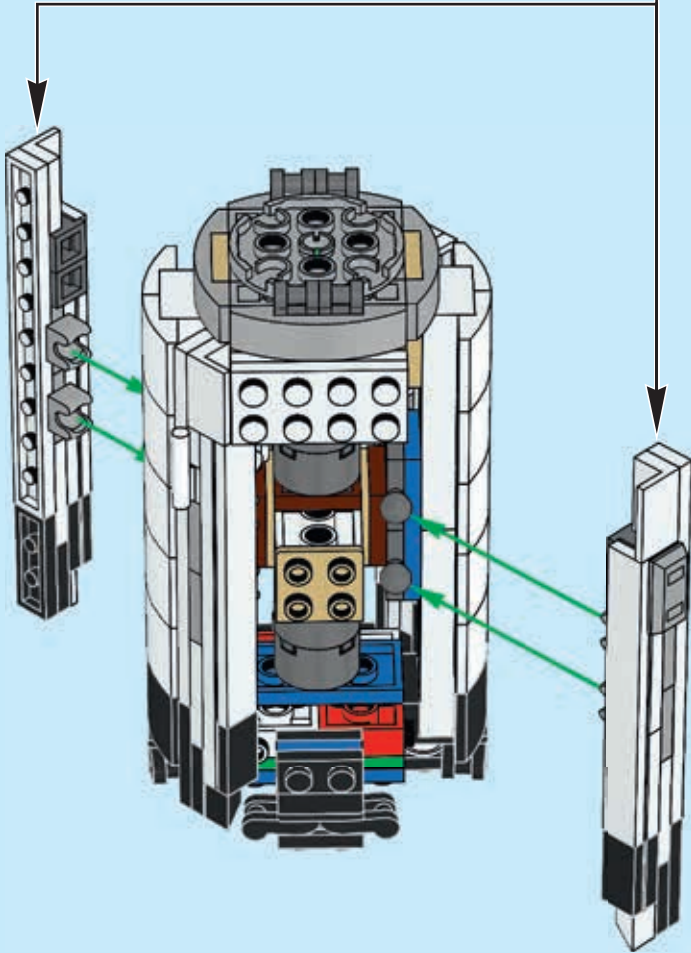


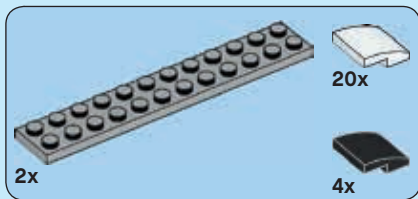
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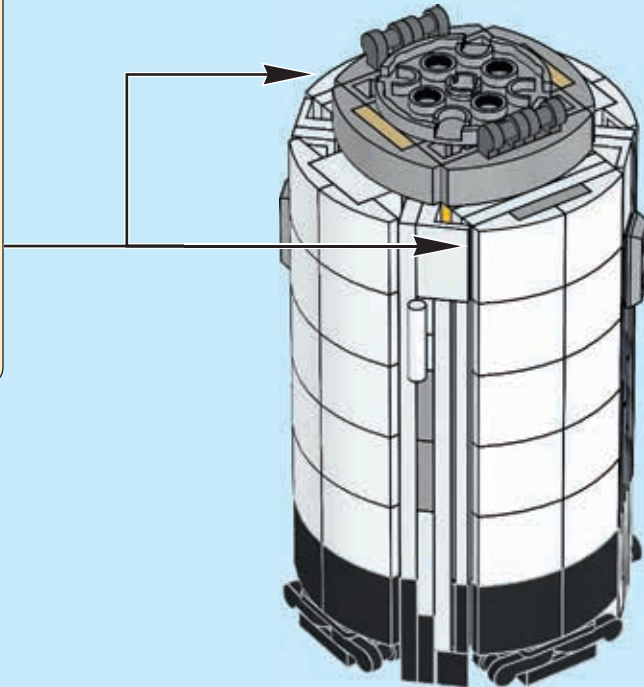
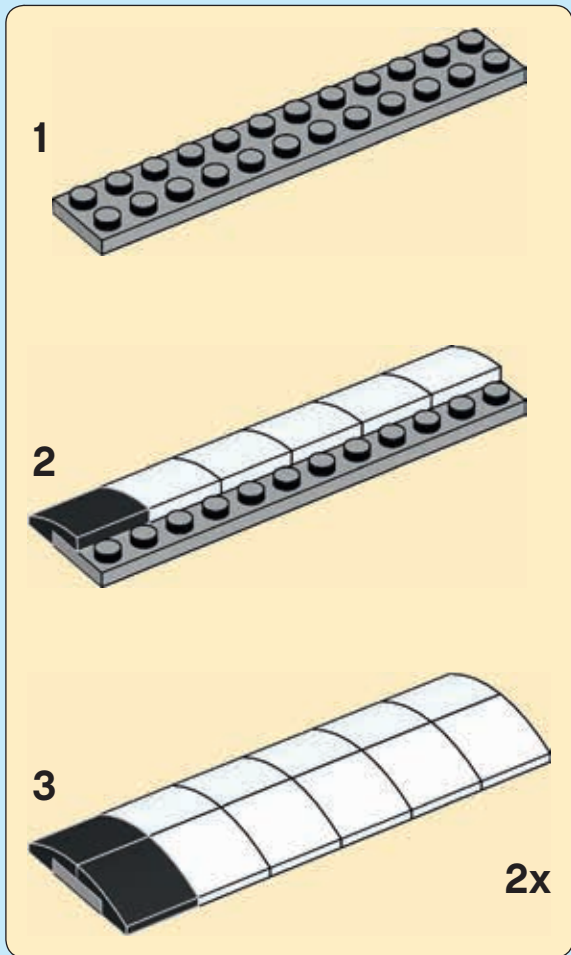
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278



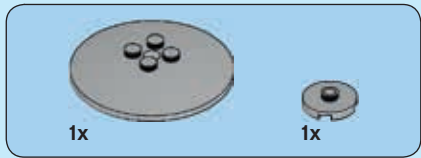
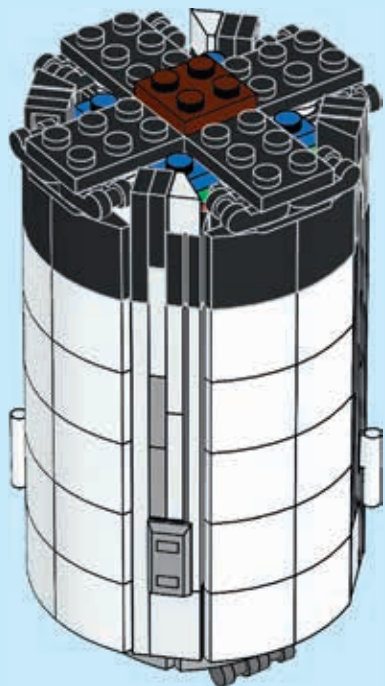
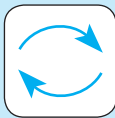


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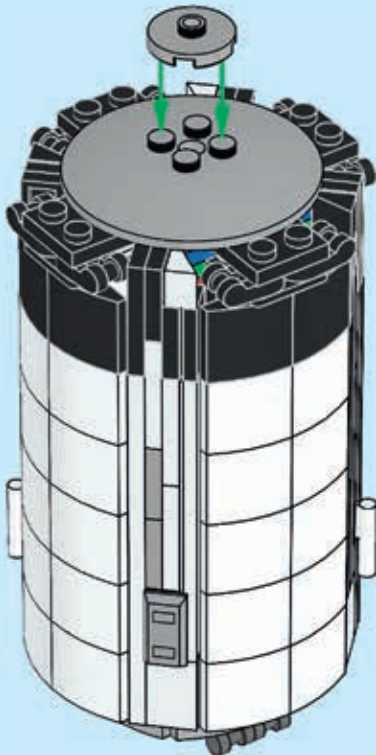


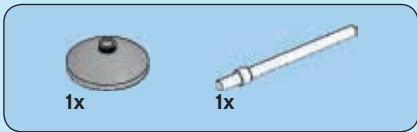


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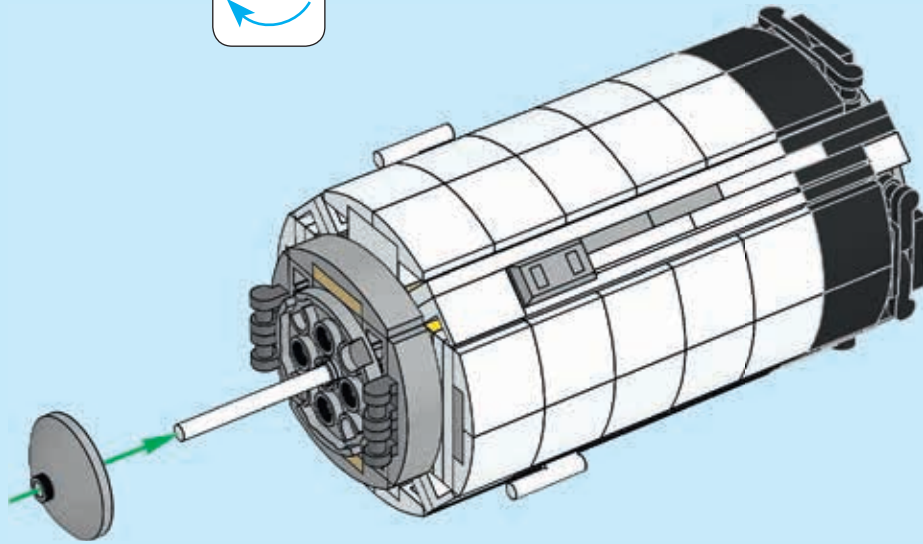
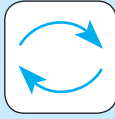


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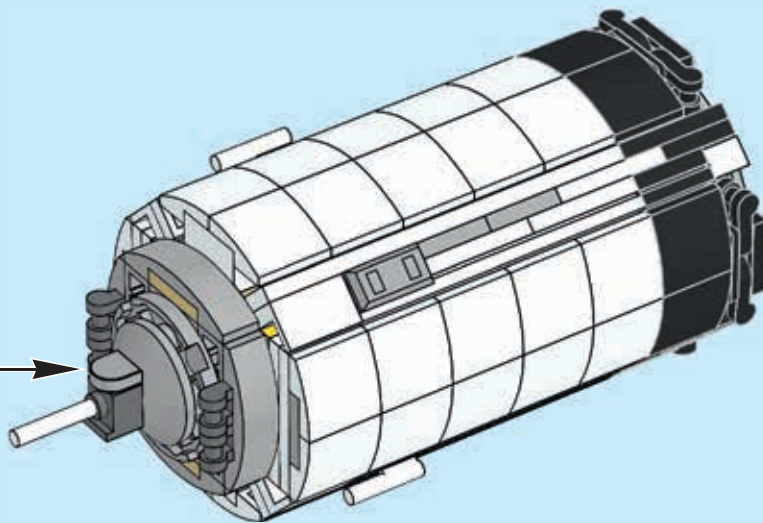
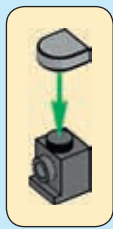




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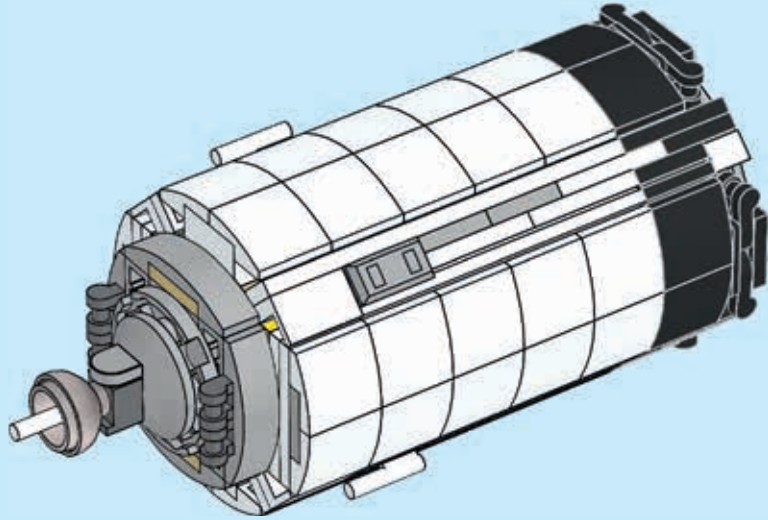
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284

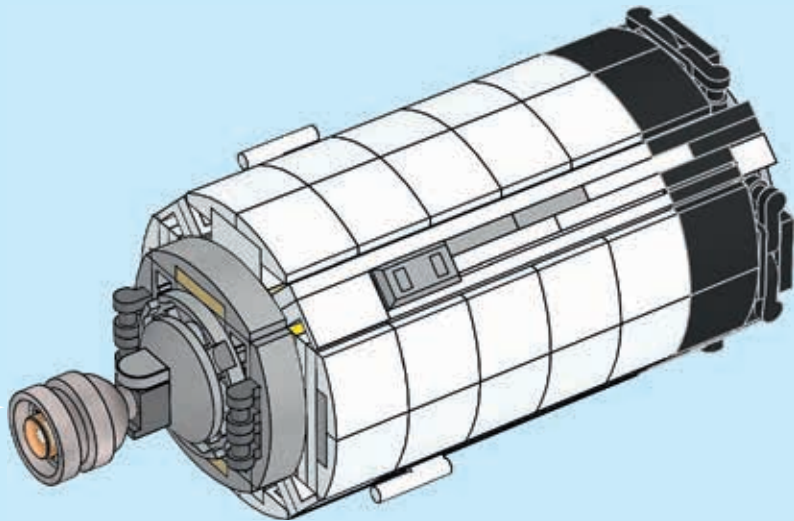


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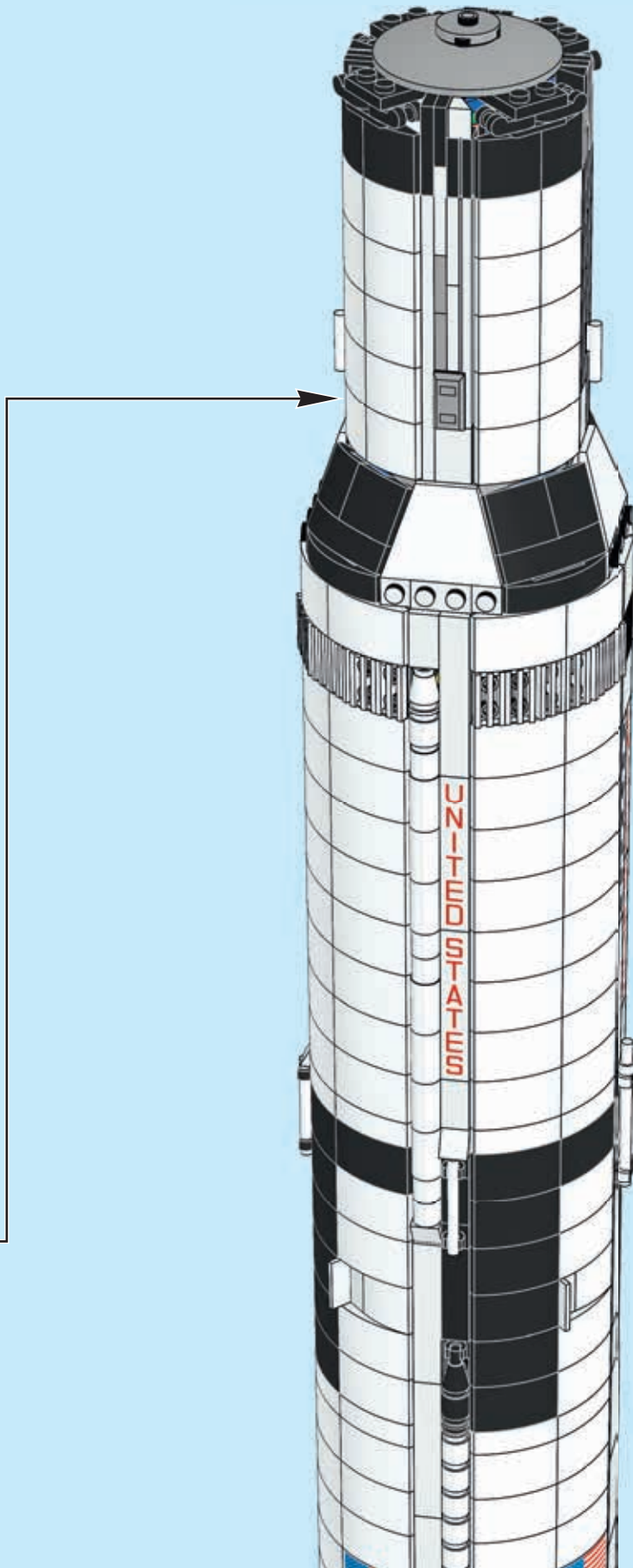


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285



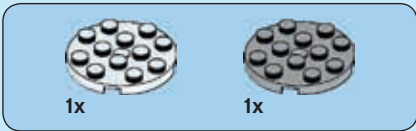
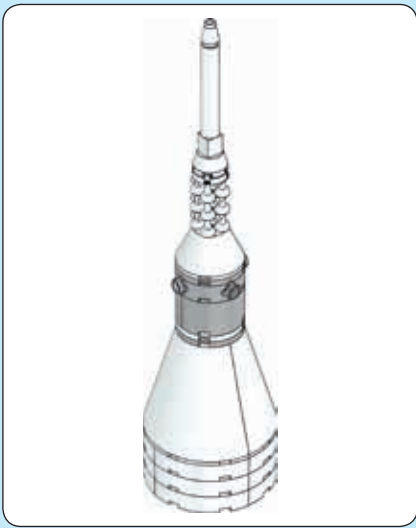
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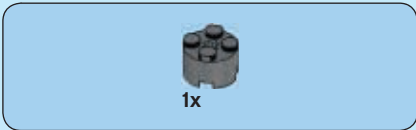


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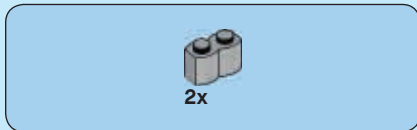
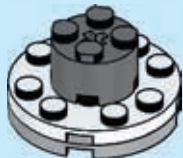




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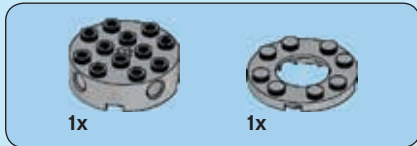
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289



290

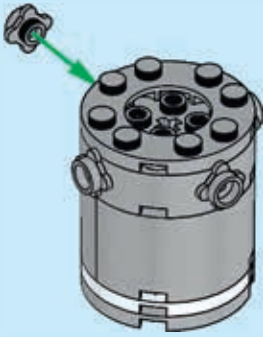


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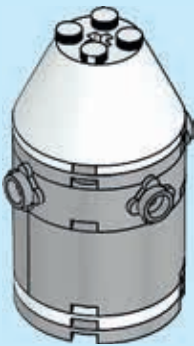


4x

292

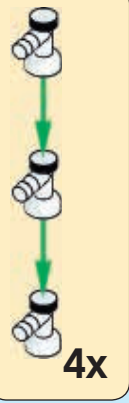
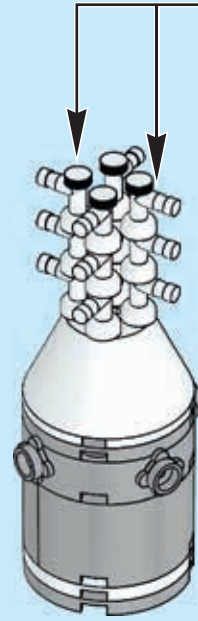


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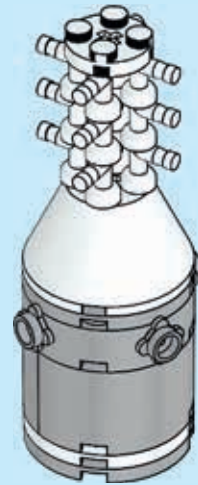
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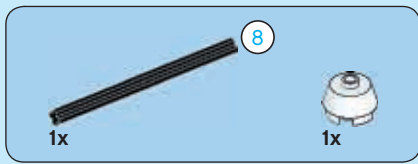
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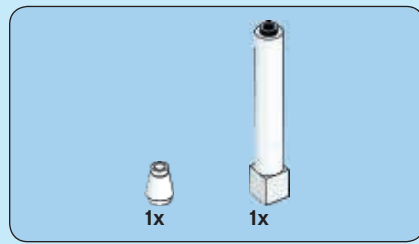
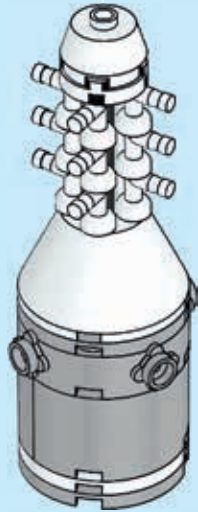
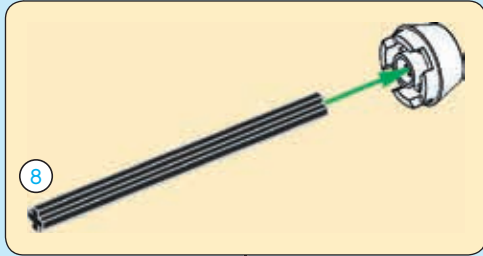
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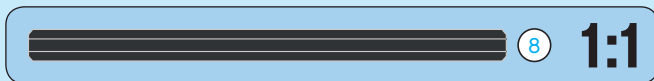
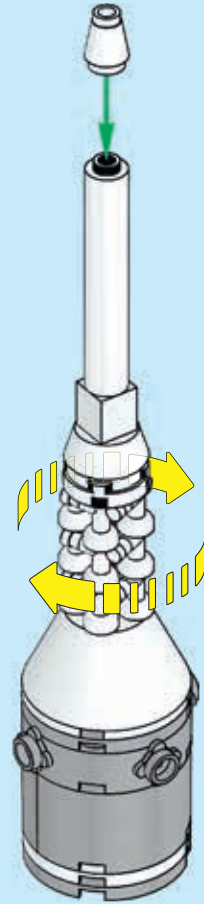


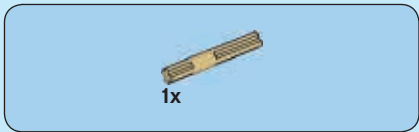


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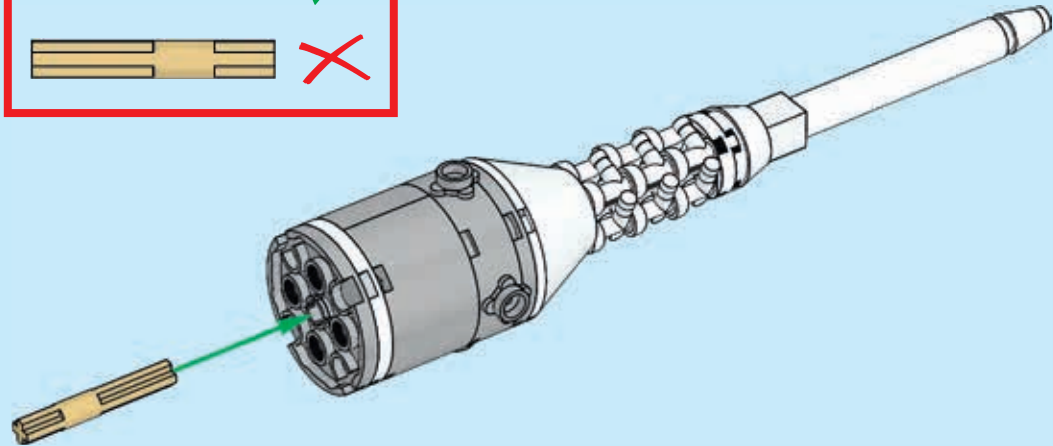
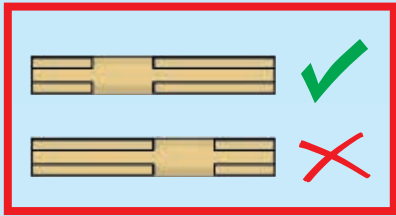


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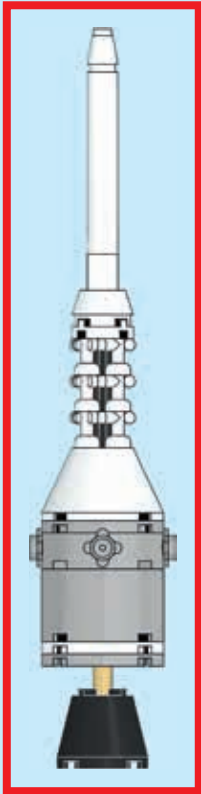
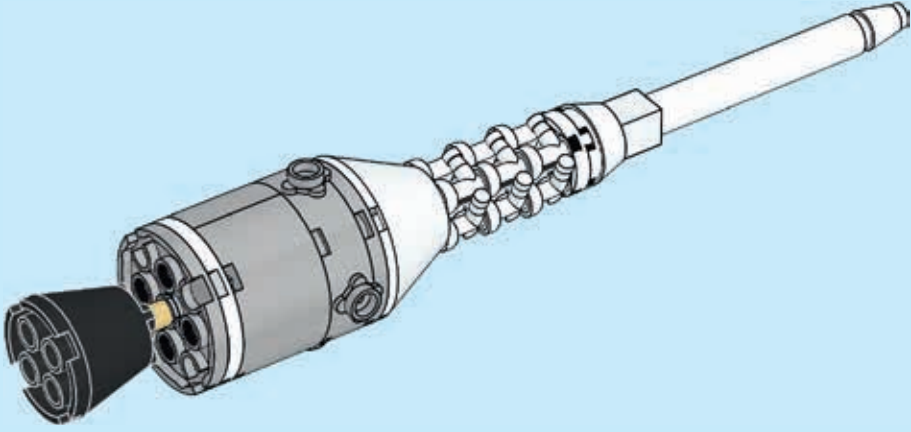


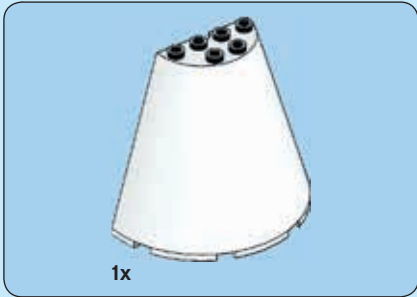


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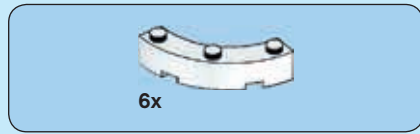


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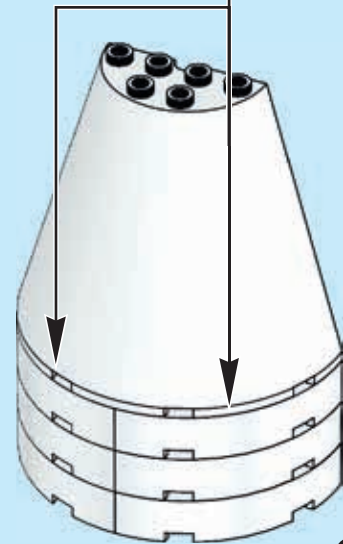
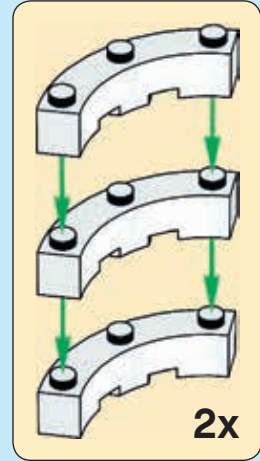




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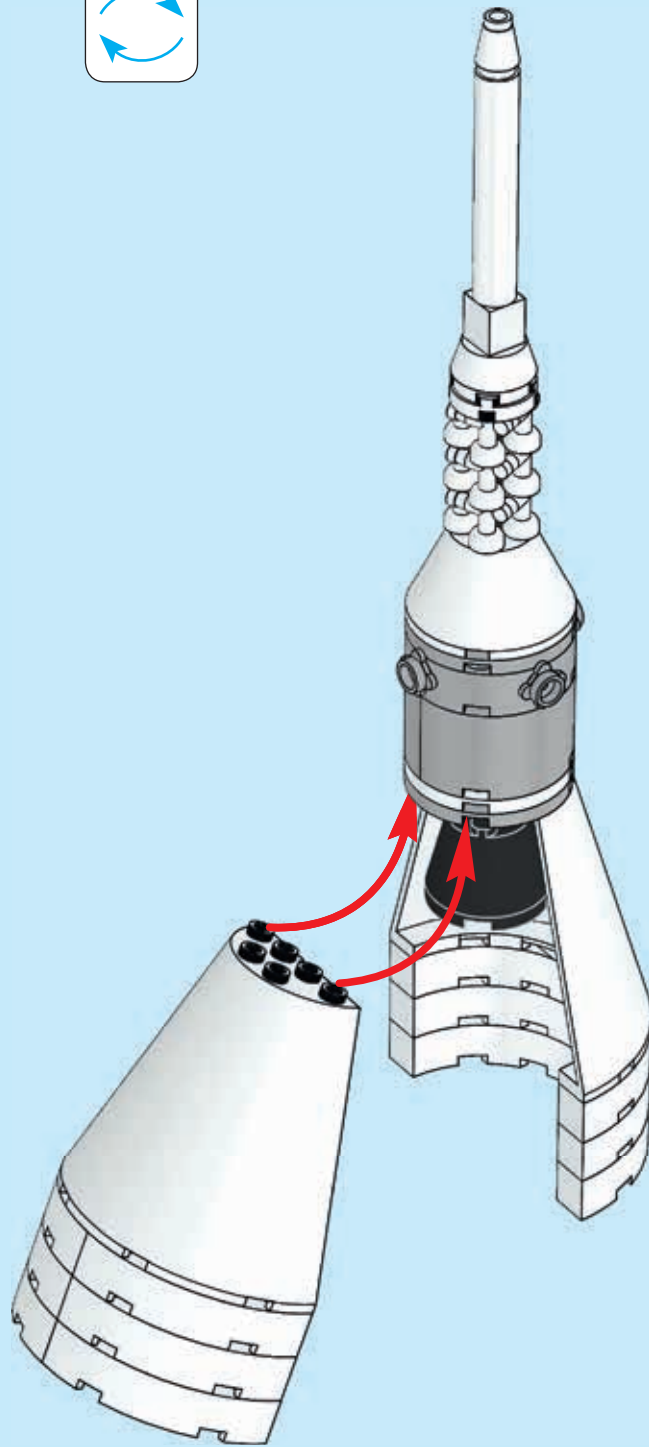
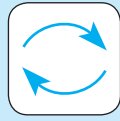


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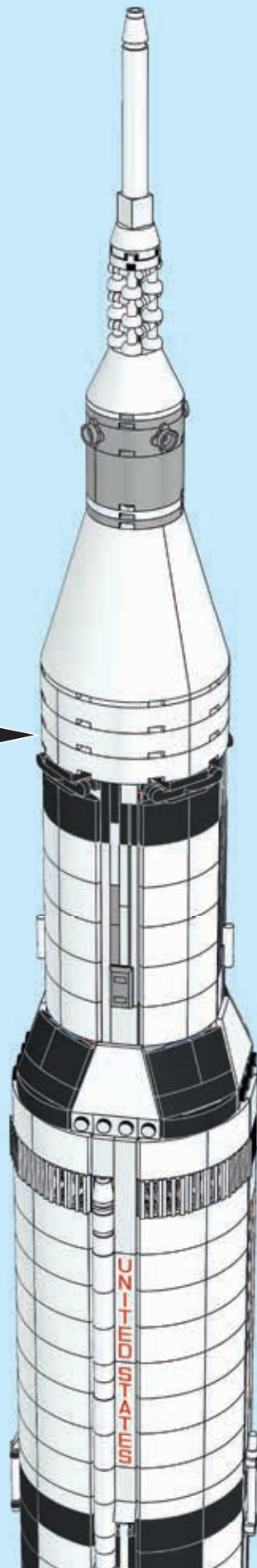


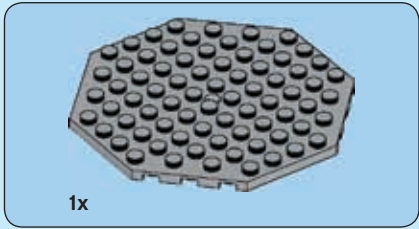
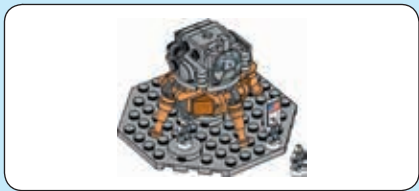
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302

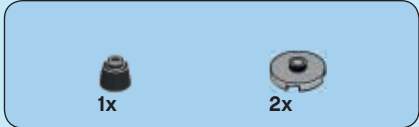
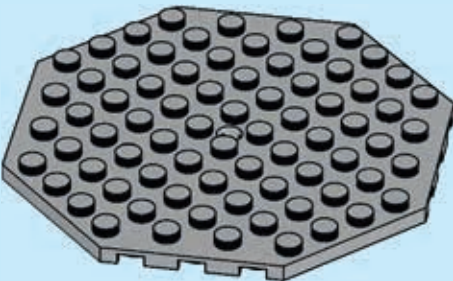


303

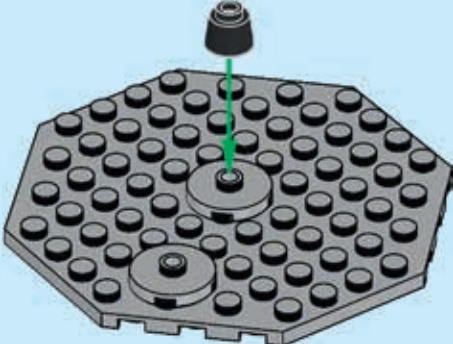




304

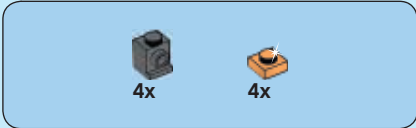


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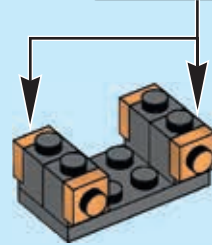
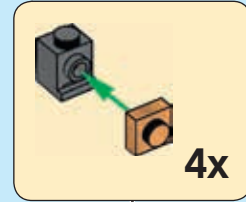




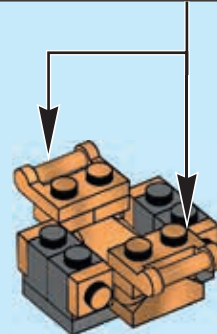
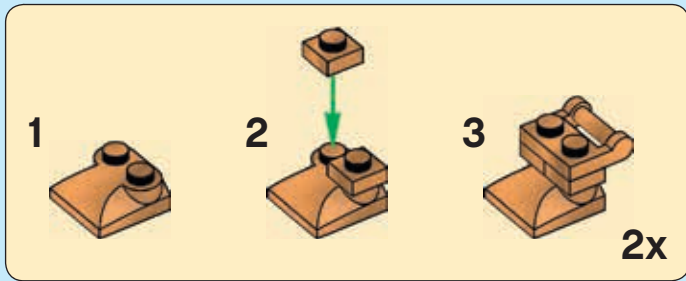
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307

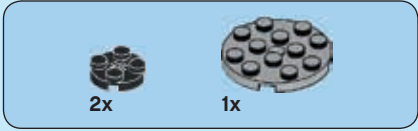
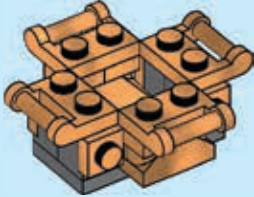


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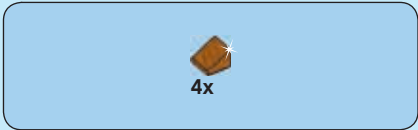
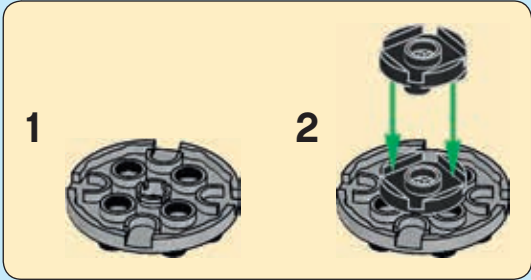




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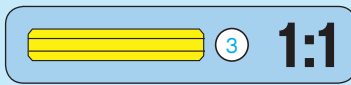
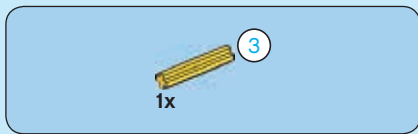


310



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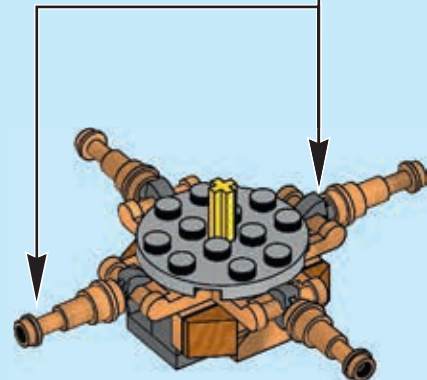
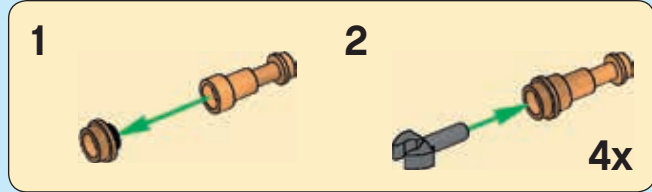




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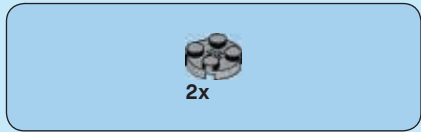
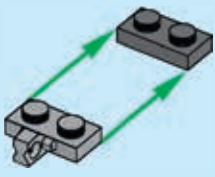


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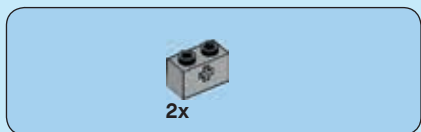
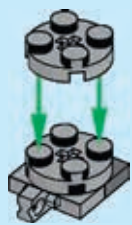




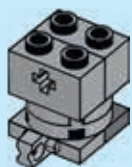
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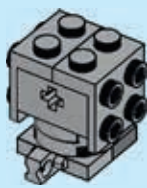
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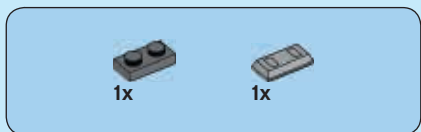
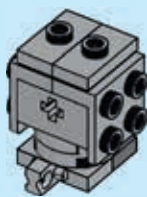
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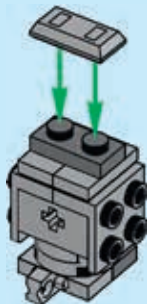
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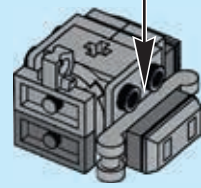
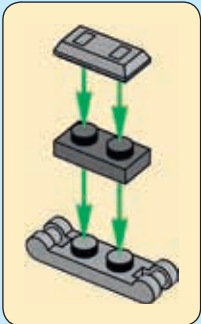


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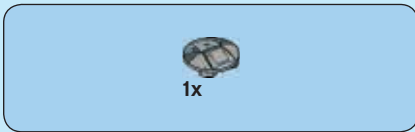
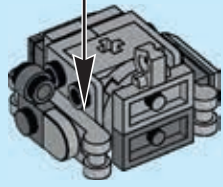
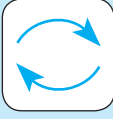
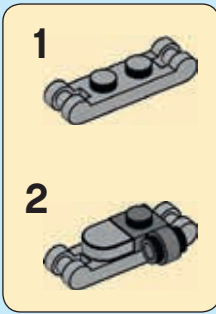




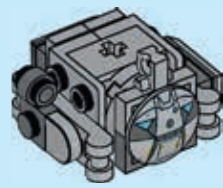
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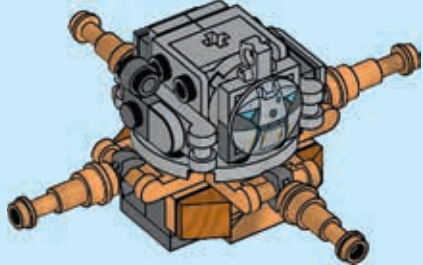
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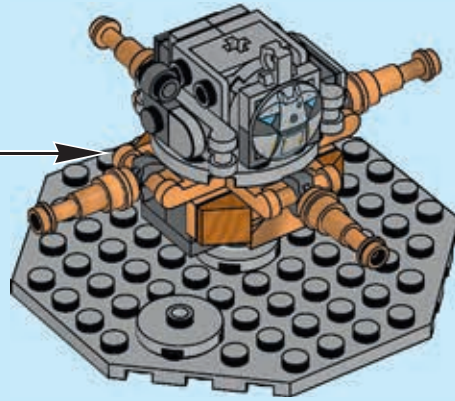
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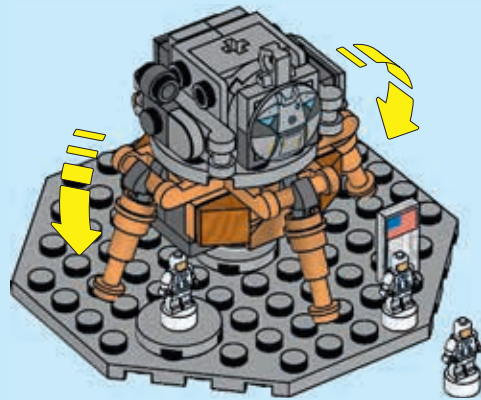


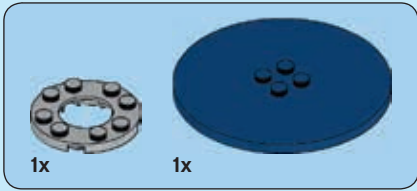
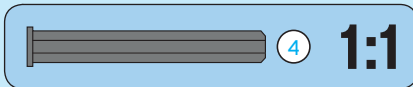
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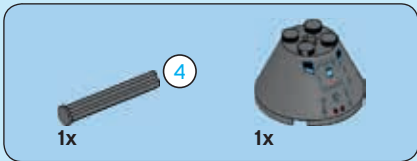
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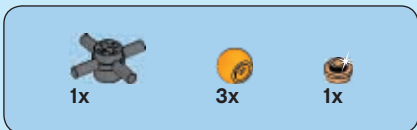
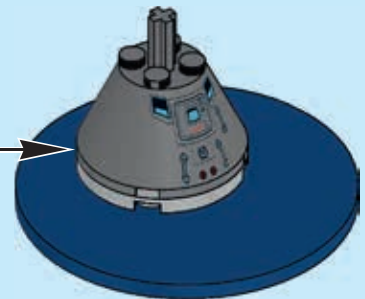
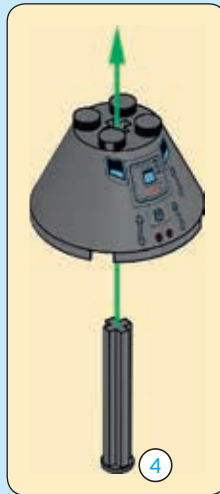




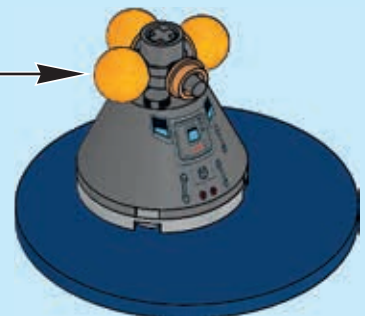
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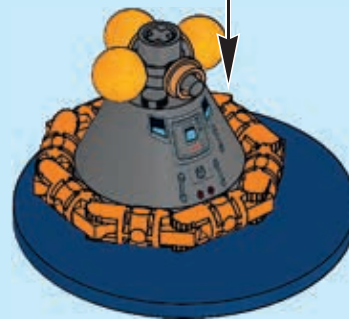
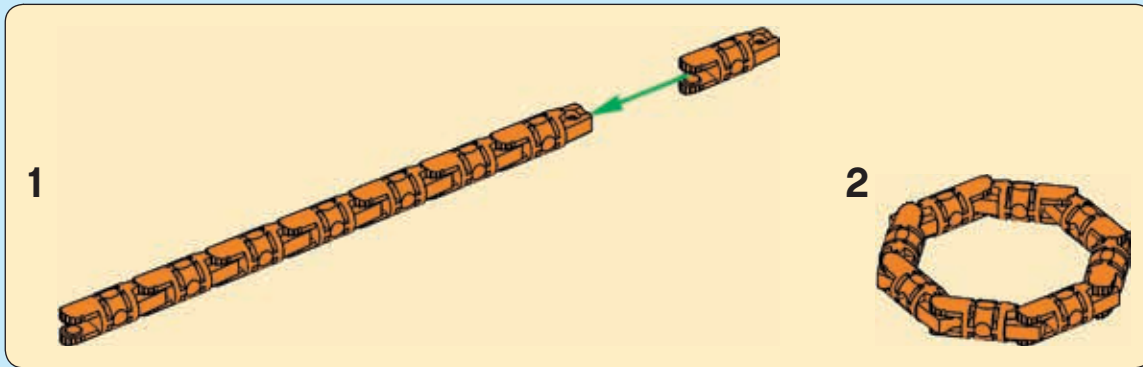
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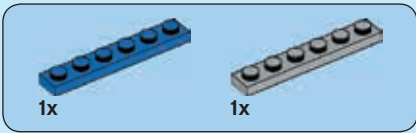
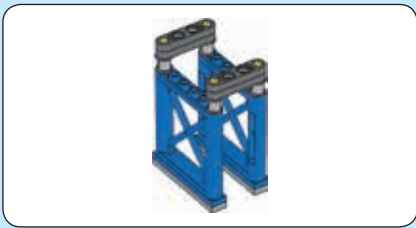




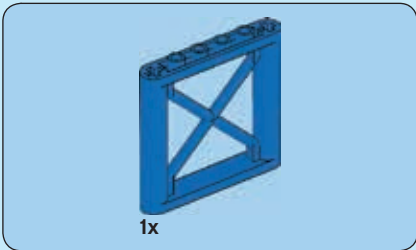
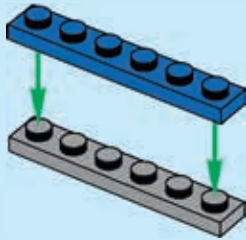
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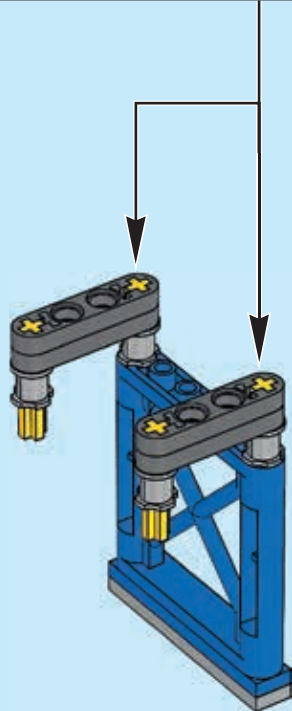
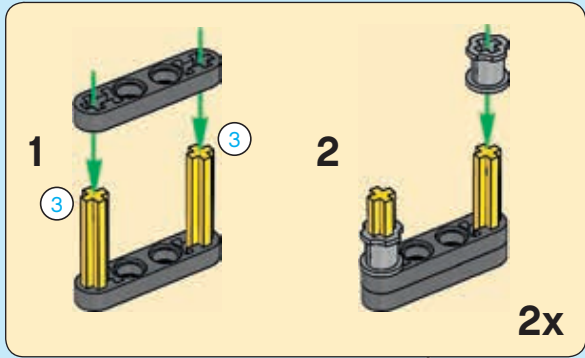
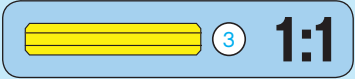
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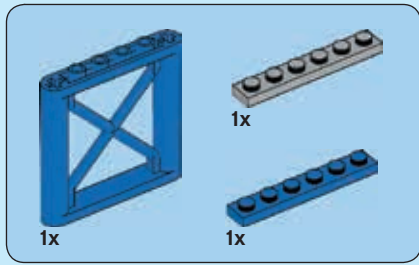


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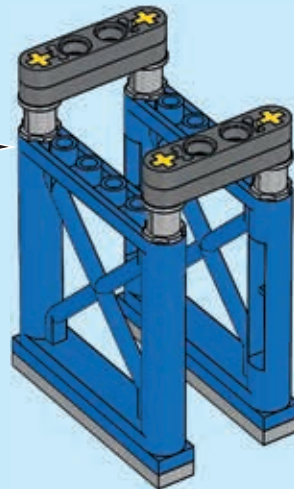
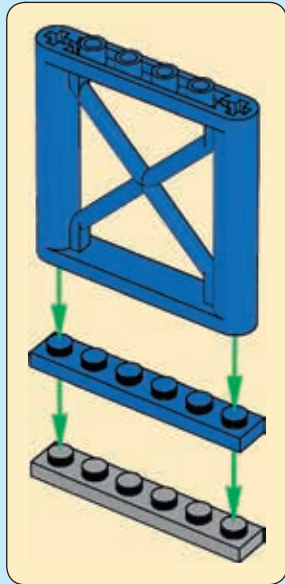


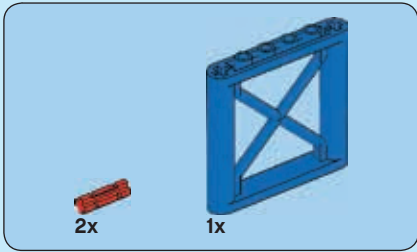
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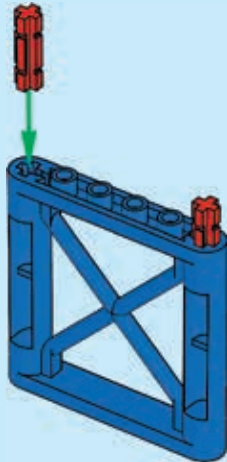


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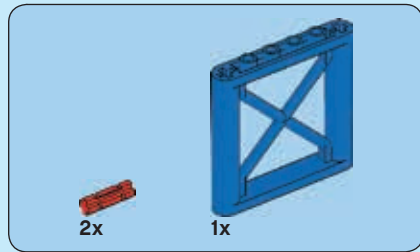
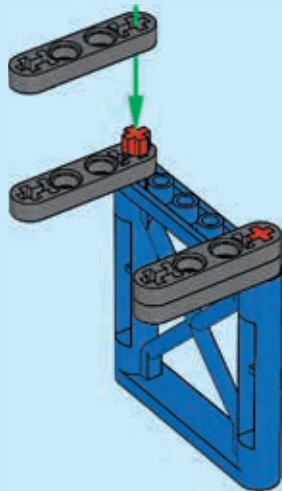




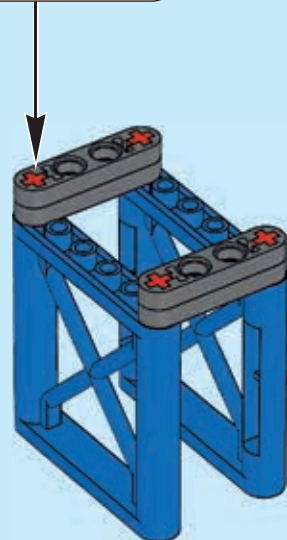
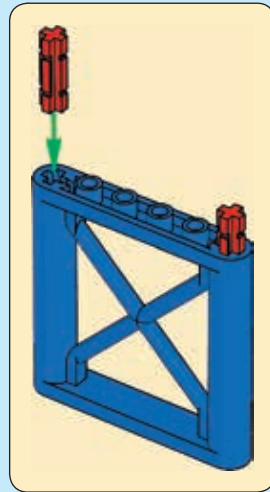
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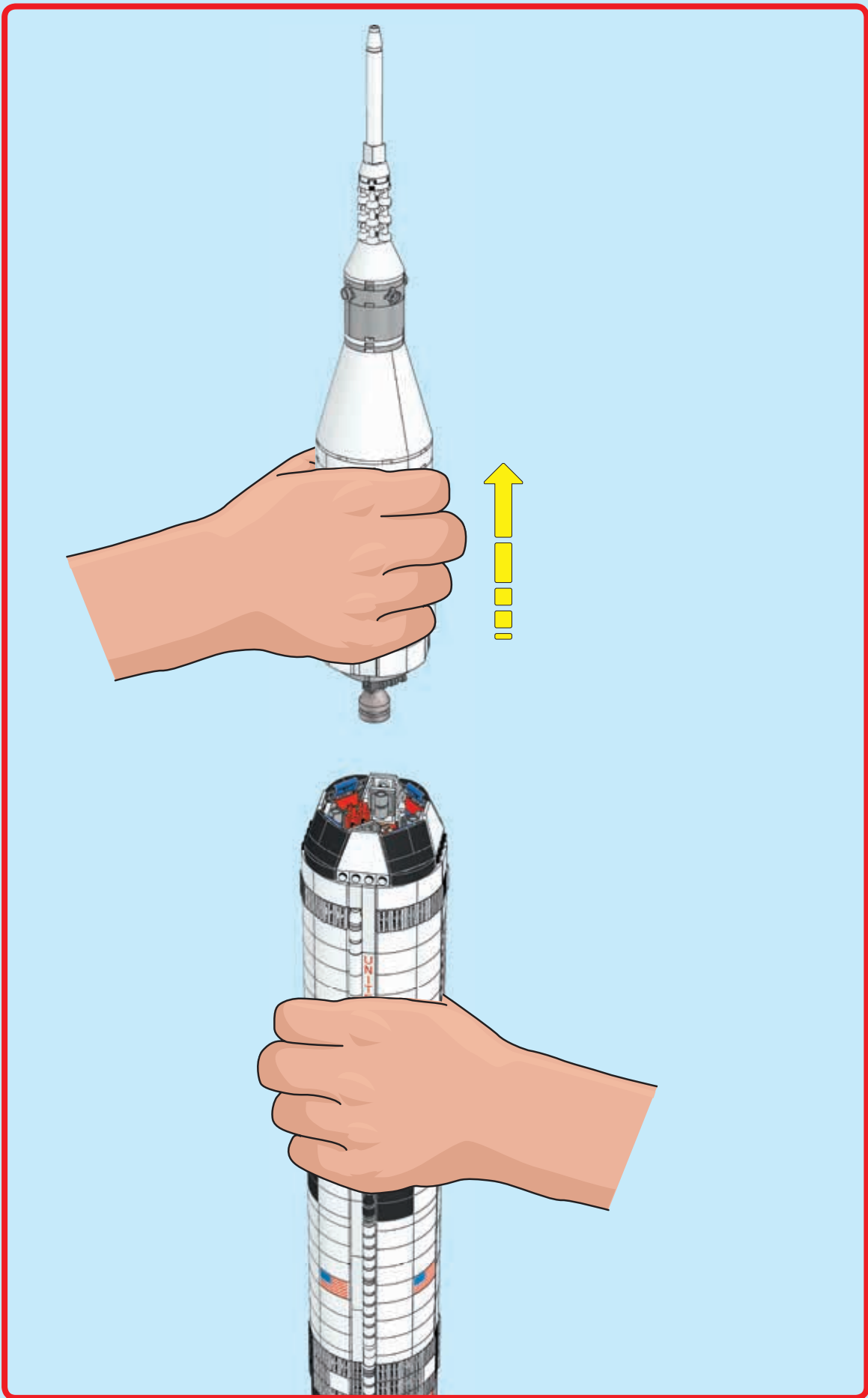
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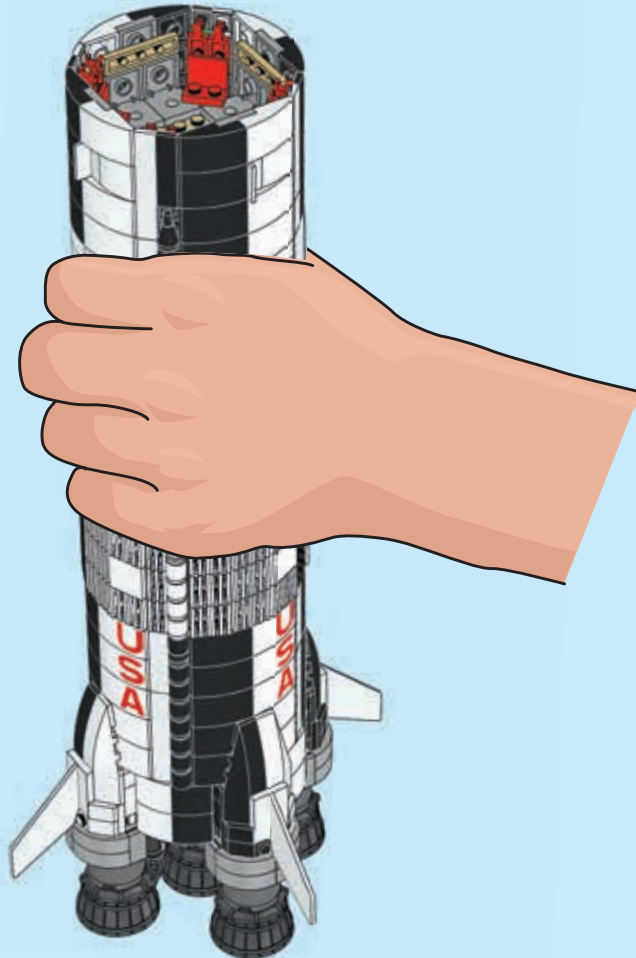
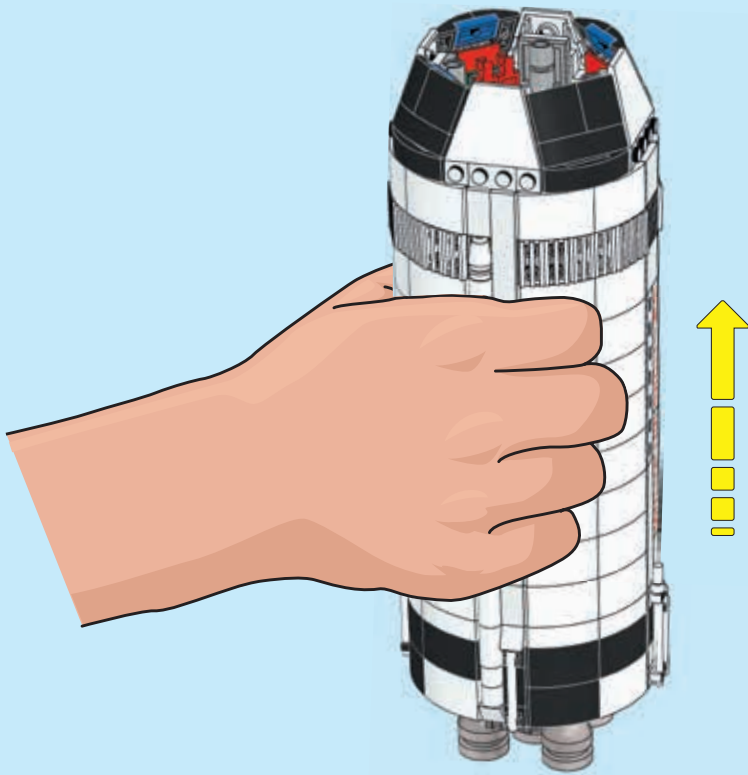


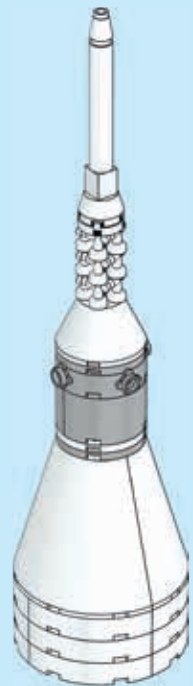
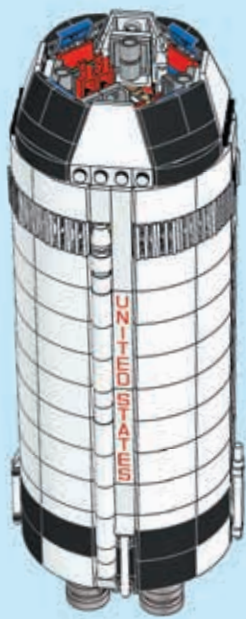
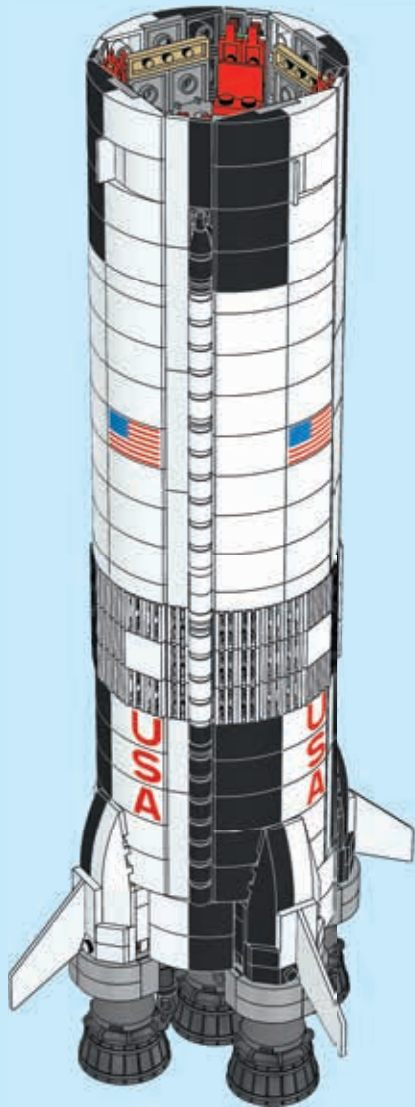
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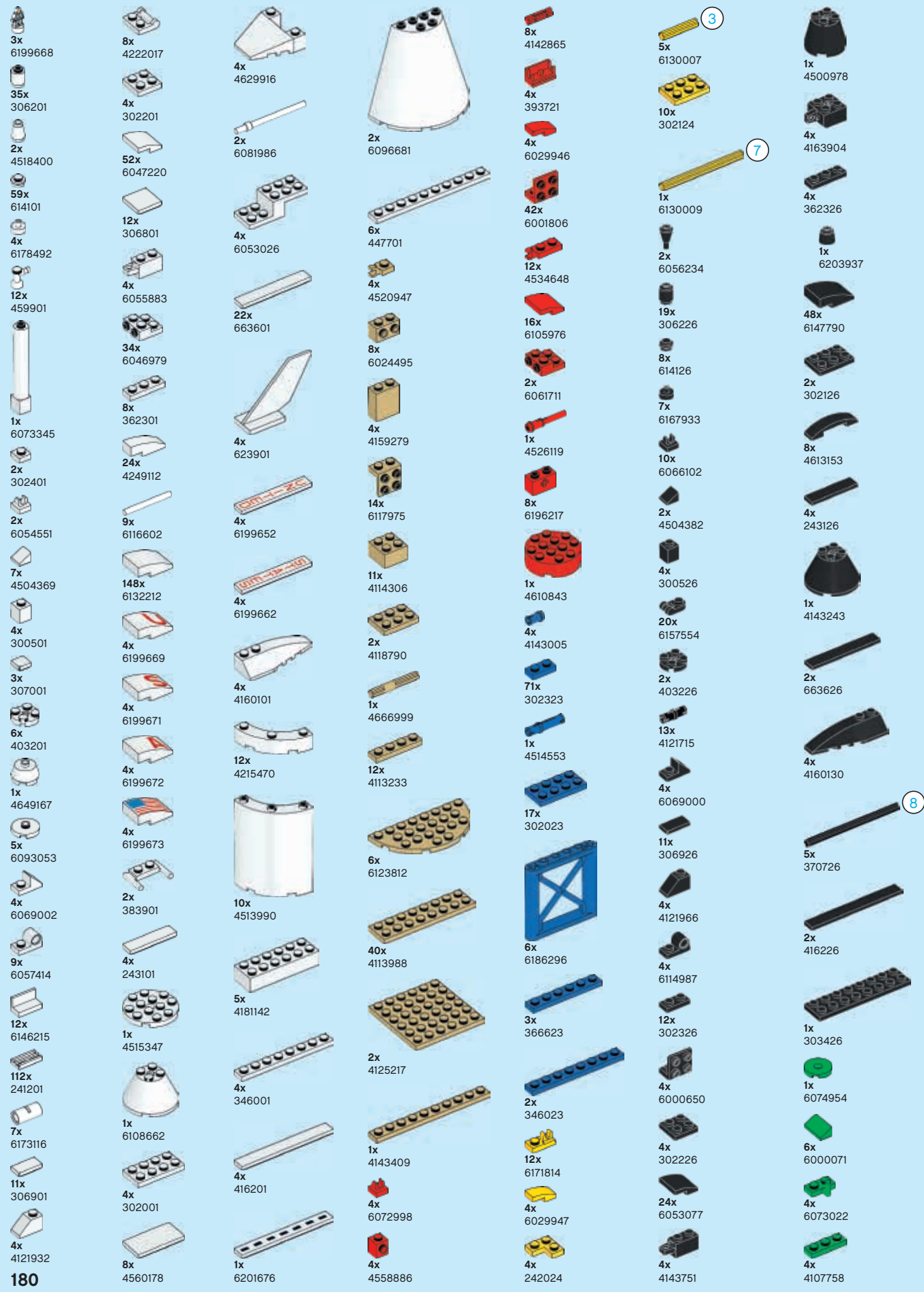
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8



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4



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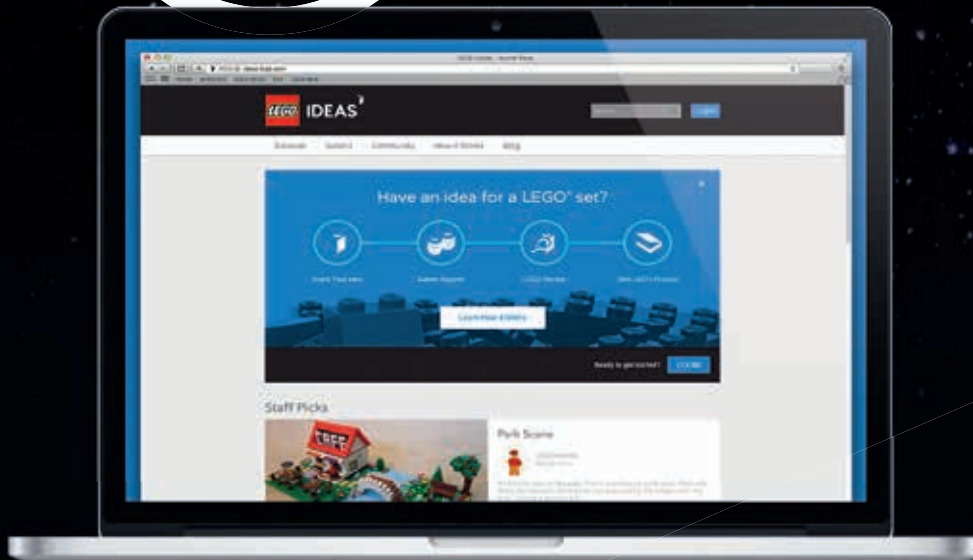
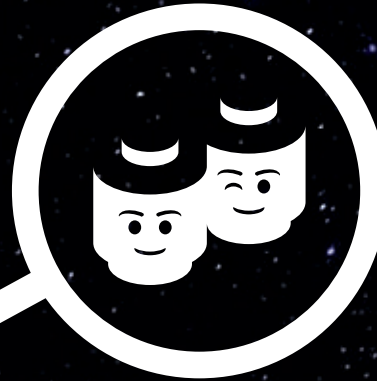
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