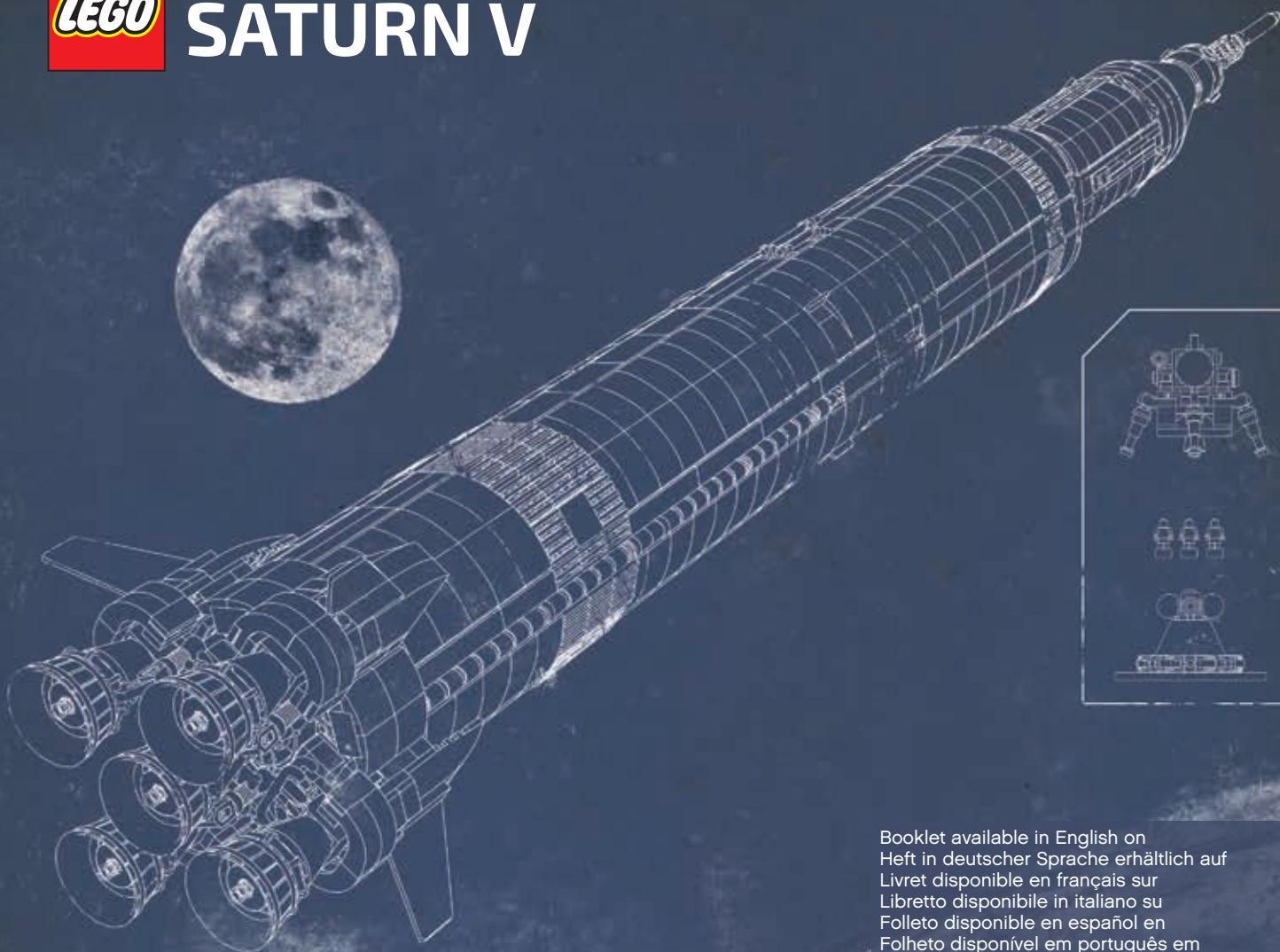




NASA APOLLO  
SATURN V



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](http://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.

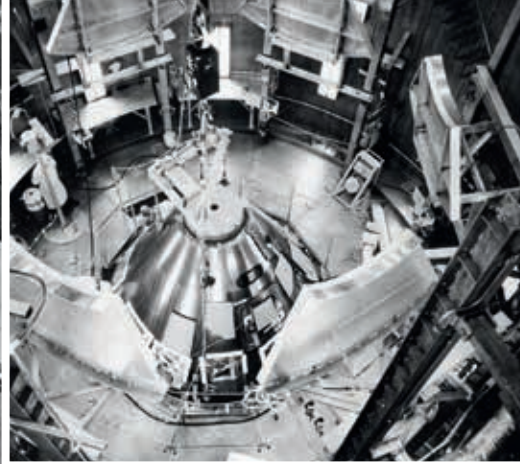
The Apollo program consisted of 11 spaceflights. The first two missions, Apollo 7 and 9, were Earth-orbiting missions used to test the Command and Lunar Modules. The next two, Apollo 8 and 10, tested various components while orbiting the Moon, also taking photographs of the lunar surface. While Apollo 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



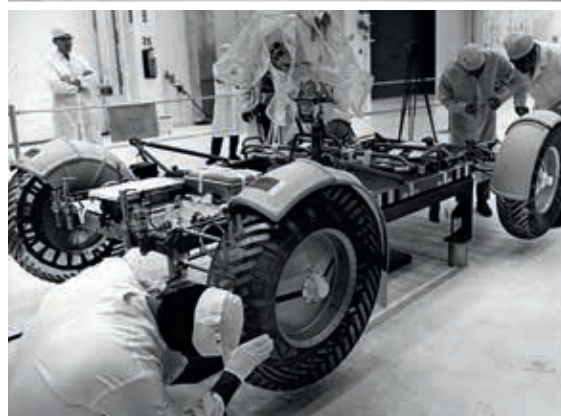
Workers prepare the S-IC first stage  
in the transfer aisle of the Vehicle  
Assembly Building



Photographers film the Apollo 11 rollout  
Pre-flight training



Kennedy Space Center technicians  
inspect the LRV.





# Saturn V

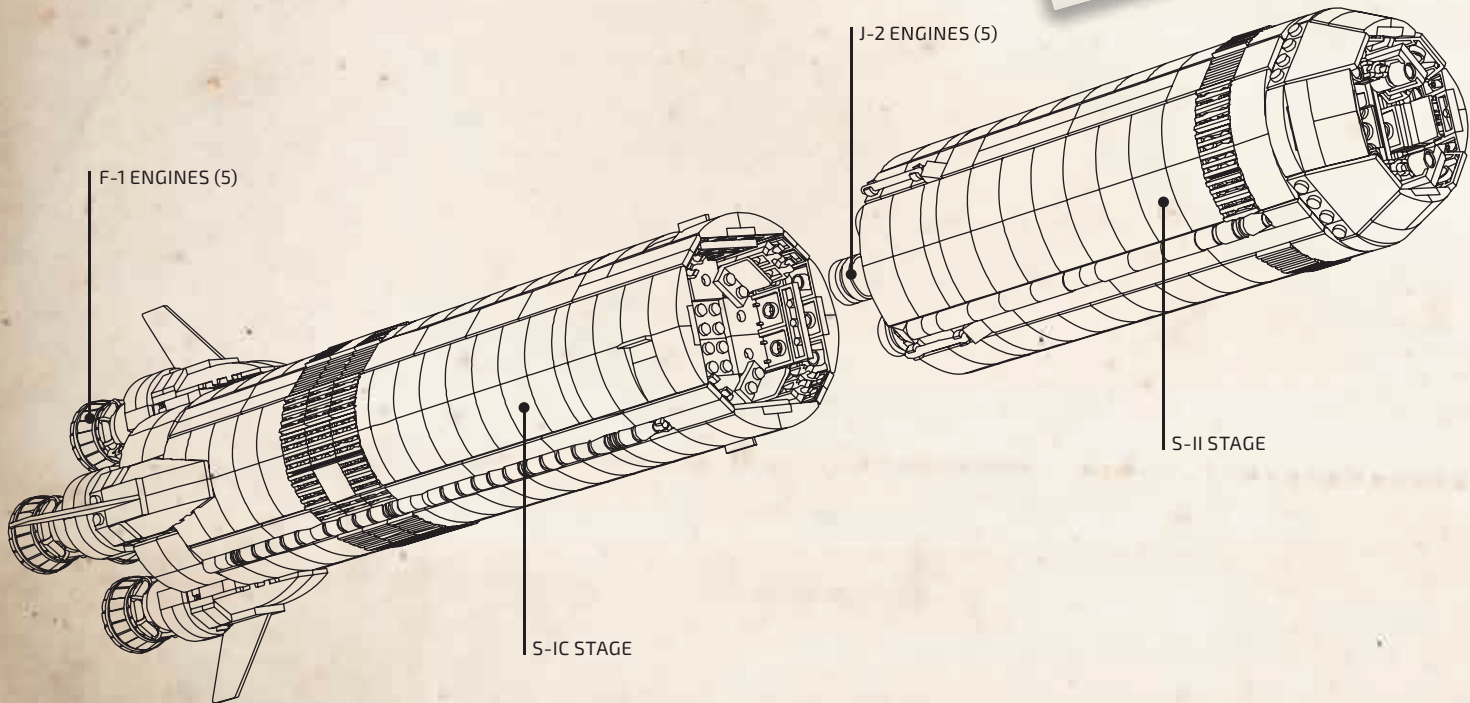
Saturn V was the most powerful rocket that had ever flown successfully and was used in the Apollo program in the 1960s and 1970s. The rocket was 363 ft. (111 m) tall and weighed 6.2 million lbs (2.8 million kilos) when fully fueled for liftoff. The Saturn V used for the later Apollo missions had three 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

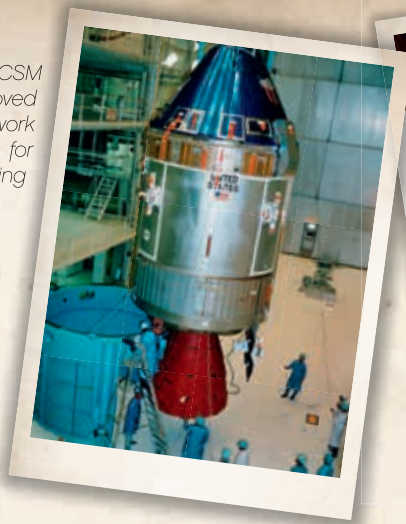


Mating of the Apollo 11 spacecraft to the Saturn V launch vehicle

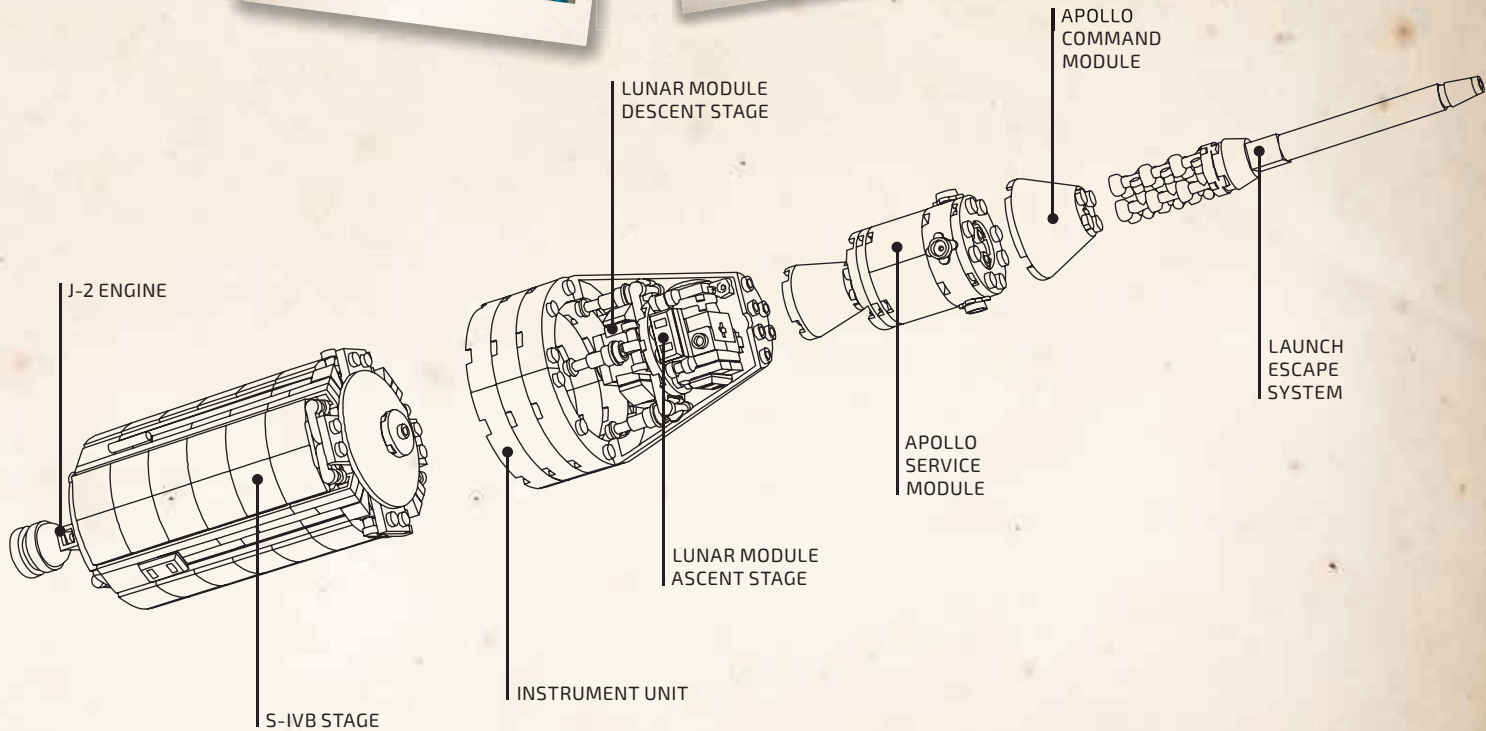




The Apollo 11 CSM being moved from work stand for mating



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.



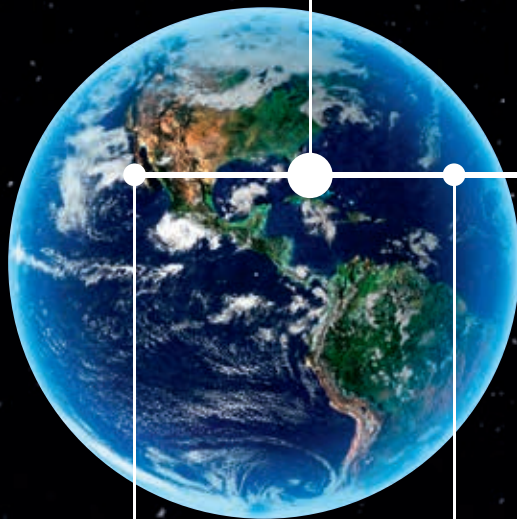
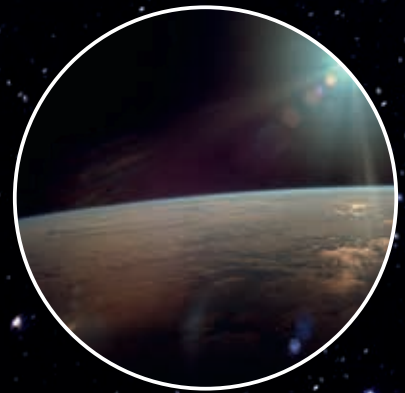
The CSM then turns around in preparation for docking with the Lunar Module (LM)



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.

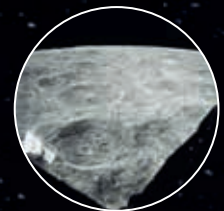
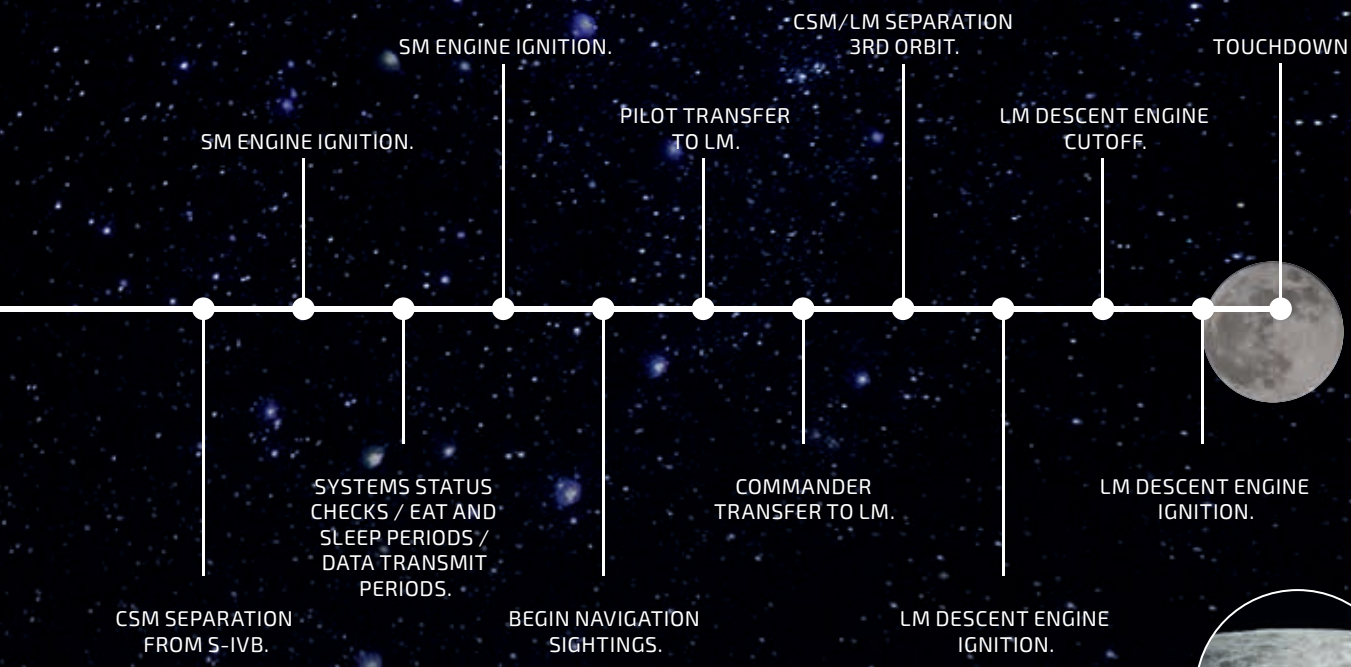
S-IVB ENGINE CUTOFF.

APOLLO SATURN V  
ROLLS OUT OF THE  
MASSIVE VEHICLE  
ASSEMBLY BUILDING

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









# 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*

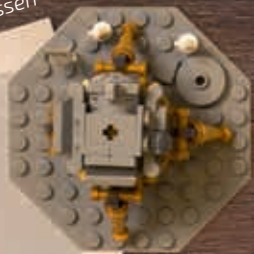
*of us just abandoned the project for a few weeks and came back to it later; however, thanks to the fact that it is a collaborative project, it was always the case that one of us continued making progress on the project and re-motivated the other. All in all, we would say it took us about a year to complete."*

*"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

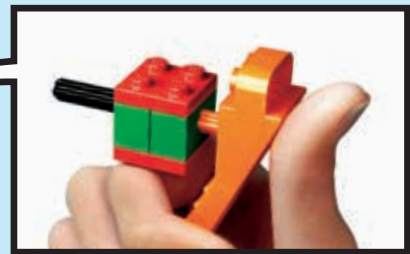
Michael Psiaki, Carl Thomas Merriam and Austin William Carlson are all full-time LEGO® designers and avid space enthusiasts, so this was a project they very much wanted to be a part of. As Michael explains:

*"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."*

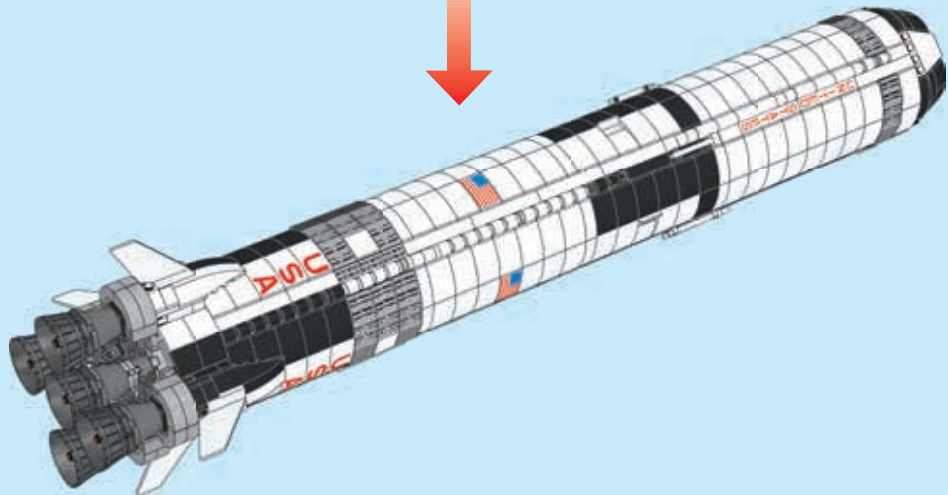
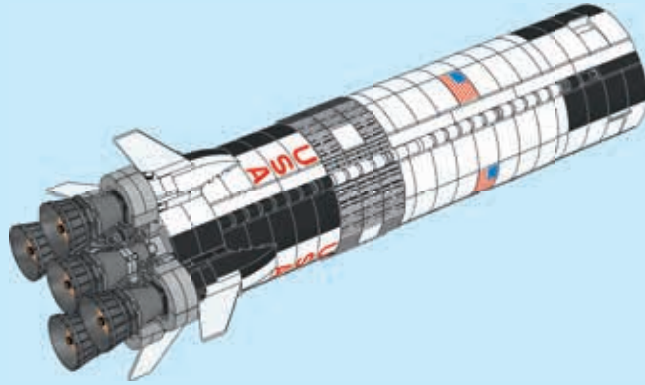
*"We were amazed by how big the actual model was and how it was able to separate into all of the different stages and components. This was very difficult to implement in our final design, since we needed to make sure that the rocket was strong enough when connected together, but also easy to separate."*



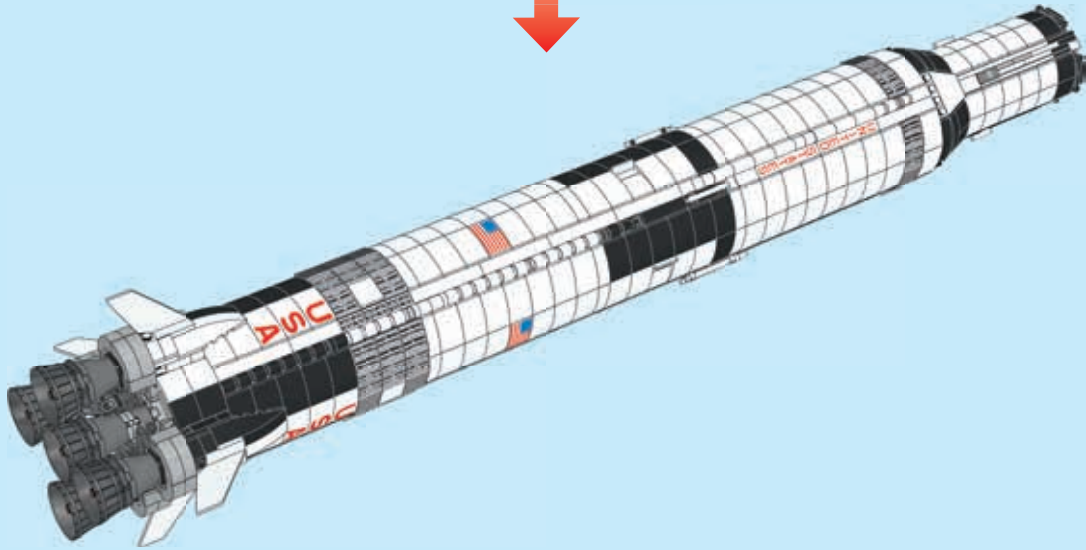


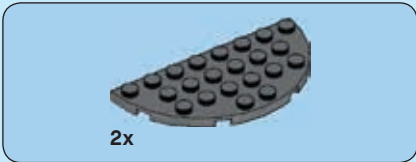
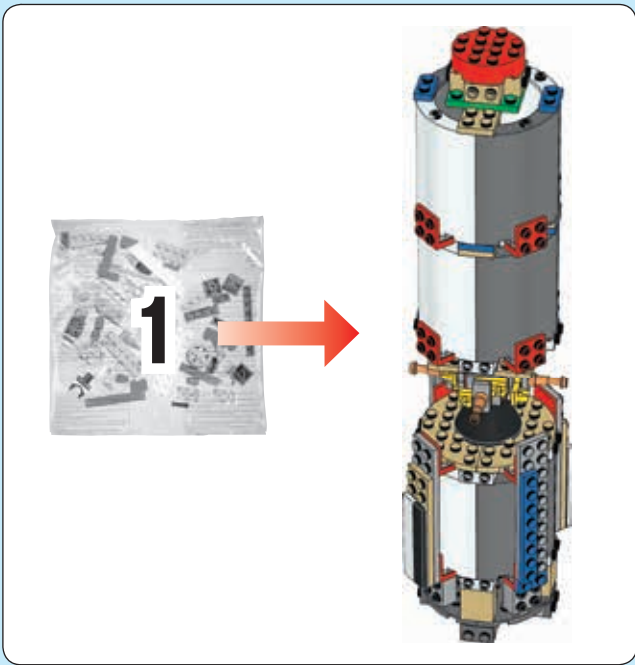


[LEGO.com/brickseparator](https://LEGO.com/brickseparator)

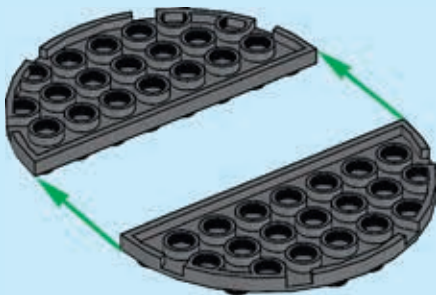




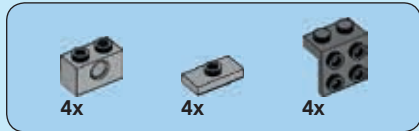
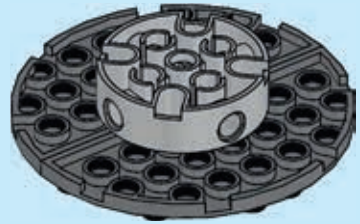




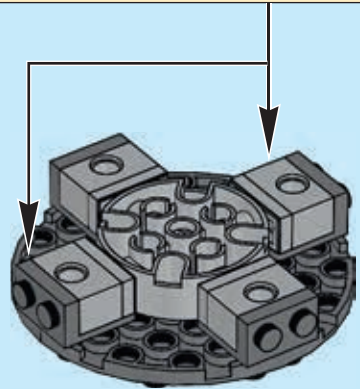
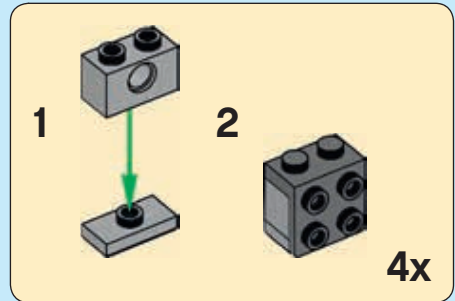
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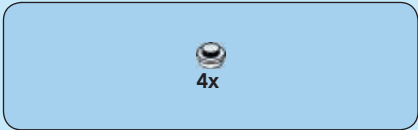
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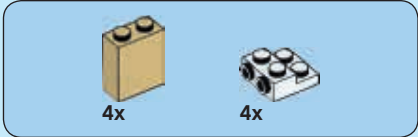
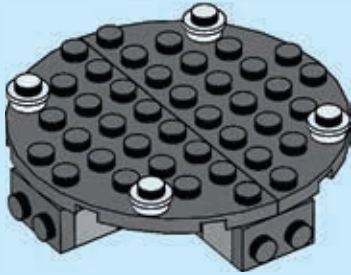
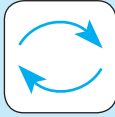
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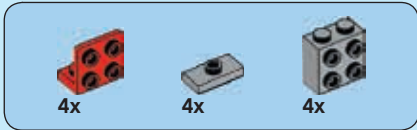
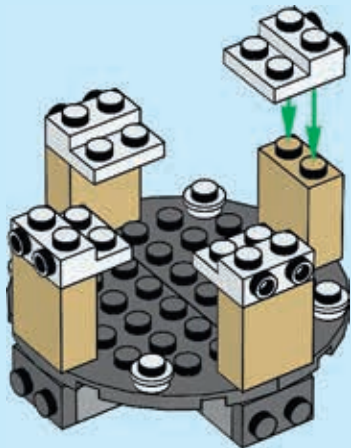




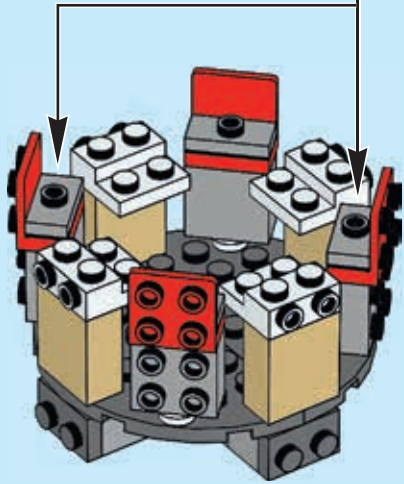
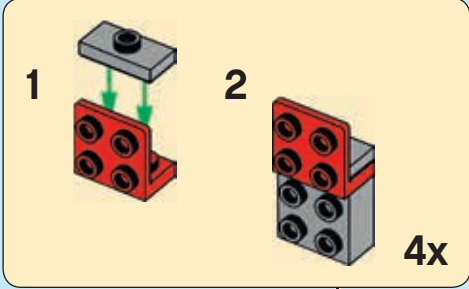
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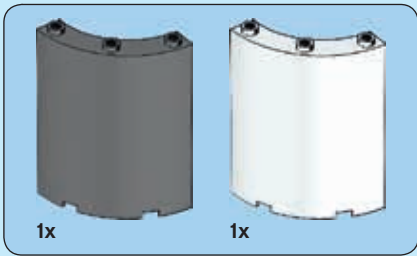


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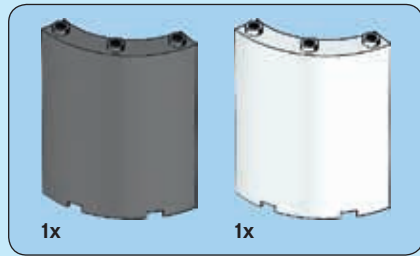
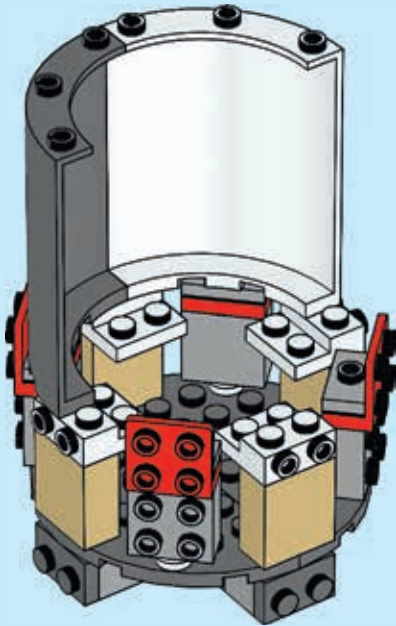


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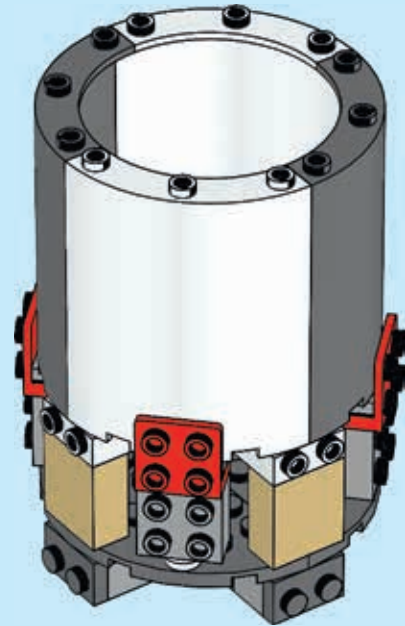




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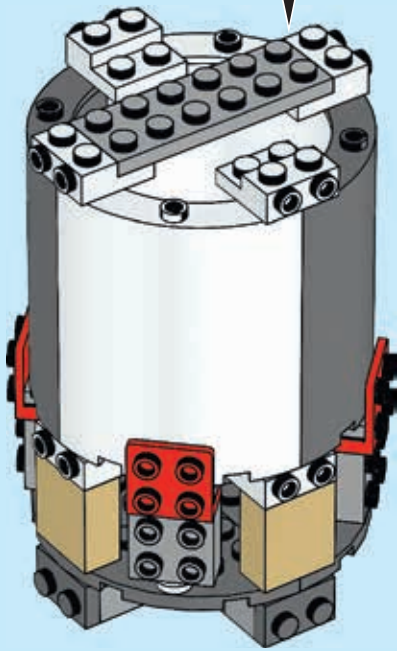
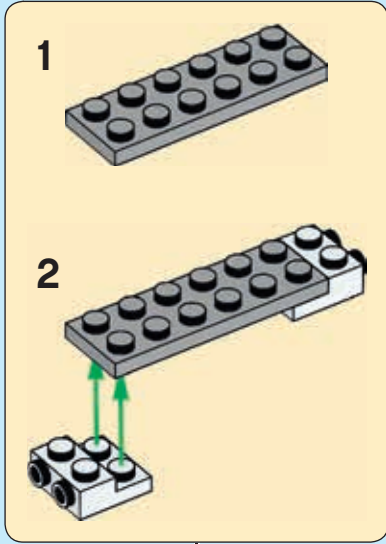
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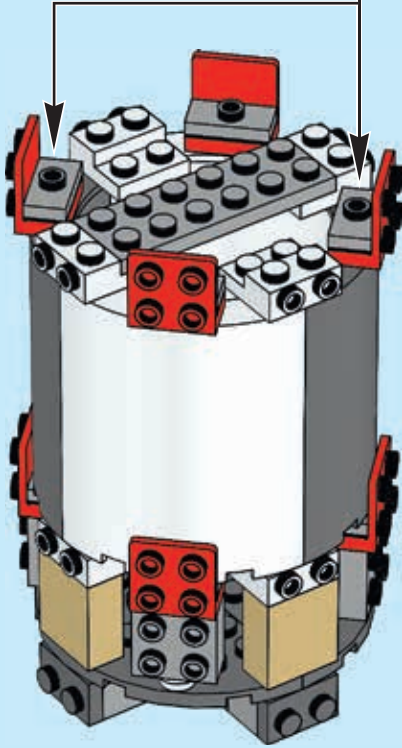
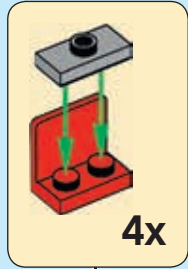


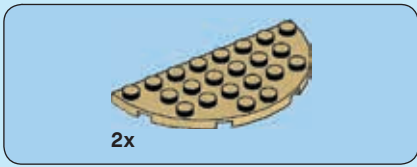


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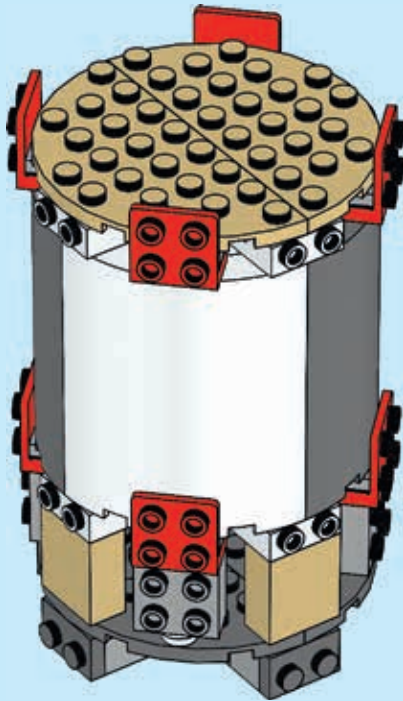


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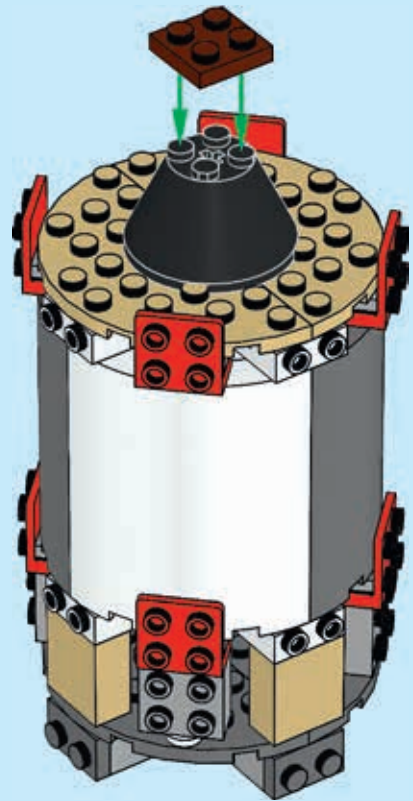




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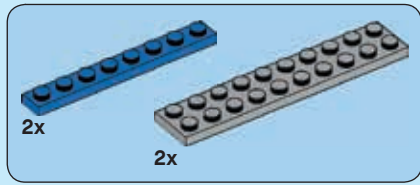
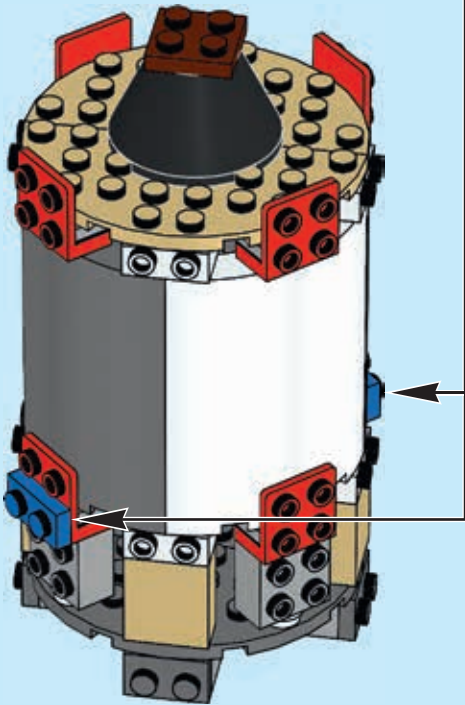
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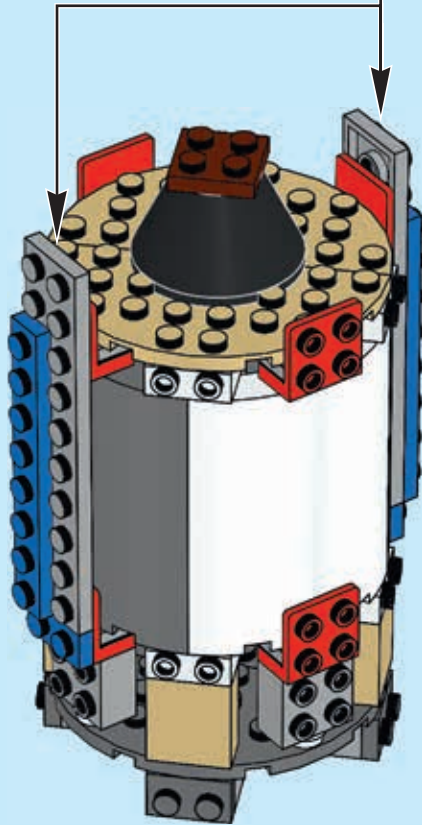
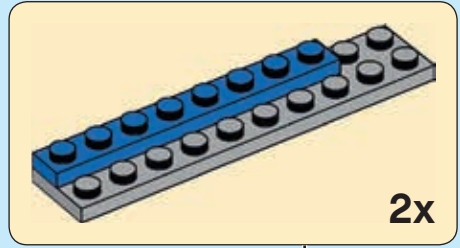


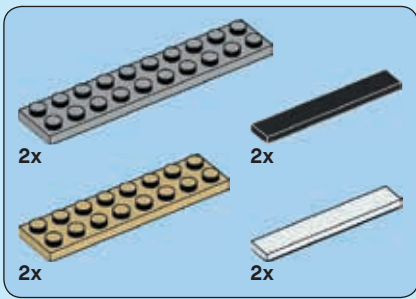


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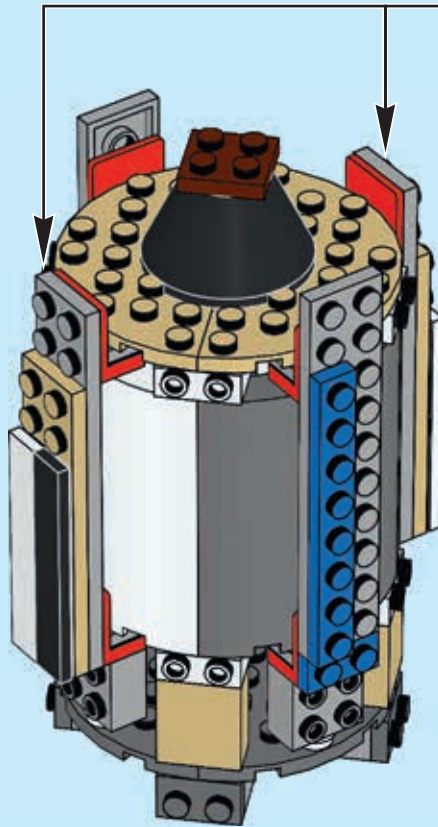
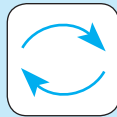
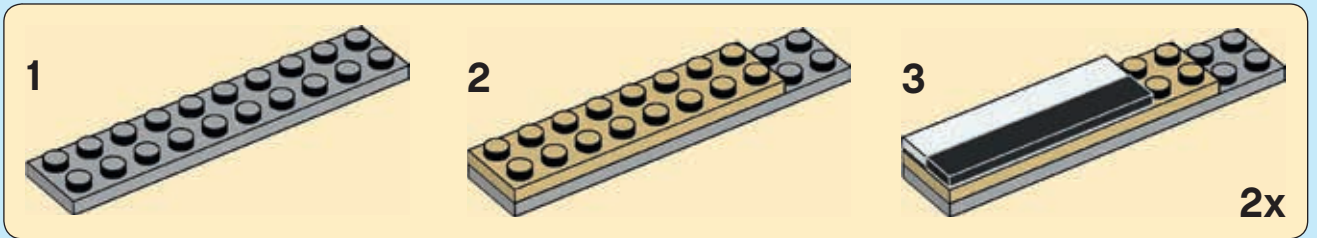


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# 15

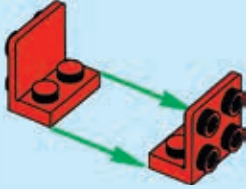






2x

16



1x

17



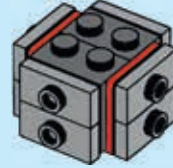
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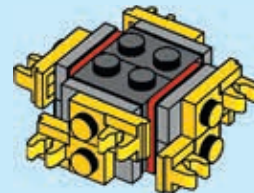
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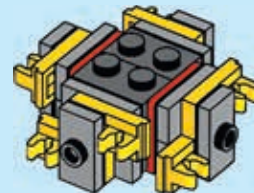
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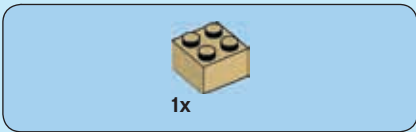
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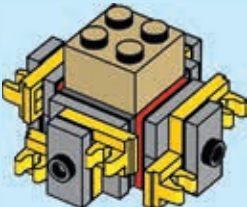
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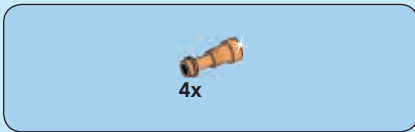
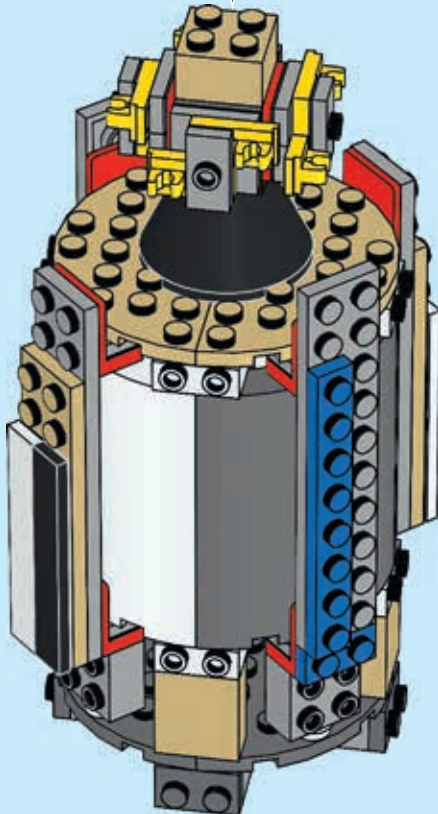




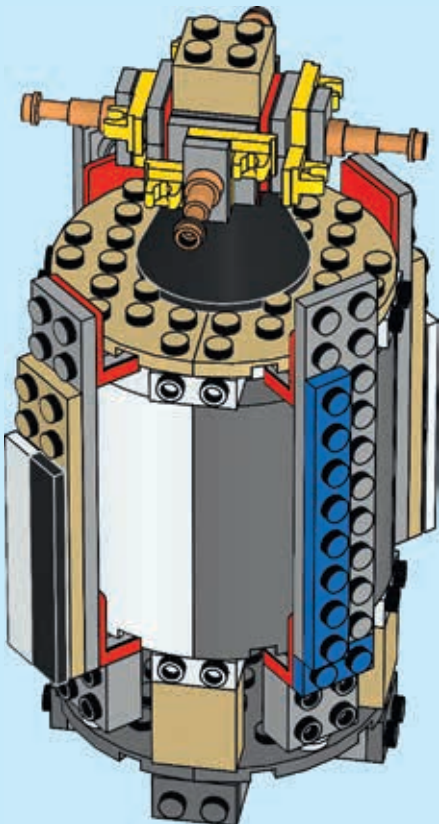
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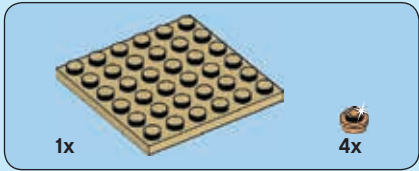
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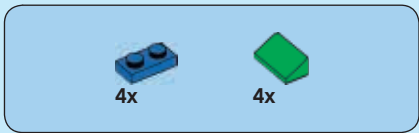
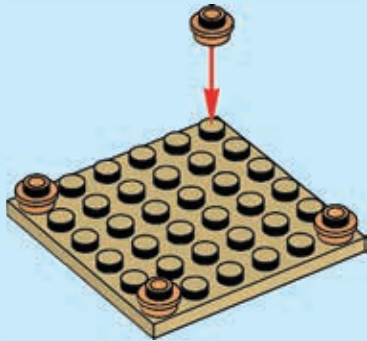
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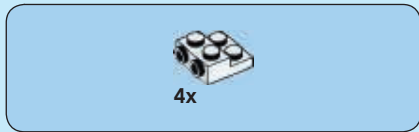
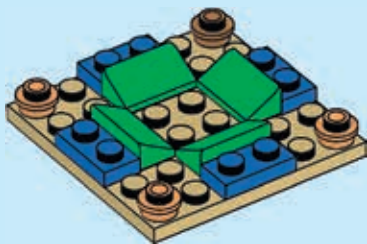




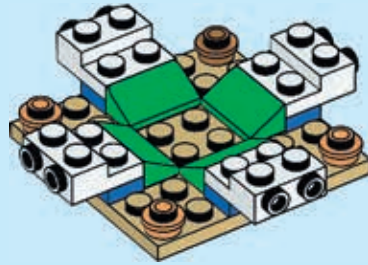
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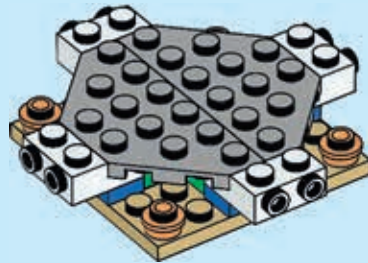
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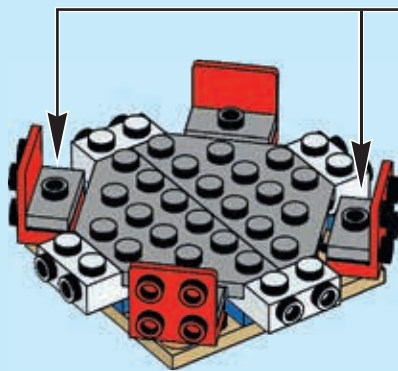
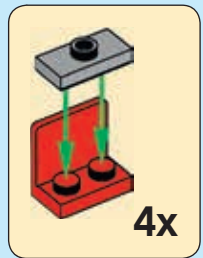
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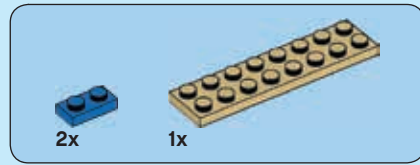
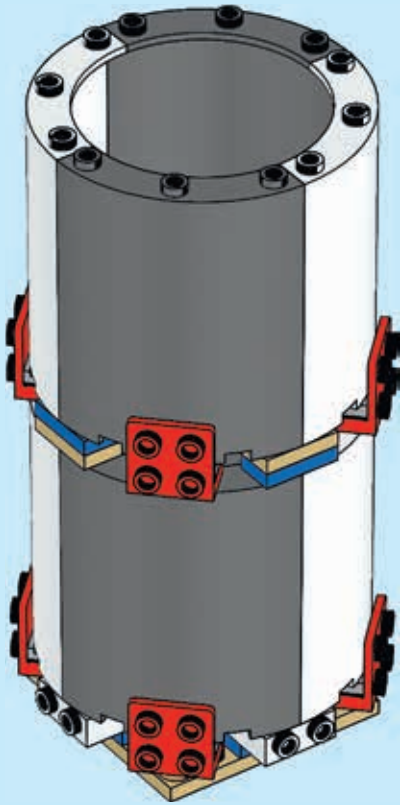




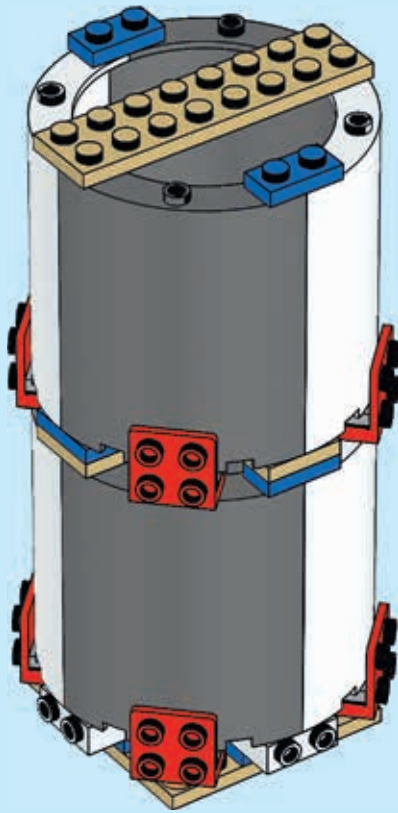


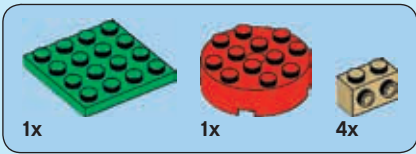


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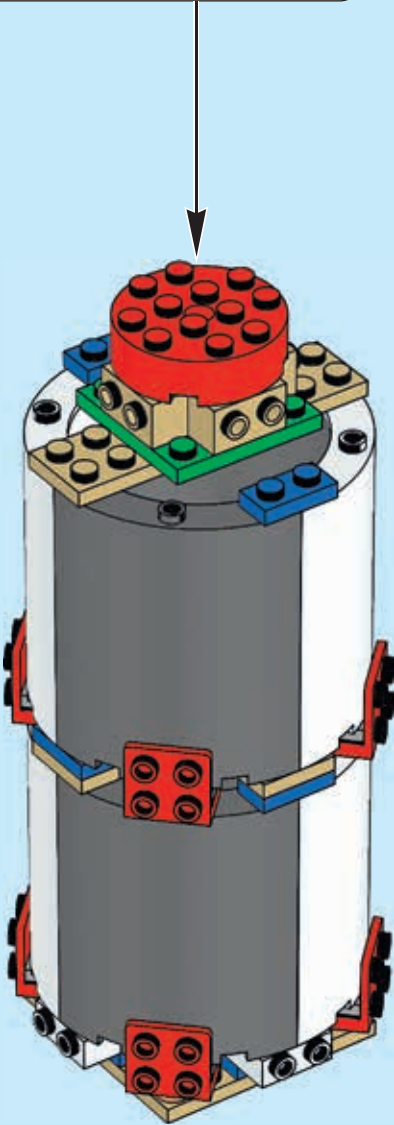
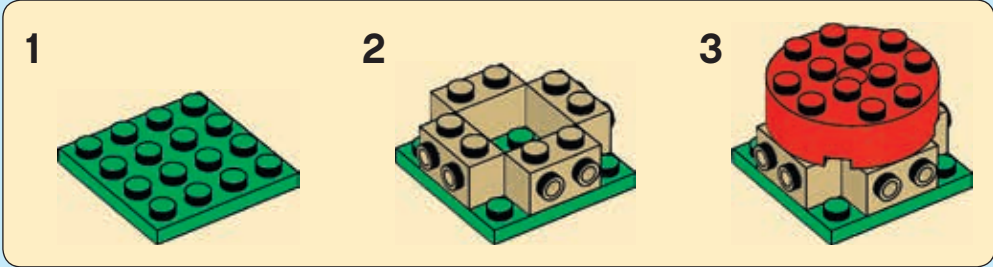


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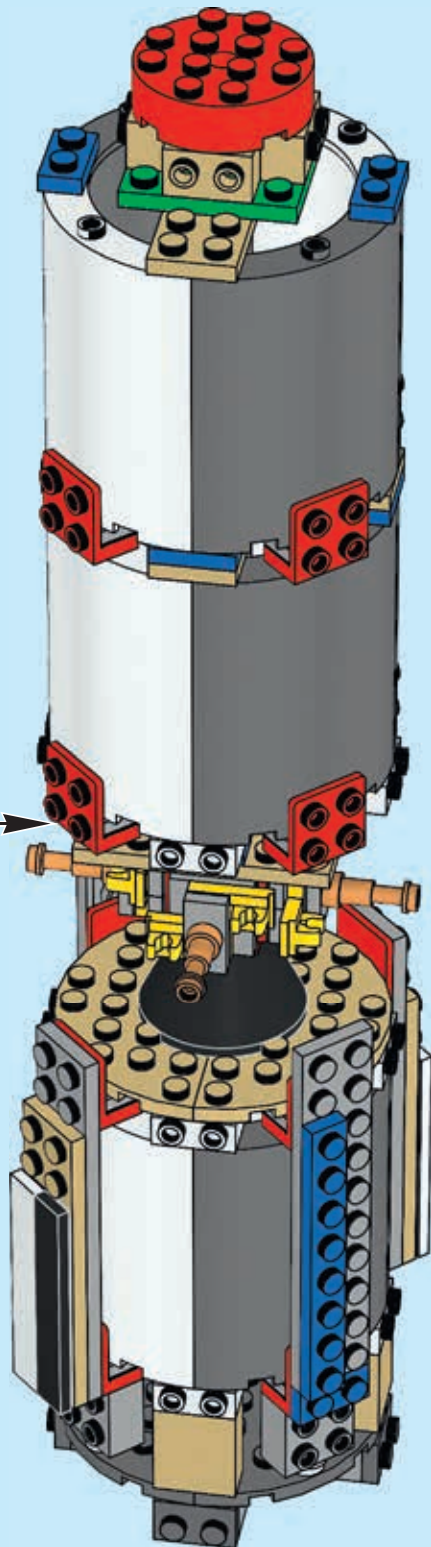


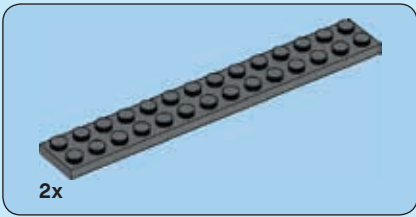
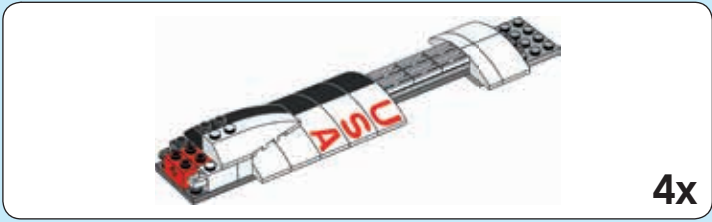
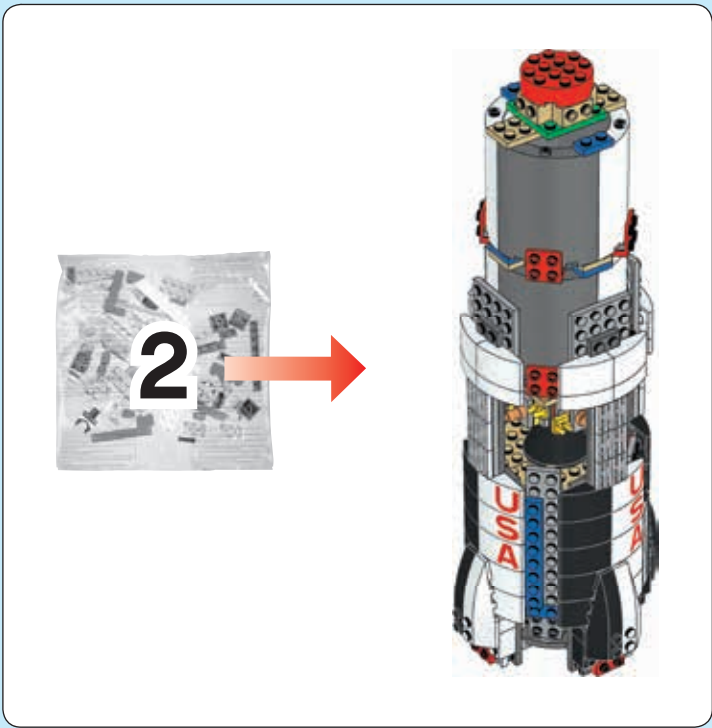
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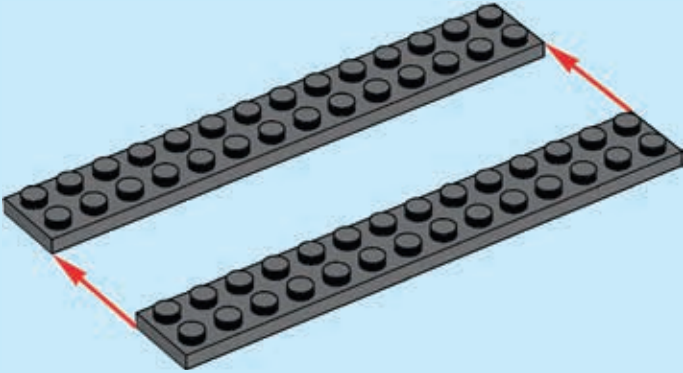


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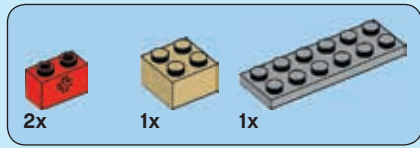




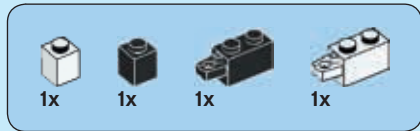
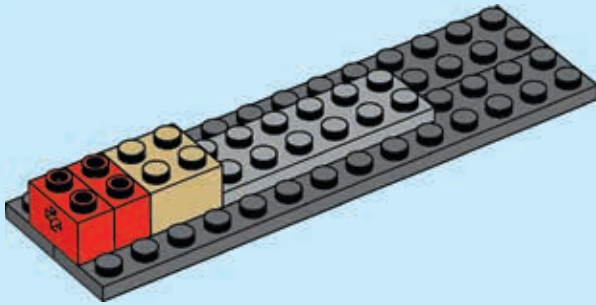
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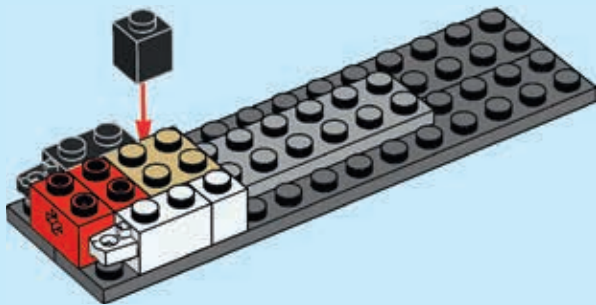




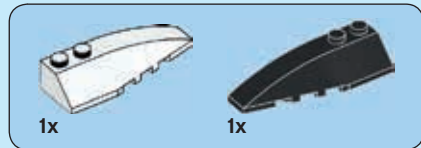
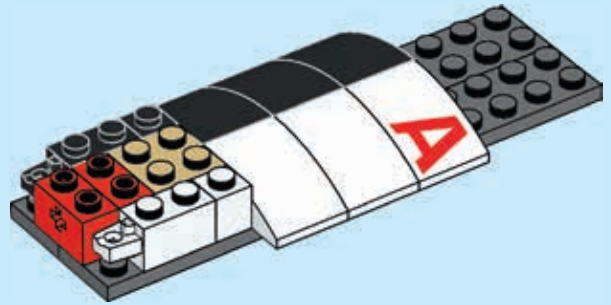
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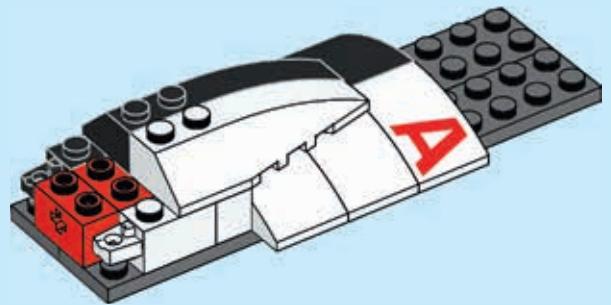
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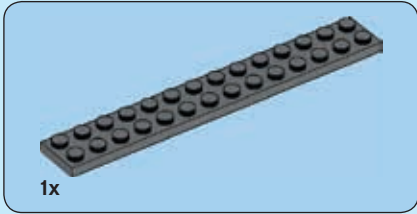


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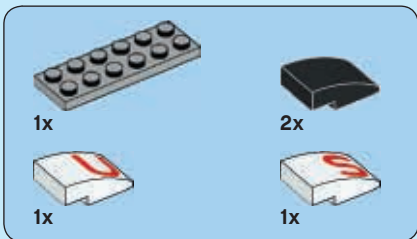
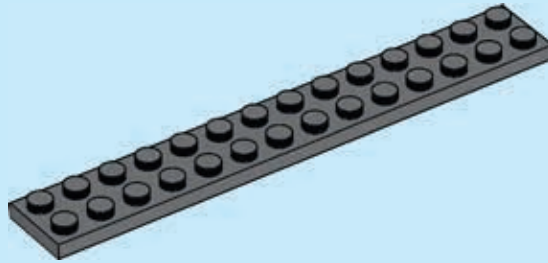


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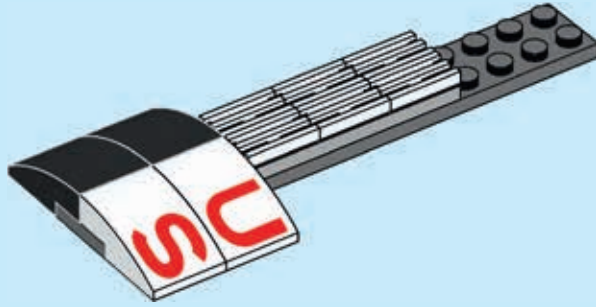






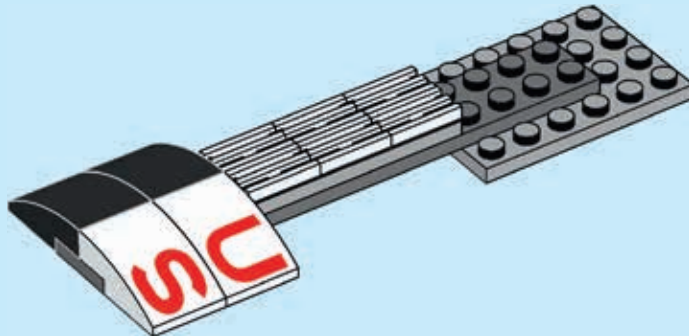
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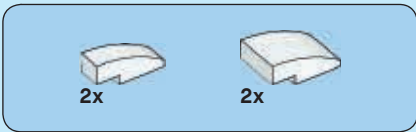
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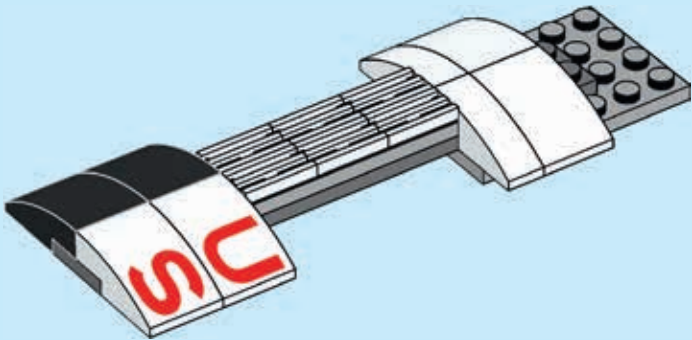
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46

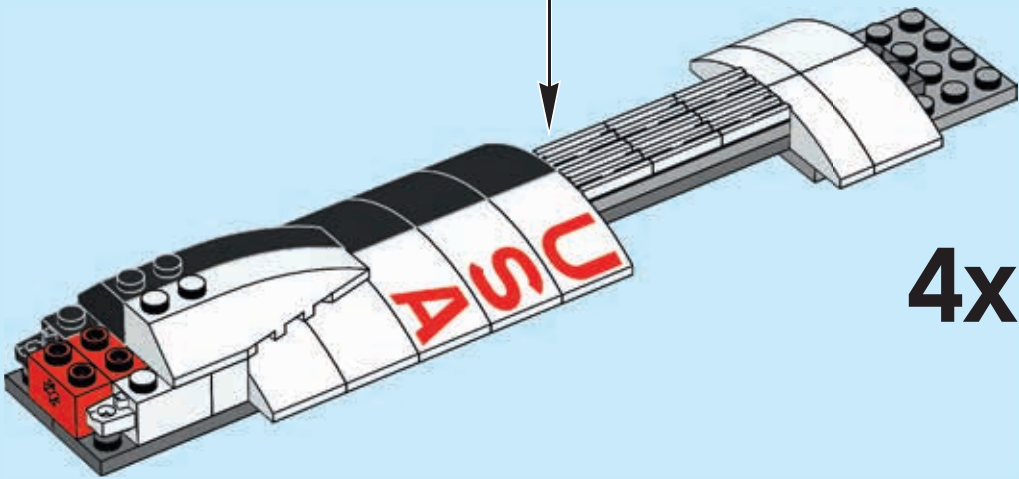




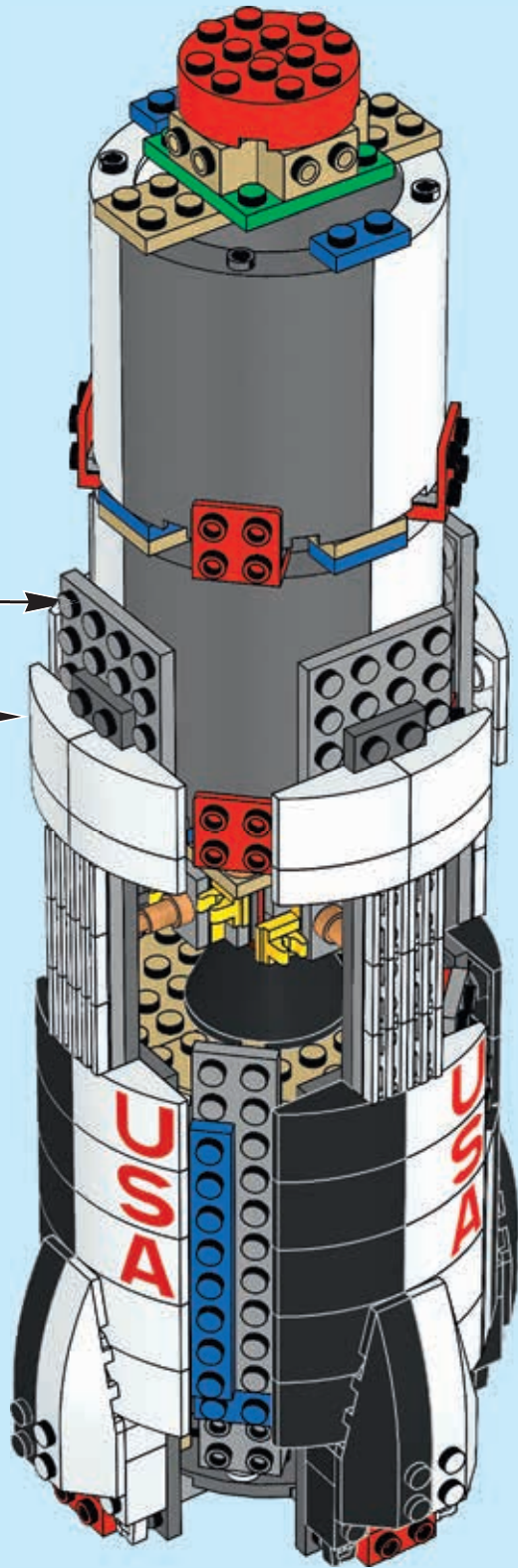
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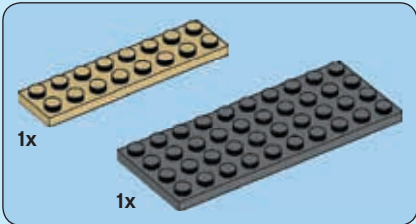
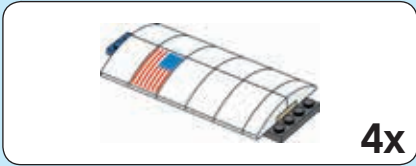
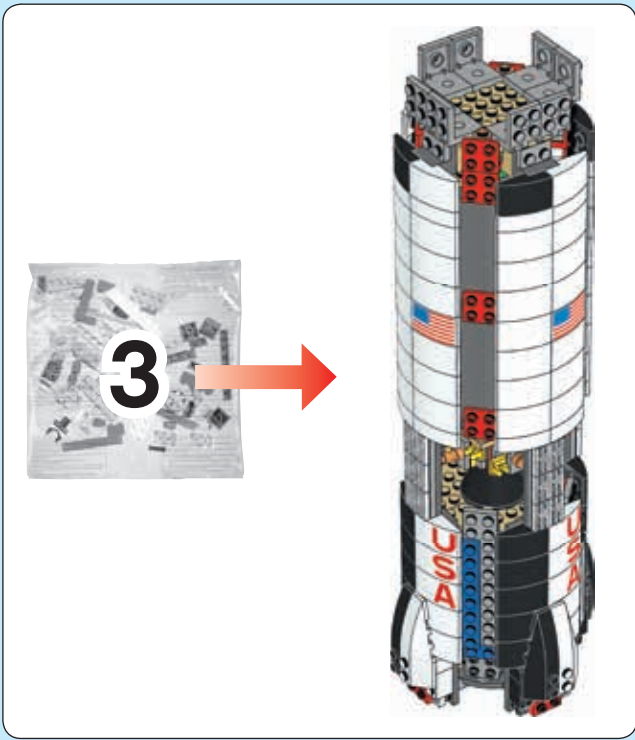
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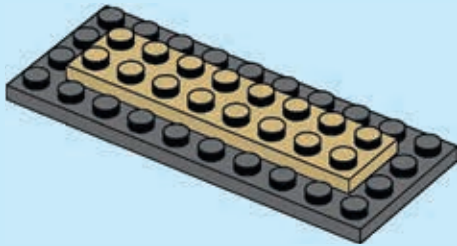
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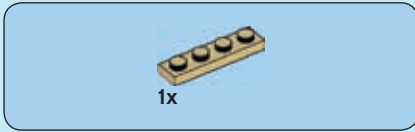
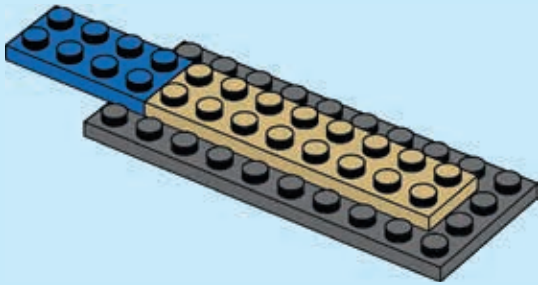




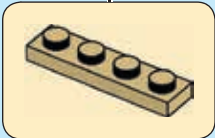
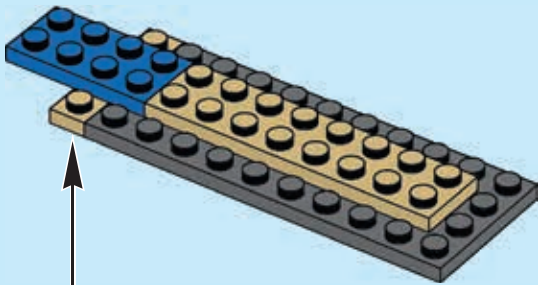
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51



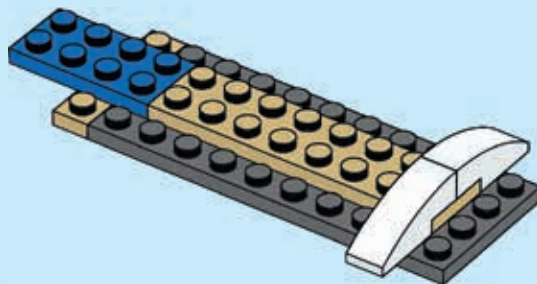
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53

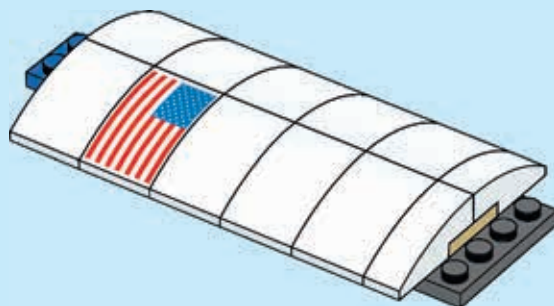


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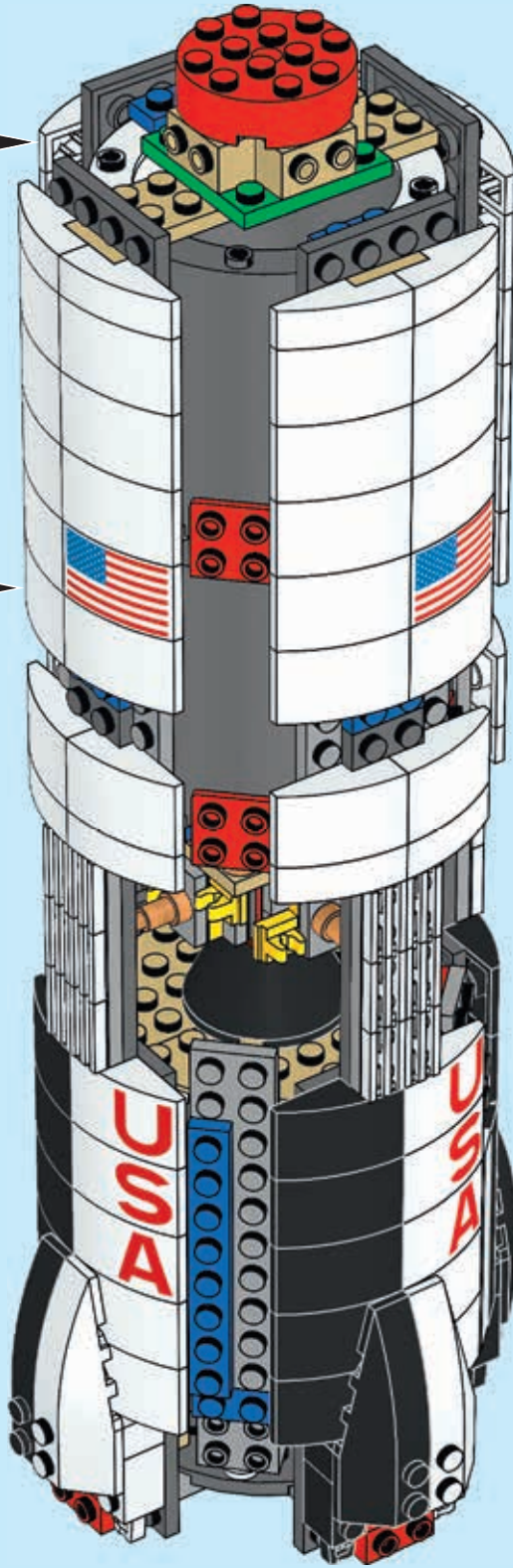
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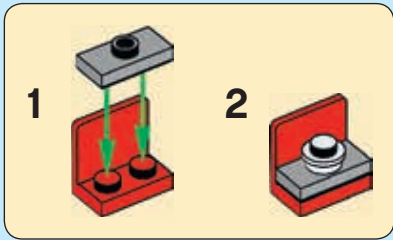
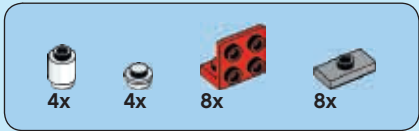


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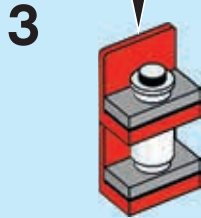
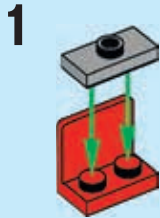
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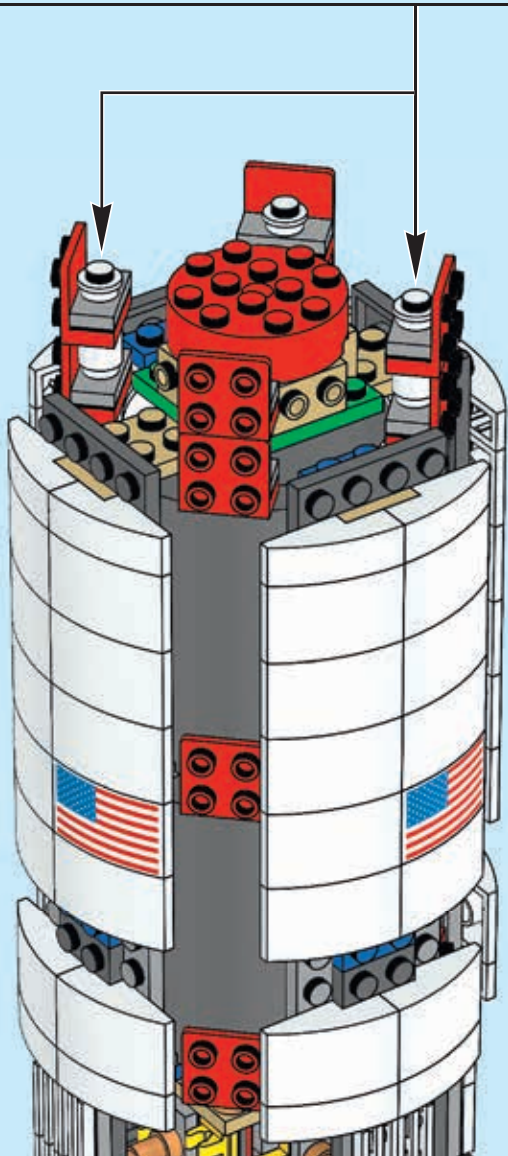




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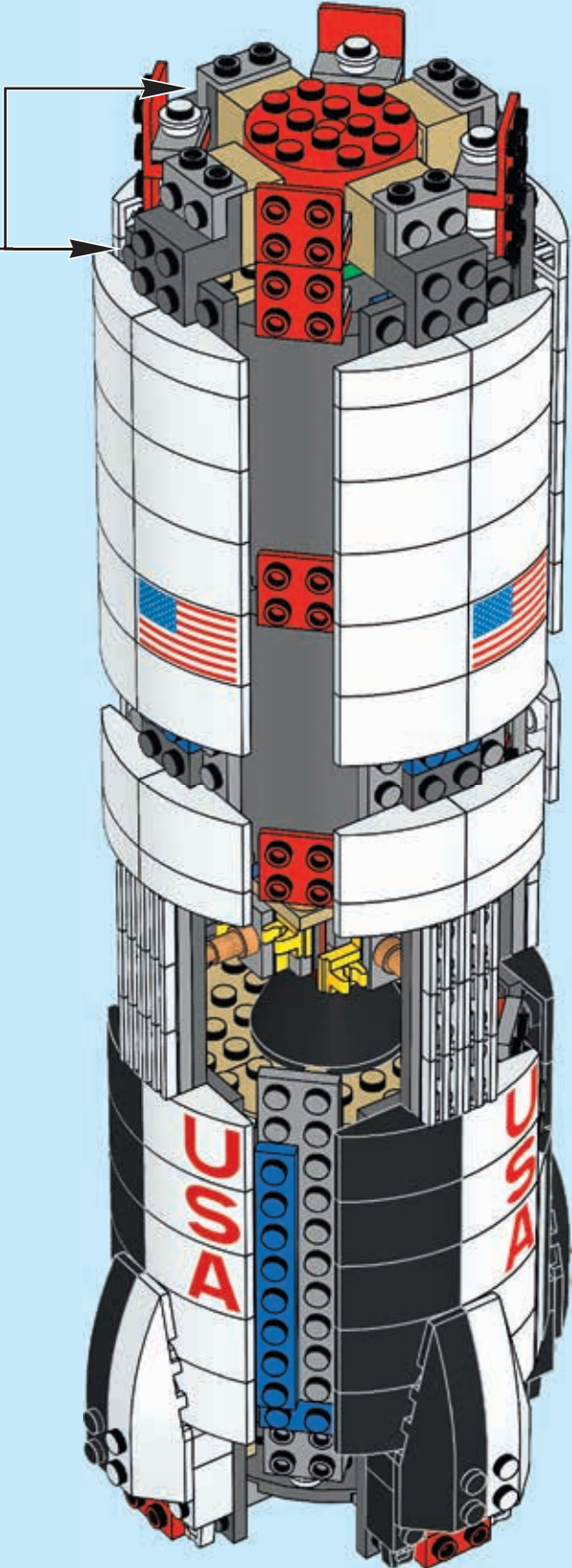
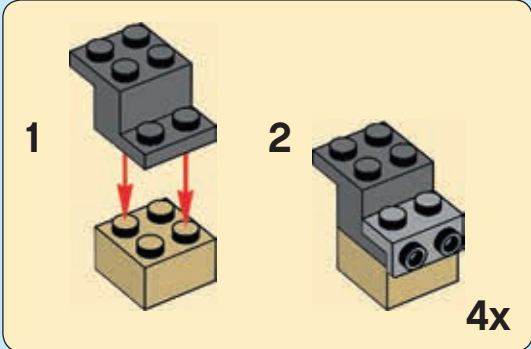


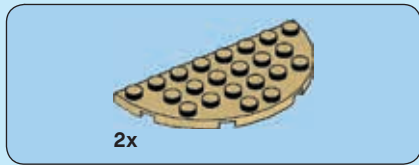
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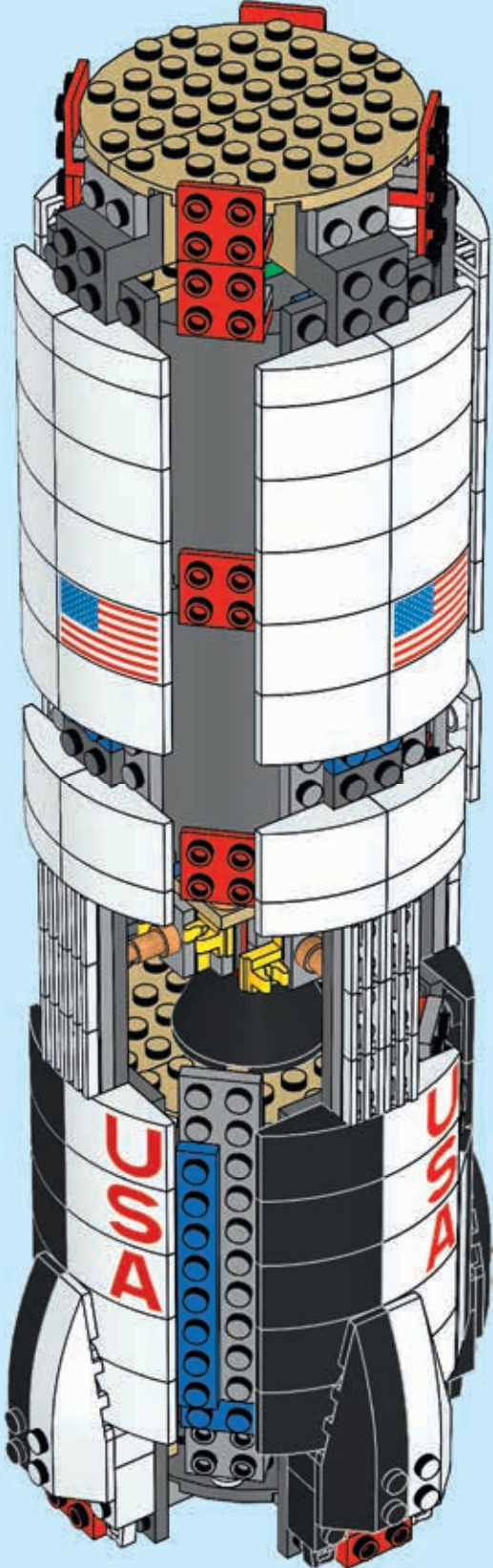


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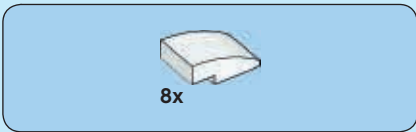




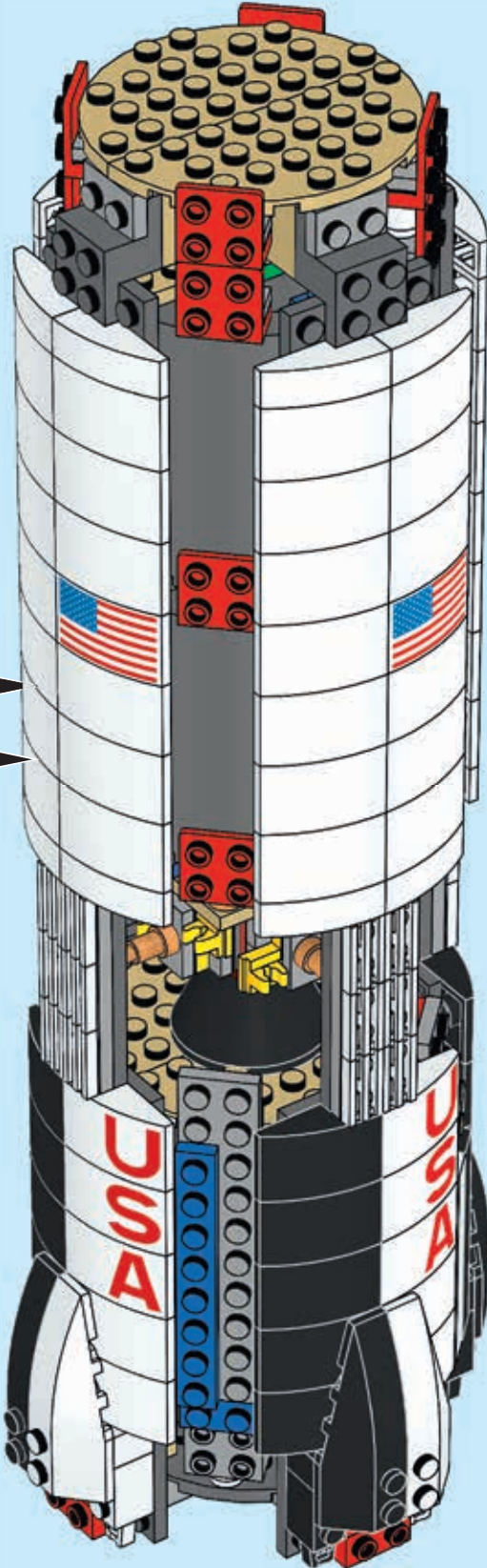
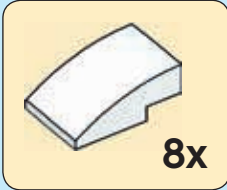
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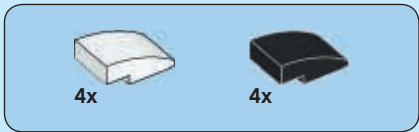




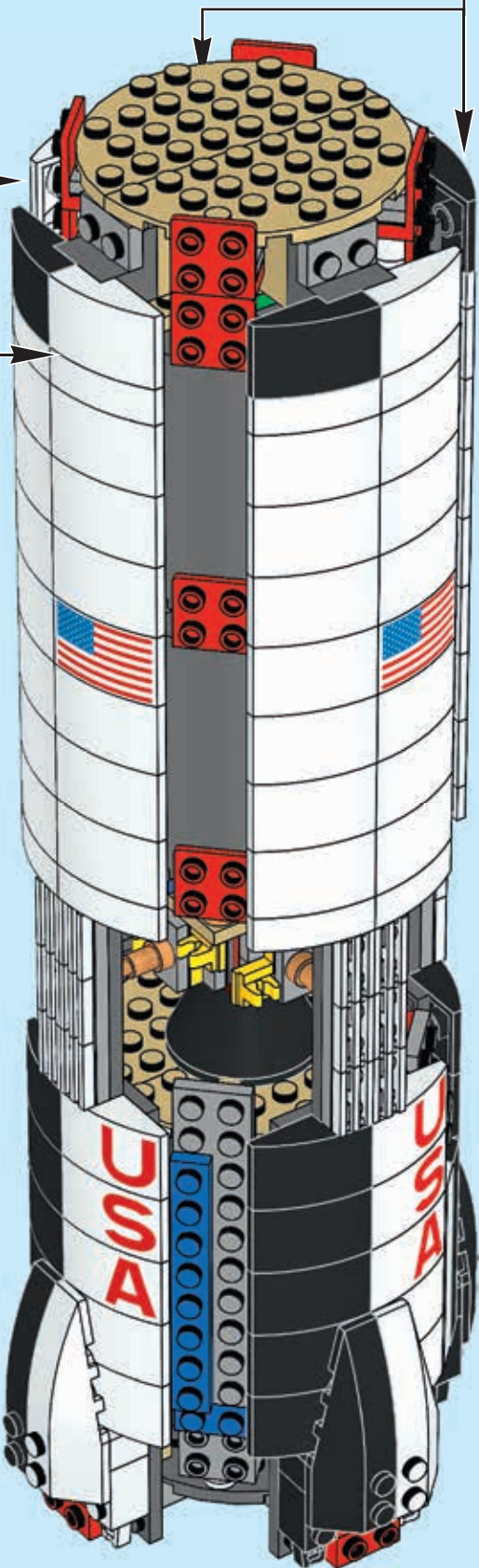


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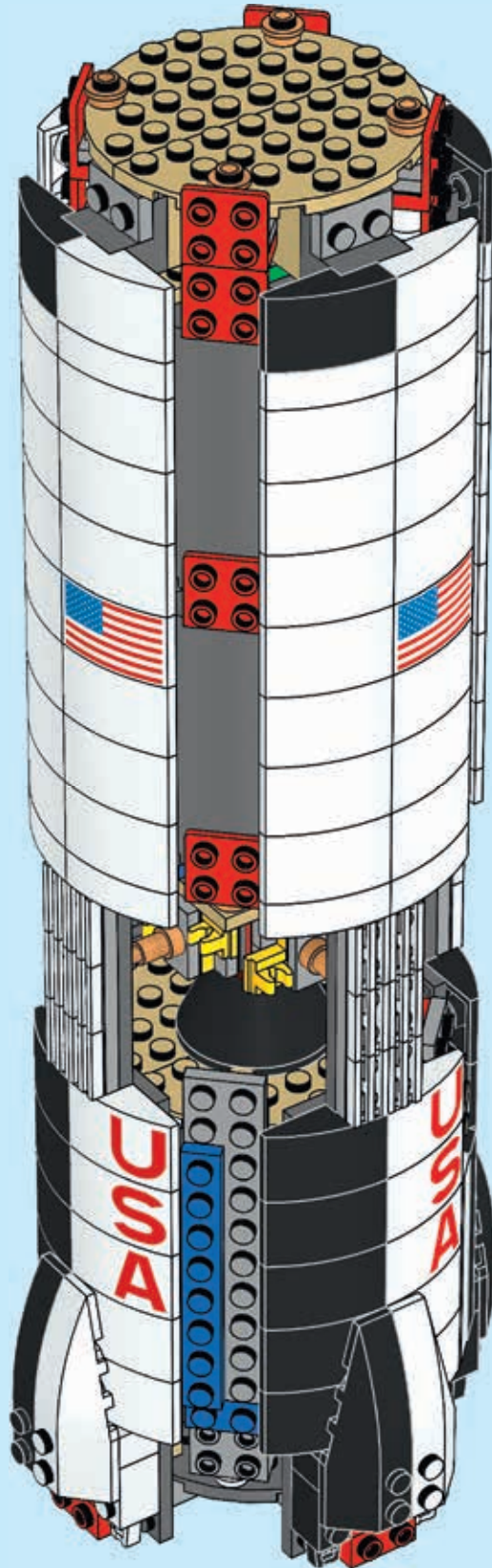
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61

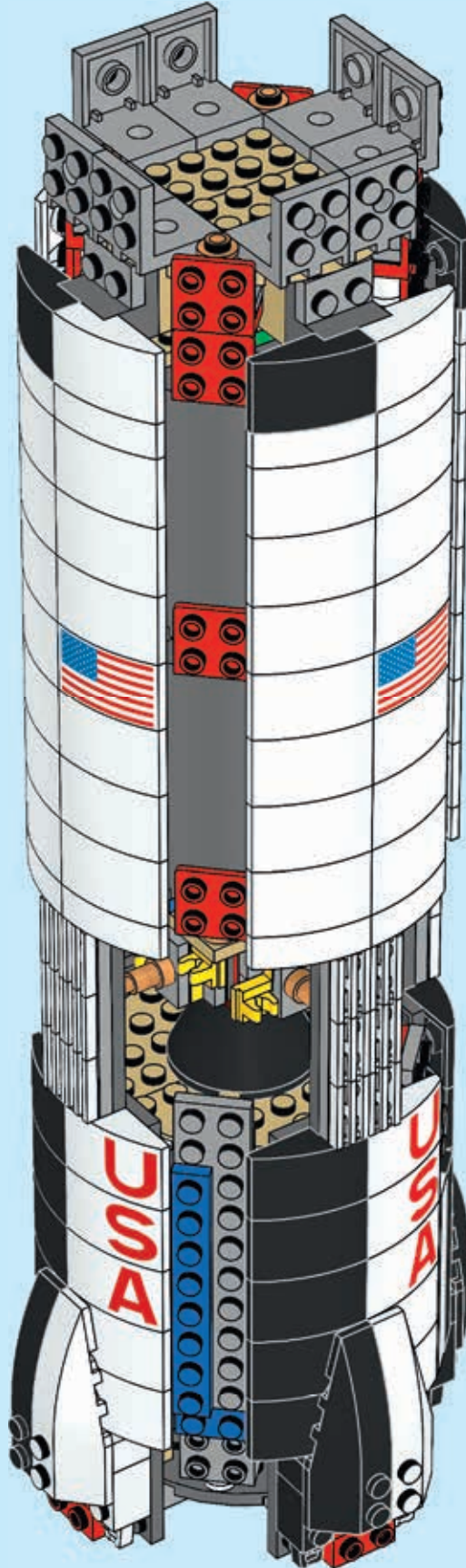






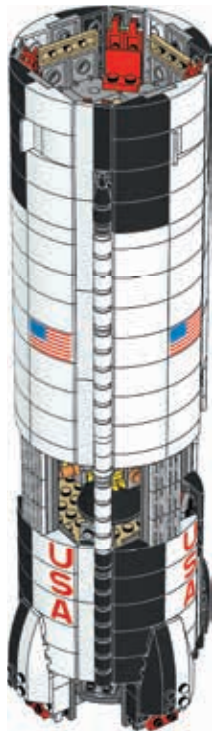
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62



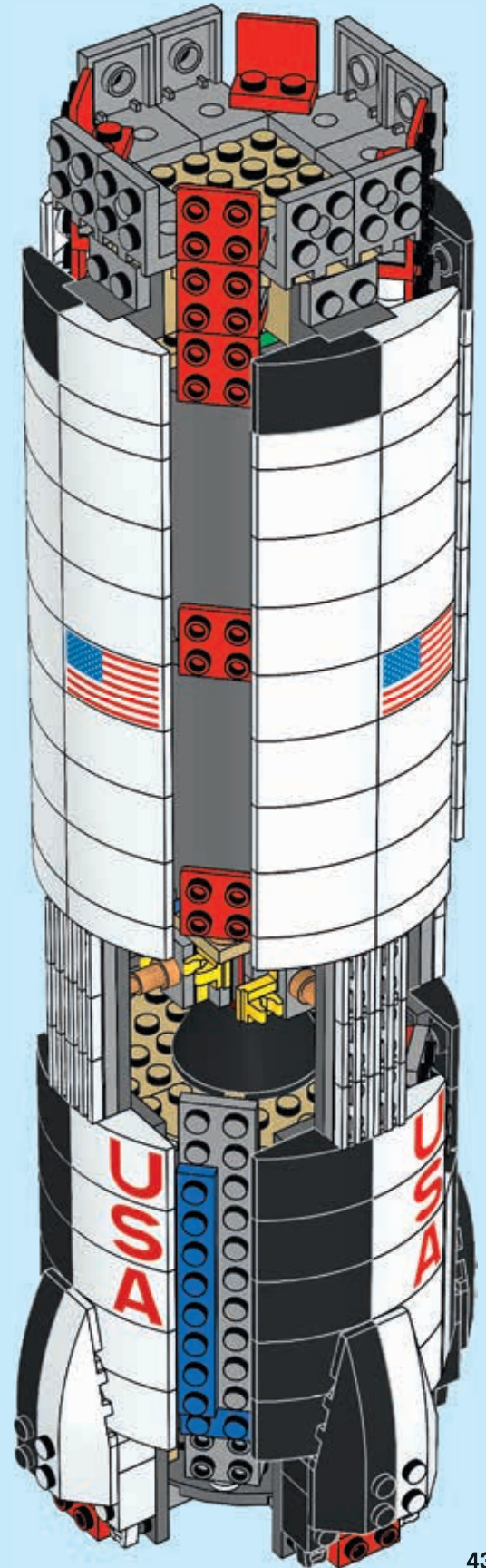


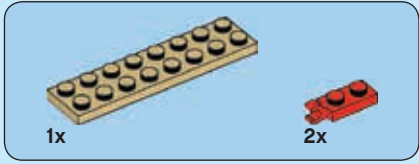
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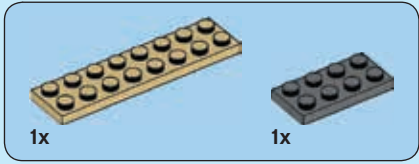
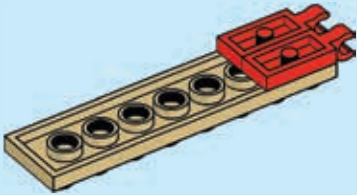
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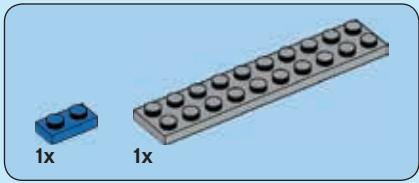
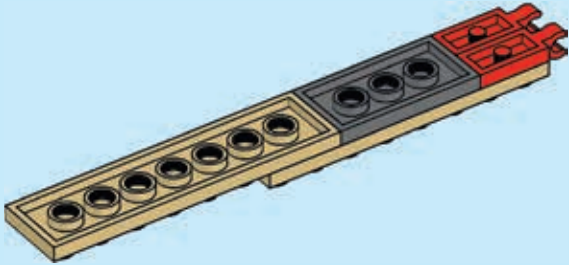




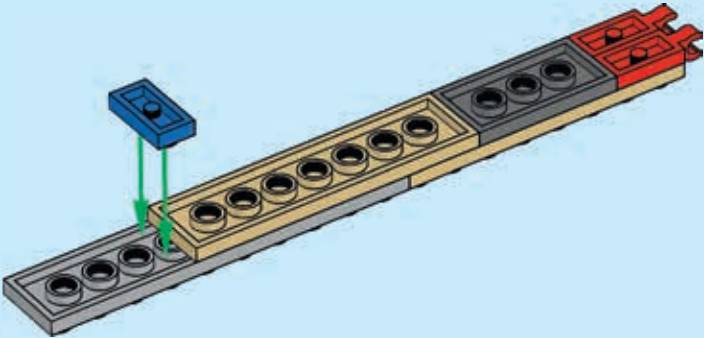
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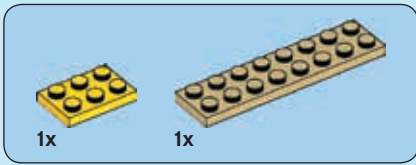
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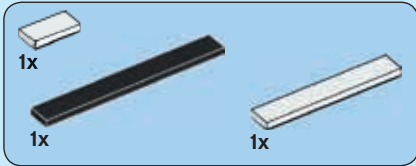
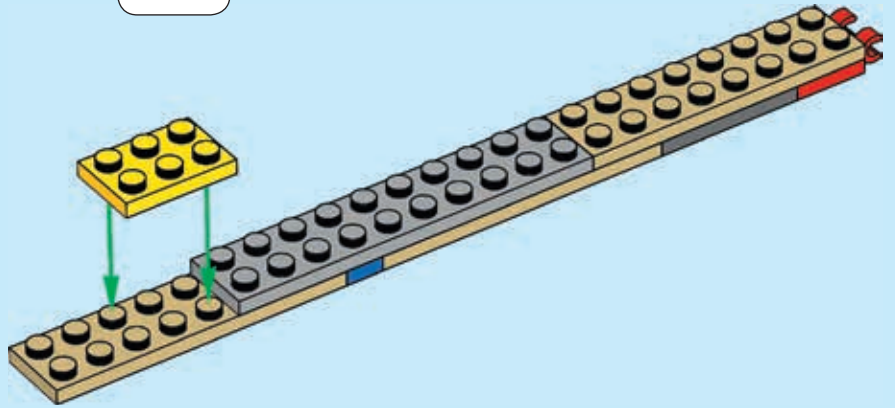
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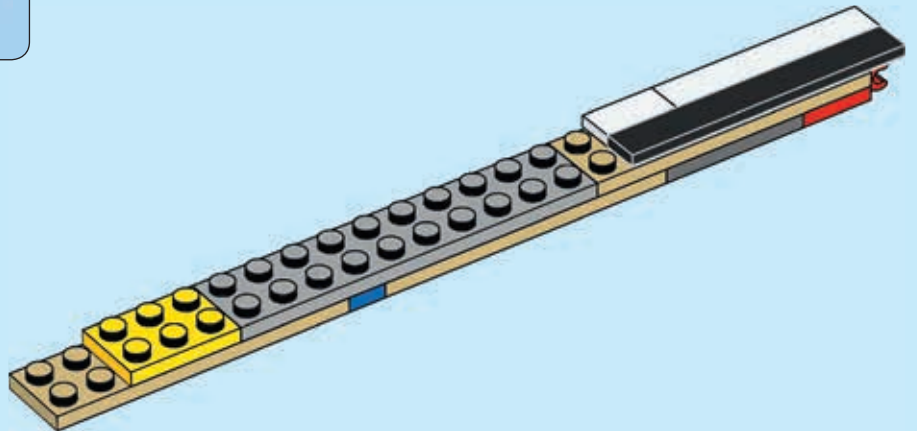




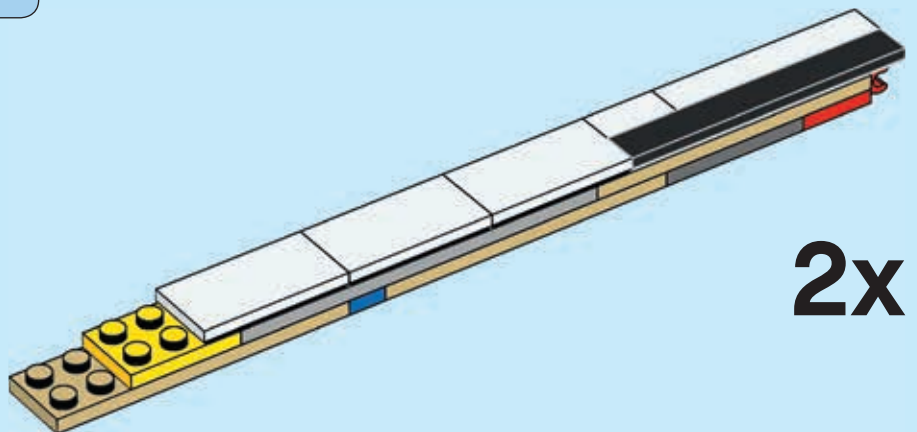
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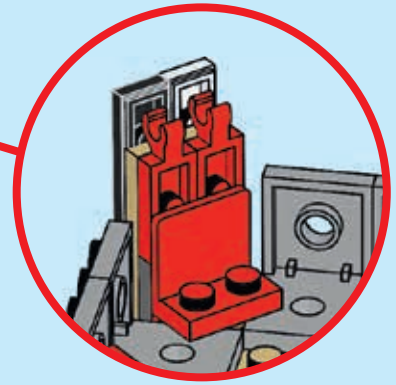
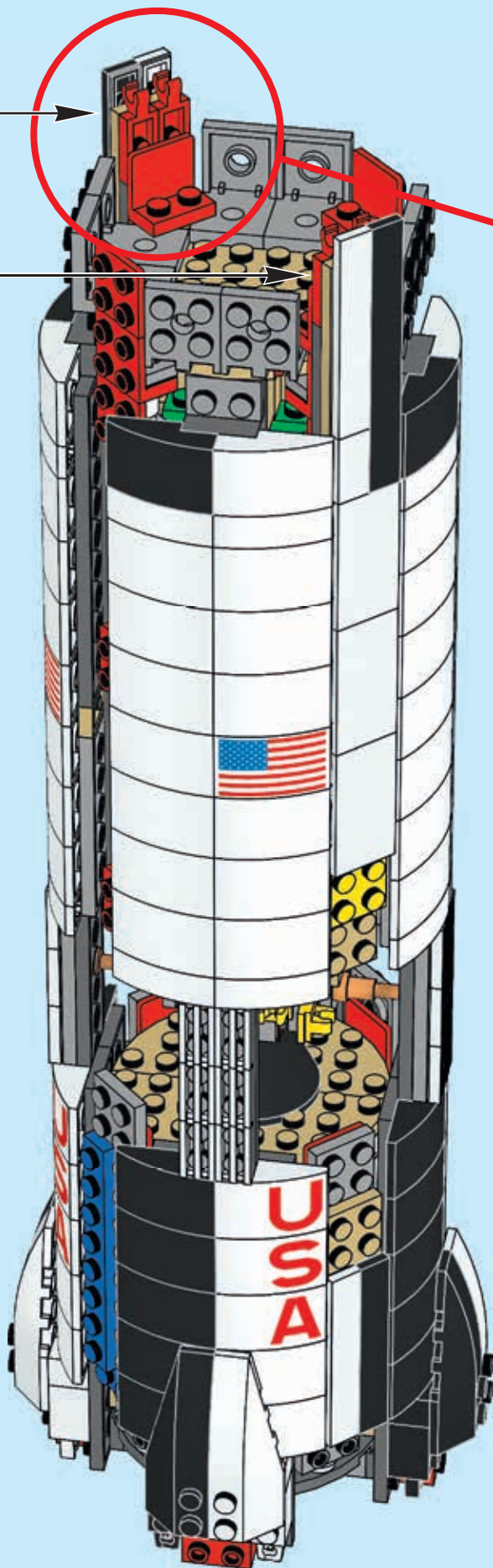


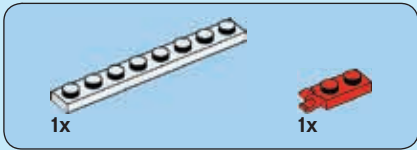
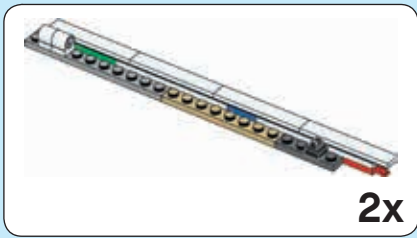
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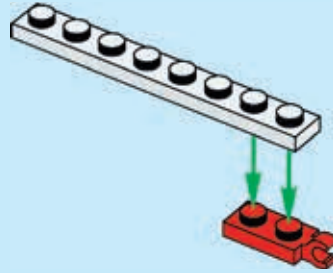
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70

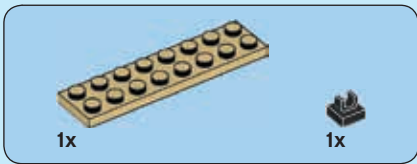
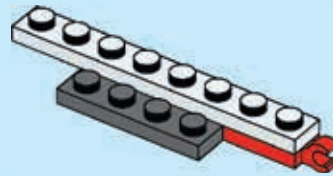




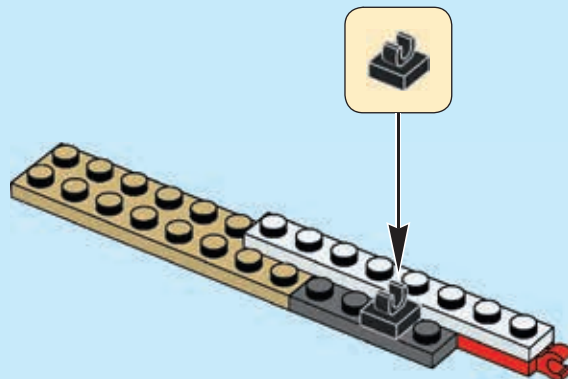
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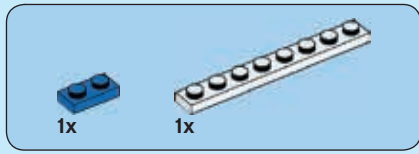
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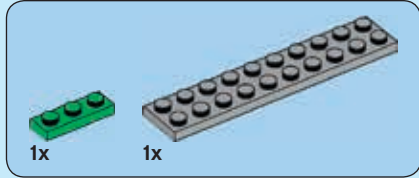
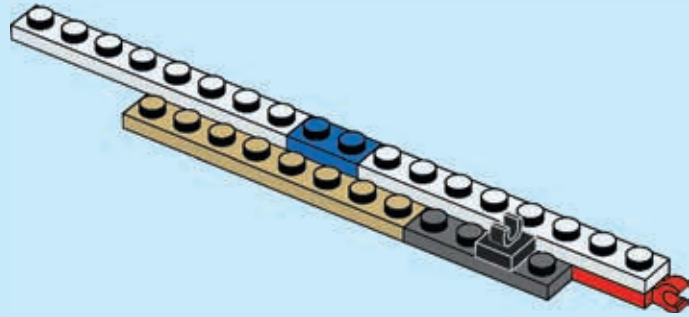
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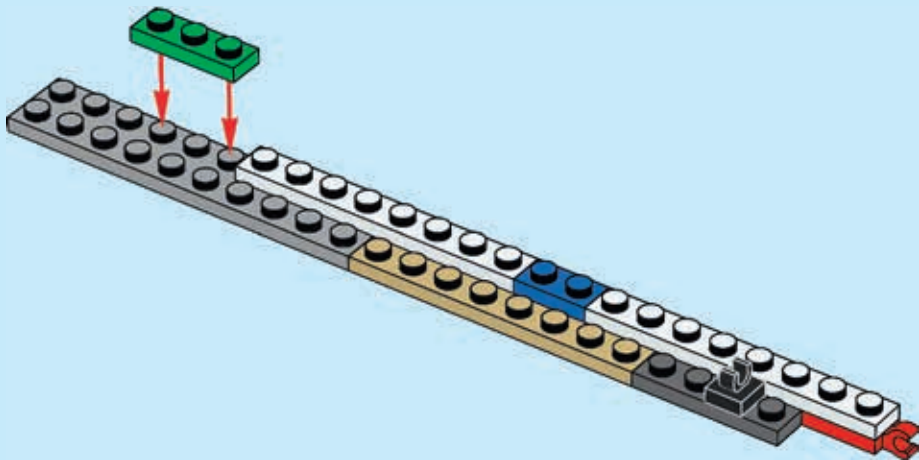




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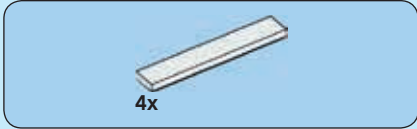
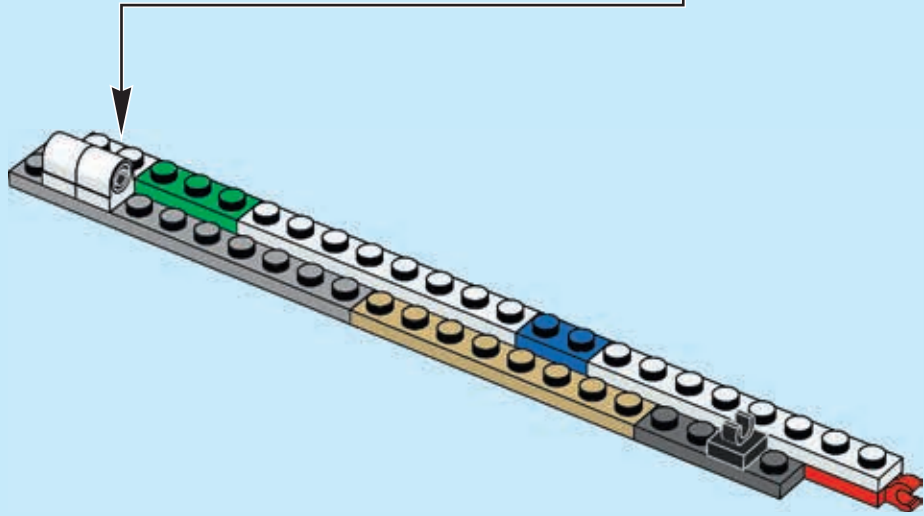
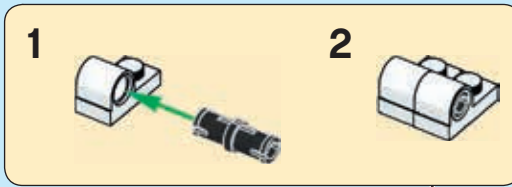


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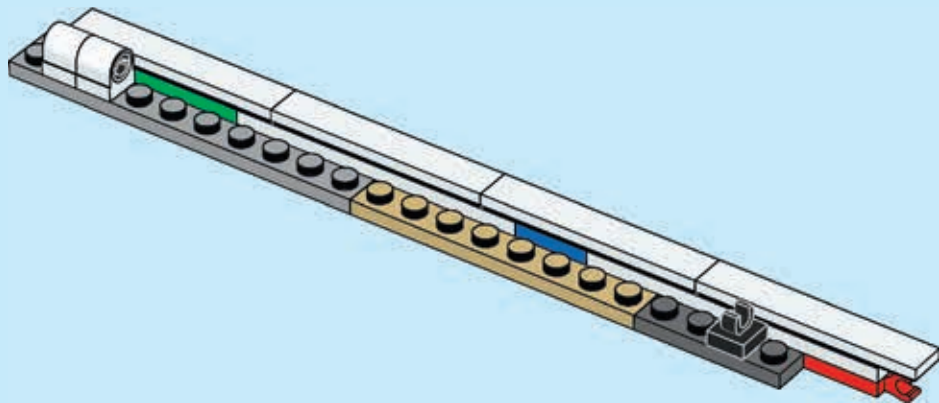




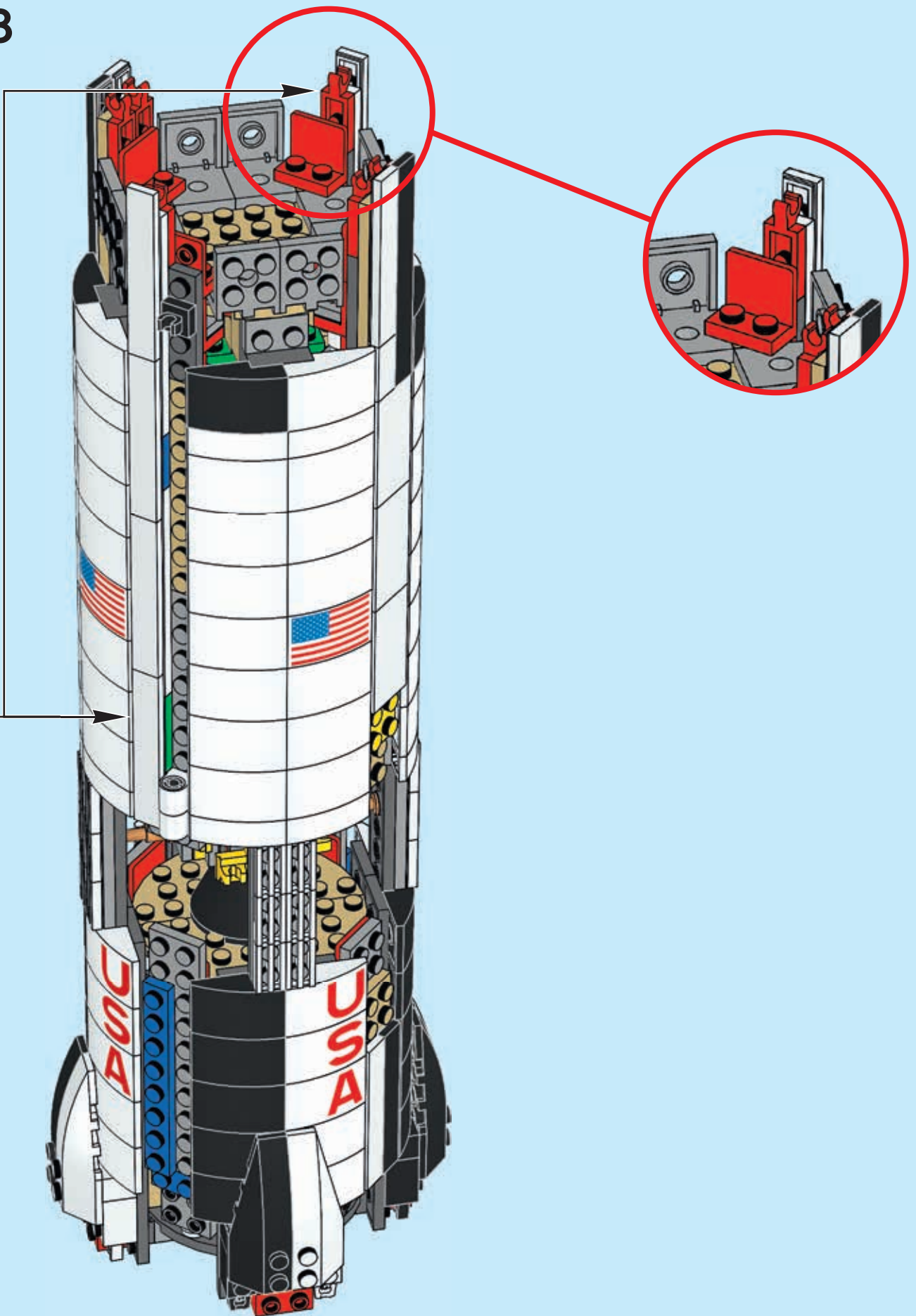
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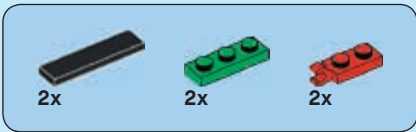
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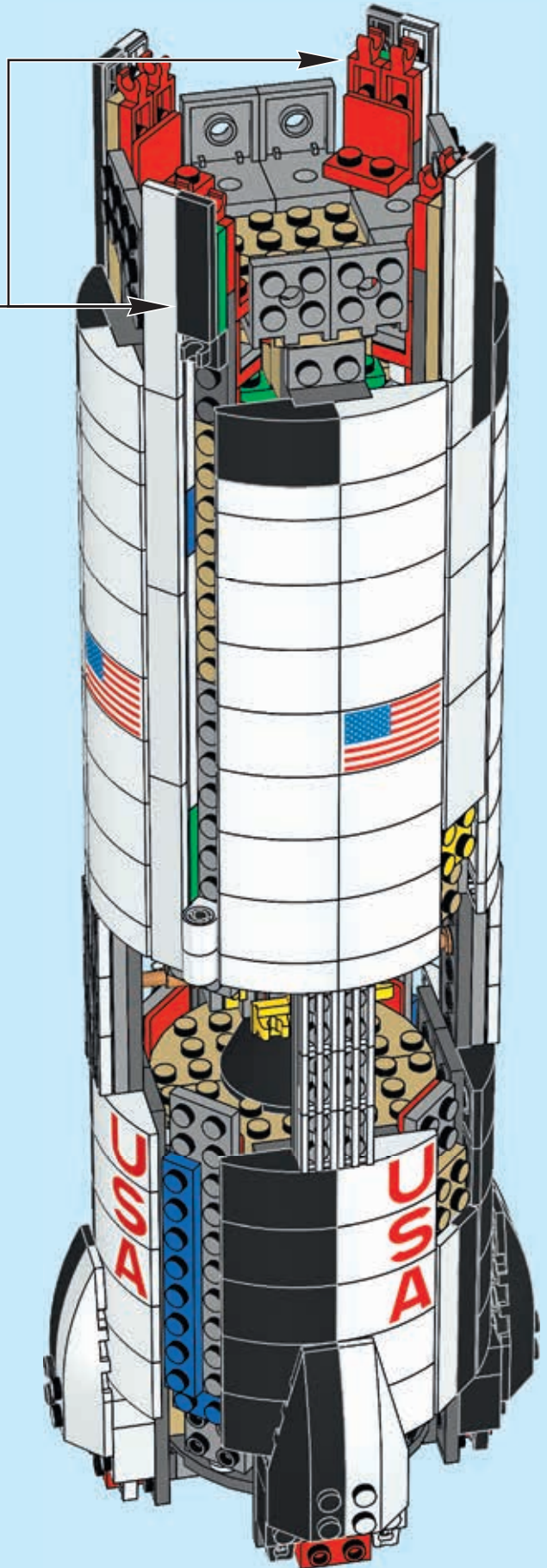
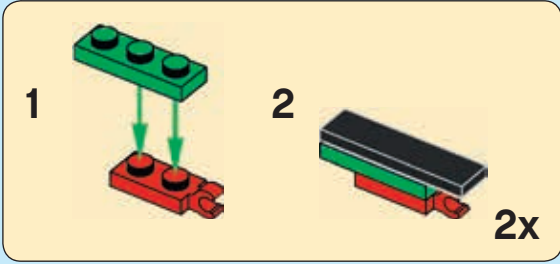
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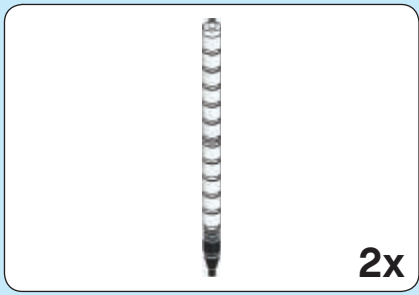




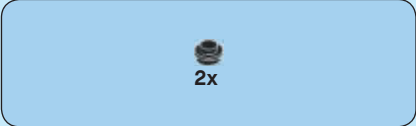


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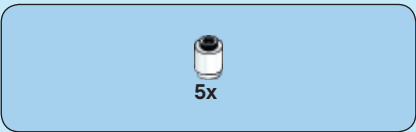




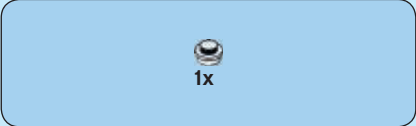
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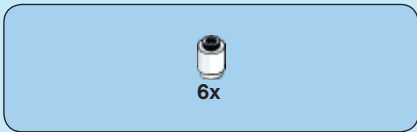


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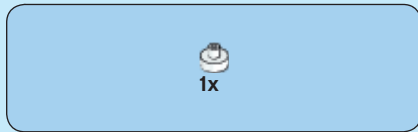


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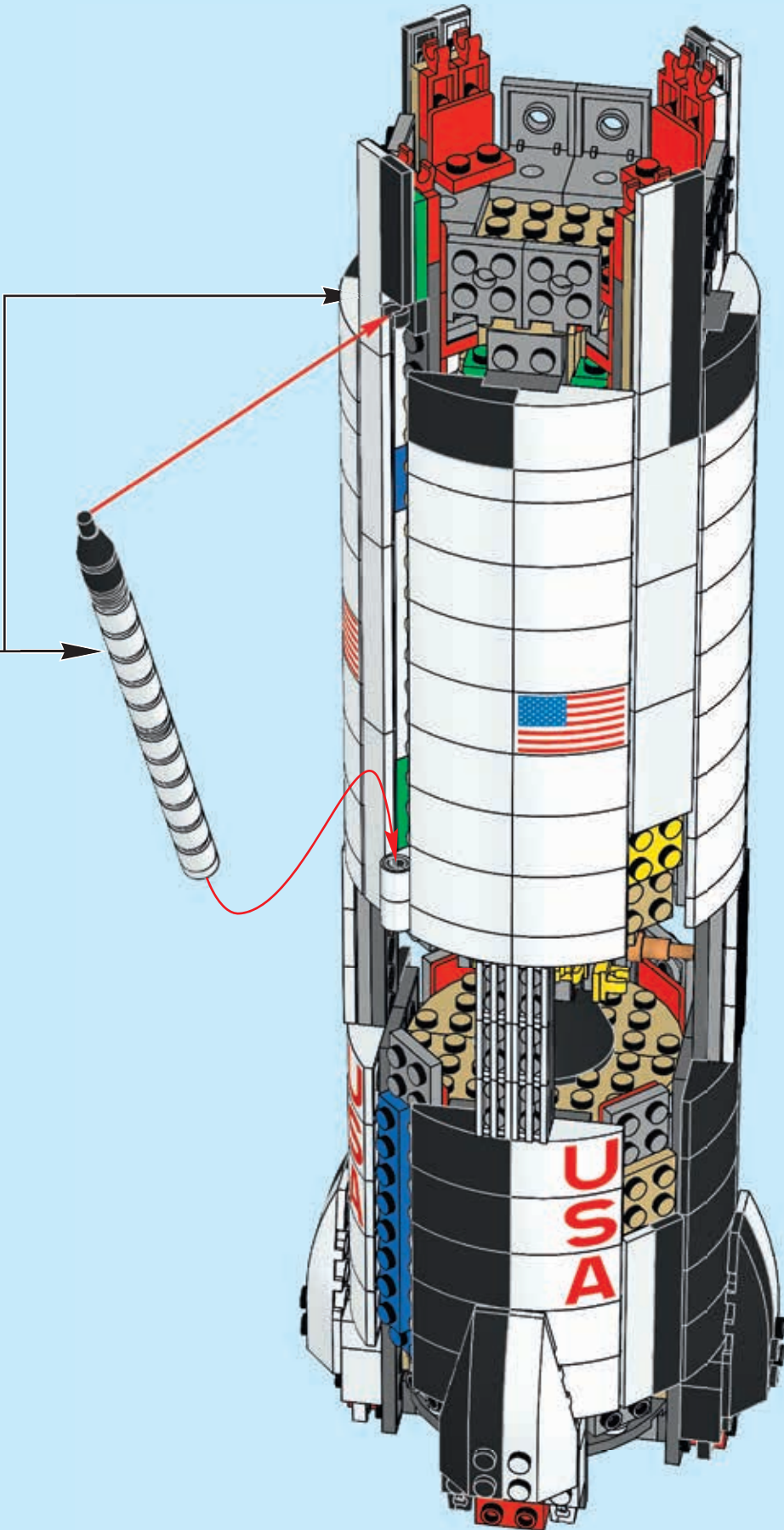


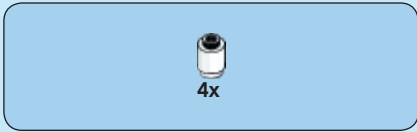
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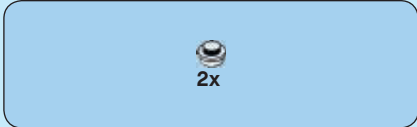
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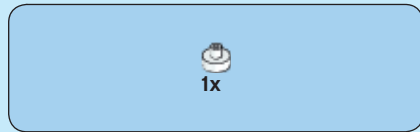




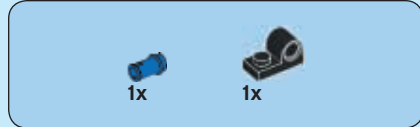
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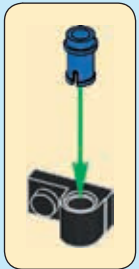
88



89

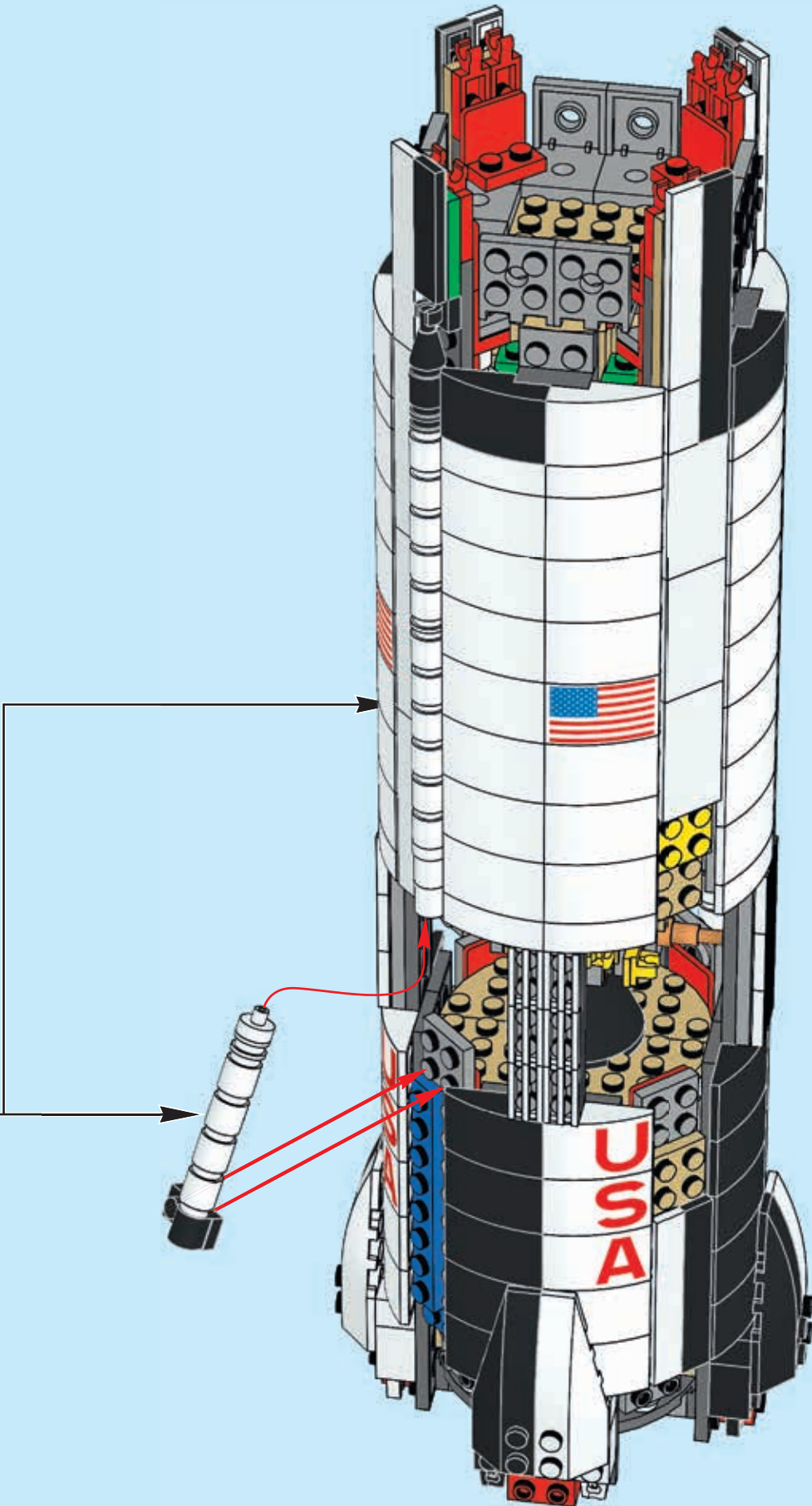


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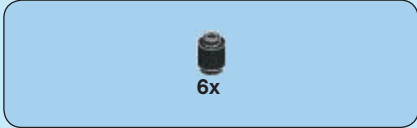


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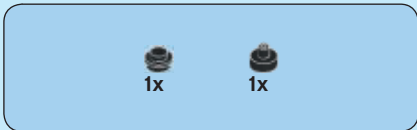
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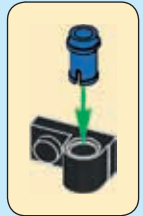
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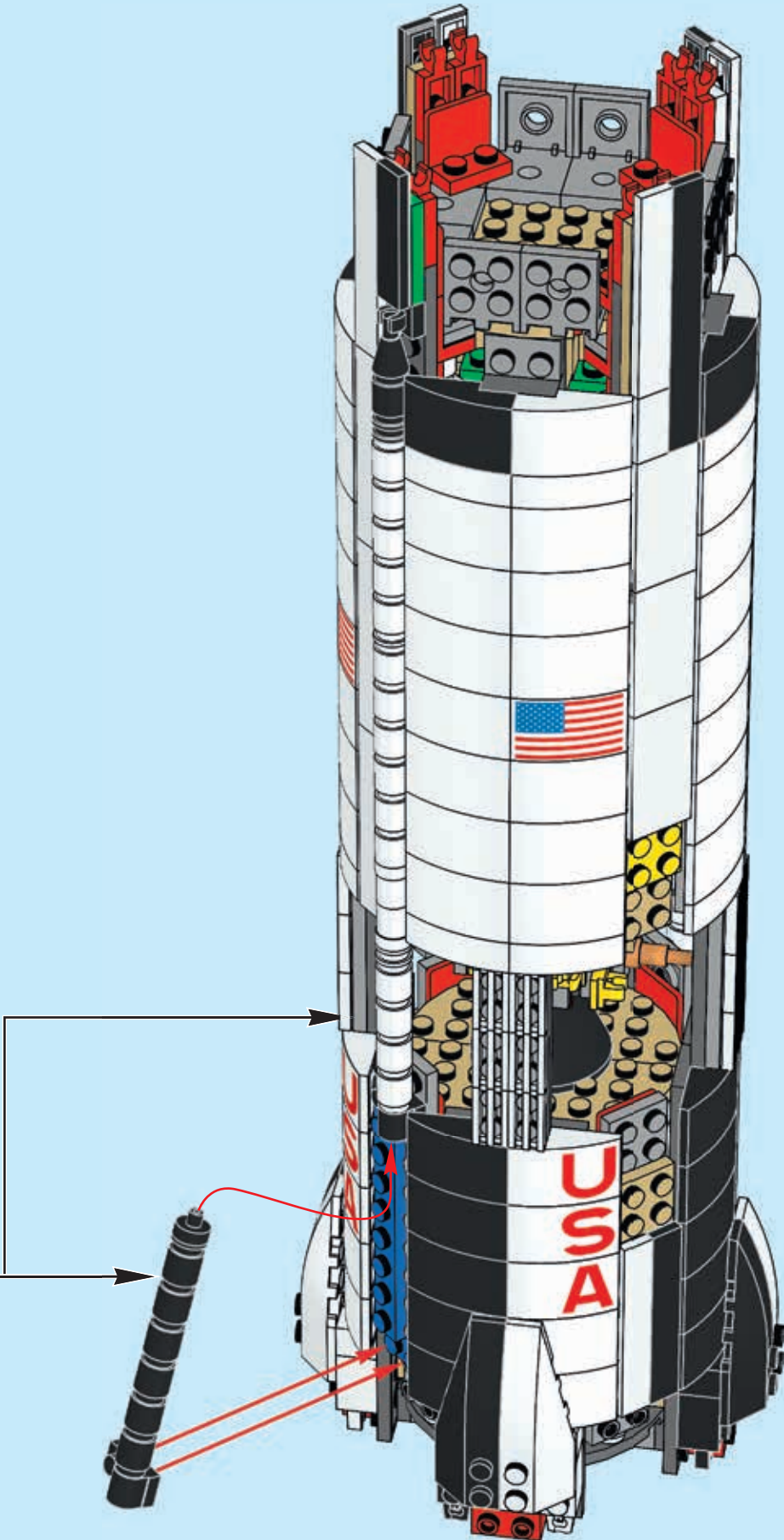
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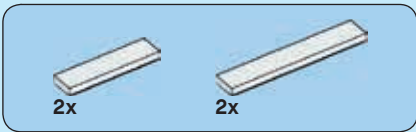


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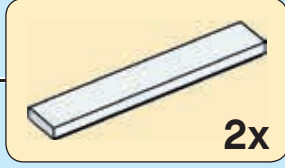
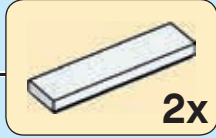
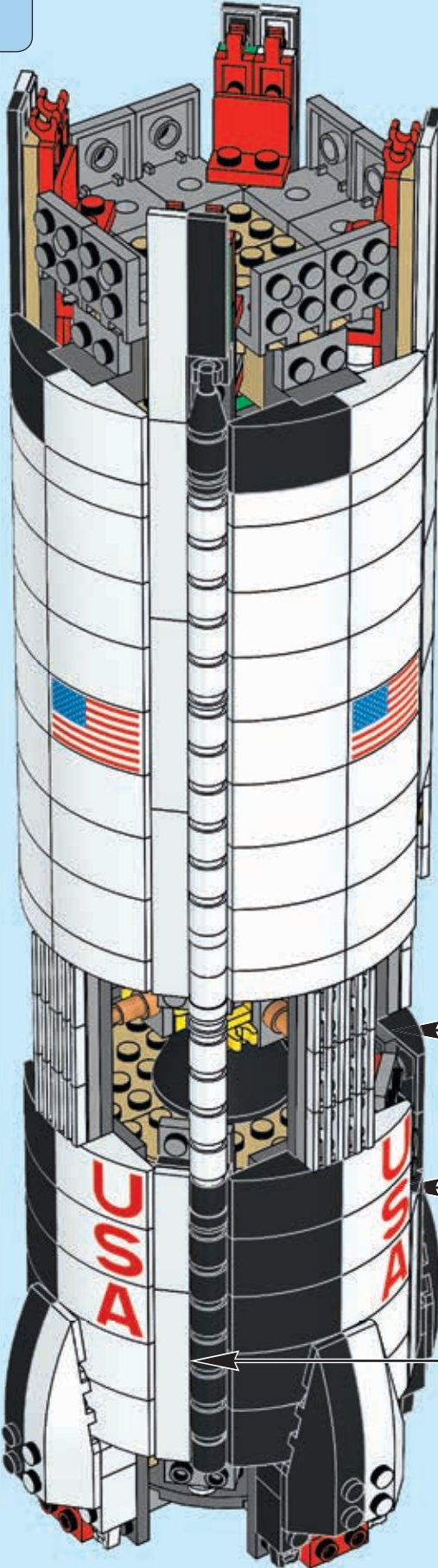


2x





96



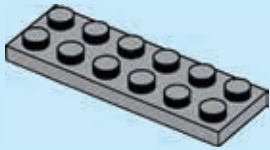


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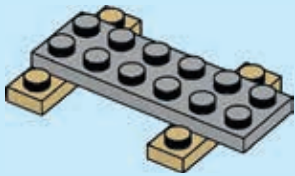
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97



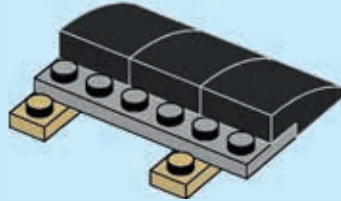
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98



3x

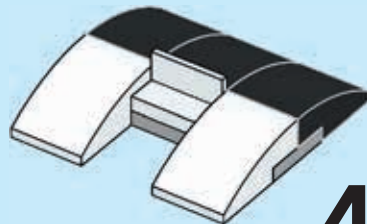
99



2x

1x

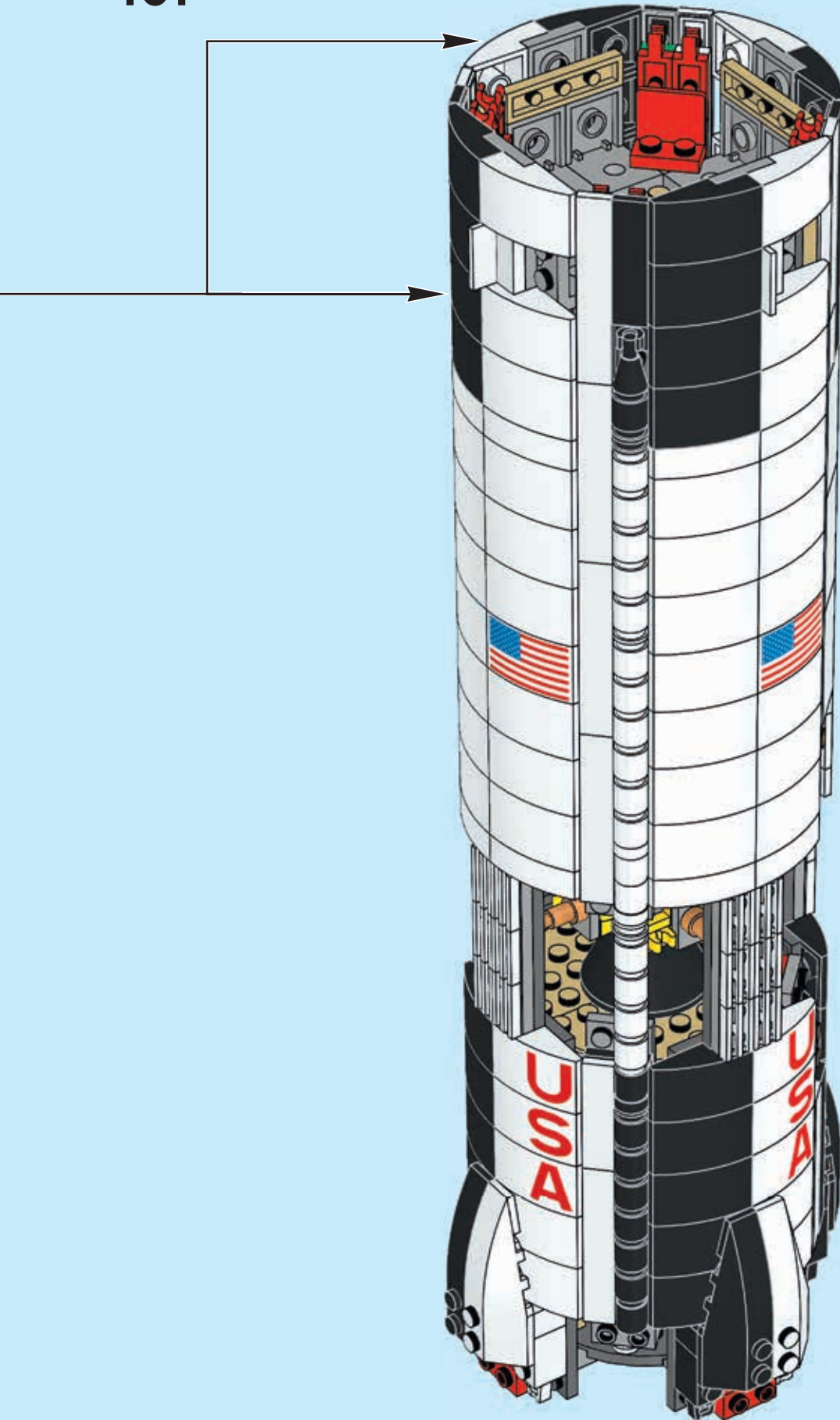
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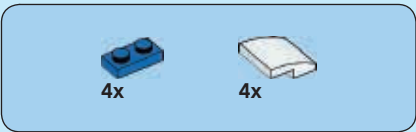


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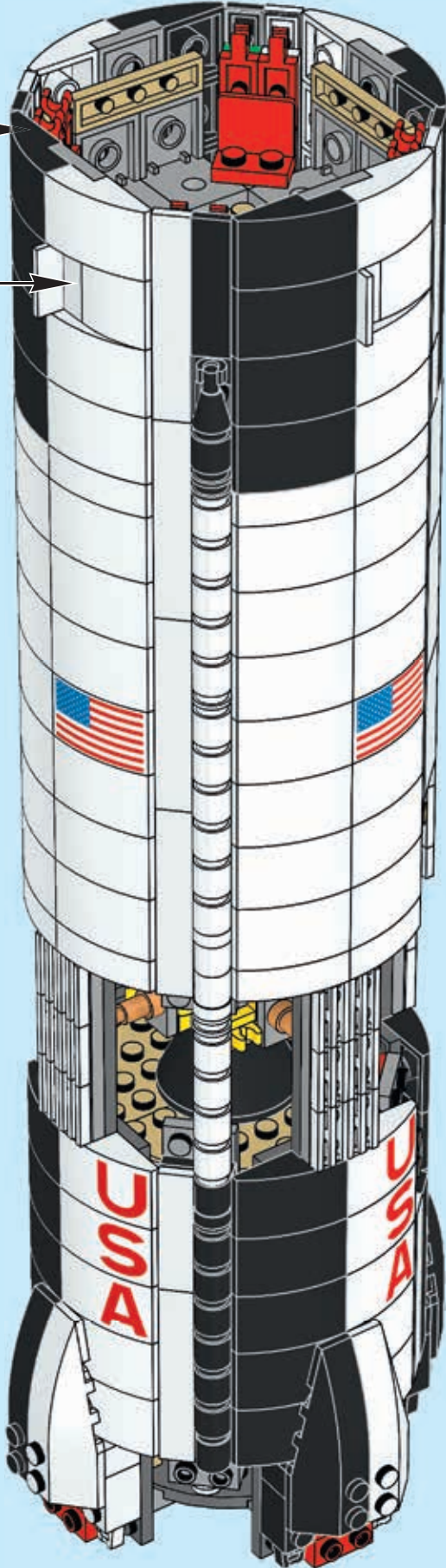
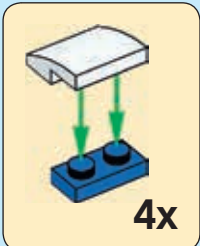


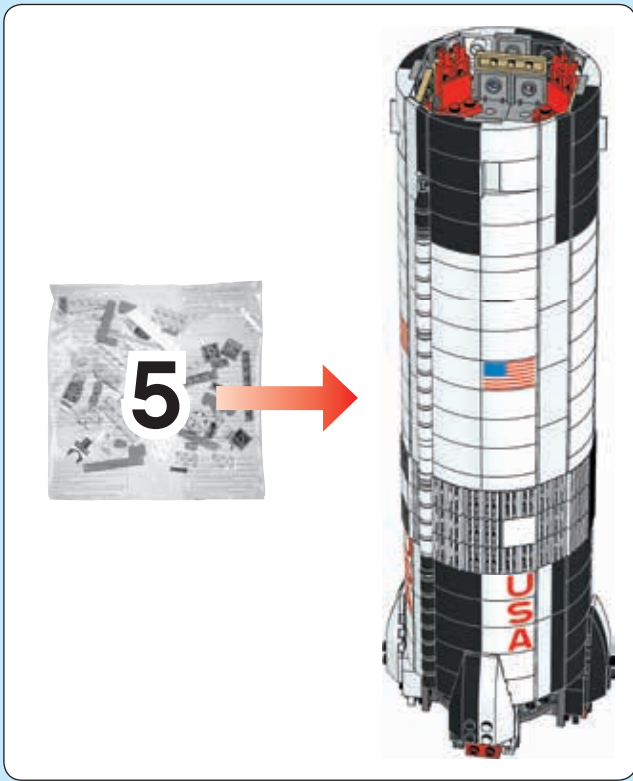
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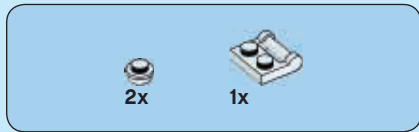


102





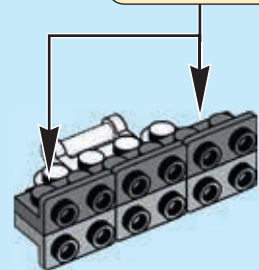
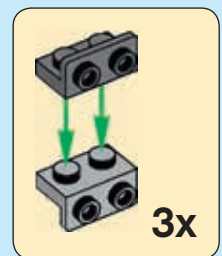
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104



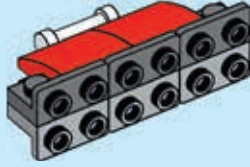
105





2x

# 106

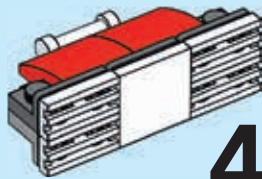


4x



1x

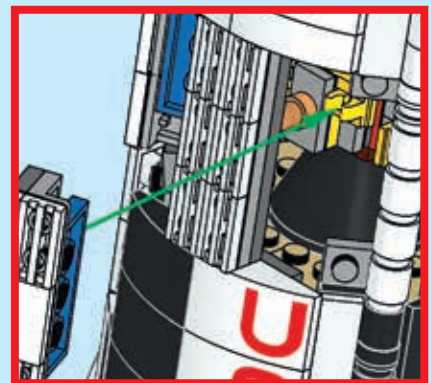
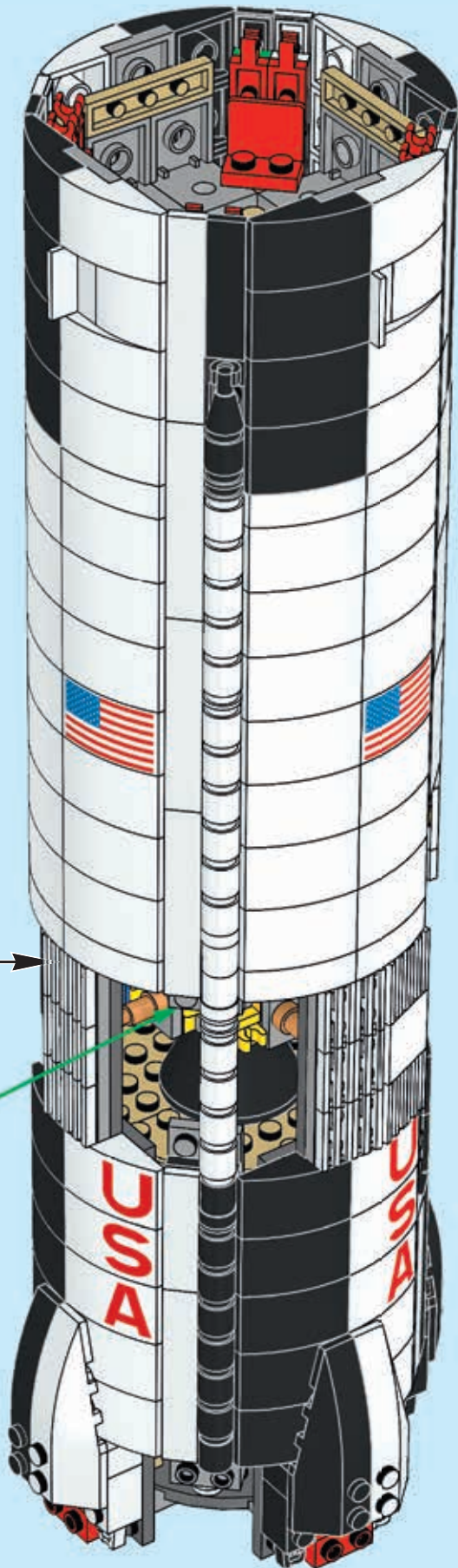
# 107



# 4x



108





4x



1x

109



2x



1x

110



3x

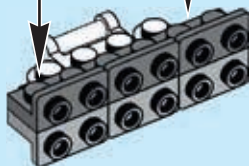


3x

111

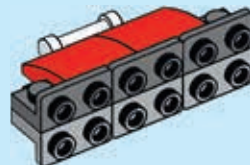


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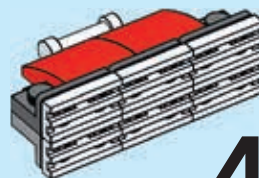
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112

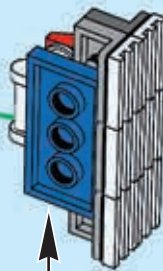
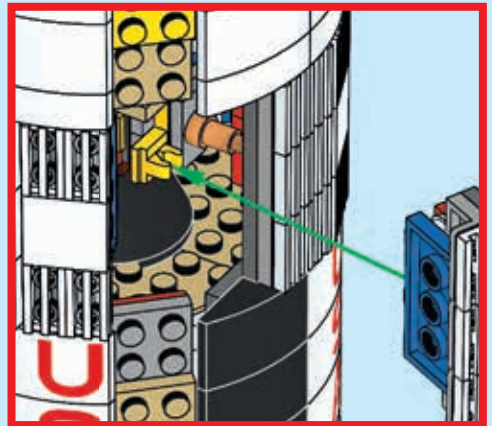
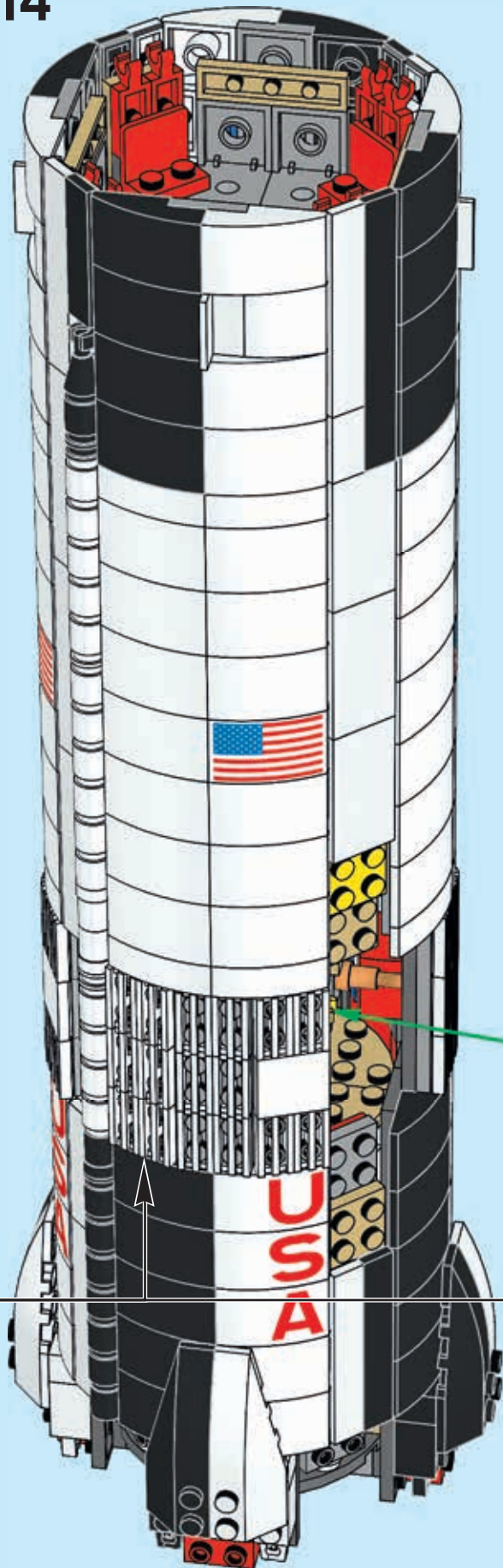


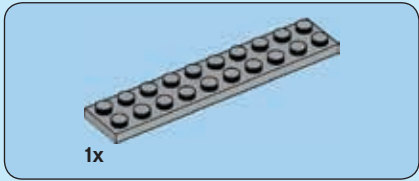
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113

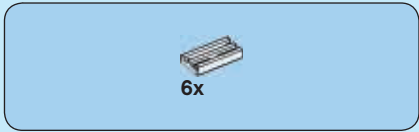
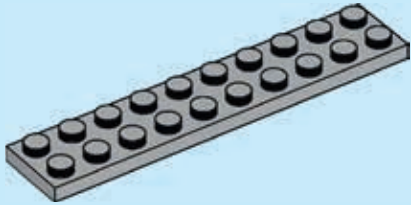


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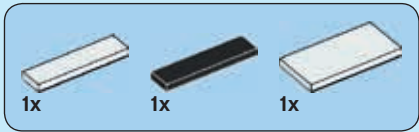
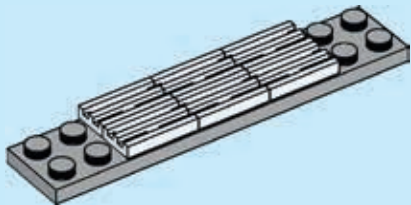




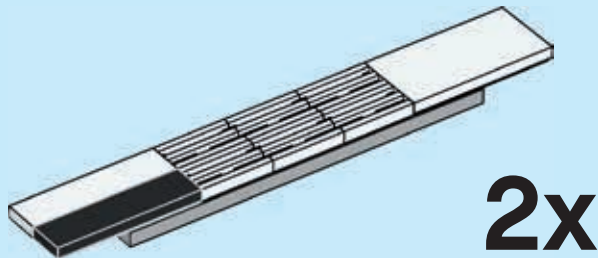
115



116

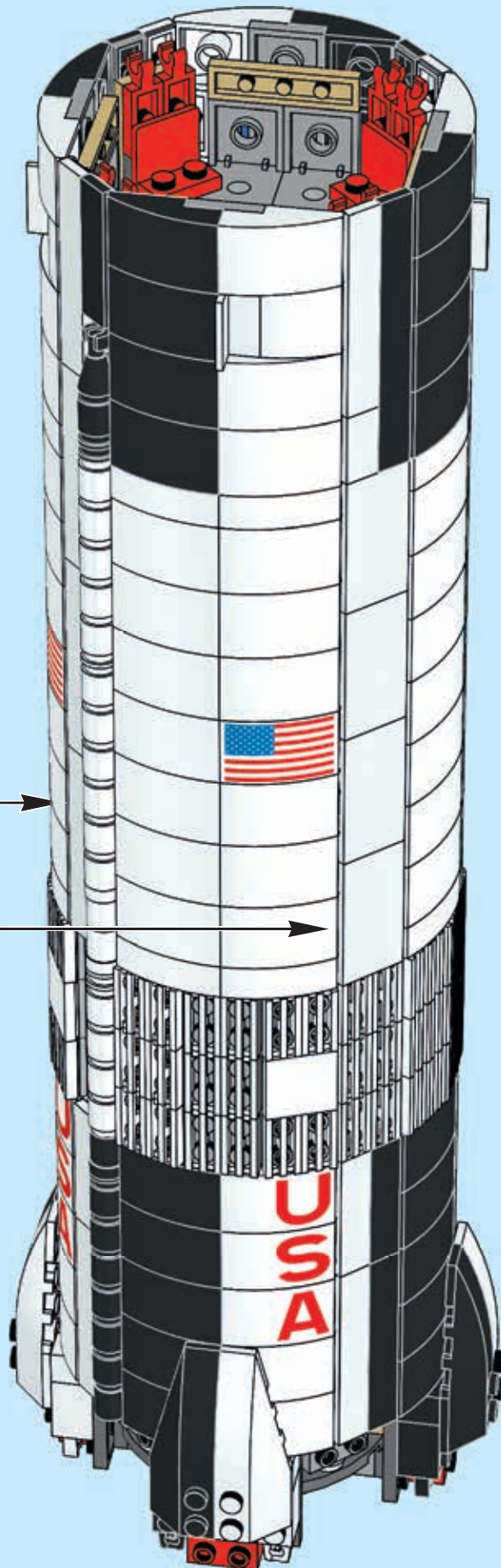


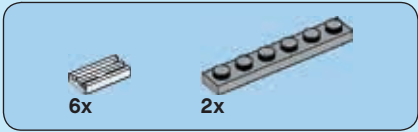
117



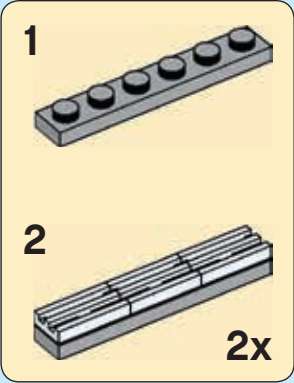
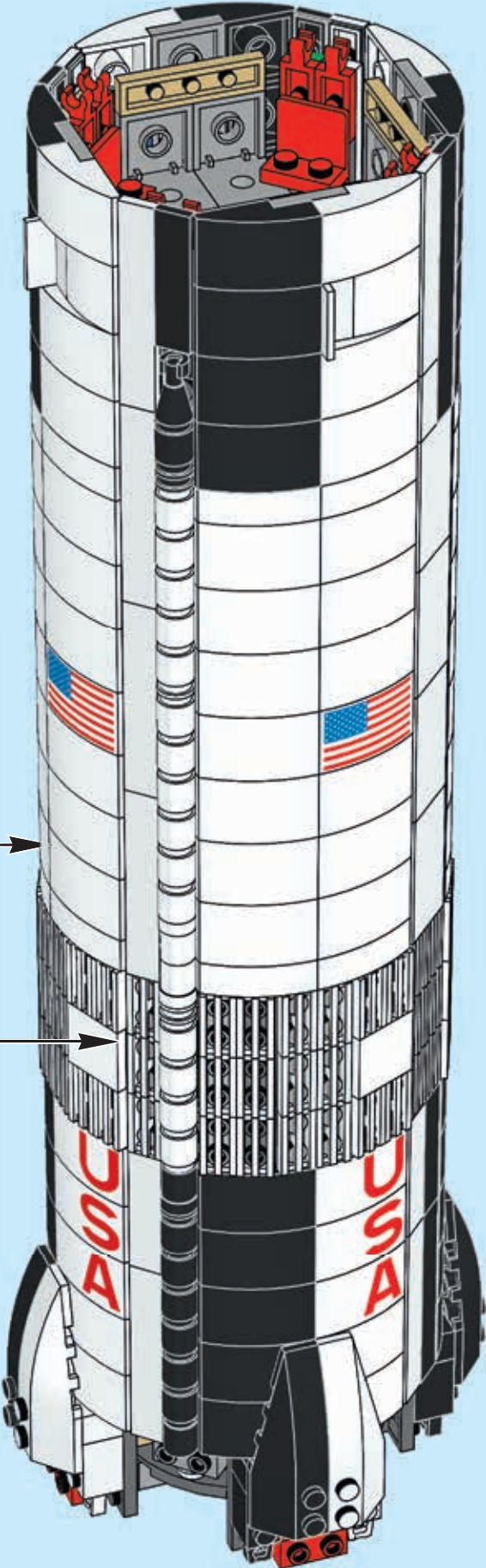


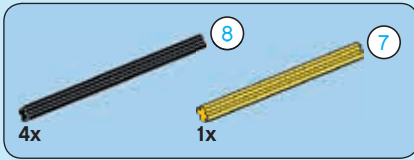
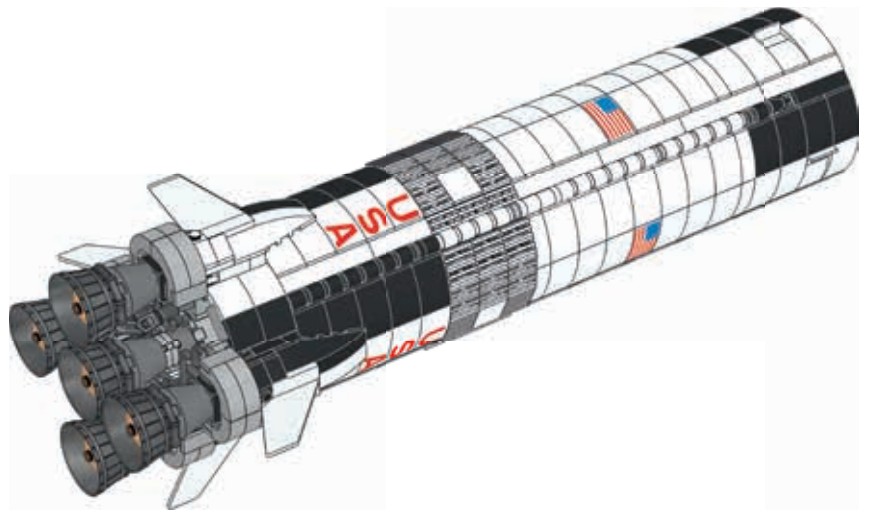
118



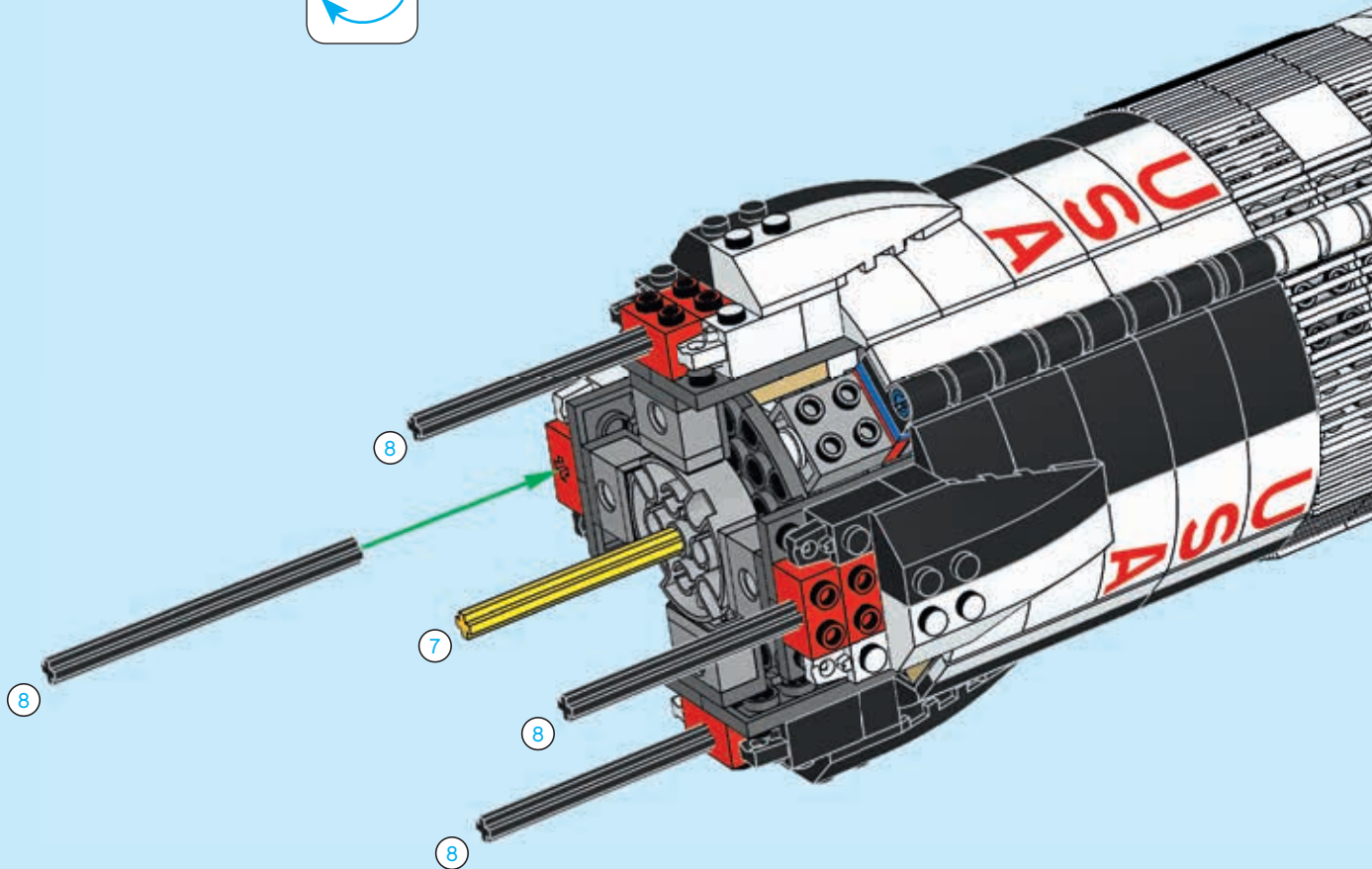
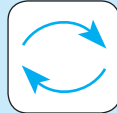


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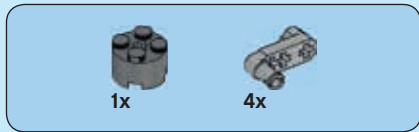




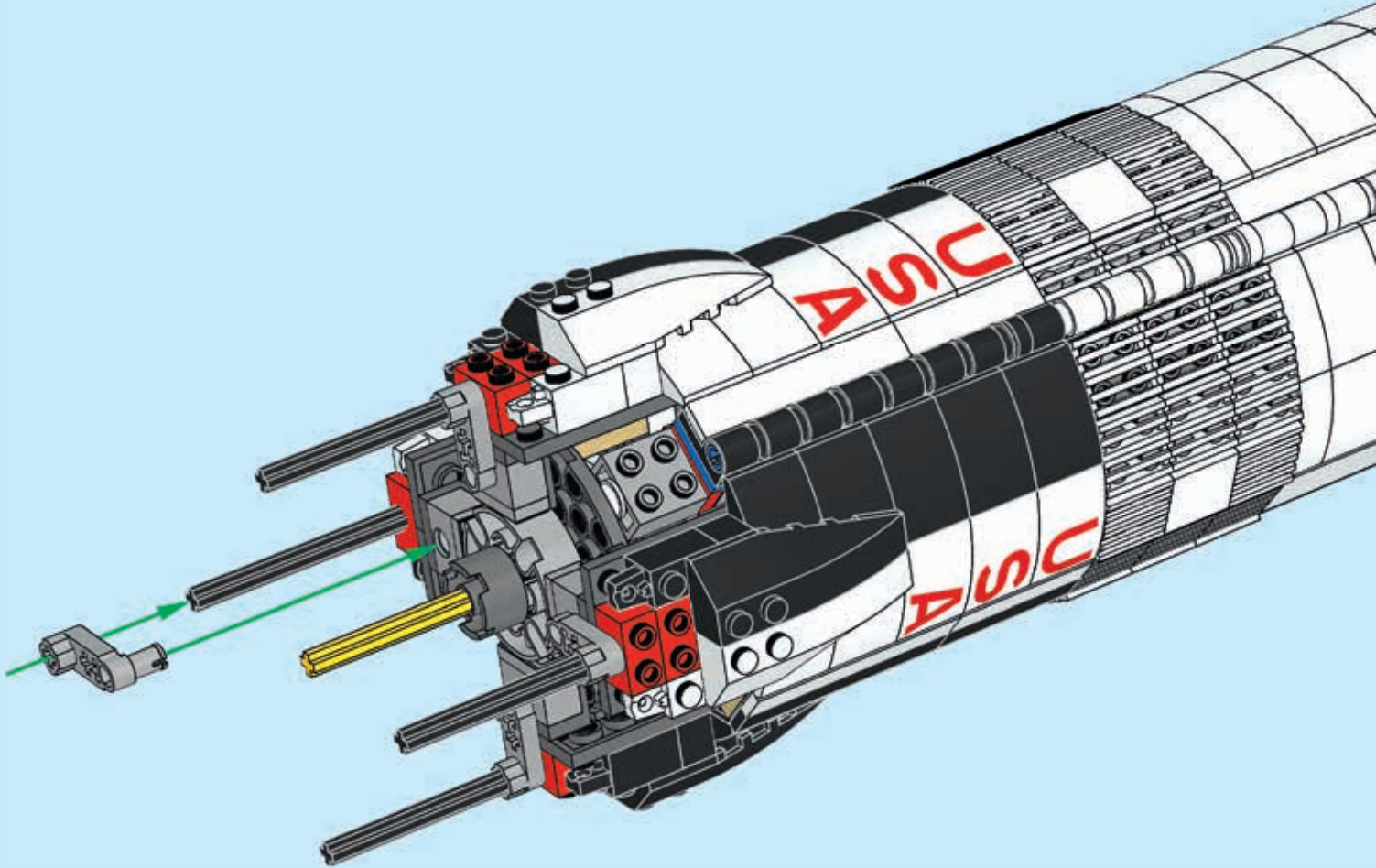
120







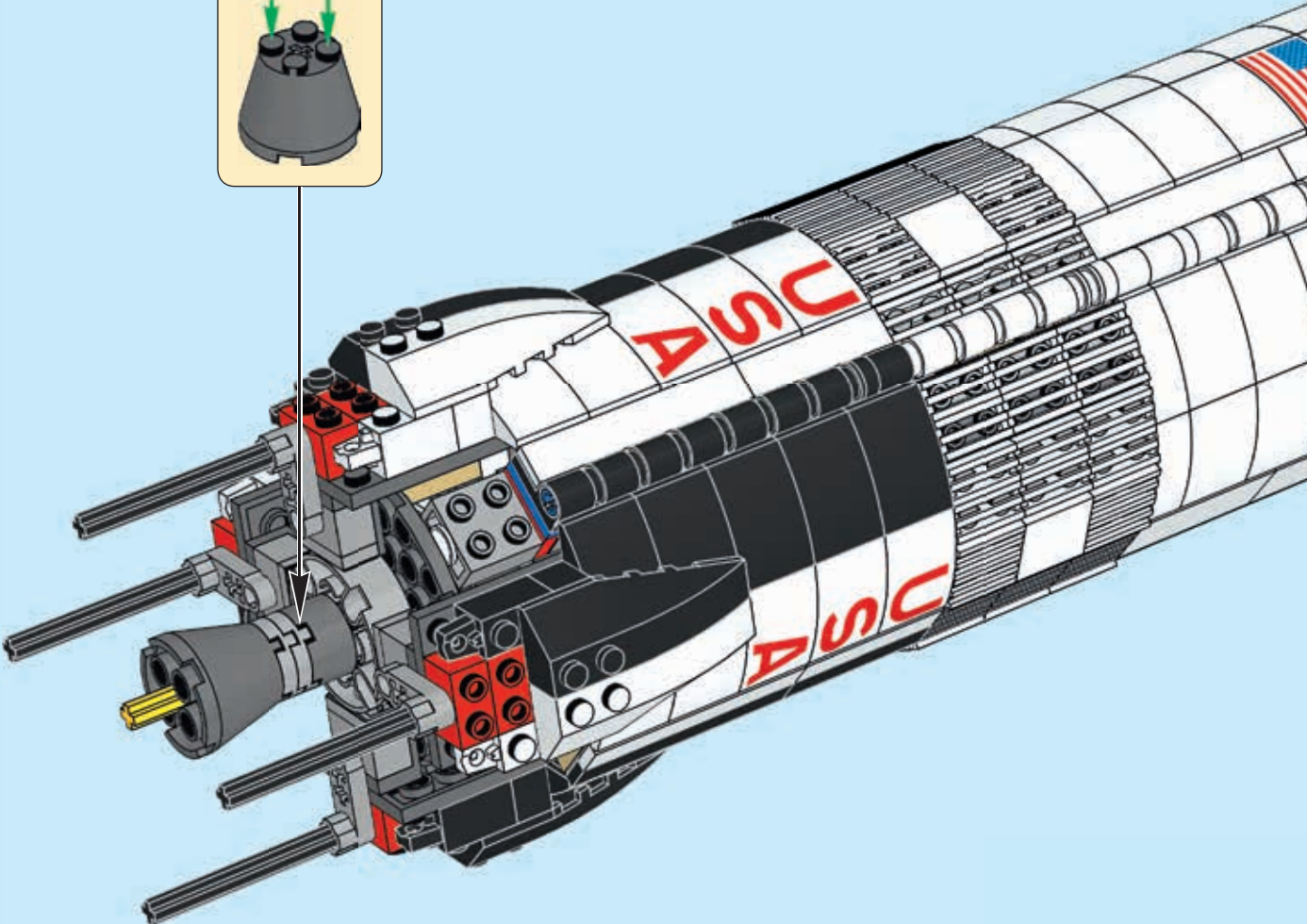
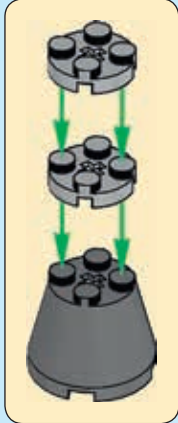
121





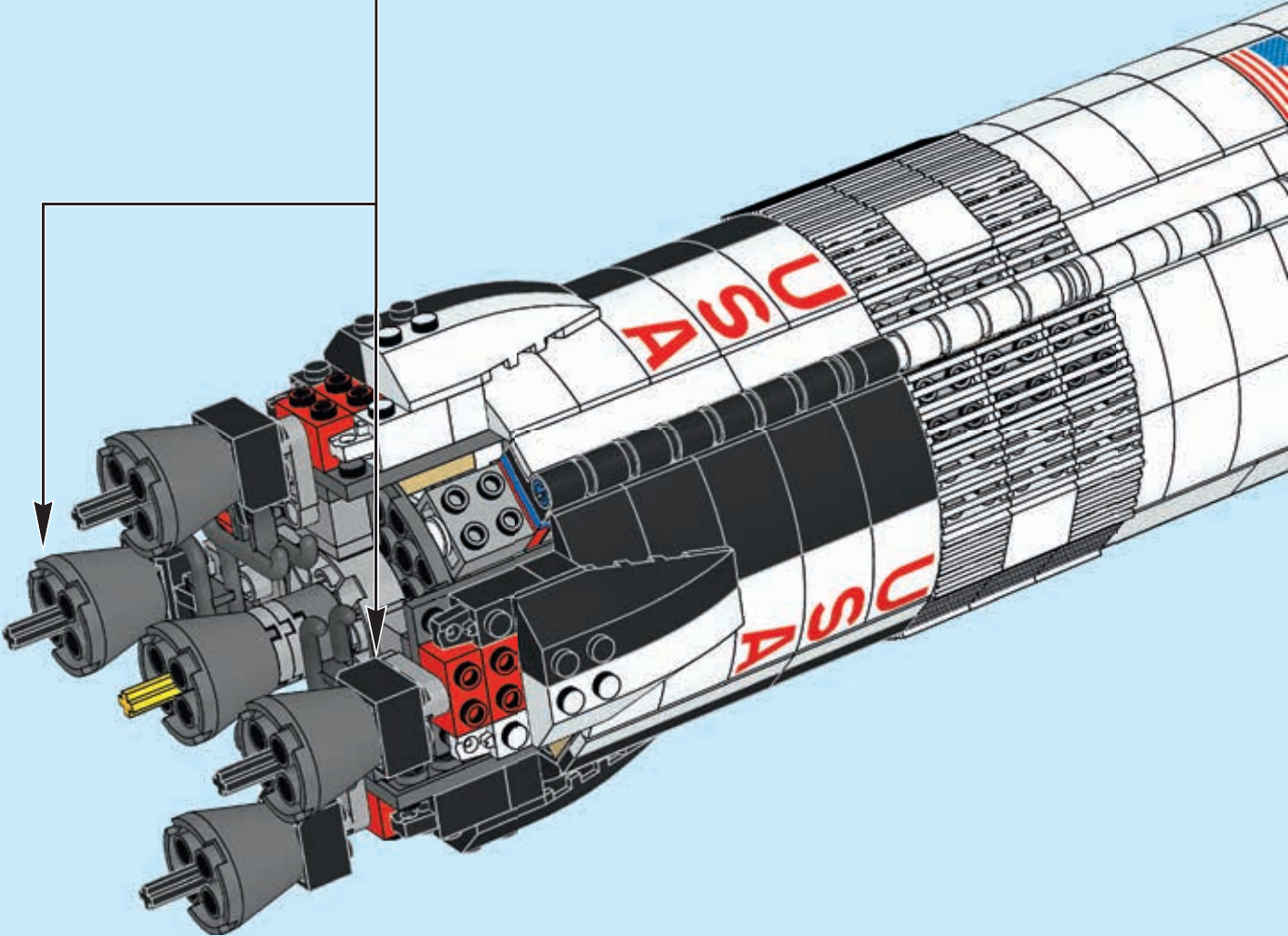
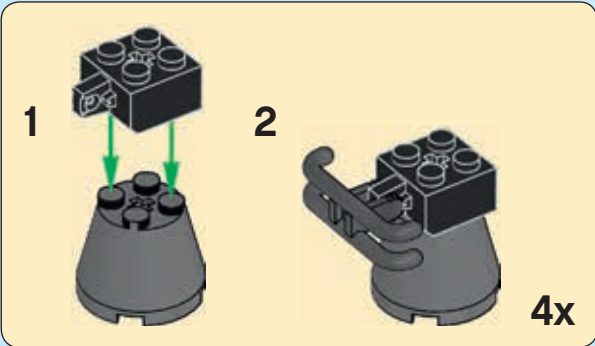


122





# 123





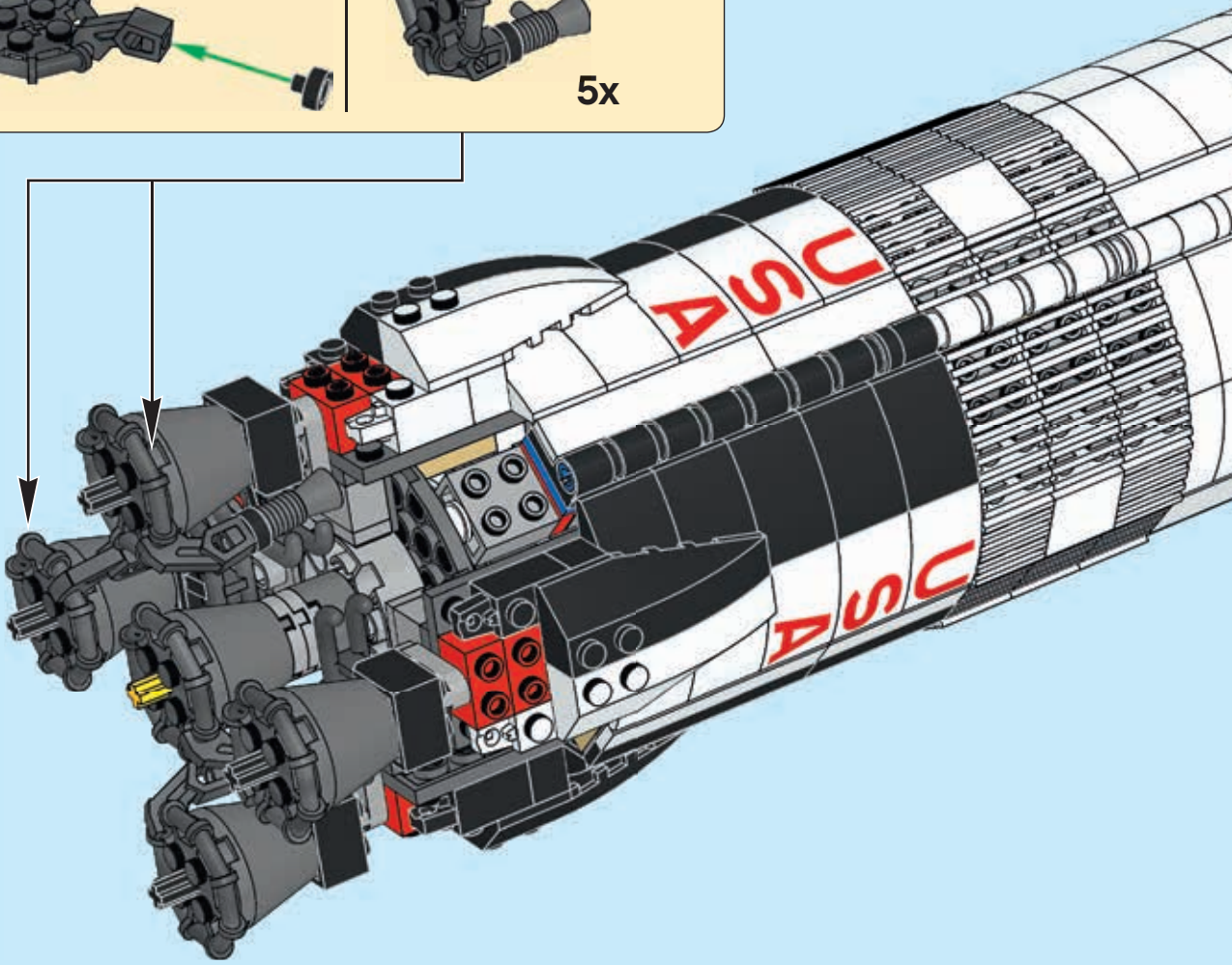
# 124

1

2

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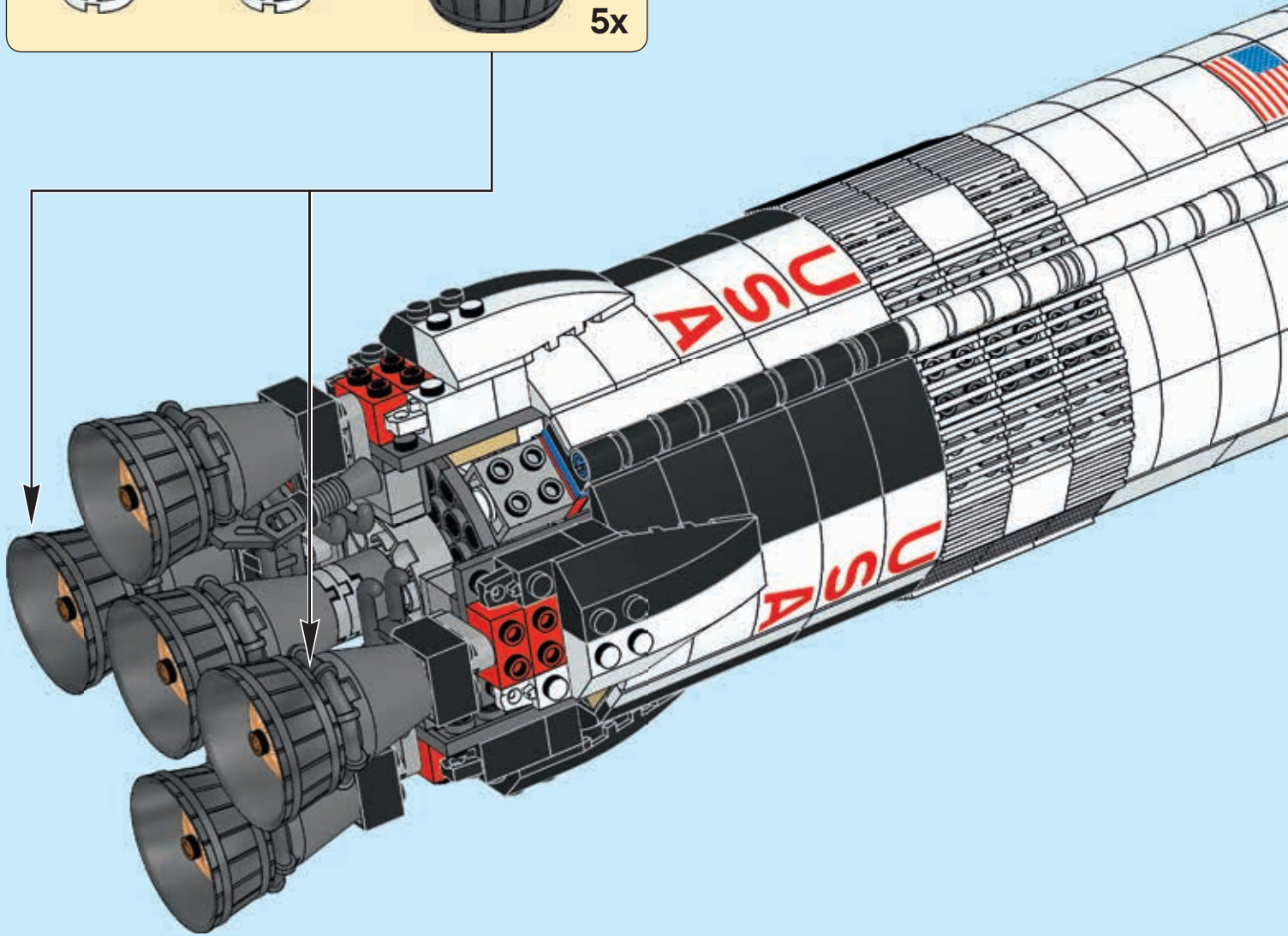
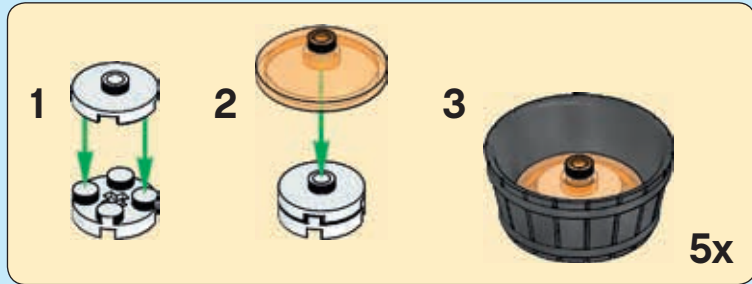
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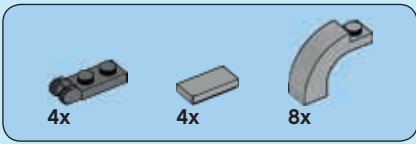




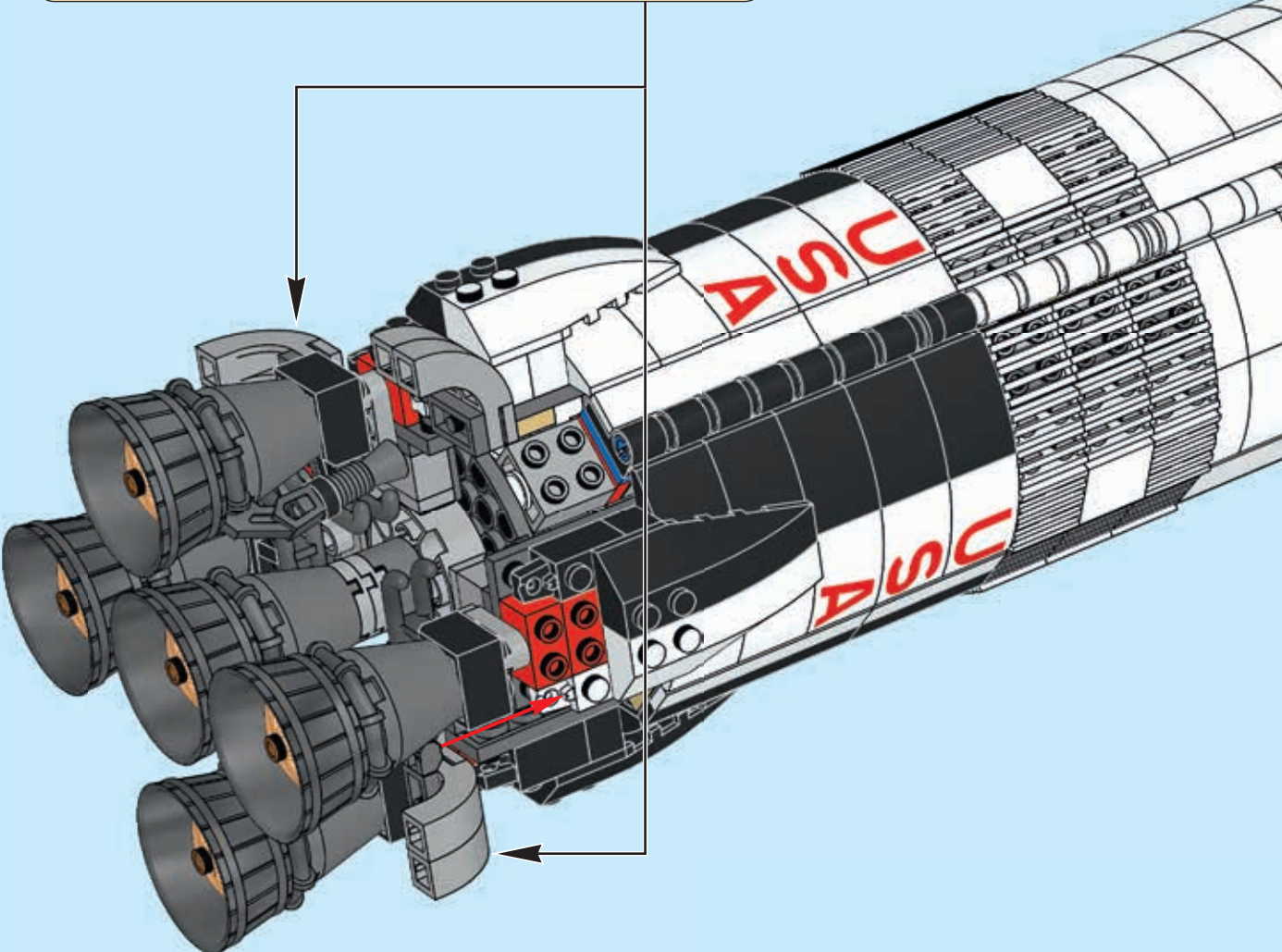
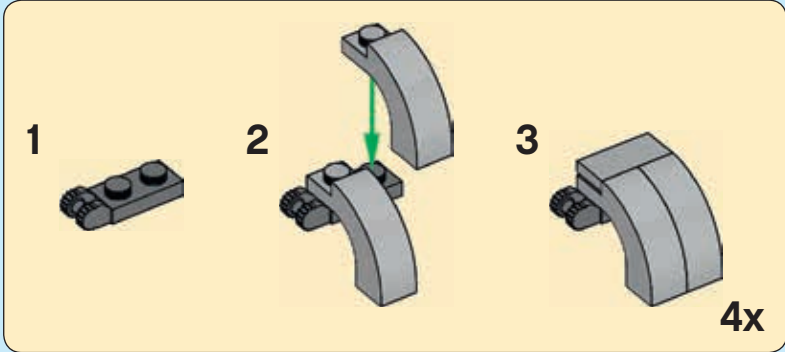
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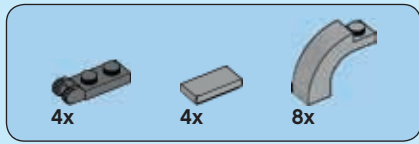




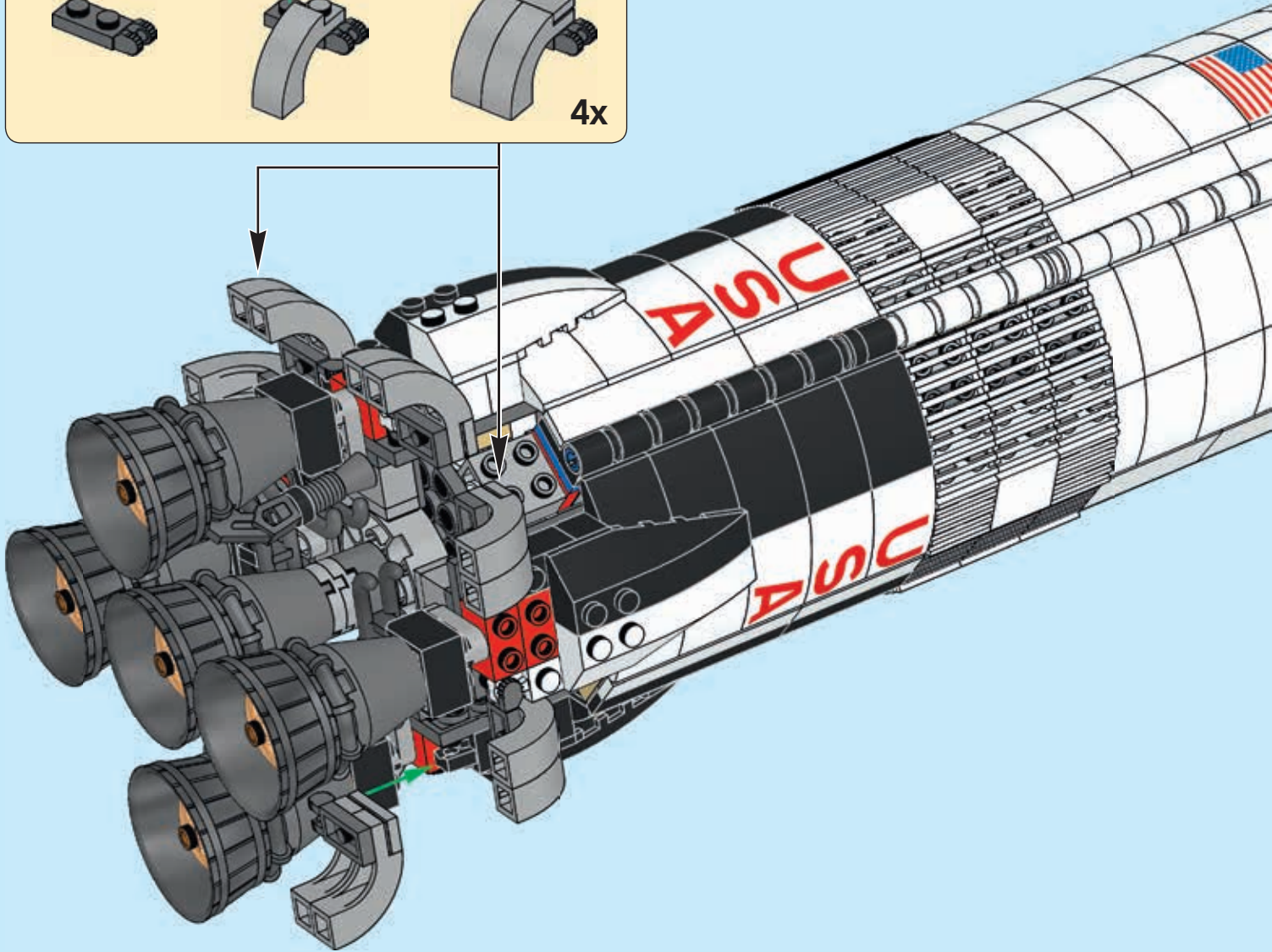
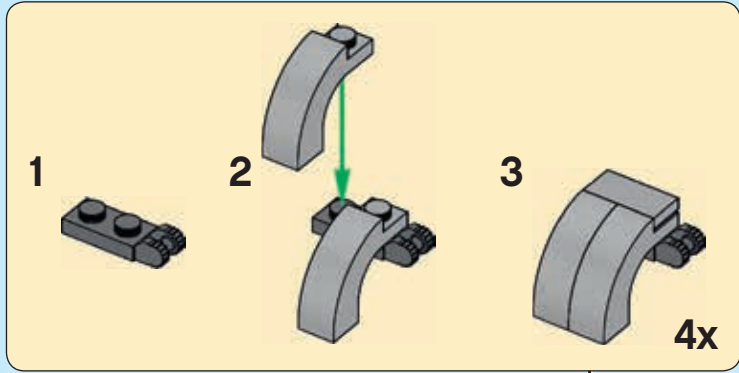


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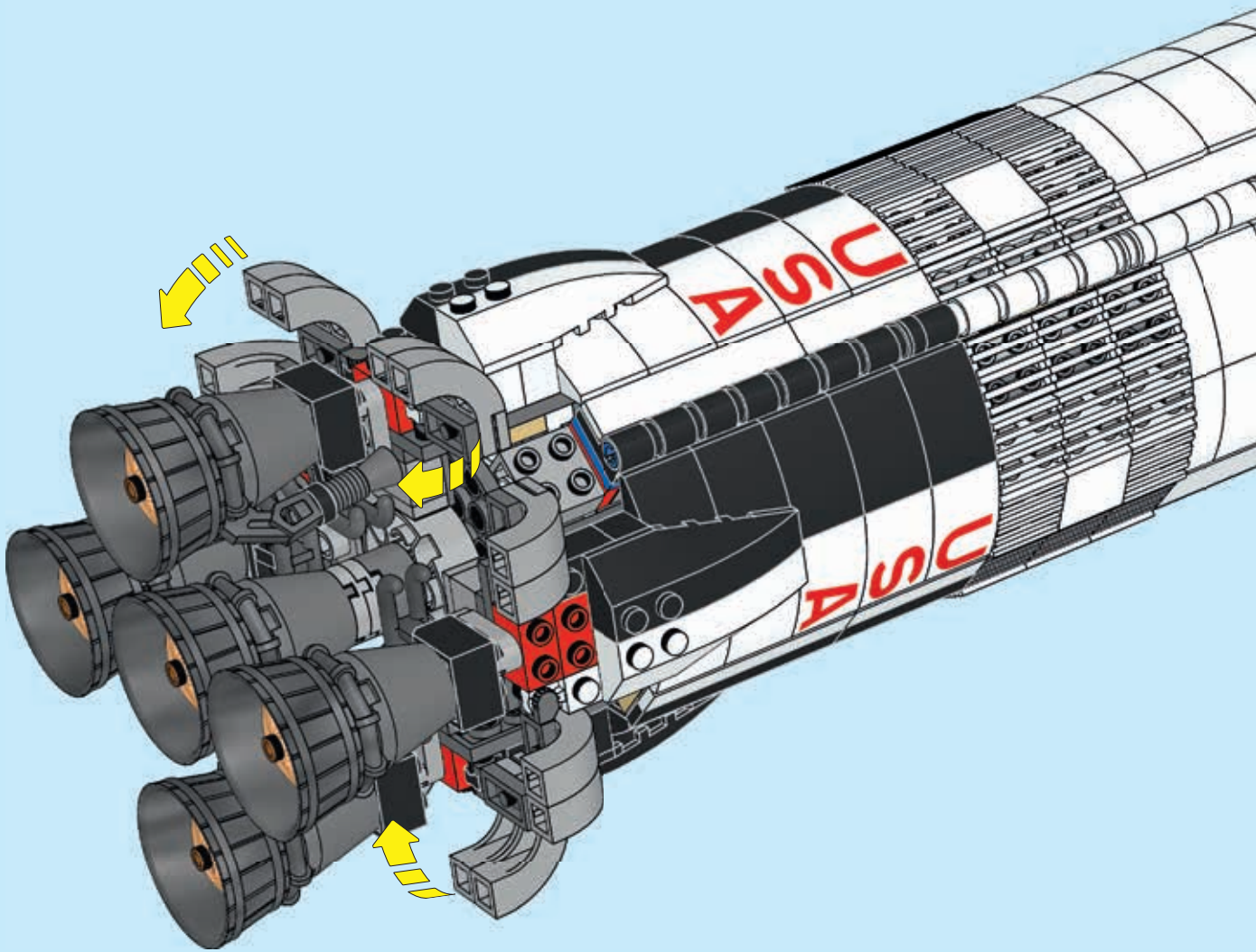




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129



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131



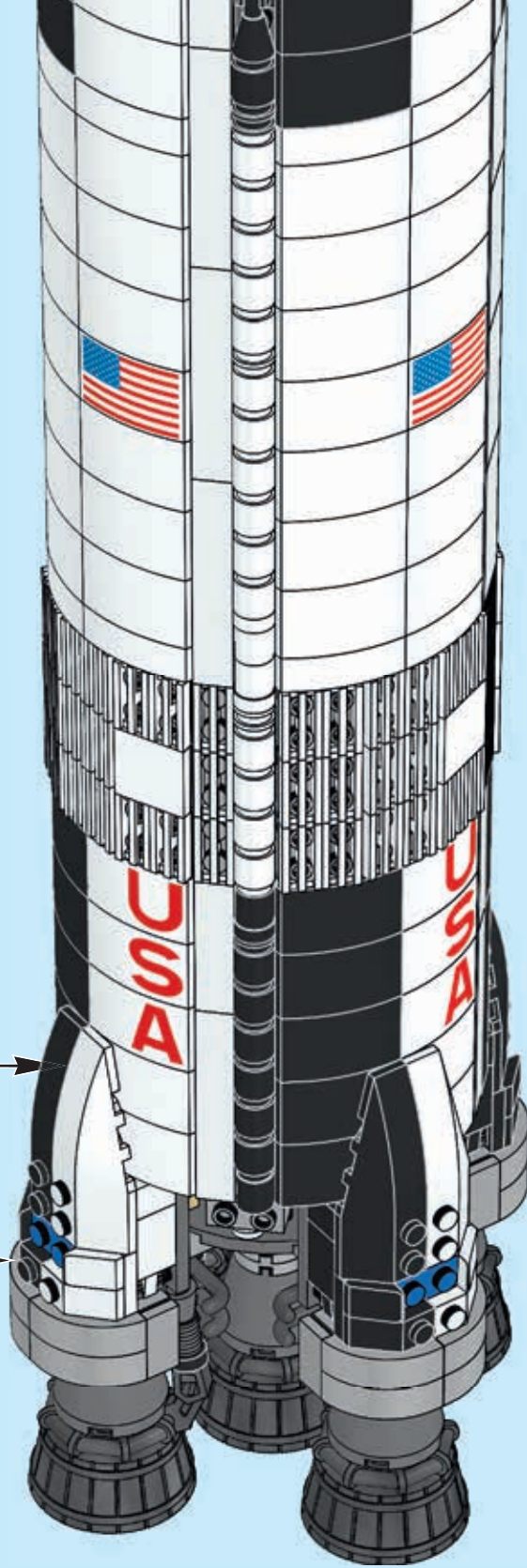
132

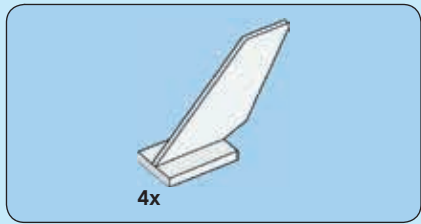


4x

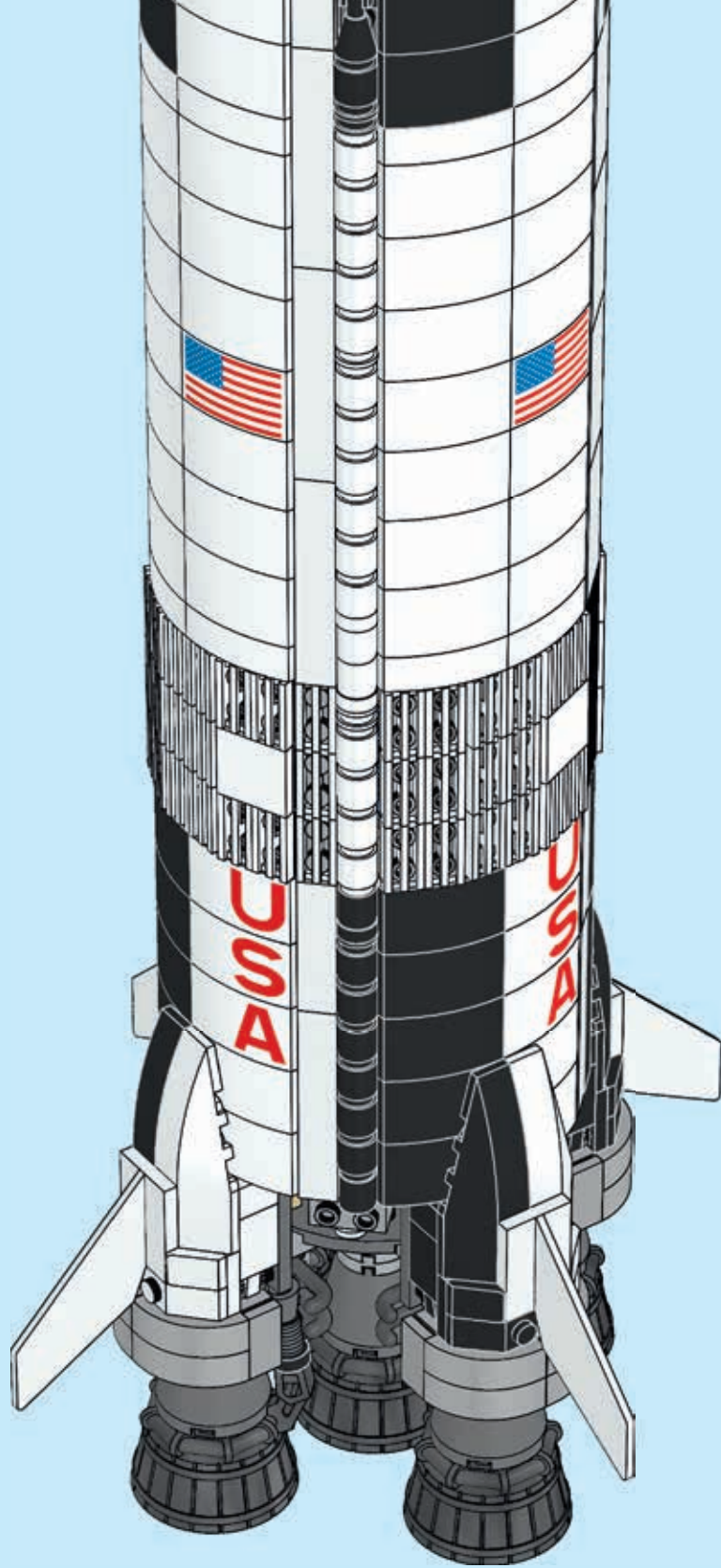


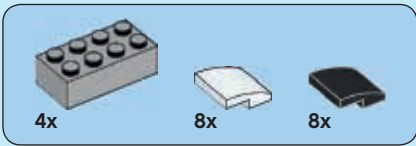
133



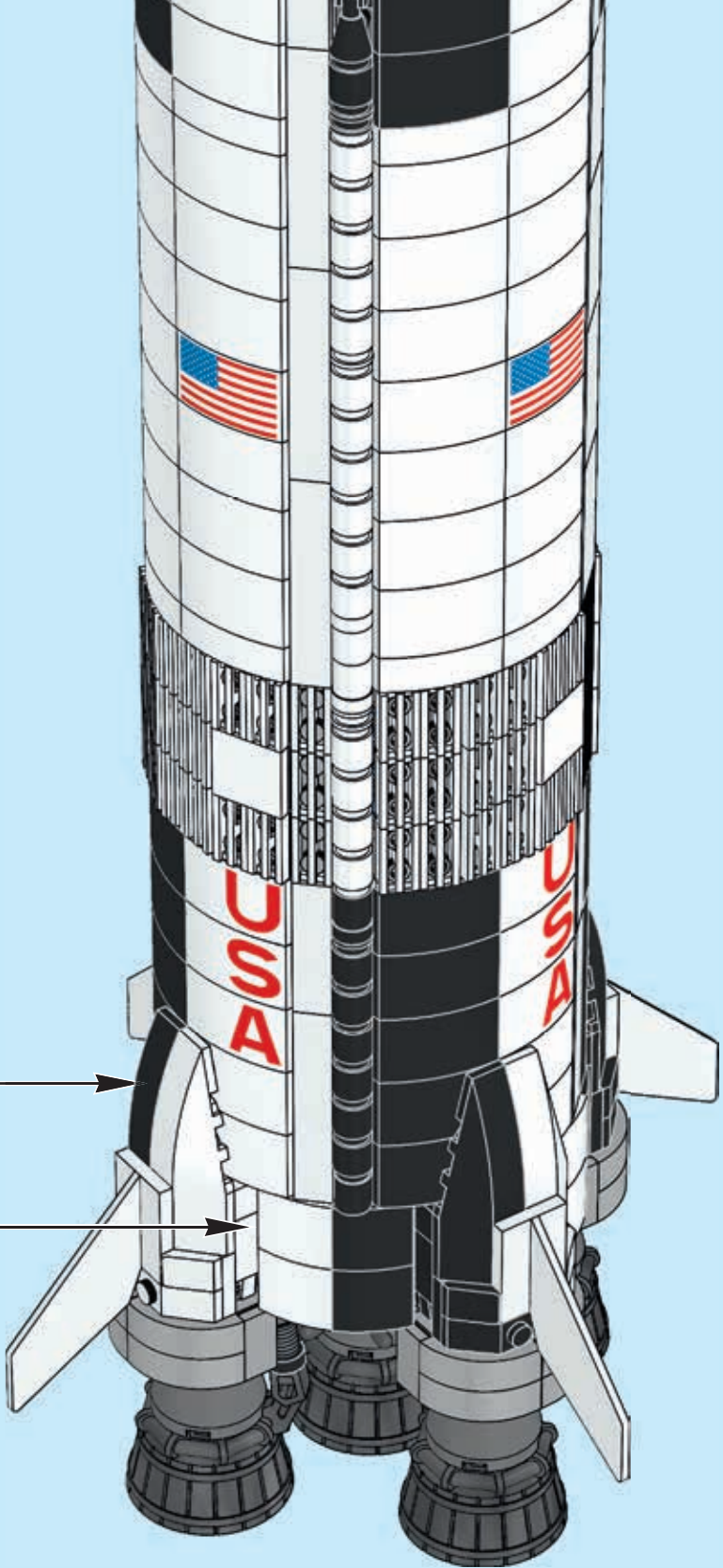
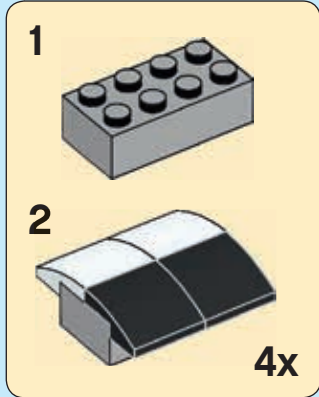


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# 135



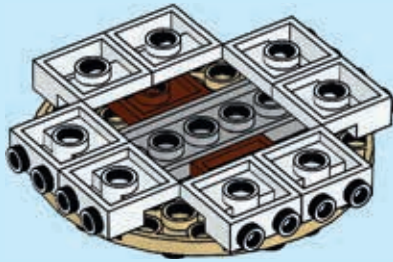




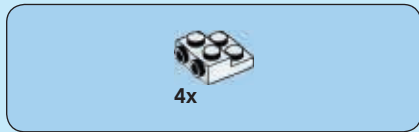
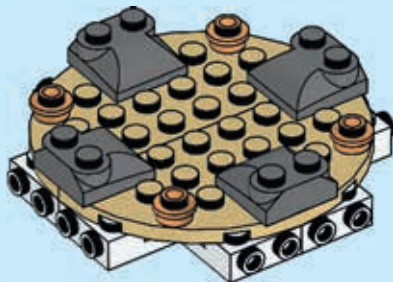
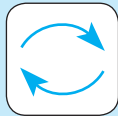




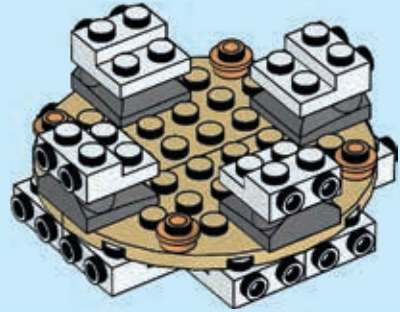
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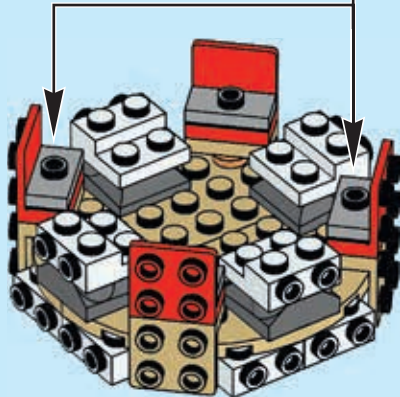
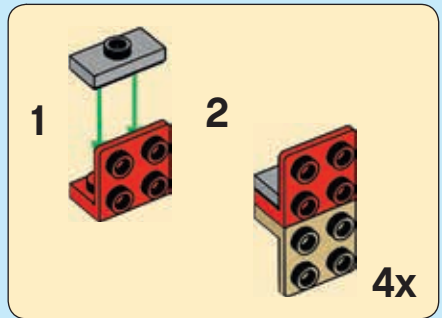
140



141

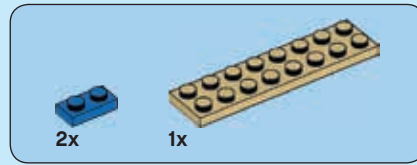
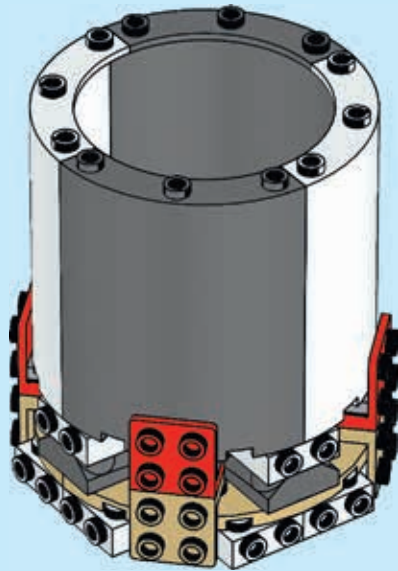


142

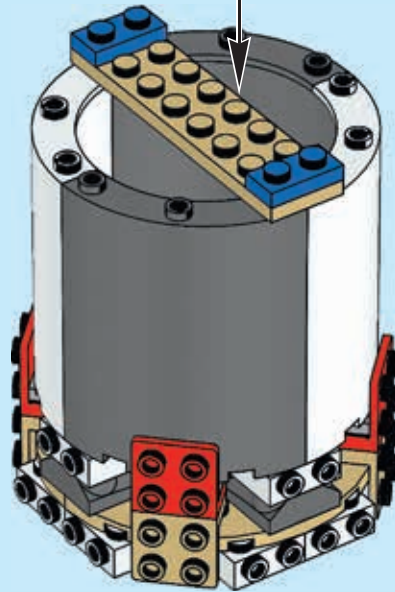
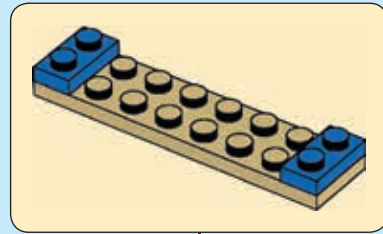




143

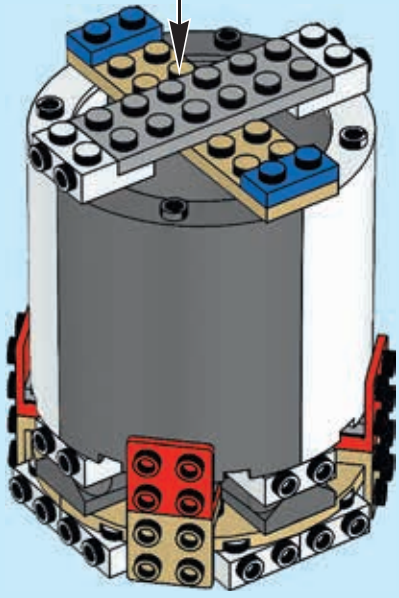
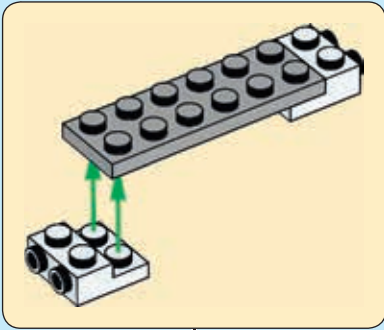


144

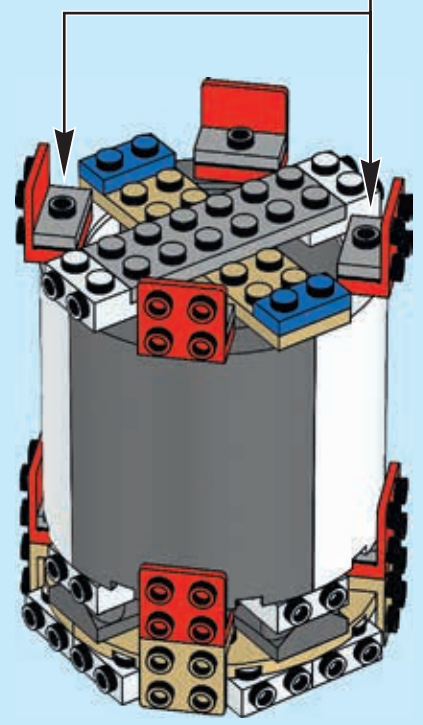
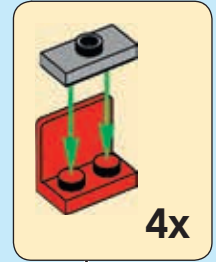




145

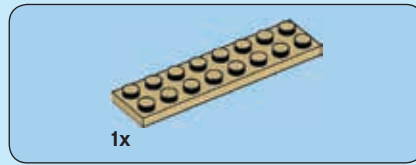
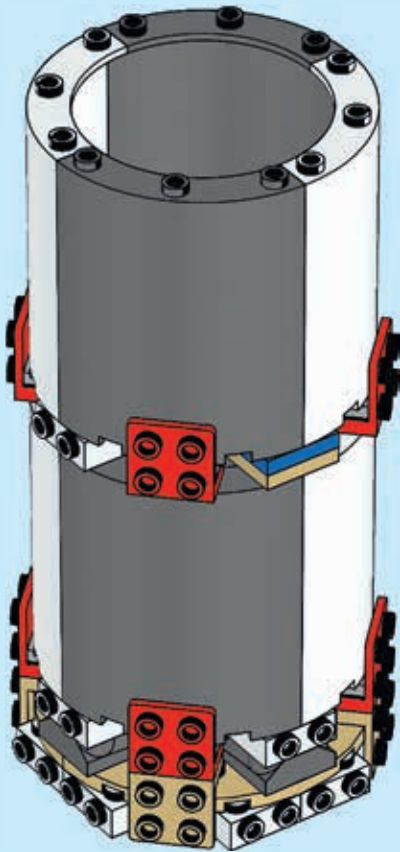


146

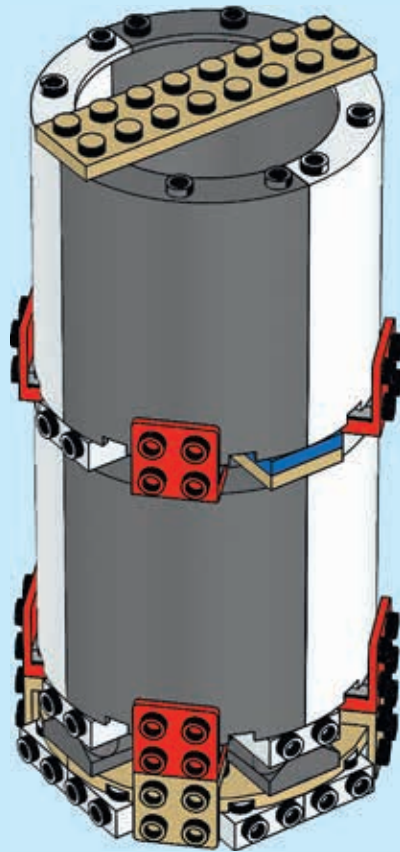




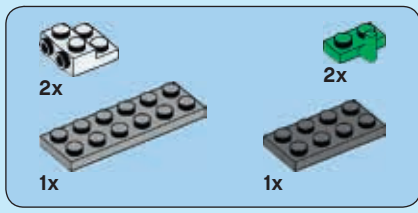
147



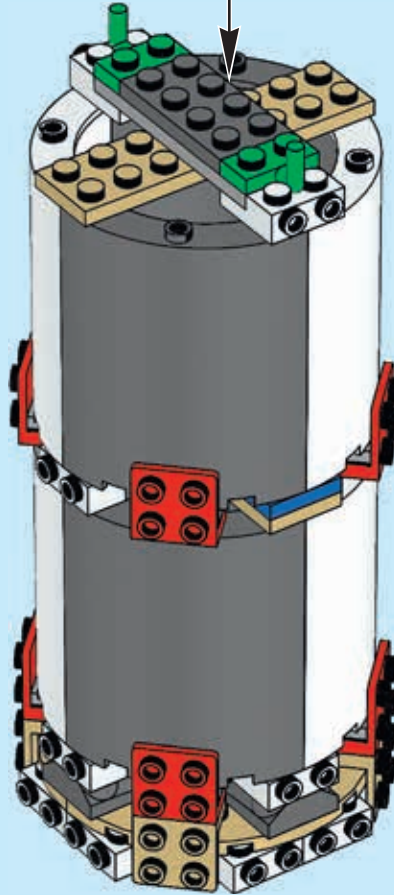
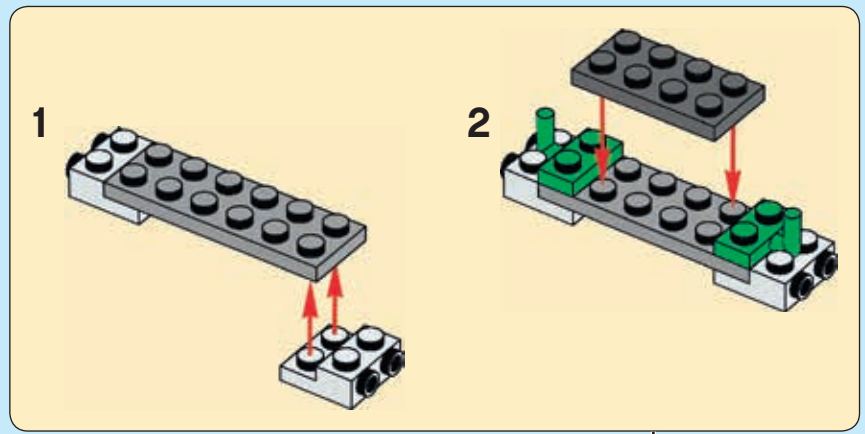
148

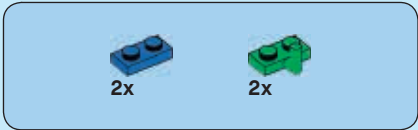




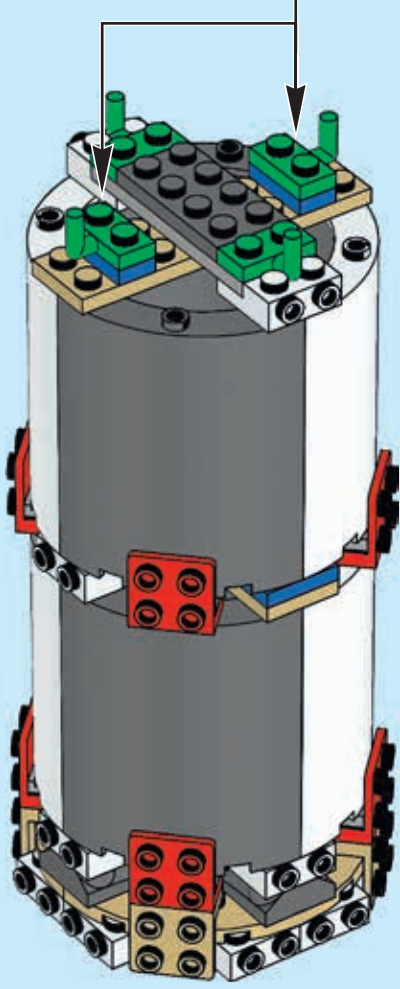
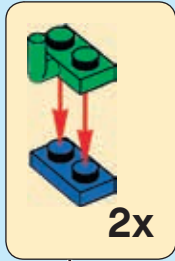


149

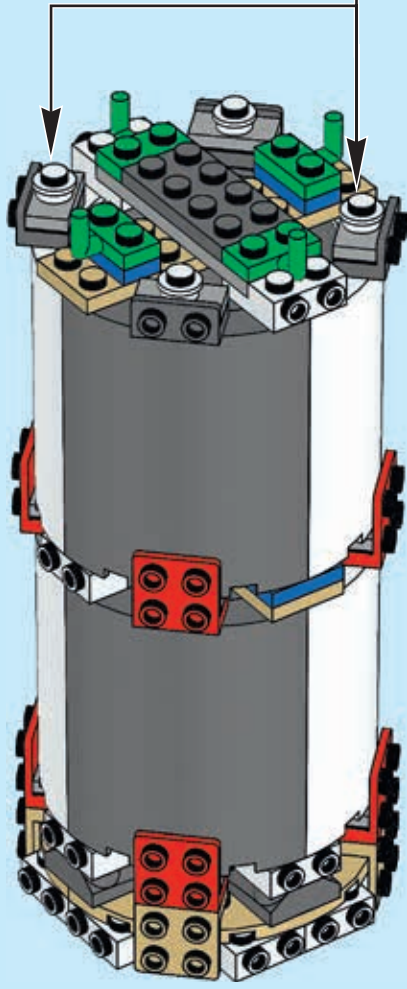
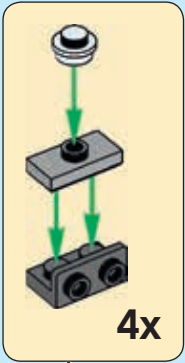




# 150

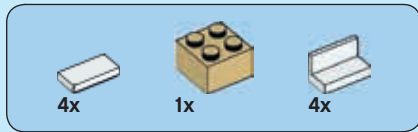
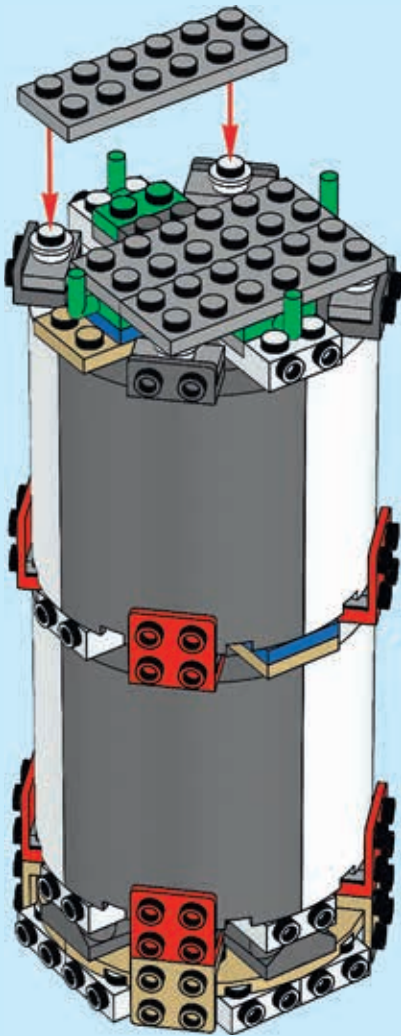


# 151

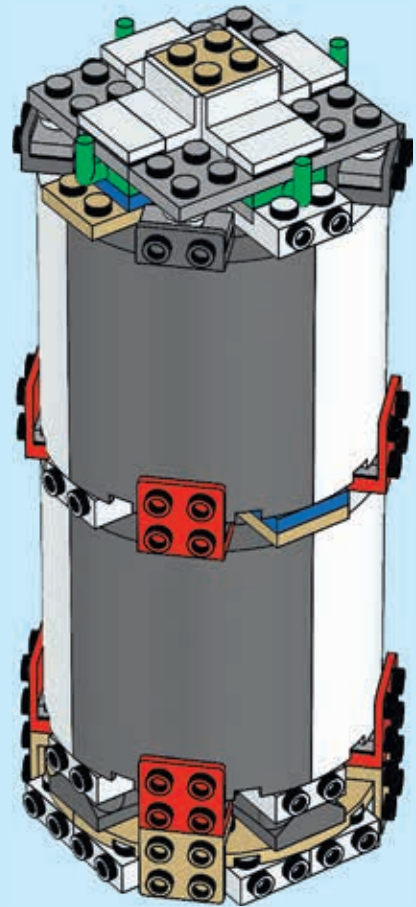




152



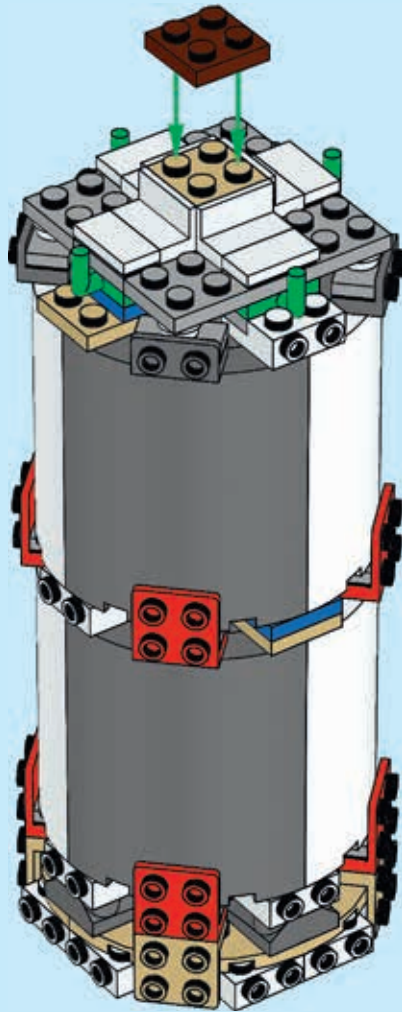
153





1x

154







4x



8x



4x



4x



4x

# 155

1



2



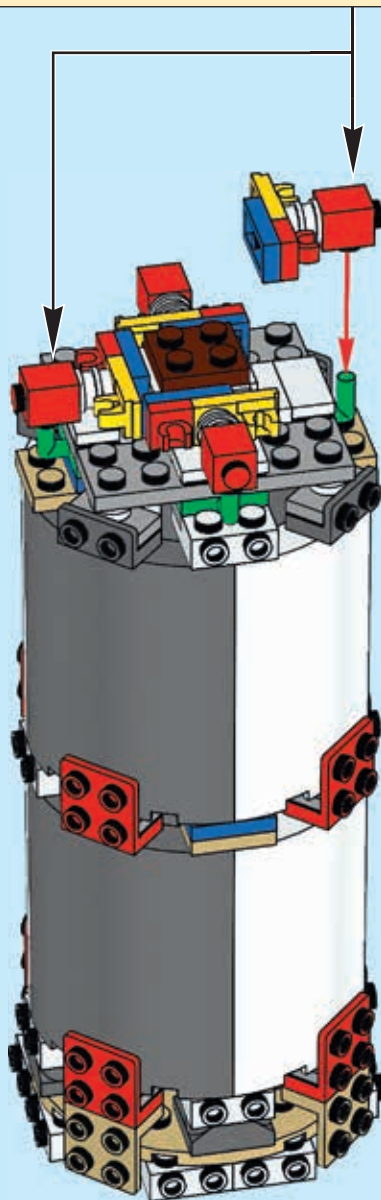
3



4



4x



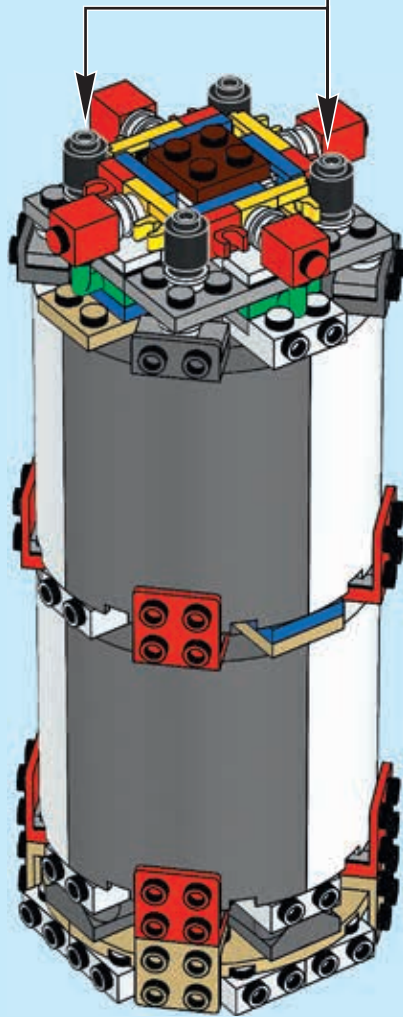


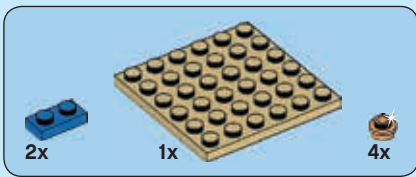
4x



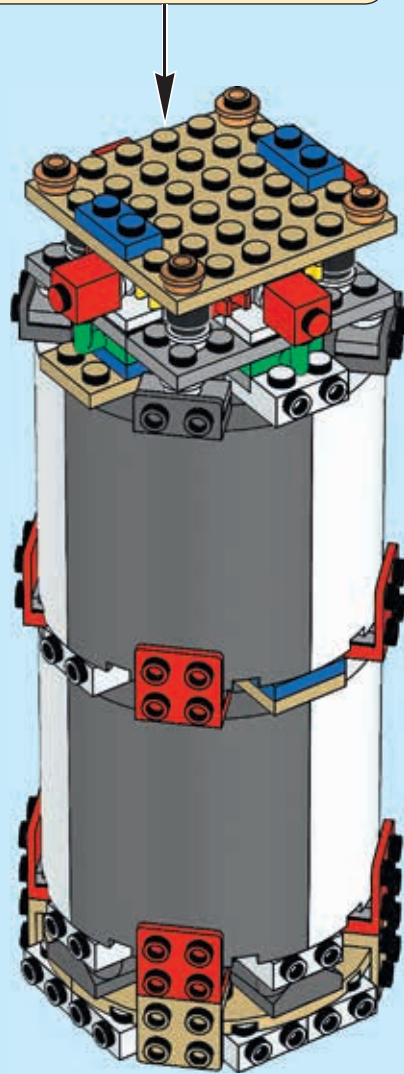
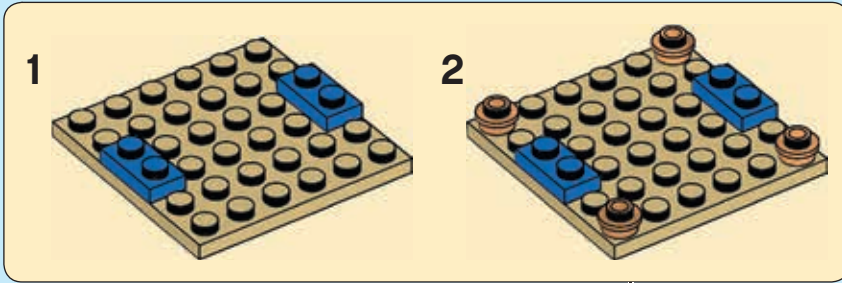
4x

# 156





# 157





2x



1x

158



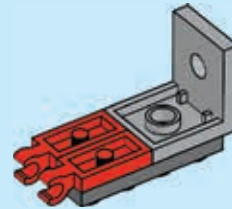
2x

159



1x

160

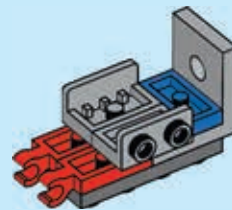


1x



2x

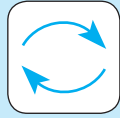
161



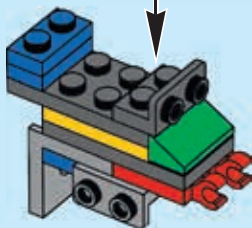
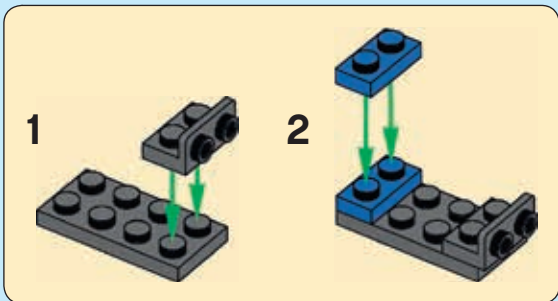




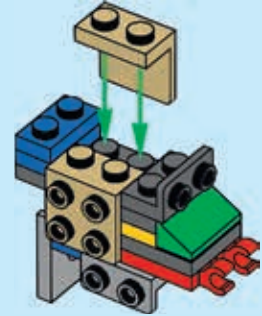
162



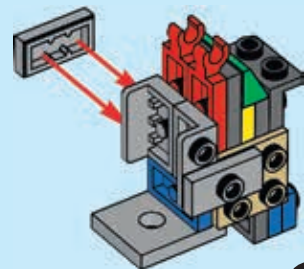
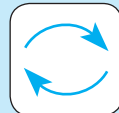
163



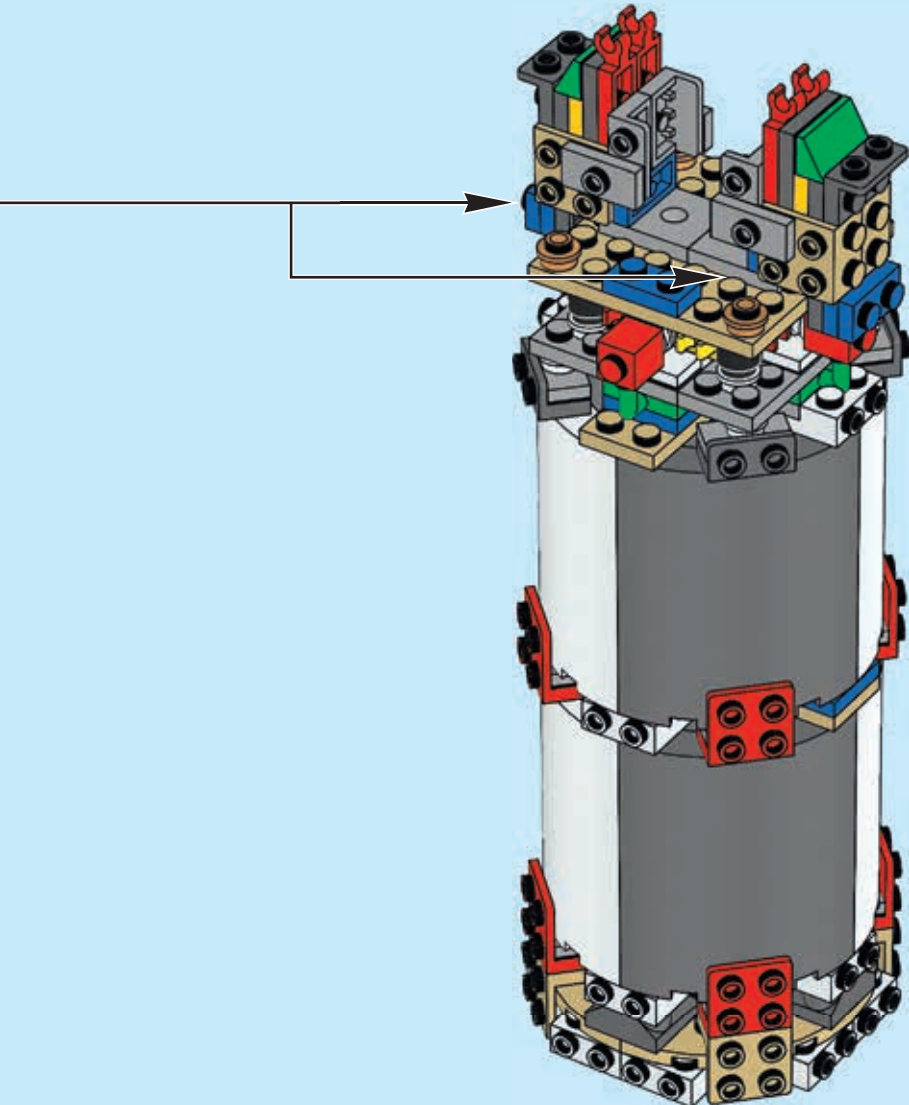
164

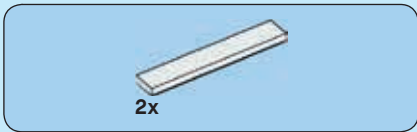


165

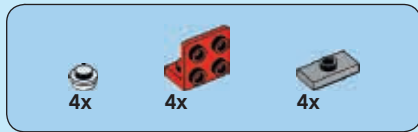
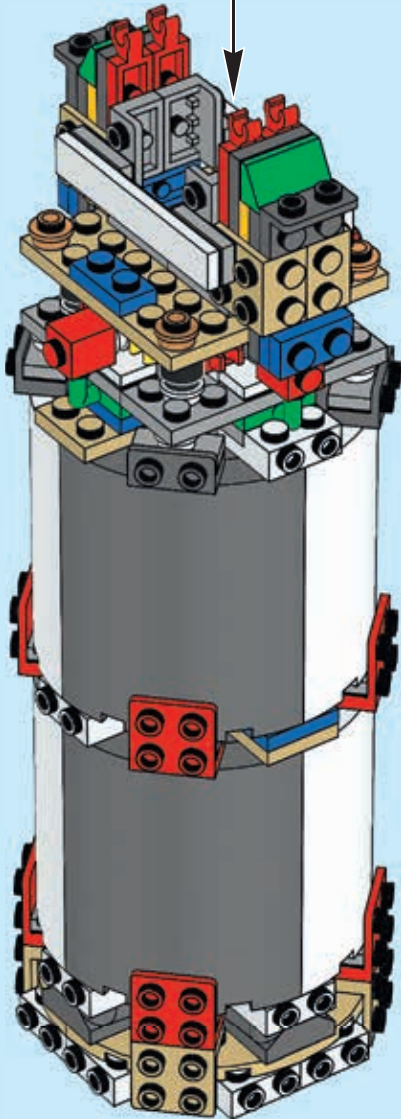
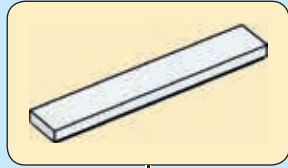


2x

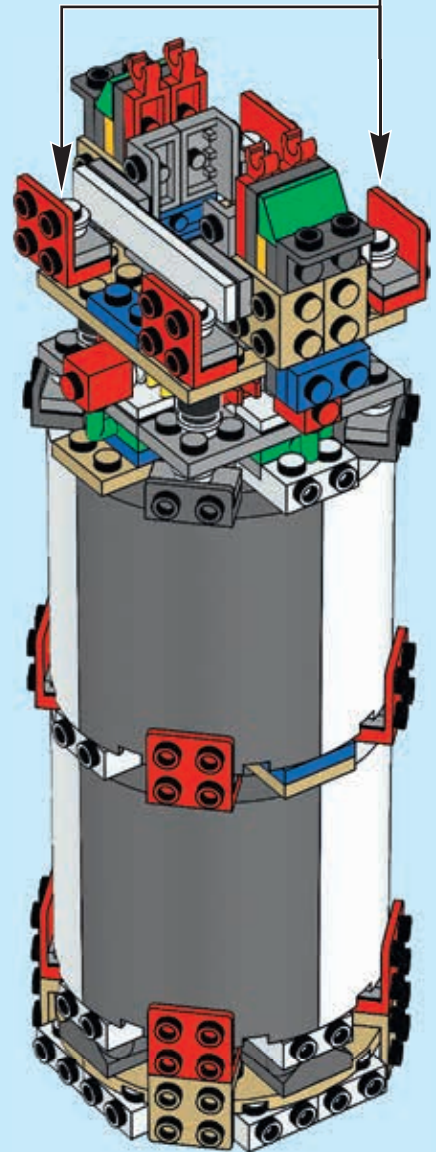
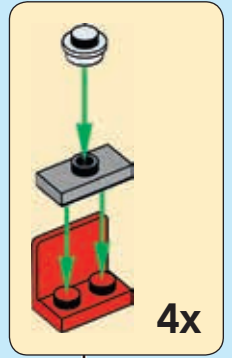




167



168





# 169

1



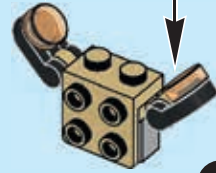
2



3

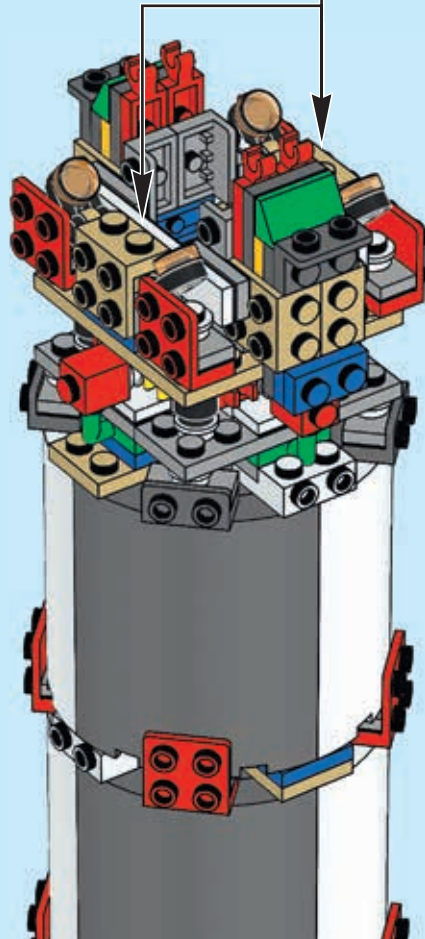


4



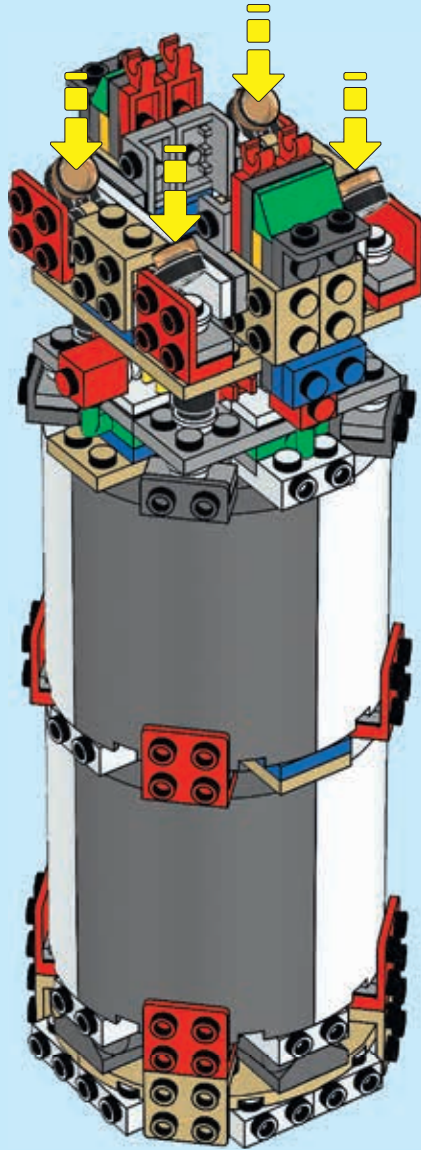
2x

# 170



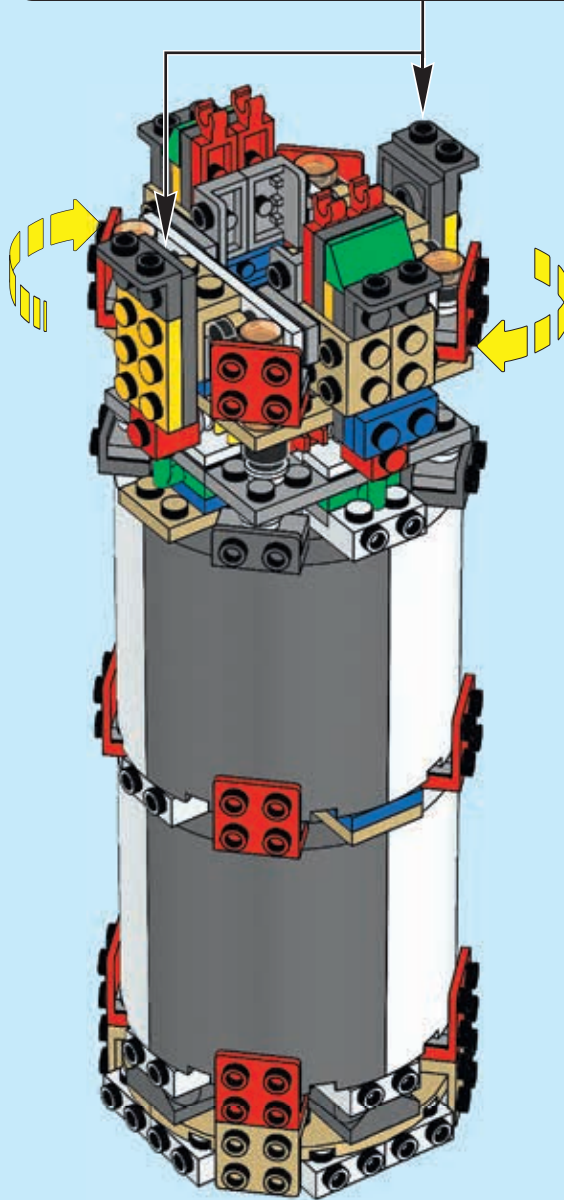


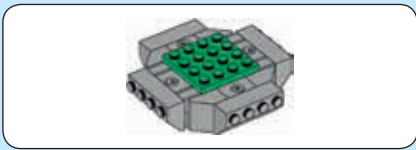
171



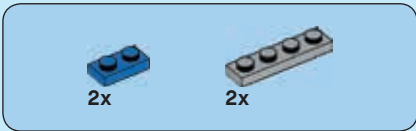


172





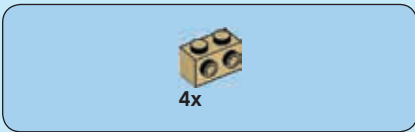
173



174



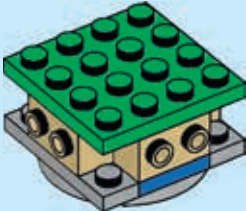
175

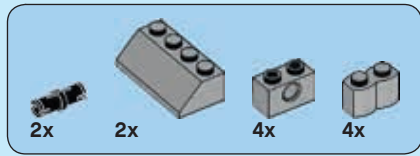


176

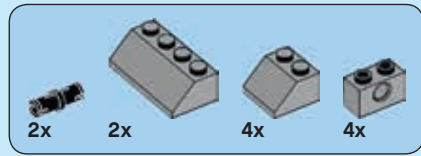
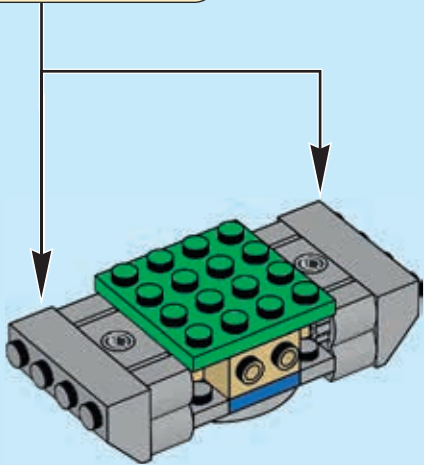
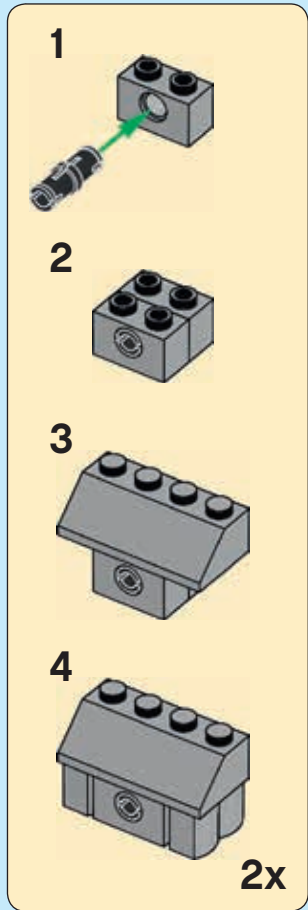


177

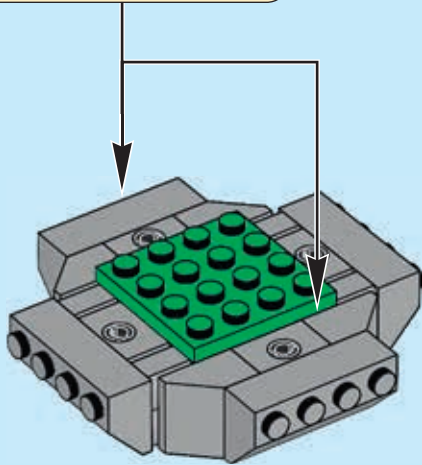
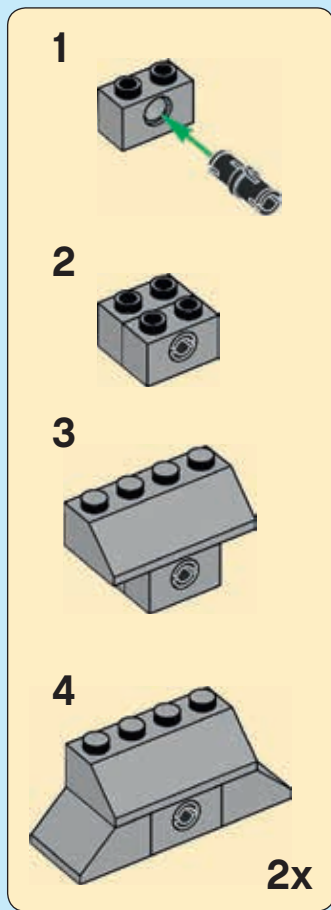




# 178

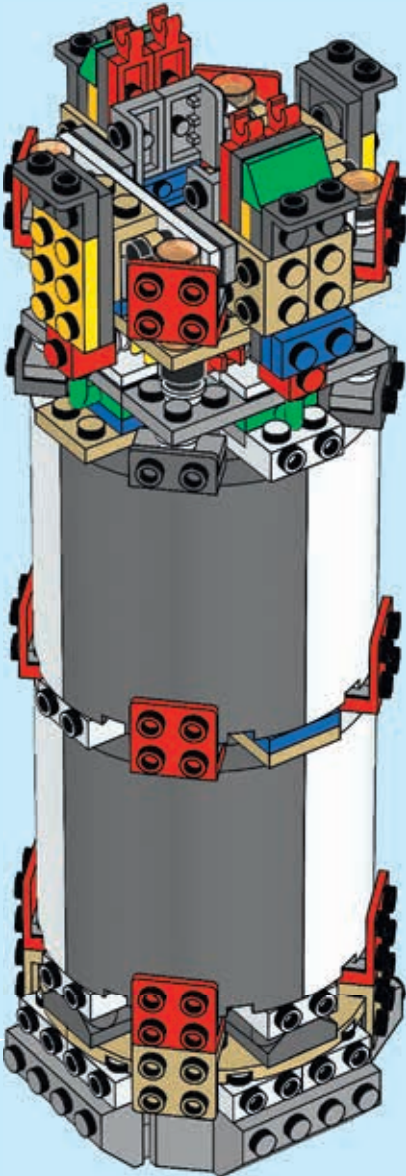


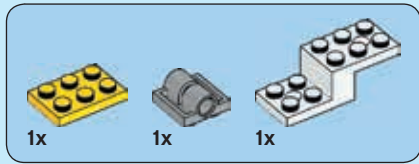
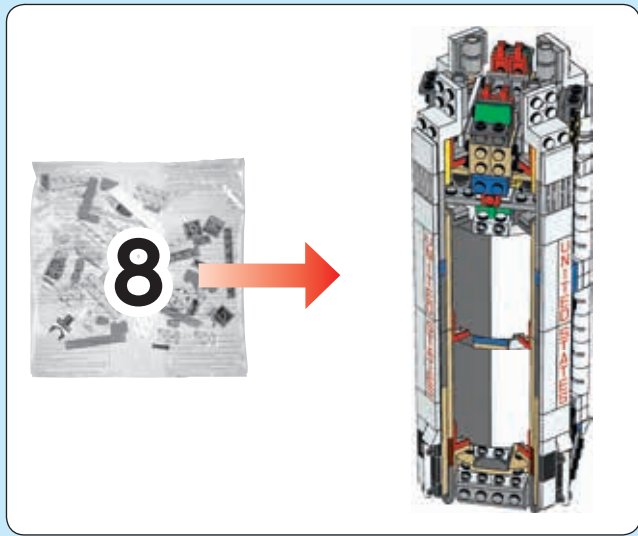
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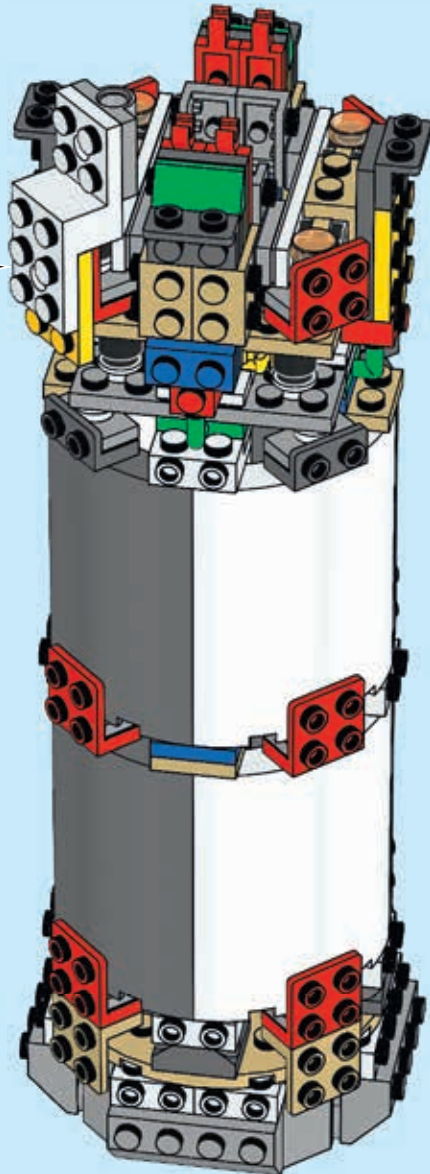
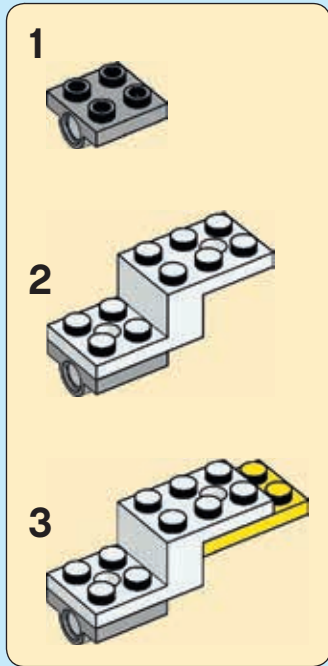


180





# 181

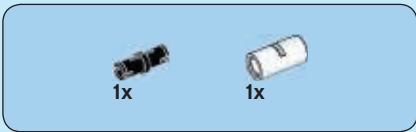




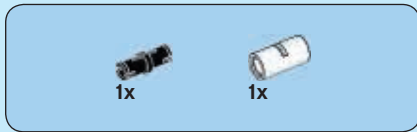
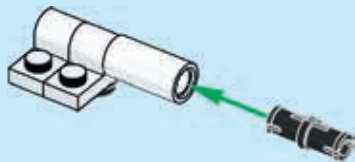
182



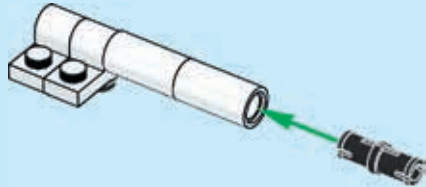
183



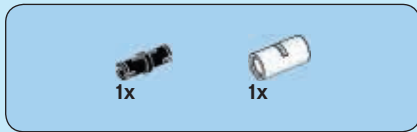
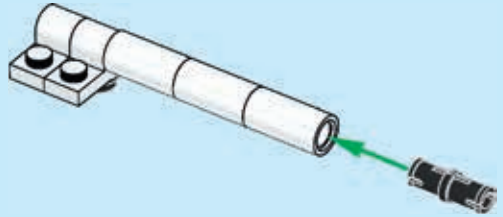
184



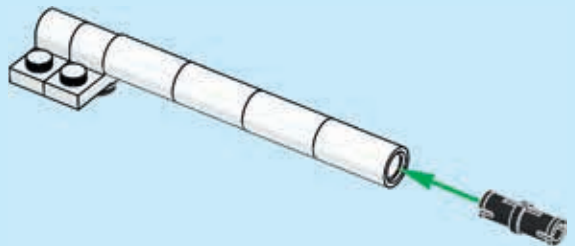
185



186

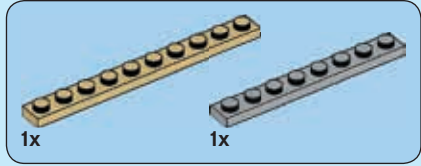
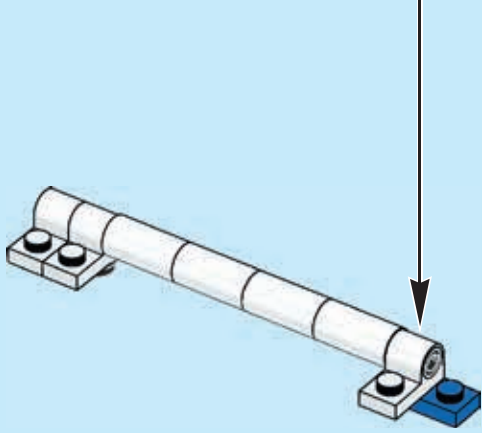
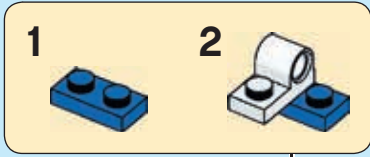


187

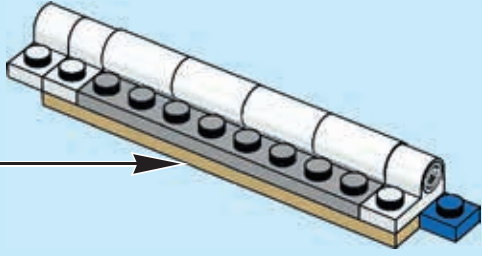
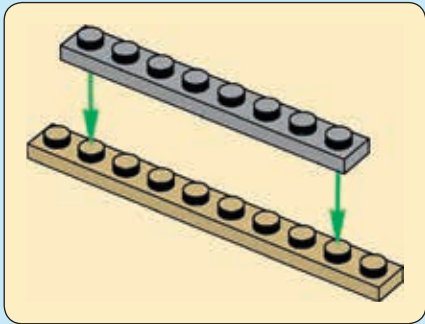




# 188



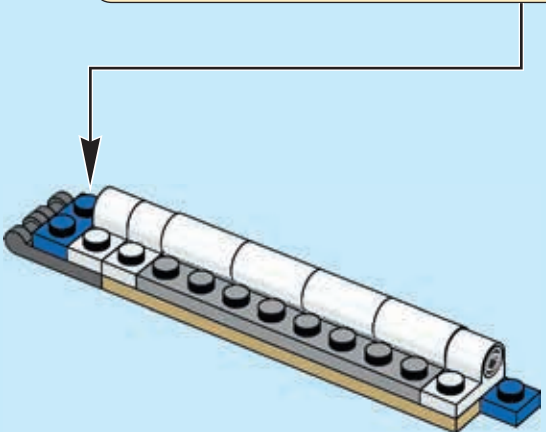
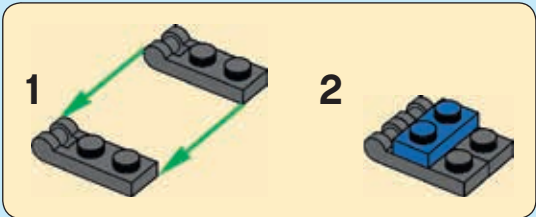
# 189



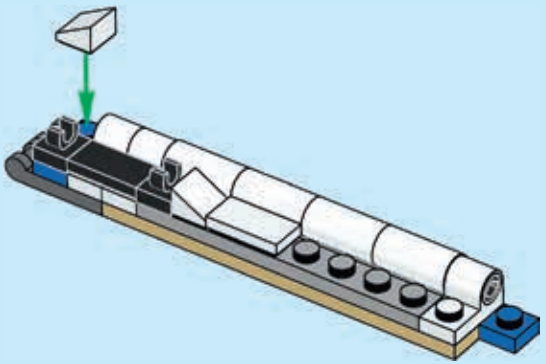




# 190



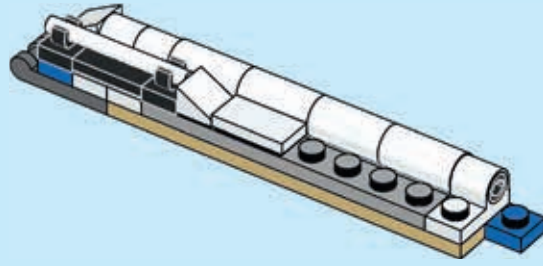
# 191



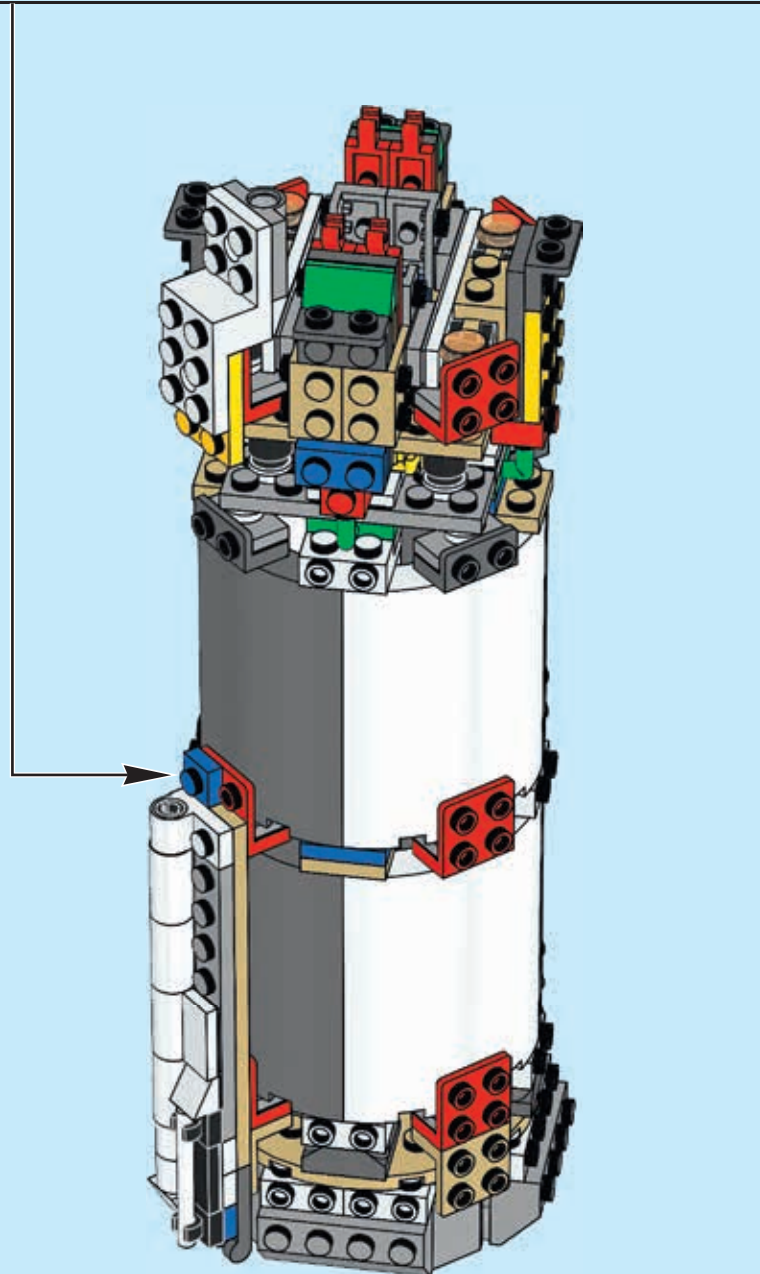


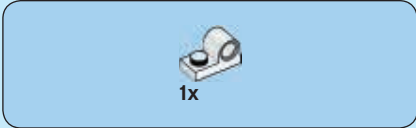
1x

192

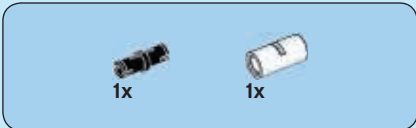


193

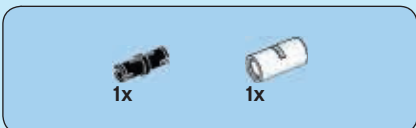
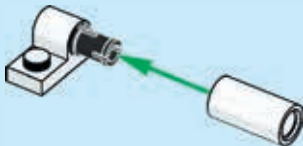




194



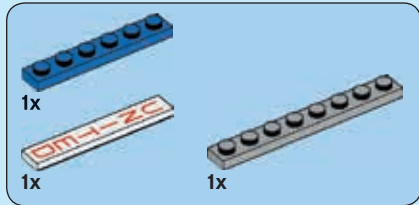
195



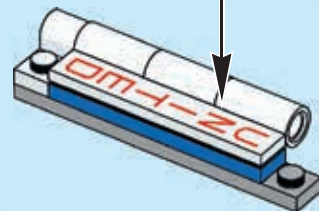
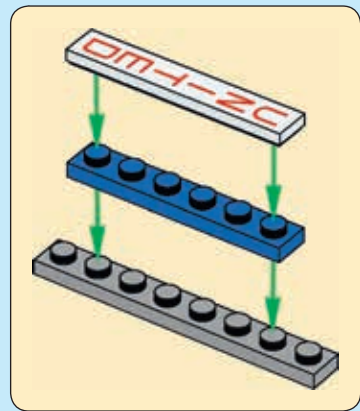
196

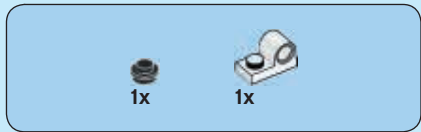


197

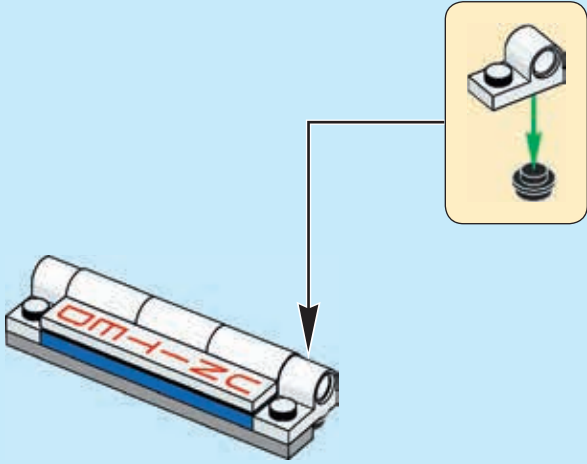


198

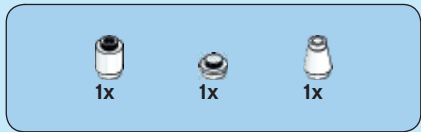
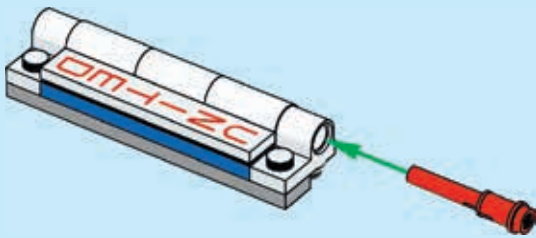




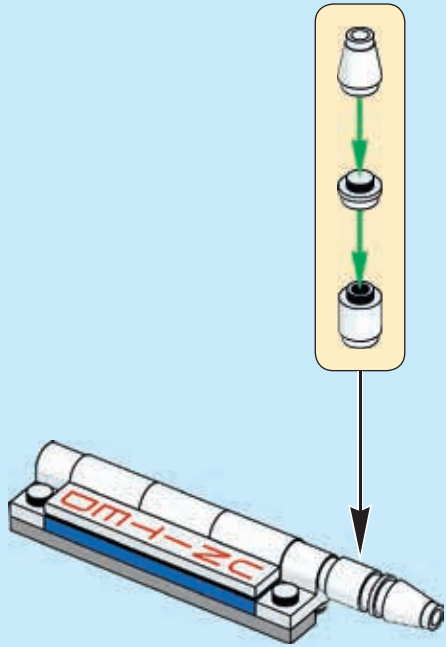
199



200

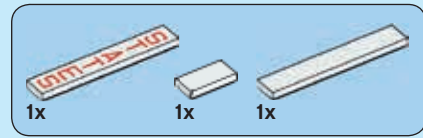
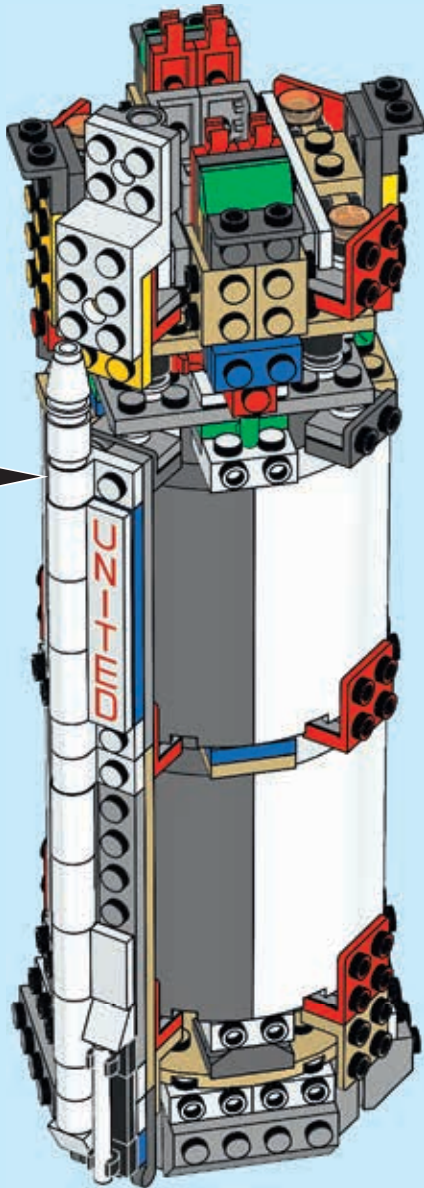


201

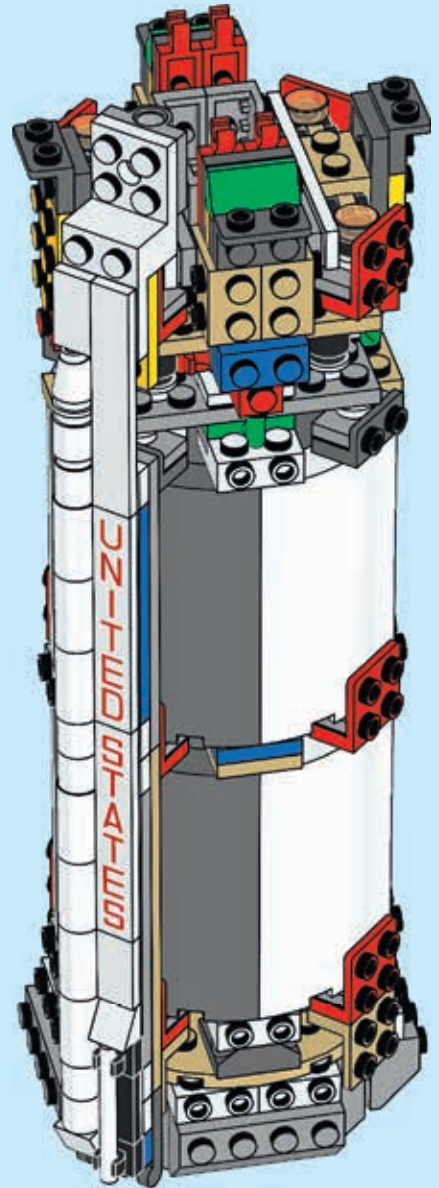


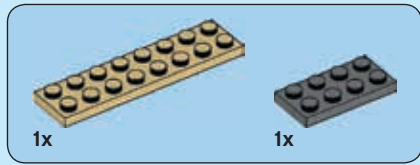


202

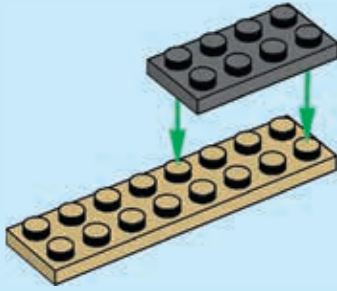


203

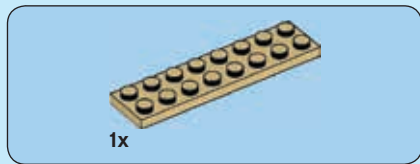
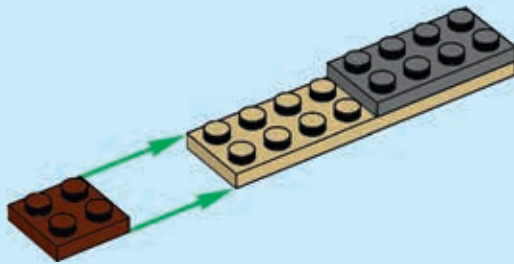




204



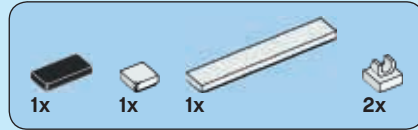
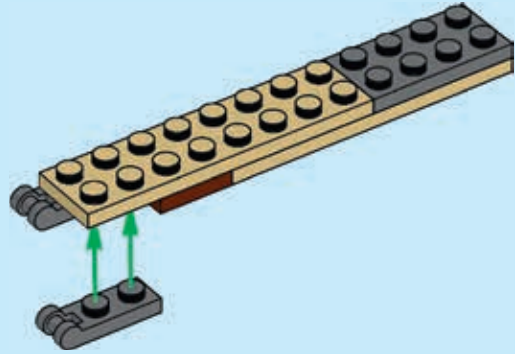
205



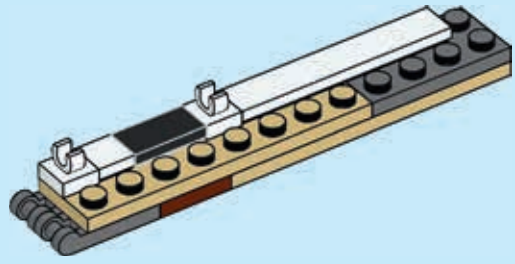
206



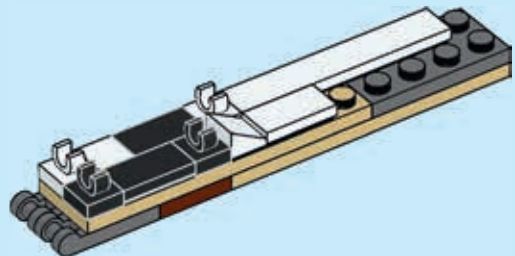
207

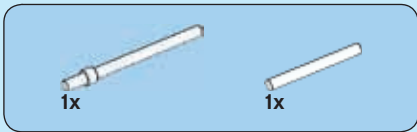


208

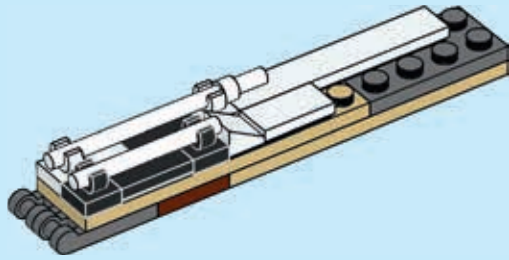


209

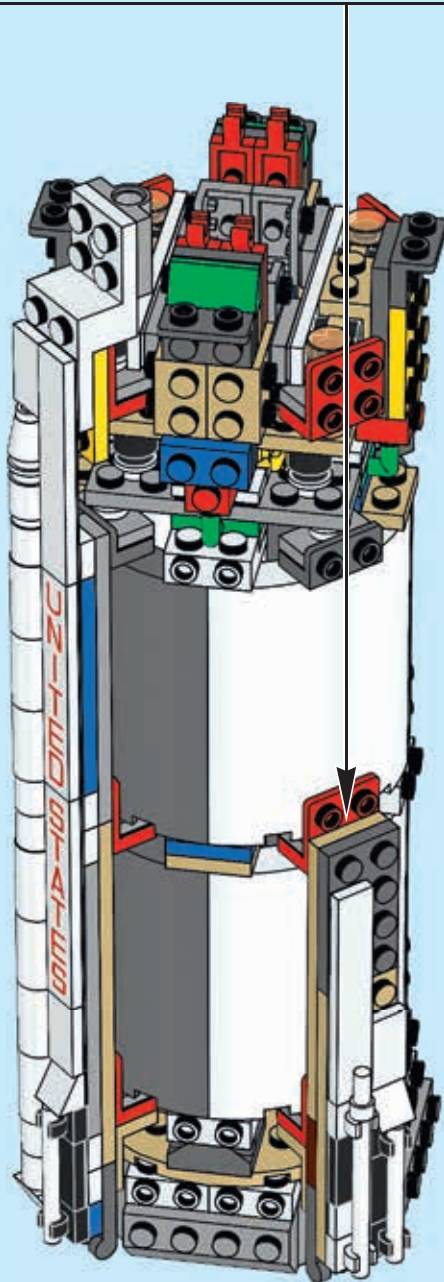


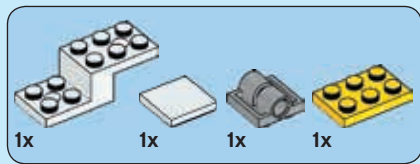


210

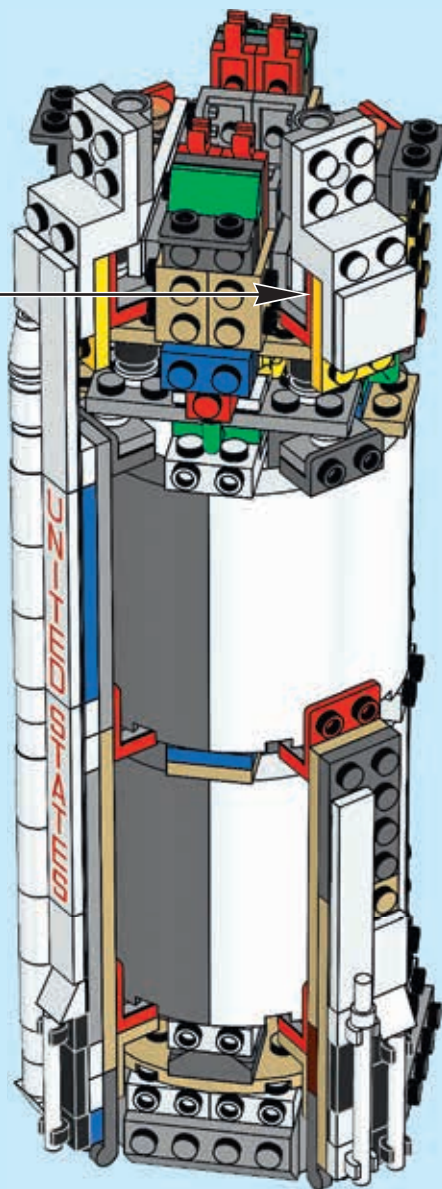
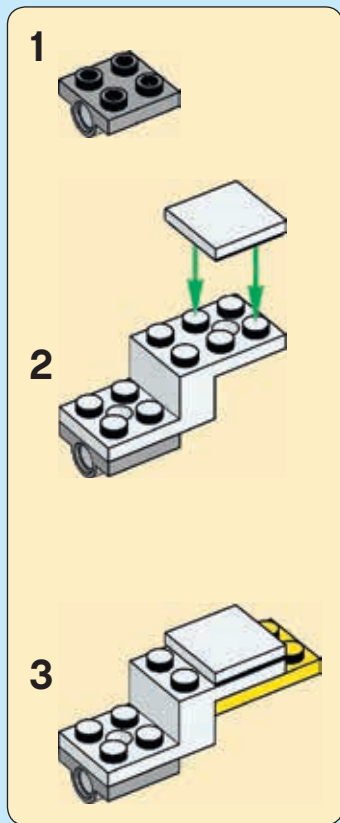


211

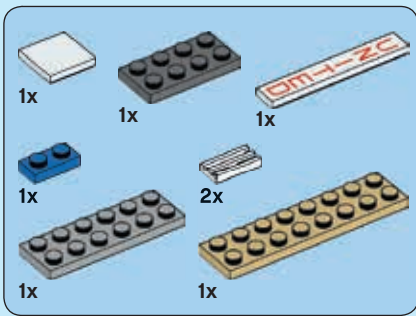




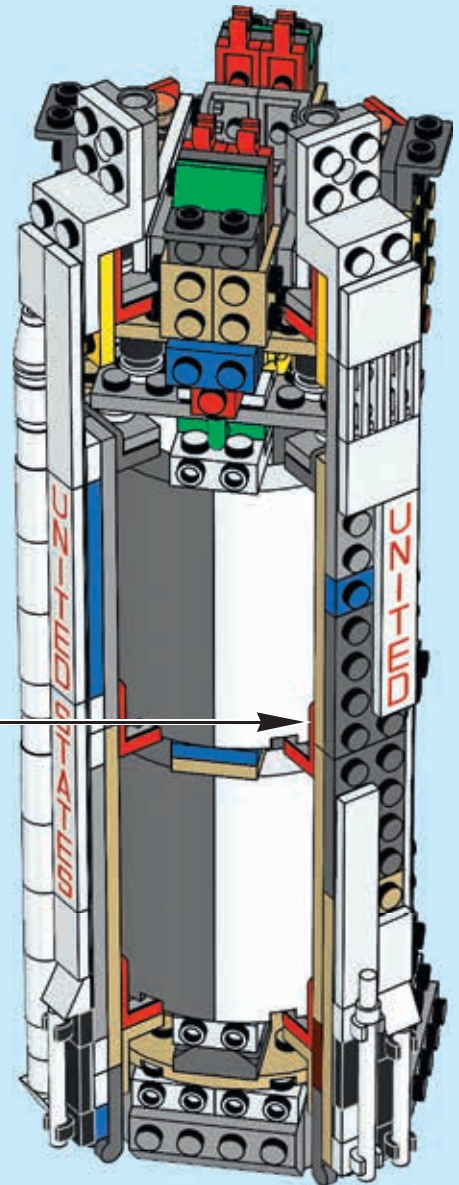
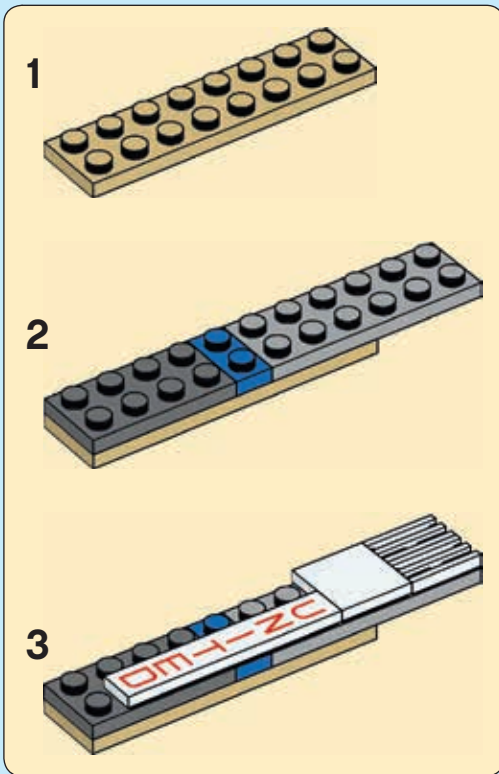
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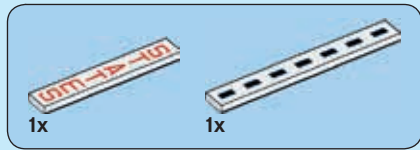




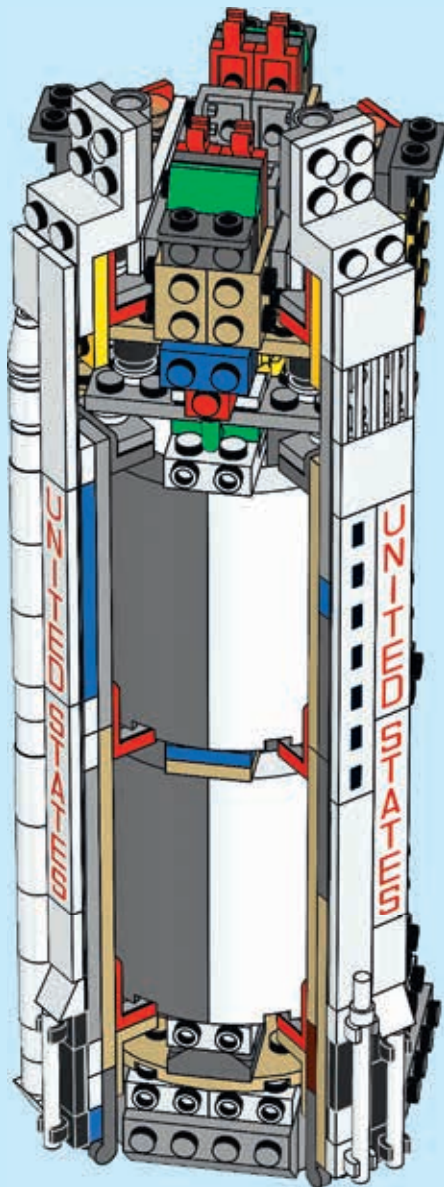


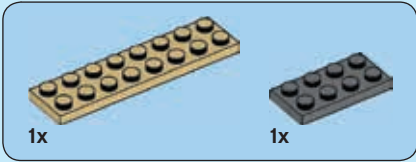
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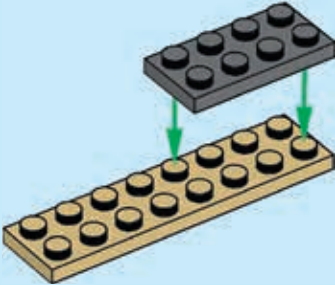


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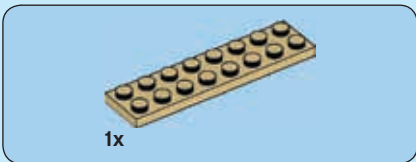
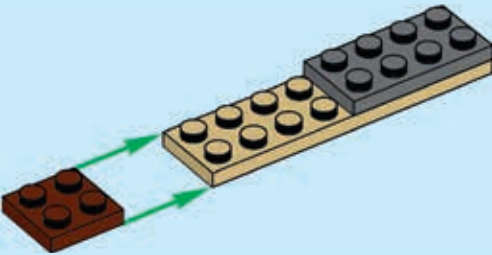




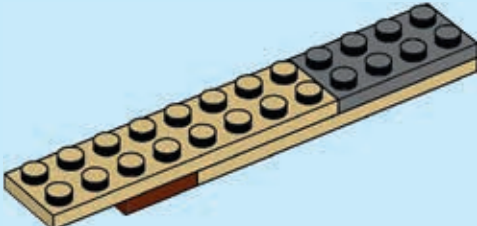
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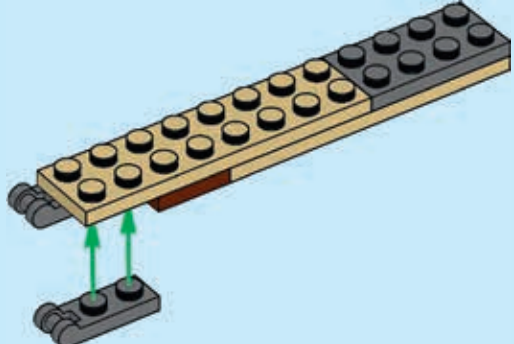
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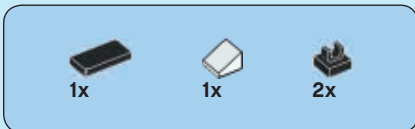
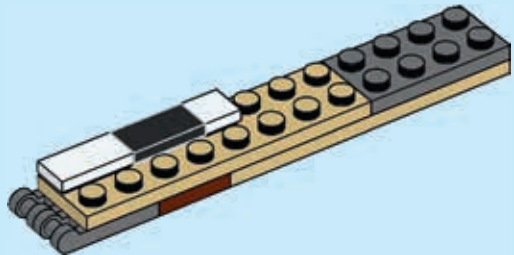
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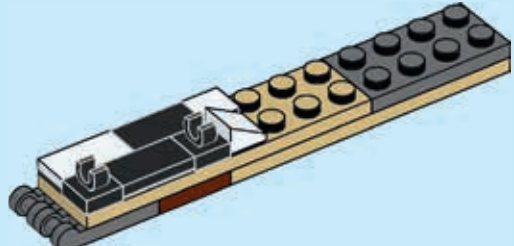
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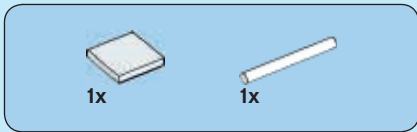


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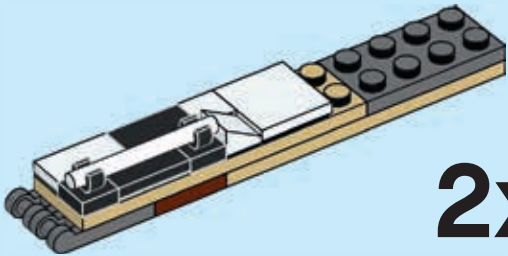


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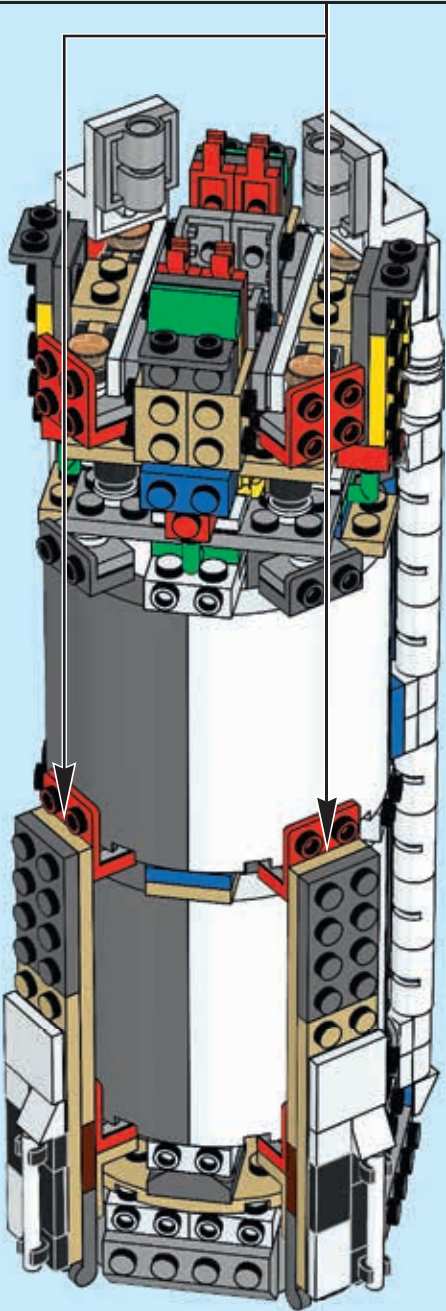
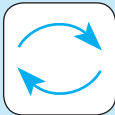




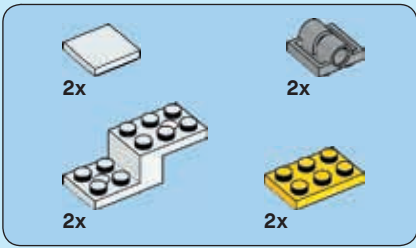
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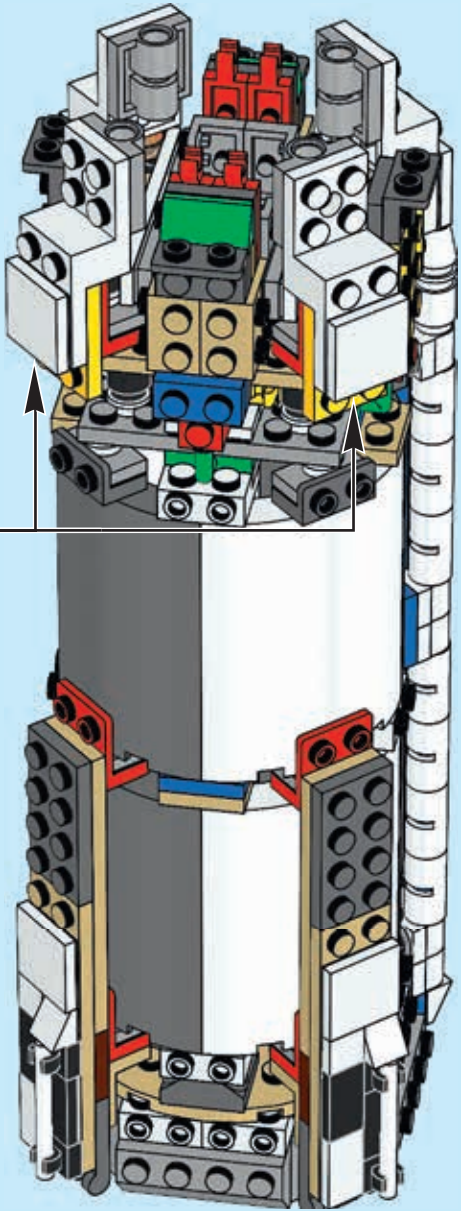
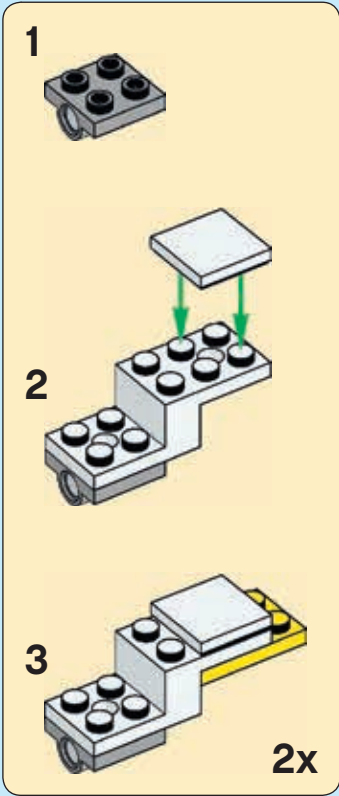
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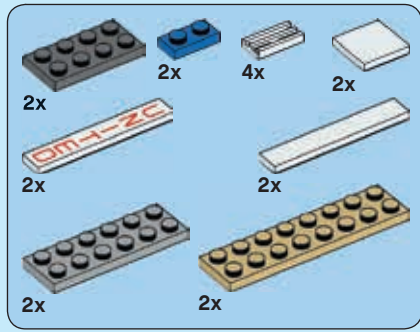




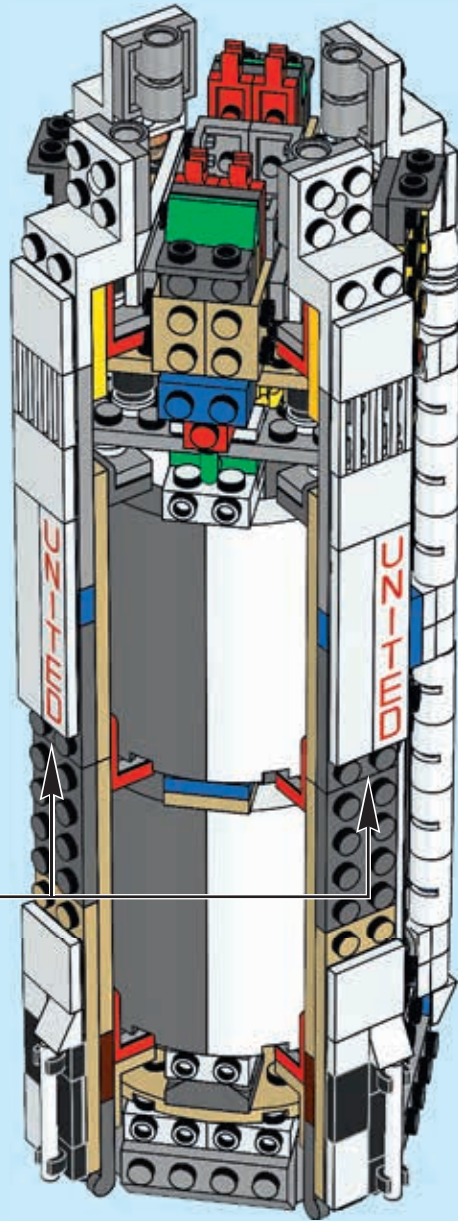
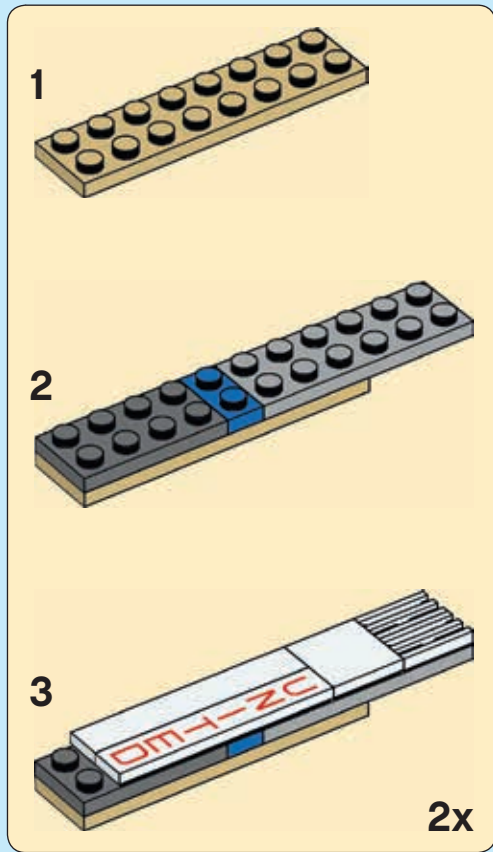


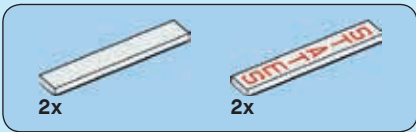
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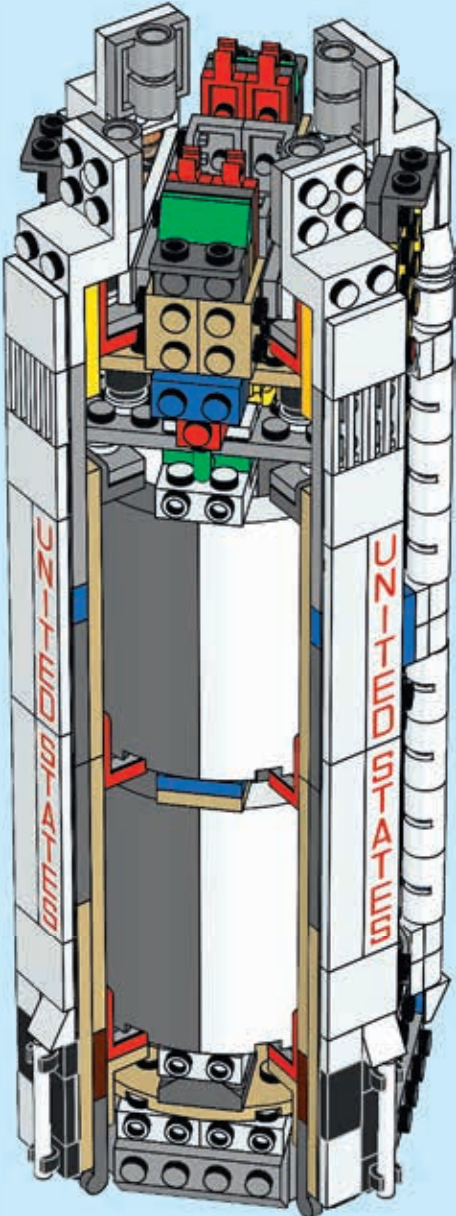


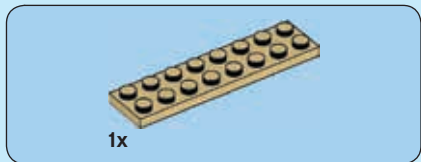
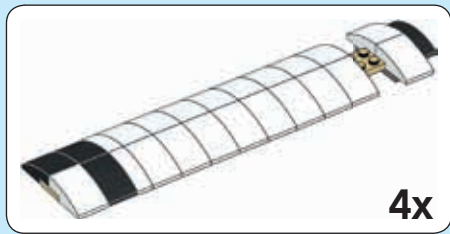
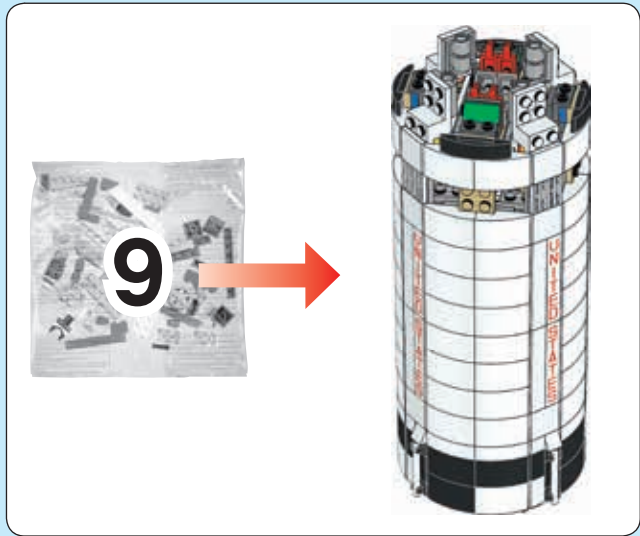
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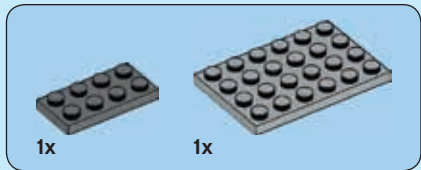
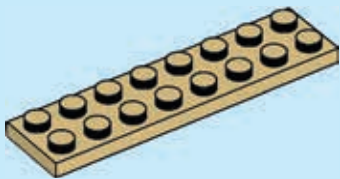


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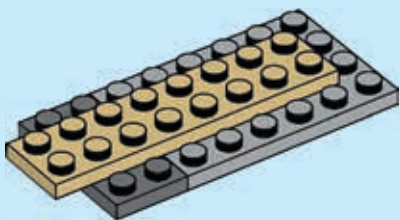




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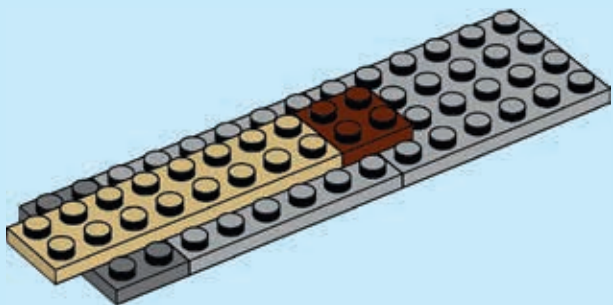
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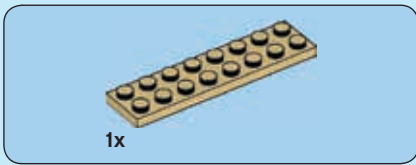
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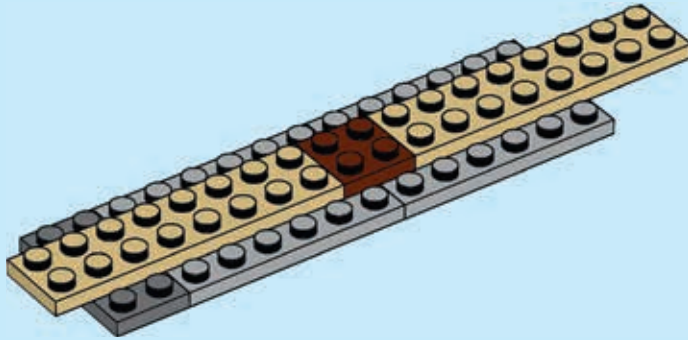
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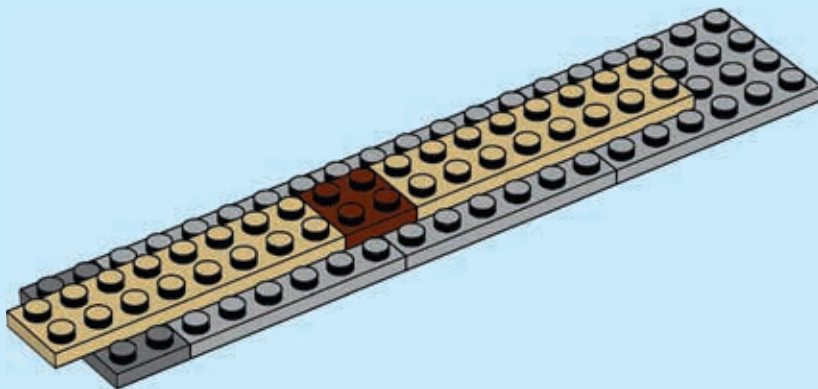


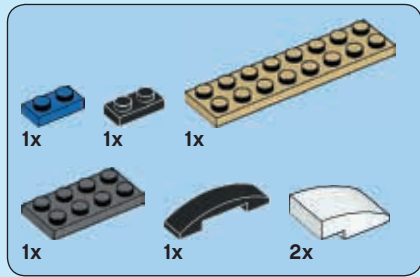


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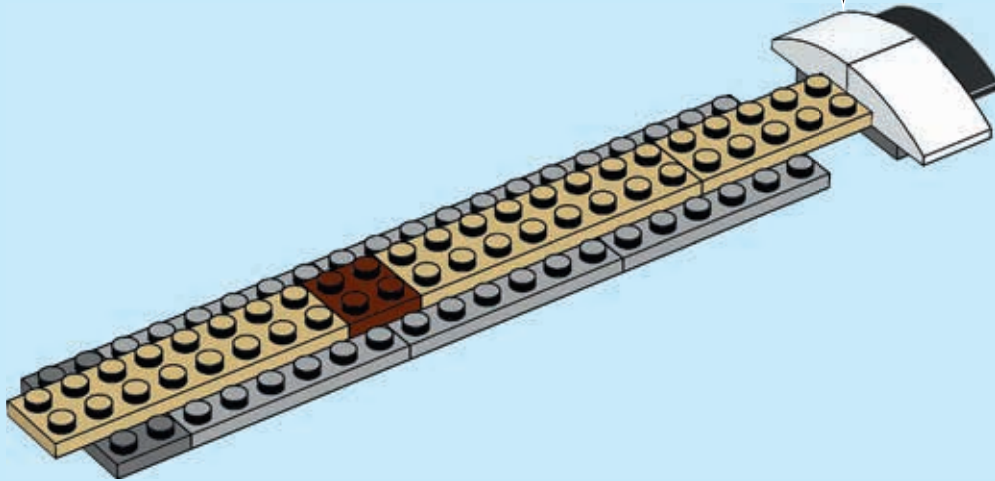
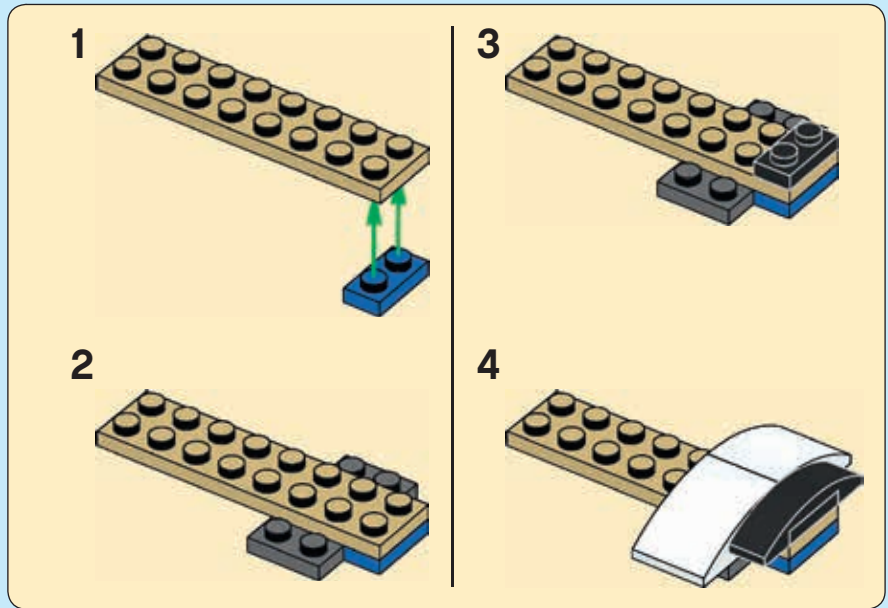


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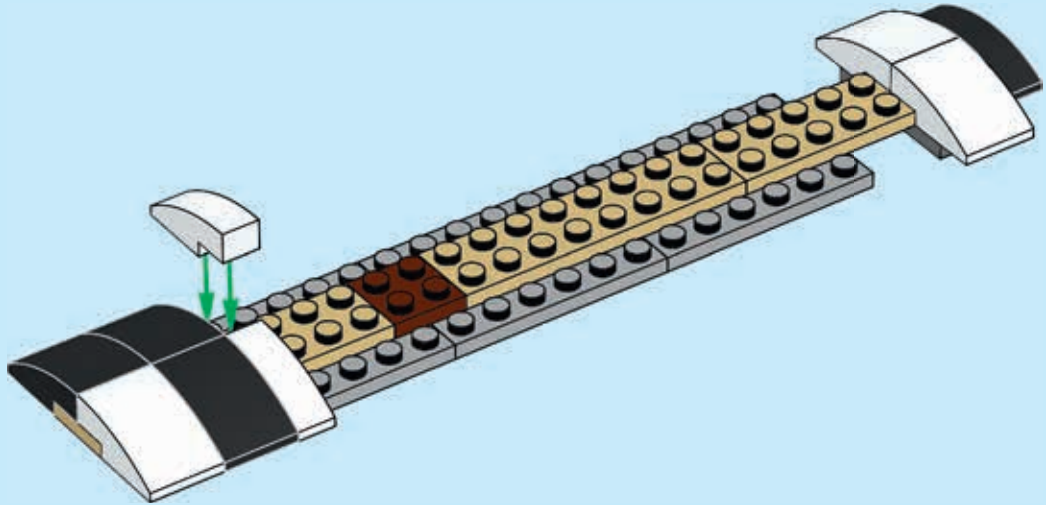


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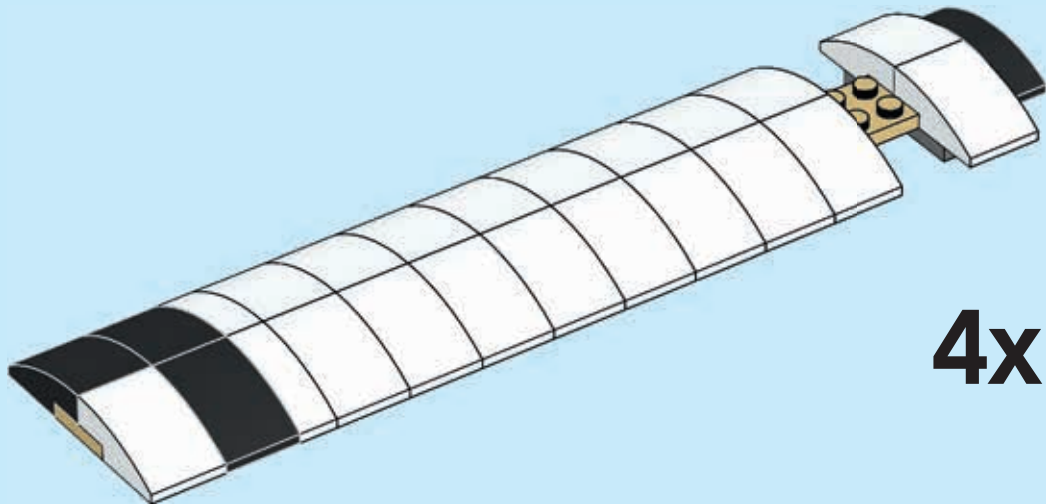


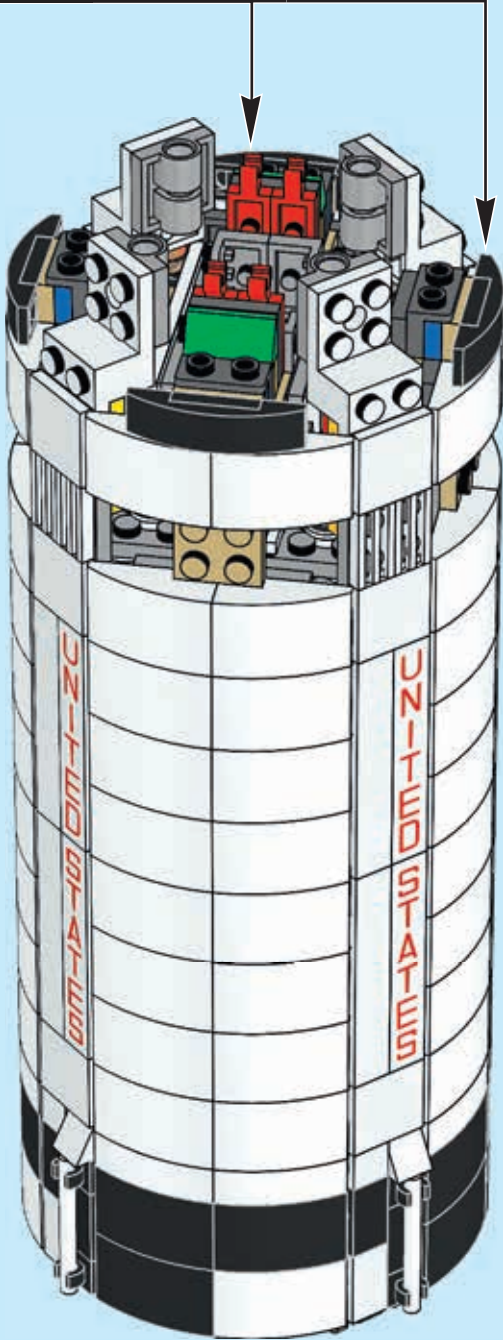


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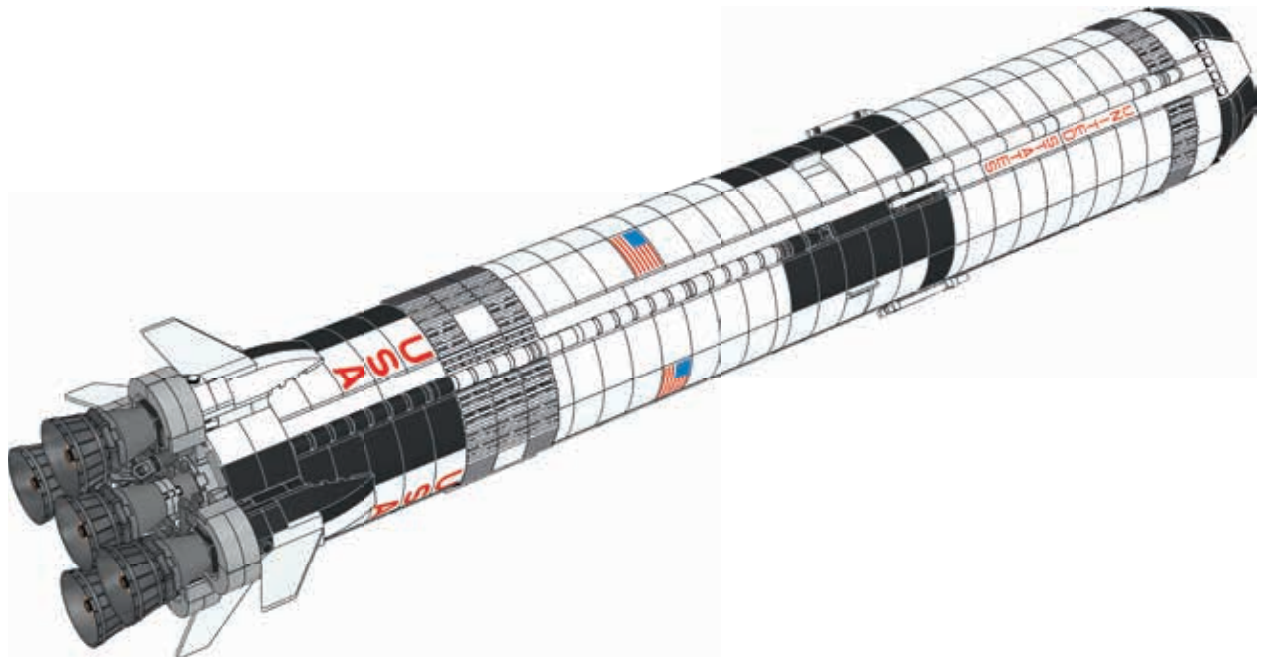


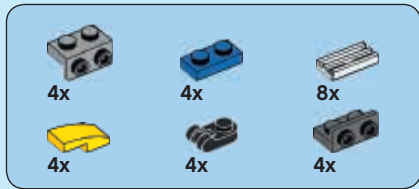
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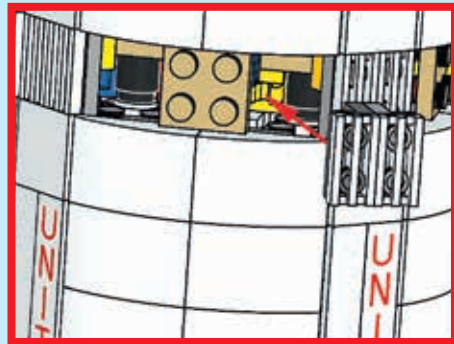
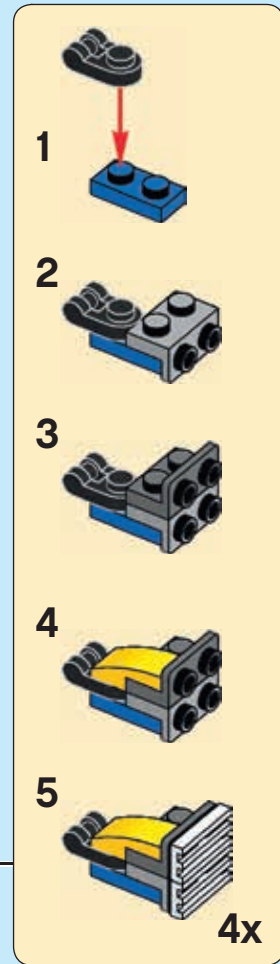
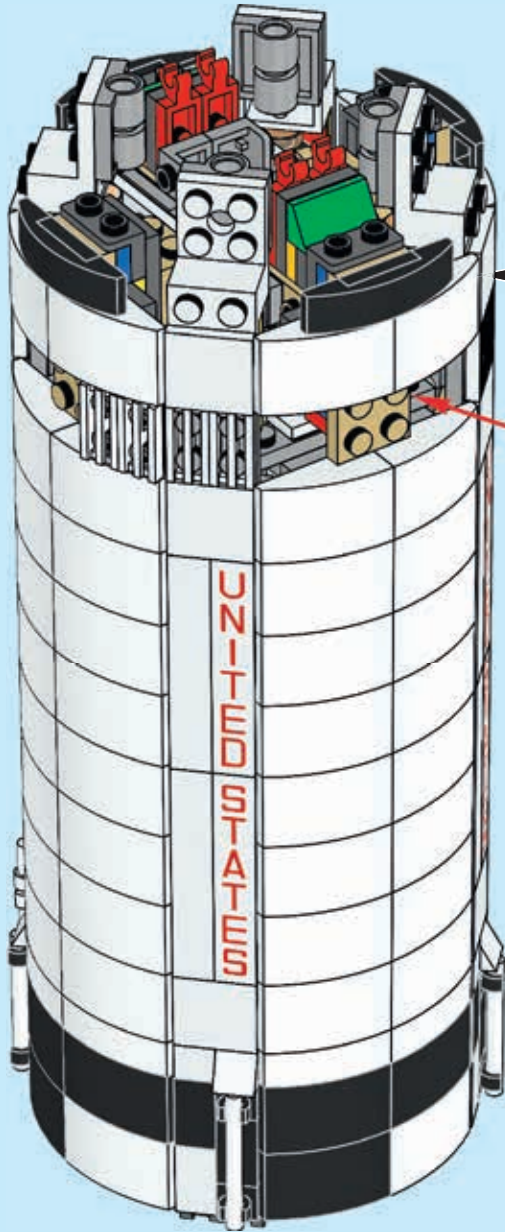


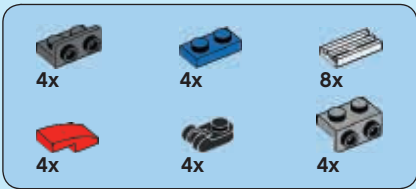




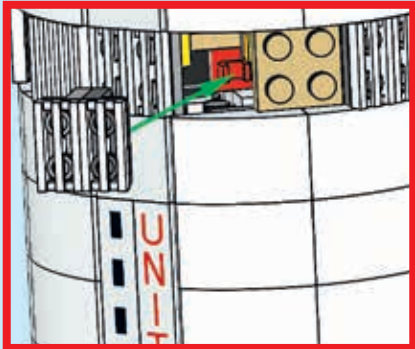
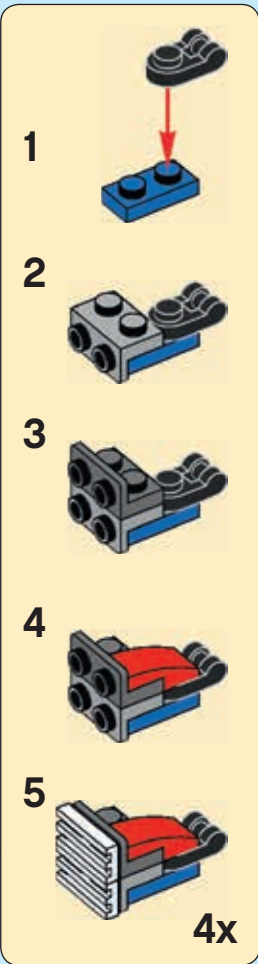
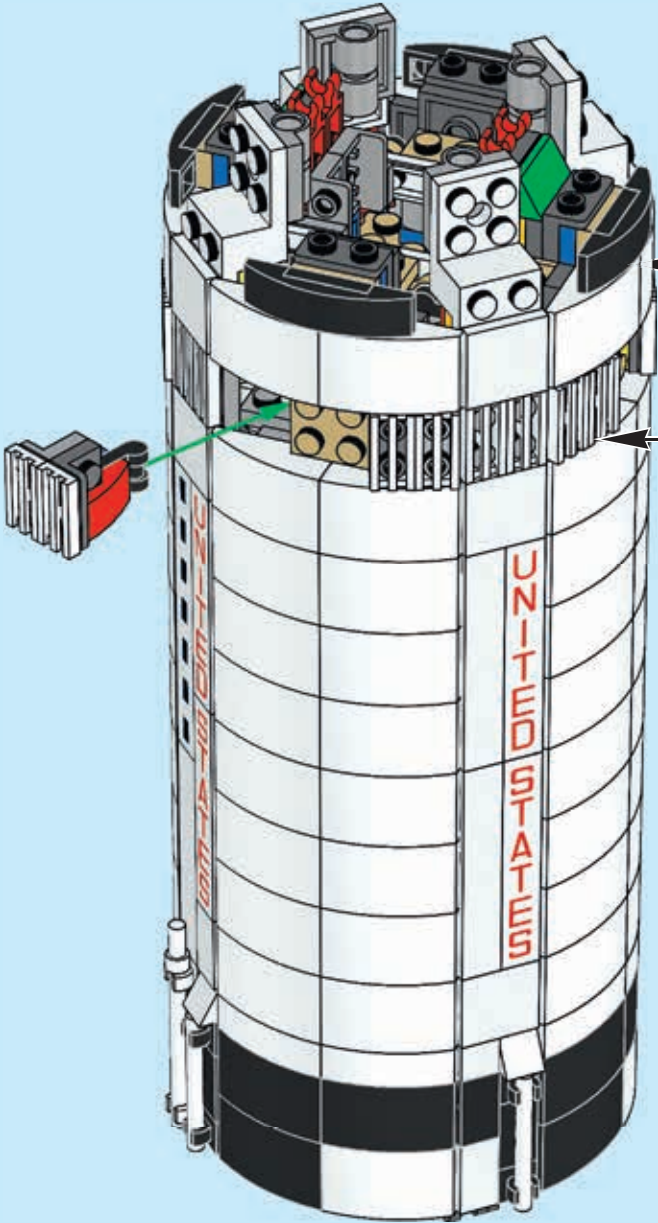


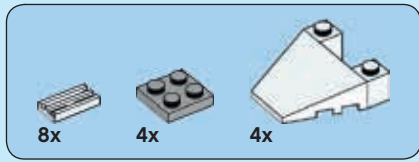
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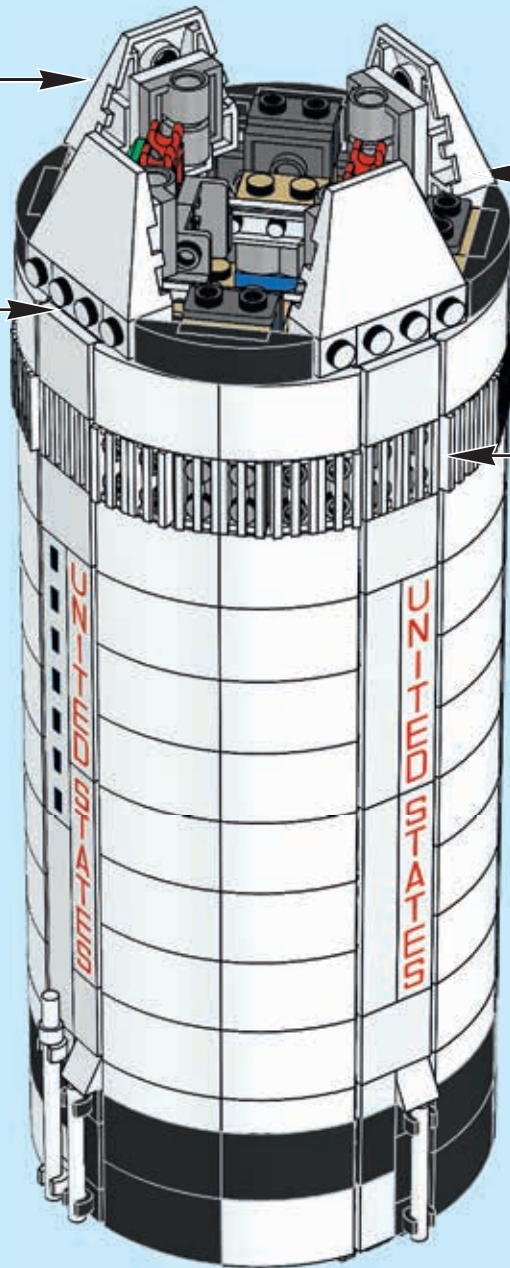
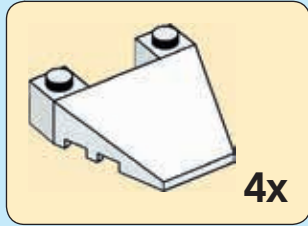
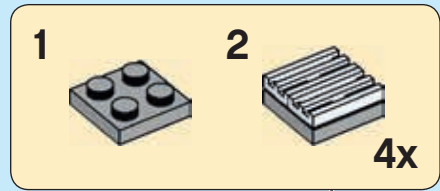


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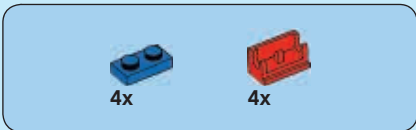




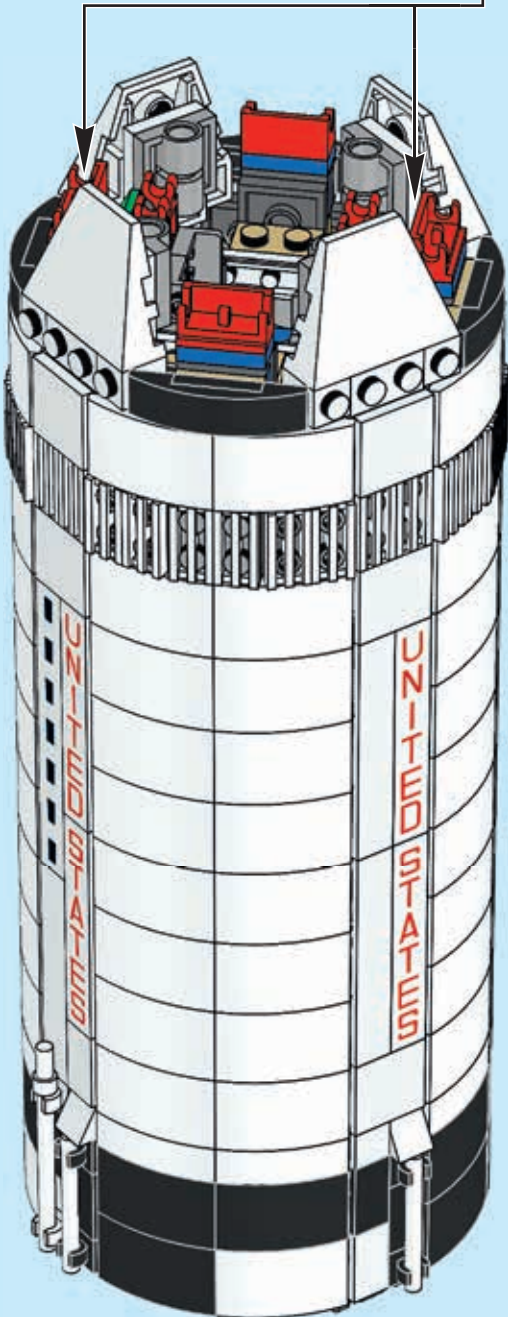
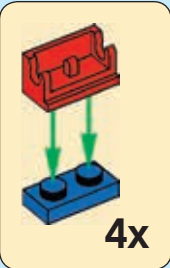
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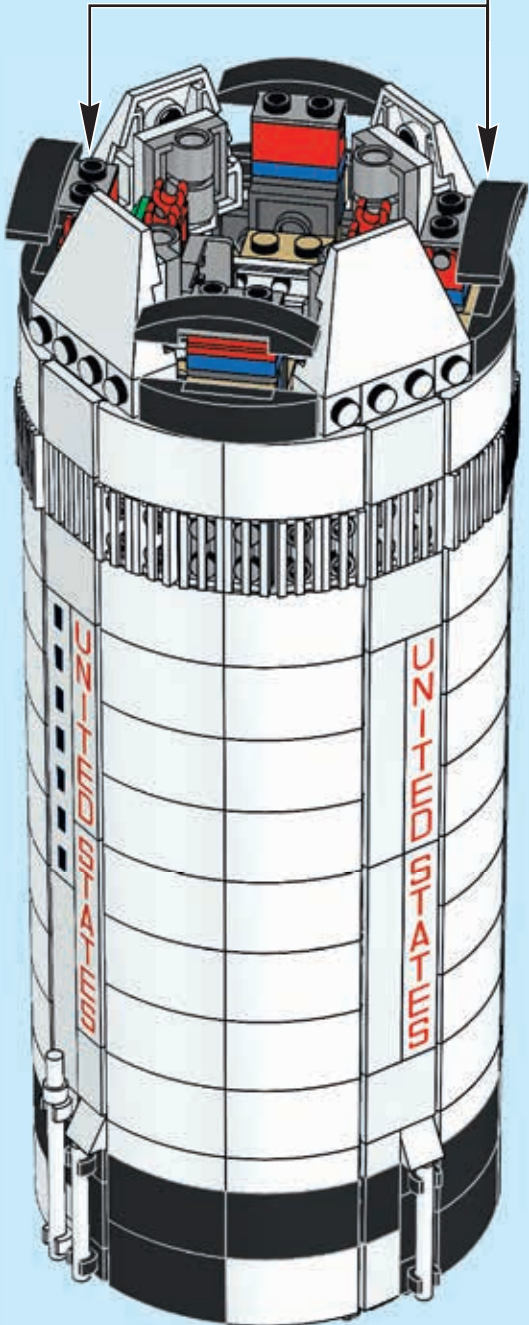
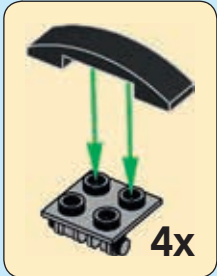




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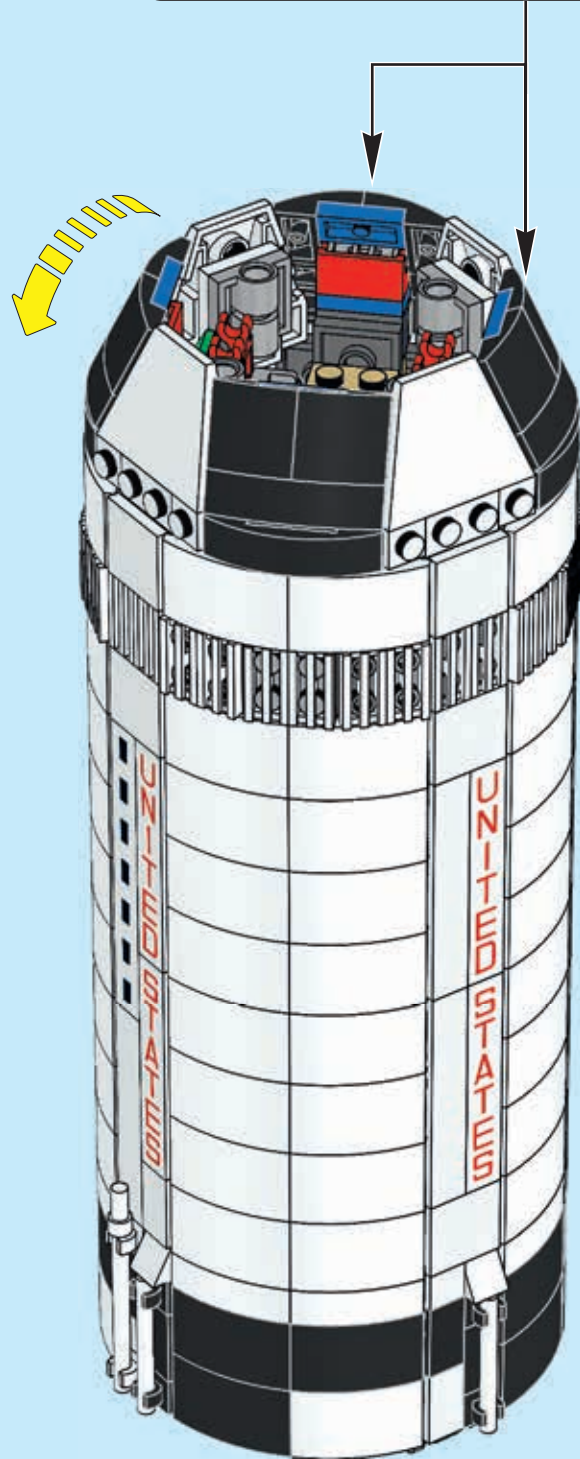
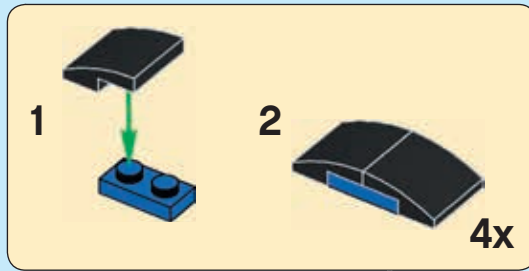


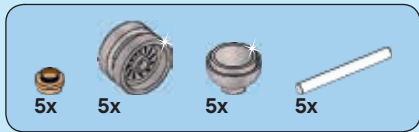
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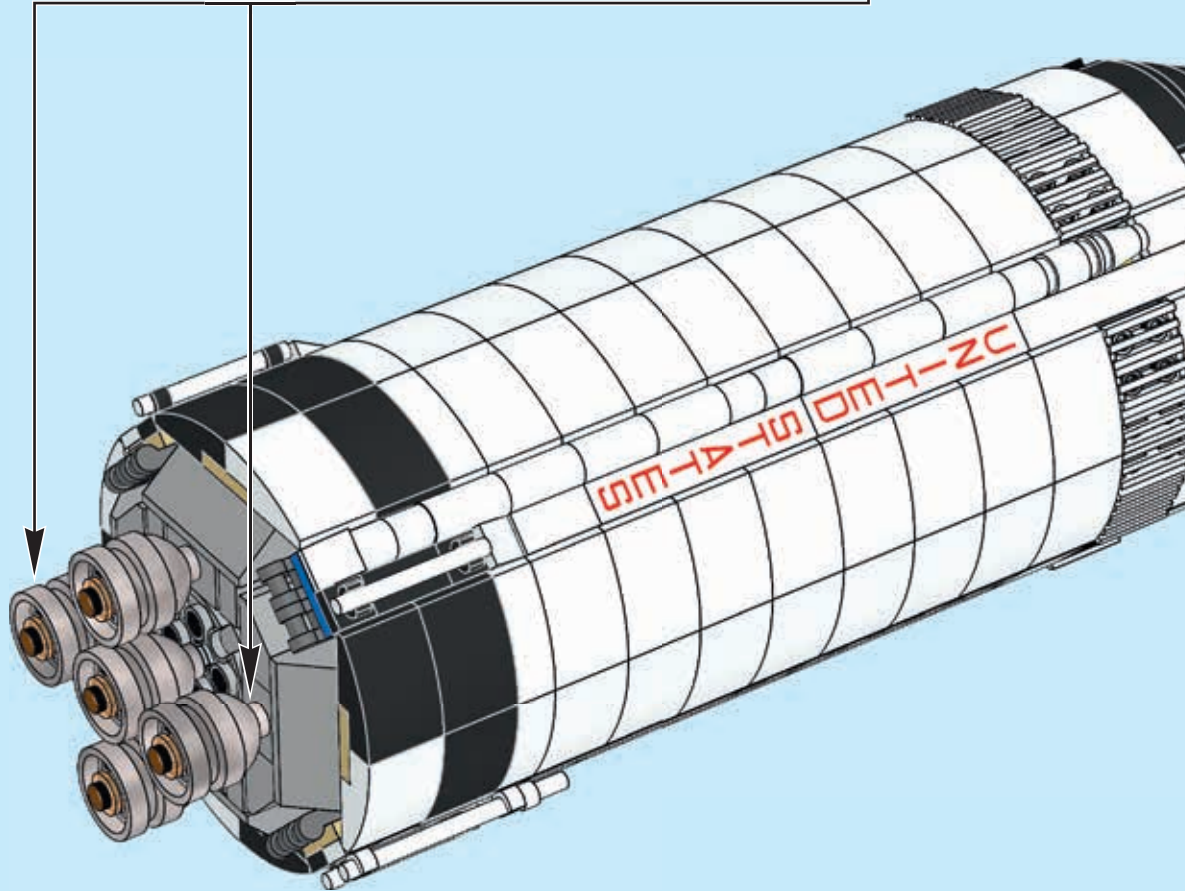
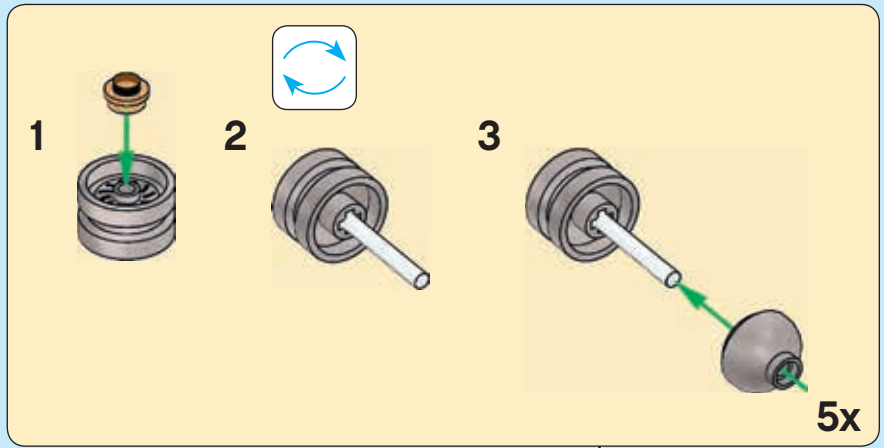


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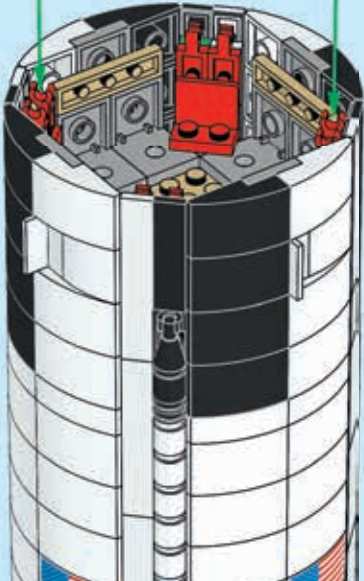
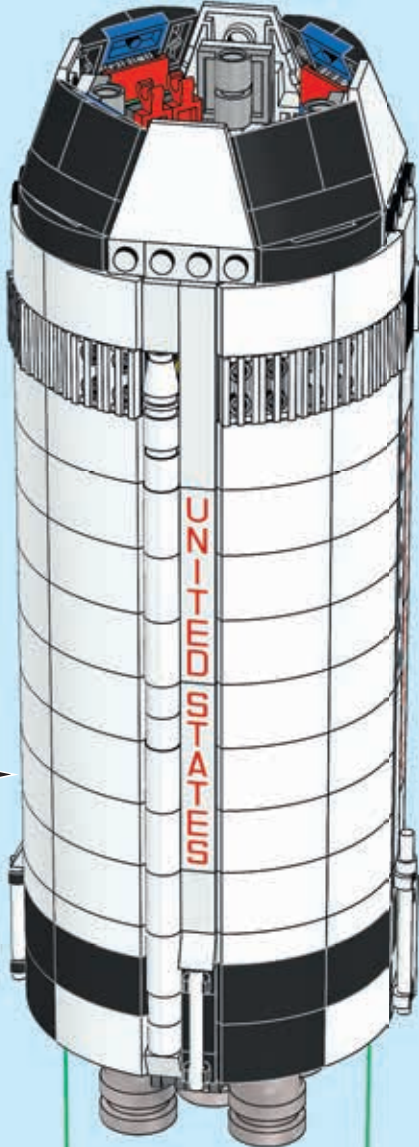




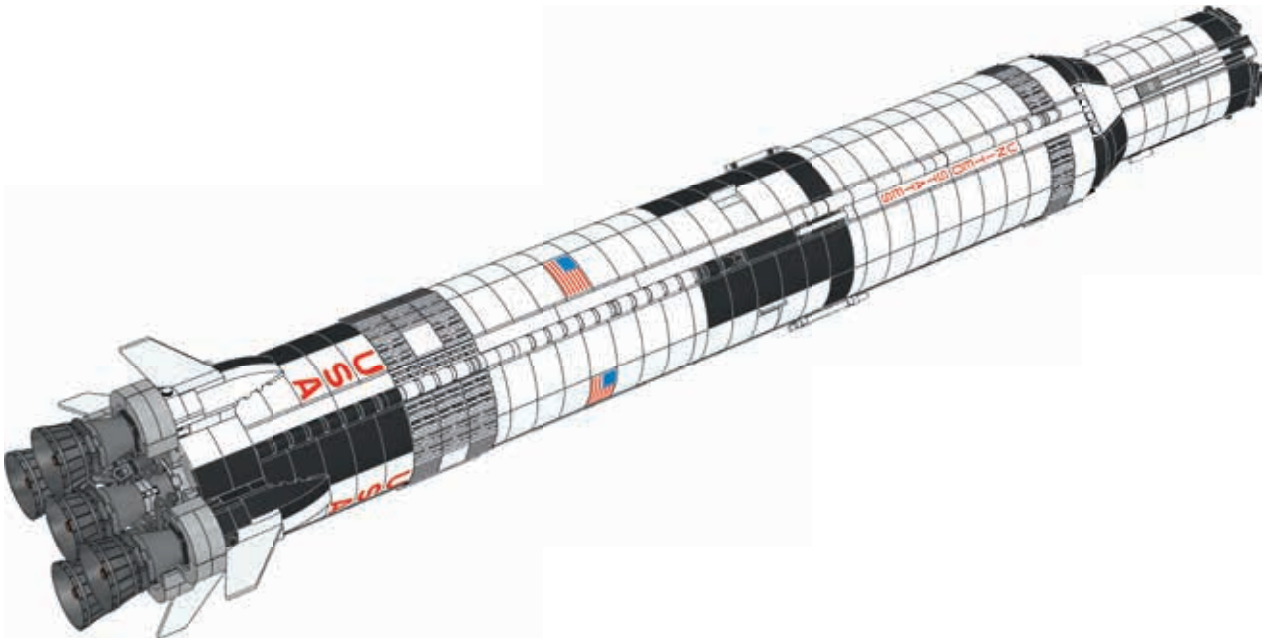
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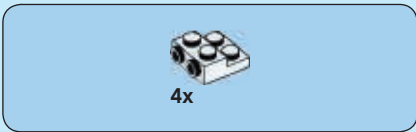




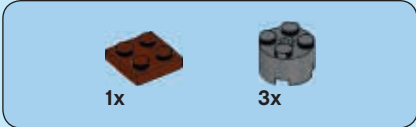
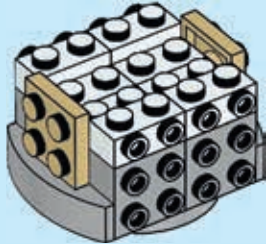




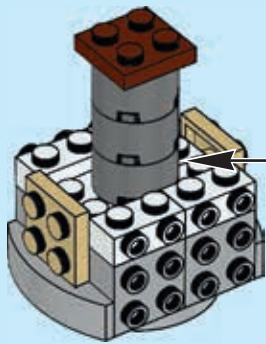




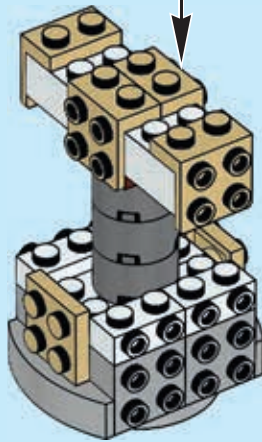
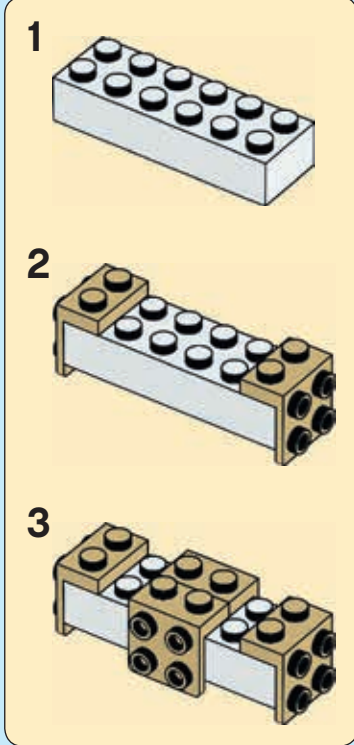
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# 249

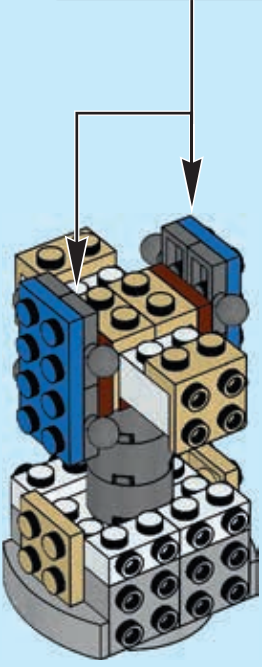
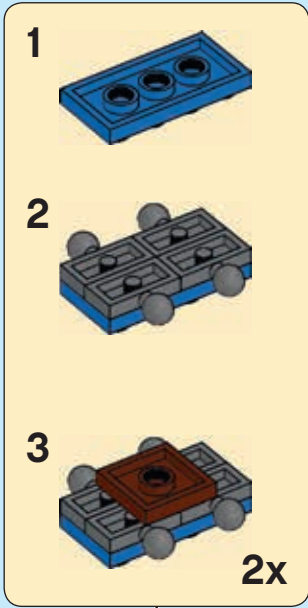


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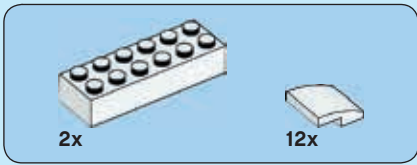




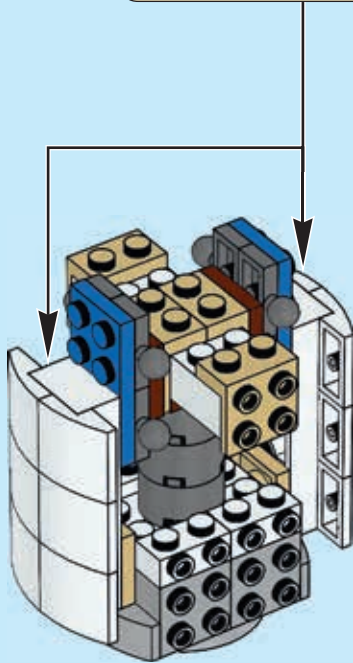
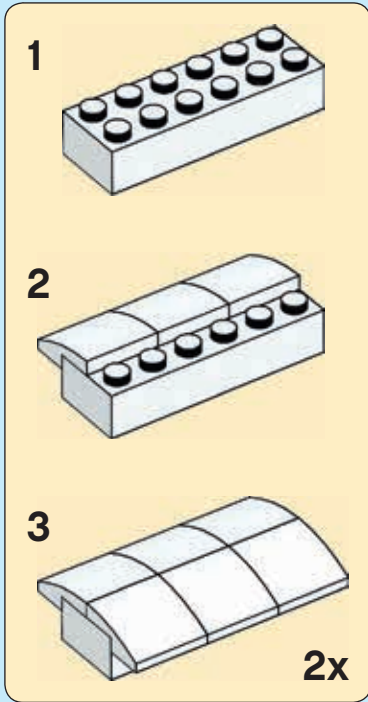
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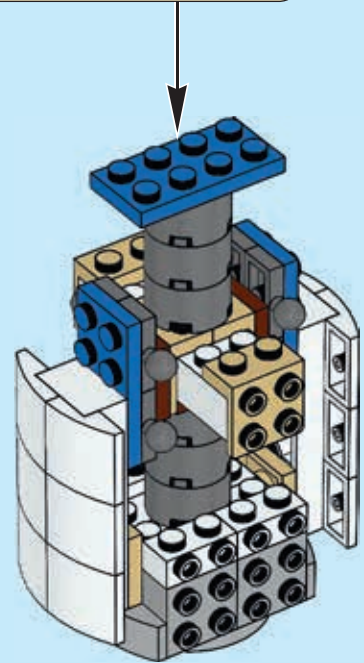
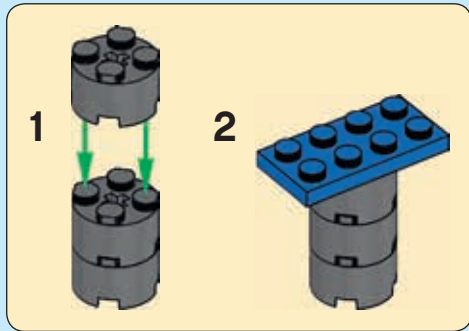




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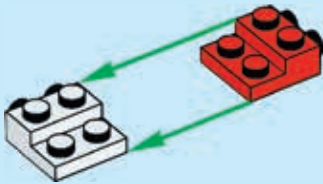


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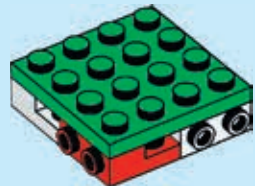
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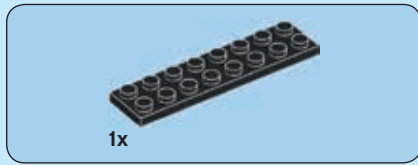
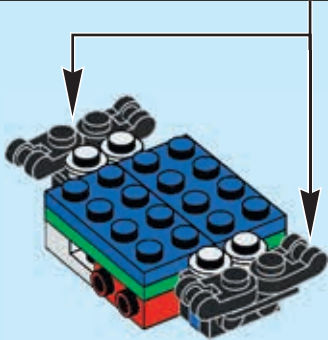
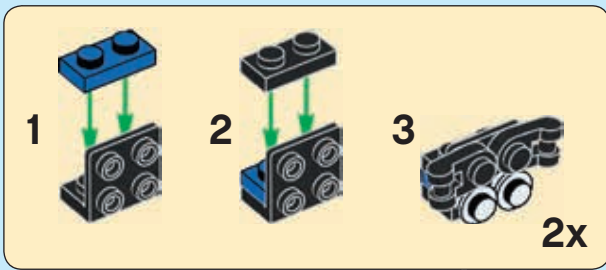




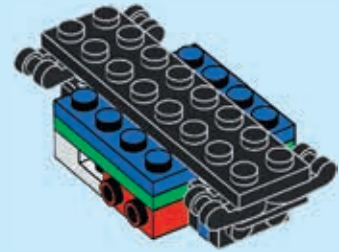
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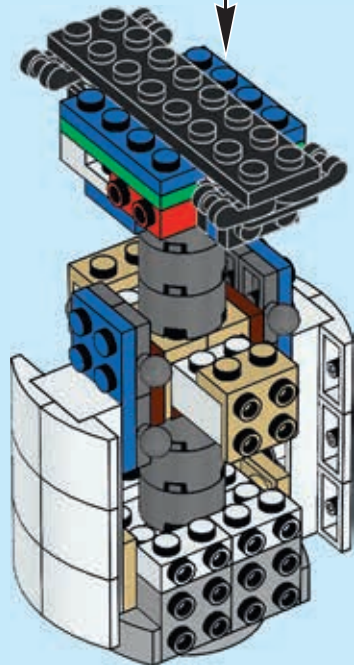
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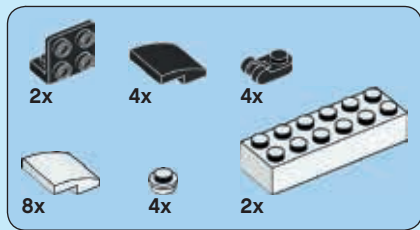


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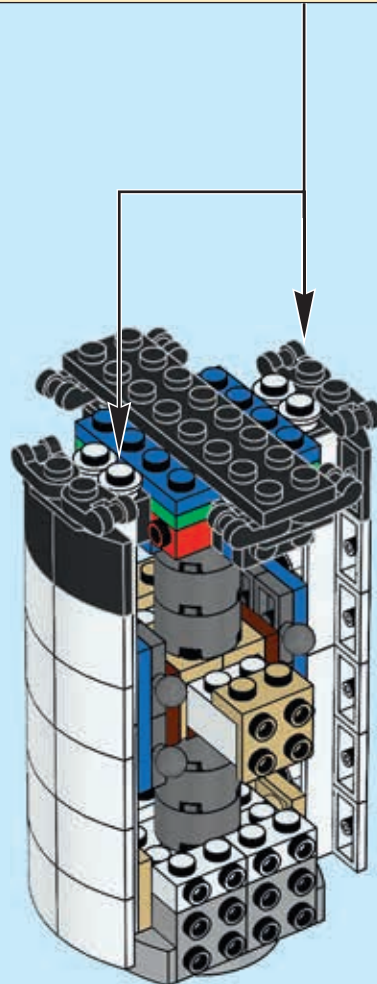
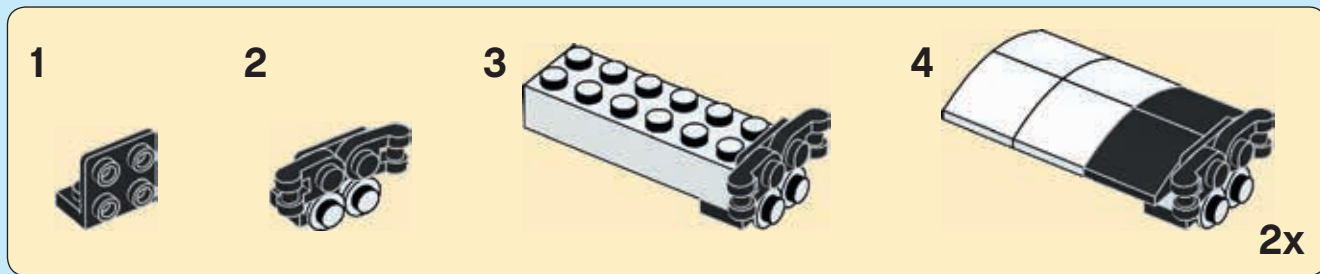


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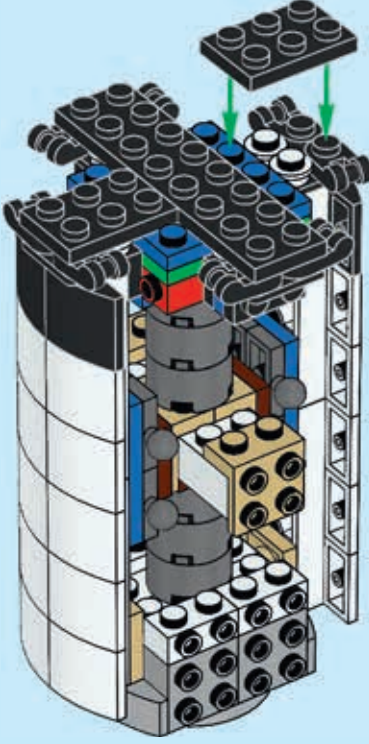
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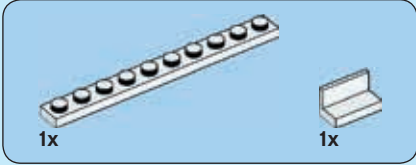




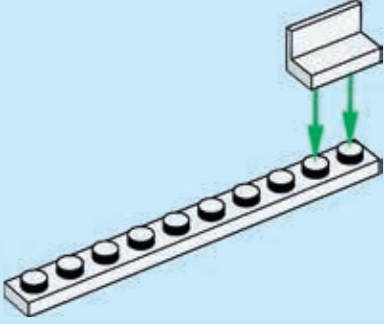
263



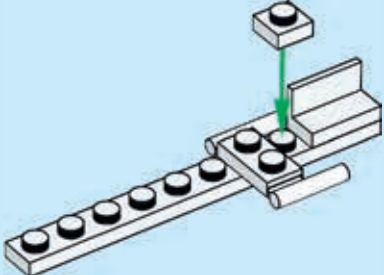




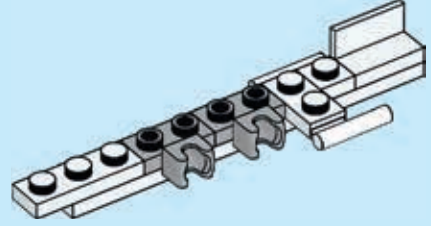
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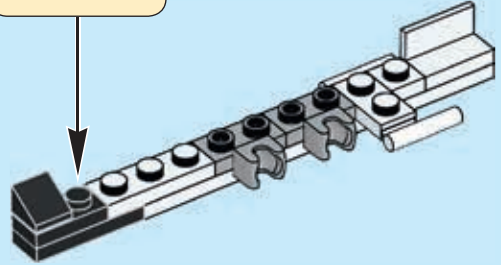
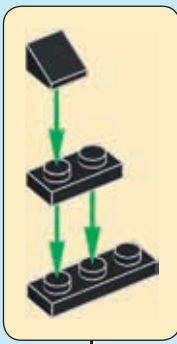
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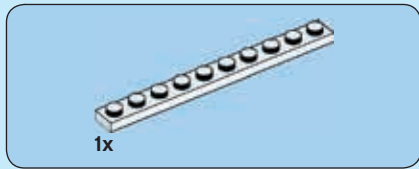


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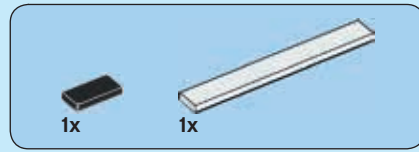
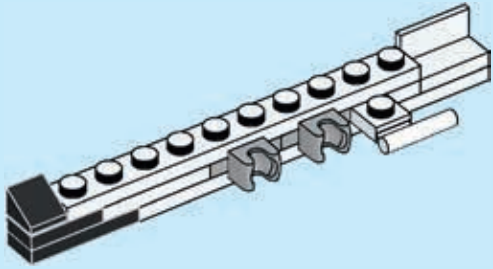


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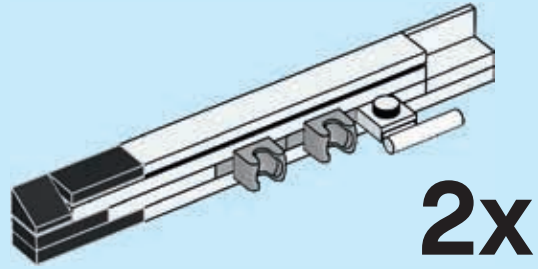




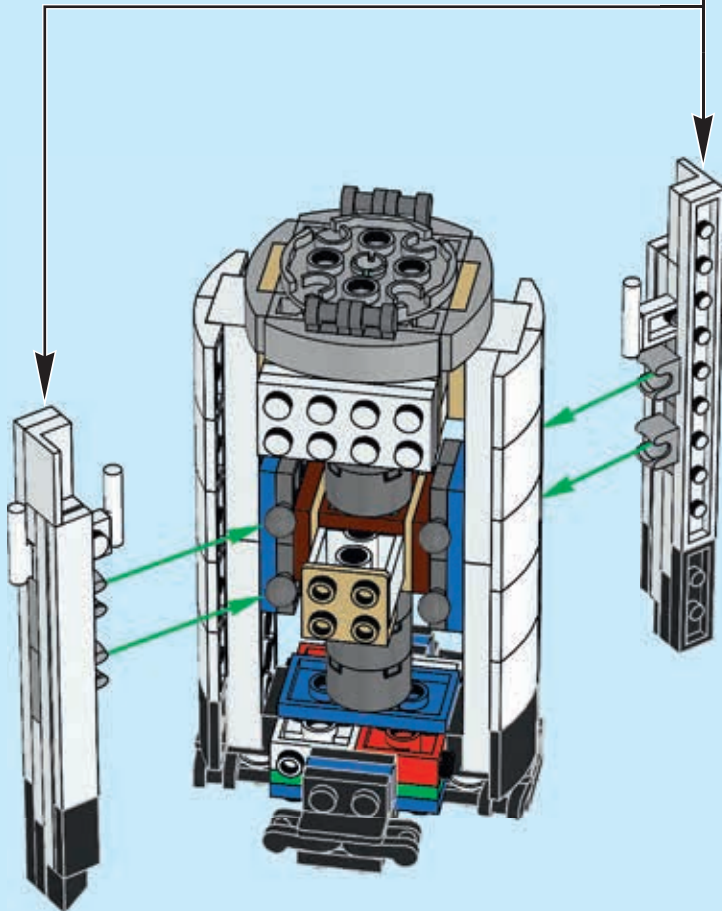
269



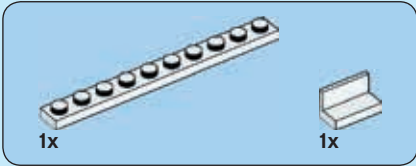
270



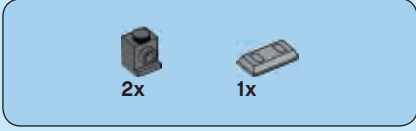
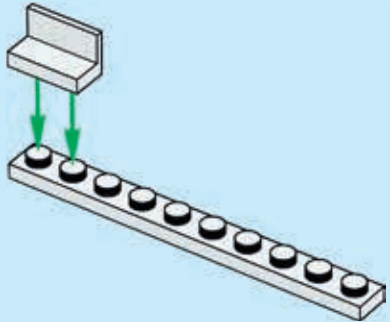
271



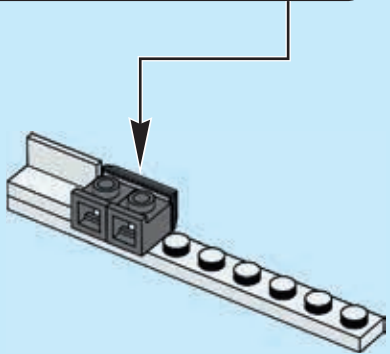
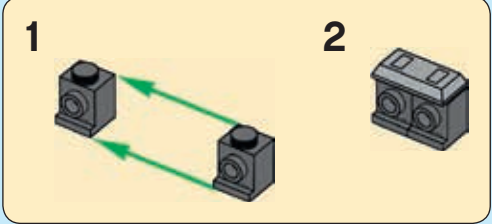




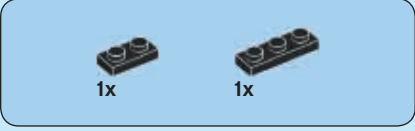
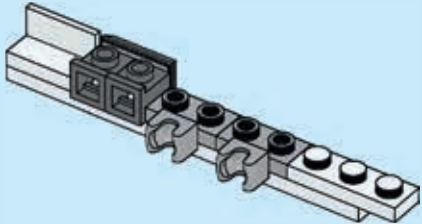
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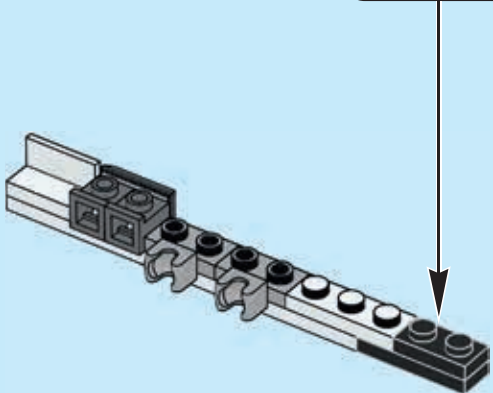
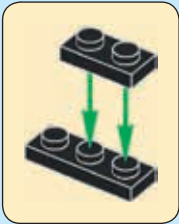
# 273



# 274

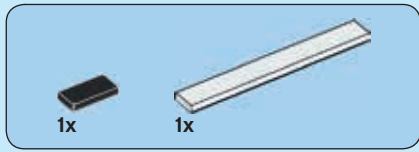
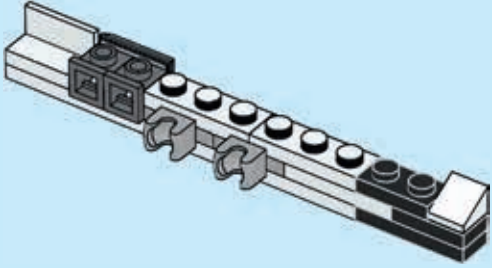


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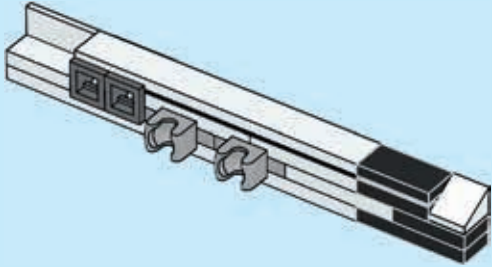




276

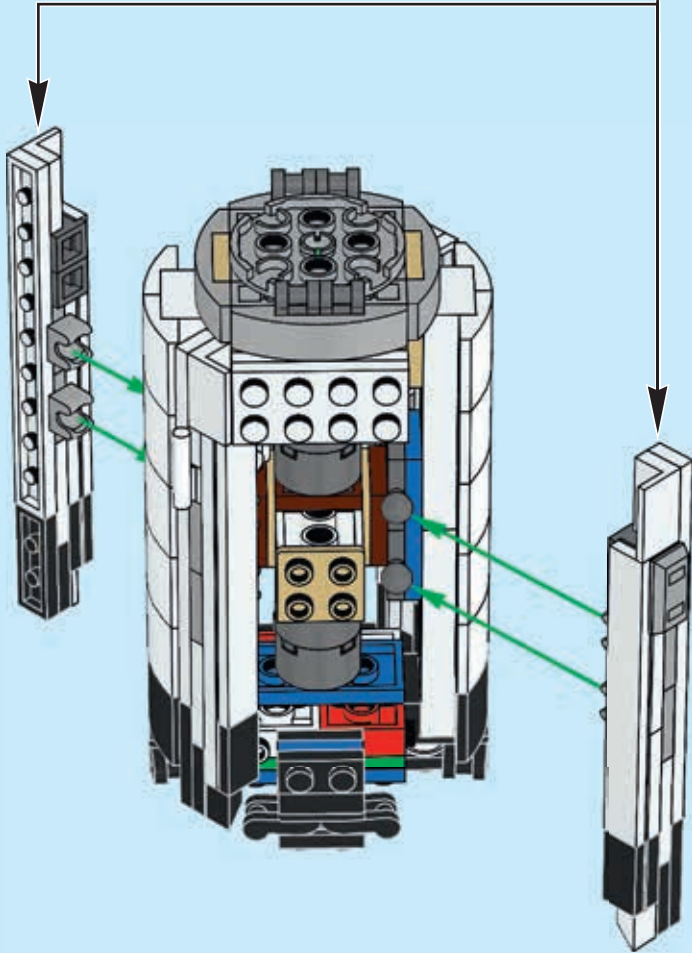


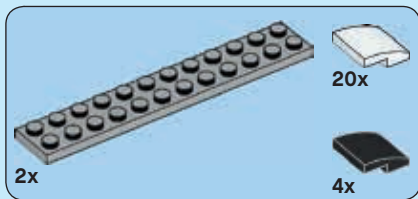
277



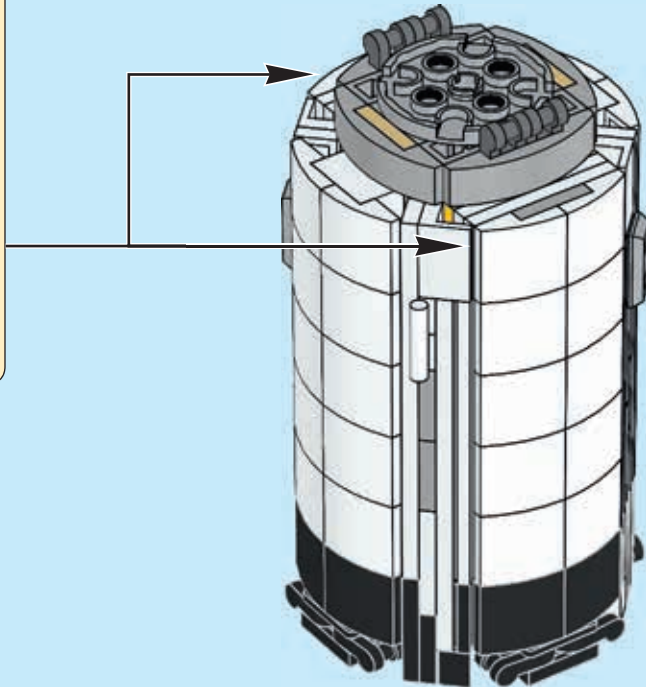
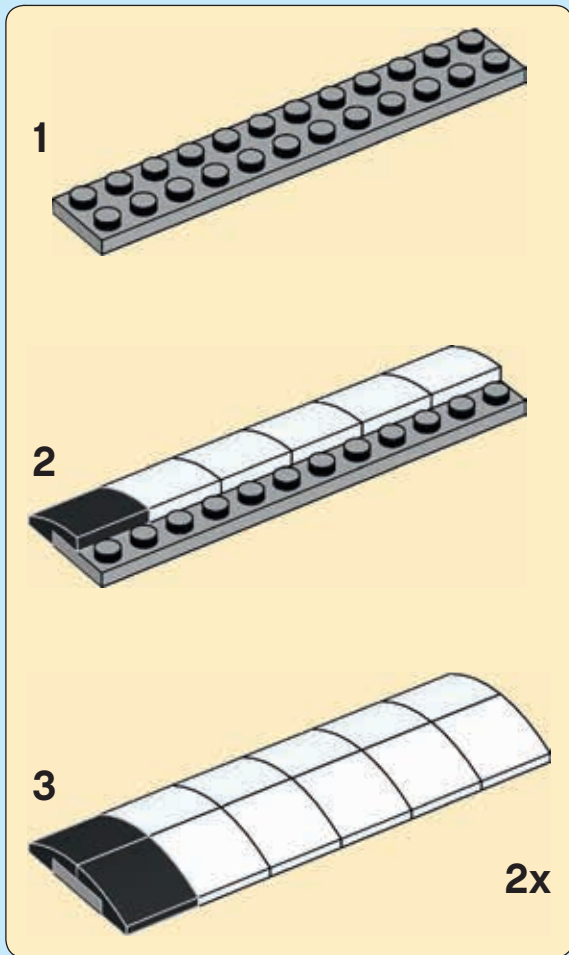
2x

278



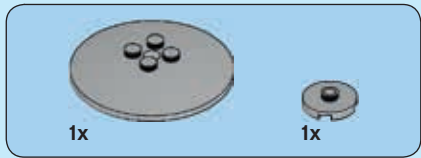
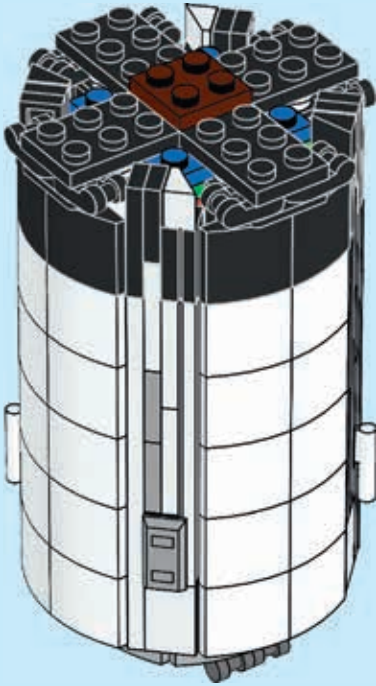
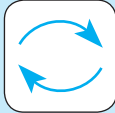


279

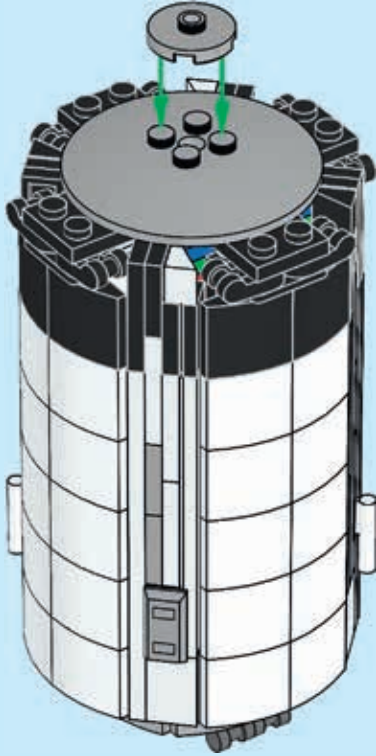




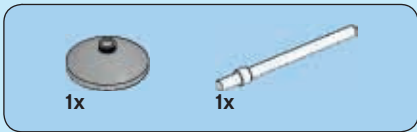
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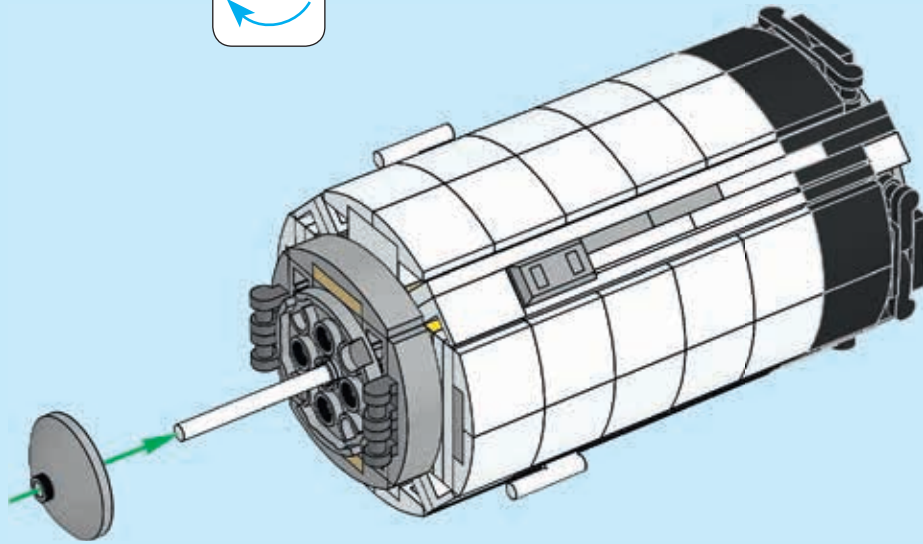
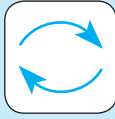
281



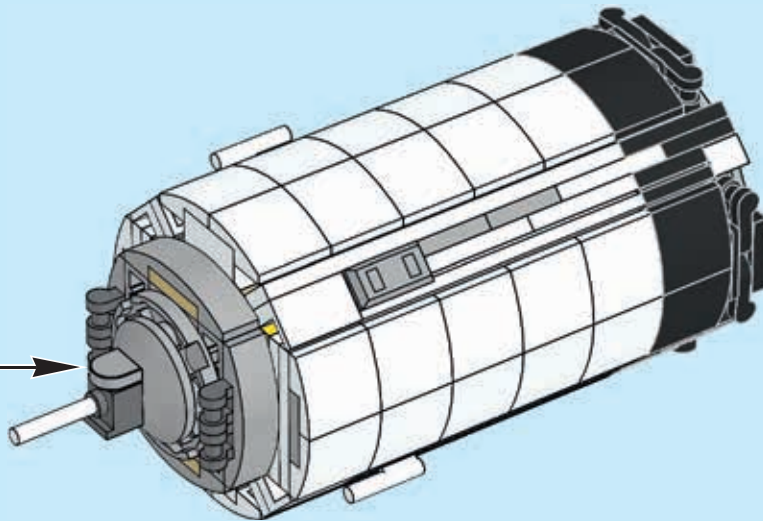
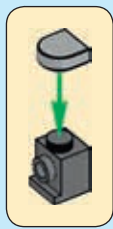




**282**



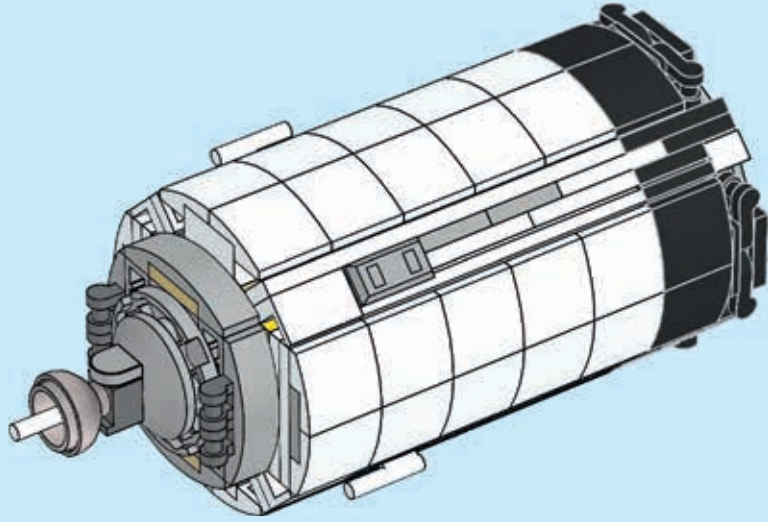
**283**





1x

284

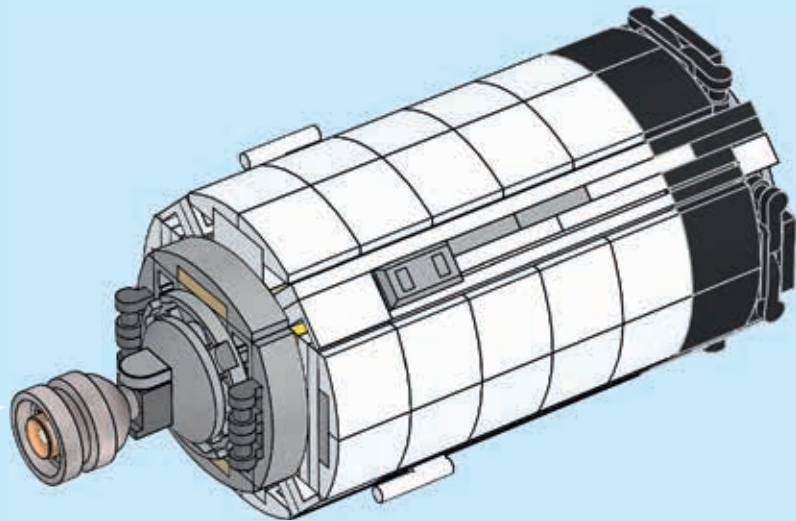


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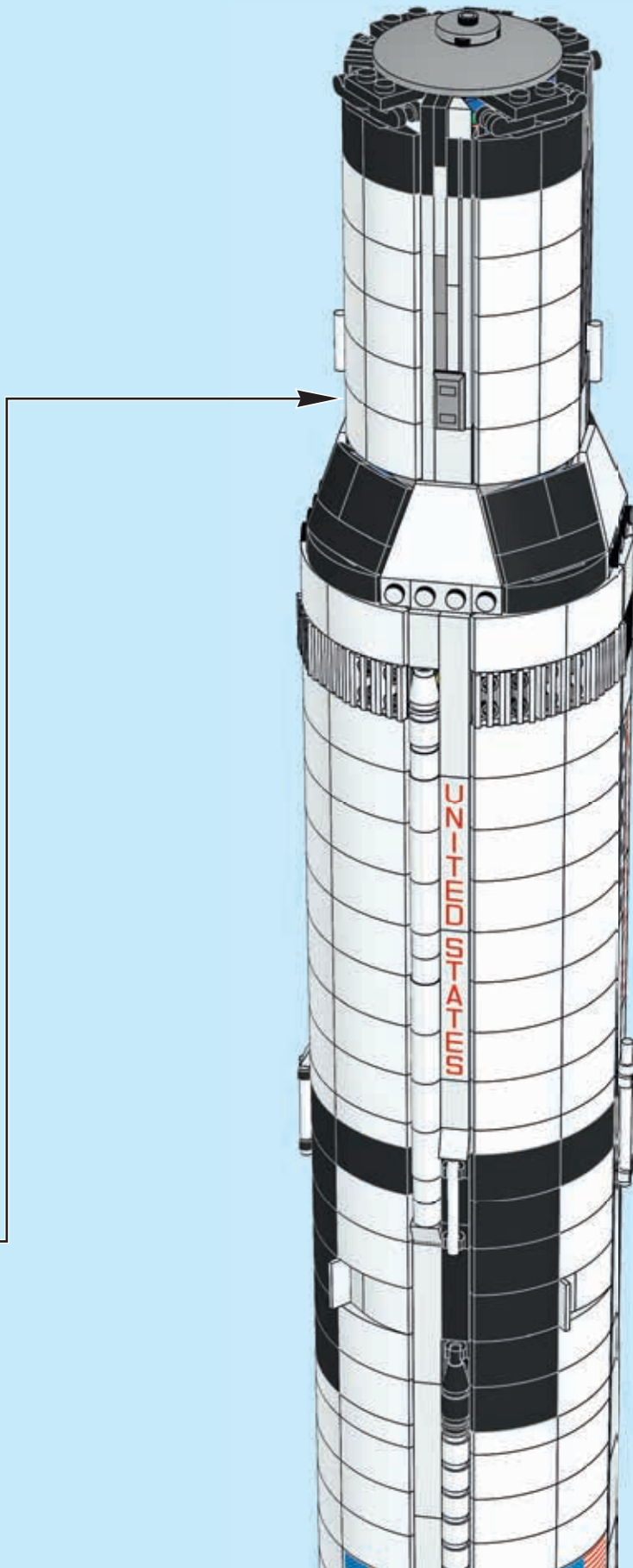


1x

285



286

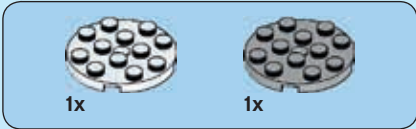
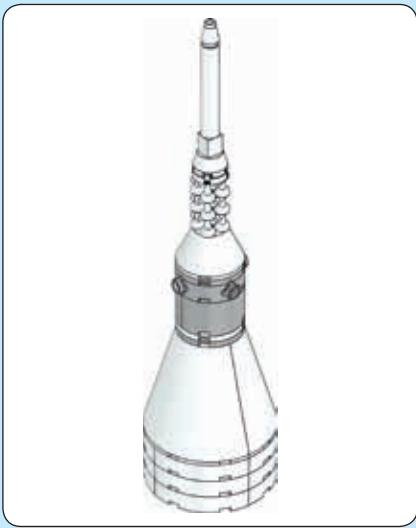




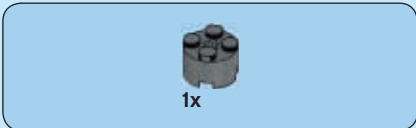
12



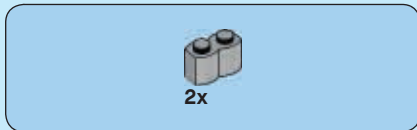
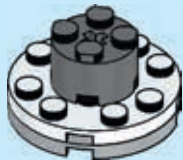




**287**



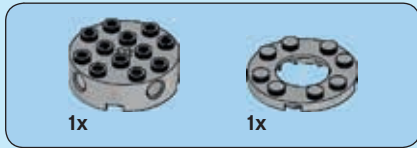
**288**



**289**



**290**

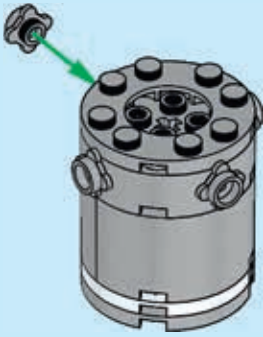


**291**



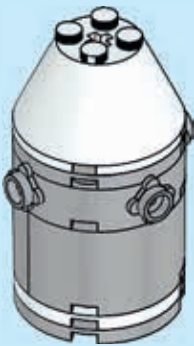
4x

292



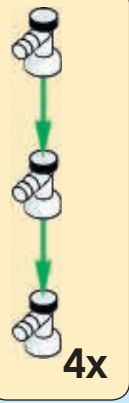
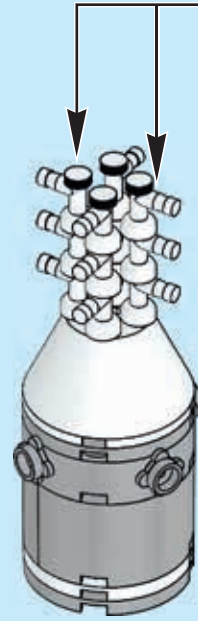
1x

293



12x

294

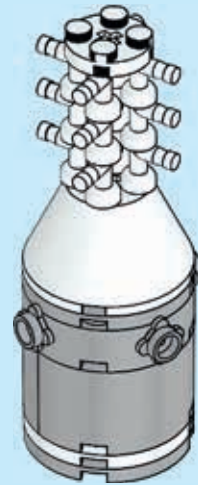


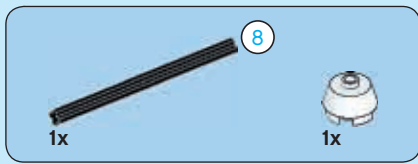
4x



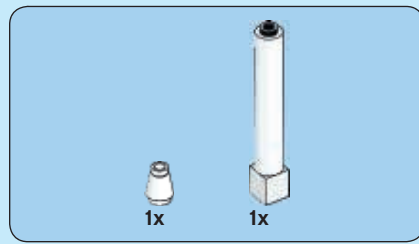
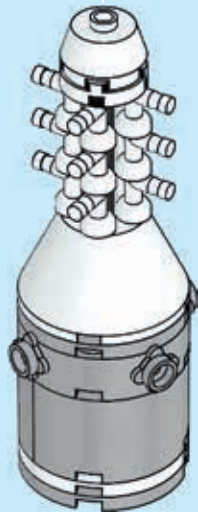
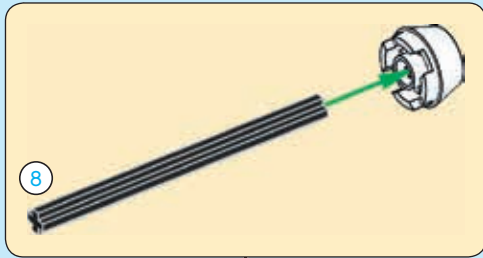
1x

295

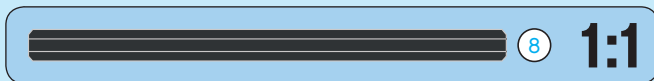
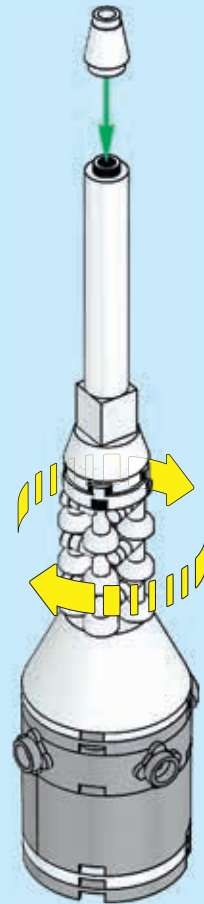


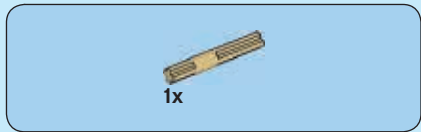


296

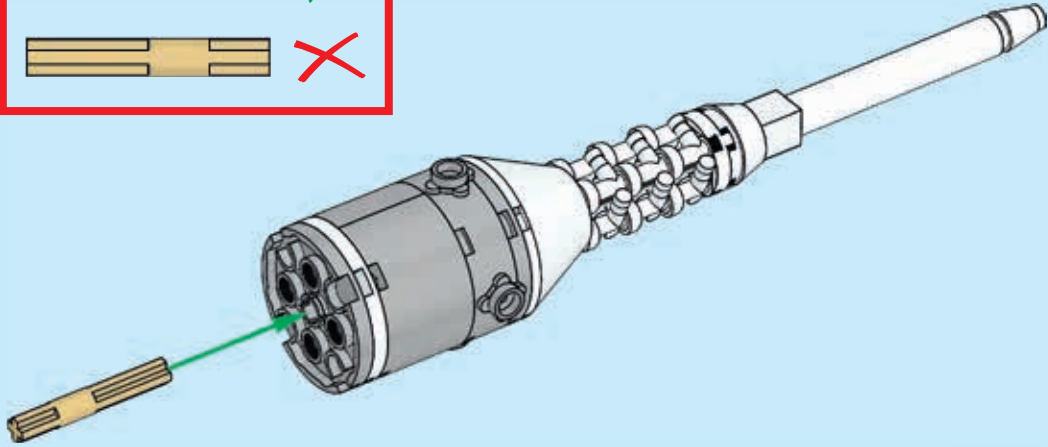
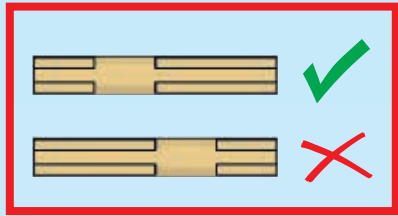
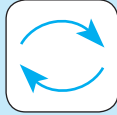


297

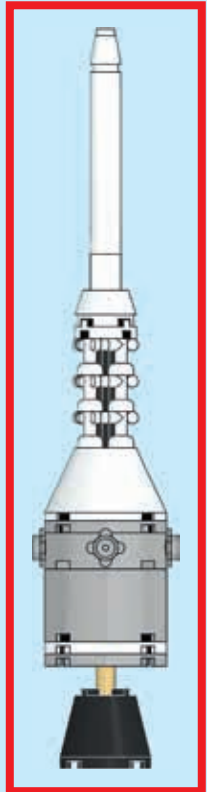
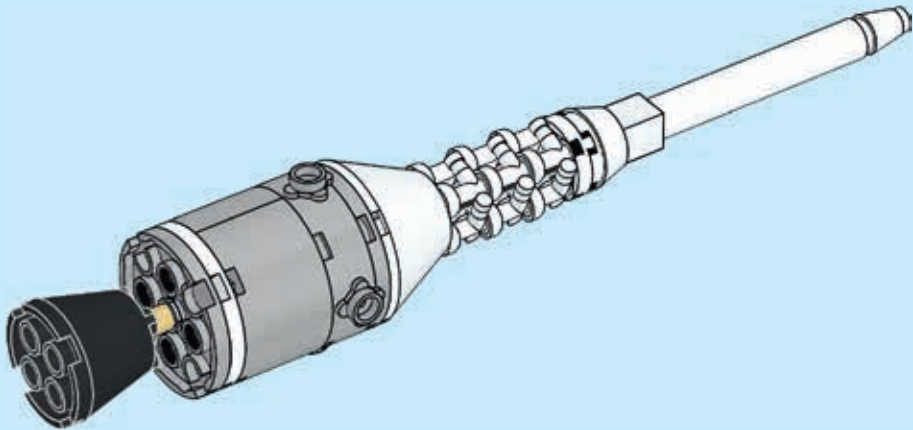




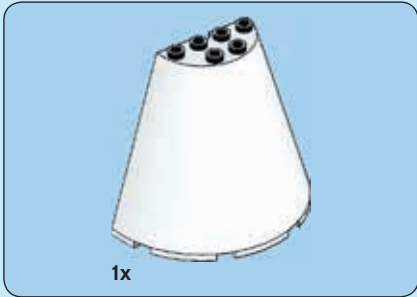
298



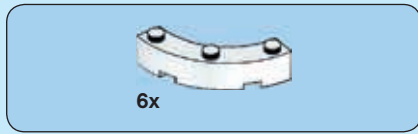
299



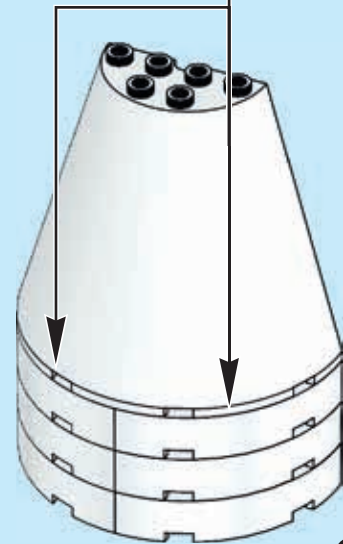
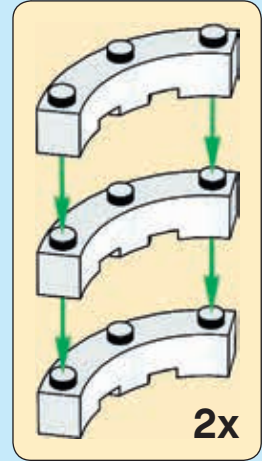




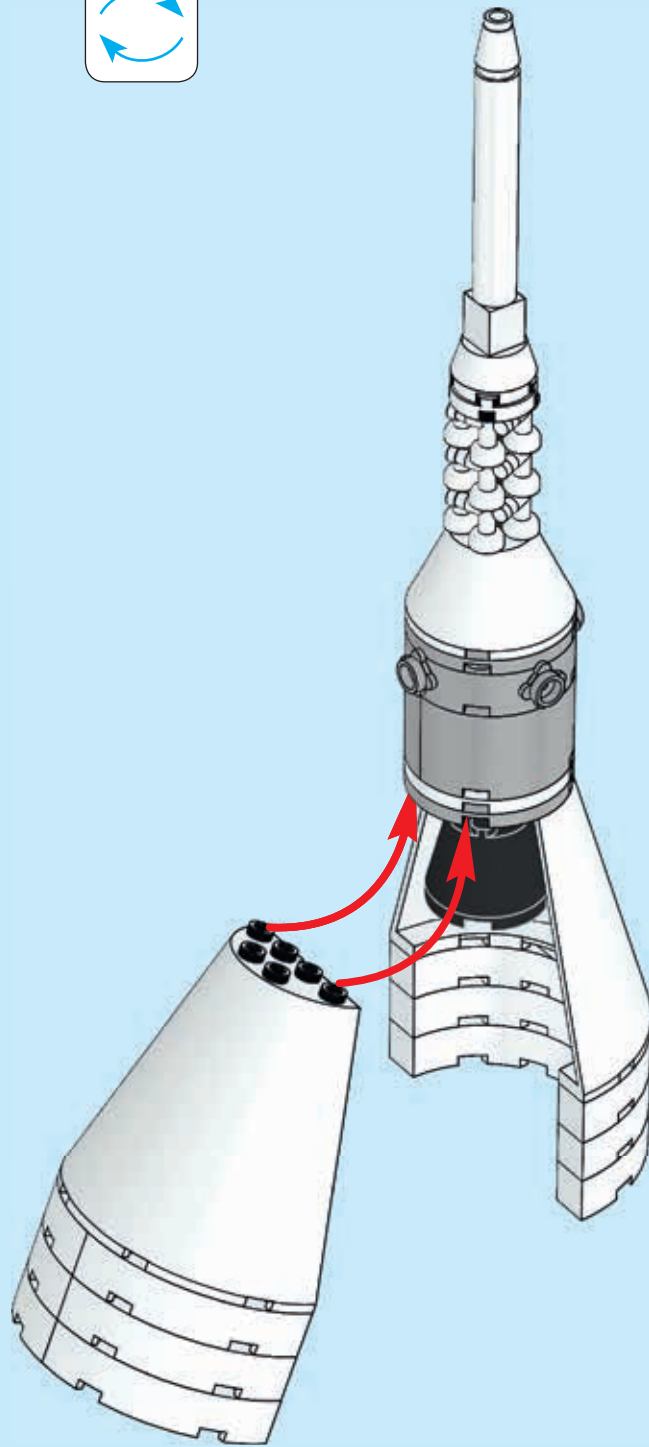
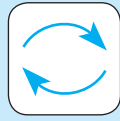
**300**



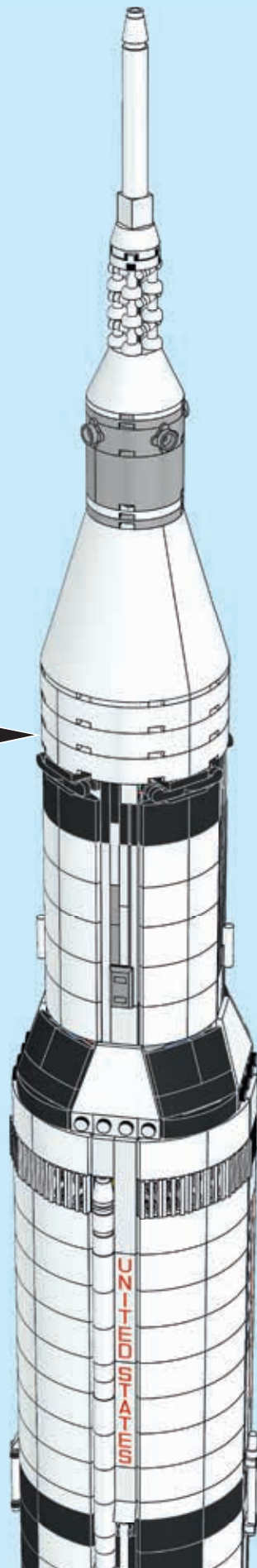
**301**

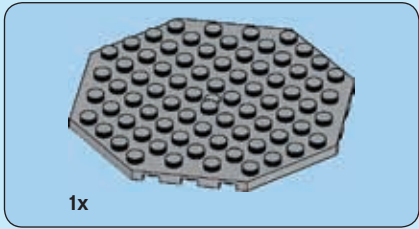
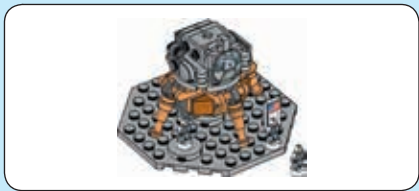


302

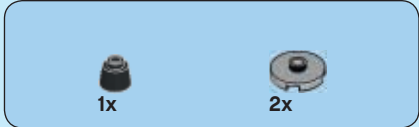
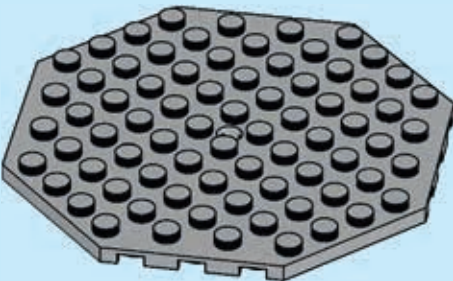


303

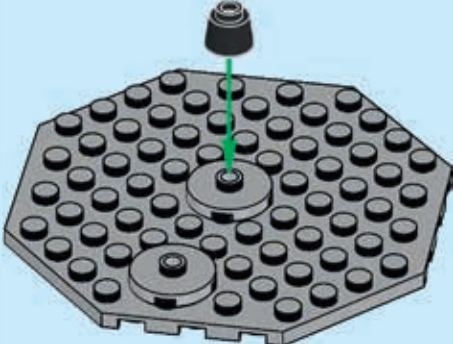




**304**



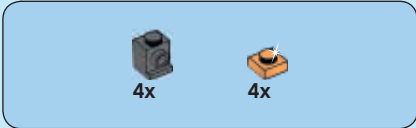
**305**



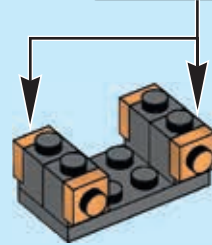
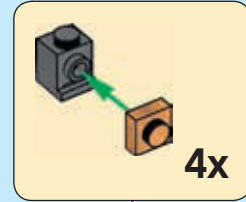




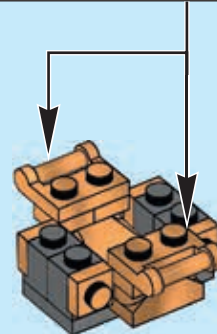
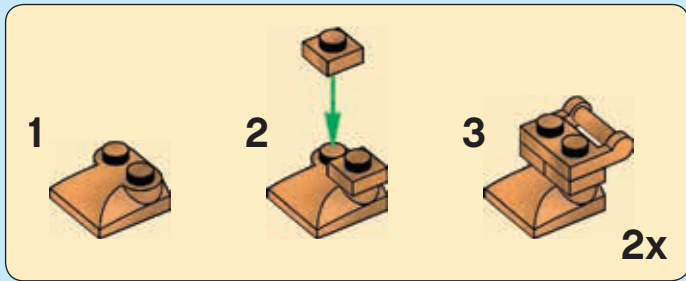
306



307



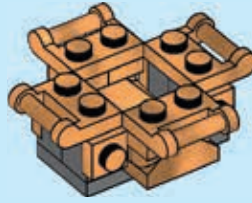
308





2x

# 309

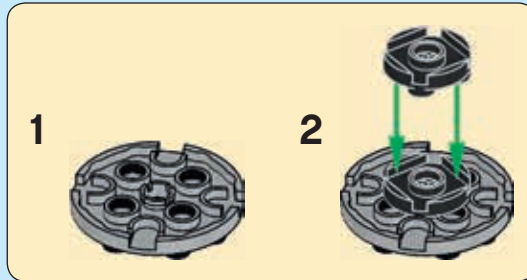


2x



1x

# 310



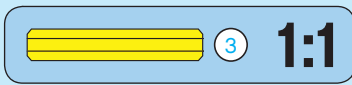
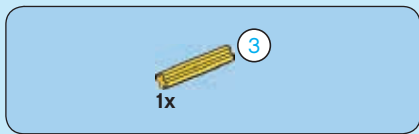
4x

# 311

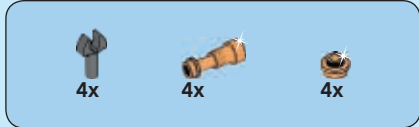


4x

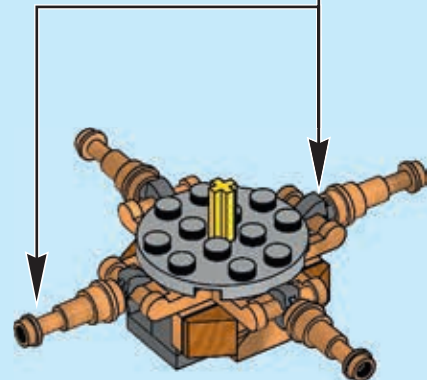
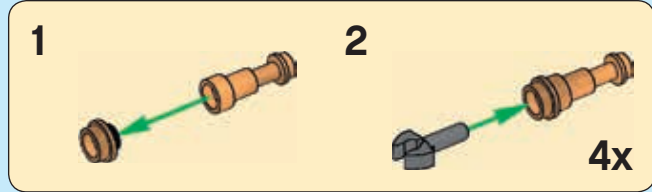




312

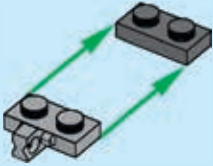


313

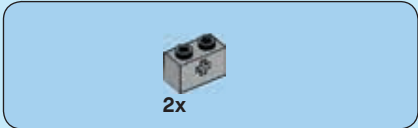
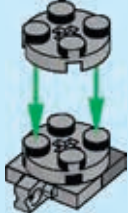




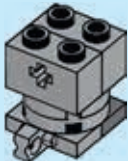
314



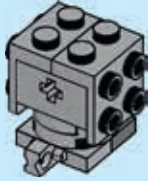
315



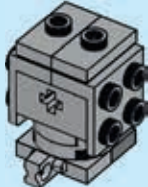
316



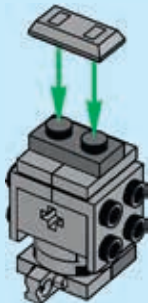
317



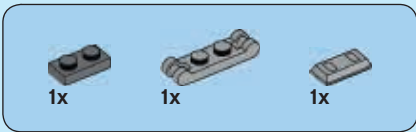
318



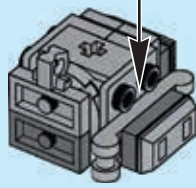
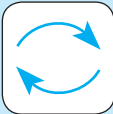
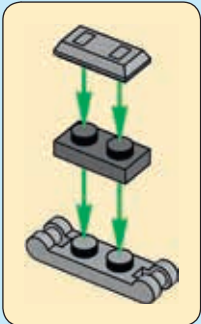
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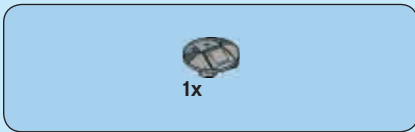
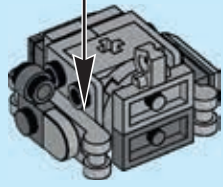
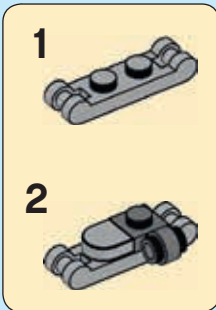




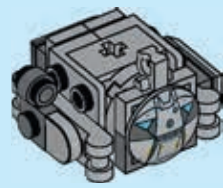
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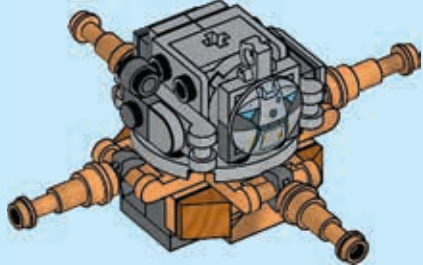
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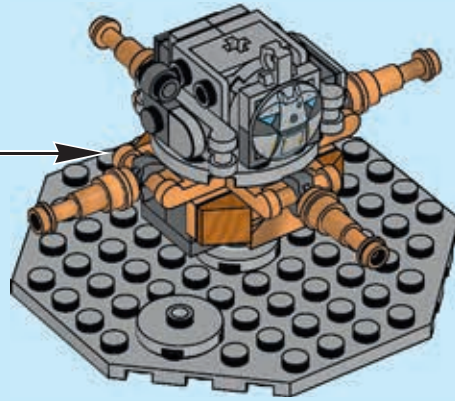
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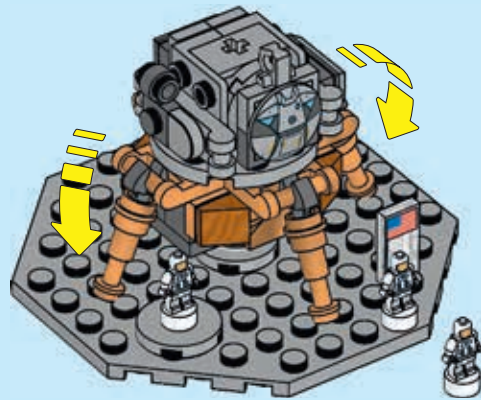


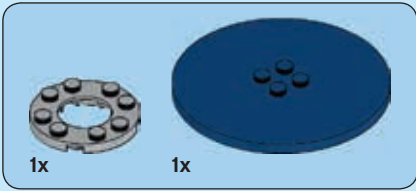
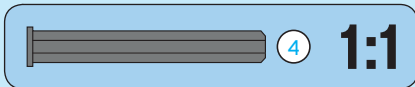
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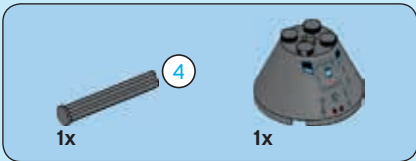
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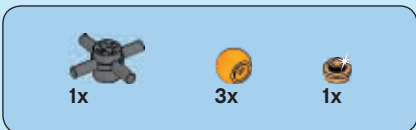
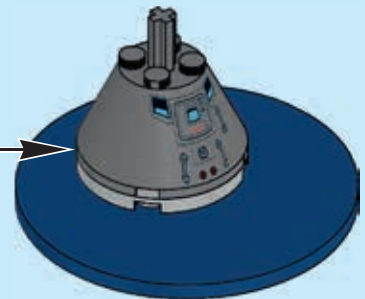
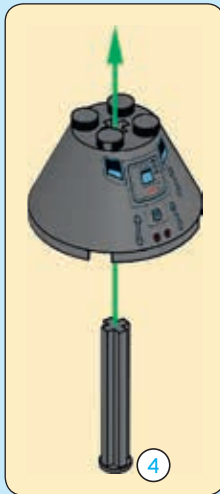




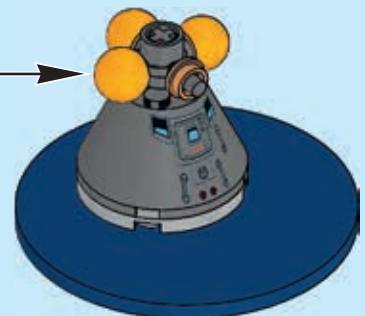
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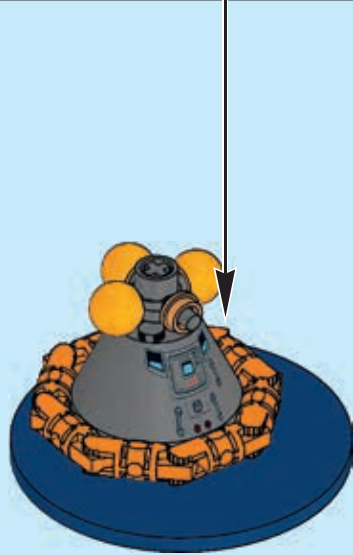
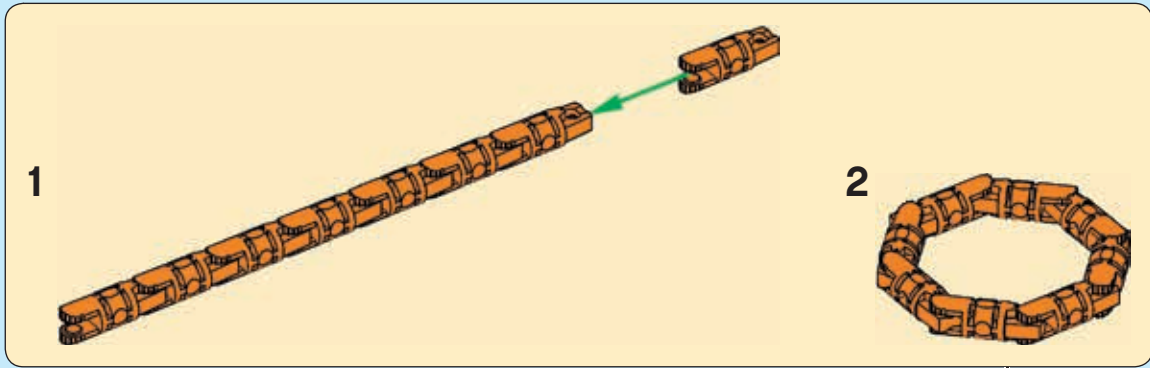
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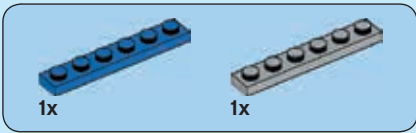
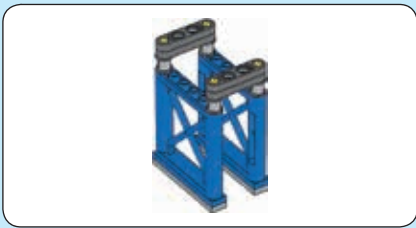


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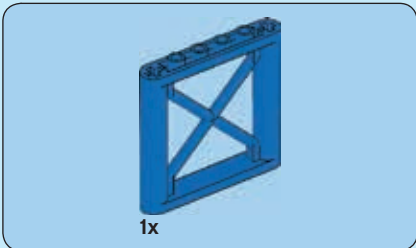
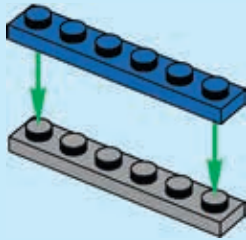
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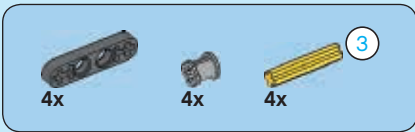




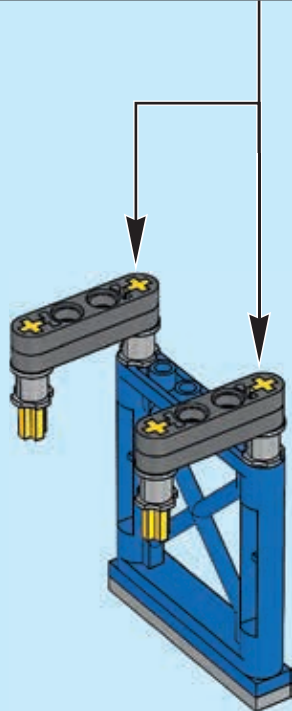
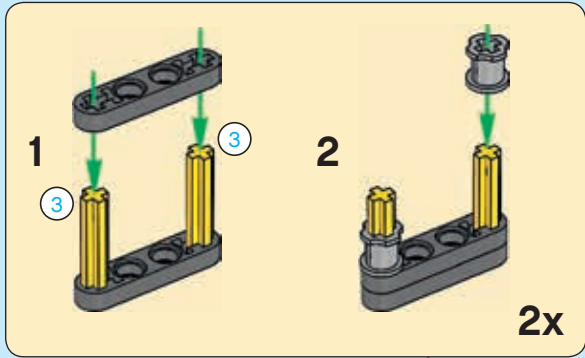
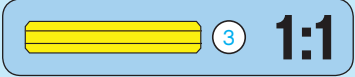
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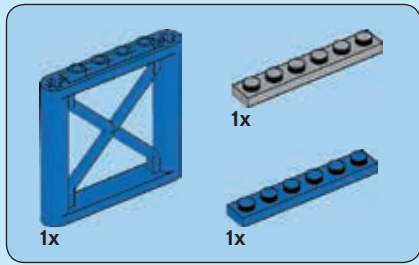


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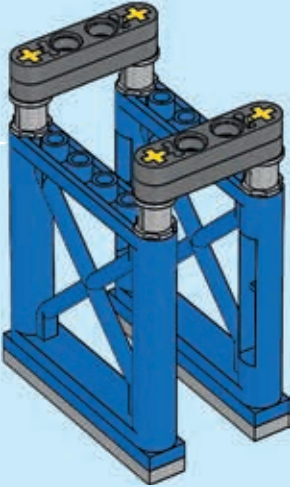
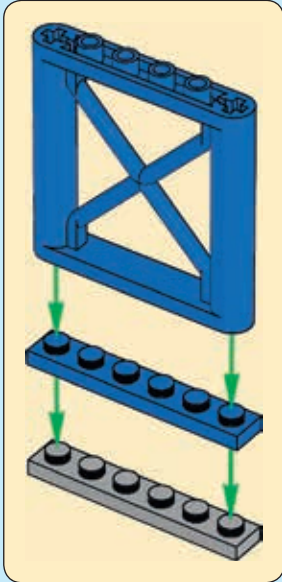


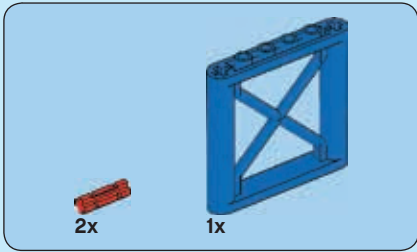
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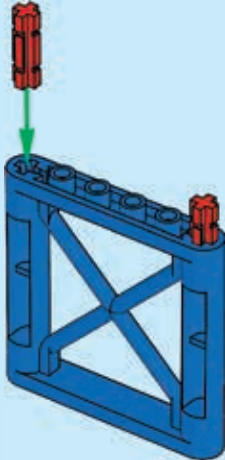


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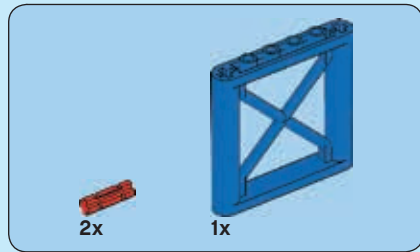
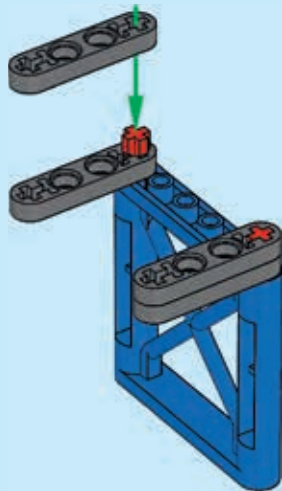




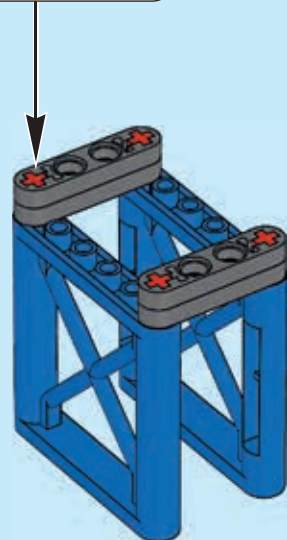
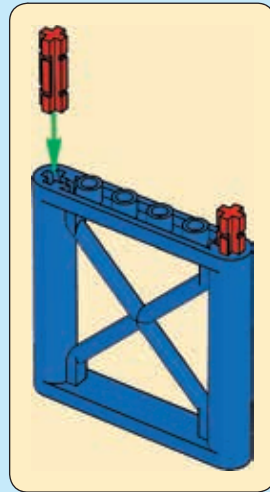
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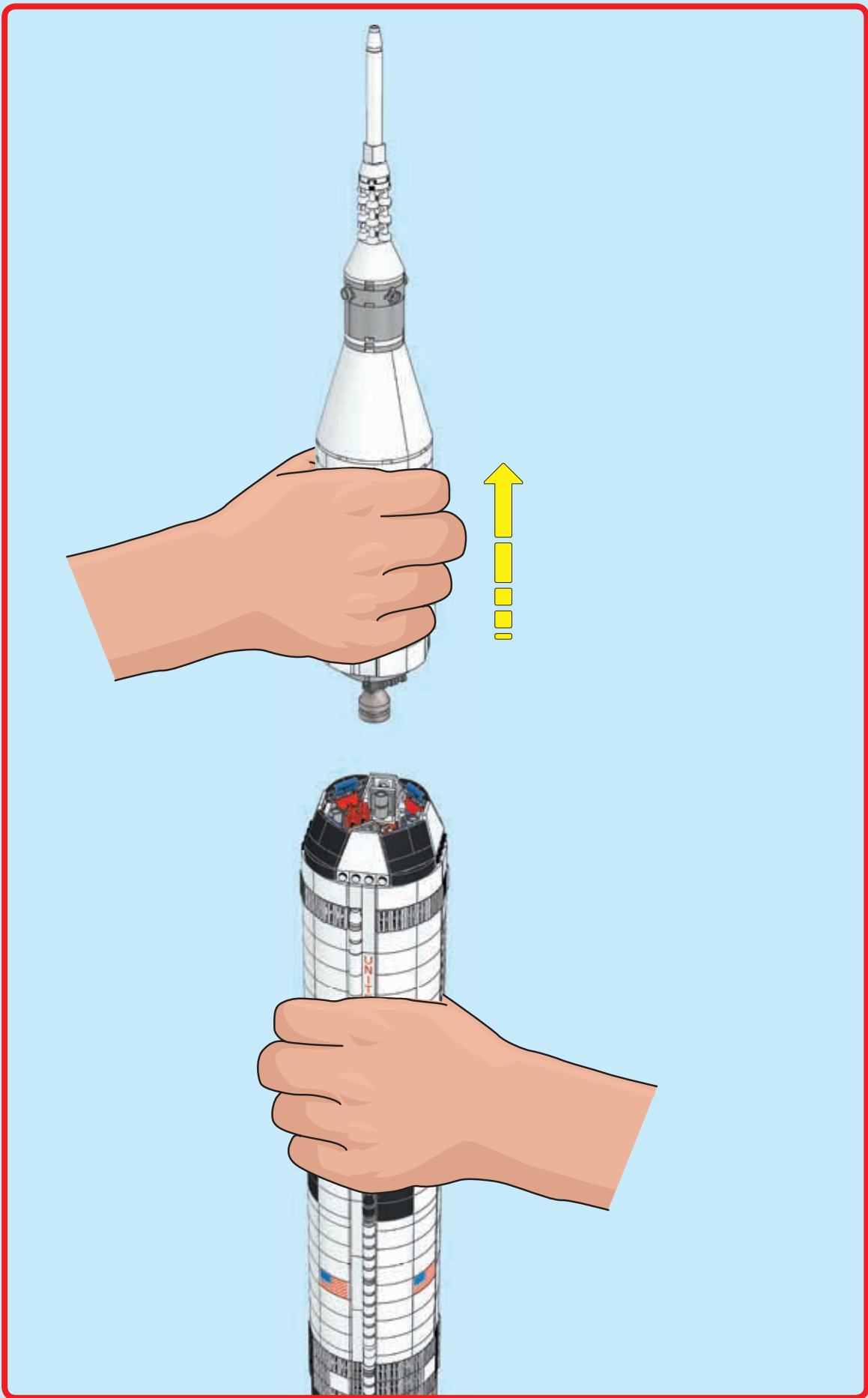


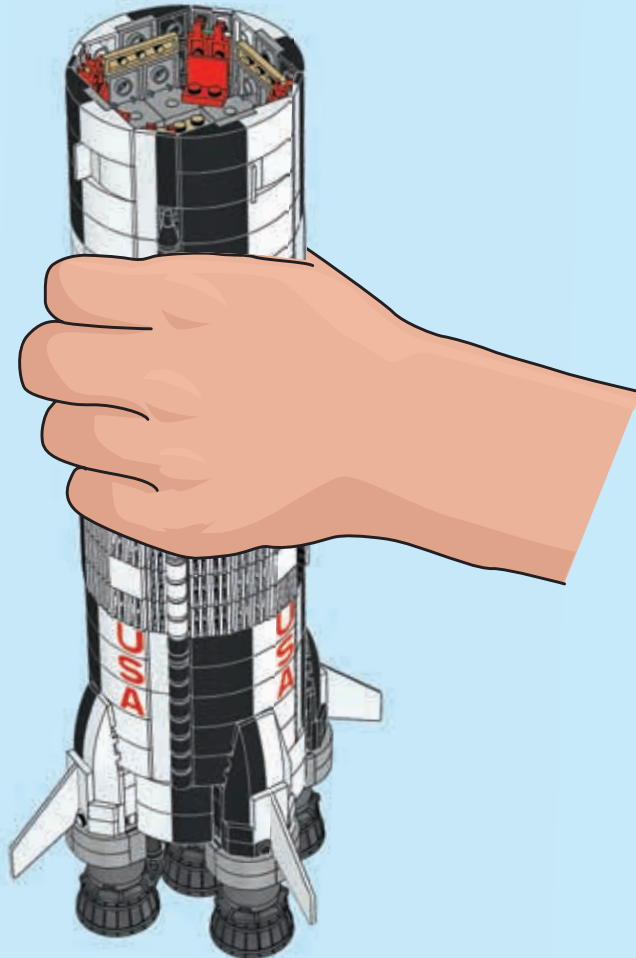
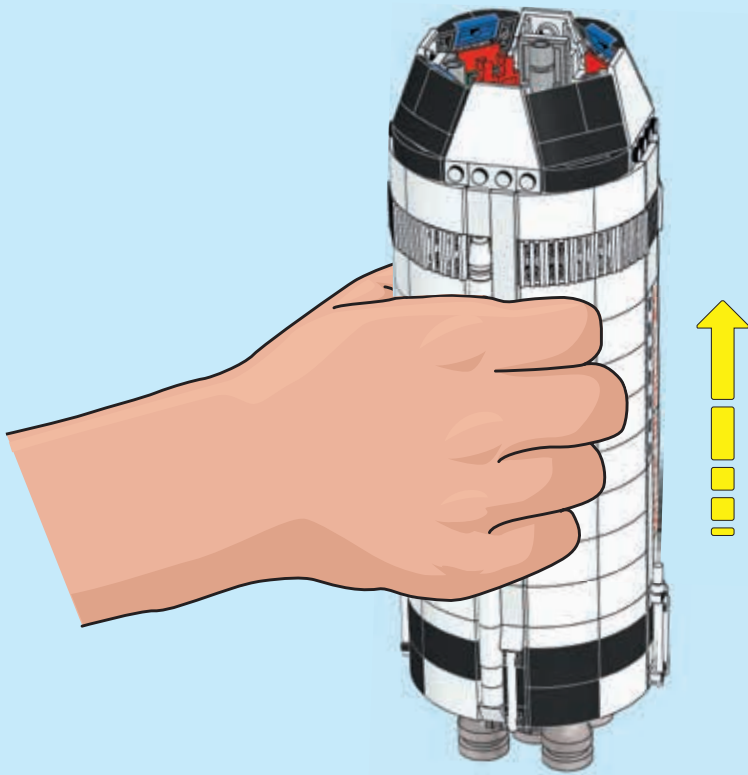
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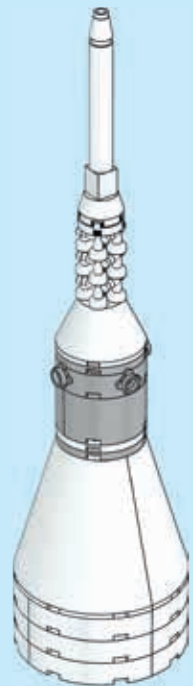
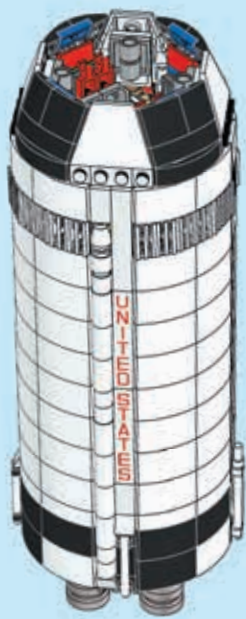
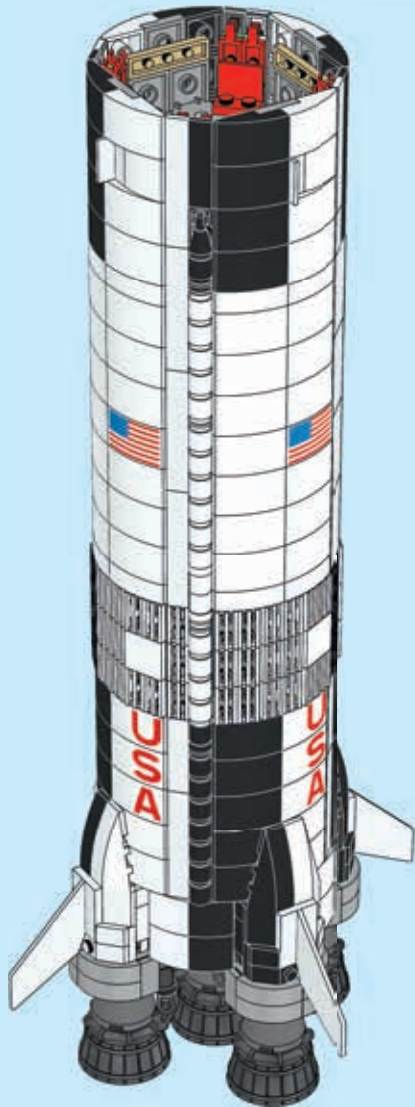
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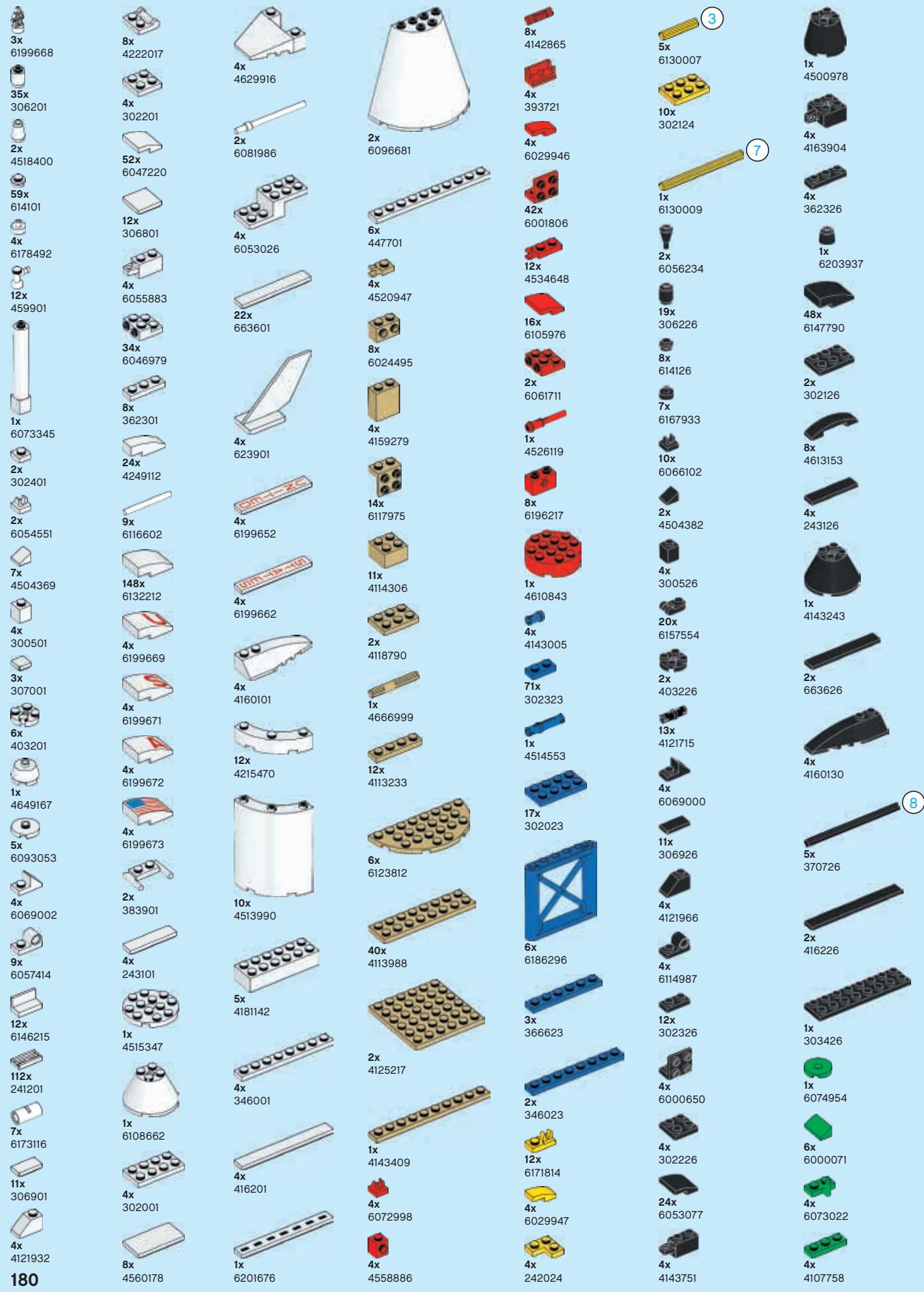












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4



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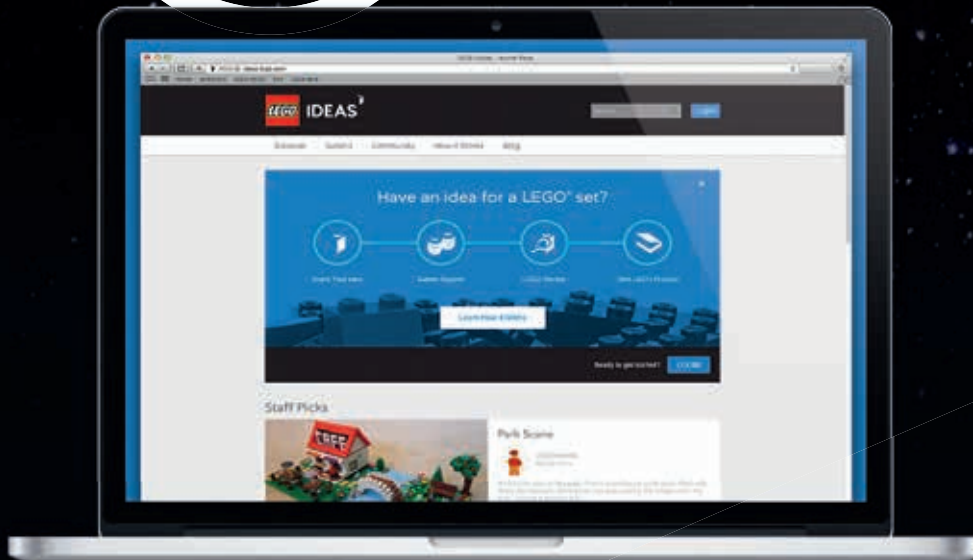
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